MAD MAY 2013

PROJECT ID: 1206-00-72/07-77/81/83
WITH: N/A

COUNTY: DANE

ORDER OF SHEETS

Section No.1 Title
Section No.2 Typical Sections and Details (Includes Erosion Control Plans)
Section No.3 Estimate of Quantities
Section No.3 Miscellaneous Quantities
Section No.4 Right of Way Plat
Section No.5 Plan and Profile
Section No.6 Standard Detail Drawings
Section No.7 Sign Plates
Section No.8 Structure Plans
Section No.9 Computer Earthwork Data
Section No.9 Cross Sections

TOTAL SHEETS = 1538

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SOUTH MADISON BELTLINE
SEMINOLE HIGHWAY BRIDGE B-13-0664
USH 12
DANE COUNTY

STATE PROJECT NUMBER
1206-00-72

MOUNT HOREB - MADISON
RAYMOND ROAD TO SEMINOLE HWY, PHASE I
VERONA ROAD, PHASE I
CTH PD PEDESTRIAN BRIDGE B-13-0666
USH 18
DANE COUNTY

STATE PROJECT NUMBER
1206-07-77/81/83

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1206-00-72	———	—
1206-07-77	———	—
1206-07-81	———	—
1206-07-83	———	—

ACCEPTED FOR DANE COUNTY
DATE: 1/17/13 HIGHWAY COMMISSIONER

ACCEPTED FOR THE CITY OF FITCHBURG
DATE: 1/22/13 Paul J. Woodard PRINCIPAL ENGINEER

ACCEPTED FOR THE CITY OF MADISON
DATE: By Municipal Agreement PRINCIPAL ENGINEER

ORIGINAL PLANS PREPARED BY:

STRAND ASSOCIATES®
910 West Wingra Drive
Madison, WI 53715
608 251-4843
608 251-8655 FAX
www.strand.com

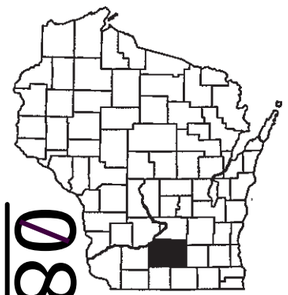
WISCONSIN
JOSEPH M. BUNKER
E-34979
MADISON
WI
PROFESSIONAL ENGINEER
Joseph M. Bunker
1/31/13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
Surveyor: STRAND ASSOCIATES, INC./ KL ENGINEERING, INC.
Designer: STRAND ASSOCIATES, INC.
Project Manager: MARK VESPERMAN
Regional Examiner:
Regional Supervisor:
C.O. Examiner:

APPROVED FOR THE DEPARTMENT
DATE: 1/15/13 (Signature)

E



N

DESIGN DESIGNATION

- A.A.D.T.
- A.A.D.T.
- D.H.V.
- D.D.
- T.
- DESIGN SPEED
- ESALS

— REFER TO GENERAL NOTES PLAN SHEET FOR DESIGN DESIGNATION INFORMATION

CONVENTIONAL SYMBOLS

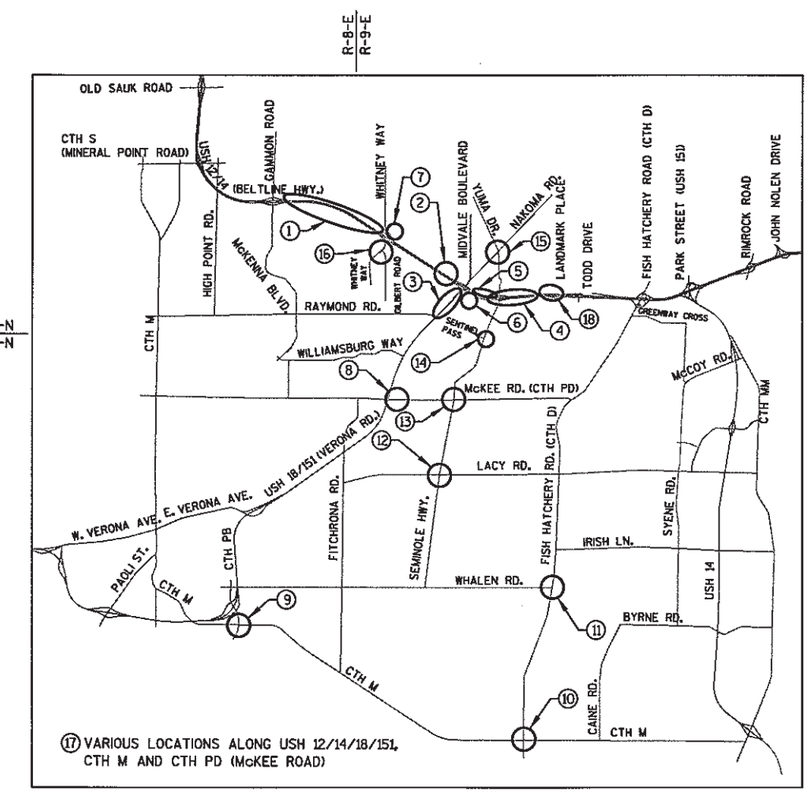
PLAN
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- OVERHEAD ELECTRIC (OH)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE

ROADWAY IMPROVEMENT LOCATIONS

1. USH 12/14 THIRD LANE - WHITNEY WAY TO GAMMON ROAD, WESTBOUND ON RAMP (L LINE), WHITNEY WAY BIKE PATH (WP LINE), AND SIGN STRUCTURES (S-13-384, S-13-394, S-13-395)
2. STORM SEWER CROSSING OF USH 12/14 AND DETENTION BASIN B
3. VERONA ROAD OVERLAY/WIDENING (VR LINE), TRUNK LINE STORM SEWER, DETENTION BASIN A, FREEPORT ROAD, AND RETAINING WALLS (R-13-204, R-13-1000-TW1, R-13-1000-TW2, R-13-1000-TW3, R-13-1000-TW4)
4. SEMINOLE HIGHWAY BRIDGE AND APPROACHES (B-13-664), RETAINING WALLS (R-13-235 AND R-13-236), EASTBOUND ON RAMP (S LINE), FRONTAGE ROAD (SF LINE), AND USH 12/14/18/151 AUXILLARY LANE
5. WARWICK WAY (WW LINE) AND NOISE WALL (N-13-0002)
6. NOISE WALL (N-13-0003)
7. NOISE WALL (N-13-0004)
8. MILITARY RIDGE PATH OVERPASS (B-13-666) AND RETAINING WALLS (R-13-242 AND R-13-243)
9. CTH PB AND CTH M INTERSECTION
10. CTH M AND CTH D (FISH HATCHERY ROAD) INTERSECTION
11. CTH D (FISH HATCHERY ROAD) AND WHALEN ROAD INTERSECTION
12. SEMINOLE HIGHWAY AND LACY ROAD INTERSECTION
13. SEMINOLE HIGHWAY AND CTH PD (McKEE ROAD) INTERSECTION
14. SEMINOLE HIGHWAY AND SENTINEL PASS INTERSECTION
15. SEMINOLE HIGHWAY/YUMA DRIVE AND NAKOMA ROAD INTERSECTION
16. WHITNEY WAY AND GILBERT ROAD INTERSECTION
17. ITS (S-13-188, S-13-383, S-13-406, S-13-407)
18. USH 12/14/18/151 STORMWATER IMPROVEMENTS, SAND AND TRASH COLLECTOR, AND RETAINING WALLS (R-13-244, R-13-245)



17 VARIOUS LOCATIONS ALONG USH 12/14/18/151, CTH M AND CTH PD (McKEE ROAD)

LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.000 MI. (INTERSECTION AND SPOT IMPROVEMENT PROJECTS)

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY, NAD 83 (2007) ADJUSTMENT.

GENERAL NOTES

MISCELLANEOUS

DETAILS OF CONSTRUCTION NOT SHOWN SHALL BE IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FLANGE LINE UNLESS OTHERWISE NOTED.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

SUBSURFACE EXPLORATION REPORTS FOR THE PROPOSED SIGN STRUCTURES, RETAINING WALLS, AND BRIDGES ARE AVAILABLE FOR WISDOT SW REGION BY CONTACTING MARK VESPERMAN AT 608-246-7548. ADDITIONAL GEOTECHNICAL INFORMATION MAY BE AVAILABLE FROM WISDOT FOR THE EXISTING STRUCTURES WITHIN THE PROJECT AREA. PLEASE CONTACT MARK VESPERMAN OR LAURA SHADEWALD AT 608-267-9592.

WHEN THE QUANTITY OF ITEMS OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON, THE THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATION AND WIDTH OF DRIVEWAYS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

STATIONING, DISTANCES AND OFFSETS FOR PROPOSED SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE COORDINATED IN THE FIELD WITH THE ENGINEER.

SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED IN ACCORDANCE WITH SUBSECTION 643.3.8.2 OF THE STANDARD SPECIFICATIONS IN LIEU OF COVERING WOOD POST MOUNTED SIGNS, THE CONTRACTOR MAY CHOOSE TO REMOVE AND REINSTALL THEM.

COORDINATES AND BEARINGS ON THE PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY ZONE, NAD 83 (2007) ADJUSTMENT. THE ELEVATIONS ARE NAVD88.

REMOVALS

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

REMOVAL ITEMS SHALL BE REMOVED TO AN EXISTING JOINT, SAWCUT WHERE SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

REMOVING ASPHALTIC SURFACE SHALL BE PAID AS ITEMIZED IN THE MISCELLANEOUS QUANTITIES. ALL ASPHALT REMOVAL WITHIN EXCAVATION LIMITS WILL BE CONSIDERED INCLUDED WITH EXCAVATION COMMON.

GRADING/EROSION CONTROL

FILL QUANTITIES HAVE BEEN EXPANDED BY A FACTOR OF 1.30 ON YARDAGE SHEETS. ACTUAL EXPANSION FACTOR MAY VARY.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER IN CONSULTATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES. EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

EROSION CONTROL DETAILS ARE SHOWN ON SEPARATE DETAIL SHEETS.

EXCAVATION BELOW SUBGRADE (EBS) IS ESTIMATED AND MAY VARY AS DIRECTED BY THE ENGINEER.

THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER.

STORM SEWER

STORM SEWER PIPE ELEVATIONS, LENGTH, AND LOCATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS WITH APPROVAL BY THE ENGINEER. BUT MUST BE COMPATIBLE WITH FUTURE STORM SEWER WORK BY OTHERS.

ALL NECESSARY TEMPORARY SHORING FOR STORM SEWER PIPE AND STORM SEWER STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE OR STRUCTURE AND WILL NOT BE PAID FOR SEPARATELY.

EXISTING STORM SEWER SIZES SHOWN ARE APPROXIMATE AND THE CONTRACTOR WILL BASE IT'S BID ON THE ACTUAL FIELD SIZES.

PAVING

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE, EXCEPT WHERE NOTED IN THE PLANS.

THE HIGH SIDE SHOULDER SLOPE ON SUPER ELEVATED SECTIONS GREATER THAN 2% EQUALS SUPERELEVATION RATE. SEE DETAILS FOR TRANSITION LENGTHS.

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATION SECTIONS EQUALS SUPERELEVATION RATE WHEN SUPERELEVATION IS GREATER THAN 4%. SEE DETAILS FOR TRANSITION LENGTHS.

A UNIT WEIGHT OF 110 POUNDS PER SQUARE YARD PER INCH OF THICKNESS WAS USED TO ESTIMATE ASPHALT QUANTITIES.

HMA PAVEMENTS TYPE E-10 USED ON BELTLINE HIGHWAY FROM GAMMON ROAD TO WHITNEY WAY SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

5.5-INCHES		NOM MAX SIZE GRADATION	ASPHALTIC MATERIAL
	ONE 1.75-INCH UPPER LAYER	12.5 MM	PG 64-28
	ONE 1.75-INCH MIDDLE LAYER	12.5 MM	PG 64-22
	ONE 2-INCH LOWER LAYER	12.5 MM	PG 64-22

HMA PAVEMENTS TYPE E-10 USED ON VERONA ROAD WIDENING AND OVERLAY SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

3-INCHES	OVERLAY	NOM MAX SIZE GRADATION	ASPHALTIC MATERIAL
	ONE 1.75-INCH UPPER LAYER	12.5 MM	PG 64-22
	ONE 1.25-INCH LOWER LAYER	9.5 MM OR 12.5 MM	PG 64-22
5.25-INCHES	WIDENING	NOM MAX SIZE GRADATION	ASPHALTIC MATERIAL
	ONE 1.75-INCH UPPER LAYER	12.5 MM	PG 64-22
	ONE 1.75-INCH MIDDLE LAYER	12.5 MM	PG 64-22
	ONE 1.75-INCH LOWER LAYER	12.5 MM	PG 64-22

HMA PAVEMENTS TYPE E-3 USED ON LOCAL ROADS SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

5.25-INCHES		NOM MAX SIZE GRADATION	ASPHALTIC MATERIAL
	ONE 1.75-INCH UPPER LAYER	12.5 MM	PG 64-28
	ONE 3.5-INCH LOWER LAYER	12.5 MM	PG 64-22

HMA PAVEMENTS TYPE E-1 USED ON LOCAL ROADS SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

4.25-INCHES		NOM MAX SIZE GRADATION	ASPHALTIC MATERIAL
	ONE 2-INCH UPPER LAYER	12.5 MM	PG 58-28
	ONE 2.25-INCH LOWER LAYER	12.5 MM	PG 58-28

HMA PAVEMENTS E-1 USED ON BIKE PATHS SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

3-INCHES		NOM MAX SIZE GRADATION	ASPHALTIC MATERIAL
	ONE 3-INCH LAYER	12.5 MM	PG 58-28

REFERENCE LINE CALL OUTS

VR	VERONA ROAD
K	USH 12/14 WESTBOUND OFF-RAMP (AT WHITNEY WAY)
L	USH 12/14 WESTBOUND ON-RAMP (AT WHITNEY WAY)
K	USH 12/14 WESTBOUND OFF-RAMP (AT WHITNEY WAY)
S	USH 12/14/18/151 EASTBOUND ON-RAMP (AT SEMINOLE HIGHWAY)
SH	SEMINOLE HIGHWAY
SF	WEST BELTLINE HIGHWAY FRONTAGE ROAD (AT SEMINOLE HIGHWAY)
WW	WARWICK WAY
WN	WEST BELTLINE HIGHWAY FRONTAGE ROAD/ VERONA ROAD FRONTAGE ROAD
EE	VERONA ROAD FRONTAGE ROAD/ WEST BELTLINE HIGHWAY FRONTAGE ROAD
SU	SUMMIT ROAD/ATTICUS WAY
FP	FREEPORT CONNECTION
CW	CARLING DRIVEWAY
TL	THURSTON LANE
NP	NIEMANN PLACE
BP	BRITTA PARKWAY
BI	SOUTHWEST COMMUTER BIKE PATH (TEMP.)
WP	WHITNEY WAY BIKE PATH
UH	U-HAUL PARKING LOT
TD	USH 12/14/18/151 EASTBOUND OFF-RAMP (AT TODD DRIVE)
MR	MILITARY RIDGE PATH
Y	MILITARY RIDGE PATH SOUTH CONNECTION
Z	MILITARY RIDGE PATH NORTH CONNECTION
PBM	COUNTY PB AT COUNTY M
MPB	COUNTY M AT COUNTY PB
MFH	COUNTY M AT FISH HATCHERY ROAD (COUNTY D)
FHM	FISH HATCHERY ROAD (COUNTY D) AT COUNTY M
FHW	FISH HATCHERY ROAD (COUNTY D) AT WHALEN ROAD
WFH	WHALEN ROAD AT FISH HATCHERY ROAD (COUNTY D)
SL	SEMINOLE HIGHWAY AT LACY ROAD
LR	LACY ROAD AT SEMINOLE HIGHWAY
PD	COUNTY PD AT SEMINOLE HIGHWAY AND COUNTY PD AT MILITARY RIDGE PATH
SS	SEMINOLE HIGHWAY AT SENTINEL PASS
SP	SENTINEL PASS AT SEMINOLE HIGHWAY
N	NAKOMA ROAD AT SEMINOLE HIGHWAY/YUMA DRIVE
SN	SEMINOLE HIGHWAY AT NAKOMA ROAD
W	WHITNEY WAY AT GILBERT ROAD
JN	USH 12/18 (NEAR JOHN NOLEN DRIVE INTERCHANGE)
AG	USH 12/18 (NEAR AGRICULTURAL DRIVE)
SRC	USH 18/151 (NEAR SPRING ROSE CIRCLE)
LD	USH 18/151 (NEAR LOCUST DRIVE)
GR	USH 18/151 (NEAR GRAND VIEW ROAD)
MPR	USH 12/14 (NEAR MINERAL POINT ROAD)
AP	USH 12 (NEAR AIRPORT ROAD)

DESIGN DESIGNATION

BELTLINE
A.A.D.T. (2013): 119,000
A.A.D.T. (2030): 128,300
D.H.V. (2030): 12,830
D.D. (2030): 50/50
T. (2030): 10.2%
DESIGN SPEED: 60 MPH
EASALS: 22,265,000

VERONA ROAD
A.A.D.T. (2010): 65,700
A.A.D.T. (2030): 74,000
D.H.V. (2030): 7,400
D.D. (2030): 50/50
T. (2030): 10.2%
DESIGN SPEED: 35-45 MPH
EASLS: 19,418,000

CTH PB AT CTH M
A.A.D.T. (2010): 13,100
A.A.D.T. (2015): 13,800
D.H.V. (2015): 1,380
DESIGN SPEED: 40 MPH

CTH M AT CTH PB
A.A.D.T. (2010): 5,000
A.A.D.T. (2015): 6,600
D.H.V. (2015): 660
DESIGN SPEED: 50 MPH

CTH M AT FISH HATCHERY ROAD (CTH D)
A.A.D.T. (2010): 6,000
A.A.D.T. (2015): 6,600
D.H.V. (2015): 660
DESIGN SPEED: 50 MPH

FISH HATCHERY ROAD (CTH D) AT CTH M
A.A.D.T. (2010): 5,400
A.A.D.T. (2015): 5,800
D.H.V. (2015): 580
DESIGN SPEED: 50 MPH

FISH HATCHERY ROAD (CTH D) AT WHALEN ROAD
A.A.D.T. (2010): 5,600
A.A.D.T. (2015): 5,900
D.H.V. (2015): 590
DESIGN SPEED: 40 MPH

WHALEN ROAD AT FISH HATCHERY ROAD (CTH D)
A.A.D.T. (2010): 3,300
A.A.D.T. (2015): 3,500
D.H.V. (2015): 350
DESIGN SPEED: 45 MPH (WEST) / 50 MPH (EAST)

SEMINOLE HIGHWAY AT LACY ROAD
A.A.D.T. (2010): 7,500
A.A.D.T. (2015): 7,900
D.H.V. (2015): 790
DESIGN SPEED: 50 MPH

LACY ROAD AT SEMINOLE HIGHWAY
A.A.D.T. (2010): 5,300
A.A.D.T. (2015): 5,600
D.H.V. (2015): 560
DESIGN SPEED: 55 MPH (WEST) / 40 MPH (EAST)

SEMINOLE HIGHWAY AT McKEE RD. (CTH PD)
A.A.D.T. (2010): 11,000
A.A.D.T. (2015): 11,600
D.H.V. (2015): 1,160
DESIGN SPEED: 45 MPH

McKEE RD. (CTH PD) AT SEMINOLE HIGHWAY
A.A.D.T. (2010): 26,300
A.A.D.T. (2015): 27,600
D.H.V. (2015): 2,760
DESIGN SPEED: 45 MPH

SEMINOLE HIGHWAY AT SENTINEL PASS
A.A.D.T. (2010): 11,000
A.A.D.T. (2015): 11,600
D.H.V. (2015): 1,160
DESIGN SPEED: 40 MPH

SENTINEL PASS AT SEMINOLE HIGHWAY
A.A.D.T. (2010): 3,150
A.A.D.T. (2015): 3,300
D.H.V. (2015): 330
DESIGN SPEED: 30 MPH

SEMINOLE HIGHWAY/YUMA DRIVE AT NAKOMA ROAD
A.A.D.T. (2010): 8,200
A.A.D.T. (2015): 8,500
D.H.V. (2015): 850
DESIGN SPEED: 30 MPH

NAKOMA ROAD AT SEMINOLE HIGHWAY/YUMA DRIVE
A.A.D.T. (2010): 15,350
A.A.D.T. (2015): 16,000
D.H.V. (2015): 1,600
DESIGN SPEED: 35 MPH

McKEE RD. (CTH PD) AT MILITARY RIDGE PATH
A.A.D.T. (2012): 29,400
A.A.D.T. (2015): 32,500
D.H.V. (2015): 2,972
DESIGN SPEED: 45 MPH

WHITNEY WAY AT GILBERT ROAD
A.A.D.T. (2010): 24,250
A.A.D.T. (2015): 25,200
D.H.V. (2015): 2,520
DESIGN SPEED: 35 MPH

GILBERT ROAD AT WHITNEY WAY
A.A.D.T. (2010): 6,300
A.A.D.T. (2015): 6,600
D.H.V. (2015): 660
DESIGN SPEED: 30 MPH

DESIGN CONTACT
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910 WEST WINGRA DRIVE
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2101 WRIGHT STREET
MADISON, WI 53704
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DNR LIAISON
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SOUTH CENTRAL REGION
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711-5397
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UTILITIES

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2147 CTH PB
VERONA, WI 53593
(608) 845-1148
E-MAIL: jeffnelson@alliantenergy.com

AT&T WISCONSIN
ATTENTION: CAROL ANASON
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ATC MANAGEMENT, INC.
ATTENTION: MATT DOPP
5303 FEN OAK DRIVE
MADISON, WI 53718
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CHARTER COMMUNICATIONS
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E-MAIL: glen.jakusz@chartercom.com

CENTURYLINK
ATTENTION: KYLE TOSTENSON
(318) 417-2768
E-MAIL: kyle.tostenson@centurylink.com

CITY OF FITCHBURG
ATTENTION: HOLLY POWELL
5520 LACY ROAD
FITCHBURG, WI 53711
(608) 270-4263
E-MAIL: holly.powell@city.fitchburg.wi.us

CITY OF MADISON ENGINEERING - SEWER
ATTENTION: MARK MODER
210 MARTIN LUTHER KING JR. BOULEVARD, ROOM 115
MADISON, WI 53703
(608) 261-9250
E-MAIL: mmoder@cityofmadison.com

CITY OF MADISON WATER UTILITY
ATTENTION: ADAM WIEDERHOEFT
119 EAST OLIN AVENUE
MADISON, WI 53713-1431
(608) 266-9121
E-MAIL: awiederhoeft@cityofmadison.com

CITY OF MADISON TRAFFIC ENGINEERING
ATTENTION: BRIAN SMITH
215 MARTIN LUTHER KING, JR BOULEVARD, SUITE 100
MADISON, WI 53703
(608) 261-9625
E-MAIL: bsmith@cityofmadison.com

FRONTIER COMMUNICATIONS OF WI, LLC
ATTENTION: BRIAN VAN OOYEN
451 BROADWAY DRIVE
SUN PRAIRIE, WI 53590
(608) 837-1151
E-MAIL: brian.vanooyen@ftr.com

MADISON GAS AND ELECTRIC COMPANY - ELECTRICITY
ATTENTION: MARTY JACOBI
P.O. BOX 1231
MADISON, WI 53703
(608) 252-4785
E-MAIL: mjacobi@mge.com

MADISON GAS AND ELECTRIC COMPANY - GAS/PETROLEUM
ATTENTION: LARRY CAPPS
133 S BLAIR ST
MADISON, WI 53703
(608) 252-7224
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MADISON METROPOLITAN SEWERAGE DISTRICT - SEWER
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E-MAIL: rays@madsewer.org

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WISCONSIN INDEPENDENT NETWORK
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DIGGERS HOTLINE

CALL 811 3 WORKING DAYS BEFORE YOU DIG
OR TOLL FREE (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

ABBREVIATIONS

AECP	APRON ENDWALLS FOR CULVERT PIPE
AECPHE	APRON ENDWALL FOR CULVERT PIPE HORIZONTAL ELLIPTICAL
AECPRCHE	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
AEPAS	APRON ENDWALLS FOR PIPE ARCH STEEL
APPROX.	APPROXIMATELY
B.	BARN
BOT.	BOTTOM
B.P.	BREAK POINT
C.E.	COMMERCIAL ENTRANCE
CONC.	CONCRETE
CON'T.	CONTINUED
COR.	CORNER
CPCM	CULVERT PIPE CORRUGATED METAL
CPCS	CULVERT PIPE CORRUGATED STEEL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
D.H.V.	DESIGN HOURLY VOLUME
V.	DESIGN SPEED
Da	DEGREE OF CURVE
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DWLS.	DOWELS
e.	EXTERNAL DISTANCE
E.	EAST
E.A.T.	ENERGY ABSORBING TERMINAL
EL. OR ELEV.	ELEVATION
E.S.A.L.	EQUIVALENT SINGLE AXLE LOAD
E.O.P.	EDGE OF PAVEMENT
EXIST.	EXISTING
F.E.	FIELD ENTRANCE
G.	GARAGE
H.	HOUSE
H.P.	HIGH POINT
H.E.S.	HIGH EARLY STRENGTH
HORIZ.	HORIZONTAL
I.D.	INSIDE DIAMETER
I.P.	IRON PIN
D.	LANE DISTRIBUTION
L.	LENGTH (OF CURVE)
L.H.F.	LEFT HAND FORWARD
L.C.	LONG CHORD
L.P.	LOW POINT
LT	LEFT
MAX.	MAXIMUM
MED	MEDIAN
M.D.	MEDIAN DRAIN
MIN.	MINIMUM
NOR.	NORMAL
N.	NORTH
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
T.	PERCENT OF TRUCKS
PACS	PIPE ARCH CORRUGATED STEEL
P.L.E.	PERMANENT LIMITED EASEMENT
P.E.	PRIVATE ENTRANCE
P.L.	PROPERTY LINE
R.H.F.	RIGHT HAND FORWARD
RD.	ROAD
REINF.	REINFORCEMENT
REQ'D	REQUIRED
RT	RIGHT
R/W	RIGHT-OF-WAY
S.	SHED
SHR.	SHRINKAGE
S.E.	SUPERELEVATION
S.P.B.G.	STEEL PLATE BEAM GUARD
SL. ST.	SLOPED STEEL
SQ.	SQUARE
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA.	STATION
TEL.	TELEPHONE
T.L.E.	TEMPORARY LIMITED EASEMENT
TN.	TOWN
T.O.C.	TOP OF CURB
TRANS.	TRANSITION
VERT.	VERTICAL
VOL.	VOLUME
W.	WEST

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
STRUCTURES OVERVIEW
SOIL BORINGS OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
PAVING DETAILS
ITS
EROSION CONTROL (INCLUDES STORM SEWER FOR INTERSECTION IMPROVEMENTS)
STORM SEWER REMOVALS
STORM SEWER
UTILITY PLANS
PERMANENT SIGNING
ALTERNATE ROUTE SIGNING
ADVANCED WARNING SIGNING
LIGHTING PLAN
SIGNAL PLAN
PAVEMENT MARKING
CONSTRUCTION STAGING TYPICALS
CONSTRUCTION STAGING SHEETS
PLAN REHAB/TRAFFIC CONTROL SHEETS (INTERSECTION IMPROVEMENTS)
DETOUR ROUTES
FENCING
ALIGNMENT DATA SHEETS (INTERSECTION IMPROVEMENTS ON PLAN SHEETS)
CONTROL POINT DATA SHEETS

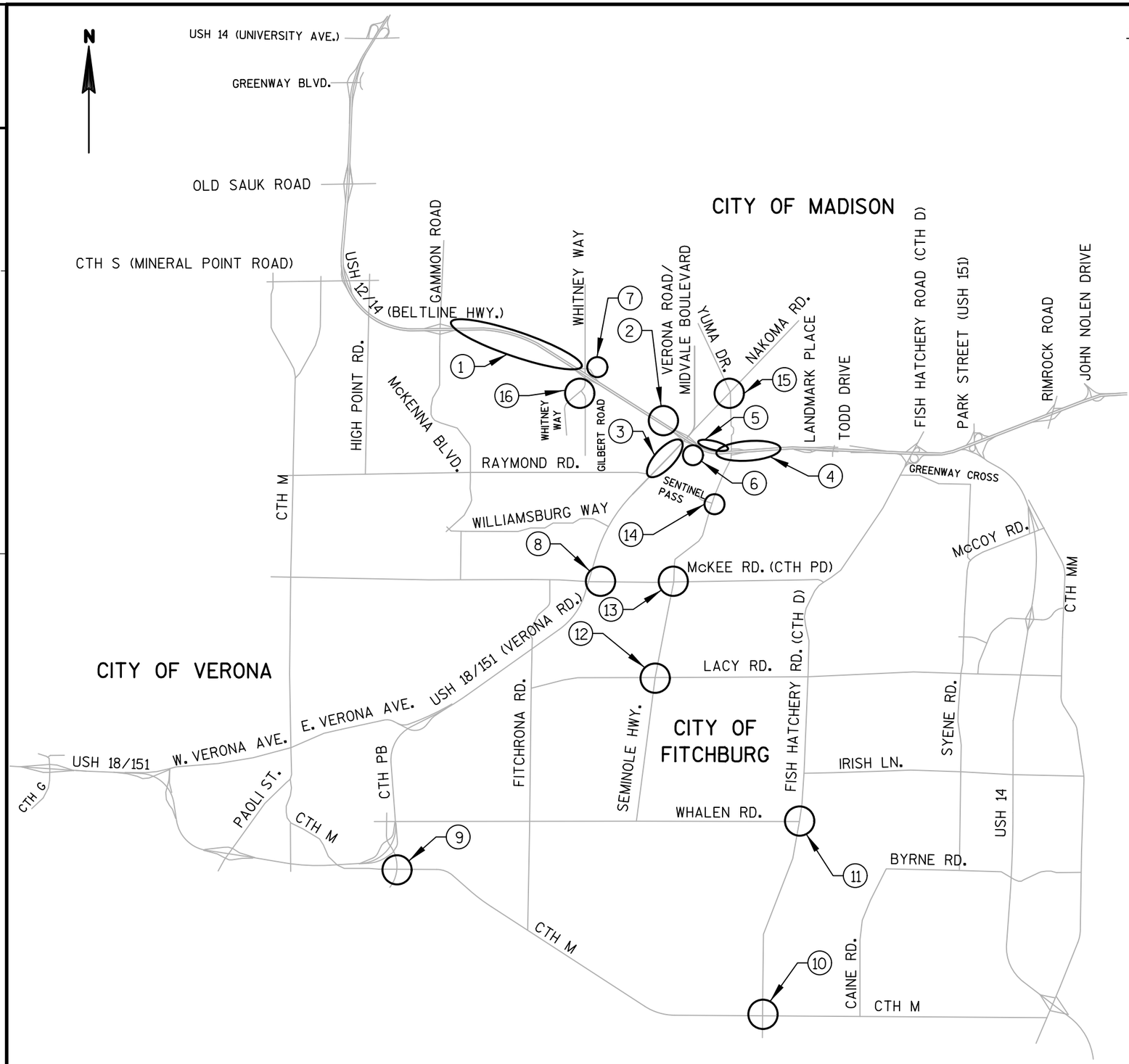
DESIGNER NOTES

DESIGN, PLANS, AND SPECIFICATIONS FOR FREEPORT ROAD, NIEMAN PLACE, BRITTA PARKWAY, AND TEMPORARY LIGHTING PROVIDED BY KL ENGINEERING.

DESIGN, PLANS, AND SPECIFICATIONS FOR STRUCTURES R-13-204, N-13-2, R-13-1000-TW1, R-13-1000-TW2 AND R-13-1000-TW3 PROVIDED BY AECOM.

DESIGN, PLANS, AND SPECIFICATIONS FOR STRUCTURES N-13-3, N-13-4, S-13-376, S-13-384, S-13-394 AND S-13-395 PROVIDED BY CORRE.

DESIGN, PLANS, AND SPECIFICATIONS FOR STRUCTURE B-13-664 PROVIDED BY WISDOT.



ROADWAY IMPROVEMENT LOCATIONS

(1) USH 12/14 THIRD LANE - WHITNEY WAY TO GAMMON ROAD (MAINLINE), WESTBOUND ON RAMP (L LINE), AND WHITNEY WAY BIKE PATH (WP LINE)

(2) STORM SEWER CROSSING OF USH 12/14 AND DETENTION BASIN B

(3) VERONA ROAD OVERLAY/WIDENING (VR LINE), TRUNK LINE STORM SEWER, DETENTION BASIN A, RETAINING WALL (R-13-204), FREEPORT ROAD (FP LINE), AND UHAUL PARKING LOT (UH LINE)

(4) SEMINOLE HIGHWAY BRIDGE AND APPROACHES (B-13-664) (SH LINE), RETAINING WALLS (R-13-235 AND R-13-236), EASTBOUND ON RAMP (S LINE), FRONTAGE ROAD (SF LINE), AND USH 12/14/18/151 AUXILLARY LANE (MAINLINE)

(5) WARWICK WAY (WW LINE) AND NOISE WALL (N-13-0002)

(6) NOISE WALL (N-13-0003)

(7) NOISE WALL (N-13-0004)

(8) MILITARY RIDGE PATH OVERPASS (B-13-666) (MR LINE), MILITARY RIDGE PATH APPROACHES (Y LINE AND Z LINE), CTH PD (PD LINE), AND RETAINING WALLS (R-13-242 AND R-13-243)

(9) CTH PB (PB LINE) AND CTH M (MPB LINE) INTERSECTION

(10) CTH M (MFH LINE) AND CTH D (FISH HATCHERY ROAD) (FHM LINE) INTERSECTION

(11) CTH D (FISH HATCHERY ROAD) (FHW LINE) AND WHALEN ROAD INTERSECTION (WFH LINE)

(12) SEMINOLE HIGHWAY (SL LINE) AND LACY ROAD (LR LINE) INTERSECTION

(13) SEMINOLE HIGHWAY AND CTH PD (McKEE ROAD) (PD LINE) INTERSECTION

(14) SEMINOLE HIGHWAY (SS LINE) AND SENTINEL PASS (SP LINE) INTERSECTION

(15) SEMINOLE HIGHWAY/YUMA DRIVE (SN LINE) AND NAKOMA ROAD (N LINE) INTERSECTION

(16) WHITNEY WAY (W LINE) AND GILBERT ROAD INTERSECTION

PROJECT NO: 1206-00-72/07-77/81/83	HWY: USH 18	COUNTY: DANE	PROJECT OVERVIEW	SHEET 4	E

2

CITY OF FITCHBURG

USH 18/151 (VERONA ROAD)

CTH PD (McKEE ROAD)

R-13-242

R-13-243

B-13-666

MATCHLINE STA. 1124+00

EXISTING STRUCTURE B-13-497 TO REMAIN

USH 12/14

HAMMERSLEY ROAD

MIDVALE BOULEVARD

NAKOMA ROAD

R-13-244

R-13-245

S-13-0376

MATCHLINE STA. 1185+00

USH 12/14/18/151

CITY OF MADISON

2

CITY OF MADISON

N-13-0002

R-13-235

WARWICK WAY

USH 12/14/18/151

MATCHLINE STA. 1185+00

R-13-236

B-13-664

SEMINOLE HWY.

N-13-0003

E. VERONA ROAD FRONTAGE ROAD

W. VERONA ROAD FRONTAGE ROAD

USH 18/151 (VERONA ROAD)

R-13-204

R-13-0TW4

R-13-0TW3

R-13-0TW2

RAYMOND ROAD

EXISTING STRUCTURE B-13-455 TO REMAIN

R-13-0TW1

EXISTING STRUCTURE B-13-356 TO REMAIN

N-13-0004

CITY OF MADISON

MATCHLINE STA. 1076+00

WHITNEY WAY

USH 12/14

MATCHLINE STA. 1124+00

S-13-0384

USH 12/14

S-13-0383

S-13-0395

S-13-0394

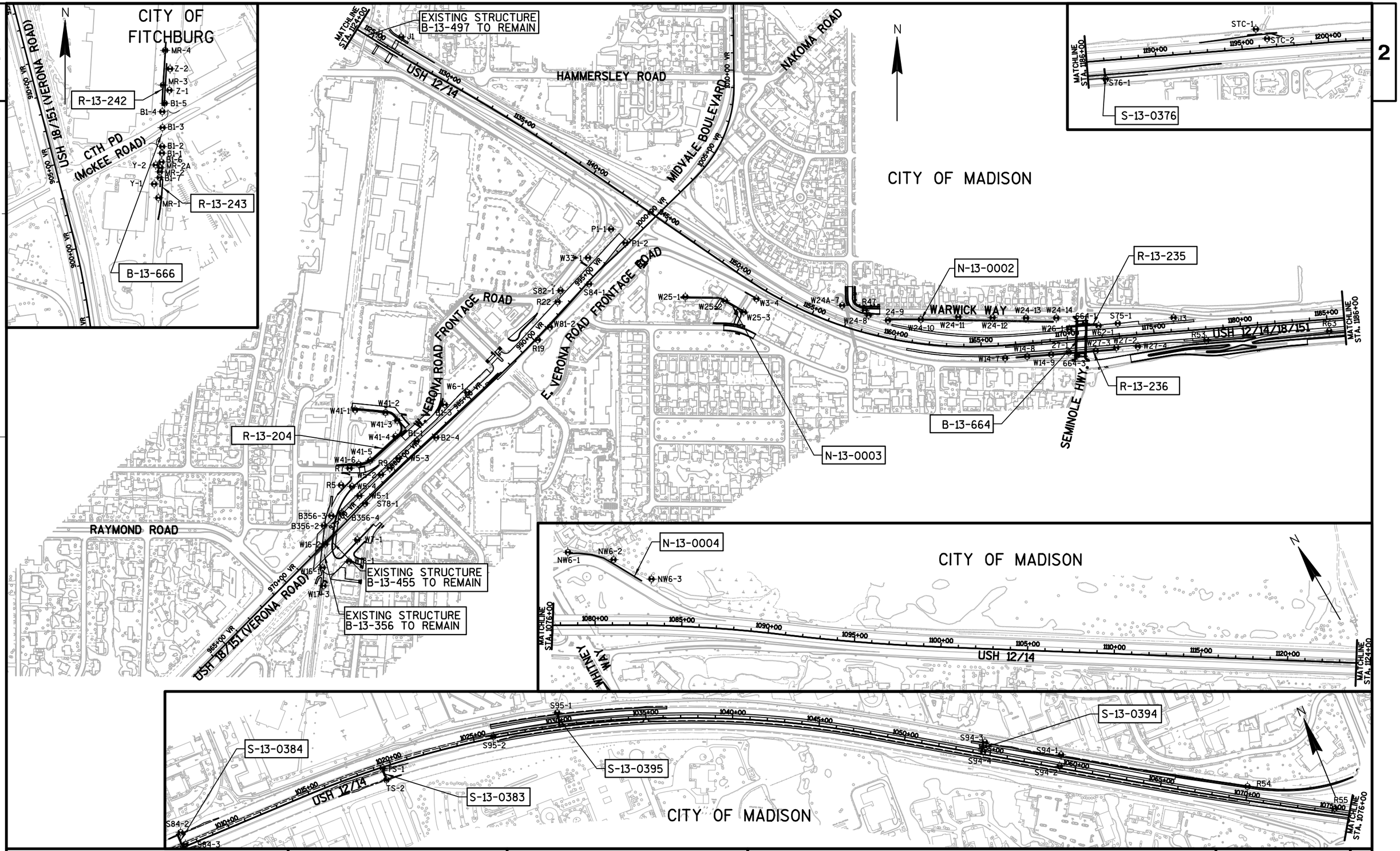
CITY OF MADISON

MATCHLINE STA. 1076+00

PROJECT NO: 1206-00-72/07-77/81/83	HWY: USH 18	COUNTY: DANE	STRUCTURES OVERVIEW	SHEET 5	E

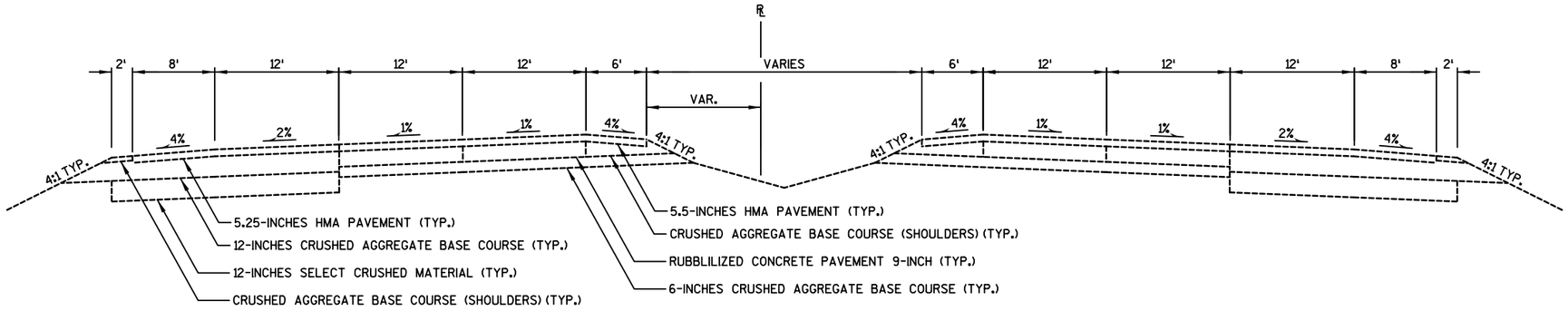
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WISDOT/CADDS SHEET 42



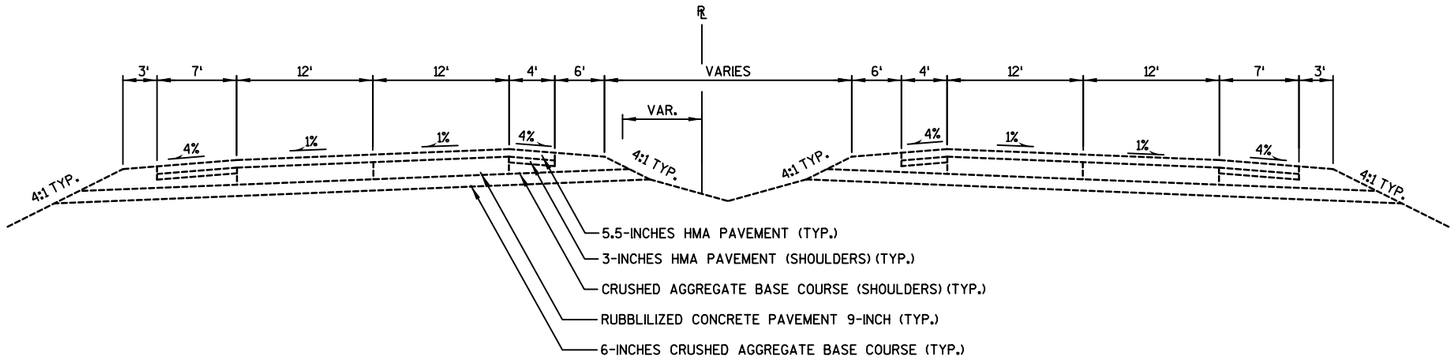
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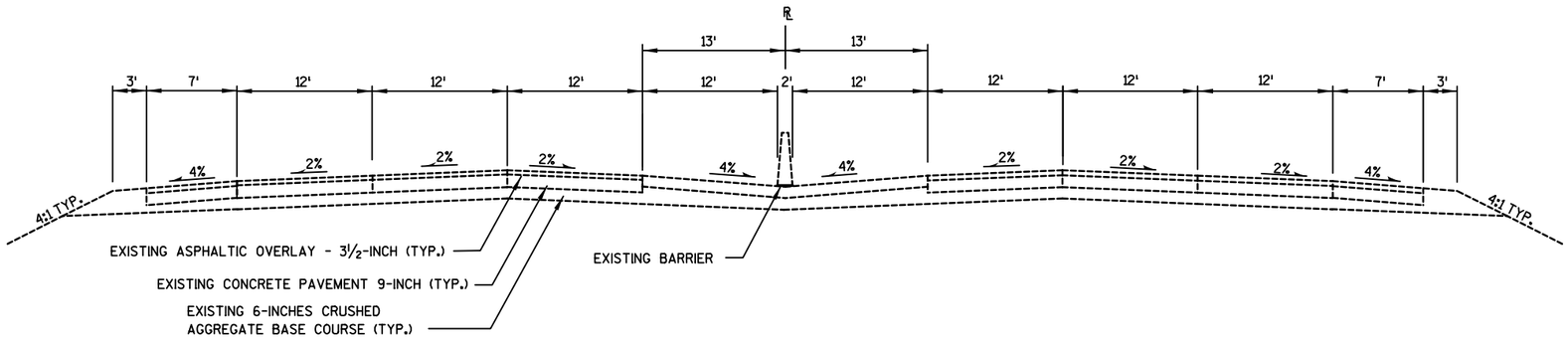
EXISTING TYPICAL SECTION - BELTLINE

STA. 994+76.8+00 TO STA. 1025+00.9



EXISTING TYPICAL SECTION - BELTLINE

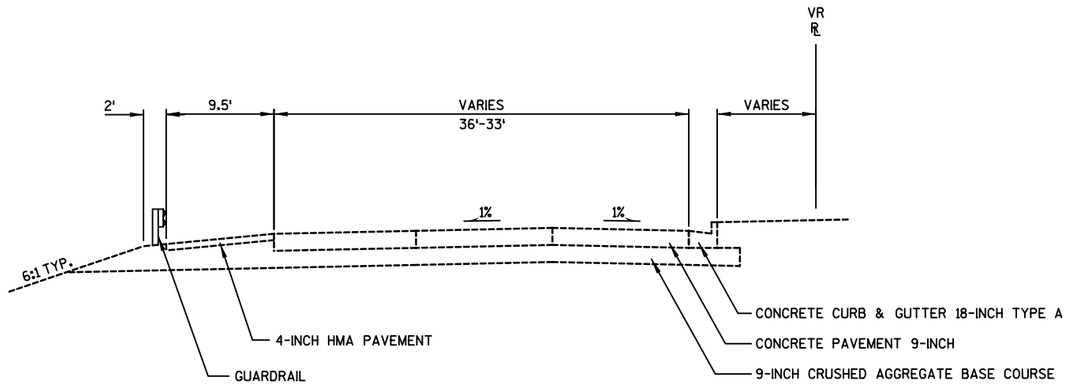
STA. 1025+00 TO STA. 1077+41



EXISTING TYPICAL SECTION - BELTLINE

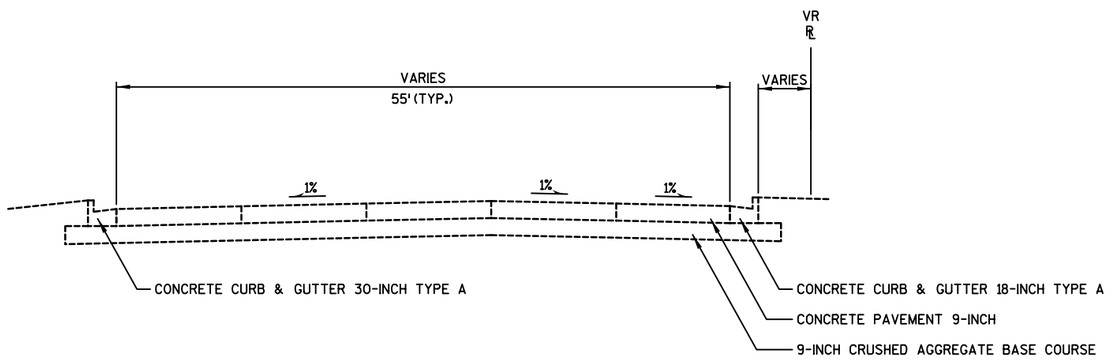
STA. 1177+20.0 TO STA. 1193+72.6

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EXISTING TYPICAL SECTIONS - BELTLINE HIGHWAY	SHEET 7	E



EXISTING TYPICAL HALF SECTION - VERONA ROAD WESTBOUND

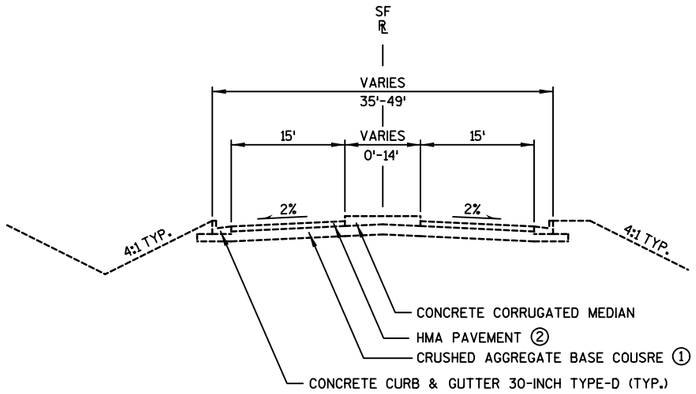
STA. 975+15 VR TO STA. 986+85 VR



EXISTING TYPICAL HALF SECTION - VERONA ROAD WESTBOUND

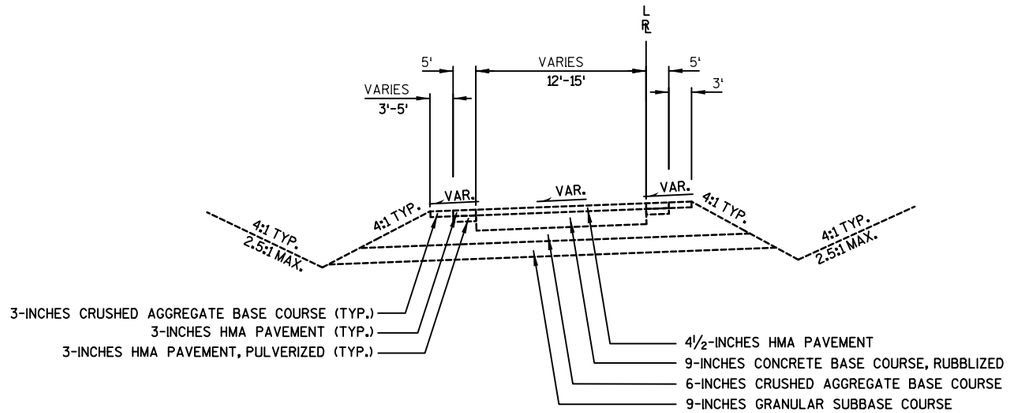
STA. 986+85 VR TO STA. 997+80 VR

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EXISTING TYPICAL SECTIONS - VERONA ROAD	SHEET 8	E



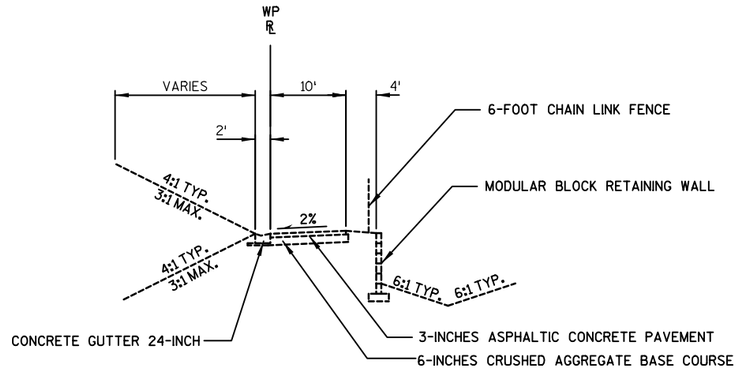
EXISTING TYPICAL SECTION - SEMINOLE FRONTAGE ROAD

STA. 74+00.0 SF TO STA. 77+25.0 SF
STA. 79+31.5 SF TO STA. 85+30.0 SF



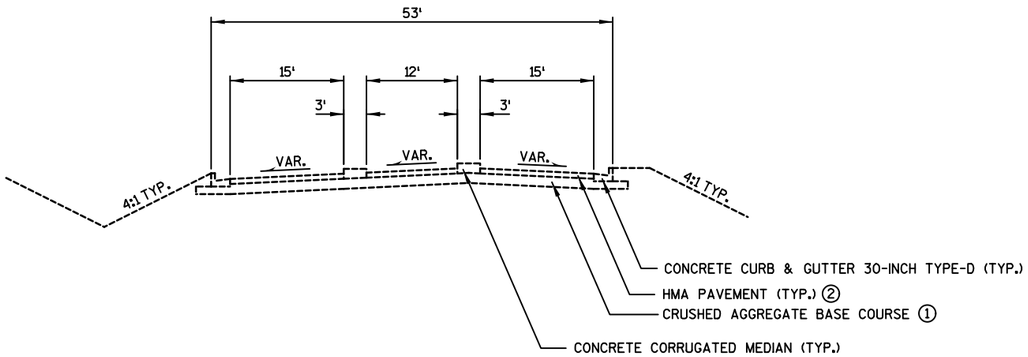
EXISTING TYPICAL SECTION - L RAMP

STA. 66+72.4 L TO STA. 76+24.3 L



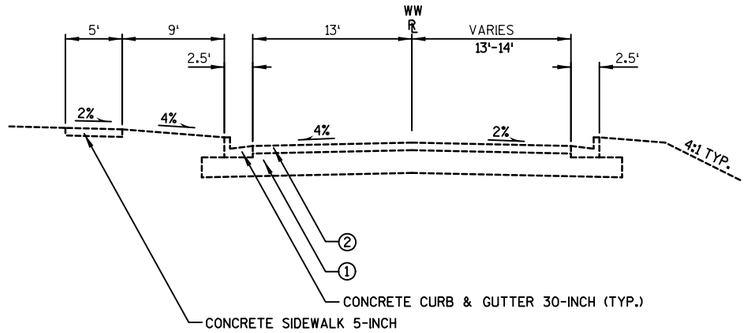
EXISTING TYPICAL SECTION - WHITNEY WAY BIKE PATH

STA. 64+50 WP TO STA. 65+30 WP



EXISTING TYPICAL SECTION - SEMINOLE FRONTAGE ROAD AND RAMP APPROACH

STA. 77+25.0 SF TO STA. 78+33.7 SF
STA. 77+26.3 SF TO STA. 79+31.5 SF



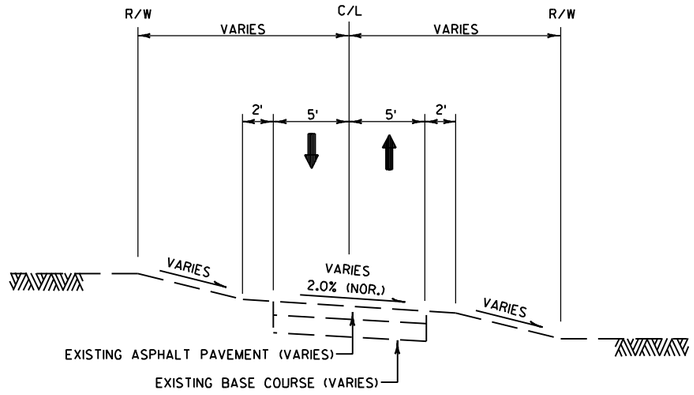
TYPICAL EXISTING SECTION - WARWICK WAY

STA. 50+75 WW - STA. 53+50 WW

① EXISTING CRUSHED AGGREGATE BASE COURSE THICKNESS UNAVAILABLE.

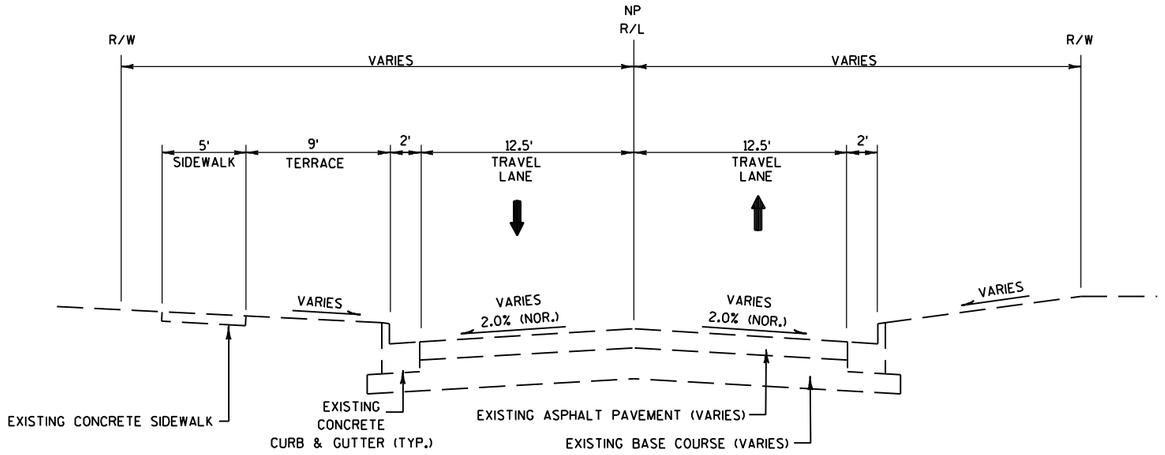
② EXISTING HMA PAVEMENT THICKNESS UNAVAILABLE.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EXISTING TYPICAL SECTIONS	SHEET 9	E



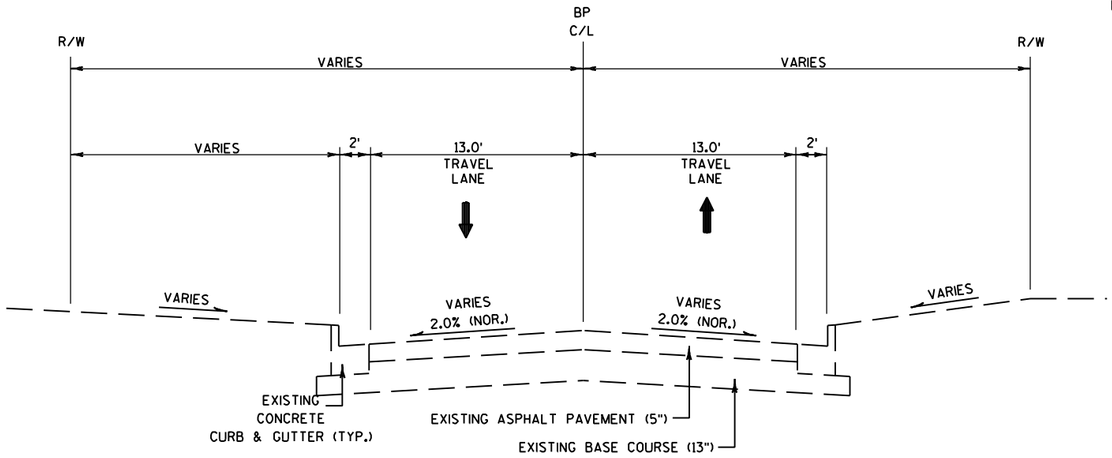
TYPICAL EXISTING SECTION, SOUTHWEST COMMUTER BIKE PATH

STA. 9+00BI - STA. 16+00BI



EXISTING TYPICAL SECTION, NIEMANN PLACE

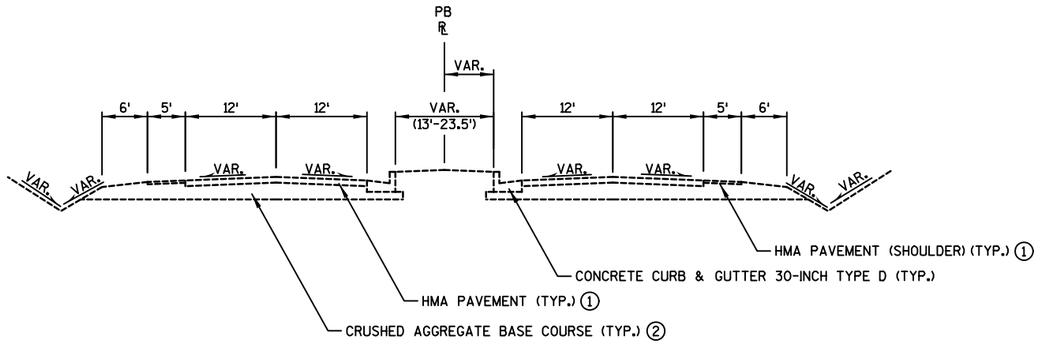
STA. 10+00NP - STA. 11+00NP



EXISTING TYPICAL SECTION, BRITTA PARKWAY

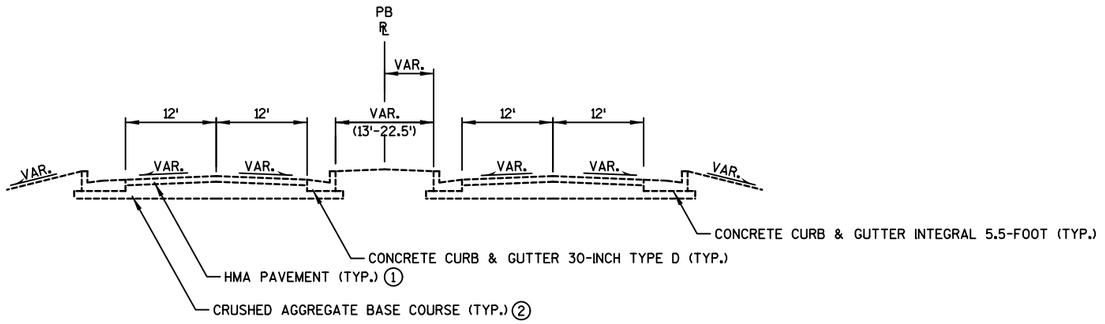
STA. 17+00BP - STA. 20+00BP

CTH PB & CTH M INTERSECTION



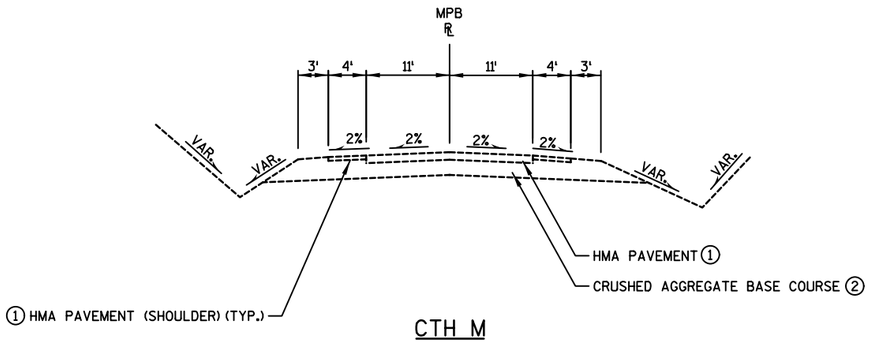
CTH PB (SOUTH OF CTH M)

STA. 91+48.9 PB TO STA. 100+00.0 PB



CTH PB (NORTH OF CTH M)

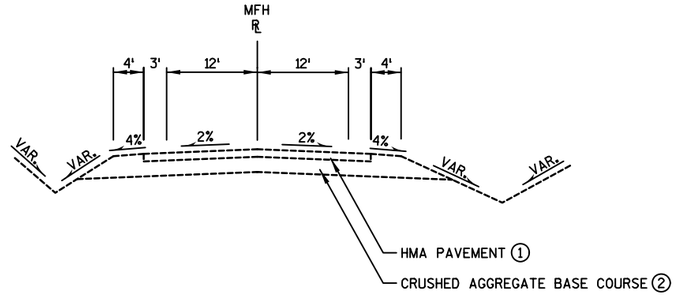
STA. 100+00.0 PB TO STA. 105+25.5 PB



CTH M

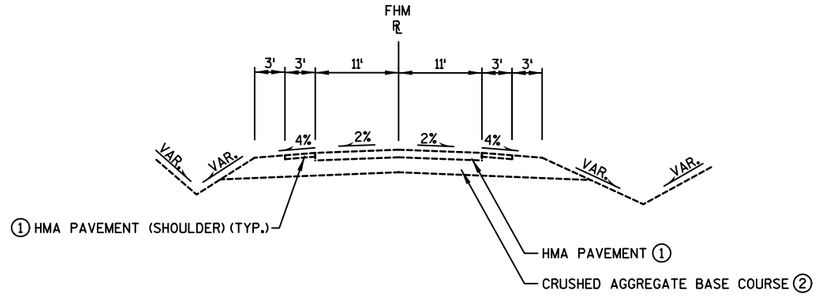
STA. 86+65.6 MPB TO STA. 112+46.9 MPB

CTH M & FISH HATCHERY ROAD (CTH D) INTERSECTION



CTH M

STA. 87+53.0 MFH TO STA. 112+67.2 MFH



FISH HATCHERY ROAD (CTH D)

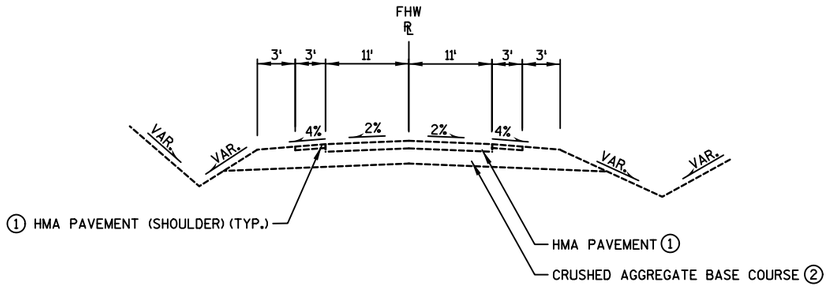
STA. 93+16.9 FHM TO STA. 106+97.2 FHM

① EXISTING HMA PAVEMENT THICKNESSES UNAVAILABLE.

② EXISTING CRUSHED AGGREGATE BASE COURSE THICKNESSES UNAVAILABLE.

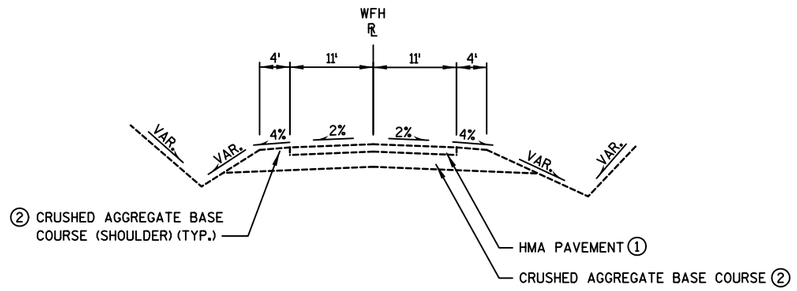
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EXISTING TYPICAL SECTIONS - INTERSECTION IMPROVEMENTS	SHEET 11	E

FISH HATCHERY ROAD (CTH D) & WHALEN ROAD INTERSECTION



FISH HATCHERY ROAD (CTH D)

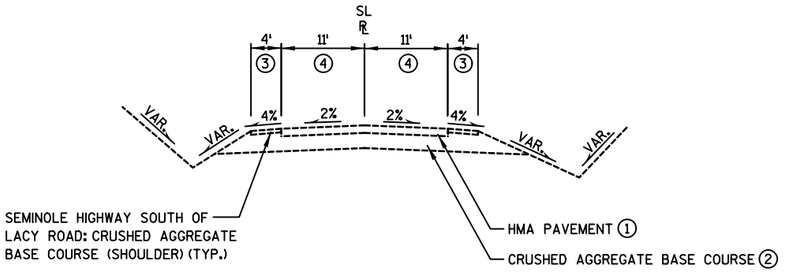
STA. 95+83.6 FHW TO STA. 108+58.3 FHW



WHALEN ROAD

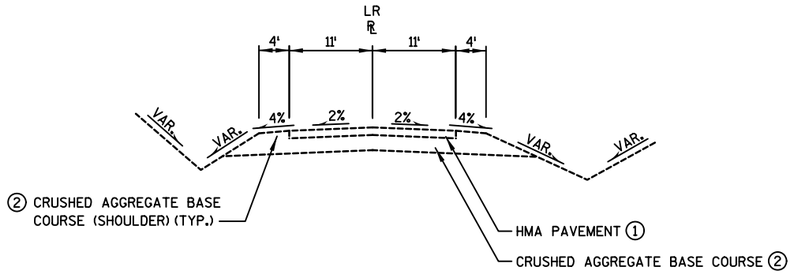
STA. 97+37.4 WFH TO STA. 100+64.1 WFH

SEMINOLE HIGHWAY & LACY ROAD INTERSECTION



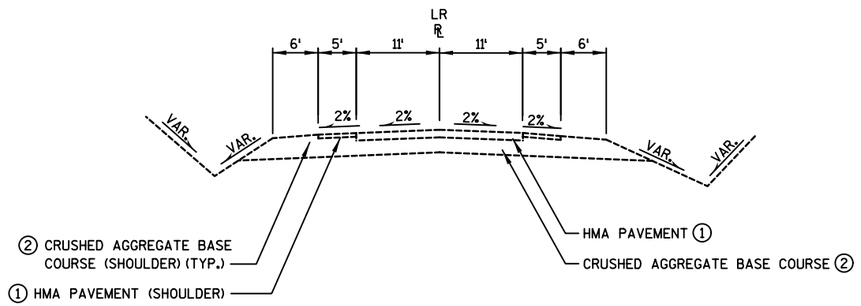
SEMINOLE HIGHWAY

STA. 90+53.8 SL TO STA. 107+02.9 SL



LACY ROAD (WEST OF SEMINOLE HIGHWAY)

STA. 96+85.3 LR TO STA. 100+00.0 LR



LACY ROAD (EAST OF SEMINOLE HIGHWAY)

STA. 100+00.0 LR TO STA. 103+51.8 LR

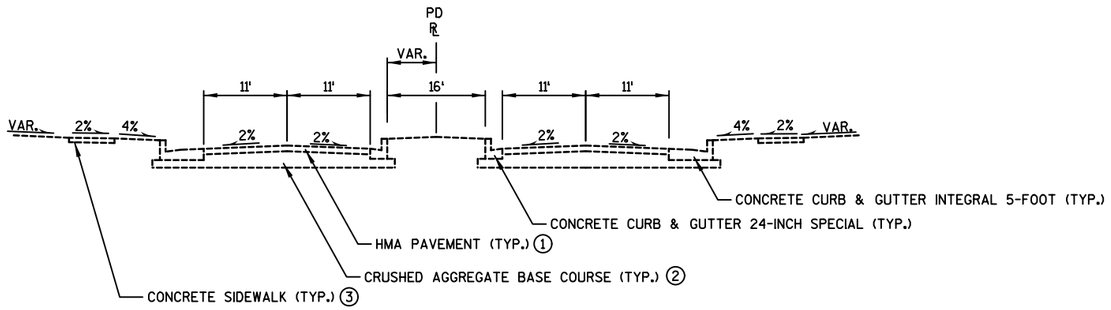
① EXISTING HMA PAVEMENT THICKNESSES UNAVAILABLE.

② EXISTING CRUSHED AGGREGATE BASE COURSE THICKNESSES UNAVAILABLE.

③ 5' NORTH OF LACY ROAD

④ 12' NORTH OF LACY ROAD

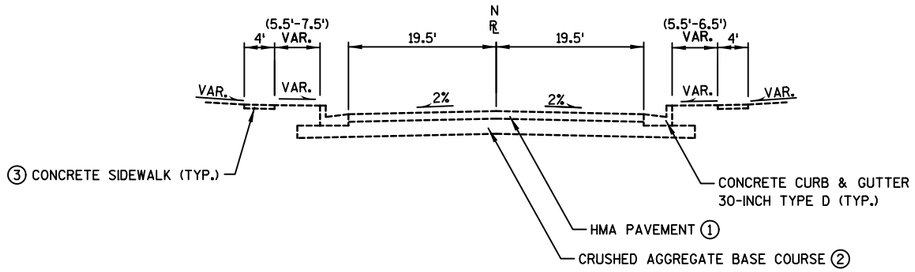
McKEE ROAD (CTH PD) & SEMINOLE HIGHWAY INTERSECTION



McKEE ROAD (CTH PD)

STA. 93+46.6 PD TO STA. 98+00.0 PD

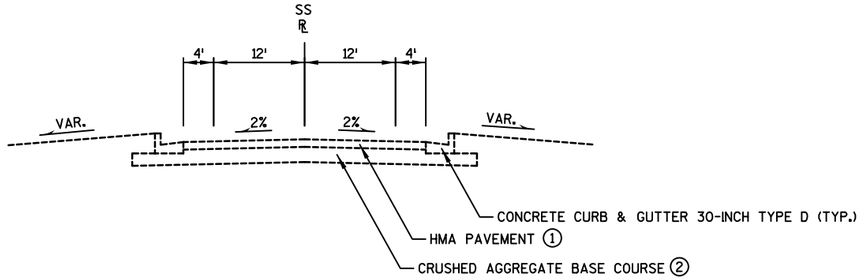
SEMINOLE HIGHWAY/YUMA DRIVE & NAKOMA ROAD INTERSECTION



NAKOMA ROAD

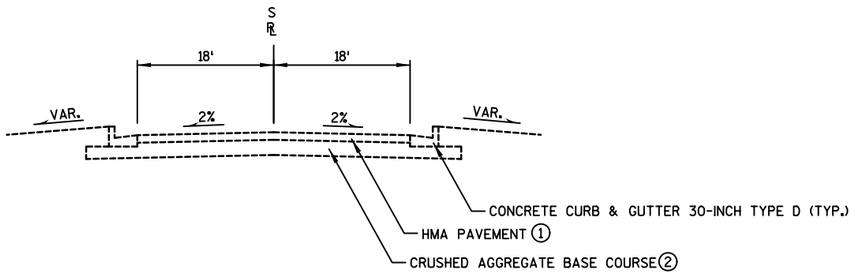
STA. 98+14.0 N TO STA. 103.06.0 N

SEMINOLE HIGHWAY & SENTINEL PASS INTERSECTION



SEMINOLE HIGHWAY

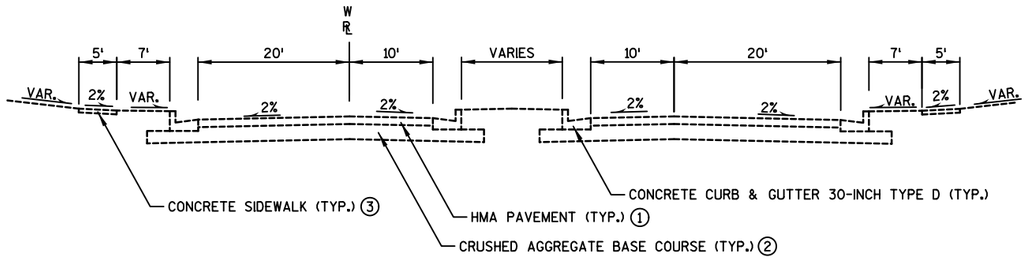
STA. 95+87.5 SS TO STA. 103+27.4 SS



SENTINEL PASS

STA. 97+07.4 S TO STA. 100+00.0 S

WHITNEY WAY & GILBERT ROAD INTERSECTION



WHITNEY WAY

STA. 97+11.8 W TO STA. 102+62.1 W

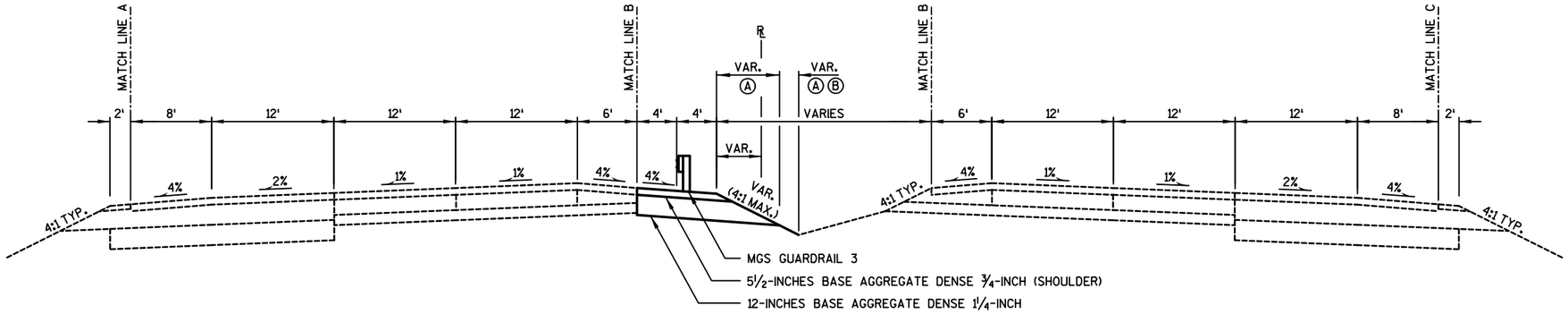
① EXISTING HMA PAVEMENT THICKNESSES UNAVAILABLE.

② EXISTING CRUSHED AGGREGATE BASE COURSE THICKNESSES UNAVAILABLE.

③ EXISTING CONCRETE SIDEWALK THICKNESSES UNAVAILABLE.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EXISTING TYPICAL SECTIONS - INTERSECTION IMPROVEMENTS	SHEET 13	E

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.

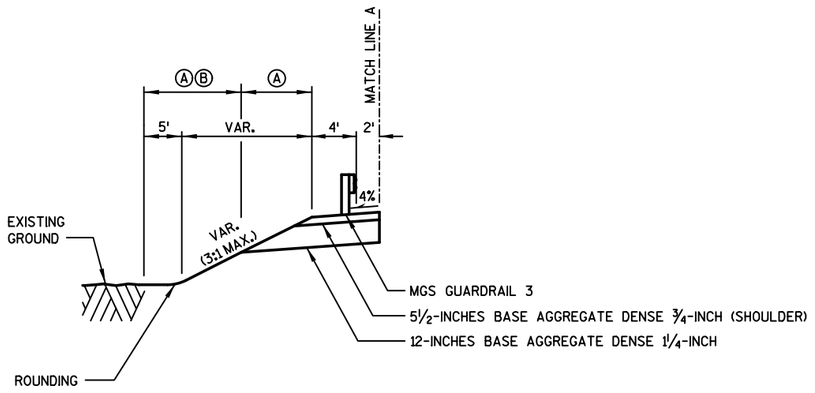


FINISHED TYPICAL SECTION - BELTLINE

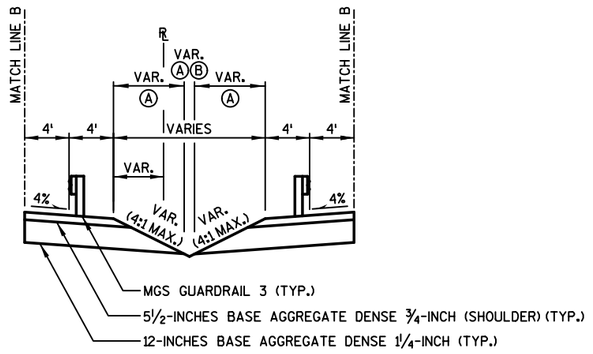
STA. 994+76.8 TO STA. 1025+00.9

Ⓐ SEEDING TEMPORARY; FERTILIZER TYPE B; AND SEEDING MIXTURE NO. 20.

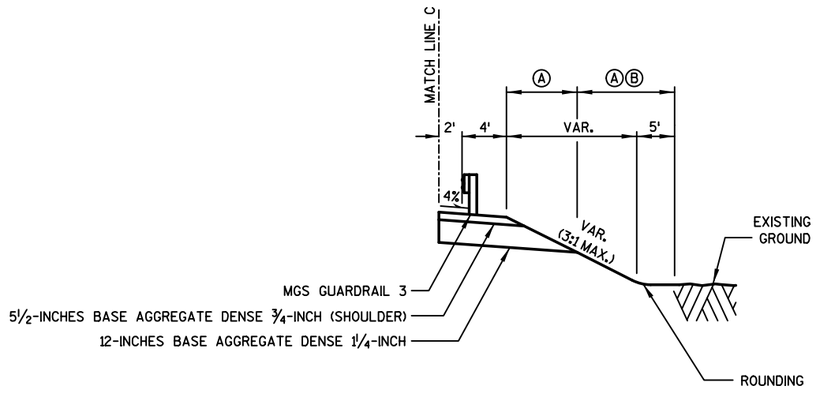
Ⓑ SALVAGED TOPSOIL AND EROSION MAT CLASS I TYPE B. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.



STA. 1006+54.1 TO STA. 1009+65.7

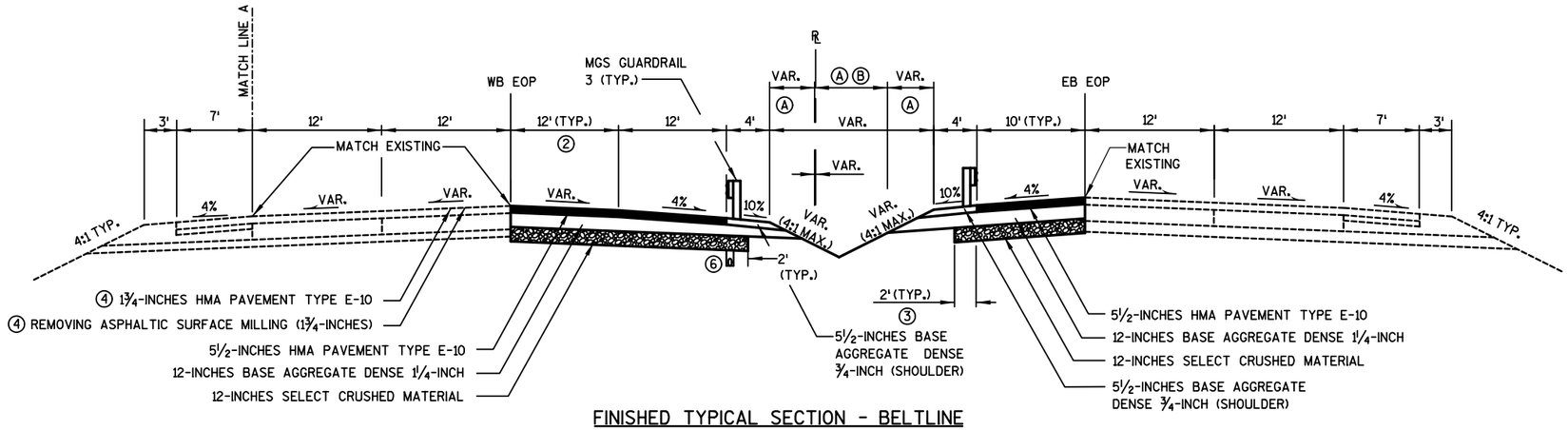


STA. 1002+75.8 TO STA. 1008+59.5
STA. 1015+16.9 TO STA. 1020+99.1



STA. 1016+54.5 TO STA. 1020+42.1

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - BELTLINE HIGHWAY	SHEET 14	E



FINISHED TYPICAL SECTION - BELTLINE

STA. 1025+00.9 TO STA. 1036+14.6

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.

① VARIES 12' - STA. 1026+10.0 TO 0' - STA. 1035+27.8

② VARIES 0' - STA. 1026+10 TO 12' - STA. 1035+27.5

③ REFER TO CONSTRUCTION DETAILS FOR FRENCH DRAIN DETAIL.

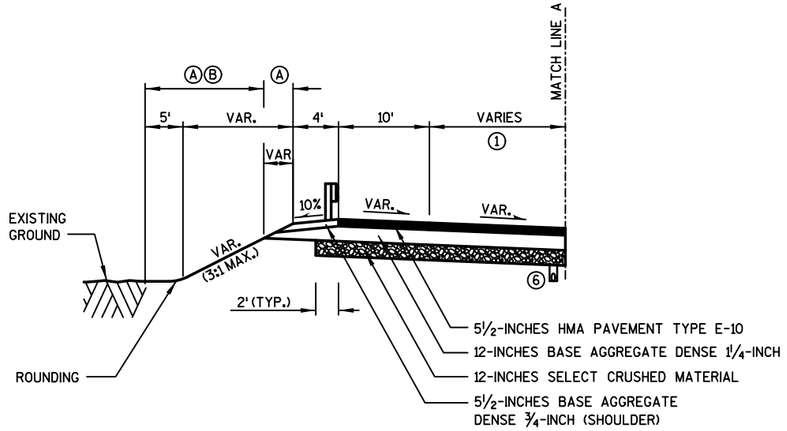
④ STA. 1026+10 TO STA. 1035+28 SEE PLAN DETAILS

⑤ 0' - STA. 1053+80.6 TO STA. 1056+12.0
VARIES 0' - STA. 1056+12.0 TO 12' - STA. 1059+72.0

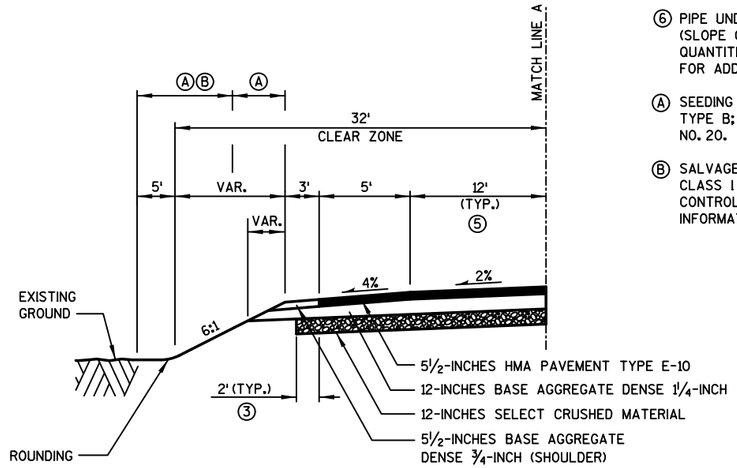
⑥ PIPE UNDERDRAIN 6-INCH (SLOPE 0.5% MIN.) SEE MISCELLANEOUS QUANTITIES AND CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

Ⓐ SEEDING TEMPORARY; FERTILIZER TYPE B; AND SEEDING MIXTURE NO. 20.

Ⓑ SALVAGED TOPSOIL AND EROSION MAT CLASS I TYPE B. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.

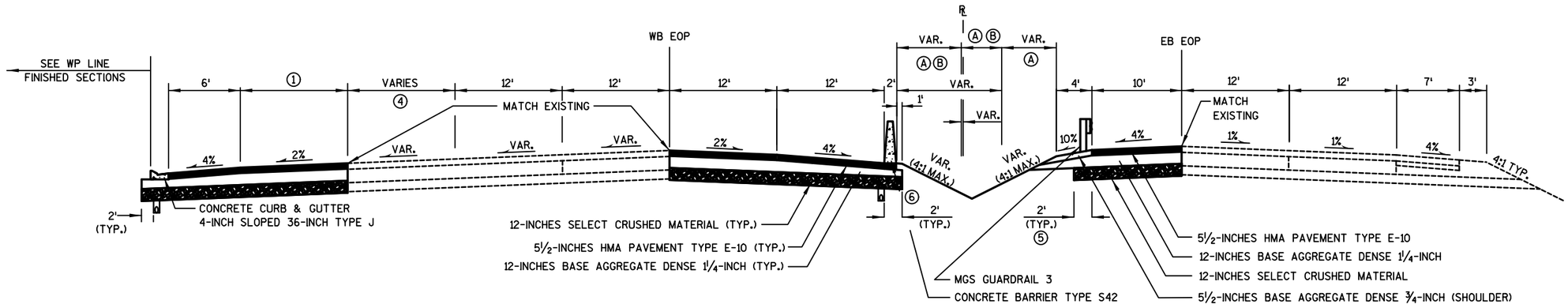


STA. 1026+10.0 TO STA. 1035+99.1



STA. 1053+80.6 TO STA. 1063+87.5

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - BELTLINE HIGHWAY	SHEET 15	E



FINISHED TYPICAL SECTION - BELTLINE

STA. 1036+14.6 TO STA. 1069+49.3

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.

① VARIES 12' - STA. 1063+87.5
TO 16' - STA. 1065+75.2

VARIES 3.7' - STA. 1065+75.2
TO 2.4' - STA. 1069+49.3

② VARIES 0' - STA. 1070+20.4
TO 12' - STA. 1077+41.4

③ VARIES 25.6' - STA. 1070+21.3
TO 10' - STA. 1077+41.4

④ VARIES 0' - STA. 1063+87.5
TO 12.3' - STA. 1065+75.2

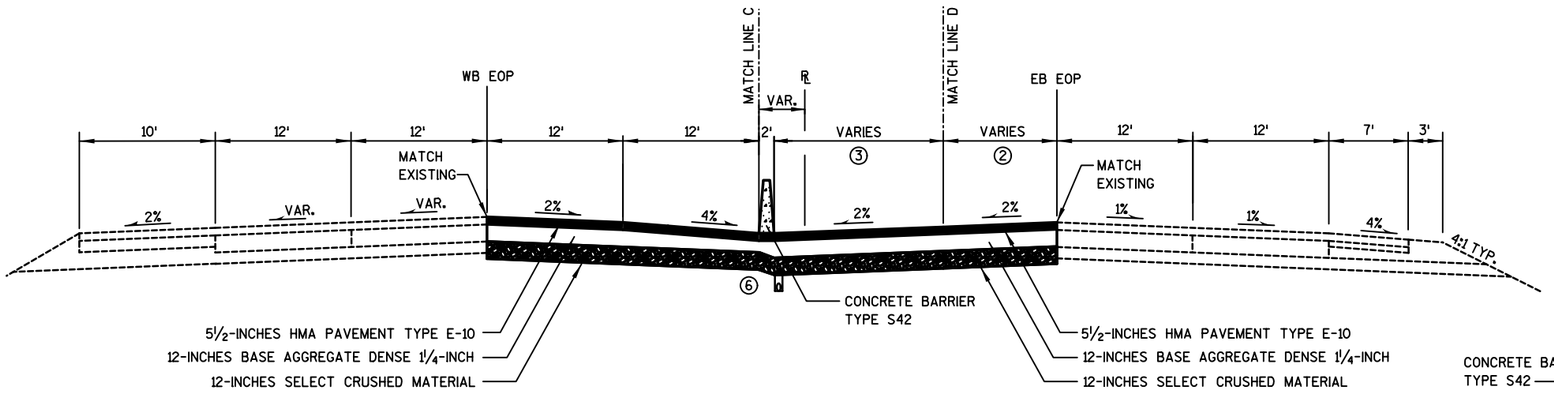
VARIES 12.3' - STA. 1065+75.2
TO 15.2' - STA. 1066+72.4
1¾-INCH HMA PAVEMENT TYPE E-10
AND REMOVING ASPALTIC SURFACE
MILLING (1¾-INCHES) SEE PLAN DETAILS

⑤ REFER TO CONSTRUCTION DETAILS FOR FRENCH DRAIN DETAIL

⑥ PIPE UNDERDRAIN 6-INCH (SLOPE 0.5% MIN.) SEE MISCELLANEOUS QUANTITIES AND CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

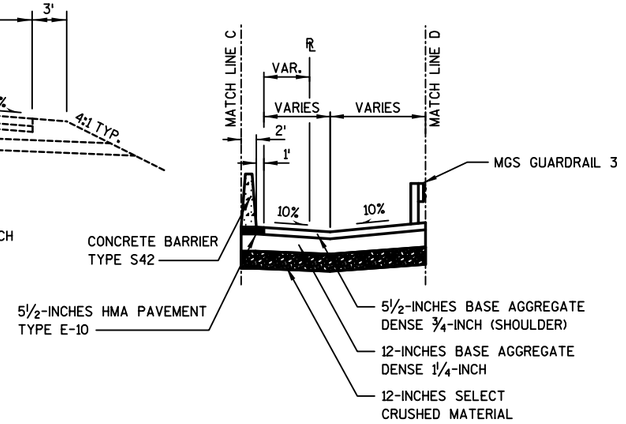
Ⓐ SEEDING TEMPORARY; FERTILIZER TYPE B; AND SEEDING MIXTURE NO. 20.

Ⓑ SALVAGED TOPSOIL AND EROSION MAT CLASS I TYPE B. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.



FINISHED TYPICAL SECTION - BELTLINE

STA. 1069+49.3 TO STA. 1077+41.4

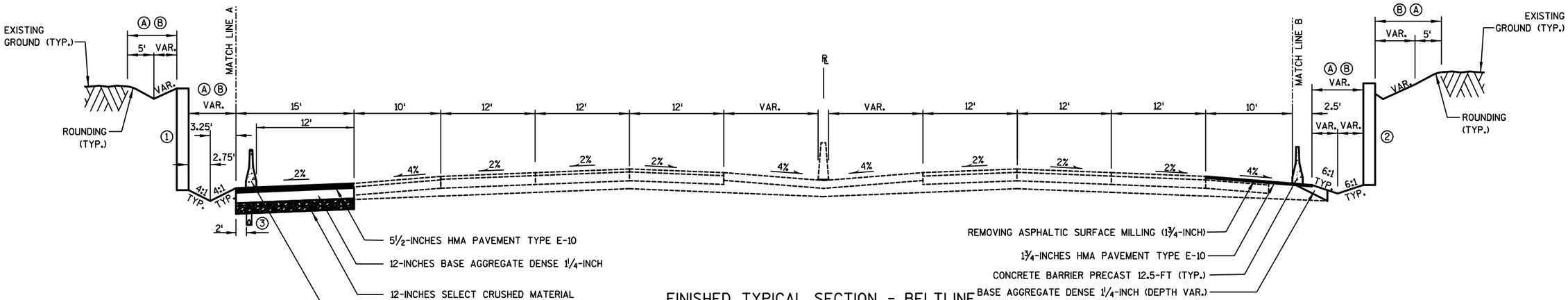


FINISHED MEDIAN TYPICAL SECTION - BELTLINE

STA. 1069+49.3 TO STA. 1070+21.3

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - BELTLINE HIGHWAY	SHEET 16	E

NOTE: SEE CONSTRUCTION STAGING SHEETS FOR ADDITIONAL INFORMATION.



FINISHED TYPICAL SECTION - BELTLINE

STA. 1169+00.5 LT TO STA. 1174+16.7 LT
STA. 1165+45.2 RT TO STA. 1177+20.0 RT

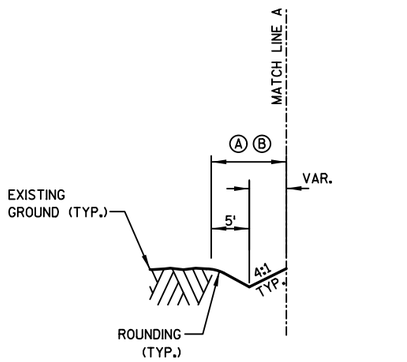
① SEE STRUCTURE R-13-235 PLANS

② SEE STRUCTURE R-13-236 PLANS

③ PIPE UNDERDRAIN 6-INCH (SLOPE 0.5% MIN.) SEE MISCELLANEOUS QUANTITIES AND CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

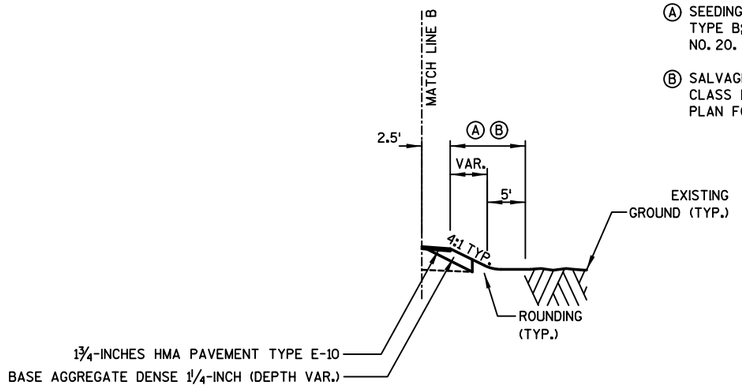
Ⓐ SEEDING TEMPORARY; FERTILIZER TYPE B; AND SEEDING MIXTURE NO. 20.

Ⓑ SALVAGED TOPSOIL AND EROSION MAT CLASS I TYPE B. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.



STA. 1169+00.5 LT TO STA. 1170+00.5 LT

STA. 1171+76.0 LT TO STA. 1174+16.7 LT

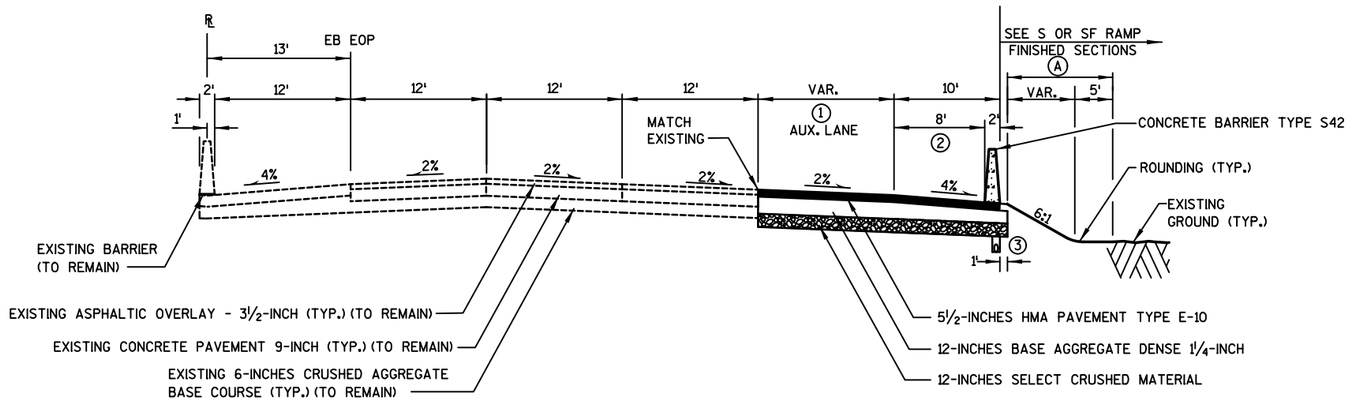


STA. 1165+45.2 RT TO STA. 1167+00.4 RT

STA. 1172+70.4 RT TO STA. 1177+20.0 RT

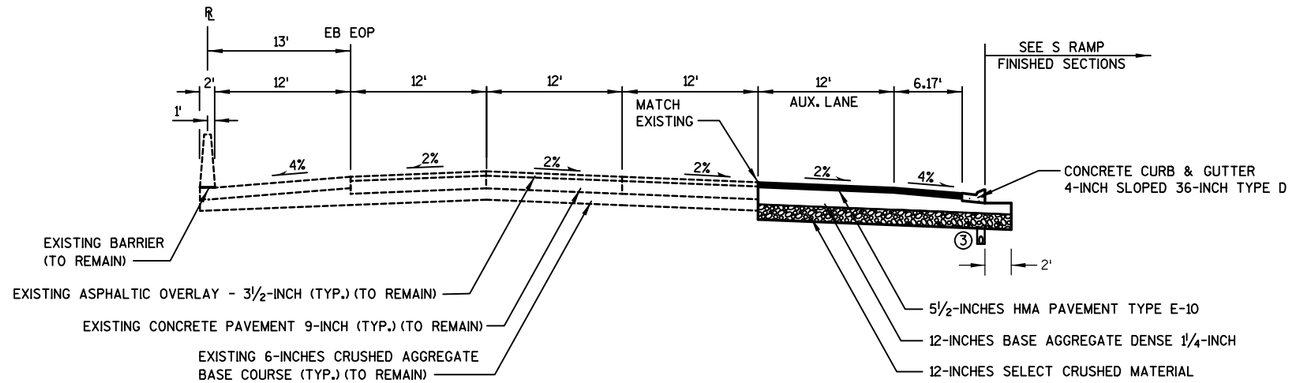
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - BELTLINE HIGHWAY	SHEET 17	E

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.



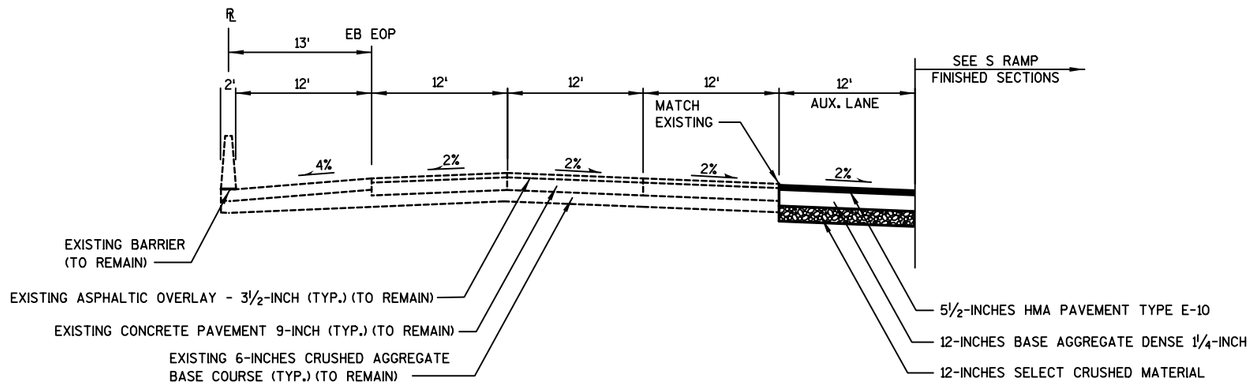
FINISHED TYPICAL - HALF SECTION - BELTLINE EASTBOUND

STA. 1177+20.0 TO STA. 1180+07.6
STA. 1182+12.3 TO STA. 1193+72.6



FINISHED TYPICAL - HALF SECTION - BELTLINE EASTBOUND

STA. 1180+07.6 TO STA. 1180+75.8



FINISHED TYPICAL - HALF SECTION - BELTLINE EASTBOUND

STA. 1180+75.8 TO STA. 1182+12.3

① 12' - STA. 1177+20.0 EB
TO STA. 1180+07.6 EB

VARIES 30' - STA. 1182+12.3
TO 24' - STA. 1185+12.6

24' - STA. 1185+12.6 EB
TO STA. 1190+12.6 EB

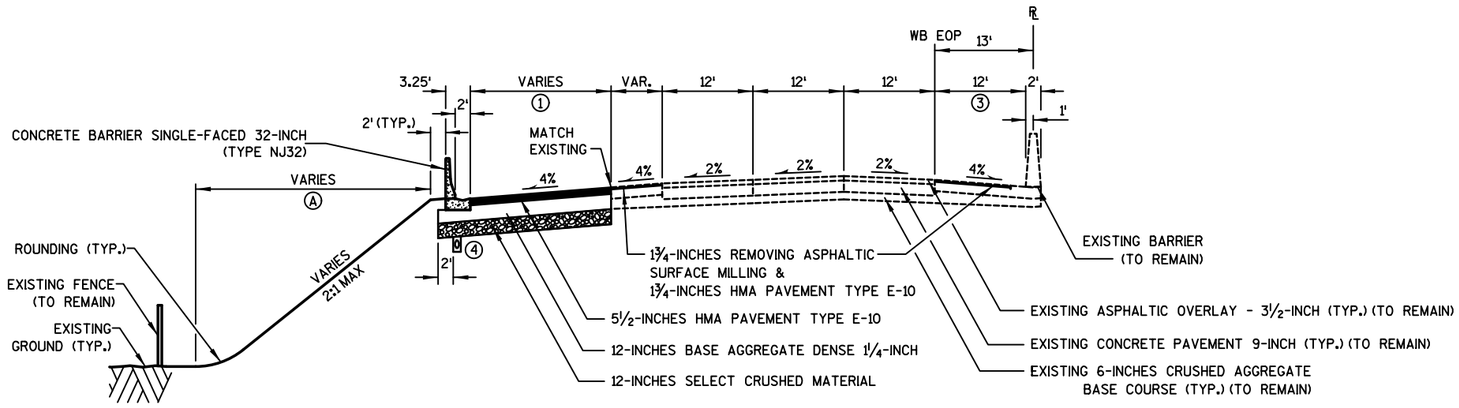
VARIES 24' - STA. 1190+12.6
TO 12' - STA. 1193+72.6

② VARIES 8' - STA. 1193+05.8
TO 10.2' - STA. 1193+72.6

③ PIPE UNDERDRAIN 6-INCH (SLOPE 0.5% MIN.) SEE MISCELLANEOUS QUANTITIES AND CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

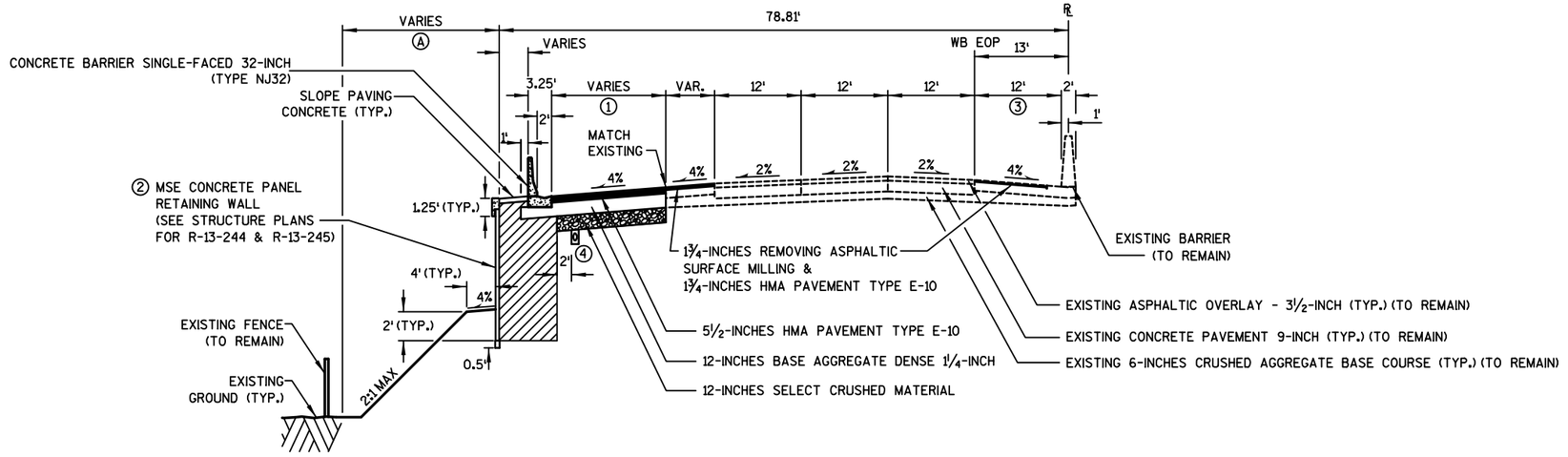
Ⓐ SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; AND EROSION MAT URBAN CLASS 1 TYPE A. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - BELTLINE HIGHWAY	SHEET 18	E



FINISHED TYPICAL - HALF SECTION - BELTLINE WESTBOUND

STA. 1192+58.5 TO STA. 1195+39.1
STA. 1197+05.1 TO STA. 1197+34.1



FINISHED TYPICAL - HALF SECTION - BELTLINE WESTBOUND

STA. 1195+39.1 TO STA. 1197+05.1

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.

① 0' - STA. 1192+58.5 WB
TO STA. 1193+04.2 WB

VARIES 2' - STA. 1193+04.2 WB
TO 18.5' - STA. 1195+99.2 WB

18.5' - STA. 1195+99.2 WB
TO STA. 1196+73.5 WB

VARIES 18.5' - STA. 1196+73.5 WB
TO 2' - STA. 1197+18.1 WB

0' - STA. 1197+18.1 WB
TO STA. 1197+34.1 WB

② SEE R-13-244 STRUCTURE PLANS FROM STA. 1195+39.1 TO STA. 1196+19.1

SEE R-13-245 STRUCTURE PLANS FROM STA. 1196+45.1 TO STA. 1197+05.1

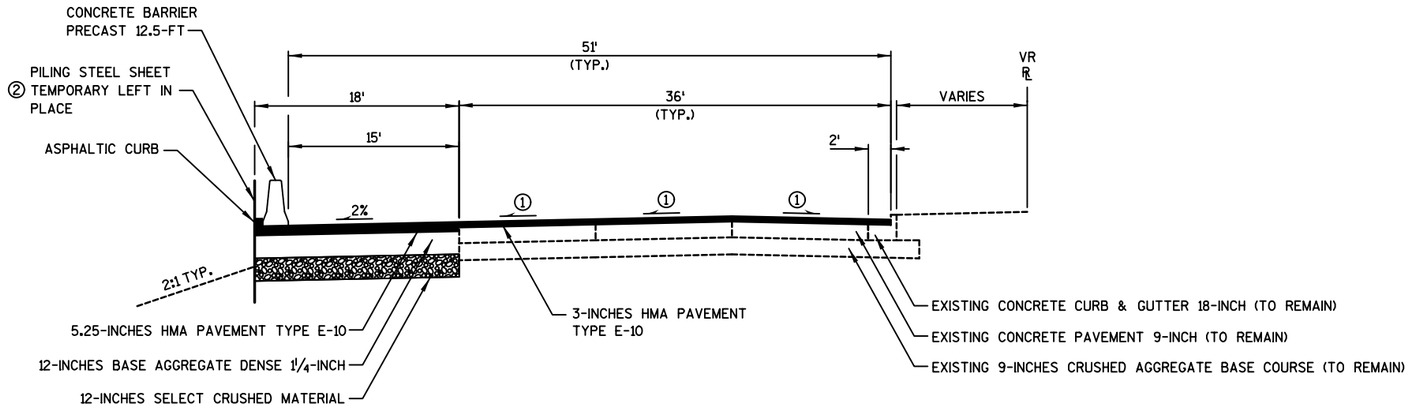
③ STA. 1187+25
TO STA. 1210+00

④ PIPE UNDERDRAIN 6-INCH (SLOPE 0.5% MIN.) SEE MISCELLANEOUS QUANTITIES AND CONSTRUCION DETAILS FOR ADDITIONAL INFORMATION.

Ⓐ SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 20; SALVAGED TOPSOIL; AND EROSION MAT CLASS II TYPE C. SEE EROSION CONTROL PLAN FOR MORE INFORMATION.

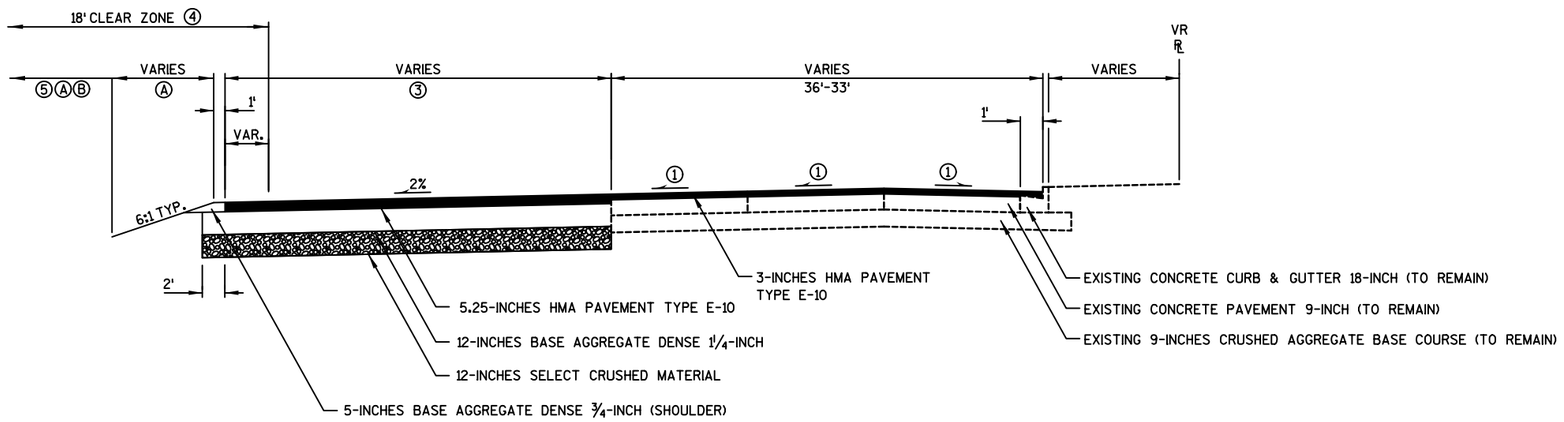
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - BELTLINE HIGHWAY	SHEET 19	E

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.



FINISHED TYPICAL HALF SECTION - VERONA ROAD
WESTBOUND OVERLAY AND TEMPORARY WIDENING

STA. 975+15 VR TO STA. 982+80 VR



FINISHED TYPICAL HALF SECTION - VERONA ROAD
WESTBOUND OVERLAY AND TEMPORARY WIDENING

STA. 982+80 VR TO STA. 986+85 VR

① MATCH EXISTING PAVEMENT CROSS SLOPE.

② SEE STRUCTURE R-13-TEMP PLANS

③ VARIES 18' - STA. 982+80 VR TO 34' - STA. 984+80 VR

④ CLEAR ZONE MEASURED FROM EDGE OF TRAVEL LANE.

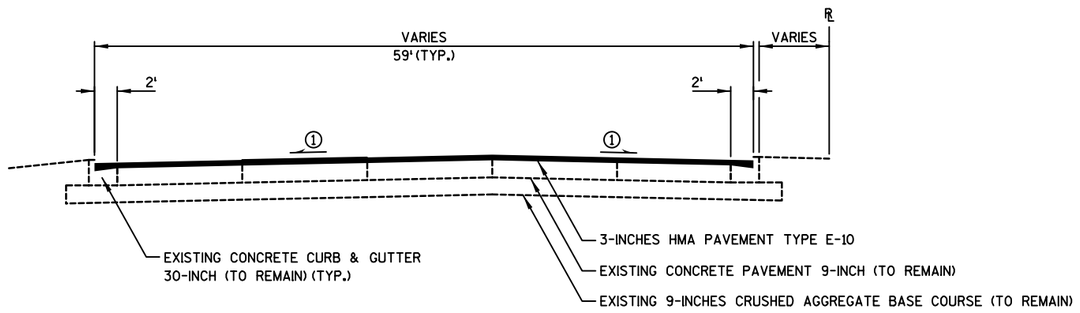
⑤ SEE TEMPORARY STOCKPILE LOCATIONS DETAILS

Ⓐ SEEDING TEMPORARY; FERTILIZER TYPE B; AND SEEDING MIXTURE NO. 20.

Ⓑ SALVAGED TOPSOIL AND EROSION MAT CLASS 1 TYPE B. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - VERONA ROAD (OVERLAY & WIDENING)	SHEET 20	E

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.



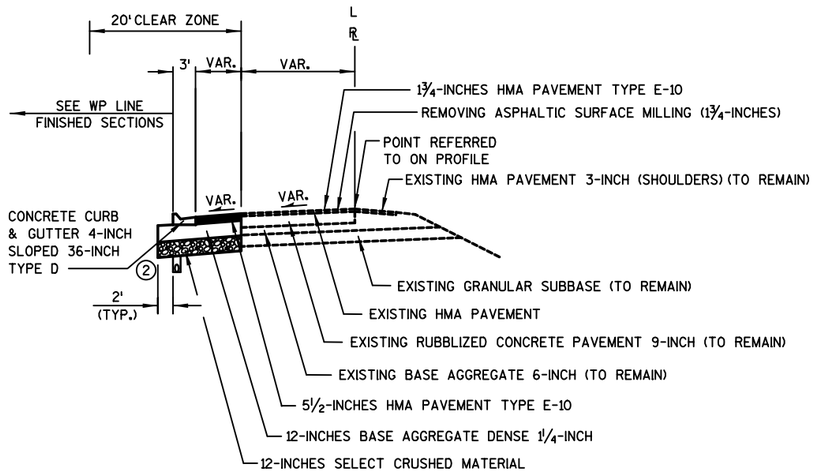
① MATCH EXISTING PAVEMENT CROSS SLOPE.

FINISHED TYPICAL HALF SECTION - VERONA ROAD WESTBOUND OVERLAY AND TEMPORARY WIDENING

STA. 986+85 VR TO STA. 997+80 VR

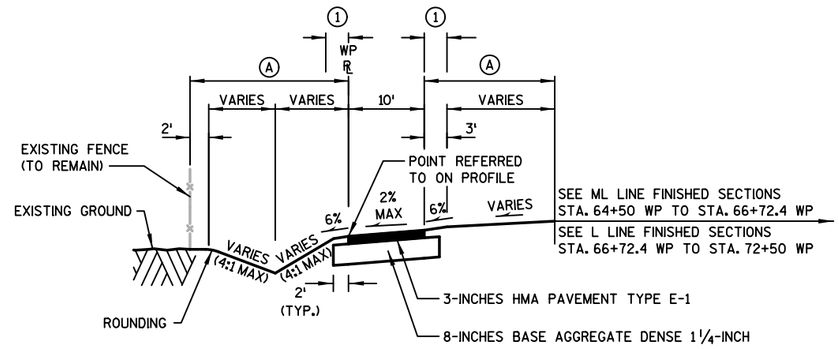
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - VERONA ROAD (OVERLAY & WIDENING)	SHEET 21	E

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.



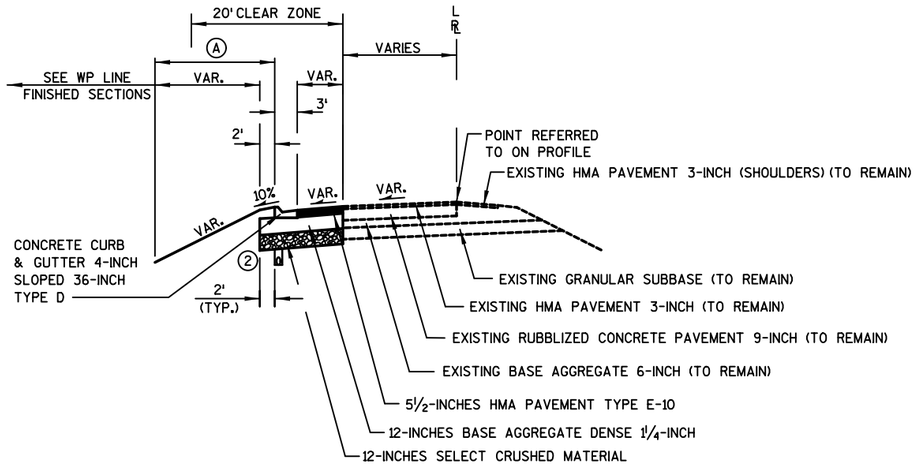
FINISHED TYPICAL SECTION - L RAMP

STA. 66+72.4 L TO STA. 71+80.5 L



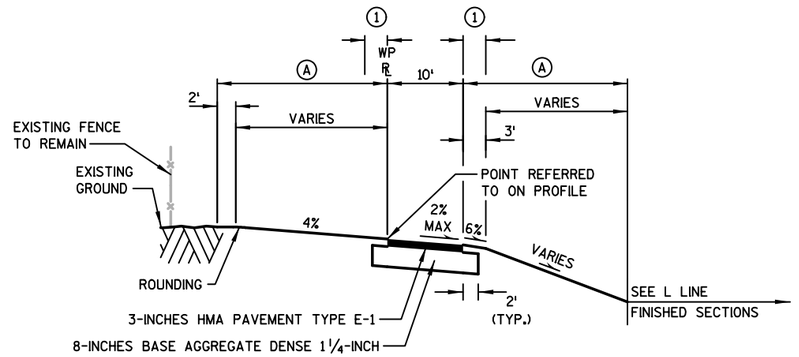
FINISHED TYPICAL SECTION - WHITNEY WAY BIKE PATH

STA. 64+50 WP TO STA. 72+50 WP



FINISHED TYPICAL SECTION - L RAMP

STA. 71+80.5 L TO STA. 76+24.3 L



FINISHED TYPICAL SECTION - WHITNEY WAY BIKE PATH

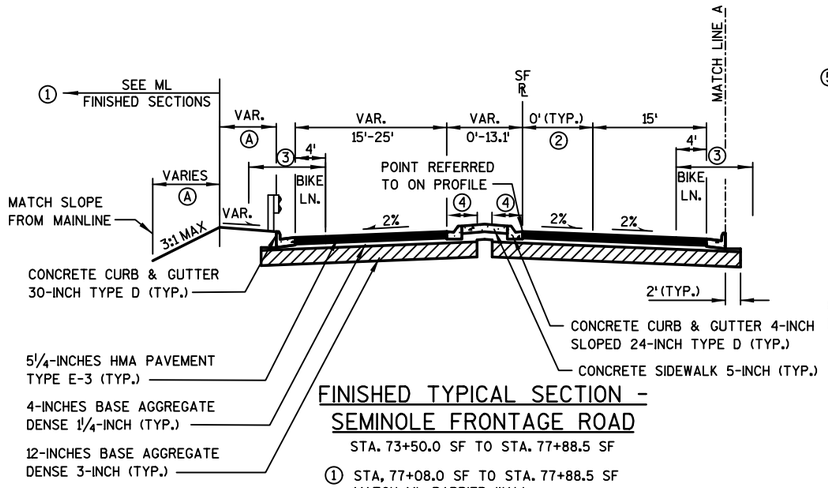
STA. 72+50 WP TO STA. 76+72.9 WP

① 3' CLEAR ZONE

② PIPE UNDERDRAIN 6-INCH (SLOPE 0.5% MIN.) SEE MISCELLANEOUS QUANTITIES AND CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

Ⓐ SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 20; AND EROSION MAT CLASS I TYPE B. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - L RAMP & WHITNEY WAY BIKE PATH	SHEET 22	E



FINISHED TYPICAL SECTION - SEMINOLE FRONTAGE ROAD

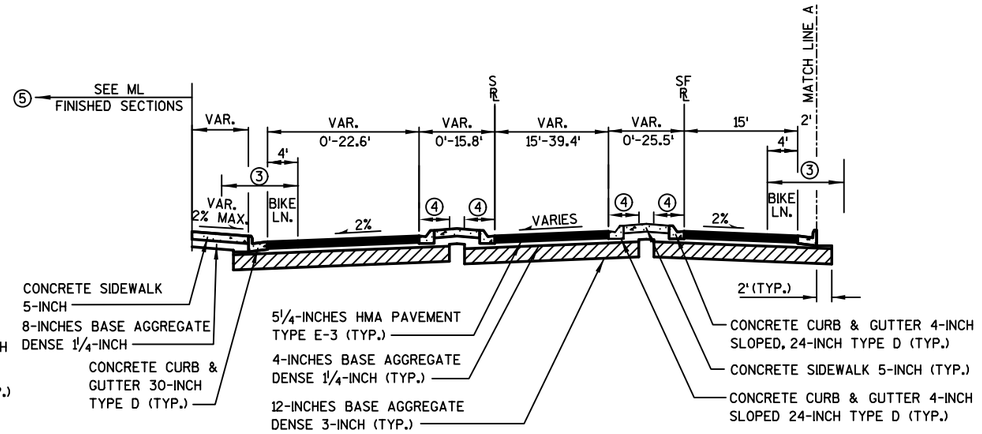
STA. 73+50.0 SF TO STA. 77+88.5 SF

① STA. 77+08.0 SF TO STA. 77+88.5 SF
MATCH ML BARRIER WALL

② VARIES 0' - STA. 75+76.8 SF
TO 22.7' - STA. 77+88.5 SF

③ 8' DES./MIN. LATERAL CLEARANCE
MEASURED FROM EDGE OF DRIVING LANE

④ 4' DES./3' MIN. LATERAL CLEARANCE
MEASURED FROM EDGE OF DRIVING LANE



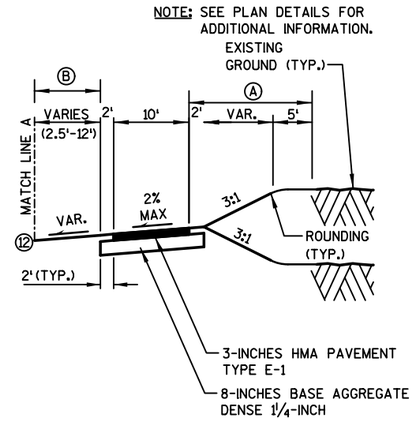
FINISHED TYPICAL SECTION SEMINOLE FRONTAGE ROAD / S RAMP

STA. 77+88.5 SF TO STA. 80+79.4 SF
STA. 1177+95.1 S TO STA. 1180+60.6 S

⑤ STA. 77+88.5 SF TO STA. 80+07.6 SF
MATCH ML BARRIER WALL

STA. 80+07.6 SF TO STA. 80+79.4 SF
MATCH ML BACK OF CURB

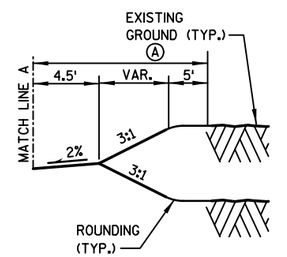
NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.



FINISHED TYPICAL SECTION - SHARED-USE PATH

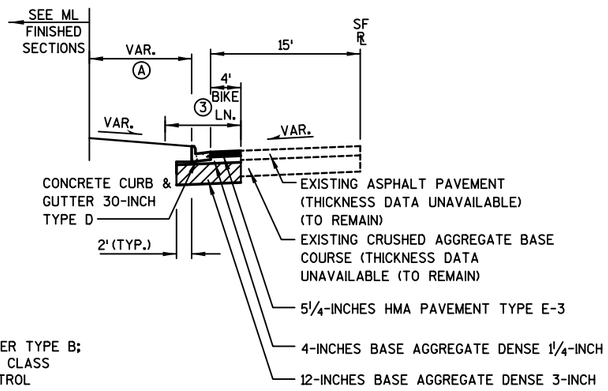
STA. 71+59 SF TO STA. 81+00 SF

⑫ MATCH EXISTING TOP OF CURB
STA. 71+59 TO STA. 72+00



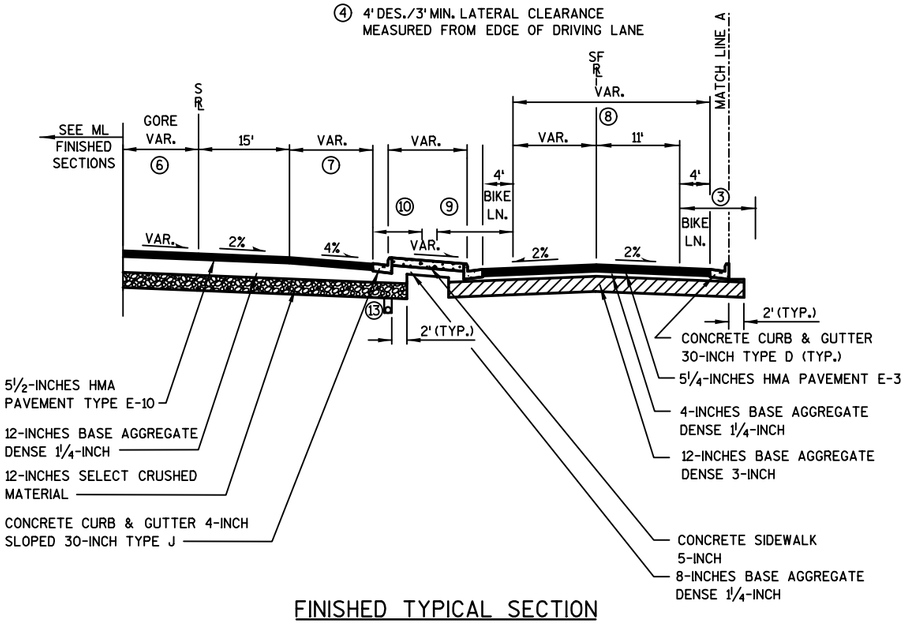
FINISHED TYPICAL SECTION - SLOPE GRADING

STA. 81+00 SF TO STA. 83+75 SF



FINISHED TYPICAL SECTION - SEMINOLE FRONTAGE ROAD

STA. 83+75.0 SF TO STA. 89+50.0 SF



FINISHED TYPICAL SECTION SEMINOLE FRONTAGE ROAD / S RAMP

STA. 80+79.4 SF TO STA. 82+11.6 SF
STA. 1180+60.6 S TO STA. 1182+12.3 S

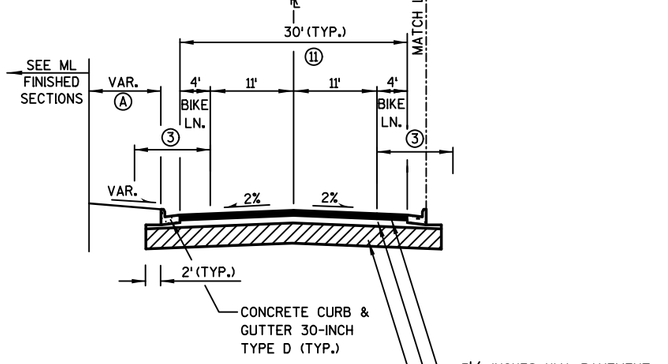
⑥ VARIES 15.5' - STA. 1180+82.9 S
TO 3' - STA. 1182+12.3 S

⑦ VARIES 0' - STA. 1181+09.4 S
TO 6' - STA. 1182+12.3 S

⑧ VARIES 37.7' - STA. 80+79.4 SF
TO 32.1' - STA. 82+11.6 SF

⑨ 8.2' DES./MIN. LATERAL CLEARANCE
MEASURED FROM EDGE OF DRIVING LANE

⑩ 4.2' DES/MIN. LATERAL CLEARANCE
MEASURED FROM EDGE OF DRIVING LANE



FINISHED TYPICAL SECTION SEMINOLE FRONTAGE ROAD

STA. 82+11.6 SF TO STA. 83+75.0 SF

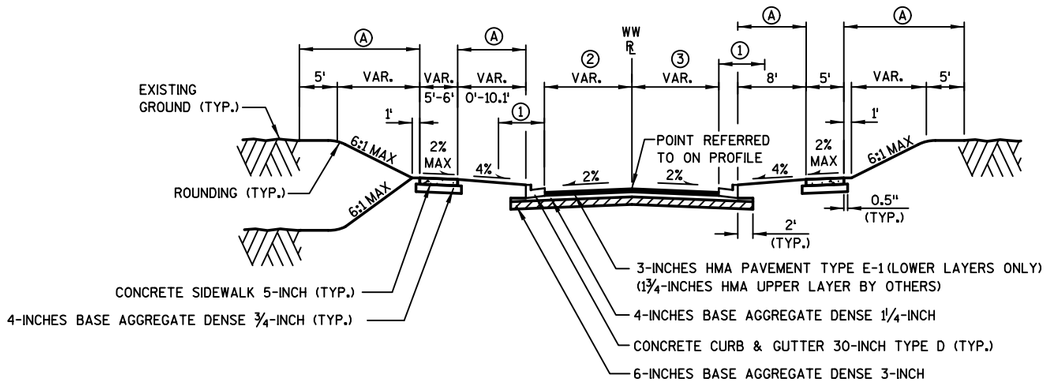
⑪ VARIES 32.1' - STA. 82+11.6 SF
TO 30' - STA. 82+76.8 SF

⑬ PIPE UNDERDRAIN 6-INCH
(SLOPE 0.5% MIN.) SEE
MISCELLANEOUS QUANTITIES
AND CONSTRUCTION DETAILS
FOR ADDITIONAL INFORMATION.

Ⓐ SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B;
SEEDING MIXTURE 20; AND EROSION CONTROL MAT CLASS
1 TYPE B OR CLASS 2 TYPE C. SEE EROSION CONTROL
PLAN FOR ADDITIONAL INFORMATION.

Ⓑ SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B;
SEEDING MIXTURE 40; AND EROSION CONTROL MAT
URBAN CLASS 1 TYPE A. SEE EROSION CONTROL
PLAN FOR ADDITIONAL INFORMATION.

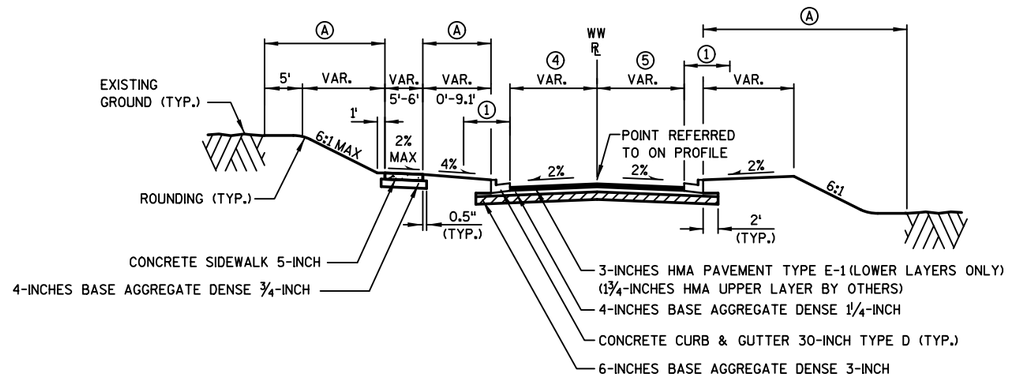
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - SF LINE AND S RAMP	SHEET 23	E



FINISHED TYPICAL SECTION - WARWICK WAY

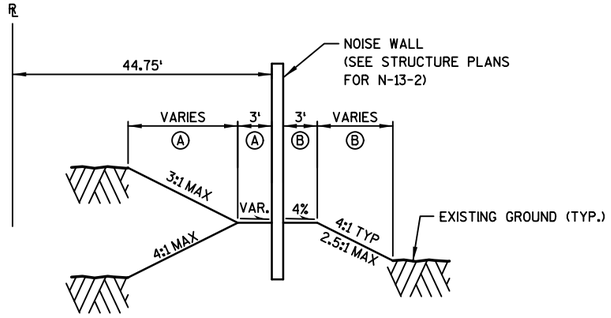
STA. 50+75.0 WW TO STA. 51+72.1 WW

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.



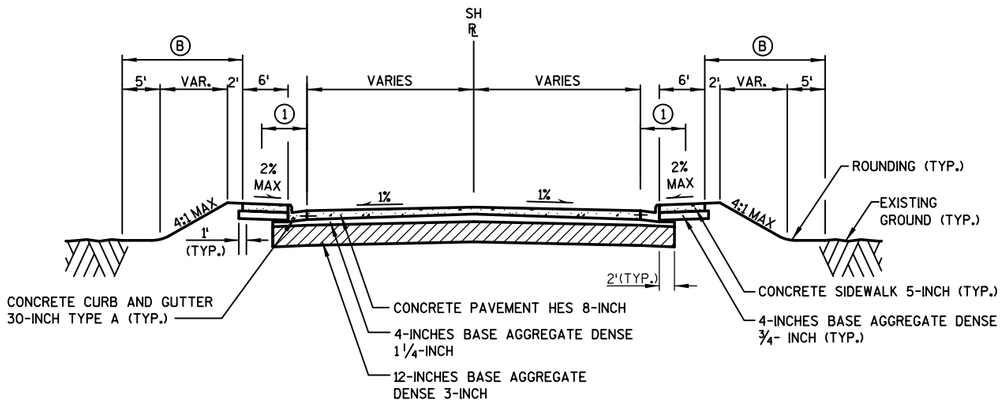
FINISHED TYPICAL SECTION - WARWICK WAY

STA. 51+72.1 WW TO STA. 53+50.0 WW



FINISHED TYPICAL SECTION - WARWICK WAY NOISE WALL N-13-2

STA. 54+00.0 WW TO STA. 63+50.0 WW



FINISHED TYPICAL SECTION - SEMINOLE HIGHWAY

STA. 8+98 SH TO STA. 9+16 SH
STA. 10+88 SH TO STA. 11+06 SH

① 4' DES./MIN. LATERAL CLEARANCE MEASURED FROM EDGE OF DRIVING LANE.

② 13' - STA. 50+75 WW TO STA. 51+00.0 WW

VARIES 13' - STA. 51+00.0 WW TO 12' STA. 51+42.8 WW

12' - STA. 51+42.8 WW TO STA. 51+72.1 WW

③ 13' - STA. 50+75 WW TO STA. 51+00.0 WW

VARIES 13' - STA. 51+00.0 WW TO 12' STA. 51+45.3 WW

12' - STA. 51+45.3 WW TO STA. 51+72.1 WW

④ 12' - STA. 51+72.1 WW TO STA. 52+72.6 WW

VARIES 12' - STA. 52+72.6 WW TO 13.5' - STA. 53+34.3 WW

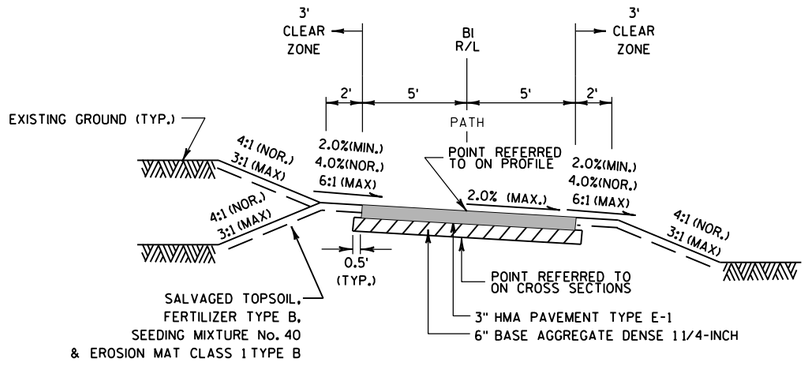
⑤ 12' - STA. 51+72.1 WW TO STA. 52+67.3 WW

VARIES 12' - STA. 52+67.3 WW TO 13.5' STA. 53+34.9 WW

13.5' - STA. 53+34.9 WW TO STA. 53+50.0 WW

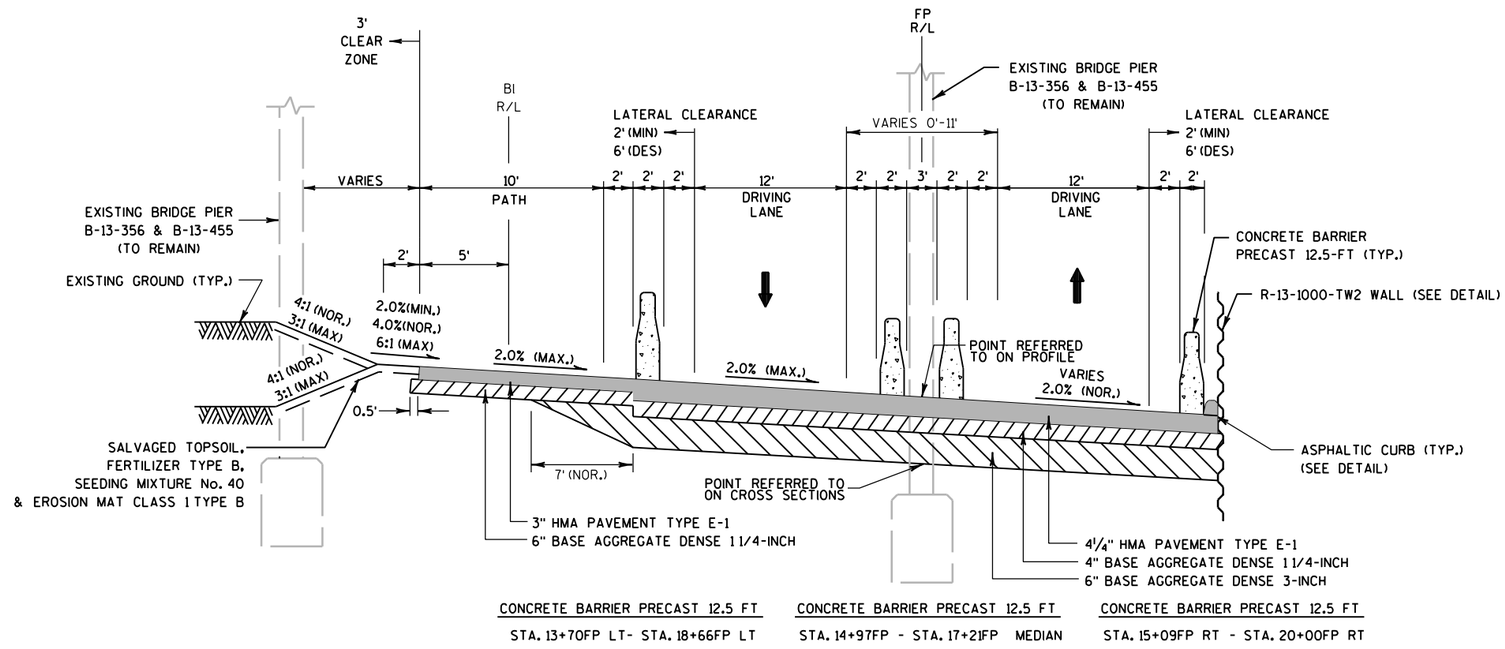
Ⓐ SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; AND EROSION MAT URBAN CLASS 1 TYPE A. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION

Ⓑ SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 20; AND EROSION MAT CLASS 1 TYPE B. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION



TYPICAL FINISHED SECTION, SW COMMUTER BIKE PATH TEMP

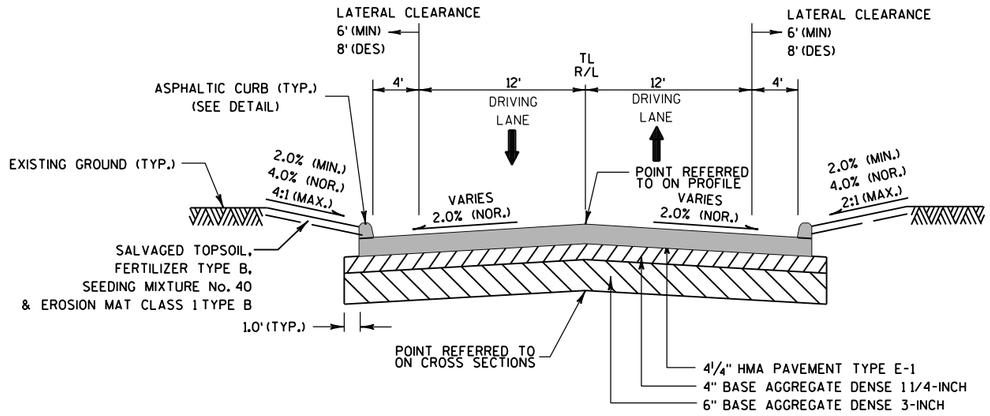
STA. 9+99.04BI - STA. 15+74.96BI



CONCRETE BARRIER PRECAST 12.5 FT	CONCRETE BARRIER PRECAST 12.5 FT	CONCRETE BARRIER PRECAST 12.5 FT
STA. 13+70FP LT- STA. 18+66FP LT	STA. 14+97FP - STA. 17+21FP MEDIAN	STA. 15+09FP RT - STA. 20+00FP RT

TYPICAL FINISHED SECTION, FREEPORT CONNECTION TEMP

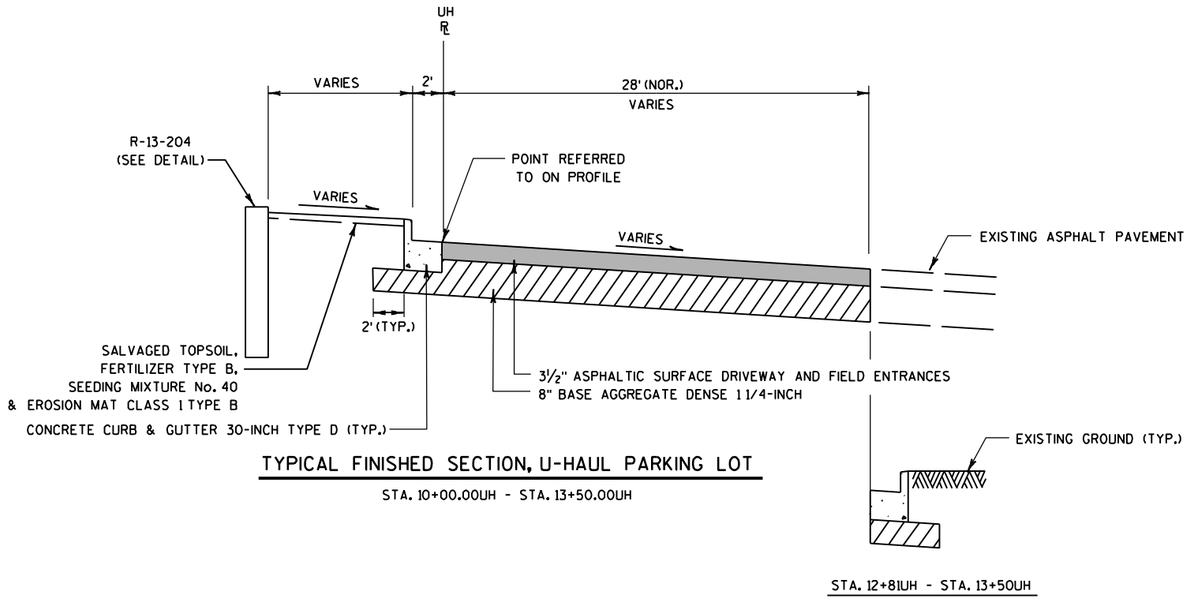
STA. 13+37.24FP - STA. 20+09.03FP



TYPICAL FINISHED SECTION, FREEPORT CONNECTION TEMP

STA. 11+70.56FP - STA. 13+37.24FP
STA. 20+09.03FP - STA. 20+79.57FP

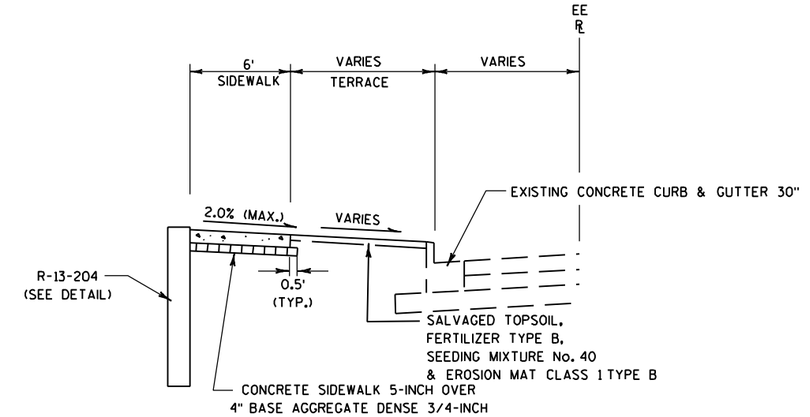
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TYPICAL FINISHED SECTIONS	SHEET 25	E



TYPICAL FINISHED SECTION, U-HAUL PARKING LOT

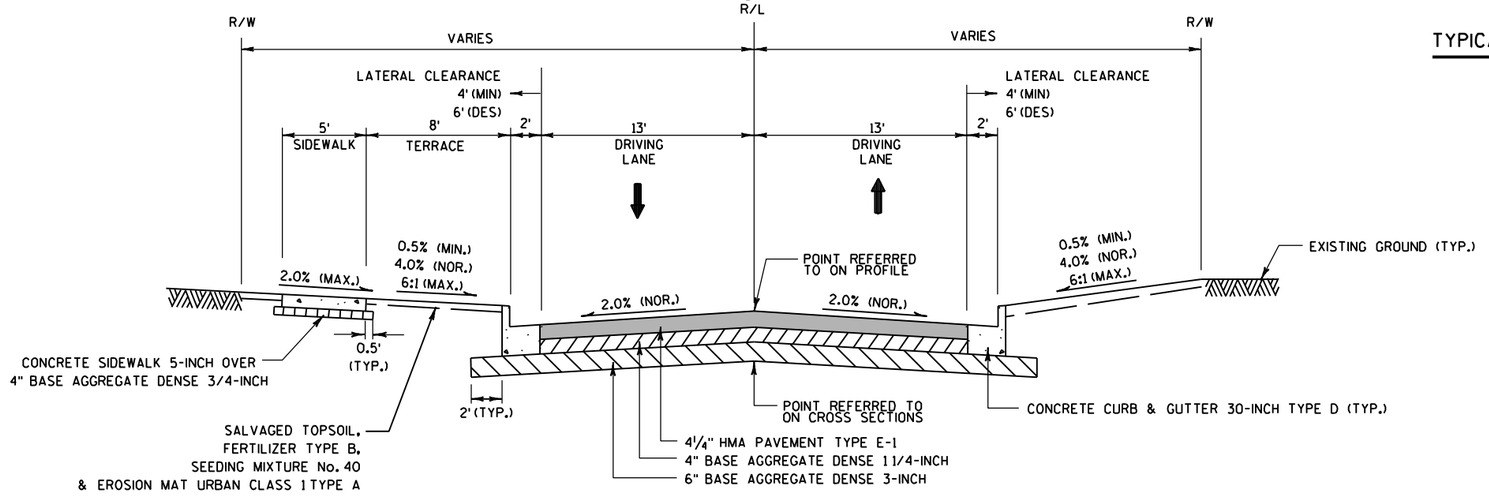
STA. 10+00.00UH - STA. 13+50.00UH

STA. 12+81UH - STA. 13+50UH



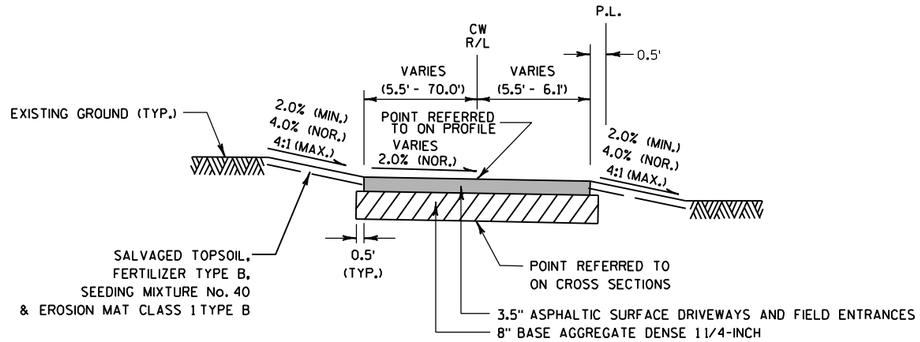
TYPICAL FINISHED SECTION, WEST VERONA ROAD FRONTAGE ROAD

STA. 93+59EE - STA. 98+47EE



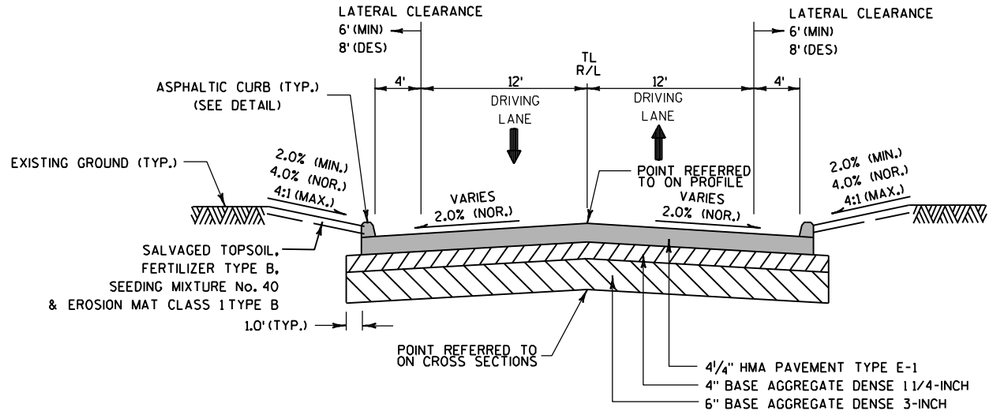
TYPICAL FINISHED SECTION, BRITTA PARKWAY

STA. 17+96.00BP - STA. 19+81.00BP



TYPICAL FINISHED SECTION, CARLING DRIVEWAY

STA. 10+05.59CW - STA. 11+73.03CW

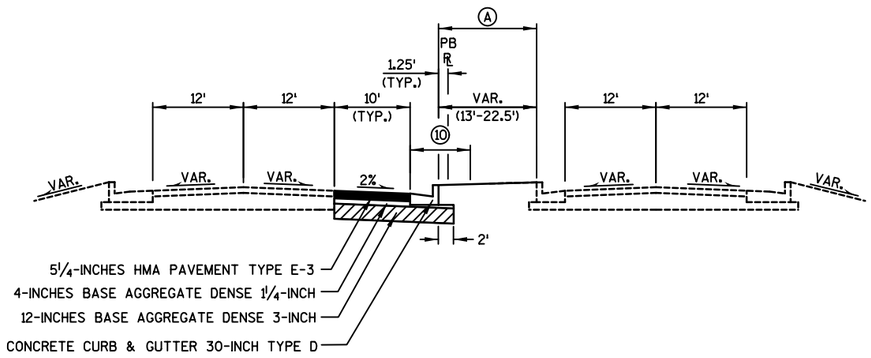


TYPICAL FINISHED SECTION, THURSTON LANE TEMP

STA. 10+16.00TL - STA. 11+00.35TL

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TYPICAL FINISHED SECTIONS	SHEET 27	E

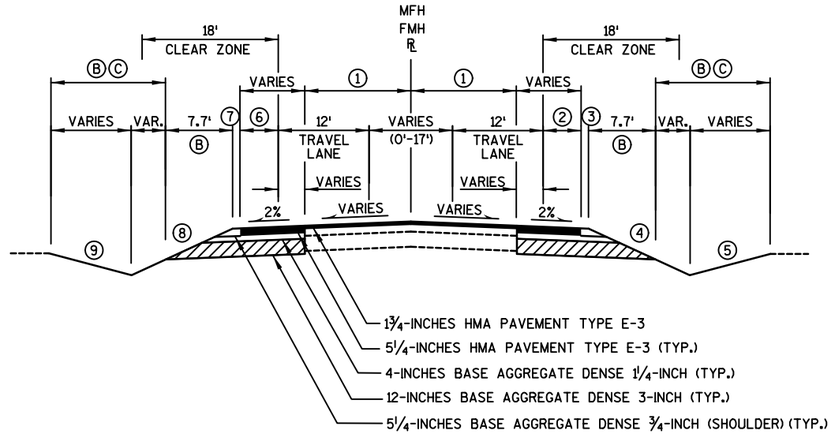
CTH PB & CTH M INTERSECTION



CTH PB (NORTH OF CTH M)

STA. 101+53.6 PB TO STA. 105+25.5 PB

CTH M & FISH HATCHERY ROAD (CTH D) INTERSECTION



CTH M & FISH HATCHERY ROAD (CTH D)

STA. 93+29.8 MFH TO STA. 105+55.9 MFH
STA. 95+07.8 FHM TO STA. 105+70.5 FHM

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.

(1) CTH M - VARIES, 15'-24'
FISH HATCHERY ROAD (CTH D) - 11'

(2) CTH M - 5'
FISH HATCHERY ROAD (CTH D) 6'

(3) CTH M - 1'
FISH HATCHERY ROAD (CTH D) SOUTH OF CTH M - 2'
FISH HATCHERY ROAD (CTH D) NORTH OF CTH M - 4'

(4) CTH M - 4:1
FISH HATCHERY ROAD (CTH D) - 6:1

(5) CTH M - 6:1
FISH HATCHERY ROAD (CTH D) - 4:1

(6) CTH M - 5'
FISH HATCHERY ROAD (CTH D) SOUTH OF CTH M - 5'
FISH HATCHERY ROAD (CTH D) NORTH OF CTH M - 6'

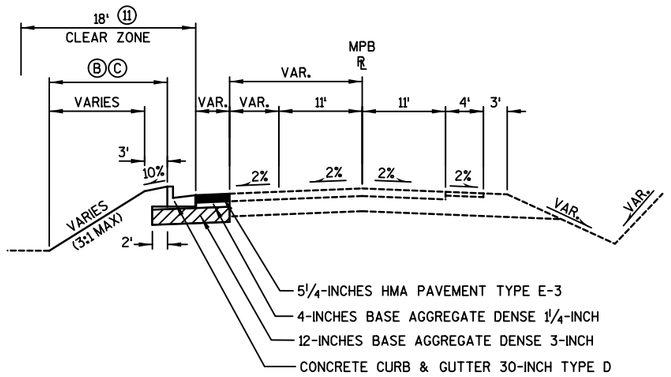
(7) CTH M - 1'
FISH HATCHERY ROAD (CTH D) SOUTH OF CTH M - 1'
FISH HATCHERY ROAD (CTH D) NORTH OF CTH M - 4'

(8) CTH M - 4:1
FISH HATCHERY ROAD (CTH D) SOUTH OF CTH M - 4:1
FISH HATCHERY ROAD (CTH D) NORTH OF CTH M - 6:1

(9) CTH M - 6:1
FISH HATCHERY ROAD (CTH D) SOUTH OF CTH M - 6:1
FISH HATCHERY ROAD (CTH D) NORTH OF CTH M - 4:1

(10) 4' DES./MIN. LATERAL CLEARANCE MEASURED FROM EDGE OF DRIVING LANE.

(11) CLEAR ZONE MEASURED FROM EDGE OF TRAVEL LANE.



CTH M

STA. 101+14.6 MPB TO STA. 103+74.8 MPB

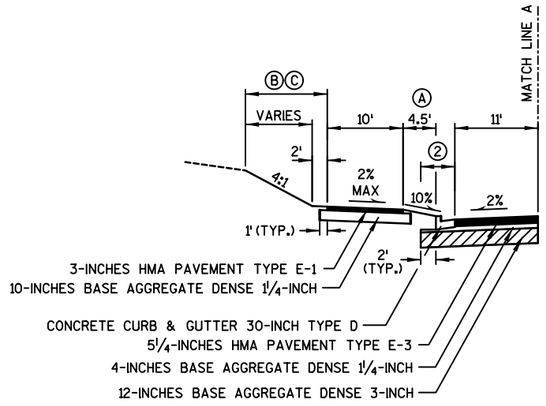
(A) SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; AND EROSION MAT URBAN CLASS 1 TYPE A. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.

(B) SEEDING TEMPORARY; FERTILIZER TYPE B; AND SEEDING MIXTURE NO. 20.

(C) SALVAGED TOPSOIL AND EROSION MAT CLASS 1 TYPE B. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.

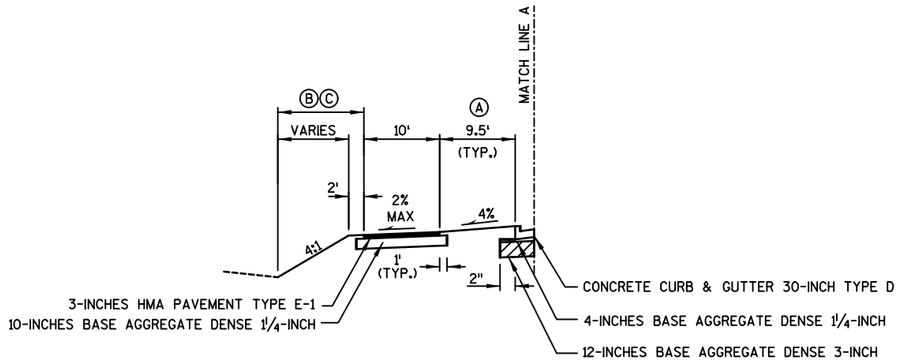
FISH HATCHERY ROAD (CTH D) & WHALEN ROAD INTERSECTION

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.



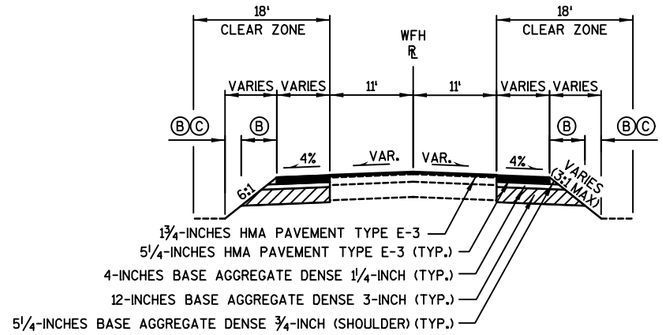
FISH HATCHERY ROAD (CTH D)

STA. 100+20.7 FHW TO STA. 102+99.7 FHW



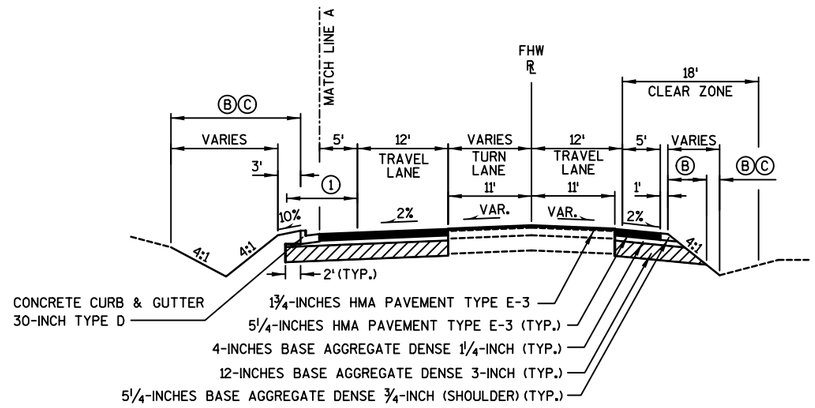
FISH HATCHERY ROAD (CTH D)

STA. 102+99.7 FHW TO STA. 105+50.0 FHW



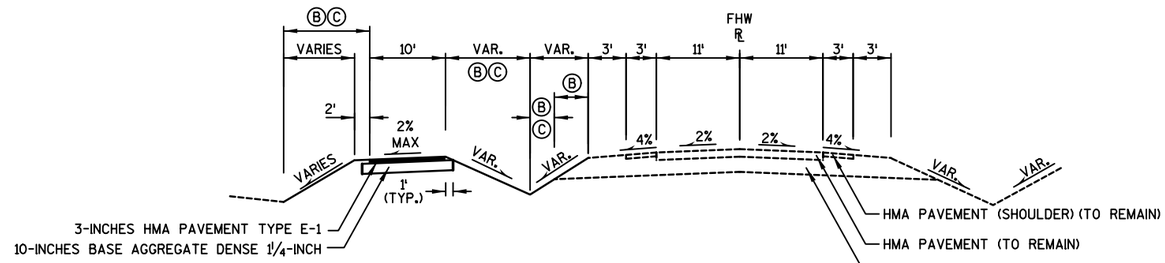
WHALEN ROAD

STA. 97+37.4 WFH TO STA. 100+64.1 WFH



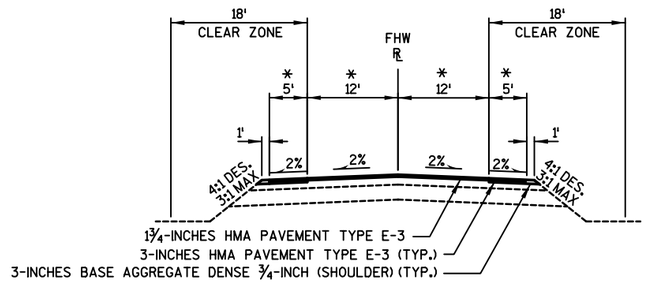
FISH HATCHERY ROAD (CTH D)

STA. 95+83.6 FHW TO STA. 106+27.0 FHW



FISH HATCHERY ROAD (CTH D)

STA. 106+27.0 FHW TO STA. 108+58.3 FHW



FISH HATCHERY ROAD (CTH D)

STA. 105+50 FHW TO SHAMROCK LANE

* HMA PAVEMENT TYPE E-3 SHALL BE PAVED IN ONE LIFT. SHOULDER AND TRAVEL LANE SHALL BE PAVED CONCURRENTLY.

(1) 9' DES./MIN. LATERAL CLEARANCE MEASURED FROM EDGE OF DRIVING LANE.

(2) 4' DES./MIN. LATERAL CLEARANCE MEASURED FROM EDGE OF DRIVING LANE.

(A) SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; AND EROSION MAT URBAN CLASS 1 TYPE A. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION

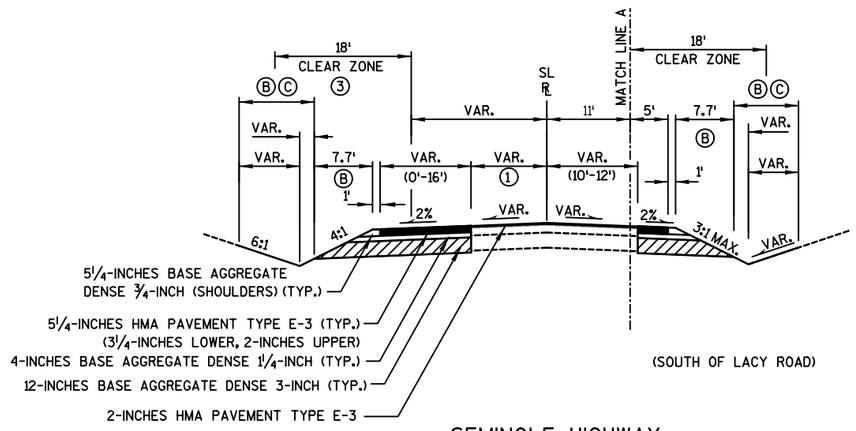
(B) SEEDING TEMPORARY; FERTILIZER TYPE B; AND SEEDING MIXTURE NO. 20.

(C) SALVAGED TOPSOIL AND EROSION MAT CLASS 1 TYPE B. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - INTERSECTION IMPROVEMENTS	SHEET 29	E

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.

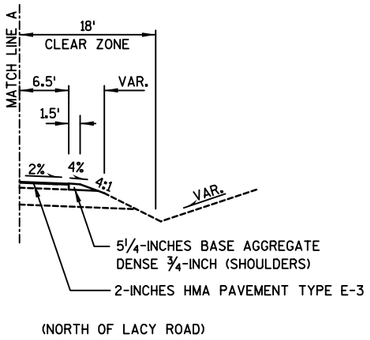
SEMINOLE HIGHWAY & LACY ROAD INTERSECTION



(SOUTH OF LACY ROAD)

SEMINOLE HIGHWAY

STA. 90+53.8 SL TO STA. 107+02.9 SL



(NORTH OF LACY ROAD)

① 12' NORTH OF LACY ROAD
VARIES 10'-12' SOUTH OF LACY ROAD

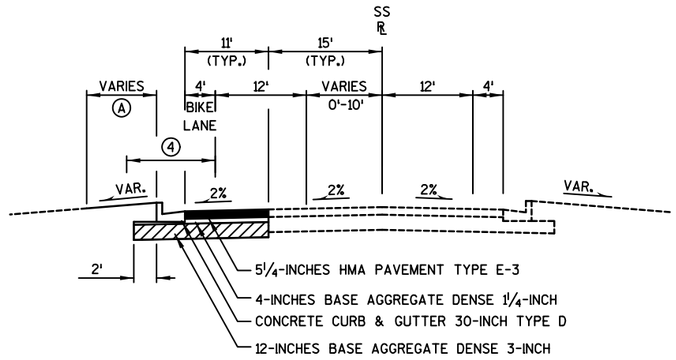
② REVERSED FOR WESTBOUND SHOULDER ON LACY ROAD

③ CLEAR ZONE BEGINS AT EDGE OF TRAVEL LANE

④ 8' DES. / MIN. LATERAL CLEARANCE MEASURED FROM EDGE OF TRAVEL LANE

⑤ 4' DES. / MIN. LATERAL CLEARANCE MEASURED FROM EDGE OF TRAVEL LANE

SEMINOLE HIGHWAY & SENTINEL PASS INTERSECTION



SEMINOLE HIGHWAY (SOUTH OF SENTINEL PASS)

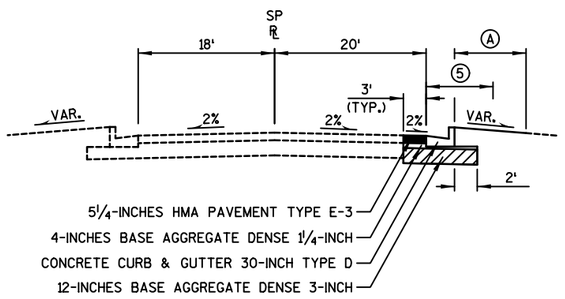
STA. 95+87.5 SS TO STA. 100+00.0 SS

SEMINOLE HIGHWAY (NORTH OF SENTINEL PASS)

STA. 100+00.0 SS TO STA. 103+27.4 SS

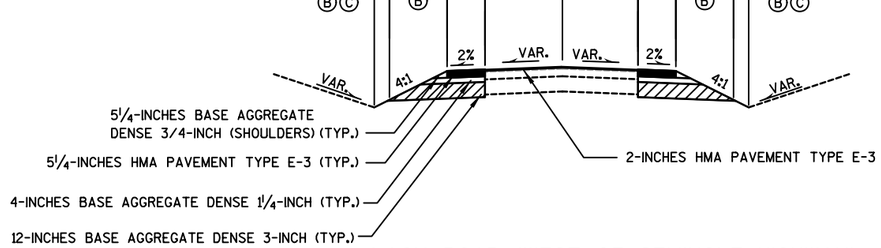
SENTINEL PASS

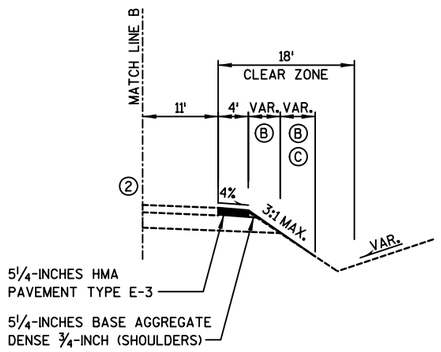
STA. 97+07.4 SP TO STA. 100+00.0 SP



LACY ROAD (WEST OF SEMINOLE HIGHWAY)

STA. 96+86.5 LR TO STA. 100+00.0 LR

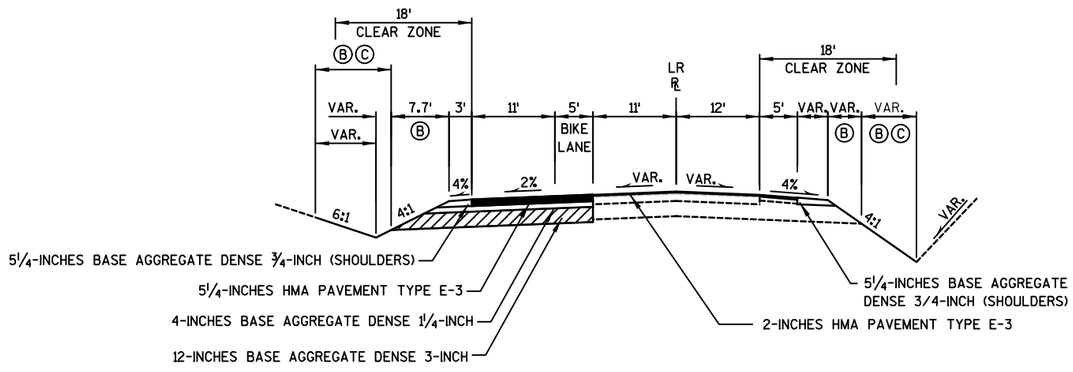




STA. 96+85 LR TO STA. 98+50 LR

LACY ROAD (EAST OF SEMINOLE HIGHWAY)

STA. 100+00.0 LR TO STA. 103+51.8 LR



Ⓐ SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; AND EROSION MAT URBAN CLASS 1 TYPE A. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.

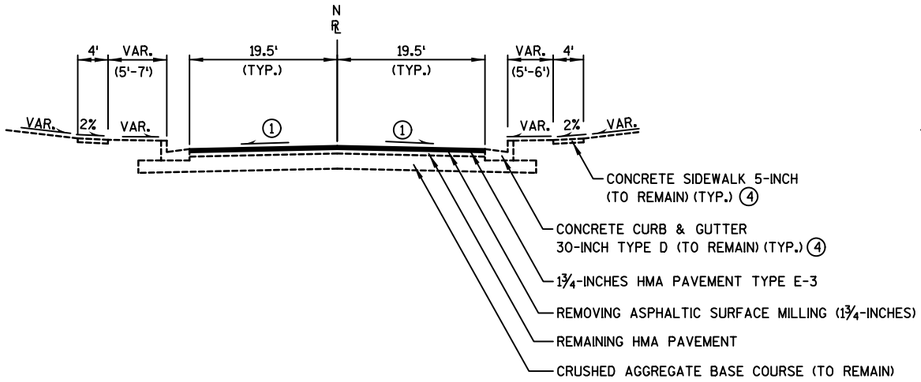
Ⓑ SEEDING TEMPORARY; FERTILIZER TYPE B; AND SEEDING MIXTURE NO. 20.

Ⓒ SALVAGED TOPSOIL AND EROSION MAT CLASS 1 TYPE B. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - INTERSECTION IMPROVEMENTS	SHEET 30	E

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.

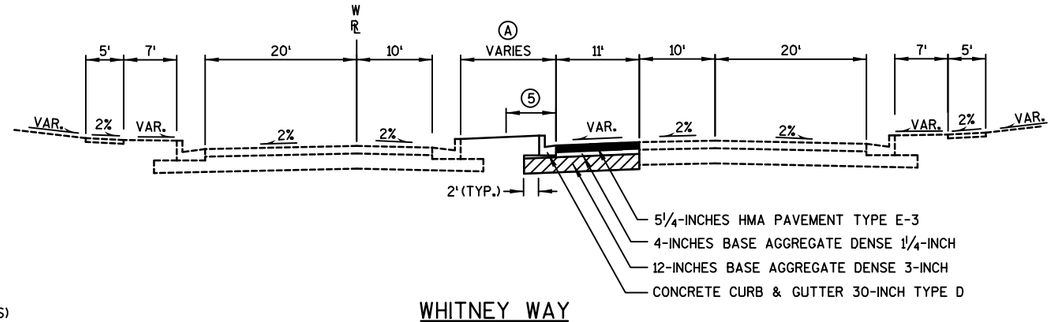
SEMINOLE HIGHWAY / YUMA DRIVE & NAKOMA ROAD INTERSECTION



SEMINOLE HIGHWAY / YUMA DRIVE & NAKOMA ROAD

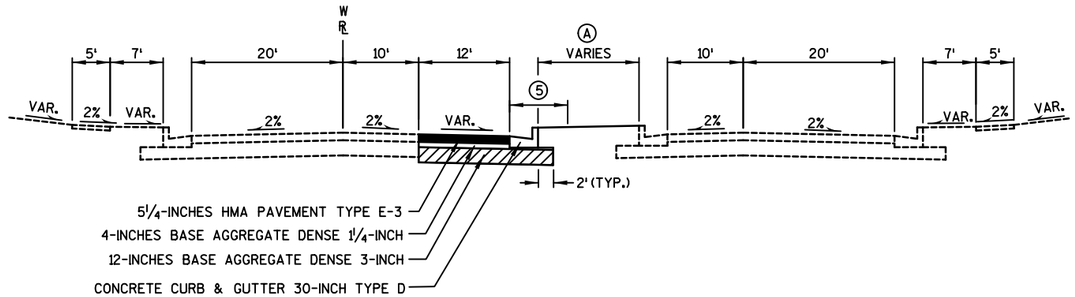
STA. 98+70.9 N TO STA. 100+68.6 N ②
STA. 99+14.1 SN TO STA. 100+66.1 SN ③

WHITNEY WAY & GILBERT ROAD INTERSECTION



WHITNEY WAY

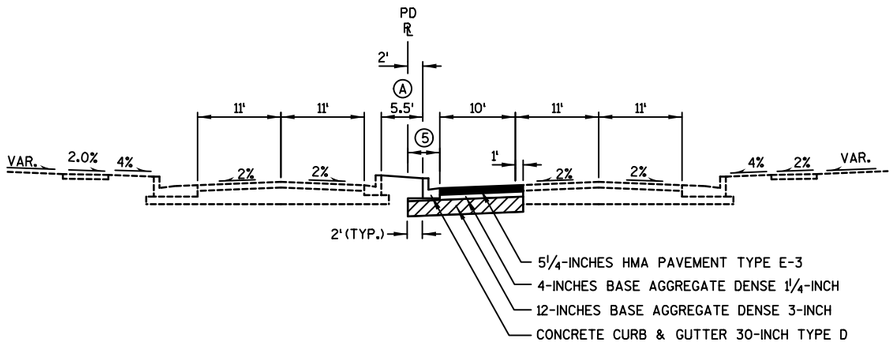
STA. 97+11.8 W TO STA. 98+60.0 W



WHITNEY WAY

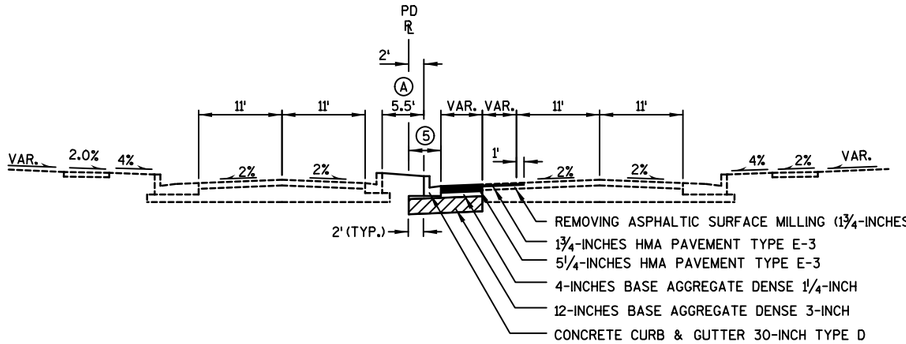
STA. 100+00.0 W TO STA. 102+62.1 W

McKEE ROAD (CTH PD) & SEMINOLE HIGHWAY INTERSECTION



McKEE ROAD (CTH PD)

STA. 93+46.6 PD TO STA. 96+28.59 PD



McKEE ROAD (CTH PD)

STA. 96+28.59 PD TO STA. 98+00.0 PD

① MATCH EXISTING PAVEMENT CROSS SLOPE.

② REFER TO REHABILITATION/TRAFFIC CONTROL FOR EXISTING CURBED MEDIAN REMOVAL AND FULL DEPTH PAVEMENT STRUCTURE REPLACEMENT LOCATIONS.

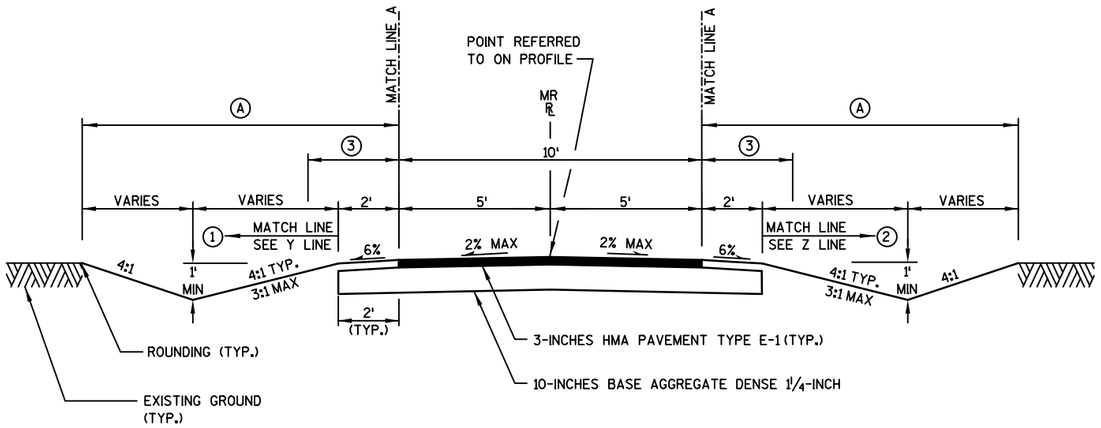
③ REFER TO REHABILITATION/TRAFFIC CONTROL FOR FULL DEPTH PAVEMENT STRUCTURE REPLACEMENT LOCATIONS. 5¼-INCHES HMA PAVEMENT E-3 OVER 4-INCHES BASE AGGREGATE DENSE 1¼-INCH OVER 12-INCHES BASE AGGREGATE DENSE 3-INCH.

④ REFER TO PLAN DETAILS FOR CONCRETE SIDEWALK 5-INCH AND CONCRETE CURB & GUTTER 30-INCH TYPE D SPOT REPLACEMENT LOCATIONS. REFER TO Ⓐ BELOW FOR RELATED FINISHING ITEMS.

⑤ 4' DES. / MIN. LATERAL CLEARANCE MEASURED FROM EDGE OF DRIVING LANE.

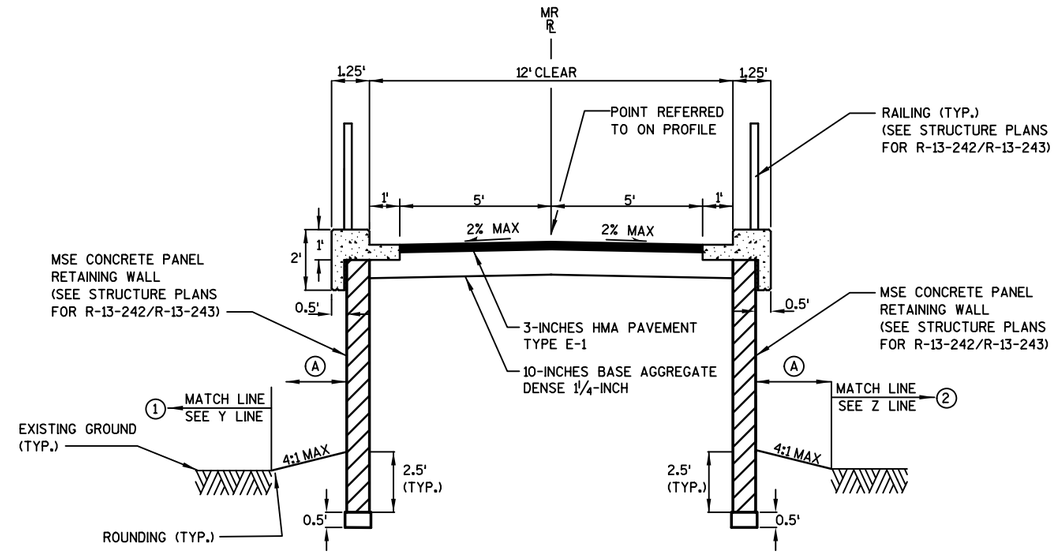
Ⓐ SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; AND EROSION MAT URBAN CLASS 1 TYPE A. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - INTERSECTION IMPROVEMENTS	SHEET 31	E



FINISHED TYPICAL SECTION - MILITARY RIDGE PATH

STA. 93+00.0 MR TO STA. 96+55.4 MR LT ; STA. 104+94.8 MR TO STA. 107+00.0 MR LT
STA. 93+00.0 MR TO STA. 94+76.6 MR RT ; STA. 103+75.5 MR TO STA. 107+00.0 MR RT



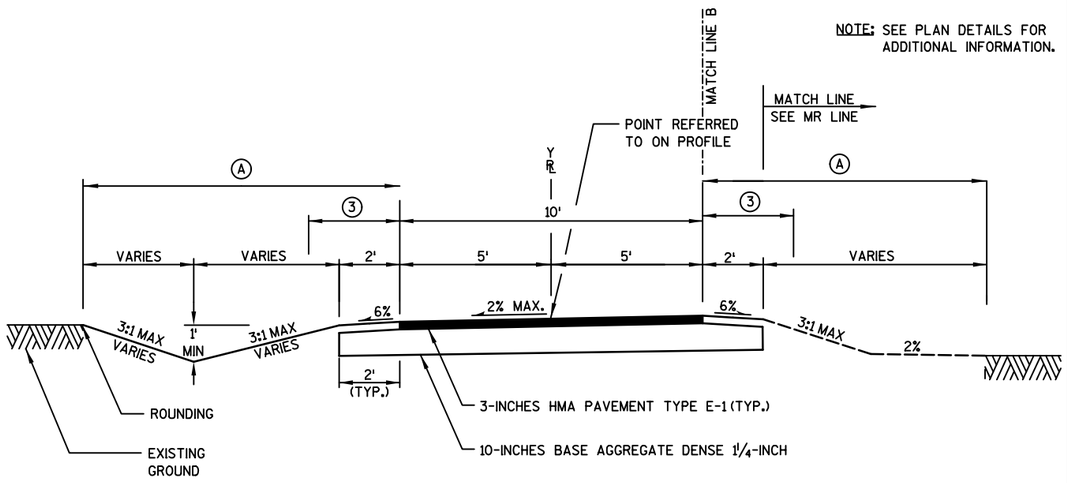
FINISHED TYPICAL SECTION - MILITARY RIDGE PATH

STA. 96+55.4 MR TO STA. 96+82.5 MR LT ; STA. 101+56.5 MR TO STA. 104+94.8 MR LT
STA. 94+76.6 MR TO STA. 96+82.5 MR RT ; STA. 101+56.5 MR TO STA. 103+75.5 MR RT

(1) SEE Y LINE STA. 95+72.0 MR TO STA. 98+66.2 MR
(2) SEE Z LINE STA 101+35.1 MR TO STA. 104+28.7 MR
(3) 3' CLEAR ZONE

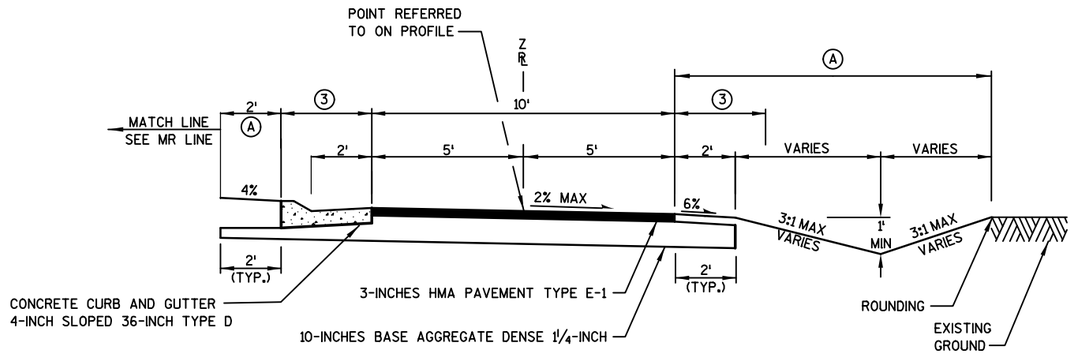
(A) SALVAGED TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; AND EROSION MAT URBAN CLASS I TYPE A. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION.



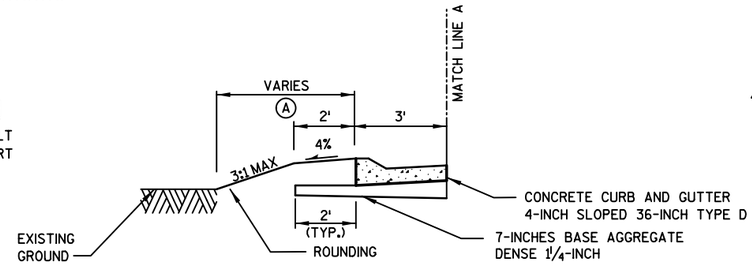
FINISHED TYPICAL SECTION - MILITARY RIDGE Y LINE

STA. 10+05.0 Y TO STA. 13+84.1 Y



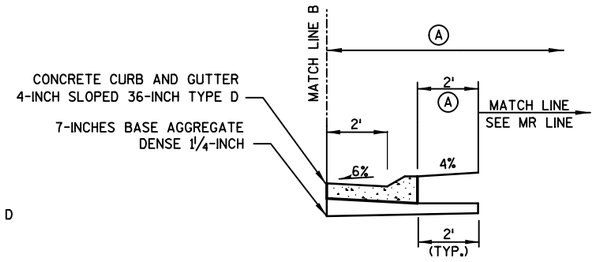
FINISHED TYPICAL SECTION - MILITARY RIDGE Z LINE

STA. 6+19.1 Z TO STA. 9+95.0 Z



FINISHED TYPICAL SECTION - MR CURB SECTIONS

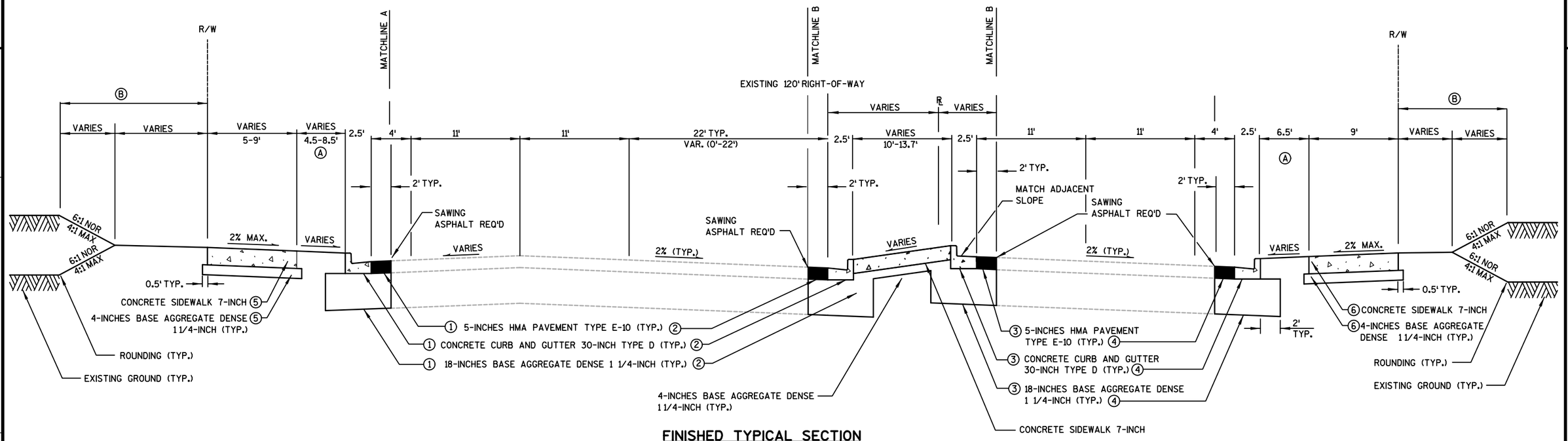
STA. 95+62.5 MR TO STA. 96+55.4 MR LT
STA. 104+94.8 MR TO STA. 105+07.6 MR LT
STA. 103+75.5 MR TO STA. 104+38.0 MR RT



FINISHED TYPICAL SECTION - Y CURB SECTIONS

STA. 10+05 Y TO STA. 12+00 Y

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 32	E



FINISHED TYPICAL SECTION
CTH PD (McKEE ROAD)

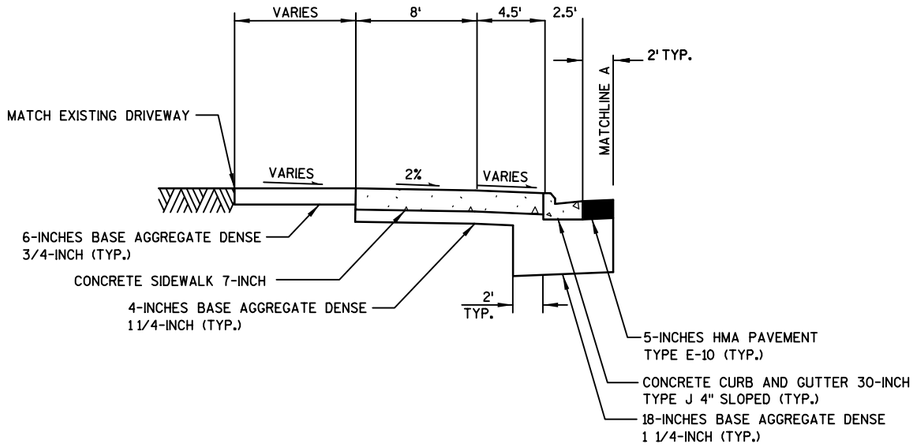
STA. 125+01.20 TO 127+79.86

① STA. 126+90.5 - STA. 127+83.4
② STA. 126+33.8 - STA. 126+73.1
③ STA. 126+30.6 - STA. 126+73.7
④ STA. 125+43.2 - STA. 126+16.8
⑤ STA. 127+13.5 - STA. 127+52.7
⑥ STA. 125+57.2 - STA. 125+83.1

NOTE: SEE PLAN DETAILS FOR ADDITIONAL INFORMATION

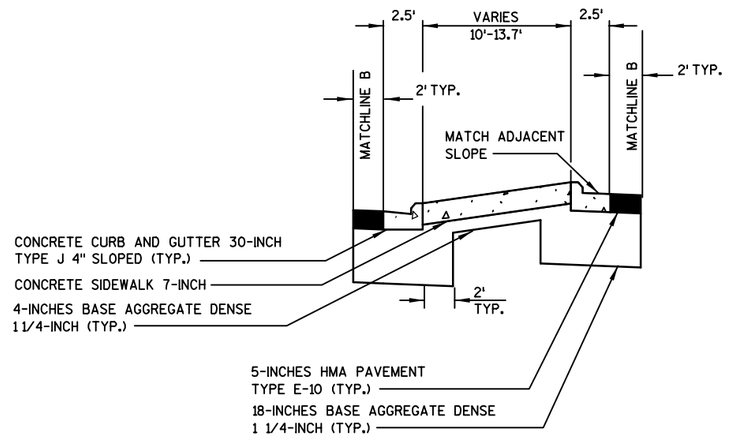
Ⓐ TOPSOIL; SOD LAWN

Ⓑ TOPSOIL; SEEDING TEMPORARY; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40; AND EROSION MAT URBAN CLASS I TYPE A. SEE EROSION CONTROL PLAN FOR ADDITIONAL INFORMATION.



FINISHED TYPICAL SECTION
CG-30J4 SECTIONS

STA. 126+25.4 - STA.126+57.4



FINISHED TYPICAL SECTION
CG-30J4 SECTIONS

STA. 126+02.4 - STA. 126+30.6 ,RT
STA. 126+10.5 - STA. 126+33.2, LT

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	FINISHED TYPICAL SECTIONS - CTH PD (McKEE ROAD)	SHEET 33	E

2

BELTLINE

STATION	LEFT	RIGHT	DESCRIPTION
MAINLINE WB	(e=2.6%, T=184, L=104)		
1026+10	-2.6	-2.6	FULL SUPER
1036+00	-2.6	-2.6	FULL SUPER
1047+55	---	-2.6	FULL SUPER
1047+79	---	-2.0	NORMAL CROWN
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

STATION	LEFT	RIGHT	DESCRIPTION
MAINLINE EB SHOULDER	(e=2.6%, T=184, L=104)		
1026+33	0.0	---	MATCH EX. PAVEMENT
1028+00	4.0	---	NORMAL SHOULDER
1069+50	4.0	---	NORMAL SHOULDER
1070+00	2.0	---	NORMAL CROWN
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

STATION	LEFT	RIGHT	DESCRIPTION
MAINLINE WB SHOULDER	(e=2.6%, T=184, L=104)		
1074+65	---	-4.0	NORMAL SHOULDER
1075+00	---	-2.5	---
1076+41	---	-1.0	1% SHOULDER
1077+41	---	-1.0	1% SHOULDER
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---

STATION	LEFT	RIGHT	DESCRIPTION
CROWN TRANSITION MAINLINE WB	(e=N/A, T=N/A, L=N/A)		
1076+52	-2.0	-2.0	NORMAL CROWN
1076+77	-1.5	-1.5	19.2'LT CROWN
1077+28	1.5	-1.5	MATCH EX. PAVEMENT
---	TRANSITION -2.0%		---
---	ROADWAY AT STATION		---
---	1076+52, TO 1.5%		---
---	ROADWAY CROWN AT		---
---	STATION 1077+28,		---
---	19.2'LT		---

STATION	LEFT	RIGHT	DESCRIPTION
CROWN TRANSITION EB SHLD	(e=N/A, T=N/A, L=N/A)		
1076+80	2.0	2.0	12'RT CROWN
1077+41	2.0	-1.9	17.3'RT CROWN
---	---	---	---
---	TRANSITION 2.0%		---
---	ROADWAY CROWN AT		---
---	STATION 1076+80,		---
---	12'RT TO -1.9%		---
---	ROADWAY CROWN AT		---
---	STATION 1077+41,		---
---	17.3'RT		---

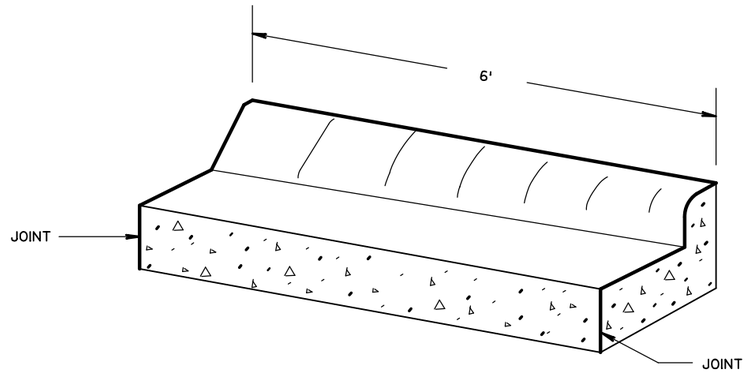
S RAMP

STATION	LEFT	RIGHT	DESCRIPTION
S RAMP CURVE #1	(e=2.0%, T=86, L=43)		
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
---	---	---	---
1178+84 S	---	2.0	REVERSE CROWN
1179+27 S	---	0.0	0% SUPER
1179+70 S	---	-2.0	NORMAL CROWN

STATION	LEFT	RIGHT	DESCRIPTION
S RAMP CURVE #2	(e=3.7%, T=147, L=96)		
---	---	---	---
---	---	---	---
1180+47 S	---	-2.0	NORMAL CROWN
1180+92 S	---	-3.7	FULL SUPER
1181+80 S	---	-3.7	FULL SUPER
1182+12.33 S	---	-2.5	END OF S ALIGNMENT
1182+25	---	-2.0	NORMAL CROWN
---	---	---	---

WARWICK WAY

STATION	LEFT	RIGHT	DESCRIPTION
WARWICK CROWN TRANSITION	(e=N/A, T=N/A, L=N/A)		
50+75 WW	-4.0	-4.0	MATCH EX. PAVEMENT
50+85 WW	-4.0	-4.0	---
51+35 WW	-2.0	-2.0	NORMAL CROWN
52+75 WW	-2.0	-2.0	NORMAL CROWN
53+25 WW	-4.0	-2.0	---
53+50 WW	-4.0	-2.0	MATCH EX. PAVEMENT
---	---	---	---
---	---	---	---
---	---	---	---
---	TRANSITION TO		---
---	MATCH EXISTING		---
---	4.0% ROADWAY CROWN		---
---	AT 50+75 WW AND		---
	53+50 WW (LT)		



CONCRETE CURB AND GUTTER TRANSITION DETAIL

NOTE: TRANSITION FROM CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D TO CONCRETE CURB AND GUTTER 30-INCH TYPE D

- TO BE MEASURED AND PAID AS CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D

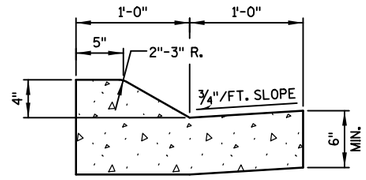
TRANSITION FROM CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D TO CONCRETE CURB AND GUTTER 30-INCH TYPE D

- TO BE MEASURED AND PAID AS CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D

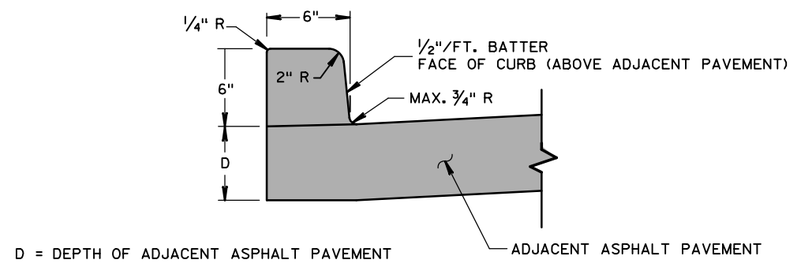
TRANSITION FROM CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J TO CONCRETE CURB AND GUTTER 30-INCH TYPE D

- TO BE MEASURED AND PAID AS CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J

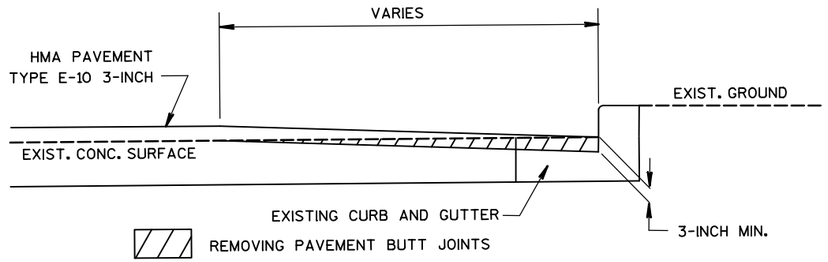
2



CONCRETE CURB AND GUTTER
4-INCH SLOPED 24-INCH TYPE D

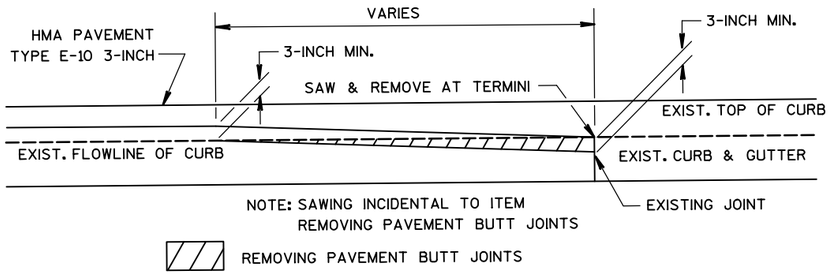


ASPHALTIC CURB DETAIL



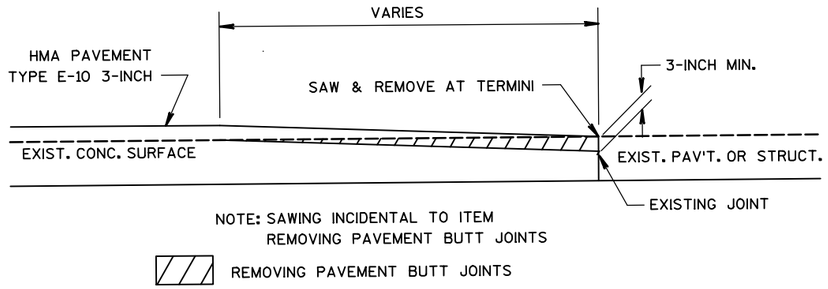
REMOVING PAVEMENT BUTT JOINTS

SECTION A-A



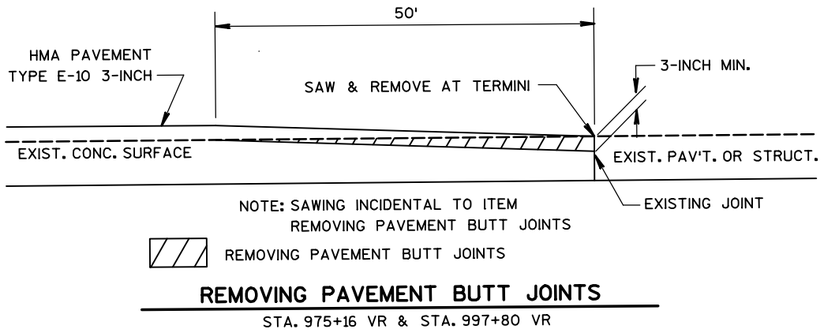
REMOVING PAVEMENT BUTT JOINTS

SECTION B-B



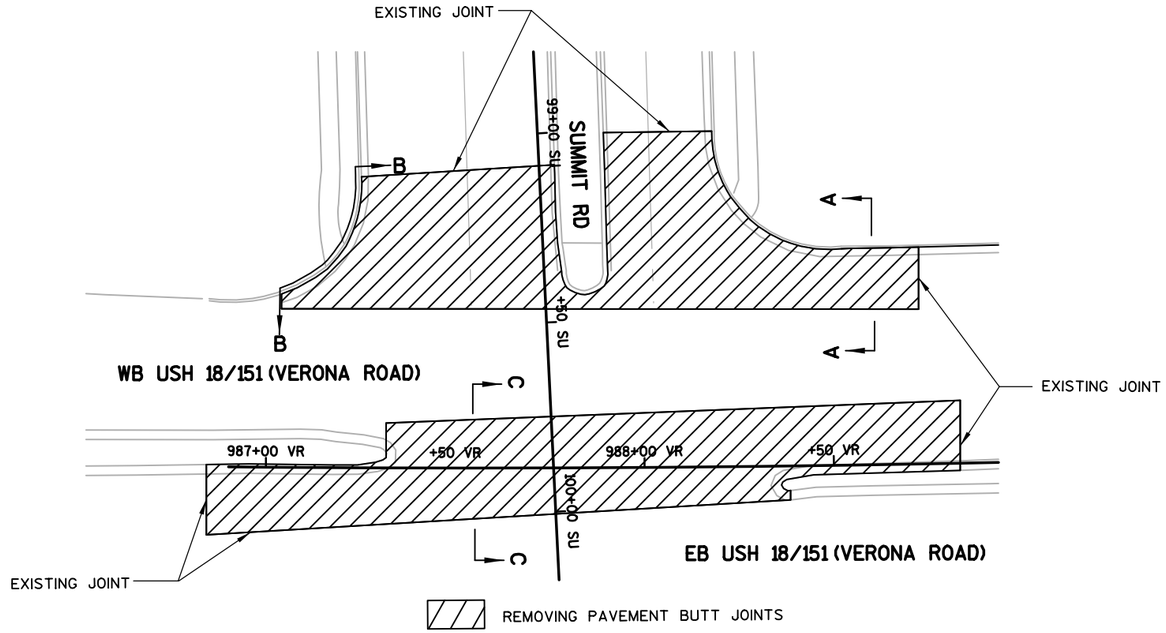
REMOVING PAVEMENT BUTT JOINTS

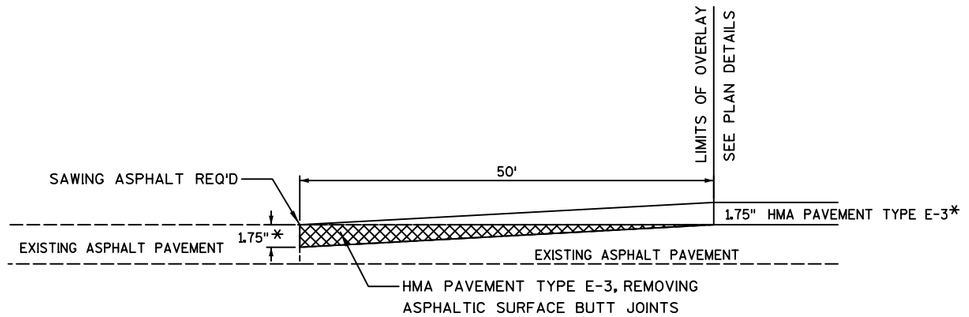
SECTION C-C



REMOVING PAVEMENT BUTT JOINTS

STA. 975+16 VR & STA. 997+80 VR





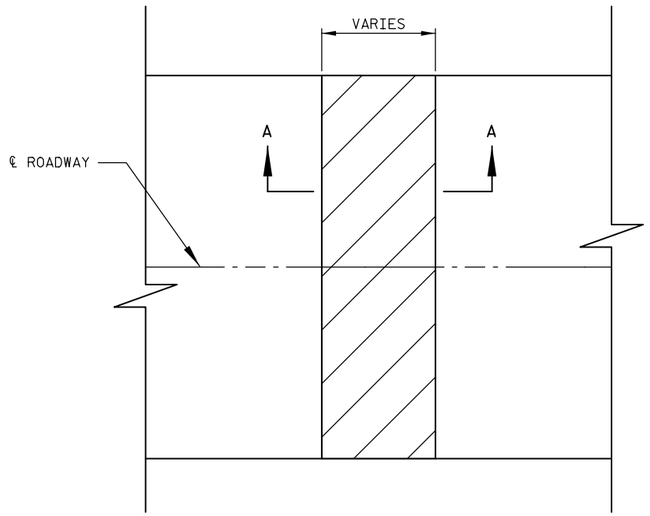
NOTE: SAWING INCIDENTAL TO ITEM
REMOVING PAVMENT BUTT JOINTS

SEE PLAN-REHAB./TRAFFIC CONTROL
SHEETS FOR ADDITIONAL INFORMATION

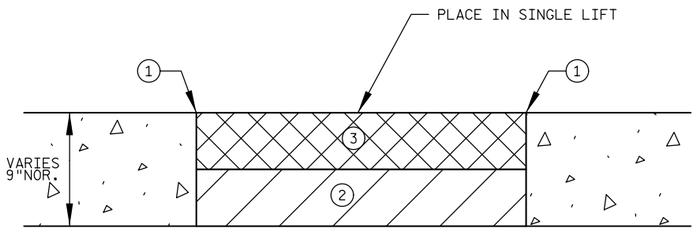
* 2" HMA PAVEMENT TYPE E-3
OVERLAYAT SEMINOLE HIGHWAY
AND LACY ROAD INTERSECTION

BUTT JOINT DETAIL

CTH M AND FISH HATCHERY ROAD
FISH HATCHERY ROAD AND WHALEN ROAD
SEMINOLE HIGHWAY AND LACY ROAD



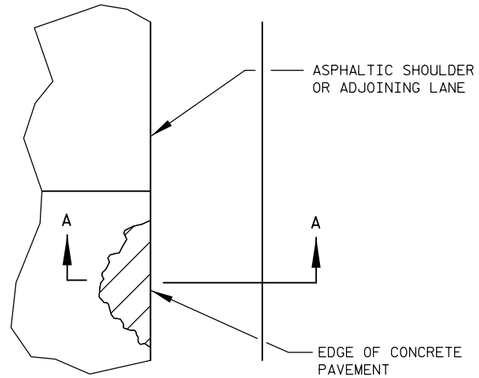
PLAN VIEW



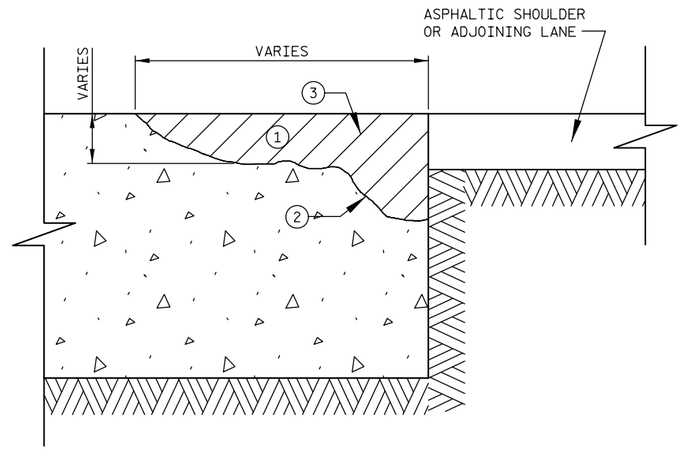
SECTION A-A

1. SAW CONCRETE (FULL DEPTH)
2. BASE AGGREGATE DENSE 1-¼ INCH, 4 INCHES (NOR.)
3. BASE PATCHING ASPHALTIC (TYPE E-10), 5 INCHES

BASE PATCHING ASPHALTIC



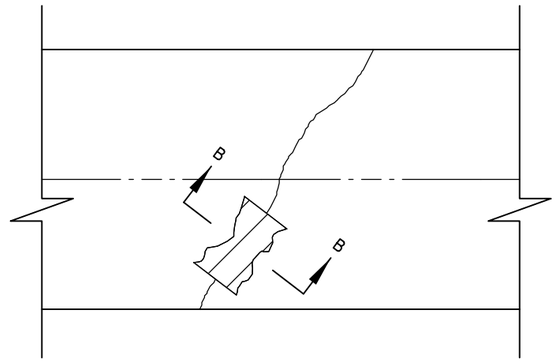
PLAN VIEW



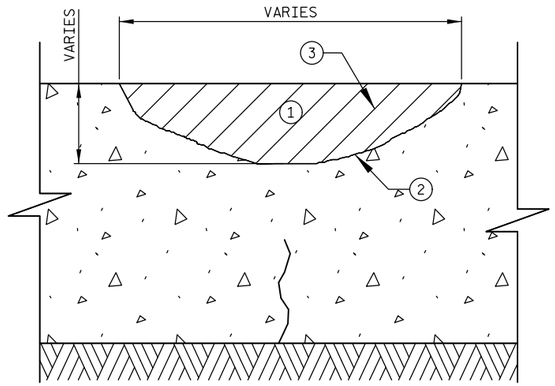
SECTION A-A

1. REMOVE ALL UNSOUND AND DETERIORATED MATERIAL
2. BLOW OUT REPAIR AREAS WITH 80 PSI MINIMUM COMPRESSED AIR
3. ASPHALTIC SURFACE PATCHING

ASPHALTIC SURFACE PATCHING EDGE REPAIR



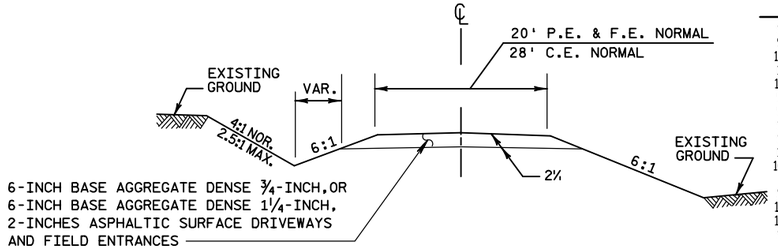
PLAN VIEW



SECTION B-B

1. REMOVE ALL UNSOUND AND DETERIORATED MATERIAL
2. BLOW OUT REPAIR AREAS WITH 80 PSI MINIMUM COMPRESSED AIR
3. ASPHALTIC SURFACE PATCHING

ASPHALTIC SURFACE PATCHING (CRACK/JOINT REPAIR)

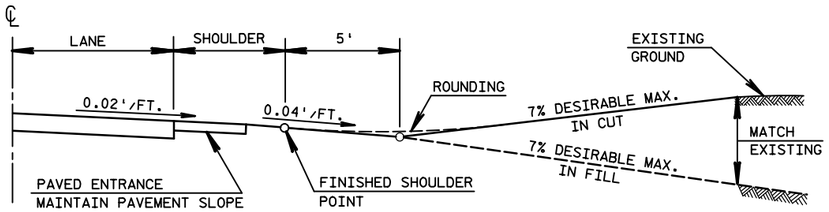


TYPICAL CROSS SECTION

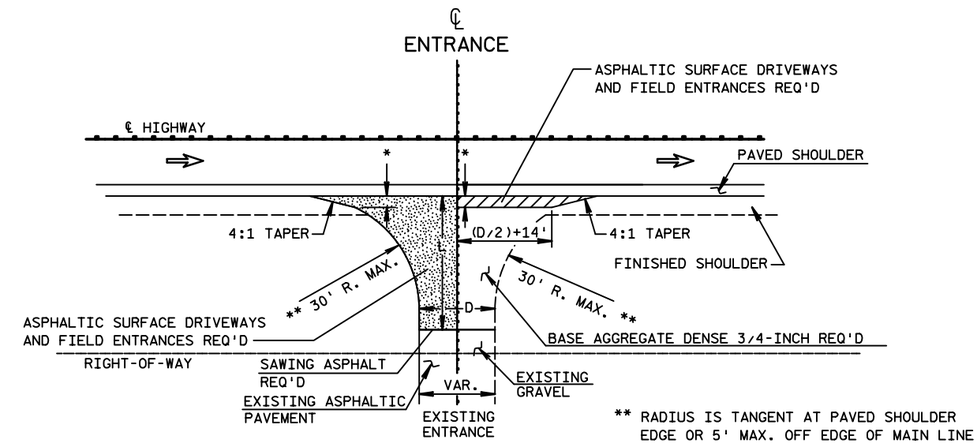
RURAL DRIVEWAY TABLE

STATION	D (FT)	HMA (IN)	BAD (IN)
95+37 MFH RT	20	---	6
98+00 MFH LT	13	2	6
103+50 MFH LT	20	---	6
104+12 MFH LT	13	---	6
106+62 MFH LT	12	---	6
95+85 FHM LT	11	---	6
97+68 FHM LT	10	2	6
97+84 FHM RT	14	---	6
98+85 FHM RT	18	---	6
101+69 FHM LT	13	2	6
105+00 FHM RT	15	2	6
96+11 FHW LT	12	2	6
96+40 FHW LT	13	---	6
103+33 FHW LT	10	2	6
108+74 FHW LT	28	2	6
98+45 WFH RT	13	2	6
91+90 SL RT	11	2	6
106+35 SL LT	20	---	6
98+00 LR RT	29	---	6
103+07 SS LT	10	---	6

*NOTE: 10' MIN. ASPHALT APRON REQUIRED AT DRIVEWAYS



PROFILE VIEW



L=VARIABLE, EXACT LENGTH TO BE DETERMINED IN THE FIELD BY THE ENGINEER. BLEND BACK ON THE ENTRANCE FAR ENOUGH TO GET A SMOOTH PROFILE.

D=DRIVEWAY WIDTH
D=20'TYP.(PE's & FE's) (16'MIN.-24'MAX.)
D=28'TYP.(CE's) (24'MIN.-35'MAX.)

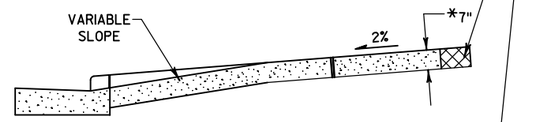
PLAN VIEW

** RADIUS IS TANGENT AT PAVED SHOULDER EDGE OR 5' MAX. OFF EDGE OF MAIN LINE PAVEMENT WHICH EVER IS LESS.

* 3' MAX. OR TO FINISHED SHOULDER WHICH EVER IS LESS.

RURAL DRIVEWAY DETAIL

THIS AREA TO BE REPLACED IN KIND AS NOTED ON PLANS:
CONCRETE = CONCRETE DRIVEWAY HES 7-INCH OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH
ASPHALT = 3½" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES OVER 8" BASE AGGREGATE DENSE 1¼-INCH



SECTION A-A

URBAN DRIVEWAY TABLE

STATION	D (FT)	HMA (IN)	CONC. (IN)	BAD (IN)
51+17 WW LT	10	---	7	6
52+50 WW LT	8	3.5	---	8
53+00 WW LT	9	---	7	6
53+43 WW LT	9	---	7	6
13+50 UH	28	3.5	---	8
10+00 NP	20	3.5	---	8
18+51 BP LT	20	---	7	6
98+16 SP RT	20	---	---	---

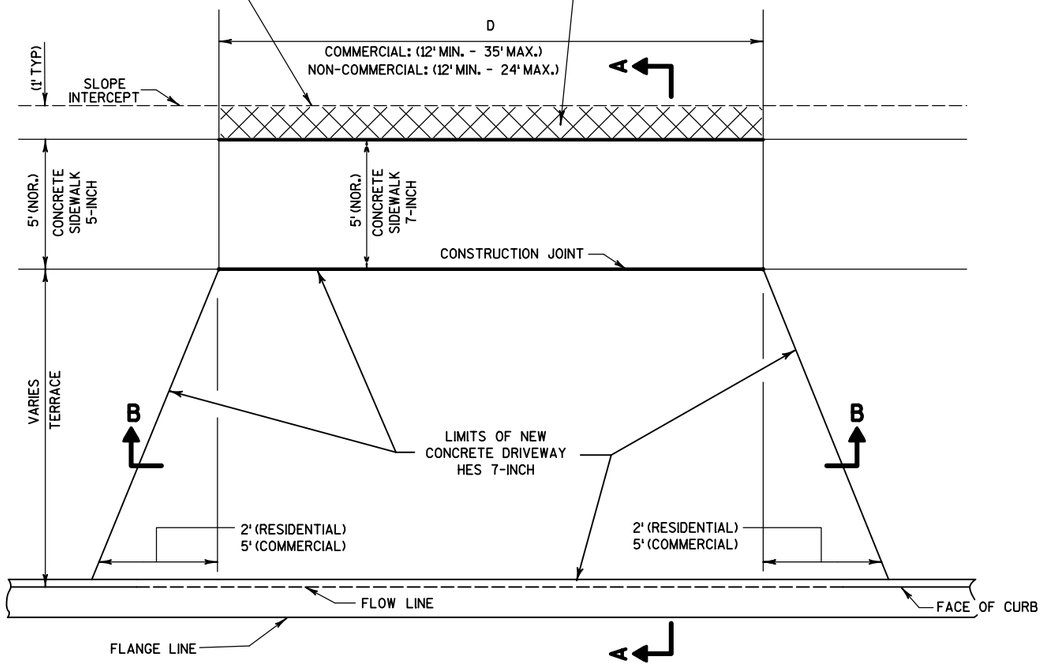
DRIVEWAY CONSTRUCTION NOTES:

——— HEAVY LINE INDICATES ½" EXPANSION JOINT MATERIAL.

WHEN MATCHING EXISTING CONCRETE DRIVEWAY INSTALL ½" EXPANSION JOINT MATERIAL BETWEEN NEW AND OLD DRIVEWAY.

* UNLESS OTHERWISE NOTED ON PLAN

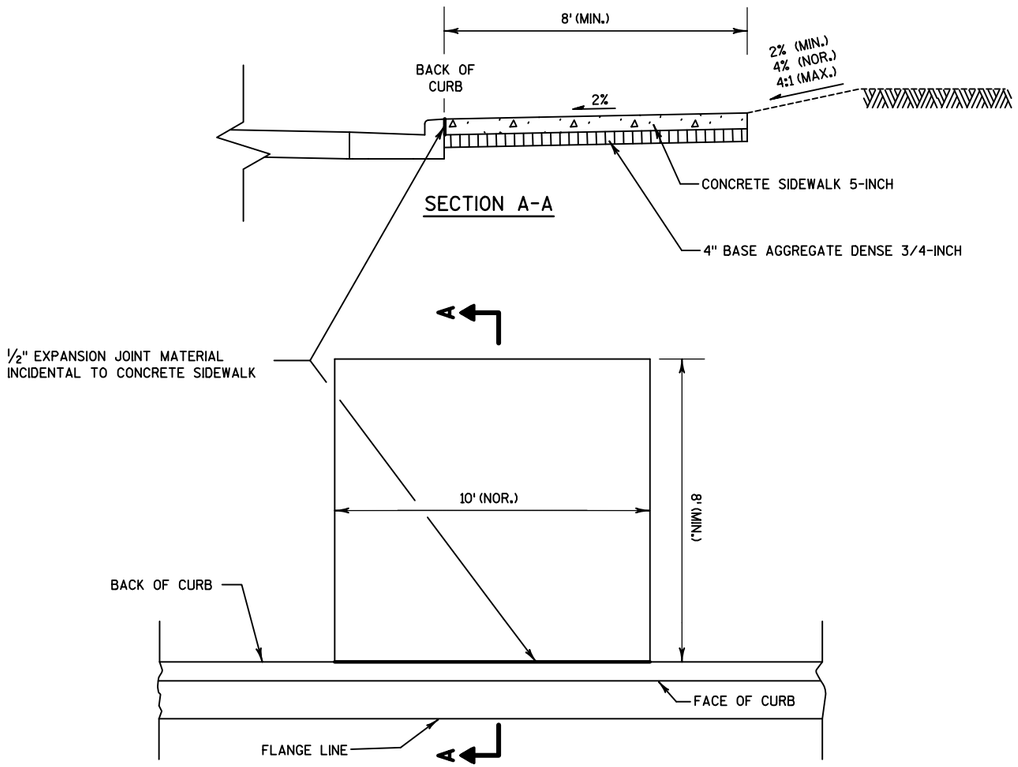
PROVIDE CONSTRUCTION JOINT FOR CONCRETE DRIVEWAYS WIDER THAN 14 FEET



SECTION B-B

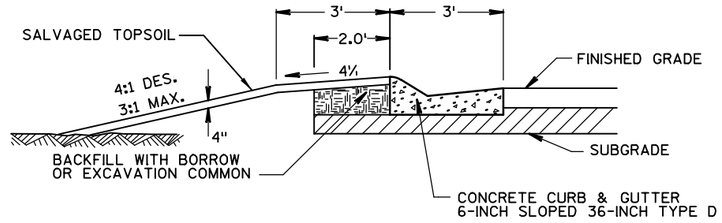
URBAN DRIVEWAY DETAIL

(ADJACENT TO SIDEWALK)



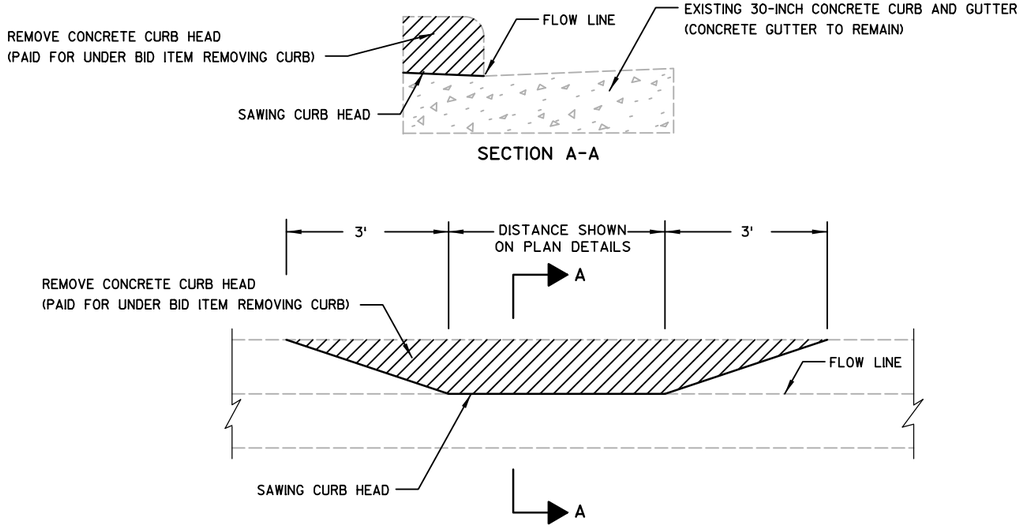
BUS STOP PAD DETAIL

(SEE PLAN DETAILS FOR LOCATIONS)

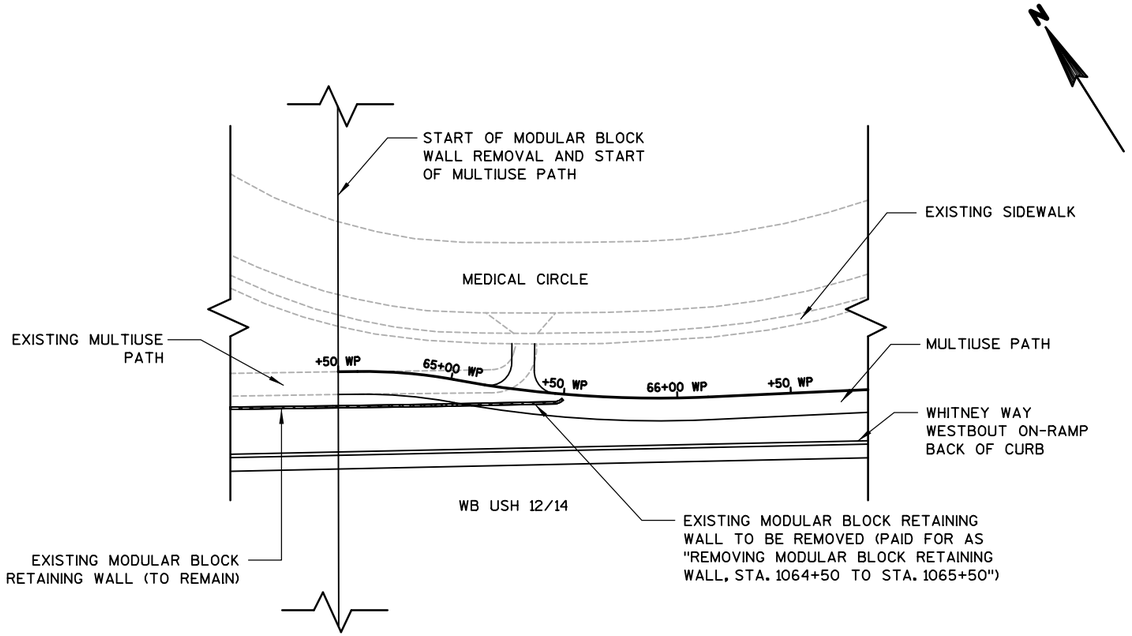


BERM DETAIL AT INTERSECTION RADII

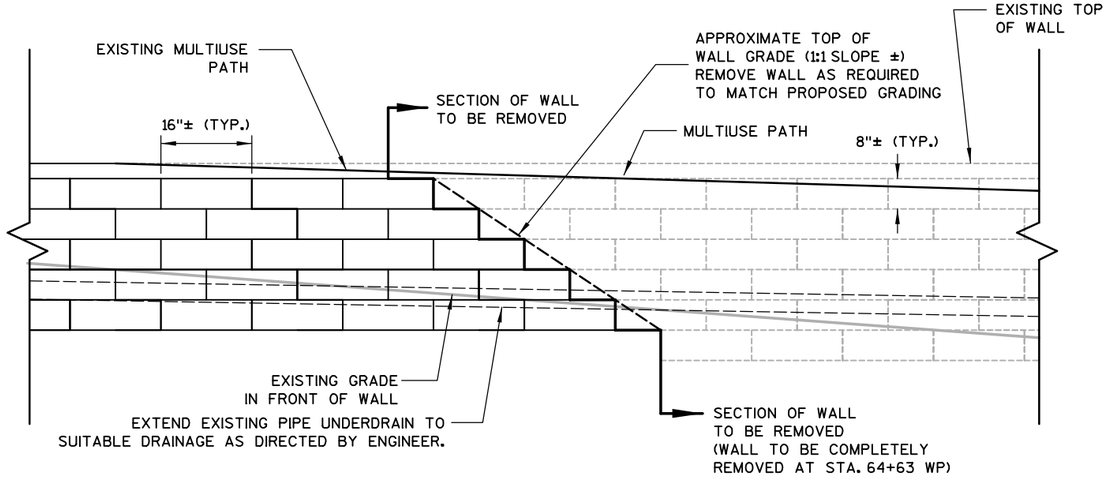
CTH M AND FISH HATCHERY ROAD



REMOVING CURB



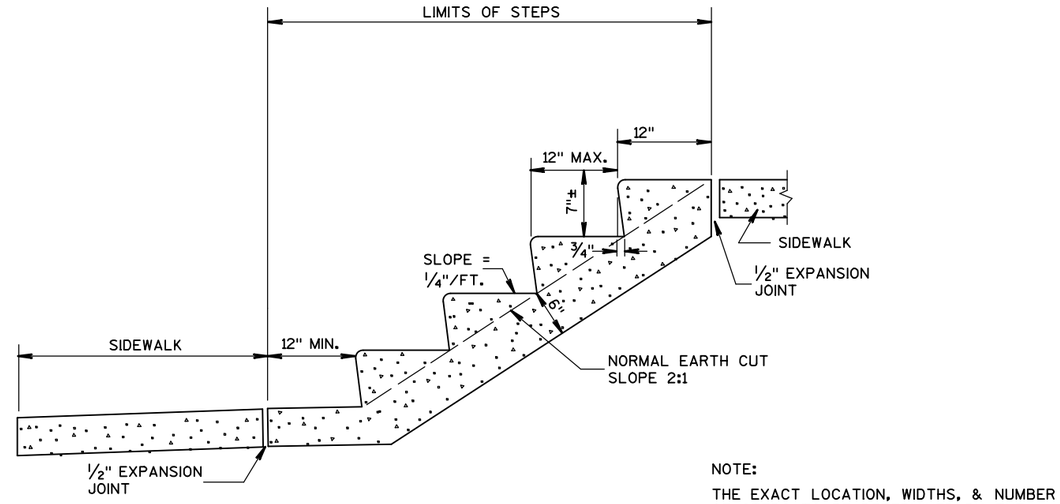
PLAN
EXISTING WALL LAYOUT



SEE CROSS SECTIONS FOR MORE DETAIL

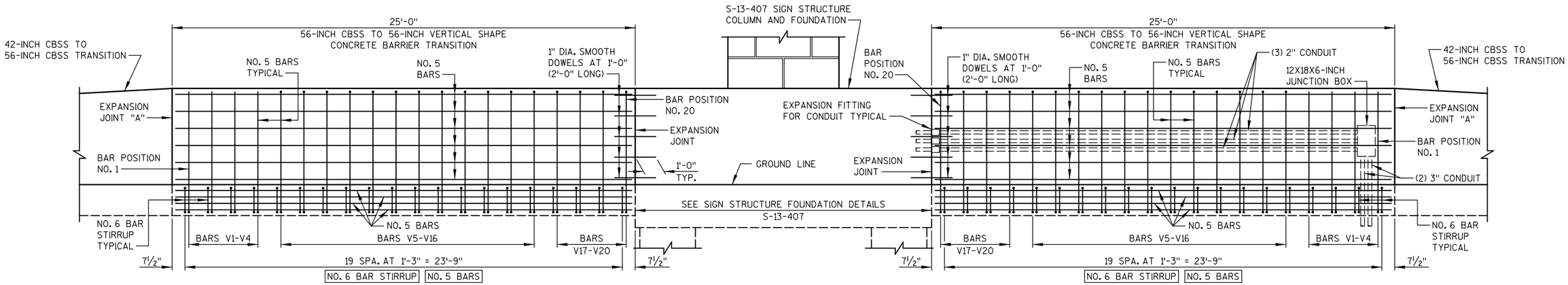
ELEVATION
SHOWING WALL REMOVAL
(LOOKING NORTH)
DRAWING NOT TO SCALE

REMOVING MODULAR BLOCK RETAINING WALL, STA. 64+50 WP TO STA. 65+50 WP
STA. 64+50 WP RT

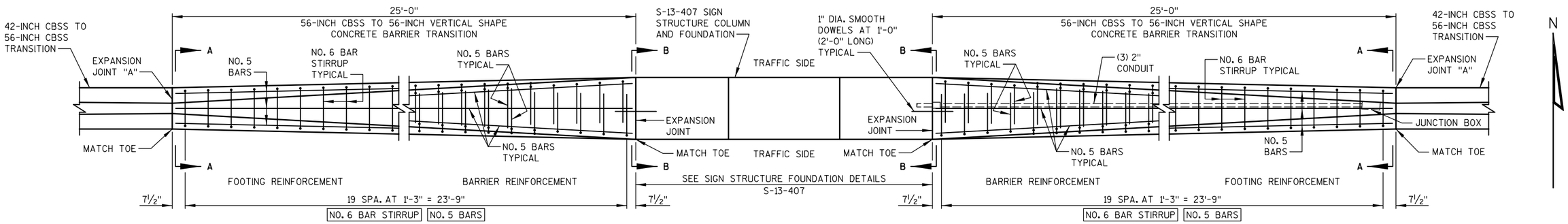


NOTE:
THE EXACT LOCATION, WIDTHS, & NUMBER OF STEPS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

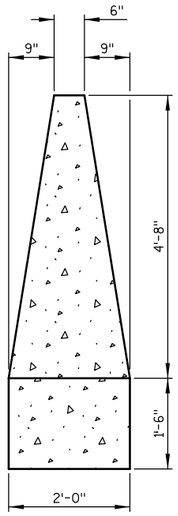
CONCRETE STEPS DETAIL



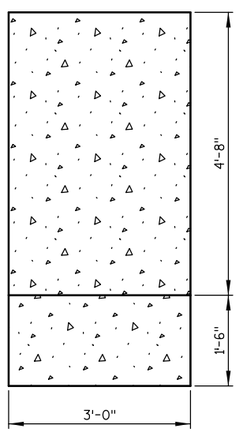
ELEVATION VIEW
(LOOKING NORTH)



PLAN VIEW



SECTION A-A



SECTION B-B

NOTES:

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BAR'S LOCATION.

2" CLEAR COVER TYPICAL.

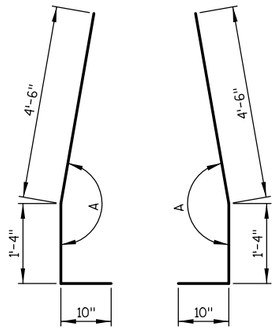
EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD-JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. INSTALL JUNCTION BOX FLUSH WITH FACE OF BARRIER WALL.

CONCRETE BARRIER TRANSITION S56-56VERTICAL

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONCRETE BARRIER TRANSITION	SHEET 41	E

BAR CHART
BAR POSITIONS V1 - V4

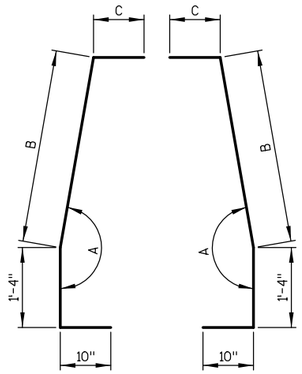
BAR	A
V1	171°-5'
V2	171°-30'
V3	172°-0'
V4	172°-25'



BAR BENDING DETAIL
FOR BARS V1 - V4

BAR CHART
BAR POSITIONS V5 - V16

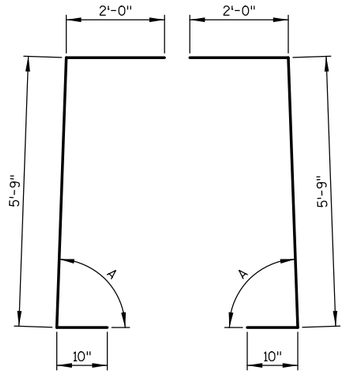
BAR	A	B	C
V5	172°-50'	4'-6"	8"
V6	173°-20'	4'-6"	10"
V7	173°-45'	4'-6"	1'-0"
V8	174°-15'	4'-6"	1'-1"
V9	174°-40'	4'-5½"	1'-3"
V10	175°-10'	4'-5½"	1'-4"
V11	175°-35'	4'-5½"	1'-6"
V12	176°-5'	4'-5½"	1'-7"
V13	176°-30'	4'-5½"	1'-8"
V14	177°-0'	4'-5½"	1'-10"
V15	177°-30'	4'-5½"	1'-11"
V16	177°-55'	4'-5½"	2'-0"



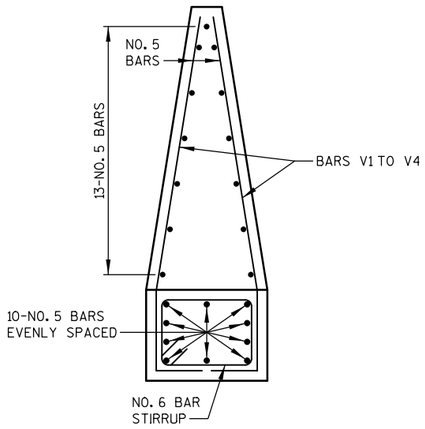
BAR BENDING DETAIL
FOR BARS V5 - V16

BAR CHART
BAR POSITIONS V17 - V20

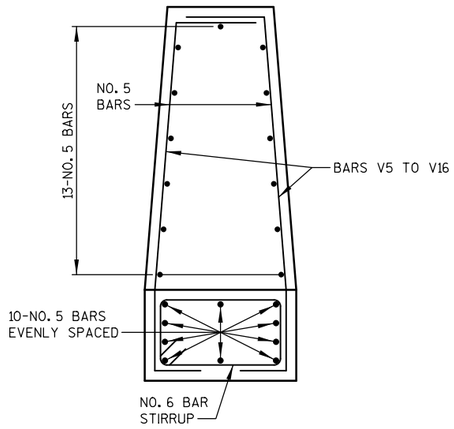
BAR	A
V17	88°-45'
V18	89°-5'
V19	89°-30'
V20	89°-50'



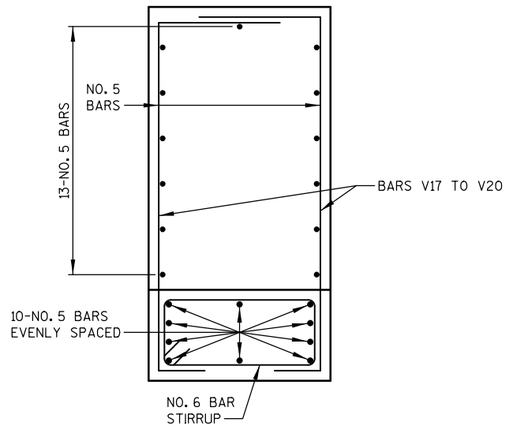
BAR BENDING DETAIL
FOR BARS V17 - V20



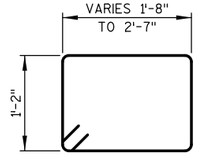
BAR DETAIL
BARS V1 - V4



BAR DETAIL
BARS V5 - V16



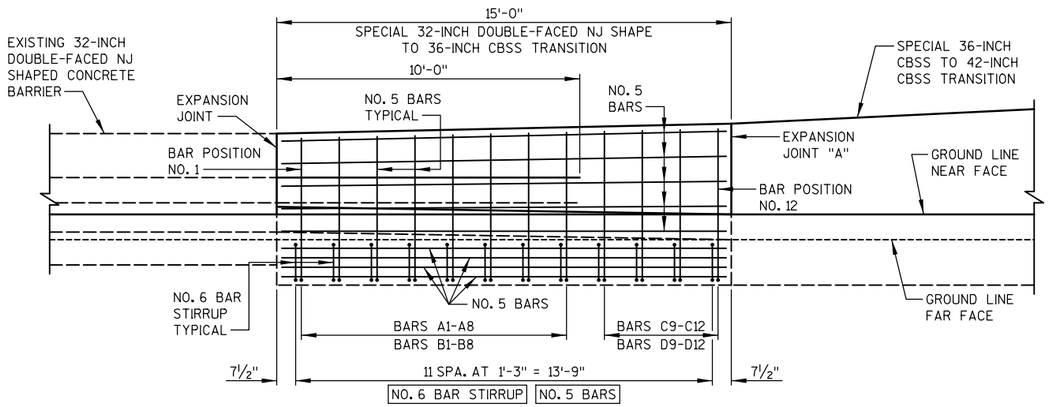
BAR DETAIL
BARS V17 - V20



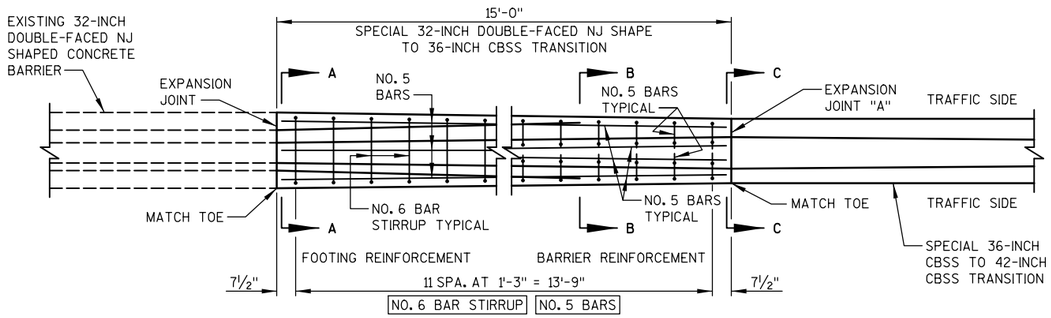
STIRRUP BAR
BENDING DETAIL

CONCRETE BARRIER TRANSITION S56-56VERTICAL

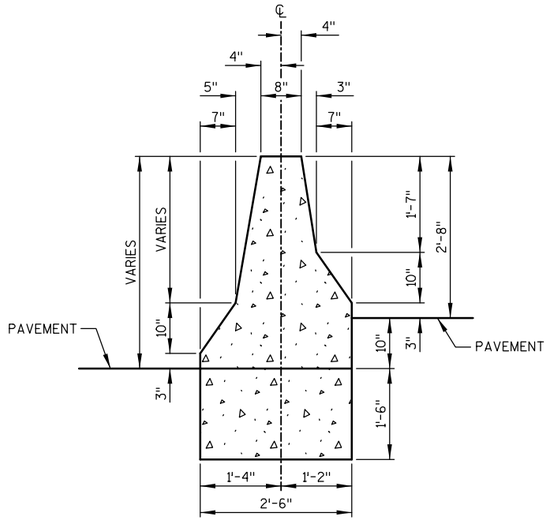
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONCRETE BARRIER TRANSITION	SHEET 42	E



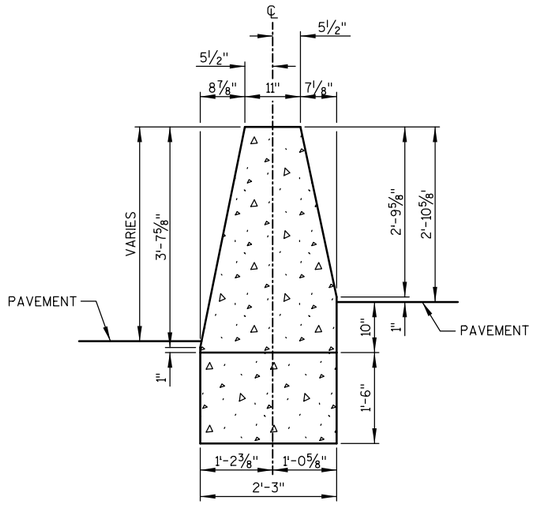
ELEVATION VIEW
(LOOKING NORTH)



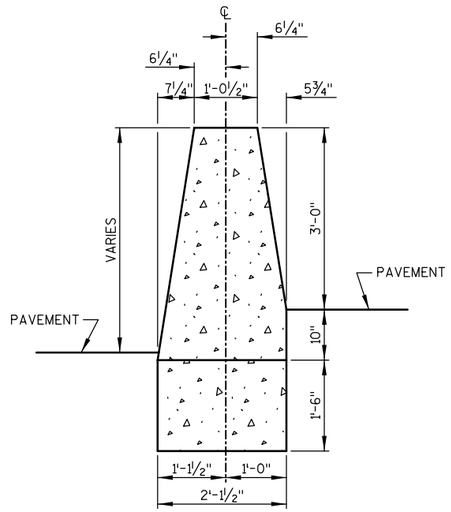
PLAN VIEW



SECTION A-A
(MATCH EXISTING)



SECTION B-B



SECTION C-C

NOTES:

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BAR'S LOCATION.

2" CLEAR COVER TYPICAL.

EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD-JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD-JOINT IS USED, ANCHOR NOT REQUIRED.

VERIFY EXISTING 32-INCH DOUBLE FACED NJ SHAPE CONCRETE BARRIER DIMENSIONS PRIOR TO FABRICATING BARS. ADJUST BAR BEND DIMENSIONS AS REQUIRED TO PROVIDE 2" CLEAR COVER.

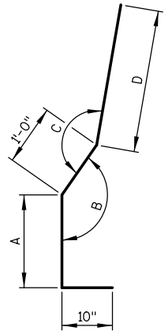
CONCRETE BARRIER TRANSITION NJ32DF-S36 SPECIAL

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONCRETE BARRIER TRANSITION	SHEET 43	E

2

"A" BAR CHART
BAR POSITIONS NO. 1 - NO. 8

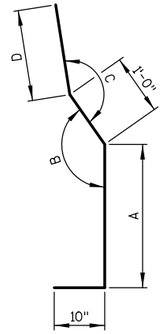
BAR	A	B	C	D
A1	1'-6"	146°-25'	156°-20'	2'-4"
A2	1'-6"	149°-20'	159°-30'	2'-4"
A3	1'-5½"	152°-20'	162°-40'	2'-4½"
A4	1'-5½"	155°-20'	165°-50'	2'-5"
A5	1'-5½"	158°-15'	169°	2'-5"
A6	1'-5"	161°-15'	172°-10'	2'-5½"
A7	1'-5"	164°-15'	175°-20'	2'-6"
A8	1'-5"	167°-5'	178°-25'	2'-6"



"A" BAR BENDING DETAIL

"B" BAR CHART
BAR POSITIONS NO. 1 - NO. 8

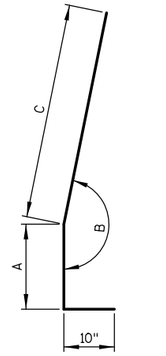
BAR	A	B	C	D
B1	2'-4"	146°-25'	155°-35'	1'-6"
B2	2'-4"	149°-15'	158°-55'	1'-6"
B3	2'-3½"	152°-10'	162°-10'	1'-6½"
B4	2'-3½"	155°-5'	165°-25'	1'-7"
B5	2'-3½"	158°	168°-45'	1'-7"
B6	2'-3"	160°-50'	172°	1'-7½"
B7	2'-3"	163°-45'	175°-15'	1'-8"
B8	2'-3"	166°-35'	178°-25'	1'-8"



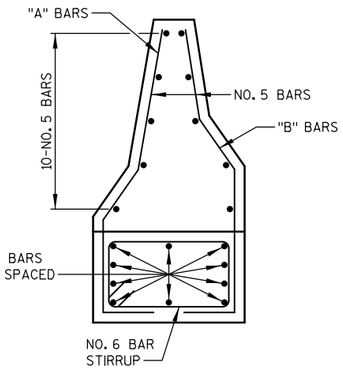
"B" BAR BENDING DETAIL

"C" BAR CHART
BAR POSITIONS NO. 9 - NO. 12

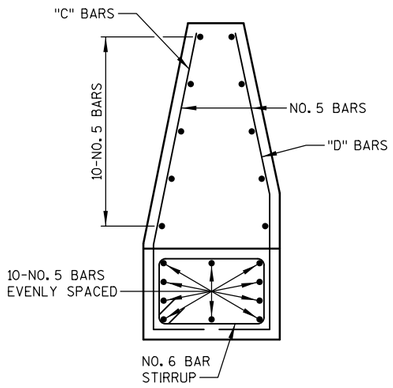
BAR	A	B	C
C9	1'-4½"	168°-50'	3'-6½"
C10	1'-4½"	169°-30'	3'-7"
C11	1'-4"	170°-10'	3'-7½"
C12	1'-4"	170°-45'	3'-8"



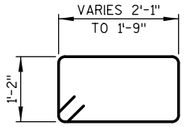
"C" BAR BENDING DETAIL



BAR DETAIL
BAR POSITIONS NO. 1 - NO. 8



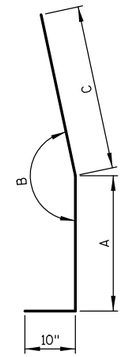
BAR DETAIL
BAR POSITIONS NO. 9 - NO. 12



STIRRUP BAR BENDING DETAIL

"D" BAR CHART
BAR POSITIONS NO. 9 - NO. 12

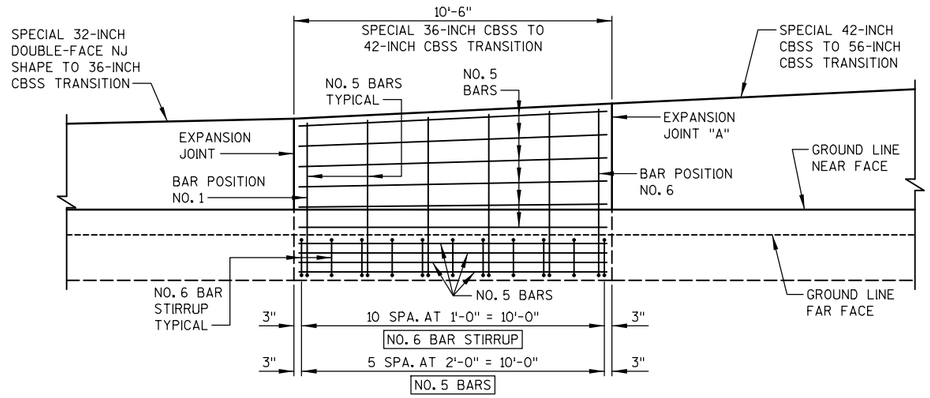
BAR	A	B	C
D9	2'-2½"	168°-20'	2'-8½"
D10	2'-2½"	169°-5'	2'-9"
D11	2'-2"	169°-50'	2'-9½"
D12	2'-2"	170°-35'	2'-10"



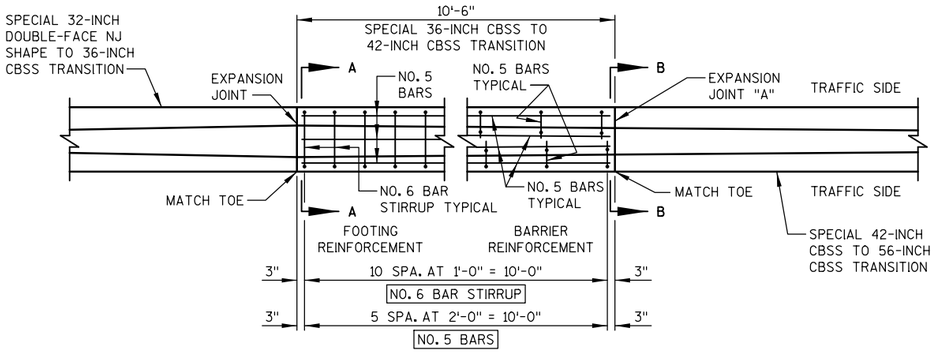
"D" BAR BENDING DETAIL

CONCRETE BARRIER TRANSITION NJ32DF-S36 SPECIAL

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONCRETE BARRIER TRANSITION	SHEET 44	E



ELEVATION VIEW
(LOOKING NORTH)



PLAN VIEW

N

NOTES:

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

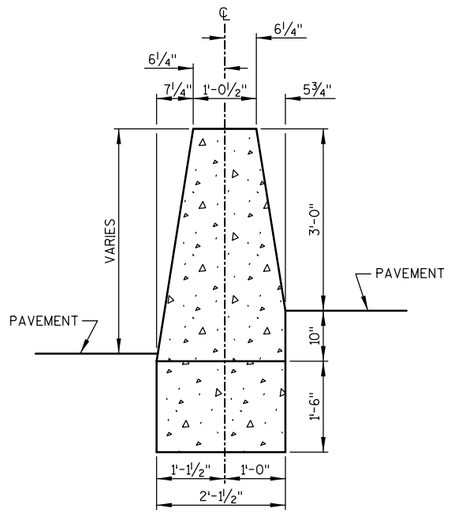
4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

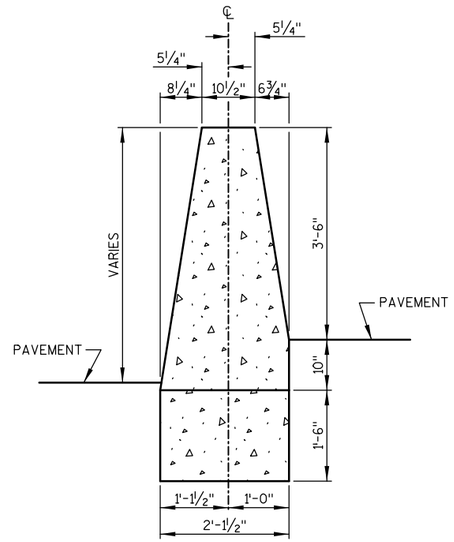
THE NUMBER IN BAR DESIGNATION REPRESENTS THE BAR'S LOCATION.

2" CLEAR COVER TYPICAL.

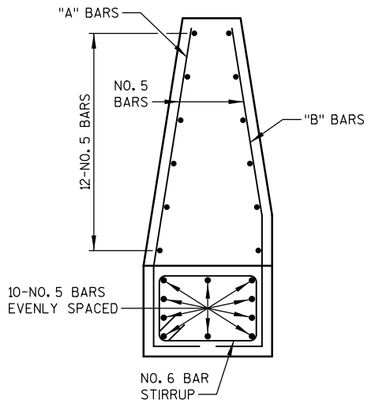
EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD-JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD-JOINT IS USED, ANCHOR NOT REQUIRED.



SECTION A-A



SECTION B-B



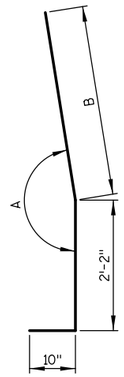
BAR DETAIL
BAR POSITIONS NO. 1 - NO. 6



"A" BAR
BENDING DETAIL

"A" BAR CHART
BAR POSITIONS NO. 1 - NO. 6

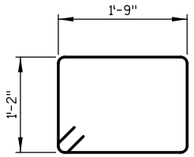
BAR	A	B
A1	171°-5'	3'-8½"
A2	171°	3'-10"
A3	171°	3'-11"
A4	171°	4'-0"
A5	171°	4'-1"
A6	171°	4'-2½"



"B" BAR
BENDING DETAIL

"B" BAR CHART
BAR POSITIONS NO. 1 - NO. 6

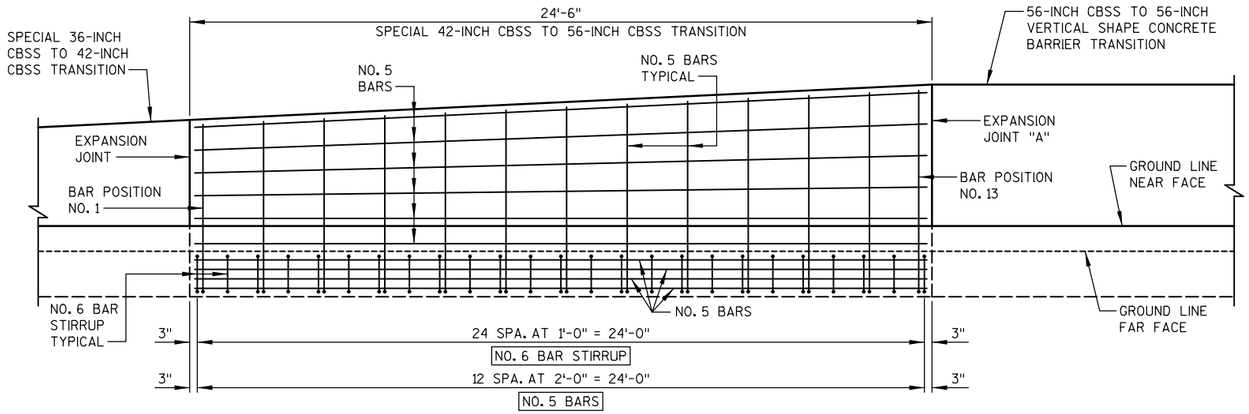
BAR	A	B
B1	170°-55'	2'-10½"
B2	170°-55'	3'-0"
B3	170°-55'	3'-1"
B4	170°-55'	3'-2"
B5	170°-50'	3'-3"
B6	170°-50'	3'-4½"



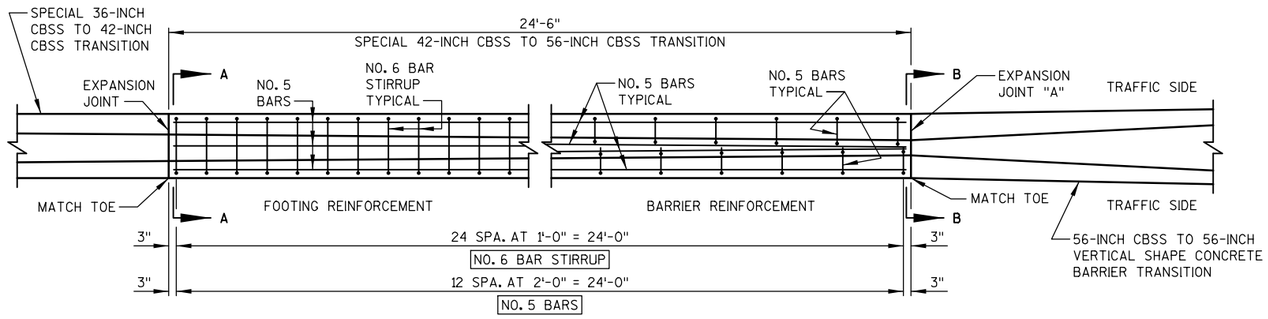
STIRRUP BAR
BENDING DETAIL

CONCRETE BARRIER TRANSITION S36-S42 SPECIAL

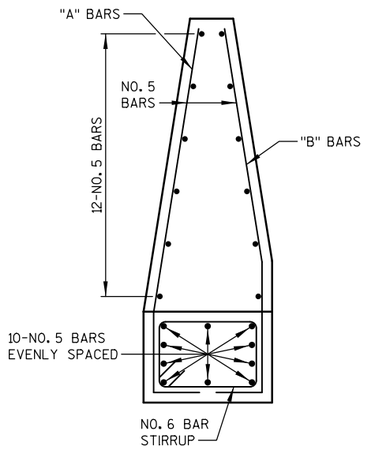
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONCRETE BARRIER TRANSITION	SHEET 45	E



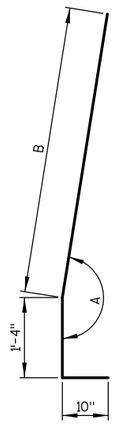
ELEVATION VIEW
(LOOKING NORTH)



PLAN VIEW



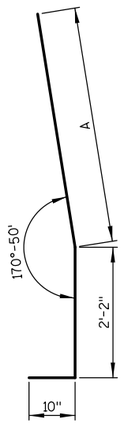
BAR DETAIL
BAR POSITIONS NO. 1 - NO. 13



"A" BAR BENDING DETAIL

"A" BAR CHART
BAR POSITIONS NO. 1 - NO. 13

BAR	A	B
A1	171°	4'-2½"
A2	171°	4'-4"
A3	171°	4'-5"
A4	171°	4'-6"
A5	171°	4'-7½"
A6	171°	4'-8½"
A7	171°	4'-9½"
A8	171°	4'-10½"
A9	171°	5'-0"
A10	170°-55'	5'-1"
A11	170°-55'	5'-2½"
A12	170°-55'	5'-3½"
A13	170°-55'	5'-4½"



"B" BAR BENDING DETAIL

"B" BAR CHART
BAR POSITIONS NO. 1 - NO. 13

BAR	A
B1	3'-4½"
B2	3'-6"
B3	3'-7"
B4	3'-8"
B5	3'-9½"
B6	3'-10½"
B7	3'-11½"
B8	4'-0½"
B9	4'-2"
B10	4'-3"
B11	4'-4½"
B12	4'-5½"
B13	4'-6½"

NOTES:

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

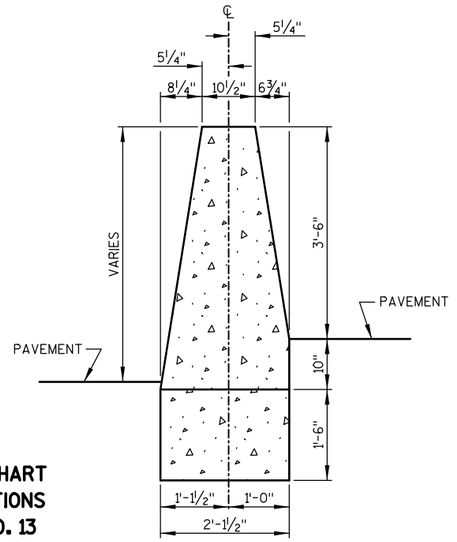
4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

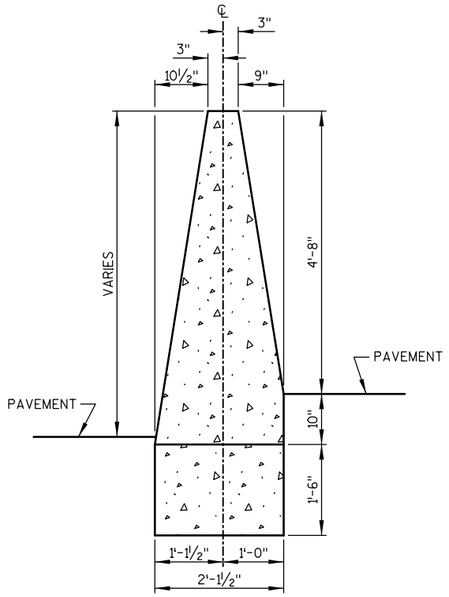
THE NUMBER IN BAR DESIGNATION REPRESENTS THE BAR'S LOCATION.

2" CLEAR COVER TYPICAL.

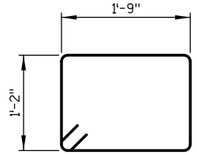
EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD-JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. IF COLD-JOINT IS USED, ANCHOR NOT REQUIRED.



SECTION A-A



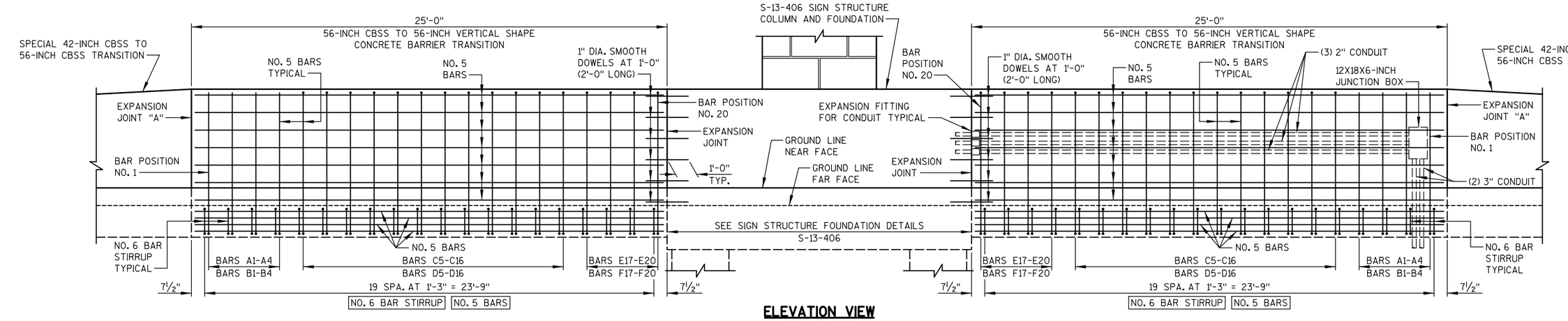
SECTION B-B



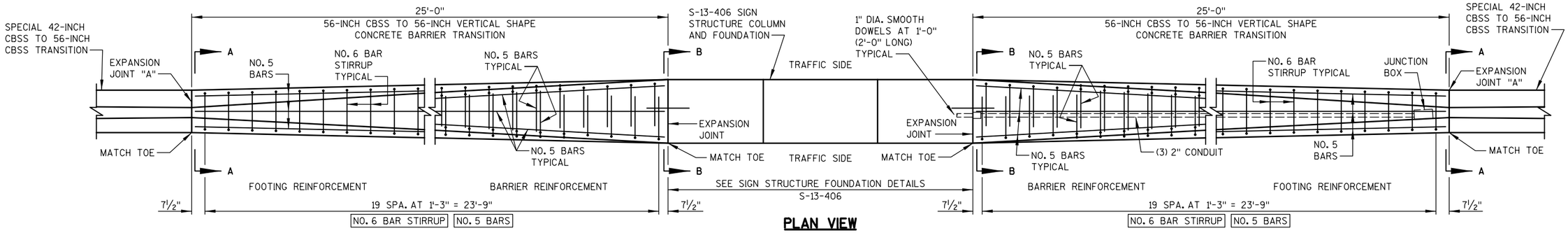
STIRRUP BAR BENDING DETAIL

CONCRETE BARRIER TRANSITION S42-S56 SPECIAL

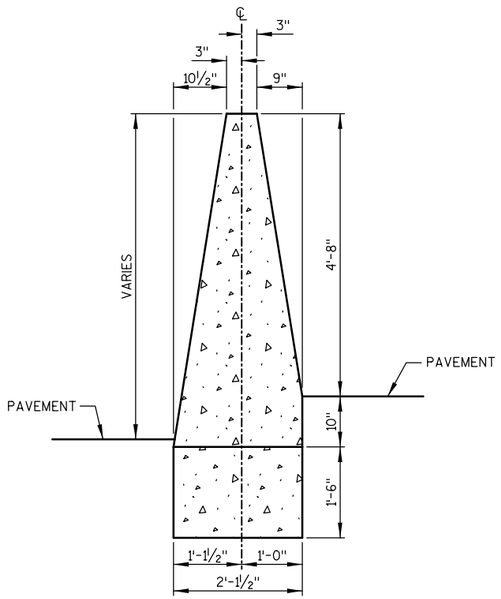
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONCRETE BARRIER TRANSITION	SHEET 46	E



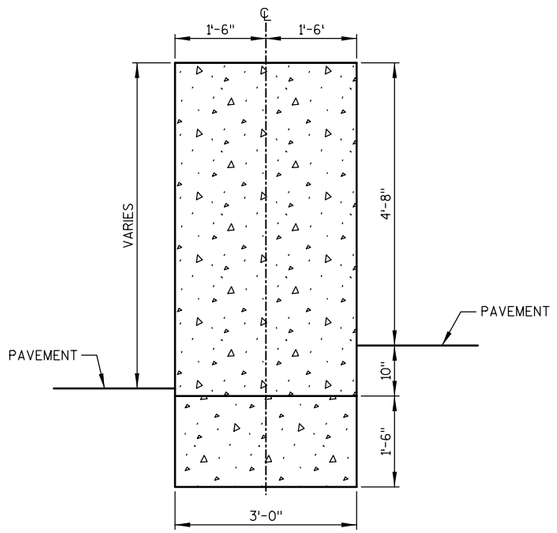
ELEVATION VIEW
(LOOKING NORTH)



PLAN VIEW



SECTION A-A



SECTION B-B

NOTES:

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2'LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BAR'S LOCATION.

2" CLEAR COVER TYPICAL.

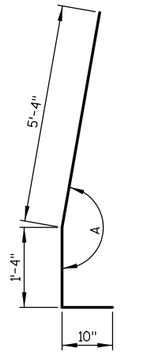
EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD-JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED. INSTALL JUNCTION BOX FLUSH WITH FACE OF BARRIER WALL.

CONCRETE BARRIER TRANSITION S56-56VERTICAL SPECIAL

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONCRETE BARRIER TRANSITION	SHEET 47	E

"A" BAR CHART
BAR POSITIONS NO. 1 - NO. 4

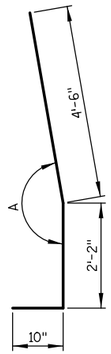
BAR	A
A1	171°-10'
A2	171°-35'
A3	172°-5'
A4	172°-30'



'A" BAR
BENDING DETAIL

"B" BAR CHART
BAR POSITIONS NO. 1 - NO. 4

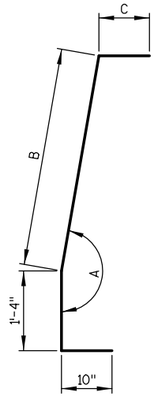
BAR	A
B1	171°-5'
B2	171°-30'
B3	172°-0'
B4	172°-25'



"B" BAR
BENDING DETAIL

"C" BAR CHART
BAR POSITIONS NO. 5 - NO. 16

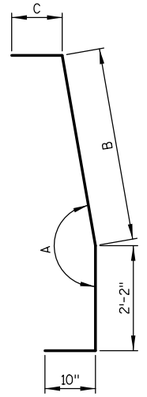
BAR	A	B	C
C5	172°-55'	5'-4"	8"
C6	173°-25'	5'-4"	10"
C7	173°-50'	5'-4"	1'-0"
C8	174°-20'	5'-4"	1'-1"
C9	174°-45'	5'-3½"	1'-3"
C10	175°-15'	5'-3½"	1'-4"
C11	175°-40'	5'-3½"	1'-6"
C12	176°-10'	5'-3½"	1'-7"
C13	176°-35'	5'-3½"	1'-8"
C14	177°-0'	5'-3½"	1'-10"
C15	177°-30'	5'-3½"	1'-11"
C16	177°-55'	5'-3½"	2'-0"



"C" BAR
BENDING DETAIL

"D" BAR CHART
BAR POSITIONS NO. 5 - NO. 16

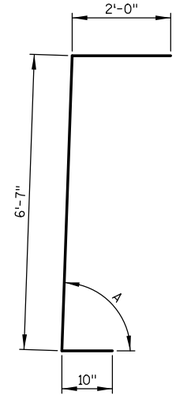
BAR	A	B	C
D5	172°-50'	4'-6"	8"
D6	173°-20'	4'-6"	10"
D7	173°-45'	4'-6"	1'-0"
D8	174°-15'	4'-6"	1'-1"
D9	174°-40'	4'-5½"	1'-3"
D10	175°-10'	4'-5½"	1'-4"
D11	175°-35'	4'-5½"	1'-6"
D12	176°-5'	4'-5½"	1'-7"
D13	176°-30'	4'-5½"	1'-8"
D14	177°-0'	4'-5½"	1'-10"
D15	177°-30'	4'-5½"	1'-11"
D16	177°-55'	4'-5½"	2'-0"



"D" BAR
BENDING DETAIL

"E" BAR CHART
BAR POSITIONS NO. 17 - NO. 20

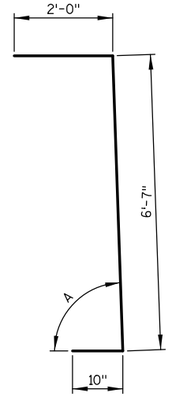
BAR	A
E17	88°-40'
E18	89°-5'
E19	89°-25'
E20	89°-50'



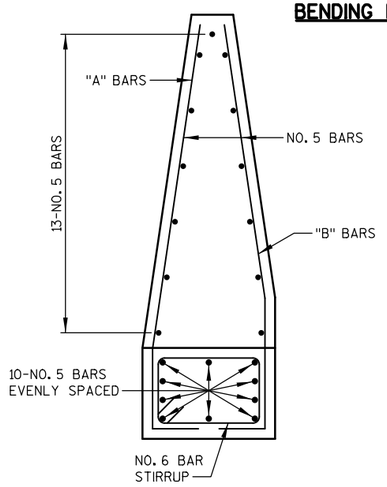
"E" BAR
BENDING DETAIL

"F" BAR CHART
BAR POSITIONS NO. 17 - NO. 20

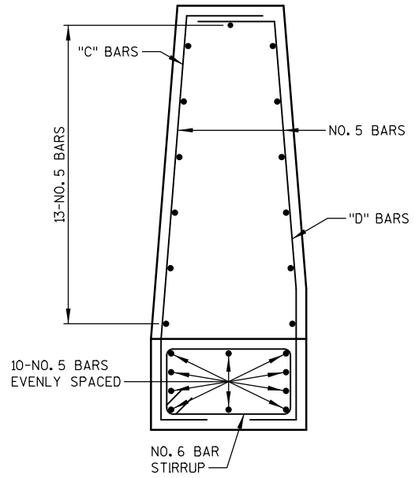
BAR	A
F17	88°-55'
F18	89°-10'
F19	89°-30'
F20	89°-50'



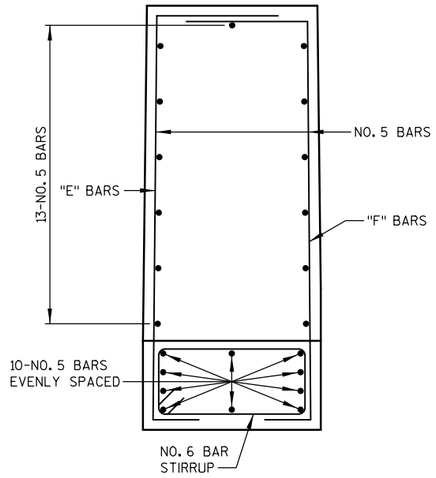
"F" BAR
BENDING DETAIL



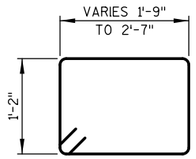
BAR DETAIL
BAR POSITIONS NO. 1 - NO. 4



BAR DETAIL
BAR POSITIONS NO. 5 - NO. 16



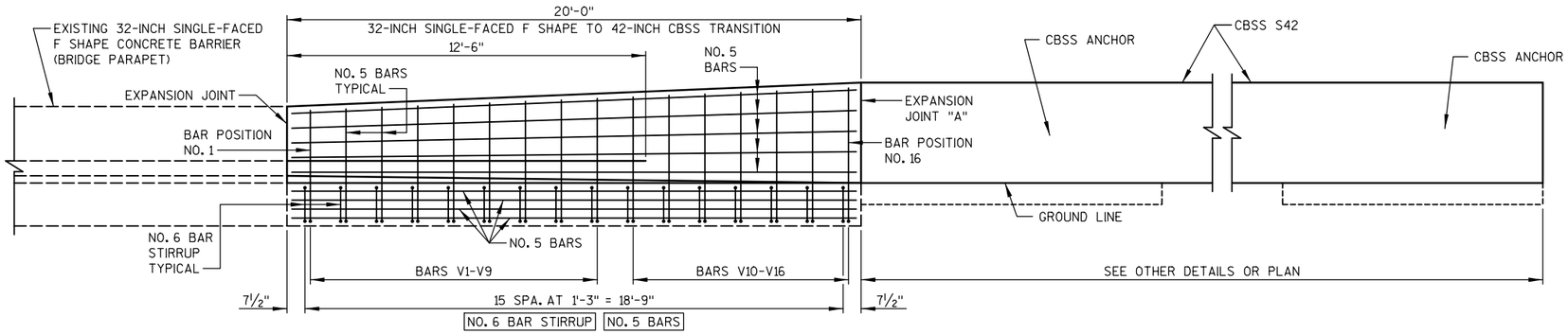
BAR DETAIL
BAR POSITIONS NO. 17 - NO. 20



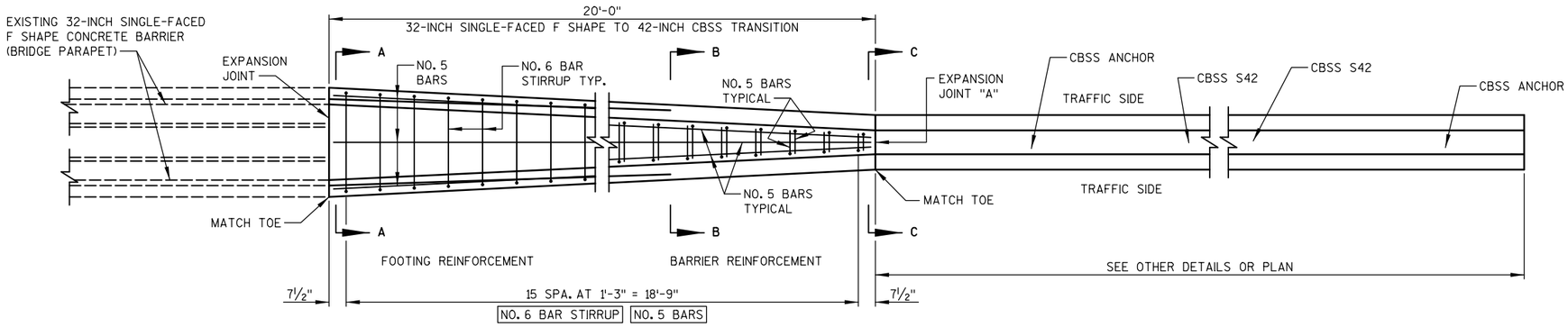
STIRRUP BAR
BENDING DETAIL

CONCRETE BARRIER TRANSITION S56-56VERTICAL SPECIAL

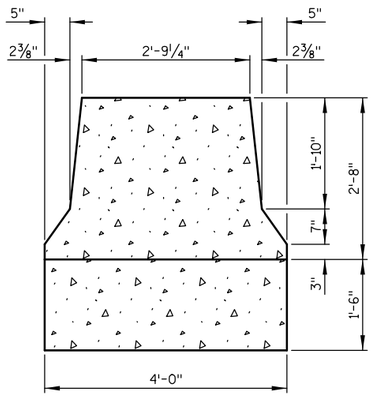
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONCRETE BARRIER TRANSITION	SHEET 48	E



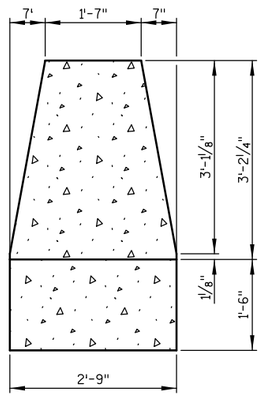
ELEVATION VIEW



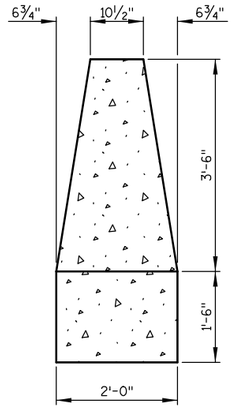
PLAN VIEW



SECTION A-A



SECTION B-B



SECTION C-C

NOTES:

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2'LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BAR'S LOCATION.

2" CLEAR COVER TYPICAL.

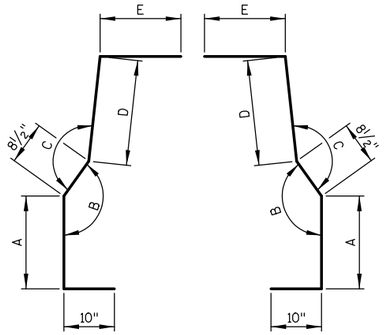
EXPANSION JOINT "A" MAY BE REPLACED WITH A COLD-JOINT PROVIDED THAT 3 FEET OF LAP OF LONGITUDINAL STEEL IS PROVIDED.

CONCRETE BARRIER TRANSITION P32-S42 SPECIAL

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONCRETE BARRIER TRANSITION SPECIAL	SHEET 49	E

BAR CHART
BARS V1 - V9

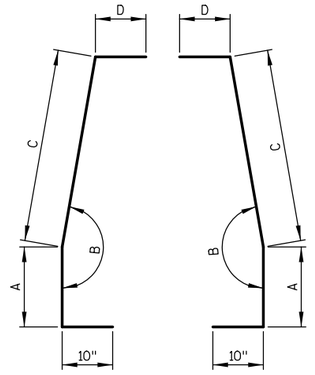
BAR	A	B	C	D	E
V1	1'-6"	145°-45'	152°-10'	1'-9"	2'-0"
V2	1'-6"	148°-15'	155°-15'	1'-9½"	2'-0"
V3	1'-6"	150°-50'	158°-20'	1'-10"	2'-0"
V4	1'-5½"	153°-25'	161°-25'	1'-11"	2'-0"
V5	1'-5½"	155°-55'	164°-25'	1'-11"	1'-11"
V6	1'-5½"	158°-25'	167°-25'	2'-0"	1'-10"
V7	1'-5½"	160°-55'	170°-20'	2'-0½"	1'-8"
V8	1'-5"	163°-25'	173°-10'	2'-1"	1'-7"
V9	1'-5"	165°-50'	175°-55'	2'-2"	1'-5"



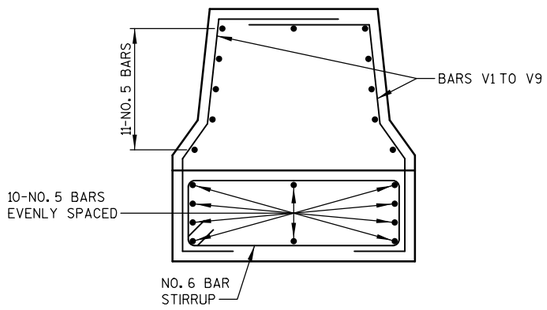
BAR BENDING DETAIL
FOR BARS V1 - V9

BAR CHART
BARS V10 - V16

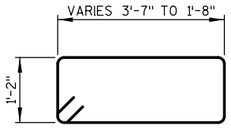
BAR	A	B	C	D
V10	1'-5"	169°-10'	2'-11"	1'-4"
V11	1'-4½"	169°-30'	3'-0"	1'-2"
V12	1'-4½"	169°-45'	3'-1"	1'-1"
V13	1'-4½"	170°-0'	3'-1½"	1'-0"
V14	1'-4"	170°-15'	3'-2"	10"
V15	1'-4"	170°-30'	3'-3"	9"
V16	1'-4"	170°-45'	3'-4"	7"



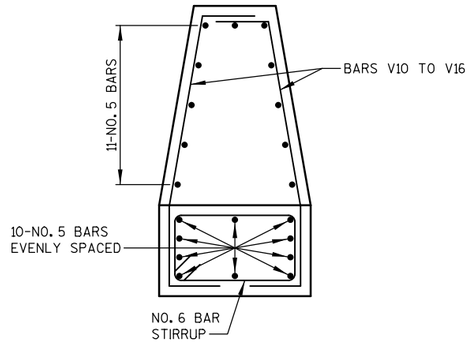
BAR BENDING DETAIL
FOR BARS V10 - V16



BAR DETAIL
BARS V1 - V9



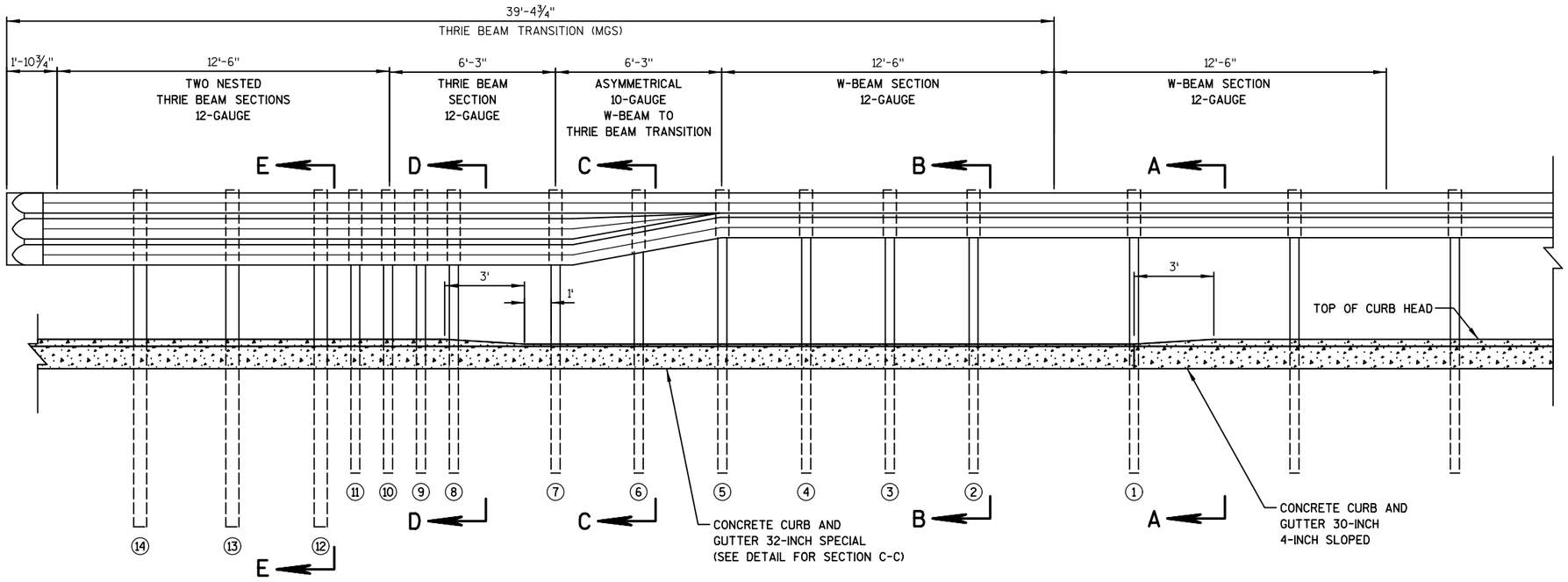
STIRRUP BAR
BENDING DETAIL



BAR DETAIL
BARS V10 - V16

CONCRETE BARRIER TRANSITION P32-S42 SPECIAL

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONCRETE BARRIER TRANSITION SPECIAL	SHEET 50	E



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION WITH CONCRETE CURB AND GUTTER

Ⓑ WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

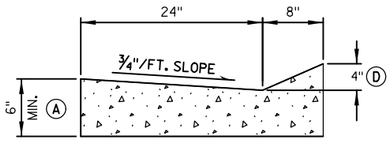
Ⓒ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1".

Ⓓ DEPRESS 4-INCH CURB HEAD TO 1-INCH AT ASYMMETRICAL AND W-BEAM SECTIONS OF THRIE BEAM TRANSITION.

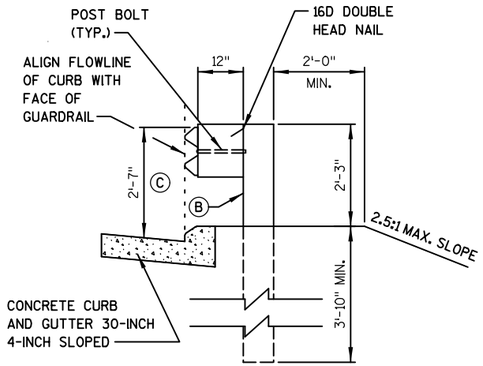
UTILIZE INLET COVER TYPE V, PLACED ON INLETS TYPE 1 WHEN A DRAINAGE STRUCTURE IS REQUIRED. THE TYPICAL LOCATION FOR THE DRAINAGE STRUCTURE IS WHERE THE POST SPACING IS 3'-1½".

SEE MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL AND MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) DETAILS WHEN NECESSARY

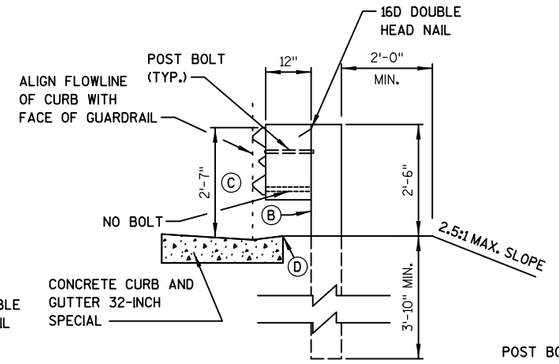
Ⓐ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.



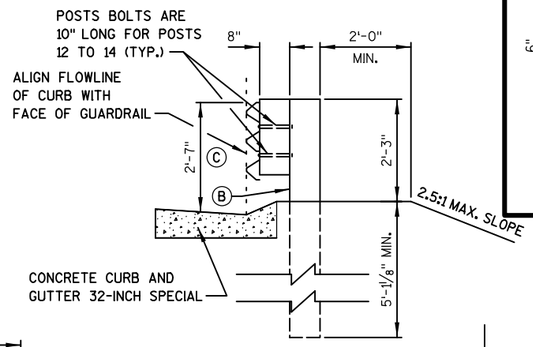
CONCRETE CURB AND GUTTER 32-INCH SPECIAL



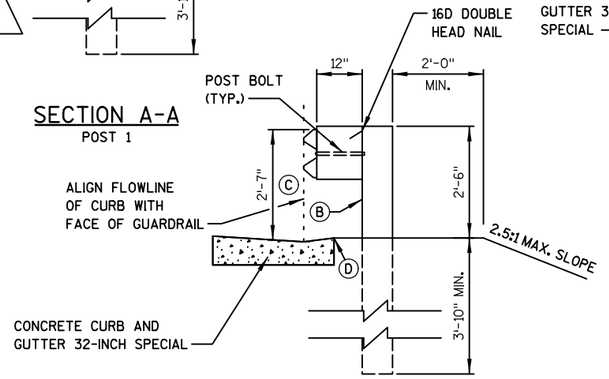
SECTION A-A
POST 1



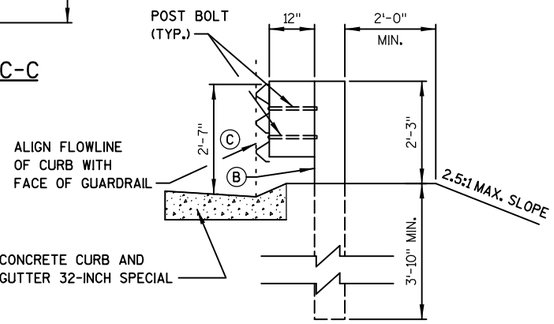
SECTION C-C
POST 6



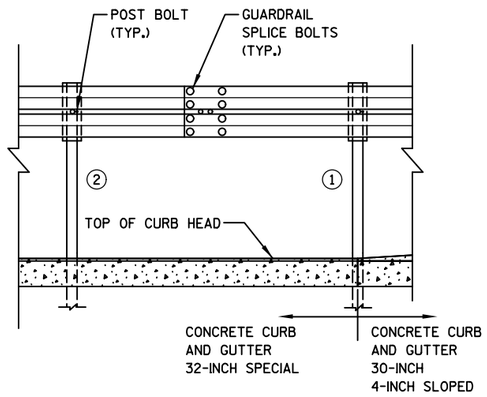
SECTION E-E
POSTS 12-14



SECTION B-B
POSTS 2-5



SECTION D-D
POSTS 7-11

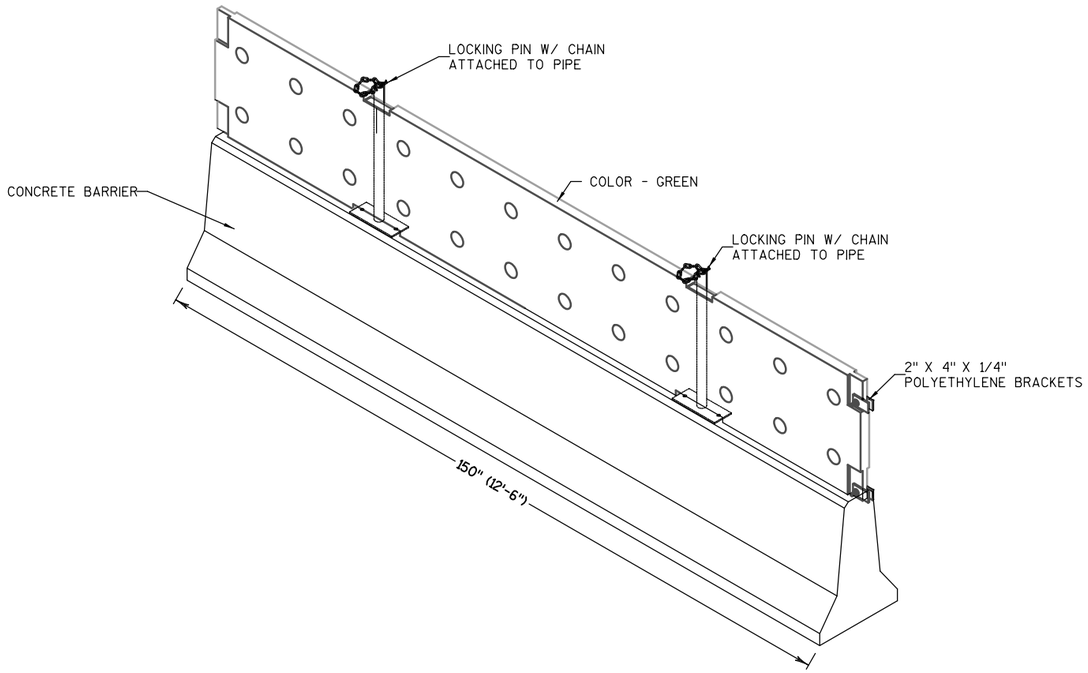


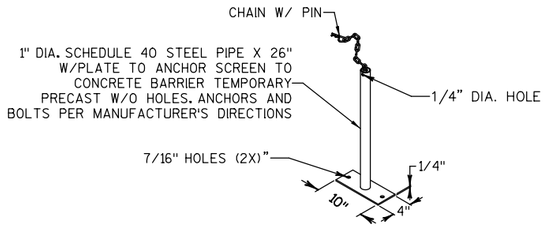
SPLICE DETAIL

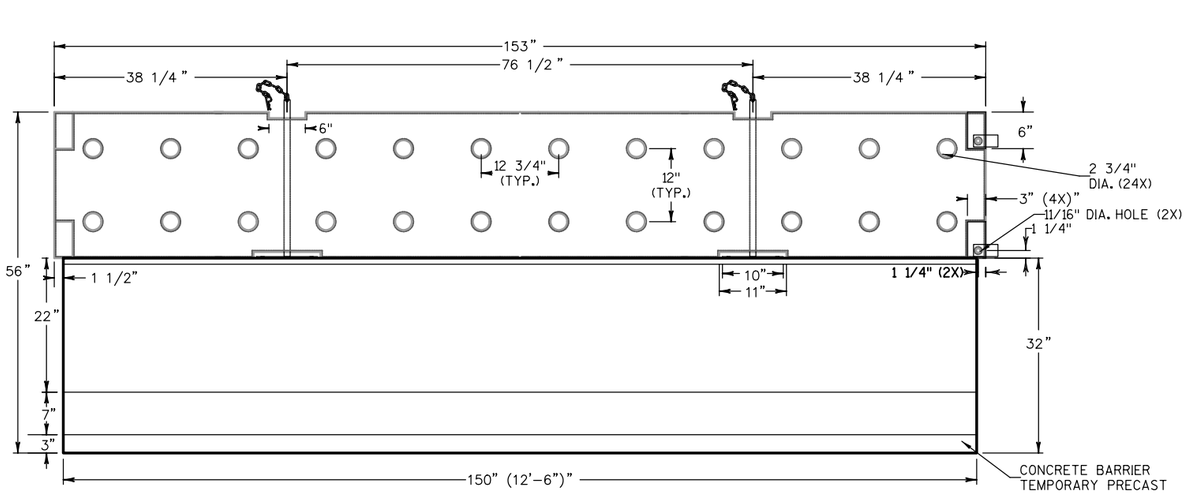
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	THRIE BEAM TRANSITION DETAIL	SHEET	E

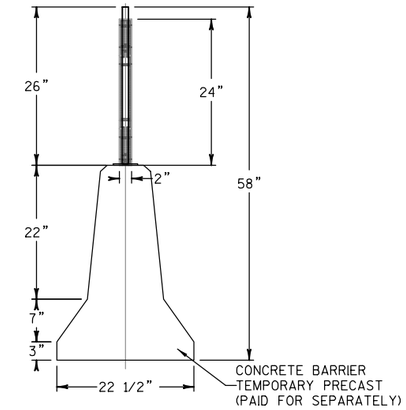
FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2







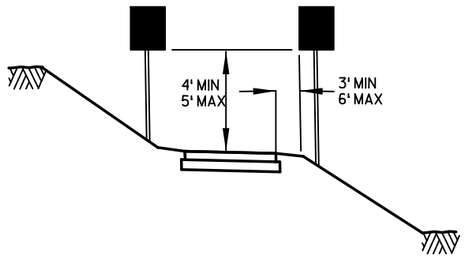


NOTE: DETAIL IS ARMORCAST PART NUMBER P6000963

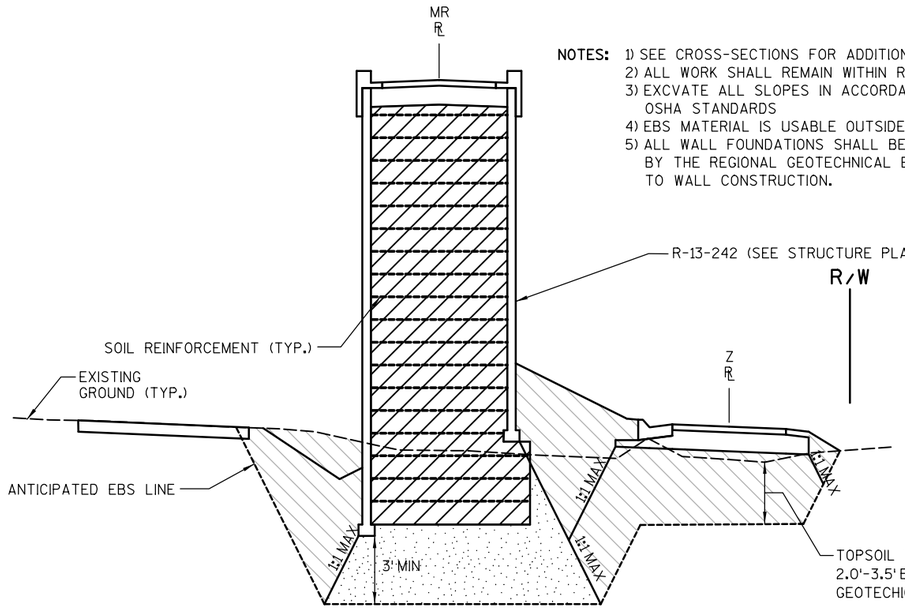
GLARE SCREENS TEMPORARY DETAIL

N.T.S.

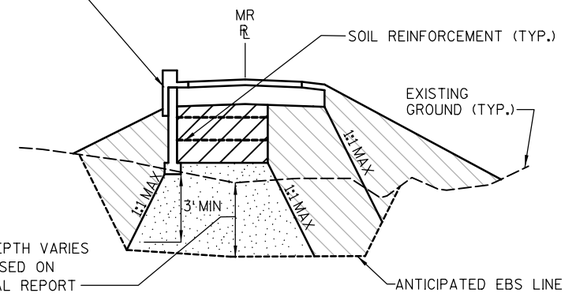
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - GLARE SCREENS TEMPORARY	SHEET 52	E



BIKE PATH - SIGN MOUNTING DETAILS



SOIL REINFORCEMENT ZONE BELOW EXISTING GROUND



SOIL REINFORCEMENT ZONE ABOVE EXISTING GROUND

NOTES:
1) SEE CROSS-SECTIONS FOR ADDITIONAL INFORMATION
2) ALL WORK SHALL REMAIN WITHIN R/W
3) EXCVATE ALL SLOPES IN ACCORDANCE WITH OSHA STANDARDS
4) EBS MATERIAL IS USABLE OUTSIDE THE 1:1 SLOPES
5) ALL WALL FOUNDATIONS SHALL BE APPROVED BY THE REGIONAL GEOTECHNICAL ENGINEER PRIOR TO WALL CONSTRUCTION.

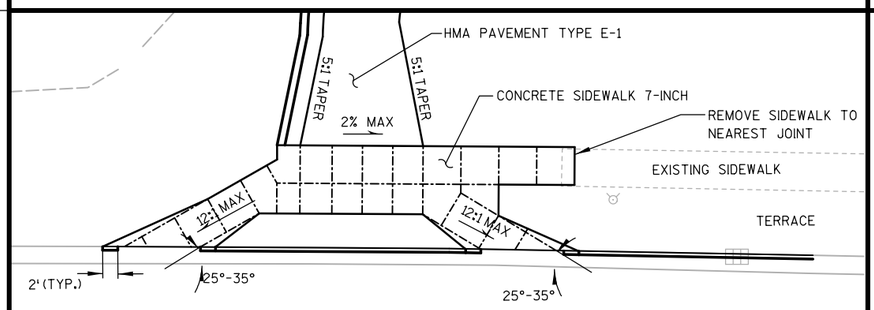
LEGEND

EARTHWORK INCLUDED WITH EXCAVATION COMMON AND BORROW BID ITEMS

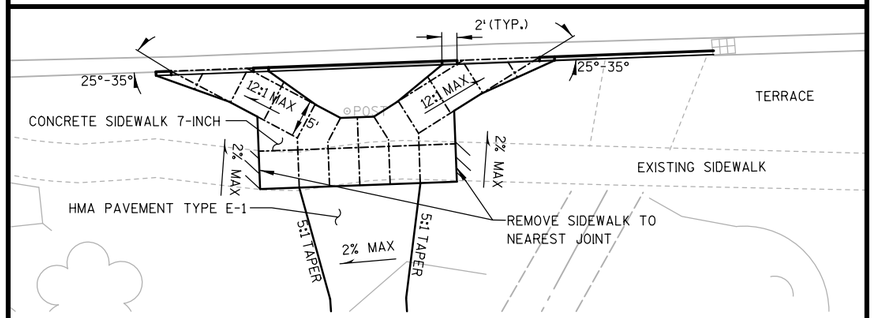
EARTHWORK INCLUDED WITH EXCAVATION COMMON AND BACKFILL GRANULAR BID ITEMS

EARTHWORK AND BACKFILL INCLUDED WITH BID ITEM AND MEETING SPECIFICATIONS OF "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

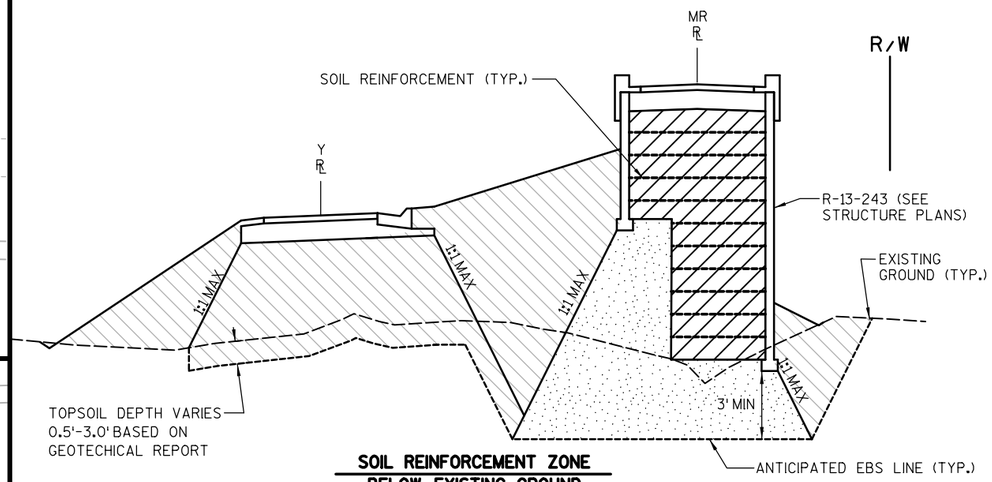
R-13-242 EARTHWORK DETAILS



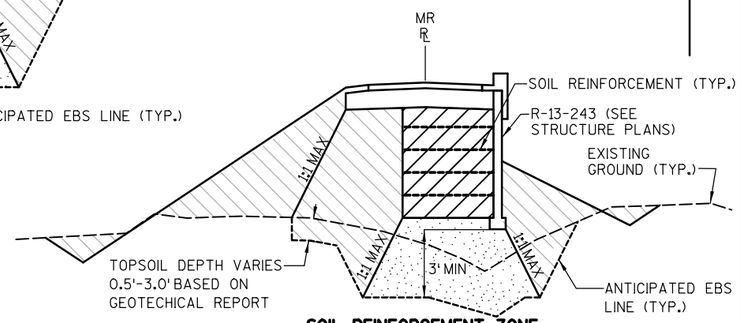
MILITARY RIDGE BIKE RAMP DETAILS - NORTH



MILITARY RIDGE BIKE RAMP DETAILS - SOUTH



SOIL REINFORCEMENT ZONE BELOW EXISTING GROUND



SOIL REINFORCEMENT ZONE ABOVE EXISTING GROUND

NOTES:
1) SEE CROSS-SECTIONS FOR ADDITIONAL INFORMATION
2) ALL WORK SHALL REMAIN WITHIN R/W
3) EXCVATE ALL SLOPES IN ACCORDANCE WITH OSHA STANDARDS
4) EBS MATERIAL IS USABLE OUTSIDE THE 1:1 SLOPES
5) ALL WALL FOUNDATIONS SHALL BE APPROVED BY THE REGIONAL GEOTECHNICAL ENGINEER PRIOR TO WALL CONSTRUCTION.

LEGEND

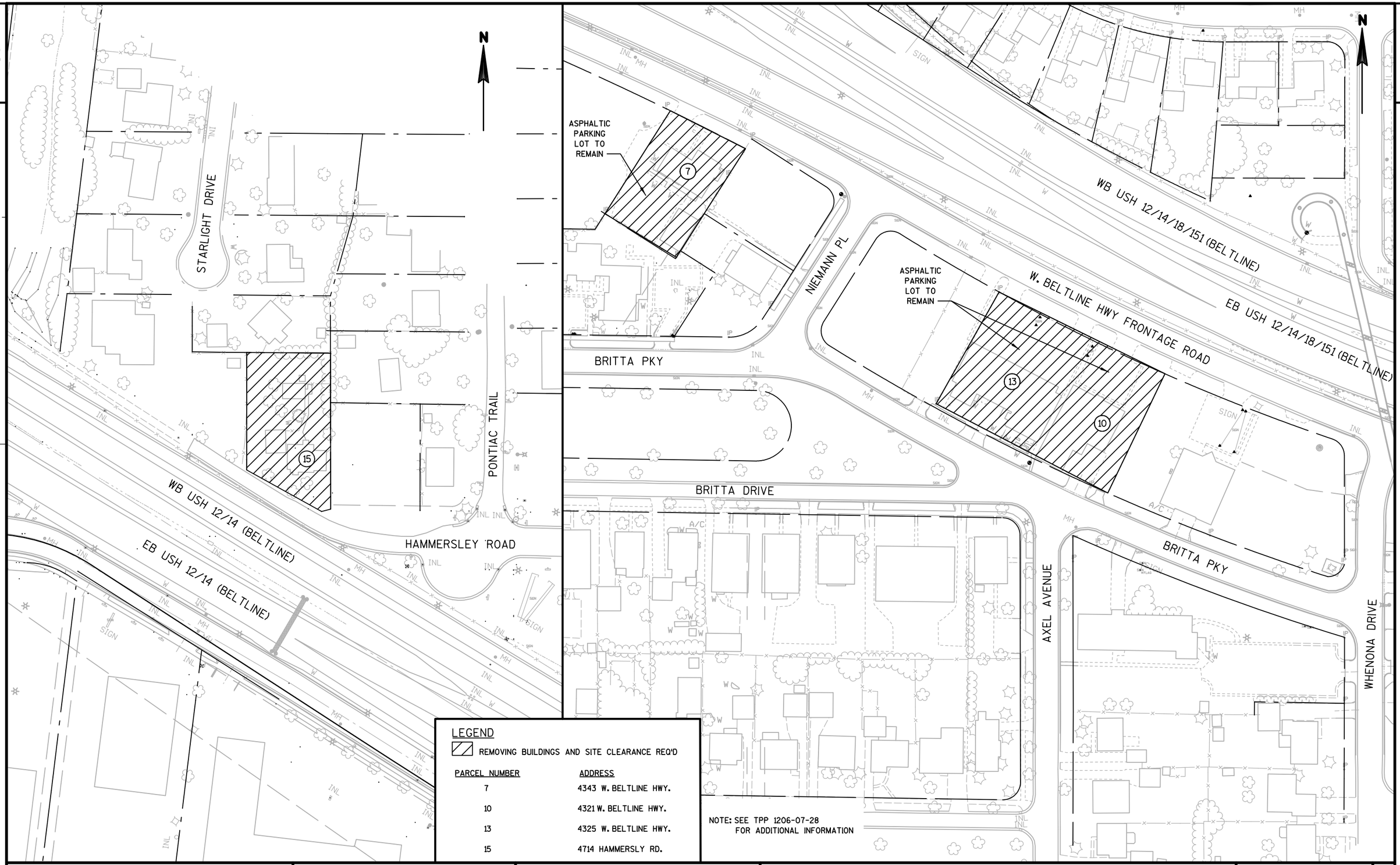
EARTHWORK INCLUDED WITH EXCAVATION COMMON AND BORROW BID ITEMS

EARTHWORK INCLUDED WITH EXCAVATION COMMON AND BACKFILL GRANULAR BID ITEMS

EARTHWORK AND BACKFILL INCLUDED WITH BID ITEM AND MEETING SPECIFICATIONS OF "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

R-13-243 EARTHWORK DETAILS

PROJECT NO: 1206-07-83	HWY: US 18	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 53	E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - REMOVING BUILDING AND SITE CLEARANCE	SHEET 54	E

POTENTIAL MONITORING WELLS
TO BE ABANDONED BY OTHERS
(TYP. OF 13)

MONITORING WELL
TO BE ABANDONED
BY OTHERS
(TYP. OF 2)

MONITORING WELL
TO BE ABANDONED
BY OTHERS
(TYP. OF 2)

WEST VERONA ROAD FRONTAGE ROAD

SUMMIT ROAD

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

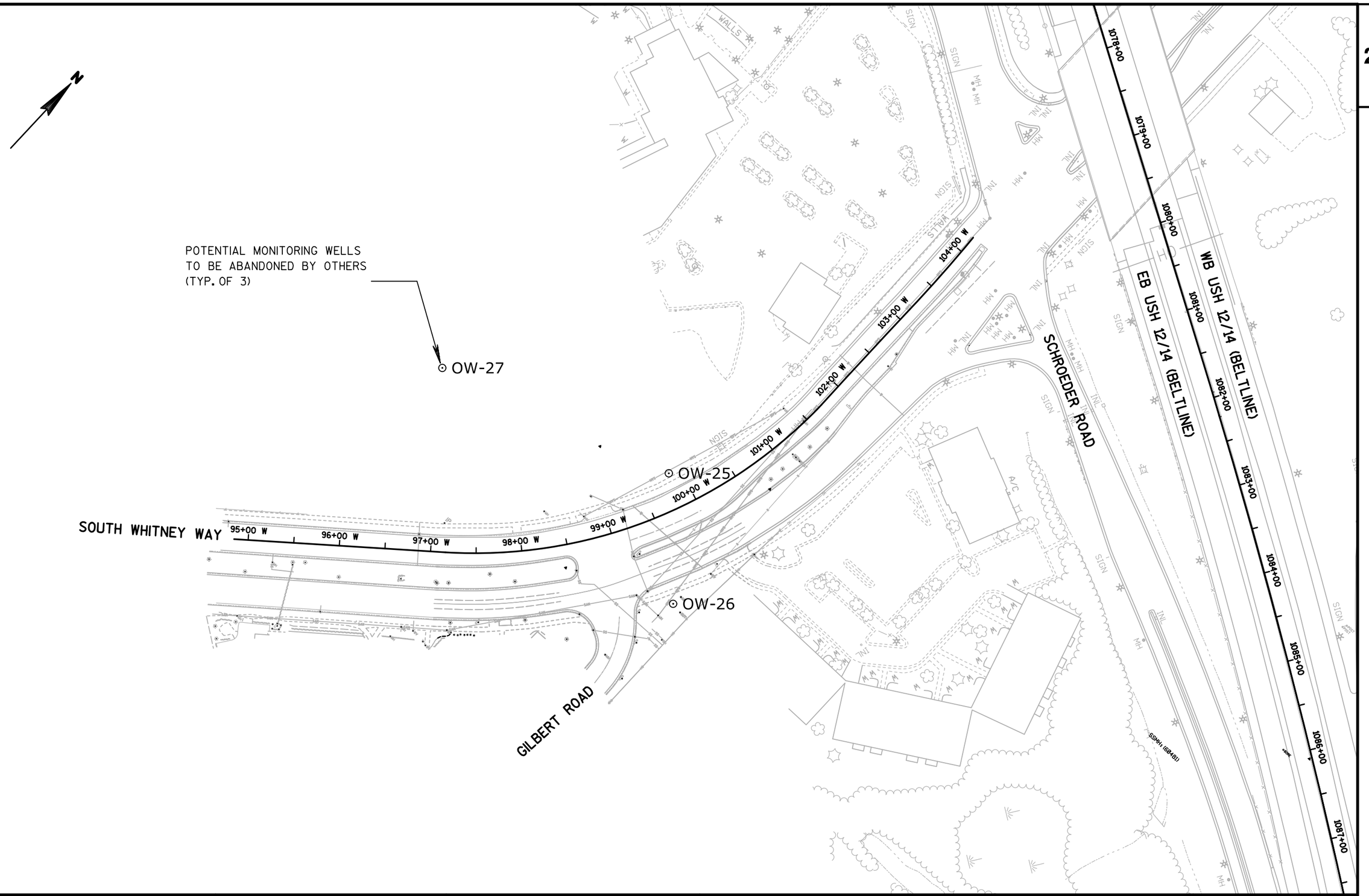
WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

AI-5 · AI-6 · DB-6 · PWT-1 · AI-7 · DB-7 · AI-10 · EW-11 · AI-8 · DB-8 · DB-12 · AI-12 · AI-15 · MW 1-1 · MW 1-2 · MW 1-3 · MW 2-2

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	MONITORING WELL APPROXIMATE LOCATIONS	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021022_cd_Monitoring_Wells.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	MONITORING WELLS APPROXIMATE LOCATIONS	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021023_cd_Monitoring_Wells.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

CONTAMINATED SOILS NOTES:

(1) REFER TO THE MATERIALS HANDLING PLAN REGARDING RESTRICTIONS OF REUSE FOR CONTAMINATED SOIL. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

SOUTHWEST BIKE PATH

RETAINING WALL R-13-204

APPROXIMATE EXTENT OF SOIL CONTAMINATION EXCEEDING RESIDUAL CONTAMINANT LEVEL (RCL) BASED ON PREVIOUS SITE INVESTIGATION BY PROPERTY OWNER

DETENTION BASIN A

APPROXIMATE EXISTING SOIL CAP EXTENTS

VERONA ROAD FRONTAGE RD.

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

N

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONTAMINATED SOILS IDENTIFICATION	SHEET E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021024_cd_Contamination.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

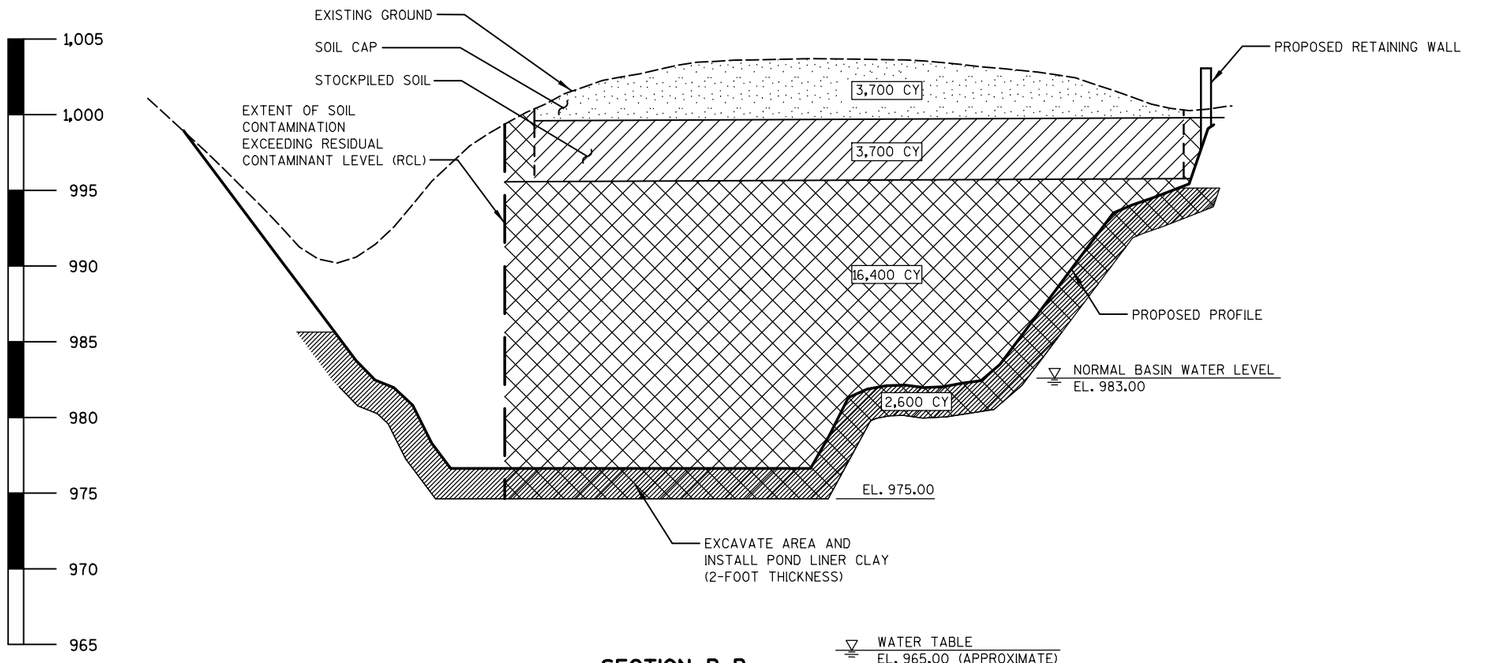
LEGEND

DEPTH OF 0'-4', CLEAN SOILS WITH NO RESTRICTIONS ON REUSE

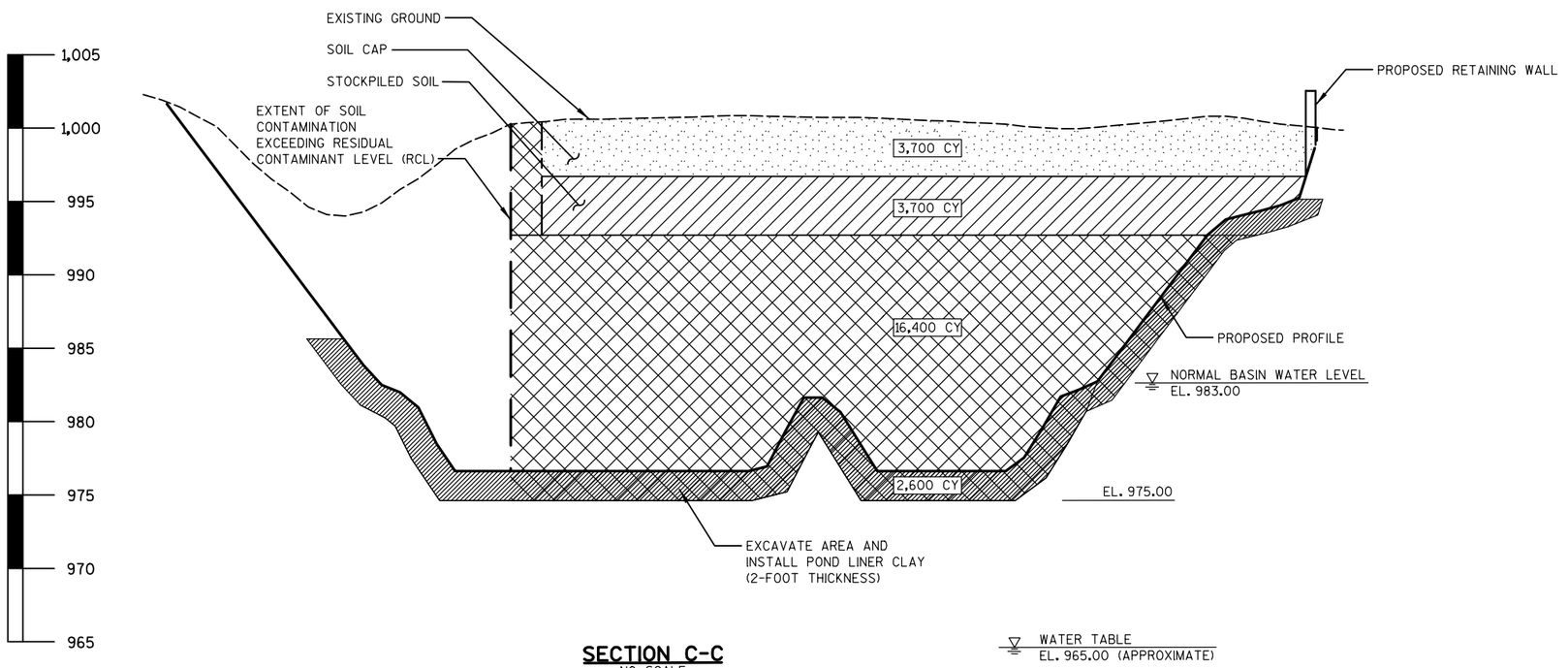
DEPTH OF 4'-8', CONTAMINATED SOILS WITH RESTRICTIONS ON REUSE

DEPTH >8', MIXTURE OF CLEAN AND CONTAMINATED SOILS WITH RESTRICTIONS ON REUSE

X,XXX CY APPROXIMATE VOLUME OF MATERIAL TO BE EXCAVATED



SECTION B-B
NO SCALE



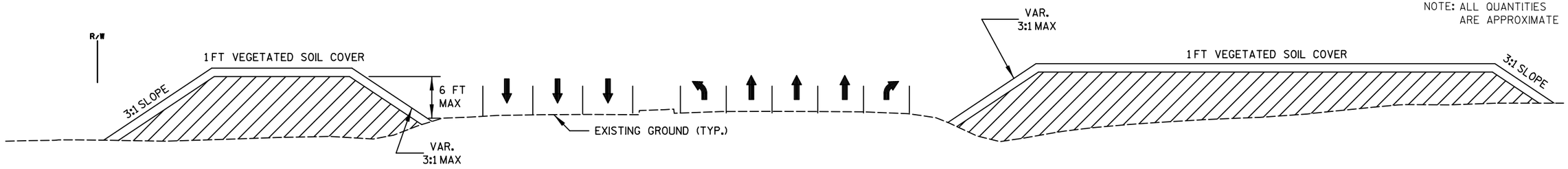
SECTION C-C
NO SCALE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONTAMINATED SOILS IDENTIFICATION	SHEET 58	E

TEMPORARY STOCKPILE VOLUME TABLE	
LOCATION	EXPANDED VOLUME (1.25)
1	3,500 CY
2	8,000 CY
3	2,900 CY
4	7,900 CY
TOTAL AVAILABLE VOLUME	22,300 CY

NOTE: ALL QUANTITIES ARE APPROXIMATE

TEMPORARY STOCKPILE LOCATIONS TO BE FILLED WITH EXCAVATION SPECIAL

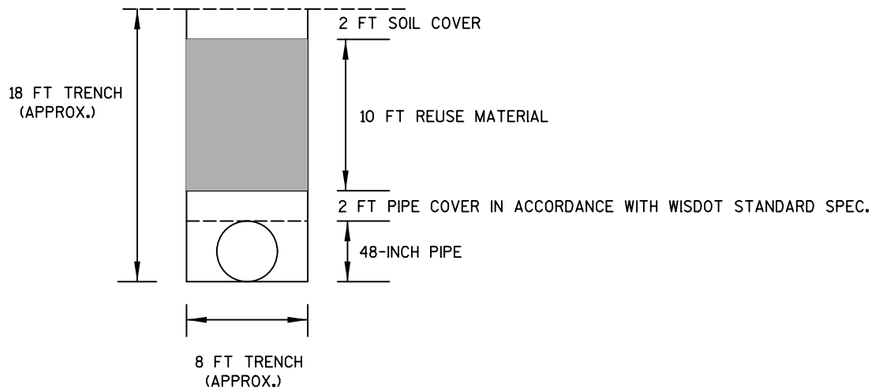


VERONA ROAD TEMPORARY STOCKPILE
983+50 VR - 991+50 VR
SECTION C-C

NOTE: SEE CROSS SECTIONS AND EARTH WORK DATA FOR ADDITIONAL INFORMATION

NOT TO SCALE

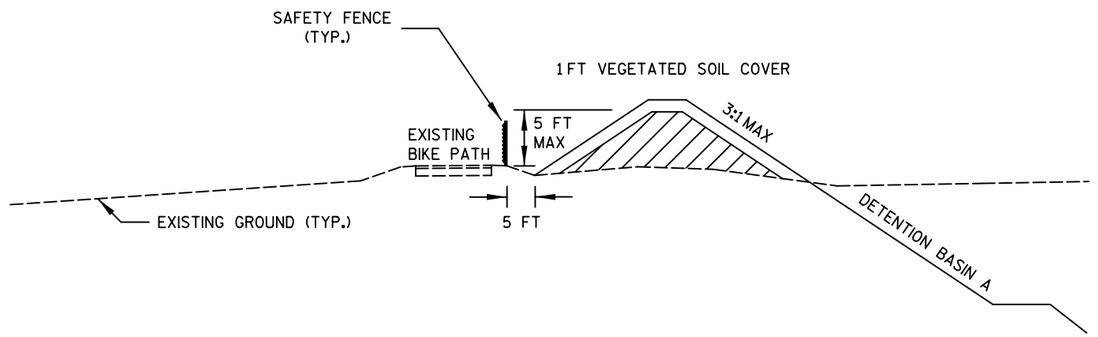
REUSE IN STORM SEWER TRENCH TO BE FILLED WITH EXCAVATION SPECIAL



STORM SEWER TRUNKLINE RE-USE LOCATION
981+25 VR - 987+00 VR

NOT TO SCALE

TEMPORARY STOCKPILE LOCATIONS TO BE FILLED WITH EXCAVATION SPECIAL



SOUTHWEST COMMUTER PATH TEMPORARY STOCKPILE
SECTION D-D

NOT TO SCALE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONTAMINATED SOILS STOCKPILES	SHEET 59	E

LEGEND

TEMPORARY STOCKPILE LOCATIONS

REUSE LOCATIONS

TEMPORARY STOCKPILE VOLUME TABLE	
LOCATION	EXPANDED VOLUME (1.25)
1	3,500 CY
2	8,000 CY
3	2,900 CY
4	7,900 CY
TOTAL AVAILABLE VOLUME	22,300 CY

NOTE: ALL QUANTITIES
ARE APPROXIMATE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - CONTAMINATED SOILS STOCKPILES	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021027_cd_Contamination.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

BASIN LAYOUT COORDINATES		
POINT	NORTHING	EASTING
A1	467,831.57	801,109.88
A2	467,847.91	801,120.45
A3	467,851.05	801,139.65
A4	467,837.71	801,267.65
A5	467,827.07	801,290.15
A6	467,817.89	801,297.13
A7	467,798.46	801,302.46
A8	467,780.75	801,292.86
A9	467,738.13	801,242.14
A10	467,690.79	801,200.59
A11	467,653.50	801,160.18
A12	467,641.46	801,142.01
A13	467,635.95	801,120.93
A14	467,644.65	801,100.16
A15	467,666.72	801,095.74
A16	467,690.36	801,100.99
A17	467,714.50	801,102.79
A18	467,775.81	801,102.92
A19	467,799.17	801,104.77
A20	467,836.63	801,200.46

NOTES:

1. MAXIMUM VEHICLE WEIGHT OF 1 TON IS ALLOWED OVER THE ATC UTILITY LINE.
2. NO STORING OF MATERIALS OR EQUIPMENT OVER THE ATC UTILITY LINE WILL BE ALLOWED.
3. KEEP ROADWAY/PARKING LOT CLEAN BY STREET SWEEPING AT END OF EACH WORKING DAY OR WHEN REQUESTED BY THE ENGINEER.

VR348
MANHOLES 5-FT DIA.
TYPE J CASTING
RIM=995.00
IE 30" N=983.20
IE 30" SE=983.20

REMOVING STORM SEWER 30-INCH

EXISTING MANHOLES TO REMAIN

CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D

VR348.2
APRON ENDWALL FOR CULVERT
PIPE REINFORCED CONCRETE 30-INCH
W/ PIPE GRATE AND CUT OFF WALL
IE=983.00

VR348.3

VR348.4

VR348.5
APRON ENDWALL FOR CULVERT
PIPE REINFORCED CONCRETE 12-INCH
W/PIPE GRATE AND CUT OFF WALL
IE = 983.00

RETAINING WALL R-13-204

RIPRAP HEAVY

VR340.1
APRON ENDWALL FOR CULVERT
PIPE REINFORCED CONCRETE 66-INCH
W/ PIPE GRATE AND CUT OFF WALL
IE=983.00

10+00 UH
+50 UH
11+00 UH
+50 UH
12+00 UH
+50 UH
13+00 UH
+50 UH

SOUTHWEST COMMUTER BIKE PATH

DETENTION BASIN A

RIPRAP MEDIUM

RIPRAP MEDIUM

CLAY ANTI-SEEPAGE COLLAR REQ'D

CITY OF MADISON SANITARY MANHOLE TO REMAIN

VR342.2
APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH W/ PIPE GRATE AND CUTOFF WALL
IE=983.00

VR344.1
(SEE DETAILS)

RIPRAP MEDIUM

APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE 60-INCH W/ PIPE GRATE (SPECIAL)
IE=983.00

REMOVING MANHOLES REQ'D

ATC

REMOVING STORM SEWER 24-INCH AND SEALING PIPES

VR344
MANHOLES 8-FT DIA.
TYPE J CASTING
RIM=994.00
IE 60" N=982.94
IE 60" S=982.94

CLAY ANTI-SEEPAGE COLLAR REQ'D

CLAY ANTI-SEEPAGE COLLAR REQ'D

EE340.2
EE340
EE340.3

93+00 EE
+50 EE
94+00 EE
+50 EE
95+00 EE
21+00 FP
96+00 EE
97+00 EE
98+00 EE
99+00 EE
+50 EE
+50 FE

W. VERONA ROAD FRONTAGE RD.

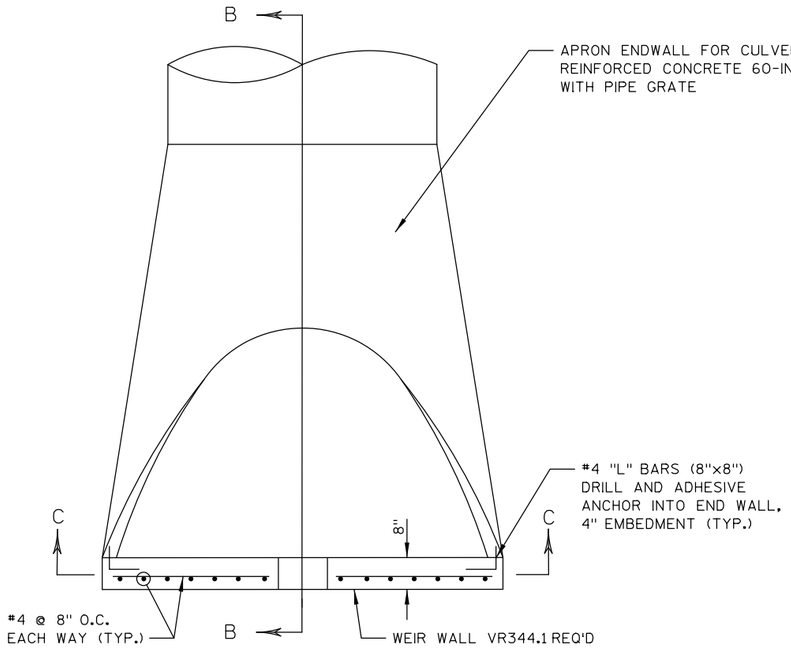
WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

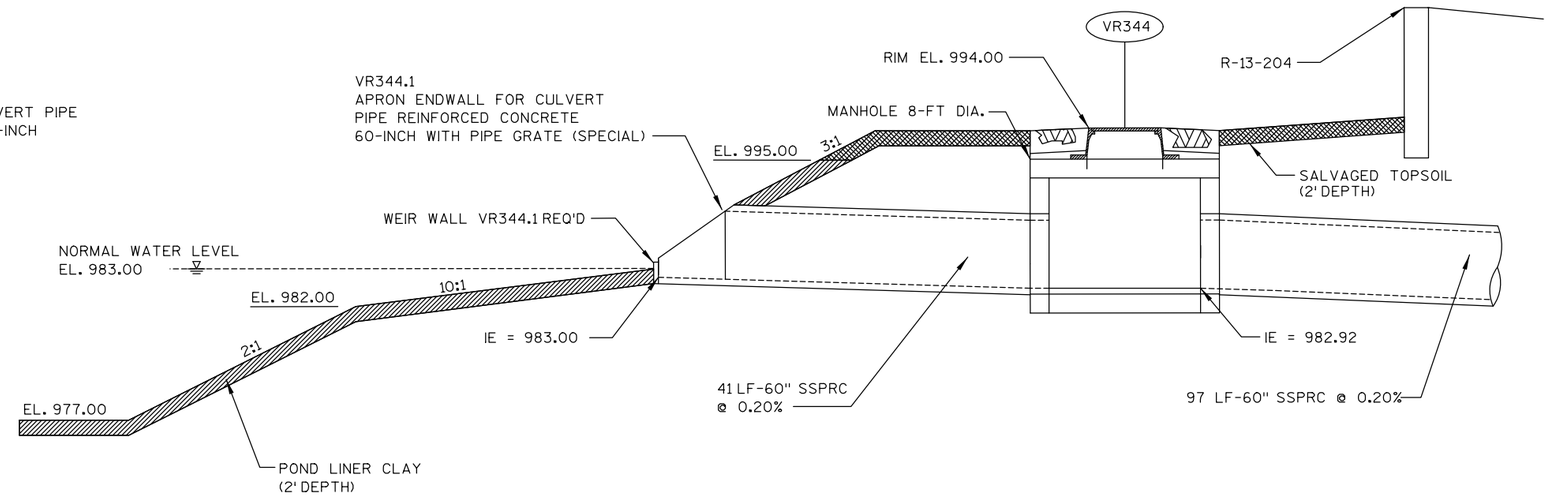
980+00 VR
+50 VR
981+00 VR

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - WET DETENTION BASIN A	SHEET	E

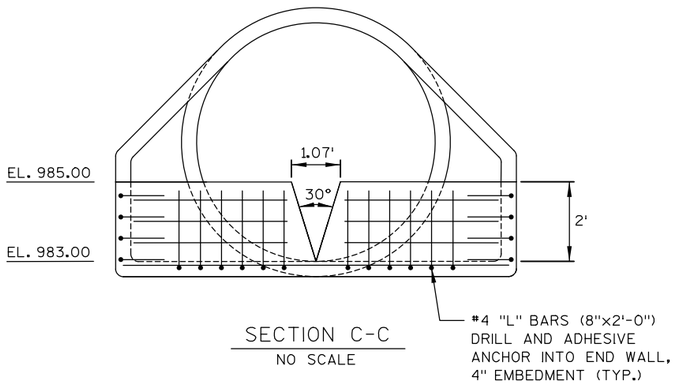
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PLAN VIEW VR344.1
NO SCALE

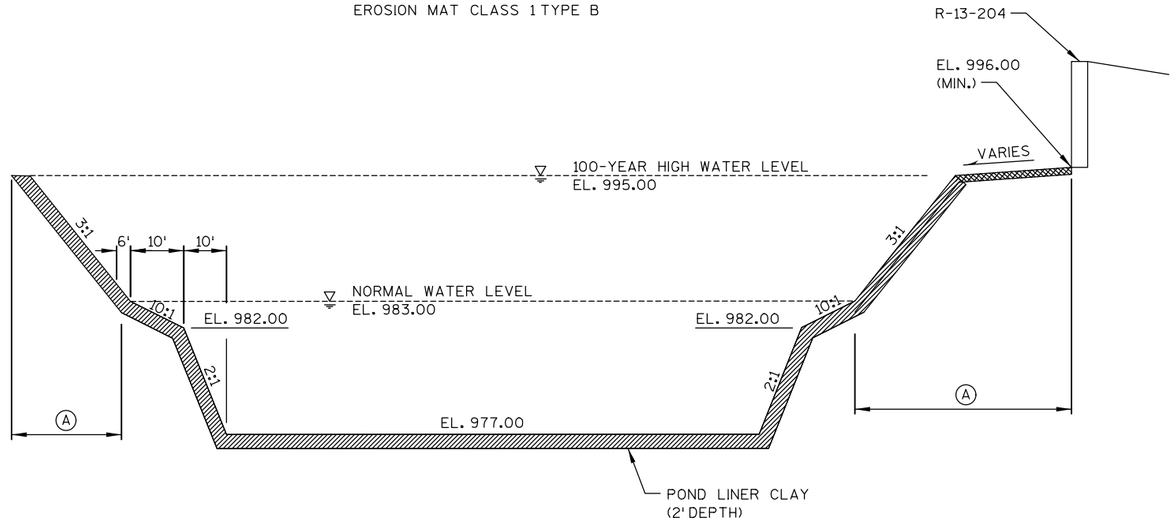


SECTION B-B
NO SCALE



SECTION C-C
NO SCALE

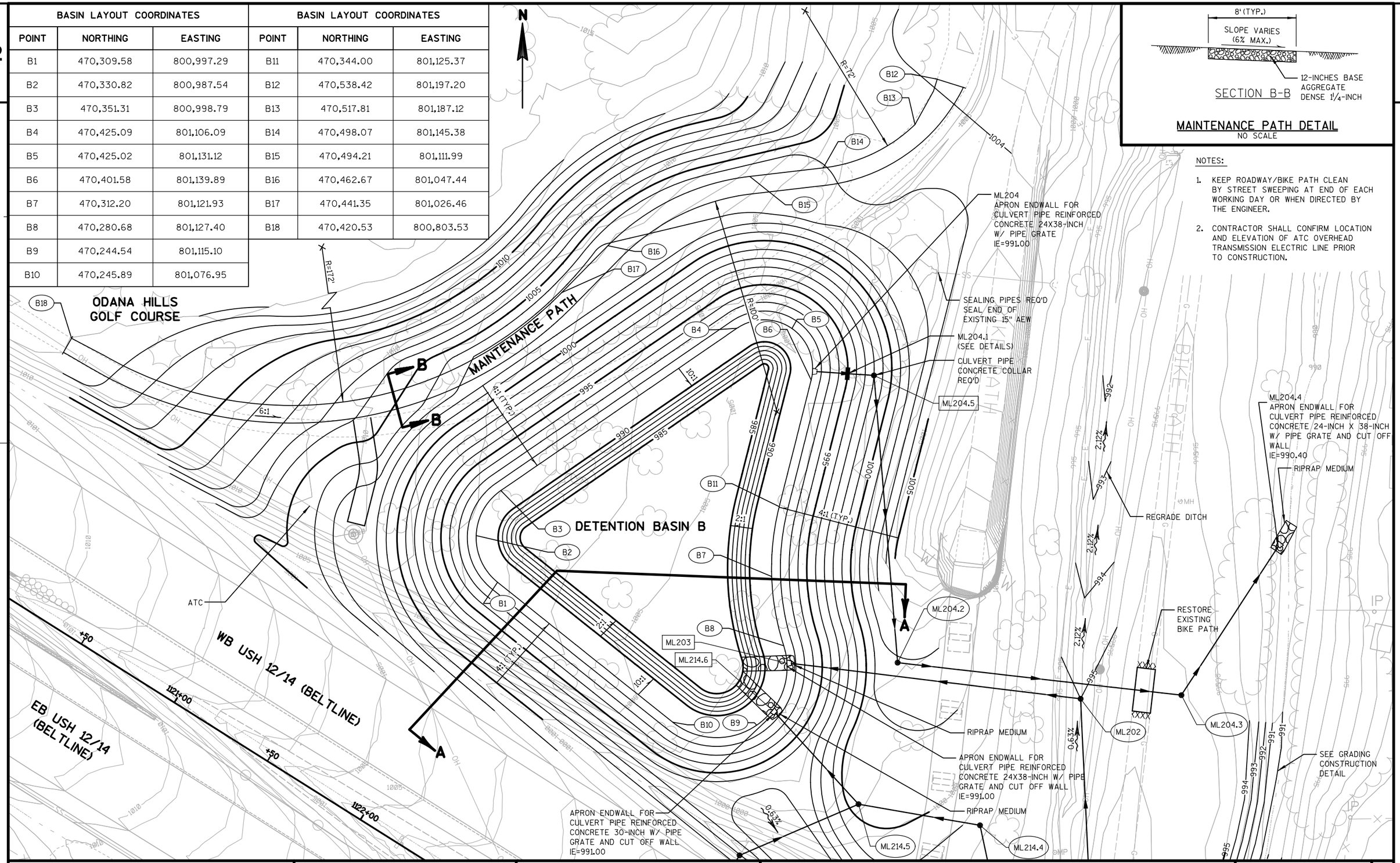
Ⓐ SALVAGED TOPSOIL (2' DEPTH), FERTILIZER TYPE B, SEEDING MIXTURE WET DETENTION BASIN, SEEDING TEMPORARY, EROSION MAT CLASS 1 TYPE B



SECTION A-A
NO SCALE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - WET DETENTION BASIN A	SHEET 62	E

BASIN LAYOUT COORDINATES			BASIN LAYOUT COORDINATES		
POINT	NORTHING	EASTING	POINT	NORTHING	EASTING
B1	470,309.58	800,997.29	B11	470,344.00	801,125.37
B2	470,330.82	800,987.54	B12	470,538.42	801,197.20
B3	470,351.31	800,998.79	B13	470,517.81	801,187.12
B4	470,425.09	801,106.09	B14	470,498.07	801,145.38
B5	470,425.02	801,131.12	B15	470,494.21	801,111.99
B6	470,401.58	801,139.89	B16	470,462.67	801,047.44
B7	470,312.20	801,121.93	B17	470,441.35	801,026.46
B8	470,280.68	801,127.40	B18	470,420.53	800,803.53
B9	470,244.54	801,115.10			
B10	470,245.89	801,076.95			



8' (TYP.)
SLOPE VARIES (6% MAX.)
12-INCHES BASE AGGREGATE DENSE 1¼-INCH
SECTION B-B

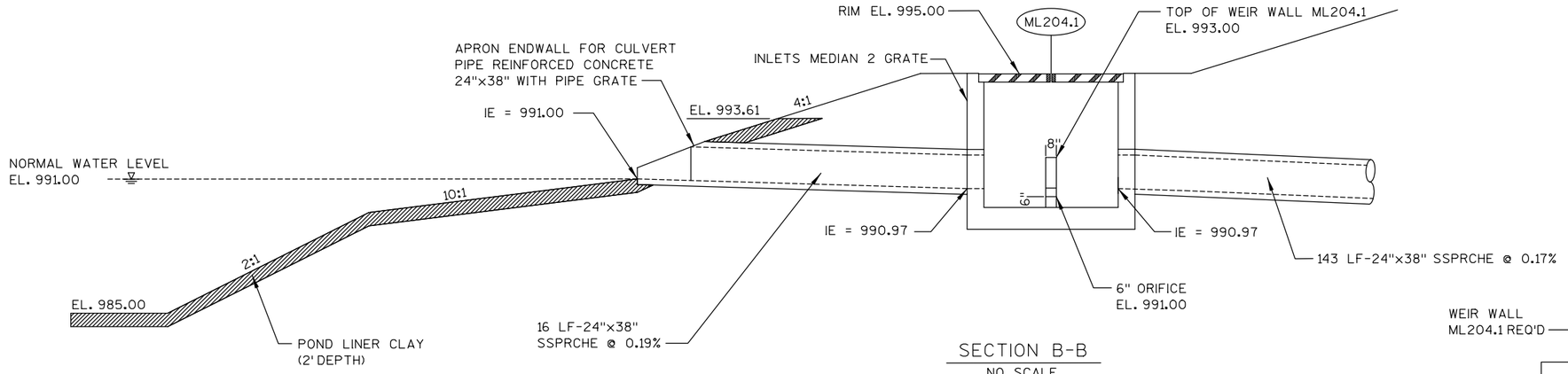
MAINTENANCE PATH DETAIL
NO SCALE

NOTES:

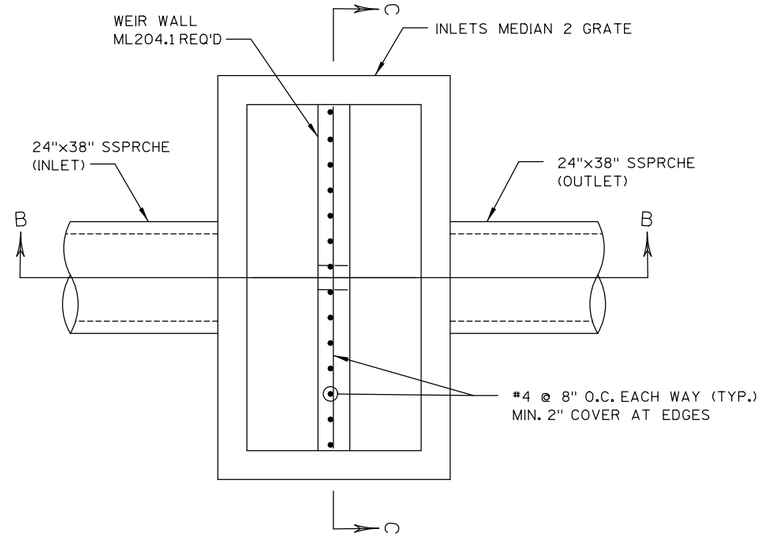
1. KEEP ROADWAY/BIKE PATH CLEAN BY STREET SWEEPING AT END OF EACH WORKING DAY OR WHEN DIRECTED BY THE ENGINEER.
2. CONTRACTOR SHALL CONFIRM LOCATION AND ELEVATION OF ATC OVERHEAD TRANSMISSION ELECTRIC LINE PRIOR TO CONSTRUCTION.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - WET DETENTION BASIN B	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021030_cd_PondB.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

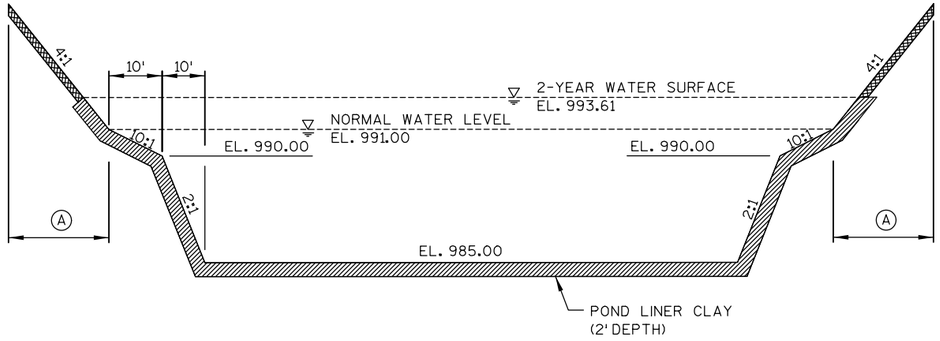


SECTION B-B
NO SCALE

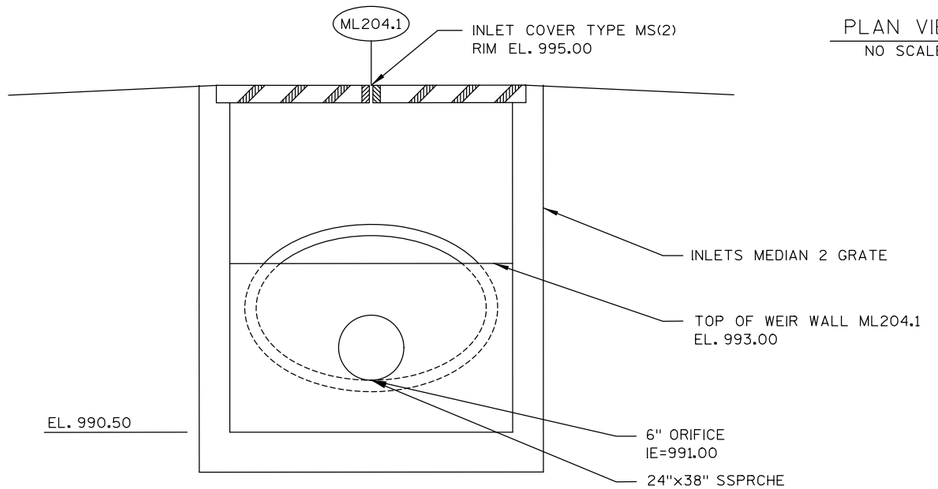


PLAN VIEW
NO SCALE

Ⓐ SALVAGED TOPSOIL (6" DEPTH), FERTILIZER TYPE B, SEEDING MIXTURE WET DETENTION BASIN, SEEDING TEMPORARY, EROSION MAT CLASS 1 TYPE B

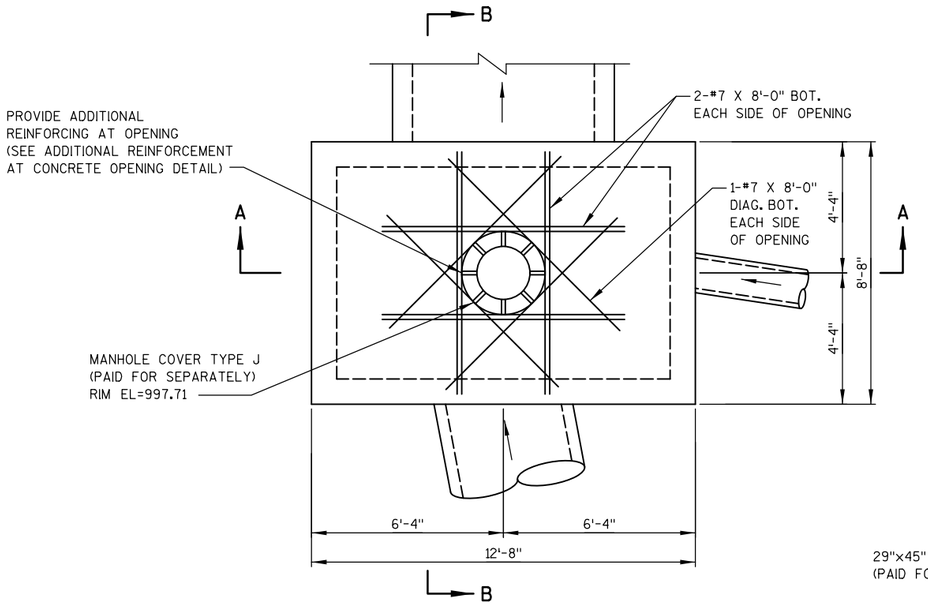


SECTION A-A
NO SCALE

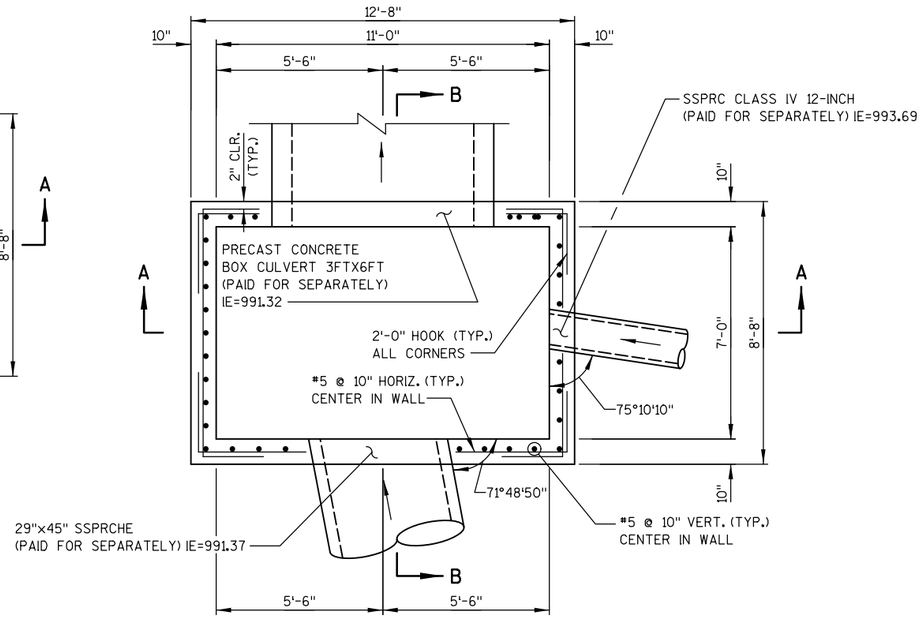


SECTION C-C
NO SCALE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - WET DETENTION BASIN B	SHEET 64	E



TOP PLAN



LOWER PLAN

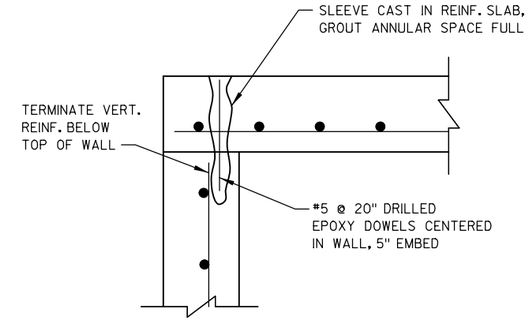
NOTE:
GROUT THE TEMPORARY 12" CONCRETE PIPE FULL WHEN IT IS NO LONGER REQUIRED FOR TEMPORARY SERVICE. WORK PAID FOR BY SEALING PIPES.

GENERAL NOTES:
1. ALL ITEMS SHOWN IN THIS DETAIL ARE INCLUDED UNDER THE PAY ITEM MANHOLE ML215 UNLESS STATED OTHERWISE.

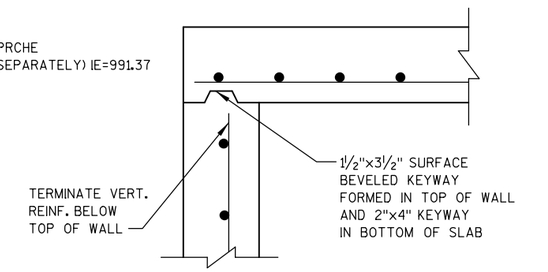
2. IF CONTRACTOR WISHES TO CAST TOP SLAB OR GROUND AND LIFT ONTO TOP OF WALLS, USE ONE OF THE ALTERNATE ROOF AND WALL JOINT DETAILS.

DESIGN DATA:

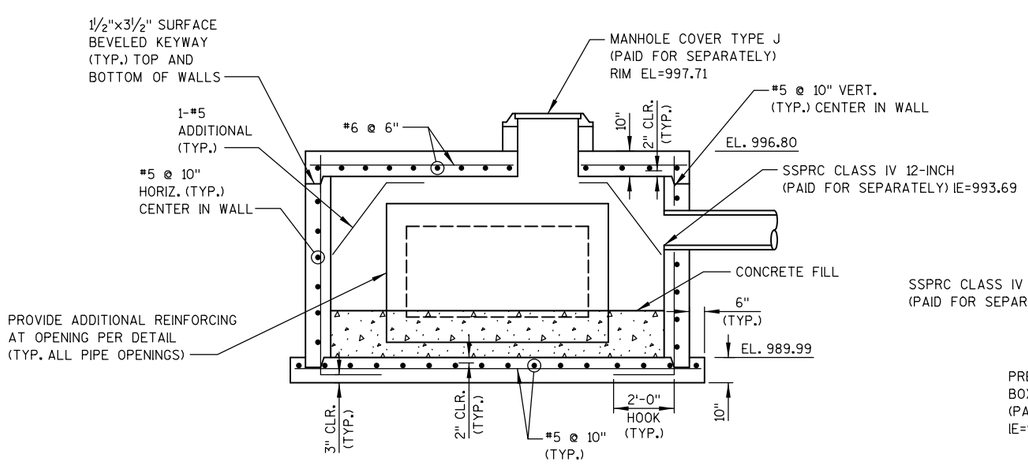
CONCRETE MASONRY: f'c = 4000 psi
STEEL REINFORCING: Fy = 60 ksi



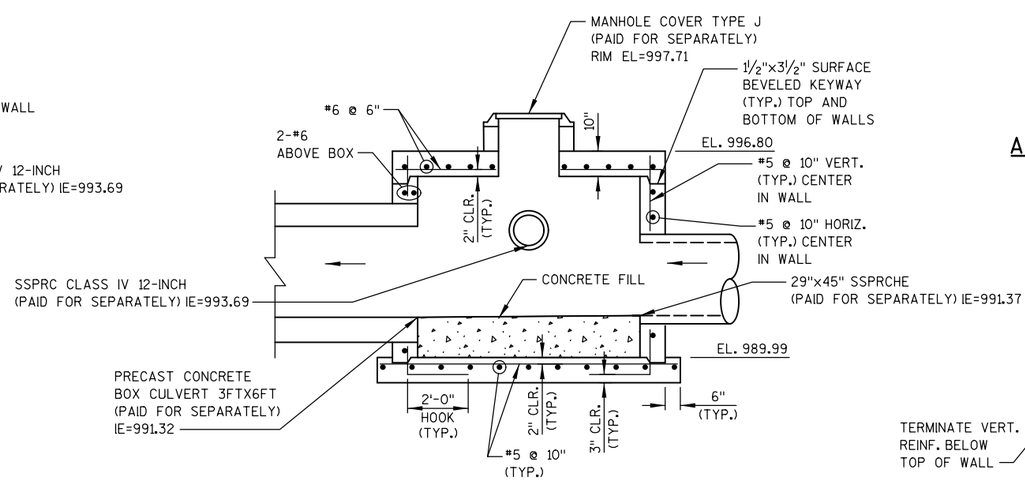
ALTERNATE REINFORCING WALL JOINT DETAIL - 1



ALTERNATE REINFORCING WALL JOINT DETAIL - 2



SECTION A-A

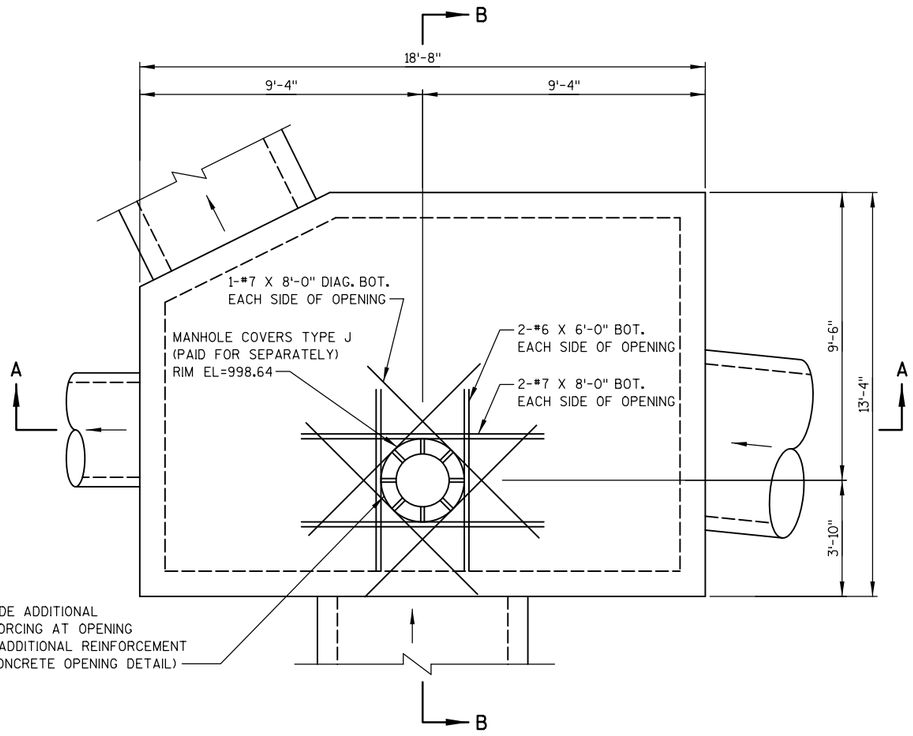


SECTION B-B

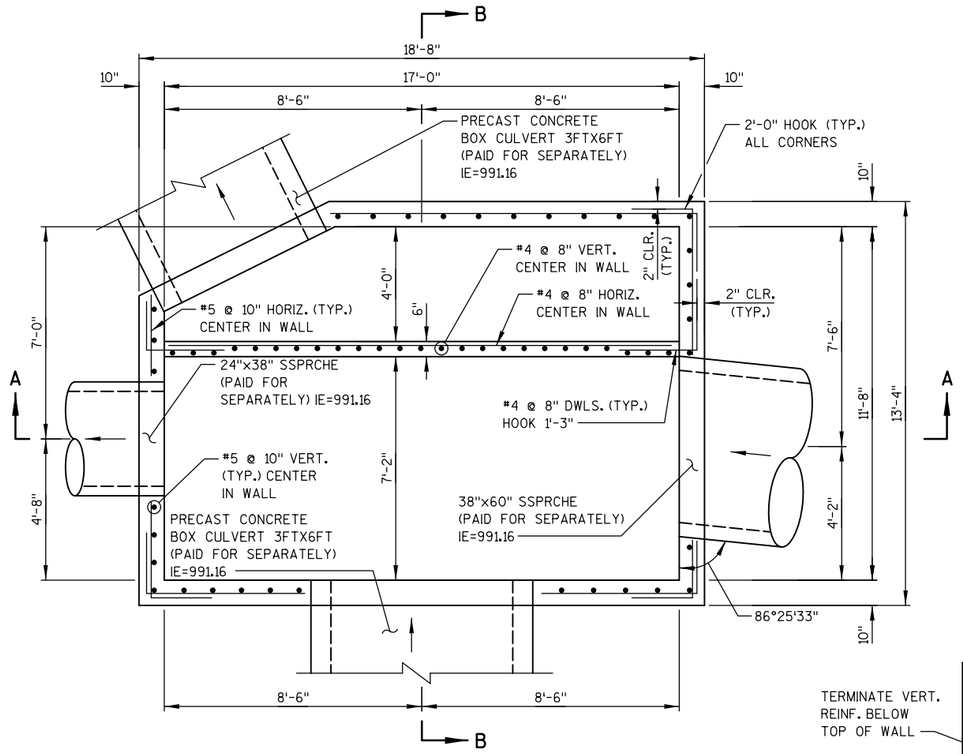
MANHOLE ML215

STA. 1126+45.53, 79.2'RT

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAIL - MANHOLE ML215	SHEET 65	E



TOP PLAN



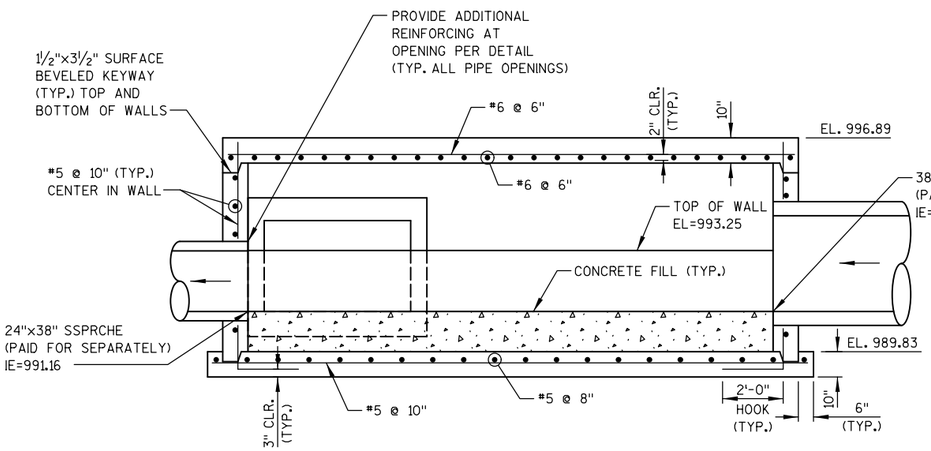
LOWER PLAN

GENERAL NOTES:

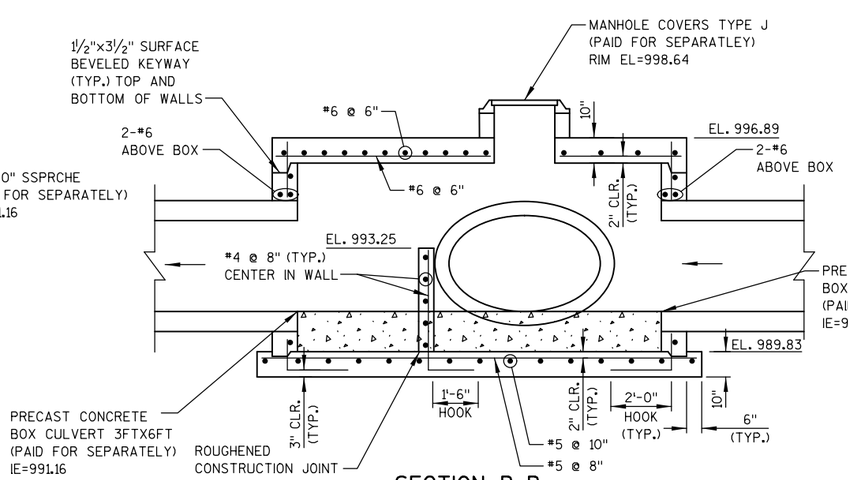
1. ALL ITEMS SHOWN IN THIS DETAIL ARE INCLUDED UNDER THE PAY ITEM MANHOLE ML205 UNLESS STATED OTHERWISE.
2. IF CONTRACTOR WISHES TO CAST TOP SLAB OR GROUND AND LIFT ONTO TOP OF WALLS, USE ONE OF THE ALTERNATE ROOF AND WALL JOINT DETAILS.

DESIGN DATA:

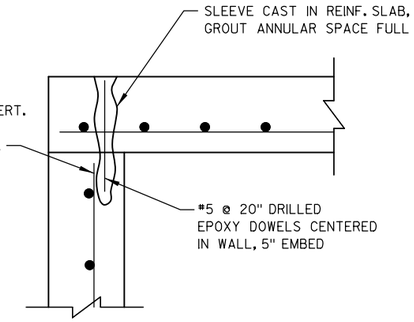
CONCRETE MASONRY: f'c = 4000 psi
STEEL REINFORCING: Fy = 60 ksi



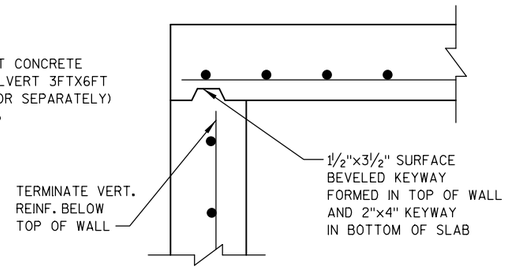
SECTION A-A



SECTION B-B



ALTERNATE REINFORCING WALL JOINT DETAIL - 1

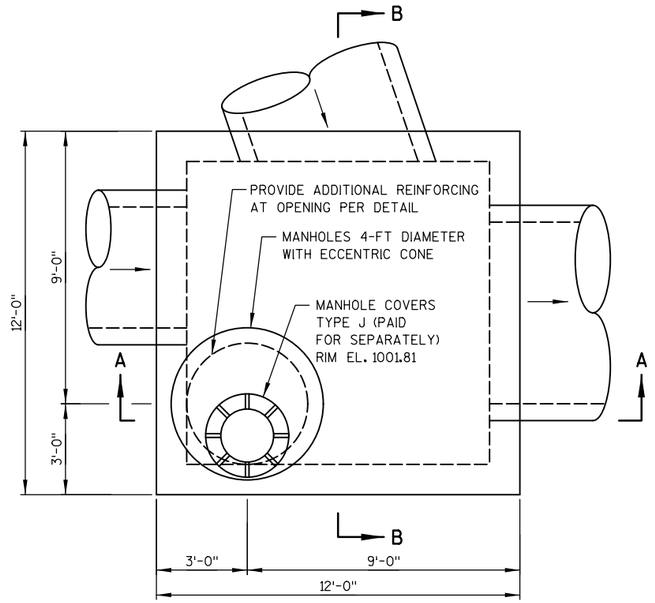


ALTERNATE REINFORCING WALL JOINT DETAIL - 2

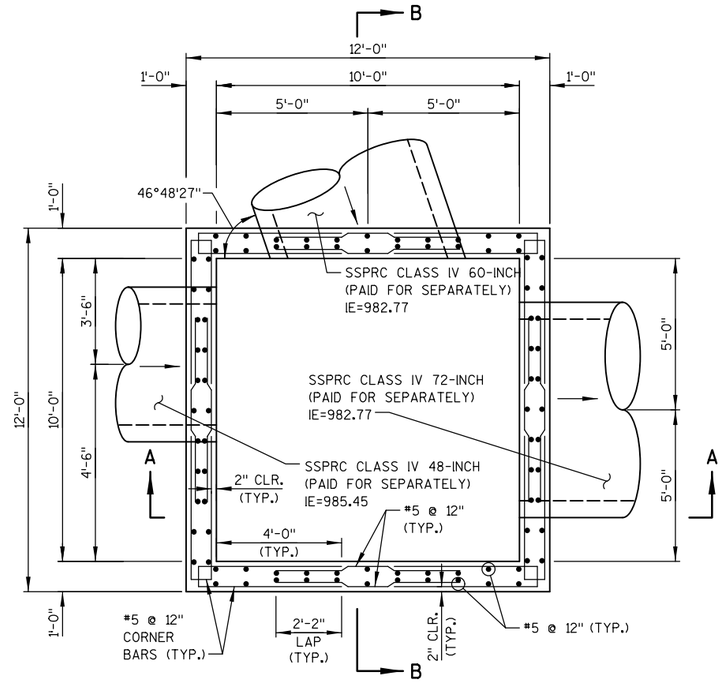
MANHOLE ML205

STA. 1126+31.70, 81.4' LT

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAIL - MANHOLE ML205	SHEET 66	E



TOP PLAN



LOWER PLAN

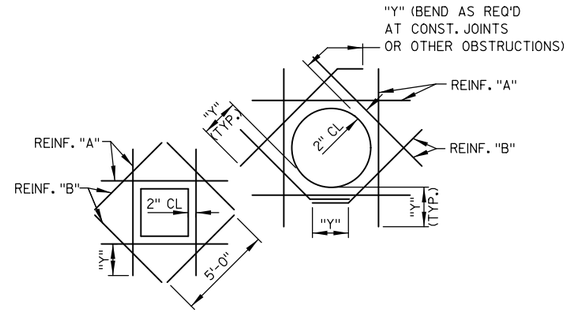
GENERAL NOTES:

1. ALL ITEMS SHOWN IN THIS DETAIL ARE INCLUDED UNDER THE PAY ITEM MANHOLE VR346.1 UNLESS STATED OTHERWISE.

2. IF CONTRACTOR WISHES TO CAST TOP SLAB OR GROUND AND LIFT ONTO TOP OF WALLS, USE ONE OF THE ALTERNATE ROOF AND WALL JOINT DETAILS.

DESIGN DATA:

CONCRETE MASONRY: f'c = 4000 psi
STEEL REINFORCING: Fy = 60 ksi



NOTES:

1. MOVE REINF. MAX. OF 2" TO CLEAR OPENING, CUT REMAINING BAR THROUGH OPENING. WHERE REINF. MUST BE CUT, ADD REINF. "A" AT LEAST EQUAL IN AREA TO THAT WHICH WAS CUT AND EXTEND BEYOND OPENING DISTANCE "Y".

2. DIAGONAL BARS "B" TO BE PLACED:
   A. AT ℄ OF WALL WHERE ONE LAYER OF REINF. IS PROVIDED.
   B. AT EACH FACE OF WALL WHERE TWO LAYERS OF REINF. ARE PROVIDED.
   C. AT TOP & BOTTOM OF ALL SLABS.

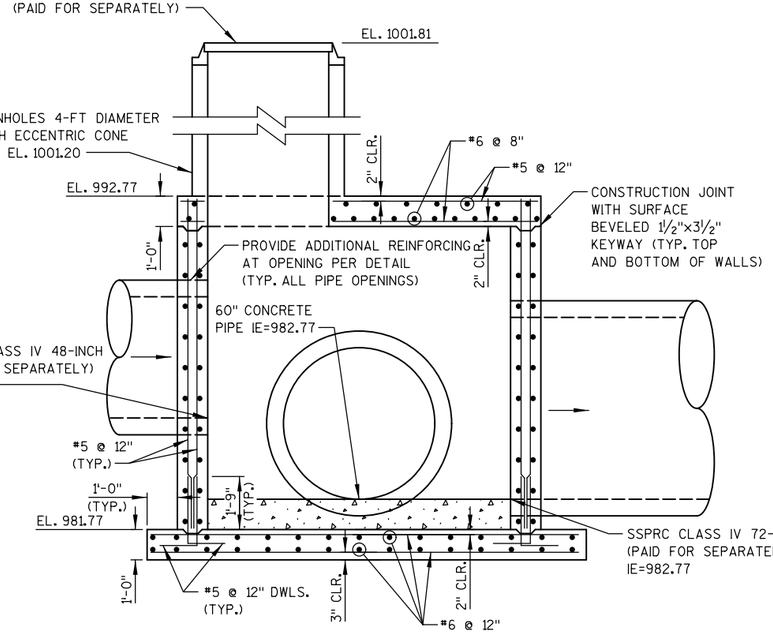
3. UNLESS OTHERWISE NOTED, SIZE OF REINF. "B" SHALL BE THE SIZE OF THE LARGEST REINF. BAR CUT.

4. Y = CLASS B LAP

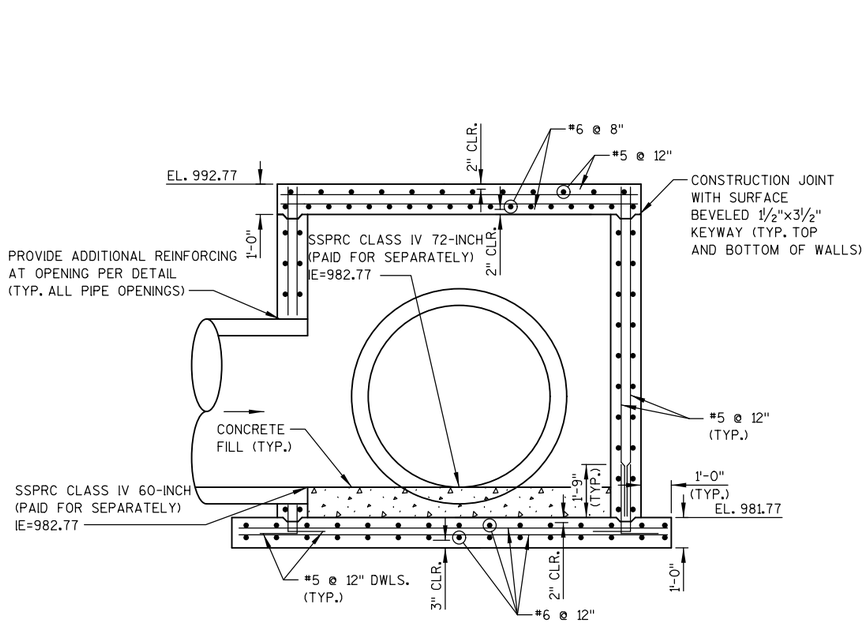
5. THIS DETAIL IS TO BE USED WHEN NO OTHER DETAIL IS SPECIFIED.

6. MINIMUM REINF. "A" & "B" AROUND ANY AND ALL OPENINGS SHALL BE #4.

REINFORCEMENT AT OPENINGS



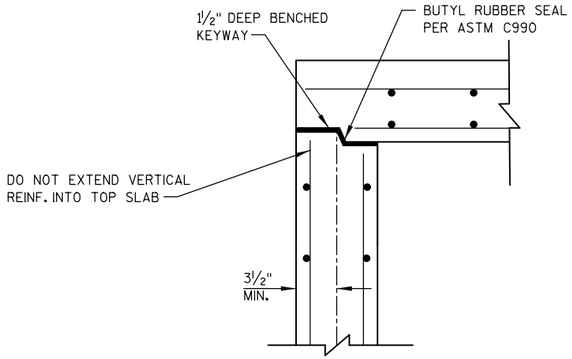
SECTION A-A



SECTION B-B

MANHOLE VR346.1
STA. 977+20.64 VR, 107.7' LT

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - MANHOLE VR346.1	SHEET 67	E



ALTERNATE CONSTRUCTION JOINT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A PRECAST CONCRETE STRUCTURE MAY BE PROVIDED IN LIEU OF CAST-IN-PLACE CONCRETE STRUCTURE. DETAILS OF PRECAST STRUCTURE SHALL COMPLY WITH STANDARD DETAIL DRAWING "MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER" EXCEPT THAT A MINIMUM 4" OVERHANG IS REQUIRED FOR ALL STRUCTURES WITH INTEGRAL OR MONOLITHIC BASES. PRECAST CONCRETE STRUCTURE WALL AND SLAB THICKNESSES AND REINFORCING SHALL MATCH THAT FOR CAST-IN-PLACE STRUCTURE, AS DETAILED ON THIS DRAWING. ALTERNATIVELY, CONTRACTOR MAY PROVIDE AN ALTERNATE DESIGN, COMPLETE WITH DESIGN CALCULATIONS PREPARED BY AND BEARING THE SEAL OF A STATE OF WISCONSIN LICENSED PROFESSIONAL ENGINEER. ALTERNATE DESIGN WILL BE SUBJECT TO APPROVAL BY ENGINEER.

TOP SLAB MAY BE CAST IN ANOTHER LOCATION ON-SITE OR OFF-SITE ON TOP OF A FORMED SURFACE APPROVED BY ENGINEER, AND THEN LIFTED INTO PLACE ON THE STRUCTURE. USE ALTERNATE CONSTRUCTION JOINT DETAIL FOR THIS OPTION.

MANHOLE STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

MANHOLE STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

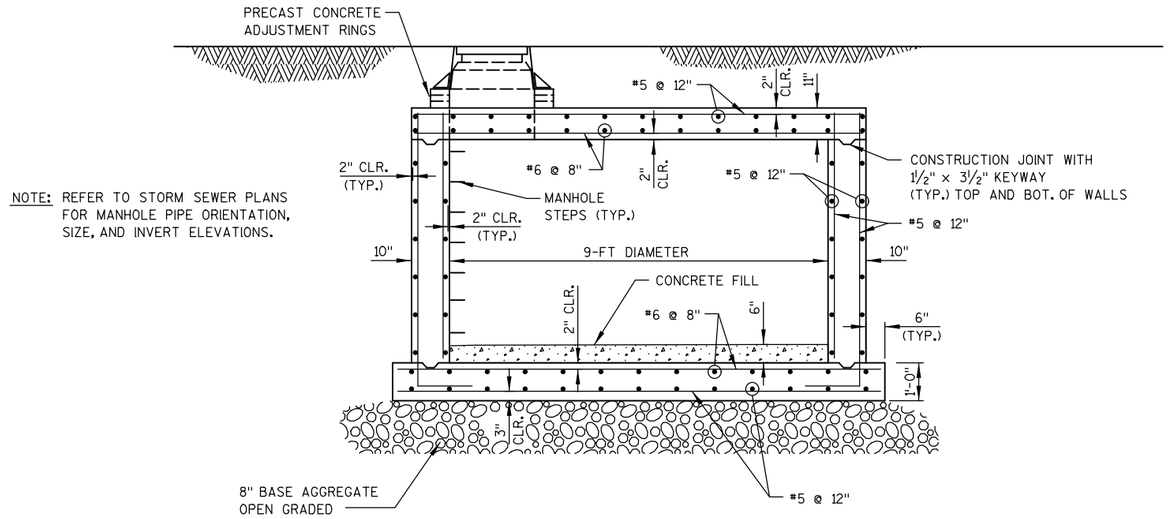
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

REFER TO STORM SEWER PLANS FOR MANHOLE PIPE ORIENTATION, SIZE, AND INVERT ELEVATIONS.

REFER TO STANDARD DETAIL DRAWING "MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER" FOR ADDITIONAL INFORMATION.

DESIGN DATA:

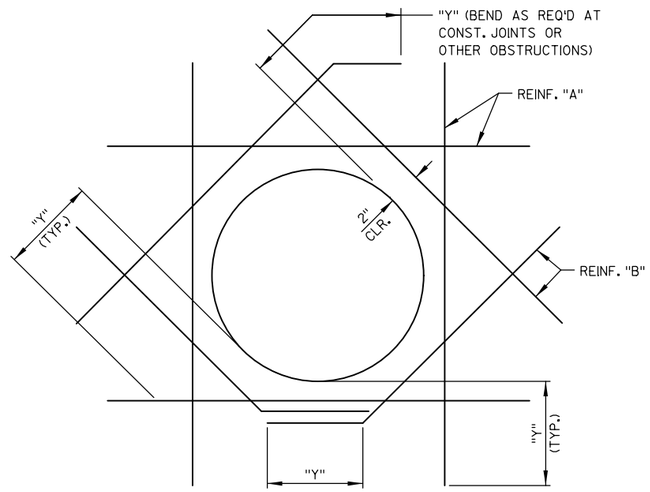
CONCRETE MASONRY: f'c = 4000 psi
STEEL REINFORCING: Fy = 60 ksi



NOTE: REFER TO STORM SEWER PLANS FOR MANHOLE PIPE ORIENTATION, SIZE, AND INVERT ELEVATIONS.

MANHOLES 9-FT DIAMETER - STRUCTURE ML300, VR332, VR332.2, VR334, VR338, VR340, VR353, VR585.5, VR804, VR805, VR808

(NOT TO SCALE)



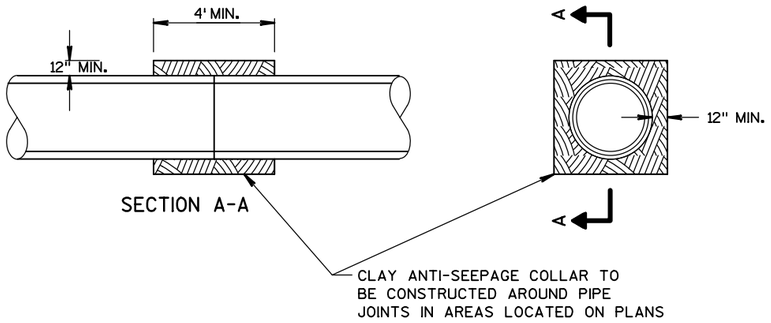
ADDITIONAL REINFORCEMENT AT CONCRETE OPENINGS

NOTES (SLABS):

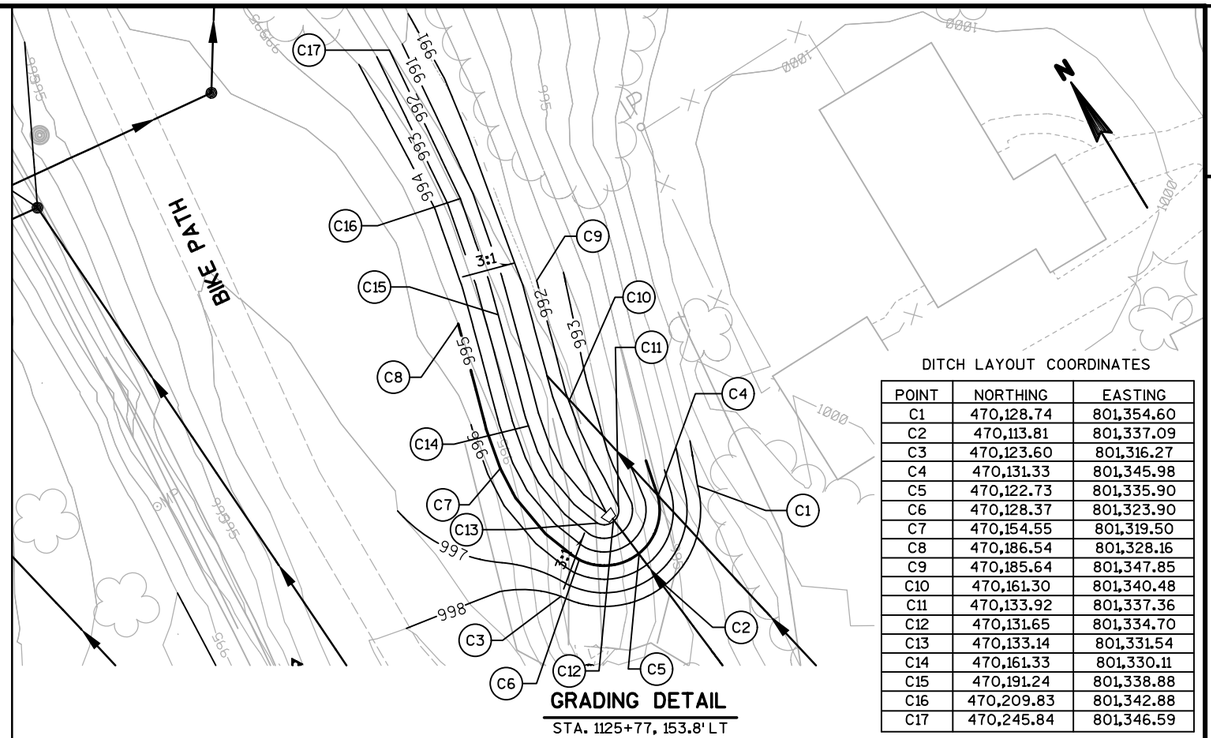
1. MOVE REINF. MAX. OF 2" TO CLEAR OPENING TO AVOID CUTTING REINF. CUT REMAINING BARS THAT PASS THROUGH OPENING.
2. WHERE REINF. MUST BE CUT, ADD REINF. "A" AT LEAST EQUAL IN AREA TO THAT WHICH WAS CUT AND EXTEND BEYOND OPENING DISTANCE "Y".
3. DIAGONAL BARS "B" TO BE PLACED:
   A. AT EACH FACE OF WALL WHERE TWO LAYERS OF REINF. ARE PROVIDED.
   B. AT TOP & BOTTOM OF ALL SLABS.
4. UNLESS OTHERWISE NOTED, SIZE OF REINF. "B" SHALL BE THE SIZE OF THE LARGEST REINF. BAR CUT.
5. Y = CLASS B LAP { #5 BAR = 1'-10" / #6 BAR = 2'-3" }

NOTES (WALLS):

1. MOVE REINF. MAX. OF 2" TO CLEAR OPENING TO AVOID CUTTING REINF. CUT REMAINING BARS THAT PASS THROUGH OPENING.
2. REINF. "A" SHALL BE ONE BAR OF SAME SIZE AS CUT BARS. EXTEND REINF. "A" BEYOND OPENING DISTANCE "Y".
3. ADDITIONAL DIAGONAL REINF. BARS "B" ARE NOT REQUIRED.



CLAY ANTI-SEEPAGE COLLAR DETAIL

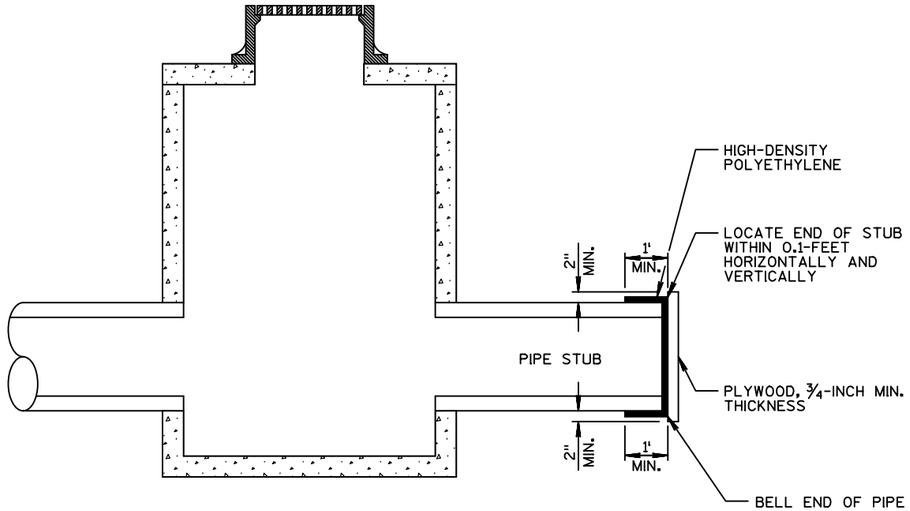


GRADING DETAIL

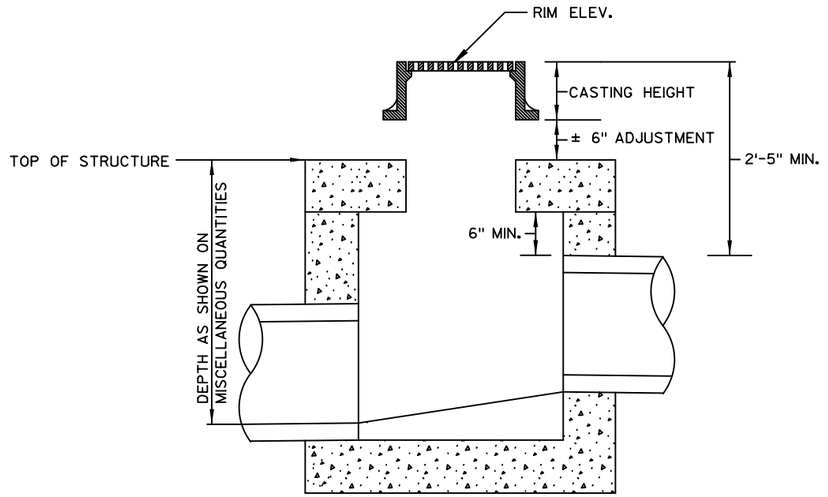
STA. 1125+77, 153.8' LT

DITCH LAYOUT COORDINATES

POINT	NORTHING	EASTING
C1	470,128.74	801,354.60
C2	470,113.81	801,337.09
C3	470,123.60	801,316.27
C4	470,131.33	801,345.98
C5	470,122.73	801,335.90
C6	470,128.37	801,323.90
C7	470,154.55	801,319.50
C8	470,186.54	801,328.16
C9	470,185.64	801,347.85
C10	470,161.30	801,340.48
C11	470,133.92	801,337.36
C12	470,131.65	801,334.70
C13	470,133.14	801,331.54
C14	470,161.33	801,330.11
C15	470,191.24	801,338.88
C16	470,209.83	801,342.88
C17	470,245.84	801,346.59



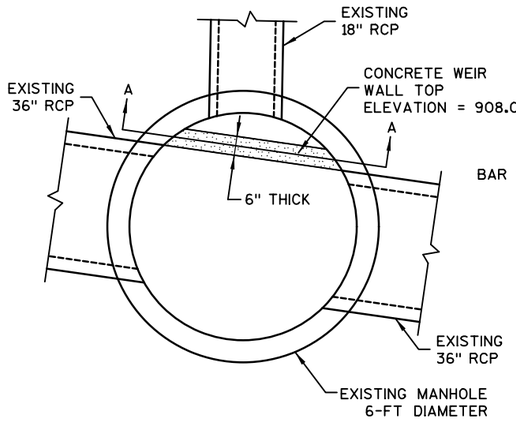
COVERING STORM SEWER AND LOCATING STORM SEWER



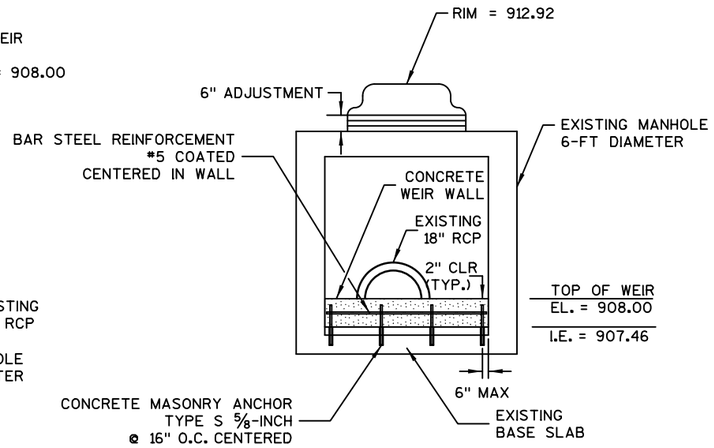
NOTE:
RIM ELEVATION IS AT
FLOW LINE

DETAIL FOR COMPUTING STRUCTURE ELEVATIONS

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 69	E



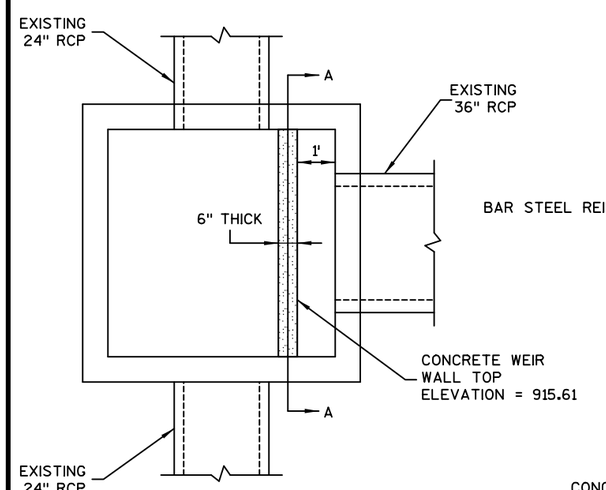
PLAN



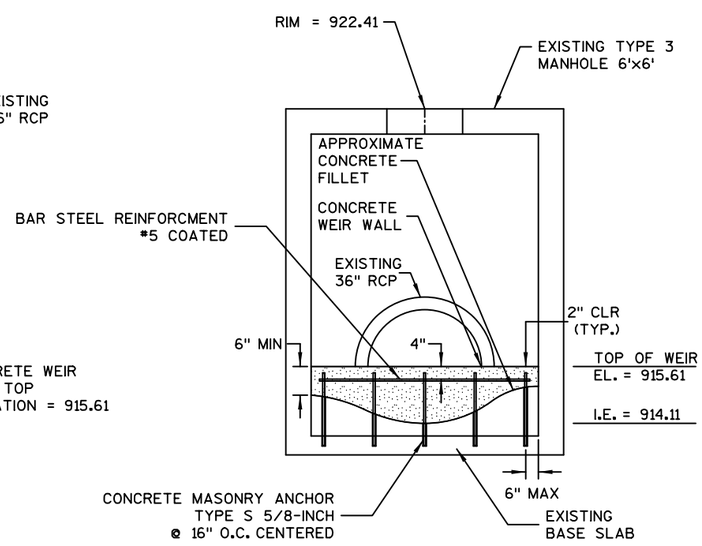
SECTION A-A

CONCRETE WEIR WALL 6 ½-INCH DETAIL

STA. 10+63 TD, RT



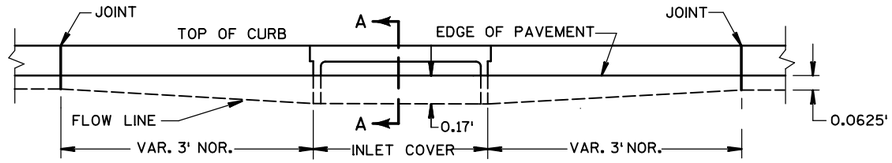
PLAN



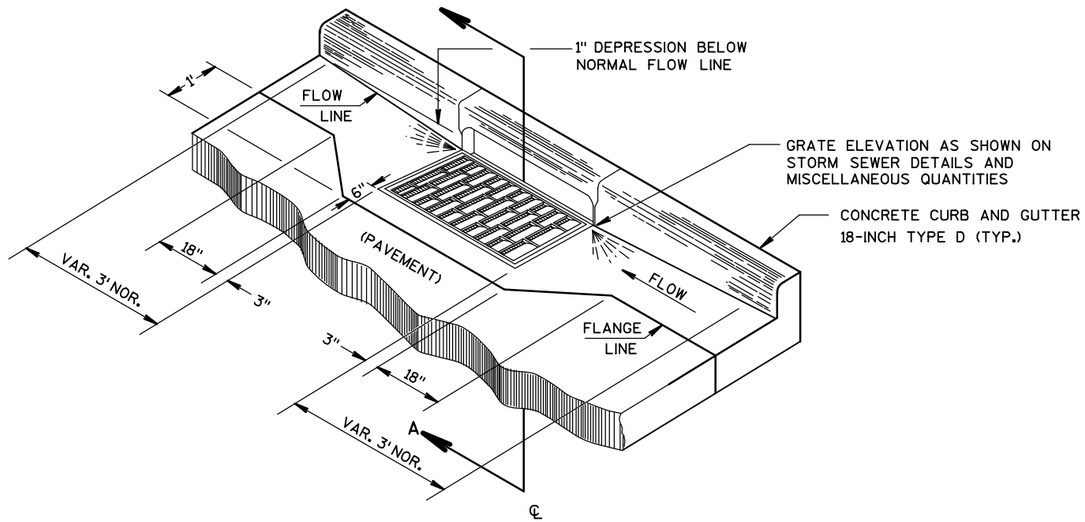
SECTION A-A

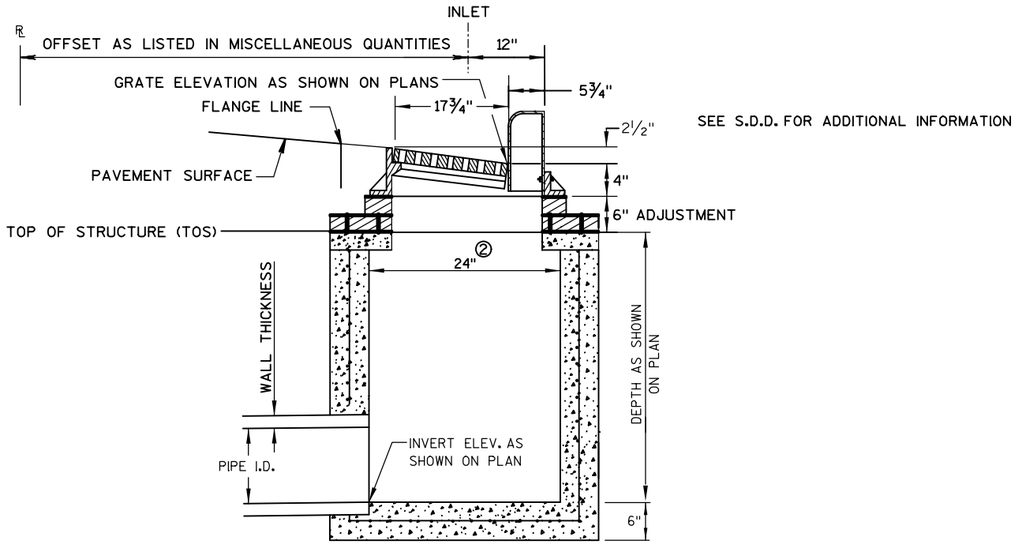
CONCRETE WEIR WALL 18-INCH DETAIL

STA. 1196+22 RT



ELEVATION

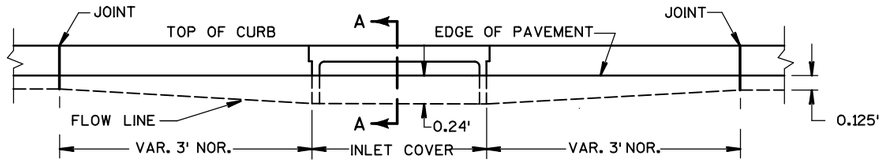




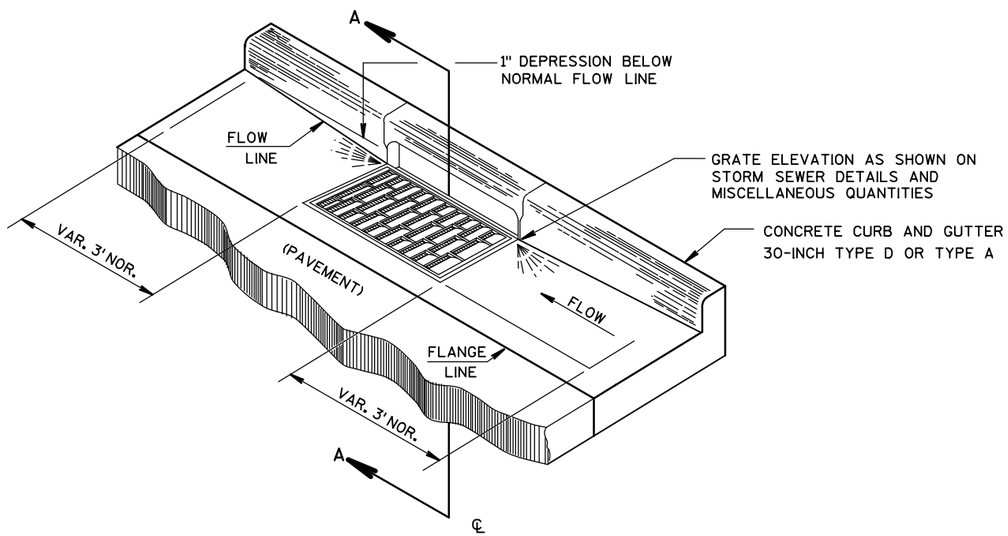
SECTION A-A

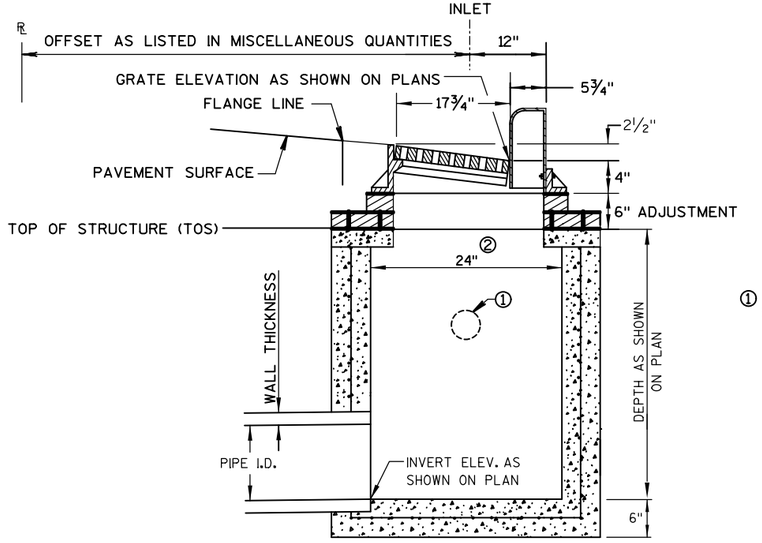
(INLETS 2X3-FT DIAMETER WITH INLET COVERS TYPE H SHOWN)

DETAIL OF CONCRETE CURB AND GUTTER 18-INCH TYPE D AT INLETS - U-HAUL PARKING LOT



ELEVATION



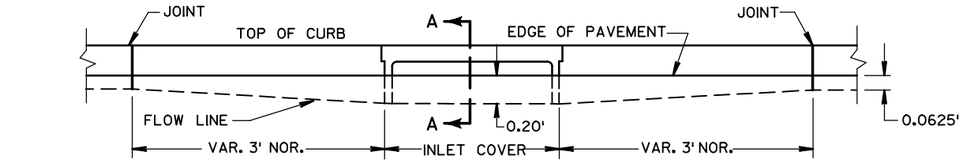


SEE S.D.D. INLETS 3-FT DIA. AND INLETS 2x3-FT FOR ADDITIONAL INFORMATION.

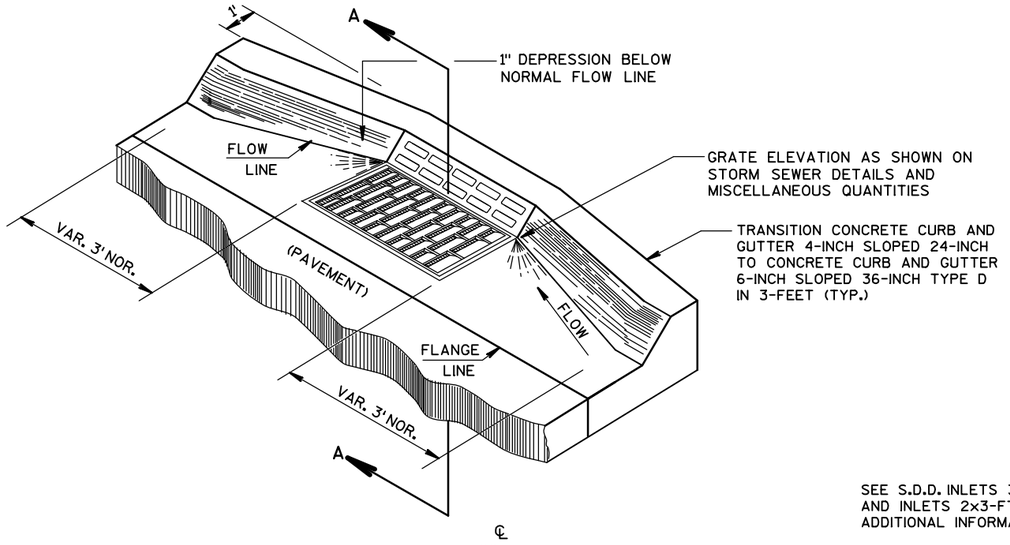
① PIPE UNDERDRAIN WRAPPED 6-INCH SEE MISCELLANEOUS QUANTITIES FOR EXACT LOCATIONS.

SECTION A-A
NOT A BID ITEM
(INLETS 2x3-FT DIAMETER WITH COVERS TYPE H SHOWN)

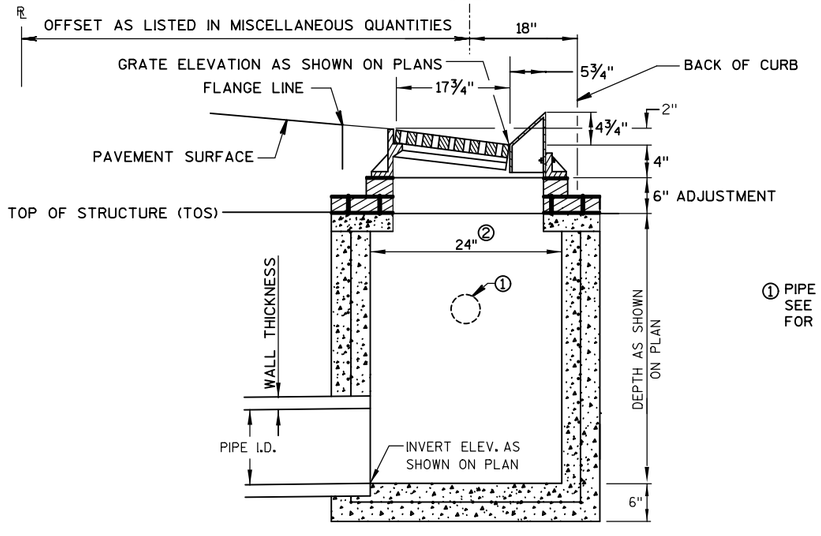
CONCRETE CURB AND GUTTER 30-INCH TYPE D OR TYPE A AT INLETS - SIDEROADS



ELEVATION



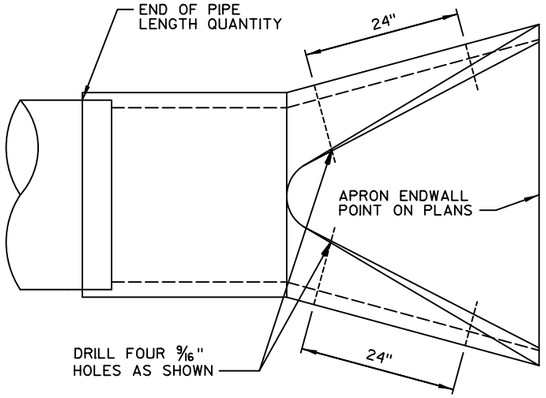
SEE S.D.D. INLETS 3-FT DIA. AND INLETS 2x3-FT FOR ADDITIONAL INFORMATION.

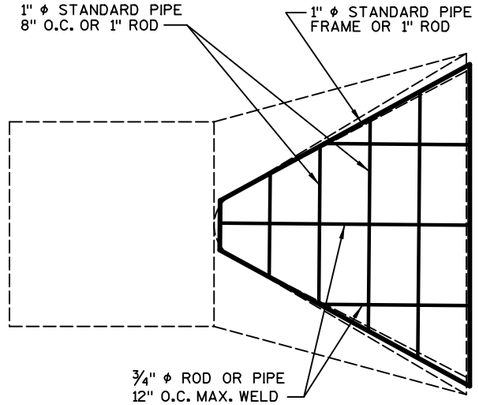


① PIPE UNDERDRAIN WRAPPED 6-INCH SEE MISCELLANEOUS QUANTITIES FOR EXACT LOCATIONS.

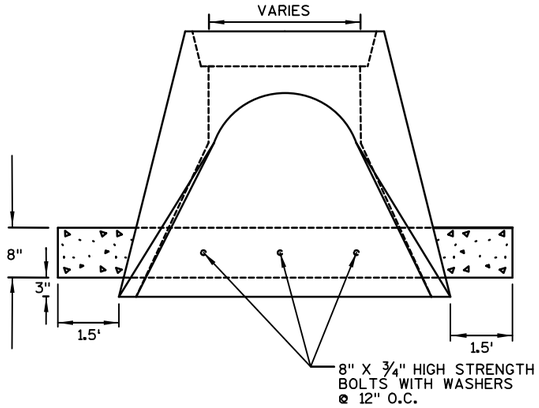
SECTION A-A
(INLETS 2x3-FT DIAMETER WITH INLET COVERS TYPE HM SHOWN)

CONCRETE CURB AND GUTTER 24-INCH SPECIAL AT INLETS - 'SF' LINE

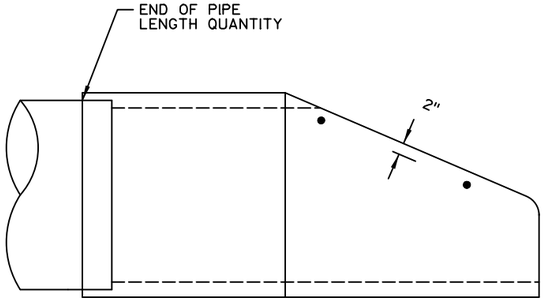


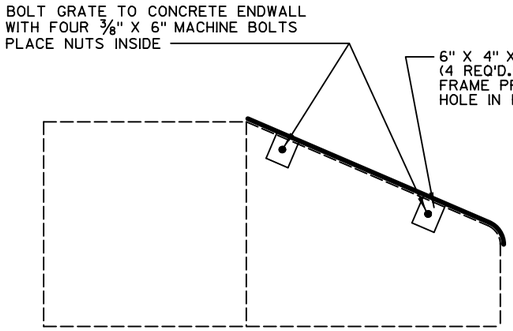


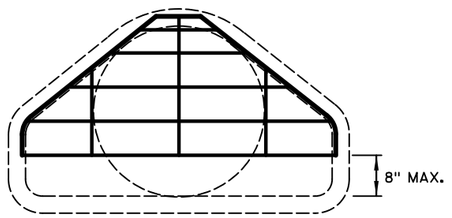
AT EACH PIPE



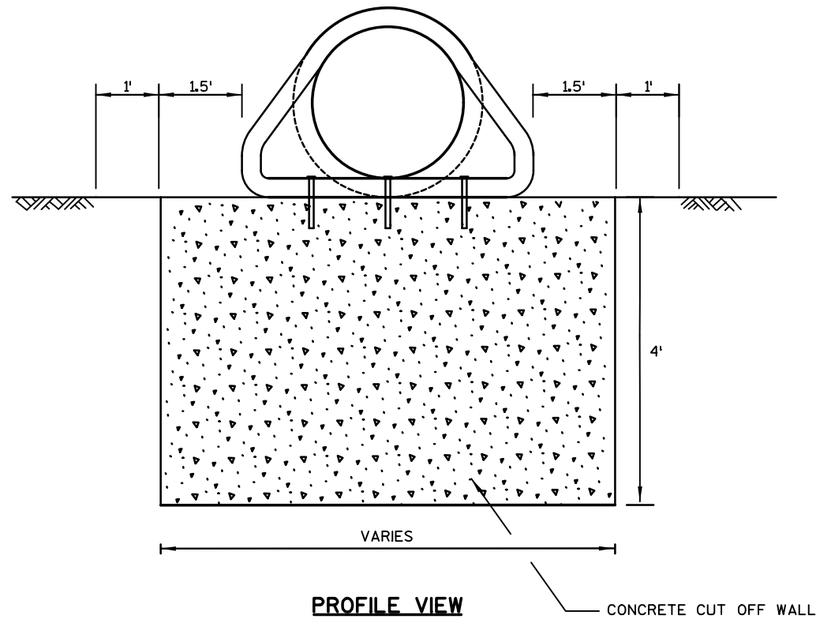
PLAN VIEW







PIPE GRATE DETAIL



CONCRETE CUT OFF WALL

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 72	E

NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ENCASEMENT: THE ENCASING MATERIAL AROUND THE PIPE SHALL BE IN ACCORDANCE WITH SPECIFICATIONS OF 415 FOR CONCRETE PAVEMENT.

THE PIPE USED SHALL BE A 15" DIAMETER SDR-35 POLYVINYL CHLORIDE SEWER PIPE. THE PIPE SHALL CONFORM TO ASTM D-3034.

SURFACE DRAIN: BEFORE PAVING OVER THE DRAIN, COVER THE TOP OF THE DRAIN TO KEEP MATERIAL OUT OF THE PIPE.

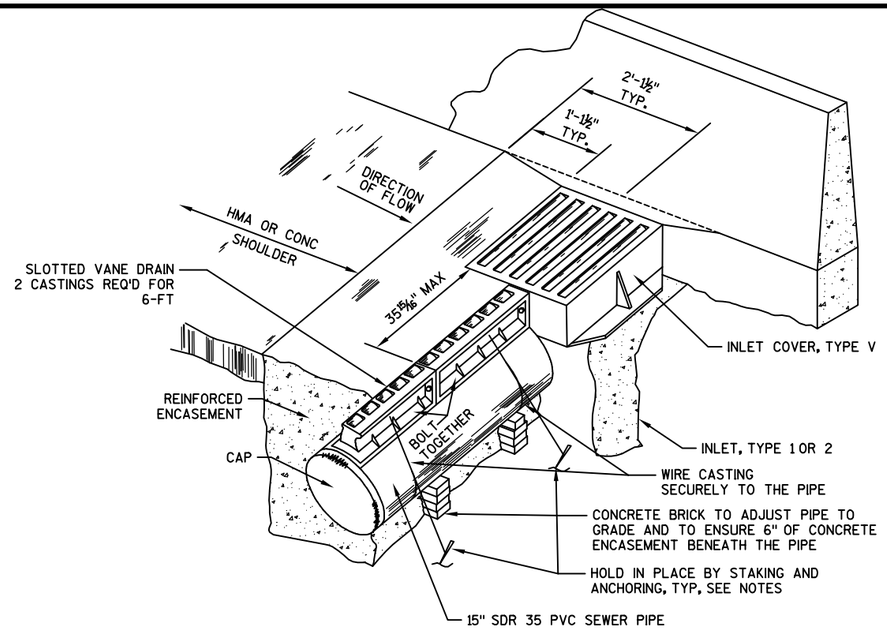
THE ANGLE OF THE DRAIN TO THE FLOW OF WATER SHOULD BE AS CLOSE TO 90° AS POSSIBLE.

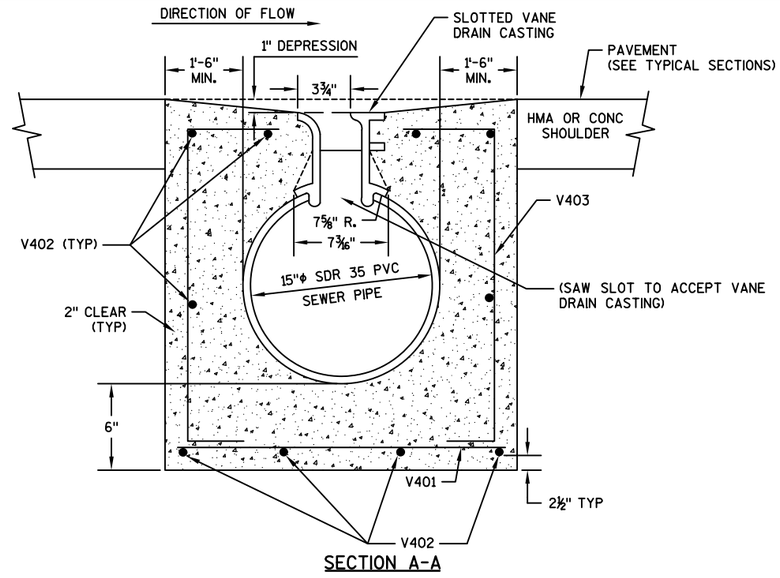
THE FIRST DIGIT OF BAR MARK SIGNIFIES THE BAR SIZE.

ALL DIMENSIONS ARE OUT TO OUT OF BAR.

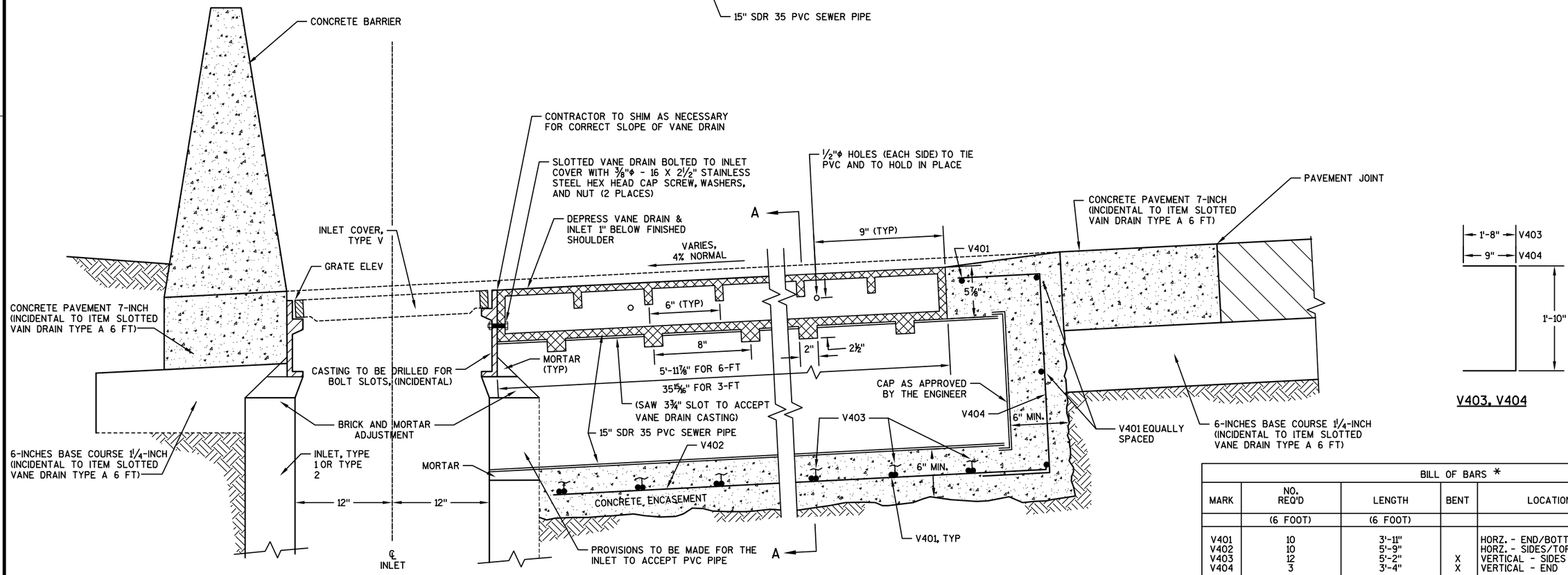
APPROX. WEIGHT OF SLOTTED VANE DRAIN CASTING = 87 POUNDS.

THE CASTING AND PVC PIPE SHALL BE SECURELY STAKED AND ANCHORED INTO PLACE DURING THE PLACEMENT OF THE CONCRETE ENCASEMENT.





SECTION A-A



SLOTTED VANE DRAIN TYPE A 6 FT

SHOULDER INSTALLATION

V403, V404

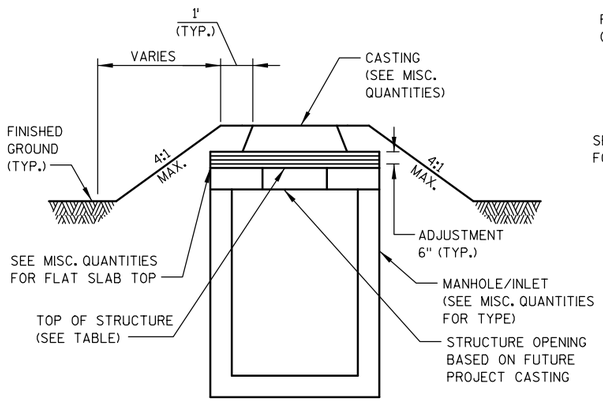
BILL OF BARS *				
MARK	NO. REQ'D	LENGTH	BENT	LOCATION
	(6 FOOT)	(6 FOOT)		
V401	10	3'-11"		HORZ. - END/BOTTOM
V402	10	5'-9"		HORZ. - SIDES/TOP/BOTTOM
V403	12	5'-2"	X	VERTICAL - SIDES
V404	3	3'-4"	X	VERTICAL - END

* INCIDENTAL TO THE ITEM OF SLOTTED DRAIN TYPE A 6-FT OR 3-FT

NOTES:
1. WILL BE IN TABLE

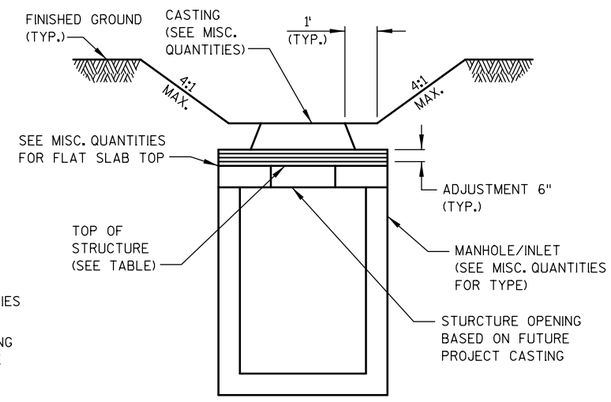
2. RISER IS INCIDENTAL TO ITEM MANHOLE X-FT DIAMETER, INLETS 2X3-FT, AND INLETS 3-FT DIAMETER.

3. CONSTRUCT RISER IN ACCORDANCE WITH STANDARD SPECIFICATIONS.



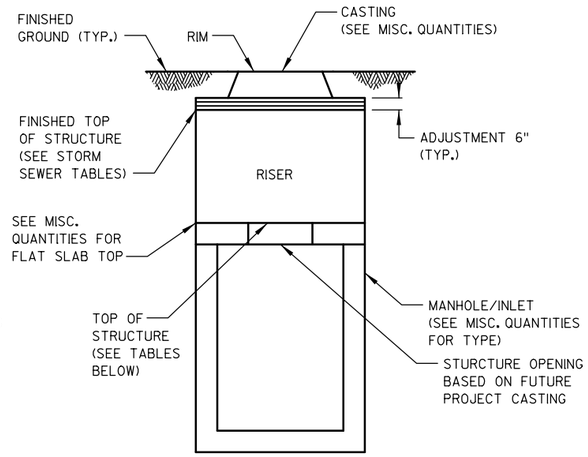
MOUND

FUTURE PROJECT RIM EL.
HIGHER THAN FINISHED GROUND



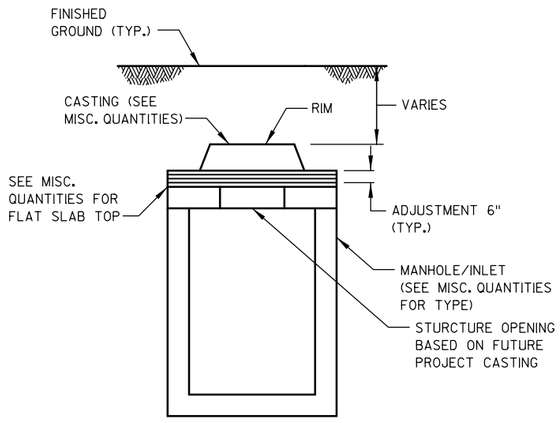
VALLEY

FUTURE PROJECT RIM EL.
LOWER THAN FINISHED GROUND



FLUSH

FUTURE PROJECT RIM EL.
LOWER THAN FINISHED GROUND



BURIED

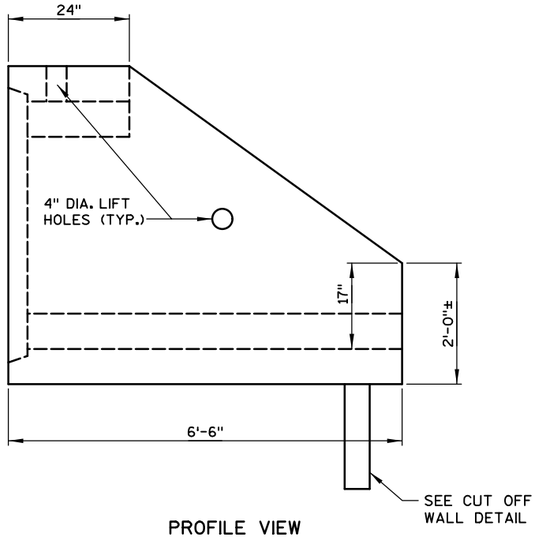
FUTURE PORJECT RIM EL.
LOWER THAN FINISHED GROUND AND BURIED

STORM SEWER STRUCTURE ADJUSTMENT DETAIL

STRUCTURE	FINISHED RIM	FINISHED CASTING	TYPE	TOS	RISER HEIGHT
EE366	999.23	C	VALLEY	997.98	-
EE368	1000.76	C	VALLEY	999.51	-
EE370	1001.50	C	VALLEY	1000.25	-
ML200	997.46	J	MOUND	996.21	-
ML205	998.64	J	FLUSH	996.78	0.61
ML205.6	998.60	J	FLUSH	996.86	0.49
ML205.7	998.71	J	FLUSH	996.62	0.84
ML214	998.23	J	FLUSH	996.11	0.87
ML214.1	996.79	C	FLUSH	996.34	RISER ADDED IN FUTURE
ML214.2	997.71	J	FLUSH	996.15	0.31
ML600.2	987.98	J	MOUND	986.73	-
ML605	989.54	J	FLUSH	988.00	0.29
ML610	992.35	C	FLUSH	990.11	0.99
ML615	994.86	C	VALLEY	993.61	-
ML620	1000.75	B	FLUSH	995.64	3.95
ML625	1001.19	MS	FLUSH	999.00	2.19
ML675	990.02	J	FLUSH	988.97	RISER ADDED IN FUTURE
ML680	992.76	C	FLUSH	991.32	0.19
ML680.4	992.85	C	FLUSH	991.53	0.07
ML685	998.01	C	FLUSH	995.38	1.38
VR332	998.00	C	FLUSH	994.84	1.91
VR332.2	998.22	J	BURIED	996.97	-
VR332.5	996.77	J	BURIED	995.52	-

STRUCTURE	FINISHED RIM	FINISHED CASTING	TYPE	TOS	RISER HEIGHT
VR334	999.03	J	FLUSH	995.77	2.01
VR338	999.54	J	FLUSH	995.98	2.31
VR340	1000.18	J	FLUSH	997.22	1.71
VR346	1001.60	J	FLUSH	1010.25	RISER ADDED IN FUTURE
VR346.1	1001.81	J	FLUSH	1012.81	RISER ADDED IN FUTURE
VR350.2	998.50	C	FLUSH	996.59	0.66
VR353	1001.76	J	BURIED	1000.51	-
VR354	997.50	C	FLUSH	1001.90	RISER ADDED IN FUTURE
VR356.9	999.11	J	BURIED	997.86	-
VR358	998.50	C	VALLEY	997.25	-
VR358.1	997.71	C	VALLEY	996.46	-
VR358.2	997.70	C	VALLEY	996.45	-
VR358.9	997.57	C	VALLEY	996.32	-
VR398	1012.74	J	MOUND	1011.49	-
VR398.2	1008.48	J	FLUSH	1006.88	0.35
VR398.3	1009.09	J	FLUSH	1006.42	1.42
VR398.4	1008.91	J	FLUSH	1006.21	1.45
VR408.9	991.31	J	BURIED	998.06	-
VR580	998.29	C	VALLEY	997.04	-
VR580.1	997.85	J	FLUSH	996.30	0.30
VR580.3	997.13	H-S	FLUSH	996.21	RISER ADDED IN FUTURE
VR580.4	1000.13	C	VALLEY	998.88	-
VR580.5	998.29	C	VALLEY	997.04	-

STRUCTURE	FINISHED RIM	FINISHED CASTING	TYPE	TOS	RISER HEIGHT
VR585.4	1000.32	J	FLUSH	998.92	0.15
VR585.5	1000.86	C	VALLEY	999.61	-
VR802	997.92	C	VALLEY	996.67	-
VR803	998.62	J	FLUSH	996.93	0.44
VR804	998.57	C	VALLEY	997.32	-
VR804.2	998.37	J	MOUND	997.12	-
VR805	999.31	C	VALLEY	998.06	-
VR806	997.68	C	VALLEY	996.43	-
VR808	997.57	C	VALLEY	996.32	-
VR809	998.70	J	BURIED	997.45	-
VR814	999.70	J	MOUND	998.45	-



PROFILE VIEW

END VIEW

NOTES:

1. PRECAST REINFORCED CONCRETE BOX SECTIONS SHALL CONFORM TO REQUIREMENTS IN SECTION 522 OF SPECIFICATIONS.

2. CUT-OFF WALL REQ'D. SEE DETAIL.

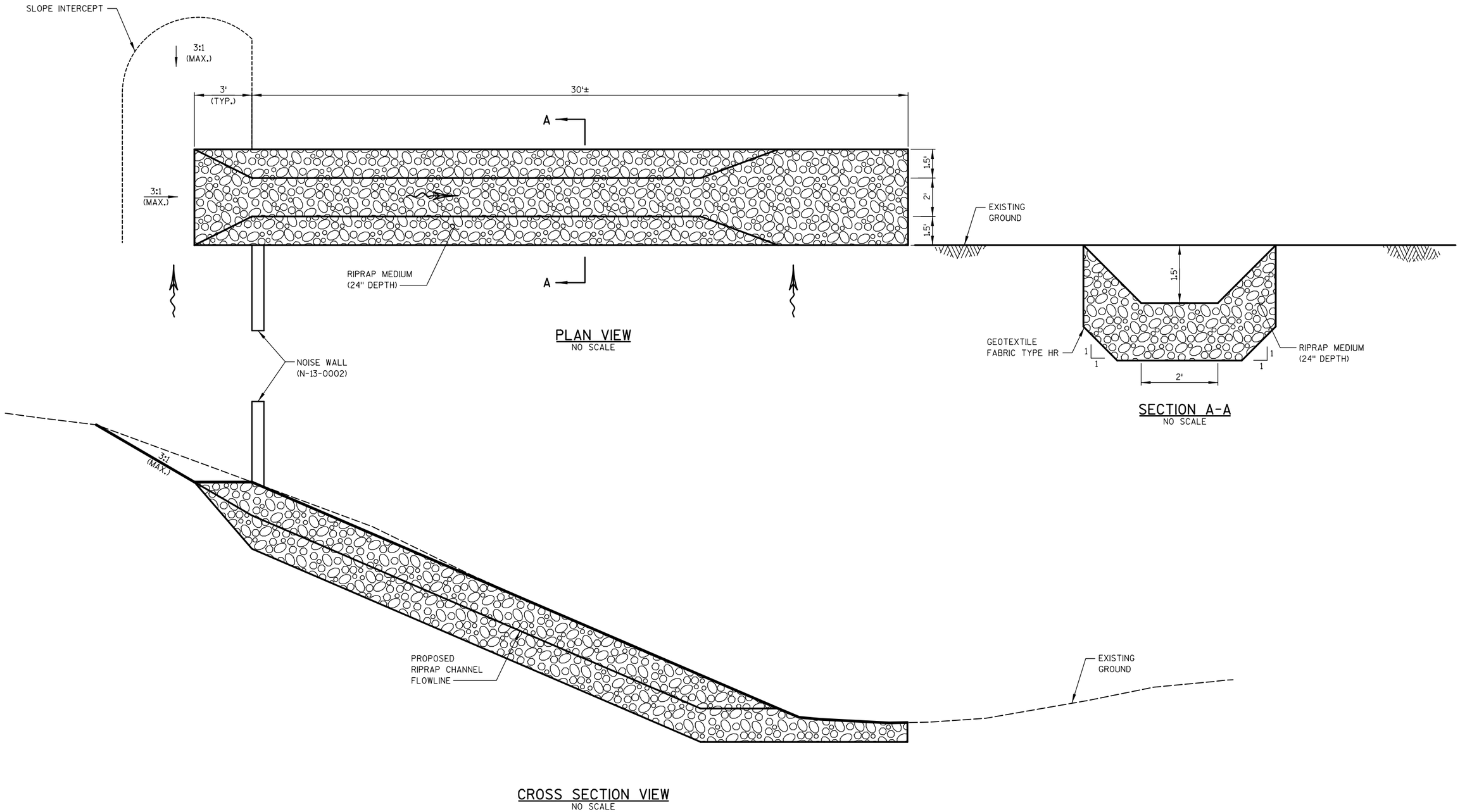
APRON ENDWALL FOR STORM SEWER PIPE REINFORCED CONCRETE BOX 3X6-FT

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 158.1 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 128.6 ACRES

2



PLAN VIEW
NO SCALE

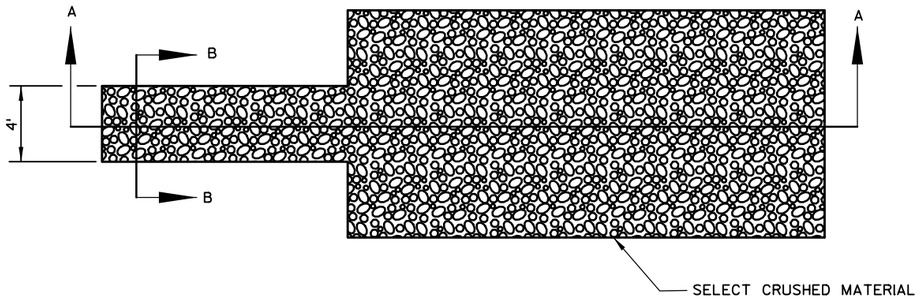
SECTION A-A
NO SCALE

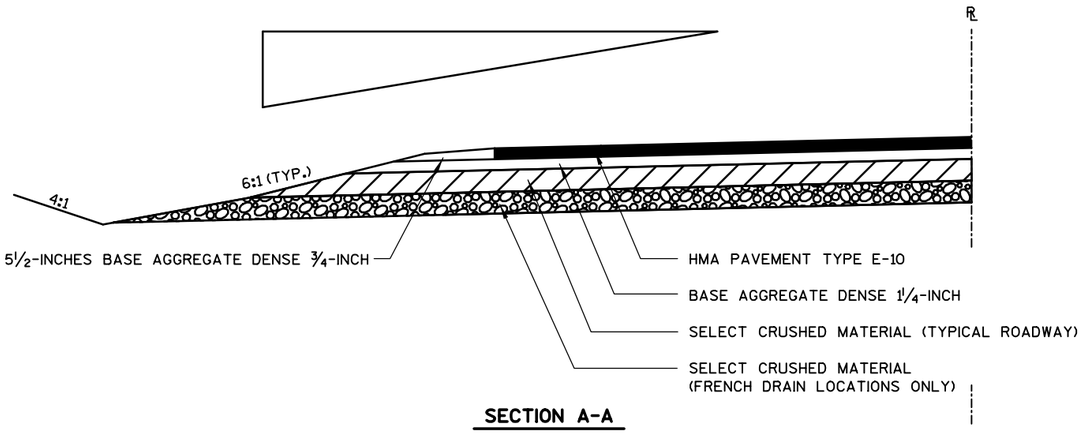
CROSS SECTION VIEW
NO SCALE

RIPRAP CHANNEL
STA. 1169+27, 112.8' LT

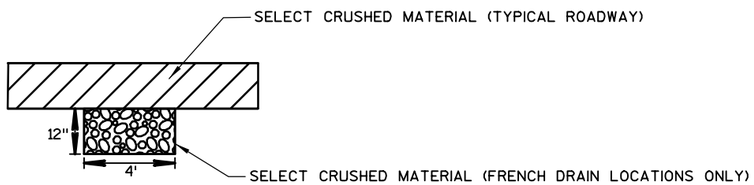
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS - RIPRAP CHANNEL	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021044_cd_Riprap_Ditch.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 42





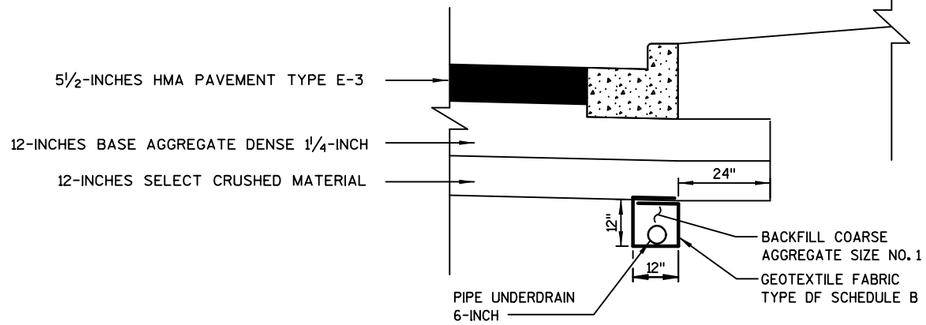
SECTION A-A



SECTION B-B

FRENCH DRAIN DETAIL

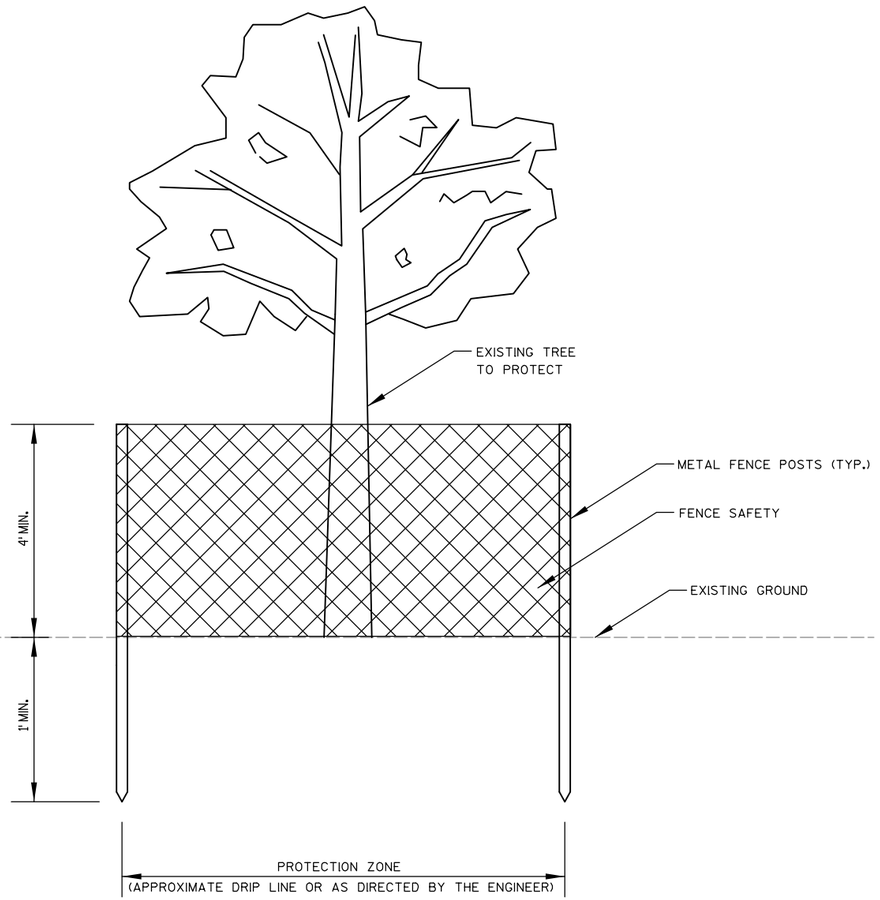
LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER (250' NORMAL)



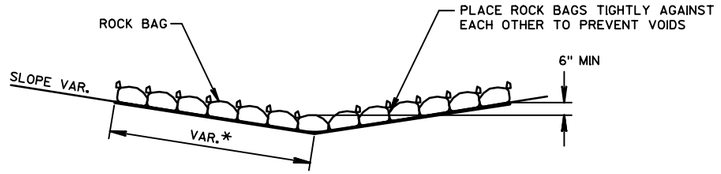
PIPE UNDERDRAIN 6-INCH - ASPHALT PAVEMENT STRUCTURE (TYP.)

DETAIL FOR PIPE UNDERDRAIN 6-INCH

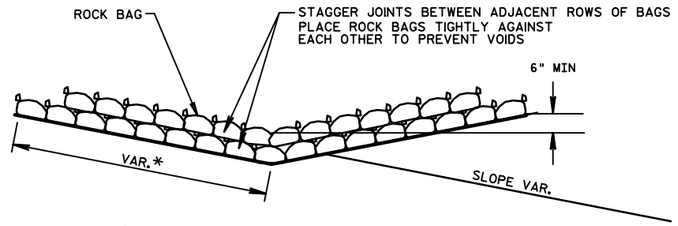
NOTE: PIPE UNDERDRAIN IS TO BE DISCHARGED INTO A STORM SEWER STRUCTURE.



TREE PROTECTION DETAIL



SIDE VIEW (SINGLE LAYER)

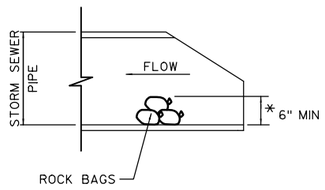


* LENGTH AND NUMBER OF BAGS MAY VARY
DEPENDING ON DESIRED DEPTH OF WATER POOL

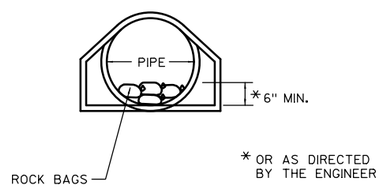
SIDE VIEW (MULTIPLE LAYER)

TEMPORARY DITCH CHECKS

ESTIMATED BAG SIZE = 18" X 12" X 6"	
PIPE SIZE	ESTIMATED NO. OF BAGS
18"	2
24"	3
30"	5
48"	10
54"	10
60"	13
72"	16

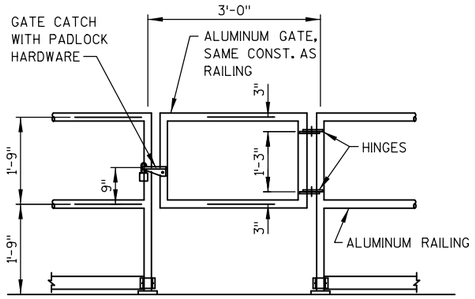


SIDE VIEW
INSTALL ON INLET END

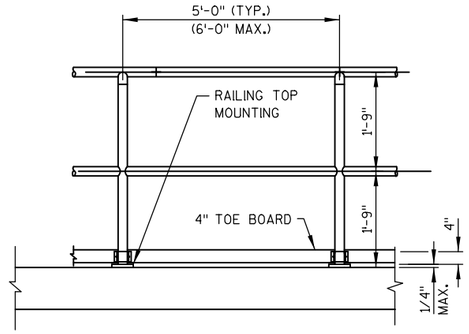


END VIEW

CULVERT PIPE CHECKS DETAIL
AT APRON ENDWALL LOCATIONS



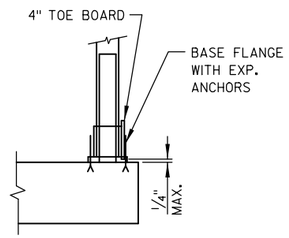
NOT TO SCALE



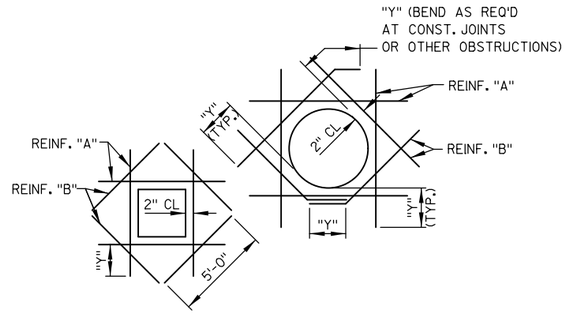
NOT TO SCALE

NOTES:

1. ALL RAILS & POSTS SHALL BE 1 1/2" SCH 40 DIAMETER ALUMINUM PIPE. ALL ACCESSORIES SHALL BE STAINLESS STEEL.
2. ALL RAIL SYSTEMS SHALL MEET OSHA PERFORMANCE STANDARDS FOR PUBLIC AND INDUSTRIAL APPLICATIONS.

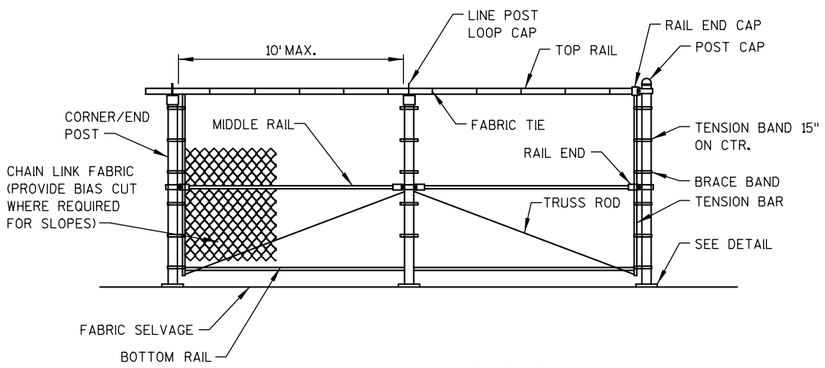


NOT TO SCALE



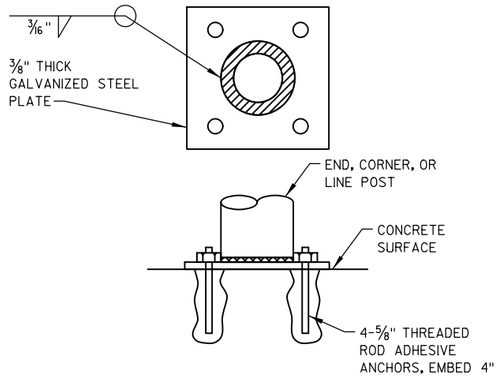
NOTES:

1. MOVE REINF. MAX. OF 2" TO CLEAR OPENING, CUT REMAINING BAR THROUGH OPENING. WHERE REINF. MUST BE CUT, ADD REINF. "A" AT LEAST EQUAL IN AREA TO THAT WHICH WAS CUT AND EXTEND BEYOND OPENING DISTANCE "Y".
2. DIAGONAL BARS "B" TO BE PLACED:
   A. AT ℄ OF WALL WHERE ONE LAYER OF REINF. IS PROVIDED.
   B. AT EACH FACE OF WALL WHERE TWO LAYERS OF REINF. ARE PROVIDED.
   C. AT TOP & BOTTOM OF ALL SLABS.
3. UNLESS OTHERWISE NOTED, SIZE OF REINF. "B" SHALL BE THE SIZE OF THE LARGEST REINF. BAR CUT.
4. Y = CLASS B LAP
5. THIS DETAIL IS TO BE USED WHEN NO OTHER DETAIL IS SPECIFIED.
6. MINIMUM REINF. "A" & "B" AROUND ANY AND ALL OPENINGS SHALL BE #4.



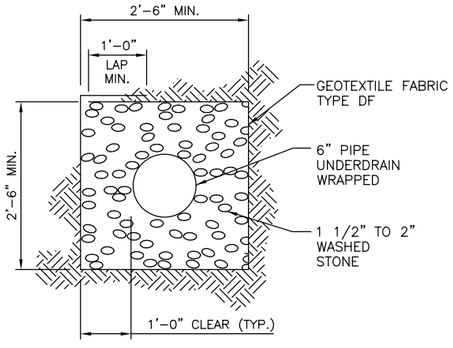
CHAIN LINK FENCING

NOT TO SCALE



FENCE POST MOUNTING PLATE

NOT TO SCALE

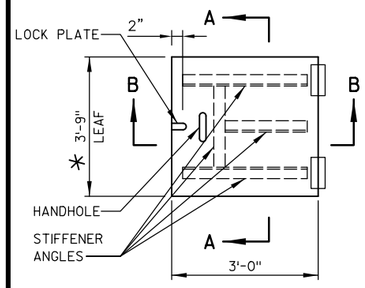


TYPICAL PIPE UNDERDRAIN TRENCH

NOT TO SCALE

REINFORCEMENT AT OPENINGS

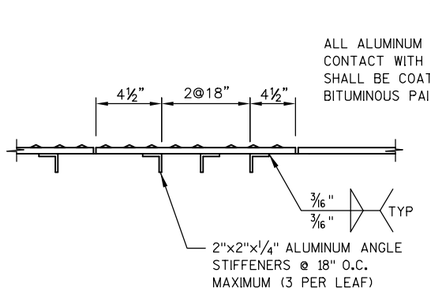
NOT TO SCALE



TREAD PLATE TYPICAL LEAF

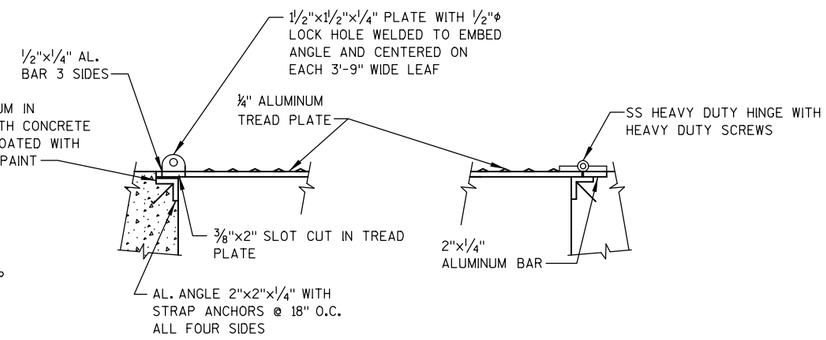
NOT TO SCALE

✳ 3'-0" AT WEST HATCH



SECTION A–A

NOT TO SCALE



SECTION B–B

NOT TO SCALE

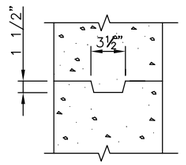
NOT TO SCALE

GENERAL NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION FOR SAND AND TRASH COLLECTOR AND WISDOT STANDARD SPECIFICATIONS.
2. ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH BITUMINOUS PAINT.
3. TEMPORARY SHORING WILL BE REQUIRED TO CONSTRUCT THIS STRUCTURE. SHORING IS INCLUDED WITH BIT ITEM "SHORING LEFT IN PLACE". SOIL BORINGS OBTAINED FOR THIS STRUCTURE ARE PROVIDED WITH THE STRUCTURE PLANS FOR RETAINING WALLS R-13-244 AND R-13-245.

DESIGN DATA:

CONCRETE MASONRY ---------- F'c = 4,000 PSI
HIGH STRENGTH BAR
STEEL REINFORCEMENT ---------- Fy = 60,000 PSI



NOTES:

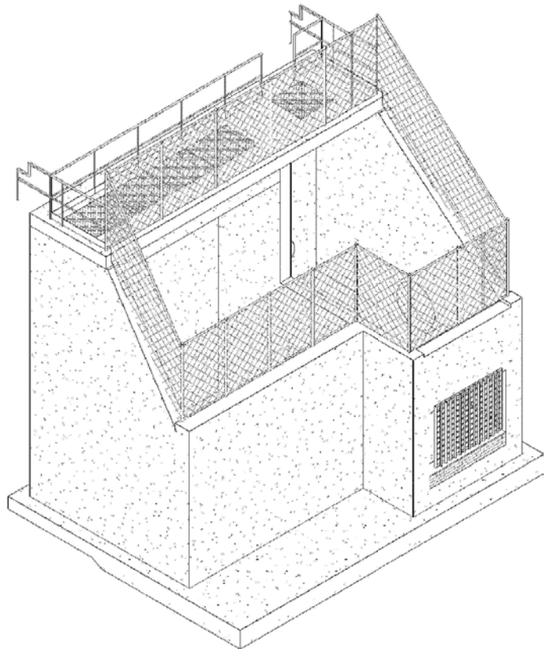
1. RUN REINF. CONTINUOUS THROUGH JOINT.
2. STOP KEYWAYS IN VERTICAL JOINTS 6" BELOW EXPOSED TOP OF WALL.

CONSTRUCTION JOINT WITH KEYWAY

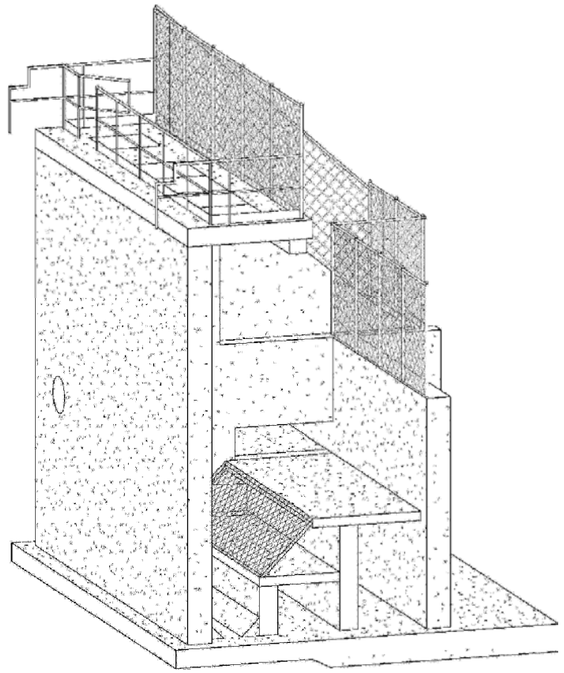
NOT TO SCALE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAIL - SAND AND TRASH COLLECTOR	SHEET 79	E

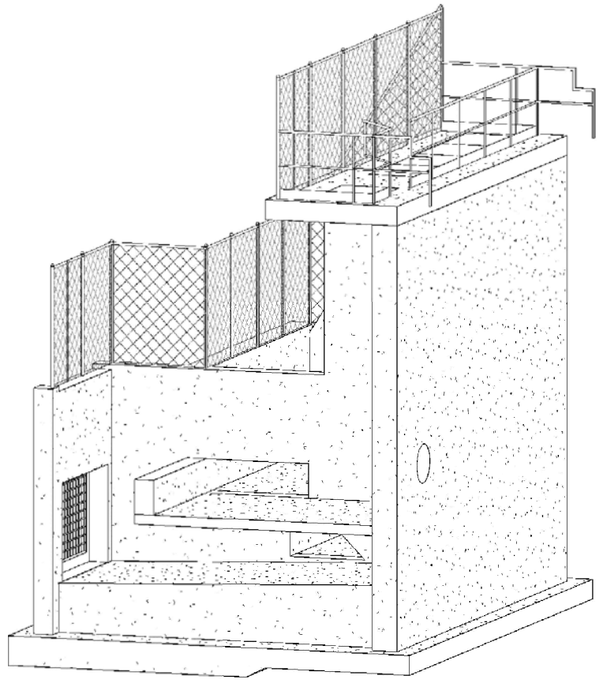
2



3D PERSPECTIVE (LOOKING SOUTHWEST)
NOT TO SCALE



3D PERSPECTIVE (LOOKING NORTHWEST)
NOT TO SCALE

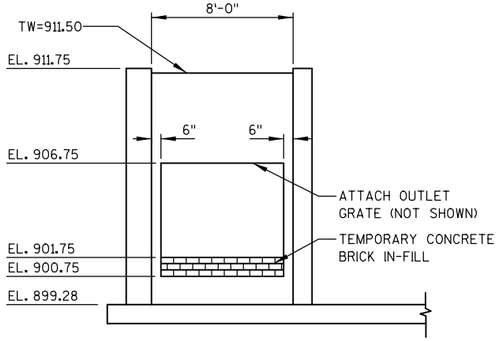


3D PERSPECTIVE (LOOKING NORTHEAST)
NOT TO SCALE

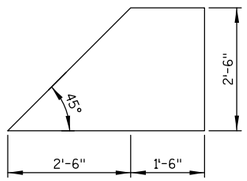
ESTIMATED QUANTITIES

CONCRETE MASONRY	116 CY
BAR STEEL REINFORCEMENT HS	21,925 LBS

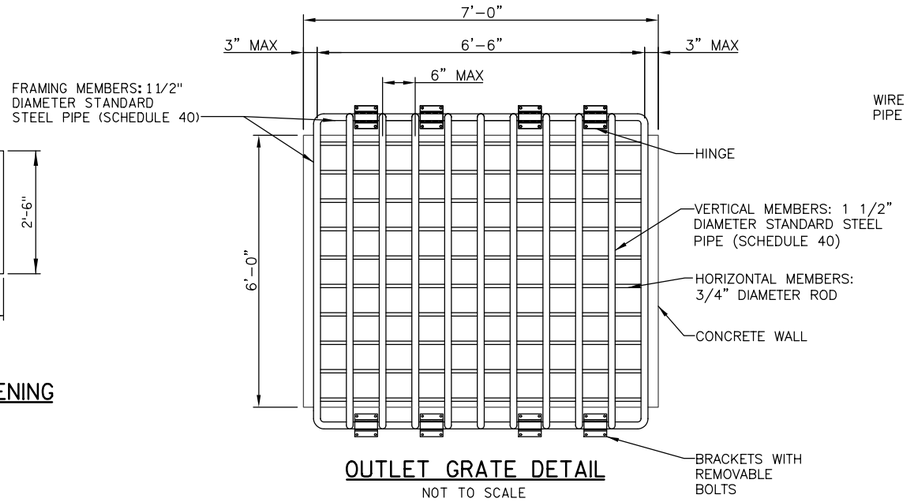
THE QUANTITIY ESTIMATES FOR THESE ITEMS ARE PROVIDED FOR INFORMATION ONLY. ALL WORK ASSOCIATED WITH THIS STRUCTURE IS INCLUDED WITH THE BID ITEM "SAND AND TRASH COLLECTOR" AS DEFINED IN THE SPECIAL PROVISION.



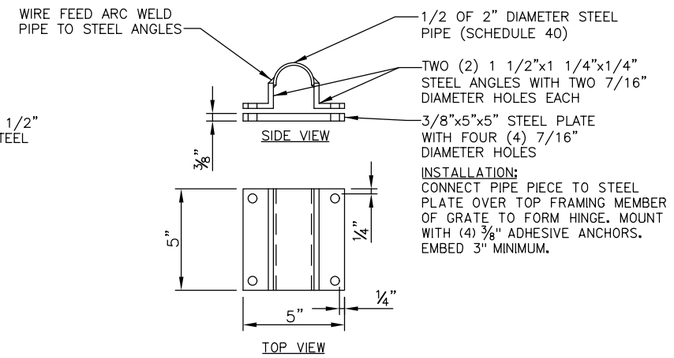
SECTION D-D
SCALE: 1/4"=1'-0"



TRAPEZOIDAL OPENING
NOT TO SCALE

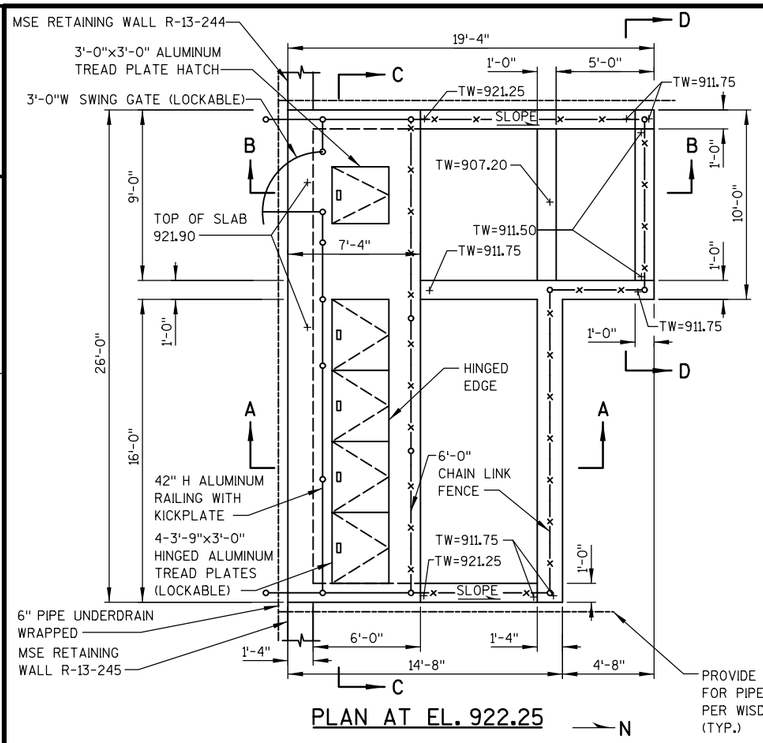


OUTLET GRATE DETAIL
NOT TO SCALE

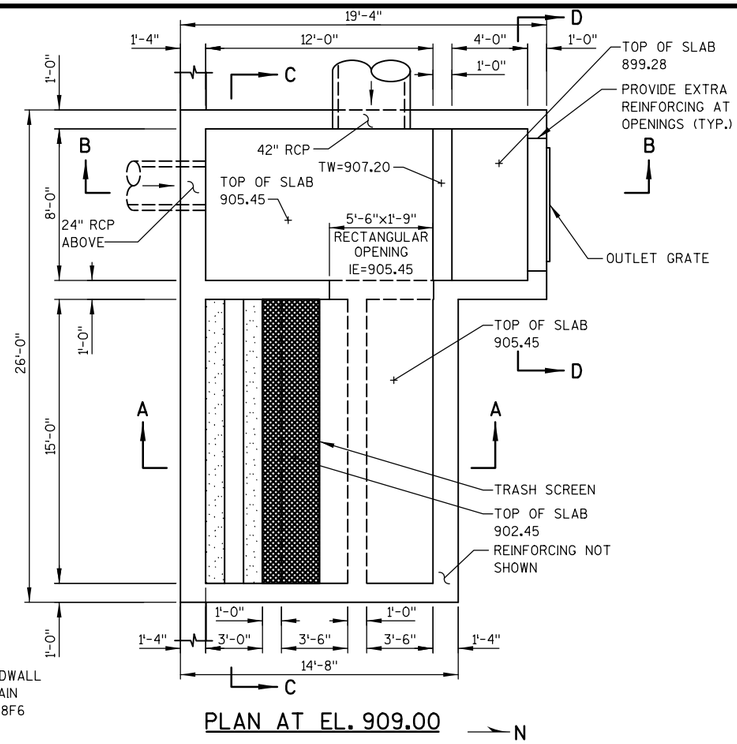


TWO PIECE SPLIT HINGE DETAIL
NOT TO SCALE

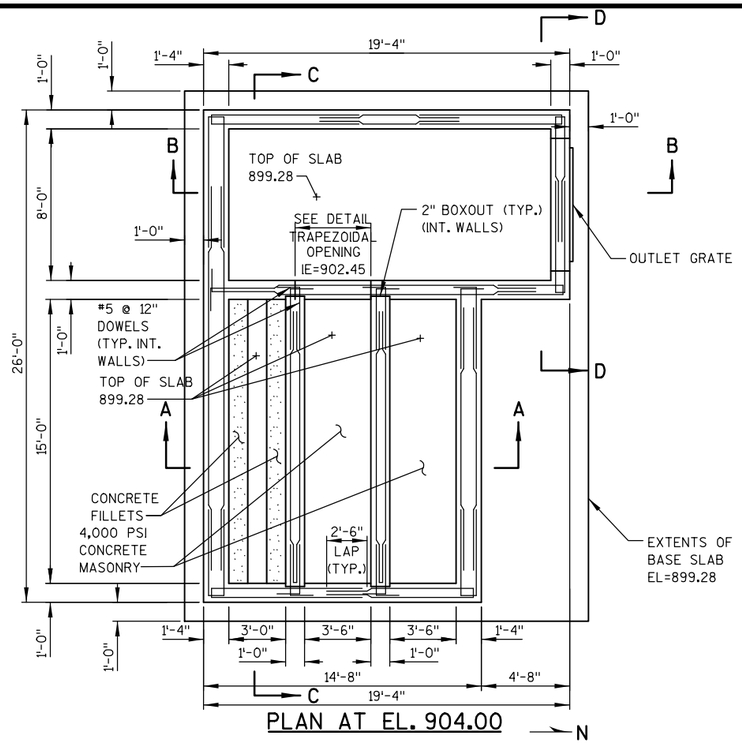
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAIL - SAND AND TRASH COLLECTOR	SHEET 80	E



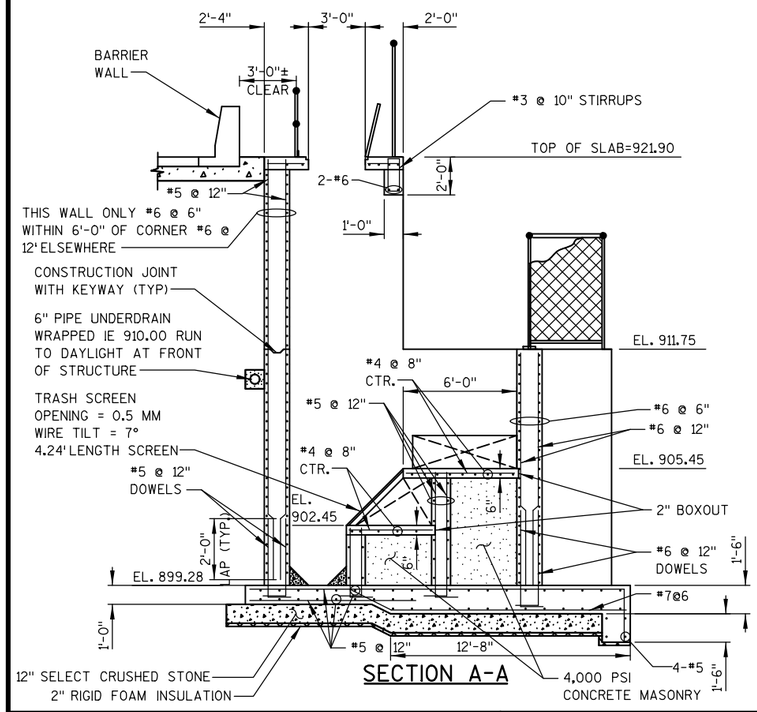
PLAN AT EL. 922.25



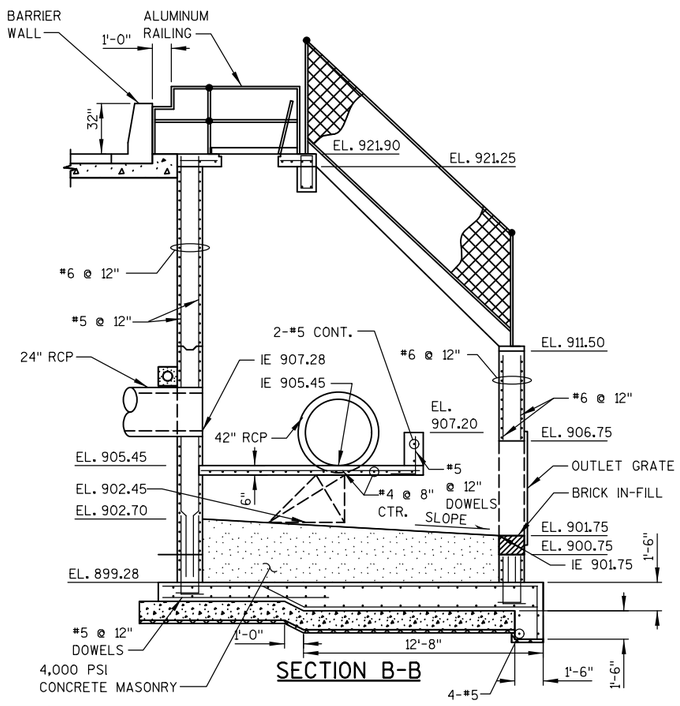
PLAN AT EL. 909.00



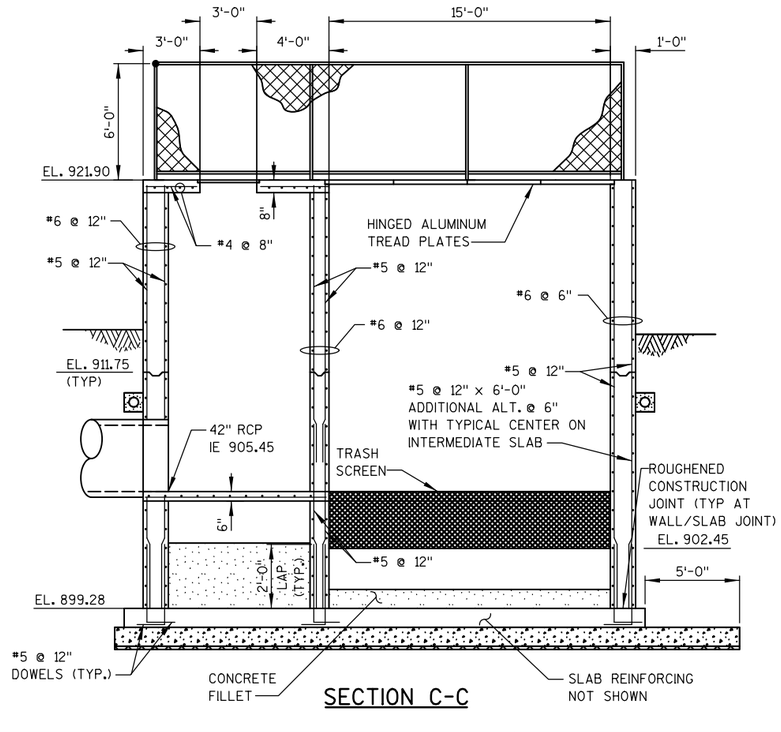
PLAN AT EL. 904.00



SECTION A-A

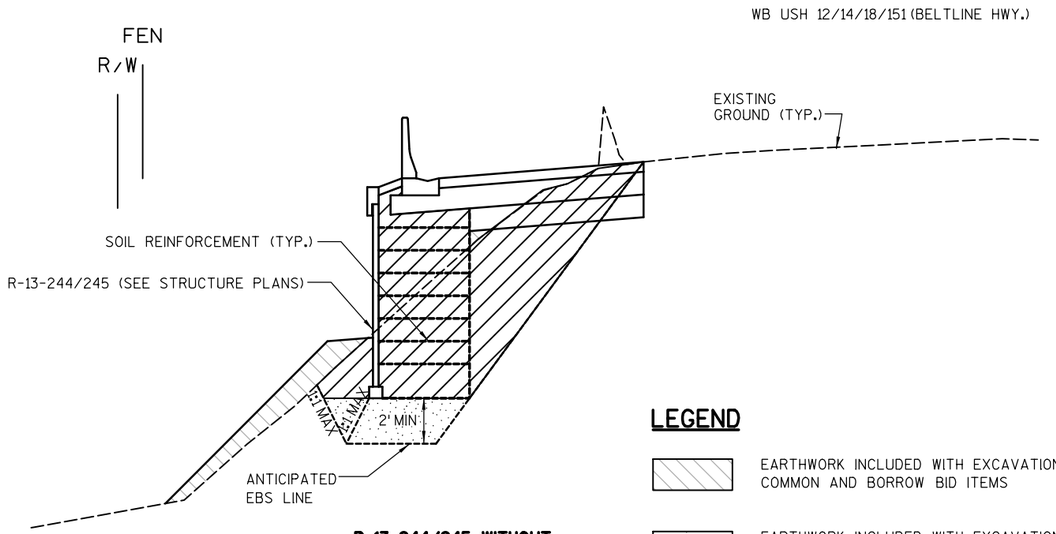


SECTION B-B



SECTION C-C

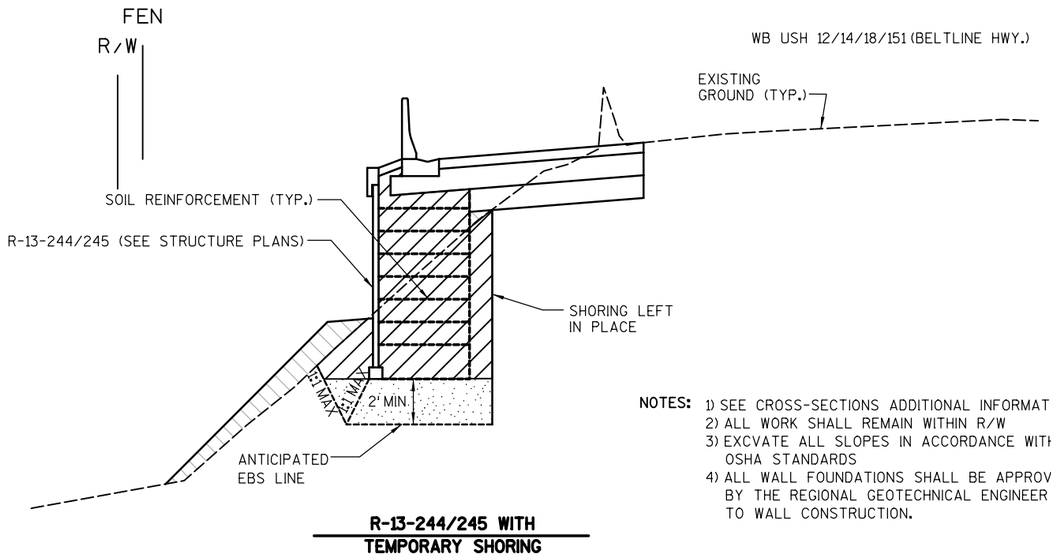
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAIL - SAND AND TRASH COLLECTOR	SHEET 81	E



R-13-244/245 WITHOUT TEMPORARY SHORING

LEGEND

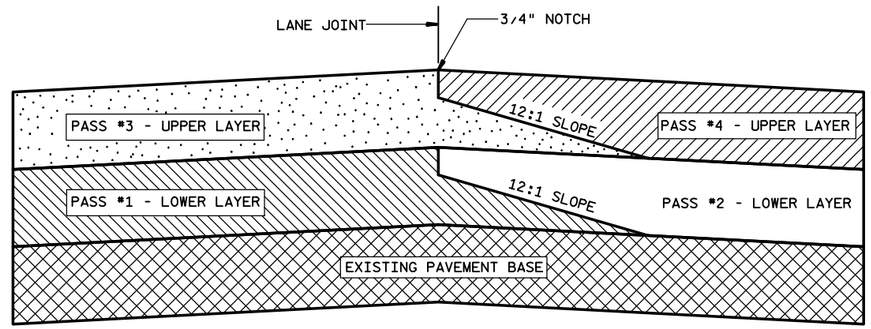
- EARTHWORK INCLUDED WITH EXCAVATION COMMON AND BORROW BID ITEMS
- EARTHWORK INCLUDED WITH EXCAVATION COMMON AND BACKFILL GRANULAR BID ITEMS
- EARTHWORK AND BACKFILL INCLUDED WITH BID ITEM AND MEETING SPECIFICATIONS OF "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".



R-13-244/245 WITH TEMPORARY SHORING

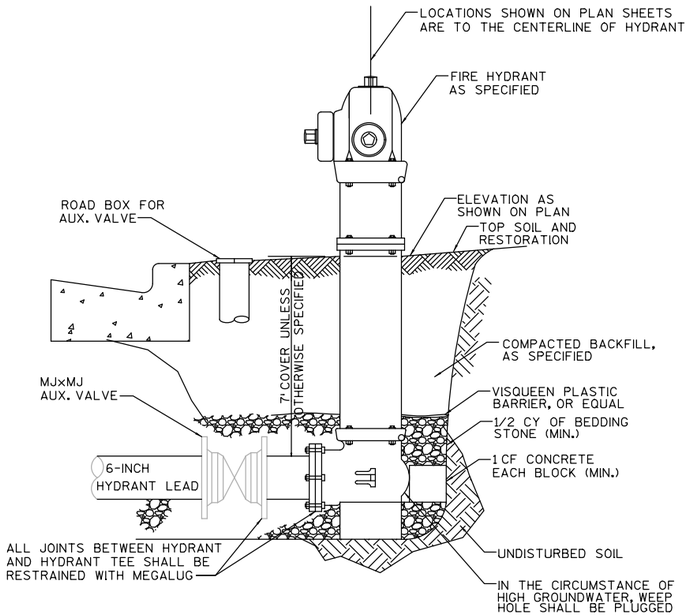
NOTES:
1) SEE CROSS-SECTIONS ADDITIONAL INFORMATION
2) ALL WORK SHALL REMAIN WITHIN R/W
3) EXCVATE ALL SLOPES IN ACCORDANCE WITH OSHA STANDARDS
4) ALL WALL FOUNDATIONS SHALL BE APPROVED BY THE REGIONAL GEOTECHNICAL ENGINEER PRIOR TO WALL CONSTRUCTION.

R-13-244/245 EARTHWORK DETAILS

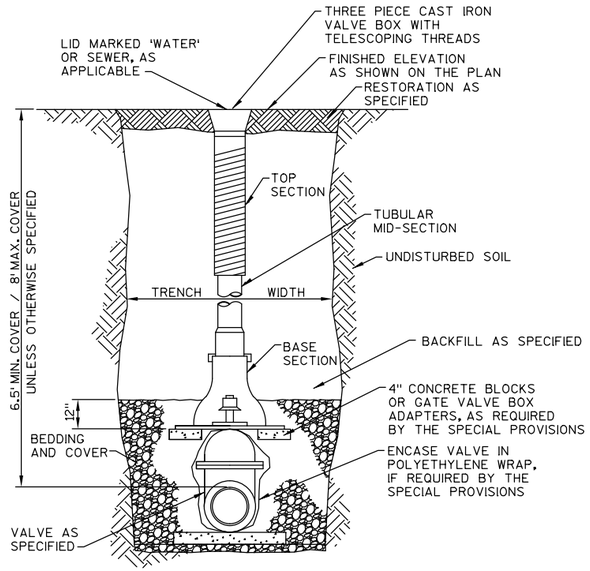


(LOWER AND UPPER LAYERS)

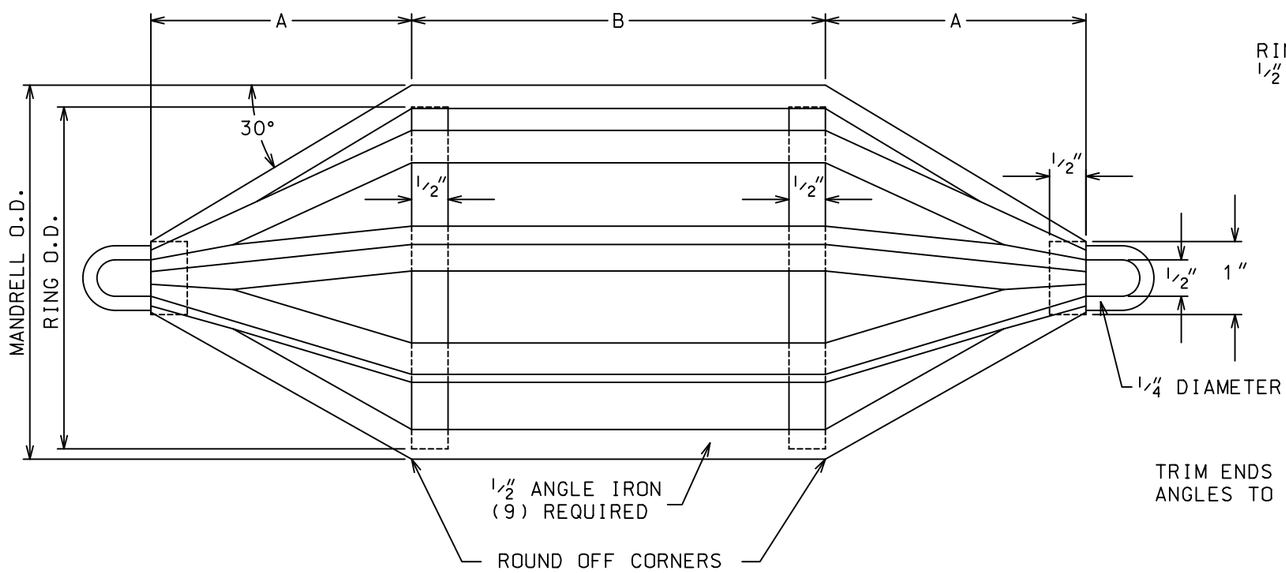
TYPICAL PAVEMENT CROSS SECTIONS OF TAPERED AND NOTCHED LONGITUDINAL JOINTS



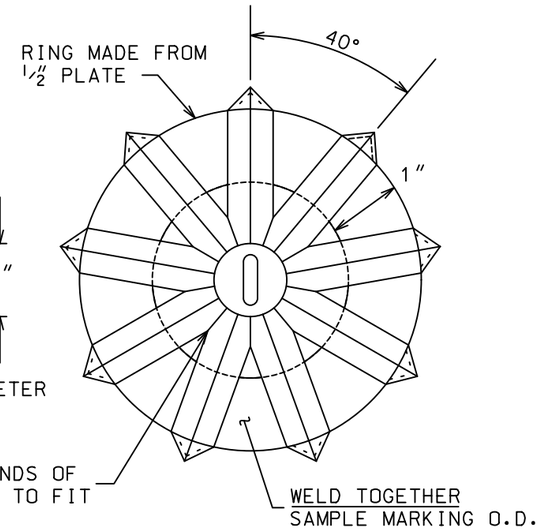
HYDRANT INSTALLATION



GATE VALVE ASSEMBLY



SIDE VIEW



END VIEW

NOMINAL PIPE SIZE ID, in	DIMENSIONS		MANDRELL O.D., in	RING O.D., in
	A, in	B, in		
6	4.0	4	5.61	4.90
8	5.3	6	7.36	6.65
10	6.7	6	9.21	8.50
12	8.0	8	11.06	10.35
15	10.0	9	13.82	13.11

MANDREL FOR USE IN ALL P.V.C. SEWER PIPE

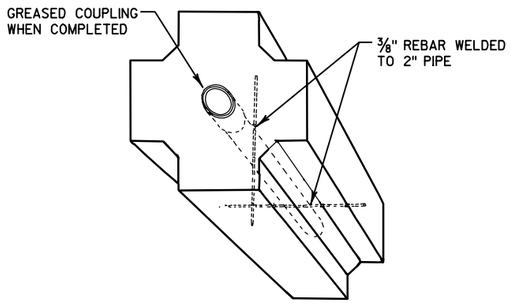
NOTE:

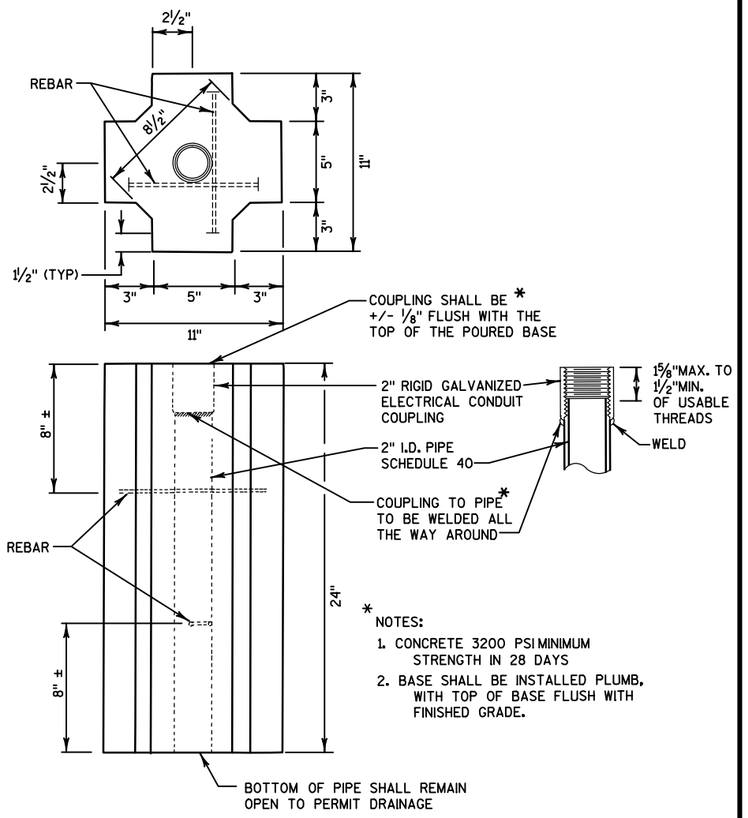
AFTER CONSTRUCTION IS COMPLETE, TRUE THE O.D. DIMENSION FOR THE FULL LENGTH OF "B" TO +/-0.010" BY TOOL AND LATHE OR GRINDING.

CITY OF MADISON
ENGINEERING DIVISION

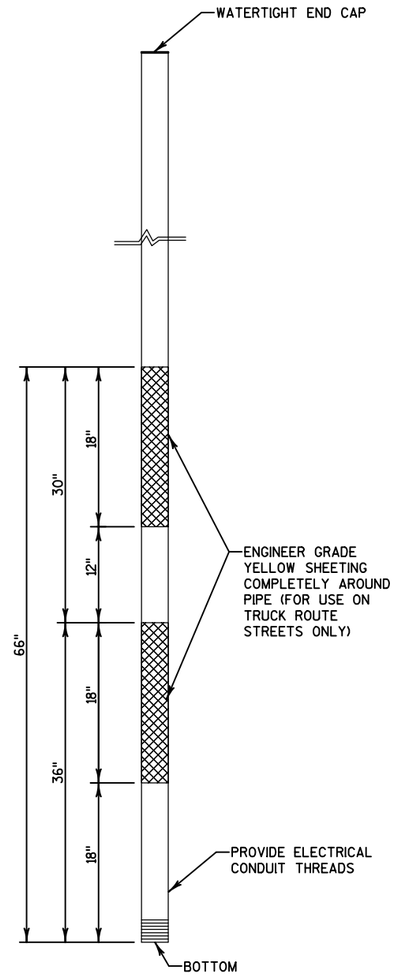
MANDREL DETAIL

STANDARD DETAIL DRAWING 5.1.1

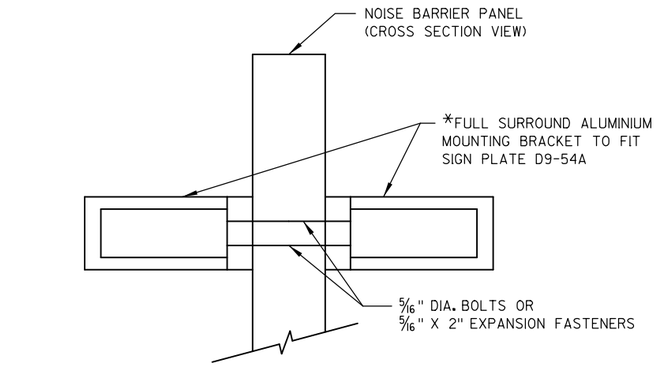




PRECAST SIGN POST BASE



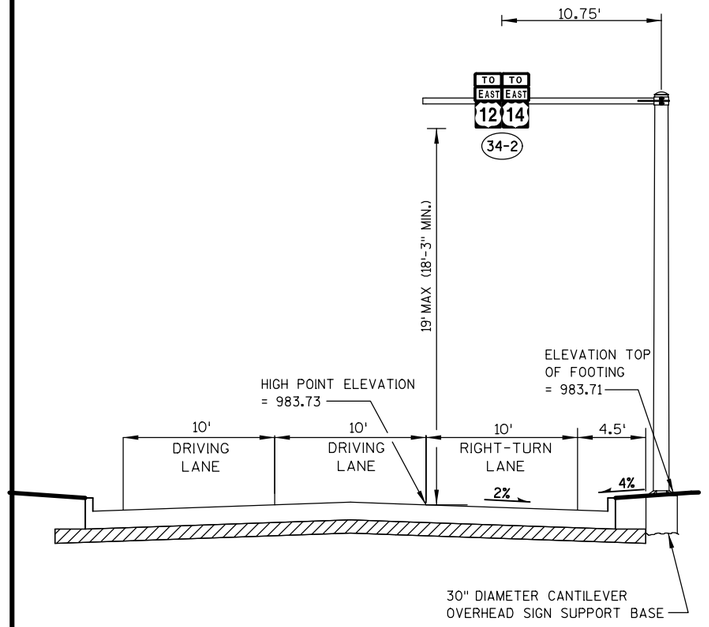
POSTS ROUND TUBULAR STEEL 2-INCH



*FIRE HYDRANT SIGNS, MOUNTING BRACKETS AND INSTALLATION PAID UNDER THE ITEM "NOISE BARRIERS DOUBLE-SIDED SOUND ABSORPTIVE"

PERPENDICULAR FIRE HYDRANT SIGN FOR NOISE BARRIER

(SEE PERMANENT SIGNING SHEETS AND STRUCTURE N-13-2 PLANS FOR ADDITIONAL INFORMATION)



OVERHEAD SIGN SUPPORTS S-13-0424 (LOOKING NORTH)
STA 96+73 W
WHITNEY WAY AND GILBERT ROAD INTERSECTION
FATIGUE CATEGORY III
ONE CHORD MONOTUBE

GENERAL NOTES

DRAWINGS NOT TO SCALE

SEE S.D.D. 30" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE FOR ADDITIONAL INFORMATION

DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF, AND SUPPLEMENTAL TO THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS".

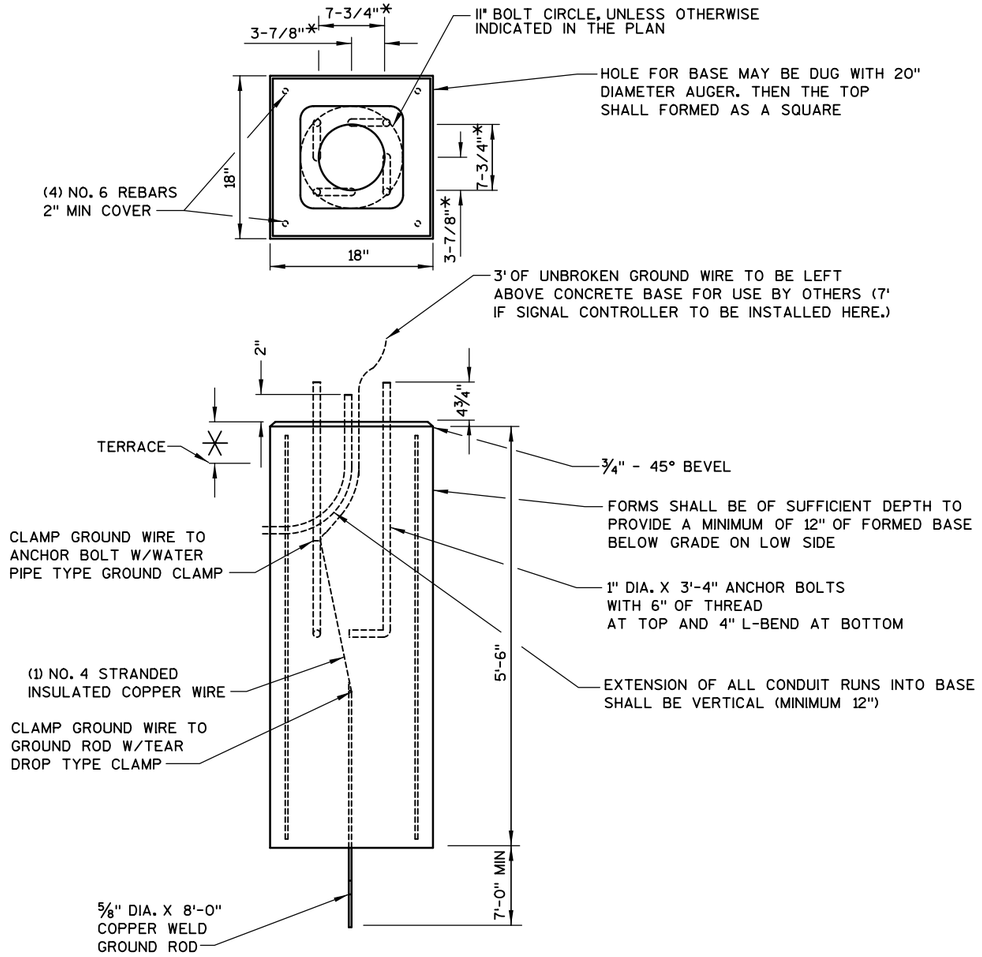
THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.

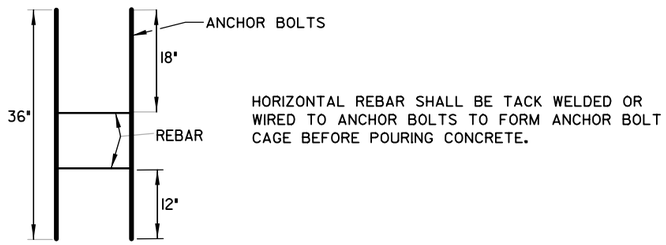
PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORTS".

SIZE THE ANCHOR BOLT/TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.

SIGNS OR BLANKS SHALL BE INSTALLED ON THE OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION. BLANKS, IF USED, SHALL BE OF THE SAME SIZE AND LOCATION AS PERMANENT SIGNS.

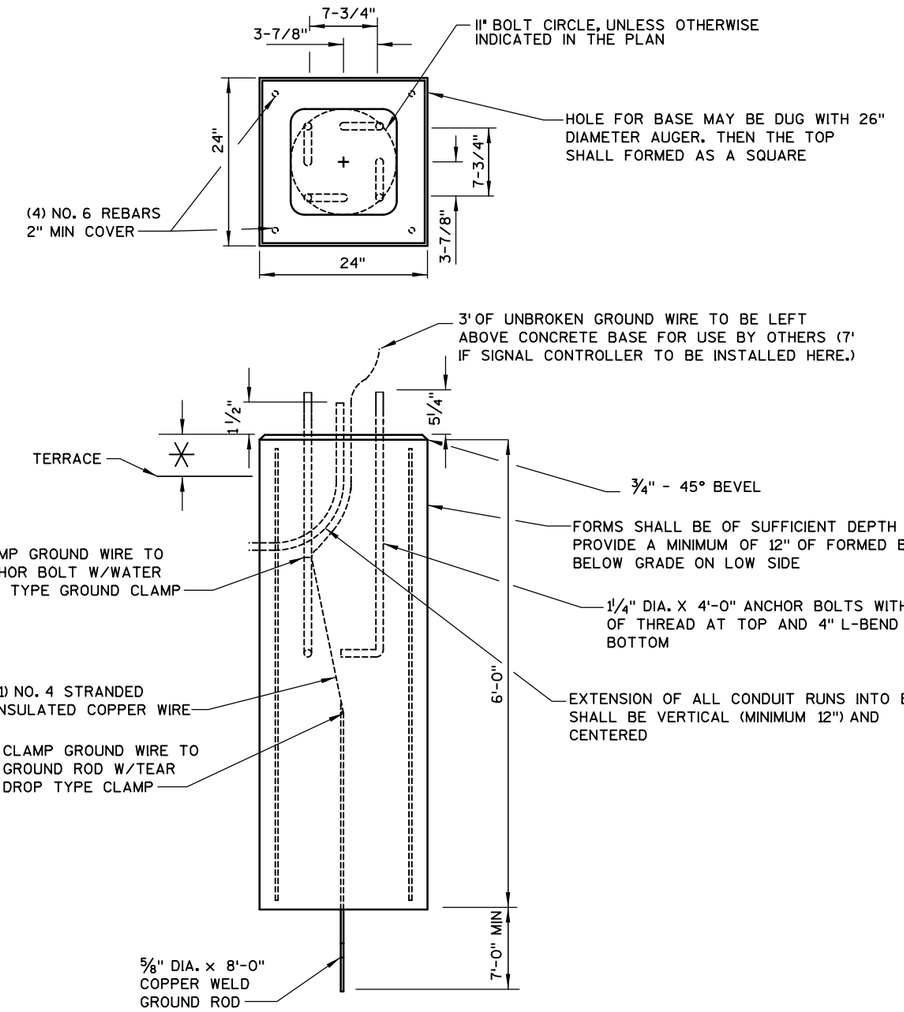
DESIGN THE STRUCTURE BASE PLATE CONNECTION TO ACCOMMODATE A MINIMUM OF SIX (6) ANCHOR BOLTS.

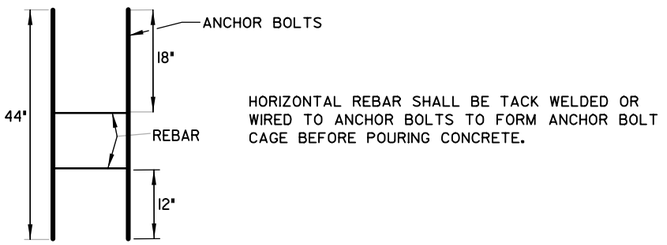




* = 4" ±½" FOR GRASS TERRACE
2" ±½" FOR CONCRETE TERRACE

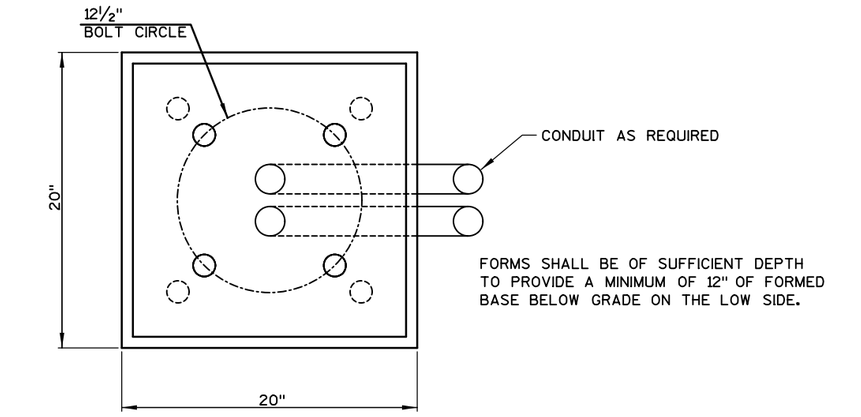
CONCRETE BASE TYPE LB-3

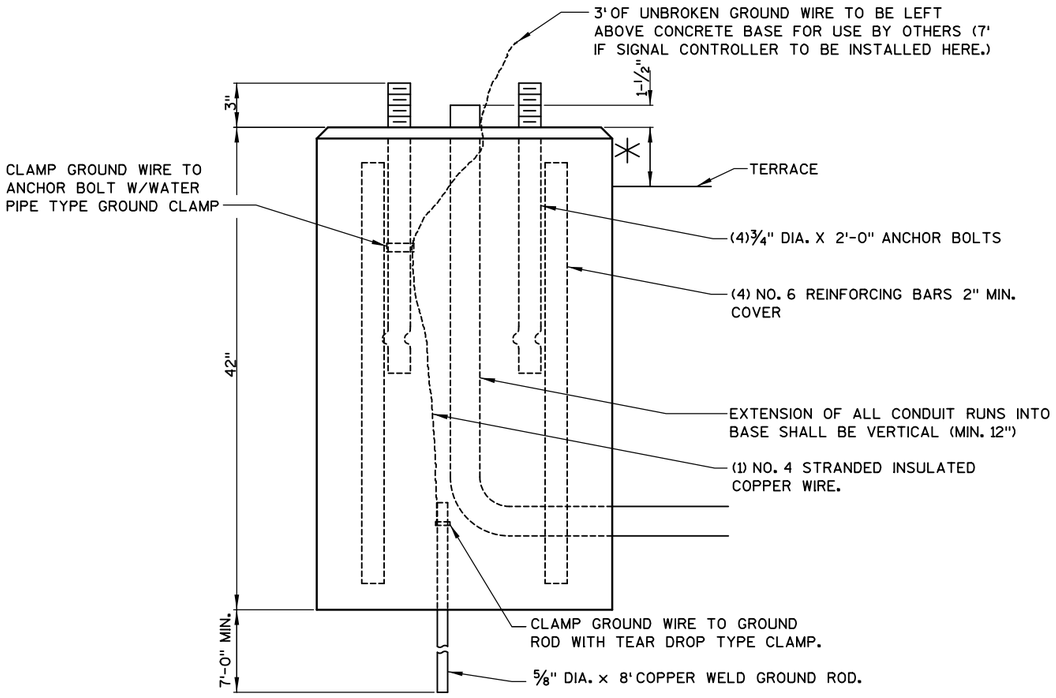




* = 4" ±½" FOR GRASS TERRACE
2" ±½" FOR CONCRETE TERRACE

CONCRETE BASE TYPE LB-8





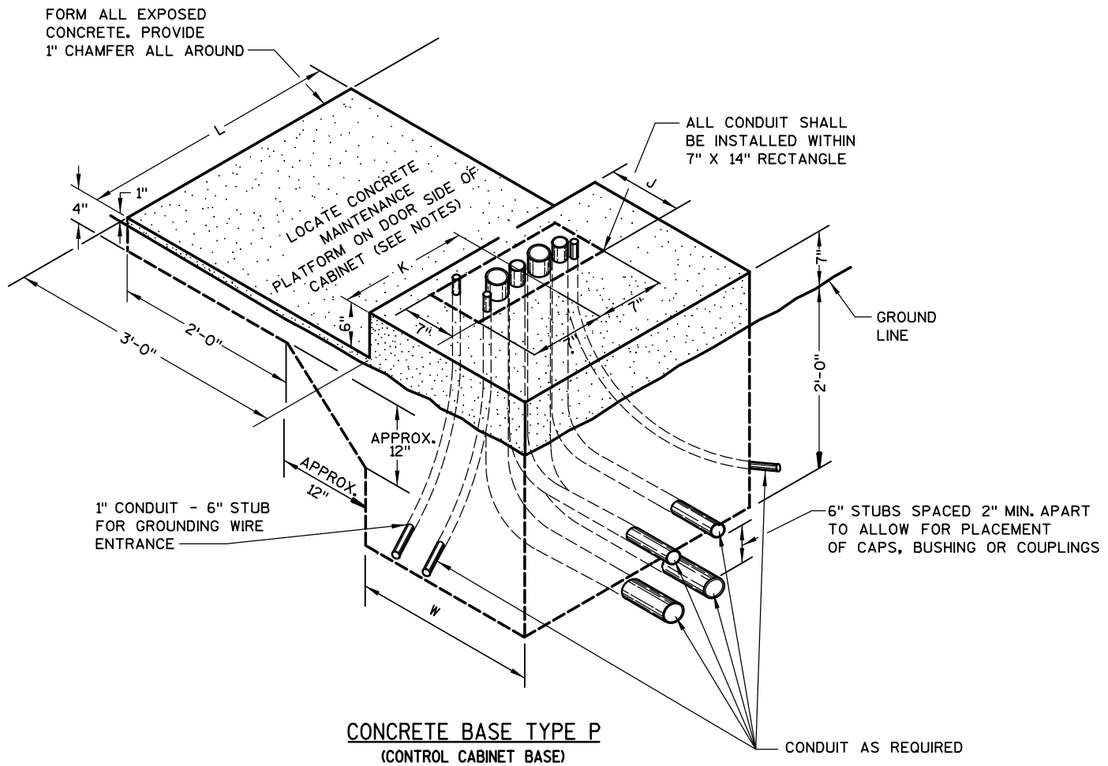
CONCRETE BASE TYPE G

✳ = 4" ±½" FOR GRASS TERRACE
2" ±½" FOR CONCRETE TERRACE

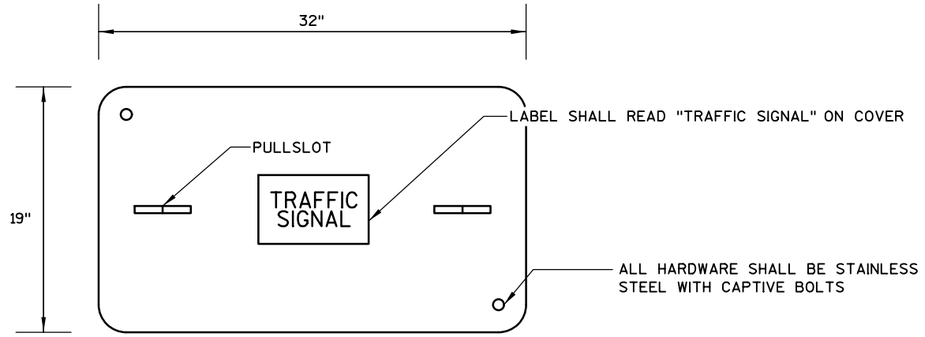
CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	L	W	J	K	
TYPE P	48"	30"	16"	24"	1.2

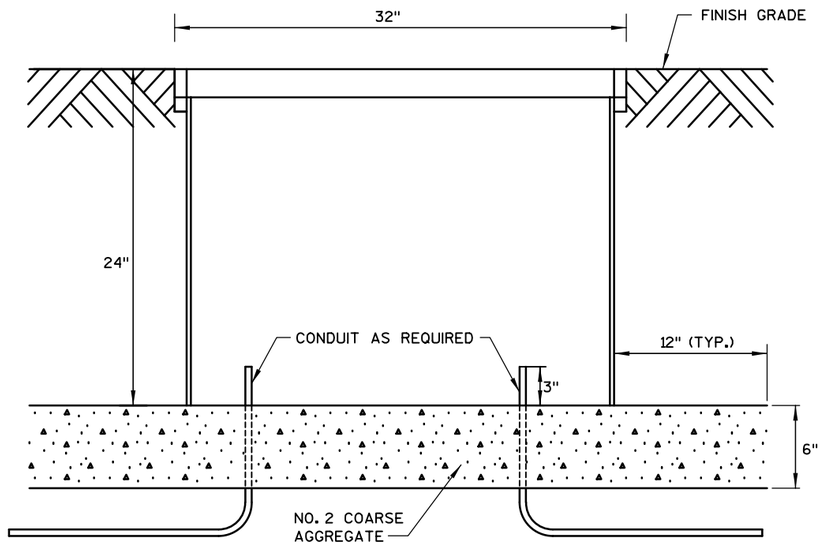
GENERAL NOTES

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
2. ALL CONDUIT SHALL BE PVC, SCHEDULE 40
3. DEPTH OF CONDUIT EXITING THE BASE SHALL MATCH THE DEPTH SPECIFIED FOR CONDUIT INSTALLATION.
4. ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.
5. CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.
6. MAINTENANCE PLATFORM SHALL NOT BE INSTALLED WHEN THE SURROUNDING AREA IS PAVED.
7. MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.
8. ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.
9. CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MINIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.
10. CONDUITS SHALL EXIT THE BASE IN THE DIRECTION OF THE STRUCTURE IT IS TERMINATING INTO.
11. MAINTENANCE PLATFORM SIZE MAY VARY ON ACCOUNT OF CONDITIONS. VERIFY THE MAINTENANCE PLATFORM SIZE WITH ENGINEER PRIOR TO POURING BASE.

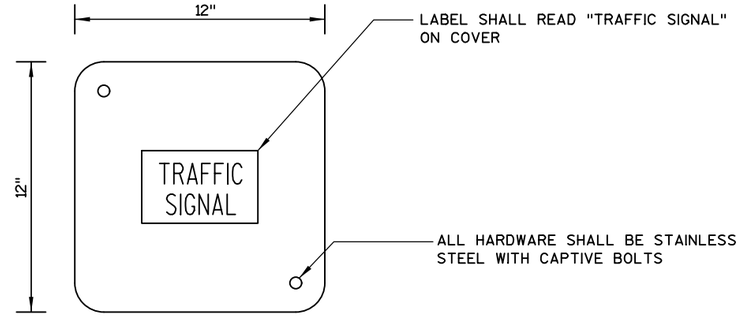


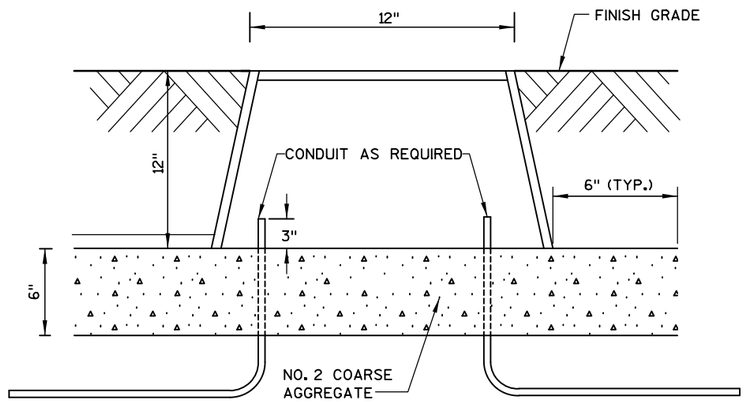
CONCRETE BASE TYPE P
(CONTROL CABINET BASE)



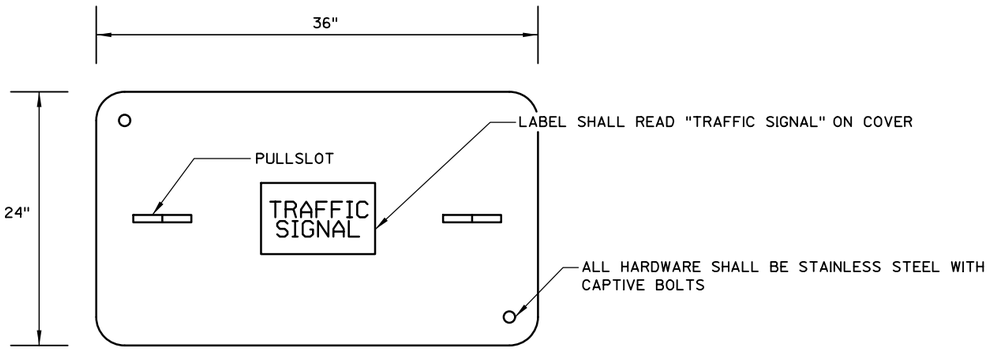


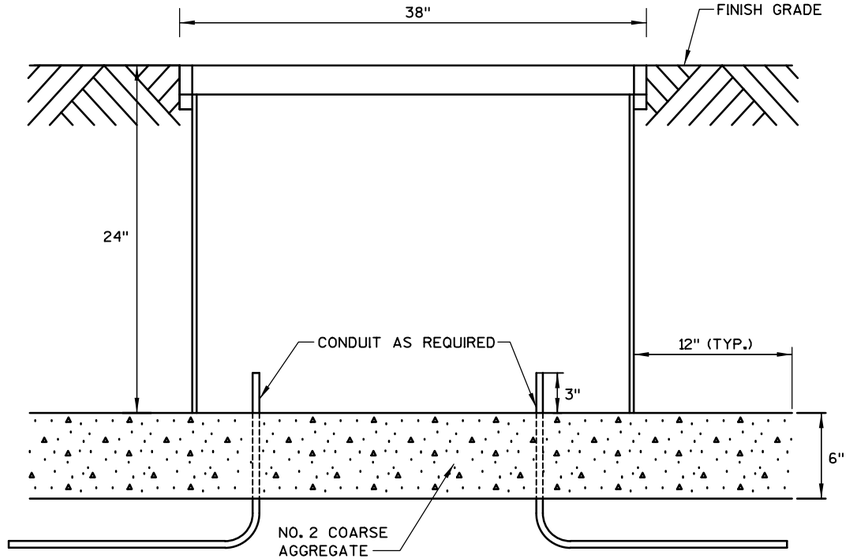
PULL BOX TYPE I



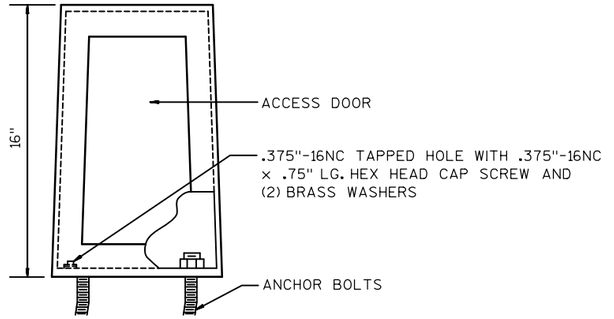


PULL BOX TYPE III

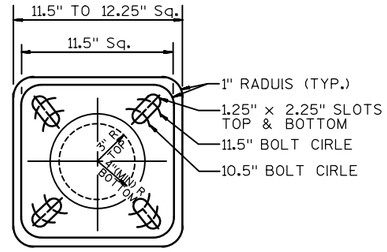




PULL BOX TYPE V



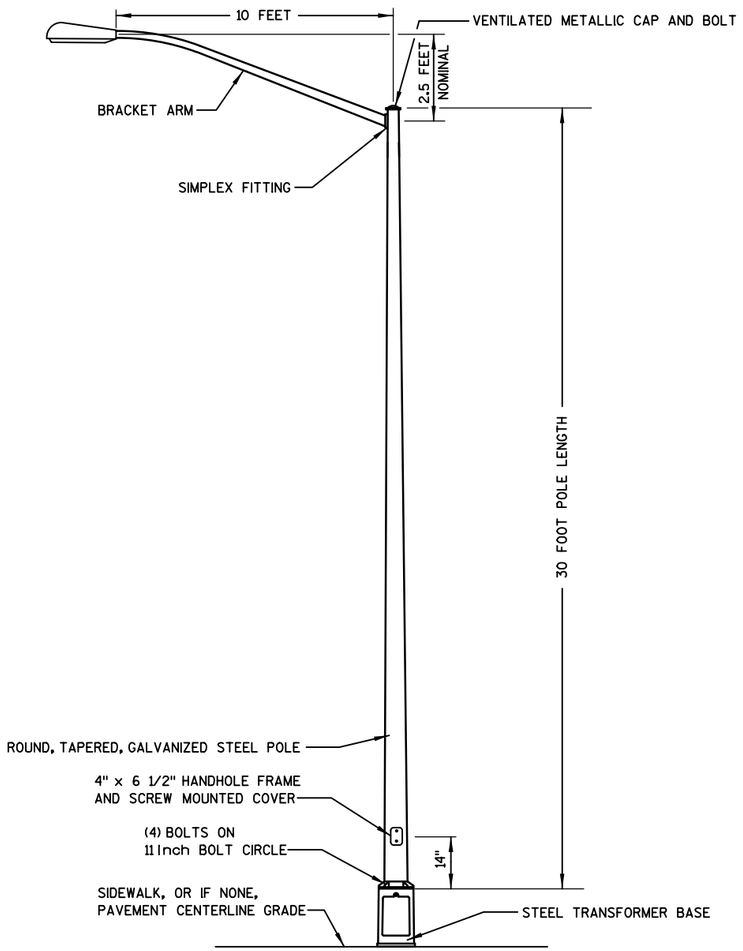
FRONT VIEW



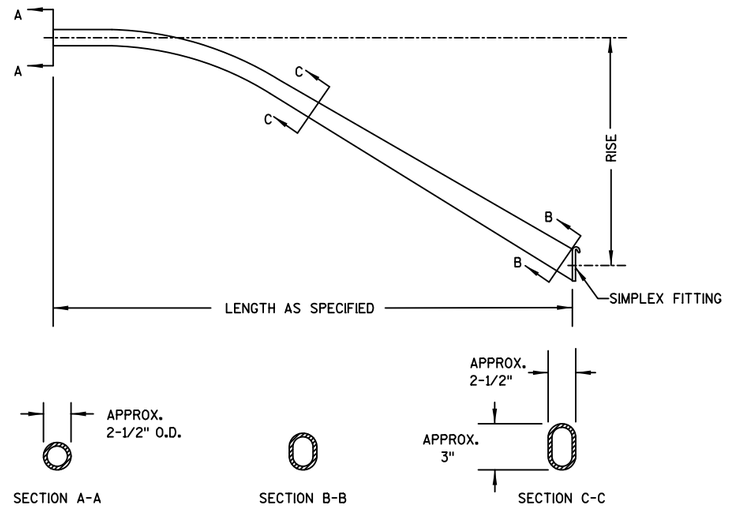
PLAN VIEW

TRANSFORMER BASE STEEL, 16-INCH

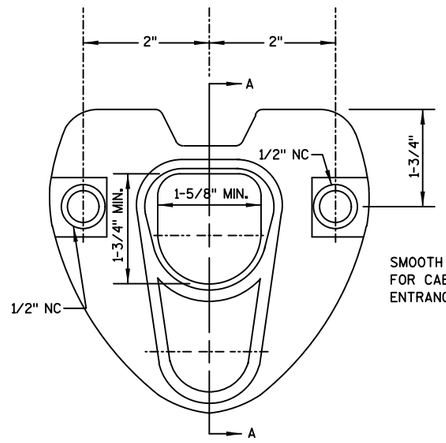
NOTE :
FINISH SHALL BE HOT DIPPED GALVANIZED
SIDEWALL THICKNESS SHALL BE 7 GAUGE (MIN.)
SKIRT MATERIAL SHALL BE HIGH STRENGTH, LOW ALLOY STEEL : 50,000 PSI MINIMUM YIELD 4-1.25" × 4" BOLTS WITH FLAT WASHER AND NUT SHALL BE FURNISHED WITH EACH BASE

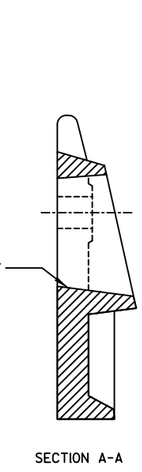


GALVANIZED STEEL POLE
(POLE 30 FOOT, 7 OR 11 GAUGE)

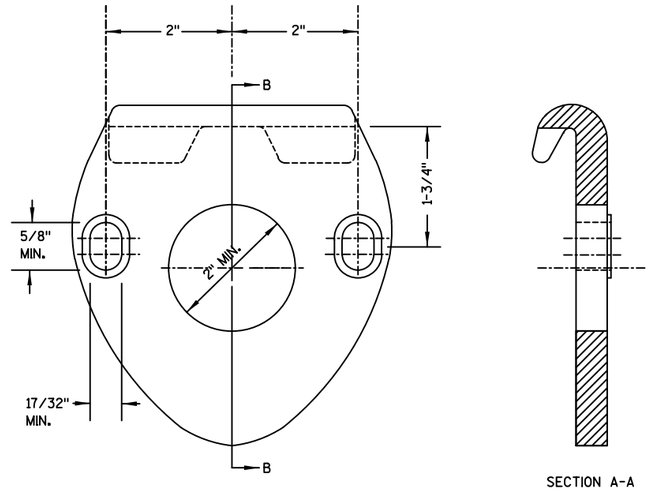


LUMINAIRE ARM





TYPICAL POLE MOUNTED FITTING
(SIMPLEX FITTING)



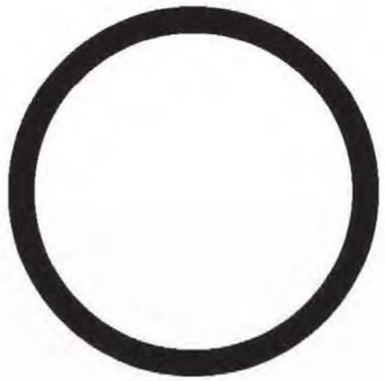
TYPICAL MOUNTED MAST ARM FITTING
(SIMPLEX FITTING)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 90	E



DARK GREY

Fed Std # 34086



GREEN

Fed Std # 24241



ORIGINAL



RED Fed Std # 20152



LIGHT GREY

Fed Std # 36559



CREAM

Fed Std # 36642

MEDALLION CONCRETE STAINING MULTICOLOR DETAIL

B-13-664, R-13-235, R-13-236

(SEE SPECIAL PROVISIONS FOR ADDITIONAL DETAILS)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021057_cd_Medallion Concrete Staining Multi-Color.dgn PLOT DATE : 2/7/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTE: LOCATIONS FOR THE CONCRETE BARRIER ARE TO THE CENTER OF THE BARRIER UNLESS OTHERWISE NOTED.

CARLING DRIVEWAY

THURSTON LANE TEMP

FREEPORT CONNECTION TEMP

EAST VERONA ROAD FRONTAGE ROAD

EB USH 18/151 (VERONA ROAD)

WB USH 18/151 (VERONA ROAD)

SW COMMUTER BIKE PATH TEMP

MATCHLINE STA. 17+00FP

11+50TL

11+00TL

10+00CW

10+00TL

13+00FP

12+00FP

11+00FP

10+00FP

STA. 13+70FP, 15'LT

14+00FP

STA. 14+35FP, 45'LT

STA. 14+14FP, 22'LT

STA. 14+51FP, 64'LT

STA. 14+80FP, 47'LT

CRASH CUSHIONS STA. 15+10FP, 41'RT

STA. 15+13FP, 2.3' RT

CRASH CUSHIONS STA. 14+97FP, 4.8'LT

STA. 15+13FP, 2.7' LT

STA. 15+81FP, 20.5'RT

STA. 15+81FP, 2.5'RT

STA. 15+81FP, 2.5'LT

STA. 15+81FP, 20.5'LT

STA. 16+25FP, 20.5'RT

STA. 16+25FP, 2.5'RT

STA. 16+25FP, 2.5'LT

STA. 16+25FP, 20.5'LT

STA. 16+71FP, 20.5'LT

STA. 16+81FP, 20.5'LT

18+00BK

18+00AH

18+00CF

15+00BF

15+00AF

18+00AF

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONCRETE BARRIER - FREEPORT CONNECTION TEMP (FP)	SHEET 92	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CONCRETE BARRIER\024504_PM(FREEPORT).DWG PLOT DATE : January 24, 2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:40_XREF

NOTE: LOCATIONS FOR THE CONCRETE BARRIER ARE TO THE CENTER OF THE BARRIER UNLESS OTHERWISE NOTED.

SW COMMUTER BIKE PATH TEMP

16+00BI

15+00BI

STA. 17+73FP, 20.9'LT

STA. 17+03FP, 3.2'LT

STA. 18+66FP, 22.7'LT

18+00FP

19+00FP

FREEPORT CONNECTION TEMP

20+00FP

17+00FP

CRASH CUSHIONS
STA. 17+21FP, 0.5'LT

STA. 17+03FP, 1.8' RT

STA. 18+36FP, 21'RT

MATCHLINE STA. 17+00FP

93+00EE

94+00EE

95+00EE

96+00EE

97+00EE

21+00FP

21+94FP

STA. 21+20FP, 15.5'RT

WEST VERONA ROAD FRONTAGE ROAD

WB USH 18/151 (VERONA ROAD)

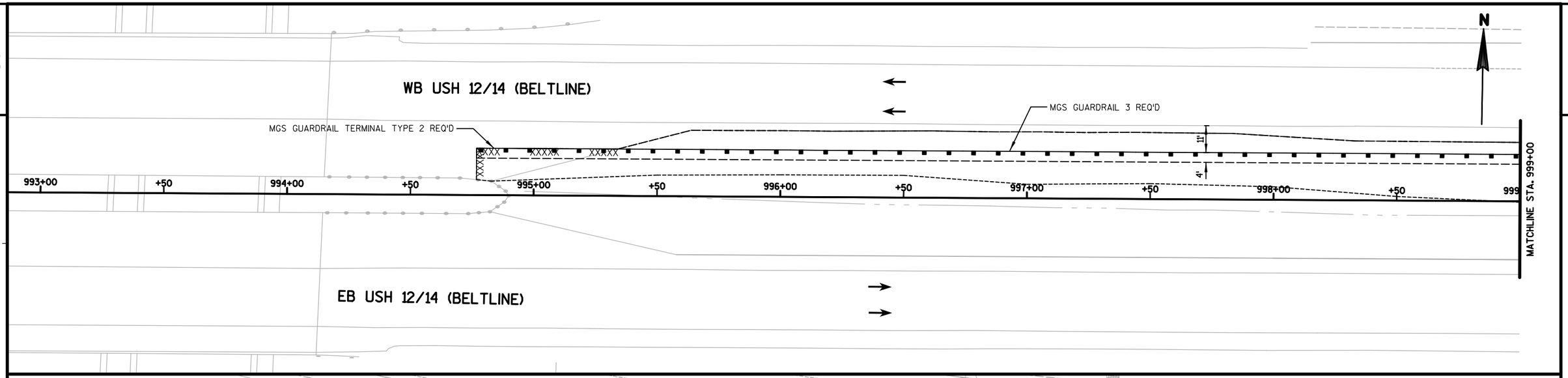
EB USH 18/151 (VERONA ROAD)

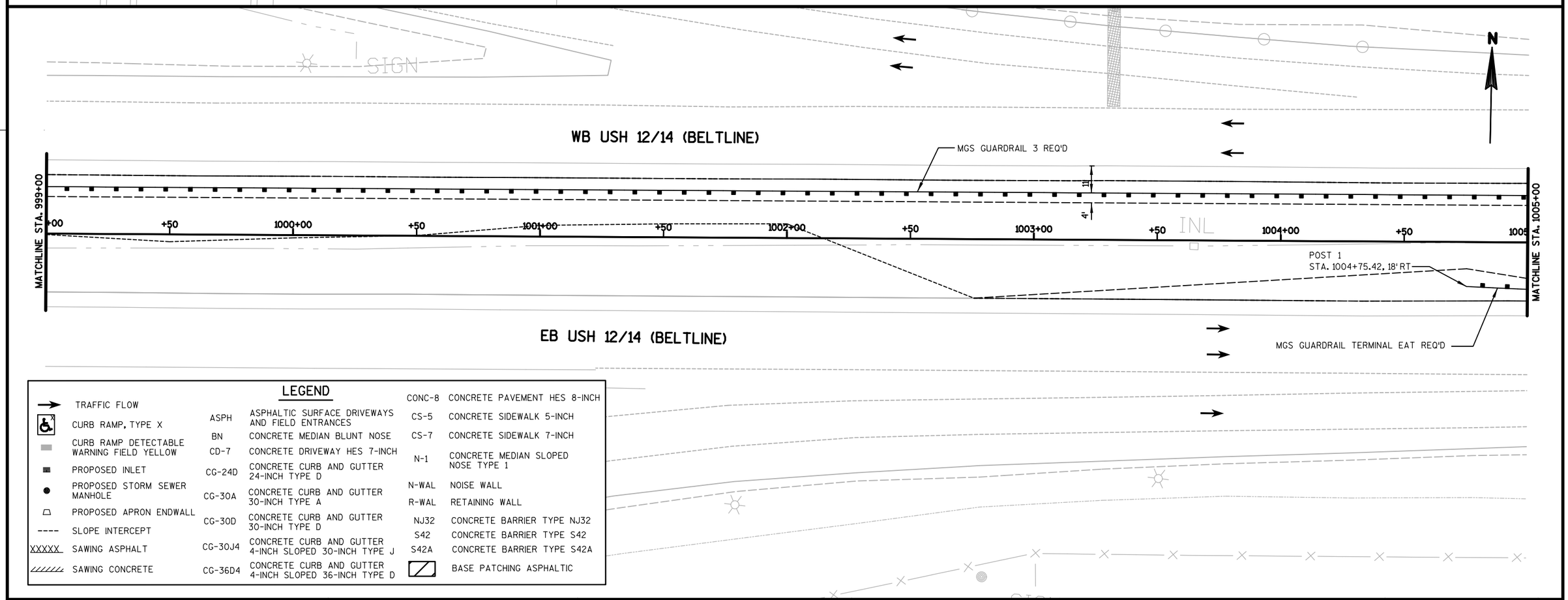
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONCRETE BARRIER - FREEPORT CONNECTION TEMP (FP)	SHEET 93	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CONCRETE BARRIER\024504_PM(FREEPORT).DWG PLOT DATE : January 24, 2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:40_XREF

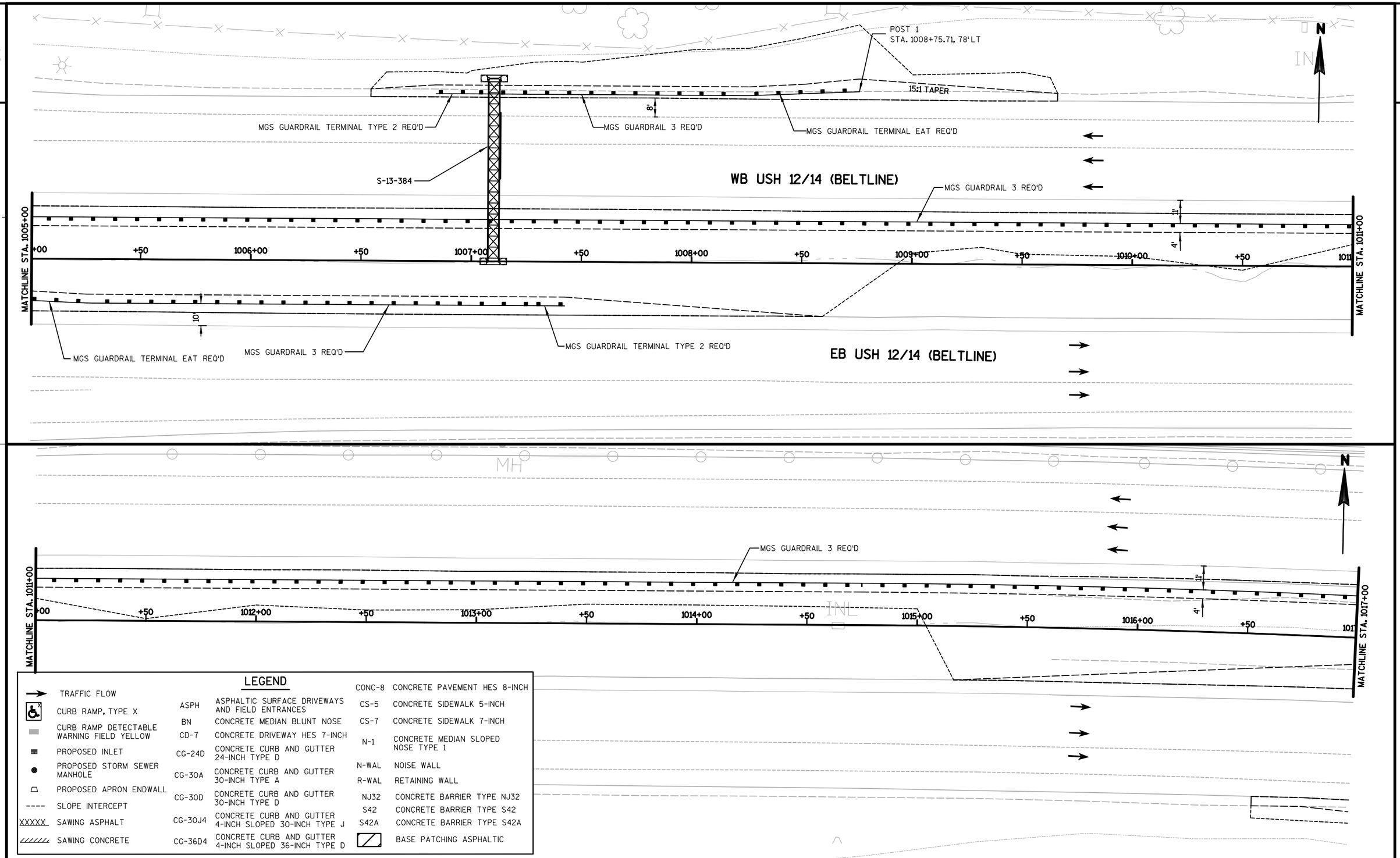
WISDOT/CADDS SHEET 42





LEGEND

→	TRAFFIC FLOW			CONC-8	CONCRETE PAVEMENT HES 8-INCH
♿	CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CS-5	CONCRETE SIDEWALK 5-INCH
▬	CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE	CS-7	CONCRETE SIDEWALK 7-INCH
▬	PROPOSED INLET	CD-7	CONCRETE DRIVEWAY HES 7-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
●	PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-WAL	NOISE WALL
⏢	PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	R-WAL	RETAINING WALL
----	SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	NJ32	CONCRETE BARRIER TYPE NJ32
XXXXX	SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	S42	CONCRETE BARRIER TYPE S42
//////	SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42A	CONCRETE BARRIER TYPE S42A
				▨	BASE PATCHING ASPHALTIC



LEGEND

TRAFFIC FLOW		CONC-8	CONCRETE PAVEMENT HES 8-INCH
CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CS-5 CONCRETE SIDEWALK 5-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE	CS-7 CONCRETE SIDEWALK 7-INCH
PROPOSED INLET	CD-7	CONCRETE DRIVEWAY HES 7-INCH	N-1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-WAL NOISE WALL
PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	R-WAL RETAINING WALL
SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	NJ32 CONCRETE BARRIER TYPE NJ32
SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	S42 CONCRETE BARRIER TYPE S42
SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42A CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET 95	E

LEGEND

→	TRAFFIC FLOW		
♿	CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE
	PROPOSED INLET	CD-7	CONCRETE DRIVEWAY HES 7-INCH
●	PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
	PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A
----	SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
XXXXX	SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J
//////	SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D

CONC-8	CONCRETE PAVEMENT HES 8-INCH		
CS-5	CONCRETE SIDEWALK 5-INCH		
CS-7	CONCRETE SIDEWALK 7-INCH		
N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1		
N-WAL	NOISE WALL		
R-WAL	RETAINING WALL		
NJ32	CONCRETE BARRIER TYPE NJ32		
S42	CONCRETE BARRIER TYPE S42		
S42A	CONCRETE BARRIER TYPE S42A		
▨	BASE PATCHING ASPHALTIC		

N

INL MH MH W MH MH W SIGN INL MH SIGN

WB USH 12/14 (BELTLINE)

MGS GUARDRAIL 3 REQ'D

11'

4'

MATCHLINE STA. 1017+00

+00 +50 1018+00 +50 1019+00 +50 1020+00 +50 1021+00 +50 1022+00 +50 1023

MATCHLINE STA. 1023+00

MGS GUARDRAIL TERMINAL EAT REQ'D

POST 1
STA. 1017+24.22, 16.38' RT

MGS GUARDRAIL 3 REQ'D

S-13-383

MGS GUARDRAIL TERMINAL TYPE 2 REQ'D

EB USH 12/14 (BELTLINE)

15:1 TAPER

15:1 TAPER

POST 1
STA. 1017+74.44, 77.81' RT

MGS GUARDRAIL 3 REQ'D

MGS GUARDRAIL TERMINAL TYPE 2 REQ'D

MGS GUARDRAIL TERMINAL EAT REQ'D

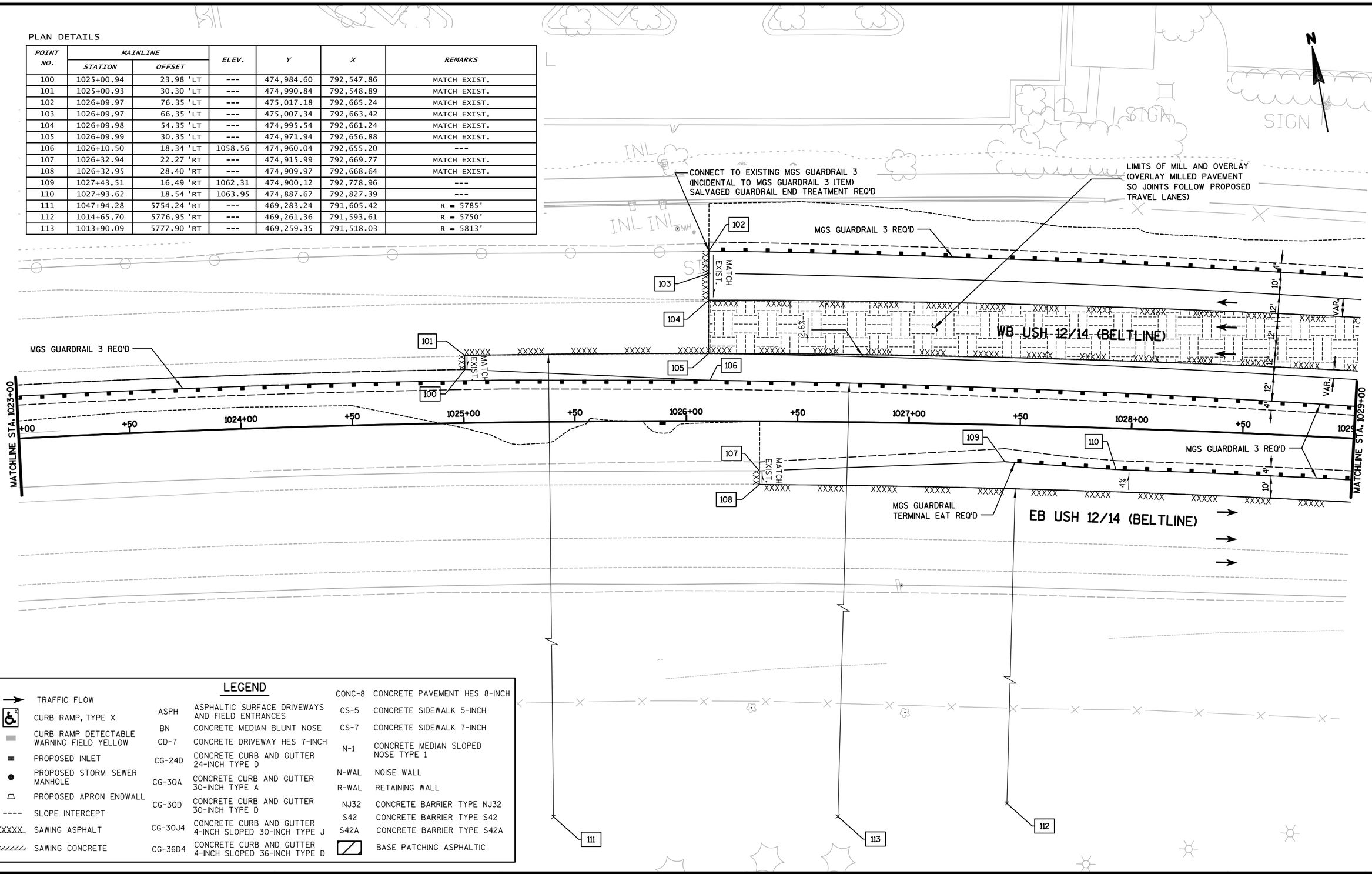
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021202_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

PLAN DETAILS

POINT NO.	MAINLINE STATION	MAINLINE OFFSET	ELEV.	Y	X	REMARKS
100	1025+00.94	23.98 'LT	---	474,984.60	792,547.86	MATCH EXIST.
101	1025+00.93	30.30 'LT	---	474,990.84	792,548.89	MATCH EXIST.
102	1026+09.97	76.35 'LT	---	475,017.18	792,665.24	MATCH EXIST.
103	1026+09.97	66.35 'LT	---	475,007.34	792,663.42	MATCH EXIST.
104	1026+09.98	54.35 'LT	---	474,995.54	792,661.24	MATCH EXIST.
105	1026+09.99	30.35 'LT	---	474,971.94	792,656.88	MATCH EXIST.
106	1026+10.50	18.34 'LT	1058.56	474,960.04	792,655.20	---
107	1026+32.94	22.27 'RT	---	474,915.99	792,669.77	MATCH EXIST.
108	1026+32.95	28.40 'RT	---	474,909.97	792,668.64	MATCH EXIST.
109	1027+43.51	16.49 'RT	1062.31	474,900.12	792,778.96	---
110	1027+93.62	18.54 'RT	1063.95	474,887.67	792,827.39	---
111	1047+94.28	5754.24 'RT	---	469,283.24	791,605.42	R = 5785'
112	1014+65.70	5776.95 'RT	---	469,261.36	791,593.61	R = 5750'
113	1013+90.09	5777.90 'RT	---	469,259.35	791,518.03	R = 5813'

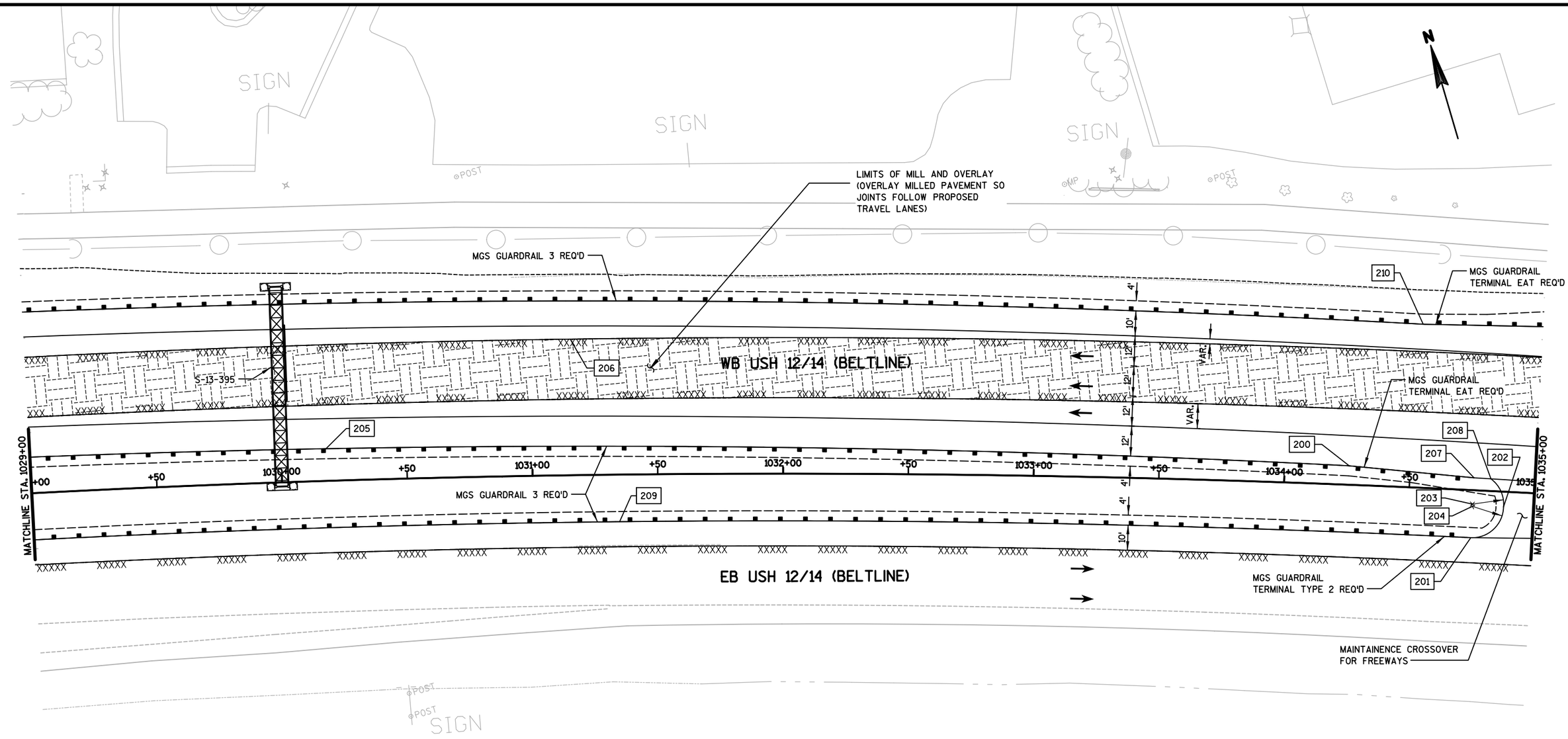


LEGEND

TRAFFIC FLOW	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8 CONCRETE PAVEMENT HES 8-INCH
CURB RAMP, TYPE X	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5 CONCRETE SIDEWALK 5-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7 CONCRETE SIDEWALK 7-INCH
PROPOSED INLET	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED STORM SEWER MANHOLE	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL NOISE WALL
PROPOSED APRON ENDWALL	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL RETAINING WALL
SLOPE INTERCEPT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32 CONCRETE BARRIER TYPE NJ32
SAWING ASPHALT	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42 CONCRETE BARRIER TYPE S42
SAWING CONCRETE			S42A CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021203_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



LEGEND

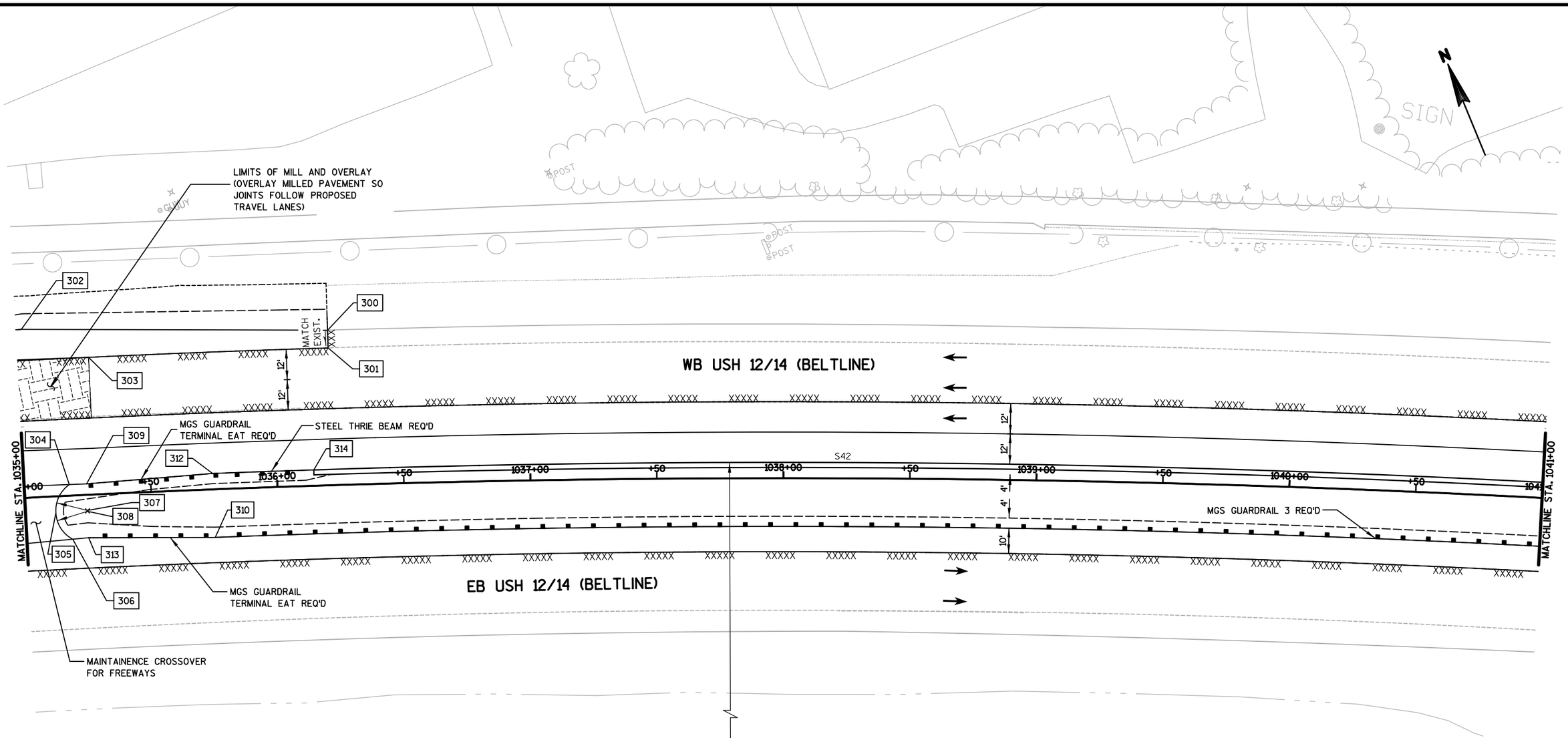
TRAFFIC FLOW	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8 CONCRETE PAVEMENT HES 8-INCH
CURB RAMP, TYPE X	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5 CONCRETE SIDEWALK 5-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7 CONCRETE SIDEWALK 7-INCH
PROPOSED INLET	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED STORM SEWER MANHOLE	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL NOISE WALL
PROPOSED APRON ENDWALL	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL RETAINING WALL
SLOPE INTERCEPT			NJ32 CONCRETE BARRIER TYPE NJ32
XXXXX SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	S42 CONCRETE BARRIER TYPE S42
SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42A CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

PLAN DETAILS

POINT NO.	MAINLINE STATION	MAINLINE OFFSET	ELEV.	Y	X	REMARKS
200	1034+25.73	7.56 'LT	1071.34	474,744.48	793,442.68	---
201	1034+75.47	18.97 'RT	1072.86	474,703.32	793,481.12	---
202	1034+87.98	6.06 'RT	1072.01	474,711.41	793,497.16	---
203	1034+75.48	5.57 'RT	---	474,715.98	793,485.52	R = 12.5'
204	1034+75.47	6.47 'RT	---	474,715.13	793,485.22	R = 12.5'
205	1030+17.93	12.85 'LT	1067.51	474,866.10	793,052.73	---
206	1031+15.83	54.32 'LT	---	474,880.60	793,158.59	MATCH EXIST.
207	1034+75.61	4.93 'LT	1071.24	474,725.85	793,489.08	---
208	1034+82.39	4.84 'LT	1071.23	474,723.55	793,495.46	---
209	1031+34.54	18.79 'RT	1070.52	474,805.14	793,156.98	---
210	1034+52.68	65.22 'LT	1073.00	474,790.38	793,486.88	---

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET 98	E

2



LEGEND

→	TRAFFIC FLOW			CONC-8	CONCRETE PAVEMENT HES 8-INCH
	CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CS-5	CONCRETE SIDEWALK 5-INCH
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE	CS-7	CONCRETE SIDEWALK 7-INCH
	PROPOSED INLET	CD-7	CONCRETE DRIVEWAY HES 7-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
●	PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-WAL	NOISE WALL
	PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	R-WAL	RETAINING WALL
----	SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	NJ32	CONCRETE BARRIER TYPE NJ32
XXXXX	SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	S42	CONCRETE BARRIER TYPE S42
//////	SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42A	CONCRETE BARRIER TYPE S42A
					BASE PATCHING ASPHALTIC

PLAN DETAILS

POINT NO.	MAINLINE STATION	MAINLINE OFFSET	ELEV.	Y	X	REMARKS
300	1035+99.07	61.32 'LT	---	474,737.04	793,625.00	MATCH EXIST.
301	1035+99.07	54.26 'LT	---	474,730.43	793,622.54	MATCH EXIST.
302	1035+02.09	66.60 'LT	1073.03	474,775.30	793,534.56	---
303	1035+27.82	54.28 'LT	---	474,755.01	793,554.95	MATCH EXIST.
304	1035+17.88	4.40 'LT	1071.23	474,711.36	793,528.82	---
305	1035+12.01	6.38 'RT	1072.08	474,703.16	793,519.70	---
306	1035+18.19	17.27 'RT	1072.78	474,690.83	793,521.87	---
307	1035+24.53	6.19 'RT	---	474,699.16	793,531.55	R = 12.5'
308	1035+24.53	6.49 'RT	---	474,698.87	793,531.45	R = 12.5'
309	1035+24.66	4.31 'LT	1071.22	474,709.01	793,535.19	---
310	1035+74.64	19.01 'RT	1072.66	474,670.13	793,574.23	---
311	1025+49.13	5754.65 'RT	---	469,283.70	791,603.21	R = 5761'
312	1035+74.58	6.27 'LT	1071.19	474,693.89	793,582.85	---
313	1035+24.52	16.99 'RT	1072.75	474,688.98	793,527.92	---
314	1036+14.55	6.26 'LT	1071.00	474,680.01	793,620.39	---

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET 99	E

2

2

SIGN

WB USH 12/14 (BELTLINE)

MATCHLINE STA. 1041+00

400

1042+00

1043+00

1044+00

1045+00

1046+00

1047+00

MATCHLINE STA. 1047+00

S42

MGS GUARDRAIL 3 REQ'D

12'

12'

4'

10'

EB USH 12/14 (BELTLINE)

LEGEND

TRAFFIC FLOW		CONC-8	CONCRETE PAVEMENT HES 8-INCH
CURB RAMP, TYPE X	ASPH	CS-5	CONCRETE SIDEWALK 5-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CS-7	CONCRETE SIDEWALK 7-INCH
PROPOSED INLET	CD-7	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED STORM SEWER MANHOLE	CG-24D	N-WAL	NOISE WALL
PROPOSED APRON ENDWALL	CG-30A	R-WAL	RETAINING WALL
SLOPE INTERCEPT	CG-30D	NJ32	CONCRETE BARRIER TYPE NJ32
SAWING ASPHALT	CG-30J4	S42	CONCRETE BARRIER TYPE S42
SAWING CONCRETE	CG-36D4	S42A	CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

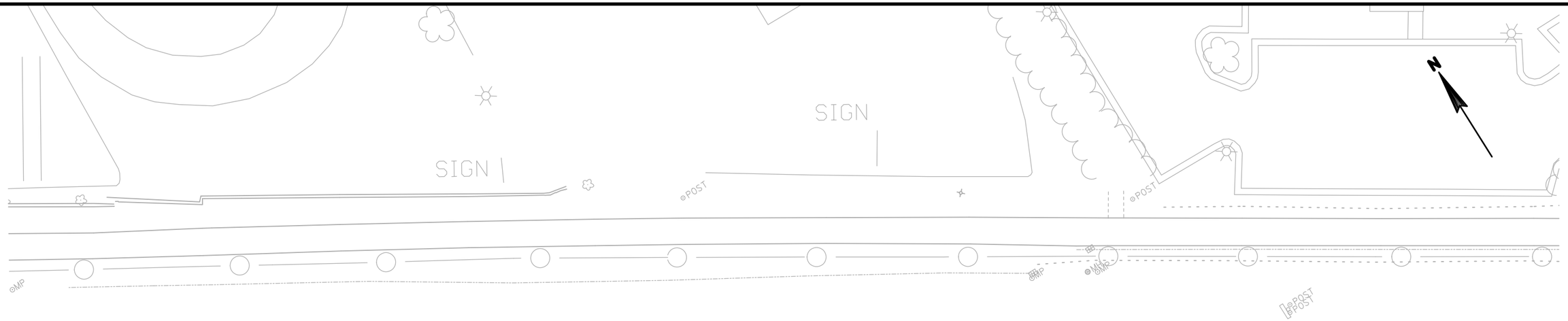
PLAN DETAILS

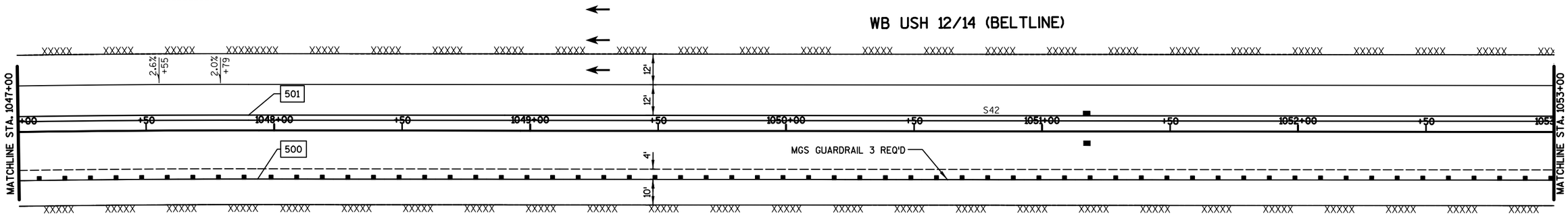
POINT NO.	MAINLINE STATION	MAINLINE OFFSET	ELEV.	Y	X	REMARKS
400	1042+02.26	6.14 'LT	1063.59	474,446.25	794,160.02	---

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET 100	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021206_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2





LEGEND

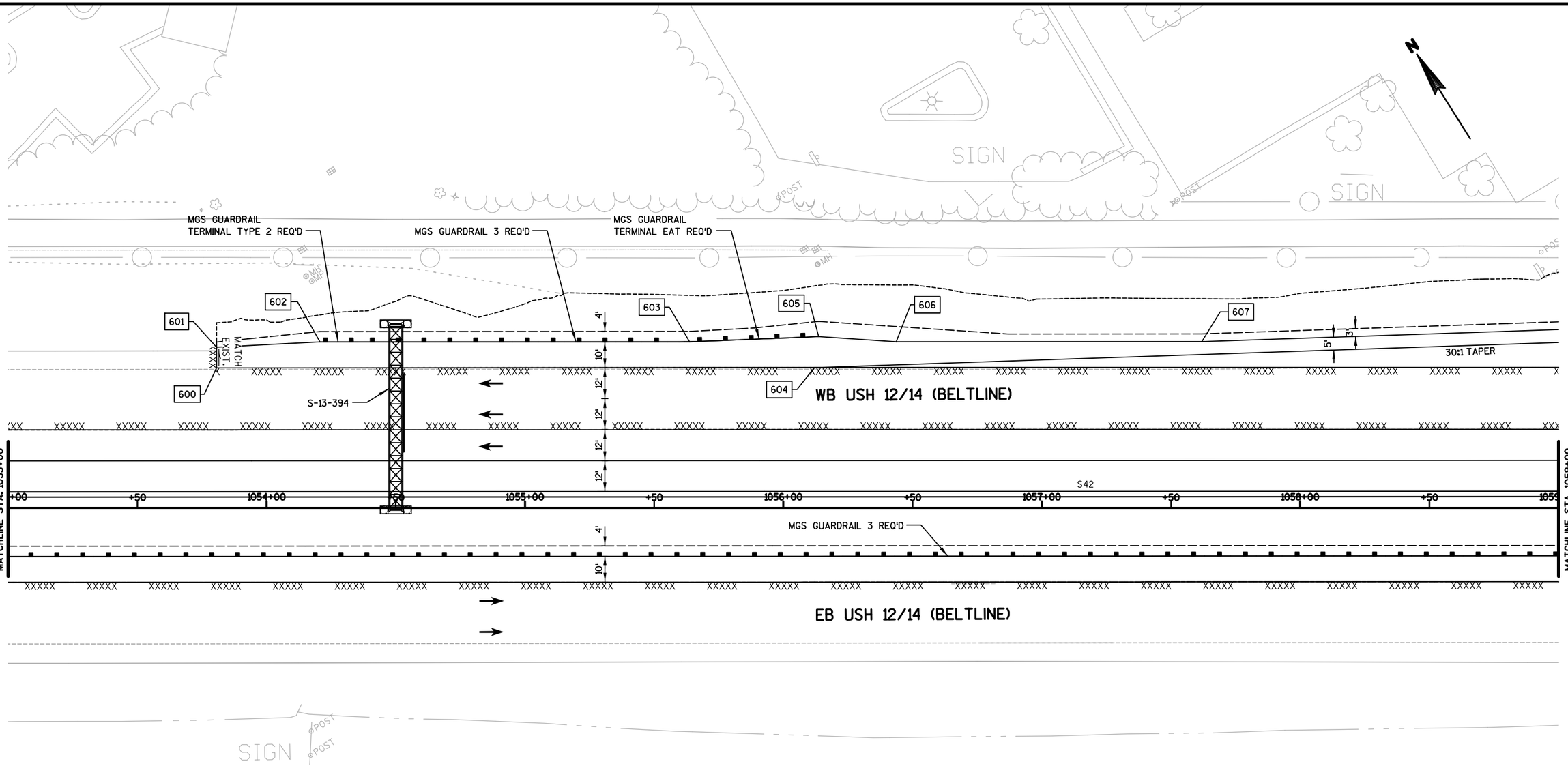
TRAFFIC FLOW	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8 CONCRETE PAVEMENT HES 8-INCH
CURB RAMP, TYPE X	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5 CONCRETE SIDEWALK 5-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7 CONCRETE SIDEWALK 7-INCH
PROPOSED INLET	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED STORM SEWER MANHOLE	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL NOISE WALL
PROPOSED APRON ENDWALL	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL RETAINING WALL
SLOPE INTERCEPT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32 CONCRETE BARRIER TYPE NJ32
SAWING ASPHALT	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42 CONCRETE BARRIER TYPE S42
SAWING CONCRETE			S42A CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

PLAN DETAILS

POINT NO.	MAINLINE STATION	MAINLINE OFFSET	ELEV.	Y	X	REMARKS
500	1047+93.53	19.04 'RT	1056.40	474,135.62	794,662.67	---
501	1047+89.98	5.98 'LT	1054.86	474,158.69	794,673.00	---

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021207_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



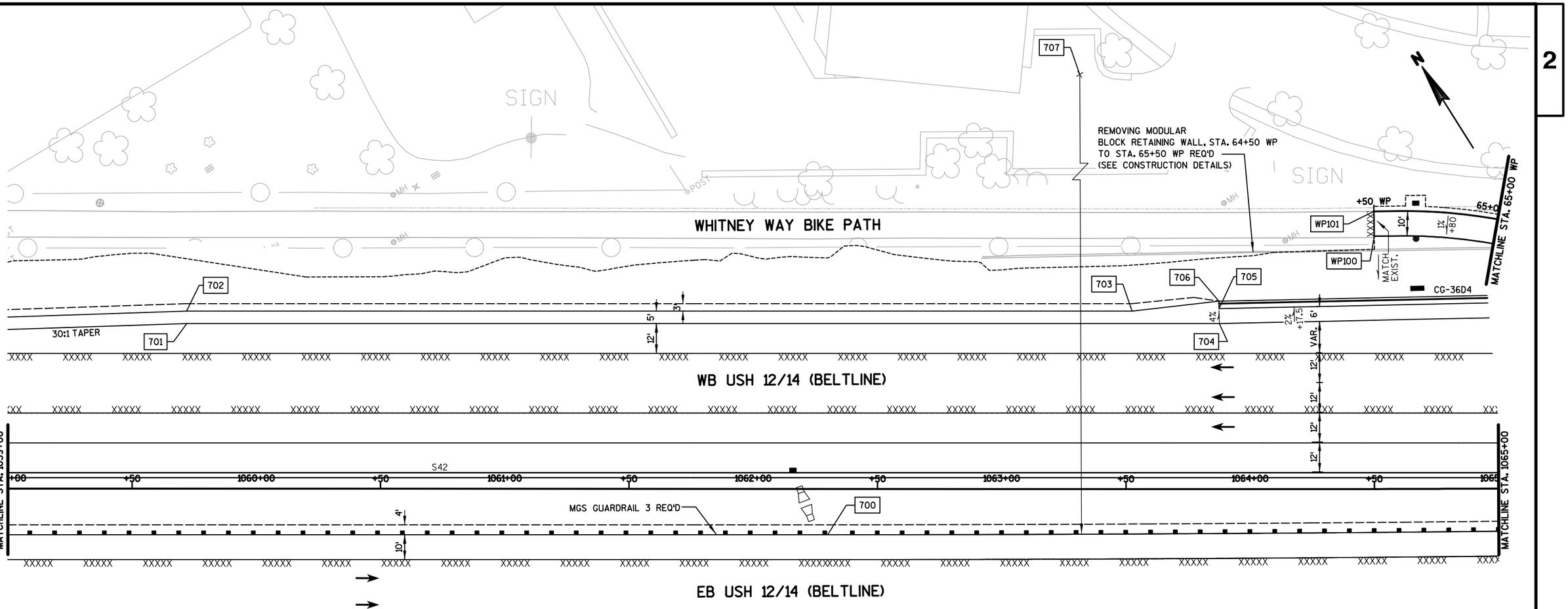
LEGEND

→	TRAFFIC FLOW	CONC-8	CONCRETE PAVEMENT HES 8-INCH
	CURB RAMP, TYPE X	CS-5	CONCRETE SIDEWALK 5-INCH
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	CS-7	CONCRETE SIDEWALK 7-INCH
	PROPOSED INLET	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
	PROPOSED STORM SEWER MANHOLE	N-WAL	NOISE WALL
	PROPOSED APRON ENDWALL	R-WAL	RETAINING WALL
----	SLOPE INTERCEPT	NJ32	CONCRETE BARRIER TYPE NJ32
XXXXX	SAWING ASPHALT	S42	CONCRETE BARRIER TYPE S42
//////	SAWING CONCRETE	S42A	CONCRETE BARRIER TYPE S42A

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		BASE PATCHING ASPHALTIC
BN	CONCRETE MEDIAN BLUNT NOSE		
CD-7	CONCRETE DRIVEWAY HES 7-INCH		
CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D		
CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A		
CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D		
CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J		
CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D		

PLAN DETAILS

POINT NO.	MAINLINE STATION	MAINLINE OFFSET	ELEV.	Y	X	REMARKS
600	1053+80.63	54.20 'LT	---	473,884.57	795,198.41	MATCH EXIST.
601	1053+80.63	62.20 'LT	1043.12	473,891.33	795,202.67	---
602	1054+20.63	64.22 'LT	1042.01	473,871.71	795,237.59	---
603	1055+63.68	64.27 'LT	1037.96	473,795.48	795,358.64	---
604	1056+11.98	54.29 'LT	---	473,761.29	795,394.18	MATCH EXIST.
605	1056+13.64	66.29 'LT	1036.42	473,770.55	795,401.98	---
606	1056+43.64	64.30 'LT	1035.61	473,752.88	795,426.30	---
607	1057+61.89	64.35 'LT	1032.12	473,689.87	795,526.37	---



LEGEND

→	TRAFFIC FLOW	CONC-8	CONCRETE PAVEMENT HES 8-INCH
	CURB RAMP, TYPE X	CS-5	CONCRETE SIDEWALK 5-INCH
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	CS-7	CONCRETE SIDEWALK 7-INCH
	PROPOSED INLET	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
	PROPOSED STORM SEWER MANHOLE	N-WAL	NOISE WALL
	PROPOSED APRON ENDWALL	R-WAL	RETAINING WALL
----	SLOPE INTERCEPT	NJ32	CONCRETE BARRIER TYPE NJ32
XXXXX	SAWING ASPHALT	S42	CONCRETE BARRIER TYPE S42
//////	SAWING CONCRETE	S42A	CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	
BN	CONCRETE MEDIAN BLUNT NOSE	
CD-7	CONCRETE DRIVEWAY HES 7-INCH	
CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	
CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	
CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	
CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	
CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	

PLAN DETAILS

POINT NO.	MAINLINE STATION	MAINLINE OFFSET	ELEV.	Y	X	REMARKS
700	1062+29.92	18.44 'RT	1017.97	473,370.29	795,878.18	---
701	1059+71.97	66.43 'LT	1025.86	473,579.62	795,705.21	---
702	1059+71.89	71.43 'LT	1025.66	473,583.89	795,707.80	---
703	1063+52.47	71.57 'LT	1014.36	473,381.10	796,029.85	---
704	1063+87.58	66.59 'LT	1013.47	473,358.15	796,056.90	---
705	1063+87.45	72.58 'LT	1013.24	473,363.30	796,059.99	---
706	1063+87.39	75.58 'LT	1013.12	473,365.87	796,061.53	---
707	1062+18.78	26421.56 'LT	---	495,744.53	809,966.01	R = 26440'

POINT NO.	WHITNEY PATH (WP) STATION	WHITNEY PATH (WP) OFFSET	ELEV.	Y	X	REMARKS
WP100	64+50.00	10.00 'RT	---	473,354.67	796,128.37	MATCH EXIST.
WP101	64+50.00	0.00 'RT	---	473,363.21	796,133.57	MATCH EXIST.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET 103	E

2

MEDICAL CIRCLE

WHITNEY WAY BIKE PATH

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

L RAMP

LIMITS OF MILL AND OVERLAY

MGS GUARDRAIL 3 REQ'D

MGS GUARDRAIL TERMINAL TYPE 2 REQ'D

CG-36D4

RIPRAP

BERM

RIPRAP

SIGN

LEGEND

→	TRAFFIC FLOW	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8	CONCRETE PAVEMENT HES 8-INCH
	CURB RAMP, TYPE X	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5	CONCRETE SIDEWALK 5-INCH
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7	CONCRETE SIDEWALK 7-INCH
	PROPOSED INLET	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
	PROPOSED STORM SEWER MANHOLE	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL	NOISE WALL
	PROPOSED APRON ENDWALL	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL	RETAINING WALL
----	SLOPE INTERCEPT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32	CONCRETE BARRIER TYPE NJ32
XXXXX	SAWING ASPHALT	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42	CONCRETE BARRIER TYPE S42
	SAWING CONCRETE			S42A	CONCRETE BARRIER TYPE S42A
					BASE PATCHING ASPHALTIC

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET 104	E

PLAN DETAILS

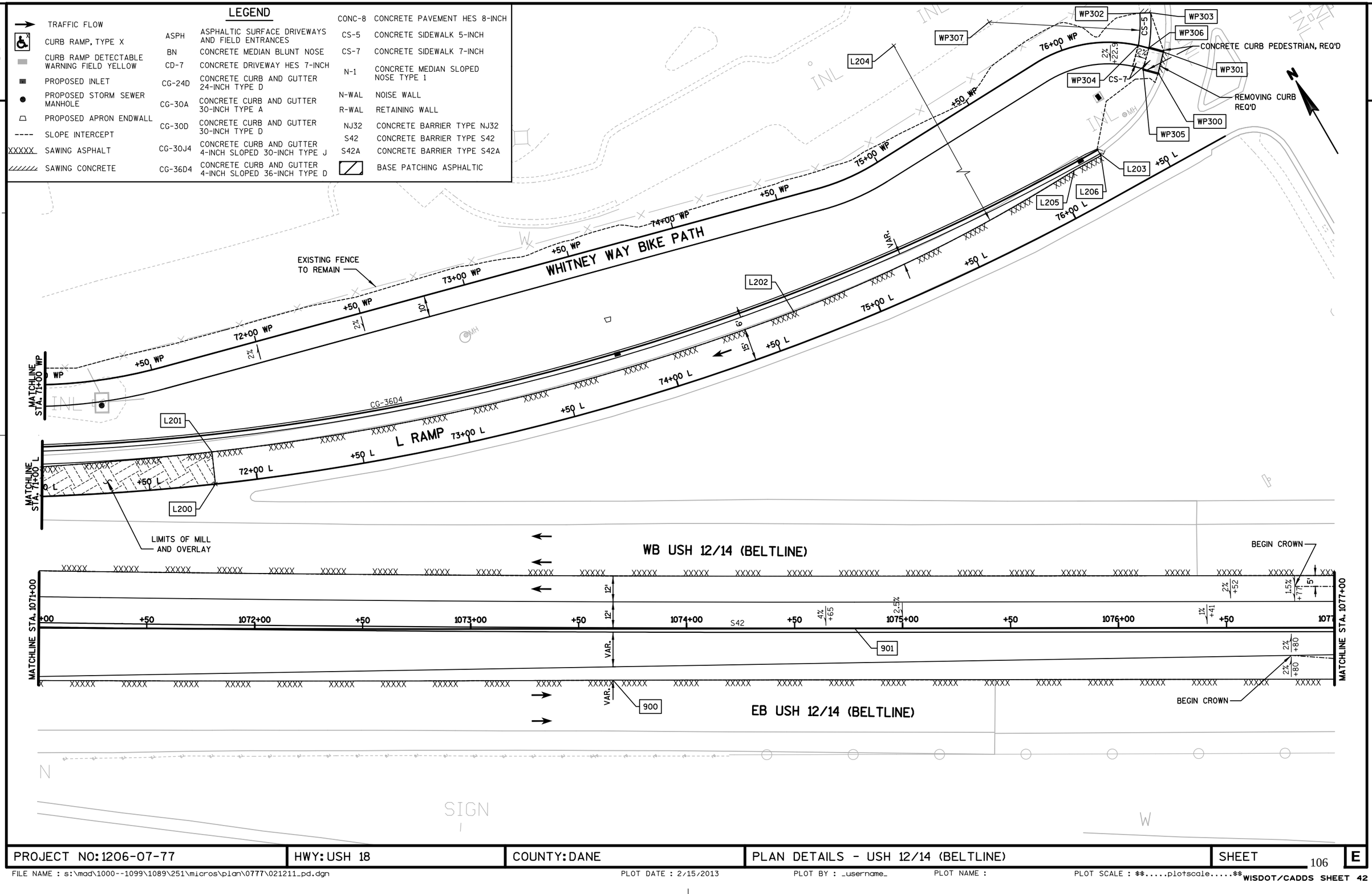
POINT NO.	MAINLINE		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
800	1065+57.75	6.11 'LT	1009.00	473,216.74	796,168.86	---
801	1065+75.21	54.00 'LT	---	473,248.25	796,208.92	MATCH EXIST.
802	1065+75.29	66.27 'LT	---	473,258.64	796,215.46	MATCH EXIST.
803	1070+20.40	24.66 'RT	---	472,950.34	796,548.58	MATCH EXIST.
804	1070+21.32	14.66 'RT	1005.82	472,958.47	796,554.48	---
805	1066+25.67	16.41 'RT	1007.76	473,161.85	796,214.79	---
806	1070+17.75	2.97 'LT	1005.66	472,975.46	796,560.40	---
807	1074+79.96	23724.21 'LT	---	493,292.12	808,810.36	R = 23724'
808	1069+49.33	1.46 'LT	1005.28	473,009.15	796,500.84	TOE OF CONCRETE BARRIER
809	1070+21.43	0.95 'LT	1005.51	472,971.84	796,562.54	---

POINT NO.	L RAMP (L)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
L100	66+88.63	21.00 'LT	1006.96	473,208.89	796,317.13	---
L101	68+45.26	12.31 'LT	---	473,121.92	796,447.69	MATCH EXIST.
L102	70+52.60	21.00 'LT	1005.18	473,024.18	796,630.75	---

POINT NO.	WHITNEY PATH (WP)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
WP200	65+15.07	0.00 'RT	1013.21	473,323.81	796,185.15	BOS
WP201	65+25.51	11.21 'LT	1012.60	473,325.71	796,200.27	---
WP202	65+15.36	10.00 'LT	---	473,331.18	796,191.90	R = 10'
WP203	65+24.51	19.80 'LT	---	473,332.94	796,205.00	MATCH EXIST.
WP204	65+34.87	20.92 'LT	---	473,327.54	796,213.42	MATCH EXIST.
WP205	65+46.10	10.00 'LT	---	473,312.22	796,215.34	R = 10'
WP206	65+35.98	9.20 'LT	1012.26	473,317.69	796,206.97	---
WP207	65+46.10	0.00 'RT	1011.99	473,304.28	796,209.26	BOS

LEGEND

TRAFFIC FLOW			
CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8 CONCRETE PAVEMENT HES 8-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5 CONCRETE SIDEWALK 5-INCH
PROPOSED INLET	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7 CONCRETE SIDEWALK 7-INCH
PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL NOISE WALL
SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL RETAINING WALL
SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32 CONCRETE BARRIER TYPE NJ32
SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42 CONCRETE BARRIER TYPE S42
			S42A CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021211_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

PLAN DETAILS

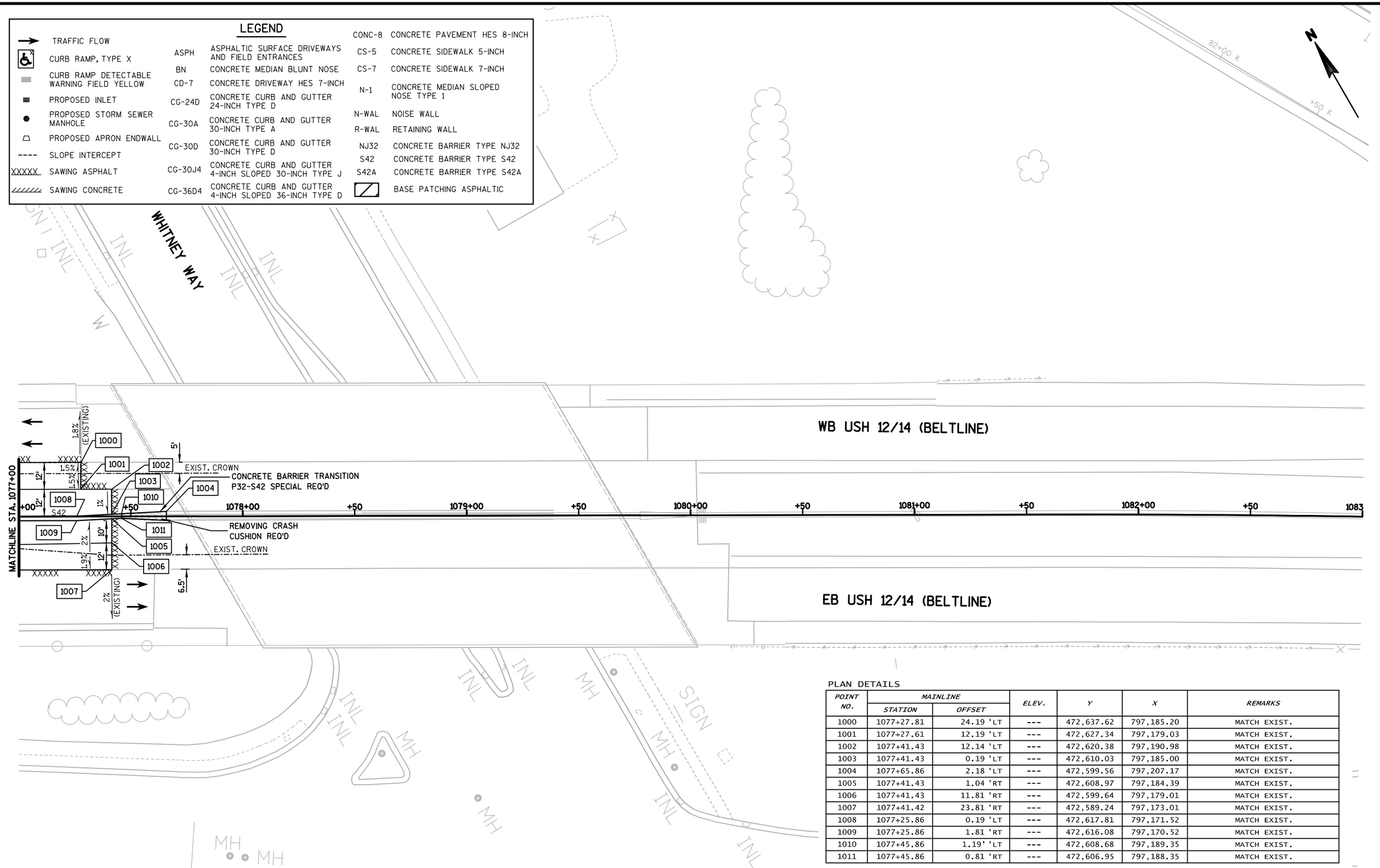
POINT NO.	MAINLINE		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
900	1073+65.89	23.78 'RT	---	472,776.88	796,847.72	MATCH EXIST.
901	1074+77.69	0.21 'LT	1010.60	472,741.81	796,956.55	---

POINT NO.	L RAMP (L)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
L200	71+80.52	0.00 'RT	---	472,947.71	796,733.83	MATCH EXIST.;EDGE OF MILL AND OVERLAY
L201	71+80.52	15.00 'LT	---	472,961.43	796,739.90	MATCH EXIST.
L202	74+62.20	15.00 'LT	---	472,882.75	797,005.57	MATCH EXIST.
L203	76+24.29	21.02 'LT	---	472,874.99	797,164.91	MATCH EXIST.
L204	74+58.22	745.00 'LT	---	473,603.64	797,120.54	R = 730'
L205	76+09.90	20.00 'LT	---	472,874.26	797,150.65	MATCH EXIST.
L206	76+24.30	20.02 'LT	---	472,873.99	797,164.90	MATCH EXIST.

POINT NO.	WHITNEY PATH (WP)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
WP300	76+47.91	10.00 'RT	---	472,893.82	797,207.02	MATCH EXIST.
WP301	76+47.91	0.00 'RT	---	472,901.00	797,213.98	MATCH EXIST.
WP302	76+33.87	14.82 'LT	---	472,922.06	797,213.59	MATCH EXIST.
WP303	76+37.51	16.02 'LT	---	472,919.67	797,217.99	MATCH EXIST.
WP304	76+35.91	0.00 'RT	996.13	472,909.46	797,205.48	BOS
WP305	76+40.87	10.00 'RT	---	472,898.92	797,201.93	END OF CONCRETE CURB PEDESTRIAN
WP306	76+40.87	0.00 'RT	---	472,905.98	797,209.01	END OF CONCRETE CURB PEDESTRIAN
WP307	75+78.18	27.54 'LT	---	472,953.43	797,151.01	R = 70'

LEGEND

→	TRAFFIC FLOW	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
	CURB RAMP, TYPE X	BN	CONCRETE MEDIAN BLUNT NOSE
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	CD-7	CONCRETE DRIVEWAY HES 7-INCH
	PROPOSED INLET	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
	PROPOSED STORM SEWER MANHOLE	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A
	PROPOSED APRON ENDWALL	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
----	SLOPE INTERCEPT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J
XXXXX	SAWING ASPHALT	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
//////	SAWING CONCRETE	CONC-8	CONCRETE PAVEMENT HES 8-INCH
		CS-5	CONCRETE SIDEWALK 5-INCH
		CS-7	CONCRETE SIDEWALK 7-INCH
		N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
		N-WAL	NOISE WALL
		R-WAL	RETAINING WALL
		NJ32	CONCRETE BARRIER TYPE NJ32
		S42	CONCRETE BARRIER TYPE S42
		S42A	CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC



PLAN DETAILS

POINT NO.	MAINLINE STATION	MAINLINE OFFSET	ELEV.	Y	X	REMARKS
1000	1077+27.81	24.19 'LT	---	472,637.62	797,185.20	MATCH EXIST.
1001	1077+27.61	12.19 'LT	---	472,627.34	797,179.03	MATCH EXIST.
1002	1077+41.43	12.14 'LT	---	472,620.38	797,190.98	MATCH EXIST.
1003	1077+41.43	0.19 'LT	---	472,610.03	797,185.00	MATCH EXIST.
1004	1077+65.86	2.18 'LT	---	472,599.56	797,207.17	MATCH EXIST.
1005	1077+41.43	1.04 'RT	---	472,608.97	797,184.39	MATCH EXIST.
1006	1077+41.43	11.81 'RT	---	472,599.64	797,179.01	MATCH EXIST.
1007	1077+41.42	23.81 'RT	---	472,589.24	797,173.01	MATCH EXIST.
1008	1077+25.86	0.19 'LT	---	472,617.81	797,171.52	MATCH EXIST.
1009	1077+25.86	1.81 'RT	---	472,616.08	797,170.52	MATCH EXIST.
1010	1077+45.86	1.19' 'LT	---	472,608.68	797,189.35	MATCH EXIST.
1011	1077+45.86	0.81 'RT	---	472,606.95	797,188.35	MATCH EXIST.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET 108 E

2

LEGEND

→	TRAFFIC FLOW		
♿	CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
▬	CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE
▬	PROPOSED INLET	CD-7	CONCRETE DRIVEWAY HES 7-INCH
●	PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
⏢	PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A
----	SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
XXXXX	SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J
//////	SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D

CONC-8	CONCRETE PAVEMENT HES 8-INCH		
CS-5	CONCRETE SIDEWALK 5-INCH		
CS-7	CONCRETE SIDEWALK 7-INCH		
N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1		
N-WAL	NOISE WALL		
R-WAL	RETAINING WALL		
NJ32	CONCRETE BARRIER TYPE NJ32		
S42	CONCRETE BARRIER TYPE S42		
S42A	CONCRETE BARRIER TYPE S42A		
▨	BASE PATCHING ASPHALTIC		

N

20'±

CHAIN LINK FENCE
6-FT

STORM SEWER CROSSING-STAGE 5
FINAL WALL LOCATION
CONCRETE BARRIER PRECAST 12.5-LF REQ'D
(STA. 1121+01 - STA. 1125+50)

+66 ±

ANTICIPATED LIMITS OF BIKE
PATH WORK TO ACCOMMODATE
STORM SEWER CONSTRUCTION

8.5'

+92 ±

BIKE PATH

CG-30D

CRASH CUSHIONS
PERMANENT REQ'D
STA. 1125+50

+23 ±

+84 ±

26'±

22'±

WB USH 12/14 (BELTLINE)

1123+00 +50 1124+00 +50 1125+00 +50 1126+00 +50 1127+00 +50 1128+00 +50 1129+00

STEEL PLATE BEAM GUARD CLASS A, REQ'D

STEEL PLATE BEAMGUARD OVER
LOW-FILL CULVERTS CLASS A, REQ'D

EB USH 12/14 (BELTLINE)

CRASH CUSHIONS PERMANENT REQ'D
STA. 1121+67

CHAIN LINK SALVAGED
6-FT

11'±

23'±

ANTICIPATED LIMITS OF
ROADWAY WORK TO ACCOMMODATE
STORM SEWER CONSTRUCTION (TYP.)

CG-30J4

CG-30J4

BIKE PATH

STORM SEWER CROSSING-STAGE 5
FINAL WALL LOCATION
CONCRETE BARRIER PRECAST 12.5-LF REQ'D
(STA. 1121+67 - STA. 1128+20)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021212a_pd.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

TRAFFIC FLOW			
CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8 CONCRETE PAVEMENT HES 8-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5 CONCRETE SIDEWALK 5-INCH
PROPOSED INLET	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7 CONCRETE SIDEWALK 7-INCH
PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL NOISE WALL
SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL RETAINING WALL
SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32 CONCRETE BARRIER TYPE NJ32
SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42 CONCRETE BARRIER TYPE S42
			S42A CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

SEMINOLE HIGHWAY

WARWICK WAY

WEST BELTLINE FRONTAGE ROAD

EB USH 12/14/18/151 (BELTLINE)

WB USH 12/14/18/151 (BELTLINE)

WB USH 12/14/18/151 OFF RAMP

BIKE LANE

R-13-236

R-13-235

B-13-664

REMOVING ASPHALTIC SURFACE MILLING 1.75-INCHES & 1.75-INCHES HMA PAVEMENT TYPE E-10 (TYP.) (SEE CONSTRUCTION STAGING SHEETS)

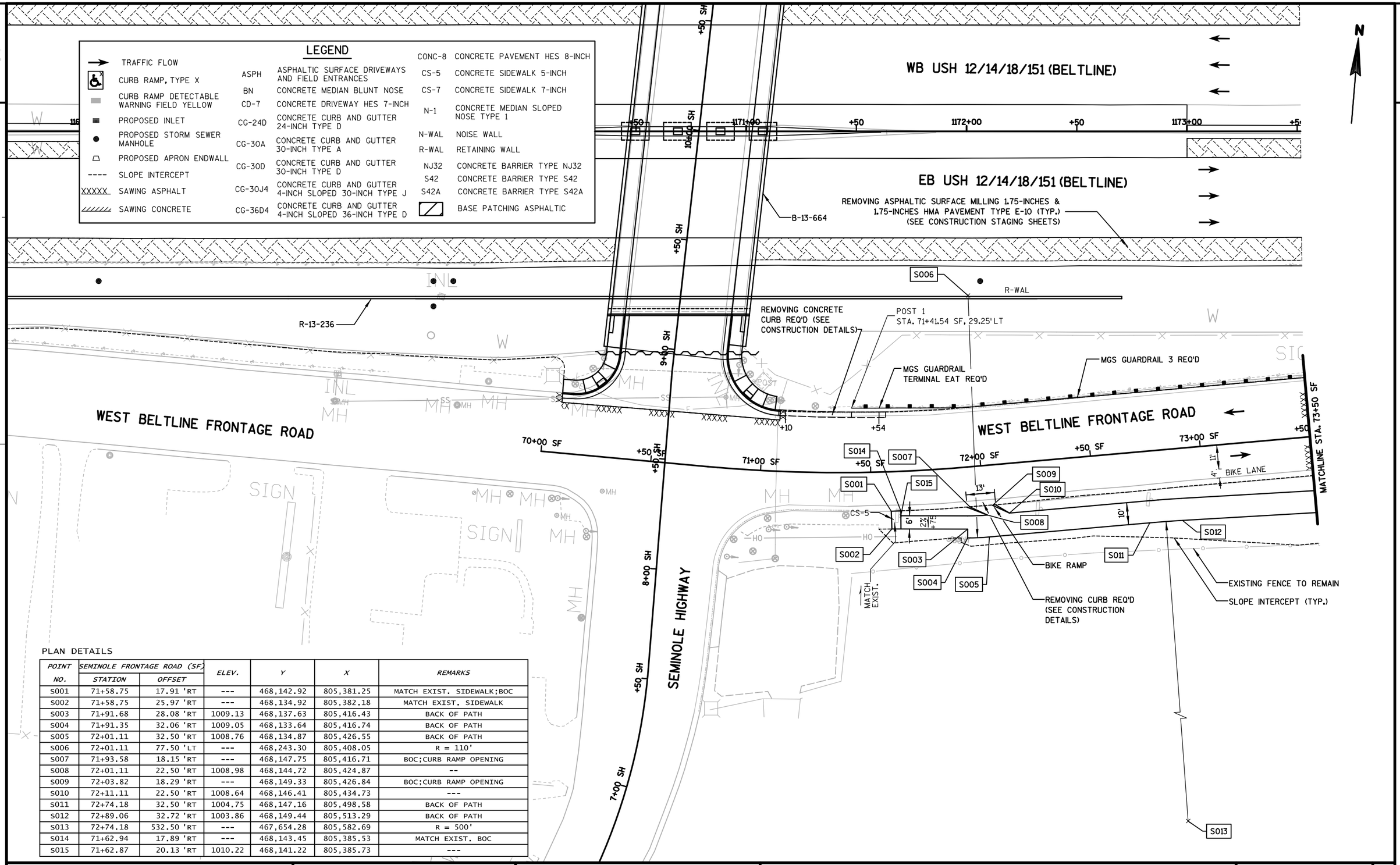
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - SEMINOLE HIGHWAY (SH LINE)	SHEET 110	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021213_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

PLAN DETAILS

POINT NO.	SEMINOLE HIGHWAY (SH)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
SH100	8+73.99	48.71 'LT	---	468,182.13	805,228.26	MATCH EXIST. C & G
SH101	8+71.99	48.70 'LT	---	468,180.13	805,228.27	MATCH EXIST.
SH102	8+71.86	50.58 'RT	---	468,180.11	805,327.54	MATCH EXIST.
SH103	8+73.92	50.48 'RT	---	468,182.16	805,327.44	MATCH EXIST. C & G
SH104	8+81.72	30.37 'RT	1012.06	468,189.95	805,307.33	RADIUS MID POINT
SH105	9+02.46	49.00 'RT	---	468,209.14	805,326.32	R = 27'
SH106	9+02.46	22.00 'RT	1012.78	468,209.97	805,299.33	---
SH107	8+97.87	22.39 'RT	1012.63	468,205.37	805,299.58	BEGIN APPROACH SLAB
SH108	9+18.59	22.00 'RT	1013.15	468,226.10	805,299.82	END APPROACH SLAB
SH109	9+19.54	30.50 'RT	1013.94	468,226.79	805,308.35	BOS
SH110	8+82.42	48.35 'RT	1011.92	468,190.67	805,325.30	BOS
SH111	9+13.66	22.00 'LT	1013.04	468,222.52	805,255.69	END APPROACH SLAB
SH112	9+12.71	30.50 'LT	1013.78	468,221.83	805,247.17	BOS
SH113	8+97.87	22.00 'LT	1012.68	468,206.74	805,255.21	BEGIN APPROACH SLAB
SH114	11+23.08	37.20 'LT	---	468,432.31	805,246.95	BOC;CURB RAMP OPENING
SH115	8+94.61	22.00 'LT	1012.61	468,203.48	805,255.11	---
SH116	8+94.61	44.00 'LT	---	468,204.16	805,233.12	R = 22'
SH117	8+80.25	28.47 'LT	1012.15	468,188.41	805,248.48	RADIUS MID POINT
SH118	8+74.01	43.71 'LT	1011.68	468,182.16	805,233.26	---
SH119	8+82.49	48.75 'LT	---	468,190.63	805,228.20	BOS; MATCH EXIST.
SH120	8+80.02	32.67 'LT	---	468,188.18	805,244.29	BOC;CURB RAMP OPENING
SH121	8+83.38	28.97 'LT	---	468,191.54	805,247.99	BOC;CURB RAMP OPENING
SH122	8+82.83	32.83 'RT	---	468,191.06	805,309.79	BOC;CURB RAMP OPENING
SH123	8+80.08	36.45 'RT	---	468,188.32	805,313.40	BOC;CURB RAMP OPENING
SH124	11+30.35	49.34 'LT	---	468,439.95	805,235.04	MATCH EXIST.
SH125	11+31.28	22.00 'RT	---	468,438.68	805,306.37	MATCH EXIST.
SH126	11+06.15	22.00 'RT	1011.58	468,413.56	805,305.60	BEGIN APPROACH SLAB
SH127	11+06.15	30.50 'RT	1012.08	468,413.30	805,314.09	BOS
SH128	10+91.31	30.50 'RT	1012.81	468,398.47	805,313.64	BOS
SH129	10+90.36	22.00 'RT	1012.07	468,397.78	805,305.11	END APPROACH SLAB
SH130	10+85.43	22.00 'LT	1012.23	468,394.21	805,260.98	END APPROACH SLAB
SH131	10+84.47	30.50 'LT	1013.03	468,393.51	805,252.45	BOS
SH132	11+19.09	31.83 'LT	---	468,428.15	805,252.19	BOC;CURB RAMP OPENING
SH133	11+06.15	22.38 'LT	1011.50	468,414.93	805,261.23	BEGIN APPROACH SLAB
SH134	11+01.61	22.00 'LT	1011.72	468,410.38	805,261.48	---
SH135	11+01.61	49.00 'LT	---	468,411.22	805,234.49	R = 27'
SH136	11+20.82	30.02 'LT	1010.69	468,429.83	805,254.05	RADIUS MID POINT
SH137	11+28.61	49.32 'LT	---	468,438.21	805,235.01	MATCH EXIST. C & G
SH138	11+19.51	44.33 'LT	1010.50	468,428.96	805,239.71	BOS



PLAN DETAILS

POINT NO.	SEMINOLE FRONTAGE ROAD (SF) STATION	OFFSET	ELEV.	Y	X	REMARKS
S001	71+58.75	17.91 'RT	---	468,142.92	805,381.25	MATCH EXIST. SIDEWALK;BOC
S002	71+58.75	25.97 'RT	---	468,134.92	805,382.18	MATCH EXIST. SIDEWALK
S003	71+91.68	28.08 'RT	1009.13	468,137.63	805,416.43	BACK OF PATH
S004	71+91.35	32.06 'RT	1009.05	468,133.64	805,416.74	BACK OF PATH
S005	72+01.11	32.50 'RT	1008.76	468,134.87	805,426.55	BACK OF PATH
S006	72+01.11	77.50 'LT	---	468,243.30	805,408.05	R = 110'
S007	71+93.58	18.15 'RT	---	468,147.75	805,416.71	BOC;CURB RAMP OPENING
S008	72+01.11	22.50 'RT	1008.98	468,144.72	805,424.87	--
S009	72+03.82	18.29 'RT	---	468,149.33	805,426.84	BOC;CURB RAMP OPENING
S010	72+11.11	22.50 'RT	1008.64	468,146.41	805,434.73	---
S011	72+74.18	32.50 'RT	1004.75	468,147.16	805,498.58	BACK OF PATH
S012	72+89.06	32.72 'RT	1003.86	468,149.44	805,513.29	BACK OF PATH
S013	72+74.18	532.50 'RT	---	467,654.28	805,582.69	R = 500'
S014	71+62.94	17.89 'RT	---	468,143.45	805,385.53	MATCH EXIST. BOC
S015	71+62.87	20.13 'RT	1010.22	468,141.22	805,385.73	---

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14/18/151 (BELTLINE) AND SF & S LINES	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021214_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

→	TRAFFIC FLOW			CONC-8	CONCRETE PAVEMENT HES 8-INCH
♿	CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CS-5	CONCRETE SIDEWALK 5-INCH
▭	CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE	CS-7	CONCRETE SIDEWALK 7-INCH
▬	PROPOSED INLET	CD-7	CONCRETE DRIVEWAY HES 7-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
●	PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-WAL	NOISE WALL
⏢	PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	R-WAL	RETAINING WALL
----	SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	NJ32	CONCRETE BARRIER TYPE NJ32
XXXXX	SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	S42	CONCRETE BARRIER TYPE S42
//////	SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42A	CONCRETE BARRIER TYPE S42A
				▨	BASE PATCHING ASPHALTIC

N

RIPRAP

INL

SIGN

12'

REMOVING ASPHALTIC SURFACE MILLING 1.75-INCHES & 1.75-INCHES HMA PAVEMENT TYPE E-10 (TYP.) (SEE CONSTRUCTION STAGING SHEETS)

WB USH 12/14/18/151 (BELTLINE)

12' 12' 12'

INL

W 1174+00 +50 1175+00 +50 1176+00 +50 1177+00 +50 1178+00 +50 1179+00

MATCHLINE STA. 1179+50

12' 12' 12' 12' 12' 8'

EB USH 12/14/18/151 (BELTLINE)

2502 2503 2500 2501

MGS GUARDRAIL TERMINAL EAT REQ'D

POST 1
STA. 1177+46.42 S, 30.29'LT

S42

MGS GUARDRAIL 3 REQ'D

CS-5

CG-30D

+34 CG-30D (DRIVEWAY) +77

WEST BELTLINE FRONTAGE ROAD

S108 S107 S110 S112 S111 S113 S115 S114 S106 S103 S104 S102 S105 S100 S101 S116 S117 S109 S118

CG-24D CG-30D

1177+00 S +50 S 1178+00 S +50 S 1179+00 S

75+00 SF +50 SF 77+00 SF +50 SF 79+00 SF +50 SF

S RAMP

BIKE LANE

MATCHLINE STA. 73+50 SF

MATCH EXIST.

74+00 SF

EXISTING FENCE TO REMAIN

MATCHLINE STA. 79+50 SF

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14/18/151 (BELTLINE) AND SF & S LINES	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021215_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PLAN DETAILS

POINT NO.	S RAMP (S)		SEMINOLE FRONTAGE ROAD (SF)		ELEV.	Y	X	REMARKS
	STATION	OFFSET	STATION	OFFSET				
S100	---	---	73+50.00	25.00 'LT	---	468,216.59	805,563.65	MATCH EXIST.
S101	---	---	73+50.00	15.00 'RT	---	468,177.16	805,570.38	MATCH EXIST.
S102	---	---	74+55.12	1.01 'LT	994.45	468,210.63	805,671.31	---
S103	---	---	74+55.12	8.99 'LT	994.45	468,218.49	805,669.97	---
S104	---	---	74+55.46	5.00 'LT	---	468,214.61	805,670.97	R = 4'
S105	---	---	74+67.29	0.00 'RT	993.71	468,211.68	805,683.48	---
S106	---	---	74+67.29	10.00 'LT	993.71	468,221.53	805,681.79	---
S107	1176+51.29	10.01 'LT	76+49.38	15.25 'LT	984.39	468,252.48	805,863.17	---
S108	1177+10.81	10.28 'LT	77+07.44	24.31 'LT	981.98	468,260.01	805,923.09	---
S109	1177+37.66	674.61 'RT	77+94.93	653.93 'RT	---	467,577.24	805,978.39	R = 685'
S110	1179+22.39	7.92 'LT	79+23.20	37.94 'LT	974.74	468,276.89	806,131.61	---
S111	1179+21.61	0.00 'RT	79+23.56	29.99 'LT	974.77	468,269.06	806,133.03	---
S112	1179+21.61	4.00 'LT	79+22.99	33.94 'LT	---	468,272.91	806,131.93	R = 4'
S113	1177+92.97	15.00 'RT	77+92.13	7.98 'LT	979.06	468,238.57	806,006.56	---
S114	1177+92.60	22.98 'RT	77+92.51	0.00 'RT	979.07	468,230.58	806,006.52	---
S115	1177+92.97	19.00 'RT	77+92.51	4.00 'LT	---	468,234.57	806,006.73	R = 4'
S116	---	---	75+92.16	41.50 'RT	988.90	468,191.36	805,812.37	BACK OF PATH
S117	---	---	76+57.59	41.50 'RT	986.95	468,195.90	805,872.31	BACK OF PATH
S118	---	---	78+24.99	32.00 'RT	978.40	468,197.94	806,039.38	BACK OF PATH

POINT NO.	MAINLINE		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
2500	1177+20.00	49.00 'RT	---	468,310.72	805,923.63	MATCH EXIST.
2501	1177+20.00	71.00 'RT	982.74	468,288.79	805,925.40	---
2502	1176+70.00	49.00 'RT	---	468,306.68	805,873.79	MATCH EXIST.
2503	1176+70.00	59.16 'RT	---	468,296.55	805,874.61	MATCH EXIST.

LEGEND

TRAFFIC FLOW		CONC-8	CONCRETE PAVEMENT HES 8-INCH
CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CS-5 CONCRETE SIDEWALK 5-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE	CS-7 CONCRETE SIDEWALK 7-INCH
PROPOSED INLET	CD-7	CONCRETE DRIVEWAY HES 7-INCH	N-1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-WAL NOISE WALL
PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	R-WAL RETAINING WALL
SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	NJ32 CONCRETE BARRIER TYPE NJ32
SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	S42 CONCRETE BARRIER TYPE S42
SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42A CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

N

WB USH 12/14/18/151 (BELTLINE)

REMOVING ASPHALTIC SURFACE MILLING 1.75-INCHES & 1.75-INCHES HMA PAVEMENT TYPE E-10 (TYP.) (SEE CONSTRUCTION STAGING SHEETS)

EB USH 12/14/18/151 (BELTLINE)

S RAMP

WEST BELTLINE FRONTAGE ROAD

AUXILIARY LANE

50:1 TAPER

BIKE LANE

BIKE RAMP

POST 1
STA. 1181+07.31 S, 18.83' RT

MGS GUARDRAIL 3 REQ'D

MGS THRIE BEAM TRANSITION REQ'D

MGS GUARDRAIL TERMINAL EAT REQ'D

EXISTING FENCE TO REMAIN

MATCHLINE STA. 1179+50 S

MATCHLINE STA. 79+50 SF

MATCHLINE STA. 85+50 SF

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14/18/151 (BELTLINE) AND SF & S LINES	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021216_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PLAN DETAILS

POINT NO	S RAMP (S)		SEMINOLE FRONTAGE ROAD (SF)		ELEV.	Y	X	REMARKS
	STATION	OFFSET	STATION	OFFSET				
S200	1179+54.95	16.74 'LT	79+54.17	51.31 'LT	973.60	468,294.28	806,160.51	---
S201	1179+96.62	3.94 'LT	79+97.24	44.60 'LT	972.39	468,293.38	806,204.09	---
S202	1179+12.98	194.13 'RT	79+42.75	163.38 'RT	---	468,079.99	806,177.87	R = 215'
S203	1180+16.07	0.00 'RT	80+17.05	43.48 'LT	971.84	468,294.92	806,223.88	---
S204	1180+16.07	50.00 'LT	80+09.91	92.96 'LT	---	468,343.01	806,210.19	R = 50'
S205	1180+79.27	0.00 'LT	80+79.63	52.28 'LT	969.88	468,312.00	806,284.72	---
S206	1180+78.86	10.09 'LT	80+78.01	62.25 'LT	970.44	468,321.66	806,281.78	---
S207	1180+77.97	5.00 'LT	80+77.73	57.09 'LT	---	468,316.51	806,282.20	R = 5'
S208	1180+10.12	23.60 'LT	80+07.79	65.98 'LT	973.12	468,315.99	806,211.70	---
S209	1180+09.34	19.68 'LT	80+07.58	61.99 'LT	972.96	468,312.00	806,212.02	---
S210	1179+90.26	15.00 'RT	79+93.65	24.94 'LT	972.34	468,273.42	806,203.16	---
S211	1180+12.41	20.18 'RT	80+16.32	22.98 'LT	971.67	468,274.51	806,225.89	---
S212	1179+90.26	65.00 'RT	80+00.79	24.55 'RT	---	468,225.33	806,216.85	R = 50'
S213	1180+29.29	28.52 'RT	80+34.21	17.13 'LT	971.16	468,271.11	806,244.41	---
S214	1180+48.08	36.72 'RT	80+53.98	11.70 'LT	970.61	468,268.36	806,264.72	---
S215	1181+14.14	166.26 'LT	81+00.99	221.50 'LT	---	468,482.56	806,283.28	R = 200; R = 215'
S216	1180+69.75	43.49 'RT	80+75.90	7.97 'LT	970.02	468,267.59	806,286.94	---
S217	1180+68.14	51.33 'RT	80+75.43	0.00 'RT	970.03	468,259.63	806,287.54	---
S218	1180+68.71	47.36 'RT	80+75.43	4.00 'LT	---	468,263.59	806,287.01	R = 4'
S219	1180+58.98	24.72 'RT	80+63.06	25.13 'LT	970.17	468,282.88	806,271.92	---
S220	1180+89.53	31.99 'RT	80+93.30	21.65 'LT	968.99	468,283.47	806,302.36	---
S221	---	---	82+76.81	15.00 'LT	960.97	468,301.05	806,485.74	---
S222	---	---	83+75.00	11.00 'LT	---	468,305.07	806,584.14	MATCH EXIST.
S223	---	---	83+75.00	15.00 'RT	---	468,279.15	806,586.24	MATCH EXIST.
S224	1180+60.64	15.00 'RT	80+63.30	34.99 'LT	970.08	468,292.69	806,270.84	---
S225	1180+60.64	20.00 'RT	80+64.00	30.04 'LT	---	468,287.88	806,272.20	R = 5'
S226	1181+09.41	14.99 'RT	81+10.90	40.45 'LT	968.38	468,304.46	806,317.29	---
S227	1182+12.33	21.00 'RT	82+11.74	37.11 'LT	964.53	468,314.61	806,417.67	---
S228	1182+12.33	25.00 'RT	82+11.61	33.11 'LT	964.37	468,310.63	806,418.07	---
S229	1182+12.33	0.00 'RT	82+12.44	58.09 'LT	965.14	468,335.51	806,415.56	---
S230	1182+12.33	3.00 'LT	82+12.59	61.09 'LT	965.16	468,338.50	806,415.32	---
S231	1181+00.00	0.00 'LT	81+00.24	54.53 'LT	969.24	468,316.99	806,304.85	---
S232	1181+00.00	12.67 'LT	80+99.02	67.14 'LT	969.80	468,329.32	806,301.95	---
S233	1181+50.00	0.00 'LT	81+50.12	57.92 'LT	967.51	468,327.01	806,353.83	---
S234	1181+50.00	6.52 'LT	81+49.87	64.43 'LT	967.90	468,333.43	806,352.70	---
S235	1182+00.00	0.00 'LT	82+00.11	58.42 'LT	965.61	468,334.18	806,403.30	---
S236	1182+00.00	3.34 'LT	82+00.17	61.75 'LT	965.85	468,337.49	806,402.92	---
S237	1179+61.09	0.00 'RT	79+62.64	35.62 'LT	973.54	468,279.87	806,171.00	---
S238	1180+35.79	15.00 'RT	80+38.71	31.45 'LT	970.93	486,285.89	806,246.95	---
S239	---	---	80+90.00	17.50 'RT	---	468,244.23	806,304.32	BOC;CURB RAMP OPENING
S240	---	---	81+00.00	17.50 'RT	---	468,245.57	806,314.23	BOC;CURB RAMP OPENING
S241	---	---	80+82.21	22.00 'RT	969.91	468,238.73	806,297.19	---
S242	---	---	80+92.21	22.00 'RT	969.47	468,240.07	806,307.10	---
S243	---	---	81+00.00	22.00 'RT	969.13	468,241.11	806,314.83	---
S244	---	---	81+00.00	32.00 'RT	969.33	468,231.20	806,316.16	BACK OF PATH

POINT NO.	MAINLINE		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
2600	1185+12.63	83.00 'RT	953.16	468,340.81	806,716.41	---
2601	1185+12.63	73.00 'RT	953.56	468,350.78	806,715.60	---

LEGEND

→	TRAFFIC FLOW	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8	CONCRETE PAVEMENT HES 8-INCH
♿	CURB RAMP, TYPE X	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5	CONCRETE SIDEWALK 5-INCH
▒	CURB RAMP DETECTABLE WARNING FIELD YELLOW	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7	CONCRETE SIDEWALK 7-INCH
▬	PROPOSED INLET	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
●	PROPOSED STORM SEWER MANHOLE	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL	NOISE WALL
⏢	PROPOSED APRON ENDWALL	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL	RETAINING WALL
----	SLOPE INTERCEPT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32	CONCRETE BARRIER TYPE NJ32
XXXXX	SAWING ASPHALT	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42	CONCRETE BARRIER TYPE S42
//////	SAWING CONCRETE			S42A	CONCRETE BARRIER TYPE S42A
				▨	BASE PATCHING ASPHALTIC

PLAN DETAILS

POINT NO.	MAINLINE STATION	MAINLINE OFFSET	ELEV.	Y	X	REMARKS
2700	1190+12.79	83.00 'RT	933.79	468,381.19	807,214.95	---
2701	1190+12.63	73.00 'RT	934.19	468,391.14	807,213.97	---

POINT NO.	S RAMP (S) STATION	S RAMP (S) OFFSET	SEMINOLE FRONTAGE ROAD (SF) STATION	SEMINOLE FRONTAGE ROAD (SF) OFFSET	ELEV.	Y	X	REMARKS
S300	---	---	89+42.00	15.00 'LT	935.92	468,354.82	807,148.97	---
S301	---	---	89+50.00	11.00 'LT	---	468,351.48	807,157.27	MATCH EXIST.

N

SIGN

RIPRAP

WB USH 12/14/18/151 (BELTLINE)

REMOVING ASPHALTIC SURFACE MILLING 1.75-INCHES & 1.75-INCHES HMA PAVEMENT TYPE E-10 (TYP.) (SEE CONSTRUCTION STAGING SHEETS)

MATCHLINE STA. 1185+50

1186+00 +50 1187+00 +50 1188+00 +50 1189+00 +50 1190+00 +50 1191+00

MATCHLINE STA. 1191+50

12' 12' 12' 12' 12' 12' 8'

EB USH 12/14/18/151 (BELTLINE)

S-13-376

S42

2701

30:1 TAPER

2700

CG-30D

4"

ASPHALTIC FLUME, REQ'D

S300

S301

MATCHLINE STA. 85+50 SF

SF 86+00 SF +50 SF 87+00 SF +50 SF 88+00 SF +50 SF 89+00 SF +50 SF 90+00 SF +50 SF 91+00 SF +5

WEST BELTLINE FRONTAGE ROAD

POST

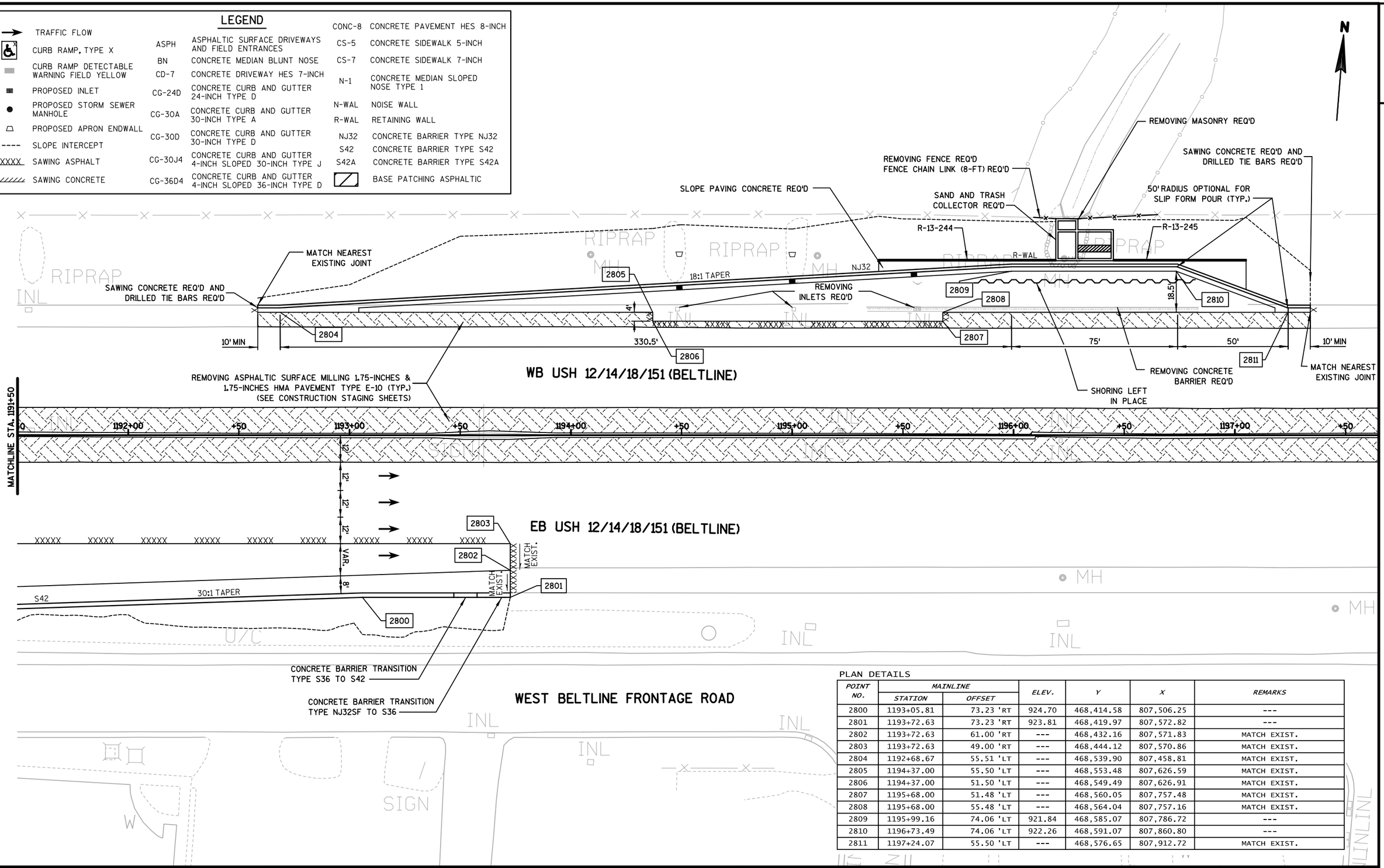
POST

EXISTING FENCE TO REMAIN

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14/18/151 (BELTLINE) AND SF & S LINES	SHEET 117	E

LEGEND

→	TRAFFIC FLOW	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8	CONCRETE PAVEMENT HES 8-INCH
	CURB RAMP, TYPE X	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5	CONCRETE SIDEWALK 5-INCH
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7	CONCRETE SIDEWALK 7-INCH
	PROPOSED INLET	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
	PROPOSED STORM SEWER MANHOLE	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL	NOISE WALL
	PROPOSED APRON ENDWALL	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL	RETAINING WALL
----	SLOPE INTERCEPT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32	CONCRETE BARRIER TYPE NJ32
XXXXX	SAWING ASPHALT	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42	CONCRETE BARRIER TYPE S42
	SAWING CONCRETE			S42A	CONCRETE BARRIER TYPE S42A
					BASE PATCHING ASPHALTIC



PLAN DETAILS

POINT NO.	MAINLINE STATION	MAINLINE OFFSET	ELEV.	Y	X	REMARKS
2800	1193+05.81	73.23 'RT	924.70	468,414.58	807,506.25	---
2801	1193+72.63	73.23 'RT	923.81	468,419.97	807,572.82	---
2802	1193+72.63	61.00 'RT	---	468,432.16	807,571.83	MATCH EXIST.
2803	1193+72.63	49.00 'RT	---	468,444.12	807,570.86	MATCH EXIST.
2804	1192+68.67	55.51 'LT	---	468,539.90	807,458.81	MATCH EXIST.
2805	1194+37.00	55.50 'LT	---	468,553.48	807,626.59	MATCH EXIST.
2806	1194+37.00	51.50 'LT	---	468,549.49	807,626.91	MATCH EXIST.
2807	1195+68.00	51.48 'LT	---	468,560.05	807,757.48	MATCH EXIST.
2808	1195+68.00	55.48 'LT	---	468,564.04	807,757.16	MATCH EXIST.
2809	1195+99.16	74.06 'LT	921.84	468,585.07	807,786.72	---
2810	1196+73.49	74.06 'LT	922.26	468,591.07	807,860.80	---
2811	1197+24.07	55.50 'LT	---	468,576.65	807,912.72	MATCH EXIST.

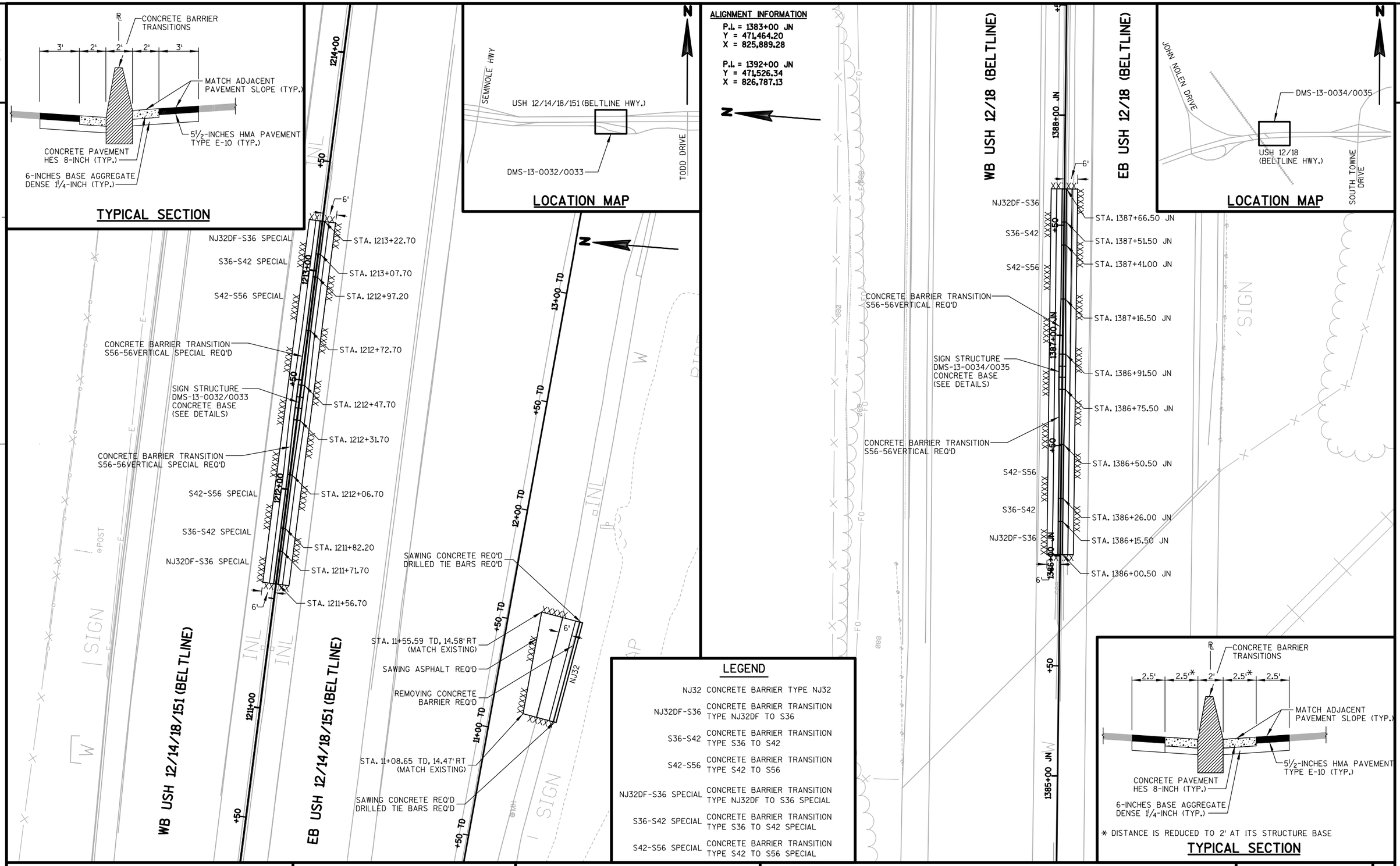
TYPICAL SECTION

LOCATION MAP

ALIGNMENT INFORMATION

P.I. = 1383+00 JN
Y = 471,464.20
X = 825,889.28

P.I. = 1392+00 JN
Y = 471,526.34
X = 826,787.13



LOCATION MAP

LEGEND

NJ32	CONCRETE BARRIER TYPE NJ32
NJ32DF-S36	CONCRETE BARRIER TRANSITION TYPE NJ32DF TO S36
S36-S42	CONCRETE BARRIER TRANSITION TYPE S36 TO S42
S42-S56	CONCRETE BARRIER TRANSITION TYPE S42 TO S56
NJ32DF-S36 SPECIAL	CONCRETE BARRIER TRANSITION TYPE NJ32DF TO S36 SPECIAL
S36-S42 SPECIAL	CONCRETE BARRIER TRANSITION TYPE S36 TO S42 SPECIAL
S42-S56 SPECIAL	CONCRETE BARRIER TRANSITION TYPE S42 TO S56 SPECIAL

* DISTANCE IS REDUCED TO 2' AT ITS STRUCTURE BASE

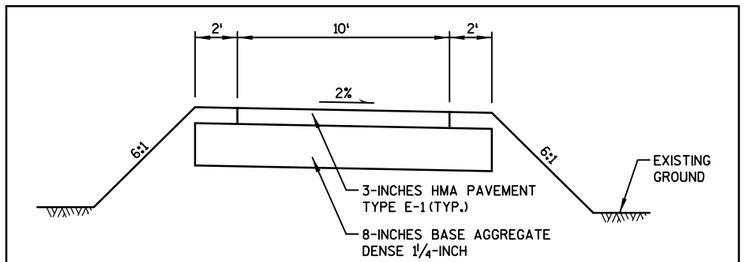
TYPICAL SECTION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 12/14/18/151 (BELTLINE)	SHEET	E

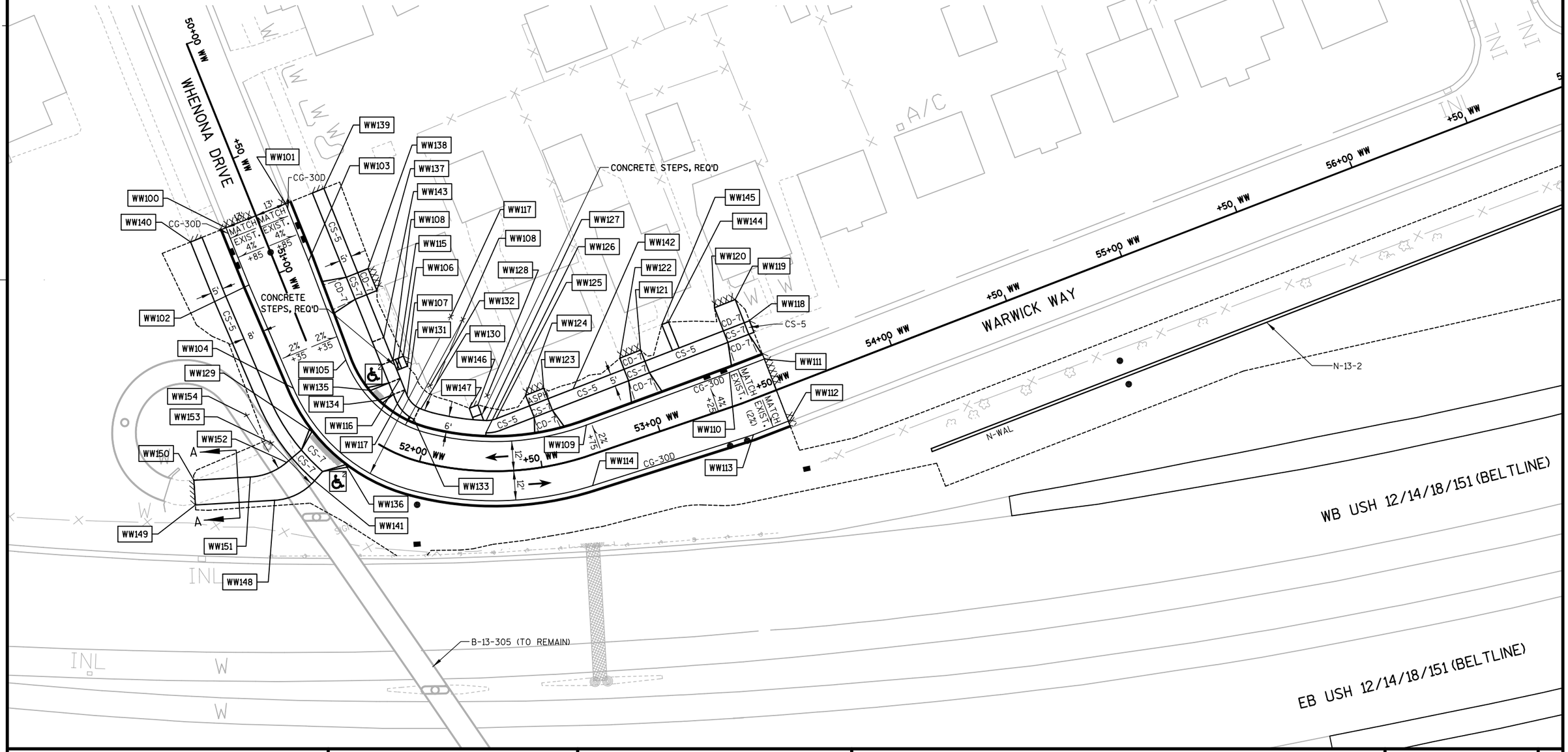
FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021219_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

→	TRAFFIC FLOW	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8	CONCRETE PAVEMENT HES 8-INCH
♿	CURB RAMP, TYPE X	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5	CONCRETE SIDEWALK 5-INCH
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7	CONCRETE SIDEWALK 7-INCH
▬	PROPOSED INLET	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
●	PROPOSED STORM SEWER MANHOLE	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL	NOISE WALL
⏢	PROPOSED APRON ENDWALL	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL	RETAINING WALL
----	SLOPE INTERCEPT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32	CONCRETE BARRIER TYPE NJ32
XXXXX	SAWING ASPHALT	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42	CONCRETE BARRIER TYPE S42
//////	SAWING CONCRETE			S42A	CONCRETE BARRIER TYPE S42A
				▨	BASE PATCHING ASPHALTIC



SECTION A-A



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - WARWICK WAY	SHEET 120	E

POINT NO.	WARWICK WAY (WW)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
WW100	50+75.00	13.00 'RT	---	468,610.76	803,935.24	MATCH EXIST. 30-INCH C&G
WW101	50+75.00	13.00 'LT	---	468,610.95	803,961.24	MATCH EXIST. 30-INCH C&G
WW102	51+00.00	13.00 'RT	1008.46	468,585.76	803,935.43	---
WW103	51+00.00	13.00 'LT	1008.46	468,585.95	803,961.43	---
WW104	51+45.25	12.00 'RT	1008.84	468,540.25	803,936.78	---
WW105	51+42.80	12.01 'LT	1008.82	468,543.14	803,960.76	---
WW106	51+57.99	33.45 'LT	---	468,536.03	803,982.98	MATCH EXIST. SIDEWALK
WW107	51+67.11	32.13 'LT	---	468,531.69	803,983.02	MATCH EXIST. SIDEWALK
WW108	51+55.94	29.06 'LT	1009.16	468,536.00	803,978.48	BOS
WW109	52+72.57	12.03 'LT	1009.00	468,482.88	804,041.70	---
WW110	53+34.33	13.49 'LT	1008.46	468,481.49	804,103.47	---
WW111	53+50.00	13.50 'LT	---	468,481.40	804,118.59	MATCH EXIST. 30-INCH C&G
WW112	53+50.00	13.50 'RT	---	468,454.40	804,118.43	MATCH EXIST. 30-INCH C&G
WW113	53+34.87	13.50 'RT	1008.73	468,454.49	804,103.30	---
WW114	52+67.34	12.00 'RT	1009.02	468,459.16	804,035.11	---
WW115	51+63.97	27.90 'LT	1009.14	468,531.63	803,978.51	BOS
WW116	51+69.94	26.59 'LT	1009.12	468,528.12	803,978.54	BOS
WW117	51+77.61	24.18 'LT	1009.22	468,523.09	803,978.57	BOS
WW118	53+50.00	30.11 'LT	---	468,498.01	804,118.69	MATCH EXIST. SIDEWALK
WW119	53+47.70	40.24 'LT	---	468,508.15	804,116.45	MATCH EXIST. DRIVEWAY
WW120	53+38.68	40.18 'LT	---	468,508.15	804,107.44	MATCH EXIST. DRIVEWAY
WW121	53+03.18	33.73 'LT	---	468,503.15	804,073.28	MATCH EXIST. DRIVEWAY
WW122	52+94.17	33.32 'LT	---	468,503.15	804,064.26	MATCH EXIST. DRIVEWAY
WW123	52+57.89	31.34 'LT	---	468,503.14	804,031.13	MATCH EXIST. DRIVEWAY
WW124	52+47.45	29.83 'LT	---	468,503.14	804,023.20	MATCH EXIST. DRIVEWAY
WW125	52+31.43	21.22 'LT	1009.68	468,498.67	804,008.62	BOS
WW126	52+26.68	15.50 'LT	1009.57	468,494.90	804,002.74	---
WW127	52+26.68	20.50 'LT	1009.67	468,499.49	804,004.72	BOS
WW128	52+26.68	30.50 'LT	---	468,508.67	804,008.68	R = 10'
WW129	51+60.82	14.50 'RT	---	468,521.13	803,937.35	BOC;CURB RAMP OPENING
WW130	51+92.57	20.50 'LT	1009.57	468,513.55	803,981.76	BOS
WW131	51+80.77	22.90 'LT	1009.30	468,520.78	803,978.59	BOS
WW132	51+92.57	30.50 'LT	---	468,520.85	803,988.59	R = 10'
WW133	51+91.16	15.52 'LT	1009.46	468,510.64	803,977.60	---
WW134	51+69.89	14.50 'LT	---	468,522.99	803,967.59	BOC;CURB RAMP OPENING
WW135	51+62.82	14.50 'LT	---	468,527.96	803,965.60	BOC;CURB RAMP OPENING
WW136	51+76.21	14.50 'RT	---	468,503.72	803,945.07	BOC;CURB RAMP OPENING
WW137	51+21.41	34.21 'LT	---	468,564.70	803,982.80	MATCH EXIST. DRIVEWAY
WW138	51+11.82	34.14 'LT	---	468,574.29	803,982.65	MATCH EXIST. DRIVEWAY
WW139	50+74.96	29.68 'LT	---	468,611.12	803,977.92	MATCH EXIST. SIDEWALK
WW140	50+75.00	28.50 'RT	---	468,610.64	803,919.74	MATCH EXIST. SIDEWALK
WW141	51+72.08	27.50 'RT	1009.35	468,502.23	803,931.01	BOS
WW142	52+72.18	27.62 'LT	1009.80	468,498.47	804,042.03	BOS
WW143	51+40.07	29.68 'LT	1009.69	468,546.00	803,978.40	BOS
WW144	53+17.56	40.84 'LT	---	468,509.58	804,087.98	MATCH EXIST. SIDEWALK
WW145	53+14.69	40.72 'LT	---	468,509.60	804,085.10	MATCH EXIST. SIDEWALK
WW146	52+22.04	26.63 'LT	---	468,506.61	804,003.86	MATCH EXIST. SIDEWALK
WW147	52+17.75	24.93 'LT	---	468,506.60	804,000.08	MATCH EXIST. SIDEWALK
WW148	51+68.07	44.33 'RT	1009.51	468,500.79	803,913.07	BOS
WW149	51+58.18	70.10 'RT	---	468,510.81	803,882.54	BOS;MATCH EXIST. SIDEWALK
WW150	51+54.11	65.05 'RT	---	468,520.31	803,885.66	MATCH EXIST. SIDEWALK
WW151	51+60.30	45.48 'RT	1009.80	468,513.18	803,907.39	EDGE OF SIDEWALK
WW152	51+63.16	30.33 'RT	1009.38	468,513.27	803,923.25	EDGE OF SIDEWALK
WW153	51+56.48	30.54 'RT	---	468,522.90	803,920.33	R = 23.27'
WW154	51+46.96	33.72 'RT	---	468,536.93	803,915.19	R = 25'

PLAN DETAILS

POINT NO.	WEST FRONTAGE ROAD (EE) STATION	OFFSET	ELEV.	Y	X	REMARKS
EE100	93+58.87	28.02 'LT	---	467,581.91	800,985.11	MATCH EXIST.
EE101	93+58.87	23.00 'LT	---	467,576.89	800,985.03	MATCH EXIST.
EE102	93+97.62	33.00 'LT	1004.74	467,586.33	801,023.92	BOS
EE103	97+77.20	27.00 'LT	999.89	467,732.59	801,329.36	FRONT OF SIDEWALK
EE104	97+81.32	25.00 'LT	999.76	467,733.91	801,333.75	FRONT OF SIDEWALK
EE105	98+22.73	24.99 'LT	999.21	467,762.32	801,364.58	FRONT OF SIDEWALK
EE106	98+22.67	32.99 'LT	999.37	467,768.27	801,359.23	BOS
EE107	98+46.74	31.38 'LT	---	467,784.72	801,384.62	MATCH EXIST.
EE108	98+47.60	26.55 'LT	---	467,781.08	801,387.97	MATCH EXIST.
EE109	93+78.72	30.57 'LT	1004.79	467,584.18	801,004.99	BOS
EE110	93+98.00	27.00 'LT	1004.62	467,580.33	801,024.22	FRONT OF SIDEWALK

SOUTHWEST COMMUTER PATH

WEST VERONA ROAD FRONTAGE ROAD

WB USH 18/151 (VERONA ROAD)

ANTICIPATED LIMITS OF ROADWAY WORK TO ACCOMMODATE STORM SEWER CONSTRUCTION

ANTICIPATED LIMITS OF ROADWAY WORK TO ACCOMMODATE STORM SEWER CONSTRUCTION

R-13-204

CG-30D

CS-5

R-WAL

LEGEND

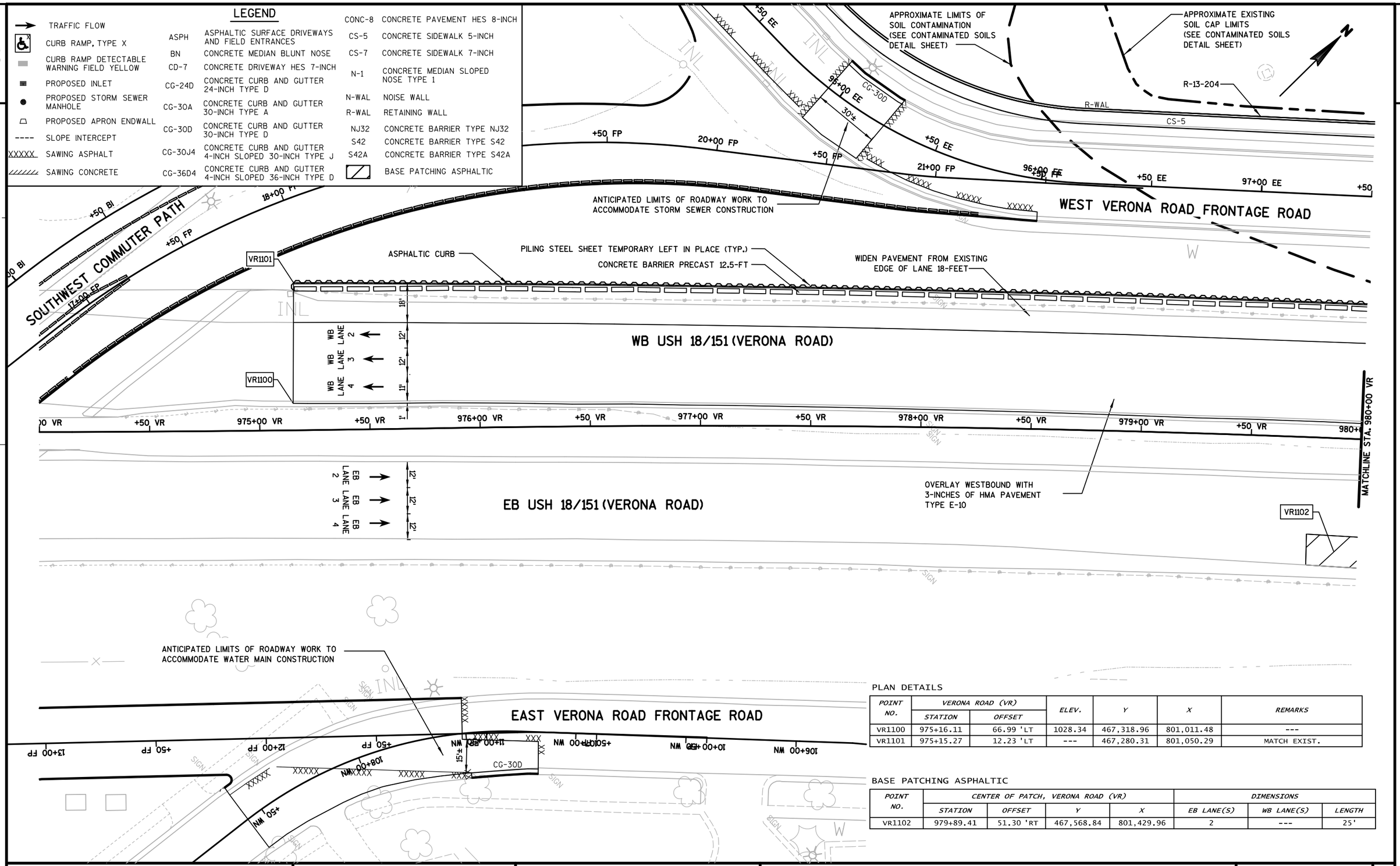
TRAFFIC FLOW		CONC-8	CONCRETE PAVEMENT HES 8-INCH
CURB RAMP, TYPE X	ASPH	CS-5	CONCRETE SIDEWALK 5-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CS-7	CONCRETE SIDEWALK 7-INCH
PROPOSED INLET	CD-7	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED STORM SEWER MANHOLE	CG-24D	N-WAL	NOISE WALL
PROPOSED APRON ENDWALL	CG-30A	R-WAL	RETAINING WALL
SLOPE INTERCEPT	CG-30D	NJ32	CONCRETE BARRIER TYPE NJ32
SAWING ASPHALT	CG-30J4	S42	CONCRETE BARRIER TYPE S42
SAWING CONCRETE	CG-36D4	S42A	CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - WEST VERONA ROAD FRONTAGE ROAD	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021221_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

LEGEND

TRAFFIC FLOW			
CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8 CONCRETE PAVEMENT HES 8-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5 CONCRETE SIDEWALK 5-INCH
PROPOSED INLET	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7 CONCRETE SIDEWALK 7-INCH
PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL NOISE WALL
SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL RETAINING WALL
SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32 CONCRETE BARRIER TYPE NJ32
SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42 CONCRETE BARRIER TYPE S42
			S42A CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC



PLAN DETAILS

POINT NO.	VERONA ROAD (VR) STATION	VERONA ROAD (VR) OFFSET	ELEV.	Y	X	REMARKS
VR1100	975+16.11	66.99 'LT	1028.34	467,318.96	801,011.48	---
VR1101	975+15.27	12.23 'LT	---	467,280.31	801,050.29	MATCH EXIST.

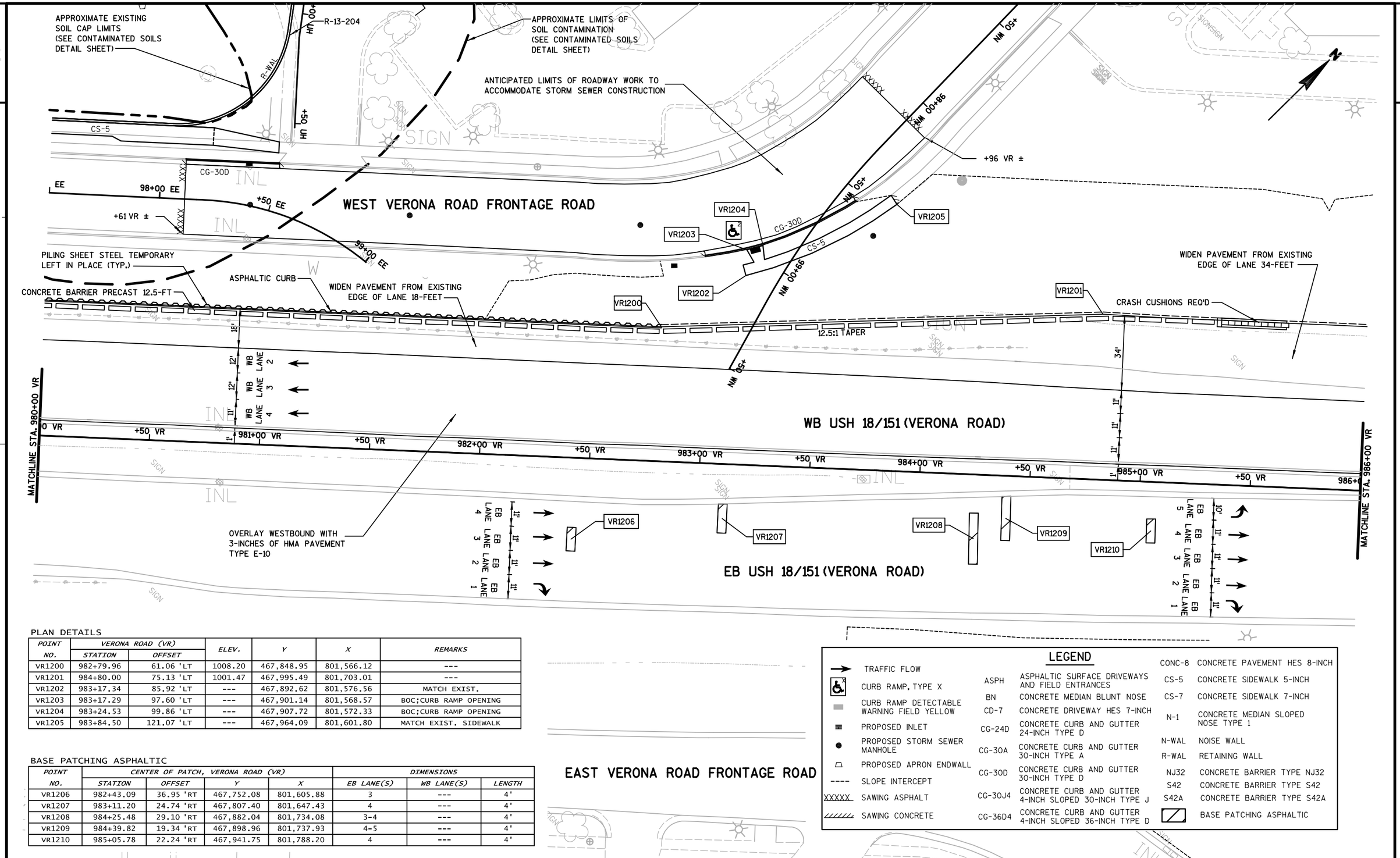
BASE PATCHING ASPHALTIC

POINT NO.	CENTER OF PATCH, VERONA ROAD (VR) STATION	OFFSET	Y	X	DIMENSIONS EB LANE(S)	WB LANE(S)	LENGTH
VR1102	979+89.41	51.30 'RT	467,568.84	801,429.96	2	---	25'

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 18/151 (VERONA ROAD)	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021222_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42



PLAN DETAILS

POINT NO.	VERONA ROAD (VR) STATION	VERONA ROAD (VR) OFFSET	ELEV.	Y	X	REMARKS
VR1200	982+79.96	61.06 'LT	1008.20	467,848.95	801,566.12	---
VR1201	984+80.00	75.13 'LT	1001.47	467,995.49	801,703.01	---
VR1202	983+17.34	85.92 'LT	---	467,892.62	801,576.56	MATCH EXIST.
VR1203	983+17.29	97.60 'LT	---	467,901.14	801,568.57	BOC;CURB RAMP OPENING
VR1204	983+24.53	99.86 'LT	---	467,907.72	801,572.33	BOC;CURB RAMP OPENING
VR1205	983+84.50	121.07 'LT	---	467,964.09	801,601.80	MATCH EXIST. SIDEWALK

BASE PATCHING ASPHALTIC

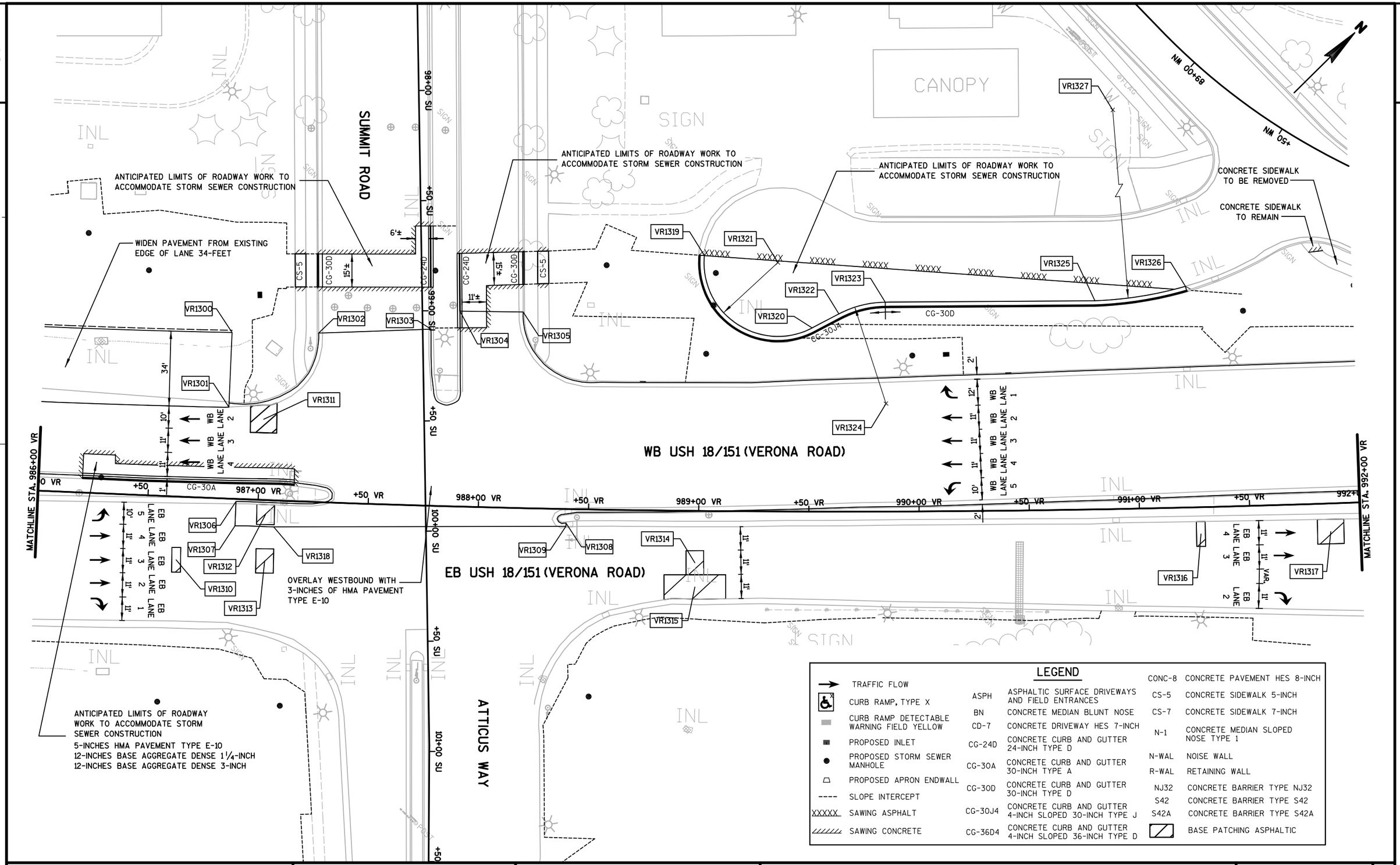
POINT NO.	CENTER OF PATCH, VERONA ROAD (VR) STATION	OFFSET	Y	X	DIMENSIONS EB LANE(S)	WB LANE(S)	LENGTH
VR1206	982+43.09	36.95 'RT	467,752.08	801,605.88	3	---	4'
VR1207	983+11.20	24.74 'RT	467,807.40	801,647.43	4	---	4'
VR1208	984+25.48	29.10 'RT	467,882.04	801,734.08	3-4	---	4'
VR1209	984+39.82	19.34 'RT	467,898.96	801,737.93	4-5	---	4'
VR1210	985+05.78	22.24 'RT	467,941.75	801,788.20	4	---	4'

LEGEND

- TRAFFIC FLOW
- CURB RAMP, TYPE X
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- XXXXX SAWING ASPHALT
- SAWING CONCRETE

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8	CONCRETE PAVEMENT HES 8-INCH
BN	CONCRETE MEDIAN BLUNT NOSE	CS-5	CONCRETE SIDEWALK 5-INCH
CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7	CONCRETE SIDEWALK 7-INCH
CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL	NOISE WALL
CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL	RETAINING WALL
CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32	CONCRETE BARRIER TYPE NJ32
CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42	CONCRETE BARRIER TYPE S42
		S42A	CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 18/151 (VERONA ROAD)	SHEET 124	E



LEGEND

TRAFFIC FLOW	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8 CONCRETE PAVEMENT HES 8-INCH
CURB RAMP, TYPE X	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5 CONCRETE SIDEWALK 5-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7 CONCRETE SIDEWALK 7-INCH
PROPOSED INLET	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED STORM SEWER MANHOLE	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL NOISE WALL
PROPOSED APRON ENDWALL	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL RETAINING WALL
SLOPE INTERCEPT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32 CONCRETE BARRIER TYPE NJ32
XXXXX SAWING ASPHALT	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42 CONCRETE BARRIER TYPE S42
SAWING CONCRETE			S42A CONCRETE BARRIER TYPE S42A
			BASE PATCHING ASPHALTIC

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 18/151 (VERONA ROAD)	SHEET 125	E

2

PLAN DETAILS

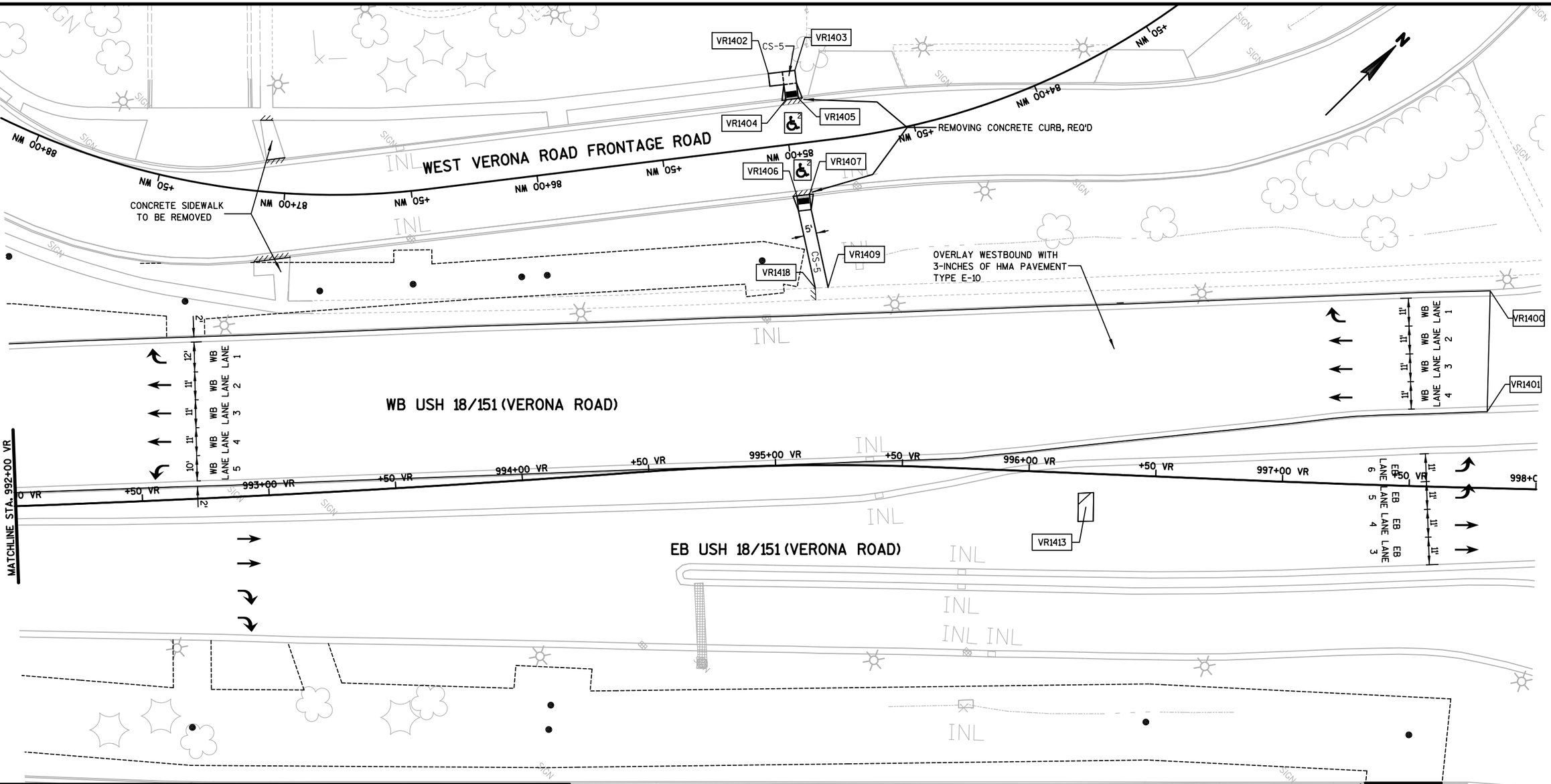
POINT NO.	VERONA ROAD (VR) STATION	VERONA ROAD (VR) OFFSET	ELEV.	Y	X	REMARKS
VR1300	986+85.00	75.41 'LT	997.92	468,135.32	801,852.93	---
VR1301	986+85.00	43.40 'LT	---	468,111.87	801,874.73	MATCH EXIST.
VR1302	987+24.67	76.68 'LT	---	468,163.05	801,880.75	MATCH EXIST.
VR1303	987+76.20	80.12 'LT	---	468,200.57	801,915.36	MATCH EXIST.
VR1304	987+89.28	88.65 'LT	---	468,215.66	801,918.79	MATCH EXIST.
VR1305	988+18.33	89.01 'LT	---	468,235.79	801,939.18	MATCH EXIST.
VR1306	986+90.00	1.18 'RT	---	468,082.64	801,908.75	MATCH EXIST.
VR1307	986+90.00	12.18 'RT	---	468,074.58	801,916.25	MATCH EXIST.
VR1308	988+39.83	6.37 'RT	---	468,182.22	802,020.93	MATCH EXIST.
VR1309	988+39.86	7.85 'RT	---	468,181.18	802,021.99	MATCH EXIST.
VR1318	987+07.53	12.00 'RT	---	468,086.69	801,928.96	MATCH EXIST.
VR1319	989+01.44	115.90 'LT	---	468,312.25	801,978.81	MATCH EXIST. C&G
VR1320	989+51.32	83.36 'LT	---	468,323.97	802,036.56	MATCH EXIST. GRADE PRIOR TO REMOVAL
VR1321	989+35.40	112.97 'LT	---	468,333.74	802,004.52	R = 33.5'
VR1322	989+63.59	89.74 'LT	---	468,337.06	802,040.55	MATCH EXIST. GRADE PRIOR TO REMOVAL
VR1323	989+84.96	94.99 'LT	---	468,355.75	802,051.61	MATCH EXIST. GRADE PRIOR TO REMOVAL
VR1324	989+85.16	48.99 'LT	---	468,323.64	802,084.55	R = 46'
VR1325	990+81.50	94.69 'LT	---	468,423.88	802,118.01	MATCH EXIST. GRADE PRIOR TO REMOVAL
VR1326	991+23.29	100.39 'LT	---	468,457.68	802,142.20	MATCH EXIST. C&G
VR1327	990+78.13	265.66 'LT	---	468,539.58	801,992.09	R = 171'

BASE PATCHING ASPHALTIC

POINT NO.	CENTER OF PATCH, VERONA ROAD (VR) STATION	OFFSET	Y	X	DIMENSIONS EB LANE(S)	WB LANE(S)	LENGTH
VR1310	986+63.97	28.72 'RT	468,044.74	801,908.45	3	---	4'
VR1311	987+01.04	36.66 'LT	468,117.83	801,891.02	---	2	12'
VR1312	987+03.62	6.53 'RT	468,088.01	801,922.38	5	---	8'
VR1313	987+04.04	27.57 'RT	468,072.92	801,937.04	3	---	8'
VR1314	988+98.49	23.54 'RT	468,211.17	802,074.92	3	---	8'
VR1315	988+98.61	34.56 'RT	468,203.43	802,082.75	2	---	28'
VR1316	991+27.64	12.18 'RT	468,383.65	802,227.12	4	---	4'
VR1317	991+86.44	12.80 'RT	468,426.31	802,267.76	4	---	12'

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021224a_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



LEGEND

→	TRAFFIC FLOW	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CONC-8	CONCRETE PAVEMENT HES 8-INCH
	CURB RAMP, TYPE X	BN	CONCRETE MEDIAN BLUNT NOSE	CS-5	CONCRETE SIDEWALK 5-INCH
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	CD-7	CONCRETE DRIVEWAY HES 7-INCH	CS-7	CONCRETE SIDEWALK 7-INCH
	PROPOSED INLET	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
	PROPOSED STORM SEWER MANHOLE	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	N-WAL	NOISE WALL
	PROPOSED APRON ENDWALL	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	R-WAL	RETAINING WALL
----	SLOPE INTERCEPT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	NJ32	CONCRETE BARRIER TYPE NJ32
XXXXX	SAWING ASPHALT	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42	CONCRETE BARRIER TYPE S42
//////	SAWING CONCRETE			S42A	CONCRETE BARRIER TYPE S42A
					BASE PATCHING ASPHALTIC

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAILS - USH 18/151 (VERONA ROAD)	SHEET	E

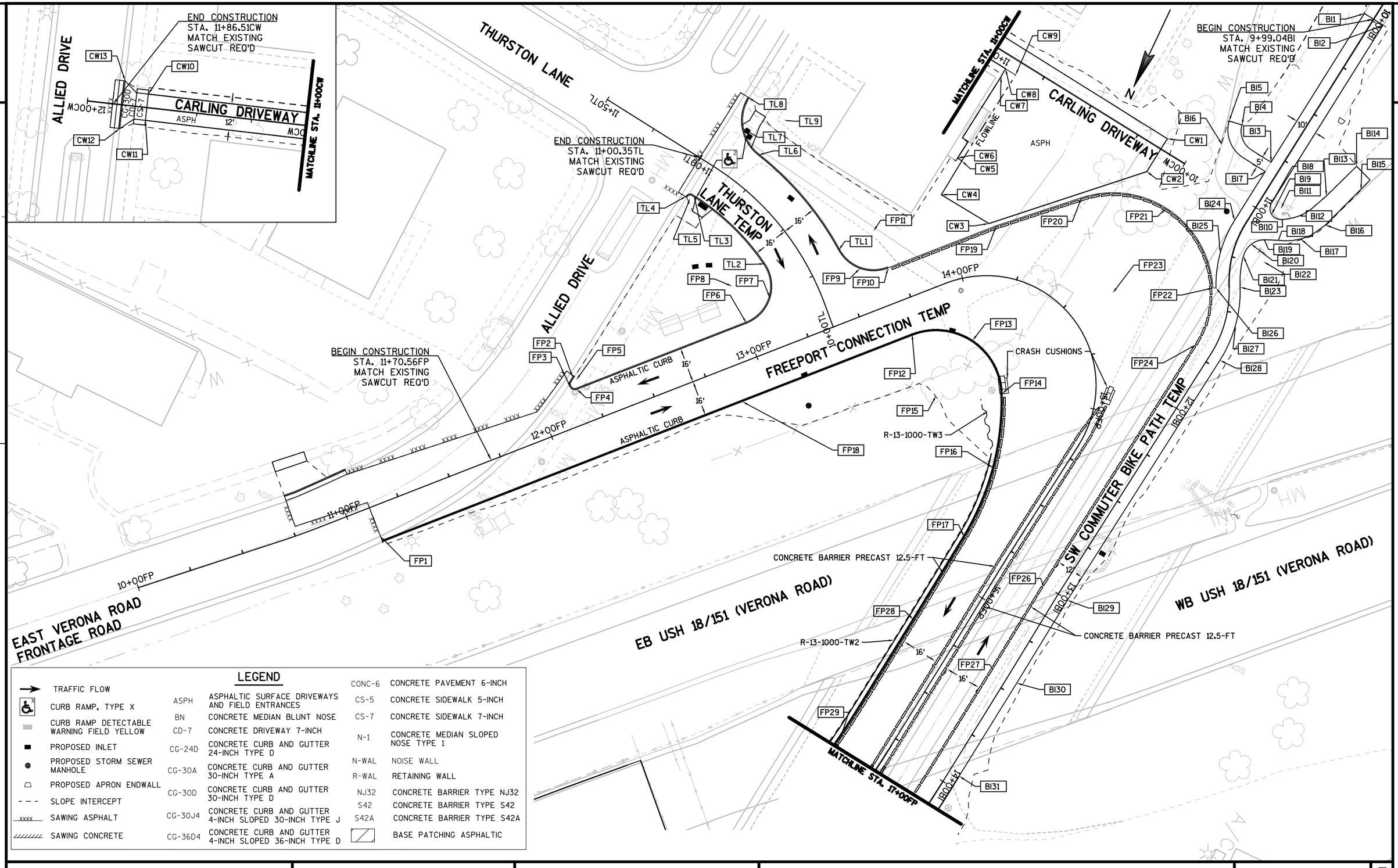
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PLAN DETAILS

POINT NO.	VERONA ROAD (VR) STATION	VERONA ROAD (VR) OFFSET	ELEV.	Y	X	REMARKS
VR1400	997+80.00	77.82 'LT	---	468,918.06	802,615.95	MATCH EXIST.
VR1401	997+80.00	30.17 'LT	---	468,883.70	802,648.96	MATCH EXIST.
VR1402	995+00.41	154.61 'LT	---	468,775.92	802,354.90	BOS; MATCH EXIST. SIDEWALK
VR1403	995+09.45	155.73 'LT	998.26	468,784.23	802,361.31	BOS
VR1404	995+06.24	144.14 'LT	---	468,773.54	802,367.09	BOC; CURB RAMP OPENING
VR1405	995+10.58	144.71 'LT	---	468,777.50	802,370.14	BOC; CURB RAMP OPENING
VR1406	995+09.65	106.21 'LT	---	468,749.99	802,397.09	BOC; CURB RAMP OPENING
VR1407	995+14.15	106.73 'LT	---	468,753.92	802,400.18	BOC; CURB RAMP OPENING
VR1408	995+16.05	69.86 'LT	---	468,729.64	802,428.00	MATCH EXIST. SIDEWALK
VR1409	995+20.79	70.08 'LT	---	468,733.41	802,431.40	MATCH EXIST. SIDEWALK
VR1410	997+46.42	165.17 'RT	---	468,719.03	802,759.38	MATCH EXIST. SIDEWALK
VR1411	997+77.02	161.14 'RT	---	468,743.64	802,779.32	MATCH EXIST. SIDEWALK
VR1412	997+72.92	254.05 'RT	---	468,673.66	802,840.57	R = 93'

BASE PATCHING ASPHALTIC

POINT NO.	CENTER OF PATCH, VERONA ROAD (VR) STATION	CENTER OF PATCH, VERONA ROAD (VR) OFFSET	CENTER OF PATCH, VERONA ROAD (VR) Y	CENTER OF PATCH, VERONA ROAD (VR) X	DIMENSIONS EB LANE(S)	DIMENSIONS WB LANE(S)	DIMENSIONS LENGTH
VR1413	996+22.98	13.22 'RT	468,744.72	802,564.46	5	---	6'



LEGEND

→	TRAFFIC FLOW			CONC-6	CONCRETE PAVEMENT 6-INCH
	CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CS-5	CONCRETE SIDEWALK 5-INCH
	CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE	CS-7	CONCRETE SIDEWALK 7-INCH
	PROPOSED INLET	CD-7	CONCRETE DRIVEWAY 7-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
	PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-WAL	NOISE WALL
	PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	R-WAL	RETAINING WALL
- - -	SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	NJ32	CONCRETE BARRIER TYPE NJ32
xxxx	SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	S42	CONCRETE BARRIER TYPE S42
	SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42A	CONCRETE BARRIER TYPE S42A
					BASE PATCHING ASPHALTIC

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAIL - FREEPORT CONNECTION TEMP (FP)	SHEET 129	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021205_PD(FREEPORT).DWG PLOT DATE : January 24, 2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

LEGEND

→	TRAFFIC FLOW			CONC-6	CONCRETE PAVEMENT 6-INCH
♿	CURB RAMP, TYPE X	ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	CS-5	CONCRETE SIDEWALK 5-INCH
▭	CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN	CONCRETE MEDIAN BLUNT NOSE	CS-7	CONCRETE SIDEWALK 7-INCH
■	PROPOSED INLET	CD-7	CONCRETE DRIVEWAY 7-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
●	PROPOSED STORM SEWER MANHOLE	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D	N-WAL	NOISE WALL
⏢	PROPOSED APRON ENDWALL	CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A	R-WAL	RETAINING WALL
- - -	SLOPE INTERCEPT	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	NJ32	CONCRETE BARRIER TYPE NJ32
xxxx	SAWING ASPHALT	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	S42	CONCRETE BARRIER TYPE S42
//////	SAWING CONCRETE	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	S42A	CONCRETE BARRIER TYPE S42A
				▨	BASE PATCHING ASPHALTIC

WEST VERONA ROAD FRONTAGE ROAD

SOUTHWEST COMMUTER BIKE PATH

SW 12' COMMUTER BIKE PATH TEMP

FREEPORT CONNECTION TEMP

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

DETENTION BASIN A

END CONSTRUCTION STA. 15+75.38BI MATCH EXISTING SAWCUT REQ'D

END CONSTRUCTION STA. 20+79.57FP MATCH EXISTING SAWCUT REQ'D

ASPHALTIC FLUME (SEE S.D.D.)

ASPHALTIC CURB

CONCRETE BARRIER PRECAST 12.5-FT

CRASH CUSHIONS

R-13-1000-TW1

R-13-1000-TW2

R-13-204

SHORING LEFT IN PLACE (TYP.)

MATCHLINE STA. 17+00FP

MATCHLINE STA. 97+25EE

BI35 BI36 BI34 BI33 BI32 BI37

FP47 FP46 FP45 FP43 FP44 FP42 FP41 FP39 FP40 FP38 FP37 FP36 FP30 FP31 FP32 FP33 FP34 FP35

EE1 EE2 EE3 EE4 EE5 EE6

15+00BI 16+00BI 18+00FP 19+00FP 20+00FP 21+00FP 21+94FP 93+00EE 94+00EE 95+00EE 96+00EE 97+00EE

10' 23' 17' 16' 6'

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAIL - FREEPORT CONNECTION TEMP (FP)	SHEET 130	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PLAN DETAILS\021205_PD(FREEPORT).DWG PLOT DATE : January 24, 2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

POINT NO.	FREEPORT CONNECTION TEMP (FP)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
FP1	11+11.08	16.00' RT	---	467,240.39	801,199.17	MATCH EXISTING 30-INCH C & G
FP2	12+17.04	20.54' LT	---	467,138.25	801,153.03	MATCH EXISTING 30-INCH C & G
FP3	12+16.09	17.75' LT	1008.53	467,140.85	801,151.64	MID
FP4	12+18.48	16.00' LT	1008.59	467,140.32	801,148.74	PT
FP5	12+18.48	18.50' LT	---	467,138.60	801,150.55	R = 2'
FP6	13+01.14	16.00' LT	1009.33	467,080.19	801,092.00	PC
FP7	13+15.22	22.79' LT	1009.22	467,065.29	801,087.28	MID
FP8	13+01.14	34.00' LT	---	467,067.84	801,105.10	R = 18'
FP9	13+58.26	20.48' LT	1009.65	467,035.58	801,056.06	MID
FP10	13+70.14	16.00' LT	1010.03	467,030.01	801,044.65	PT
FP11	13+70.14	34.00' LT	---	467,017.65	801,057.74	R = 18'
FP12	13+69.46	16.00' RT	1009.44	467,052.47	801,021.84	PC
FP13	13+96.28	28.62' RT	1009.60	467,043.36	800,995.80	MID
FP14	15+12.30	41.84' RT	1009.66	467,059.37	800,973.33	PCC
FP15	13+71.58	46.00' RT	---	467,071.52	800,998.57	R = 30'
FP16	15+47.39	27.01' RT	1009.48	467,091.58	800,962.33	MID
FP17	15+80.58	21.50' RT	1009.30	467,125.58	800,960.99	PT
FP18	12+86.52	16.59' RT	---	467,113.20	801,078.34	R = 122'
FP19	14+14.02	22.81' LT	1010.68	466,991.59	801,008.40	PI
FP20	14+34.31	45.79' LT	1011.32	466,963.48	800,978.87	PC
FP21	14+51.21	65.34' LT	1011.71	466,951.51	800,940.29	MID
FP22	14+69.01	62.23' LT	1011.51	466,974.95	800,907.39	PT
FP23	14+59.49	23.54' LT	---	466,995.82	800,944.26	R = 45.5'
FP24	14+79.73	47.14' LT	1011.17	467,001.60	800,903.30	PT
FP25	15+80.20	20.50' LT	1010.14	467,129.98	800,919.22	---
FP26	16+24.70	20.50' LT	1009.91	467,173.94	800,923.86	---
FP27	16+80.52	20.50' LT	1009.61	467,229.55	800,930.11	---
FP28	16+24.63	21.50' RT	1009.07	467,169.38	800,965.61	---
FP29	16+71.25	21.50' RT	1008.83	467,215.57	800,970.80	PC
FP30	18+45.05	21.53' RT	1005.99	467,371.32	801,020.76	MID
FP31	20+16.92	16.00' RT	1001.71	467,495.68	801,127.02	PT
FP32	20+83.80	16.00' RT	1001.18	467,536.97	801,179.63	PC
FP33	20+90.45	16.00' RT	1001.15	467,541.35	801,185.09	MID
FP34	20+97.09	16.00' RT	1001.13	467,545.85	801,190.45	PT
FP35	21+46.84	17.29' RT	---	467,578.57	801,228.54	MATCH EXISTING 30-INCH C & G
FP36	17+73.29	20.91' LT	1008.46	467,324.40	800,952.12	MID
FP37	17+91.24	22.16' LT	1008.13	467,342.47	800,957.81	PC
FP38	18+28.56	22.84' LT	1007.24	467,378.42	800,973.97	MID
FP39	18+65.81	23.73' LT	---	467,412.82	800,993.21	PT
FP40	18+65.73	23.24' LT	1006.16	467,412.48	800,993.58	---
FP41	19+63.26	17.03' LT	1003.04	467,486.58	801,064.21	PC
FP42	19+83.31	29.11' LT	1002.44	467,509.67	801,072.13	MID
FP43	19+83.49	53.51' LT	1002.47	467,528.50	801,056.61	PCC
FP44	19+63.65	42.03' LT	---	467,505.21	801,047.53	R = 25'
FP45	19+74.97	68.47' LT	1002.90	467,533.48	801,039.42	MID
FP46	19+64.85	81.73' LT	1003.83	467,535.32	801,021.63	PT
FP47	19+62.02	84.99' LT	---	467,535.38	801,016.89	MATCH EXISTING 30-INCH C & G

POINT NO.	THURSTON LANE TEMP (TL)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
TL1	10+29.68	16.00' RT	1009.31	467,032.22	801,068.31	PT
TL2	10+41.87	16.00' LT	1008.75	467,052.31	801,095.99	PT
TL3	10+94.25	16.00' LT	---	467,038.00	801,139.14	PC
TL4	10+96.25	18.01' LT	---	467,039.77	801,141.36	MATCH EXISTING 30-INCH C&G
TL5	10+94.25	18.00' LT	---	467,039.99	801,139.37	R = 2'
TL6	10+80.15	16.00' RT	1007.60	467,008.87	801,119.81	PC
TL7	10+91.51	21.68' RT	1007.07	467,000.96	801,131.66	MID
TL8	10+96.38	34.93' RT	---	466,987.18	801,135.25	MATCH EXISTING 30-INCH C&G
TL9	10+80.15	36.00' RT	---	466,989.37	801,115.37	R = 20'

NOTE: RADIUS DIMENSIONS ARE TO THE FACE OF CURB

POINT NO.	SW COMMUTER BIKE PATH TEMP (BI)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
BI1	9+99.05	5.00' RT	---	466,832.77	800,898.67	MATCH EXISTING APSHALT
BI2	9+99.05	5.00' LT	---	466,833.94	800,888.74	MATCH EXISTING APSHALT
BI3	10+78.84	5.00' RT	1008.11	466,912.01	800,907.98	---
BI4	10+71.51	25.15' RT	---	466,902.39	800,927.14	MATCH EXISTING SW
BI5	10+73.07	31.09' RT	---	466,903.24	800,933.22	MATCH EXISTING SW
BI6	10+83.85	16.69' RT	1007.90	466,915.63	800,920.17	---
BI7	10+83.84	5.00' RT	1008.18	466,916.98	800,908.57	---
BI8	10+94.31	5.00' LT	1009.21	466,928.54	800,899.86	PC
BI9	10+98.81	7.83' LT	1009.38	466,933.35	800,897.57	MID
BI10	10+98.22	13.11' LT	1009.53	466,933.38	800,892.26	PCC
BI11	10+94.31	10.00' LT	---	466,929.13	800,894.89	R = 5'
BI12	10+92.86	18.69' LT	---	466,928.71	800,886.09	MID
BI13	10+78.49	24.48' LT	1009.64	466,915.11	800,878.66	PT
BI14	10+59.74	28.93' LT	---	466,897.01	800,872.06	MATCH EXISTING APSHALT
BI15	10+61.77	37.39' LT	---	466,900.01	800,863.89	MATCH EXISTING APSHALT
BI16	10+89.82	31.10' LT	---	466,927.13	800,873.41	PT
BI17	11+01.17	25.01' LT	---	466,937.70	800,880.79	MID
BI18	11+07.06	16.70' LT	---	466,942.58	800,889.73	PC
BI19	11+10.91	11.52' LT	1010.04	466,944.93	800,895.17	PC
BI20	11+16.12	6.73' LT	1010.45	466,949.40	800,900.03	MID
BI21	11+23.34	5.00' LT	1010.91	466,955.93	800,901.05	PT
BI22	11+23.50	14.51' LT	---	466,954.31	800,891.68	R = 10'
BI23	11+36.06	5.00' LT	1011.82	466,969.28	800,896.32	PC
BI24	11+09.96	5.00' RT	---	466,943.09	800,911.63	PC
BI25	11+24.50	5.54' RT	1011.36	466,959.10	800,911.17	PT
BI26	11+38.91	6.00' LT	1011.60	466,974.30	800,906.10	MID
BI27	11+54.98	5.00' LT	1011.64	466,985.80	800,890.83	PT
BI28	11+70.97	5.00' LT	1011.43	467,003.20	800,890.40	---
BI29	13+00.22	5.00' LT	1010.33	467,131.47	800,906.30	---
BI30	13+44.42	5.00' LT	1010.07	467,175.34	800,910.93	---
BI31	13+94.07	5.00' LT	1009.78	467,224.70	800,916.48	---
BI32	15+18.89	4.73' LT	1008.04	467,346.39	800,946.63	PC
BI33	15+24.29	4.52' LT	1007.84	467,351.28	800,948.25	MID
BI34	15+29.69	4.72' LT	1007.63	467,356.35	800,949.19	PT
BI35	15+24.33	42.52' LT	---	467,360.74	800,911.44	R = 38'
BI36	15+75.36	5.11' LT	---	467,401.34	800,954.42	MATCH EXISTING APSHALT
BI37	15+75.38	5.09' RT	---	467,400.15	800,964.55	MATCH EXISTING APSHALT

POINT NO.	CARLING DRIVEWAY (CW)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
CW1	10+12.69	5.50' RT	1011.41	466,922.58	800,955.13	---
CW2	10+12.76	12.09' LT	1011.66	466,940.05	800,957.17	---
CW3	10+61.27	69.90' LT	1010.45	466,992.09	801,011.82	---
CW4	10+86.54	70.19' LT	1009.62	466,989.56	801,036.97	---
CW5	10+86.74	52.19' LT	---	466,971.65	801,035.16	---
CW6	10+89.08	52.17' LT	---	466,971.37	801,037.48	---
CW7	10+91.72	10.24' LT	---	466,929.41	801,035.43	---
CW8	10+91.88	6.17' LT	1009.24	466,925.35	801,035.14	---
CW9	10+86.55	6.19' LT		466,925.96	801,029.85	---
CW10	11+72.88	6.16' RT	---	466,904.06	801,114.25	---
CW11	11+72.85	5.84' LT	---	466,915.99	801,115.57	---
CW12	11+84.01	10.82' LT	---	466,919.69	801,127.21	MATCH EXISTING 30-INCH C&G
CW13	11+84.01	11.00' RT	---	466,898.06	801,124.78	MATCH EXISTING 30-INCH C&G

POINT NO.	W VERONA RD FRONTAGE RD (EE)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
EE1	93+58.87	23.00' LT	---	467,576.89	800,985.03	MATCH EXISTING SIDEWALK
EE2	93+70.70	24.21' LT	1004.70	467,577.93	800,996.88	---
EE3	93+98.00	27.00' LT	1004.62	467,580.33	801,024.22	---
EE4	94+66.77	27.00' LT	1003.96	467,579.33	801,092.98	PC
EE5	95+42.67	27.00' LT	1002.99	467,590.72	801,157.24	MID
EE6	96+18.58	27.00' LT	1001.98	467,625.09	801,212.72	PT

2

LEGEND

TRAFFIC FLOW			CONC-6 — CONCRETE PAVEMENT 6-INCH
CURB RAMP, TYPE X	ASPH — ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CS-5 — CONCRETE SIDEWALK 5-INCH
CURB RAMP DETECTABLE WARNING FIELD YELLOW	BN — CONCRETE MEDIAN BLUNT NOSE		CS-7 — CONCRETE SIDEWALK 7-INCH
PROPOSED INLET	CD-7 — CONCRETE DRIVEWAY 7-INCH		N-1 — CONCRETE MEDIAN SLOPED NOSE TYPE 1
PROPOSED STORM SEWER MANHOLE	CG-24D — CONCRETE CURB AND GUTTER 24-INCH TYPE D		N-WAL — NOISE WALL
PROPOSED APRON ENDWALL	CG-30A — CONCRETE CURB AND GUTTER 30-INCH TYPE A		R-WAL — RETAINING WALL
SLOPE INTERCEPT	CG-30D — CONCRETE CURB AND GUTTER 30-INCH TYPE D		NJ32 — CONCRETE BARRIER TYPE NJ32
SAWING ASPHALT			S42 — CONCRETE BARRIER TYPE S42
SAWING CONCRETE	CG-30J4 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J		S42A — CONCRETE BARRIER TYPE S42A
	CG-36D4 — CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D		BASE PATCHING ASPHALTIC

UH1
PI STA. 10+00BP
Y = 467,910.3341
X = 801,075.8769
CURVE UH2
P.I. = 12+34.43UH
Y = 437,887.5800
X = 801,309.2022
DELTA = 47° 10' 29" (RT)
D = 100° 31' 10.10"
T = 24.89
L = 46.93
R = 57.00
P.C. = 12+09.54UH
Y = 467,889.9957
X = 801,284.4319
P.T. = 12+56.48UH
Y = 467,867.7707
X = 801,324.2684

PI UH3
PI STA. 13+11.05UH
Y = 467,824.3346
X = 801,357.3044
PI UH4
P.I. = 13+51.87UH
Y = 467,794.2295
X = 801,384.8724

N

U-HAUL PARKING LOT

BEGIN CONSTRUCTION
STA. 10+00UH
MATCH EXISTING
SAWCUT REQ'D

BP: 10+00.00UH
UH1
UH5
UH6
10+00UH
S 84° 25' 48" E
11+00UH
12+00UH
PC: 12+09.54UH
PT: 12+56.48UH
UH2 UH3 UH4 UH7 UH8 UH9 UH10 UH11 UH12 UH13 UH14 UH15 UH16 UH17 UH18 UH19 UH20 UH21 UH22 UH23 UH24 UH25
CG-18D
CG-18D (R)
R-WAL
R-13-204
28'
S 37° 15' 19" E
13+00UH
S 42° 28' 52" E
13+11.05UH
EP: 13+51.87UH
ASPH
SIGN

STREET LIGHT TO BE REMOVED BY OTHERS (×4)

CLEARING AND GRUBBING STA. 10+54UH 3' LT
CLEARING AND GRUBBING REQ'D STA. 10+70UH 13' RT
CLEARING AND GRUBBING REQ'D STA. 10+50UH 59' RT
CLEARING AND GRUBBING REQ'D STA. 11+15UH 14' RT
CLEARING AND GRUBBING REQ'D STA. 11+39UH 14' RT
CLEARING AND GRUBBING REQ'D STA. 11+80UH 15' RT
CLEARING AND GRUBBING REQ'D STA. 12+55UH 3' LT
CLEARING AND GRUBBING REQ'D STA. 12+70UH 18' LT

DETENTION BASIN A (SEE DETAIL)

EE7 EE8 EE9 EE10 EE11 EE12 EE13
CS-5
6'
8'
98+00EE
ASPH
WEST VERONA ROAD FRONTAGE ROAD
SHORING LEFT IN PLACE (TYP.)
END CONSTRUCTION
STA. 13+50.00UH
MATCH EXISTING
SAWCUT REQ'D
MATCHLINE STA. 97+25EE

WB USH 18/151 (VERONA ROAD)
+50 VR
98+00 VR
98+50 VR
99+00 VR
99+50 VR
100+00 VR
100+00EE

POINT NO.	U-HAUL PARKING LOT (UH) STATION	OFFSET	ELEV.	Y	X	REMARKS
UH1	10+00.00	0.00' RT	---	467,910.43	801,074.88	ALIGNMENT BOP
UH2	---	---	---	---	---	ALIGNMENT CURVE
UH3	13+11.05	0.00' RT	---	467,824.34	801,357.30	ALIGNMENT PI
UH4	13+50.00	0.00' RT	---	467,795.61	801,383.61	MATCH EXISTING 18-INCH C&G
UH5	10+00.00	7.21' LT	---	467,917.61	801,075.71	MATCH EXISTING 18-INCH C&G
UH6	10+00.50	28.22' LT	---	467,938.37	801,079.11	---
UH7	11+86.00	28.22' LT	---	467,920.37	801,263.74	MATCH EXISTING 18-INCH C&G
UH8	11+91.00	23.13' LT	998.85	467,914.82	801,268.22	---
UH9	11+91.00	28.13' LT	---	467,919.80	801,268.70	R=4'
UH10	11+95.54	23.13' LT	998.88	467,914.38	801,272.74	---
UH11	12+00.53	28.01' LT	---	467,918.75	801,278.18	MATCH EXISTING 18-INCH C&G
UH12	11+95.54	28.13' LT	---	467,919.36	801,273.22	R=4'
UH13	12+09.54	0.00' RT	999.22	467,890.00	801,284.43	---
UH14	12+33.01	0.00' RT	999.40	467,883.04	801,306.67	---
UH15	12+56.48	0.00' RT	999.57	467,867.77	801,324.27	---
UH16	12+33.34	36.23' LT	---	467,914.41	801,324.80	---
UH17	12+63.34	28.22' LT	---	467,879.39	801,350.89	---
UH18	12+89.67	54.69' LT	---	467,874.46	801,387.90	---
UH19	12+92.51	51.87' LT	---	467,870.49	801,387.37	MATCH EXISTING 18-INCH C&G
UH20	12+77.46	36.74' LT	1000.27	467,873.31	801,366.22	---
UH21	12+76.39	31.30' LT	1000.30	467,870.86	801,361.24	---
UH22	12+81.01	28.22' LT	1000.32	467,865.33	801,361.58	---
UH23	12+81.01	33.22' LT	---	467,868.35	801,365.56	R=4'
UH24	13+09.76	28.22' LT	1000.12	467,842.44	801,378.99	---
UH25	13+50.00	28.22' LT	---	467,814.66	801,404.42	MATCH EXISTING 18-INCH C&G

POINT NO.	W VERONA RD FRONTAGE RD (EE) STATION	OFFSET	ELEV.	Y	X	REMARKS
EE7	97+77.30	27.07' LT	999.87	467,732.71	801,329.39	---
EE8	97+77.30	25.07' LT	---	467,731.24	801,330.75	---
EE9	97+85.89	25.08' LT	999.71	467,737.06	801,337.05	PC
EE10	98+01.73	25.09' LT	999.49	467,747.81	801,348.70	MID
EE11	98+18.00	25.07' LT	999.27	467,758.55	801,360.35	PT
EE12	98+23.00	25.02' LT	999.19	467,762.56	801,364.81	---
EE13	98+47.62	26.56' LT	---	467,781.11	801,387.99	MATCH EXISTING SIDEWALK

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN DETAIL - U-HAUL PARKING LOT (UH)	SHEET 132	E

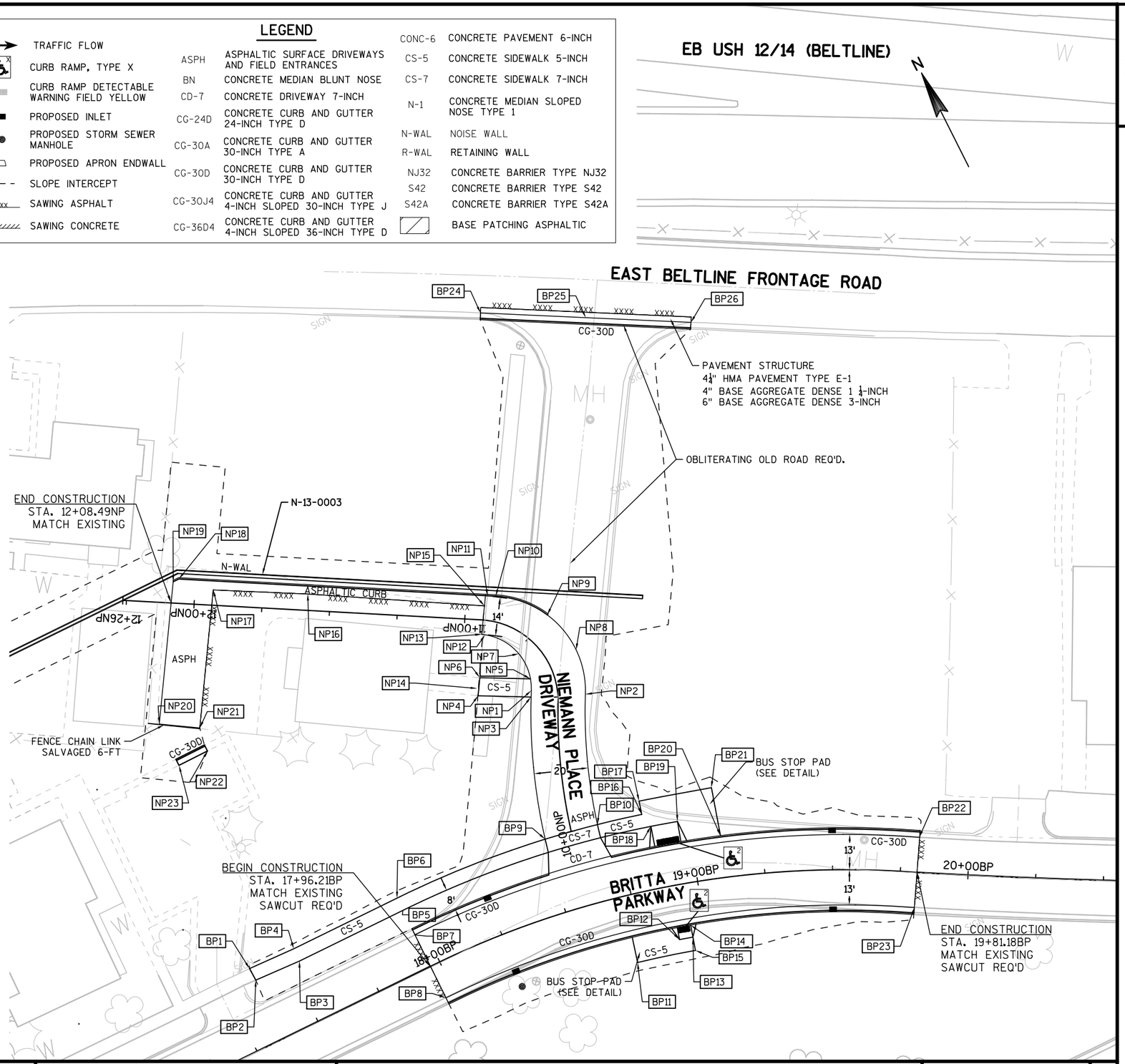
POINT NO.	BRITTA PARKWAY (BP)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
BP1	17+35.94	28.64' LT	---	468,402.28	803,159.49	---
BP2	17+36.14	23.81' LT	---	468,397.45	803,159.65	---
BP3	17+53.68	23.03' LT	1003.23	468,396.51	803,177.18	---
BP4	17+53.79	28.03' LT	1003.33	468,401.51	803,177.33	---
BP5	17+96.19	23.00' LT	1003.21	468,396.09	803,219.69	---
BP6	17+96.19	28.00' LT	1003.31	468,401.09	803,219.73	---
BP7	17+96.20	13.00' LT	---	468,386.09	803,219.60	MATCH EXISTING 30-INCH C&G
BP8	17+96.21	13.00' RT	---	468,360.11	803,219.39	MATCH EXISTING 30-INCH C&G
BP9	18+50.72	28.00' LT	---	468,396.00	803,278.35	---
BP10	18+69.25	28.00' LT	---	468,392.18	803,298.01	---
BP11	18+71.33	25.00' RT	---	468,340.02	803,288.39	---
BP12	18+89.43	20.00' RT	---	468,340.66	803,306.03	---
BP13	18+94.74	20.00' RT	---	468,339.25	803,310.82	---
BP14	18+94.67	15.50' RT	---	468,343.58	803,312.06	---
BP15	18+94.82	25.00' RT	---	468,334.44	803,309.45	---
BP16	18+84.76	28.00' LT	---	468,388.17	803,314.29	---
BP17	18+84.76	33.00' LT	---	468,393.00	803,315.60	---
BP18	18+87.02	23.00' LT	---	468,382.71	803,315.31	---
BP19	18+96.38	23.03' LT	---	468,379.94	803,324.90	---
BP20	19+10.52	15.50' LT	---	468,368.13	803,336.73	---
BP21	19+09.53	33.47' LT	---	468,385.45	803,341.66	---
BP22	19+81.05	13.00' LT	---	468,334.66	803,402.00	MATCH EXISTING 30-INCH C&G
BP23	19.81.18	13.00' RT	---	468,312.30	803,388.71	MATCH EXISTING 30-INCH C&G
BP24	18+71.84	221.55' LT	---	468,580.17	803,344.18	MATCH EXISTING 30-INCH C&G
BP25	18+95.00	211.90' LT	---	468,561.19	803,378.08	---
BP26	19+18.85	204.84' LT	---	468,542.21	803,411.98	MATCH EXISTING 30-INCH C&G

POINT NO.	NIEMANN PLACE DRIVEWAY (NP)		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
NP1	10+54.20	9.51' LT	1003.71	468,447.30	803,298.40	PC
NP2	10+50.34	10.16' RT	1004.03	468,437.09	803,315.61	PC
NP3	10+50.70	9.97' LT	---	468,445.21	803,297.20	---
NP4	10+88.01	28.00' LT	---	468,454.37	803,280.00	---
NP5	10+60.22	8.56' LT	---	468,451.27	803,300.06	---
NP6	10+91.67	21.30' LT	---	468,460.05	803,283.56	---
NP7	10+73.74	6.67' LT	---	468,461.44	803,300.38	MID
NP8	10+62.73	11.23' RT	1004.13	468,453.25	803,319.90	MID
NP9	10+75.00	11.08' RT	1004.40	468,469.56	803,316.21	PCC
NP10	10+90.23	9.31' RT	1005.00	468,484.28	803,302.29	PT
NP11	10+93.14	9.02' LT	1005.13	468,486.17	803,298.98	MATCH EXISTING DRIVEWAY
NP12	10+91.81	5.37' LT	---	468,473.30	803,292.42	PT
NP13	10+93.36	5.31' LT	---	468,474.03	803,291.38	MATCH EXISTING DRIVEWAY
NP14	10+94.09	25.34' LT	---	468,456.96	803,280.88	R = 20'
NP15	10+93.18	5.21' RT	---	468,482.95	803,296.96	MATCH EXISTING DRIVEWAY
NP16	11+58.36	6.05' RT	---	468,516.12	803,240.70	MATCH EXISTING DRIVEWAY
NP17	11+93.24	5.64' RT	---	468,533.09	803,210.23	MATCH EXISTING DRIVEWAY
NP18	12+06.14	9.00' RT	1004.40	468,542.42	803,200.70	---
NP19	12+08.15	7.87' RT	---	468,542.44	803,198.39	---
NP20	12+10.42	44.81' LT	1004.09	468,497.84	803,170.26	---
NP21	11+95.43	45.45' LT	---	468,489.84	803,182.94	---
NP22	11+92.17	53.78' LT	---	468,480.99	803,181.64	MATCH EXISTING 30-INCH C&G
NP23	12+02.35	59.63' LT	---	468,480.97	803,169.90	MATCH EXISTING 30-INCH C&G

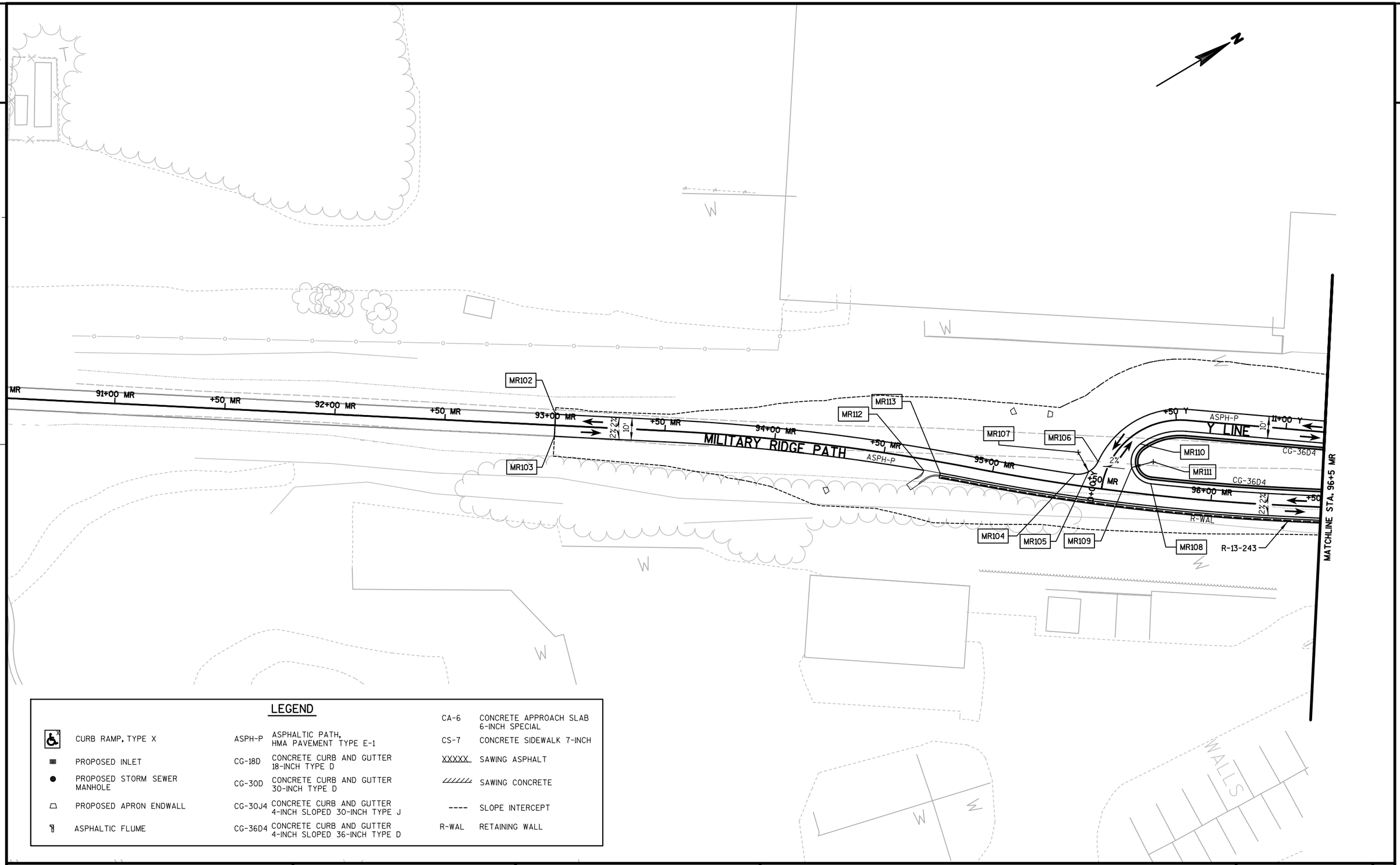
LEGEND

- TRAFFIC FLOW
- CURB RAMP, TYPE X
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- SAWING ASPHALT
- SAWING CONCRETE

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BN	CONCRETE MEDIAN BLUNT NOSE
CD-7	CONCRETE DRIVEWAY 7-INCH
CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
CG-30A	CONCRETE CURB AND GUTTER 30-INCH TYPE A
CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J
CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
CONC-6	CONCRETE PAVEMENT 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
N-WAL	NOISE WALL
R-WAL	RETAINING WALL
NJ32	CONCRETE BARRIER TYPE NJ32
S42	CONCRETE BARRIER TYPE S42
S42A	CONCRETE BARRIER TYPE S42A
	BASE PATCHING ASPHALTIC



2



LEGEND

CURB RAMP, TYPE X	ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1	CA-6 CONCRETE APPROACH SLAB 6-INCH SPECIAL
PROPOSED INLET	CG-18D	CONCRETE CURB AND GUTTER 18-INCH TYPE D	CS-7 CONCRETE SIDEWALK 7-INCH
PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX SAWING ASPHALT
PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	---- SLOPE INTERCEPT
ASPHALTIC FLUME	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	R-WAL RETAINING WALL

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS - MILITARY RIDGE PATH	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021226_pd_mr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

EB CTH PD

WB CTH PD

124+00 PD

+50 PD

125+00 PD

+50 PD

126+00 PD

+50 PD

127+00 PD

+50 PD

128+00 PD

PD200
PD201
PD202
PD203
PD214
PD204
PD205
PD206
PD207
PD208
PD209
PD218
PD213
PD211
PD217
PD212
PD210
PD219
PD215
PD216
PD221
PD224
PD222
PD225
PD220
PD226
PD223
PD228
PD229
PD227

Y201
Y203
Y202
Y204

REMOVING CONCRETE SIDEWALK REQ'D

REMOVING CONCRETE SIDEWALK REQ'D

6-INCHES BASE AGGREGATE DENSE ¾"

FA201
FA203
FA202
FA204
FA205
FA206
FA207
FA208

FIRE ACCESS

MR205

MILITARY RIDGE PATH

MR206

R-13-242

Z205
Z206
Z204
Z203

Z LINE

PD230
PD231
PD232
PD234
PD233
PD235
PD236
PD237
PD238
PD239
PD240
PD241
PD244
PD243
PD242

Y LINE

MILITARY RIDGE PATH

MR203
MR202
MR204

R-13-243

MATCHLINE STA. 96+50 MR

MATCHLINE STA. 102+50 MR

97+00 MR
98+00 MR
99+00 MR
100+00 MR
101+00 MR
102+00 MR

B-13-666

ASPH-P 12+00 Y
ASPH-P
ASPH-P 7+00 Z

CG-36D4
CG-30D
CG-30J4
CS-7
CA-6
R-WAL

BIKE LANE
BIKE LANE

I SIGN
SIGN
SCALE

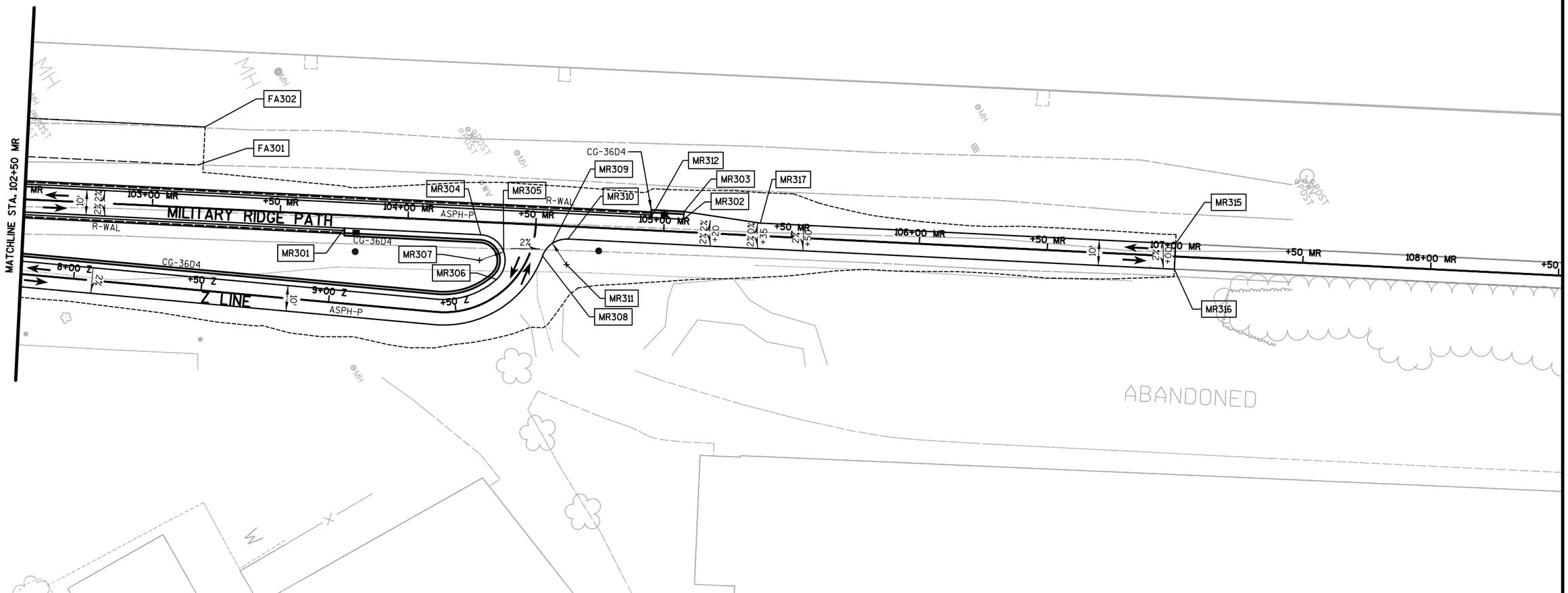
LEGEND

	CURB RAMP, TYPE X	ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1	CA-6	CONCRETE APPROACH SLAB 6-INCH SPECIAL
■	PROPOSED INLET	CG-18D	CONCRETE CURB AND GUTTER 18-INCH TYPE D	CS-7	CONCRETE SIDEWALK 7-INCH
●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	//////	SAWING CONCRETE
	ASPHALTIC FLUME	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	----	SLOPE INTERCEPT
				R-WAL	RETAINING WALL

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS - MILITARY RIDGE PATH	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021227_pd_mr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2



LEGEND

	CURB RAMP, TYPE X	ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1	CA-6	CONCRETE APPROACH SLAB 6-INCH SPECIAL
	PROPOSED INLET	CG-18D	CONCRETE CURB AND GUTTER 18-INCH TYPE D	CS-7	CONCRETE SIDEWALK 7-INCH
	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	//////	SAWING CONCRETE
	ASPHALTIC FLUME	CG-36D4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	----	SLOPE INTERCEPT
				R-WAL	RETAINING WALL

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS - MILITARY RIDGE PATH	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021228_pd_mr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PLAN DETAILS

POINT NO.	MILITARY RIDGE		Y LINE		Z LINE		ELEV.	Y	X	REMARKS
	STATION	OFFSET	STATION	OFFSET	STATION	OFFSET				
MR102	93+00.00	5.00 'LT	---	---	---	---	---	460,670.50	797,769.80	MATCH EXIST.
MR103	93+00.00	5.00 'RT	---	---	---	---	---	460,665.00	797,778.10	MATCH EXIST.
MR104	95+37.11	5.00 'LT	---	---	---	---	1001.79	460,859.20	797,913.70	---
MR105	95+43.13	6.97 'LT	---	---	---	---	1001.80	460,865.10	797,916.00	---
MR106	95+46.81	12.11 'LT	---	---	---	---	1000.28	460,871.10	797,914.20	---
MR107	95+37.11	15.00 'LT	---	---	---	---	---	460,865.50	797,906.00	R = 10'
MR108	95+71.95	5.00 'LT	---	---	---	---	1002.51	460,886.50	797,935.10	---
MR109	95+62.51	11.38 'LT	---	---	---	---	1001.15	460,882.90	797,924.40	---
MR110	95+65.11	22.41 'LT	---	---	---	---	998.74	460,891.60	797,917.20	---
MR111	95+71.95	15.00 'LT	---	---	---	---	---	460,892.50	797,927.10	R = 10'
MR112	94+79.77	5.00 'RT	---	---	---	---	999.67	460,801.07	797,877.06	---
MR113	94+87.37	5.00 'RT	---	---	---	---	999.98	460,806.80	797,877.06	---
MR202	96+75.77	5.00 'LT	---	---	---	---	1006.54	460,971.60	797,993.90	---
MR203	96+78.70	5.00 'LT	---	---	---	---	1006.69	460,974.10	797,995.50	---
MR204	96+86.47	5.00 'RT	---	---	---	---	1007.07	460,975.00	798,008.20	---
MR205	101+53.27	5.00 'LT	---	---	---	---	1015.09	461,378.70	798,242.90	---
MR206	101+60.25	5.00 'RT	---	---	---	---	1014.74	461,379.50	798,255.10	---
Y201	---	---	13+69.27	5.00 'LT	---	---	999.73	461,174.90	798,085.70	---
Y202	---	---	13+68.85	5.00 'RT	---	---	999.68	461,175.20	798,095.70	---
Y203	---	---	13+84.42	7.99 'LT	---	---	999.48	461,189.80	798,081.60	---
Y204	---	---	13+83.85	8.06 'RT	---	---	999.44	461,190.40	798,097.60	---
Z203	---	---	---	---	6+18.86	8.00 'RT	998.72	461,306.10	798,252.50	---
Z204	---	---	---	---	6+19.26	8.22 'LT	999.45	461,306.20	798,236.20	---
Z205	---	---	---	---	6+35.71	5.01 'RT	999.27	461,322.40	798,249.30	---
Z206	---	---	---	---	6+33.55	5.00 'LT	999.45	461,320.70	798,239.20	---
FA201	100+45.56	47.62 'LT	---	---	---	---	999.53	461,308.00	798,151.10	---
FA202	101+61.36	31.75 'LT	---	---	---	---	999.08	461,399.40	798,224.10	---
FA203	101+67.75	39.22 'LT	---	---	---	---	---	461,408.90	798,221.10	MATCH EXIST.
FA204	101+91.32	40.21 'LT	---	---	---	---	---	461,430.20	798,233.20	MATCH EXIST.
FA205	101+96.31	31.75 'LT	---	---	---	---	999.18	461,430.00	798,243.10	---
FA206	100+90.10	20.16 'LT	---	---	---	---	998.64	461,332.17	798,195.53	---
FA207	101+04.60	17.40 'LT	---	---	---	---	998.38	461,343.11	798,207.25	---
FA208	101+15.98	16.75 'LT	---	---	---	---	998.48	461,352.66	798,213.71	---
MR301	103+45.47	5.00 'RT	---	---	---	---	1004.16	461,559.16	798,373.14	---
MR302	105+07.58	5.00 'LT	---	---	---	---	1000.59	461,674.66	798,437.99	---
MR303	105+07.55	8.00 'LT	---	---	---	---	1000.47	461,676.43	798,435.45	---
MR304	104+28.70	5.00 'RT	---	---	---	---	1002.50	461,603.50	798,402.60	---
MR305	104+37.96	11.22 'RT	---	---	---	---	1002.03	461,607.70	798,412.90	---
MR306	104+35.70	22.14 'RT	---	---	---	---	1000.35	461,599.80	798,420.80	---
MR307	104+28.70	15.00 'RT	---	---	---	---	---	461,597.90	798,411.00	R = 10'
MR308	104+53.19	12.06 'RT	---	---	---	---	1001.69	461,620.00	798,422.10	---
MR309	104+56.80	6.96 'RT	---	---	---	---	1001.80	461,625.80	798,419.80	---
MR310	104+62.74	5.00 'RT	---	---	---	---	1001.79	461,631.80	798,421.50	---
MR311	104+62.74	15.00 'RT	---	---	---	---	---	461,626.30	798,429.80	R = 10'
MR312	104+94.80	5.00 'LT	---	---	---	---	1000.97	461,664.00	798,430.90	---
MR315	107+00.00	5.00 'LT	---	---	---	---	---	461,834.90	798,544.60	MATCH EXIST.
MR316	107+00.00	5.00 'RT	---	---	---	---	---	461,829.30	798,552.90	MATCH EXIST.
MR317	105+27.55	5.00 'LT	---	---	---	---	999.55	561,700.10	798,454.92	---
FA301	103+16.88	16.75 'LT	---	---	---	---	---	461,522.40	798,322.60	MATCH EXIST.
FA302	103+43.40	31.75 'LT	---	---	---	---	---	461,532.59	798,311.25	MATCH EXIST.

POINT NO.	CTH PD		ELEV.	Y	X	REMARKS
	STATION	OFFSET				
PD200	125+45.39	35.80 'RT	---	461,204.60	798,064.70	MATCH EXIST.
PD201	125+52.83	39.25 'RT	999.19	461,201.10	798,072.10	---
PD202	125+56.75	41.27 'RT	999.23	461,199.10	798,076.00	---
PD203	125+57.05	50.84 'RT	---	461,189.50	798,076.30	MATCH EXIST.SIDEWALK
PD204	125+56.21	35.35 'RT	998.84	461,205.00	798,075.50	---
PD205	125+64.53	39.70 'RT	998.96	461,200.70	798,083.80	---
PD206	125+67.80	41.37 'RT	999.07	461,199.00	798,087.10	---
PD207	125+72.13	41.19 'RT	998.99	461,199.10	798,091.40	---
PD208	125+75.18	39.25 'RT	998.79	461,201.10	798,094.50	---
PD209	125+83.11	34.22 'RT	998.58	461,206.10	798,102.40	---
PD210	125+94.03	33.81 'RT	998.29	461,206.40	798,113.30	---
PD211	125+86.30	38.11 'RT	998.54	461,202.10	798,105.60	---
PD212	125+82.73	40.38 'RT	998.78	461,199.90	798,102.00	---
PD213	125+83.12	49.73 'RT	---	461,190.50	798,102.40	MATCH EXIST. SIDEWALK
PD214	125+43.18	31.39 'RT	---	461,209.00	798,062.50	MATCH EXIST. 30-INCH C&G
PD215	125+21.50	7.72 'RT	---	461,232.80	798,040.90	MATCH EXIST. 30-INCH C&G
PD216	125+45.00	6.85 'RT	---	461,233.58	798,064.42	MATCH EXIST. 30-INCH C&G
PD217	126+16.77	28.33 'RT	---	461,211.80	798,136.10	MATCH EXIST. 30-INCH C&G
PD218	126+03.53	4.75 'RT	---	461,235.44	798,122.97	MATCH EXIST. 30-INCH C&G
PD219	126+32.10	3.74 'RT	998.72	461,236.33	798,151.55	---
PD220	126+73.66	2.25 'RT	---	461,237.60	798,193.10	MATCH EXIST. 30-INCH C&G
PD221	126+08.67	12.61 'LT	---	461,252.74	798,128.18	MATCH EXIST. 30-INCH C&G
PD222	126+40.70	15.58 'LT	998.53	461,255.56	798,160.25	---
PD223	126+73.07	18.56 'LT	---	461,258.50	798,192.60	MATCH EXIST. 30-INCH C&G
PD224	126+25.53	48.46 'LT	---	461,288.60	798,145.20	MATCH EXIST. 30-INCH C&G
PD225	126+57.41	48.50 'LT	---	461,288.50	798,177.10	MATCH EXIST. 30-INCH C&G
PD226	126+90.45	48.54 'LT	---	461,288.40	798,210.10	MATCH EXIST. 30-INCH C&G
PD227	127+83.32	47.86 'LT	---	461,286.90	798,303.80	MATCH EXIST. 30-INCH C&G
PD228	126+31.42	52.97 'LT	998.46	461,293.00	798,151.10	---
PD229	126+31.40	66.47 'LT	999.40	461,306.50	798,151.10	---
PD230	126+51.41	52.99 'LT	998.45	461,293.00	798,171.10	---
PD231	126+51.64	66.45 'LT	998.99	461,306.40	798,171.40	---
PD232	126+92.45	53.02 'LT	998.27	461,292.80	798,212.10	---
PD233	127+04.30	59.34 'LT	998.39	461,299.10	798,224.00	---
PD234	127+13.45	64.61 'LT	998.45	461,304.30	798,233.20	---
PD235	127+13.45	66.49 'LT	998.47	461,306.20	798,233.20	---
PD236	127+03.41	53.01 'LT	998.18	461,292.80	798,223.10	---
PD237	127+11.16	57.49 'LT	998.76	461,297.20	798,230.90	---
PD238	127+32.83	57.35 'LT	998.60	461,297.00	798,252.50	---
PD239	127+40.40	52.88 'LT	998.02	461,292.50	798,260.10	---
PD240	127+51.34	52.76 'LT	998.07	461,292.30	798,271.00	---
PD241	127+42.89	57.23 'LT	998.65	461,296.80	798,262.60	---
PD242	127+42.81	61.41 'LT	998.89	461,301.00	798,262.50	---
PD243	127+52.72	61.40 'LT	---	461,301.00	798,272.40	MATCH EXIST. SIDEWALK
PD244	127+52.73	66.40 'LT	---	461,306.00	798,272.50	MATCH EXIST. SIDEWALK

2

N

THURSTON LANE

ALLED DRIVE

CARLING DRIVEWAY

FLOWLINE

SIGN

12+00CW
1007.90
1008.14
1009.14
11+00CW
1009.23
1009.37
1009.28
1009.24
1009.93
1011.41
10+00CW
1011.66
1006.77
1007.07
1007.36
1007.60
11+50TL
11+00TL
1009.62
1009.52
HP=1011.44
1011.71
1009.35
1010.73
1010.45
1011.31
1009.21
1009.31
1009.48
1009.65
1010.36
1009.82
1010.03
1009.79
14+00FP
1008.74
1008.75
1008.99
1009.22
1009.32
10+00TL
1009.60
1009.44
HP=1009.71
1009.67
1009.66
1009.34
13+00FP
1008.80
1009.07
FREEPORT CONNECTION TEMP
12+00FP
1008.80
STA. 12+10FP,
LP=1008.43
1008.47
STA. 11+57FP,
HP=1008.69
1008.66
11+00FP
10+00FP
EAST VERONA ROAD
FRONTAGE ROAD
EB USH 18/151 (VERONA ROAD)
1005.76
1005.67
10+00BL
1006.74
1006.94
1007.86
1008.18
11+00BL
1009.21
1009.38
1009.53
1009.61
1009.55
1009.95
1010.07
1010.45
1010.91
HP=1011.81
1011.60
1011.51
1011.70
1011.40
1010.78
1010.65
12+00BL
1011.01
HP=1009.68
1009.48
1009.47
1010.40
1010.62
SW COMMUTER BIKE PATH TEMP
13+00BL
1010.29
1009.30
1009.20
1010.14
1010.33
14+00BL
1010.04
1008.94
1009.88
1010.04
1009.78
1009.61
MATCHLINE STA. 17+00FP
15+00BL
1009.74
WB USH 18/151 (VERONA ROAD)

PROJECT NO:1206-07-77	HWY:USH 18	COUNTY:DANE	PAVING DETAIL - FREEPORT CONNECTION TEMP (FP)	SHEET 138	E

2

SOUTHWEST COMMUTER BIKE PATH

WEST VERONA ROAD FRONTAGE ROAD

SW COMMUTER BIKE PATH TEMP

16+00BI

15+00BI

1006.86

1008.50

1007.05

1006.16

1009.26

1007.94

1006.64

1004.99

1008.44

1008.85

1002.90

1002.47

STA. 19+86FP,
LP=1002.15

1003.40

1003.04

1002.96

18+00FP

19+00FP

1009.17

1009.46

1005.86

1004.40

1007.05

20+00FP

FREEPORT CONNECTION TEMP

17+00FP

1007.99

1002.95

1001.94

1001.42

1008.61

1001.12

21+00FP

21+94FP

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - FREEPORT CONNECTION TEMP (FP)	SHEET 139	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PAVING DETAILS\021213_PD(FREEPORT).DWG PLOT DATE : January 24, 2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:40_XREF

2

N

10+00UH
998.99
999.12
999.25
999.37
11+00UH
STA. 11+21UH,
HP=999.46
999.45
999.27
999.07
998.82
998.85
998.86
998.88
STA. 11+81UH,
LP=999.05
999.15
12+00UH
999.22
999.33
999.52
999.57
HP=1000.32
999.71
1000.27
1000.30
1000.19
1000.12
999.90
13+00UH
1000.03
999.98
1000.08
13+52UH
99+00EE
98+00EE
100+00EE
WEST VERONA ROAD FRONTAGE ROAD
WB USH 18/151 (VERONA ROAD)

PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - U-HAUL PARKING LOT (UH)	SHEET 140	E

2

2

EB USH 12/14 (BELTLINE)

N

EAST BELTLINE FRONTAGE ROAD

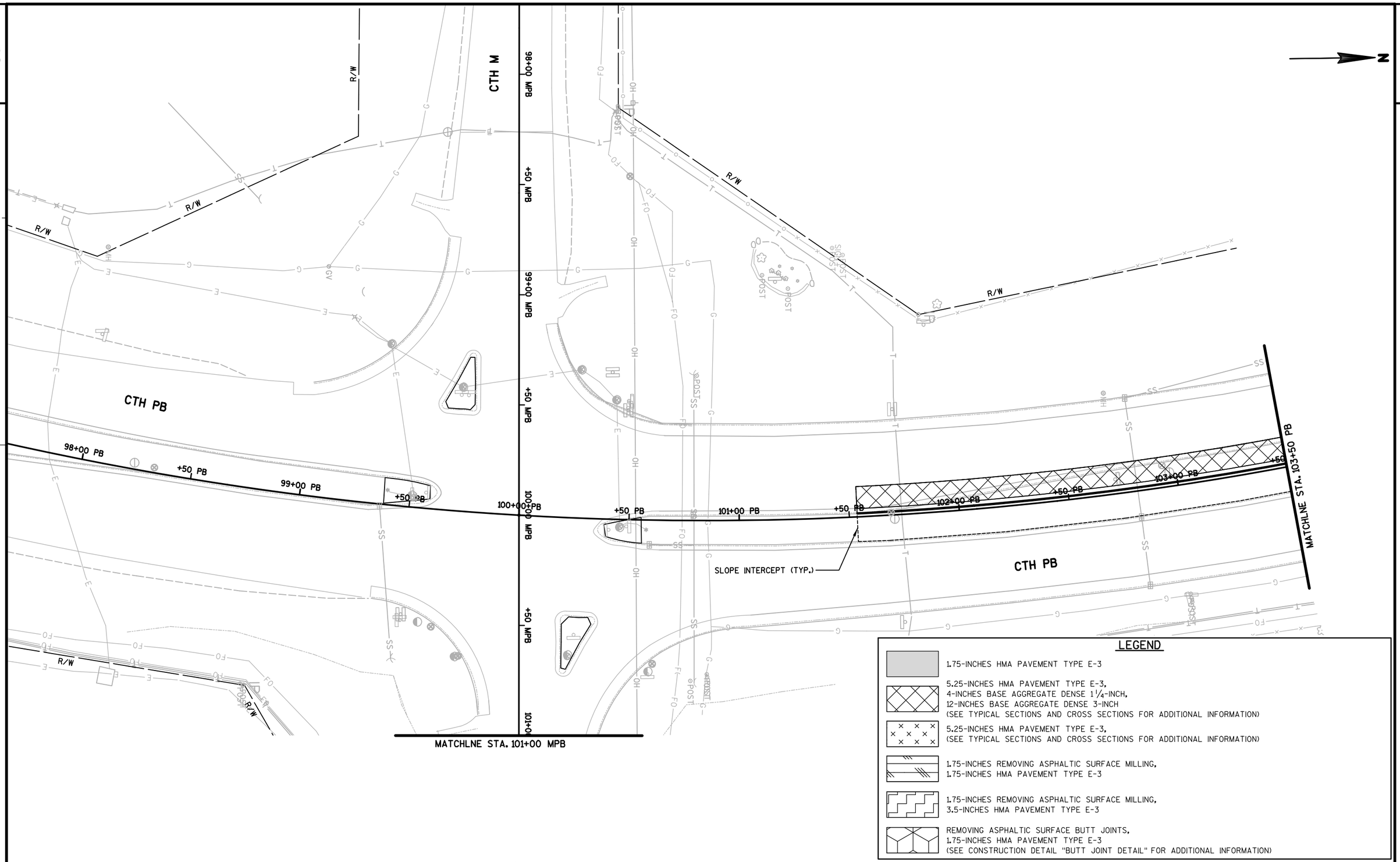
MH

SIGN

W

1004.40
1004.52
1005.02
1005.33
1005.48
STA. 11+07NP,
HP=1005.59
1005.37
1004.40
1004.26
1003.65
1004.03
1003.83
1003.43
12+26NP
12+00NP
11+00NP
10+00NP
NIEMANN PLACE
DRIVEWAY
1003.19
1003.44
1002.88
19+00BP
20+00BP
BRITTA
PARKWAY
1003.19
1003.46
1002.56
1002.88
1003.22
18+00BP
1002.56
1003.24

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - BRITTA PARKWAY (BP)	SHEET 141	E

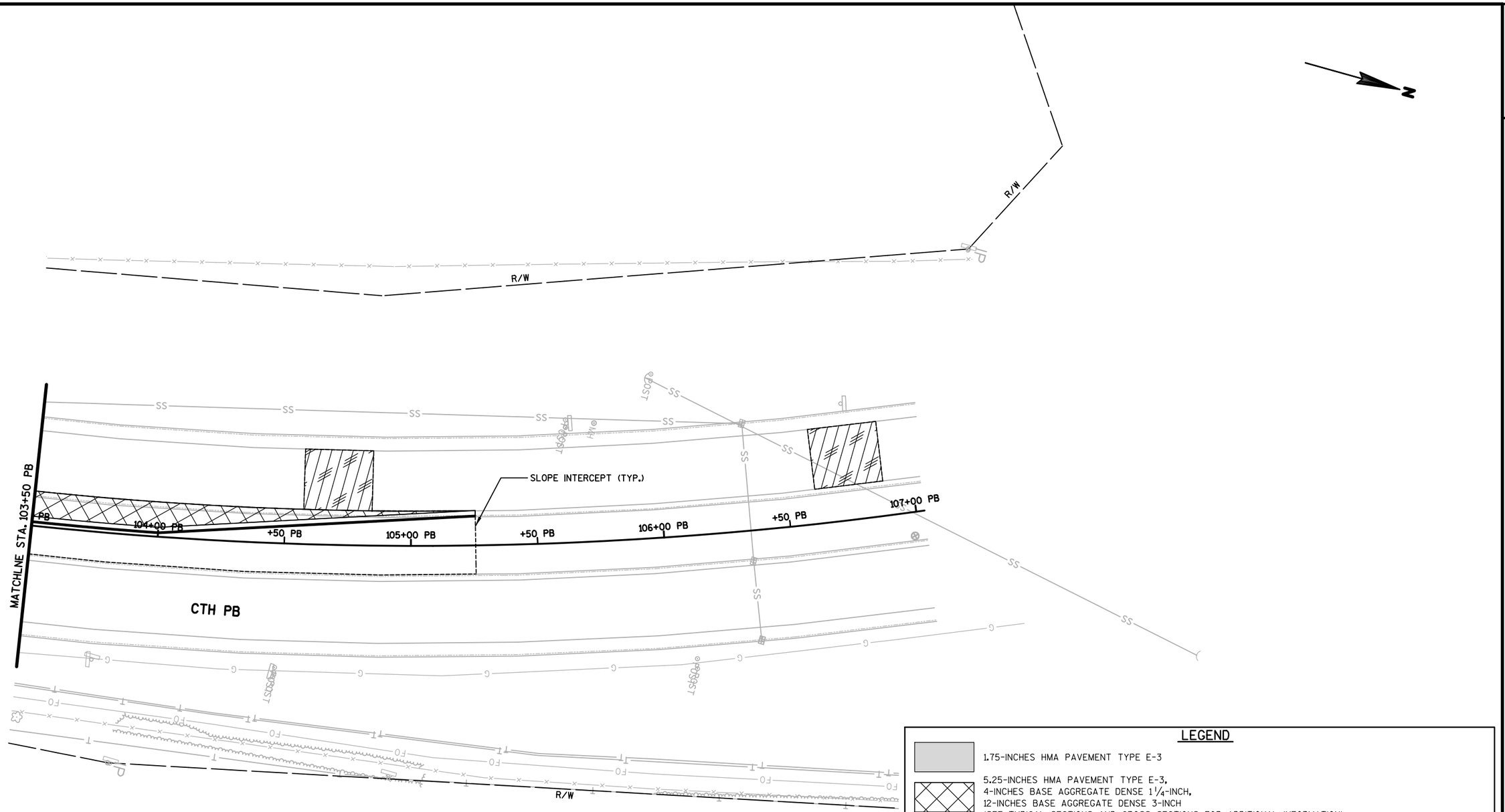


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - CTH PB AT CTH M	SHEET	E

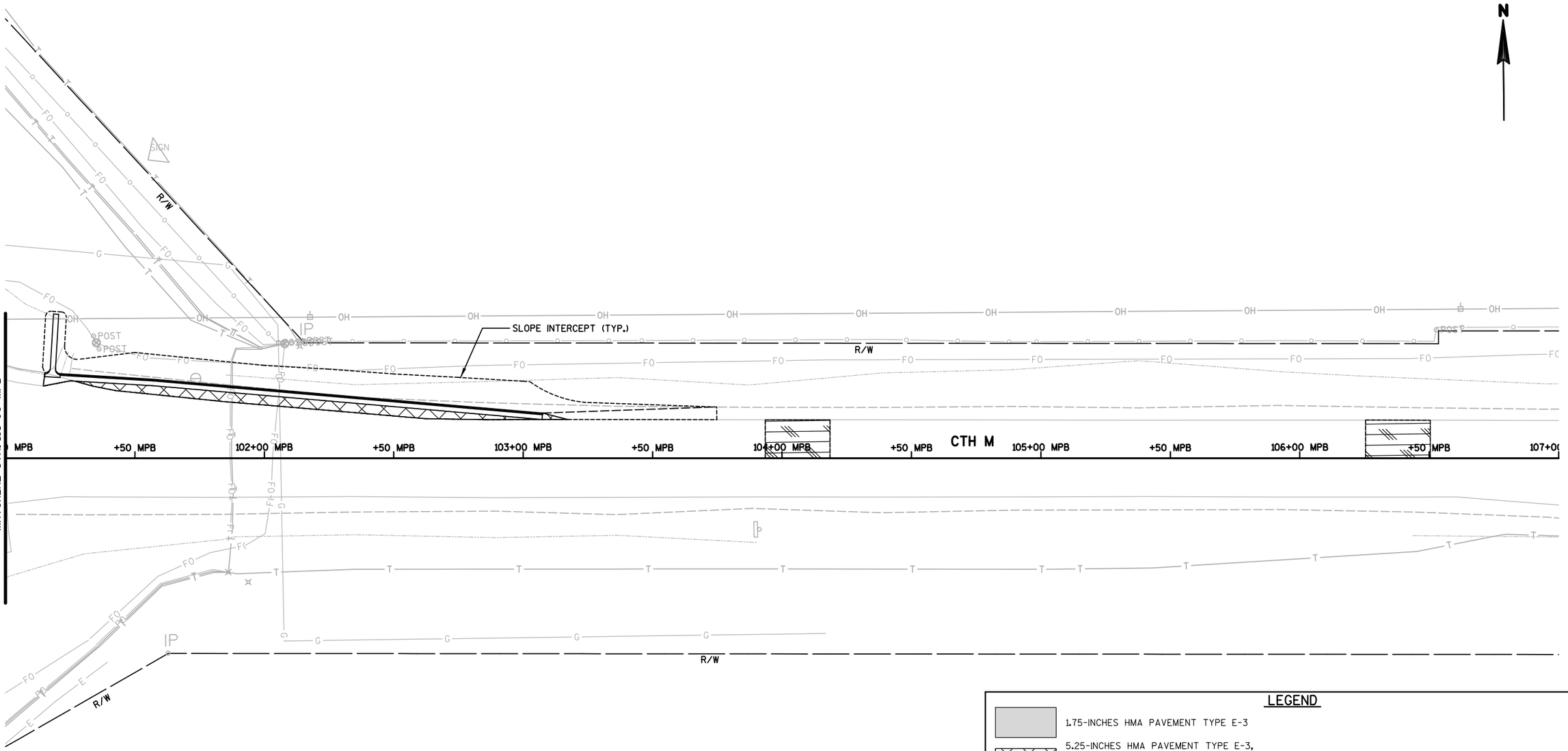
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021230_pd_pb.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2


N
R/W
R/W
SS
SS
SS

2



LEGEND

- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - CTH M AT CTH PB	SHEET 144	E

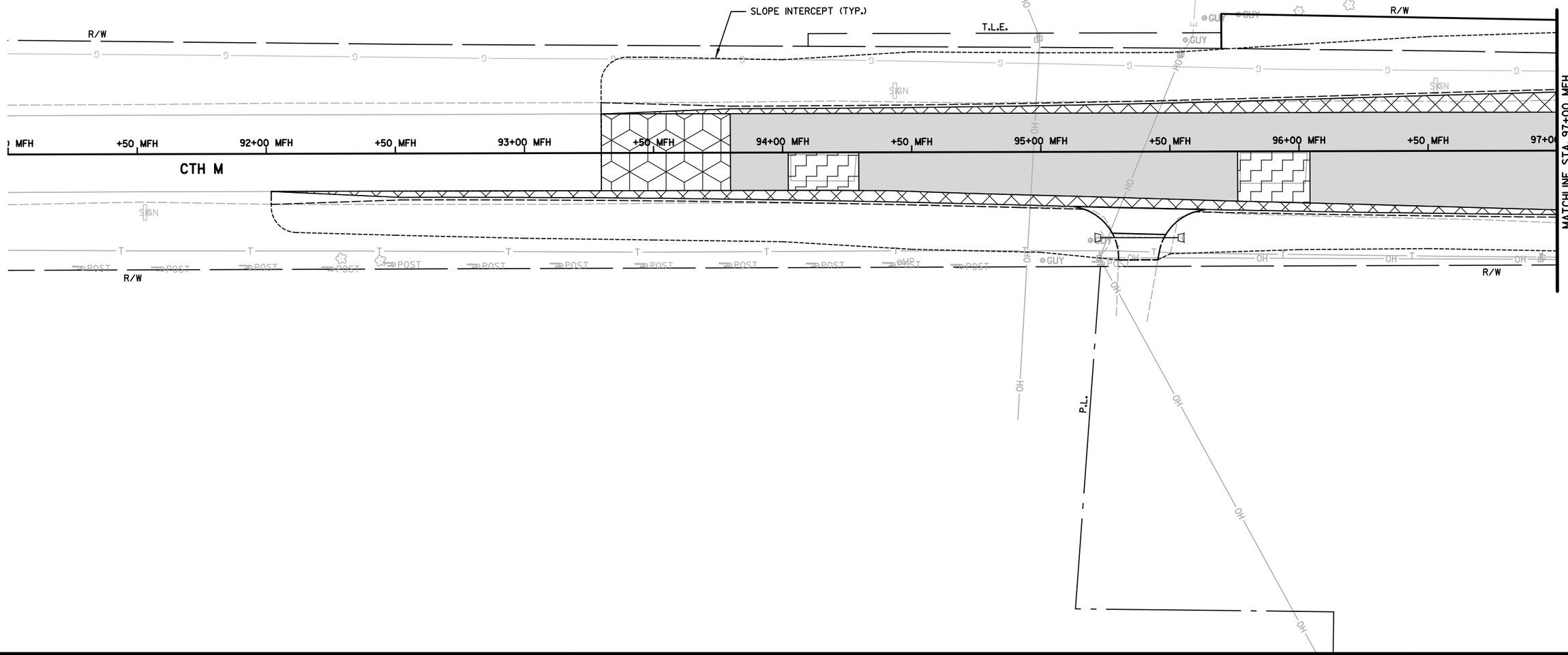
2

LEGEND

- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3, 4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH, 12-INCHES BASE AGGREGATE DENSE 3-INCH (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3, (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING, 1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING, 3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS, 1.75-INCHES HMA PAVEMENT TYPE E-3 (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

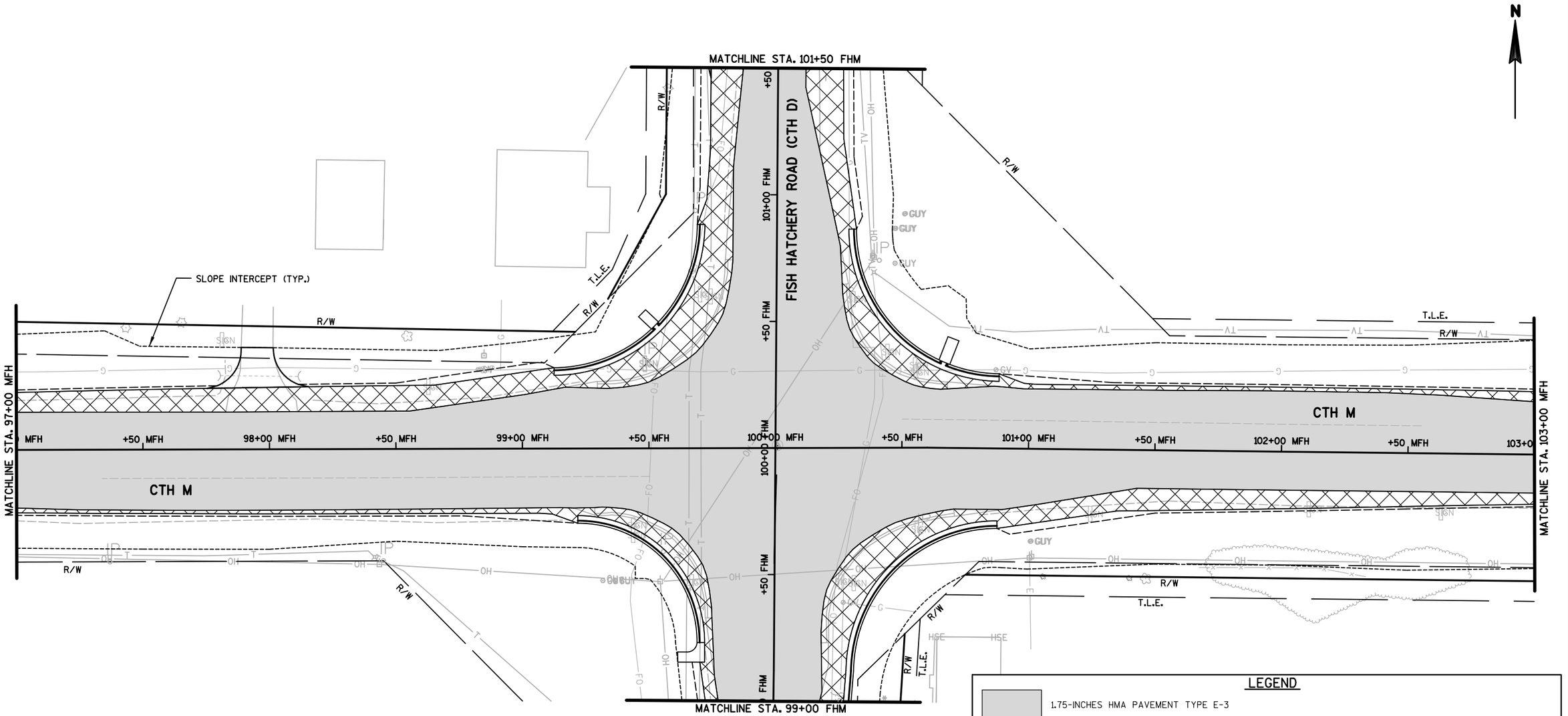
N

2



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - CTH M AT CTH D (FISH HATCHERY ROAD)	SHEET 145	E

2



LEGEND

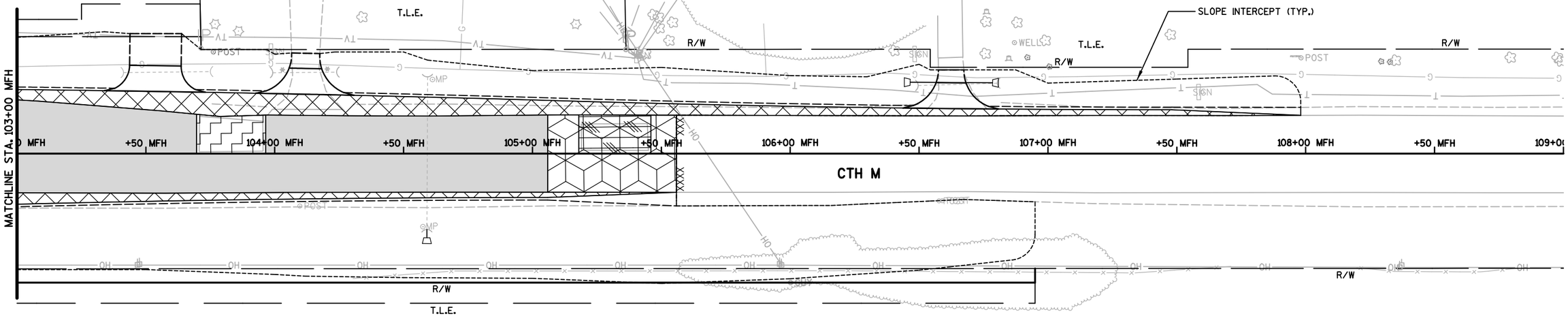
- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1¼-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - CTH M AT CTH D (FISH HATCHERY ROAD)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021234_pd_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

N



LEGEND

- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - CTH M AT CTH D (FISH HATCHERY ROAD)	SHEET 147	E

2

2

N

P.L.

P.L.

R/W

FISH HATCHERY ROAD (CTH D)

FHM +50 FHM 94+00 FHM +50 FHM 95+00 FHM +50 FHM 96+00 FHM +50 FHM 97+00 FHM +50 FHM 98+00 FHM +50 FHM 99+0

MATCHLINE STA. 99+00 FHM

R/W

SLOPE INTERCEPT (TYP.)

T.L.E.

R/W

P.L.

LEGEND

- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1¼-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

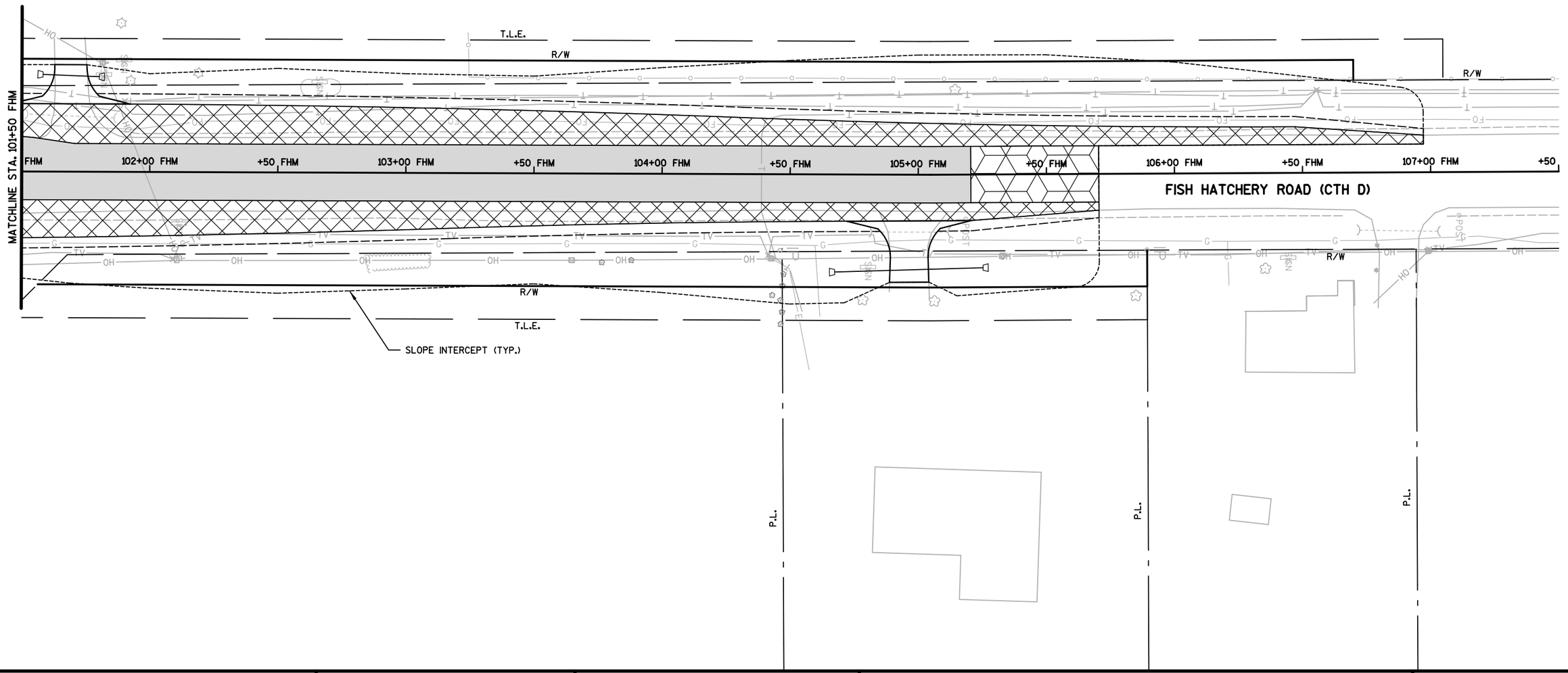
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - CTH D (FISH HATCHERY ROAD) AT CTH M	SHEET 148	E

2

LEGEND

- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1¼-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

N

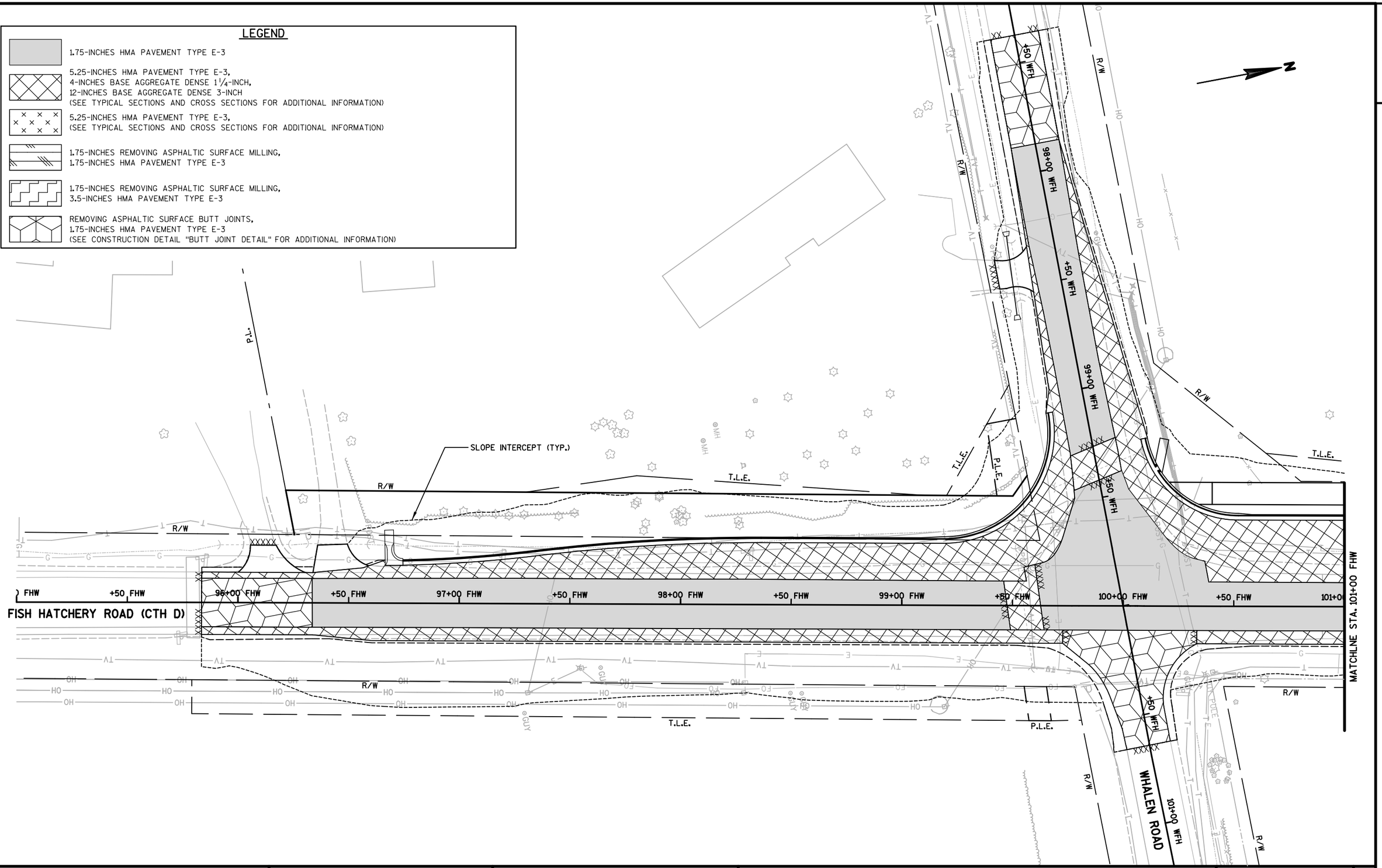


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - CTH D (FISH HATCHERY ROAD) AT CTH M	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021237_pd_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

LEGEND

- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - CTH D (FISH HATCHERY ROAD) AT WHALEN ROAD	SHEET 150	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\021238_pd_fhw.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

LEGEND

- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

N

T.L.E.

SLOPE INTERCEPT (TYP.)

R/W

P.L.

MATCHLNE STA. 101+00 FHW

101+00 FHW

+50 FHW

102+00 FHW

+50 FHW

103+00 FHW

+50 FHW

104+00 FHW

+50 FHW

105+00 FHW

+50 FHW

106+00 FHW

+50 FHW

107+00

FISH HATCHERY ROAD (CTH D)

R/W

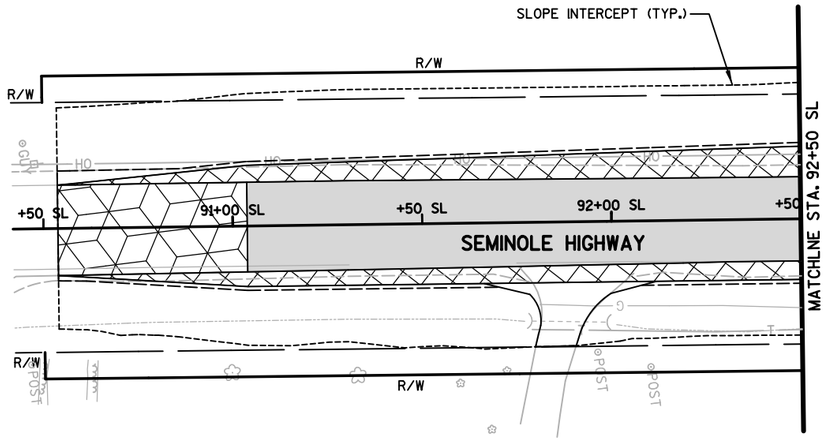
R/W

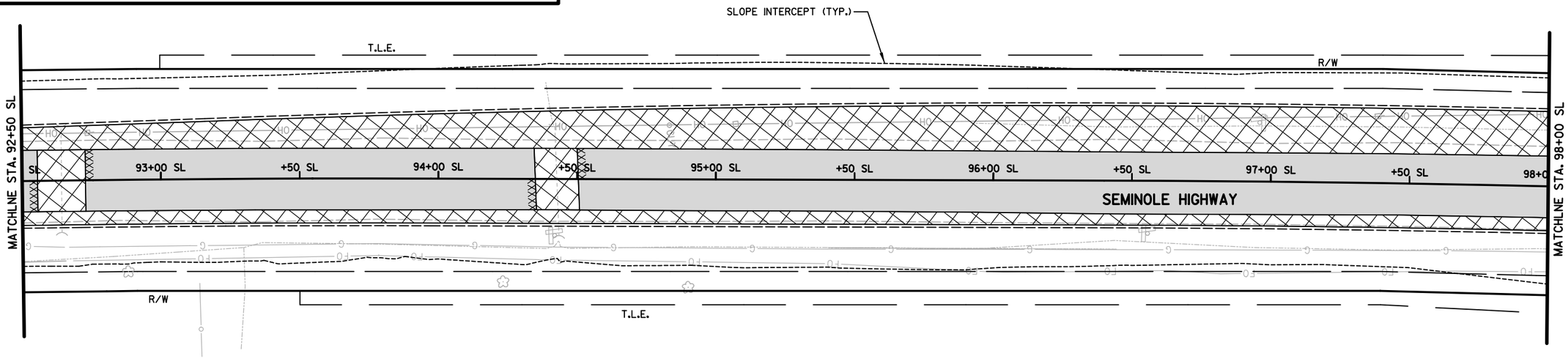
P.L.

P.L.

NOTE: SEE TYPICAL SECTION FOR PAVING INFORMATION FROM STA. 105+50 FHW TO SHAMROCK LANE.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - CTH D (FISH HATCHERY ROAD) AT WHALEN ROAD	SHEET 151	E





SEMINOLE HIGHWAY AND LACY ROAD
LEGEND

- 2-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 2-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  2-INCHES HMA PAVEMENT TYPE E-3
- 2-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  2-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - SEMINOLE HIGHWAY AT LACY ROAD	SHEET 152	E

2

MATCHLNE STA. 98+00 L

LACY ROAD

99+00 LR

+50 LR

100+00 LR

101+00 LR

MATCHLNE STA. 101+50 L

SEMINOLE HIGHWAY

MATCHLNE STA. 98+00 SL

MATCHLNE STA. 104+00 SL

98+00 SL

+50 SL

99+00 SL

100+00 SL

101+00 SL

102+00 SL

103+00 SL

104+00 SL

R/W

T.L.E.

P.L.

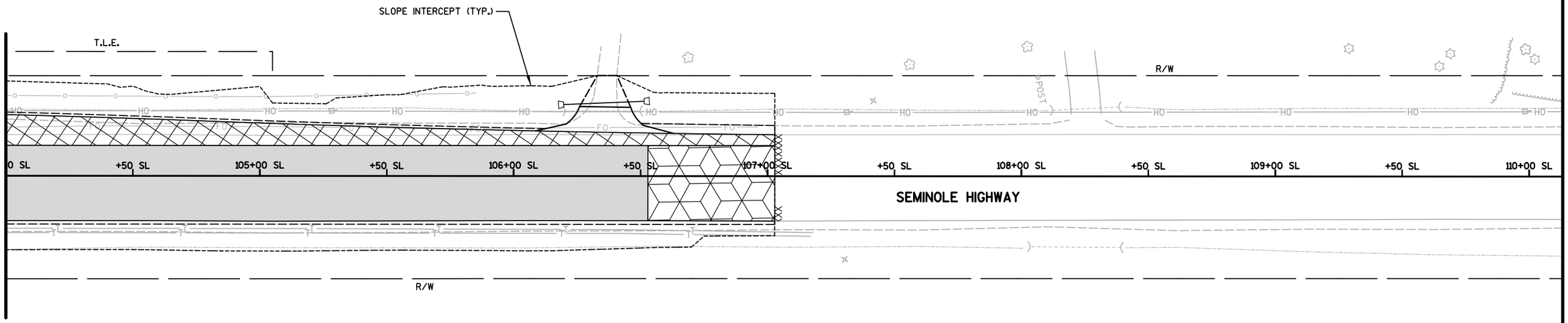
SLOPE INTERCEPT (TYP.)

SEMINOLE HIGHWAY AND LACY ROAD
LEGEND

- 2-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3, 4-INCHES BASE AGGREGATE DENSE 1¼-INCH, 12-INCHES BASE AGGREGATE DENSE 3-INCH (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3, (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 2-INCHES REMOVING ASPHALTIC SURFACE MILLING, 2-INCHES HMA PAVEMENT TYPE E-3
- 2-INCHES REMOVING ASPHALTIC SURFACE MILLING, 3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS, 2-INCHES HMA PAVEMENT TYPE E-3 (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - SEMINOLE HIGHWAY AT LACY ROAD	SHEET 153	E

2



SEMINOLE HIGHWAY AND LACY ROAD
LEGEND

- 2-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1¼-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 2-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  2-INCHES HMA PAVEMENT TYPE E-3
- 2-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  2-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - SEMINOLE HIGHWAY AT LACY ROAD	SHEET 154	E

2

N

P.L.

P.L.

R/W

92+00 LR +50 LR 93+00 LR +50 LR 94+00 LR +50 LR 95+00 LR +50 LR 96+00 LR +50 LR 97+00 LR +50 LR 98+0

MATCHLNE STA. 98+00 LR

LACY ROAD

R/W

SLOPE INTERCEPT (TYP.)

P.L.

P.L.

P.L.

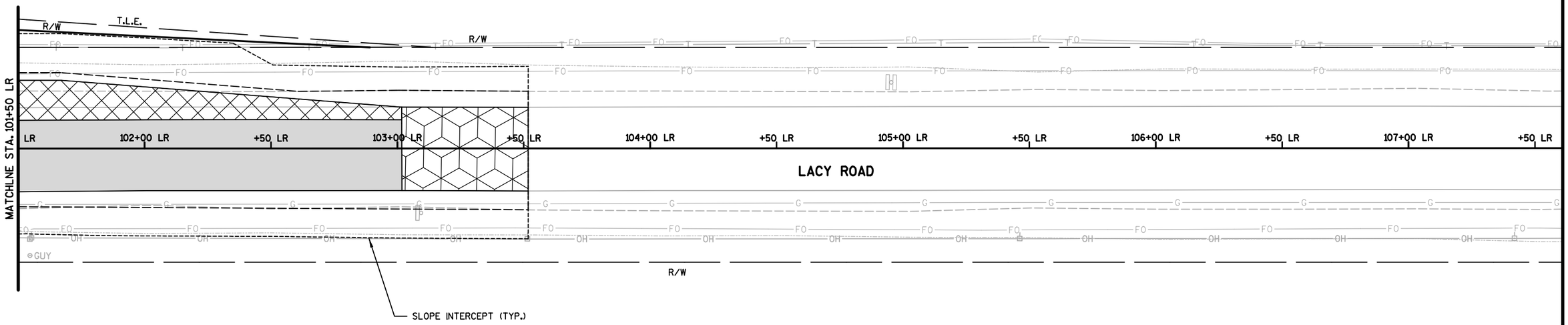
SEMINOLE HIGHWAY AND LACY ROAD
LEGEND

- 2-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1¼-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 2-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  2-INCHES HMA PAVEMENT TYPE E-3
- 2-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  2-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - LACY ROAD AT SEMINOLE HIGHWAY	SHEET 155	E

2

N



SEMINOLE HIGHWAY AND LACY ROAD
LEGEND

- 2-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1¼-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 2-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  2-INCHES HMA PAVEMENT TYPE E-3
- 2-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  2-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - LACY ROAD AT SEMINOLE HIGHWAY	SHEET 156	E

2

MATCHLNE STA. 98+50 SP

P.L.

P.L.

P.L.

R/W

R/W

SENTINEL PASS

99+00 SS

SLOPE INTERCEPT (TYP.)

R/W

T.L.E.

SS +50 SS 96+00 SS +50 SS 97+00 SS +50 SS 98+00 SS +50 SS 99+00 SS +50 SS 100+00 SS +50 SS 101+0

SEMINOLE HIGHWAY

MATCHLNE STA. 101+00 SS

MATCHLNE

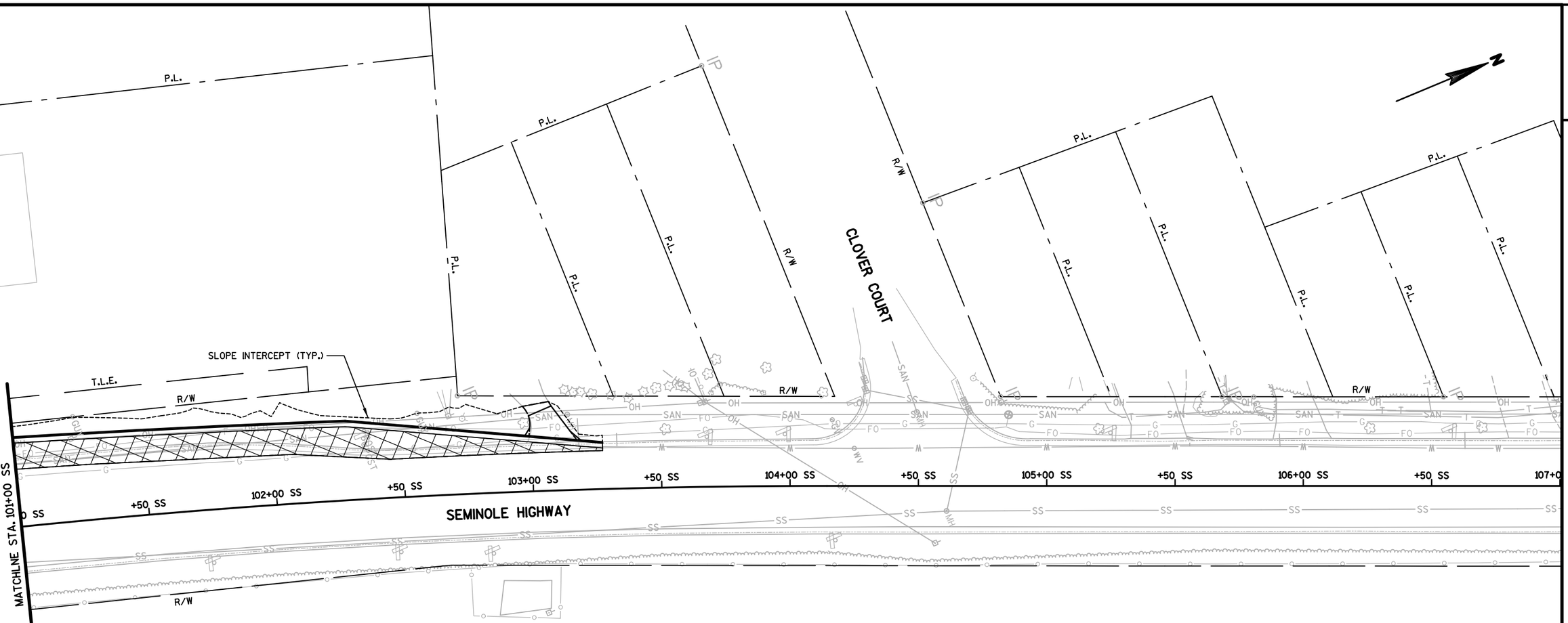
R/W

LEGEND

- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - SEMINOLE HIGHWAY AT SENTINEL PASS	SHEET 157	E

2



LEGEND

- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - SEMINOLE HIGHWAY AT SENTINEL PASS	SHEET 158	E

2

2

N

P.L.

P.L.

P.L.

P.L.

R/W

IP

POST

G

W

SAN

SS

MH

94+00 SP

+50

95+00 SP

96+00 SP

97+00 SP

98+00 SP

SENTINEL PASS

MATCHLNE STA. 98+50 SP

R/W

P.L.

R/W

CRESCENT ROAD

SLOPE INTERCEPT (TYP.)

LEGEND

1.75-INCHES HMA PAVEMENT TYPE E-3

5.25-INCHES HMA PAVEMENT TYPE E-3,
4-INCHES BASE AGGREGATE DENSE 1¼-INCH,
12-INCHES BASE AGGREGATE DENSE 3-INCH
(SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)

5.25-INCHES HMA PAVEMENT TYPE E-3,
(SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)

1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
1.75-INCHES HMA PAVEMENT TYPE E-3

1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
3.5-INCHES HMA PAVEMENT TYPE E-3

REMOVING ASPHALTIC SURFACE BUTT JOINTS,
1.75-INCHES HMA PAVEMENT TYPE E-3
(SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - SENTINEL PASS AT SEMINOLE HIGHWAY	SHEET	E

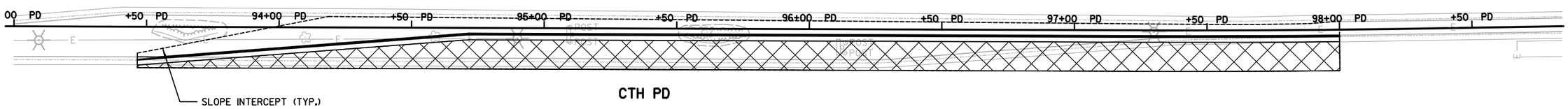
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2

2

N

CTH PD



CTH PD

LEGEND

- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

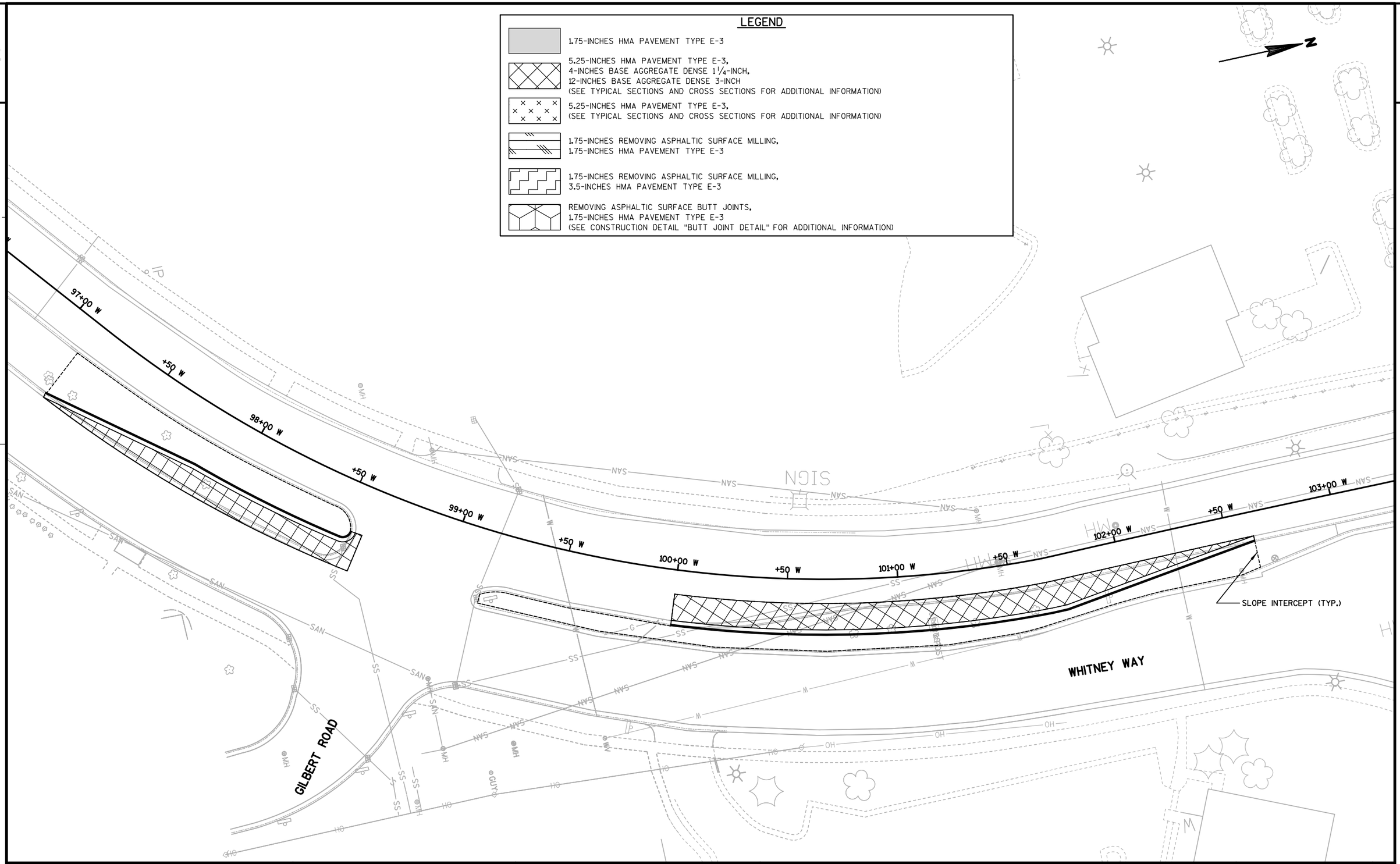
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - CTH PD AT SEMINOLE HIGHWAY	SHEET	E

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2

LEGEND

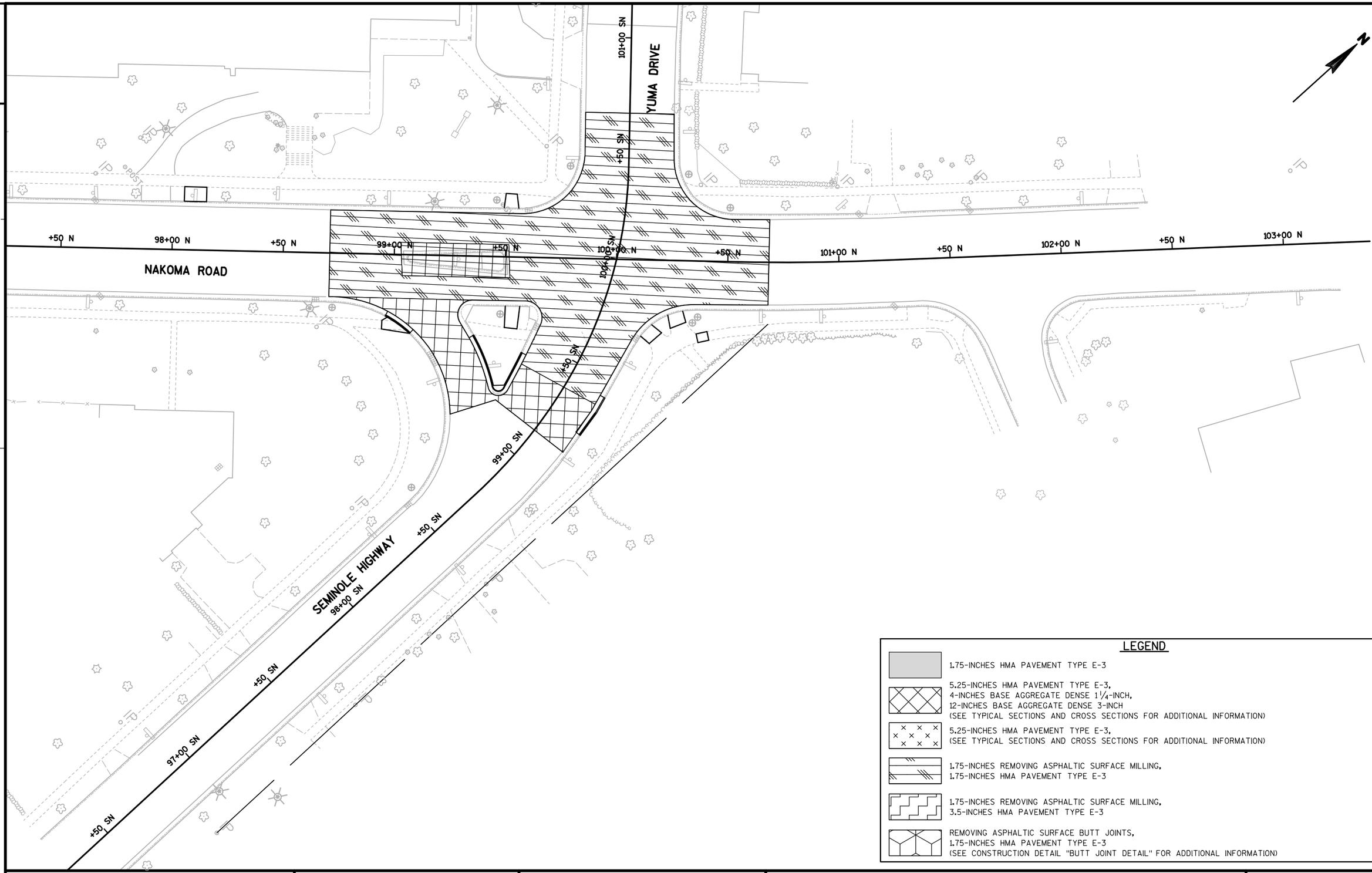
- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1¼-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - WHITNEY WAY AT GILBERT ROAD	SHEET	E

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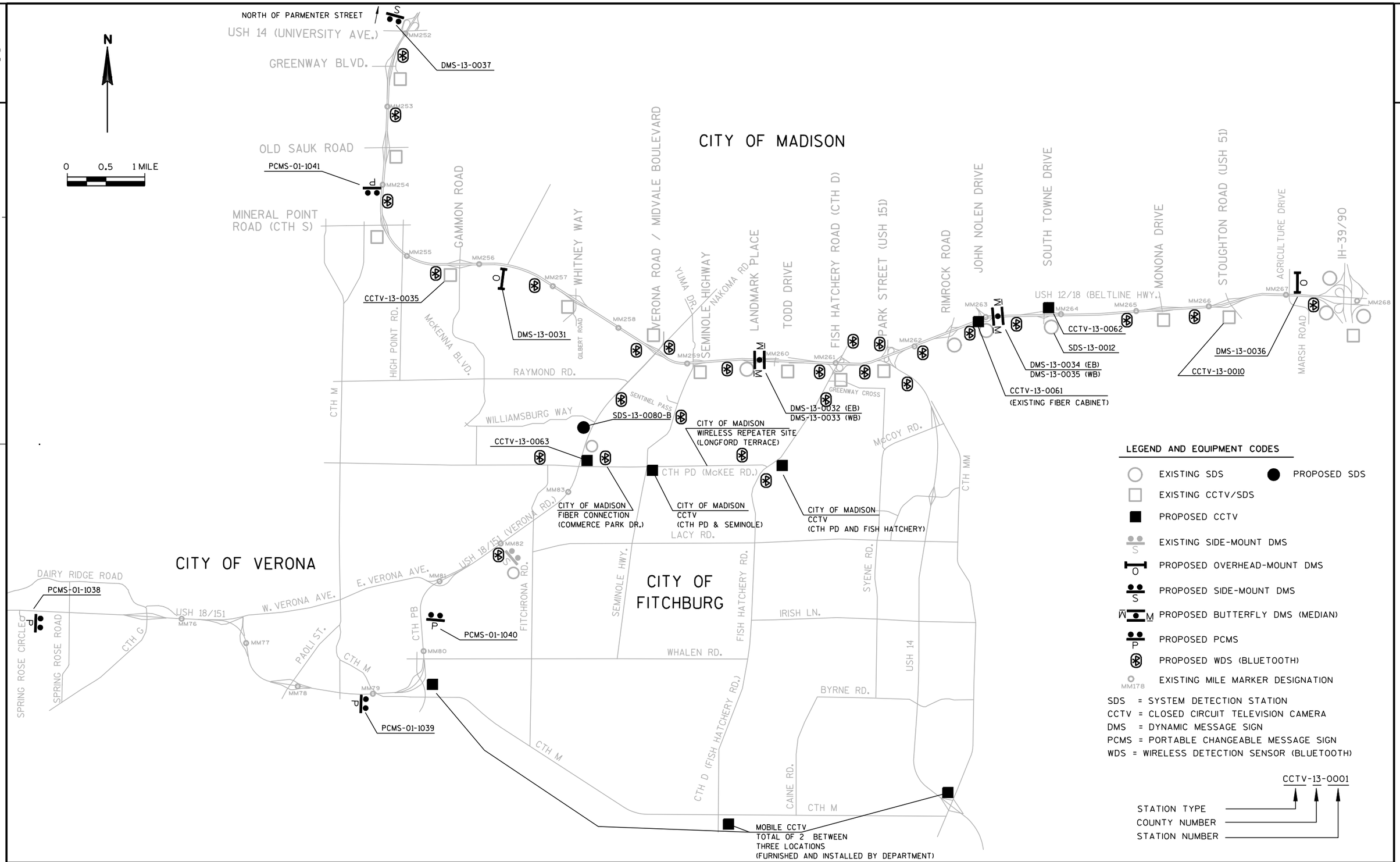
2



LEGEND

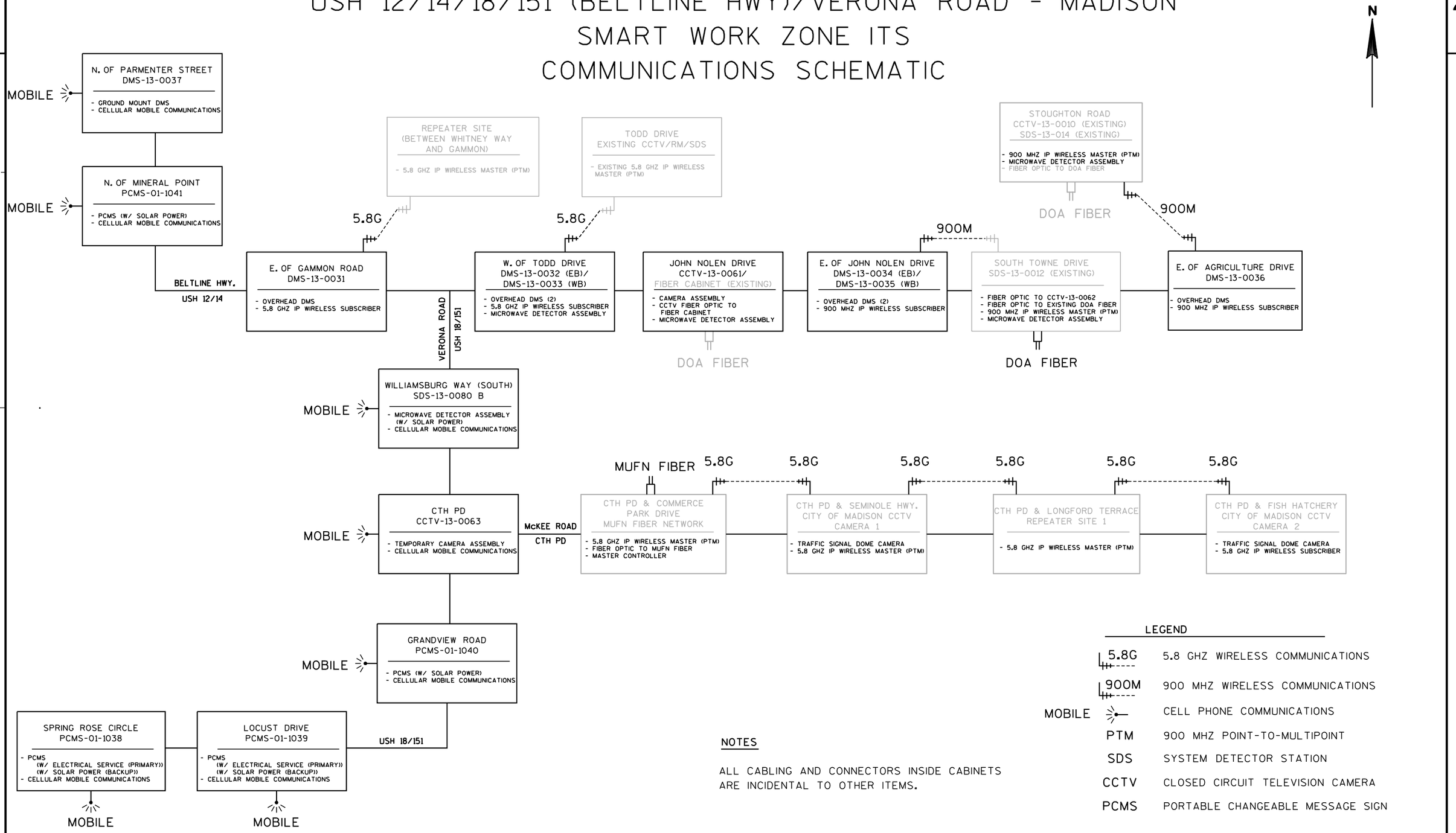
- 1.75-INCHES HMA PAVEMENT TYPE E-3
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  4-INCHES BASE AGGREGATE DENSE 1 1/4-INCH,
  12-INCHES BASE AGGREGATE DENSE 3-INCH
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 5.25-INCHES HMA PAVEMENT TYPE E-3,
  (SEE TYPICAL SECTIONS AND CROSS SECTIONS FOR ADDITIONAL INFORMATION)
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  1.75-INCHES HMA PAVEMENT TYPE E-3
- 1.75-INCHES REMOVING ASPHALTIC SURFACE MILLING,
  3.5-INCHES HMA PAVEMENT TYPE E-3
- REMOVING ASPHALTIC SURFACE BUTT JOINTS,
  1.75-INCHES HMA PAVEMENT TYPE E-3
  (SEE CONSTRUCTION DETAIL "BUTT JOINT DETAIL" FOR ADDITIONAL INFORMATION)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVING DETAIL - NAKOMA ROAD AT SEMINOLE HWY/YUMA DR	SHEET 162	E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS OVERVIEW	SHEET 163 E

USH 12/14/18/151 (BELTLINE HWY)/VERONA ROAD - MADISON
SMART WORK ZONE ITS
COMMUNICATIONS SCHEMATIC



LEGEND

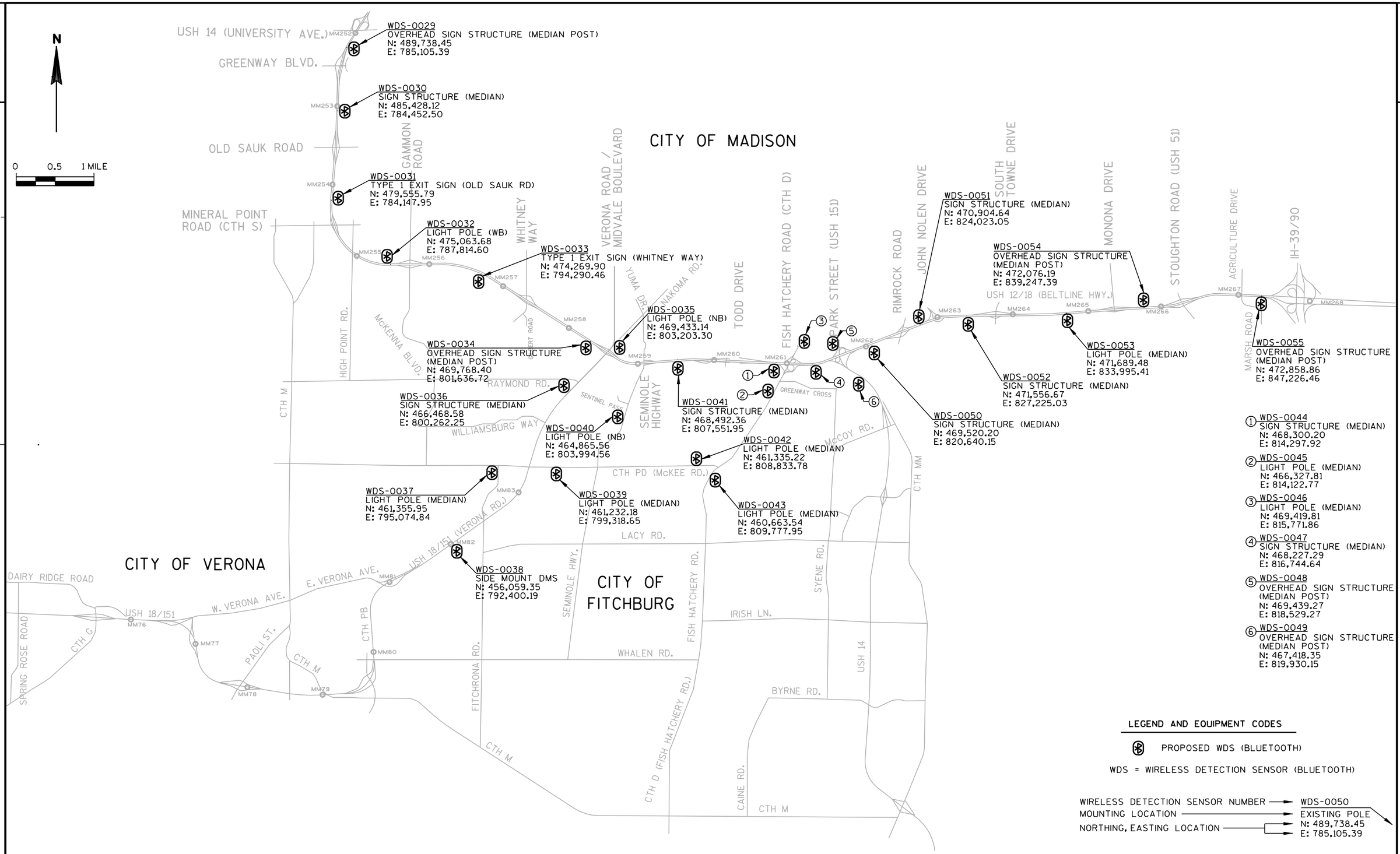
5.8G	5.8 GHZ WIRELESS COMMUNICATIONS
900M	900 MHZ WIRELESS COMMUNICATIONS
MOBILE	CELL PHONE COMMUNICATIONS
PTM	900 MHZ POINT-TO-MULTIPOINT
SDS	SYSTEM DETECTOR STATION
CCTV	CLOSED CIRCUIT TELEVISION CAMERA
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN

NOTES

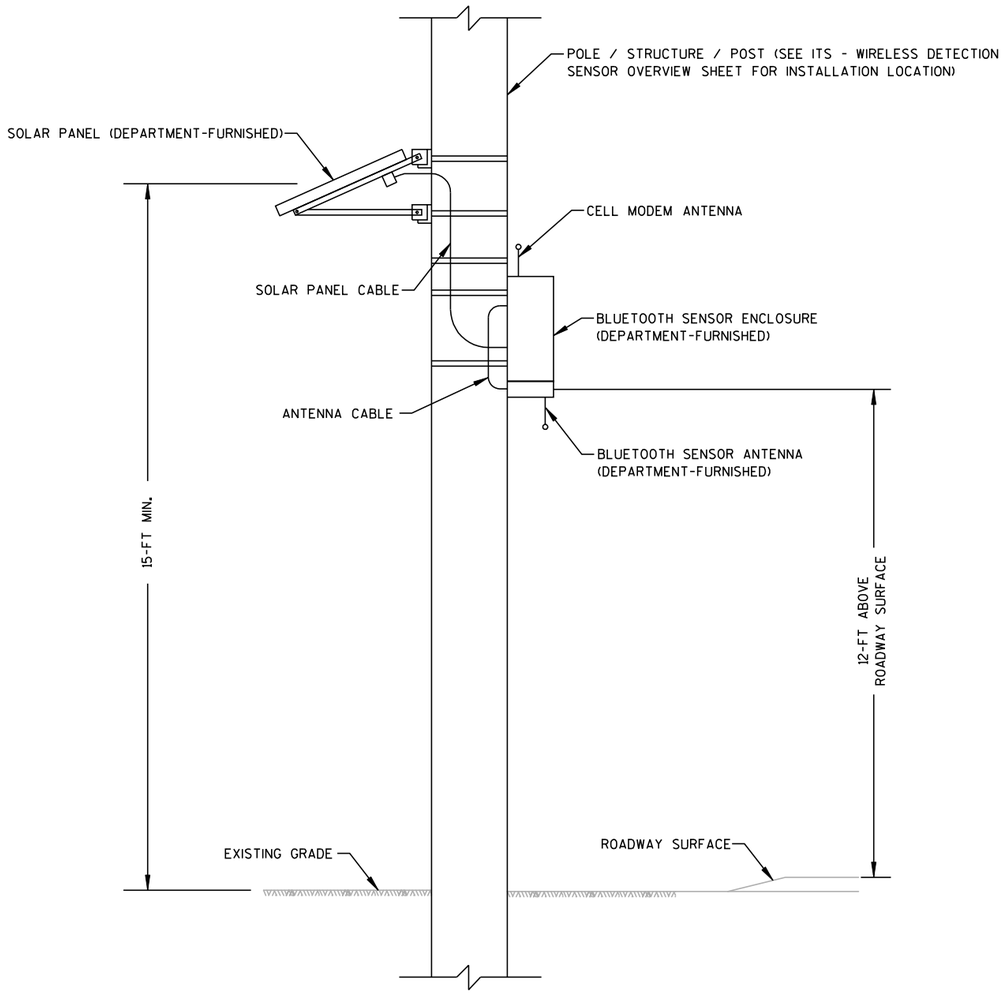
ALL CABLING AND CONNECTORS INSIDE CABINETS ARE INCIDENTAL TO OTHER ITEMS.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS COMMUNICATIONS OVERVIEW	SHEET

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021401b_fm_COMMUNICATIONS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



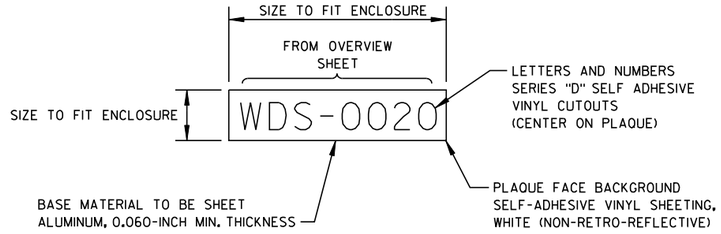
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - WIRELESS DETECTION SENSOR OVERVIEW	SHEET 165 E



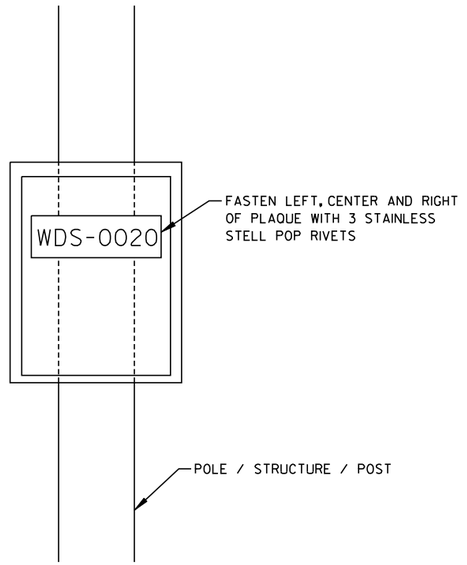
WIRELESS DETECTION SENSOR INSTALLATION DETAIL

GENERAL NOTES:

1. SECURE LOOSE CABLES TO POLE AT 5-FT INTERVALS.
2. MOUNT EQUIPMENT UTILIZING STAINLESS STEEL BANDS OR METHOD APPROVED BY THE ENGINEERING OR MANUFACTURER.
3. ORIENT SOLAR PANEL AS CLOSE TO SOUTH AS POSSIBLE
4. NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF THE WIRELESS DETECTION SENSORS, TO FIELD VERIFY LOCATIONS.



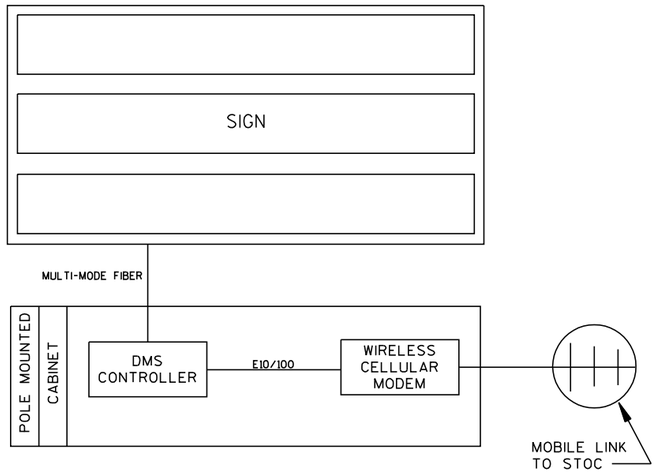
BLUETOOTH IDENTIFICATION PLAQUE DETAIL



BLUETOOTH SENSOR ENCLOSURE IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS

(TYPICAL ALL BLUETOOTH ENCLOSURES)
ONE PLAQUE PER ENCLOSURE REQUIRED.

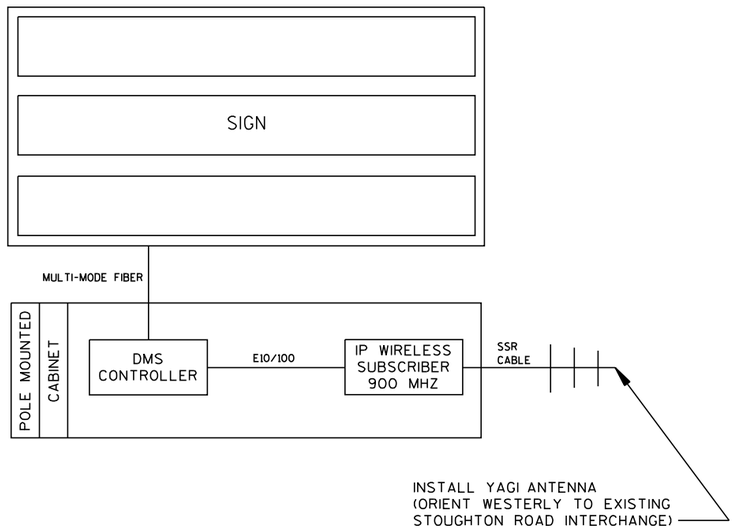
DYNAMIC MESSAGE SIGN



CABINET DETAIL

DMS-13-0037 (GROUND MOUNT DMS W/ MOUNTED CABINET)
(PARMENTER STREET)

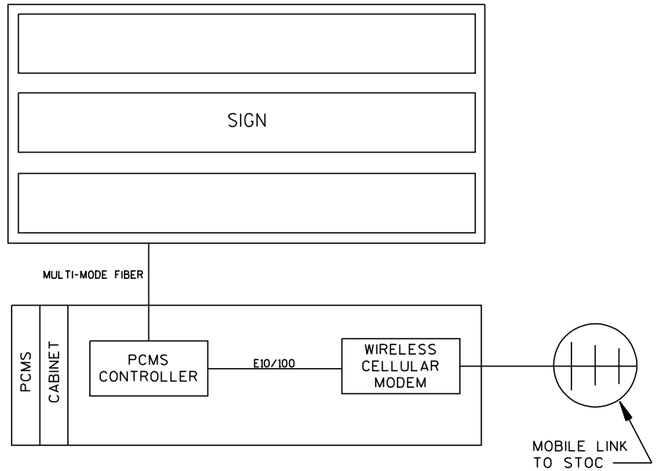
DYNAMIC MESSAGE SIGN



CABINET DETAIL

DMS-13-0036 (OVERHEAD W/MOUNTED CABINET) - AGRICULTURE DRIVE

PORTABLE CHANGEABLE MESSAGE SIGN

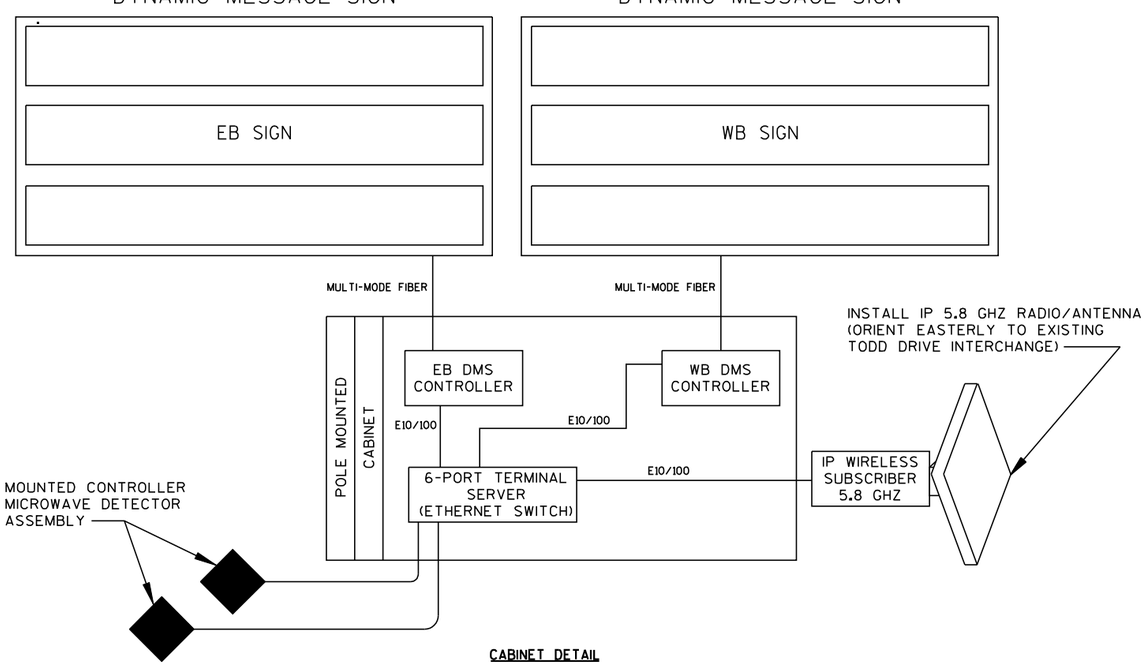


CABINET DETAIL

PCMS-01-1038 - SPRING ROSE CIRCLE
PCMS-01-1039 - LOCUST DRIVE
PCMS-01-1040 - GRANDVIEW ROAD
PCMS-01-1041 - MINERAL POINT ROAD

DYNAMIC MESSAGE SIGN

DYNAMIC MESSAGE SIGN

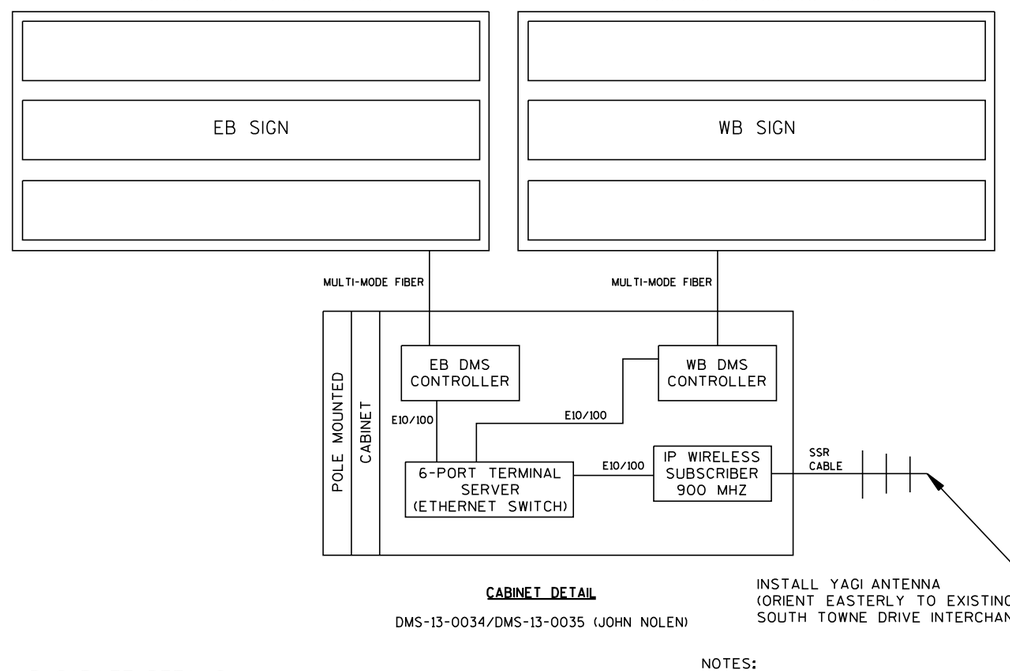


CABINET DETAIL

DMS-13-0032/DMS-13-0033 (TODD DRIVE)

DYNAMIC MESSAGE SIGN

DYNAMIC MESSAGE SIGN

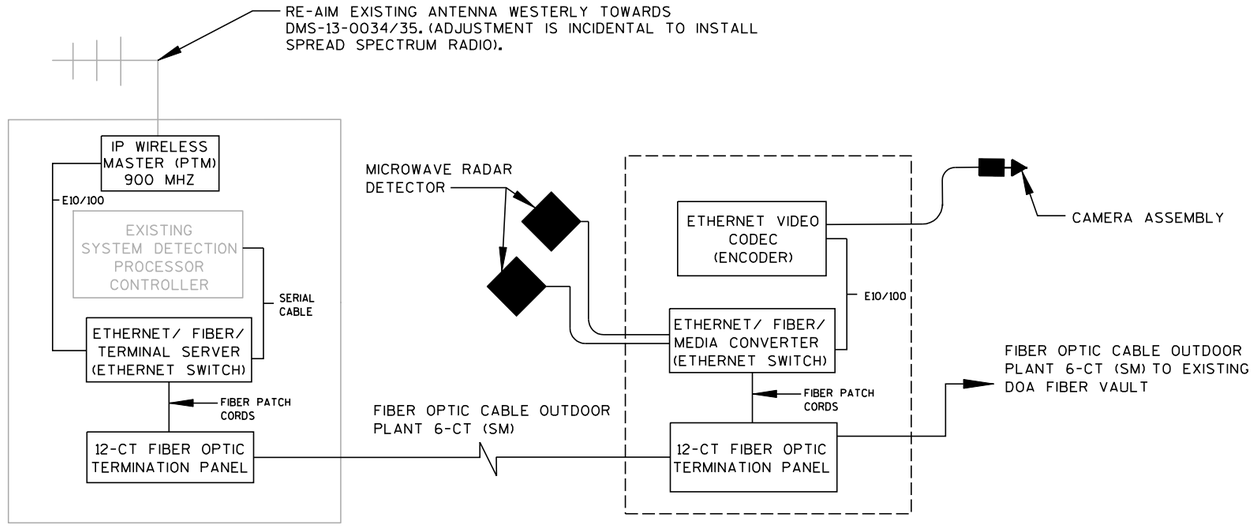


CABINET DETAIL

DMS-13-0034/DMS-13-0035 (JOHN NOLEN)

DMS & PCMS COMMUNICATION AND CABINET DETAILS

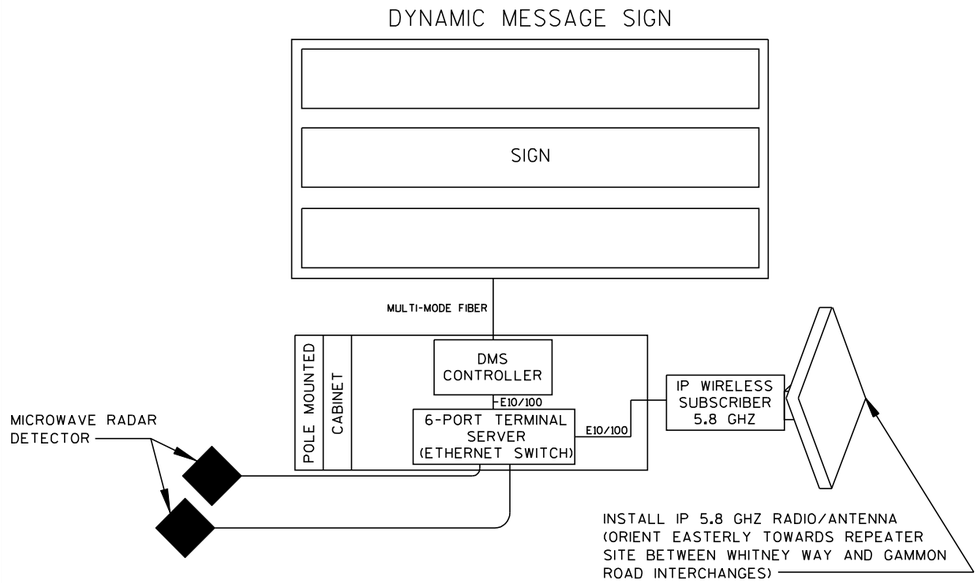
NOTES:
ALL RS 232/422/485 SERIAL AND E10/100 (ETHERNET) CABLES ARE INCIDENTAL TO BID ITEMS.



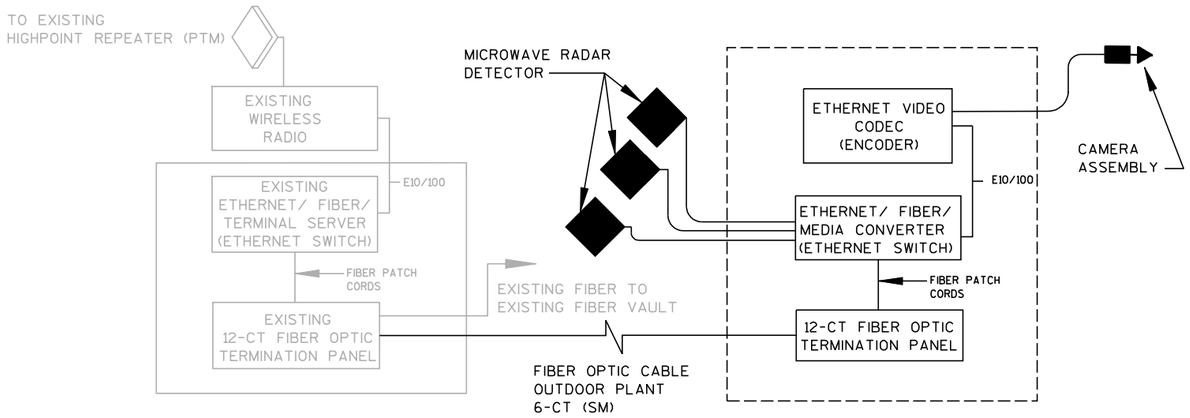
EXISTING CABINET DETAIL
SDS-13-0012 (SOUTH TOWNE DRIVE)

CCTV POLE MOUNTED CABINET DETAIL
CCTV-13-0062 (SOUTH TOWNE DRIVE)

SOUTH TOWNE INTERCHANGE



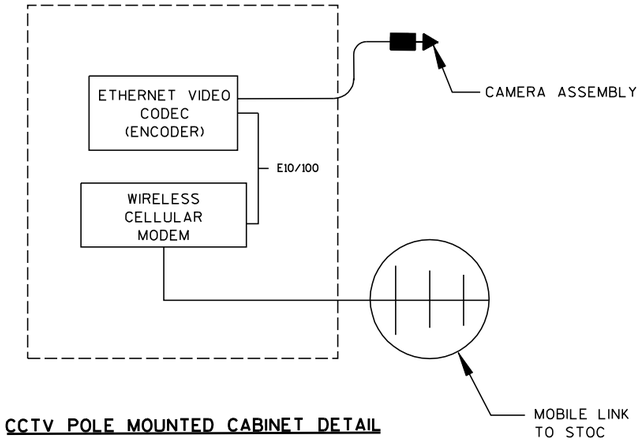
CABINET DETAIL
DMS-13-0031 (OVERHEAD W/MOUNTED CABINET) - GAMMON ROAD



EXISTING REPEATER CABINET DETAIL
JOHN NOLEN REPEATER

CCTV POLE MOUNTED CABINET DETAIL
CCTV-13-0061 (JOHN NOLEN DRIVE)

JOHN NOLEN DRIVE INTERCHANGE



CCTV POLE MOUNTED CABINET DETAIL
CCTV-13-0063 (CTH PD/VERONA ROAD)

NOTES

FPD = FREQUENCY POWER DIVIDER
SSR = SPREAD SPECTRUM RADIO
PTM = POINT-TO-MULTIPOINT

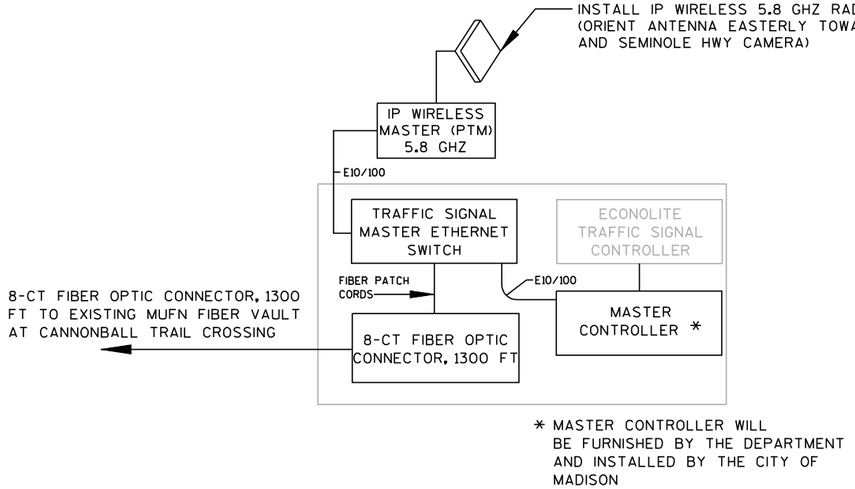
ALL RS 232/485, FIBER PATCH CORDS AND E10/100 (ETHERNET) CABLES ARE INCIDENTAL TO BID ITEMS.

ALL FIBER OPTIC ON THIS PROJECT IS SINGLE-MODE FIBER (SM) UNLESS OTHERWISE NOTED.

CABINETS ARE DEPARTMENT FURNISHED

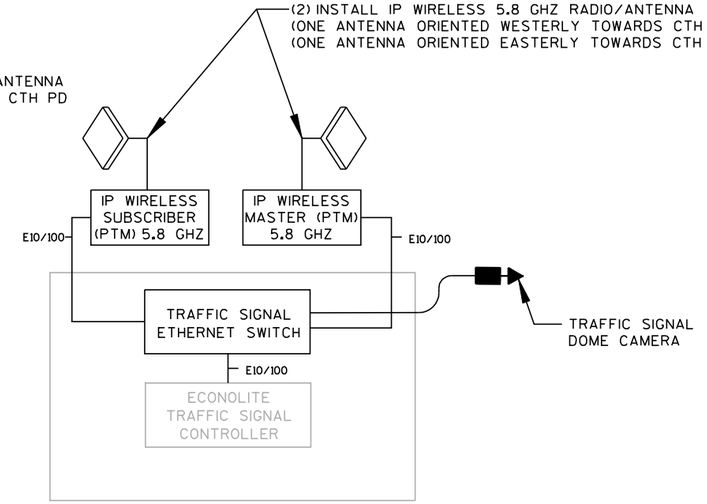
CCTV COMMUNICATION AND CABINET DETAILS

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021404_fm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



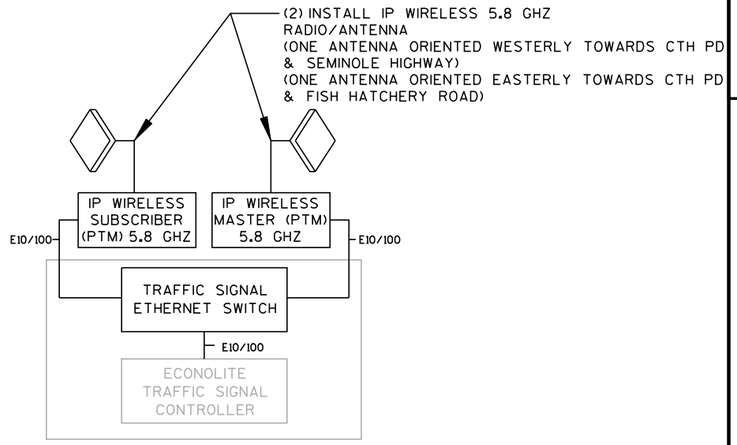
EXISTING TRAFFIC SIGNAL CABINET DETAIL

FIBER OPTIC TO WIRELESS (CTH PD & COMMERCE PARK DRIVE)



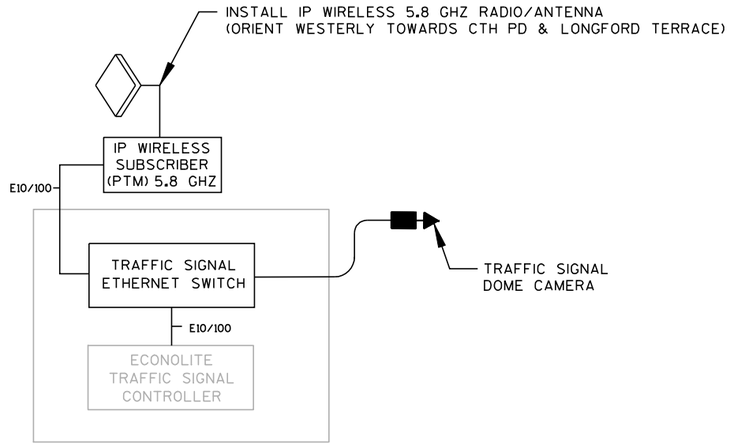
EXISTING TRAFFIC SIGNAL CABINET DETAIL

CAMERA 1 (CTH PD & SEMINOLE HWY)



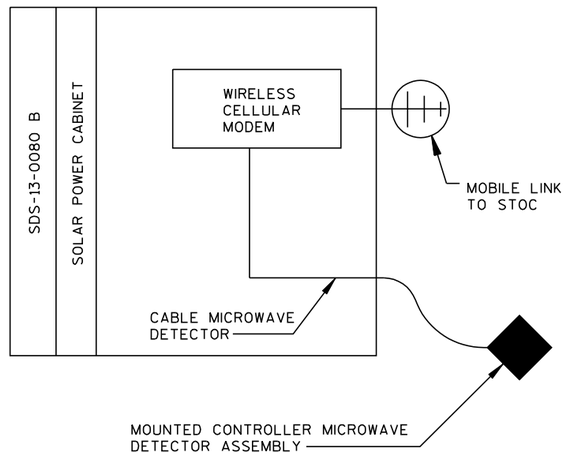
EXISTING TRAFFIC SIGNAL CABINET DETAIL

REPEATER SITE 1 (CTH PD & LONGFORD TERRACE)



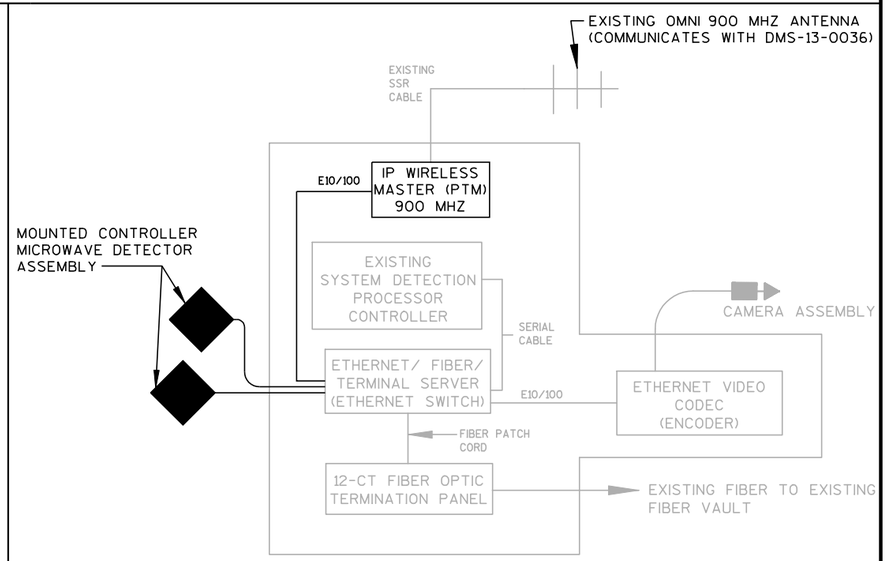
EXISTING TRAFFIC SIGNAL CABINET DETAIL

CAMERA 2 (CTH PD & FISH HATCHERY ROAD)



SOLAR POWER CABINET DETAIL

SDS-13-0080 B



EXISTING CABINET DETAIL

CCTV-13-0010 (STOUGHTON ROAD)

NOTES

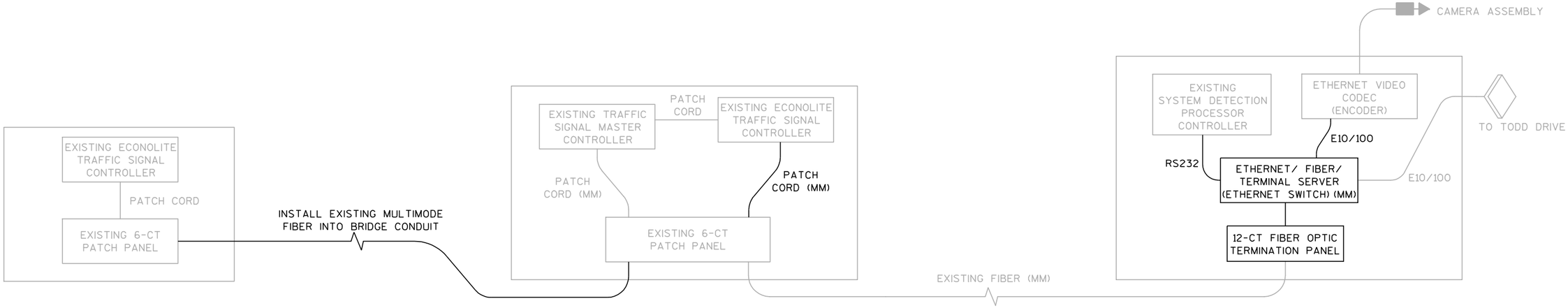
FPD = FREQUENCY POWER DIVIDER
SSR = SPREAD SPECTRUM RADIO
PTM = POINT-TO-MULTIPOINT

ALL RS 232/485, FIBER PATCH CORDS AND E10/100 (ETHERNET) CABLES ARE INCIDENTAL TO BID ITEMS.

ALL FIBER OPTIC ON THIS PROJECT IS SINGLE-MODE FIBER (SM) UNLESS OTHERWISE NOTED.

CABINETS ARE DEPARTMENT FURNISHED

CCTV COMMUNICATION AND CABINET DETAILS



EXISTING TRAFFIC SIGNAL CABINET DETAIL
(SEMINOLE HWY & WARWICK WAY)

EXISTING TRAFFIC SIGNAL CABINET DETAIL
(SEMINOLE HWY & W. BELTLINE FRONTAGE ROAD)

ITS CABINET DETAIL
(SEMINOLE HWY & W. BELTLINE FRONTAGE ROAD)

NOTES

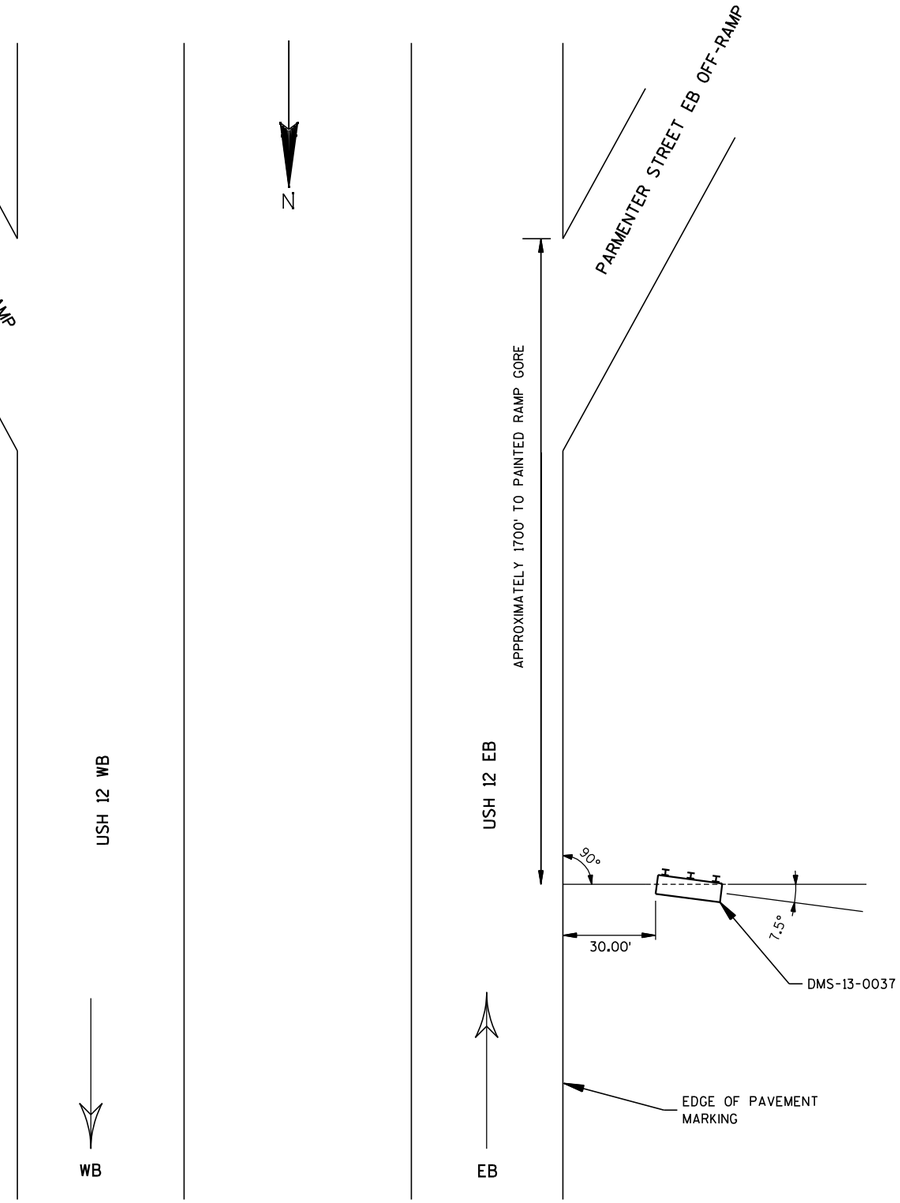
FPD = FREQUENCY POWER DIVIDER
SSR = SPREAD SPECTRUM RADIO
PTM = POINT-TO-MULTIPOINT

ALL RS 232/485, FIBER PATCH CORDS AND E10/100 (ETHERNET) CABLES ARE INCIDENTAL TO BID ITEMS.

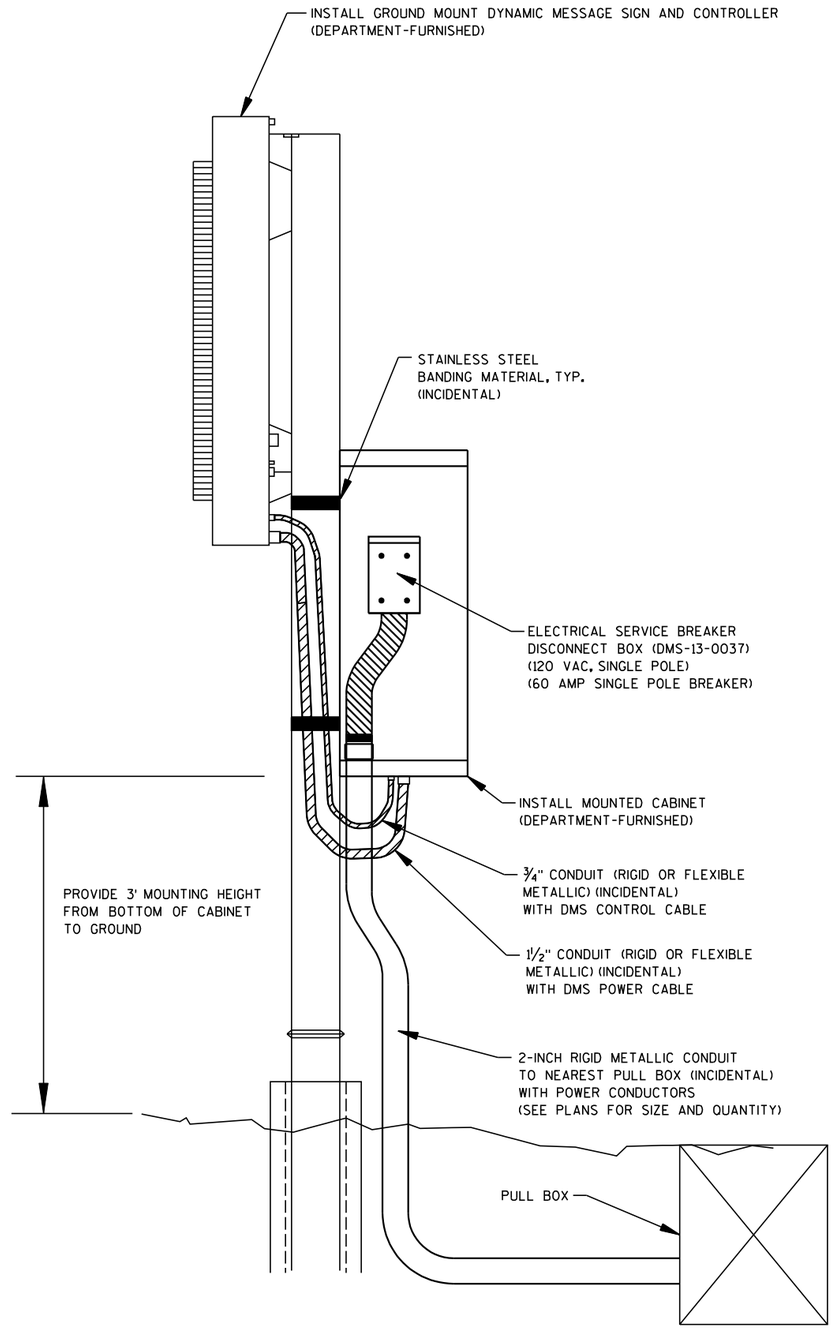
ALL FIBER OPTIC ON THIS PROJECT IS SINGLE-MODE FIBER (SM), UNLESS OTHERWISE NOTED.

CABINETS ARE DEPARTMENT FURNISHED

NOT TO SCALE



PLAN VIEW



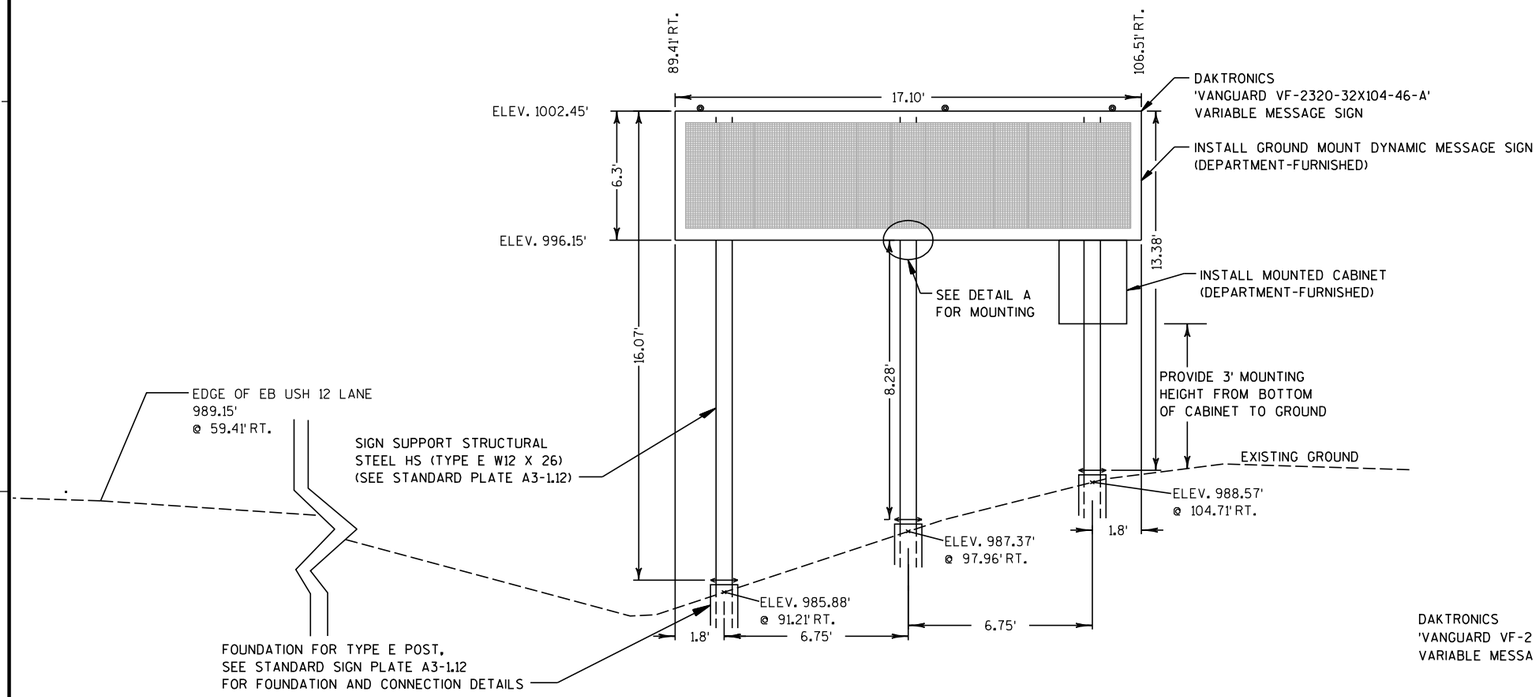
SECTION VIEW

DMS-13-0037

EB USH 12 DMS (PARMENTER STREET) INSTALLATION DETAIL

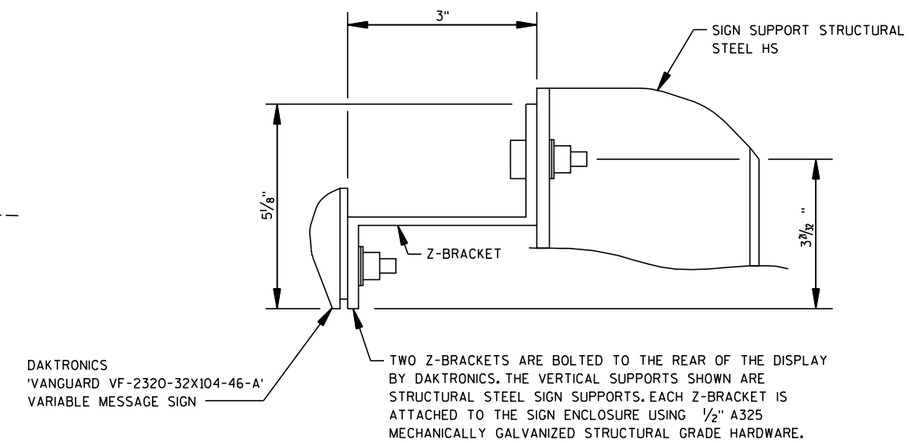
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS CONSTRUCTION DETAILS (DMS-13-0037)	SHEET 171 E

2



ELEVATION VIEW

STA. 654+50 'AP'

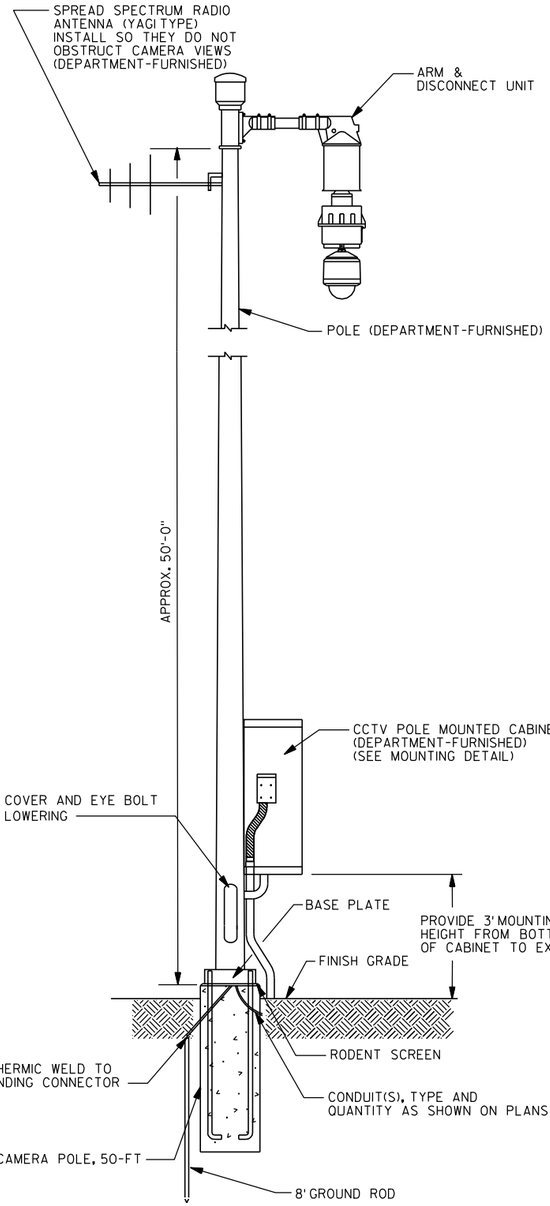


DETAIL A

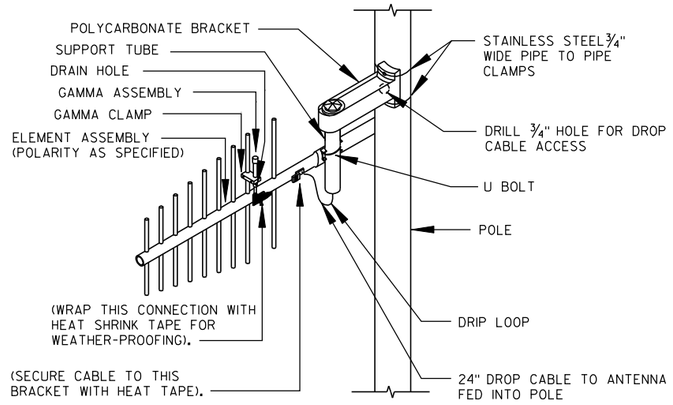
SIGN ATTACHMENT

DMS-13-0037

EB USH 12 DMS INSTALLATION DETAIL

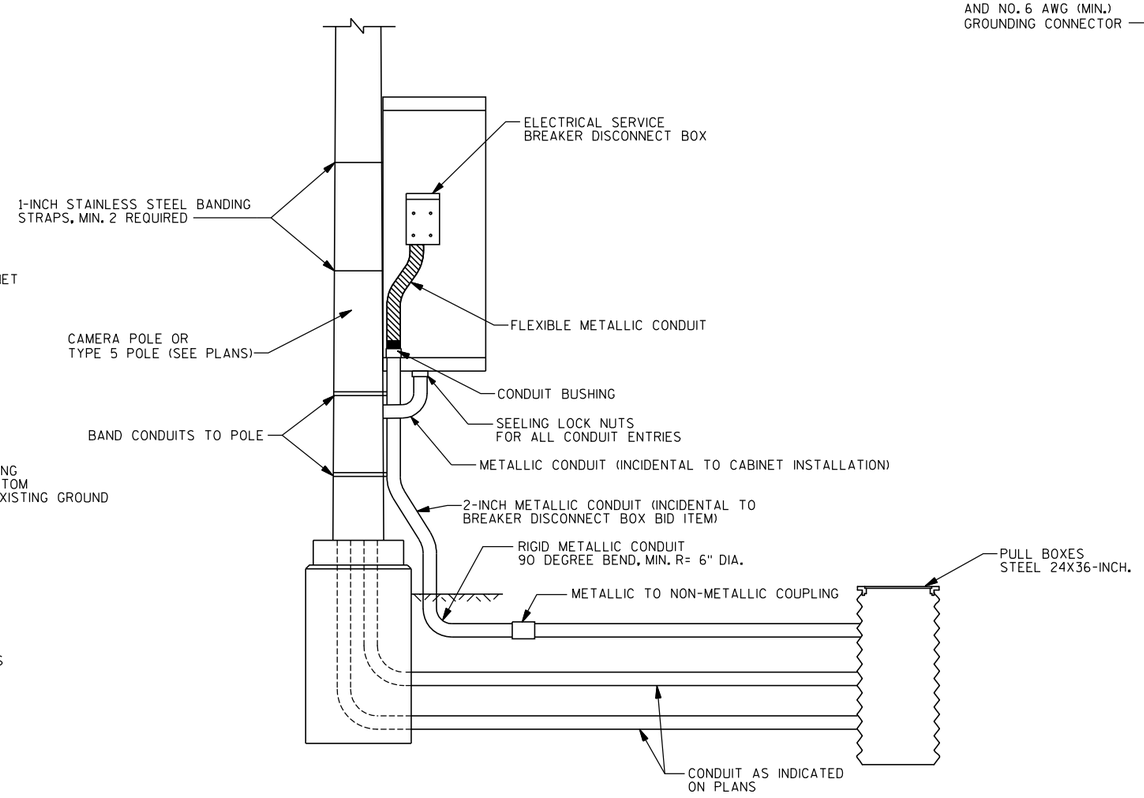


CAMERA POLE, WITH CAMERA LOWERING HARDWARE

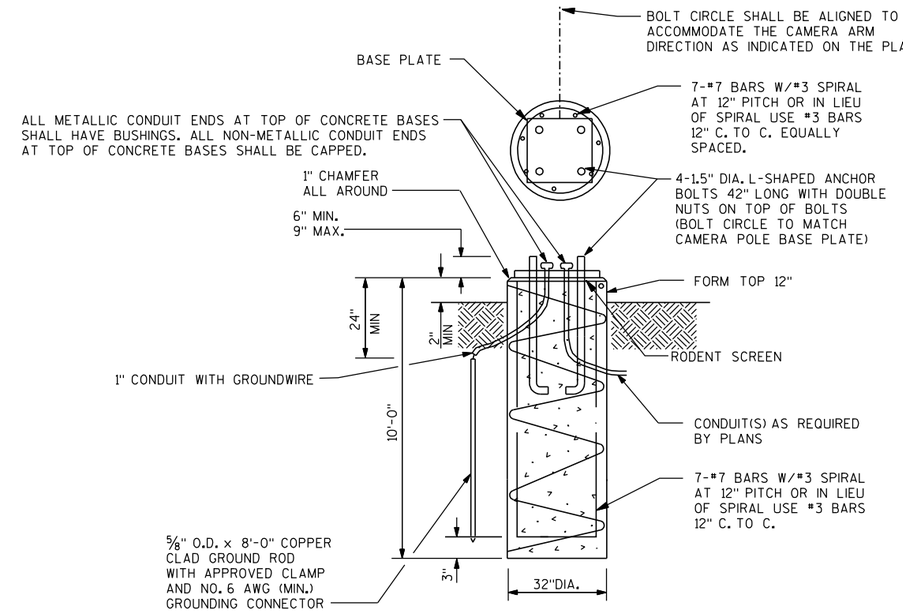


INSTALL YAGI ANTENNA

(NOT TO SCALE)



INSTALL MOUNTED CABINET (CCTV POLE MOUNTED CABINET)

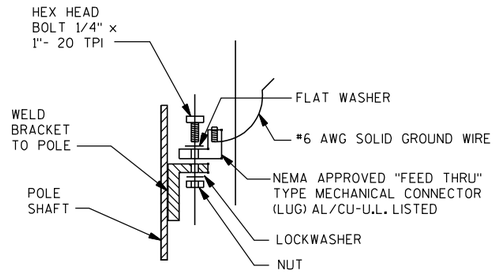


MATERIALS DATA

CONCRETE	f'c=3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 psi

BASE CAMERA POLE, 50-FT

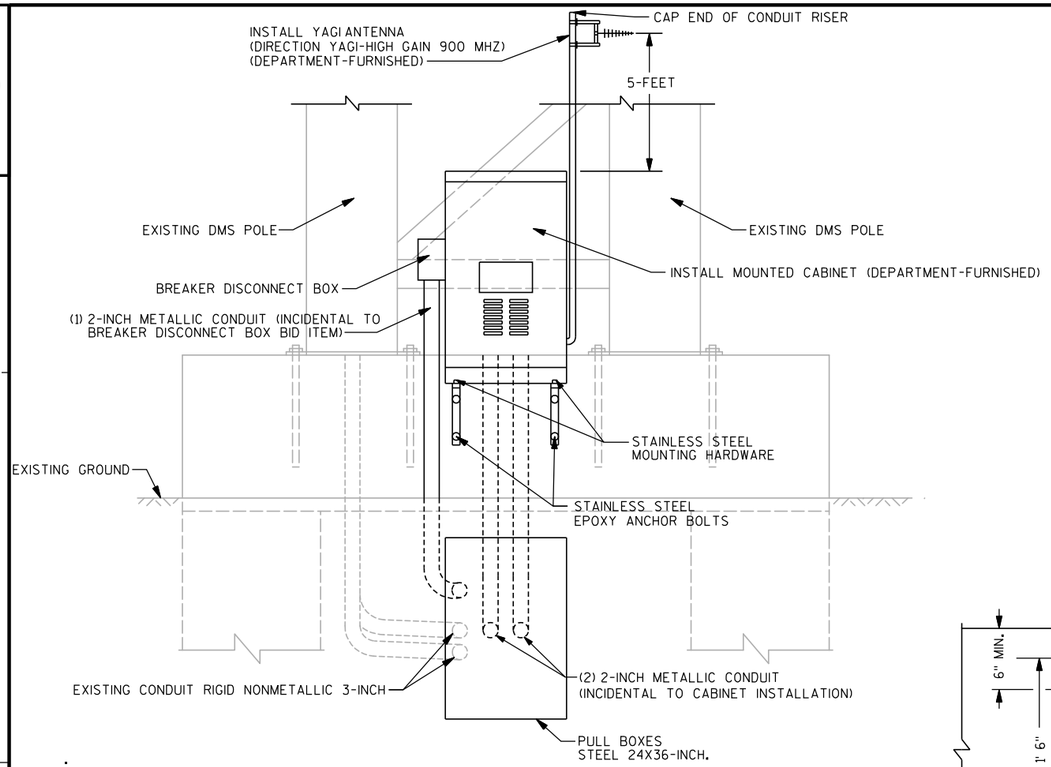
NOT TO SCALE

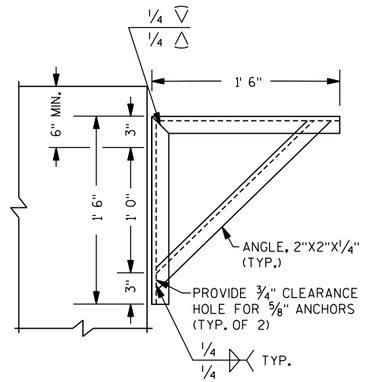


FIELD INSTALLED GROUNDING LUG

NOTES

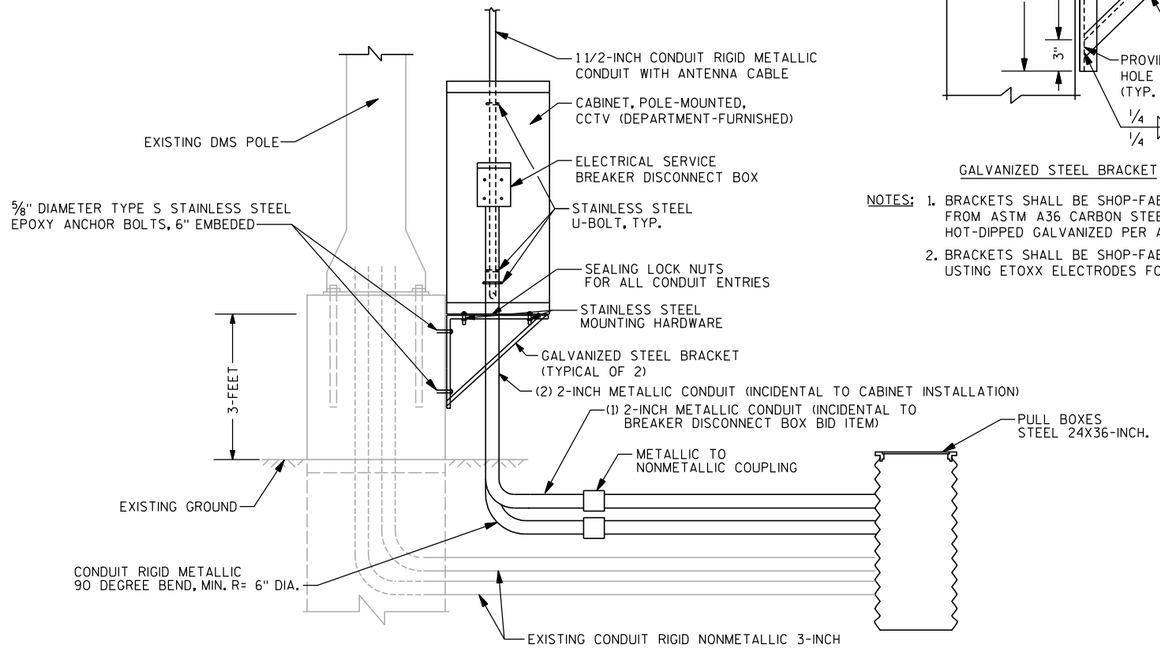
1. ALL HARDWARE AND FASTENERS SHALL BE STAINLESS STEEL
2. POLE DRAWINGS SHOWN FOR BIDDING INFORMATION PURPOSES ONLY. POLES WILL BE DEPARTMENT FURNISHED. BASE CAMERA POLE, 50-FEET TO BE CONSTRUCTED PER SECTION 672 OR THE STANDARD SPECIFICATIONS.
3. CONTRACTOR SHALL CONFIRM BOLT PATTERN OF CAMERA POLE PRIOR TO CONSTRUCTION OF CONCRETE BASE.
4. CONTRACTOR SHALL INSTALL GROUNDING LUG AS SHOWN





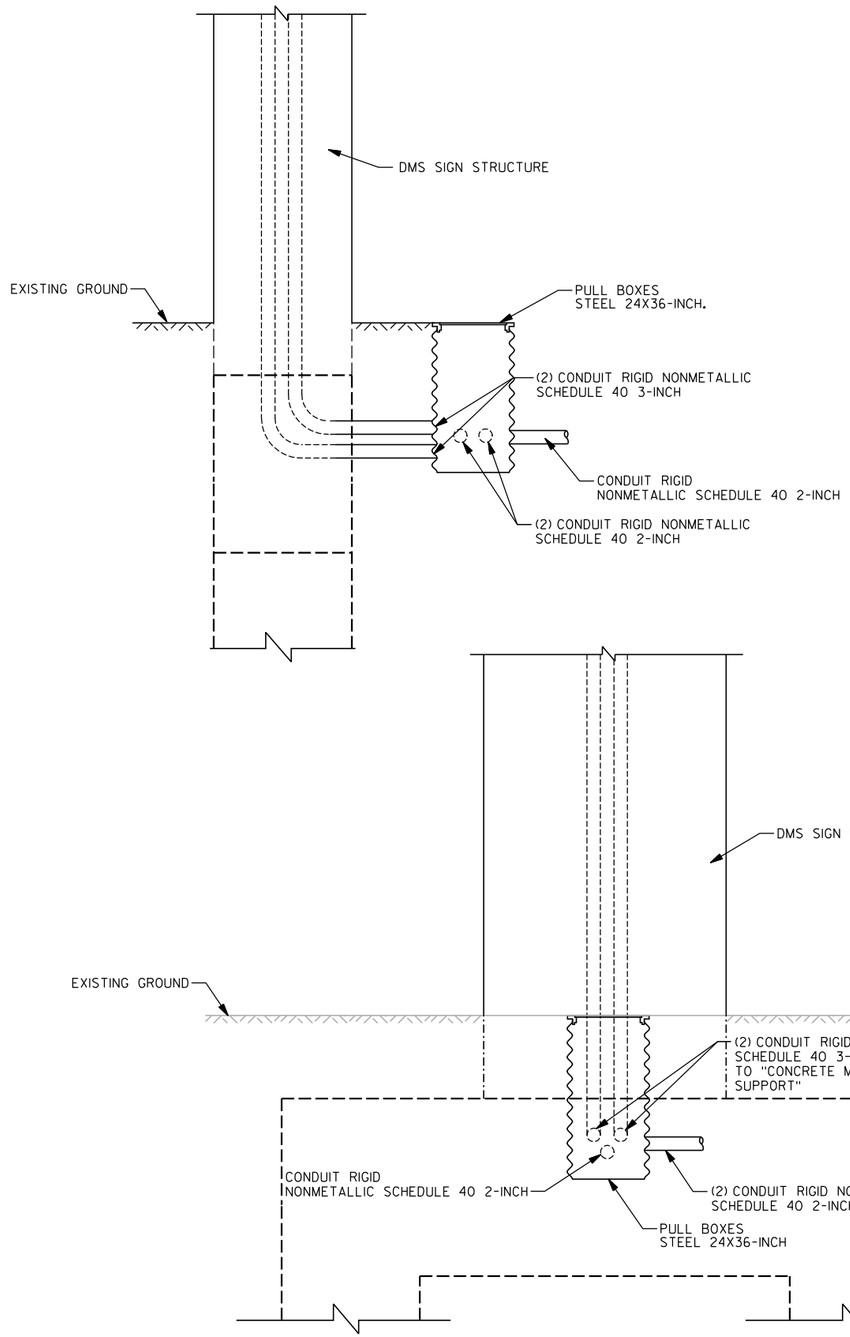
GALVANIZED STEEL BRACKET

NOTES:
1. BRACKETS SHALL BE SHOP-FABRICATED FROM ASTM A36 CARBON STEEL AND HOT-DIPPED GALVANIZED PER ASTM A123.
2. BRACKETS SHALL BE SHOP-FABRICATED USTING ETOXX ELECTRODES FOR WELDS.



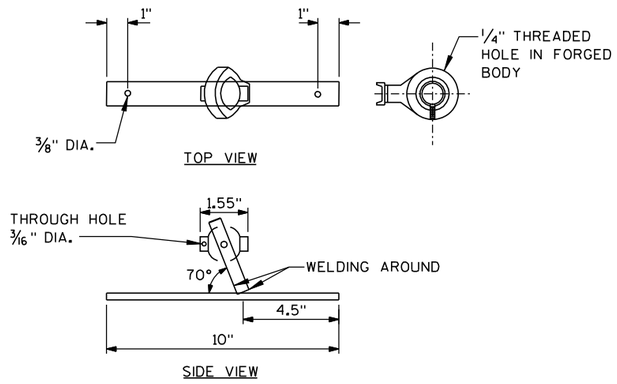
INSTALL MOUNTED CABINET

DMS-13-0036 (AGRICULTURE DRIVE)



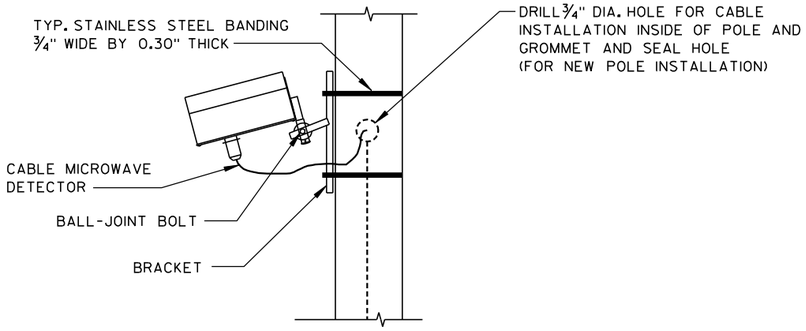
GAMMON ROAD DMS STRUCTURE CONDUIT DETAIL

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS CONSTRUCTION DETAILS	SHEET 174 E



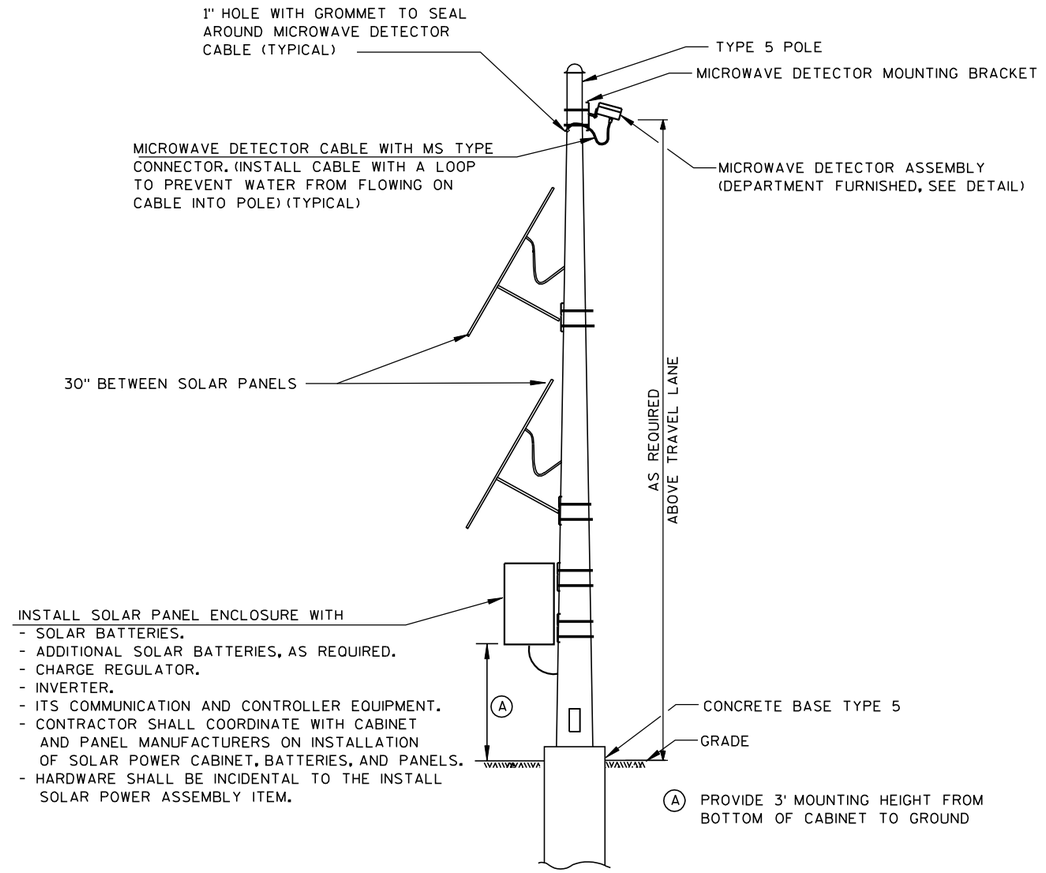
MICROWAVE DETECTOR MOUNTING BRACKET DETAIL

(NOT TO SCALE)



TYPICAL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY INSTALLATION DETAIL

(NOT TO SCALE)



MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY INSTALLATION

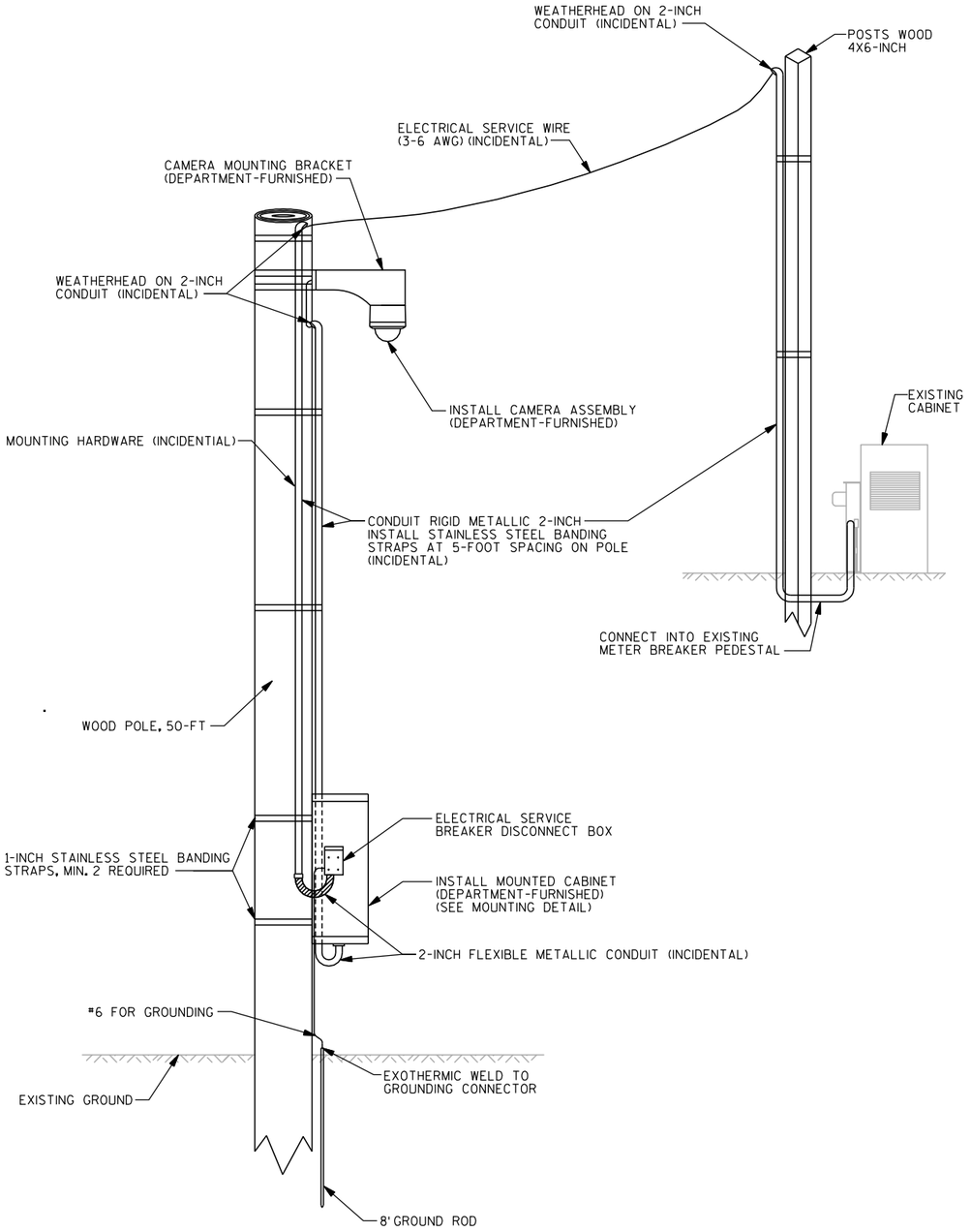
(NOT TO SCALE)

NOTES

ALL RS 232/485, FIBER PATCH CORDS AND CAT 5 (ETHERNET) CABLES ARE INCIDENTAL TO BID ITEMS.

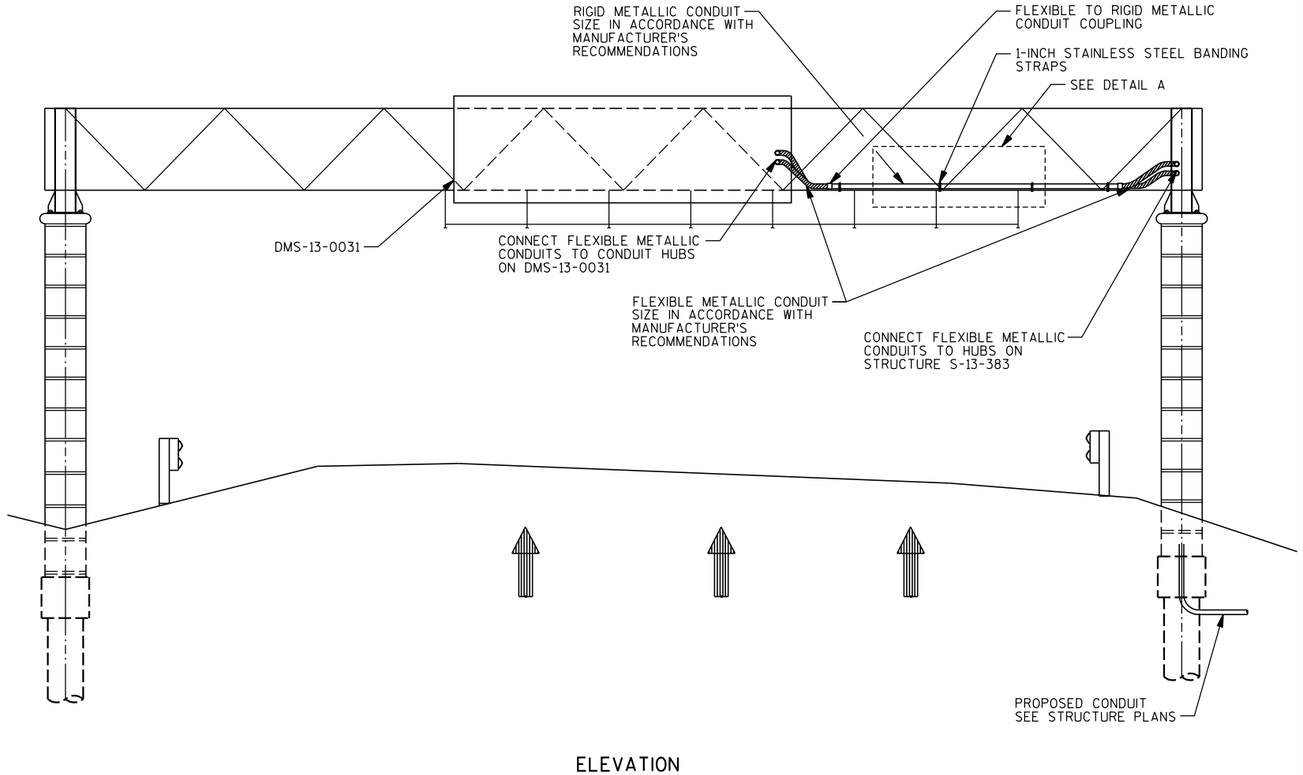
ALL FIBER OPTIC ON THIS PROJECT IS SINGLE-MODE FIBER (SM)

CABINETS ARE DEPARTMENT FURNISHED

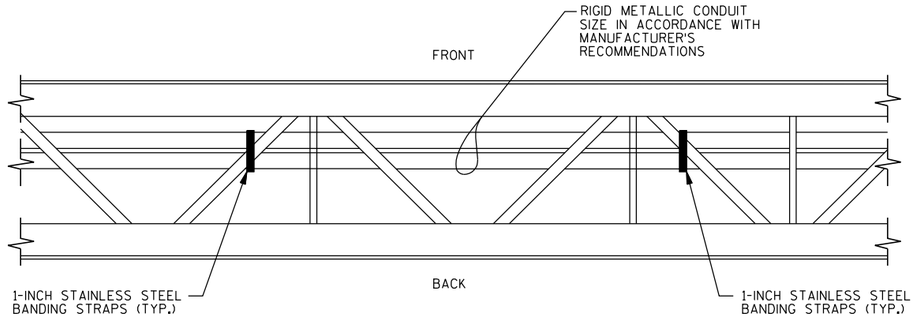


50-FT WOOD POLE WITH SERVICE

US 18/151 AND CTH PD



ELEVATION



DETAIL A - BOTTOM VIEW

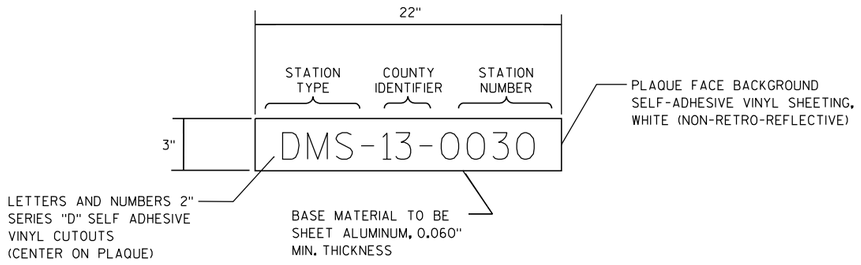
NOTE: 1-INCH STAINLESS STEEL BANDING STRAPS NEEDED AT FLEXIBLE TO RIGID METALLIC CONDUIT COUPLINGS

OVERHEAD FREEWAY DMS CONDUIT DETAIL

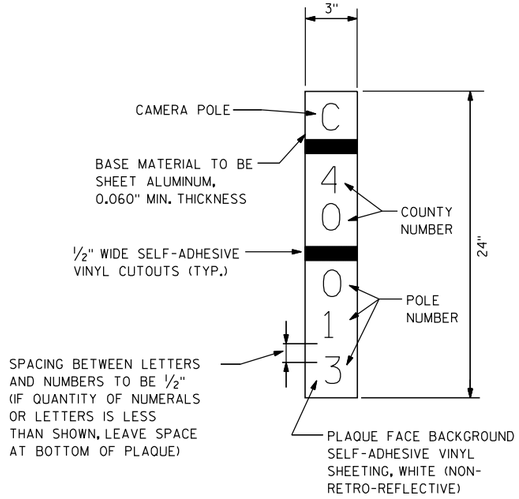
(TYP. OF DMS-13-0031. ALSO APPLIES TO DMS-13-0032/0033, DMS-13-0034/35, AND DMS-13-0036)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS CONSTRUCTION DETAILS	SHEET E

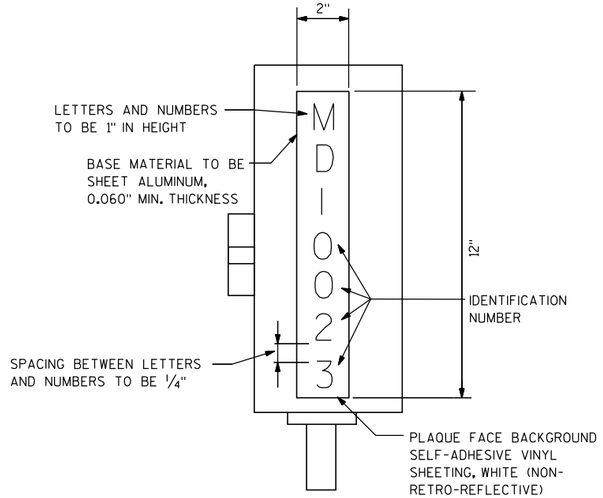
FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021409a_fm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



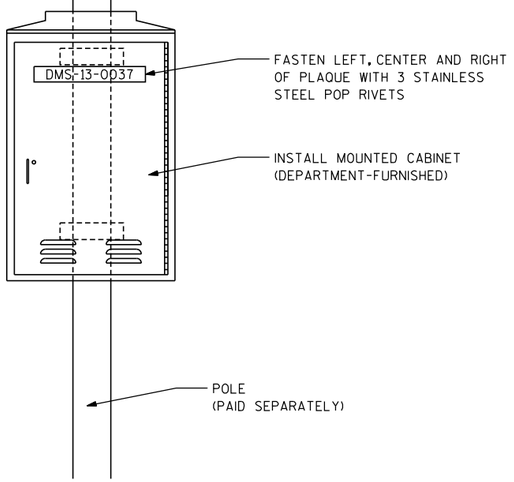
CONTROL CABINET IDENTIFICATION PLAQUE DETAIL

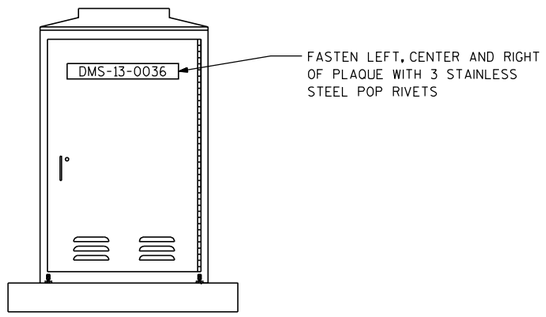


CAMERA POLE IDENTIFICATION PLAQUE DETAIL



MICROWAVE DETECTOR FIELD
CABINET IDENTIFICATION PLAQUE DETAIL





CONTROL CABINET IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS

(TYPICAL ALL CONTROL CABINETS)

PLAQUES SEQUENCE IDENTIFICATION

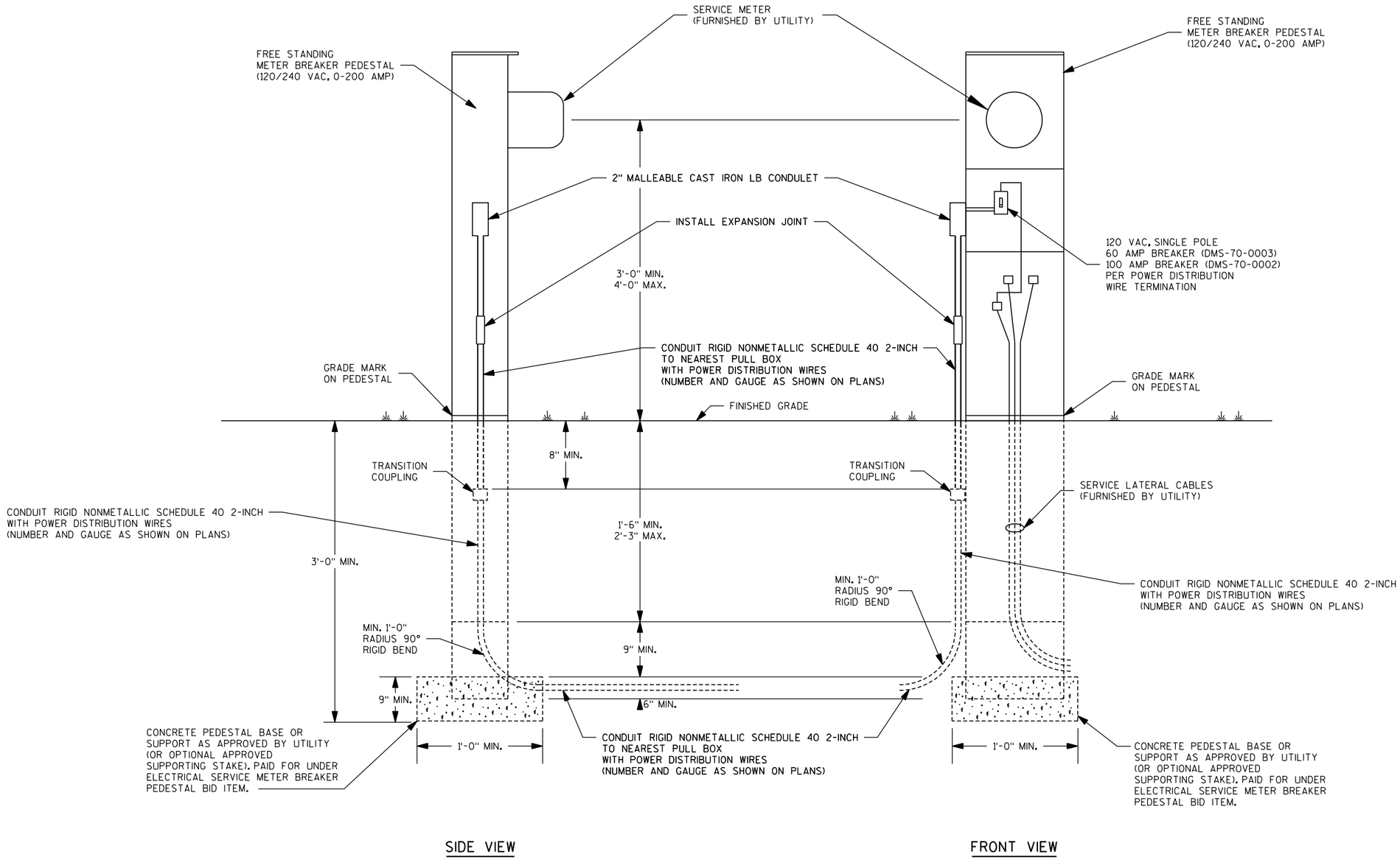
LEGEND STATION TYPE

RM - RAMP METER
CCTV - CLOSED CIRCUIT TELEVISION
ATR - AUTOMATIC TRAFFIC RECORDER
SDS - SYSTEM DETECTOR STATION
MD - MICROWAVE DETECTOR
DMS - DYNAMIC MESSAGE SIGN

CONTROL CABINET NOTES

1) TWO PLAQUES PER CABINET REQUIRED ON CONTROL CABINET.
2) FASTEN ONE PLAQUE ON FRONT DOOR, UPPER HALF.
3) FASTEN ONE PLAQUE ON SIDE FACING LOCAL STREET. IF NO LOCAL STREET NEARBY, OR IF SUCH LOCATION COINCIDES WITH LOCATION OF PLAQUE IN NOTE 2, FASTEN PLAQUE ON REAR OF CABINET, UPPER HALF.
4) COUNTY NUMBER NOT REQUIRED ON RAMP METER CABINETS.

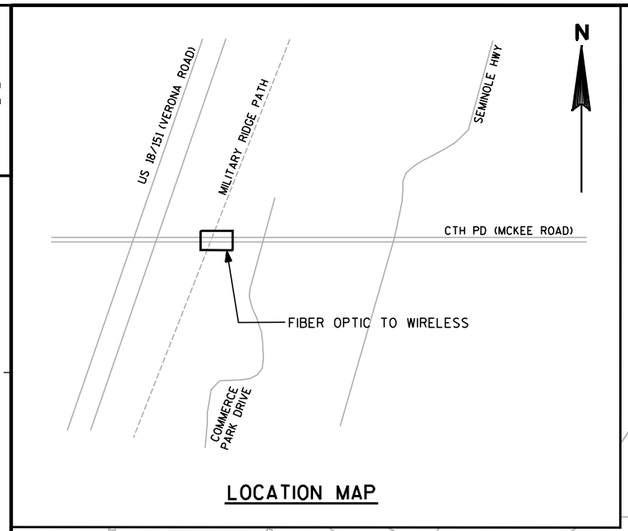
NOT TO SCALE



SIDE VIEW

FRONT VIEW

ELECTRICAL SERVICE METER BREAKER PEDESTAL



LOCATION MAP

2

2

N

MILITARY RIDGE PATH

CTH PD (MCKEE ROAD)

EXISTING R/W

B-13-666

EXCV-1

INSTALL CONDUIT INTO EXISTING ITEM
(8) FIBER OPTIC SPLICE
(1) FIBER OPTIC SPLICE ENCLOSURE
SPLICE 8-COUNT FIBER OPTIC CONNECTOR INTO EXISTING MUFN FIBER

INSTALL CONDUIT SPECIAL 2-INCH
(1) 8-COUNT FIBER OPTIC CONNECTOR 1300-FT

INSTALL IN EXISTING CONDUIT
(1) 8-COUNT FIBER OPTIC CONNECTOR 1300-FT

EXPB01

EXISTING R/W

INSTALL CONDUIT INTO EXISTING ITEM

CONNECT 8-COUNT FIBER OPTIC CONNECTOR 1300-FT TO COMMERCE PARK DRIVE TRAFFIC SIGNAL CABINET

STANDARD ABBREVIATIONS

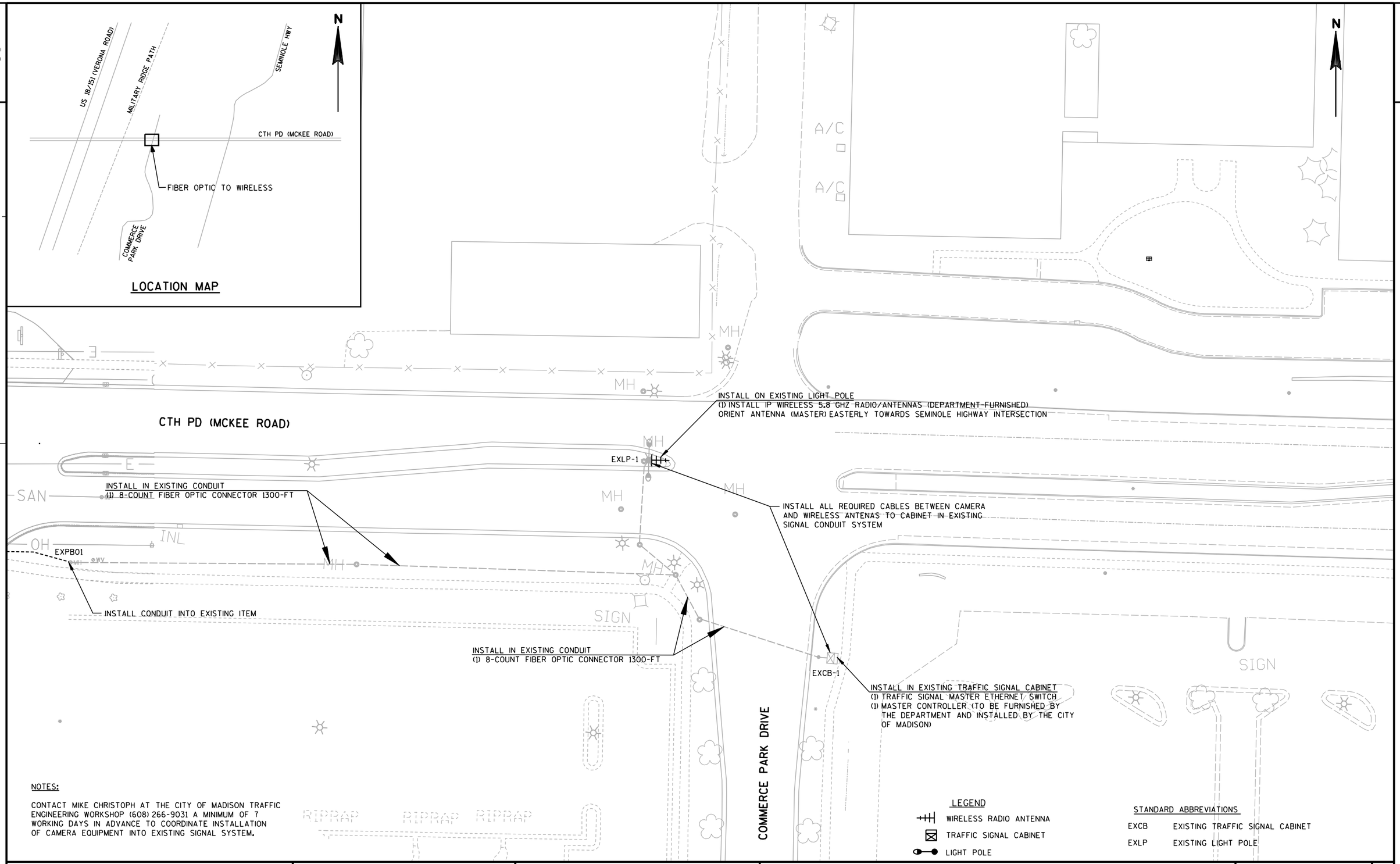
EXCV	EXISTING COMMUNICATIONS VAULT
EXPB	EXISTING PULL BOX

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - CTH PD CAMERA SYSTEM	SHEET 179 E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021420_fm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

LOCATION MAP



NOTES:

CONTACT MIKE CHRISTOPH AT THE CITY OF MADISON TRAFFIC ENGINEERING WORKSHOP (608) 266-9031 A MINIMUM OF 7 WORKING DAYS IN ADVANCE TO COORDINATE INSTALLATION OF CAMERA EQUIPMENT INTO EXISTING SIGNAL SYSTEM.

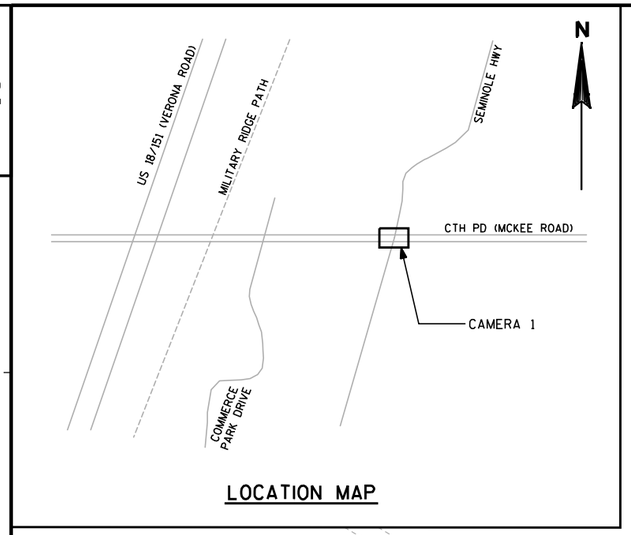
LEGEND

- WIRELESS RADIO ANTENNA
- TRAFFIC SIGNAL CABINET
- LIGHT POLE

STANDARD ABBREVIATIONS

EXCB	EXISTING TRAFFIC SIGNAL CABINET
EXLP	EXISTING LIGHT POLE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - CTH PD CAMERA SYSTEM	SHEET 180 E



LOCATION MAP

SEMINOLE HIGHWAY

CTH PD (MCKEE ROAD)

CAMERA ARM ALIGNMENT

EXLP-3

INSTALL ON EXISTING LIGHT POLE
(1) TRAFFIC SIGNAL DOME CAMERA

EXLP-2

INSTALL ON EXISTING LIGHT POLE
(2) INSTALL IP WIRELESS 5.8 GHZ RADIO/ANTENNA (DEPARTMENT-FURNISHED)
ORIENT ONE ANTENNA (SUBSCRIBER) WESTERLY TOWARDS COMMERCE PARK DRIVE INTERSECTION
ORIENT ONE ANTENNA (MASTER) EASTERLY TOWARDS LONGFORD TERRACE INTERSECTION

INSTALL ALL REQUIRED CABLES BETWEEN CAMERA AND WIRELESS ANTENAS TO CABINET IN EXISTING SIGNAL CONDUIT SYSTEM

EXCB-2

INSTALL IN EXISTING TRAFFIC SIGNAL CABINET
(1) TRAFFIC SIGNAL ETHERNET SWITCH

NOTES:

CONTACT MIKE CHRISTOPH AT THE CITY OF MADISON TRAFFIC ENGINEERING WORKSHOP (608) 206-9031 A MINIMUM OF 7 WORKING DAYS IN ADVANCE TO COORDINATE INSTALLATION OF CAMERA EQUIPMENT INTO EXISTING SIGNAL SYSTEM.

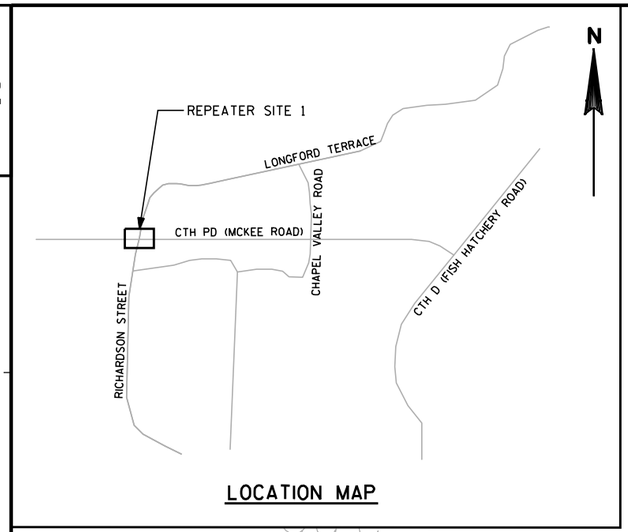
STANDARD ABBREVIATIONS

EXCB	EXISTING TRAFFIC SIGNAL CABINET
EXLP	EXISTING LIGHT POLE

LEGEND

- CAMERA ASSEMBLY
- WIRELESS RADIO ANTENNA
- TRAFFIC SIGNAL CABINET
- LIGHT POLE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - CTH PD CAMERA SYSTEM	SHEET 181 E



LOCATION MAP

LONGFORD TERRACE

N

CTH PD (MCKEE ROAD)

EXLP-4

INSTALL ALL REQUIRED CABLES BETWEEN WIRELESS ANTENNAS TO CABINET IN EXISTING SIGNAL CONDUIT SYSTEM

INSTALL ON EXISTING LIGHT POLE
(2) INSTALL IP WIRELESS 5.8 GHZ RADIO/ANTENNAS (DEPARTMENT-FURNISHED)
ORIENT ONE ANTENNA (SUBSCRIBER) WESTERLY TOWARDS SEMINOLE HIGHWAY INTERSECTION (CAMERA 1)
OREINT ONE ANTENNA (MASTER) EASTERLY TOWARDS TOWARDS FISH HATCHERY ROAD INTERSECTION (CAMERA 2)

EXCB-3

INSTALL IN EXISTING TRAFFIC SIGNAL CABINET
(1) TRAFFIC SIGNAL ETHERNET SWITCH

RICHARDSON STREET

NOTES:

CONTACT MIKE CHRISTOPH AT THE CITY OF MADISON TRAFFIC ENGINEERING WORKSHOP (608) 206-9031 A MINIMUM OF 7 WORKING DAYS IN ADVANCE TO COORDINATE INSTALLATION OF CAMERA EQUIPMENT INTO EXISTING SIGNAL SYSTEM.

STANDARD ABBREVIATIONS

EXCB	EXISTING TRAFFIC SIGNAL CABINET
EXLP	EXISTING LIGHT POLE

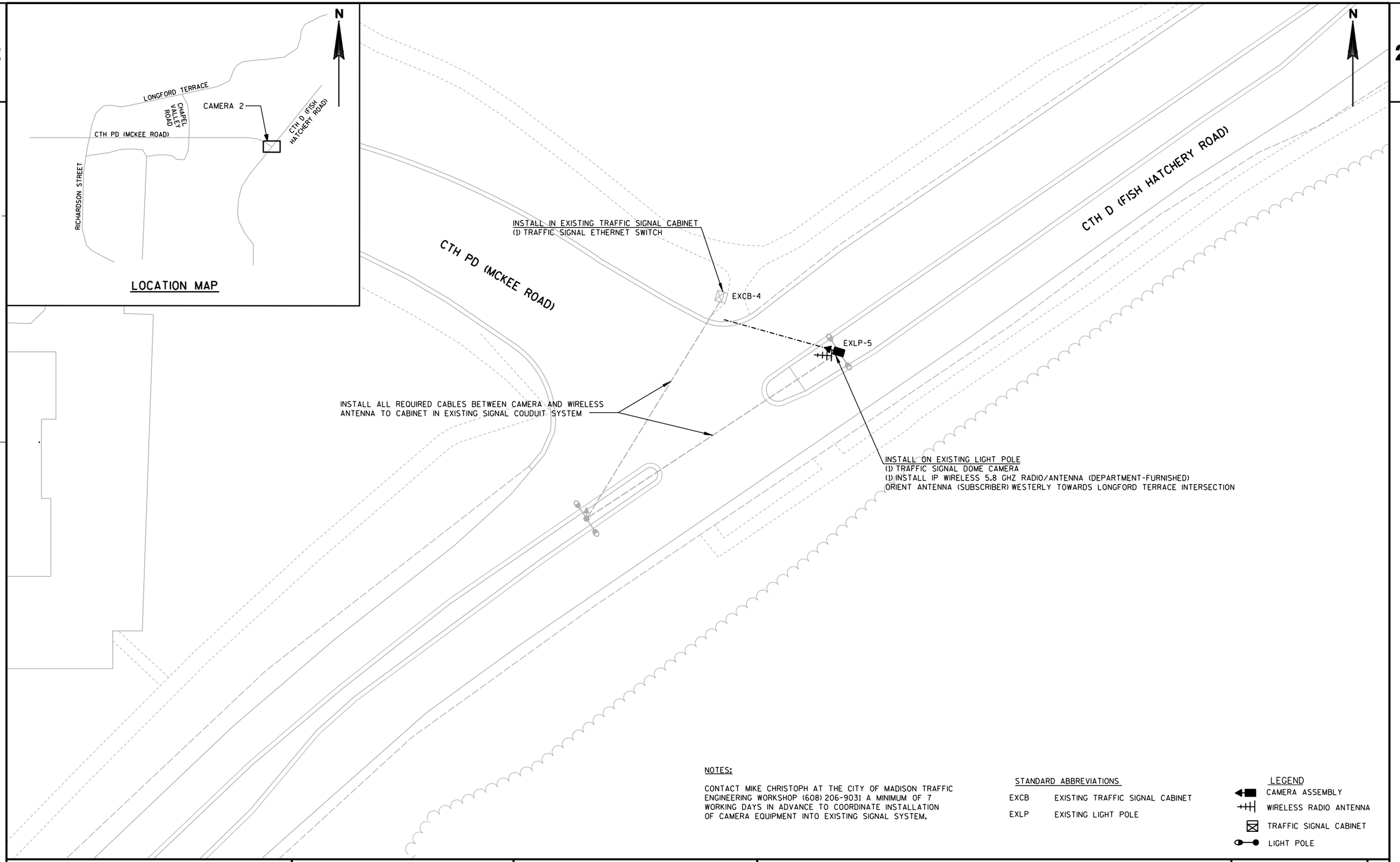
LEGEND

- WIRELESS RADIO ANTENNA
- TRAFFIC SIGNAL CABINET
- LIGHT POLE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - CTH PD CAMERA SYSTEM	SHEET 182 E

2

LOCATION MAP



NOTES:

CONTACT MIKE CHRISTOPH AT THE CITY OF MADISON TRAFFIC ENGINEERING WORKSHOP (608) 206-9031 A MINIMUM OF 7 WORKING DAYS IN ADVANCE TO COORDINATE INSTALLATION OF CAMERA EQUIPMENT INTO EXISTING SIGNAL SYSTEM.

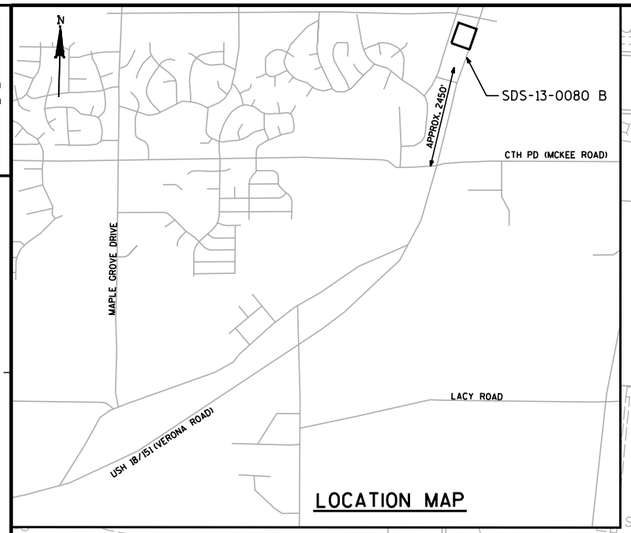
STANDARD ABBREVIATIONS

EXCB	EXISTING TRAFFIC SIGNAL CABINET
EXLP	EXISTING LIGHT POLE

LEGEND

- CAMERA ASSEMBLY
- WIRELESS RADIO ANTENNA
- TRAFFIC SIGNAL CABINET
- LIGHT POLE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - CTH PD CAMERA SYSTEM	SHEET 183 E



LOCATION MAP

SDS-13-0080 B
INSTALL ON EXISTING CONCRETE BASE
(1) POLES TYPE 5-ALUMINUM
(1) TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE
(1) INSTALL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY (DEPARTMENT-FURNISHED)
(2) PLAQUES SEQUENCE IDENTIFICATION
(1) INSTALL SOLAR PANEL ASSEMBLY (DEPARTMENT-FURNISHED)
(1) INSTALL CELLULAR MODEM (DEPARTMENT-FURNISHED)
60 LF CABLE MICROWAVE DETECTOR (SUPPLIED WITH DEPARTMENT-FURNISHED MICROWAVE RADAR ASSEMBLY)

MD80-01

ANTON DR

CARRIAGE ST.

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

VERONA RD FRONTAGE

WILLIAMSBURG WAY

MD80-01 COORDINATES	
N	E
463,636.18	798,134.84

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTUCTION STAKING ELECTRICAL LOCATIONS

LEGEND
- POLES TYPE 5-ALUMINUM
- MICROWAVE DETECTOR ASSEMBLY
- MICROWAVE DETECTION ZONE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - SDS-13-0080 B	SHEET 184 E

2

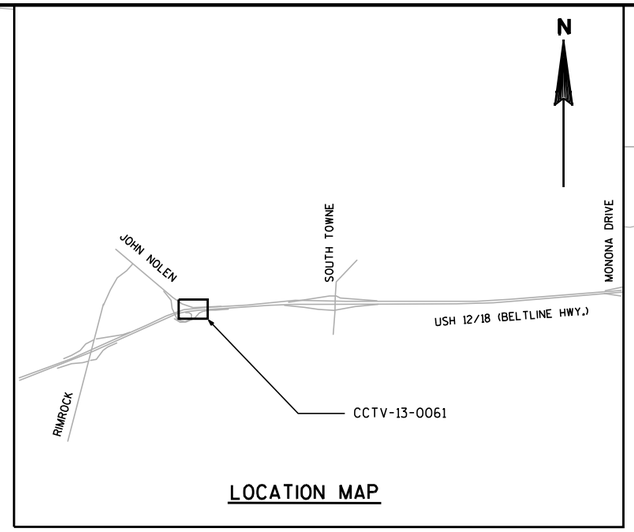
LEGEND

- BASE CAMERA POLE 50-FT
- PULL BOX STEEL 24X36-INCH
- PULL BOX STEEL 24X42-INCH
- CONDUIT
- BASE ITS CONTROLLER CABINET
- POLE MOUNTED CABINET
- MICROWAVE DETECTOR
- MICROWAVE DETECTION ZONE

NOTE: GRAYSHADE REPRESENTS EXISTING

STANDARD ABBREVIATIONS

CCTV	CLOSED CIRCUIT TELEVISION CAMERA
CP	CAMERA POLE
PB	PULL BOX
EXPB	EXISTING PULL BOX
EXCB	EXISTING CONTROL CABINET
MD	MICROWAVE DETECTOR



LOCATION MAP

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

N

2

WB OFF-RAMP

INSTALL IN MOUNTED CABINET
(6) FIBER OPTIC TERMINATION (12-COUNT PANEL) (DEPARTMENT-FURNISHED)
(1) INSTALL VIDEO ENCODER (DEPARTMENT-FURNISHED)
(1) INSTALL ETHERNET SWITCH (DEPARTMENT-FURNISHED) (4-PORT TERMINAL SERVER)

INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH AND 3-INCH
1-2" (3) ELECTRICAL WIRE LIGHTING 2 AWG
1-3" INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT WITH LOCATE WIRE (DEPARTMENT-FURNISHED)

PB61-02

INSTALL CONDUIT SPECIAL 2-INCH AND 3-INCH
1-2" (3) ELECTRICAL WIRE LIGHTING 2 AWG
1-3" INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT WITH LOCATE WIRE (DEPARTMENT-FURNISHED)
1-3" SPARE

PB61-01

INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH AND 3-INCH
1-2" (3) ELECTRICAL WIRE LIGHTING 2 AWG
1-3" INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT WITH LOCATE WIRE (DEPARTMENT-FURNISHED)
1-3" SPARE

INSTALL CONDUIT INTO EXISTING ITEM

INSTALL 20 AMP BREAKER IN EXISTING BREAKER DISCONNECT BOX

EXPB61-01

EXCB61-01

INSTALL IN EXISTING FIELD CABINET
(6) FIBER OPTIC TERMINATION
(IN EXISTING 12-COUNT PANEL)

EXPB61-02

REMOVE CABLE REQ'D (EXISTING CABINET TO WB USH 12/18 BELTLINE OFF-RAMP LOOP (LEAD-IN CABLE))

EXPB61-03

INSTALL CONDUIT INTO EXISTING ITEM

CP61-01 MD61-03 MD61-02 MD61-01 PB61-03

INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH AND 3-INCH
1-2" (3) ELECTRICAL WIRE LIGHTING 2 AWG
1-3" INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT WITH LOCATE WIRE (DEPARTMENT-FURNISHED)

INSTALL CONDUIT INTO EXISTING ITEM

REMOVE CABLE REQ'D (EXISTING CABINET TO WB USH 12/18 BELTLINE LOOPS (LEAD-IN CABLE))

WB USH 12/18 (BELTLINE)

INSTALL IN EXISTING CONDUIT
(3) ELECTRICAL WIRE LIGHTING 2 AWG
INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT WITH LOCATE WIRE
(DEPARTMENT-FURNISHED)

CCTV-13-0061
INSTALL ON BASE CAMERA POLE 50-FT
(1) INSTALL CAMERA POLE (DEPARTMENT-FURNISHED)
(1) INSTALL CAMERA ASSEMBLY (DEPARTMENT-FURNISHED)
(1) INSTALL MOUNTED CABINET (DEPARTMENT-FURNISHED)
(3) INSTALL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY (DEPARTMENT-FURNISHED)
(2) PLAQUES SEQUENCE IDENTIFICATION
(1) ELECTRICAL SERVICE BREAKER DISCONNECT BOX
60 LF CABLE MICROWAVE DETECTOR (SUPPLIED WITH DEPARTMENT-FURNISHED MICROWAVE RADAR ASSEMBLY)
50 LF CAMERA CABLES (INCIDENTAL TO CAMERA INSTALLATION)

EB USH 12/18 (BELTLINE)

CAMERA ARM ALIGNMENT
ALIGN BOLT CIRCLE TO BE SQUARE TO THIS LINE

EXPB61-04

REMOVE CABLE REQ'D (EXISTING CABINET TO EB USH 12/18 BELTLINE LOOPS (LEAD-IN CABLE))

EB ON-RAMP

EB OFF-RAMP

REMOVE CABLE REQ'D (EXISTING CABINET TO EB USH 12/18 OFF-RAMP LOOP (LEAD-IN CABLE))

EXISTING CABINET (EXCB61-02) IS LOCATED ALONG THE SOUTH SIDE OF THE INTERCHANGE

① INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH FROM PULL BOX TO CAMERA BASE
1-3" WITH (1) INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT WITH LOCATE WIRE (DEPARTMENT-FURNISHED)
1-3" SPARE FOR FUTURE USE

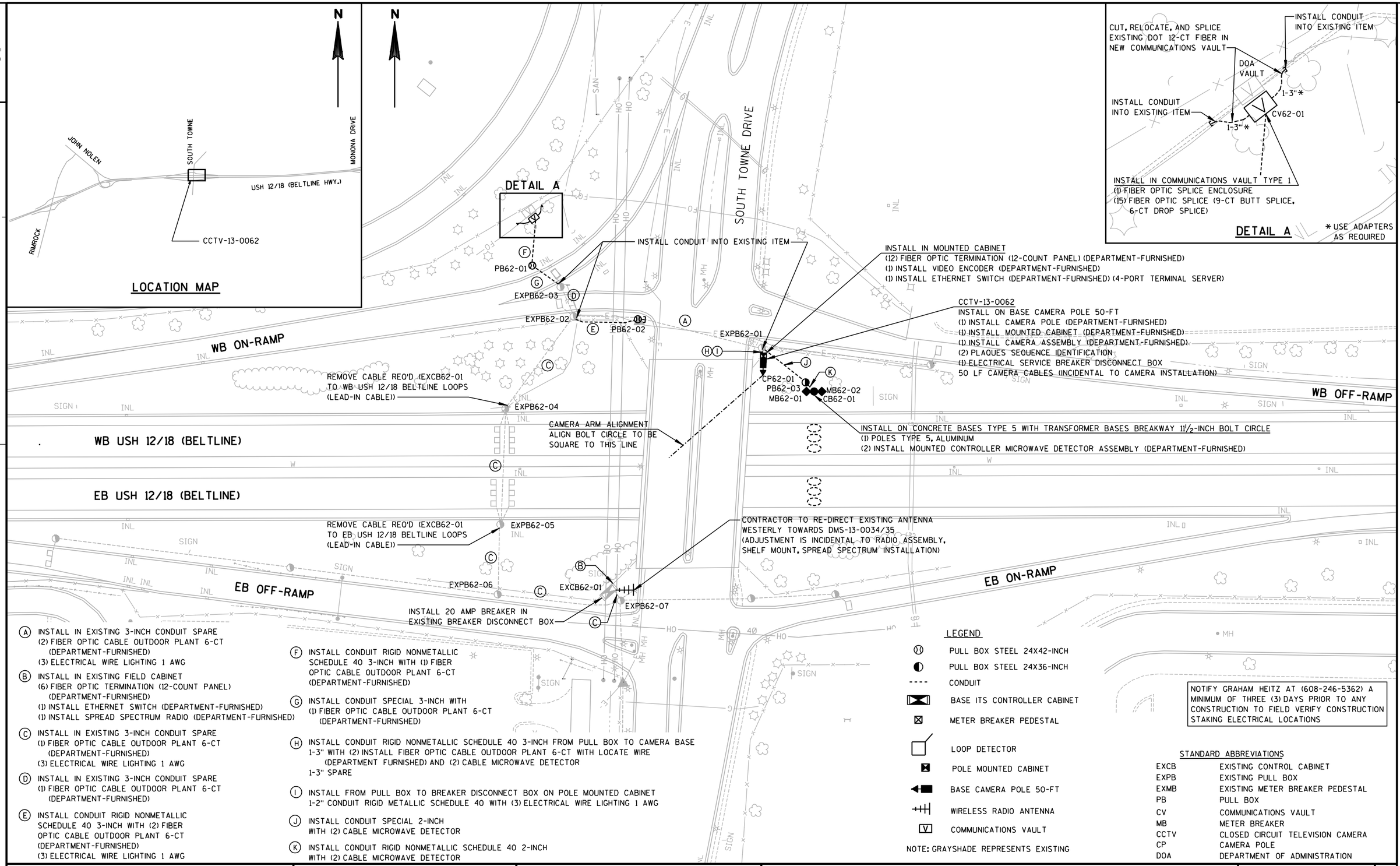
② INSTALL CONDUIT RIGID METALLIC 2-INCH FROM PULL BOX TO BREAKER DISCONNECT BOX ON POLE MOUNTED CABINET
1-2" WITH (3) ELECTRICAL WIRE LIGHTING 2 AWG

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - JOHN NOLEN DRIVE CAMERA (CCTV-13-0061)	SHEET 185 E

LOCATION MAP

DETAIL A

* USE ADAPTERS AS REQUIRED



(A) INSTALL IN EXISTING 3-INCH CONDUIT SPARE
(2) FIBER OPTIC CABLE OUTDOOR PLANT 6-CT
(DEPARTMENT-FURNISHED)
(3) ELECTRICAL WIRE LIGHTING 1 AWG

(B) INSTALL IN EXISTING FIELD CABINET
(6) FIBER OPTIC TERMINATION (12-COUNT PANEL)
(DEPARTMENT-FURNISHED)
(1) INSTALL ETHERNET SWITCH (DEPARTMENT-FURNISHED)
(1) INSTALL SPREAD SPECTRUM RADIO (DEPARTMENT-FURNISHED)

(C) INSTALL IN EXISTING 3-INCH CONDUIT SPARE
(1) FIBER OPTIC CABLE OUTDOOR PLANT 6-CT
(DEPARTMENT-FURNISHED)
(3) ELECTRICAL WIRE LIGHTING 1 AWG

(D) INSTALL IN EXISTING 3-INCH CONDUIT SPARE
(1) FIBER OPTIC CABLE OUTDOOR PLANT 6-CT
(DEPARTMENT-FURNISHED)

(E) INSTALL CONDUIT RIGID NONMETALLIC
SCHEDULE 40 3-INCH WITH (2) FIBER
OPTIC CABLE OUTDOOR PLANT 6-CT
(DEPARTMENT-FURNISHED)
(3) ELECTRICAL WIRE LIGHTING 1 AWG

(F) INSTALL CONDUIT RIGID NONMETALLIC
SCHEDULE 40 3-INCH WITH (1) FIBER
OPTIC CABLE OUTDOOR PLANT 6-CT
(DEPARTMENT-FURNISHED)

(G) INSTALL CONDUIT SPECIAL 3-INCH WITH
(1) FIBER OPTIC CABLE OUTDOOR PLANT 6-CT
(DEPARTMENT-FURNISHED)

(H) INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH FROM PULL BOX TO CAMERA BASE
1-3" WITH (2) INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT WITH LOCATE WIRE
(DEPARTMENT FURNISHED) AND (2) CABLE MICROWAVE DETECTOR
1-3" SPARE

(I) INSTALL FROM PULL BOX TO BREAKER DISCONNECT BOX ON POLE MOUNTED CABINET
1-2" CONDUIT RIGID METALLIC SCHEDULE 40 WITH (3) ELECTRICAL WIRE LIGHTING 1 AWG

(J) INSTALL CONDUIT SPECIAL 2-INCH
WITH (2) CABLE MICROWAVE DETECTOR

(K) INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
WITH (2) CABLE MICROWAVE DETECTOR

LEGEND

- PULL BOX STEEL 24X42-INCH
- PULL BOX STEEL 24X36-INCH
- CONDUIT
- BASE ITS CONTROLLER CABINET
- METER BREAKER PEDESTAL
- LOOP DETECTOR
- POLE MOUNTED CABINET
- BASE CAMERA POLE 50-FT
- WIRELESS RADIO ANTENNA
- COMMUNICATIONS VAULT

NOTE: GRAYSHADE REPRESENTS EXISTING

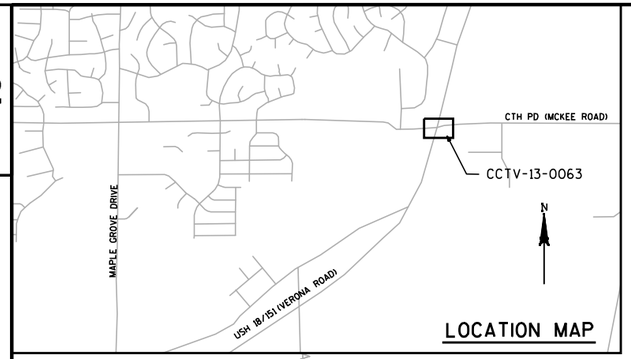
NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

STANDARD ABBREVIATIONS

EXCB	EXISTING CONTROL CABINET
EXPB	EXISTING PULL BOX
EXMB	EXISTING METER BREAKER PEDESTAL
PB	PULL BOX
CV	COMMUNICATIONS VAULT
MB	METER BREAKER
CCTV	CLOSED CIRCUIT TELEVISION CAMERA
CP	CAMERA POLE
DOA	DEPARTMENT OF ADMINISTRATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - SOUTH TOWNE CAMERA (CCTV-13-0062)	SHEET E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021475_fm_ST_CCTV.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

N

US 18/151 (VERONA ROAD)

INSTALL SERVICE WIRE TO EXISTING METER BREAKER PEDESTAL. SEE CONSTRUCTION DETAIL "50-FT WOOD POLE WITH SERVICE" FOR ADDITIONAL INFORMATION.

INSTALL IN MOUNTED CABINET
(1) INSTALL VIDEO ENCODER (DEPARTMENT-FURNISHED)
(1) INSTALL CELLULAR MODEM (DEPARTMENT-FURNISHED)

CP63-01

CAMERA ARM ALIGNMENT
ALIGN BOLT CIRCLE TO BE SQUARE TO THIS LINE

CCTV-13-0063
INSTALL ON WOOD POLE, 50-FT WITH SERVICE
(1) INSTALL MOUNTED CABINET (DEPARTMENT-FURNISHED)
(2) PLAQUES SEQUENCE IDENTIFICATION
(1) INSTALL CAMERA ASSEMBLY (DEPARTMENT-FURNISHED)
(1) CAMERA BRACKET (DEPARTMENT-FURNISHED) (INSTALLATION INCIDENTAL TO CAMERA ASSEMBLY INSTALLATION)
50 LF CAMERA CABLES (INCIDENTAL TO CAMERA INSTALLATION)

CTH PD (MCKEE ROAD)

STANDARD ABBREVIATIONS

CP	CAMERA POLE
MB	METER BREAKER
CCTV	CLOSED CIRCUIT TELEVISION CAMERA

LEGEND

- CONDUIT
- OVERHEAD ELECTRICAL SERVICE
- POSTS WOOD 4X6-INCH X 16-FT
- METER BREAKER
- 50-FT WOOD POLE
- METER BREAKER PEDESTAL
- POLE MOUNTED CABINET
- CAMERA ASSEMBLY

NOTE: GRAYSHADE REPRESENTS EXISTING

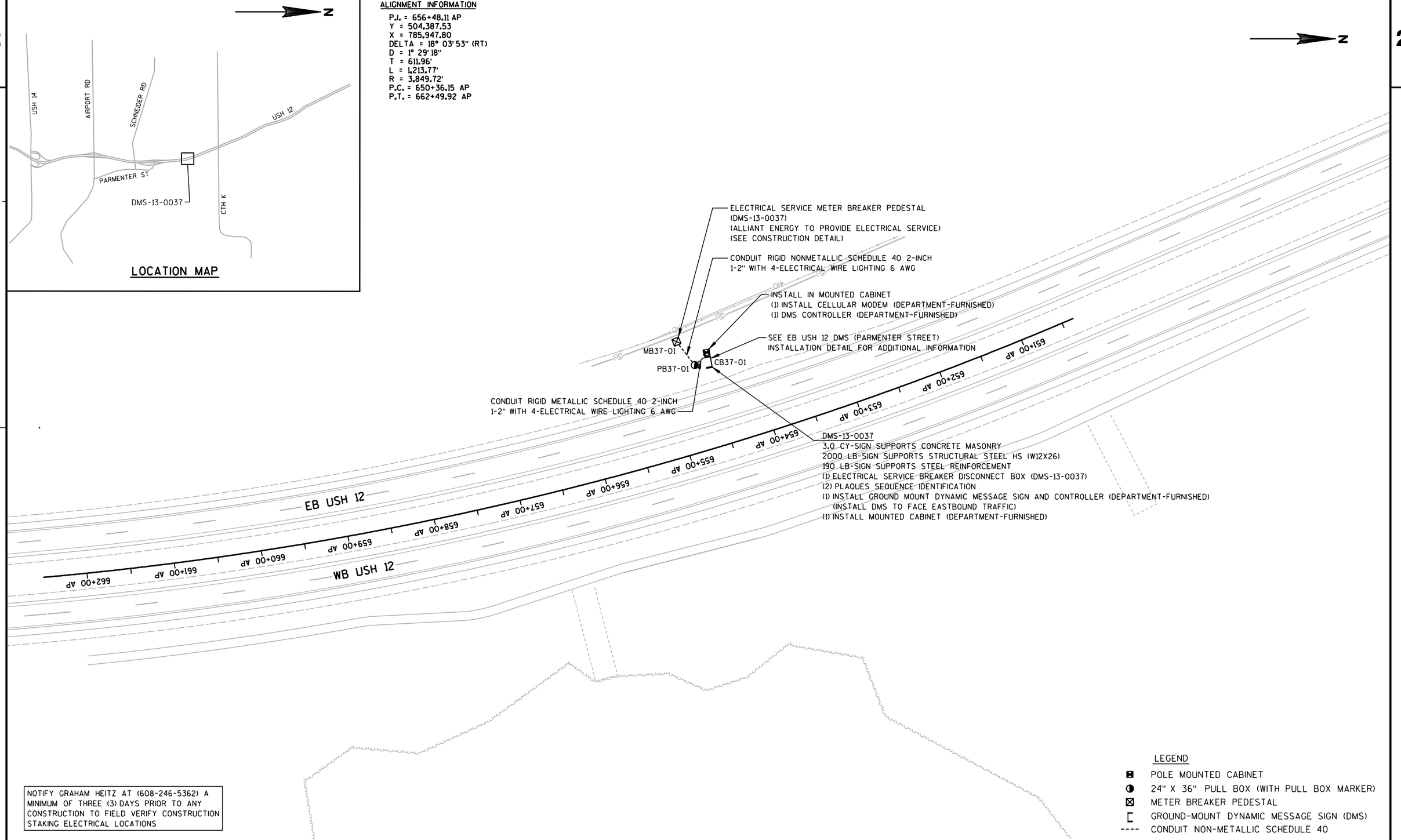
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - CTH PD & VERONA ROAD TEMPORARY CAMERA (CCTV-01-0063)	SHEET E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021476_fm_PD_TempCCTV.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

LOCATION MAP

ALIGNMENT INFORMATION

P.I. = 656+48.11 AP
Y = 504,387.53
X = 785,947.80
DELTA = 18° 03' 53" (RT)
D = 1° 29' 18"
T = 611.96'
L = 1,213.77'
R = 3,849.72'
P.C. = 650+36.15 AP
P.T. = 662+49.92 AP



NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

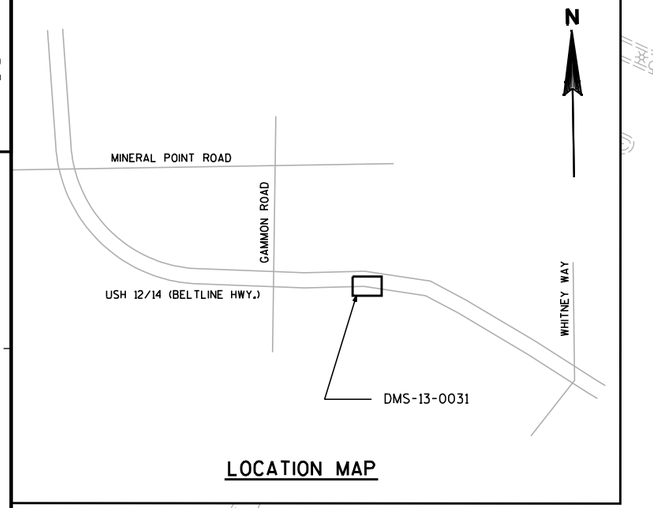
LEGEND

- POLE MOUNTED CABINET
- 24" X 36" PULL BOX (WITH PULL BOX MARKER)
- METER BREAKER PEDESTAL
- GROUND-MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ---- CONDUIT NON-METALLIC SCHEDULE 40

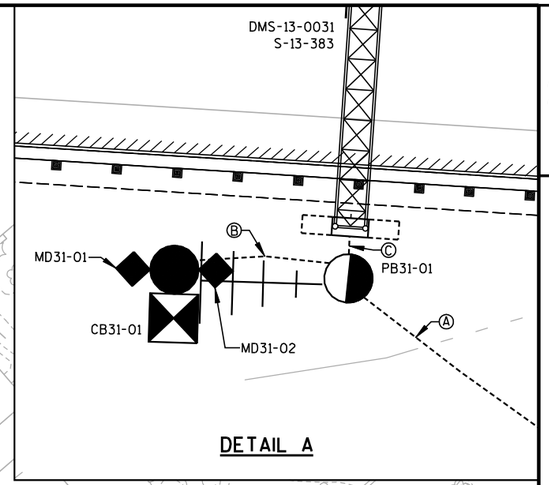
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - AIRPORT ROAD DMS (DMS-13-0037)	SHEET E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021525_fm_AIRPORT RD.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2



LOCATION MAP



DETAIL A

2

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

(1) INSTALL OVERHEAD FREEWAY DMS FULL MATRIX AND CONTROLLER (DEPARTMENT-FURNISHED)
(CONTROLLER INSTALLED IN CABINET)
(INSTALL DMS TO FACE EASTBOUND TRAFFIC)

DMS-13-0031
S-13-383

DETAIL A

Ⓐ MB31-01

ELECTRICAL SERVICE METER BREAKER PEDESTAL
(DMS-13-0031)
(SEE CONSTRUCTION DETAIL)
(MG&E TO PROVIDE ELECTRICAL SERVICE)

INSTALL ON CONCRETE BASES TYPE 5 WITH TRANSFORMER BASES BREAKAWAY 1 1/2-INCH BOLT CIRCLE
(1) POLES TYPE 5, ALUMINUM
(1) INSTALL MOUNTED CABINET (DEPARTMENT-FUNRISHED)
(1) ELECTRICAL SERVICE BREAKER DISCONNECT BOX (DMS-13-0031)
(2) INSTALL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY (DEPARTMENT-FURNISHED)
(2) PLAQUES SEQUENCE IDENTIFICATION
(1) DMS CONTROLLER (DEPARTMENT-FURNISHED)
(1) INSTALL ETHERNET SWITCH (DEPARTMENT-FURNISHED) (4-PORT ETHERNET SWITCH)
(1) INSTALL IP WIRELESS 5.8 GHZ RADIO/ANTENNA (DEPARTMENT-FURNISHED)
ORIENT ANTENNA (SUBSCRIBER) EASTERLY TO SMART MOTORS REPEATER SITE
(2) 60 LF CABLE MICROWAVE DETECTOR (SUPPLIED WITH DEPARTMENT-FURNISHED MICROWAVE RADAR ASSEMBLY)

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

Ⓐ INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
1-2" (4) ELECTRICAL WIRE LIGHTING 6 AWG

Ⓑ INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
1-2" (4) ELECTRICAL WIRE LIGHTING 6 AWG AND DMS POWER CABLES
1-2" FOR DMS COMMUNICATION CABLE

Ⓒ INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH
1-3" FOR DMS POWER
1-3" FOR DMS COMMUNICATION CABLE

STANDARD ABBREVIATIONS

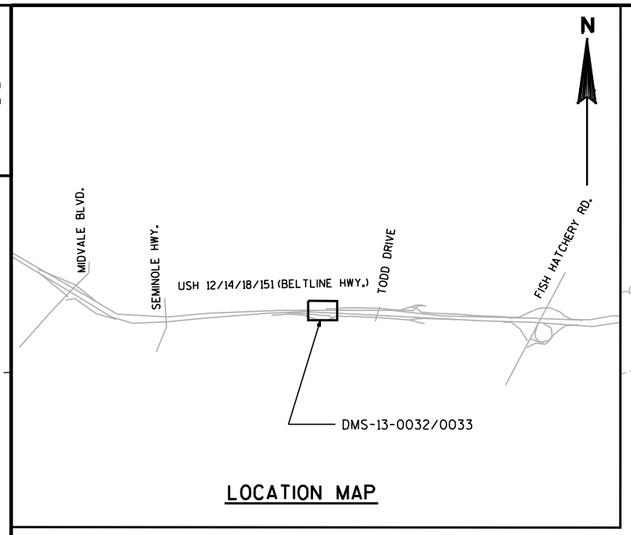
SSR	SPREAD SPECTRUM RADIO
PB	PULL BOX
CB	CONTROL CABINET
MB	METER BREAKER
MD	MICROWAVE DETECTOR

LEGEND

- WIRELESS ANTENNA
- 24" X 36" PULL BOX (WITH PULL BOX MARKER)
- METER BREAKER PEDESTAL
- POLE MOUNTED CABINET
- OVERHEAD-MOUNT DYNAMIC MESSAGE SIGN (DMS)
- CONDUIT NON-METALLIC SCHEDULE 40
- MICROWAVE DETECTION ZONE
- MICROWAVE DETECTOR

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - GAMMON ROAD DMS (DMS-13-0031)	SHEET 189 E

2



LOCATION MAP

Ⓐ INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
1-2" WITH (4) ELECTRICAL WIRE LIGHTING 1 AWG

Ⓑ INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
1-2" (4) ELECTRICAL WIRE LIGHTING 1 AWG AND DMS POWER CABLES
1-2" FOR DMS COMMUNICATION CABLE

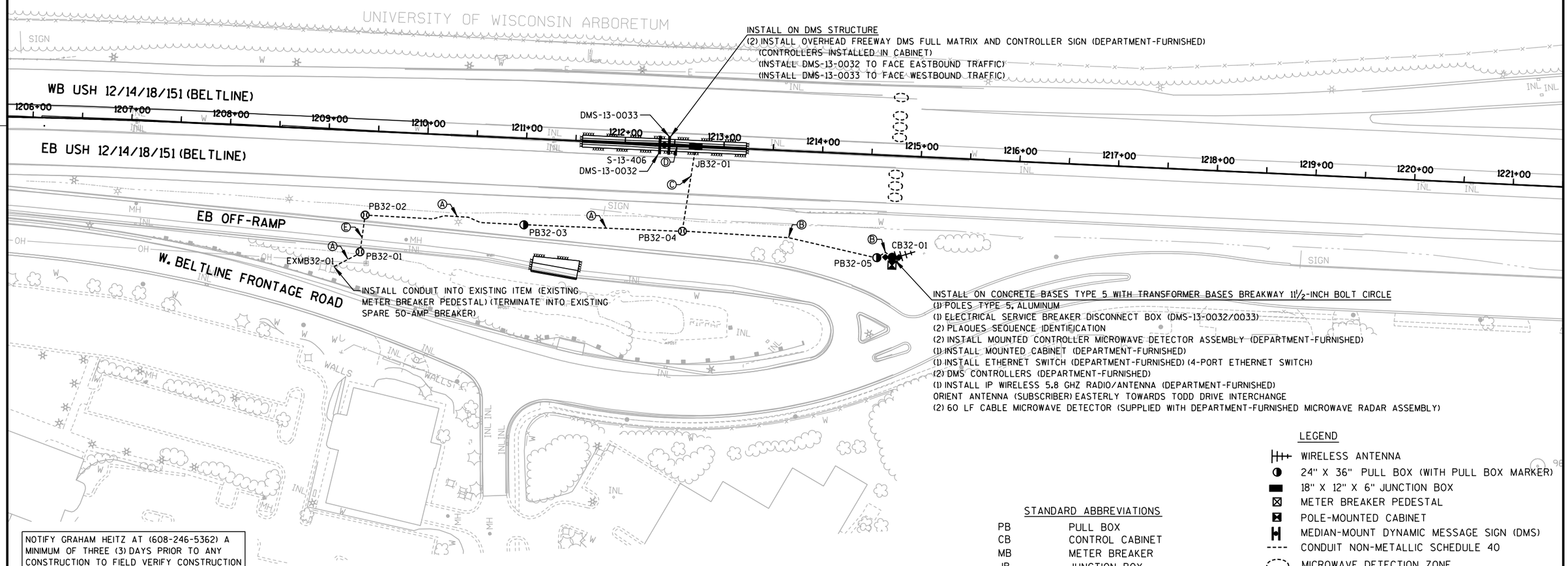
Ⓒ INSTALL CONDUIT SPECIAL 3-INCH
1-3" FOR DMS POWER CABLES
1-3" FOR DMS COMMUNICATION CABLES

Ⓓ INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
3-2" FOR DMS POWER AND COMMUNICATION CABLES

Ⓔ INSTALL CONDUIT SPECIAL 2-INCH
1-3" WITH (4) ELECTRICAL WIRE LIGHTING 1 AWG

N

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INSTALL ON DMS STRUCTURE
(2) INSTALL OVERHEAD FREEWAY DMS FULL MATRIX AND CONTROLLER SIGN (DEPARTMENT-FURNISHED)
(CONTROLLERS INSTALLED IN CABINET)
(INSTALL DMS-13-0032 TO FACE EASTBOUND TRAFFIC)
(INSTALL DMS-13-0033 TO FACE WESTBOUND TRAFFIC)

INSTALL CONDUIT INTO EXISTING ITEM (EXISTING METER BREAKER PEDESTAL) (TERMINATE INTO EXISTING SPARE 50-AMP BREAKER)

INSTALL ON CONCRETE BASES TYPE 5 WITH TRANSFORMER BASES BREAKWAY 11½-INCH BOLT CIRCLE
(1) POLES TYPE 5, ALUMINUM
(1) ELECTRICAL SERVICE BREAKER DISCONNECT BOX (DMS-13-0032/0033)
(2) PLAQUES SEQUENCE IDENTIFICATION
(2) INSTALL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY (DEPARTMENT-FURNISHED)
(1) INSTALL MOUNTED CABINET (DEPARTMENT-FURNISHED)
(1) INSTALL ETHERNET SWITCH (DEPARTMENT-FURNISHED) (4-PORT ETHERNET SWITCH)
(2) DMS CONTROLLERS (DEPARTMENT-FURNISHED)
(1) INSTALL IP WIRELESS 5.8 GHZ RADIO/ANTENNA (DEPARTMENT-FURNISHED)
ORIENT ANTENNA (SUBSCRIBER) EASTERLY TOWARDS TODD DRIVE INTERCHANGE
(2) 60 LF CABLE MICROWAVE DETECTOR (SUPPLIED WITH DEPARTMENT-FURNISHED MICROWAVE RADAR ASSEMBLY)

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

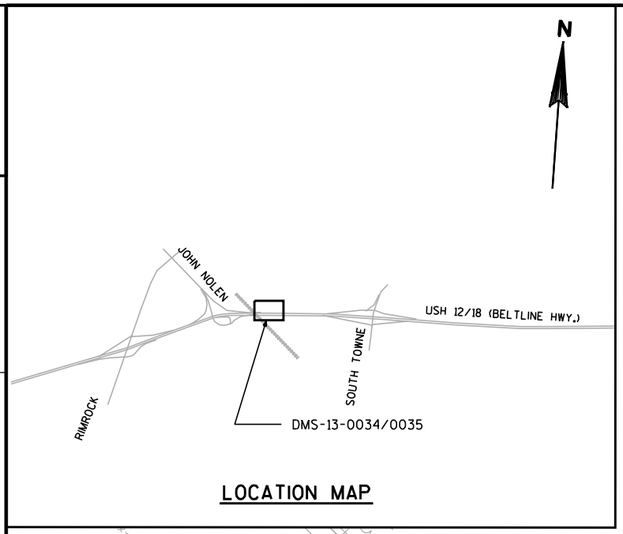
STANDARD ABBREVIATIONS

PB	PULL BOX
CB	CONTROL CABINET
MB	METER BREAKER
JB	JUNCTION BOX
MD	MICROWAVE DETECTOR

LEGEND

- WIRELESS ANTENNA
- 24" X 36" PULL BOX (WITH PULL BOX MARKER)
- 18" X 12" X 6" JUNCTION BOX
- METER BREAKER PEDESTAL
- POLE-MOUNTED CABINET
- MEDIAN-MOUNT DYNAMIC MESSAGE SIGN (DMS)
- CONDUIT NON-METALLIC SCHEDULE 40
- MICROWAVE DETECTION ZONE
- MICROWAVE DETECTOR

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - TODD DRIVE DMS (DMS-13-0032/0033)	SHEET 190 E



LOCATION MAP

Ⓐ INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
1-2" WITH (4) ELECTRICAL WIRE LIGHTING 2 AWG

Ⓑ INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
1-2" (4) ELECTRICAL WIRE LIGHTING 2 AWG AND DMS POWER CABLES
1-2" FOR DMS COMMUNICATION CABLES

Ⓒ INSTALL CONDUIT SPECIAL 3-INCH
1-3" FOR DMS POWER
1-3" FOR DMS COMMUNICATION CABLES

Ⓓ INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
3-2" FOR DMS POWER AND COMMUNICATION CABLES

ALIGNMENT INFORMATION

P.I. = 1383+00 JN
Y = 471,464.20
X = 825,889.28

P.I. = 1392+00 JN
Y = 471,526.34
X = 826,787.13

N

2

INSTALL ON CONCRETE BASE TYPE 5, WITH TRANSFORMER BASES BREAKWAY 11½-INCH BOLT CIRCLE
(1) POLES TYPE 5, ALUMINUM
(1) ELECTRICAL SERVICE BREAKER DISCONNECT BOX (DMS-13-0034/0035)
(2) PLAQUES SEQUENCE IDENTIFICATION
(1) INSTALL MOUNTED CABINET (DEPARTMENT-FURNISHED)
(1) INSTALL SPREAD SPECTRUM RADIO (DEPARTMENT-FURNISHED)
(1) INSTALL ETHERNET SWITCH (DEPARTMENT-FURNISHED) (4-PORT ETHERNET SWITCH)
(2) DMS CONTROLLERS (DEPARTMENT-FURNISHED)
(1) INSTALL YAGI ANTENNA ON POLE (DEPARTMENT-FURNISHED)
(ORIENT EASTERLY TOWARDS CCTV-13-0062)
(ANTENNA INSTALLATION INCIDENTAL TO WIRELESS SUBSCRIBER)

PB34-03
CB34-01
PB34-02
MB34-01
PB34-01
ELECTRICAL SERVICE METER BREAKER PEDESTAL
(DMS-13-0034/0035)
(SEE CONSTRUCTION DETAIL)
(MG&E TO PROVIDE ELECTRICAL SERVICE)

WB USH 12/18 (BELTLINE)

DMS-13-0035
1383+00 JN 1384+00 JN 1385+00 JN 1386+00 JN 1387+00 JN 1388+00 JN 1389+00 JN 1390+00 JN 1391+00 JN 1392+00 JN
S-13-407
DMS-13-0034
JB34-01

EB USH 12/18 (BELTLINE)

EB ON-RAMP

INSTALL ON DMS SIGN STRUCTURE
(2) INSTALL OVERHEAD FREEWAY DMS FULL MATRIX AND CONTROLLER (DEPARTMENT-FURNISHED)
(CONTROLLERS INSTALLED IN CABINET)
(INSTALL DMS-13-0034 TO FACE EASTBOUND TRAFFIC)
(INSTALL DMS-13-0035 TO FACE WESTBOUND TRAFFIC)

WISCONSIN & SOUTHERN RAILROAD

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

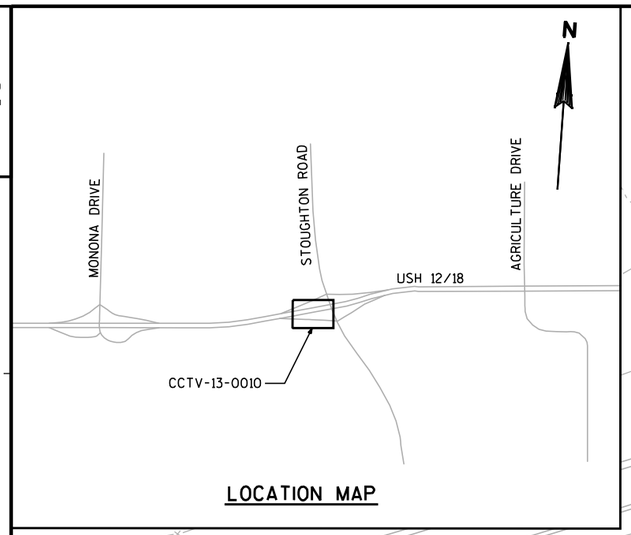
STANDARD ABBREVIATIONS

PB	PULL BOX
CB	CONTROL CABINET
MB	METER BREAKER
JB	JUNCTION BOX

LEGEND

- WIRELESS ANTENNA
- 24" X 36" PULL BOX (WITH PULL BOX MARKER)
- 18" X 12" X 6" JUNCTION BOX
- METER BREAKER PEDESTAL
- POLE-MOUNTED CABINET
- MEDIAN-MOUNT DYNAMIC MESSAGE SIGN (DMS)
- CONDUIT NON-METALLIC SCHEDULE 40

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - JOHN NOLEN DRIVE DMS (DMS-13-0034/0035)	SHEET 191 E



LOCATION MAP

INSTALL ON EXISTING TYPE 5 POLE
(2) INSTALL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY (DEPARTMENT-FURNISHED)

MD14-01
MD14-02
EXB-02

INSTALL IN EXISTING CONDUIT
(2) CABLE MICROWAVE DETECTOR

EXCB-01

INSTALL IN EXISTING STOUGHTON ROAD ITS CABINET
(1) INSTALL SPREAD SPECTRUM RADIO (DEPARTMENT-FURNISHED)

LEGEND

- 24" X 36" PULL BOX (WITH PULL BOX MARKER)
- CONDUIT NON-METALLIC SCHEDULE 40
- ITS FIELD CABINET
- MICROWAVE DETECTOR
- MICROWAVE DETECTION ZONE

NOTE: GRAYSHADE REPRESENTS EXISTING

STANDARD ABBREVIATIONS

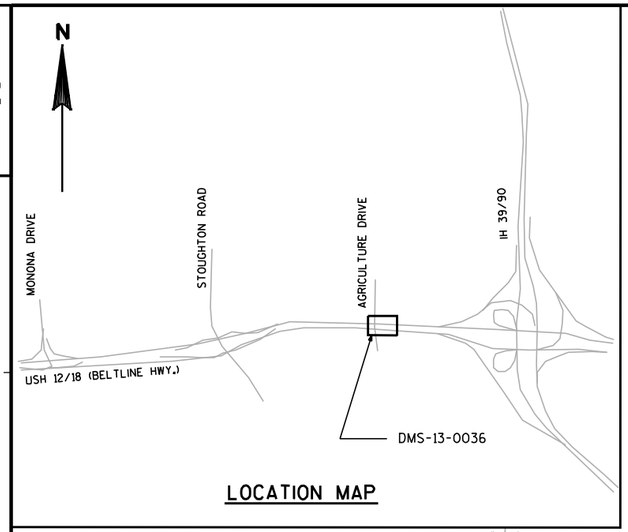
EXCB	EXISTING CONTROL CABINET
EXB	EXISTING BASE
MD	MICROWAVE DETECTOR

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - STOUGHTON ROAD (SDS-13-014)	SHEET E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021601_fm_STOUGHTON.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42



LOCATION MAP

ALIGNMENT INFORMATION

P.I. = 1584+00 AG
Y = 472,928.51
X = 845,853.46

P.I. = 1595+00 AG
Y = 472,878.76
X = 846,952.34

AGRICULTURE DRIVE

INSTALL ON EXISTING SIGN STRUCTURE (S-13-188)
(1) INSTALL MOUNTED CABINET (DEPARTMENT-FURNISHED)
(1) ELECTRICAL SERVICE BREAKER DISCONNECT BOX (DMS-13-0036)
(2) PLAQUES SEQUENCE IDENTIFICATION
(1) DMS CONTROLLER (DEPARTMENT-FURNISHED)
(1) INSTALL SPREAD SPECTRUM RADIO (DEPARTMENT-FURNISHED)
(1) INSTALL YAGI ANTENNA ON CABINET (DEPARTMENT-FURNISHED)
(ORIENT WESTERLY TOWARDS CCTV-13-0010)

FOR NUMBER OF CONDUITS
SEE DMS STRUCTURE POLE MOUNTED CABINET DETAIL

ELECTRICAL SERVICE METER BREAKER PEDESTAL
(DMS-13-0036)
(SEE CONSTRUCTION DETAIL)
(MG&E TO PROVIDE ELECTRICAL SERVICE)

CB36-01
MB36-01
PB36-01

INSTALL CONDUIT RIGID NONMETALLIC SCHDULE 40 2-INCH
(4) ELECTRICAL WIRE LIGHTING 6 AWG

DMS-13-0036

1584+00 AG 1585+00 AG 1586+00 AG 1587+00 AG 1588+00 AG 1589+00 AG 1590+00 AG 1591+00 AG 1592+00 AG 1593+00 AG 1594+00 AG 1595+00 AG

WB USH 12/18 (BELTLINE)

EXISTING SIGN
STRUCTURE (S-13-188)

(1) INSTALL OVERHEAD FREEWAY DMS FULL MATRIX AND CONTROLLER (DEPARTMENT-FURNISHED)
(CONTROLLER INSTALLED IN CABINET)
(INSTALL DMS ONTO EXISTING SIGN STRUCTURE TO FACE WESTBOUND TRAFFIC)

EB USH 12/18 (BELTLINE)

SIGN

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

STANDARD ABBREVIATIONS

PB	PULL BOX
CB	CONTROL CABINET
MB	METER BREAKER
JB	JUNCTION BOX

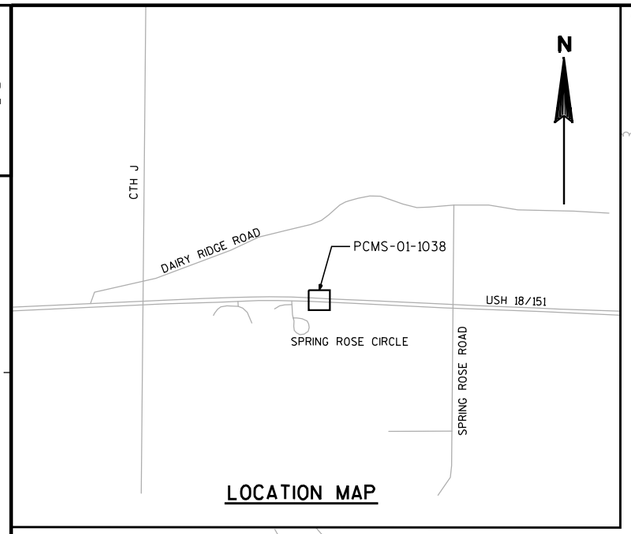
LEGEND

- WIRELESS ANTENNA
- 24" X 36" PULL BOX (WITH PULL BOX MARKER)
- METER BREAKER PEDESTAL
- POLE MOUNTED CABINET
- OVERHEAD-MOUNT DYNAMIC MESSAGE SIGN (DMS)
- CONDUIT NON-METALLIC SCHEDULE 40

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - AGRICULTURE DRIVE DMS (DMS-13-0036)	SHEET E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\021625_fm_MARSH.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

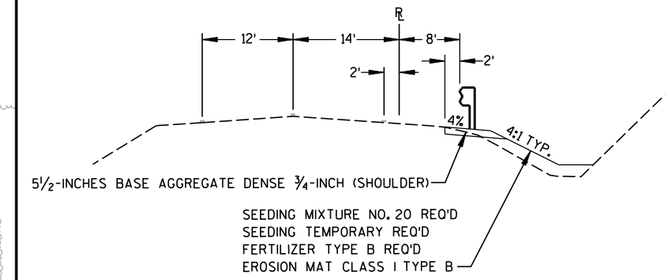


LOCATION MAP

ALIGNMENT INFORMATION

P.I. = 10+00 SRC
Y = 451,389.45
X = 759,647.11

P.I. = 14+50 SRC
Y = 451,369.40
X = 760,096.66



FINISHED TYPICAL SECTION

2

N

HO

WB USH 18/151

EB USH 18/151

SPRING ROSE CIRCLE

MAINTAIN A MINIMUM OF 60-INCHES
BETWEEN PCMS AND PROPOSED MGS GUARDRAIL 3
TO PROVIDE FOR GUARDRAIL DEFLECTION

MGS GUARDRAIL 3 REO'D

POST 1
STA. 11+23.75 SRC, 10' RT

MGS TYPE 2 TERMINAL REO'D

10+00 SRC | 11+00 SRC | 12+00 SRC | 13+00 SRC | 12 FT 14 FT | 14+00 SRC

STA. 14+33.38 SRC, 5.5' RT

BEGIN APPROACH TAPER
GRADING STA. 10+04.69 SRC

15:1 TAPER

MGS GUARDRAIL TERMINAL EAT REO'D

SLOPE INTERCEPT (TYP.)

PCMS-01-1038
PB38-01

INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
(3) ELECTRICAL WIRE LIGHTING 10 AWG

MB38-01

OUTDOOR SERVICE
PEDESTAL

PCMS-01-1038
INSTALL PORTABLE CHANGEABLE MESSAGE SIGN (DEPARTMENT-FURNISHED).
(1) INSTALL CELLULAR MODEM (DEPARTMENT-FURNISHED)
10' X 20' BASE (CENTER OF BASE STA. 13+70 SRC, 19.5' RT)
6" CRUSHED AGGREGATE BASE

ELECTRICAL SERVICE METER BREAKER PEDESTAL
(PCMS-01-1038)
(SEE CONSTRUCTION DETAIL)
(ALLIANT ENERGY TO PROVIDE ELECTRICAL SERVICE)

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

CONSTUCTION NOTES

1. SIGN PAD LOCATION: USH 18/151 NB APPROXIMATELY 410 FEET NORTH OF SPRING ROSE CIRCLE
2. GRADING FOR PCMS PAD REQUIRED

STANDARD ABBREVIATIONS

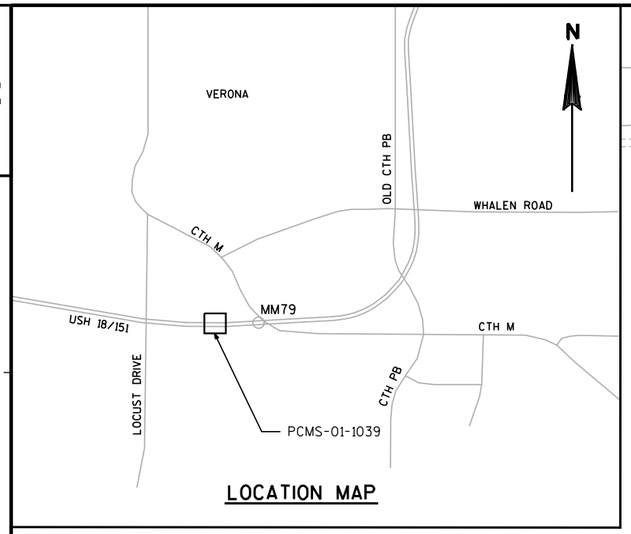
PB	PULL BOX
MB	METER BREAKER
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN

LEGEND

- 24" X 36" PULL BOX (WITH PULL BOX MARKER)
- METER BREAKER PEDESTAL
- PCMS PAD
- CONDUIT NON-METALLIC SCHEDULE 40

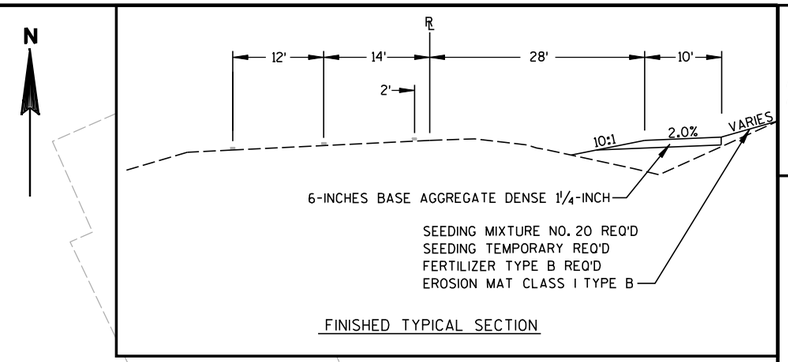
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - SPRING ROSE CIRCLE PCMS (PCMS-01-1038)	SHEET 194 E

2



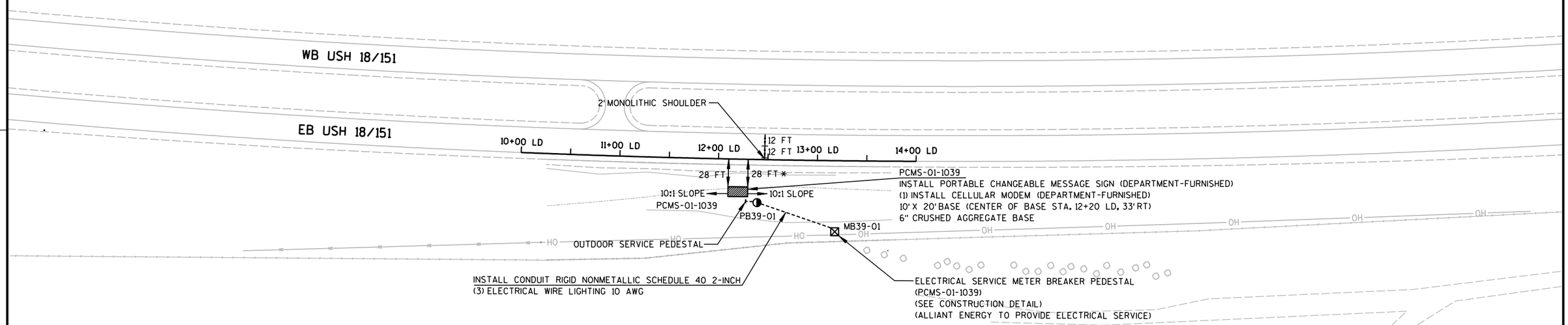
LOCATION MAP

ALIGNMENT INFORMATION
P.I. = 12+00.02 LD
Y = 445,696.87
X = 782,440.53
DELTA = 2° 05' 20" (LT)
D = 0° 31' 20"
T = 200.02'
L = 400.00'
R = 10,971.54'
P.C. = 10+00.00 LD
P.T. = 14+00.00 LD



FINISHED TYPICAL SECTION

2



* CLEARZONE IS 30 FT AND IS MEASURED FROM THE EDGE OF TRAVELED LANE.

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

CONSTUCTION NOTES

1. SIGN PAD LOCATION: USH 18/151 NB APPROXIMATELY 955 FEET SOUTH OF MM79 (165 FEET NORTH OF MAINTENANCE OPENING)
2. GRADING FOR PCMS PAD REQUIRED

STANDARD ABBREVIATIONS

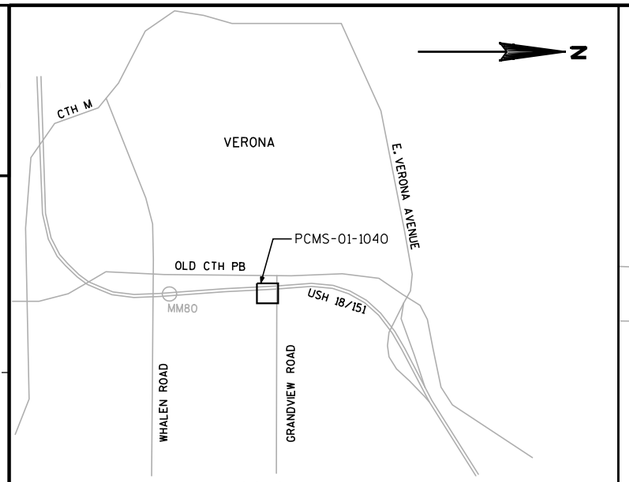
PB	PULL BOX
MB	METER BREAKER
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN

LEGEND

- ◑ 24" X 36" PULL BOX (WITH PULL BOX MARKER)
- ⊠ METER BREAKER PEDESTAL
- ▨ PCMS PAD
- ---- CONDUIT NON-METALLIC SCHEDULE 40

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - LOCUST DRIVE PCMS (PCMS-01-1039)	SHEET 195	E

2

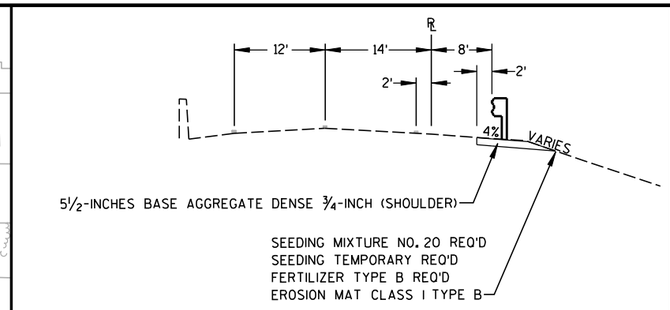


LOCATION MAP

ALIGNMENT INFORMATION

P.I. = 10+00 GR
Y = 450,340.05
X = 786,841.51

P.I. = 14+25 GR
Y = 450,764.23
X = 786,815.15



FINISHED TYPICAL SECTION

2

N

OLD CTH PB

WB USH 18/151

EB USH 18/151

MGS THRIE BEAM TRANSITION REQ'D

MGS GUARDRAIL 3 REQ'D

POST 1
STA. 11+25.28 GR, 10' RT

10+00 GR
11+00 GR
12+00 GR
13+00 GR
14+00 GR

MAINTAIN A MINIMUM OF 60-INCHES BETWEEN PCMS AND PROPOSED MGS GUARDRAIL 3 TO PROVIDE FOR GUARDRAIL DEFLECTION

PCMS-01-1040

BEGIN APPROACH TAPER
GRADING STA. 10+06.22 GR

15:1 TAPER

MGS GUARDRAIL TERMINAL EAT REQ'D

SLOPE INTERCEPT (TYP.)

REMOVING GUARDRAIL REQ'D

PCMS-01-1040
INSTALL PORTABLE CHANGEABLE MESSAGE SIGN (DEPARTMENT-FURNISHED)
(1) INSTALL CELLULAR MODEM (DEPARTMENT-FURNISHED)
10' X 20' BASE (CENTER OF BASE STA. 13+76 GR, 17' RT)
6" CRUSHED AGGREGATE BASE

GRANDVIEW ROAD

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

CONSTUCTION NOTES

1. SIGN PAD LOCATION: USH 18/151 NB APPROXIMATELY 2040 FEET NORTH OF MM 80 (225 FEET NORTH OF THE BEGINNING OF EXISTING BEAM GUARD
2. GRADING FOR PCMS PAD REQUIRED

STANDARD ABBREVIATIONS

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

LEGEND

PCMS PAD

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - GRANDVIEW ROAD PCMS (PCMS-01-1040)	SHEET 196 E

STRUCTURE DATA TABLE															
STRUCTURE NO.	STATION	OFFSET	C-C (FT)	TO STRUCTURE	INLET TYPE & COVER	MH TYPE & COVER	GRATE ELVATION	T.O.S. ELEVATION	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEVATION	DISCHARGE PIPE DISCHARGE ELEVATION	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
60.1	12+29.24 MPR	30.22 RT	50	60.2	---	---	---	---	---	18	1056.99	1056.02	50	1.9	18-INCH APRON ENDWALL REQ'D
60.2	11+69.24 MPR	30.68 RT	---	---	---	---	---	---	---	18	1056.02	---	---	---	18-INCH APRON ENDWALL REQ'D

NOTIFY GRAHAM HEITZ AT (608-246-5362) A MINIMUM OF THREE (3) DAYS PRIOR TO ANY CONSTRUCTION TO FIELD VERIFY CONSTRUCTION STAKING ELECTRICAL LOCATIONS

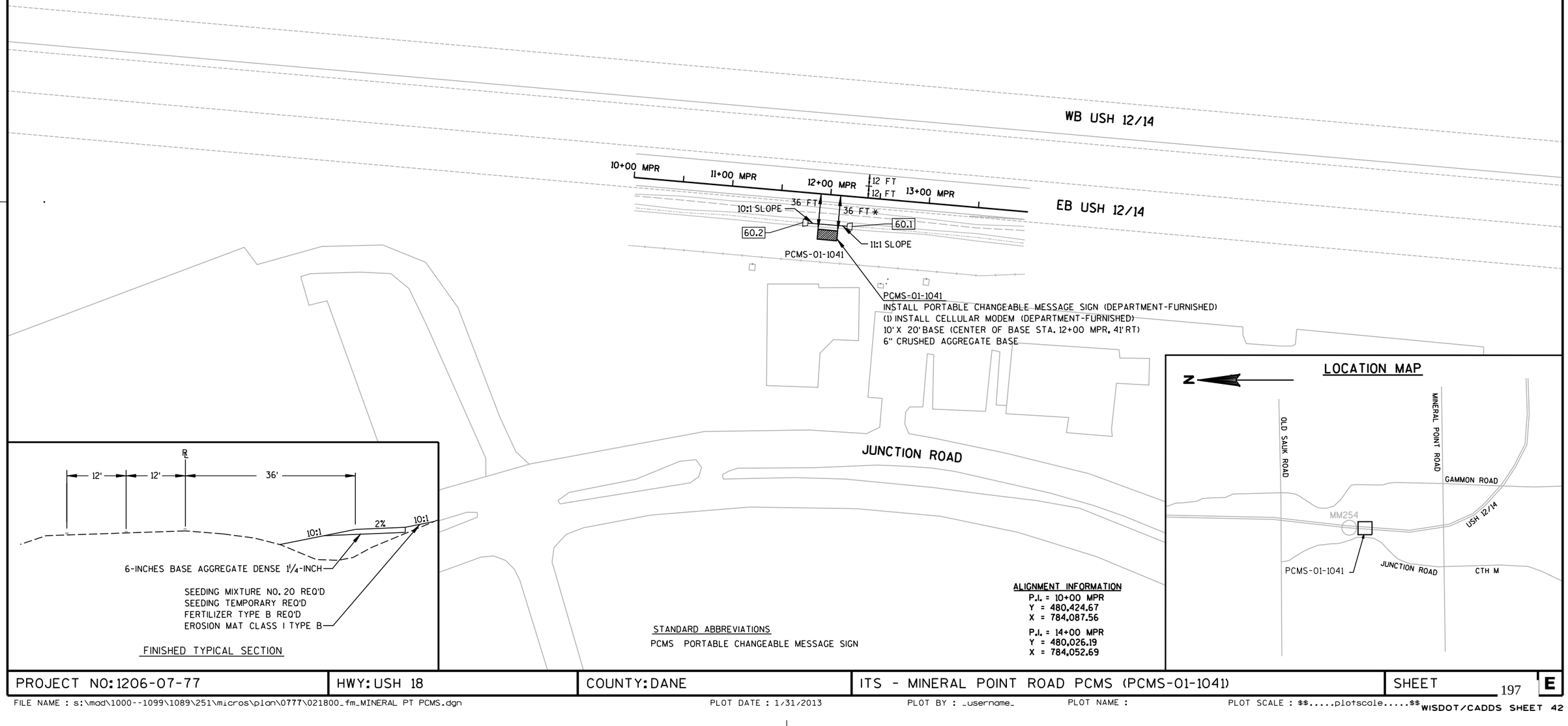
CONSTUCTION NOTES

1. SIGN PAD LOCATION: USH 18/151 NB APPROXIMATELY 190 FEET SOUTH OF MILE MARKER 254
2. GRADING FOR PCMS PAD REQUIRED

LEGEND

PCMS PAD

* CLEARZONE IS 36 FT AND IS MEASURED FROM THE EDGE OF TRAVELED LANE.



FINISHED TYPICAL SECTION

LOCATION MAP

STANDARD ABBREVIATIONS

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

ALIGNMENT INFORMATION

P.I. = 10+00 MPR
Y = 480,424.67
X = 784,087.56

P.I. = 14+00 MPR
Y = 480,026.19
X = 784,052.69

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS - MINERAL POINT ROAD PCMS (PCMS-01-1041)	SHEET 197 E

EROSION CONTORL LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE DETAIL)

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- RIPRAP MEDIUM / HEAVY
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT CLASS IITYPE C
- MULCHING

ODANA ROAD

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

995+00 996+00 997+00 998+00 999+00 1000+00 1001+00 1002+00 1003+00 1004+00 1005+00 1006+00 1007+00 1008+00 1009+00 1010

MATCHLINE STA. 1010+00

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022001_ec.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

EROSION CONTORL LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE DETAIL)

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- RIPRAP MEDIUM / HEAVY
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCHING

N

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1010+00

MATCHLINE STA. 1025+00

1008+00 1009+00 1010+00 1011+00 1012+00 1013+00 1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00 1021+00 1022+00 1023+00 1024+00 1025+00

A

SIGN INL W MH U/C A/C BIKE PATH

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022002_ec.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

EROSION CONTORL LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE DETAIL)

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- RIPRAP MEDIUM / HEAVY
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCHING

ODANA ROAD

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1025+00

MATCHLINE STA. 1040+00

1025+00 1026+00 1027+00 1028+00 1029+00 1030+00 1031+00 1032+00 1033+00 1034+00 1035+00 1036+00 1037+00 1038+00 1039+00 1040+00

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14 (BELTLINE)	SHEET 200	E

EROSION CONTORL LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE DETAIL)

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- RIPRAP MEDIUM / HEAVY
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCHING

ODANA ROAD

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1040+00

MATCHLINE STA. 1055+00

1040+00 1041+00 1042+00 1043+00 1044+00 1045+00 1046+00 1047+00 1048+00 1049+00 1050+00 1051+00 1052+00 1053+00 1054+00 1055

TOWER

BLEACHERS

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022004_ec.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

EROSION CONTORL LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(B)	INLET PROTECTION TYPE B	●	PROPOSED STORM SEWER MANHOLE
(C)	INLET PROTECTION TYPE C	⏢	PROPOSED APRON ENDWALL
(D)	INLET PROTECTION TYPE D	-----	SLOPE INTERCEPT
(AB)	PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.		RIPRAP MEDIUM / HEAVY
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	△△△	TEMPORARY DITCH CHECKS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	⟷	SILT FENCE
(P)	TREE PROTECTION (SEE DETAIL)	○○○	CULVERT PIPE CHECKS
		⇝	SURFACE WATER FLOW
			EROSION MAT URBAN CLASS I TYPE A
		####	EROSION MAT CLASS I TYPE B
			EROSION MAT CLASS II TYPE C
			MULCHING

ODANA ROAD

MEDICAL CIRCLE

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1055+00

MATCHLINE STA. 1070+00

1056+00 1057+00 1058+00 1059+00 1060+00 1061+00 1062+00 1063+00 1064+00 1065+00 1066+00 1067+00 1068+00 1069+00

65+00 WP 66+00 WP 67+00 WP 68+00 WP 69+00 WP 70+0

RIPRAP BERM RIPRAP INL MH SIGN W ANT. WALLS A/C

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14 (BELTLINE)	SHEET 202	E

EROSION CONTORL LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE DETAIL)

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- RIPRAP MEDIUM / HEAVY
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCHING

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1070+00

70+00 WP 71+00 WP 72+00 WP 73+00 WP 74+00 WP 75+00 WP 76+00 WP

1071+00 1072+00 1073+00 1074+00 1075+00 1076+00 1077+00 1078+00 1079+00 1080+00 1081+00 1082+00 1083+00 1084+00 1085+00

SCHROEDER ROAD

S WHITNEY WAY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14 (BELTLINE)	SHEET 203	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022006_ec.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

SALVAGED TOPSOIL; FERTILIZER TYPE B; TEMPORARY SEEDING; SEEDING MIXTURE NO. 20; AND EROSION MAT CLASS I TYPE B

SALVAGED TOPSOIL; TEMPORARY SEEDING; SEEDING MIXTURE WET DETENTION BASIN; AND EROSION MAT CLASS I TYPE B

SALVAGED TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 70A; NURSE CROP; AND MULCHING

PONTIAC TRAIL

HAMMERSLEY ROAD

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

HAMMERSLEY ROAD

1120+00 1121+00 1122+00 1123+00 1124+00 1125+00 1126+00 1127+00 1128+00 1129+00 1130+00 1131+00 1132+00 1133+00 1134+00 1135+00

EROSION CONTORL LEGEND

(A) INLET PROTECTION TYPE A	PROPOSED INLET
(B) INLET PROTECTION TYPE B	PROPOSED STORM SEWER MANHOLE
(C) INLET PROTECTION TYPE C	PROPOSED APRON ENDWALL
(D) INLET PROTECTION TYPE D	SLOPE INTERCEPT
(AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.	RIPRAP MEDIUM / HEAVY
(AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	TEMPORARY DITCH CHECKS
(AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	SILT FENCE
(P) TREE PROTECTION (SEE DETAIL)	CULVERT PIPE CHECKS
	SURFACE WATER FLOW
	EROSION MAT URBAN CLASS I TYPE A
	EROSION MAT CLASS I TYPE B
	EROSION MAT CLASS II TYPE C
	MULCHING

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022007_ec.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

EROSION CONTORL LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE DETAIL)

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- RIPRAP MEDIUM / HEAVY
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCHING

MIDVALE BOULEVARD

DONCASTER DRIVE

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

MATCHLINE STA. 1155+00

WEST BELTLINE FRONTAGE ROAD

WEST VERONA FRONTAGE ROAD

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

BRITTA PARKWAY

AXEL AVENUE

PLAYGROUND

CANOPY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14/18/151 (BELTLINE) AND BP & NP LINES	SHEET 205 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022008_ec.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

EROSION CONTORL LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE DETAIL)

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- RIPRAP MEDIUM / HEAVY
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT CLASS IITYPE C
- MULCHING

N

WHENONA DRIVE

DANBURY STREET

WARWICK WAY

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

WEST BELTLINE FRONTAGE ROAD

MATCHLINE STA. 1155+00

MATCHLINE STA. 1170+00

50+00 WW

51+00 WW

52+00 WW

53+00 WW

54+00 WW

55+00 WW

56+00 WW

57+00 WW

58+00 WW

59+00 WW

60+00 WW

61+00 WW

62+00 WW

63+00 WW

64+00 WW

1156+00

1157+00

1158+00

1159+00

1160+00

1161+00

1162+00

1163+00

1164+00

1165+00

1166+00

1167+00

1168+00

1169+00

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14/18/151 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022009_ec.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

EROSION CONTORL LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE DETAIL)

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- RIPRAP MEDIUM / HEAVY
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCHING

N

SEMINOLE HIGHWAY

WINSLOW LANE

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

WEST BELTLINE FRONTAGE ROAD

S RAMP

MATCHLINE STA. 1170+00

MATCHLINE STA. 1185+00

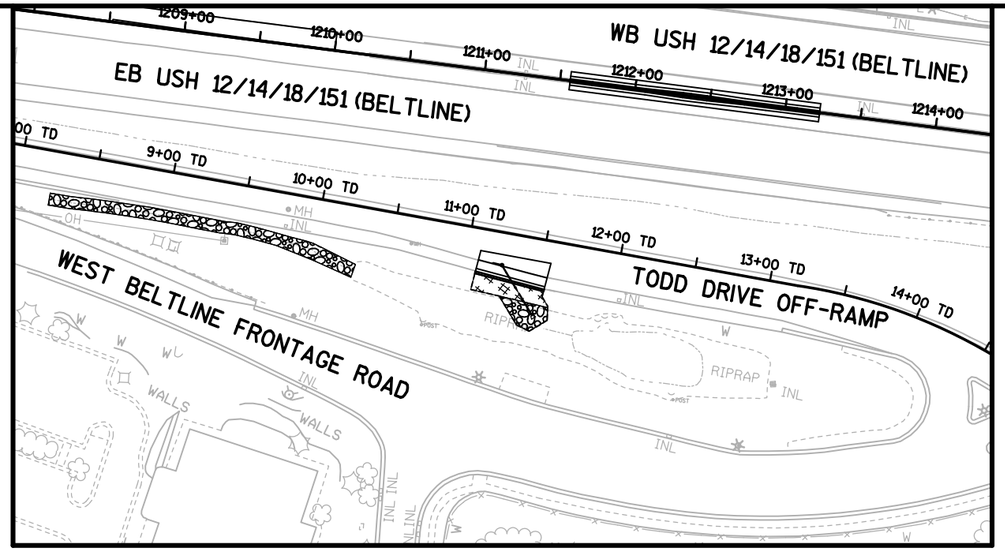
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14/18/151 (BELTLINE) AND SF & S LINES	SHEET	E

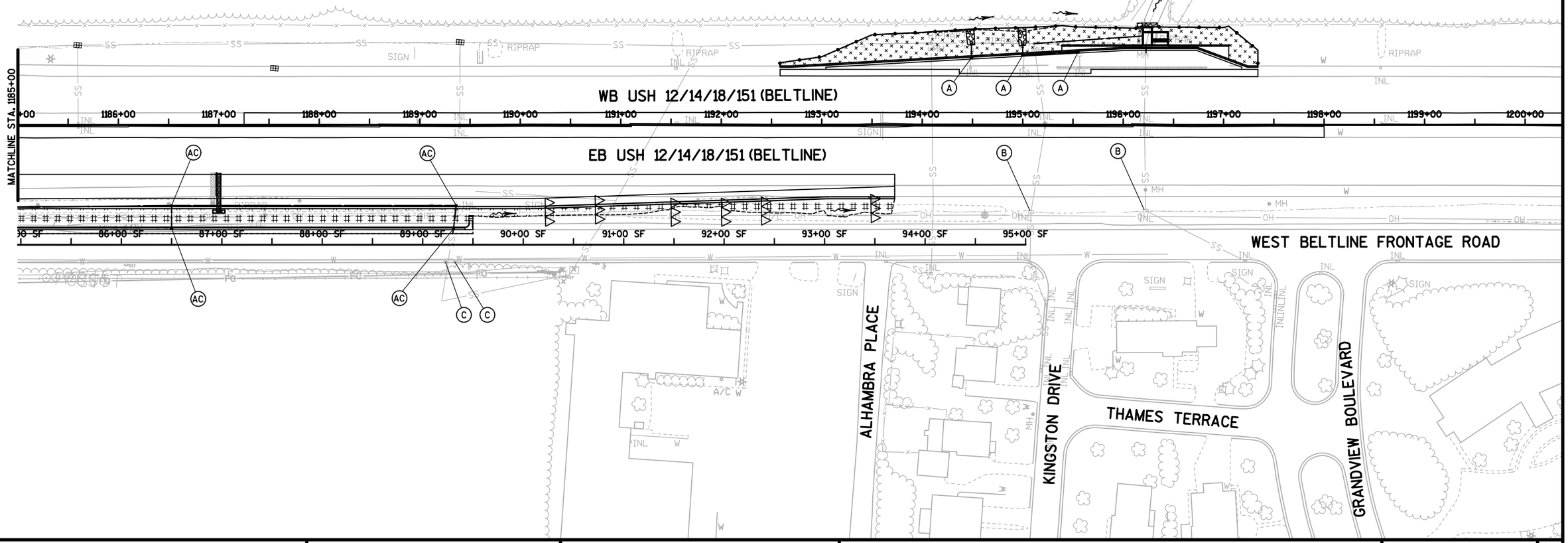
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EROSION CONTORL LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE DETAIL)

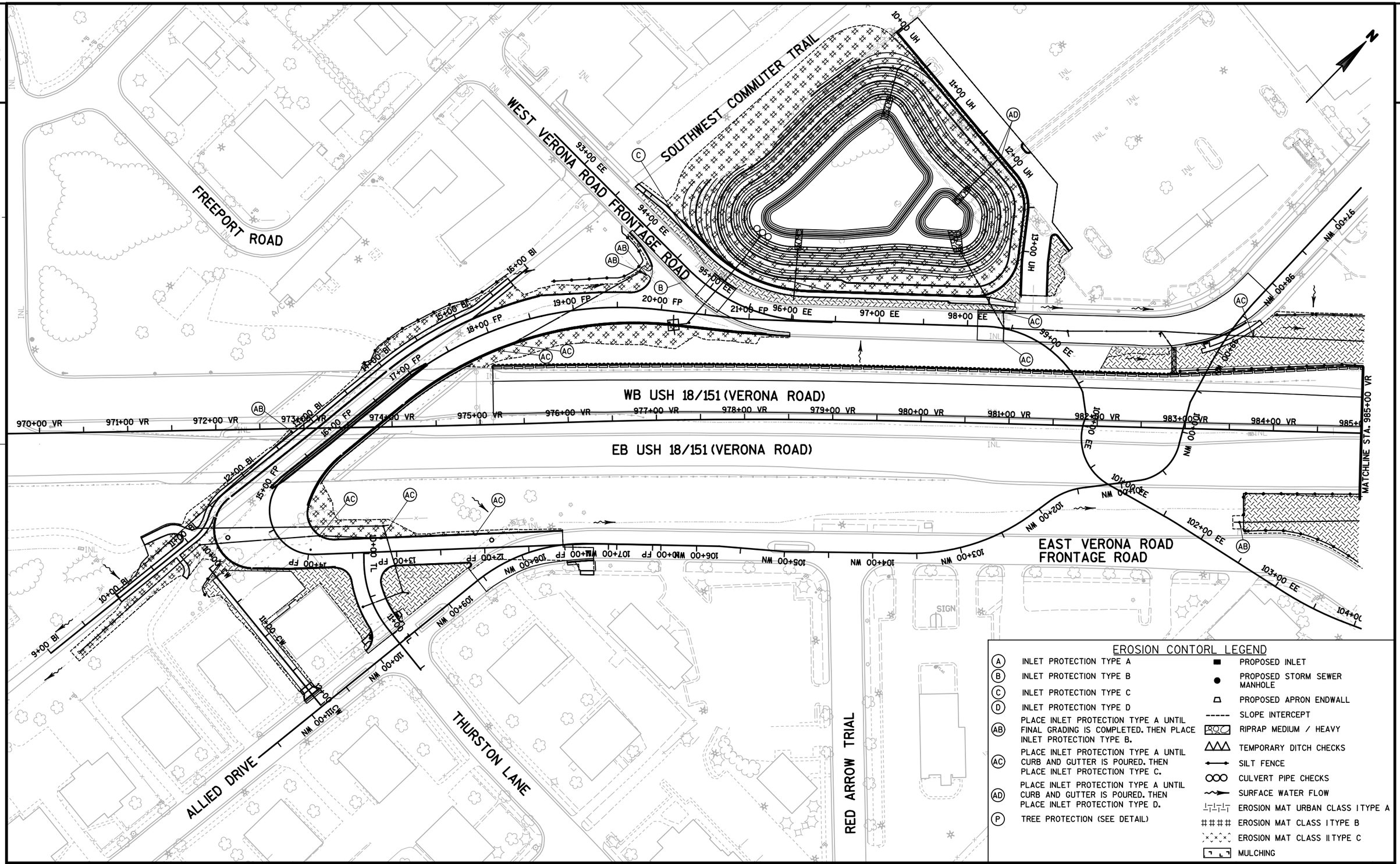
- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- RIPRAP MEDIUM / HEAVY
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT CLASS II TYPE C
- MULCHING





PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 12/14/18/151 (BELTLINE) AND SF & S LINES	SHEET 208	E

2



EROSION CONTORL LEGEND

(A)	INLET PROTECTION TYPE A
(B)	INLET PROTECTION TYPE B
(C)	INLET PROTECTION TYPE C
(D)	INLET PROTECTION TYPE D
(AB)	PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
(P)	TREE PROTECTION (SEE DETAIL)

■	PROPOSED INLET
●	PROPOSED STORM SEWER MANHOLE
⏢	PROPOSED APRON ENDWALL
-----	SLOPE INTERCEPT
	RIPRAP MEDIUM / HEAVY
	TEMPORARY DITCH CHECKS
	SILT FENCE
	CULVERT PIPE CHECKS
	SURFACE WATER FLOW
	EROSION MAT URBAN CLASS I TYPE A
	EROSION MAT CLASS I TYPE B
	EROSION MAT CLASS II TYPE C
	MULCHING

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 18/151 (VERONA ROAD)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022012_ec.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

EROSION CONTORL LEGEND

(A) INLET PROTECTION TYPE A	PROPOSED INLET
(B) INLET PROTECTION TYPE B	PROPOSED STORM SEWER MANHOLE
(C) INLET PROTECTION TYPE C	PROPOSED APRON ENDWALL
(D) INLET PROTECTION TYPE D	SLOPE INTERCEPT
(AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.	RIPRAP MEDIUM / HEAVY
(AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	TEMPORARY DITCH CHECKS
(AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	SILT FENCE
(P) TREE PROTECTION (SEE DETAIL)	CULVERT PIPE CHECKS
	SURFACE WATER FLOW
	EROSION MAT URBAN CLASS I TYPE A
	EROSION MAT CLASS I TYPE B
	EROSION MAT CLASS II TYPE C
	MULCHING

SUMMIT ROAD

WEST VERONA ROAD FRONTAGE ROAD

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

EAST VERONA ROAD FRONTAGE ROAD

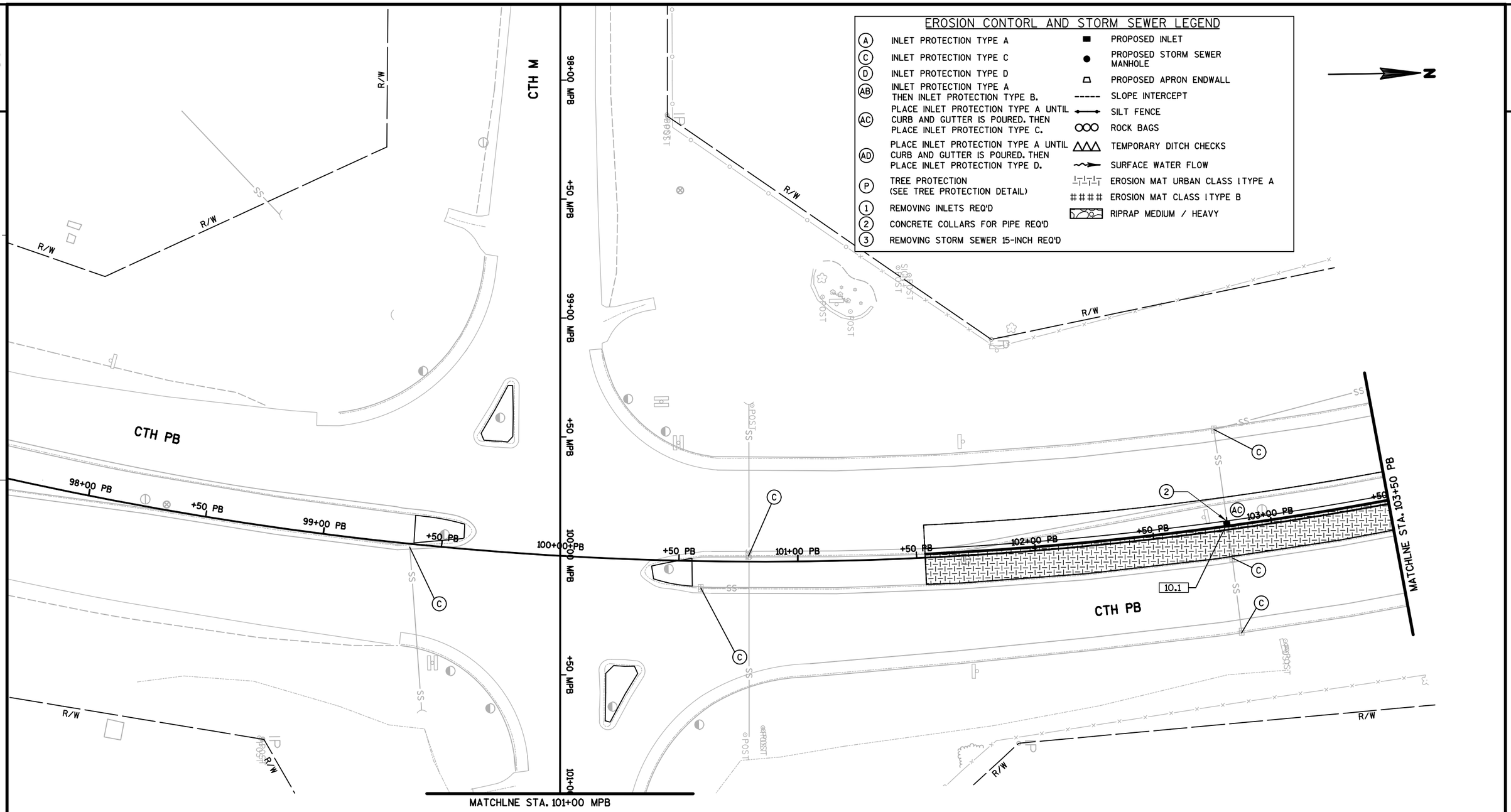
BRITTA PARKWAY

ATTICUS WAY

MATCHLINE STA. 985+00 VR

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - USH 18/151 (VERONA ROAD)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022013_ec.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



STRUCTURE DATA TABLE

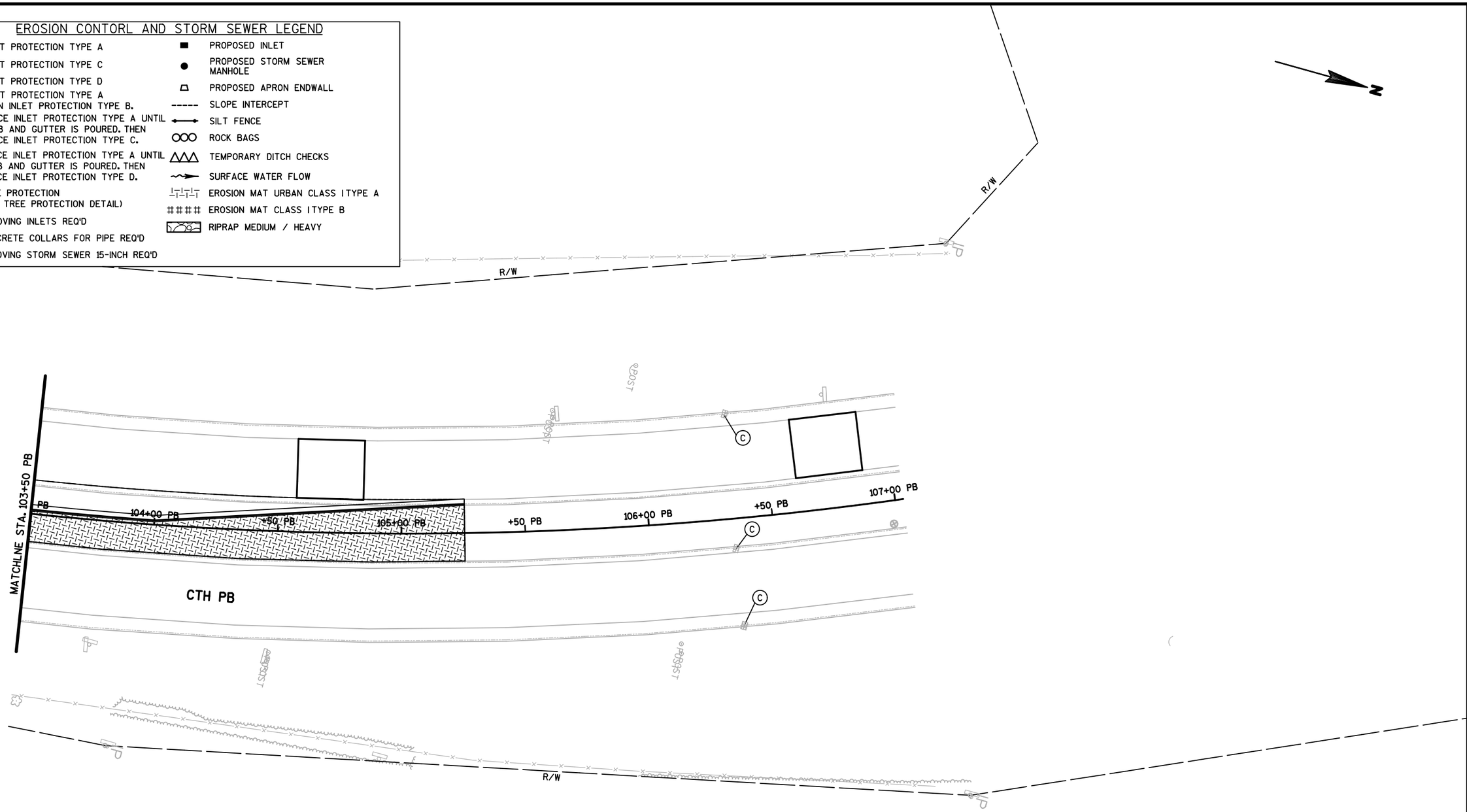
STRUCTURE NO.	STATION	OFFSET	C-C (FT)	TO STRUCTURE	INLET TYPE & COVER	MH TYPE & COVER	GRATE ELVATION	T.O.S. ELEVATION	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEVATION	DISCHARGE PIPE DISCHARGE ELEVATION	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
10.1	102+81.55 PB	2.70 LT	3	EXISTING	2X3, H-S	---	1038.60	1037.60	4.03	18	1033.57	---	3	---	CONNECT TO EXISTING

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - CTH PB AT CTH M	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022015_ec_pb.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	←→	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~→	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS I TYPE A
		####	EROSION MAT CLASS I TYPE B
(1)	REMOVING INLETS REQ'D	▭	RIPRAP MEDIUM / HEAVY
(2)	CONCRETE COLLARS FOR PIPE REQ'D		
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

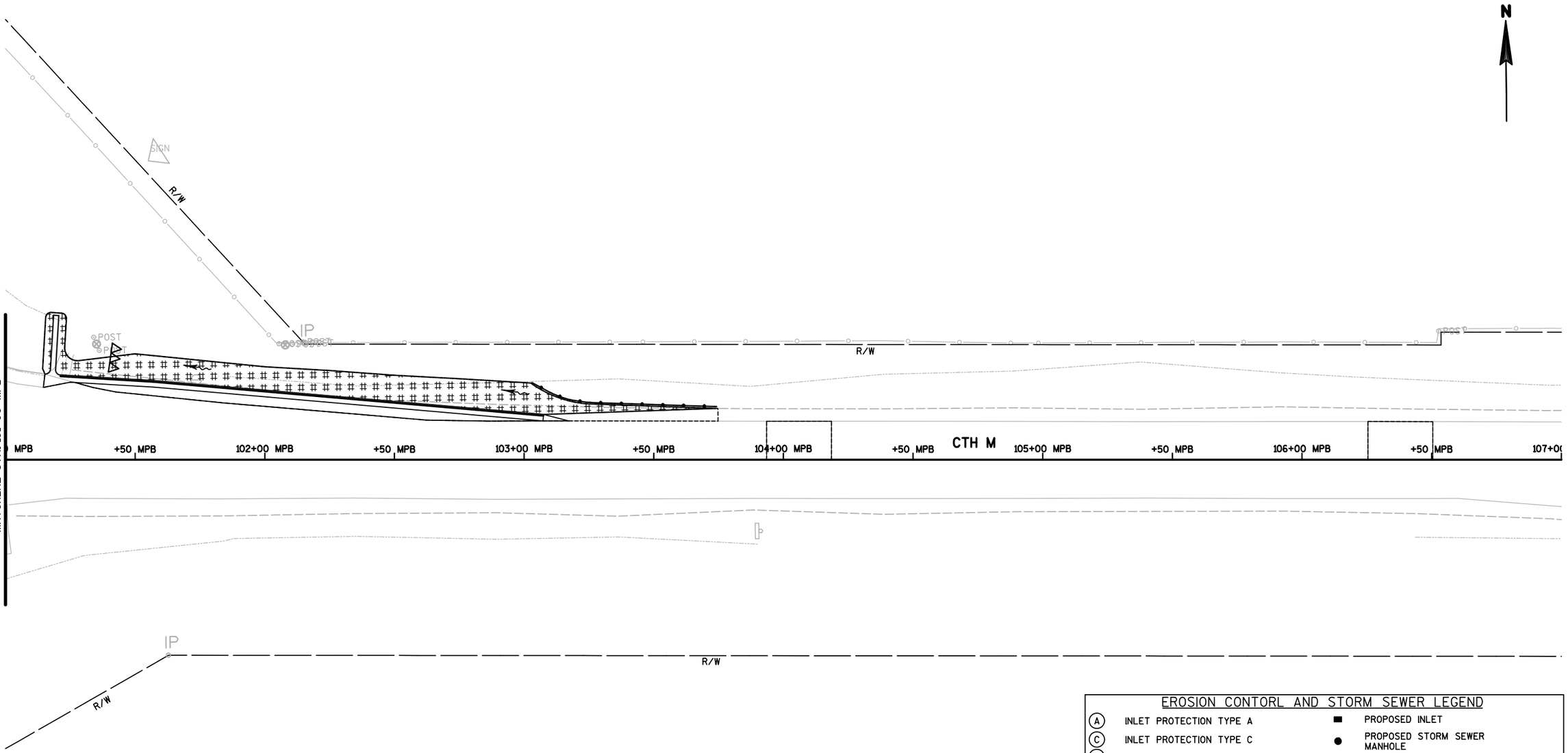


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - CTH PB AT CTH M	SHEET 212	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022016_ec_pb.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2



EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	←→	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~→	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS I TYPE A
		####	EROSION MAT CLASS I TYPE B
(1)	REMOVING INLETS REQ'D	▭	RIPRAP MEDIUM / HEAVY
(2)	CONCRETE COLLARS FOR PIPE REQ'D		
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - CTH M AT CTH PB	SHEET 213	E

EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	——•——	SILT FENCE
		OOO	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~~➤	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS I TYPE A
(1)	REMOVING INLETS REQ'D	####	EROSION MAT CLASS I TYPE B
(2)	CONCRETE COLLARS FOR PIPE REQ'D		RIPRAP MEDIUM / HEAVY
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

N

R/W

T.L.E.

R/W

) MFH | +50 MFH | 92+00 MFH | +50 MFH | 93+00 MFH | +50 MFH | 94+00 MFH | +50 MFH | 95+00 MFH | +50 MFH | 96+00 MFH | +50 MFH | 97+00 MFH

MATCHLINE STA. 97+00 MFH

CTH M

SIGN

POST

R/W

R/W

P.L.

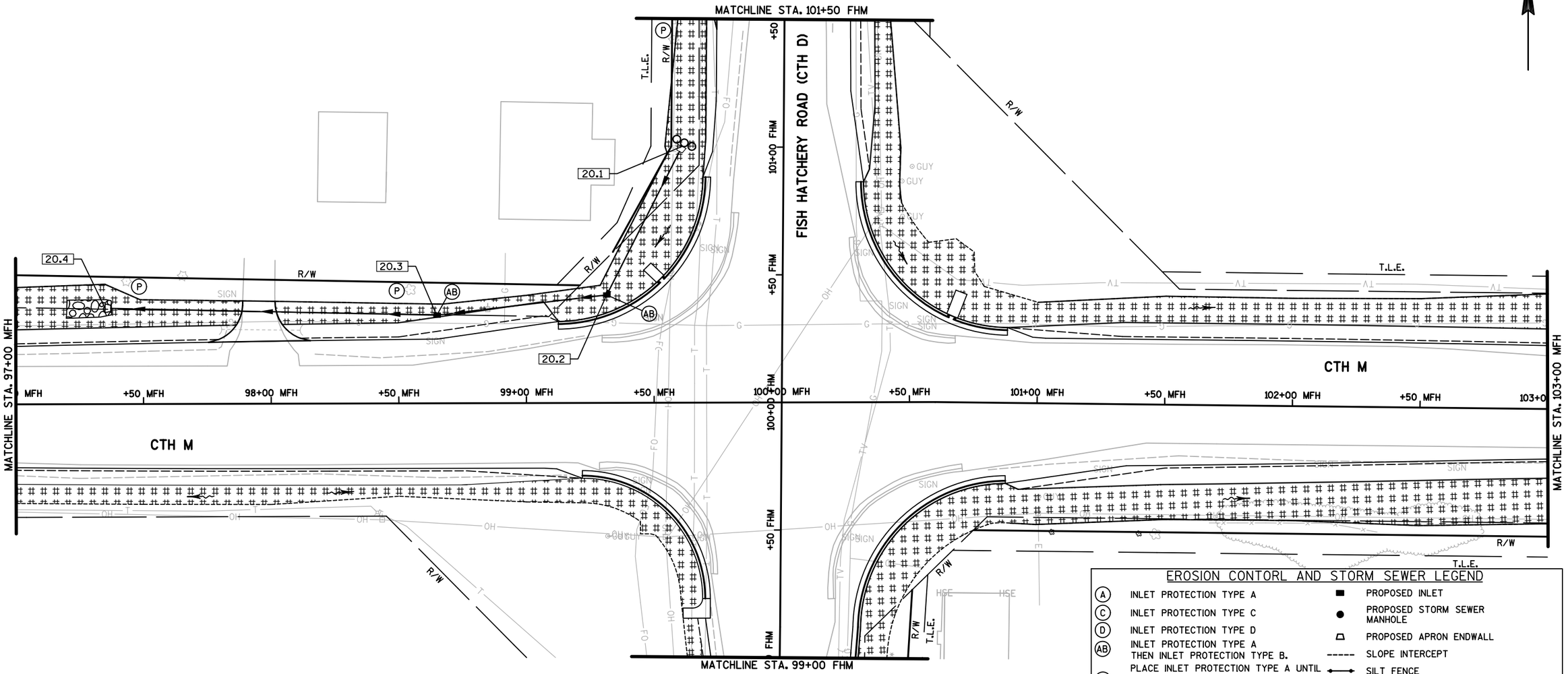
P.L.

P.L.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - CTH M AT FISH HATCHERY	SHEET	E

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STRUCTURE DATA TABLE															
STRUCTURE NO.	STATION	OFFSET	C-C (FT)	TO STRUCTURE	INLET TYPE & COVER	MH TYPE & COVER	GRATE ELVATION	T.O.S. ELEVATION	DEPTH (FT)	DISCHARGE PIPE					REMARKS
										SIZE (IN)	INLET ELEVATION	DISCHARGE ELEVATION	LENGTH (FT)	SLOPE (%)	
20.1	101+00.00 FHM	39.78 LT	59	20.2	---	---	---	---	---	14X23	966.82	966.48	59	0.6	14X23-INCH APRON ENDWALL REQ'D
20.2	99+31.53 MFH	42.28 LT	67	20.3	MED 1, MS	---	968.12	968.12	1.64	14X23	966.48	966.14	67	0.5	
20.3	98+65.00 MFH	34.52 LT	124	20.4	MED 1, MS	---	968.23	968.23	2.09	14X23	966.14	965.52	124	0.5	
20.4	97+35.00 MFH	37.55 LT	---	---	---	---	---	---	---	---	---	---	---	---	14X23-INCH APRON ENDWALL REQ'D



EROSION CONTORL AND STORM SEWER LEGEND

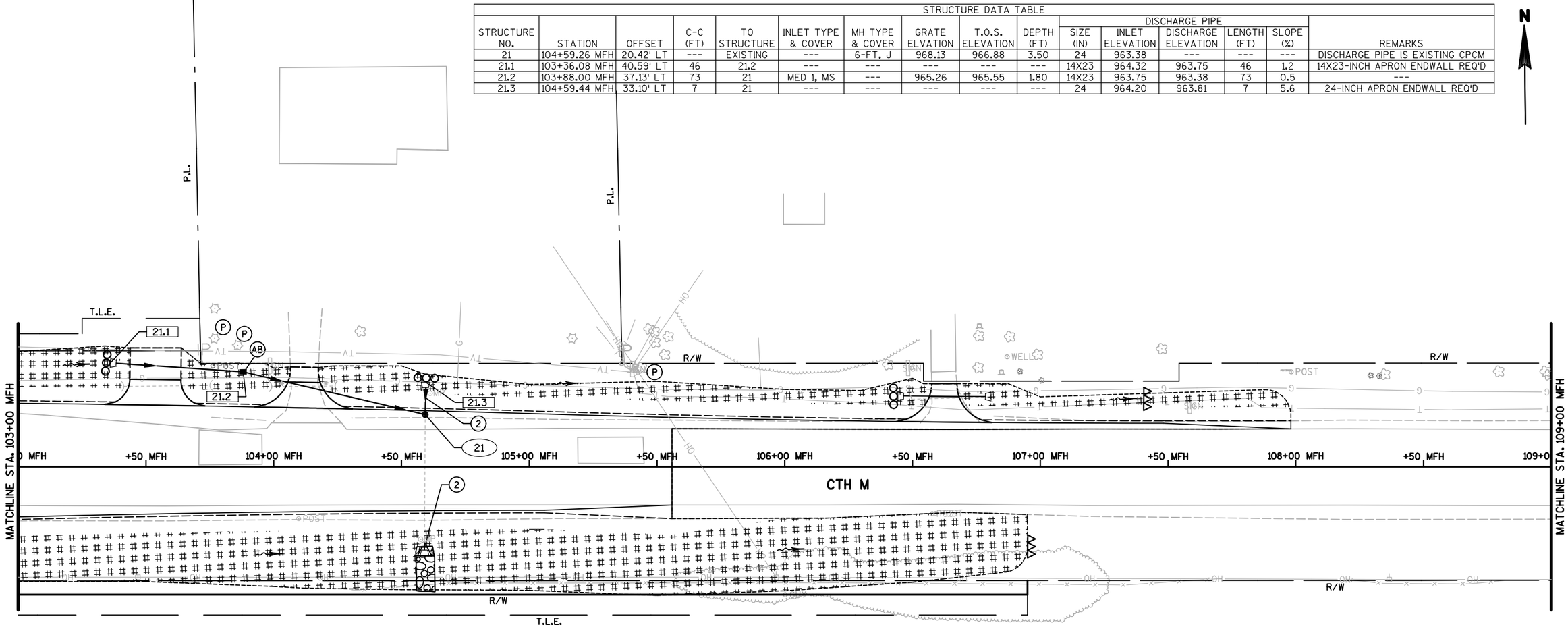
(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	◂—▸	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~~▸	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	┴┴┴┴	EROSION MAT URBAN CLASS I TYPE A
		####	EROSION MAT CLASS I TYPE B
(1)	REMOVING INLETS REQ'D	▭	RIPRAP MEDIUM / HEAVY
(2)	CONCRETE COLLARS FOR PIPE REQ'D		
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - CTH M AT FISH HATCHERY	SHEET 215	E

2

STRUCTURE DATA TABLE

STRUCTURE NO.	STATION	OFFSET	C-C (FT)	TO STRUCTURE	INLET TYPE & COVER	MH TYPE & COVER	GRATE ELVATION	T.O.S. ELEVATION	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEVATION	DISCHARGE PIPE DISCHARGE ELEVATION	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
21	104+59.26 MFH	20.42' LT	---	EXISTING	---	6-FT, J	968.13	966.88	3.50	24	963.38	---	---	---	DISCHARGE PIPE IS EXISTING CPCM
21.1	103+36.08 MFH	40.59' LT	46	21.2	---	---	---	---	---	14X23	964.32	963.75	46	1.2	14X23-INCH APRON ENDWALL REQ'D
21.2	103+88.00 MFH	37.13' LT	73	21	MED 1, MS	---	965.26	965.55	1.80	14X23	963.75	963.38	73	0.5	---
21.3	104+59.44 MFH	33.10' LT	7	21	---	---	---	---	---	24	964.20	963.81	7	5.6	24-INCH APRON ENDWALL REQ'D



EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	←→	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~→	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS I TYPE A
(1)	REMOVING INLETS REQ'D	####	EROSION MAT CLASS I TYPE B
(2)	CONCRETE COLLARS FOR PIPE REQ'D	▭	RIPRAP MEDIUM / HEAVY
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - CTH M AT FISH HATCHERY	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022020_ec_mfh.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

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N

P.L.

P.L.

R/W

R/W

FHM +50 FHM 94+00 FHM +50 FHM 95+00 FHM +50 FHM 96+00 FHM +50 FHM 97+00 FHM +50 FHM 98+00 FHM +50 FHM 99+0

MATCHLINE STA. 99+00 FHM

FISH HATCHERY ROAD (CTH D)

R/W

T.L.E.

R/W

P.L.

EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	◆—◆	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~~→	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS I TYPE A
		####	EROSION MAT CLASS I TYPE B
(1)	REMOVING INLETS REQ'D		RIPRAP MEDIUM / HEAVY
(2)	CONCRETE COLLARS FOR PIPE REQ'D		
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

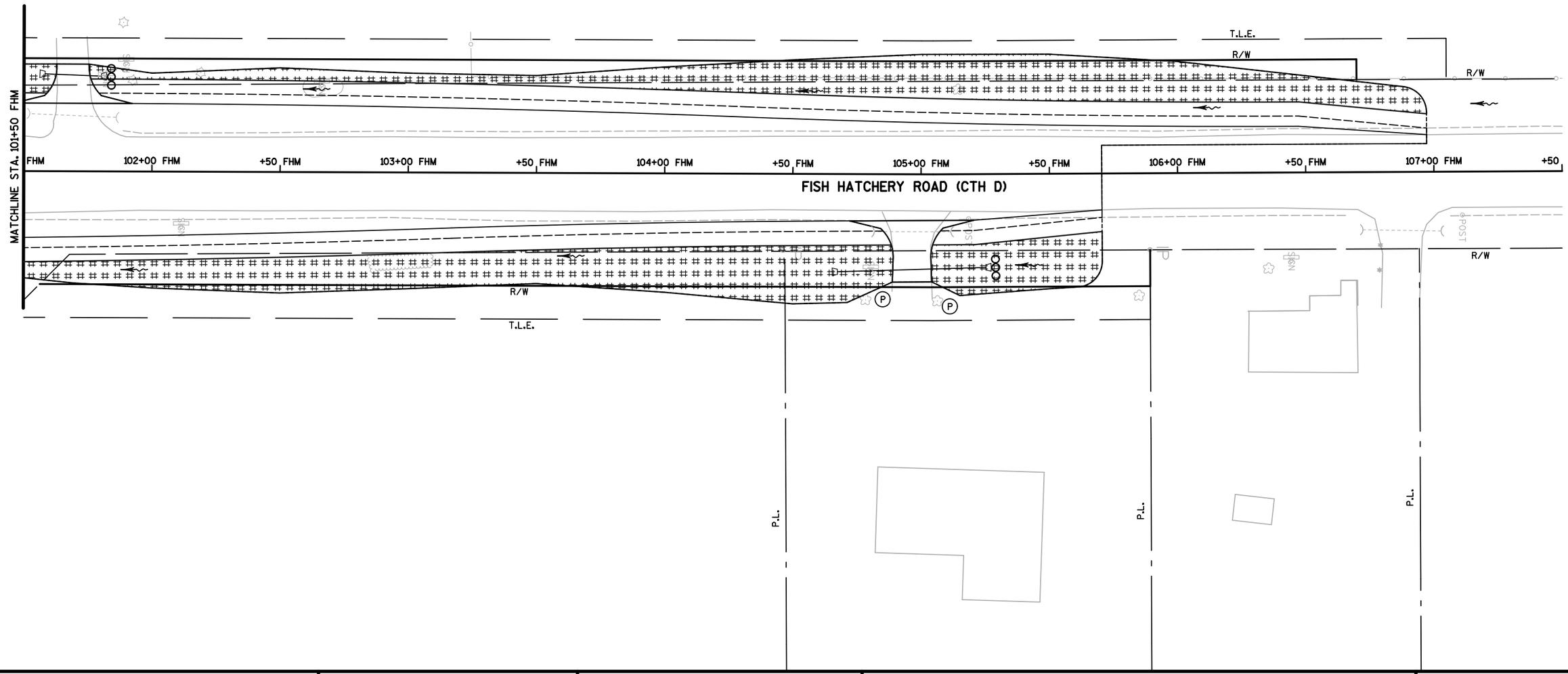
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - FISH HATCHERY AT CTH M	SHEET 217	E

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EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	◆—◆	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~~➤	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS ITYPE A
(1)	REMOVING INLETS REQ'D	####	EROSION MAT CLASS ITYPE B
(2)	CONCRETE COLLARS FOR PIPE REQ'D	▭	RIPRAP MEDIUM / HEAVY
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

N



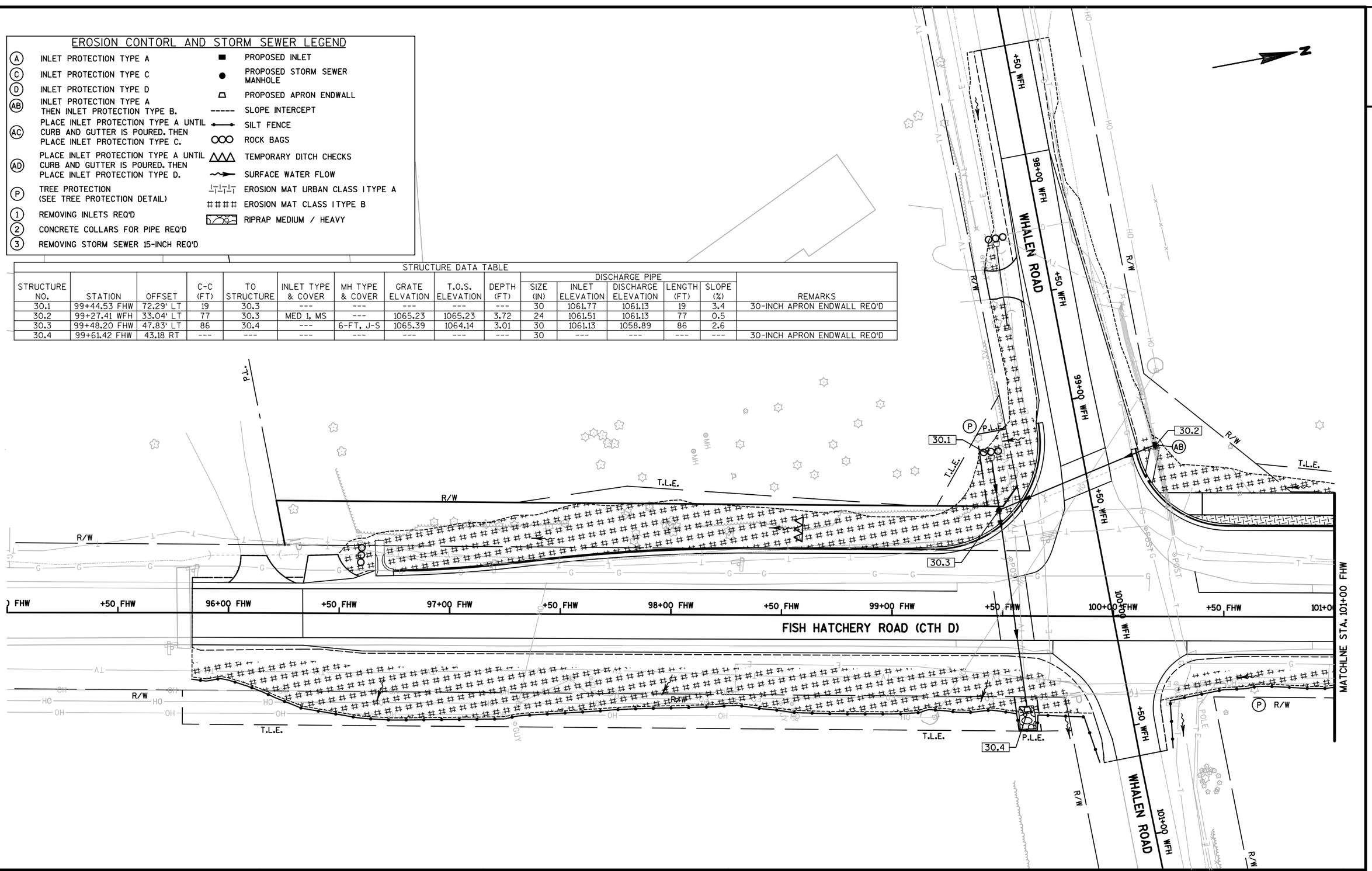
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - FISH HATCHERY AT CTH M	SHEET 218	E

EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	⟷	SILT FENCE
		OOO	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~~►	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊤⊤⊤⊤	EROSION MAT URBAN CLASS I TYPE A
		####	EROSION MAT CLASS I TYPE B
(1)	REMOVING INLETS REQ'D	▭	RIPRAP MEDIUM / HEAVY
(2)	CONCRETE COLLARS FOR PIPE REQ'D		
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

STRUCTURE DATA TABLE

STRUCTURE NO.	STATION	OFFSET	C-C (FT)	TO STRUCTURE	INLET TYPE & COVER	MH TYPE & COVER	GRATE ELVATION	T.O.S. ELEVATION	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEVATION	DISCHARGE PIPE DISCHARGE ELEVATION	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
30.1	99+44.53 FHW	72.29' LT	19	30.3	---	---	---	---	---	30	1061.77	1061.13	19	3.4	30-INCH APRON ENDWALL REQ'D
30.2	99+27.41 WFH	33.04' LT	77	30.3	MED 1, MS	---	1065.23	1065.23	3.72	24	1061.51	1061.13	77	0.5	
30.3	99+48.20 FHW	47.83' LT	86	30.4	---	6-FT, J-S	1065.39	1064.14	3.01	30	1061.13	1058.89	86	2.6	
30.4	99+61.42 FHW	43.18 RT	---	---	---	---	---	---	---	30	---	---	---	---	30-INCH APRON ENDWALL REQ'D



EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	◆—◆	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~~➤	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥	EROSION MAT URBAN CLASS I TYPE A
(1)	REMOVING INLETS REQ'D	#####	EROSION MAT CLASS I TYPE B
(2)	CONCRETE COLLARS FOR PIPE REQ'D	▭	RIPRAP MEDIUM / HEAVY
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

N

P.L.

T.L.E.

R/W

MATCHLNE STA. 101+00

101+00 FHW

+50 FHW

102+00 FHW

+50 FHW

103+00 FHW

+50 FHW

104+00 FHW

+50 FHW

105+00 FHW

+50 FHW

106+00 FHW

+50 FHW

107+0

MATCHLNE STA. 107+00 FHW

FISH HATCHERY ROAD (CTH D)

R/W

R/W

P.L.

P.L.

P P P

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - FISH HATCHERY AT WHALEN	SHEET 220	E

EROSION CONTORL AND STORM SEWER LEGEND

- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE TREE PROTECTION DETAIL)
- (1) REMOVING INLETS REQ'D
- (2) CONCRETE COLLARS FOR PIPE REQ'D
- (3) REMOVING STORM SEWER 15-INCH REQ'D

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- SILT FENCE
- ROCK BAGS
- TEMPORARY DITCH CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- RIPRAP MEDIUM / HEAVY

N

STRUCTURE DATA TABLE

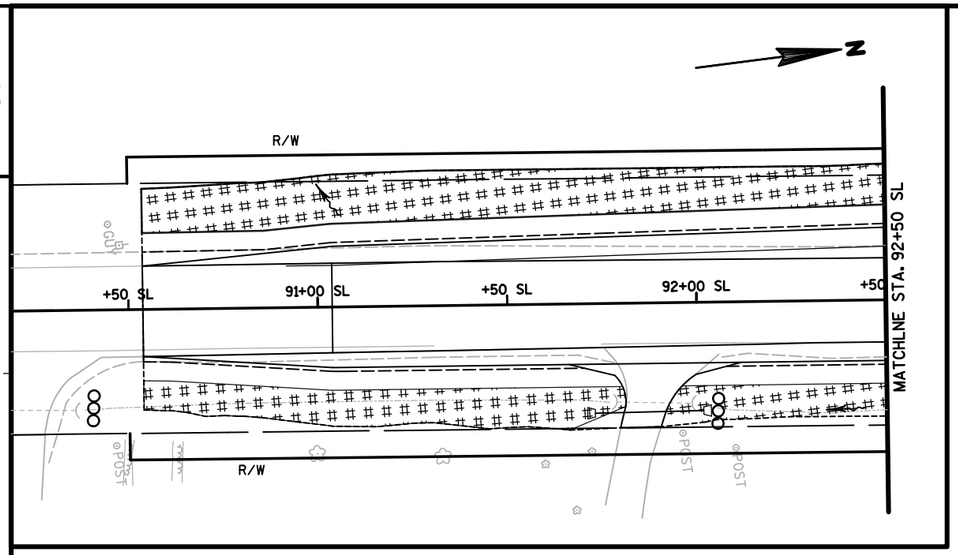
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30.5	108+97.58 FHW	32.69' LT	56	30.6	---	---	---	---	---	18	1059.50	1059.27	56	0.4	18-INCH APRON ENDWALL REQ'D
30.6	108+39.47 FHW	29.25' LT	48	30.7	MED 1, MS	---	1061.07	1061.07	1.80	18	1059.27	1056.52	48	5.7	---
EXISTING	108+39.02 FHW	22.33' LT	7	30.6	---	---	---	---	---	12	1059.45	1059.27	7	2.6	CONNECT TO EXISTING
30.7	108+26.25 FHW	81.40' LT	---	---	---	---	---	---	---	18	1056.52	---	---	---	18-INCH APRON ENDWALL REQ'D

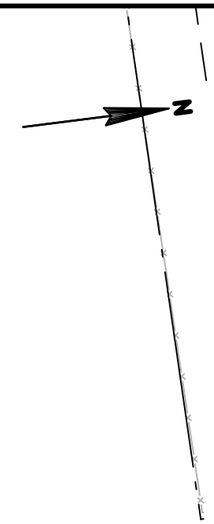
30.7
30.5
30.6
R/W
FISH HATCHERY ROAD (CTH D)
MATCHLNE STA. 107+00 FHW
0 FHW
+50 FHW
108+00 FHW
+50 FHW
109+00 FHW
+50 FHW
110+00 FHW
+50 FHW
111+00 FHW
+50 FHW
112+00 FHW
POST
P.I.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - FISH HATCHERY AT WHALEN	SHEET	E

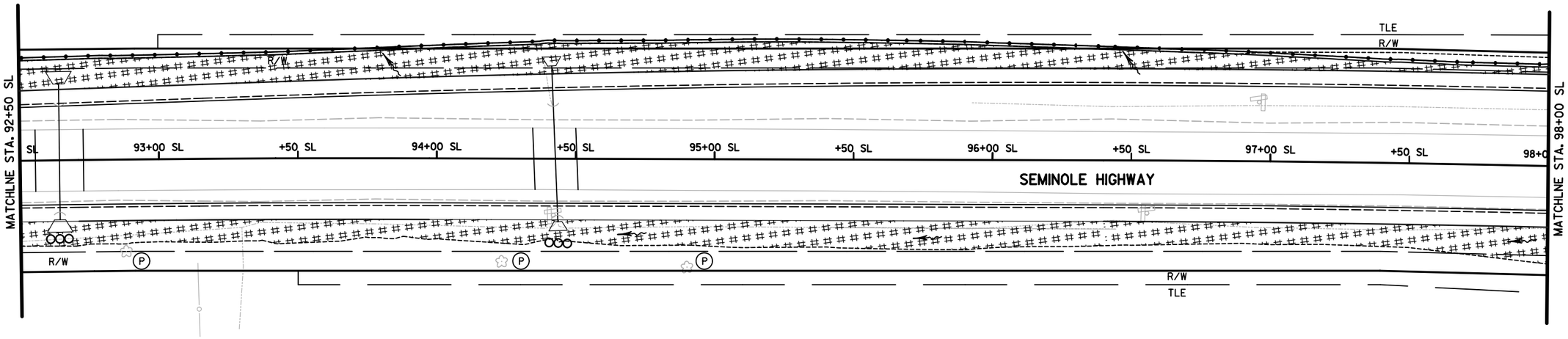
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WISDOT/CADDS SHEET 42





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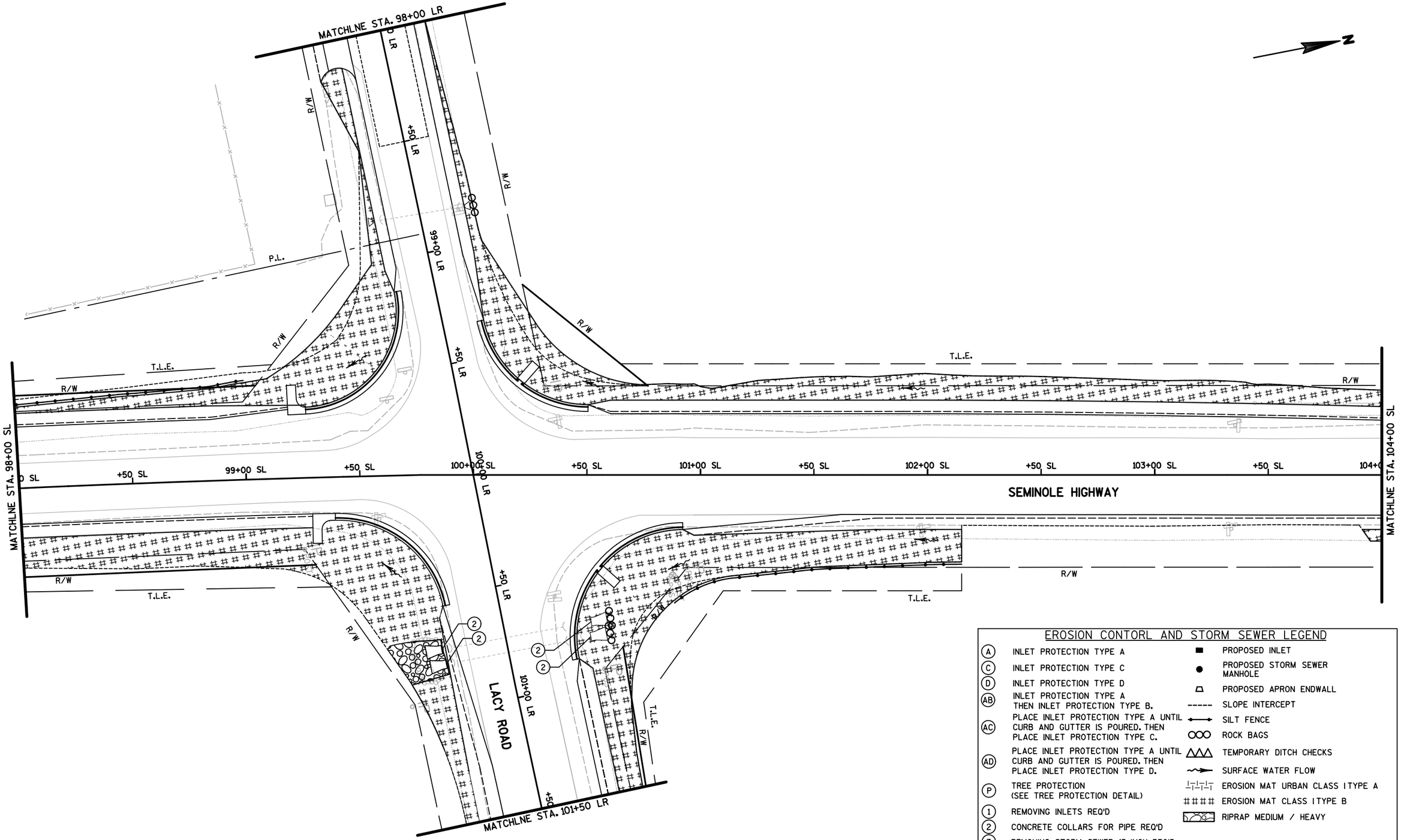


EROSION CONTORL AND STORM SEWER LEGEND

A	INLET PROTECTION TYPE A	■	PROPOSED INLET
C	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
D	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
AB	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
AC	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	⟷	SILT FENCE
		○○○	ROCK BAGS
AD	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		⇝	SURFACE WATER FLOW
P	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS ITYPE A
		####	EROSION MAT CLASS ITYPE B
1	REMOVING INLETS REQ'D	▭	RIPRAP MEDIUM / HEAVY
2	CONCRETE COLLARS FOR PIPE REQ'D		
3	REMOVING STORM SEWER 15-INCH REQ'D		

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - SEMINOLE HWY AT LACY	SHEET 222 E

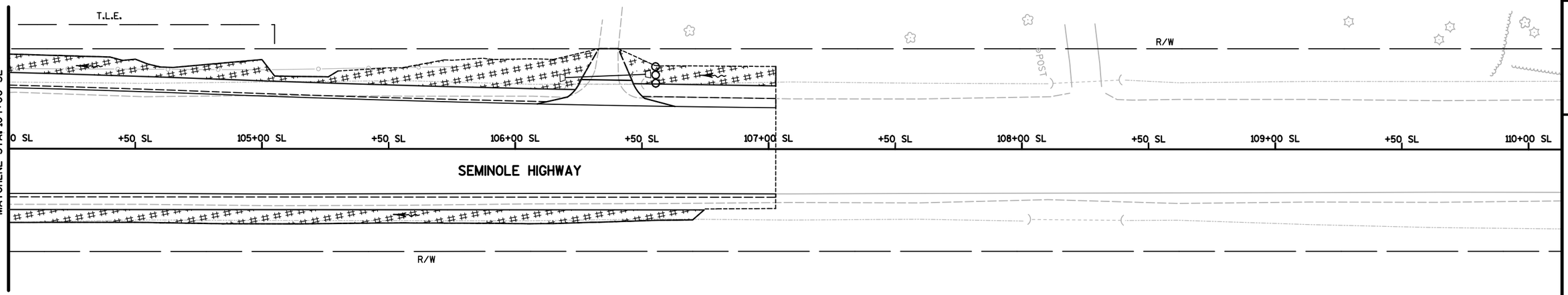
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EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	—•—	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~→	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥	EROSION MAT URBAN CLASS ITYPE A
		####	EROSION MAT CLASS ITYPE B
(1)	REMOVING INLETS REQ'D	▭	RIPRAP MEDIUM / HEAVY
(2)	CONCRETE COLLARS FOR PIPE REQ'D		
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

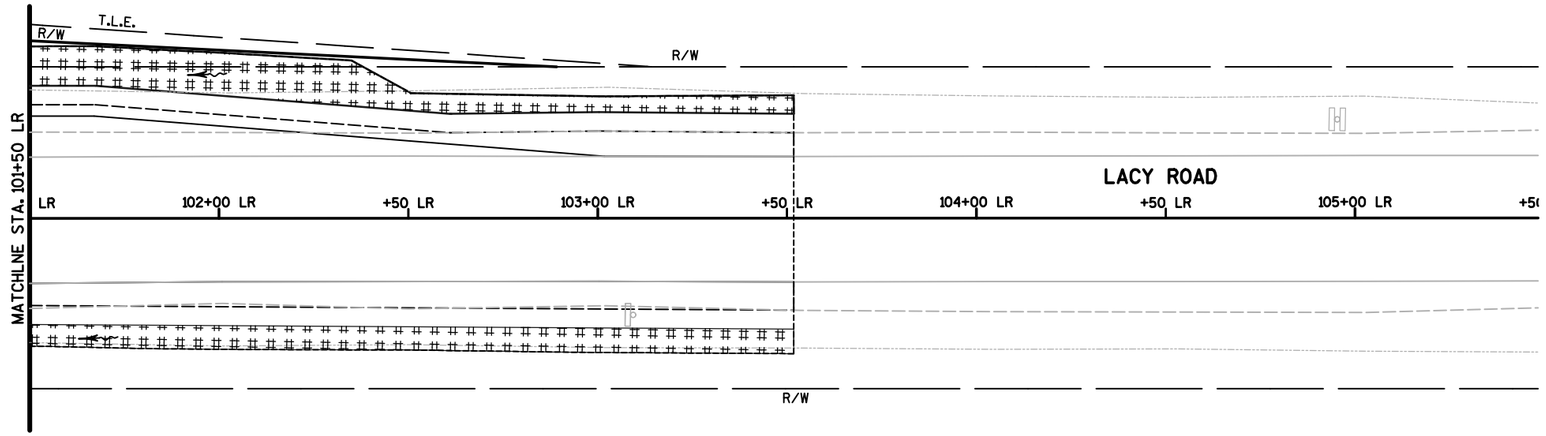
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - SEMINOLE HWY AT LACY	SHEET 223	E



EROSION CONTORL AND STORM SEWER LEGEND

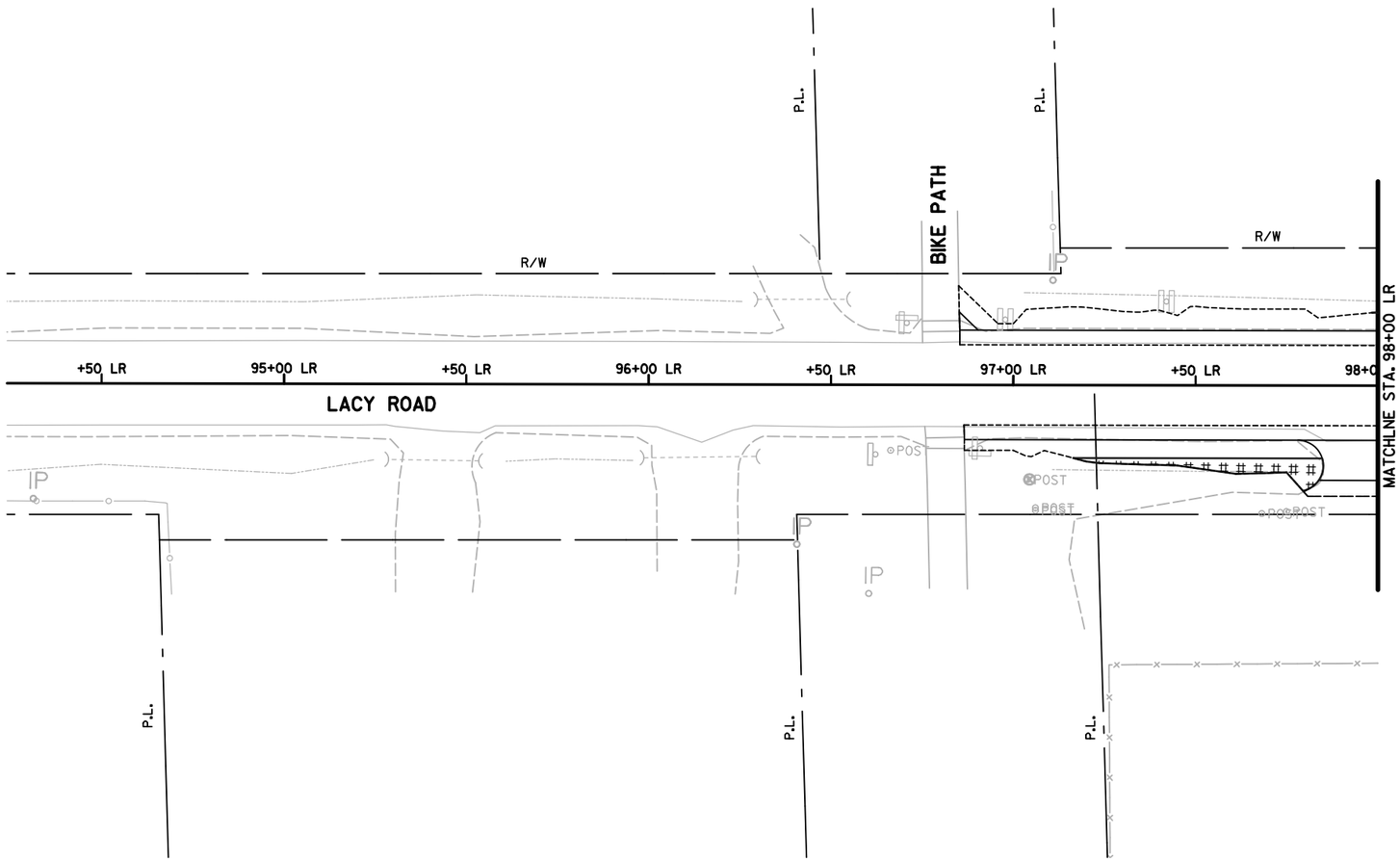
(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	◆—◆	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~~→	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS ITYPE A
		####	EROSION MAT CLASS ITYPE B
(1)	REMOVING INLETS REQ'D	▭	RIPRAP MEDIUM / HEAVY
(2)	CONCRETE COLLARS FOR PIPE REQ'D		
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - SEMINOLE HWY AT LACY	SHEET 224	E





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EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⊓	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	◆——	SILT FENCE
		OOO	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~~→	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS ITYPE A
		####	EROSION MAT CLASS ITYPE B
(1)	REMOVING INLETS REQ'D		RIPRAP MEDIUM / HEAVY
(2)	CONCRETE COLLARS FOR PIPE REQ'D		
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

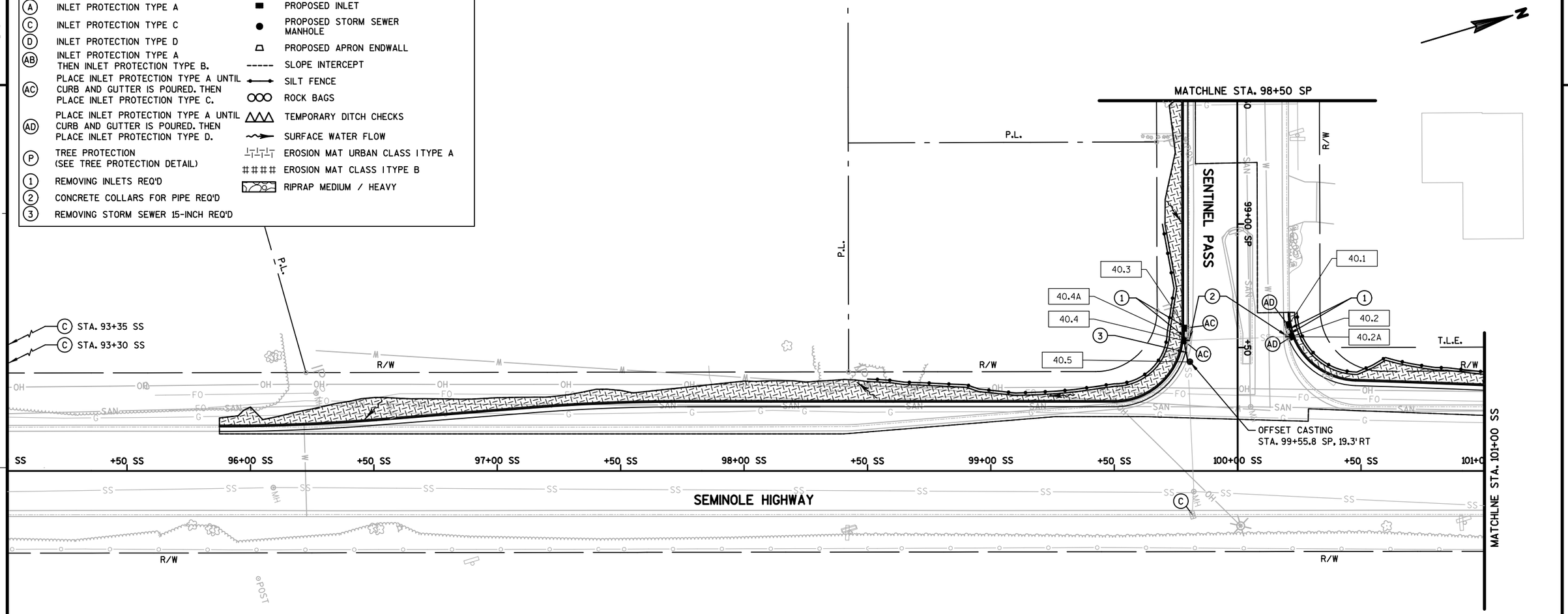
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - LACY AT SEMINOLE HWY	SHEET	E

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EROSION CONTORL AND STORM SEWER LEGEND

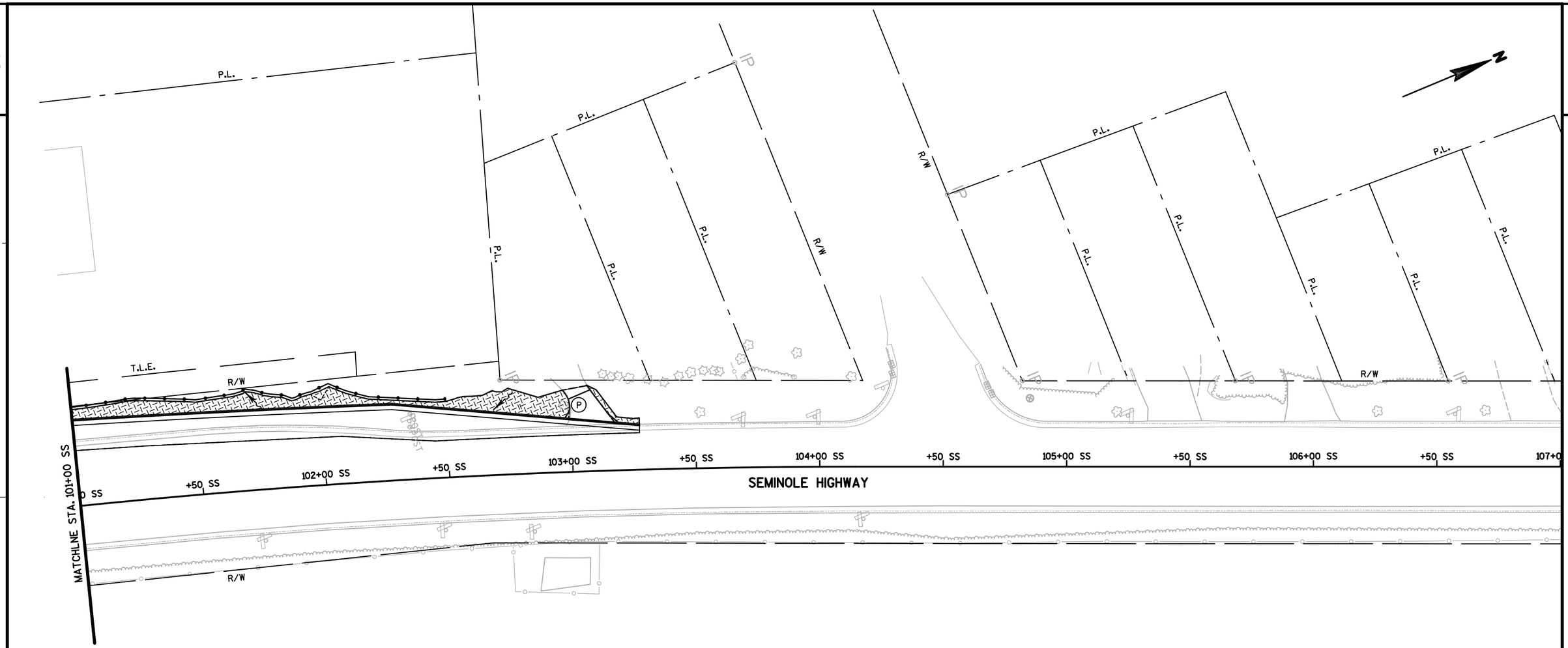
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE TREE PROTECTION DETAIL)
- (1) REMOVING INLETS REQ'D
- (2) CONCRETE COLLARS FOR PIPE REQ'D
- (3) REMOVING STORM SEWER 15-INCH REQ'D

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- SILT FENCE
- ROCK BAGS
- TEMPORARY DITCH CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM / HEAVY



STRUCTURE DATA TABLE

STRUCTURE NO.	STATION	OFFSET	C-C (FT)	TO STRUCTURE	INLET TYPE & COVER	MH TYPE & COVER	GRATE ELVATION	T.O.S. ELEVATION	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEVATION	DISCHARGE PIPE DISCHARGE ELEVATION	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
40.1	99+40.76 SP	20.63 LT	5	40.2	2X3, H-S	---	949.96	949.13	2.00	12	947.13	946.98	5	3.0	
40.2	99+45.57 SP	21.99 LT	3	40.2A	2X3, H-S	---	949.81	948.98	2.00	12	946.98	946.93	3	1.7	
40.2A	99+45.66 SP	19.45 LT	---	EXISTING	---	---	---	---	---	12	946.93	---	---	---	CONNECT TO EXISTING
40.3	99+42.14 SP	21.50 RT	5	40.4	2X3, H	---	949.75	948.92	2.33	12	946.59	946.43	5	3.2	
40.4	99+47.21 SP	21.70 RT	9	40.5	2X3, H	---	949.57	948.74	2.31	15	946.43	946.40	9	0.3	
40.4A	99+47.12 SP	19.49 RT	2	40.4	---	---	---	---	---	12	946.44	946.43	2	0.5	CONNECT TO EXISTING
40.5	99+55.80 SP	20.10 RT	---	EXISTING	---	4-FT, J-S	949.90	948.65	2.25	---	946.40	---	---	---	CONNECT TO EXISTING; OFFSET CASTING



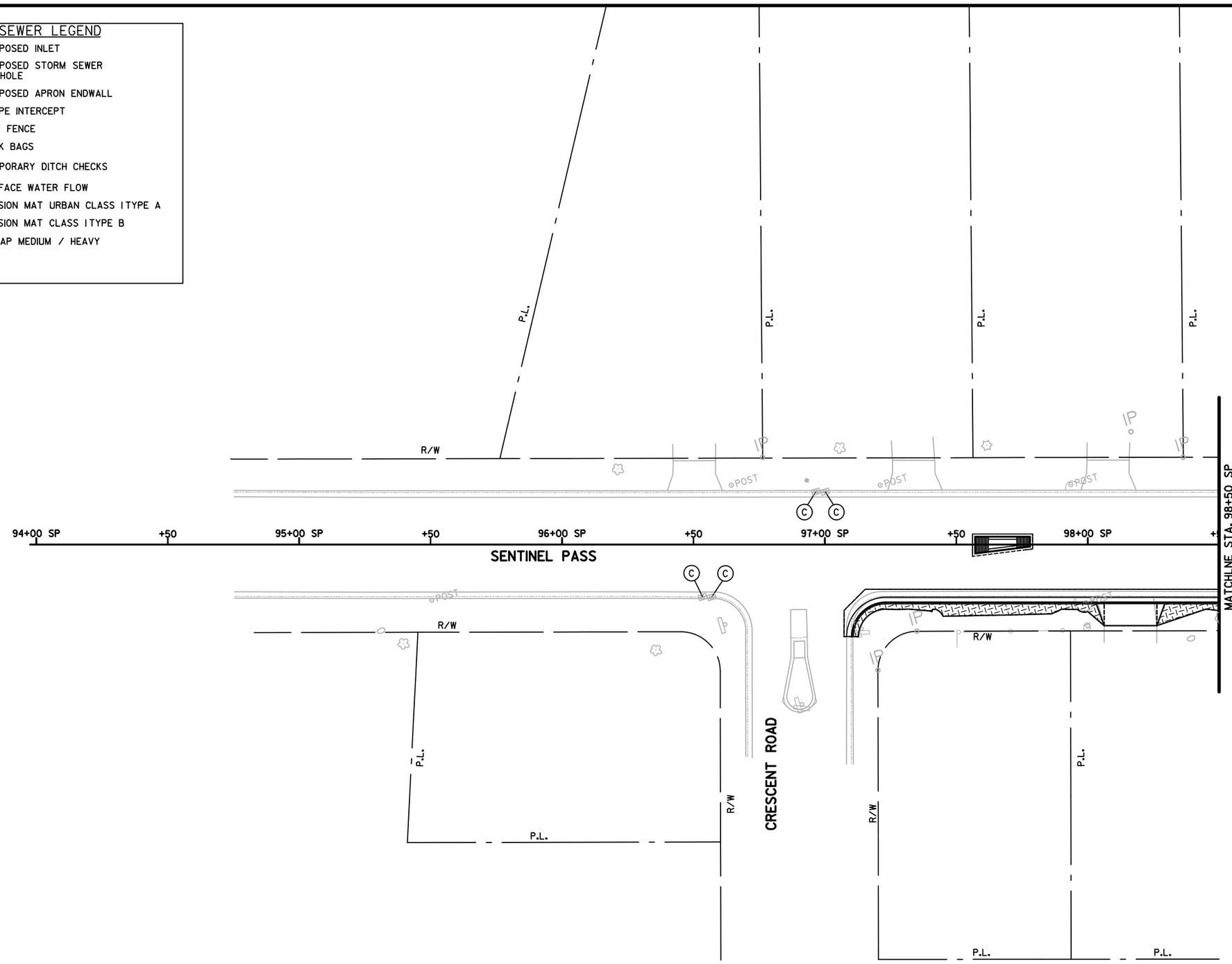
EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	←→	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~→	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS I TYPE A
		####	EROSION MAT CLASS I TYPE B
(1)	REMOVING INLETS REQ'D		RIPRAP MEDIUM / HEAVY
(2)	CONCRETE COLLARS FOR PIPE REQ'D		
(3)	REMOVING STORM SEWER 15-INCH REQ'D		

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - SEMINOLE AT SENTINEL	SHEET 227	E

EROSION CONTORL AND STORM SEWER LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(C)	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
(D)	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
(AB)	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	⟷	SILT FENCE
		○○○	ROCK BAGS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~~➤	SURFACE WATER FLOW
(P)	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS ITYPE A
		#####	EROSION MAT CLASS ITYPE B
(1)	REMOVING INLETS REQ'D		RIPRAP MEDIUM / HEAVY
(2)	CONCRETE COLLARS FOR PIPE REQ'D		
(3)	REMOVING STORM SEWER 15-INCH REQ'D		



2

2

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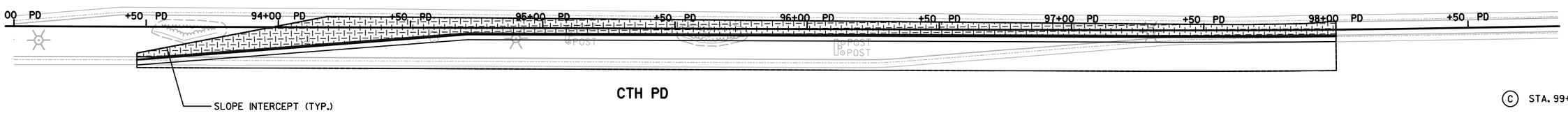
R/W

Ⓒ STA. 91+65 PD, LT

Ⓒ STA. 91+24 PD, LT

Ⓒ STA. 99+51 PD, LT

CTH PD



CTH PD

SLOPE INTERCEPT (TYP.)

Ⓒ STA. 99+33 PD, RT

NOTE:
CENTER OF CTH PD - SEMINOLE HIGHWAY INTERSECTION IS LOCATED AT STA. 100+00 PD

EROSION CONTORL AND STORM SEWER LEGEND

Ⓐ	INLET PROTECTION TYPE A	■	PROPOSED INLET
Ⓒ	INLET PROTECTION TYPE C	●	PROPOSED STORM SEWER MANHOLE
Ⓓ	INLET PROTECTION TYPE D	⏢	PROPOSED APRON ENDWALL
ⒶⒷ	INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.	-----	SLOPE INTERCEPT
ⒶⒸ	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.	◆—◆	SILT FENCE
		○○○	ROCK BAGS
ⒶⒹ	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.	△△△	TEMPORARY DITCH CHECKS
		~~→	SURFACE WATER FLOW
Ⓟ	TREE PROTECTION (SEE TREE PROTECTION DETAIL)	⊥⊥⊥⊥	EROSION MAT URBAN CLASS I TYPE A
		####	EROSION MAT CLASS I TYPE B
①	REMOVING INLETS REQ'D		RIPRAP MEDIUM / HEAVY
②	CONCRETE COLLARS FOR PIPE REQ'D		
③	REMOVING STORM SEWER 15-INCH REQ'D		

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - CTH PD AT SEMINOLE HWY	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022034_ec_pd.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

EROSION CONTORL AND STORM SEWER LEGEND

- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) INLET PROTECTION TYPE A THEN INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE TREE PROTECTION DETAIL)
- (1) REMOVING INLETS REQ'D
- (2) CONCRETE COLLARS FOR PIPE REQ'D
- (3) REMOVING STORM SEWER 15-INCH REQ'D

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- SILT FENCE
- ROCK BAGS
- TEMPORARY DITCH CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- RIPRAP MEDIUM / HEAVY

STRUCTURE DATA TABLE

STRUCTURE NO.	STATION	OFFSET	C-C (FT)	TO STRUCTURE	INLET TYPE & COVER	MH TYPE & COVER	GRATE ELVATION	T.O.S. ELEVATION	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEVATION	DISCHARGE PIPE DISCHARGE ELEVATION	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
50.2	100+04.86 W	24.26 RT	5	50.1	2X3, H-S	---	982.34	981.34	1.54	12	979.80	979.77	5	0.6	
50.1	100+04.45 W	29.00 RT	94	EXISTING	---	3-FT, J-S	982.72	981.48	1.71	12	979.77	979.30	94	0.5	
EXISTING	99+15.68 W	31.48 RT	---	---	---	---	---	---	---	12	979.30	---	---	---	STORM SEWER TAP REQ'D
50.4	98+44.93 W	27.51 RT	10	50.3	2X3, H-S	---	982.21	981.21	2.37	12	978.84	978.79	10	0.5	
50.3	98+54.46 W	30.27 RT	---	EXISTING	---	3-FT, J-S	982.33	981.09	2.30	12	978.79	---	---	---	CONNECT TO EXISTING

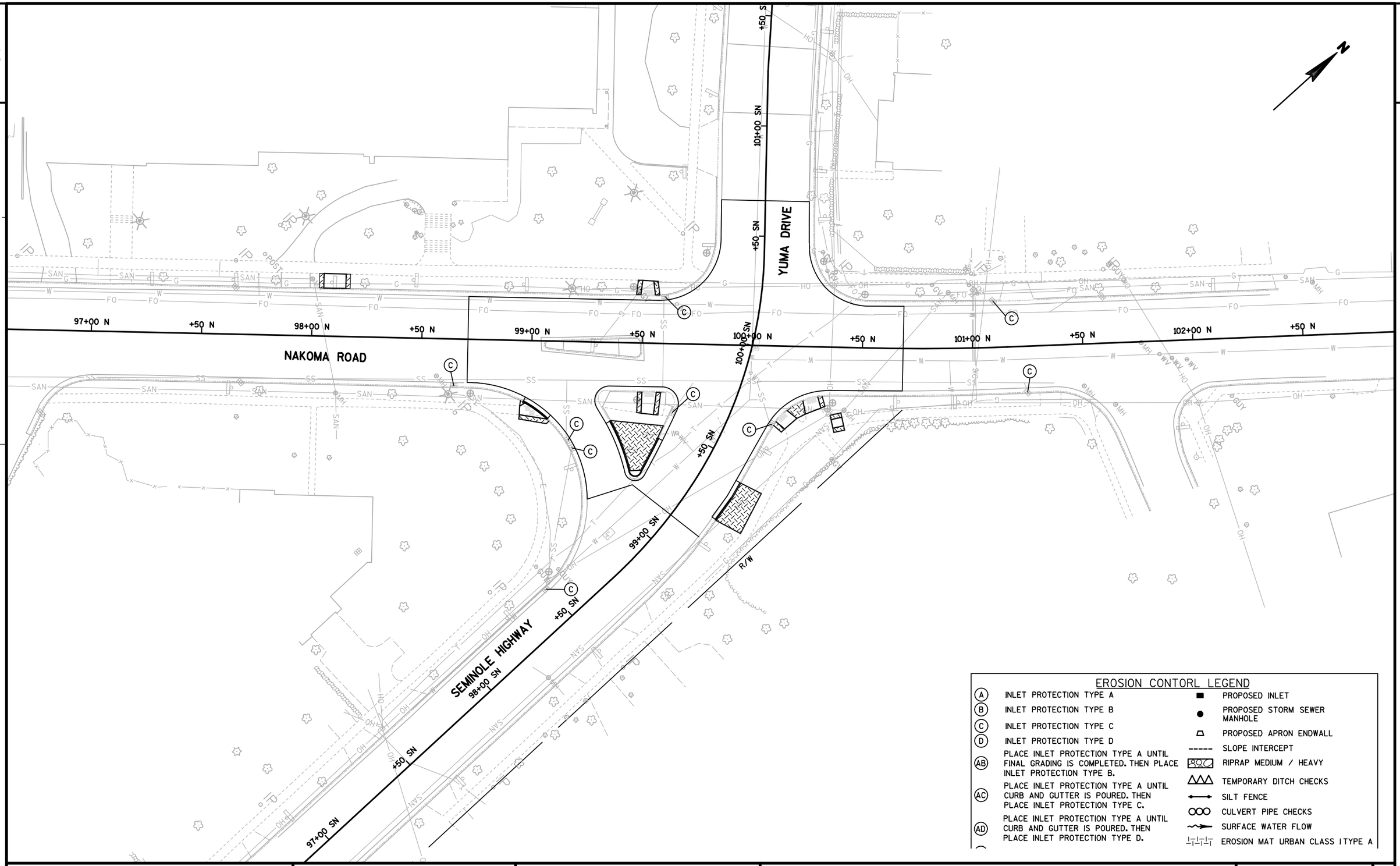
(C) STA. 95+84 W, RT

GILBERT ROAD

WHITNEY WAY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL AND STORM SEWER - WHITNEY AT GILBERT	SHEET 230 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022035_ec_w.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



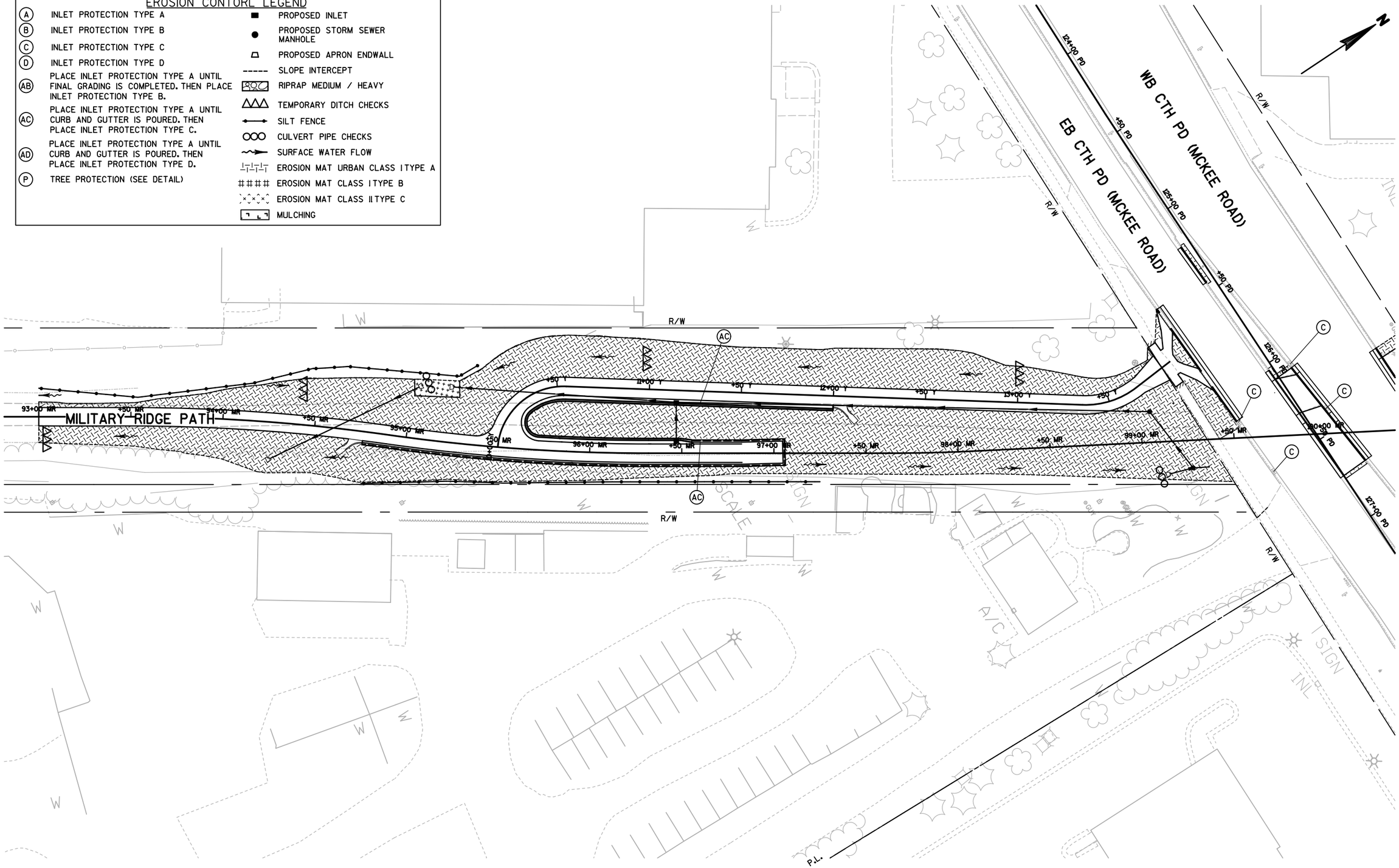
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - NAKOMA AT SEMINOLE/YUMA	SHEET	E

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EROSION CONTORL LEGEND

- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- (AB) PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- (AD) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.
- (P) TREE PROTECTION (SEE DETAIL)

- PROPOSED INLET
- PROPOSED STORM SEWER MANHOLE
- PROPOSED APRON ENDWALL
- SLOPE INTERCEPT
- RIPRAP MEDIUM / HEAVY
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- EROSION MAT URBAN CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT CLASS IITYPE C
- MULCHING



PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - MILITARY RIDGE PATH	SHEET 232	E

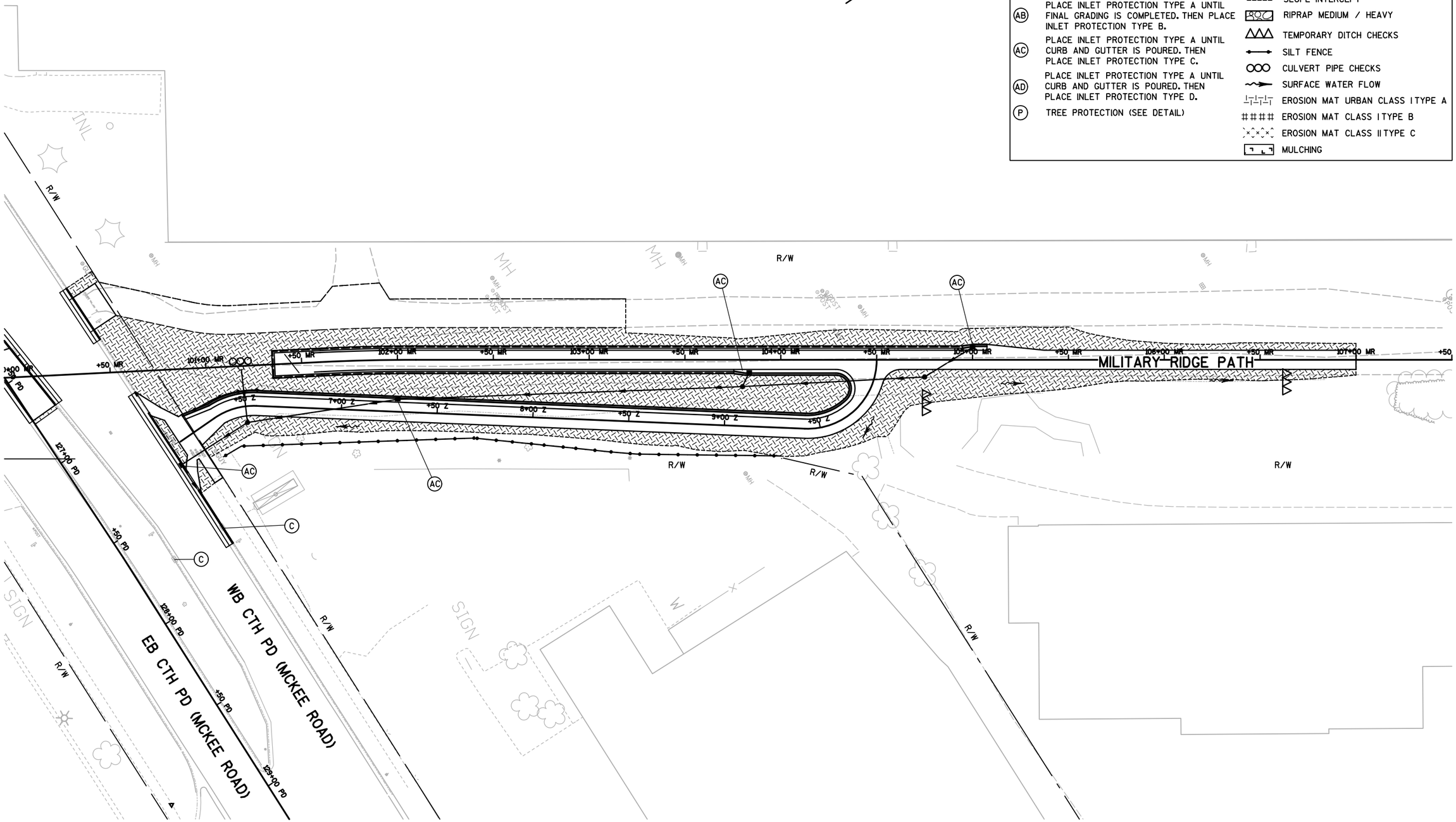
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WISDOT/CADDS SHEET 42

2

EROSION CONTORL LEGEND

(A)	INLET PROTECTION TYPE A	■	PROPOSED INLET
(B)	INLET PROTECTION TYPE B	●	PROPOSED STORM SEWER MANHOLE
(C)	INLET PROTECTION TYPE C	⏢	PROPOSED APRON ENDWALL
(D)	INLET PROTECTION TYPE D	-----	SLOPE INTERCEPT
(AB)	PLACE INLET PROTECTION TYPE A UNTIL FINAL GRADING IS COMPLETED. THEN PLACE INLET PROTECTION TYPE B.		RIPRAP MEDIUM / HEAVY
			TEMPORARY DITCH CHECKS
(AC)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.		SILT FENCE
			CULVERT PIPE CHECKS
(AD)	PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE D.		SURFACE WATER FLOW
			EROSION MAT URBAN CLASS I TYPE A
(P)	TREE PROTECTION (SEE DETAIL)	####	EROSION MAT CLASS I TYPE B
			EROSION MAT CLASS II TYPE C
			MULCHING



PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	EROSION CONTROL - MILITARY RIDGE PATH	SHEET 233 E

STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
8. REMOVING STORM SEWER 21-INCH REQ'D
9. REMOVING STORM SEWER 24-INCH REQ'D
10. REMOVING STORM SEWER 27-INCH REQ'D
11. REMOVING STORM SEWER 30-INCH REQ'D
12. REMOVING STORM SEWER 36-INCH REQ'D
13. REMOVING STORM SEWER 42-INCH REQ'D
14. REMOVING STORM SEWER 48-INCH REQ'D
15. REMOVING STORM SEWER 54-INCH REQ'D
16. REMOVING STORM SEWER 60-INCH REQ'D
17. REMOVING STORM SEWER 19X30-INCH REQ'D
18. REMOVING STORM SEWER 24X38-INCH REQ'D
19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

REMOVING APRON ENDWALL REQ'D

REMOVING APRON ENDWALL REQ'D

REMOVING APRON ENDWALL REQ'D

REMOVING APRON ENDWALL REQ'D

REMOVING APRON ENDWALL REQ'D

SOUTHWEST COMMUTER PATH

FREEPORT CONNECTION

ALLIED DRIVE

THURSTON LANE

WEST VERONA ROAD FRONTAGE ROAD

EB USH 18/151 (VERONA ROAD)

WB USH 18/151 (VERONA ROAD)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - FREEPORT CONNECTION	SHEET 234 E

STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
8. REMOVING STORM SEWER 21-INCH REQ'D
9. REMOVING STORM SEWER 24-INCH REQ'D
10. REMOVING STORM SEWER 27-INCH REQ'D
11. REMOVING STORM SEWER 30-INCH REQ'D
12. REMOVING STORM SEWER 36-INCH REQ'D
13. REMOVING STORM SEWER 42-INCH REQ'D
14. REMOVING STORM SEWER 48-INCH REQ'D
15. REMOVING STORM SEWER 54-INCH REQ'D
16. REMOVING STORM SEWER 60-INCH REQ'D
17. REMOVING STORM SEWER 19X30-INCH REQ'D
18. REMOVING STORM SEWER 24X38-INCH REQ'D
19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

APPROXIMATE EXISTING SOIL CAP LIMITS (SEE CONTAMINATED SOILS DETAIL SHEET)

APPROXIMATE LIMITS OF SOIL CONTAMINATION (SEE CONTAMINATED SOILS DETAIL SHEET)

WEST VERONA ROAD FRONTAGE ROAD

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

EAST VERONA ROAD FRONTAGE ROAD

981+00 VR | 982+00 VR | 983+00 VR | 984+00 VR | 985+00 VR | 986+00 VR

MATCHLINE STA. 986+00 VR

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - USH 18/151 (VERONA ROAD)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022402_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
8. REMOVING STORM SEWER 21-INCH REQ'D
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10. REMOVING STORM SEWER 27-INCH REQ'D
11. REMOVING STORM SEWER 30-INCH REQ'D
12. REMOVING STORM SEWER 36-INCH REQ'D
13. REMOVING STORM SEWER 42-INCH REQ'D
14. REMOVING STORM SEWER 48-INCH REQ'D
15. REMOVING STORM SEWER 54-INCH REQ'D
16. REMOVING STORM SEWER 60-INCH REQ'D
17. REMOVING STORM SEWER 19X30-INCH REQ'D
18. REMOVING STORM SEWER 24X38-INCH REQ'D
19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

SUMMIT ROAD

WB USH 18/151 (VERONA ROAD)

REMOVE ONLY EXISTING INLET COVER SPECIAL ITEM 204.9060.S.04

MATCHLINE STA. 986+00 VR

MATCHLINE STA. 992+00 VR

0 VR | +50 VR | 987+00 VR | +50 VR | 988+00 VR | +50 VR | 989+00 VR | +50 VR | 990+00 VR | +50 VR | 991+00 VR | +50 VR | 992+0

EB USH 18/151 (VERONA ROAD)

EXISTING INLET TO REMAIN. SEAL UPSTREAM PIPE AND MAINTAIN STRUCTURE.

ATTICUS WAY

EAST VERONA ROAD FRONTAGE ROAD

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - USH 18/151 (VERONA ROAD)	SHEET 236 E

STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
8. REMOVING STORM SEWER 21-INCH REQ'D
9. REMOVING STORM SEWER 24-INCH REQ'D
10. REMOVING STORM SEWER 27-INCH REQ'D
11. REMOVING STORM SEWER 30-INCH REQ'D
12. REMOVING STORM SEWER 36-INCH REQ'D
13. REMOVING STORM SEWER 42-INCH REQ'D
14. REMOVING STORM SEWER 48-INCH REQ'D
15. REMOVING STORM SEWER 54-INCH REQ'D
16. REMOVING STORM SEWER 60-INCH REQ'D
17. REMOVING STORM SEWER 19X30-INCH REQ'D
18. REMOVING STORM SEWER 24X38-INCH REQ'D
19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

WEST VERONA ROAD FRONTAGE ROAD

WB USH 18/151 (VERONA ROAD)

MATCHLINE STA. 992+00 VR

EB USH 18/151 (VERONA ROAD)

EAST VERONA ROAD FRONTAGE ROAD

BRITTA PARKWAY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - USH 18/151 (VERONA ROAD)	SHEET 237	E

2

STORM SEWER REMOVAL DESCRIPTIONS

(1) REMOVING MANHOLES REQ'D
(2) REMOVING INLETS REQ'D
(3) SEALING PIPES REQ'D
(4) REMOVING STORM SEWER 8-INCH REQ'D
(5) REMOVING STORM SEWER 12-INCH REQ'D
(6) REMOVING STORM SEWER 15-INCH REQ'D
(7) REMOVING STORM SEWER 18-INCH REQ'D
(8) REMOVING STORM SEWER 21-INCH REQ'D
(9) REMOVING STORM SEWER 24-INCH REQ'D
(10) REMOVING STORM SEWER 27-INCH REQ'D
(11) REMOVING STORM SEWER 30-INCH REQ'D
(12) REMOVING STORM SEWER 36-INCH REQ'D
(13) REMOVING STORM SEWER 42-INCH REQ'D
(14) REMOVING STORM SEWER 48-INCH REQ'D
(15) REMOVING STORM SEWER 54-INCH REQ'D
(16) REMOVING STORM SEWER 60-INCH REQ'D
(17) REMOVING STORM SEWER 19X30-INCH REQ'D
(18) REMOVING STORM SEWER 24X38-INCH REQ'D
(19) REMOVING STORM SEWER 29X45-INCH REQ'D
(20) REMOVING STORM SEWER 34X53-INCH REQ'D
(21) REMOVING STORM SEWER 72-INCH REQ'D

BRITTA PARKWAY

BRITTA DRIVE

TWO PIPES IN LOCATION.
NW PIPE SIZE = 15-INCH
N PIPE SIZE = 12-INCH

MEDICAL CIRCLE

REMOVING APRON ENDWALL REQ'D

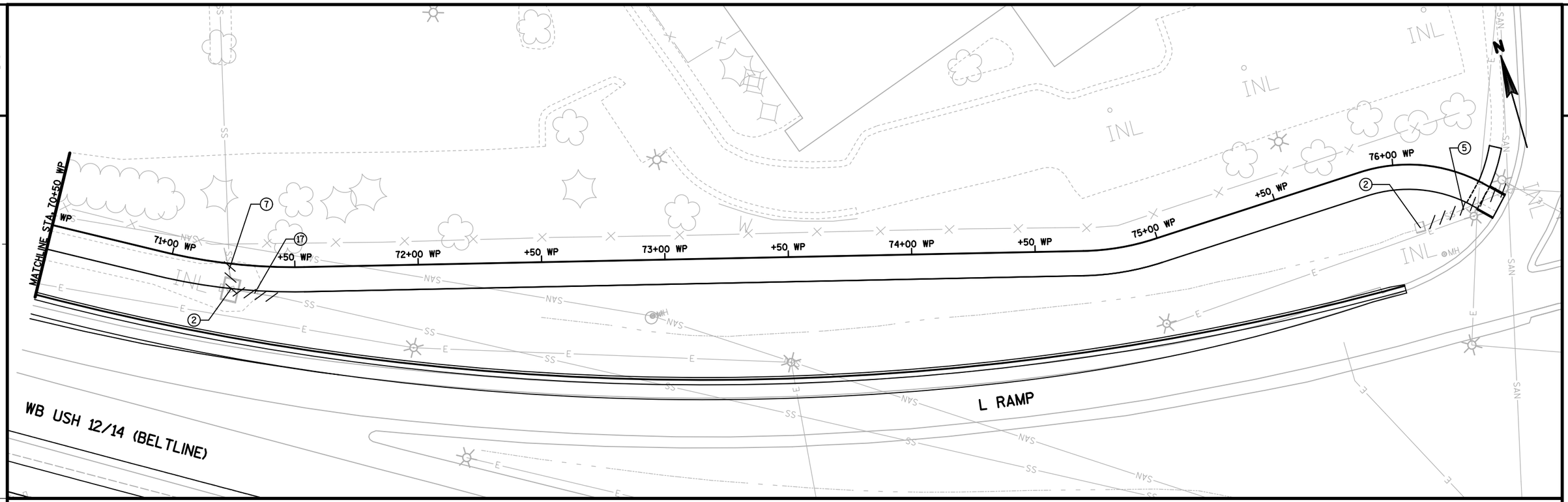
REMOVING APRON ENDWALL REQ'D

MATCHLINE STA. 70+50 WP

WB USH 12/14 (BELTLINE)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - BRITTA PARKWAY & WW BIKE PATH	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022405_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
8. REMOVING STORM SEWER 21-INCH REQ'D
9. REMOVING STORM SEWER 24-INCH REQ'D
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11. REMOVING STORM SEWER 30-INCH REQ'D
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13. REMOVING STORM SEWER 42-INCH REQ'D
14. REMOVING STORM SEWER 48-INCH REQ'D
15. REMOVING STORM SEWER 54-INCH REQ'D
16. REMOVING STORM SEWER 60-INCH REQ'D
17. REMOVING STORM SEWER 19X30-INCH REQ'D
18. REMOVING STORM SEWER 24X38-INCH REQ'D
19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - WHITNEY WAY BIKE PATH	SHEET 239	E

STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
8. REMOVING STORM SEWER 21-INCH REQ'D
9. REMOVING STORM SEWER 24-INCH REQ'D
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11. REMOVING STORM SEWER 30-INCH REQ'D
12. REMOVING STORM SEWER 36-INCH REQ'D
13. REMOVING STORM SEWER 42-INCH REQ'D
14. REMOVING STORM SEWER 48-INCH REQ'D
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16. REMOVING STORM SEWER 60-INCH REQ'D
17. REMOVING STORM SEWER 19X30-INCH REQ'D
18. REMOVING STORM SEWER 24X38-INCH REQ'D
19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

REMOVING APRON ENDWALLS REQ'D

REMOVING APRON ENDWALLS REQ'D

REMOVING APRON ENDWALLS REQ'D

SOUTHWEST COMMUTER PATH

TLE

R/W

BIKE PATH

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

HAMMERSLEY ROAD

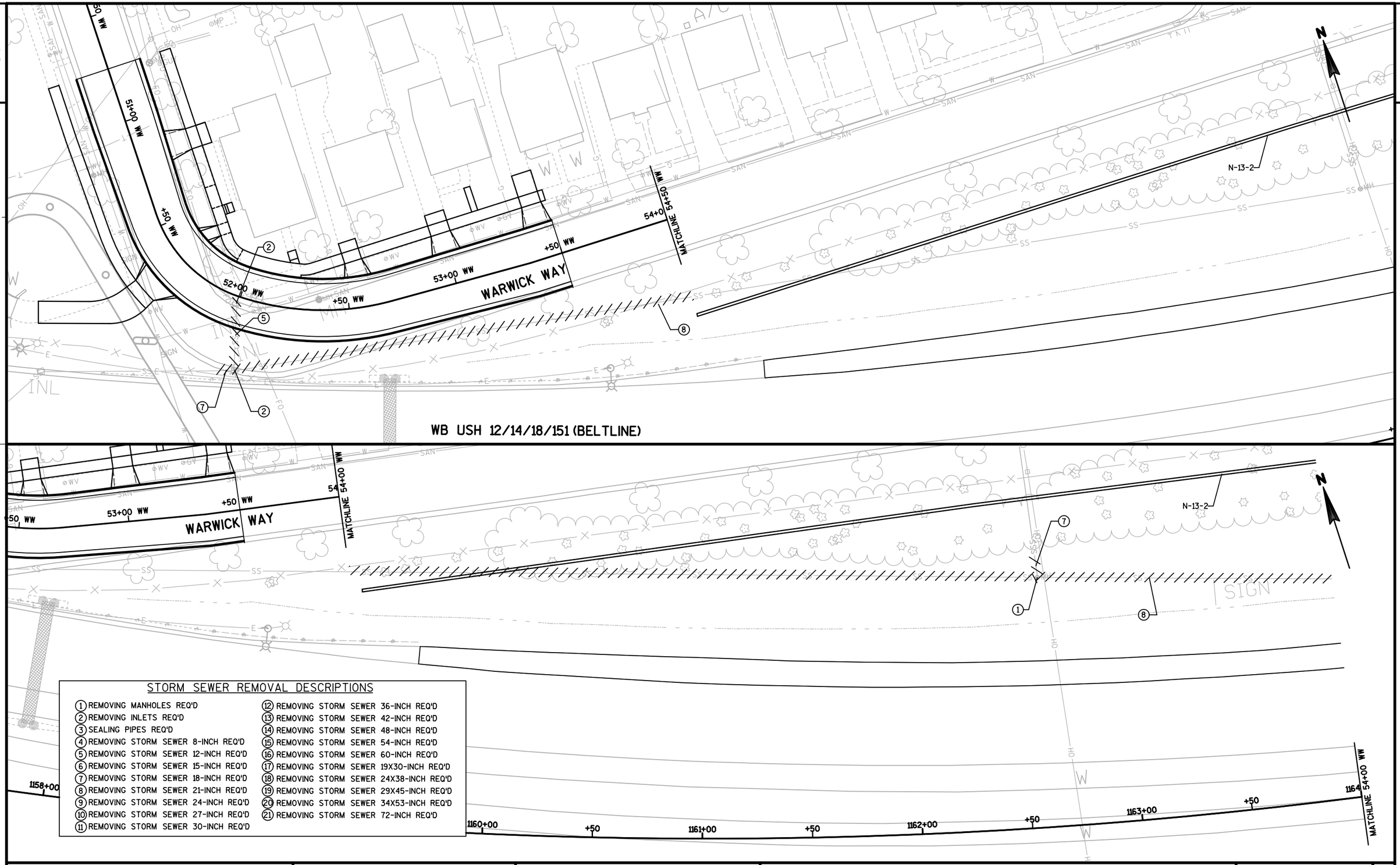
1122+00 1123+00 1124+00 1125+00 1126+00 1127+00 1128+00

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - USH 12/14 (BELTLINE)	SHEET 240	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022407_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 41

2



WB USH 12/14/18/151 (BELTLINE)

STORM SEWER REMOVAL DESCRIPTIONS

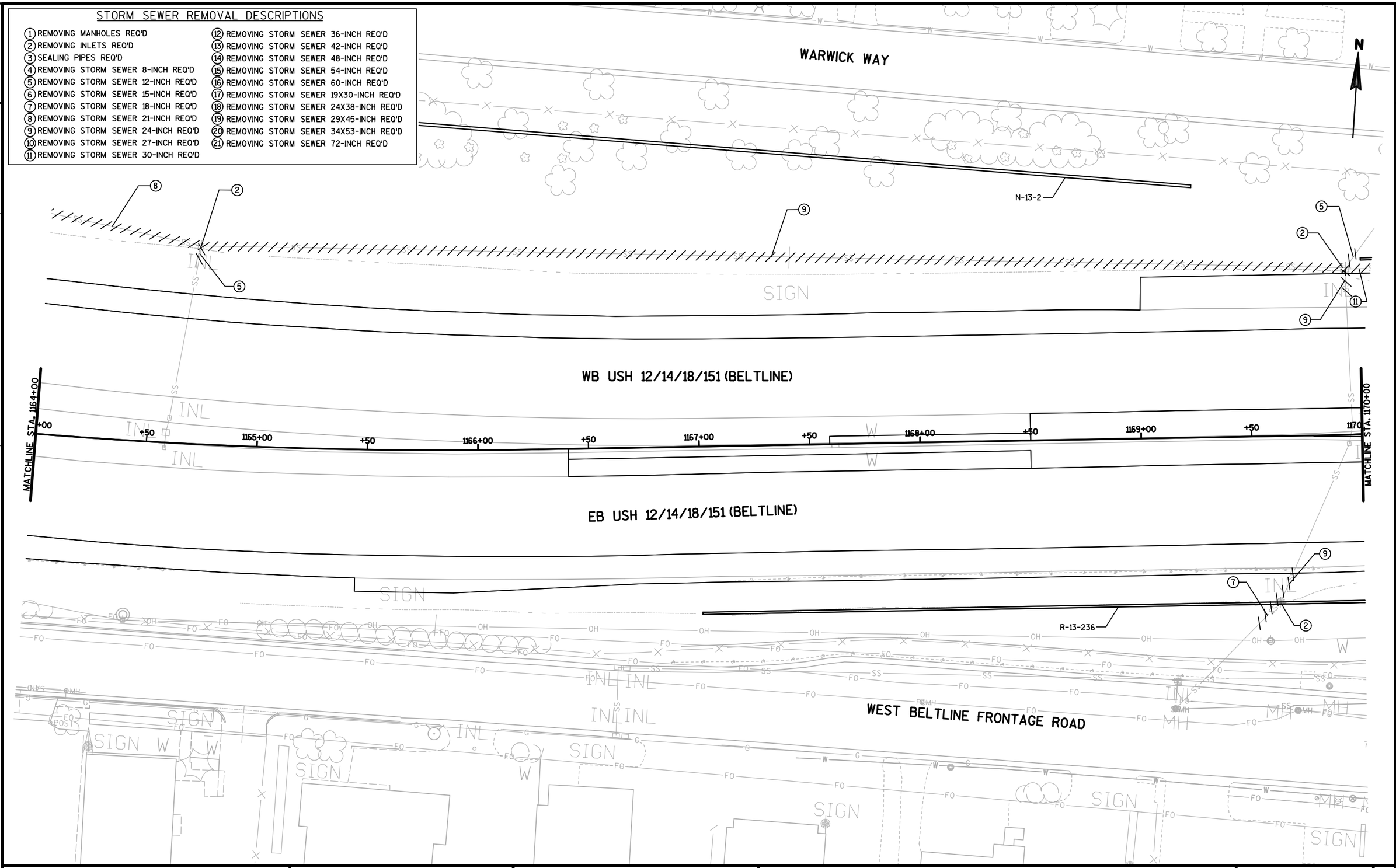
1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
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14. REMOVING STORM SEWER 48-INCH REQ'D
15. REMOVING STORM SEWER 54-INCH REQ'D
16. REMOVING STORM SEWER 60-INCH REQ'D
17. REMOVING STORM SEWER 19X30-INCH REQ'D
18. REMOVING STORM SEWER 24X38-INCH REQ'D
19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - USH 12/14/18/151 AND WARWICK WAY	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022408_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
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19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - USH 12/14/18/151 (BELTLINE)	SHEET 242	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022409_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 41

STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
8. REMOVING STORM SEWER 21-INCH REQ'D
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15. REMOVING STORM SEWER 54-INCH REQ'D
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18. REMOVING STORM SEWER 24X38-INCH REQ'D
19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

N

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

WEST BELTLINE FRONTAGE ROAD

SEMINOLE HIGHWAY

MATCHLINE STA. 1170+00

MATCHLINE STA. 1176+00

R-13-235

R-13-236

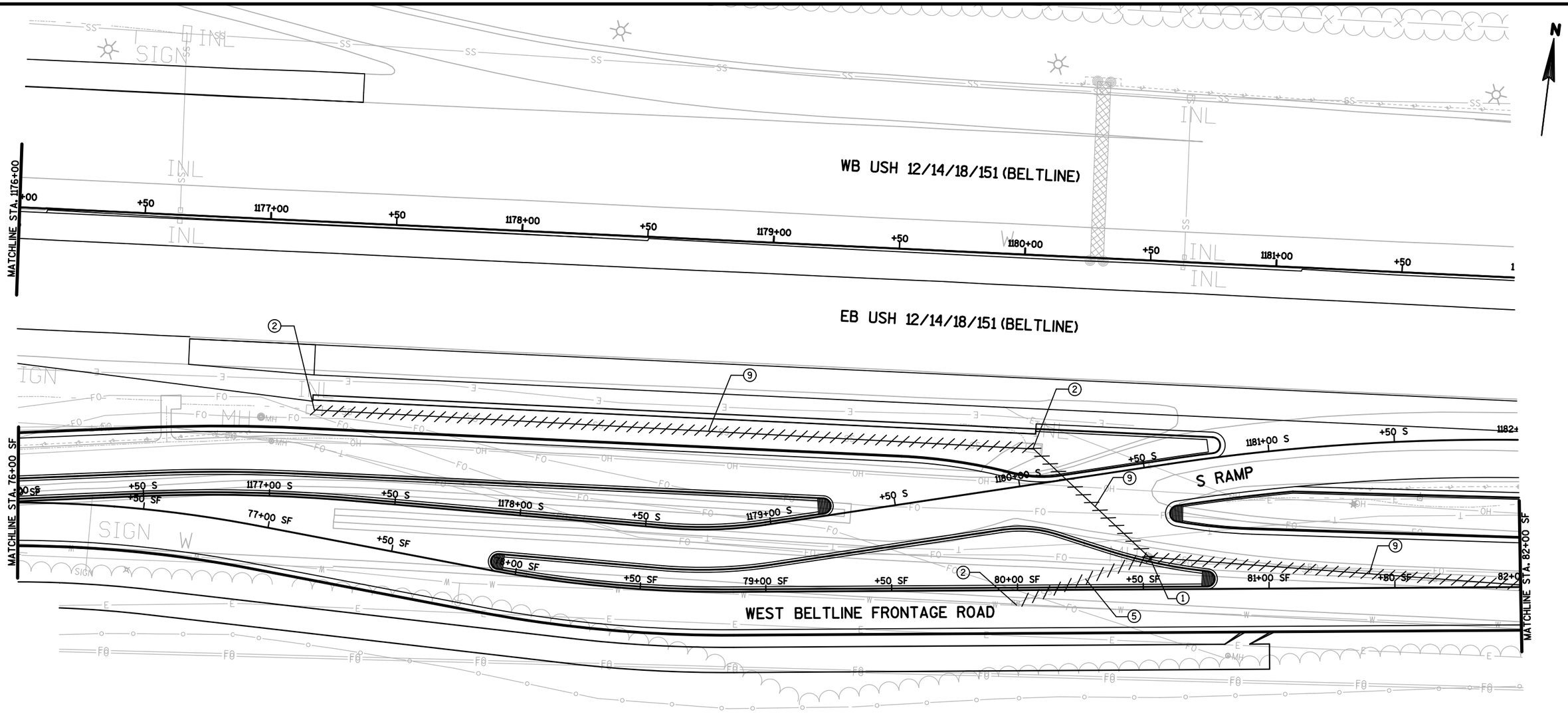
B-13-664

REMOVING APRON ENDWALLS REQ'D

RIPRAP

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - USH 12/14/18/151 AND WB FRONTAGE RD	SHEET 243	E

2



STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
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17. REMOVING STORM SEWER 19X30-INCH REQ'D
18. REMOVING STORM SEWER 24X38-INCH REQ'D
19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - USH 12/14/18/151 AND WB FRONTAGE RD	SHEET 244	E

STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
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18. REMOVING STORM SEWER 24X38-INCH REQ'D
19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

MATCHLINE STA. 1182+00

1183+00 1184+00 1185+00 1186+00

MATCHLINE STA. 1188+00

N

EB USH 12/14/18/151 (BELTLINE)

REMOVING APRON ENDWALL REQ'D

MATCHLINE STA. 82+00 SF

83+00 SF 84+00 SF 85+00 SF 86+00 SF 87+00 SF 88+00 SF

MATCHLINE STA. 88+00 SF

WEST BELTLINE FRONTAGE ROAD

RIPRAP RIPRAP

MATCHLINE STA. 1188+00

1189+00 1190+00 1191+00 1192+00 1193+00 1194+00

MATCHLINE STA. 1194+00

EB USH 12/14/18/151 (BELTLINE)

MATCHLINE STA. 88+00 SF

89+00 SF 90+00 SF 91+00 SF 92+00 SF 93+00 SF 94+00 SF

MATCHLINE STA. 94+00 SF

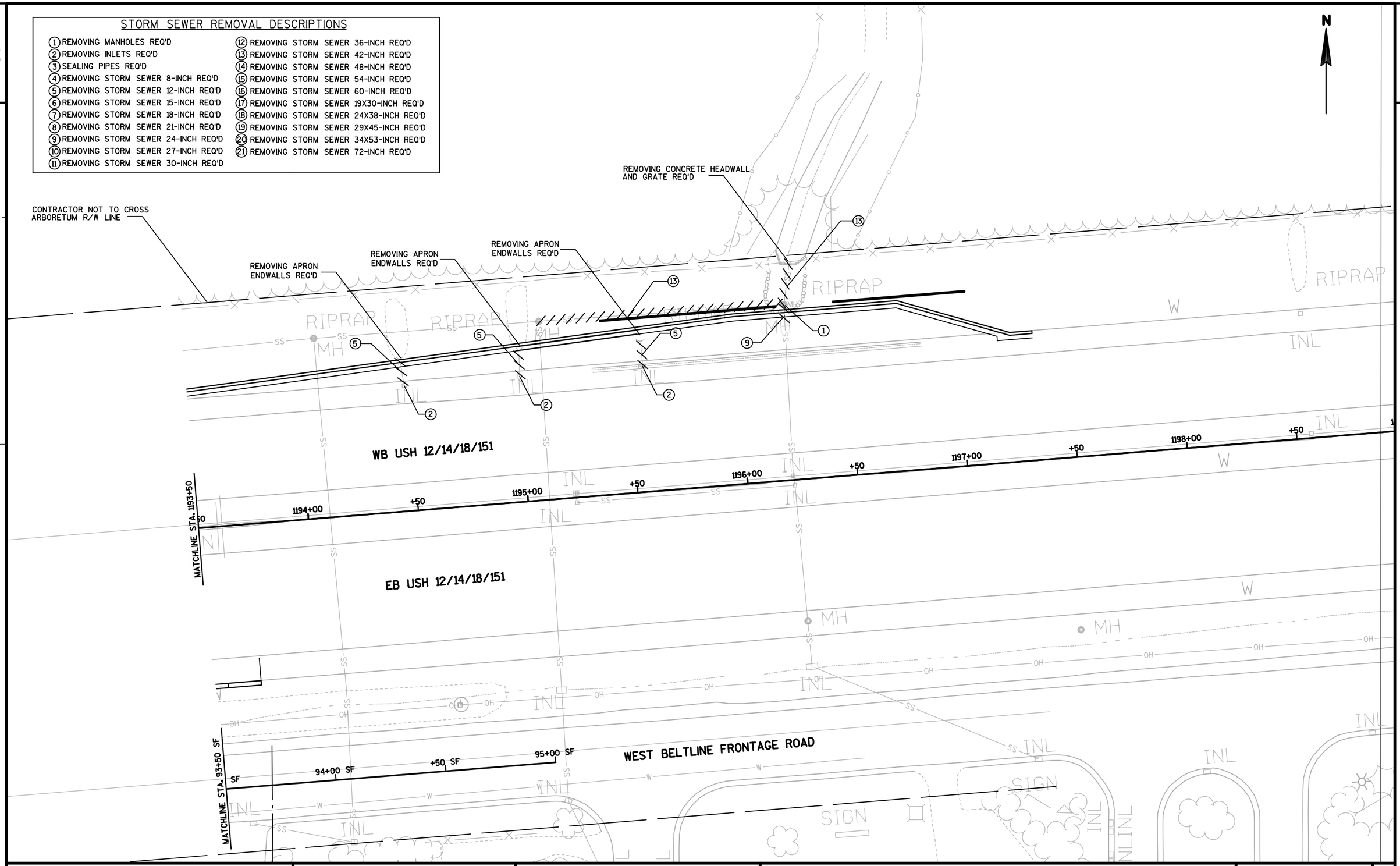
WEST BELTLINE FRONTAGE ROAD

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - USH 12/14/18/151 AND WB FRONTAGE RD	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022412_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
5. REMOVING STORM SEWER 12-INCH REQ'D
6. REMOVING STORM SEWER 15-INCH REQ'D
7. REMOVING STORM SEWER 18-INCH REQ'D
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19. REMOVING STORM SEWER 29X45-INCH REQ'D
20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - USH 12/14/18/151 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022413_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

STORM SEWER REMOVAL DESCRIPTIONS

1. REMOVING MANHOLES REQ'D
2. REMOVING INLETS REQ'D
3. SEALING PIPES REQ'D
4. REMOVING STORM SEWER 8-INCH REQ'D
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20. REMOVING STORM SEWER 34X53-INCH REQ'D
21. REMOVING STORM SEWER 72-INCH REQ'D

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

+50 1211+00 +50 1212+00 +50 1213+00 +50 1214+00 +50

TODD DRIVE OFF-RAMP

WEST BELTLINE FRONTAGE ROAD

LANDMARK PLACE

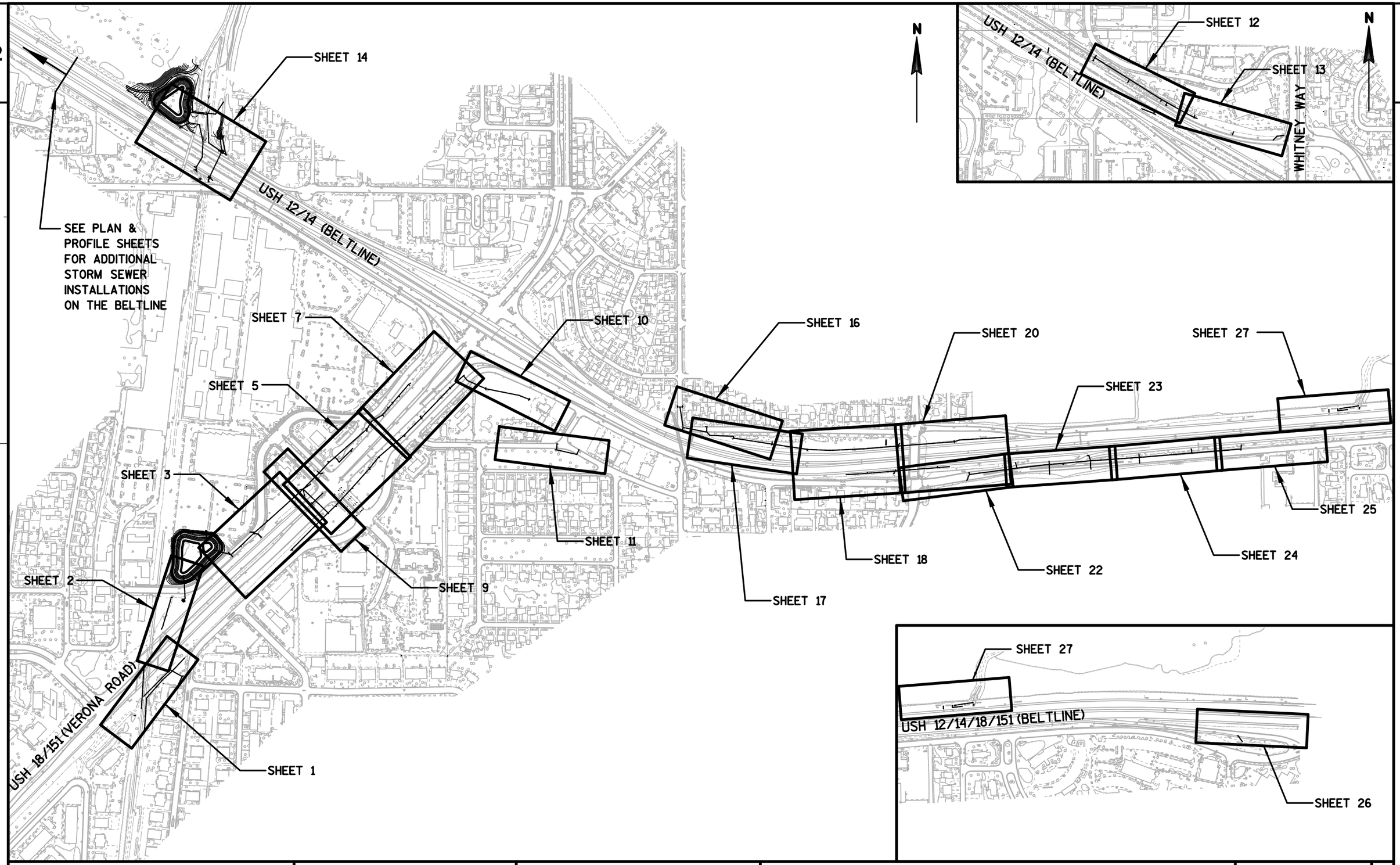
RIPRAP

WALLS

SIGN

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER REMOVALS - TODD DRIVE	SHEET	E

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER OVERVIEW	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022501_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

REMOVE EXISTING CULVERT AND GRADE EXISTING DITCH TO PROVIDE MINIMUM OF 1-FOOT GROUND COVER OVER PROPOSED STORM SEWER

SLOPE INLET 10:1 (EAST EDGE IS HIGHER)

RIM=1010.49

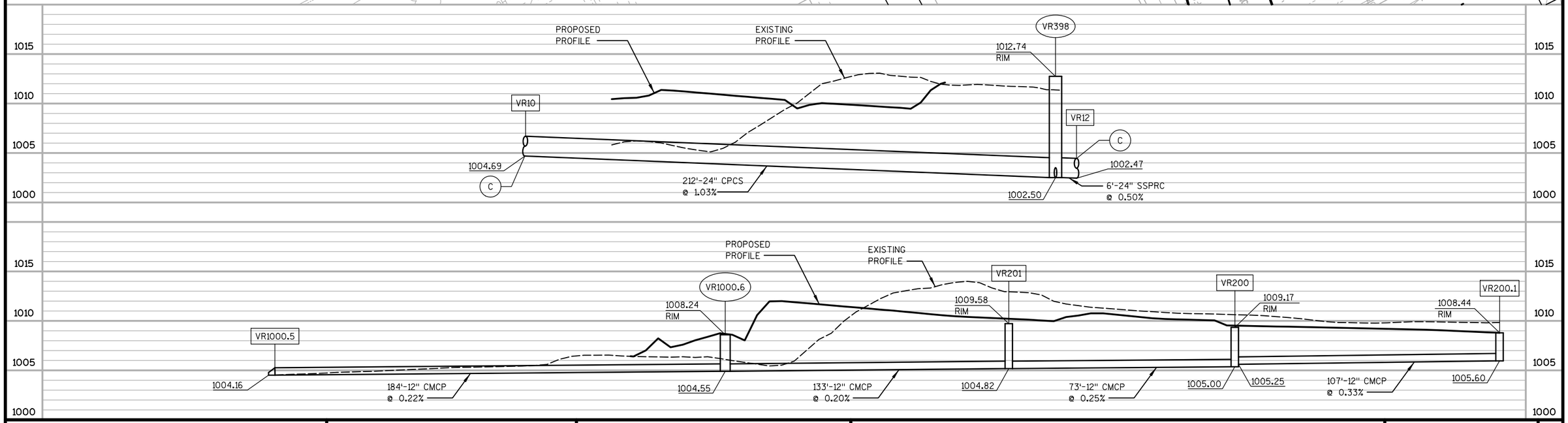
RIM=1010.87

SOUTHWEST COMMUTER PATH

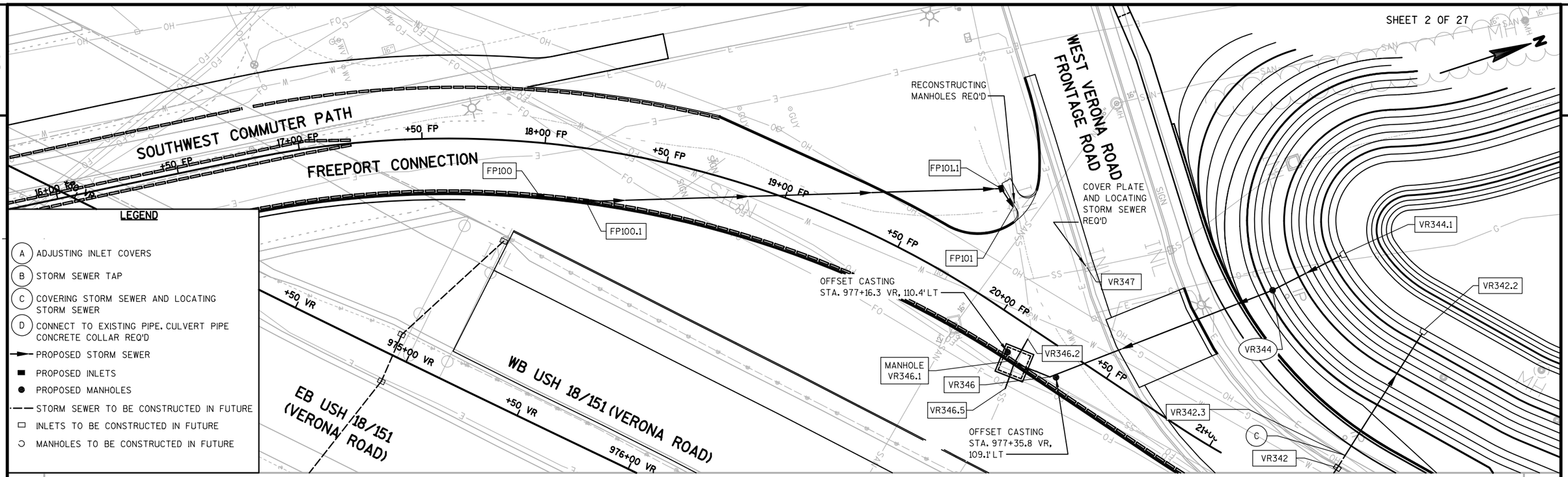
FREEPORT CONNECTION

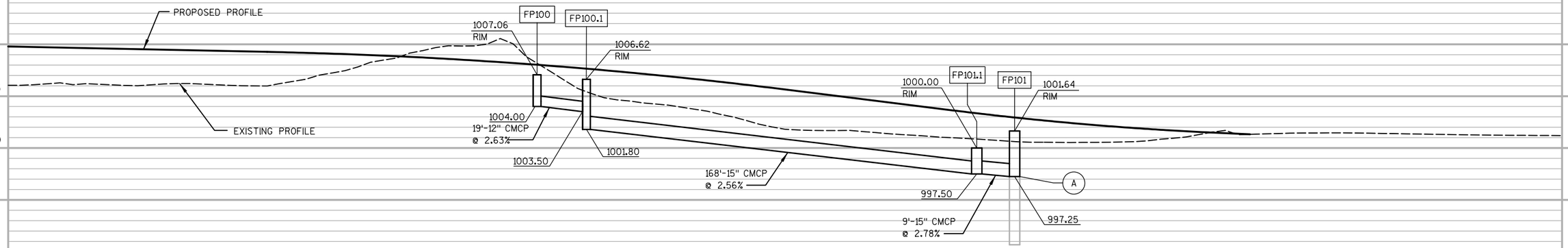
ALLIED DRIVE

CD400.1 VR10 VR205 VR206 VR12 VR201 VR200 VR200.1 VR398 VR398.2 VR398.3 VR398.4 VR1000.5 VR1000.6



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - FREEPORT CONNECTION	SHEET 249	E





PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - FREEPORT CONNECTION	SHEET 250	E

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

WEST VERONA ROAD FRONTAGE ROAD

VR340.1
VR340.2
VR340
VR340.3
VR338
VR338.1
VR334
VR334.1
VR334.2
WS336.1
EW337
WN332.4
VR332.6
VR332
RIM=999.40
SLOPE INLET 10:1
(NW EDGE IS HIGHER)
PIPE TIES REQ'D
CONNECT UNDERDRAIN TO REPLACED INLET VR340.2
REMOVE AND REPLACE INLET APPROX. RIM=999.82
OFFSET CASTING
STA. 982+68.5 VR, 106.8' LT
RIM=999.02

WB USH 18/151 (VERONA ROAD)

981+00 VR | 982+00 VR | 983+00 VR | 984+00 VR | 985+00 VR | 986+00 VR

MATCHLINE STA. 986+00 VR

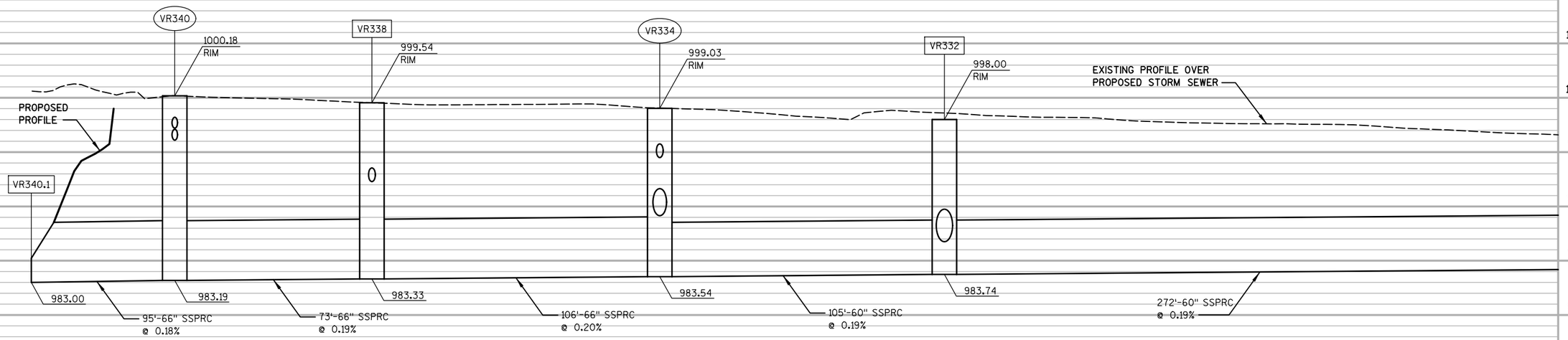
EB USH 18/151 (VERONA ROAD)

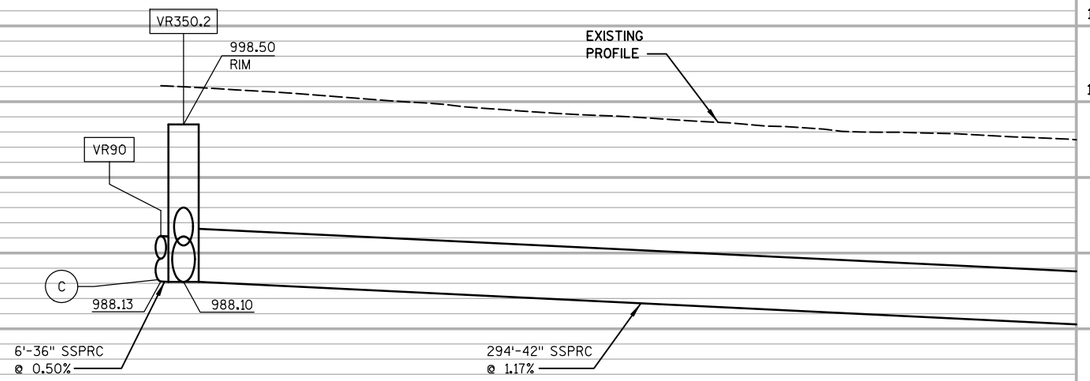
EAST VERONA ROAD FRONTAGE ROAD

VR90
VR350.2
VR91
EW350.4

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 18/151 (VERONA ROAD)	SHEET	E

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LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 18/151 (VERONA ROAD)	SHEET 252 E

SHEET 5 OF 27

UTILIZE HOLE FROM PIPE REMOVAL FOR VR332.1 PIPE CONNECTION

SUMMIT ROAD

VR332.1 VR332.5 VR332.2 VR332.7 VR332.3

COVER PLATE AND LOCATING STORM SEWER REQ'D

SEE SHEET 9

VR808.1 VR808 VR40 VR4

VR580.2 VR806 VR580.1 VR580.3 VR580.4 VR580 VR580.5

SAW AT LINE

WN320 VR6 VR805 VR805.1

VR5

WB USH 18/151 (VERONA ROAD)

VR356.2

MATCHLINE STA. 986+00 VR

VR30 VR28 VR29 VR31

987+00 VR 988+00 VR 989+00 VR 990+00 VR 991+00 VR 992+00 VR

+50 VR

MATCHLINE STA. 992+00 VR

EB USH 18/151 (VERONA ROAD)

TRENCHLESS STORM SEWER CONSTRUCTION, 48-INCH (SEE SHEET 9 OF 27)

COVER PLATE AND LOCATING STORM SEWER REQ'D

SEE SHEET 9

OFFSET CASTING STA. 987+13.38 VR 92.98' RT

TRENCHLESS STORM SEWER CONSTRUCTION, 48-INCH

VR408.9 VR407 SU408.2

VR353.1 VR353 VR354 VR354.1 EE352.5 SU408

ATTICUS WAY

VR356.6 VR357.2 VR357.1 VR356.9 EE356.8

VR809 VR809.1

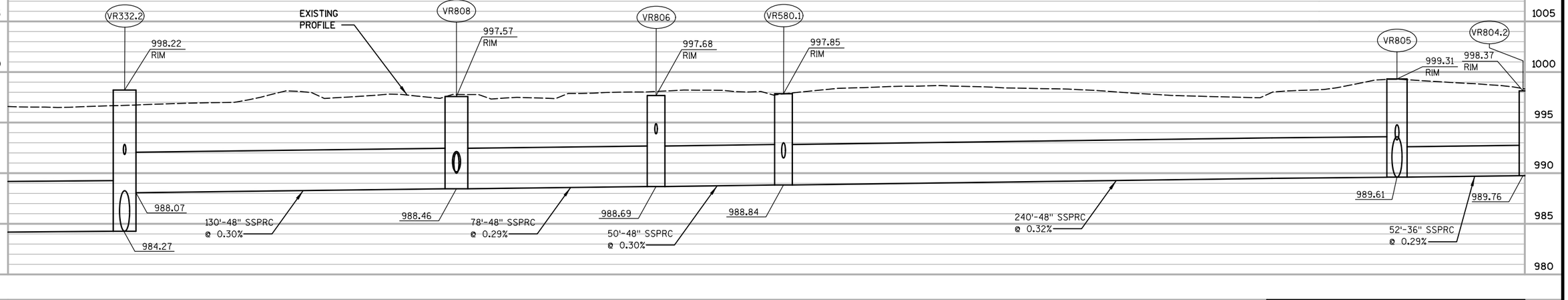
COVER PLATE AND LOCATING STORM SEWER REQ'D

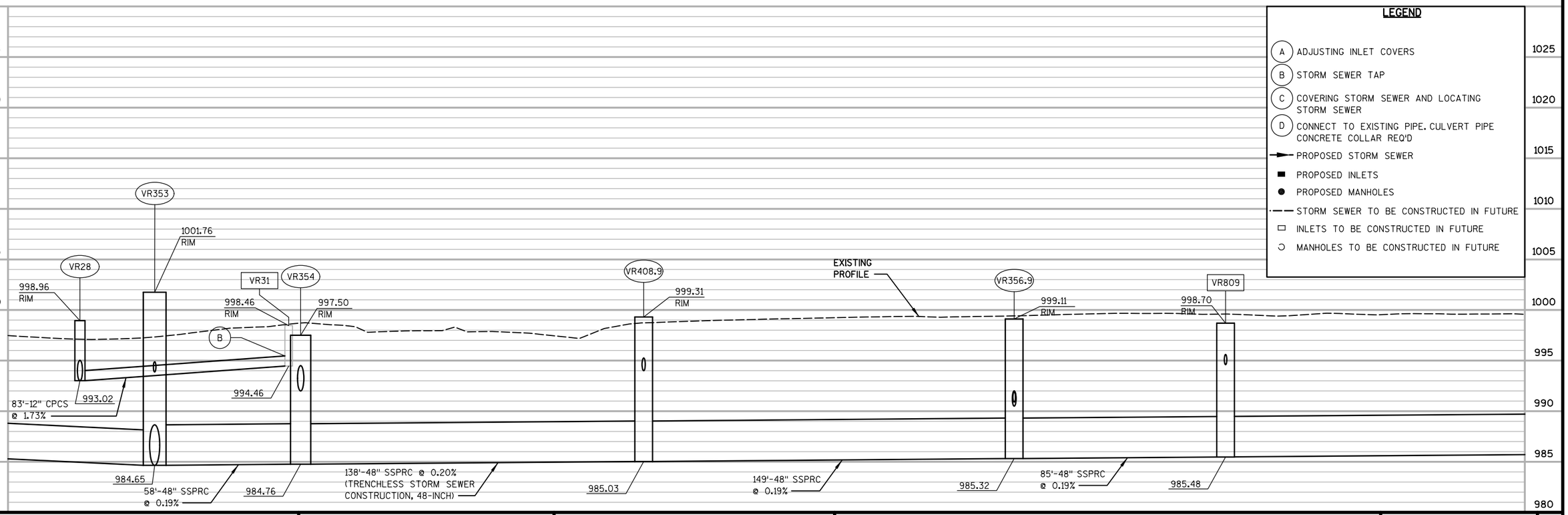
EAST VERONA ROAD FRONTAGE ROAD

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 18/151 (VERONA ROAD)	SHEET 253	E





PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 18/151 (VERONA ROAD)	SHEET 254	E

SHEET 7 OF 27

WEST VERONA ROAD FRONTAGE ROAD

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

EAST VERONA ROAD FRONTAGE ROAD

PROVIDE CUTOUT FOR 36" FUTURE PIPE WITH I.E.=990.67. USE THIS CUTOUT FOR CONNECTION WITH VR801.2.

VR804.2 VR804 VR804.1 WN317 VR7 VR803 VR802 VR802.1 VR358.1 VR358.2 VR8 VR358.4 VR801 VR801.1 VR801.2

MATCHLINE STA. 992+00 VR

MATCHLINE STA. 998+00 VR

0 VR +50 VR 993+00 VR +50 VR 994+00 VR +50 VR 995+00 VR +50 VR 996+00 VR +50 VR 997+00 VR +50 VR 998+

VR585.3 VR585.4 VR585.5 VR585.6

VR813 VR358 VR358.9 VR19 VR359.2 VR359.1 VR18 VR358.8 VR358.6 EE358.2

VR21 VR814 VR22 VR20 VR815 B364.1

112+00 EE +50 EE 113+00 EE +50 EE 114+00 EE +50 EE 115+00 EE +50 EE 116+00 EE +50 EE 117+00 EE

10+00 BP +50 BP

BRITTA PARKWAY

SEE SHEET 10

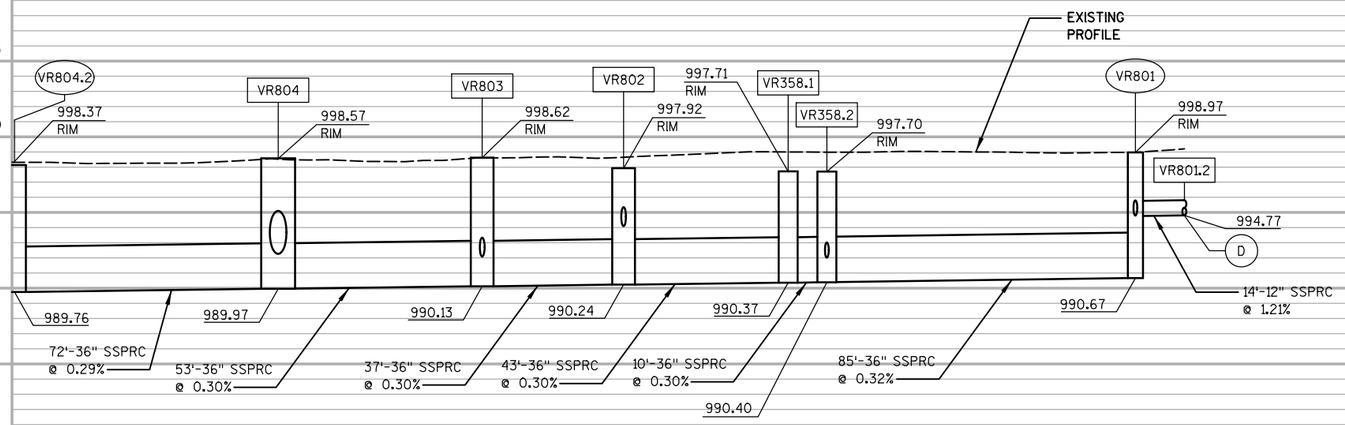
LEGEND

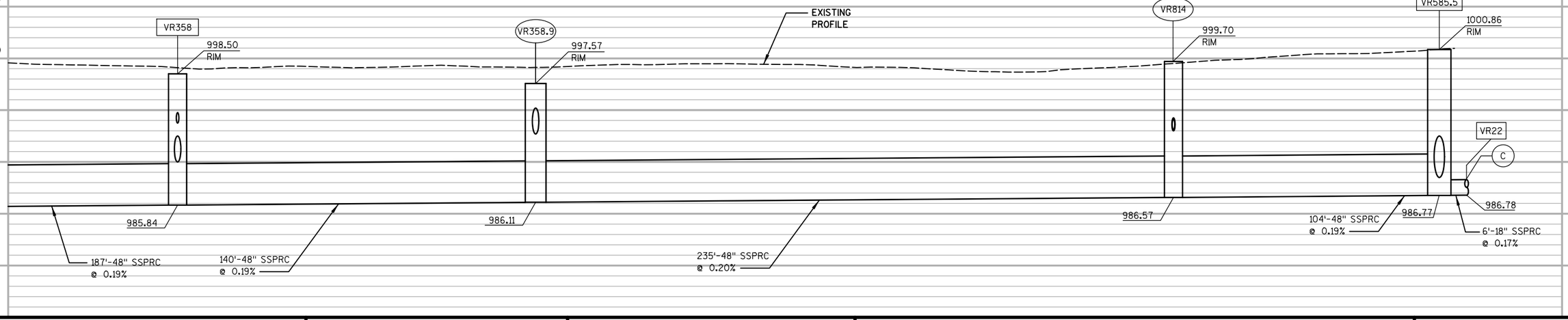
- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 18/151 (VERONA ROAD)	SHEET 255	E

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE





PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 18/151 (VERONA ROAD)	SHEET 256	E

SHEET 9 OF 27

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
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- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

VR332.2

SEE SHEET 5

987+00 VR

+50 VR

986+00 VR

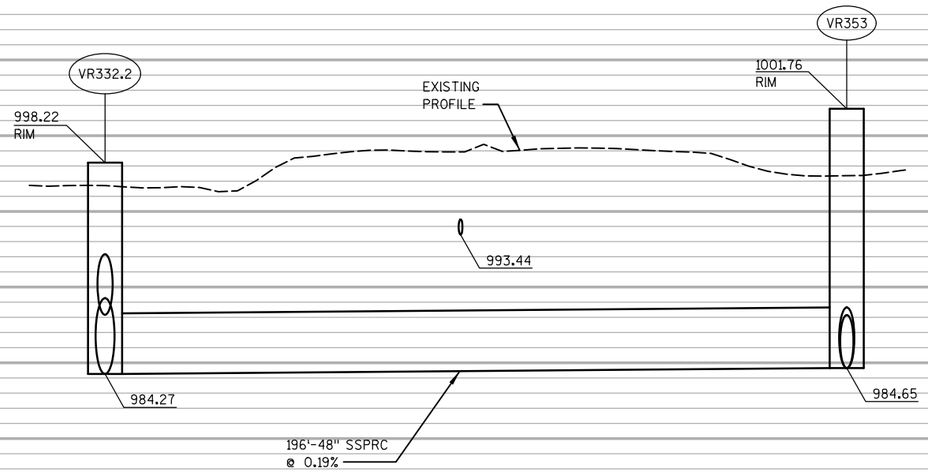
TRENCHLESS STORM SEWER CONSTRUCTION, 48-INCH

SEE SHEET 5

VR353

WB USH 18/151 (VERONA ROAD)

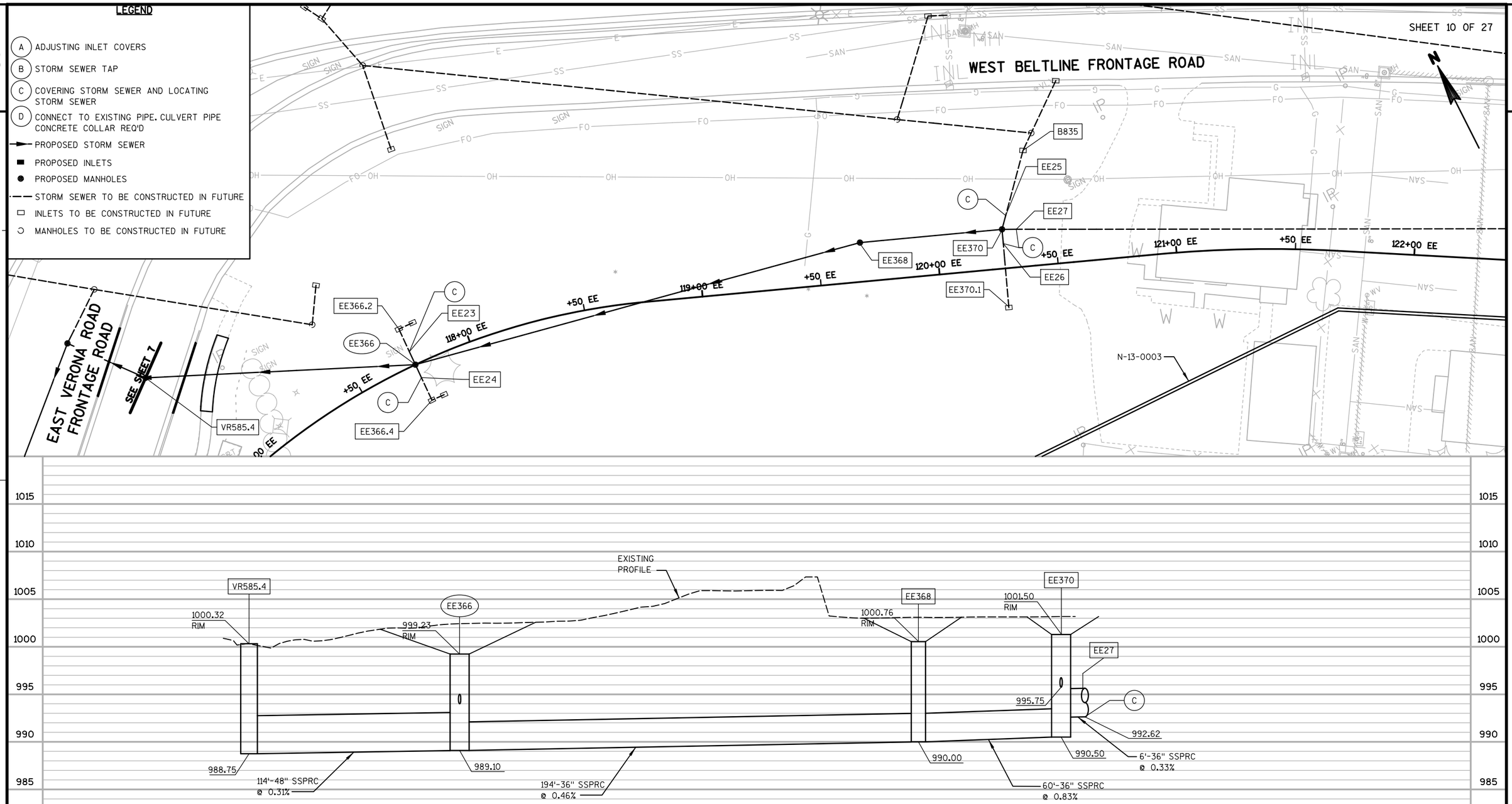
EB USH 18/151 (VERONA ROAD)



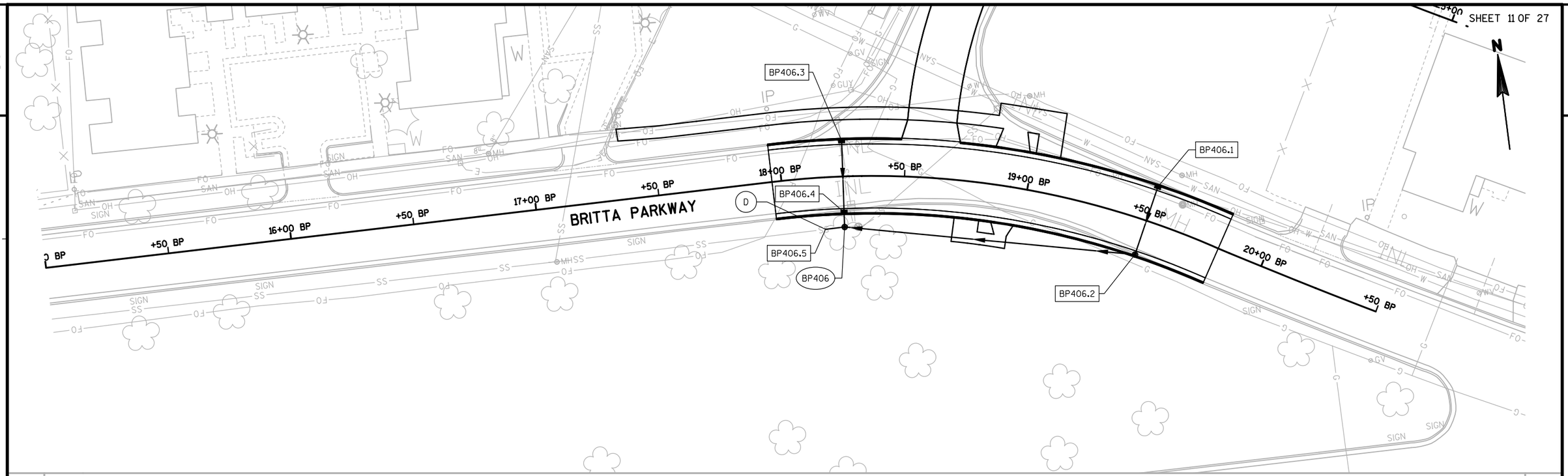
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 15/151 (VERONA ROAD)	SHEET 257	E

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

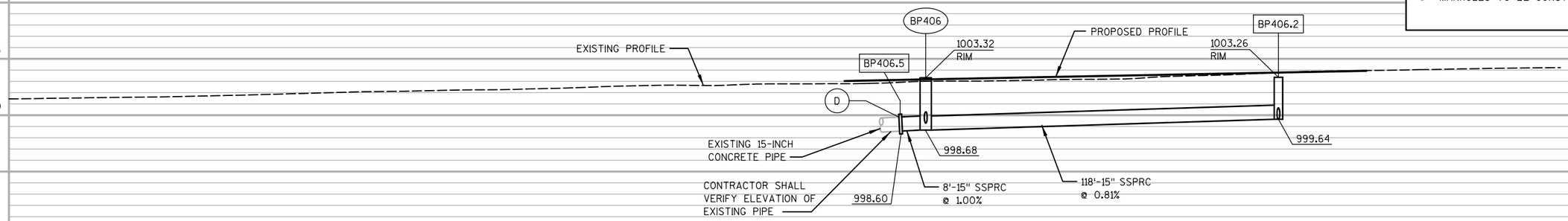


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - WEST BELTLINE FRONTAGE ROAD	SHEET 258 E



LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - BRITTA PARKWAY	SHEET 259	E

MEDICAL CIRCLE

WHITNEY WAY BIKE PATH

WB USH 12/14 (BELTLINE)

WP100.3
WP100
WP100.2
WP100.1
WP103
WP103.1
WP105
WP105.1
WP107
WP107.1
WP107.2
D
+50 WP
65+00 WP
66+00 WP
67+00 WP
68+00 WP
69+00 WP
70+00 WP
MATCHLINE STA. 70+50 WP
+50L
1065+00
1066+00
1067+00

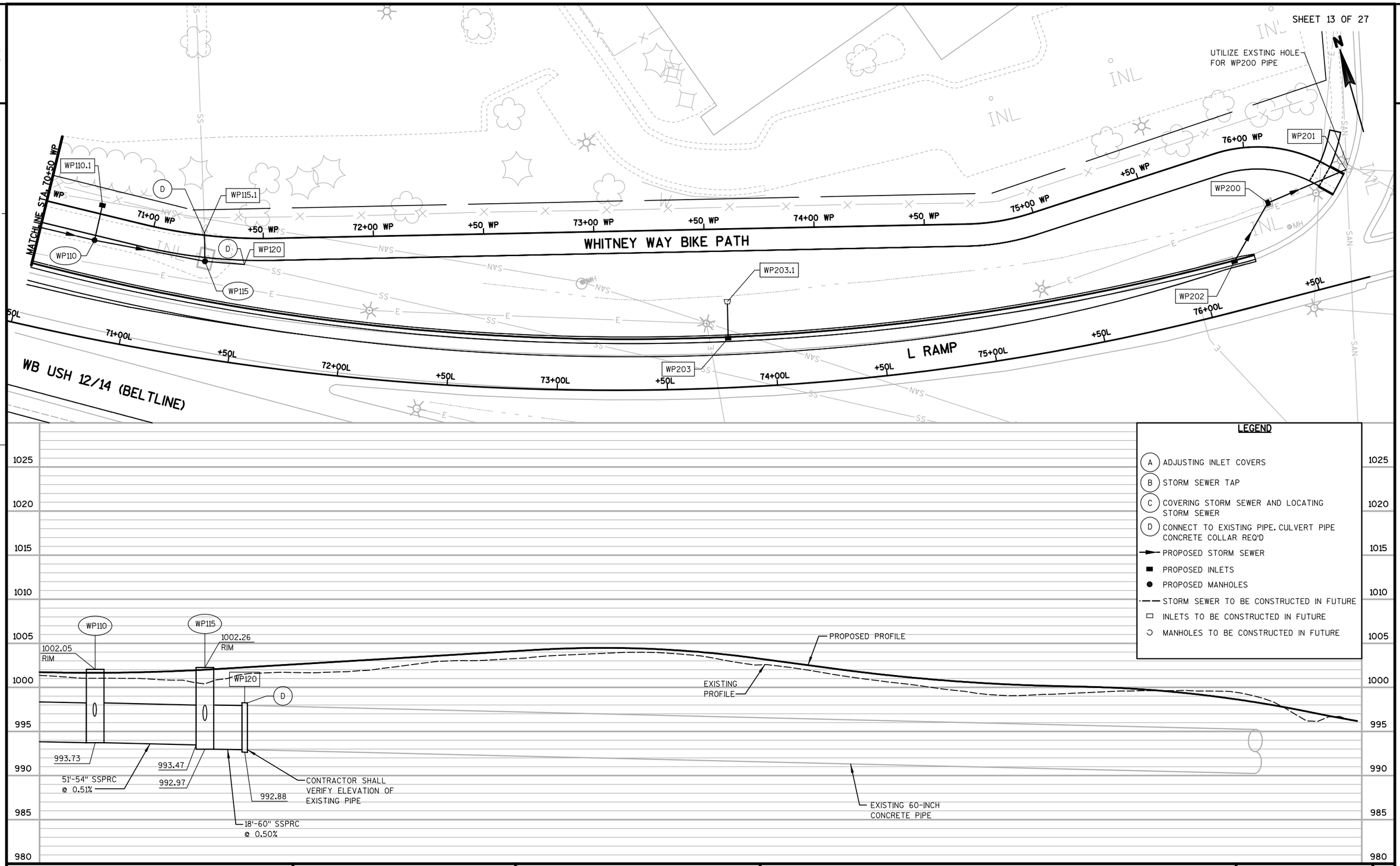
LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

EXISTING 48-INCH CONCRETE PIPE
WP100.2
6-48" @ 0.50%
WP100
1014.38 RIM
EXISTING PROFILE
PROPOSED PROFILE
WP103
1006.17 RIM
1005.50
1007.34
232'-48" SSPRC @ 2.80%
999.00
216'-48" SSPRC @ 1.84%
WP105
1003.80 RIM
WP107
1003.19 RIM
995.03
994.53
994.35
35'-54" SSPRC @ 0.51%
124'-54" SSPRC @ 0.50%
CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING PIPE

1030 1025 1020 1015 1010 1005 1000 995 990 985

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - WHITNEY WAY BIKE PATH	SHEET 260	E



LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - WHITNEY WAY BIKE PATH	SHEET 261 E

SHEET 14 OF 27

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

MATCHLINE A

MATCHLINE B

MATCHLINE C

ML204.3

ML202

ML204.2

ML203

ML214.6

ML214.4

ML214.5

ML213.1

ML213.2

DETENTION BASIN B

APPROXIMATE LOCATION OF STRUCTURE FOOTINGS (TYP.)

SEE GRADING DETAIL

ML205.1

CULVERT PIPE TEMPORARY, 42-INCH

TEMPORARY PEDESTRIAN/BICYCLE ACCESS

APRON ENDWALL FOR SSPRC BOX 3X6-FT W/ PIPE GRATE AND CUT OFF WALL

MANHOLES ML205

ML205.7

ML205.8

ML200

ML205.6

TLE

R/W

BIKE PATH

ML40

ML205.3

ML205.9

SOUTHWEST COMMUTER PATH

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1128+00

ML214.1

ML215.9

ML214

ML214.3

ML215.1

ML215.3

CONTRACTOR SHALL VERIFY ELEVATION OF EXISTING PIPE

MANHOLES ML215

ML300.3

ML300

ML300.4

ML300.2

ML300.1

WN301

HAMMERSLEY ROAD

ML204.1

ML204.5

ML204

ML204.4

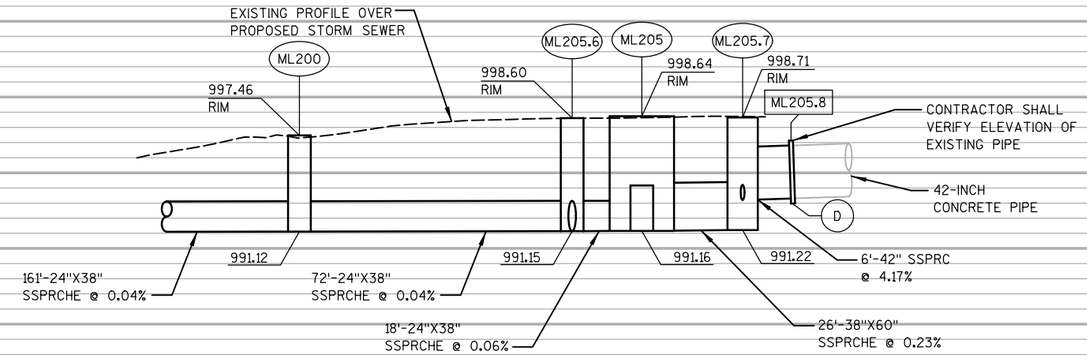
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 12/14 (BELTLINE)	SHEET 262 E

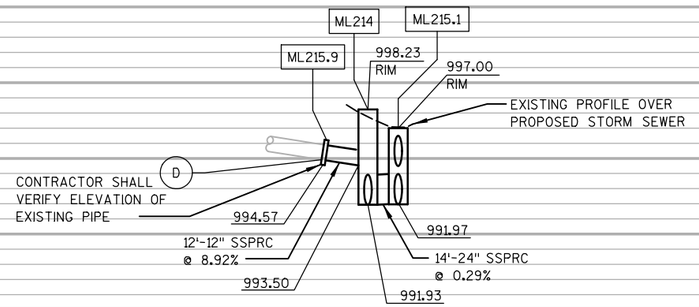
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WISDOT/CADDS SHEET 41

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
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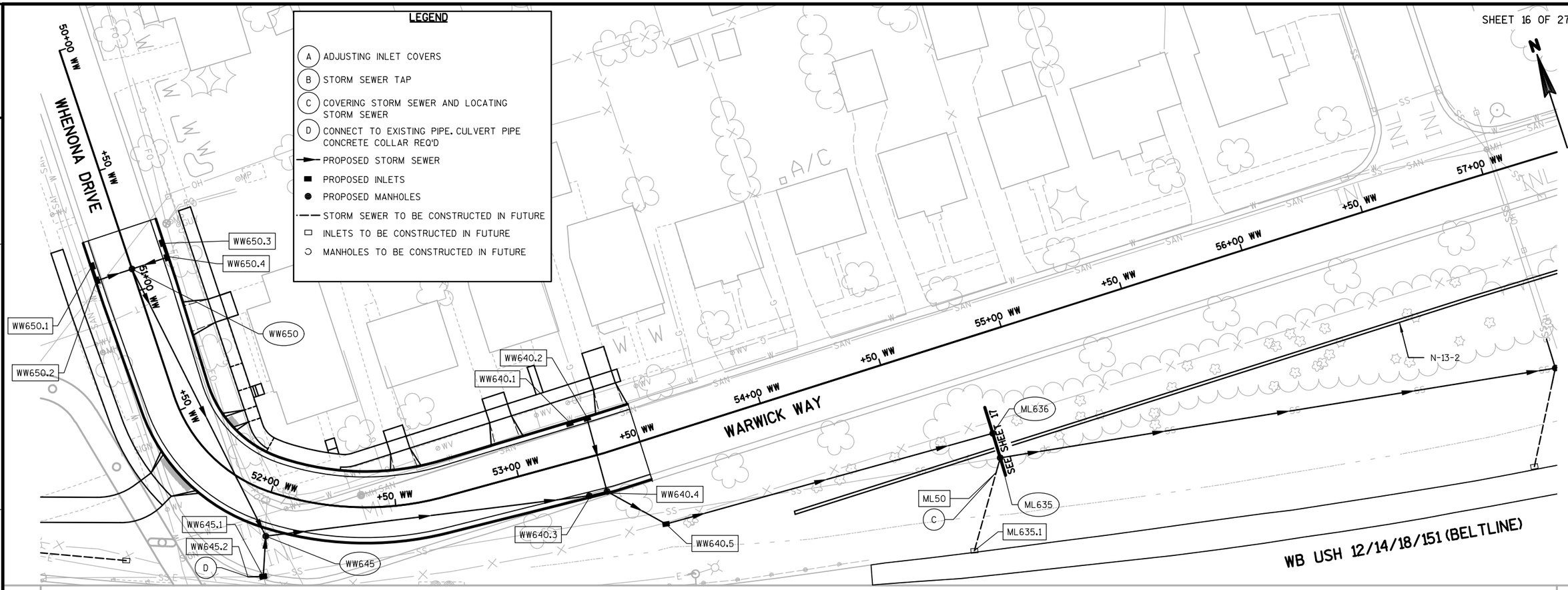


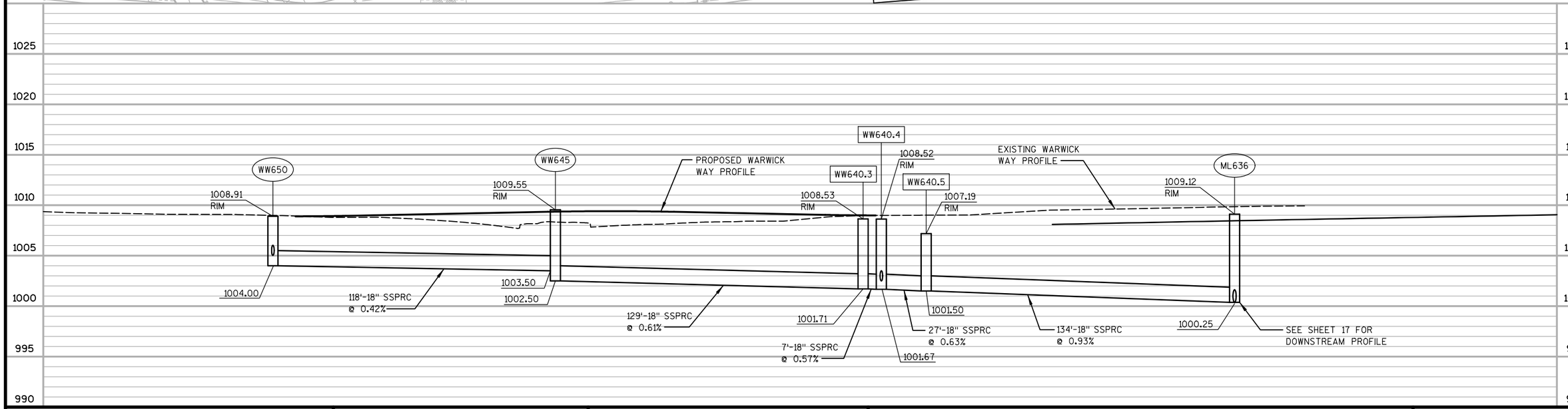


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 12/14 (BELTLINE)	SHEET 263 E

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE





PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 12/14/18/151 (BELTLINE) AND WARWICK WAY	SHEET

E

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WISDOT/CADDS SHEET 41

WARWICK WAY

N-13-2

SEE SHEET 16

ML635

ML635.1

ML630.2

ML630

ML630.1

ML51

D

C

WB USH 12/14/18/151 (BELTLINE)

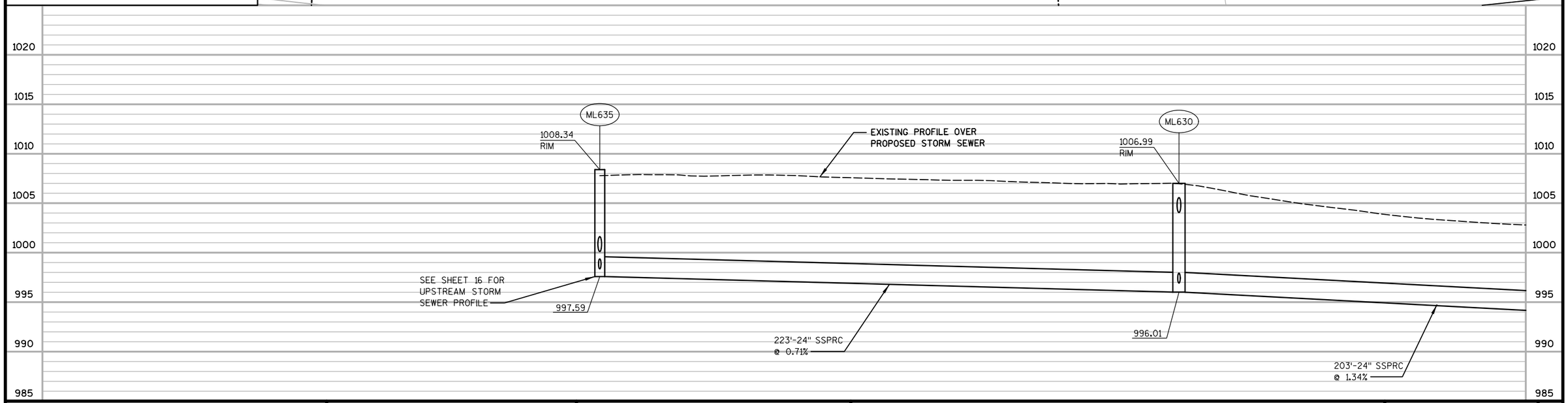
EB USH 12/14/18/151 (BELTLINE)

1159+00 +50 1160+00 +50 1161+00 +50 1162+00 +50 1163+00 +50 1164+00

MATCHLINE STA. 1164+00

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
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- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
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- MANHOLES TO BE CONSTRUCTED IN FUTURE



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 12/14/18/151 (BELTLINE)	SHEET 265	E

WARWICK WAY

N-13-2

ML625

ML620

ML615

ML610.1

ML610.2

OFFSET CASTING
1169+94.0, 74.0' LT

ML610

ML52

ML53

WB USH 12/14/18/151 (BELTLINE)

MATCHLINE STA. 1164+00

MATCHLINE STA. 1170+00

1164+00

+50

1165+00

+50

1166+00

+50

1167+00

+50

1168+00

+50

1169+00

+50

1170

ML685.1

EB USH 12/14/18/151 (BELTLINE)

SEALING PIPES REQ'D
SEAL EAST PIPE INVERT
AND DIRECT FLOW
TO THE NORTH

ML690

ML687

ML61

ML685

ML680.4

ML680.2

ML680

OFFSET CASTING
1169+58.1, 79.4' RT

ML680.1

ML680.3

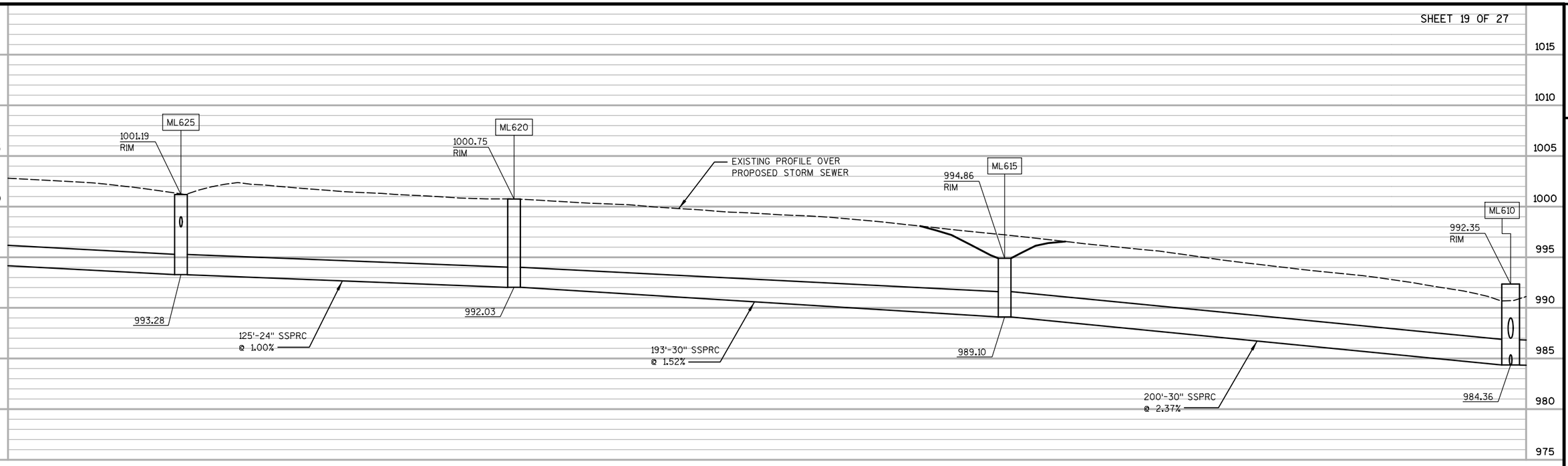
R-13-326

WEST BELTLINE FRONTAGE ROAD

LEGEND

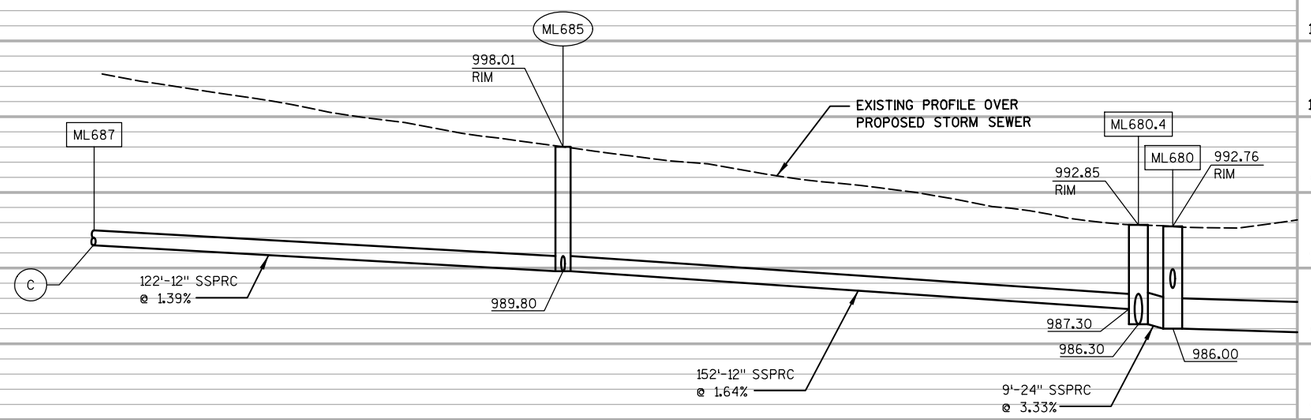
- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
- (C) COVERING STORM SEWER AND LOCATING STORM SEWER
- (D) CONNECT TO EXISTING PIPE. CULVERT PIPE CONCRETE COLLAR REQ'D
- PROPOSED STORM SEWER
- PROPOSED INLETS
- PROPOSED MANHOLES
- STORM SEWER TO BE CONSTRUCTED IN FUTURE
- INLETS TO BE CONSTRUCTED IN FUTURE
- MANHOLES TO BE CONSTRUCTED IN FUTURE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 12/14/18/151 (BELTLINE)	SHEET 266	E



LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
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- PROPOSED MANHOLES
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- MANHOLES TO BE CONSTRUCTED IN FUTURE



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 12/14/18/151 (BELTLINE)	SHEET 267	E

LEGEND

- (A) ADJUSTING INLET COVERS
- (B) STORM SEWER TAP
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- MANHOLES TO BE CONSTRUCTED IN FUTURE

N

R-13-235

B

ML605.1

ML600.2

ML600.3

C

ML600.4

C

ML54

ML605

RIPRAP

WB USH 12/14/18/151 (BELTLINE)

ML605.2

MATCHLINE STA. 1170+00

SEMINOLE HIGHWAY

+50 SH

10+00 SH

9+00 SH

1171+00

+50

1172+00

1173+00

1174+00

1175+00

MATCHLINE STA. 1176+00

ML675.1

EB USH 12/14/18/151 (BELTLINE)

ML60

C

ML673

ML675

C

ML670

R-13-236

REFER TO WEST BELTLINE FRONTAGE ROAD STORM SEWER SHEETS 22-25 OF 27

WEST BELTLINE FRONTAGE ROAD

70+00 SF

71+00 SF

72+00 SF

73+00 SF

74+00 SF

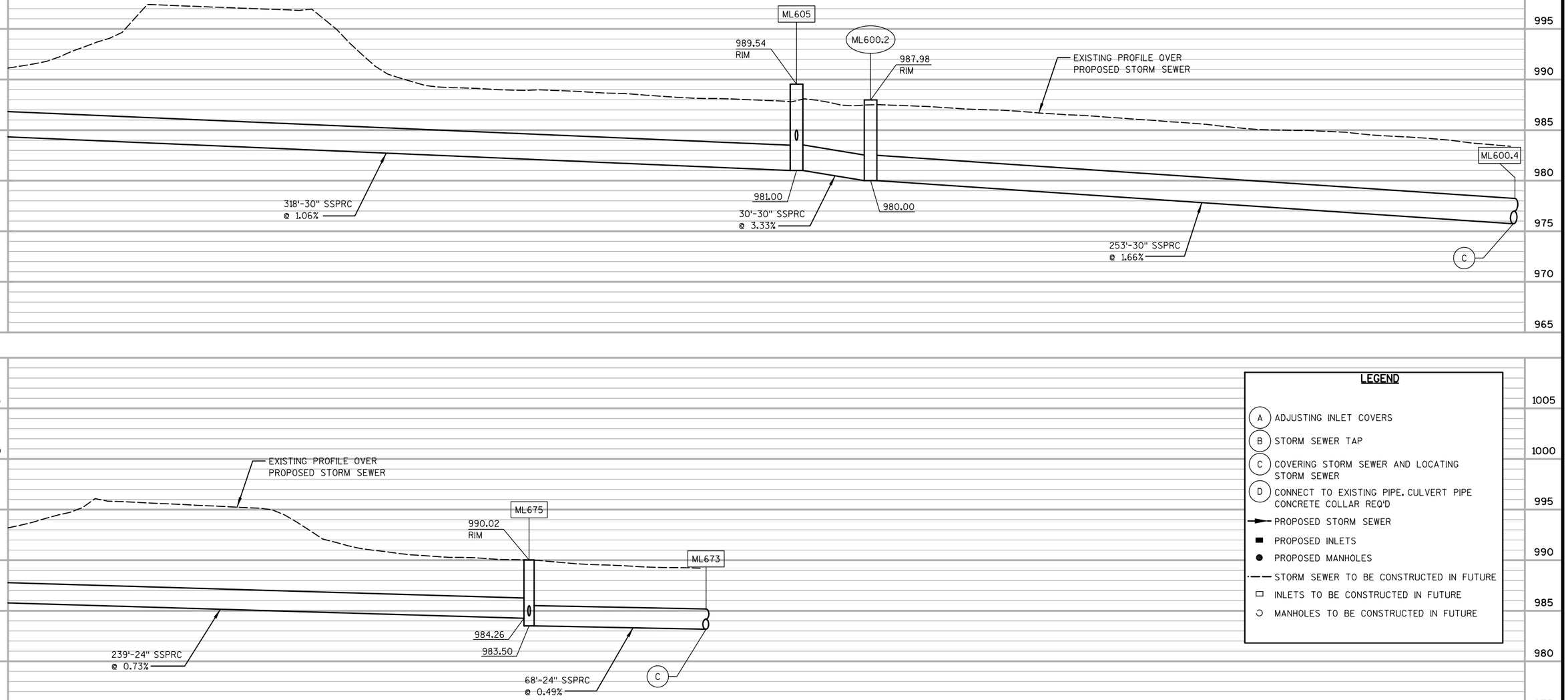
75+00 SF

+50 SF

A

A

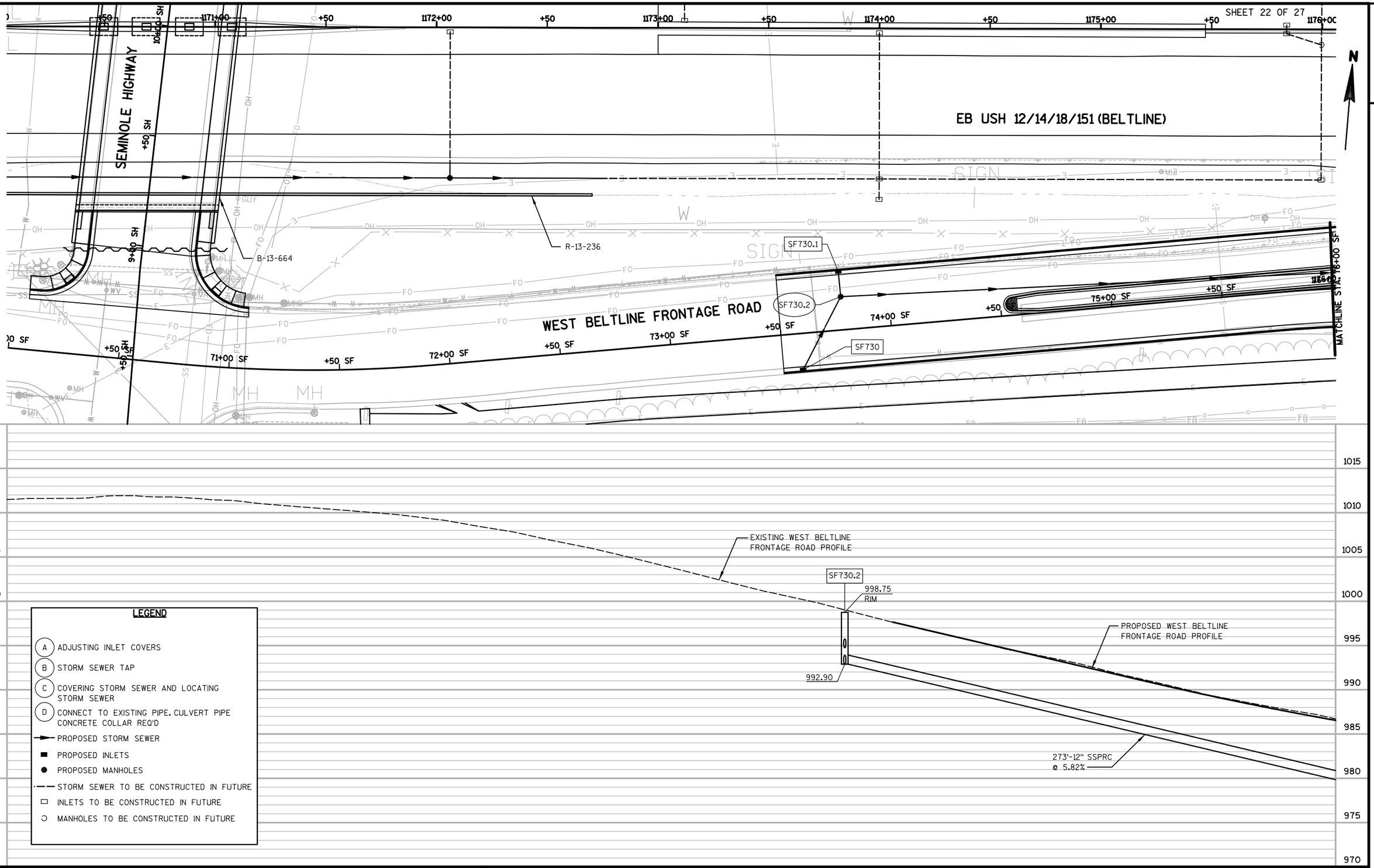
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 12/14/18/151 (BELTLINE)	SHEET 268	E



LEGEND

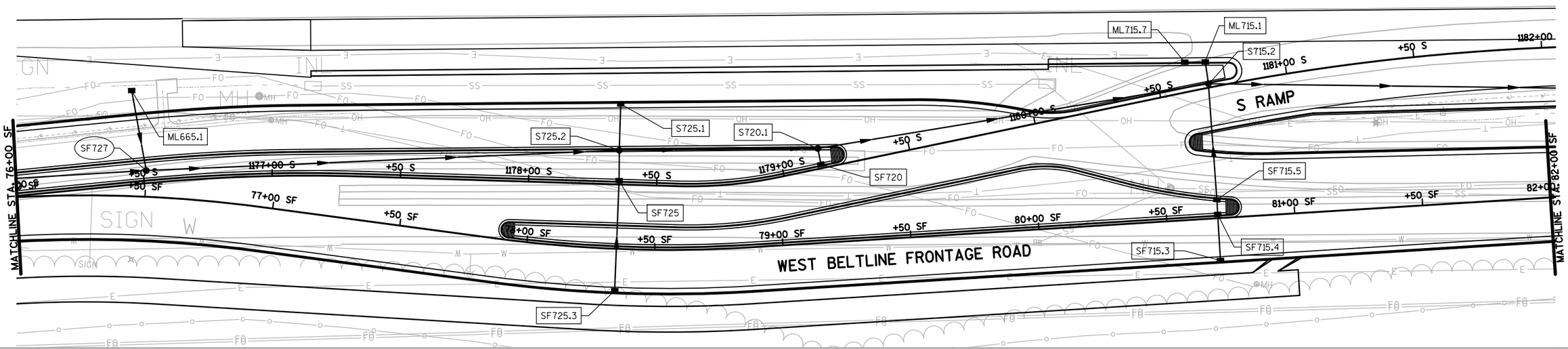
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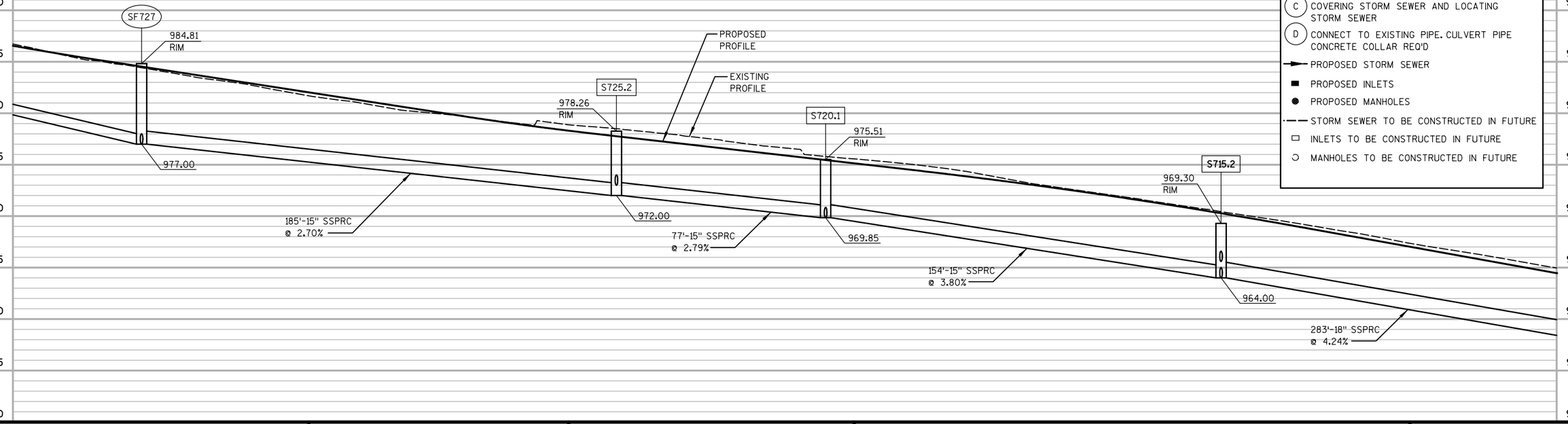
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - USH 12/14/18/151 (BELTLINE)	SHEET 269 E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - WEST BELTLINE FRONTAGE ROAD	SHEET 270 E

EB USH 12/14/18/151 (BELTLINE)



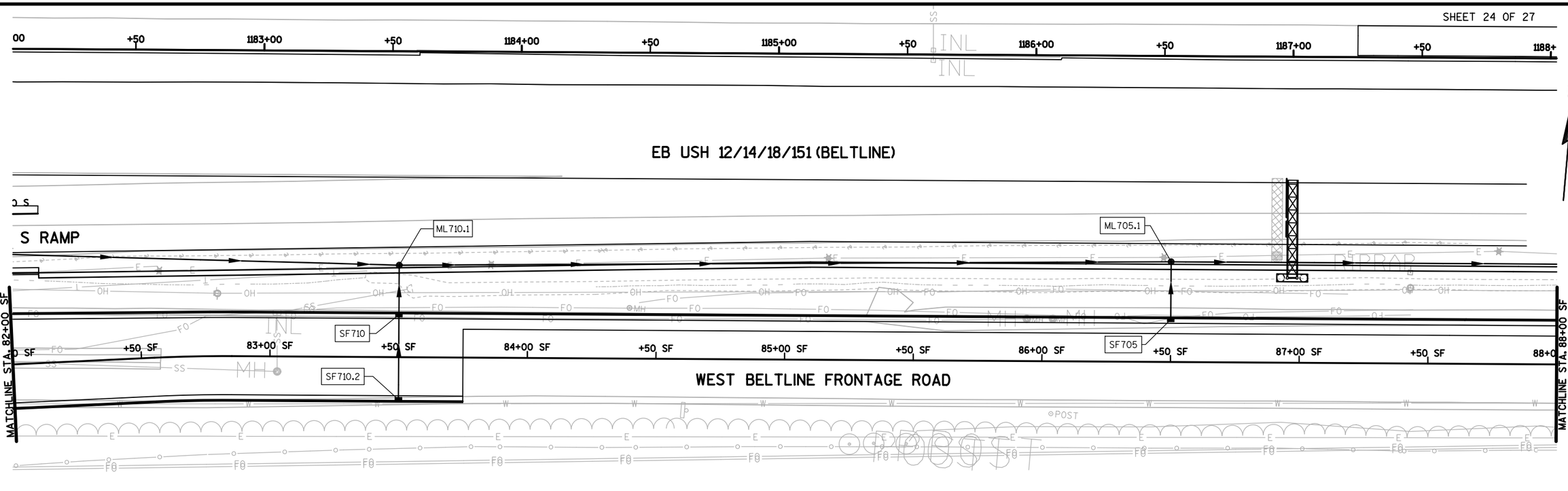


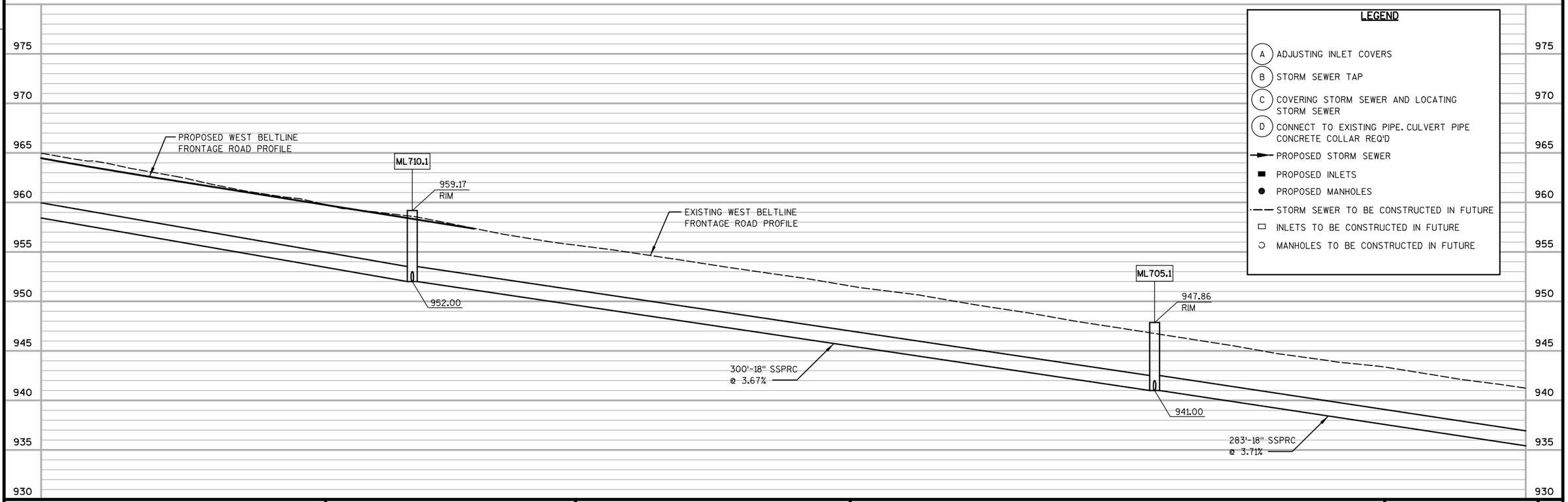
LEGEND

- (A) ADJUSTING INLET COVERS
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - WEST BELTLINE FRONTAGE ROAD	SHEET 271 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022524_ss.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41





PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - WEST BELTLINE FRONTAGE ROAD	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022525_ss.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

EB USH 12/14/18/151 (BELTLINE)

WEST BELTLINE FRONTAGE ROAD

RIVER BEND ROAD

ML700.1

SF700

SF700.2

D

MATCHLINE STA. 88+00 SF

936.93
RIM

930.50

EXISTING WEST BELTLINE
FRONTAGE ROAD PROFILE

LEGEND

- (A) ADJUSTING INLET COVERS
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - WEST BELTLINE FRONTAGE ROAD	SHEET

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\022526_ss.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

LEGEND

- (A) ADJUSTING INLET COVERS
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N

GRATE REMOVAL REQ'D
(INCIDENTAL TO REMOVING STORM SEWER ITEM)

RECONSTRUCTING MANHOLES REQ'D

ML800.1 ML805.1 ML810.3 R-13-244 ML810.4 R-13-245

ML800 ML805 ML810 ML810.7 ML810.8

WB USH 12/14/18/151 (BELTLINE)

1192+00 +50 1193+00 +50 1194+00 +50 1195+00 +50 1196+00 +50 1197+00 +50 1198+00

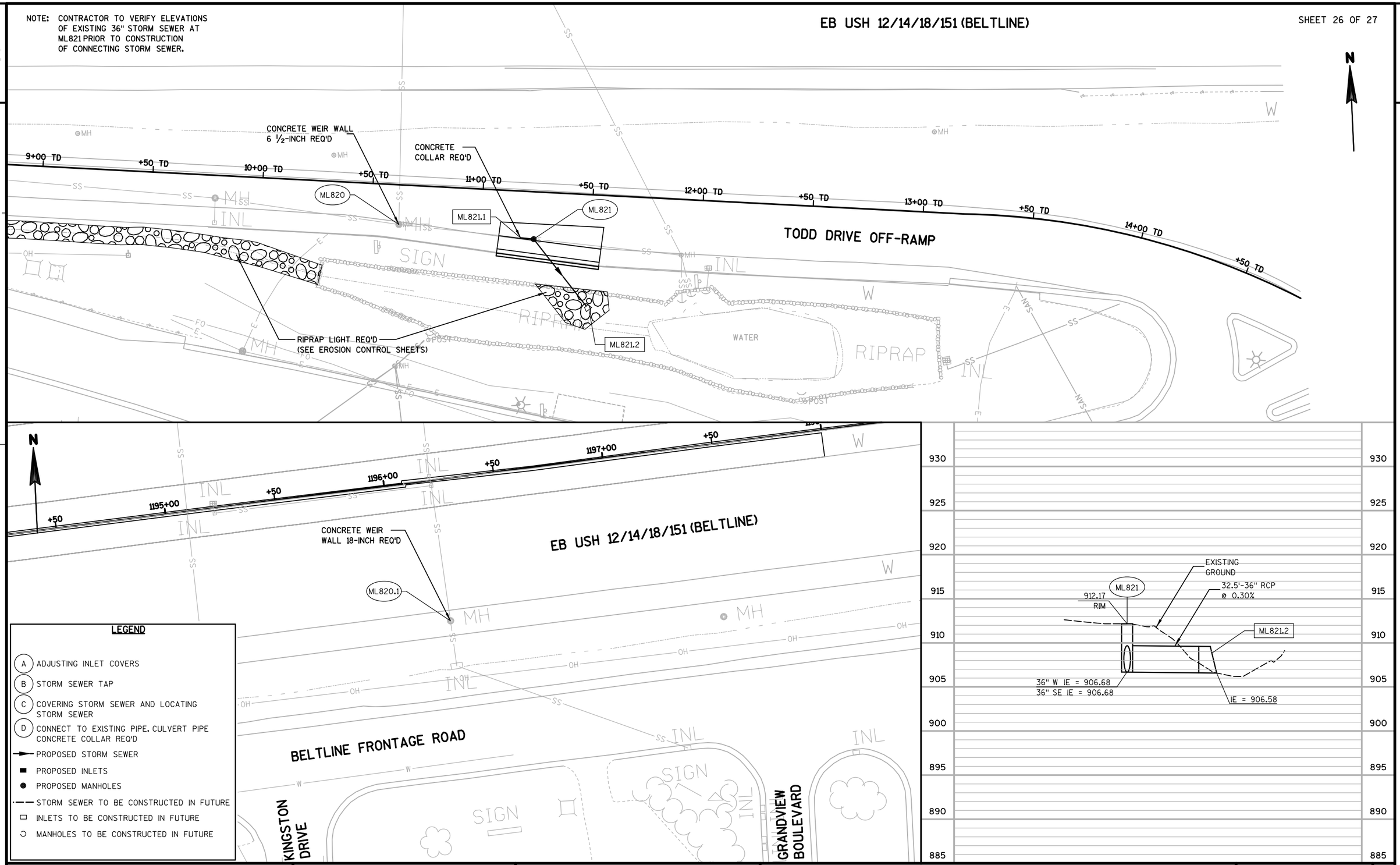
EB USH 12/14/18/151 (BELTLINE)

R/W

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - SAND AND TRASH COLLECTOR	SHEET 274	E

NOTE: CONTRACTOR TO VERIFY ELEVATIONS OF EXISTING 36" STORM SEWER AT ML821 PRIOR TO CONSTRUCTION OF CONNECTING STORM SEWER.

EB USH 12/14/18/151 (BELTLINE)



LEGEND

- (A) ADJUSTING INLET COVERS
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	STORM SEWER - TODD DRIVE EXIT RAMP	SHEET 275	E

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS	SEE STORM SEWER ADJUSTMENT TABLE	PIPE CUTOUTS FOR UNDERDRAIN
B364.1				VR20								12	993.30	993.15	26	0.58%			
B835				EE25								30	994.89	994.77	28	0.43%			
BP406	18+25.00 BP	20.5' RT	7.8	BP406.5	--	--	4-FOOT	J	1003.32	1002.07	3.39	15	998.68	998.60	8	1.00%			
BP406.1	19+50.00 BP	14.5' LT	29.0	BP406.2	2x3-FT	H	--	--	1003.24	1002.41	2.50	12	999.91	999.64	29	0.93%			
BP406.2	19+50.00 BP	14.5' RT	118.2	BP406	--	H	4-FOOT	--	1003.26	1002.43	2.79	15	999.64	998.68	118	0.81%			
BP406.3	18+25.00 BP	14.5' LT	29.0	BP406.4	2x3-FT	H	--	--	1002.52	1001.69	2.22	12	999.47	999.33	29	0.48%			
BP406.4	18+25.00 BP	14.5' RT	6.0	BP406	2x3-FT	H	--	--	1002.52	1001.69	2.36	12	999.33	999.30	6	0.50%			
BP406.5	18+16.73 BP	21.1' RT	-	EXISTING	--	--	--	--	-	-	-	--	998.60	--	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
CD400.1				VR10								24	1005.00	1004.69	30	1.03%			
EE23	117+75.22 EE	6.0' LT	6.0	EE366	--	--	--	--	-	-	-	12	994.07	994.00	6	1.17%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
EE24	117+75.16 EE	6.0' RT	6.0	EE366	--	--	--	--	-	-	-	12	994.07	994.00	6	1.17%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
EE25	120+29.97 EE	22.1' LT	6.0	EE370	--	--	--	--	-	-	-	30	994.77	994.74	6	0.50%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
EE26	120+27.87 EE	10.5' LT	6.0	EE370	--	--	--	--	-	-	-	12	995.80	995.75	6	0.83%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
EE27	120+33.87 EE	16.0' LT	6.0	EE370	--	--	--	--	-	-	-	36	992.62	992.60	6	0.33%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
EE342				VR342.3								12	989.50	988.91	6	9.83%	DROP STRUCTURE		
EE352.5				VR353.1								12	994.00	993.93	10	0.70%			
EE356.8				VR357.1								12	991.00	990.98	2	1.00%			
EE358.2				VR359.1								12	994.00	993.78	41	0.54%			
EE366	117+75.18 EE	0.0' RT	113.5	VR585.4	--	C	8-FOOT	--	999.23	997.98	8.88	48	989.10	988.75	114	0.31%		YES	
EE366.2				EE23								12	994.20	994.07	10	1.30%			
EE366.4				EE24								12	994.20	994.07	11	1.18%			
EE368	119+67.94 EE	16.5' LT	193.7	EE366	--	C	6-FOOT	--	1000.76	999.51	9.51	36	990.00	989.10	194	0.46%		YES	
EE370	120+27.90 EE	16.5' LT	60.0	EE368	--	C	8-FOOT	--	1001.50	1000.25	9.75	36	990.50	990.00	60	0.83%		YES	
EE370.1				EE26								12	996.00	995.80	27	0.74%			
EW337				VR338.1								12	992.43	992.32	22	0.50%			
EW350.4				VR90								36	988.25	988.13	26	0.46%			
FP100	18+00.00 FP	21.6' RT	18.9	FP100.1	2x3-FT	H	--	--	1007.06	1006.23	2.23	12	1004.00	1003.50	19	2.63%	CULVERT PIPE CORRUGATED STEEL 12-INCH REQ'D		
FP100.1	18+20.00 FP	21.4' RT	168.3	FP101.1	2x3-FT	H	--	--	1006.62	1005.79	3.99	15	1001.80	997.50	168	2.56%	CULVERT PIPE CORRUGATED STEEL 15-INCH REQ'D		
FP101	19+81.28 FP	37.1' LT	-	-	--	--	--	--	1001.64	-	-	-	-	-	-	-	RECONSTRUCTING MANHOLES REQ'D		
FP101.1	19+74.00 FP	41.0' LT	8.9	FP101	MEDIAN 1 GRATE	MS	--	--	1000.00	1000.00	2.50	15	997.50	997.25	9	2.78%	CULVERT PIPE CORRUGATED STEEL 15-INCH REQ'D		
ML100	1042+45.91	9.3 RT	6.0	100.1	--	--	--	--	-	-	-	24	1053.28	1053.26	6	0.33%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML100.1	1042+45.80	3.3 RT	10.4	100.2	MEDIAN 2 GRATE	MS	--	--	1061.14	1061.14	7.88	24	1053.26	1053.09	10	1.70%	REQUIRES 2 MS GRATES		
ML100.2	1042+45.83	7.1 LT	6.0	100.3	--	V	4-FOOT	--	1062.94	1061.65	8.56	24	1053.09	1052.94	6	2.50%			1
ML100.3	1042+45.94	13.1 LT	-	-	--	--	--	--	-	-	-	24	1052.94	-	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML105	1051+17.70	10.6 RT	6.0	105.1	--	--	--	--	-	-	-	24	1043.22	1043.10	6	2.00%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML105.1	1051+17.56	4.6 RT	11.7	105.2	MEDIAN 2 GRATE	MS	--	--	1047.13	1047.13	4.03	24	1043.10	1042.70	12	3.33%	REQUIRES 2 MS GRATES		
ML105.2	1051+17.37	7.0 LT	6.0	105.3	--	V	4-FOOT	--	1049.20	1047.91	5.21	24	1042.70	1042.58	6	2.00%			1
ML105.3	1051+17.34	13.0 LT	-	-	--	--	--	--	-	-	-	24	1042.58	-	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML110	1062+25.52	18.4 RT	-	-	--	--	--	--	-	-	-	24	1014.06	-	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML110.1	1062+21.40	7.0 RT	6.0	ML110	--	--	--	--	-	-	-	24	1014.11	1014.06	6	0.83%	APRON ENDWALL FOR CPRC 24-INCH REQ'D		
ML110.2	1062+16.00	7.5 LT	6.0	ML110.3	--	V	--	--	1018.44	1017.15	2.96	18	1014.19	1014.11	6	1.33%	SLOTTED VANE DRAIN TYPE A 6-FT REQ'D		
ML110.3	1062+20.58	4.9 RT	-	-	--	--	--	--	-	-	-	18	1014.11	-	-	-	APRON ENDWALL FOR CPRC 18-INCH REQ'D		
ML115	1068+45.54	7.2 RT	67.4	ML115.2	--	--	--	--	-	-	-	12	1002.50	1002.34	67	0.24%	APRON ENDWALL FOR CPRC 12-INCH REQ'D		
ML115.1	1069+30.00	4.5 LT	12.0	ML115.2	3-FT	V	--	--	1005.46	1004.17	1.77	12	1002.40	1002.34	12	0.50%			1
ML115.2	1069+18.02	4.6 LT	9.6	ML115.3	3-FT	V	--	--	1005.46	1004.17	1.83	12	1002.34	1002.30	10	0.40%			1
ML115.3	1069+17.86	14.2 LT	-	-	--	--	--	--	-	-	-	12	1002.30	-	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML200	1125+41.26	87.6' LT	161.0	ML202	--	--	6-FOOT	J	997.46	996.21	5.09	24x38	991.12	991.05	161	0.04%		YES	
ML202	1124+49.49	220.7' LT	128.5	ML203	--	--	7-FOOT	L	995.00	994.17	3.12	24x38	991.05	991.00	128	0.04%			
ML203	1123+26.22	163.6' LT	-	ENDWALL	--	--	--	--	--	-	-	24x38	991.00	--	-	-	APRON ENDWALLS FOR CPRC HORIZONTAL ELLIPTICAL 24X38-INCH REQ'D		
ML204	1122+65.32	282.1' LT	10.0	ML204.1	--	--	--	--	--	-	-	24x38	991.00	990.17	10	8.30%	APRON ENDWALLS FOR CPRC HORIZONTAL ELLIPTICAL 24X38-INCH REQ'D		
ML204.1	1122+79.39	289.7' LT	12.0	ML204.5	MEDIAN 2 GRATE	MS	--	--	995.00	995.00	4.03	24x38	990.97	990.95	12	0.17%	REQUIRES 2 MS GRATES		
ML204.2	1123+68.71	190.6' LT	129.9	ML204.3	--	--	6-FOOT	J	1001.80	1000.55	9.80	24x38	990.75	990.53	130	0.17%			
ML204.3	1124+88.45	246.2' LT	76.7	ML204.4	--	--	6-FOOT	J	996.00	994.75	4.22	24x38	990.53	990.40	77	0.17%			

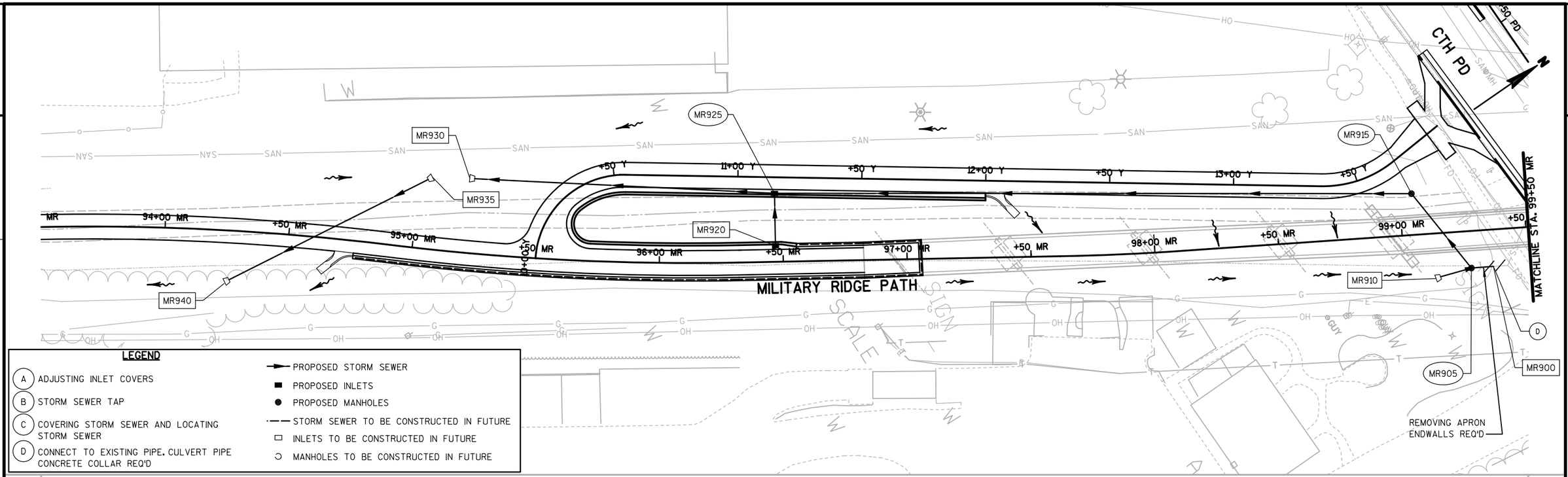
STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS	SEE STORM SEWER ADJUSTMENT TABLE	PIPE CUTOUTS FOR UNDERDRAIN
ML204.4	1124+90.87	328.8' LT	-	ENDWALL	--	--	--	--	--	-	-	--	990.40	--	-	-	APRON ENDWALLS FOR CPRC HORIZONTAL ELLIPTICAL 24X38-INCH REQ'D		
ML204.5	1122+89.95	295.5' LT	131.1	ML204.2	--	--	7-FOOT	J	998.00	996.75	5.80	24x38	990.95	990.75	131	0.15%			
ML205	1126+31.70	81.4' LT	18.4	ML205.6	--	--	--	J	998.64	997.39	7.06	24x38	991.16	991.15	18	0.06%	MANHOLES ML205 REQ'D	YES	
ML205	1126+31.70	81.4' LT	90.5	ML205.1	--	--	--	--	998.64	997.39	7.06	3'X6'	991.16	991.06	91	0.11%		YES	
ML205.1	1125+76.88	153.8' LT	-	ENDWALL	--	--	--	--	--	-	-	--	991.06	--	-	-	APRON ENDWALL FOR SSPRC BOX 3X6-FT REQ'D		
ML205.3				ML40								24	991.19	991.17	4	0.50%			
ML205.6	1126+13.27	82.8' LT	71.6	ML200	--	--	7-FOOT	J	998.60	997.35	6.20	24x38	991.15	991.12	72	0.04%		YES	
ML205.7	1126+58.28	81.9' LT	26.4	ML205	--	--	8-FOOT	J	998.71	997.46	6.24	38x60	991.22	991.16	26	0.23%		YES	
ML205.7	1126+58.28	81.9' LT	138.3	ML206	--	--	--	--	--	-	-	42	991.22	991.00	138	0.16%	CULVERT PIPE TEMPORARY 42-INCH		
ML205.8	1126+64.33	81.8' LT	6.0	ML205.7	--	--	--	--	--	-	-	42	993.40	993.20	6	3.33%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML205.9	1126+62.45	77.0' LT	6.4	ML205.7	--	--	--	--	--	-	-	12	993.45	993.20	6	4.17%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML206	1125+63.80	183.9' LT	-	-	--	--	--	--	--	-	-	42	991.00	--	-	-			
ML213.1	1123+54.54	78.1' LT	58.9	ML214.5	--	--	4-FOOT	J	998.07	996.82	4.32	18	992.50	991.17	59	2.25%			
ML213.2	1123+54.61	72.1' LT	6.0	ML213.1	--	--	--	--	--	-	-	18	995.03	995.00	6	0.50%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML214	1125+52.47	70.0' RT	67.6	ML214.1	--	--	5-FOOT	J	998.23	996.98	5.05	24	991.93	991.73	68	0.29%		YES	
ML214.1	1125+52.21	2.4' RT	88.9	ML214.2	--	C	5-FOOT	--	996.79	995.54	3.81	24	991.73	991.47	89	0.29%		YES	
ML214.2	1125+10.00	76.0' LT	99.2	ML214.4	--	--	5-FOOT	J	997.71	996.46	4.99	24	991.47	991.17	99	0.30%		YES	
ML214.3	1125+70.07	88.1' RT	12.0	ML215.1	--	--	--	--	--	-	-	24	994.97	993.10	12	15.58%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML214.4	1124+40.78	147.7' LT	56.1	ML214.5	--	--	4-FOOT	J	998.40	997.15	5.78	24	991.37	991.17	56	0.36%			
ML214.5	1123+88.17	126.6' LT	51.8	ML214.6	--	--	6-FOOT	J	1000.10	998.85	7.68	30	991.17	991.00	52	0.33%			
ML214.6	1123+32.03	142.0' LT	-	ENDWALL	--	--	--	--	--	-	-	--	991.00	--	-	-	APRON ENDWALLS FOR CPRC 30-INCH REQ'D		
ML215	1126+45.53	79.2' RT	161.2	ML205	--	--	--	L	--	-	6.31	3'X6'	991.32	991.16	161	0.10%	MANHOLES ML215 REQ'D		
ML215.1	1125+60.47	81.0' RT	13.7	ML214	--	B	5-FOOT	--	997.00	995.84	3.87	24	991.97	991.93	14	0.29%			
ML215.3	1125+49.80	86.3' RT	12.0	ML215.1	--	--	--	--	--	-	-	24	994.90	993.00	12	15.83%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML215.9	1125+40.58	70.8' RT	12.0	ML214	--	--	--	--	--	-	-	24	994.57	993.50	12	8.92%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML300	1126+51.46	101.1' RT	9.3	ML300.4	--	B	9-FOOT	--	997.00	995.84	4.45	29X45	991.39	991.35	9	0.44%			
ML300.1	1126+53.50	106.8' RT	6.0	ML300	--	--	--	--	--	-	-	24	993.46	993.09	6	6.17%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML300.2	1126+57.39	101.5' RT	6.0	ML300	--	--	--	--	--	-	-	29X45	991.41	991.39	6	0.33%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
ML300.3	1126+69.78	84.3' RT	25.0	ML215	--	--	--	--	--	-	-	12	993.76	992.45	25	5.24%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML300.4	1126+48.60	92.2' RT	13.4	ML215	MEDIAN 2 GRATE	MS	--	--	995.00	995.00	3.65	29X45	991.35	991.32	13	0.23%	REQUIRES 2 MS GRATES		
ML40	1126+13.27	76.8' LT	6.0	ML205.6	--	--	--	--	--	-	-	24	991.17	991.15	6	0.33%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
ML50	1160+22.95	113.7' LT	6.0	ML635	--	--	--	--	--	-	-	12	998.43	998.37	6	1.00%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
ML51	1162+57.00	108.1' LT	6.0	ML630	--	--	--	--	--	-	-	12	996.96	996.93	6	0.50%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
ML52	1164+69.70	83.8' LT	6.0	ML625	--	--	--	--	--	-	-	12	998.30	998.00	6	5.00%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML53	1169+93.74	66.0' LT	6.0	ML610	--	--	--	--	--	-	-	24	987.60	986.77	6	13.83%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML54	1173+11.92	65.1' LT	6.0	ML605	--	--	--	--	--	-	-	12	984.42	984.37	6	0.83%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
ML60	1172+06.14	62.0' RT	6.0	ML675	--	--	--	--	--	-	-	12	984.55	984.50	6	0.83%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
ML600.2	1173+41.21	78.6' LT	253.2	ML600.4	--	--	5-FOOT	J	987.98	986.73	6.73	30	980.00	975.80	253	1.66%		YES	
ML600.4	1175+94.36	73.1' LT		ML600.3								30	975.80	975.70	6	1.67%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
ML605	1173+11.92	71.1' LT	30.2	ML600.2	--	--	6-FOOT	J	989.54	988.29	7.29	30	981.00	980.00	30	3.33%		YES	
ML605.1	1173+12.14	77.1' LT	6.0	ML605	--	--	--	--	--	-	-	12	984.36	984.00	6	6.00%	STORM SEWER TAP REQ'D		
ML605.2				ML54								12	984.89	984.42	62	0.76%			
ML61	1168+06.14	62.0' RT	6.0	ML685	--	--	--	--	--	-	-	12	989.84	989.80	6	0.67%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
ML610	1169+93.92	72.0' LT	318.0	ML605	--	C	7-FOOT	--	992.35	991.10	6.74	30	984.36	981.00	318	1.06%	OFFSET CASTING	YES	
ML610.1	1170+02.32	86.9' LT	6.0	ML610.2	--	--	--	--	--	-	-	12	991.08	990.09	6	16.50%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML610.2	1169+98.92	82.0' LT	11.2	ML610	MEDIAN 1 GRATE	MS	--	--	993.90	993.90	5.90	12	988.00	987.43	11	5.18%			
ML615	1167+93.92	72.0' LT	200.0	ML610	--	C	5-FOOT	--	994.86	993.61	4.51	30	989.10	984.36	200	2.37%		YES	
ML620	1166+00.00	79.2' LT	193.1	ML615	--	B	5-FOOT	--	1000.75	999.59	7.56	30	992.03	989.10	193	1.52%		YES	
ML625	1164+70.49	89.7' LT	125.2	ML620	MEDIAN 2 GRATE	MS	--	--	1001.19	1001.19	7.91	24	993.28	992.03	125	1.00%	REQUIRES 2 MS GRATES	YES	
ML630	1162+59.72	113.5' LT	202.9	ML625	--	--	5-FOOT	J	1006.99	1005.74	9.73	24	996.01	993.28	203	1.34%			
ML630.1				ML51								12	997.13	996.96	34	0.51%			
ML630.2	1162+58.97	125.5' LT	12.0	ML630	--	--	--	--	--	-	-	18	1004.19	1003.50	12	5.75%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML635	1160+25.44	119.2' LT	222.5	ML630	--	--	4-FOOT	J	1008.34	1007.09	9.50	24	997.59	996.01	223	0.71%			
ML635.1				ML50								12	998.74	998.43	32	0.98%			
ML636	1160+23.71	129.2' LT	10.1	ML635	--	--	4-FOOT	J	1009.12	1007.87	7.62	18	1000.25	1000.12	10	1.30%			
ML665.1	1176+50.00	76.0' RT	31.7	SF727	MEDIAN 1 GRATE	MS	--	--	983.60	983.60	5.60	12	978.00	977.00	32	3.13%			
ML670				ML665								24	981.80	977.00	200	2.40%			

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS	SEE STORM SEWER ADJUSTMENT TABLE	PIPE CUTOUTS FOR UNDERDRAIN
ML673	1172+73.80	68.0' RT		ML670								24	983.17	982.57	126	0.48%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
ML675	1172+06.14	68.0' RT	67.7	ML673	--	--	4-FOOT	J	990.02	988.77	5.27	24	983.50	983.17	68	0.49%		YES	
ML675.1				ML60								12	985.00	984.55	60	0.75%			
ML680	1169+67.09	68.0' RT	239.1	ML675	--	C	5-FOOT	--	992.76	991.51	5.51	24	986.00	984.26	239	0.73%	SEALING PIPES REQ'D	YES	
ML680	1169+67.09	68.0' RT	6.0	ML680.2	--	--	--	--	--	-	-	24	986.00	985.95	6	0.83%		YES	
ML680.1	1169+58.04	79.9' RT	11.9	ML680.4	--	C	4-FOOT	--	1004.10	1002.85	15.95	24	986.90	986.30	12	5.00%	OFFSET CASTING		
ML680.2	1169+67.70	62.0' RT	-	-	--	--	--	--	--	-	-	24	985.95	--	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML680.3	1169+53.18	83.5' RT	6.0	ML680.1	--	--	--	--	--	-	-	18	990.54	990.30	6	4.00%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML680.4	1169+58.05	68.0' RT	9.0	ML680	--	C	5-FOOT	--	992.85	991.60	5.30	24	986.30	986.00	9	3.33%		YES	
ML685	1168+06.14	68.0' RT	151.9	ML680.4	--	C	4-FOOT	--	998.01	996.76	6.96	12	989.80	987.30	152	1.64%		YES	
ML685.1				ML61								12	990.20	989.84	60	0.60%			
ML687	1166+84.44	66.6' RT	121.7	ML685	--	--	--	--	--	-	-	12	991.50	989.80	122	1.39%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
ML690				ML687								12	994.00	991.50	181	1.38%			
ML700.1	1189+36.14	80.0' RT	22.6	SF700	--	V	4-FOOT	--	936.93	935.64	5.14	18	930.50	930.20	23	1.30%			1
ML705.1	1186+52.90	80.0' RT	283.2	ML700.1	--	V	4-FOOT	--	947.86	946.57	5.57	18	941.00	930.50	283	3.71%			1
ML710.1	1183+52.90	83.2' RT	300.0	ML705.1	--	V	4-FOOT	--	959.17	957.88	5.88	18	952.00	941.00	300	3.67%			1
ML715.1	1180+68.82	68.7' RT	8.6	S715.2	2x3-FT	HM	--	--	970.65	969.82	3.92	12	965.90	965.60	9	3.33%			
ML715.7	1180+60.80	68.7' RT	8.0	ML715.1	3-FT	HM	--	--	970.93	970.10	4.10	12	966.00	965.90	8	1.25%			1
ML800	1194+49.00	66.6' LT	10.0	ML800.1	3-FT	V	--	--	922.08	920.79	3.29	12	917.50	917.40	10	1.00%			1
ML800.1	1194+49.00	82.7' LT	-	-	--	--	--	--	-	-	-	12	917.40	-	-	-	APRON ENDWALL FOR CPRC 12-INCH REQ'D		
ML805	1195+00.00	69.5' LT	7.0	ML805.1	3-FT	V	--	--	921.66	920.37	2.96	12	917.41	917.31	7	1.43%			1
ML805.1	1195+00.02	82.6' LT	-	-	--	--	--	--	-	-	-	12	917.31	-	-	-	APRON ENDWALL FOR CPRC 12-INCH REQ'D		
ML810	1195+55.00	72.6' LT	49.0	ML805	3-FT	V	--	--	921.66	920.37	2.72	12	917.65	917.41	49	0.49%			1
ML810.3	1195+11.40	81.1' LT	108.9	ML810.4	--	--	--	--	-	-	-	42	909.01	905.28	109	3.42%	STORM SEWER TAP		
ML810.4	1196+20.06	88.7' LT	-	-	--	--	--	--	-	-	-	42	905.28	-	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML810.7	1196+22.66	71.8' LT	8.0	ML810.8	--	--	--	--	-	-	-	24	907.60	907.28	8	4.00%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML810.8	1196+22.86	79.8' LT	-	-	--	--	--	--	-	-	-	24	907.28	-	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML821	1211+27.54	126.5' RT	32.5	ML821.2	--	--	5-FOOT	J	912.17	910.92	4.24	36	906.68	906.58	33	0.30%			
ML821.1	1211+21.58	125.9' RT	6.0	ML821	--	--	--	--	-	-	-	36	906.71	906.68	6	0.50%	CULVERT PIPE CONCRETE COLLAR REQ'D		
ML821.2	1211+52.64	158.5' RT	-	-	--	--	--	--	-	-	-	36	906.58	-	-	-	APRON ENDWALL FOR CPRC 36-INCH REQ'D		
S715.2	1180+69.33 S	1.5' LT	283.0	ML710.1	--	HM-GJ	4-FOOT	--	969.30	968.47	4.47	18	964.00	952.00	283	4.24%			1
S720.1	1179+15.06 S	7.9' LT	154.4	S715.2	--	HM	4-FOOT	--	975.51	974.68	4.83	15	969.85	964.00	154	3.80%			
S725.1	1178+35.00 S	31.3' LT	18.0	S725.2	2x3-FT	H	--	--	978.42	977.59	4.84	12	972.75	972.25	18	2.78%			1
S725.2	1178+35.00 S	13.3' LT	77.4	S720.1	--	HM	4-FOOT	--	978.26	977.43	5.43	15	972.00	969.85	77	2.79%			
SF700	89+30.68 SF	16.5' LT	5.6	SF700.2	--	H	4-FOOT	--	936.16	935.33	5.13	24	930.20	930.00	6	3.33%			
SF700.2	89+29.79 SF	11.0' LT	-	EXISTING	--	--	--	--	--	-	-	24	930.00	--	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
SF705	86+50.00 SF	16.5' LT	22.4	ML705.1	2x3-FT	H	--	--	946.30	945.47	4.27	12	941.20	941.00	22	0.91%			
SF710	83+50.00 SF	16.5' LT	19.3	ML710.1	2x3-FT	H	--	--	957.83	957.00	4.56	12	952.44	952.00	19	2.32%			
SF710.2	83+50.00 SF	16.5' RT	33.0	SF710	2x3-FT	H	--	--	957.84	957.01	3.81	12	953.20	952.44	33	2.30%			1
SF715.3	80+70.00 SF	16.5' RT	18.0	SF715.4	2x3-FT	H	--	--	969.76	968.93	3.63	12	965.30	965.00	18	1.67%			1
SF715.4	80+70.00 SF	1.5' LT	5.7	SF715.5	2x3-FT	HM	--	--	970.06	969.23	3.83	12	965.40	965.30	6	1.67%			
SF715.5	80+70.07 SF	7.2' LT	45.3	S715.2	2x3-FT	HM	--	--	970.06	969.23	4.23	12	965.00	964.00	45	2.22%			
SF720	79+16.79 SF	30.5' LT	6.4	S720.1	2x3-FT	HM	--	--	975.28	974.45	4.45	12	970.00	969.85	6	2.50%			
SF725	78+35.00 SF	26.6' LT	11.8	S725.2	2x3-FT	HM	--	--	978.20	977.37	4.62	12	972.75	972.25	12	4.17%			
SF725.3	78+35.02 SF	16.3' RT	43.0	SF725	2x3-FT	H	--	--	977.25	976.42	3.42	12	973.00	972.75	43	0.58%			1
SF727	76+50.00 SF	10.2' LT	184.7	S725.2	--	--	4-FOOT	J	984.81	983.56	6.56	15	977.00	972.00	185	2.70%			
SF730	73+58.66 SF	16.5' RT	37.2	SF730.2	2x3-FT	H	--	--	999.67	998.84	3.84	12	995.00	994.75	37	0.68%			
SF730.1	73+78.25 SF	26.5' LT	11.5	SF730.2	2x3-FT	H	--	--	998.52	997.69	4.51	12	993.18	992.90	12	2.35%			
SF730.2	73+78.36 SF	15.0' LT	273.0	SF727	--	--	4-FOOT	J	998.75	997.50	4.60	12	992.90	977.00	273	5.82%			
SU408				VR354.1								36	992.35	992.04	47	0.66%			
SU408.2				VR407								12	994.30	994.05	29	0.86%			
VR10	971+76.19 VR	111.1' RT	211.8	VR398	--	--	--	--	--	-	-	24	1004.69	1002.50	212	1.03%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR1000.5	970+39.50 VR	249.7' RT	-	-	--	--	--	--	--	-	-	12	1004.16	-	-	-	APRON ENDWALLS FOR CULVERT PIPE 12-INCH REQ'D		
VR1000.6	971+79.32 VR	130.0' RT	184.1	VR1000.5	--	--	4-FOOT	J	1008.24	1006.99	2.44	12	1004.55	1004.16	184	0.21%	CULVERT PIPE CORRUGATED STEEL 12-INCH REQ'D		
VR12	973+93.96 VR	111.5' RT		CD399								24	1002.47	1002.00	105	0.45%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		

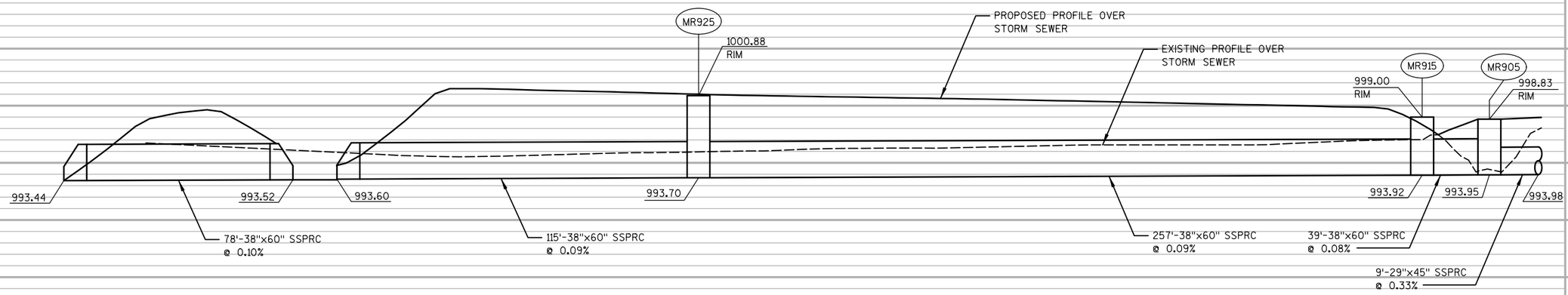
STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS	SEE STORM SEWER ADJUSTMENT TABLE	PIPE CUTOUTS FOR UNDERDRAIN
VR18	994+02.28 VR	104.5' RT	6.0	VR358.9	--	--	--	--	--	-	-	12	991.05	991.00	6	0.83%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR19	994+11.13 VR	89.9' RT	6.0	VR813	--	--	--	--	--	-	-	24X38	993.01	992.99	6	0.33%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR20	996+50.09 VR	102.9' RT	6.0	VR814	--	--	--	--	--	-	-	12	993.15	993.12	6	0.50%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR200	973+85.00 VR	126.2' RT	70.1	VR201	2x3-FT	H	--	--	1009.17	1008.34	3.34	12	1005.00	1004.82	70	0.26%	CULVERT PIPE CORRUGATED STEEL 12-INCH REQ'D		
VR200.1	974+91.35 VR	124.3' RT	107.2	VR200	2x3-FT	H	--	--	1008.44	1007.61	2.01	12	1005.60	1005.25	107	0.33%	CULVERT PIPE CORRUGATED STEEL 12-INCH REQ'D		
VR201	973+15.00 VR	122.0' RT	135.9	VR1000.6	2x3-FT	H	--	--	1009.58	1008.75	3.93	12	1004.82	1004.55	136	0.20%	CULVERT PIPE CORRUGATED STEEL 12-INCH REQ'D		
VR205	971+15.60 VR	151.2' RT	-	-	--	--	--	--	--	-	-	12	1004.50	-	-	-	APRON ENDWALL FOR CULVERT PIPE 12-INCH REQ'D		
VR206	972+85.85 VR	3.4' RT	225.4	VR205	MEDIAN 1 GRATE	MS	--	--	1010.68	1010.68	1.68	12	1009.00	1004.50	225	2.00%	CULVERT PIPE CORRUGATED STEEL 12-INCH REQ'D		
VR21	996+50.10 VR	90.9' RT	6.0	VR814	--	--	--	--	--	-	-	15	993.04	993.00	6	0.67%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR22	997+58.67 VR	98.8' RT	6.0	VR585.5	--	--	--	--	--	-	-	18	986.78	986.77	6	0.17%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR28	986+28.46 VR	7.2' LT	6.0	VR30	--	H	4-F00T	--	998.96	998.13	5.11	24	993.02	992.99	6	0.50%			
VR29	986+28.69 VR	1.2' LT	6.0	VR28	--	--	--	--	--	-	-	24	993.05	993.02	6	0.50%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR30	986+28.24 VR	13.2' LT	-	-	--	--	--	--	--	-	-	24	992.99	-	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR31	987+11.06 VR	8.7' LT	82.6	VR28	--	--	--	--	--	-	-	12	994.46	993.02	83	1.73%	STORM SEWER TAP AND ADJUSTING INLET COVERS REQ'D		
VR332	983+74.32 VR	106.3' LT	104.7	VR334	--	C	9-F00T	--	998.00	996.75	13.01	60	983.74	983.54	105	0.19%	PIPE TIES REQ'D	YES	
VR332.1	986+15.91 VR	134.4' LT	16.7	VR332.5	--	--	--	--	--	-	-	12	992.09	992.00	17	0.53%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR332.2	986+46.16 VR	102.1' LT	271.9	VR332	--	--	9-F00T	J	998.22	996.97	12.70	60	984.27	983.74	272	0.19%		YES	
VR332.3	986+25.99 VR	69.1' LT	38.7	VR332.2	--	--	--	--	--	-	-	24	992.73	992.30	39	1.10%	COVER PLATES AND STORM SEWER TAP REQ'D		
VR332.5	986+18.12 VR	117.8' LT	32.2	VR332.2	--	--	3-F00T	J	996.77	995.52	3.52	12	992.00	991.85	32	0.47%		YES	
VR332.6	983+75.02 VR	112.3' LT	6.0	VR332	--	--	--	--	--	-	-	42	986.79	986.75	6	0.67%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR332.7	986+97.00 VR	93.0' LT	51.5	VR332.2	MEDIAN 1 GRATE	MS	--	--	996.00	996.00	2.00	15	994.00	993.80	52	0.38%	CULVERT PIPE CORRUGATED STEEL 15-INCH REQ'D		
VR334	982+69.63 VR	109.5' LT	105.9	VR338	--	--	9-F00T	J	999.03	997.78	14.24	66	983.54	983.33	106	0.20%	OFFSET CASTING, PIPE TIES REQ'D	YES	
VR334.1	982+69.20 VR	103.6' LT	6.0	VR334	--	--	--	--	--	-	-	30	989.17	989.14	6	0.50%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR334.2	982+84.69 VR	89.0' LT	25.5	VR334	MEDIAN 1 GRATE	MS	--	--	999.21	999.21	4.21	15	995.00	994.50	25	2.00%			
VR338	981+63.76 VR	106.8' LT	72.5	VR340	--	--	9-F00T	J	999.54	998.29	14.96	66	983.33	983.19	73	0.19%		YES	
VR338.1	981+65.11 VR	101.0' LT	6.0	VR338	--	--	--	--	--	-	-	15	992.32	992.29	6	0.50%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR340	980+91.26 VR	108.7' LT	94.7	VR340.1	--	--	9-F00T	J	1000.18	998.93	15.74	66	983.19	983.00	95	0.20%		YES	
VR340.1	980+38.50 VR	197.4' LT	-	ENDWALL	--	--	--	--	--	-	-	-	983.00	--	-	-	APRON ENDWALL FOR CPRC 66-INCH REQ'D		
VR340.2	980+90.11 VR	127.3' LT	18.6	VR340	2x3-FT	H	--	--	999.83	999.00	2.72	12	996.28	996.10	19	0.95%	CULVERT PIPE CONCRETE COLLAR REQ'D		1
VR340.3	980+91.07 VR	93.4' LT	15.3	VR340	--	--	--	--	--	-	-	12	997.40	997.20	15	1.33%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR342.2	978+59.38 VR	195.8' LT	-	ENDWALL	--	--	--	--	--	-	-	12	983.00	--	-	-	APRON ENDWALL FOR CPRC 12-INCH REQ'D		
VR342.3	978+54.79 VR	135.7' LT	54.2	VR342.2	--	--	--	--	--	-	-	12	988.91	983.00	54	10.94%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR344	977+98.96 VR	181.5' LT	96.9	VR346	--	--	8-F00T	J	994.00	992.75	9.81	60	982.94	982.75	97	0.20%			
VR344.1	978+17.69 VR	208.3' LT	24.7	VR344	--	--	--	--	--	-	-	60	983.00	982.94	25	0.24%	APRON ENDWALLS FOR CPRC 60-INCH REQ'D		
VR346	977+35.84 VR	109.1' LT	15.5	VR346.1	--	--	8-F00T	J	1001.60	1000.35	17.60	60	982.75	982.72	15	0.20%	OFFSET CASTING	YES	
VR346.1	977+20.64 VR	107.7' LT	11.0	VR346.5	--	--	--	J	1001.81	1000.56	-	72	982.72	982.69	11	0.27%	MANHOLES VR346.1 REQ'D	YES	
VR346.2	977+21.19 VR	118.8' LT	11.1	VR346.1	--	--	--	--	--	-	-	48	982.75	982.72	11	0.27%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR346.5	977+22.00 VR	96.8' LT	-	EXISTING	--	--	--	--	--	-	-	72	982.69	--	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR348	979+65.16 VR	399.1' LT	30.4	VR348.2	--	--	5-F00T	J	995.00	993.75	10.55	30	983.20	983.00	30	0.67%			
VR348.1	979+70.92 VR	404.3' LT	8.0	VR348	--	--	--	--	--	-	-	30	990.24	990.20	8	0.50%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR348.2	979+56.79 VR	363.6' LT	-	ENDWALL	--	--	--	--	--	-	-	30	983.00	--	-	-	APRON ENDWALLS FOR CPRC 30-INCH REQ'D		
VR348.3	980+79.02 VR	307.8' LT	6.0	VR348.4	2x3-FT	H	--	--	999.00	998.17	4.17	12	994.00	993.90	6	1.67%			
VR348.4	980+83.00 VR	303.3' LT	48.8	VR348.5	2x3-FT	H	--	--	998.97	998.14	12.14	12	986.00	983.00	49	6.12%			
VR348.5	980+45.00 VR	263.6' LT	-	ENDWALL	--	--	--	--	--	-	-	12	983.00	--	-	-	APRON ENDWALLS FOR CPRC 12-INCH REQ'D		
VR350.2	983+64.31 VR	104.7' RT	294.0	VR353	--	C	8-F00T	--	998.50	997.25	9.15	42	988.10	984.65	294	1.17%		YES	
VR353	986+58.05 VR	93.4' RT	195.9	VR332.2	--	--	9-F00T	J	1001.76	1000.51	15.86	48	984.65	984.27	196	0.19%	TRENCHLESS STORM SEWER CONSTRUCTION, 48-INCH REQ'D	YES	
VR353.1	986+57.32 VR	99.4' RT	6.0	VR353	--	--	--	--	-	-	-	12	993.93	993.88	6	0.83%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR354	987+15.80 VR	93.0' RT	58.1	VR353	--	C	8-F00T	--	997.50	996.25	11.49	48	984.76	984.65	58	0.19%	OFFSET CASTING	YES	
VR354.1	987+16.63 VR	98.9' RT	6.0	VR354	--	--	--	--	-	-	-	30	992.04	992.00	6	0.67%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR356.2				VR5								15	993.47	992.94	49	1.08%			
VR356.6				VR357.2								18	991.90	991.15	7	10.71%			
VR356.9	989+98.07 VR	76.4' RT	148.6	VR408.9	--	--	7-F00T	J	999.11	997.86	12.54	48	985.32	985.03	149	0.19%		YES	
VR357.1	989+97.82 VR	82.4' RT	6.0	VR356.9	--	--	--	--	-	-	-	12	990.98	990.90	6	1.33%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR357.2	989+98.32 VR	70.4' RT	6.0	VR356.9	--	--	--	--	-	-	-	18	991.15	990.50	6	10.83%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR358	992+65.58 VR	90.0' RT	187.3	VR809	--	C	7-F00T	--	998.50	997.25	11.41	48	985.84	985.48	187	0.19%		YES	
VR358.1	994+05.11 VR	80.1' LT	42.9	VR802	--	C	5-F00T	--	997.71	996.46	6.09	36	990.37	990.24	43	0.30%		YES	

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS	SEE STORM SEWER ADJUSTMENT TABLE	PIPE CUTOUTS FOR UNDERDRAIN
VR358.2	994+15.32 VR	80.0' LT	10.1	VR358.1	--	C	5-FOOT	--	997.70	996.45	6.05	36	990.40	990.37	10	0.30%		YES	
VR358.4				VR8								18	992.61	992.08	49	1.08%			
VR358.6				VR19								12	991.50	991.04	72	0.64%			
VR358.8				VR18								12	991.10	991.05	5	1.00%			
VR358.9	994+03.82 VR	98.8' RT	140.5	VR358	--	C	8-FOOT	--	997.57	996.32	10.21	48	986.11	985.84	140	0.19%		YES	
VR359.1	992+70.29 VR	93.6' RT	6.0	VR358	--	--	--	--	-	-	-	12	993.78	993.75	6	0.50%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR359.2	992+65.44 VR	96.0' RT	6.0	VR358	--	--	--	--	-	-	-	24	994.16	994.13	6	0.50%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR398	973+88.04 VR	112.4' RT	6.0	VR12	--	--	5-FOOT	J	1012.74	1011.49	8.99	24	1002.50	1002.47	6	0.50%		YES	
VR398.2	973+63.23 VR	203.7' RT	48.2	VR398.3	--	--	3-FOOT	J	1008.48	1007.23	3.98	12	1003.25	1002.90	48	0.73%		YES	
VR398.3	974+08.66 VR	187.7' RT	78.0	VR398	--	--	4-FOOT	J	1009.09	1007.84	4.94	12	1002.90	1002.50	78	0.51%		YES	
VR398.4	974+14.49 VR	189.1' RT	6.0	VR398.3	--	--	3-FOOT	J	1008.91	1007.66	4.66	12	1003.00	1002.90	6	1.67%		YES	
VR4	987+90.71 VR	91.7' LT	13.5	VR40	--	--	--	--	--	-	-	24	990.15	990.10	14	0.36%	STORM SEWER TAP REQ'D		
VR40	987+78.43 VR	97.7' LT	9.1	VR808	--	--	--	--	--	-	-	24	990.10	990.00	9	1.11%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR407	988+53.00 VR	90.7' RT	6.0	VR408.9	--	--	--	--	--	-	-	15	994.05	994.00	6	0.83%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR408.9	988+51.49 VR	84.9' RT	137.8	VR354	--	--	7-FOOT	J	991.31	990.06	5.03	48	985.03	984.76	138	0.20%	TRENCHLESS STORM SEWER CONSTRUCTION, 48-INCH REQ'D	YES	
VR5	989+97.43 VR	64.8' LT	6.0	VR580	--	--	--	--	--	-	-	15	992.94	992.88	6	1.00%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR580	989+97.27 VR	70.8' LT	93.6	VR580.4	--	C	4-FOOT	--	998.29	997.04	4.16	15	992.88	992.30	94	0.62%		YES	
VR580.1	989+06.82 VR	108.1' LT	49.7	VR806	--	--	7-FOOT	J	997.85	996.60	7.76	48	988.84	988.69	50	0.30%		YES	
VR580.2	988+60.04 VR	119.7' LT	9.4	VR806	--	--	--	--	--	-	-	12	993.94	993.89	9	0.56%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR580.3	989+05.88 VR	93.4' LT	14.7	VR580.1	--	H-S	4-FOOT	--	997.13	996.30	4.55	18	991.75	991.50	15	1.67%		YES	
VR580.4	989+02.70 VR	71.3' LT	22.3	VR580.3	--	C	4-FOOT	--	1000.13	998.88	6.83	18	992.05	991.75	22	1.36%		YES	
VR580.5	990+12.81 VR	71.2' LT	15.4	VR580	--	C	3-FOOT	--	998.29	997.04	3.74	12	993.30	993.13	15	1.13%		YES	
VR585.3				VR21								15	993.40	993.04	62	0.58%			
VR585.4	997+50.29 VR	133.9' RT	35.9	VR585.5	--	--	7-FOOT	J	1000.32	999.07	10.32	48	988.75	988.50	36	0.69%		YES	
VR585.5	997+52.80 VR	98.1' RT	103.8	VR814	--	C	9-FOOT	--	1000.86	999.61	12.84	48	986.77	986.57	104	0.19%		YES	
VR6	991+49.61 VR	94.6' LT	6.0	VR805	--	--	--	--	--	-	-	48	989.69	989.61	6	1.33%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR7	993+24.17 VR	85.4' LT	6.0	VR803	--	--	--	--	--	-	-	15	992.12	992.09	6	0.50%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR8	994+15.32 VR	74.0' LT	6.0	VR358.2	--	--	--	--	--	-	-	12	992.08	992.02	6	1.00%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR801	994+96.71 VR	80.9' LT	84.9	VR358.2	--	--	6-FOOT	J	998.97	997.72	7.05	36	990.67	990.40	85	0.32%	PROVIDE CUT OUT FOR FUTURE CONNECTION		
VR801.1	994+97.15 VR	75.0' LT	6.0	VR801	--	--	--	--	--	-	-	12	994.95	994.80	6	2.50%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR801.2	995+09.78 VR	78.0' LT	14.4	VR801	--	--	--	--	--	-	-	12	994.77	994.70	14	0.50%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR802	993+61.65 VR	79.9' LT	36.9	VR803	--	C	6-FOOT	--	997.92	996.67	6.43	36	990.24	990.13	37	0.30%		YES	
VR802.1	993+61.95 VR	85.9' LT	6.0	VR802	--	--	--	--	--	-	-	15	994.30	994.10	6	3.33%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR803	993+24.34 VR	79.4' LT	53.3	VR804	--	--	6-FOOT	J	998.62	997.37	7.24	36	990.13	989.97	53	0.30%		YES	
VR804	992+70.44 VR	78.0' LT	71.7	VR804.2	--	C	9-FOOT	--	998.57	997.32	7.35	36	989.97	989.76	72	0.29%		YES	
VR804.1	992+70.16 VR	68.7' LT	9.3	VR804	--	--	--	--	--	-	-	34X53	992.30	992.27	9	0.33%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR804.2	992+00.82 VR	98.6' LT	51.5	VR805	--	--	6-FOOT	J	998.37	997.12	7.36	36	989.76	989.61	52	0.29%		YES	
VR805	991+49.51 VR	88.6' LT	239.8	VR580.1	--	C	9-FOOT	--	999.31	998.06	8.45	48	989.61	988.84	240	0.32%		YES	
VR805.1	991+40.99 VR	80.5' LT	11.7	VR805	--	--	--	--	--	-	-	18	993.34	993.28	12	0.50%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR806	988+56.39 VR	111.0' LT	77.8	VR808	--	C	7-FOOT	--	997.68	996.43	7.74	48	988.69	988.46	78	0.29%		YES	
VR808	987+77.44 VR	106.8' LT	130.0	VR332.2	--	--	9-FOOT	J	997.57	996.32	7.86	48	988.46	988.07	130	0.30%		YES	
VR808.1	987+76.08 VR	119.5' LT	12.8	VR808	--	--	--	--	--	-	-	24x38	990.21	990.14	13	0.54%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR809	990+81.68 VR	68.9' RT	84.9	VR356.9	--	--	7-FOOT	J	998.70	997.45	11.97	48	985.48	985.32	85	0.19%		YES	
VR809.1	990+80.54 VR	73.6' RT	4.8	VR809	--	--	--	--	--	-	-	12	994.85	994.60	5	5.00%	CULVERT PIPE CONCRETE COLLAR REQ'D		
VR813	994+05.24 VR	89.2' RT	9.7	VR358.9	--	--	7-FOOT	J	999.45	998.20	5.21	30	992.99	992.70	10	2.90%			
VR814	996+50.13 VR	96.9' RT	235.4	VR358.9	--	--	7-FOOT	J	999.70	998.45	11.88	48	986.57	986.11	235	0.20%		YES	
VR815				VR22								18	986.82	986.78	19	0.21%			
VR90	983+58.32 VR	104.8' RT	6.0	VR350.2	--	--	--	--	--	-	-	36	988.13	988.10	6	0.50%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
VR91	983+66.12 VR	110.4' RT	6.0	VR350.2	--	--	--	--	--	-	-	30	990.54	990.50	6	0.67%	COVERING STORM SEWER AND LOCATING STORM SEWER REQ'D		
WN301				ML300.2								29X45	991.65	991.41	82	0.29%			
WN317				VR7								15	992.20	992.12	16	0.50%			
WN320				VR6								48	990.28	989.69	46	1.28%			
WN332.4				VR332.6								36	987.31	986.79	73	0.71%			
WP100	64+67.23 WP	11.0' RT	232.4	WP103	--	--	7-FOOT	J	1014.38	1013.13	7.63	48	1005.50	999.00	232	2.80%			
WP100.1	64+68.44 WP	31.0' RT	20.0	WP100	MEDIAN 2 GRATE	MS	--	--	1010.98	1010.98	3.48	24	1007.50	1007.30	20	1.00%	REQUIRES 2 MS GRATES		

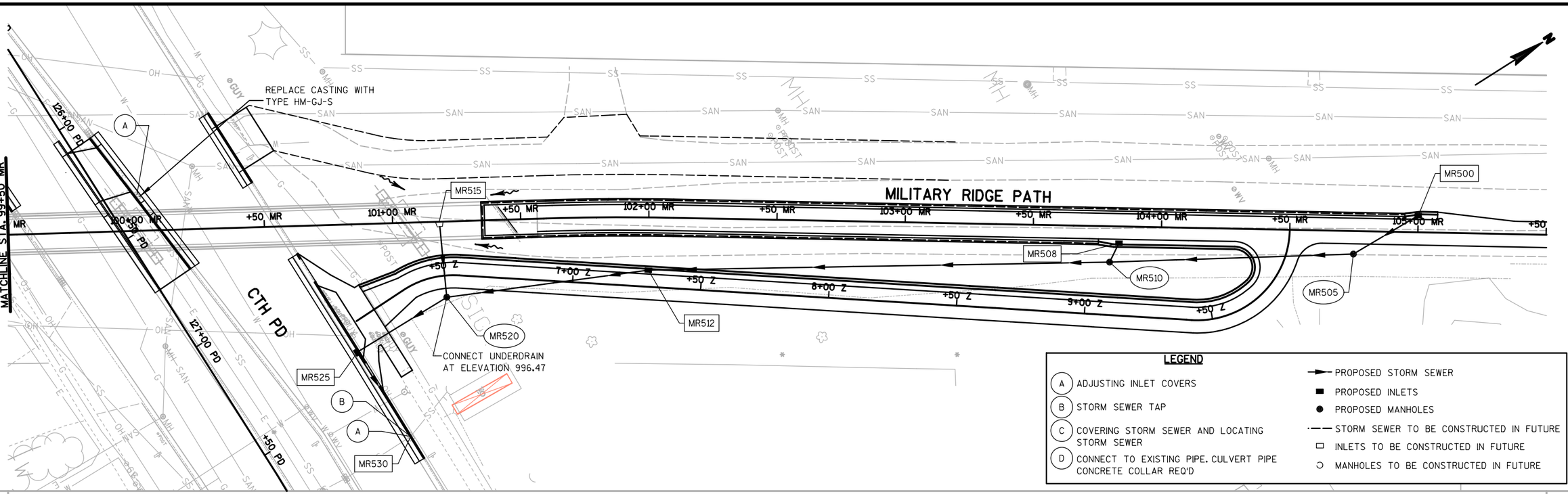
STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS	SEE STORM SEWER ADJUSTMENT TABLE	PIPE CUTOUTS FOR UNDERDRAIN
WP100.2	64+60.92 WP	11.2' RT	6.0	WP100	--	--	--	--	--	-	-	48	--	1007.30	6	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
WP100.3	64+66.76 WP	3.2' LT	14.3	WP100	MEDIAN 1 GRATE	MS	--	--	1014.49	1014.49	3.90	12	1010.59	1010.34	14	1.79%			
WP103	67+00.00 WP	3.5' RT	215.9	WP105	--	--	7-FOOT	J	1006.17	1004.92	5.92	48	999.00	995.03	216	1.84%			
WP103.1	67+00.00 WP	23.8' RT	20.3	WP103	2x3-FT	HM	--	--	1006.59	1005.76	3.76	12	1002.00	1001.50	20	2.50%			1
WP105	69+15.70 WP	13.0' RT	35.3	WP107	--	--	8-FOOT	J	1003.80	1002.55	8.02	54	994.53	994.35	35	0.51%			
WP105.1	69+14.89 WP	24.0' RT	11.0	WP105	--	--	--	--	--	-	-	12	1002.30	1000.88	11	12.91%	CULVERT PIPE CONCRETE COLLAR REQ'D		
WP107	69+50.95 WP	12.8' RT	124.3	WP110	--	--	8-FOOT	J	1003.19	1001.94	7.59	54	994.35	993.73	124	0.50%			
WP107.1	69+51.02 WP	27.9' RT	15.0	WP107	2x3-FT	HM	--	--	1004.96	1004.13	4.68	15	999.45	999.00	15	3.00%			1
WP107.2	69+57.02 WP	28.0' RT	6.0	WP107.1	2x3-FT	HM	--	--	1004.96	1004.13	4.63	12	999.50	999.45	6	0.83%			1
WP110	70+75.25 WP	12.3' RT	51.0	WP115	--	--	8-FOOT	J	1002.05	1000.80	7.07	54	993.73	993.47	51	0.51%			
WP110.1	70+75.01 WP	4.0' LT	16.3	WP110	MEDIAN 1 GRATE	MS	--	--	1001.04	1001.04	2.70	18	998.34	998.00	16	2.13%			
WP115	71+24.76 WP	11.8' RT	18.0	WP120	--	--	8-FOOT	J	1002.26	1001.01	8.04	60	992.97	992.88	18	0.50%			
WP115.1	71+23.21 WP	0.9' LT	12.8	WP115	--	--	--	--	--	-	-	24	996.30	995.86	13	3.38%	CULVERT PIPE CONCRETE COLLAR REQ'D		
WP120	71+41.86 WP	11.9' RT	-	EXISTING	--	--	--	--	--	-	-	60	992.88	--	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
WP200	76+14.10 WP	25.1' RT	38.5	WP201	MEDIAN 1 GRATE	MS	--	--	993.74	993.74	2.39	15	991.35	991.15	39	0.51%			
WP201	76+47.81 WP	2.5' LT	-	-	--	--	--	--	--	-	-	15	991.15	--	-	-	CULVERT PIPE CONCRETE COLLAR REQ'D		
WP202	75+80.00 WP	49.4' RT	30.7	WP200	2x3-FT	HM	--	--	996.66	995.83	4.33	12	991.50	991.35	31	0.48%			1
WP203	73+60.00 WP	49.5' RT	11.5	WP203.1	2x3-FT	HM	--	--	1002.17	1001.34	2.24	12	999.10	999.00	11	0.91%			1
WP203.1	73+60.00 WP	32.0' RT	-	-	--	--	--	--	--	-	-	12	999.00	--	-	-	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE REQ'D		
WS336.1				VR334.1								30	989.28	989.17	23	0.48%			
WW640.1	53+25.03 WW	14.8' LT	7.2	WW640.2	2x3-FT	H-S	--	--	1008.27	1007.44	2.94	12	1004.50	1004.40	7	1.43%			1
WW640.2	53+32.25 WW	15.0' LT	29.9	WW640.4	2x3-FT	H-S	--	--	1008.27	1007.44	3.04	12	1004.40	1002.50	30	6.33%			
WW640.3	53+25.01 WW	14.8' RT	7.2	WW640.4	--	H-S	4-FOOT	--	1008.53	1007.70	5.99	18	1001.71	1001.67	7	0.57%			1
WW640.4	53+32.23 WW	14.9' RT	26.7	WW640.5	--	H-S	4-FOOT	--	1008.52	1007.69	6.02	18	1001.67	1001.50	27	0.63%			
WW640.5	53+50.00 WW	34.2' RT	134.2	ML636	MEDIAN 1 GRATE	MS	--	--	1007.19	1007.19	5.69	18	1001.50	1000.25	134	0.93%			
WW645	52+02.99 WW	17.2' RT	129.0	WW640.3	--	--	4-FOOT	J	1009.55	1008.30	5.80	18	1002.50	1001.71	129	0.61%			
WW645.1	52+05.84 WW	32.8' RT	16.0	WW645	MEDIAN 1 GRATE	MS	--		1007.50	1007.50	4.88	18	1002.62	1002.50	16	0.75%			
WW645.2	52+01.38 WW	34.6' RT	6.0	WW645.1	--	--	--	--	--	-	-	18	1003.15	1003.12	6	0.50%	CULVERT PIPE CONCRETE COLLAR REQ'D		
WW650	50+91.00 WW	0.0' RT	118.2	WW645	--	--	4-FOOT	J	1008.91	1007.66	3.66	18	1004.00	1003.50	118	0.42%			
WW650.1	50+85.00 WW	14.5' RT	6.0	WW650.2	2x3-FT	H-S	--	--	1008.23	1007.40	3.10	12	1004.30	1004.25	6	0.83%			
WW650.2	50+91.00 WW	14.5' RT	14.5	WW650	2x3-FT	H-S	--	--	1008.22	1007.39	3.14	12	1004.25	1004.00	14	1.79%			1
WW650.3	50+85.00 WW	14.5' LT	6.0	WW650.4	2x3-FT	H-S	--	--	1008.20	1007.37	3.07	12	1004.30	1004.25	6	0.83%			
WW650.4	50+91.00 WW	14.5' LT	14.5	WW650	2x3-FT	H-S	--	--	1008.23	1007.40	3.15	12	1004.25	1004.00	14	1.79%			1



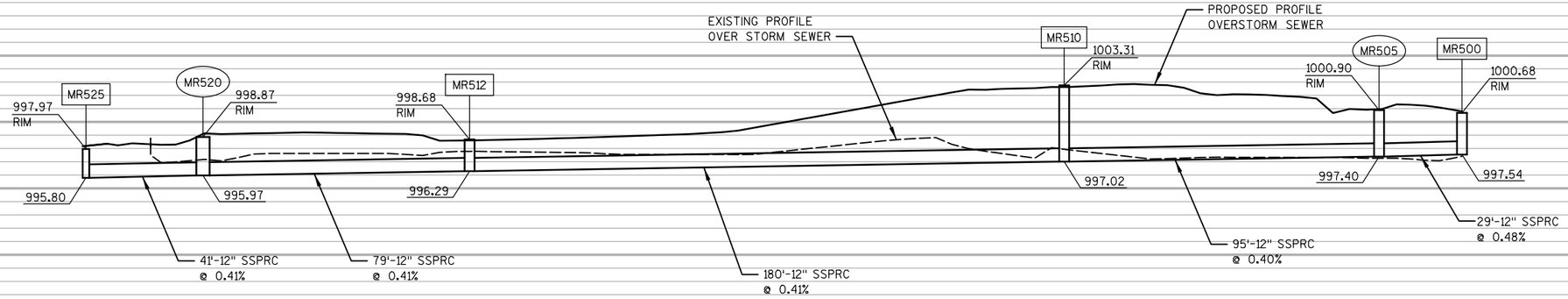
STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET COVER	COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS	PIPE CUTOUTS FOR UNDERDRAIN
MR900	99+35.88 MR	14.9' RT	8.9	MR905	--	--	--	--	-	-	--	29x45	993.98	993.95	9	0.33%	CULVERT PIPE CONCRETE COLLAR REQ'D	
MR905	99+27.00 MR	15.0' RT	38.6	MR915	--	--	9-FOOT	L	998.83	998.00	4.05	38x60	993.95	993.92	39	0.08%		
MR910	99+12.45 MR	18.2' RT	8.9	MR905	--	--	--	--	-	-	--	12	995.18	995.00	9	2.00%	APRON ENDWALLS FOR CPRC 12-INCH REQ'D	
MR915	99+04.91 MR	16.7' LT	257.0	MR925	--	--	8-FOOT	L	999.00	998.17	4.25	38x60	993.92	993.70	257	0.09%		
MR920	96+47.00 MR	6.5' LT	21.2	MR925	2x3-FT	HM	--	--	1004.93	1004.10	6.10	12	998.00	996.00	21	9.52%		
MR925	96+47.00 MR	27.7' LT	115.1	MR930	--	HM	8-FOOT	--	1000.88	1000.05	6.35	38x60	993.70	993.60	115	0.09%		1
MR930	95+20.63 MR	30.1' LT	-	-	--	--	--	--	-	-	--	38x60	993.60	-	-	-	APRON ENDWALLS FOR CPRC HORIZONTAL ELLIPTICAL 38X60-INCH REQ'D	
MR935	95+05.21 MR	29.1' LT	78.0	MR940	--	--	--	--	-	-	--	38x60	993.52	993.44	78	0.10%	APRON ENDWALLS FOR CPRC HORIZONTAL ELLIPTICAL 38X60-INCH REQ'D	
MR940	94+25.14 MR	20.8' RT	-	-	--	--	--	--	-	-	--	38x60	993.44	-	-	-	APRON ENDWALLS FOR CPRC HORIZONTAL ELLIPTICAL 38X60-INCH REQ'D	



PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	STORM SEWER - MILITARY RIDGE PATH	SHEET 282 E



STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET COVER	COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS	PIPE CUTOUTS FOR UNDERDRAIN
MR500	105+00.00 MR	6.5' LT	29.4	MR505	2x3-FT	HM	--	--	1000.68	999.85	2.31	12	997.54	997.40	29	0.48%		
MR505	104+75.00 MR	9.0' RT	95.1	MR510	--	--	3-FOOT	J	1000.90	999.65	2.25	12	997.40	997.02	95	0.40%		
MR508	103+83.50 MR	6.5' RT	8.3	MR510	2x3-FT	HM	--	--	1003.66	1002.83	5.73	12	997.10	997.02	8	1.00%		
MR510	103+80.00 MR	14.0' RT	179.9	MR512	--	--	4-FOOT	J	1002.76	1001.51	4.49	12	997.02	996.29	180	0.41%		
MR512	102+00.00 MR	20.6' RT	79.3	MR520	2x3-FT	HM	--	--	998.68	998.10	1.81	12	996.29	995.97	79	0.41%		
MR515	101+18.26 MR	0.1' LT	23.7	MR520	--	--	--	--	-	-	--	12	996.09	995.97	24	0.50%	APRON ENDWALLS FOR CPRC 12-INCH REQ'D	
MR520	101+20.27 MR	29.6' RT	41.0	MR525	--	--	4-FOOT	J	998.87	997.62	1.65	12	995.97	995.80	41	0.41%		1
MR525	100+84.65 MR	50.0' RT	38.9	MR530	2X3-FT	H	--	--	997.97	997.39	1.59	12	995.80	995.64	39	0.41%		
MR530	101+04.51 MR	83.4' RT	-	-	--	--	--	--	-	-	--	12	995.64	-	-	-	STORM SEWER TAP REQ'D	



PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	STORM SEWER - MILITARY RIDGE PATH	SHEET 283	E

2

BRITTA PARKWAY

ABANDONED WATER SERVICE

CHAIN LINK FENCE SALVAGED, 6-FT

EXISTING WATER SERVICE TO REMAIN

EXISTING WATER MAIN AND FIRE HYDRANT TO REMAIN (TYP.)

REMOVING CURB AND GUTTER REQ'D. CONCRETE CURB AND GUTTER, 30-INCH TYPE D

SAS BE-3, 4' DIA., COVER TYPE MAD
STA. 800+20.49/15.6' LT
REMOVE EXISTING SANITARY SEWER STRUCTURE 3766-009
SANITARY SEWER INTERNAL CHIMNEY SEAL
SANITARY SEWER TAP S, SE

PI = 800+00
Y = 468,465.11
X = 803,187.52

RECONNECT SANITARY LATERAL 4-INCH, SANITARY LATERAL ELECTRONIC MARKER

ABANDONED WATER SERVICE

ABANDON EXISTING SEWER - SLURRY

PROPOSED STRUCTURE N-13-3

STRUCTURES TO BE REMOVED PRIOR TO CONSTRUCTION

SAS BE-2, 4' DIA., COVER TYPE MAD
STA. 801+03.20/8.3' RT
SANITARY SEWER INTERNAL CHIMNEY SEAL

SANITARY SEWER PIPE, 10-INCH

SAS BE-4, 4' DIA., COVER TYPE MAD
STA. 801+22.41/25.8' RT
SANITARY SEWER INTERNAL CHIMNEY SEAL
SANITARY SEWER TAP NORTH

SANITARY SEWER PIPE, 10-INCH

APPROXIMATE LIMITS OF EXISTING CITY SEWER EASEMENT

W. BELTLINE FRONTAGE ROAD

RAMP

EB USH 12 / 14 (BELTLINE)

WB USH 12 / 14 (BELTLINE)

RAMP

EX SAS 3766-011

EX SAS 3766-012

EX SAS 3766-010

EX. 8" VP SAN.

800+00 +50 801+00 +50 802+00 +50 803+00 +50 804+00 +50

PI = 805+17.49
Y = 468,974.58
X = 803,278.27

N

APPROXIMATE LOCATION OF PROPOSED STUCTURE N-13-3. CONTRACTOR SHALL DESIGN WALL AND FOOTING TO ACCOMODATE BOTH EXISTING AND PROPOSED SEWER, AND COORDINATE WALL AND SEWER CONSTRUCTION ACCORDINGLY.

EXISTING PROFILE OVER PROPOSED SANITARY SEWER

EXISTING PROFILE OVER EXISTING SANITARY SEWER

SAS BE-3 RIM 1003.70
IE 8" S 991.45(TAP)
IE 8" SE 991.50(TAP)
IE 10" NE 991.35

SAS BE-2 RIM 1004.62
IE 10" SW 991.14
IE 8" NE 991.14

SAS BE-4 RIM 1004.66
IE 10" SW 991.08
IE 8" NE 991.08

EX. SAS 3766-010 RIM 1004.50
E 8" S 990.32
E 8" SW 990.96

EX. SAS 3766-011 RIM 1003.98
E 6" NW 990.51
E 8" NE 990.29
E 8" SE 990.44

EX. SAS 3766-012 RIM 1012.04
IE 8" SW 989.61
IE 8" NE 989.59

86 LF-10" @ 0.24%

26 LF-10" @ 0.24%

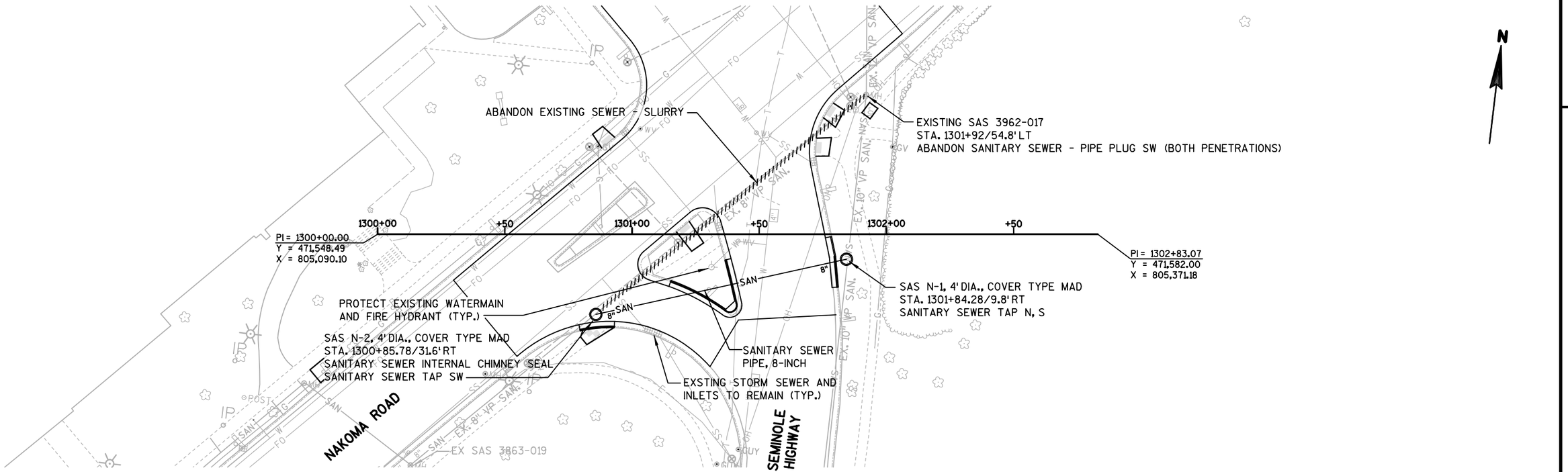
FLOW LINE OF PROPOSED SANITARY SEWER

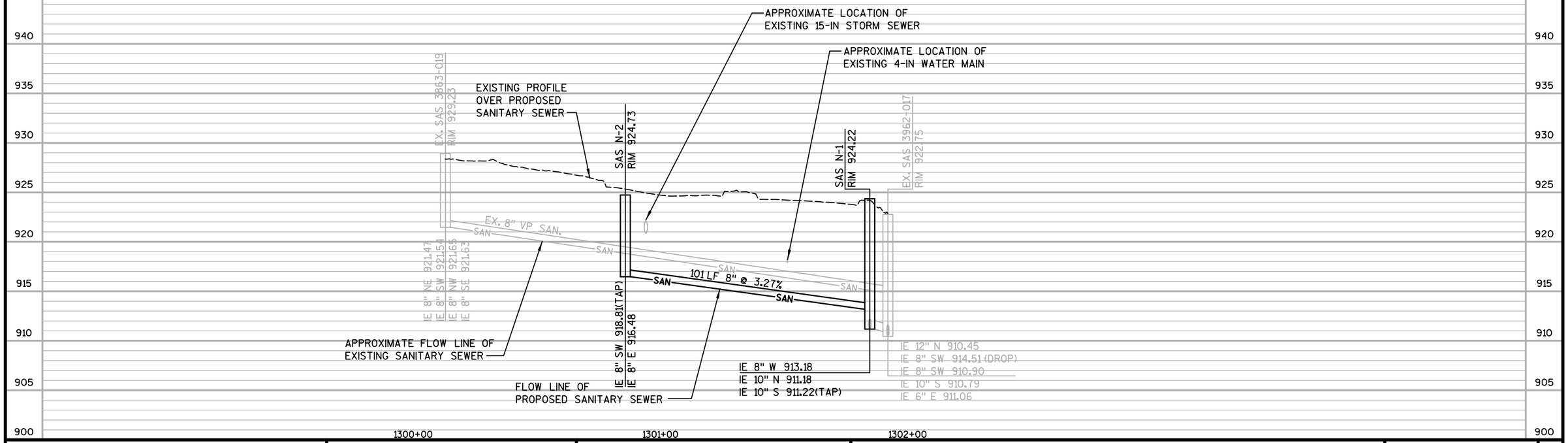
APPROXIMATE FLOW LINE OF EXISTING SANITARY SEWER

1025 1020 1015 1010 1005 1000 995 990 985 980

800+00 801+00 802+00 803+00 804+00

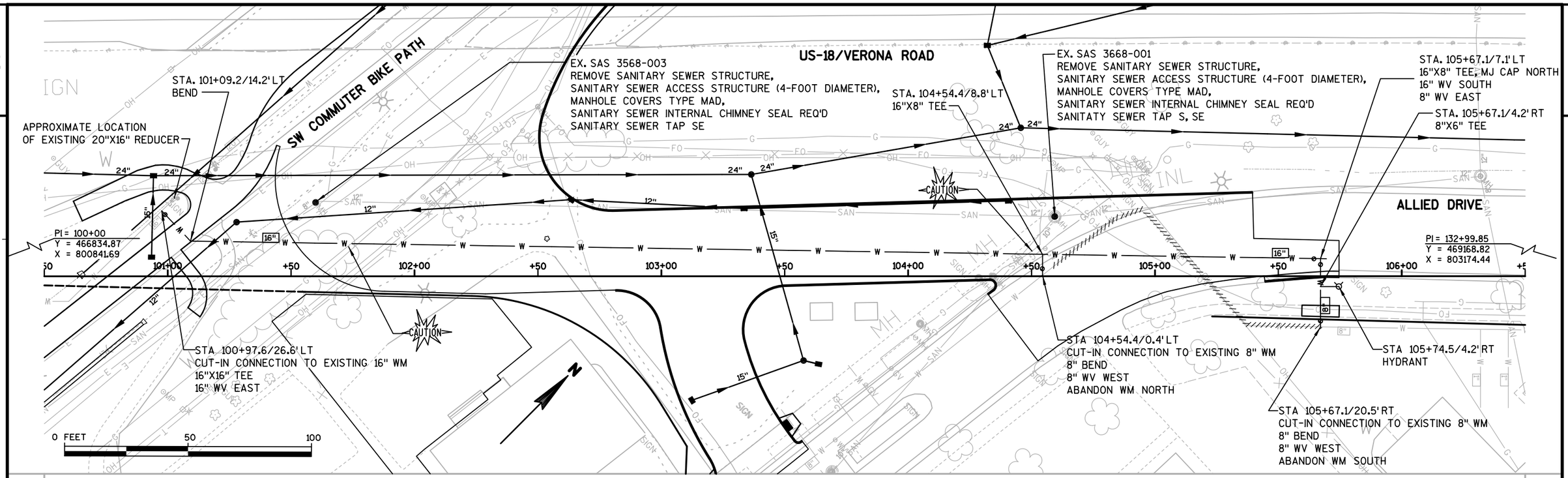
PROJECT NO: 1206-07-81	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - SANITARY SEWER	SHEET 284	E

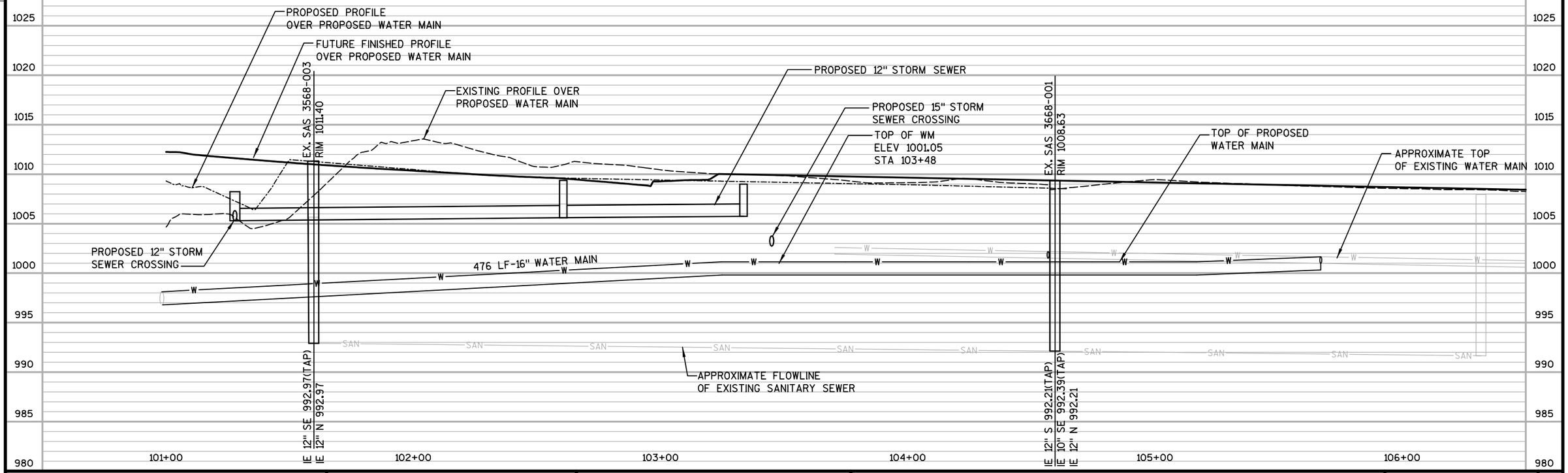




PROJECT NO: 1206-07-81	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - SANITARY SEWER	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023002_up.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41





PROJECT NO: 1206-07-81	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - WATER MAIN	SHEET 286 E

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

E0-8 RIGHT LANE MUST EXIT TO REMAIN

E0-6 WEST MILE XXX 0

0-6 WEST 12 MILE 256 .2 D10-5 21" X 60"

E0-9 EXIT SERVICES TO REMAIN

E0-10 ONLY TO REMAIN

N

WB USH 12/14 (BELTLINE)

MATCHLINE STA. 1010+00

1011+00 1012+00 1013+00 1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00 1021+00 1022+00 1023+00 1024+00

MATCHLINE STA. 1025+00

S-13-383

EB USH 12/14 (BELTLINE)

E0-7 EAST MILE XXX 0

0-7 EAST 12 MILE 256 .2 D10-5 21" X 60"

GRAND CANYON DRIVE

EXIT 255 GAMMON RD

REMOVING OVERHEAD SIGN SUPPORT, REQ'D

E0-3

E1-5P 132" x 30" EXIT 255

WEST 12 14 Gammon Rd EXIT ONLY

E7-2 360" x 144"

0-3

E0-4

0-4 WEST 12 MILE 256 0 D10-5 21" X 60"

S-13-384

WB USH 12/14 (BELTLINE)

MATCHLINE STA. 1010+00

995+00 996+00 997+00 998+00 999+00 1000+00 1001+00 1002+00 1003+00 1004+00 1005+00 1006+00 1007+00 1008+00 1009+00

E0-1 WEST MILE XXX 0

0-1 WEST 12 MILE 255 .8 D10-5 21" X 60"

EB USH 12/14 (BELTLINE)

E0-2 EAST MILE XXX 0

0-2 EAST 12 MILE 255 .8 D10-5 21" X 60"

E0-5 EAST MILE XXX 0

0-5 EAST 12 MILE 256 0 D10-5 21" X 60"

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023201_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

ODANA ROAD

E1-5P
132" x 30"

EXIT 255

WEST 12 14

Gammon Rd
1/2 MILE
EXIT ONLY

1-3

E7-2
360" x 144"

WEST 12
MILE 256 .4

1-1

D10-5
21" X 60"

EXIT 255
GAMMON RD

E1-8

REMOVING STRUCTURAL STEEL SUPPORTS, REQ'D

R3-4B
36" X 48"

1-7

EXIT SERVICES

TO REMAIN

E1-7

WEST 12
MILE 256 .6

1-5

D10-5
21" X 60"

S-13-395

WB USH 12/14 (BELTLINE)

MATCHLINE STA. 1025+00

1025+00 1026+00 1027+00 1028+00 1029+00 1030+00 1031+00 1032+00 1033+00 1034+00 1035+00 1036+00 1037+00 1038+00 1039+00 1040+00

MATCHLINE STA. 1040+00

EB USH 12/14 (BELTLINE)

EAST 12
MILE 256 .4

1-2

D10-5
21" X 60"

E1-3
E1-4

EAST MILE XXX 0

E1-1

WEST MILE XXX 0

E1-2

R3-4B
36" X 48"

1-6

EAST MILE XXX 0

E1-5

WEST MILE XXX 0

E1-6

EAST 12
MILE 256 .6

1-4

D10-5
21" X 60"

TOWER

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - USH 12/14 (BELTLINE)	SHEET 288	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023202_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

ODANA ROAD

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

E1-5P
132" x 30"

EXIT 255

WEST 12 14

Gammon Rd
1 MILE

EXIT ONLY

E7-2
360" x 144"

WEST 12 MILE 256 .8
D10-5
21" X 60"

WEST MILE XXX 0

WEST WEST 12 14

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1040+00

MATCHLINE STA. 1055+00

1041+00 1042+00 1043+00 1044+00 1045+00 1046+00 1047+00 1048+00 1049+00 1050+00 1051+00 1052+00 1053+00 1054+00

S-13-394

EAST MILE XXX 0

EAST 12 MILE 256 .8
D10-5
21" X 60"

TOWER

BLEACHERS

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023203_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

ODANA ROAD

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

SPEED LIMIT 55 — E3-1

EXIT 255 GAMMON RD 1 MILE — E3-2

REMOVING STRUCTURAL STEEL SIGN SUPPORTS, REQ'D

WEST 12 MILE 257 0 — 3-2 — D10-5 21" X 60"

SPEED LIMIT 55 — 3-3 — R2-1 48" X 60"

WEST 12 WEST 14 — 3-4 — J4-2 72" X 54"

MEDICAL CIRCLE

WB USH 12/14 (BELTLINE)

MATCHLINE STA. 1055+00

1056+00 1057+00 1058+00 1059+00 1060+00 1061+00 1062+00 1063+00 1064+00 1065+00 1066+00 1067+00 1068+00 1069+00 1070

MATCHLINE STA. 1070+00

EB USH 12/14 (BELTLINE)

EAST 12 MILE XXX 0 — E3-3

WEST 12 MILE XXX 0 — E3-4

EAST 12 MILE 257 0 — 3-1 — D10-5 21" X 60"

SCHROEDER COURT

RIPRAP BERM RIPRAP

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - USH 12/14 (BELTLINE)	SHEET 290	E

2

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

MEDICAL CIRCLE

WEST 12 14 — E4-4 — 4-4
PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED
R5-57
36" X 36"

WEST 12 14 — 4-3
J4-1
24" X 60"

WEST 12 MILE 257 .2 — 4-1
D10-5
21" X 60"

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED — E4-2

4-5
W4-1
36" X 36"

E4-3

4-6
I55-56
30" X 36"

E4-1

L RAMP
70+00 L
71+00 L
72+00 L
73+00 L
74+00 L
75+00 L
76+00 L

K RAMP
77+00 K
78+00 K
79+00 K
80+00 K
81+00 K
82+00 K
83+00 K
84+00 K
85

E4-5 E4-6 E4-7 E4-8
ONLY ONLY ONLY ONLY
TO REMAIN

E4-9
TO REMAIN

EXIT SERVICES — E4-10
TO REMAIN

EXIT 257
E4-11
TO REMAIN

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1070+00

1071+00 1072+00 1073+00 1074+00 1075+00 1076+00 1077+00 1078+00 1079+00 1080+00 1081+00 1082+00 1083+00 1084+00 1085

EAST 12 MILE XXX 0 — E4-12
WEST 12 MILE XXX 0 — E4-13
4-2

EAST 12 MILE 257 .2
D10-5
21" X 60"

EAST 12 MILE XXX 0 — E4-14
TO REMAIN

WEST 12 MILE XXX 0 — E4-15
TO REMAIN

E4-16
TO REMAIN

E4-17
TO REMAIN

LOW BRIDGE
1 MILE AHEAD
15'-2" MAX
E4-18

1119+00 RT
REMOVE AFTER THE
COMPLETION OF B-13-664

SCHROEDER ROAD

S WHITNEY WAY

AMUSEMENT PARK

CANOPY

GOLF GREEN

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - USH 12/14 (BELTLINE)	SHEET 291	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023205_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

Ⓐ PAID FOR UNDER THE "NOISE BARRIERS DOUBLE-SIDED SOUND ABSORPTIVE N-13-0002" ITEM.

Ⓑ MOVE INCLUDED UNDER "RELOCATING EXISTING TRAFFIC SIGNAL POLE"

COORDINATE THE REMOVAL OF THIS SPECIFIC SERVICE SIGN IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

MOVE TO 18' CLEAR DURING STORM SEWER CONSTRUCTION USING 4 POSTS

MOVE TO 30' CLEAR WHEN STORM SEWER IS COMPLETE USING 4 POSTS

REMOVING STRUCTURAL STEEL SIGN SUPPORTS AND CONCRETE BASES, REQ'D

DANBURY STREET

WARWICK WAY

WINSLOW LANE

MIDVALE BLVD
VERONA ROAD
NEXT RIGHT

E5-1 EXIT SERVICES REMOVED BY OTHERS

E5-2

55+00 WW 56+00 WW 57+00 WW 58+00 WW 59+00 WW 60+00 WW 62+00 WW 63+00 WW 64+00 WW

13+00 SH 12+00 SH 11+00 SH

D9-54 4240 WARWICK 18" X 24"

D9-54A 18" X 18"

5-5 5-6 5-7 5-8 5-9 5-10 5-11 5-12

STOP E5-26 TO REMAIN

STOP Ⓑ MOVE E5-18

E5-3 R-13-235

EXIT ONLY

RIPRAP

CLEARANCE 15'-1" MAX

E5-4

ONLY MOVE E5-17

BIKE LANE TO REMAIN E5-24

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

1161+00 1162+00 1163+00 1164+00 1165+00 1166+00 1167+00 1168+00 1169+00 1170+00 1171+00 1173+00

E5-22 E5-23 TRUCK ROUTE MOVE

E5-27 ONLY MOVE

E5-28 UW ARBORETUM MOVE

B-13-664

CLEARANCE 15'-2" MAX E5-9

STOP TO REMAIN E5-25

MATCHLINE STA. 175+00 SF

MATCHLINE STA. 75+00 SF

74+00 SF 73+00 SF 72+00 SF 71+ 70+00 SF 9+00 SH

WEST BELTLINE FRONTAGE ROAD

R-13-236

TRUCK ROUTE MOVE E5-19 E5-20

E5-10 GRANDMA MADDEN HASH HOUSE HARRIES MOVE

E5-5 EAST EAST EAST NORTH 12 14 18 151 TO REMAIN

E5-7 EAST MILE XXX 0 TO REMAIN

E5-8 WEST MILE XXX 0 TO REMAIN

E5-6 EXIT SERVICES TO REMAIN

STOP E5-21 TO REMAIN

BUS STOP MOVE E5-14

E5-15

DO NOT ENTER E5-13

DO NOT ENTER R5-1 30" X 30" 5-1

SPEED LIMIT 30 E5-16

5-3 W6-3 36" X 36"

E5-12

5-2 R4-7 24" X 30"

SEMINOLE HIGHWAY 4

5-4 SPEED LIMIT 30 R2-1 24" X 30"

EXIT 259 TODD DR ½ MILE TO REMAIN E5-11

DANBURY STREET

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - USH 12/14/18/151 (BELTLINE) AND SF & S LINES	SHEET 292 E

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

N

W4-1 48" X 48"

W3-3 36" X 36"

EXIT 258A TO REMAIN

EAST MILE XXX 0 TO REMAIN

WEST MILE XXX 0 TO REMAIN

EXIT 258A SEMINOLE HIGHWAY TO REMAIN

EXIT 258 18 151 DODGEVILLE 1/2 MILE EXIT ONLY TO REMAIN

12 14 BARABOO LACROSSE 2 LEFT LANES TO REMAIN

PEDESTRIANS BICYCLES NON MOTORIZED TRAFFIC MOTOR BICYCLES PROHIBITED R5-57 36" X 36"

W4-2R 36" X 36"

W3-1 36" X 36"

EDGEWOOD COLLEGE NEXT RIGHT TO REMAIN

SPEED LIMIT 30 R2-1 24" X 30"

STOP R1-1 36" X 36"

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

S RAMP

WEST BELTLINE FRONTAGE ROAD

MATCHLINE STA. 1175+00

MATCHLINE STA. 1190+00

MATCHLINE 75+00 SF

R4-7 24" X 30"

W12-1D 24" X 24"

R4-8 24" X 30"

R5-1 30" X 30"

R3-17 30" X 24"

Beltline East 84" X 36"

Frontage Road 84" X 36"

BELTLINE EAST FRONTAGE ROAD SUPPORT TO REMAIN

W1-6 48" X 24"

R7-1D 18" X 24"

E1-5P 120" X 30" EXIT 259 Todd Dr 1/3 MILE EXIT ONLY

E6-1 180" X 102"

THIS LANE ENDS W9-62 72" X 90"

EAST EAST EAST NORTH 12 14 18 151

EXIT 259 Todd Dr 1/4 MILE EXIT ONLY REMOVING OVERHEAD SIGN SUPPORT, REQ'D

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - USH 12/14/18/151 (BELTLINE) AND SF & S LINES	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023207_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

TODD DR 1/4
FISH HATCHERY RD 1 1/4
PARK ST 1 3/4

TO REMAIN

E7-1

E7-2

SEMINOLE HWY 1/4
VERONA RD-MIDVALE BLVD 1/2
WHITNEY WAY 1 1/2

TO REMAIN

LOW BRIDGE
2 MILES AHEAD
15'-1" MAX

E7-4

REMOVE AFTER THE
COMPLETION OF B-13-664

8440'
(WESTBOUND BELTLINE BETWEEN PARK
STREET AND FISH HATCHERY ROAD)

WB USH 12/14/18/151 (BELTLINE)

MATCHLINE STA. 1190+00

1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197+00 1198+00 1199+00 1200+00 1201+00 1202+00 1203+00 1204+00 1205

EB USH 12/14/18/151 (BELTLINE)

WEST BELTLINE FRONTAGE ROAD

E1-5P
120" x 30"
EXIT 259
Todd Dr
EXIT ONLY

7-3

E6-1
168" x 78"

EXIT 259
Todd Dr
EXIT ONLY

E7-3

SIGN BRIDGE CANTILEVERED
TO REMAIN

7-2

EAST EAST EAST NORTH
12 14 18 151

J4-4
144" X 54"

SPEED LIMIT
55

7-1

R2-1
48" X 60"

ALHAMBRA PLACE

THAMES TRAIL

KINGSTON DRIVE

GRANDVIEW BOULEVARD

FOOTBRIDGE

FOOTBRIDGE

WALLS

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - USH 12/14/18/151 (BELTLINE)	SHEET 294	E

2

2

** NOTE:

ALL SIGNS WITHIN THE LIMITS OF THE WESTBOUND USH 18/151 OVERLAY AND WIDENING (STA. 975+15 VR TO STA. 997+80 VR) SHALL REMAIN UNLESS NOTED OTHERWISE.

N

WEST VERONA ROAD FRONTAGE ROAD

FREEPORT ROAD

E35-1

MOVE

E35-2

NO ENGINE BRAKING EXCEPT IN EMERGENCY

MOVE

E35-3

VERONA 5
MT HOREB 16

MOVE

WB USH 18/151 (VERONA ROAD)

970+00 VR 971+00 VR 972+00 VR 973+00 VR 974+00 VR 975+00 VR 976+00 VR 977+00 VR 978+00 VR 979+00 VR 980+00 VR 981+00 VR 982+00 VR 983+00 VR 984+00 VR 985+00 VR

MATCHLINE STA. 985+00 VR

EB USH 18/151 (VERONA ROAD)

EAST VERONA ROAD FRONTAGE ROAD

ALLIED DRIVE

THURSTON LANE

RED ARROW TRAIL

SIGN

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - USH 18/151 (VERONA ROAD)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023237_ps_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

** NOTE:

ALL SIGNS WITHIN THE LIMITS OF THE WESTBOUND USH 18/151 OVERLAY AND WIDENING (STA. 975+15 VR TO STA. 997+80 VR) SHALL REMAIN UNLESS NOTED OTHERWISE.

N

WEST VERONA ROAD FRONTAGE ROAD

SUMMIT ROAD

CANOPY

SIGN

W11-2
30" X 30"
W16-7L
24" X 12"

36-1
36-2
36-3
36-4

W11-2
30" X 30"
W16-7L
24" X 12"

E36-1
SPEED LIMIT 40
MOVE

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

1140+00
1141+00
1142+00
1143+00

MATCHLINE STA. 985+00 VR

WB USH 18/151 (VERONA ROAD)

985+00 VR
986+00 VR
987+00 VR
988+00 VR
989+00 VR
990+00 VR
991+00 VR
992+00 VR
993+00 VR
994+00 VR
995+00 VR
996+00 VR
997+00 VR
998+00 VR
999+00 VR
1000+

EB USH 18/151 (VERONA ROAD)

EAST VERONA ROAD FRONTAGE ROAD

EAST 12 EAST 18
LOW BRIDGE AHEAD 2/3 MILE
15' 2" MAX

E36-2

REMOVE AFTER THE COMPLETION OF B-13-664

BRITTA PARKWAY

ATTICUS WAY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - USH 18/151	SHEET 296	E

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

2

2

N

DANBURY STREET

WHENONA DRIVE

WARWICK WAY

8-1 D11-1 24" X 18" BIKE ROUTE

8-2 M7-1R 12" X 9"

E8-1 BIKE ROUTE

E8-2

8-3

8-4 W1-1L 24" X 24" W13-1 18" X 18" 15 M.P.H.

8-5 D11-1 24" X 18" BIKE ROUTE

8-6 M7-1 12" X 9"

8-7 W1-6 36" X 18"

8-8 W1-6 36" X 18"

8-9

8-10 W1-1R 24" X 24" W13-1 18" X 18" 15 M.P.H.

8-11 W11-2 24" X 24"

8-12 W16-7L 24" X 12"

8-13 W11-2 24" X 24"

8-14 W16-7L 24" X 12"

8-15 W11-2 24" X 24"

8-16 W16-9P 24" X 8" AHEAD

E8-3

E8-4

E8-5

50+00 WW

51+00 WW

52+00 WW

53+00 WW

54+00 WW

55+00 WW

56+00 WW

+50 WW

N-13-2

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

1158+00

1159+00

1160+00

1161+00

+50

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - WARWICK WAY	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023209_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

NOTE: ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

N

THURSTON LANE

ALLIED DRIVE

CARLING DRIVEWAY

THURSTON LANE TEMP

FREEPORT CONNECTION TEMP

SW COMMUTER BIKE PATH TEMP

EAST VERONA ROAD FRONTAGE ROAD

EB USH 18/151 (VERONA ROAD)

WB USH 18/151 (VERONA ROAD)

MATCHLINE STA. 17+00FP

37-01 NO PARKING ANY TIME R7-1D 18" X 24"

37-02

37-03 W1-1R 36" X 36"

37-04 15 M.P.H. W13-1 18" X 18"

37-05 STOP R1-1 30" X 30"

37-06 STOP R1-1 30" X 30"

37-07 NO PARKING ANY TIME R7-1D 18" X 24"

37-08 W1-8 18" X 24"

37-09 W1-8 18" X 24"

37-10 W1-6 48" X 24"

37-11 W1-8 18" X 24"

37-12 W1-6 48" X 24"

37-13 W1-8 18" X 24"

37-14 W1-1L 36" X 36"

37-15 15 M.P.H. W13-1 18" X 18"

37-16 R4-7 24" X 30"

37-17 NO PARKING ANY TIME R7-1D 18" X 24"

37-18 W5-52R 12" X 36"

37-19 W5-52R 12" X 36"

37M-01 MOVE

37M-02

37M-03

37M-04

37M-05 MOVE

37M-06 MOVE

37M-07 MOVE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - FREEPORT CONNECTION	SHEET 298 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023213_PS (FREEPORT).DWG PLOT DATE : January 24, 2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 42

NOTE: ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

NO PARKING ANY TIME
R7-1D
18" X 24"
38-05

W1-2L
30" X 30"
15
M.P.H.
W13-1
18" X 18"
38-06
38-07

STOP
R1-1
30" X 30"
38-08

WEST VERONA ROAD FRONTAGE ROAD

SOUTHWEST COMMUTER BIKE PATH

SW COMMUTER BIKE PATH TEMP

FREEPORT CONNECTION TEMP

MATCHLINE STA. 17+00EF

15+00BI
16+00BI
18+00FP
19+00FP
20+00FP
21+00FP
21+94FP
93+00EE
94+00EE
95+00EE
96+00EE
97+00EE

NO PARKING ANY TIME
R7-1D
18" X 24"
38-04

R4-7
24" X 30"
38-01
38-02
38-03

W1-2R
30" X 30"
15
M.P.H.
W13-1
18" X 18"

38M-01
NO PARKING ANY TIME
MOVE

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

N

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - FREEPORT CONNECTION	SHEET 299 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PERMANENT SIGNING\023213_PS (FREEPORT).DWG PLOT DATE : January 24, 2013 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1" = 40'_XREF

NOTE: ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

* SIGN INSTALLED BY OTHERS

EAST BELTLINE FRONTAGE ROAD

39E-01

SPEED LIMIT 25

39E-02

39E-03 STOP

39E-04 NO PARKING ANY TIME

39E-05 NO PARKING ANY TIME

M METRO

39-01 *

39E-06 STOP

NIEMANN PLACE DRIVEWAY

10+00NP

12+00NP

12+26NP

BRITTA PARKWAY

18+00BP

19+00BP

20+00BP

21+00BP

22+0

39-02 * M METRO

39-03 NO PARKING ANY TIME

R7-1D
18" X 24"

16+00BP

17+00BP

BRITTA DRIVE

SIGN

MH

W

N

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - BRITTA PARKWAY	SHEET 300	E

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

E9-1

STOP AHEAD

92+00 PB

+50 PB

93+00 PB

+50 PB

94+00 PB

+50 PB

95+00 PB

+50 PB

96+00 PB

+50 PB

97+00 PB

+50 PB

98+00 PB

MATCHLINE STA. 98+00 PB

CTH PB

COUNTY PB
M1-5A
24" X 24"

9-2

COUNTY PB

E9-3

SPEED LIMIT 35
TO REMAIN

E9-6

E9-5

LEFT TURN LANE

E9-7

WRONG WAY
TO REMAIN

E9-2

STOP AHEAD

JCT
COUNTY M
TO REMAIN

E9-4

IP 6"POST

9-1

W3-3
36" X 36"

2

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH PB AT CTH M	SHEET 301	E

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

N

MATCHLNE STA. 98+00 MPB

MATCHLNE STA. 101+00 MPB

MATCHLNE STA. 98+00 PB

MATCHLNE STA. 103+50 PB

CTH M

CTH PB

99+00 MPB

+50 MPB

100+00 MPB

101+00 MPB

99+00 PB

100+00 PB

101+00 PB

102+00 PB

103+00 PB

+50 PB

10-1 R5-1 30" X 30"

10-2 R1-1F 30" X 30"

10-3 M J13-1 24" X 45"

10-4 R4-7 24" X 30"

10-5 R1-1F 30" X 30"

10-6 R1-1F 30" X 30"

10-7 R4-7 24" X 30"

10-8 R1-1F 30" X 30"

10-9 M J13-1 24" X 45"

10-10 R5-1 30" X 30"

10-11 PB M1-5A 24" X 24"

10-12 M M1-5A 24" X 24"

10-13 R1-2 36" X 31"

10-14 R1-2 36" X 31"

10-15 PB J13-1 24" X 45"

10-16 PB J13-1 24" X 45"

E10-1 STOP ALL WAY

E10-2 M

E10-3 DO NOT ENTER

E10-4 STOP

E10-5

E10-6 PB

E10-7 STOP

E10-8 STOP REMOVE

E10-9 PB

E10-10

E10-11 STOP ALL WAY

E10-12 DO NOT ENTER

E10-13 STOP

E10-14 M

E10-15 PB TO REMAIN

E10-16 LEFT TURN LANE

E10-17 STOP

E10-18 STOP

E10-19 JCT 18 JCT 151 END PB TO REMAIN

E10-20 WRONG WAY TO REMAIN

E10-21 BELLEVILLE NEW GLARUS OREGON TO REMAIN

E10-22 BELLEVILLE NEW GLARUS VERONA TO REMAIN

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH PB AT CTH M	SHEET 302	E

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

E11-6
SPEED LIMIT 35
TO REMAIN

E11-1
STOP AHEAD

11-1
W3-3
36" X 36"

PAOLI
OREGON
VERONA
E11-5
TO REMAIN

E11-2
STOP AHEAD

MATCHLINE STA. 103+50 PB

PB
104+00 PB
+50 PB
105+00 PB
+50 PB
106+00 PB
+50 PB
107+00 PB

CTH PB

11-2
BEGIN LEFT TURN LANE
R3-20L
24" X 36"

E11-3
SPEED LIMIT 35
TO REMAIN

E11-4
WEST 18
SOUTH 151
EAST 18
NORTH 151
TO REMAIN

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH PB AT CTH M	SHEET 303	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023212_ps_pb.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

CTH M

00 MPB | +50 MPB | 93+00 MPB | +50 MPB | 94+00 MPB | +50 MPB | 95+00 MPB | +50 MPB | 96+00 MPB | +50 MPB | 97+00 MPB | +50 MPB | 98+00

MATCHLINE STA. 98+00 MPB

STOP AHEAD

E12-1

90+00 MPB RT

12-1

W3-3
36" X 36"

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH M AT CTH PB	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023213_ps_mpb.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

W3-3
36" X 36"
13-3

SPEED LIMIT 45
R2-1
24" X 30"
13-4

W3-5
36" X 36"
13-5

820'

500'

MATCHLNE STA. 101+00 MPB

MPB | +50 MPB | 102+00 MPB | +50 MPB | 103+00 MPB | +50 MPB | 104+00 MPB | +50 MPB | CTH M | 105+00 MPB | +50 MPB | 106+00 MPB | +50 MPB | 107+0

820'

SPEED LIMIT 55
R2-1
24" X 30"
13-2

13-1
COUNTY M
M1-5A
24" X 24"

E13-1
COUNTY M

STOP AHEAD
E13-2
110+50 LT MPB

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH M AT CTH PB	SHEET 305	E

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

14-1

SPEED LIMIT 55

R2-1
24" X 30"

INSTALLED 1/4-MILE AFTER
INTERSECTION OF CTH M
AND FISH HATCHERY RD

TO REMAIN

E14-2

87+00 MFH | +50 MFH | 88+00 MFH | +50 MFH | 89+00 MFH | +50 MFH | 90+00 MFH | +50 MFH | 91+00

CTH M

MATCHLNE STA. 91+00 MFH

500'

14-2

SPEED LIMIT 45

R2-1
24" X 30"

INSTALLED 1/4-MILE PRIOR
TO INTERSECTION OF CTH M
AND FISH HATCHERY RD

14-3

SPEED LIMIT 45

W3-5
36" X 36"

TO REMAIN

E14-1

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH M AT FISH HATCHERY	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023215_ps_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

MATCHLINE STA. 91+00 MFH

MFH +50 MFH 92+00 MFH +50 MFH 93+00 MFH +50 MFH 94+00 MFH +50 MFH 95+00 MFH +50 MFH 96+00 MFH +50 MFH 97+00 MFH

MATCHLINE STA. 97+00 MFH

CTH M

E15-1

15-1

155-56
30" X 36"

E15-2

SPONSOR
UW ENVIRONMENTAL STUDIES CLUB

SIGN

JCT
COUNTY
D

TO REMAIN
E15-3

POST GUY OH T G

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH M AT FISH HATCHERY	SHEET 307	E

2

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

N

MATCHLINE STA. 97+00 MFH

MATCHLINE STA. 103+00 MFH

FISH HATCHERY ROAD (CTH D)

MATCHLINE STA. 101+50 FHM

MATCHLINE STA. 99+00 FHM

CTH M

98+00 MFH · 99+00 MFH · 100+00 MFH · 101+00 MFH · 102+00 MFH · 103+0 MFH · +50 MFH · +50 FHM · 101+00 FHM · 100+00 FHM

E16-1 · E16-2 · E16-3 · E16-4 · E16-5 · E16-6 · E16-7 · E16-8 · E16-9 · E16-10 · E16-11 · E16-12 · E16-13 · E16-14 · E16-15 · E16-16 · E16-17

16-1 · 16-2 · 16-3 · 16-4 · 16-5 · 16-6 · 16-7 · 16-8 · 16-9 · 16-10 · 16-11 · 16-12 · 16-13 · 16-14 · 16-15 · 16-16 · 16-17 · 16-18 · 16-19 · 16-20 · 16-21 · 16-22 · 16-23

M1-5A 24" X 24"

J13-1 24" X 45"

R1-1 36" X 36" R1-3P 24" X 9"

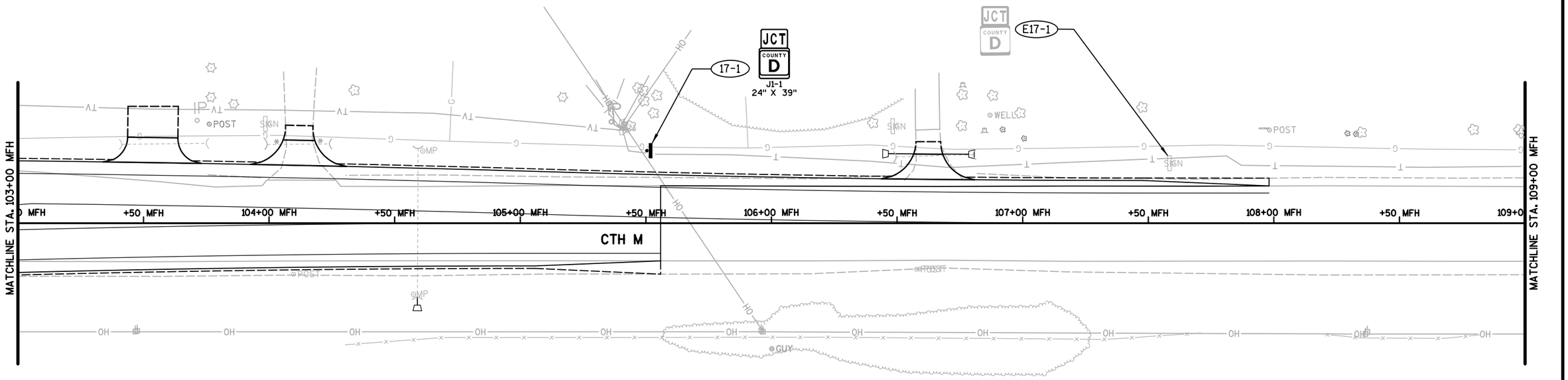
Co Hwy M Fish Hatchery Rd MOVE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH M AT FISH HATCHERY	SHEET 308	E

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH M AT FISH HATCHERY	SHEET 309	E

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

SPEED LIMIT 45
R2-1
24" X 30"
18-1

SPEED LIMIT 45
W3-5
36" X 36"
18-2

500'

TO REMAIN
E18-2

MATCHLINE STA. 109+00 MFH

0 MFH | +50 MFH | 110+00 MFH | +50 MFH | 111+00 MFH | +50 MFH | 112+00 MFH | +50 MFH | 113+00 MFH

CTH M

SPEED LIMIT 55
R2-1
24" X 30"
18-3

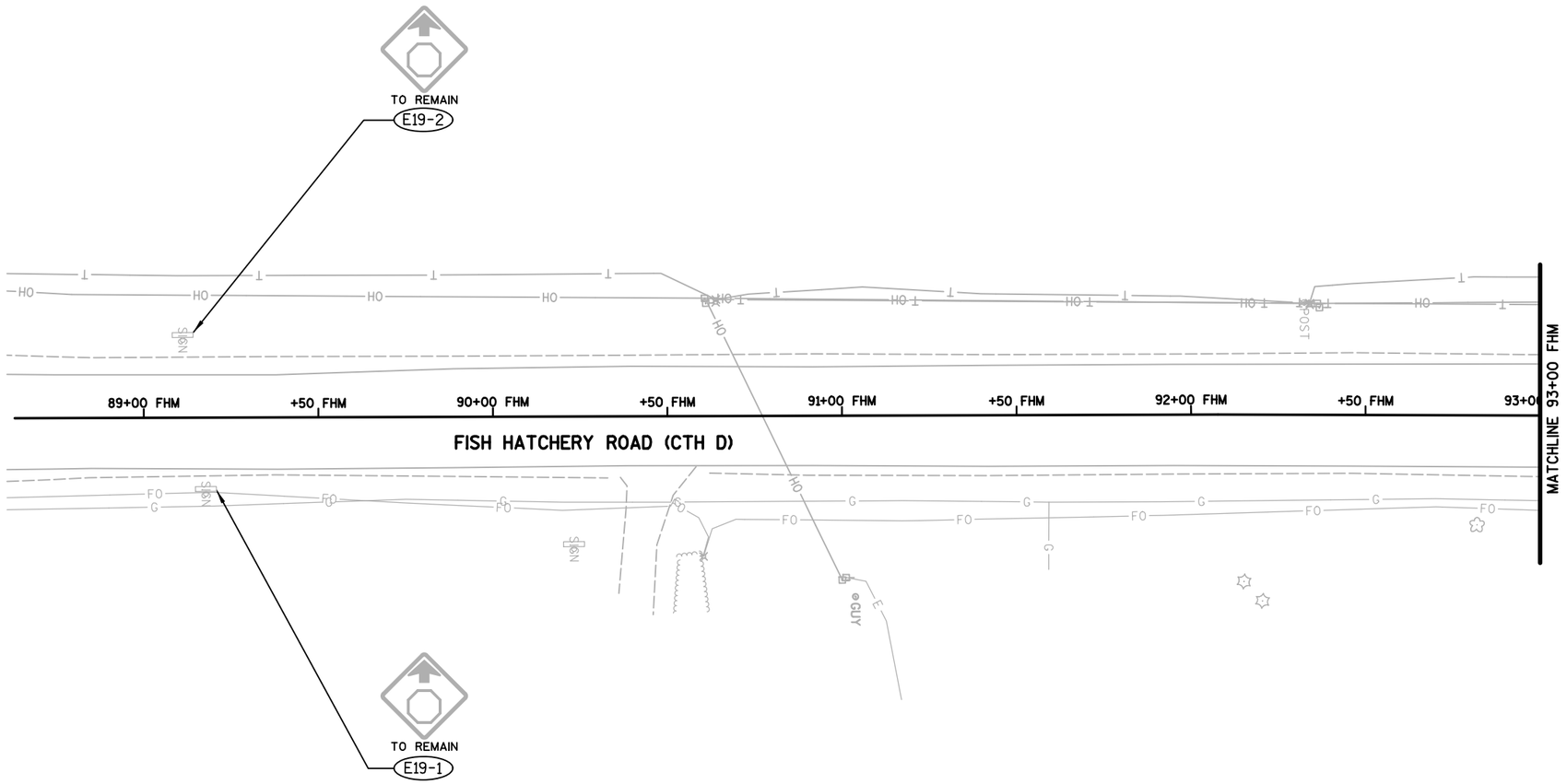
TO REMAIN
E18-1

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH M AT FISH HATCHERY	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023219_ps_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - FISH HATCHERY AT CTH M	SHEET 311	E

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

E20-1
E20-2
45 M.P.H.
TO REMAIN

COUNTY D
E20-3
E20-4

COUNTY D
20-2
M1-5A
24" X 24"

I55-56
30" X 36"
SPONSOR
COUNTRY VIEW VETERINARY SERVICE
20-3

MATCHLINE STA. 93+00 FHM

FHM | +50 FHM | 94+00 FHM | +50 FHM | 95+00 FHM | +50 FHM | 96+00 FHM | +50 FHM | 97+00 FHM | +50 FHM | 98+00 FHM | +50 FHM | 99+0

MATCHLINE STA. 99+00 FHM

FISH HATCHERY ROAD (CTH D)

20-1
JCT
COUNTY
M
J1-1
24" X 39"

E20-5
JCT
COUNTY
M

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - FISH HATCHERY AT CTH M	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023221_ps_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

MATCHLINE STA. 101+50 FHM

MATCHLINE STA. 107+50 FHM

FHM 102+00 FHM +50 FHM 103+00 FHM +50 FHM 104+00 FHM +50 FHM 105+00 FHM +50 FHM 106+00 FHM +50 FHM 107+00 FHM +50

FISH HATCHERY ROAD (CTH D)

21-1

155-56
30" X 36"

E21-1

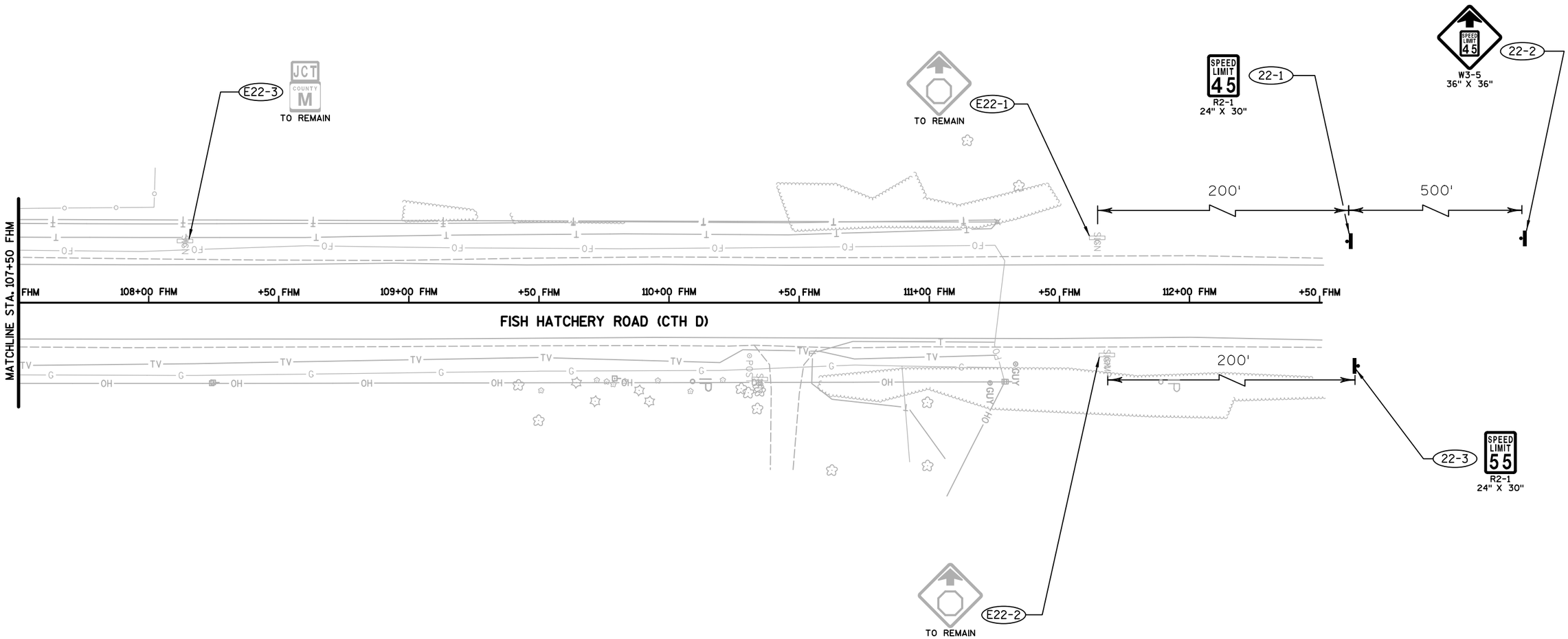
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - FISH HATCHERY AT CTH M	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023222_ps_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - FISH HATCHERY AT CTH M	SHEET 314	E

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

WHALEN ROAD

+50 WFH

98+00 WFH

+50 WFH

99+00 WFH

100+00 WFH

101+00 WFH

SPEED LIMIT 40
R2-1
24" X 30"
23-3

SPEED LIMIT 40
E23-7

STOP
R1-1
30" X 30"
23-2

STOP
E23-6

23-5
STOP
R1-1
18" X 18"

SPEED LIMIT 50
E23-4

SPEED LIMIT 40
R2-1
24" X 30"
23-1

E23-3

Whalen Rd
Fish Hatchery Rd
MOVE

E23-2
TO REMAIN

E23-1
TO REMAIN

FISH HATCHERY ROAD

FHW | +50 FHW | 96+00 FHW | +50 FHW | 97+00 FHW | +50 FHW | 98+00 FHW | +50 FHW | 99+00 FHW | +50 FHW | 100+00 FHW | +50 FHW | 101+00 FHW

MATCHLNE STA. 101+00 FHW

STOP
E23-8

STOP
R1-1
30" X 30"
23-4

E23-9
TO REMAIN

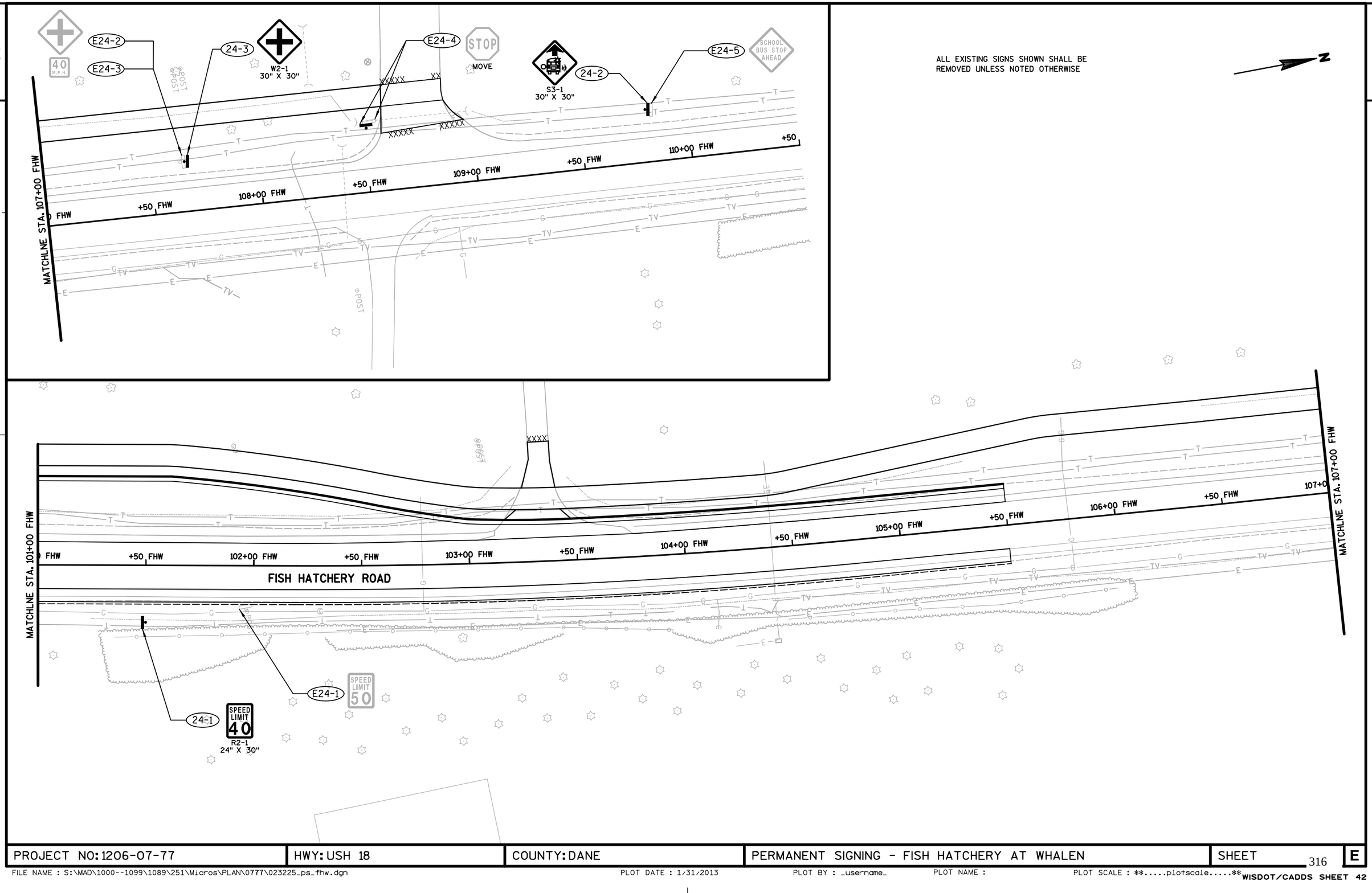
E23-10
TO REMAIN

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - FISH HATCHERY AT WHALEN	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023224_ps_fhw.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - FISH HATCHERY AT WHALEN	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023225_ps_fhw.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

N

FISH HATCHERY RD.
(CTH D)

CTH M

ADAMS RD.

WHALEN RD.

SEMINOLE HWY.

LACY RD.

SHAMROCK LN.

IRISH LN.

NOBEL DR.

SPEED LIMIT 55 — R2-1 24" X 30" — 19-3

SPEED LIMIT 45 — W3-5 36" x 36" — 19-2

SPEED LIMIT 45 — R2-1 24" x 30" — 19-1

45 M.P.H. — TO REMAIN — E19-5, E19-6

45 M.P.H. — E19-3, E19-4

REMOVE ADVISORY SPEED PLAQUE, LEFT CURVE WARNING TO REMAIN

500' 200'

SPEED LIMIT 55 — R2-1 24" x 30" — 22-6

SPEED LIMIT 55 — E23-16

SPEED LIMIT 40 — R2-1 24" x 30" — 23-9

SPEED LIMIT 40 — R2-1 24" x 30" — 23-7

SPEED LIMIT 50 — E23-13

40 M.P.H. — E23-11, E23-12

REMOVE ADVISORY SPEED PLAQUE RIGHT CURVE WARNING TO REMAIN

500' 2000' 2000' 2000' 2000' 2170' 1700'

REDUCED SPEED AHEAD 50 M.P.H. — E22-4, E22-5

SPEED LIMIT 40 — W3-5 36" x 36" — 22-4

SPEED LIMIT 40 — R2-1 24" x 30" — 22-5

SPEED LIMIT 50 — E23-17

SPEED LIMIT 40 — R2-1 24" x 30" — 23-8

SPEED LIMIT 40 — R2-1 24" x 30" — 23-6

40 M.P.H. — E23-14, E23-15

REMOVE ADVISORY SPEED PLAQUE, LEFT CURVE WARNING TO REMAIN

SPEED LIMIT 40 — E24-7

SPEED LIMIT 50 — E24-6

SPEED LIMIT 40 — R2-1 24" x 30" — 24-4

SPEED LIMIT 50 — E24-8

SPEED LIMIT 40 — TO REMAIN — E24-9

SCALE, FEET 0 1000 2000

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING	SHEET 317	E

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

SEMINOLE HIGHWAY

MATCHLINE STA. 98+00 SL

93+00 SL | +50 SL | 94+00 SL | +50 SL | 95+00 SL | +50 SL | 96+00 SL | +50 SL | 97+00 SL | +50 SL | 98+00 SL

25-3 — W5-52L 12" X 36"
25-4 — W5-52R 12" X 36"
E25-3
25-8 — W5-52L 12" X 36"
25-9 — W5-52R 12" X 36"
E25-4
SPEED LIMIT 50 — R2-1 24" X 30"
25-10
E25-6 — SPEED LIMIT 50

25-1 — W5-52R 12" X 36"
25-2 — W5-52L 12" X 36"
25-5 — W3-1 36" X 36"
E25-1
25-6 — W5-52R 12" X 36"
E25-2
25-7 — W5-52L 12" X 36"
E25-5

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - SEMINOLE HWY AT LACY	SHEET 318	E

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

MATCHLNE STA. 98+00 LR

99+00 LR

+50 LR

100+00 LR

101+00 LR

MATCHLNE STA. 101+50 LR

LACY ROAD

SEMINOLE HIGHWAY

MATCHLNE STA. 98+00 SL

98+00 SL | +50 SL | 99+00 SL | +50 SL | 100+00 SL | +50 SL | 101+00 SL | +50 SL | 102+00 SL | +50 SL | 103+00 SL | +50 SL | 104+0

Lacy Rd
Seminole Hwy
MOVE

E26-2

E26-3

STOP
ALL WAY

R1-1
30" X 30"
26-1

R1-3P
18" X 6"
26-2

E26-4

200 FT
MOVE

BLINKING
STOP
ALL WAY
MOVE

E26-5

E26-9

W3-1
36" X 36"
STA. 105+90 SL, LT

26-7

BLINKING
STOP
ALL WAY
MOVE

E26-1

26-3
26-4

R1-1
30" X 30"
R1-3P
18" X 6"

E26-6

26-5

CURB
LANE
BICYCLES AND
RIGHT TURNS
ONLY

R3-52
30" X 36"

E26-7

26-6

SPEED
LIMIT
50

R2-1
24" X 30"

E26-8

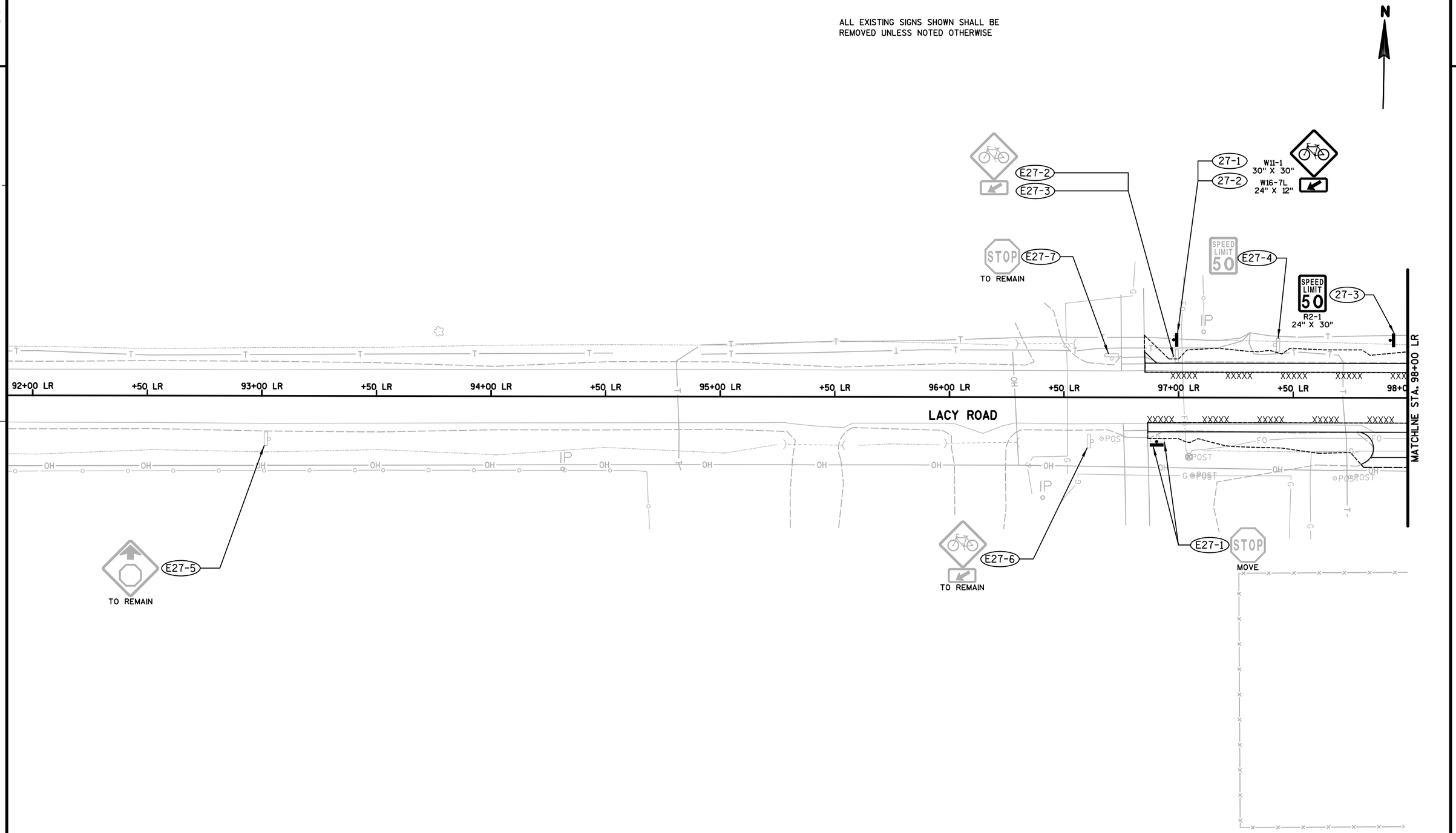
SPEED
LIMIT
50

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - SEMINOLE HWY AT LACY	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023228_ps_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 42

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N



2

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - LACY AT SEMINOLE HWY	SHEET 320	E

2

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

E28-3
TO REMAIN

MATCHLINE STA. 101+50 LR

LR 102+00 LR +50 LR 103+00 LR +50 LR 104+00 LR +50 LR 105+00 LR +50 LR 106+00 LR +50 LR 107+00 LR +50 LR

LACY ROAD

FO OH G

SPEED LIMIT 35
R2-1
24" X 30"
28-1

NO PARKING ANY TIME
R7-1D
18" X 24"
28-2

SPEED LIMIT 35
E28-1

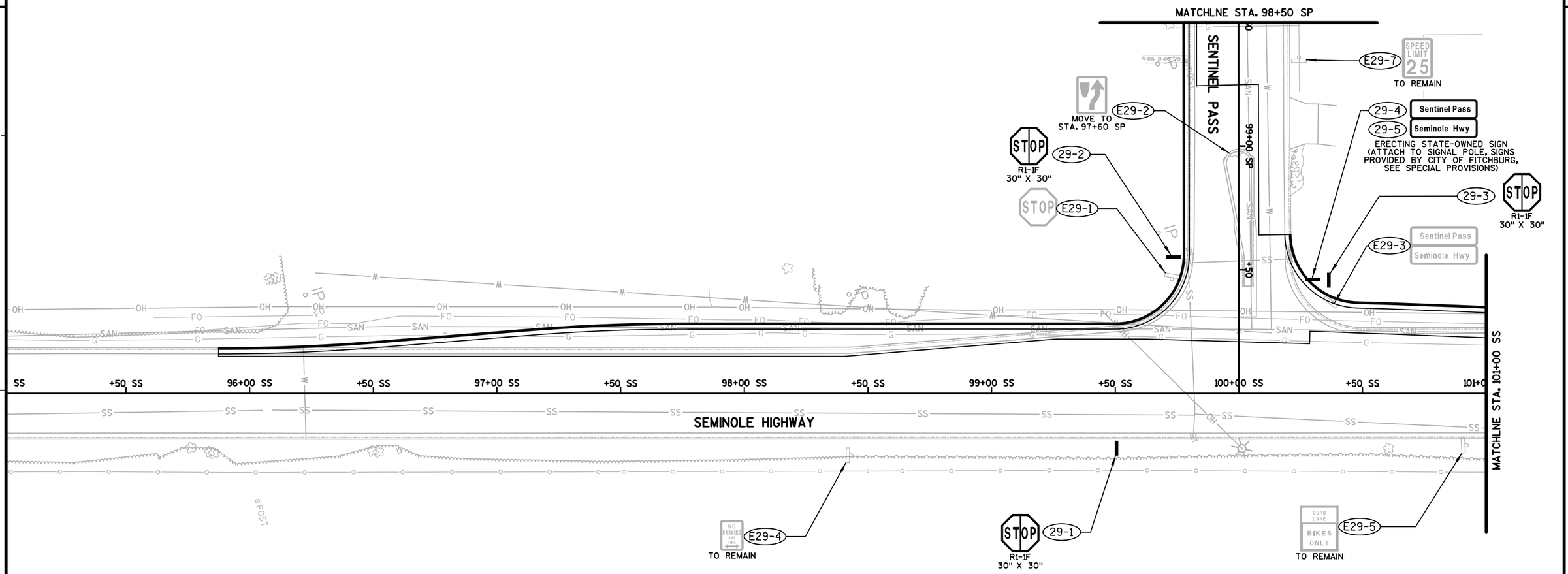
NO PARKING ANY TIME
E28-2

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - LACY AT SEMINOLE HWY	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023230_ps_lr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - SEMINOLE AT SENTINEL	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023231_ps_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

MATCHLNE STA. 101+00 SS

0 SS +50 SS 102+00 SS +50 SS 103+00 SS +50 SS 104+00 SS +50 SS 105+00 SS +50 SS 106+00 SS +50 SS 107+0

SEMINOLE HIGHWAY

E30-1 Fitchburg POPULATION 25,260 MOVE

E30-2 CALENDAR PARKING REGULATIONS IN EFFECT NOV 15 - MAR 31 MOVE

E30-9 BICYCLE FRIENDLY COMMUNITY MOVE

E30-7 TRUCKS OVER 8,000 LBS PROHIBITED CITY ORD. 09-2056 TO REMAIN

E30-8 CURB LANE BICYCLES AND RIGHT TURNS ONLY TO REMAIN

E30-3 SPEED LIMIT 25 TO REMAIN

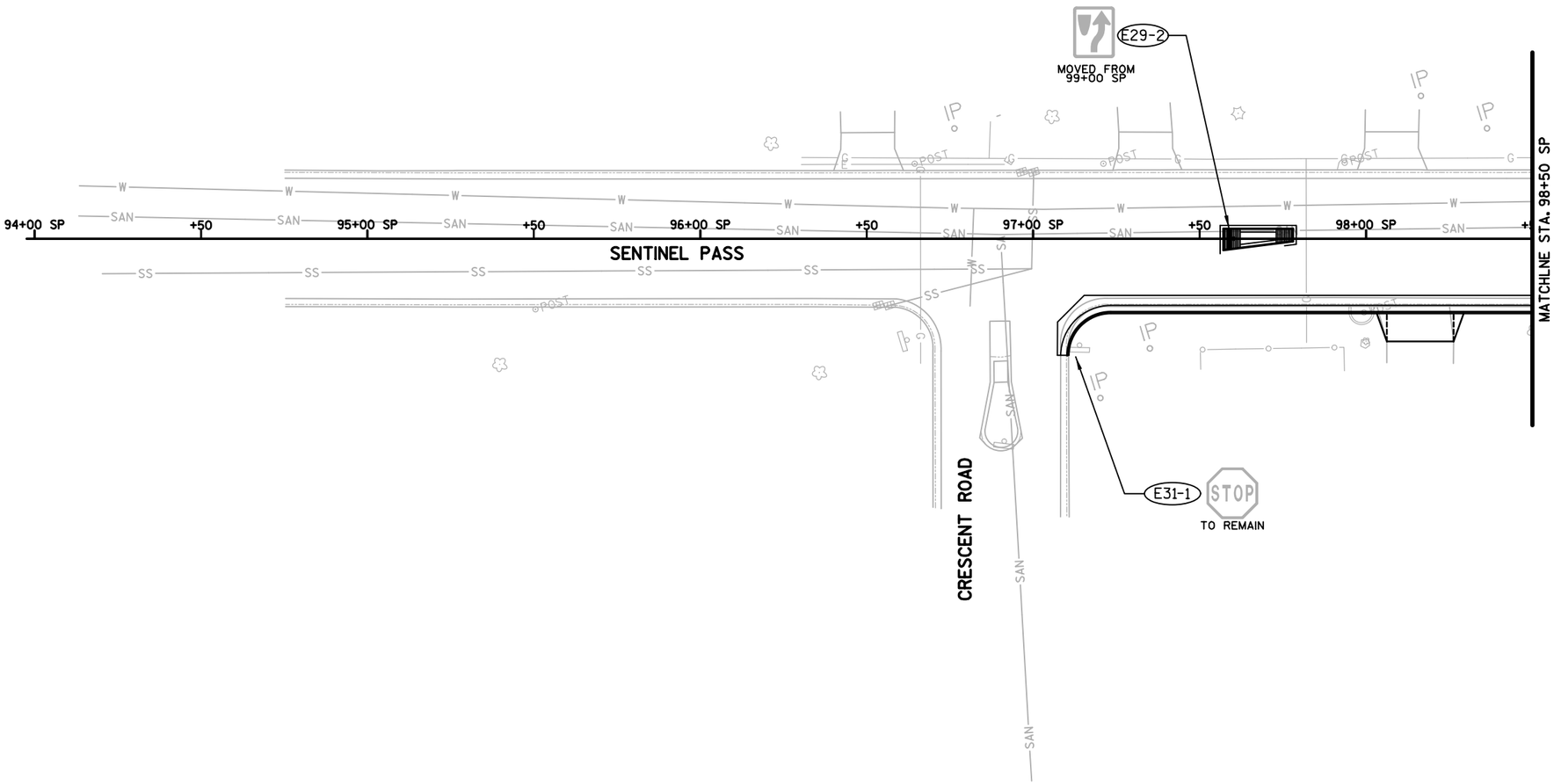
E30-5 NO PARKING ANY TIME TO REMAIN

E30-6 TRUCK ROUTES HAVE YELLOW SIGN POSTS TO REMAIN

E30-4 Madison POPULATION XXX,XXX TO REMAIN

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - SEMINOLE AT SENTINEL	SHEET 323	E

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - SENTINEL AT SEMINOLE	SHEET	E

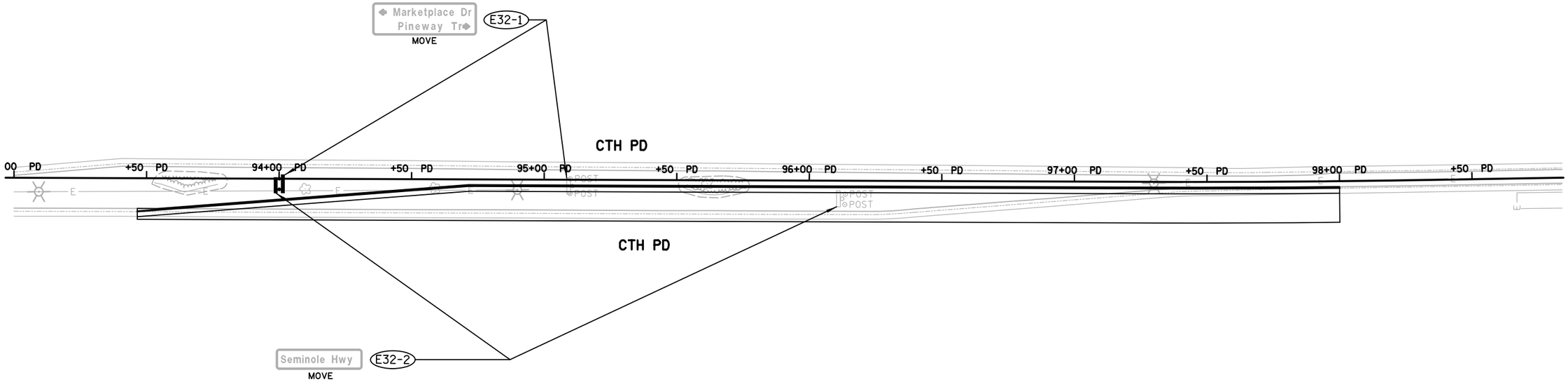
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2

2

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N



NOTE:
CENTER OF CTH PD - SEMINOLE
HIGHWAY INTERSECTION IS LOCATED
AT STA. 100+00 PD

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - CTH PD AT SEMINOLE HWY	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023234_ps_pd.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

ALL EXISTING SIGNS SHOWN SHALL BE REMOVED UNLESS NOTED OTHERWISE

N

YUMA DRIVE

NAKOMA ROAD

SEMINOLE HIGHWAY

E33-1 NO PARKING BETWEEN SIGNS

E33-2 NO PARKING HERE TO CORNER MOVE

E33-3 NO PARKING BETWEEN SIGNS

E33-4

E33-5 AHEAD

E33-6 W3-3 36" X 36"

E33-7 Nakoma Rd / Seminole Hwy MOVE

E33-8 Yuma Rd / Nakoma Rd MOVE

E33-9 STOP

E33-10 SPEED LIMIT 30 TO REMAIN

E33-11 NO PARKING HERE TO CORNER TO REMAIN

E33-12 * M METRO

E33-13 YIELD TO REMAIN

E33-14 DO NOT ENTER TO REMAIN

E33-15

E33-16 NO PARKING HERE TO CORNER TO REMAIN

E33-17 SPEED LIMIT 25 TO REMAIN

E33-18 NO PARKING HERE TO CORNER TO REMAIN

E33-19 NO PARKING ANY TIME TO REMAIN

E33-20 BUS STOP ** REMOVED BY OTHERS

E33-21 NO PARKING ANY TIME TO REMAIN

E33-22 STOP TO REMAIN

E33-23 AHEAD TO REMAIN

E33-24 SCHOOL SPEED LIMIT 20 WHEN CHILDREN ARE PRESENT TO REMAIN

E33-25 BUS STOP ** REMOVED BY OTHERS

E33-26 SPEED LIMIT 25 TO REMAIN

E33-27 BUMP TO REMAIN

33-1 NO PARKING ANY TIME R7-1D 18" X 24"

33-2 STOP R1-1F 30" X 30"

33-3 S1-1 36" X 36"

33-4 WF16-9P 24" X 8"

33-5 R2-6P 24" X 18"

33-6 W3-3 36" X 36"

33-7 STOP R1-1F 30" X 30"

33-8 NO PARKING HERE TO CORNER R7-51L 18" X 24"

33-9 NO PARKING ANY TIME R7-1D 18" X 24"

33-10 STOP R1-1F 30" X 30"

33-11 STOP R1-1F 30" X 30"

33-12 * M METRO

33-13 * M METRO

98+00 N, +50 N, 99+00 N, +50 N, 100+00 N, +50 N, 101+00 N, +50 N, 102+00 N, +50 N, 103+00 N

97+00 SN, +50 SN, 98+00 SN, +50 SN, 99+00 SN, +50 SN, 100+00 SN, +50 SN, 101+00 SN

*SIGN INSTALLED BY OTHERS

**EXISTING METRO BUS STOP SIGNS REMOVED BY CITY OF MADISON, SEE MISCELLANEOUS QUANTITIES FOR REMOVING SMALL SIGN SUPPORTS

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - NAKOMA AT SEMINOLE/YUMA	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023235_ps_na.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

ALL EXISTING SIGNS SHOWN SHALL BE
REMOVED UNLESS NOTED OTHERWISE

N

+50 W

34-2

TO EAST 12 TO EAST 14
JV
48" X 48"

+00 W

S-13-424

+50 W

98+00 W

+50 W

99+00 W

+50 W

100+00 W

+50 W

101+00 W

+50 W

102+00 W

+50 W

103+0

WEST 12 WEST 14
REMOVE

E34-4

34-5

Gilbert Rd
M1-94
60" X 15"

E34-1

Gilbert Rd
S Whitney Way
MOVE

E34-5

Gilbert Rd

GILBERT ROAD

WHITNEY WAY

Schroeder Rd
W Beltline Hwy

E34-2

E34-3

ICE ARENA
MOVE

34-4

JCT 12 JCT 14
J1-2
48" X 39"

EAST 12 EAST 14
J2-2
48" X 57"

34-6

Schroeder Rd
W Beltline Hwy
D1-2
96" X 30"

34-3

EAST 12 EAST 14
TO REMAIN

E34-6

WEST 12 WEST 14
J2-2
48" X 57"

34-1

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - WHITNEY AT GILBERT	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023236_ps_w.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

MILITARY RIDGE PATH

94+00 MR
+50 MR
95+00 MR
+50 MR
96+00 MR
+50 MR
97+00 MR
+50 MR
98+00 MR
+50 MR
99+00 MR
+50 MR
100+00 MR

+50 Y
11+00 Y
+50 Y
12+00 Y
+50 Y
13+00 Y
+50 Y

EB CTH PD
WB CTH PD
124+00 PD
+50 PD
125+00 PD
+50 PD
126+00 PD

MATCHLNE STA. 100+00 MR

N

W3-1
18" X 18"
40-9

W1-1L
18" X 18"
40-3

Military Ridge Path
D1-1
42" X 6"
40-4

REMOVE
E40-1

REMOVE
E40-2

NO MOTOR VEHICLES
R5-3
24" X 24"
40-5

YIELD
R1-2
36" X 31"
40-6

Military Ridge Path Information
REMOVE
E40-3

East McKee Rd
D1-1
36" X 6"
40-1

West McKee Rd
East McKee Rd
D1-2
36" X 12"
40-2

BIKE ROUTE
D11-1
24" X 18"
40-7

M7-4
12" X 9"
40-8

STOP
MOVE
E40-4

SIGN
WALLS
SCALE
GUY

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - MILITARY RIDGE PATH	SHEET 328	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023239_ps_mr.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

MILITARY RIDGE PATH

MATCHLINE STA. 100+00

100+00 MR
+50 MR
101+00 MR
+50 MR
102+00 MR
+50 MR
103+00 MR
+50 MR
104+00 MR
+50 MR
105+00 MR
+50 MR
106+00 MR

+50 Z
7+00 Z
+50 Z
8+00 Z
+50 Z
9+00 Z
+50 Z

127+00 PD
+50 PD
128+00 PD
+50 PD

WB CTH PD
EB CTH PD

E41-1 STOP
MOVE

E41-2
REMOVE

E41-3
REMOVE

E41-4
Military Ridge Path Information
REMOVE

41-1 YIELD
R1-2
18" X 18"

41-2 NO MOTOR VEHICLES
R5-3
24" X 24"

41-3 BIKE ROUTE
D11-1
24" X 18"

41-4
M7-4
12" X 9"

41-5
W1-1L
18" X 18"

41-6 West McKee Rd
D1-1
36" X 6"

41-7 East McKee Rd / West McKee Rd
D1-2
36" X 12"

41-8 Military Ridge Path
D1-1
42" X 6"

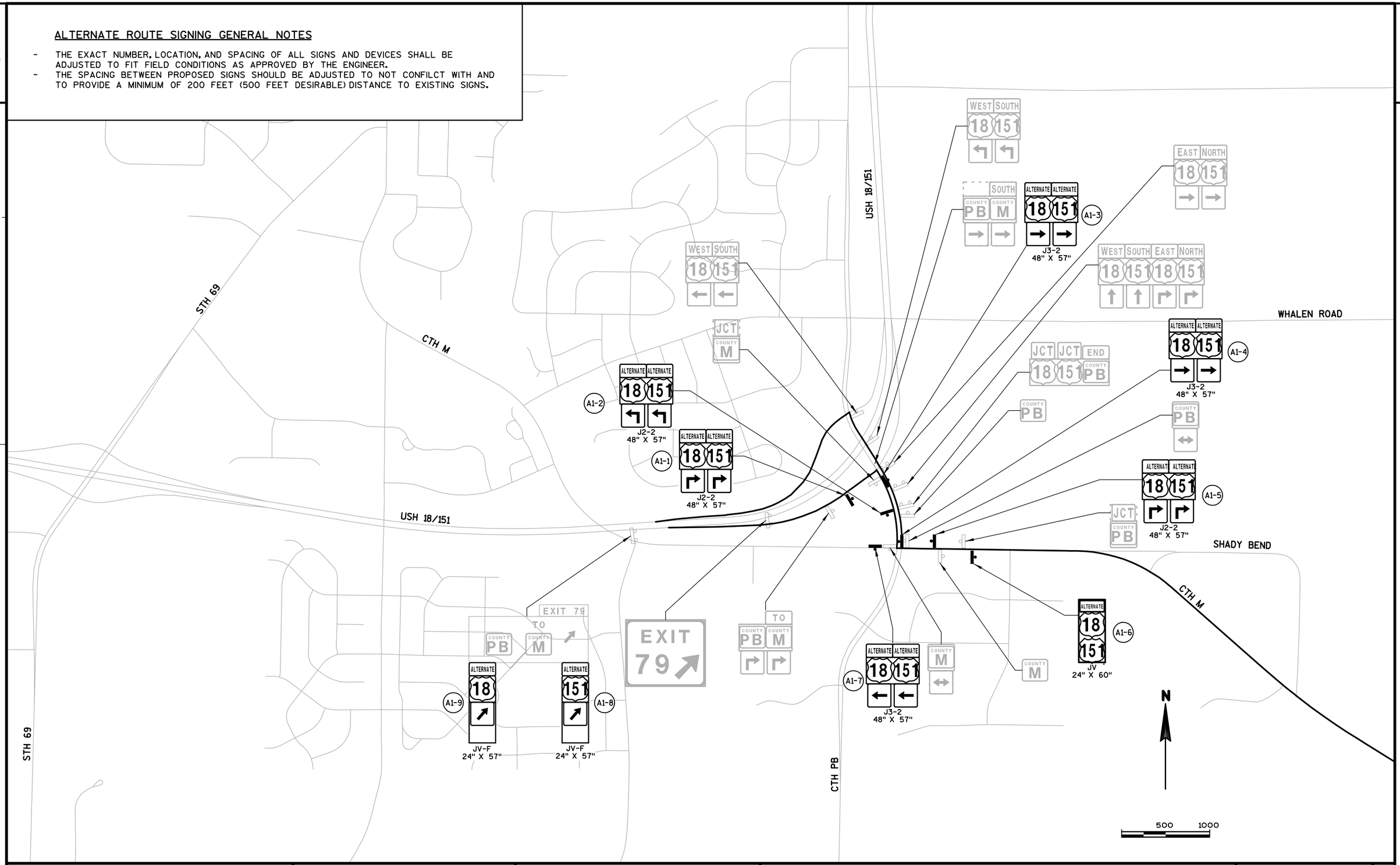
41-9
W3-1
18" X 18"

GUY
MH
POST
SIGN
INL
W

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	PERMANENT SIGNING - MILITARY RIDGE PATH	SHEET 329 E

ALTERNATE ROUTE SIGNING GENERAL NOTES

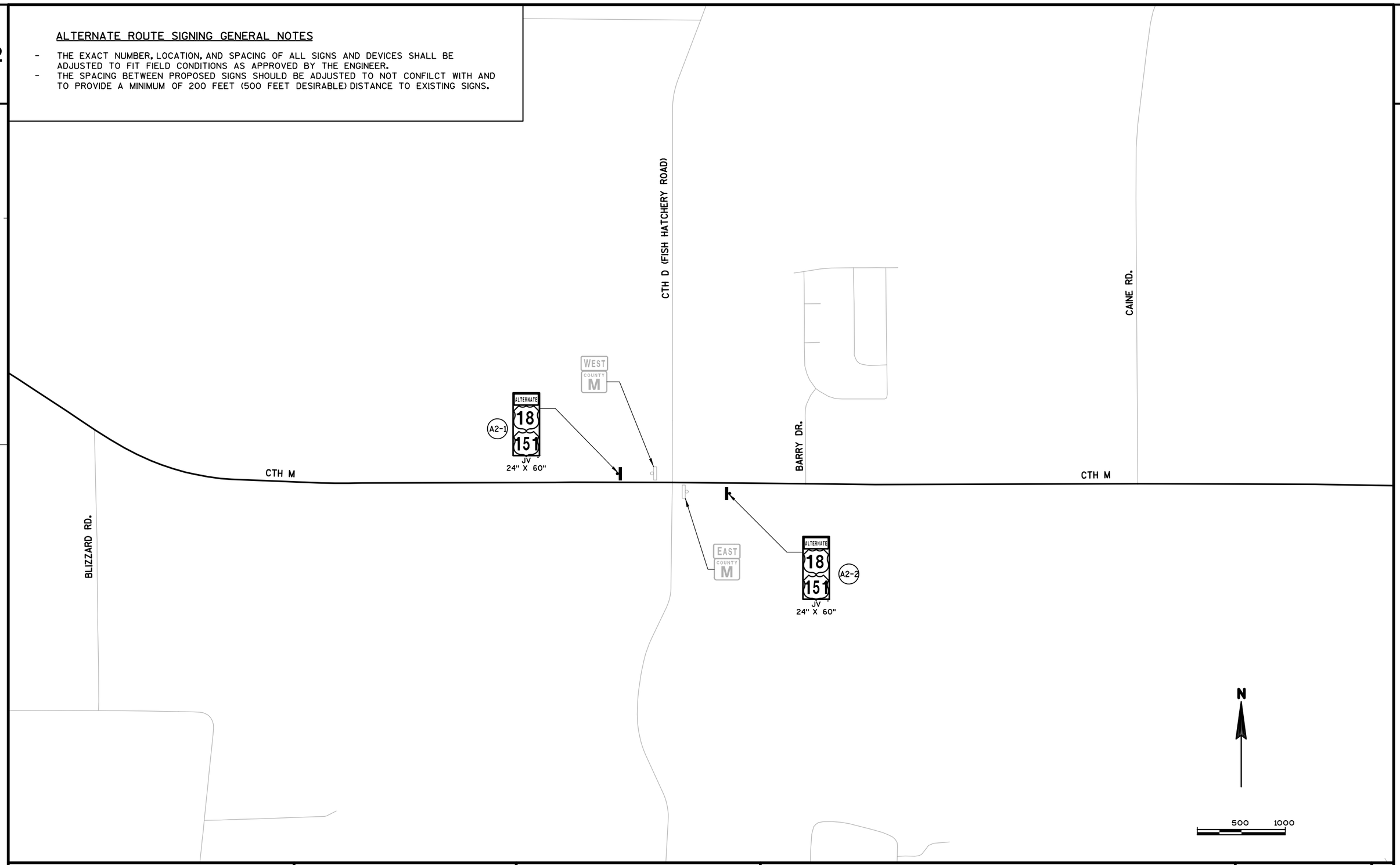
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFILCT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALTERNATE ROUTE SIGNING	SHEET 330	E

ALTERNATE ROUTE SIGNING GENERAL NOTES

- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFILCT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALTERNATE ROUTE SIGNING	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Alternative Route Signing\023202_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

N

COUNTY MM
OREGON
EXIT 1 MILE

ALTERNATE 18 — A3-5
J2-1
36" X 84"
BAND ON EXISTING SIGN SUPPORT

ALTERNATE 151 — A3-4
J2-1
36" X 84"
BAND ON EXISTING SIGN SUPPORT

USH 14

ALTERNATE 18 151 — A3-3
JV
24" X 60"

WEST 14

CTH MM

COUNTY MM
OREGON

ALTERNATE 18 — A3-1
J3-1
36" X 84"
BAND ON EXISTING SIGN SUPPORT

ALTERNATE 151 — A3-2
J3-1
36" X 84"
BAND ON EXISTING SIGN SUPPORT

SEE FOLLOWING SHEETS FOR
ALTERNATE ROUTE SIGNING INFORMATION

CTH M

CTH MM

USH 14

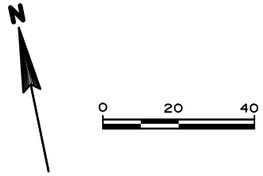
500 1000

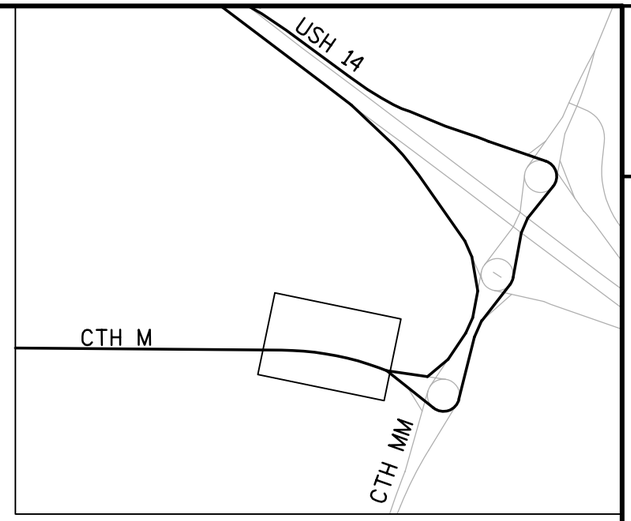
ALTERNATE ROUTE SIGNING GENERAL NOTES

- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFILCT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

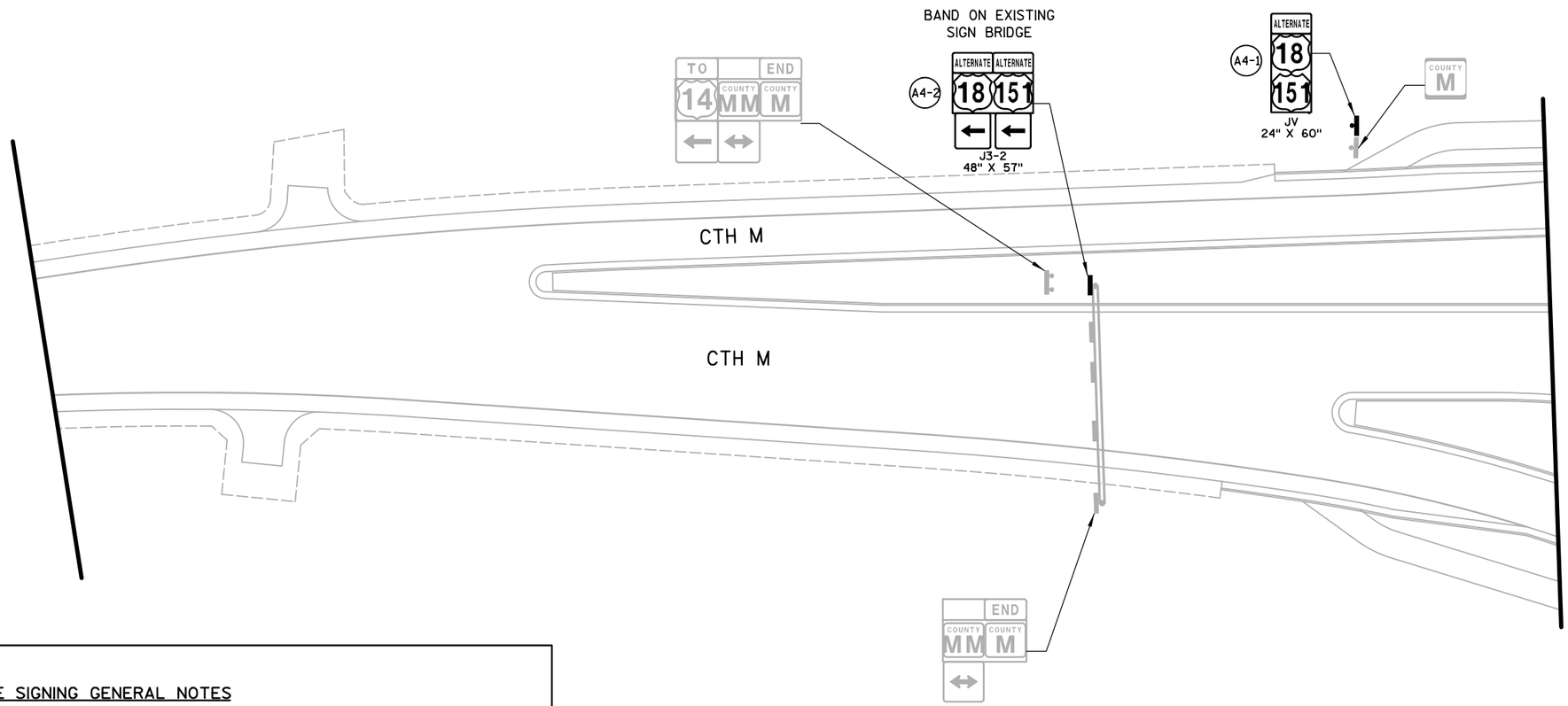
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALTERNATE ROUTE SIGNING	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Alternative Route Signing\023203_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42





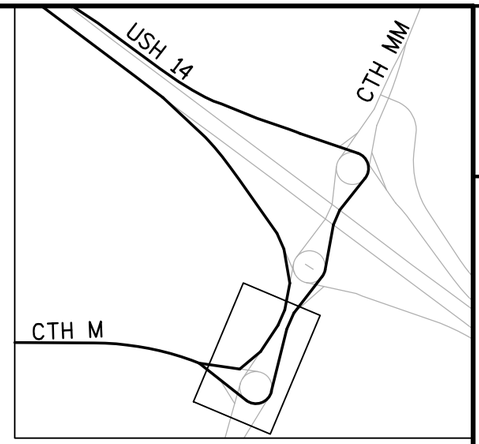
2

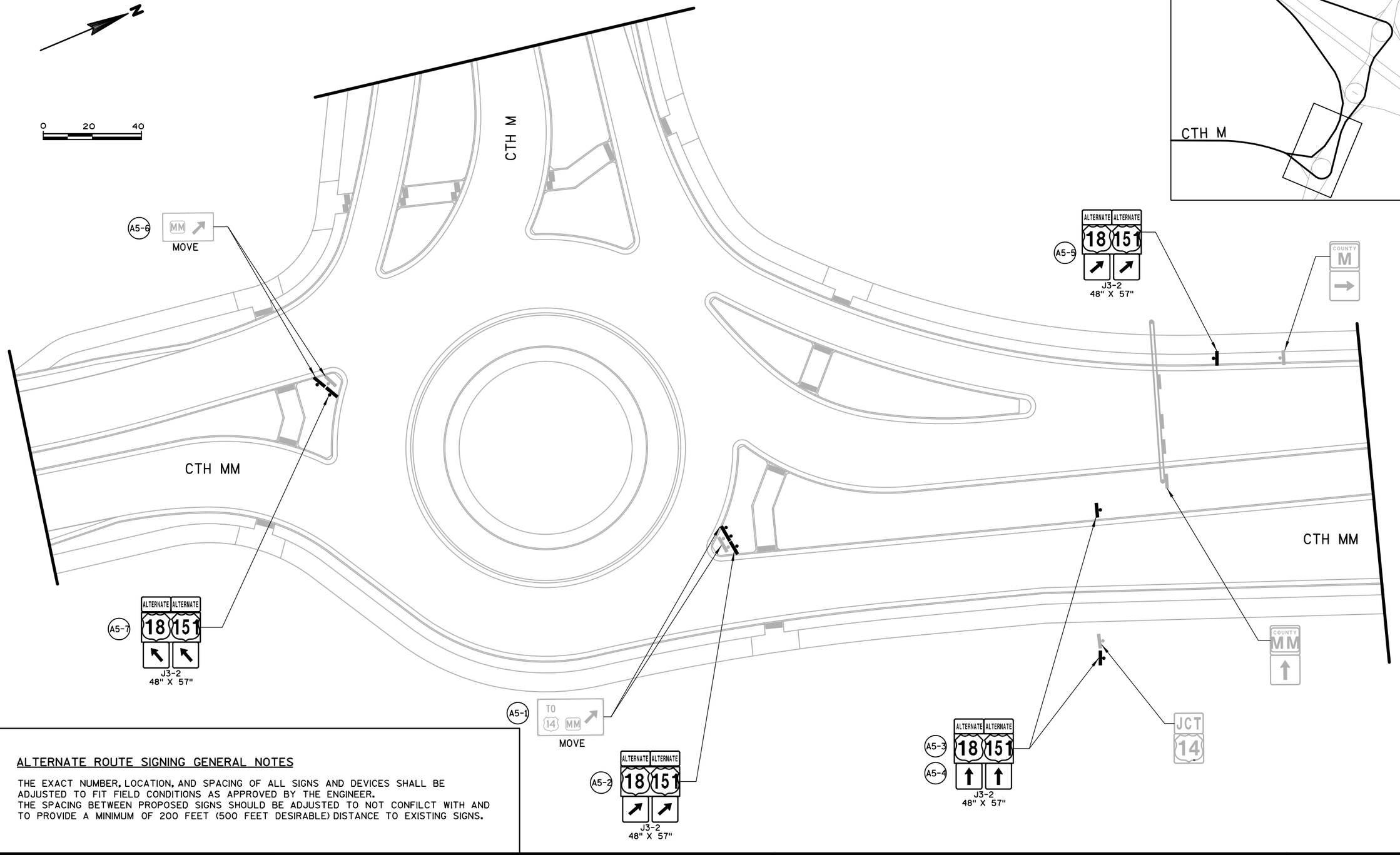


ALTERNATE ROUTE SIGNING GENERAL NOTES

- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFILCT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALTERNATE ROUTE SIGNING	SHEET 333	E





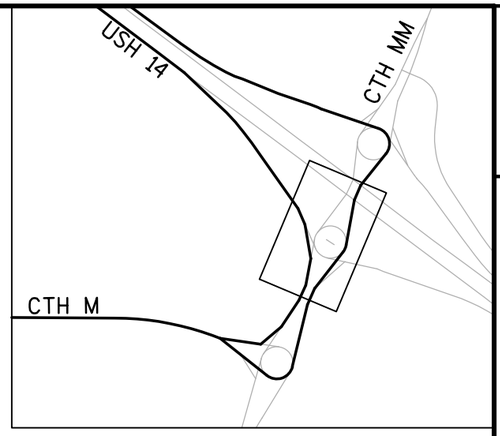
ALTERNATE ROUTE SIGNING GENERAL NOTES

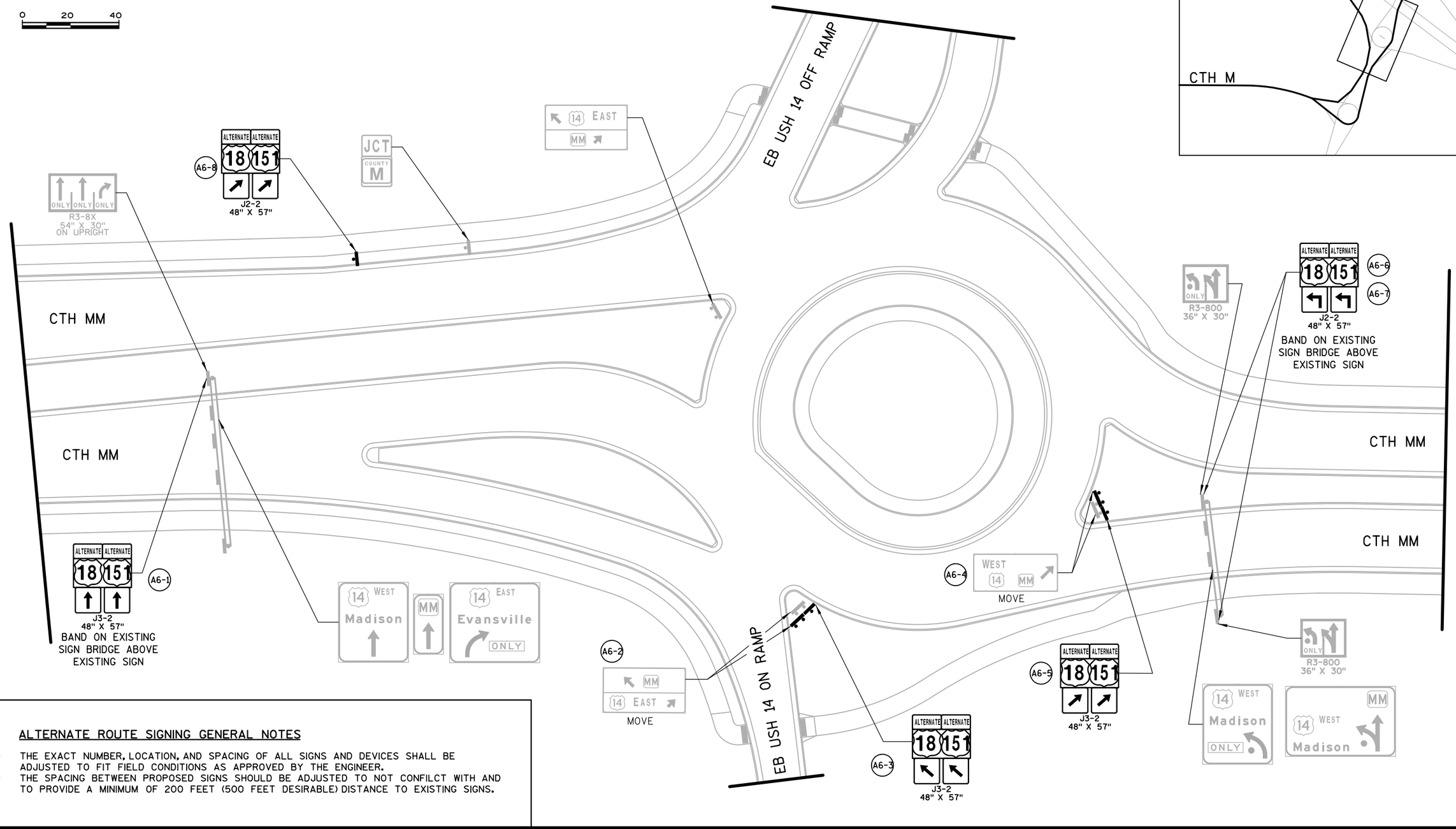
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFILCT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALTERNATE ROUTE SIGNING	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Alternative Route Signing\023205_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



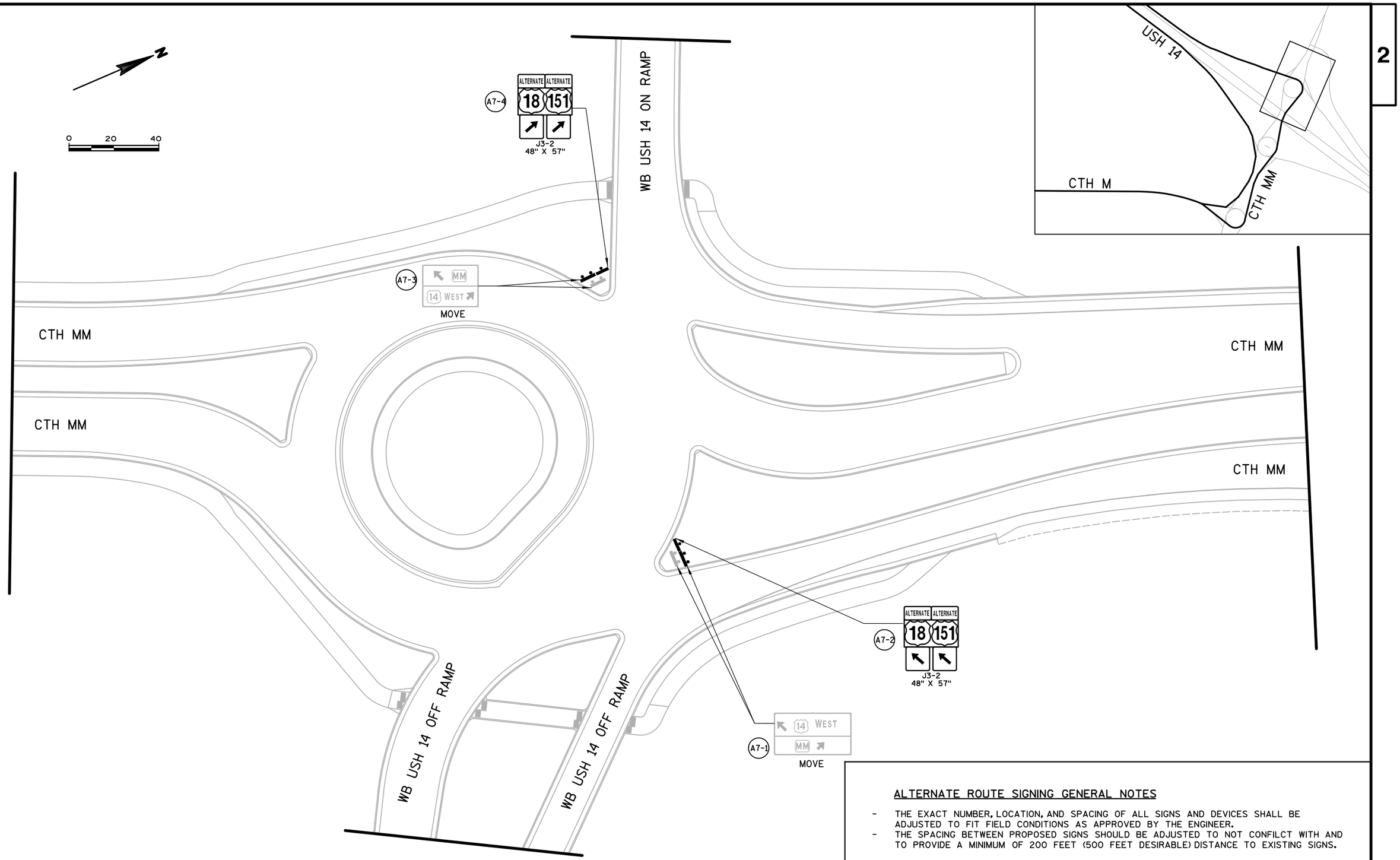




ALTERNATE ROUTE SIGNING GENERAL NOTES

- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFILCT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALTERNATE ROUTE SIGNING	SHEET 335	E

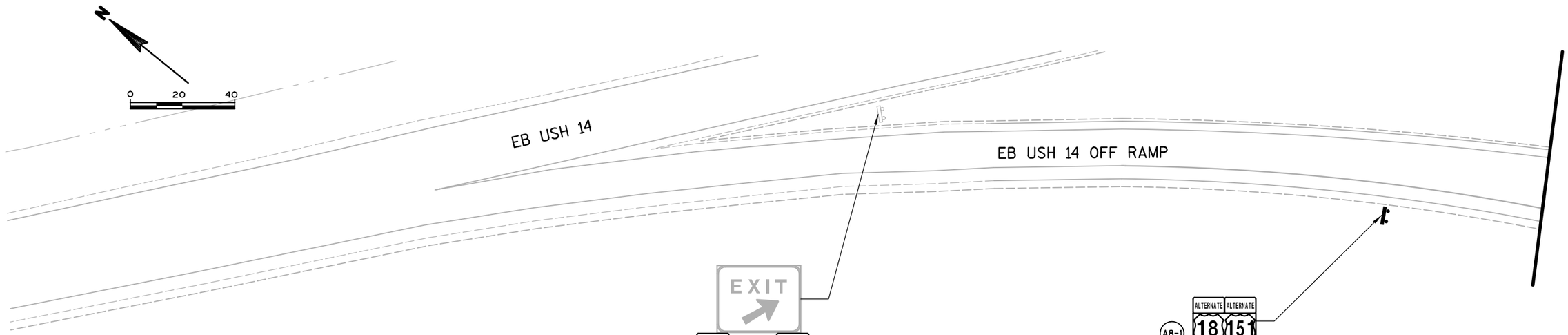


ALTERNATE ROUTE SIGNING GENERAL NOTES

- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFILCT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

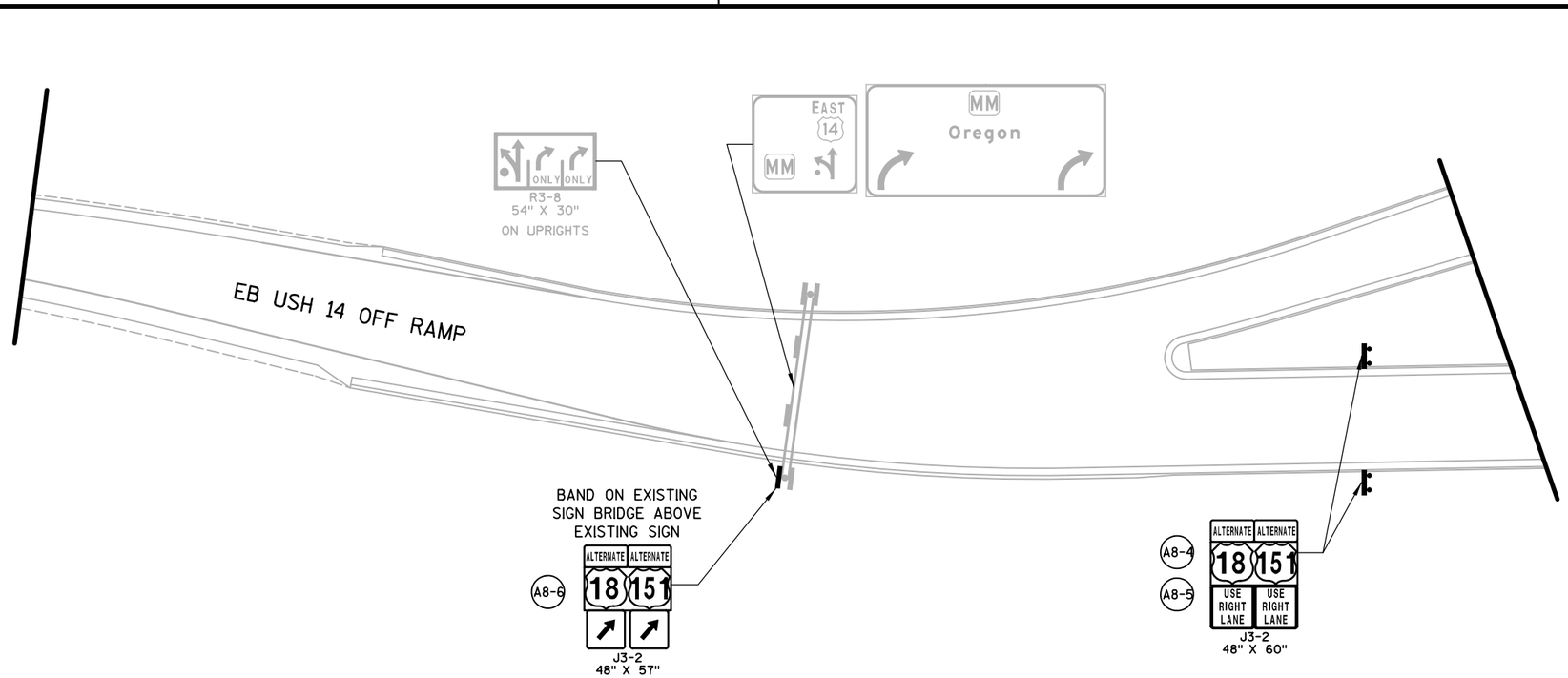
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALTERNATE ROUTE SIGNING	SHEET	E

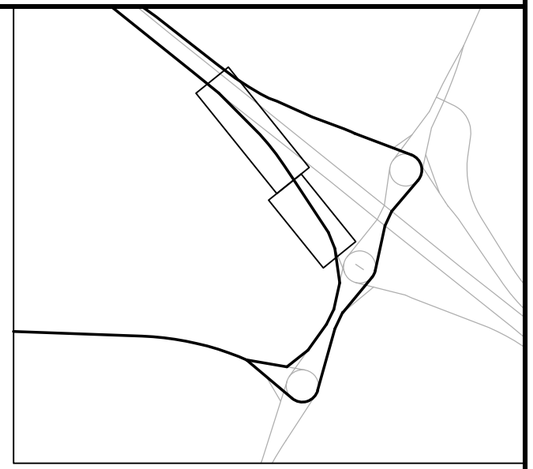
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Alternative Route Signing\023207_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



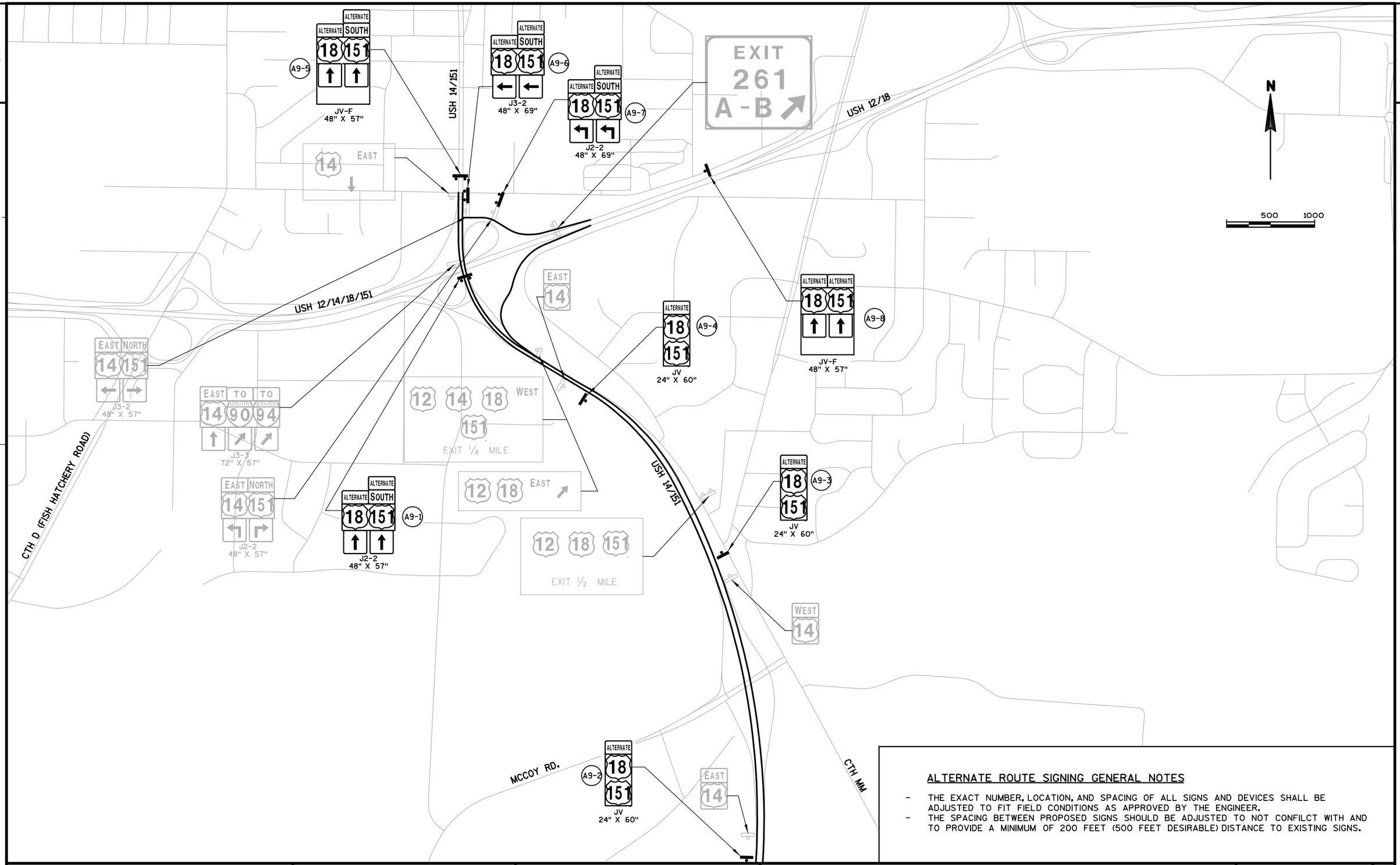
ALTERNATE ROUTE SIGNING GENERAL NOTES

- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFILCT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.





PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALTERNATE ROUTE SIGNING	SHEET 337	E



ALTERNATE ROUTE SIGNING GENERAL NOTES

- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- THE SPACING BETWEEN PROPOSED SIGNS SHOULD BE ADJUSTED TO NOT CONFILCT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALTERNATE ROUTE SIGNING	SHEET 338	E

LEGEND

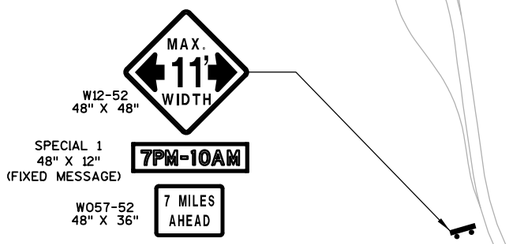
SIGN ON PERMANENT SUPPORT

MS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES

① ALL SIGNS SHALL BE INSTALLED AT THE BEGINNING OF THE PROJECT EXCEPT AS NOTED ON THE PLANS.

② THE EXACT LOCATION AND SPACING OF THE SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



W12-52
48" X 48"

SPECIAL 1
48" X 12"
(FIXED MESSAGE)

7PM-10AM

W057-52
48" X 36"

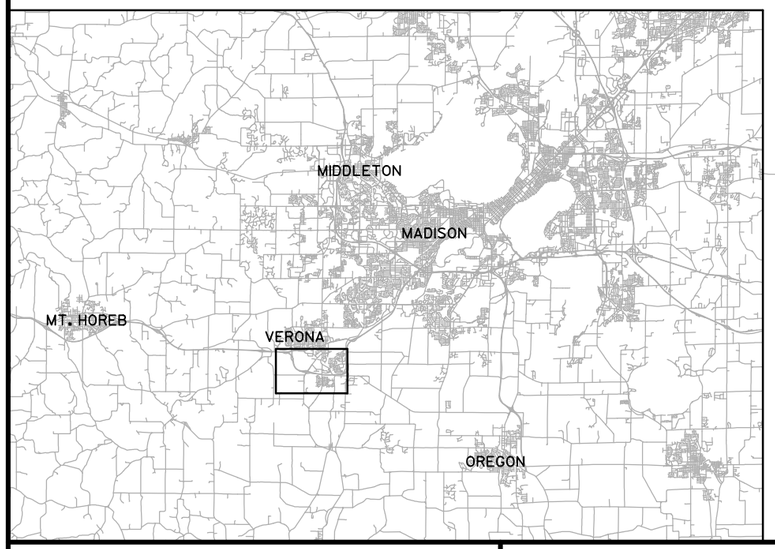
7 MILES
AHEAD

R12-70B
114" X 42"

WIDE LOADS
EXCEEDING
11 FT

SPECIAL 2
114" X 18"
(FIXED MESSAGE)

7 PM - 10 AM



STH 69

USH 18/151

CTH M

CTH PB

N

500 1000

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - WIDE LOAD RESTRICTIONS	SHEET 339	E

LEGEND

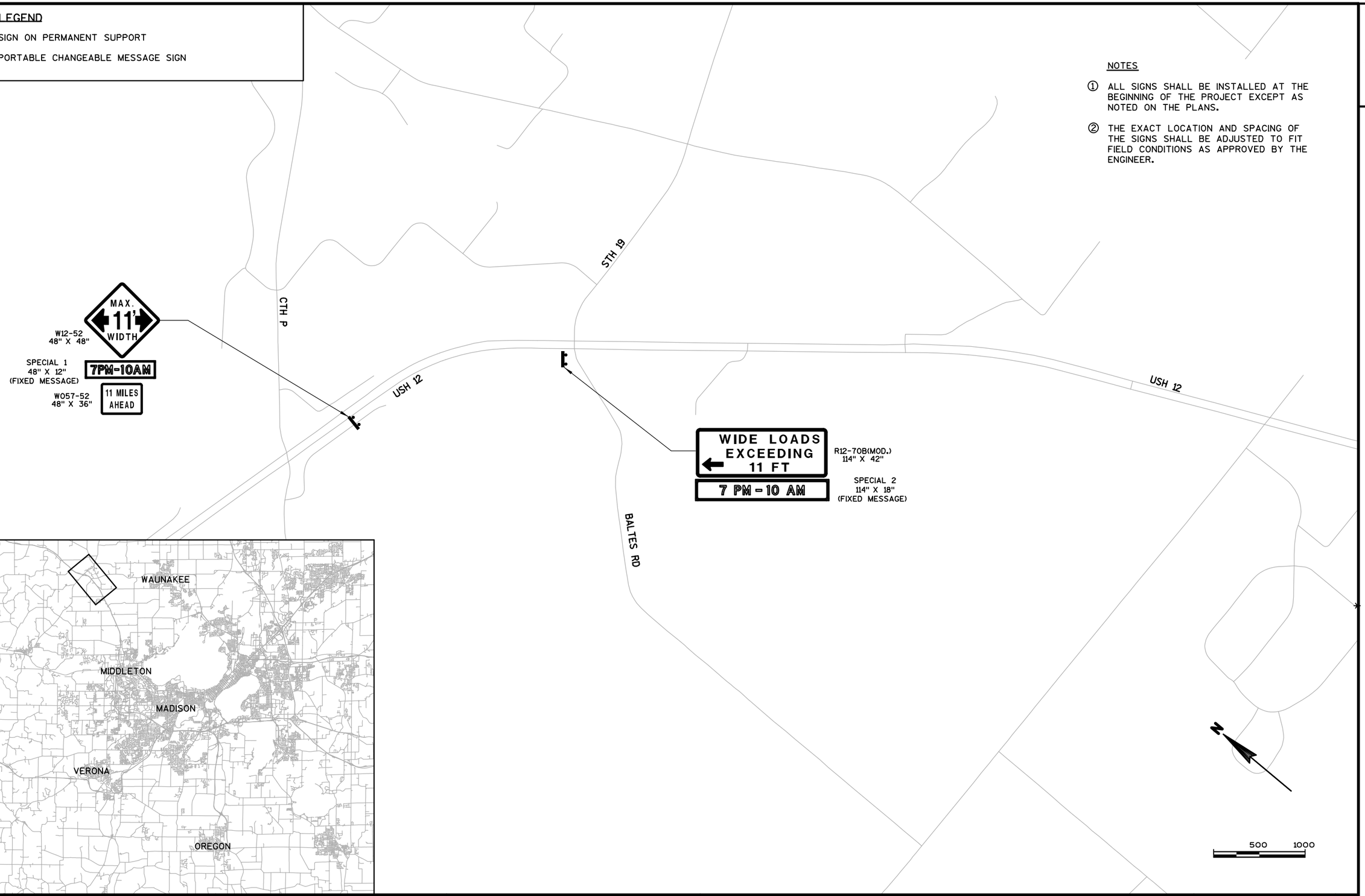
SIGN ON PERMANENT SUPPORT

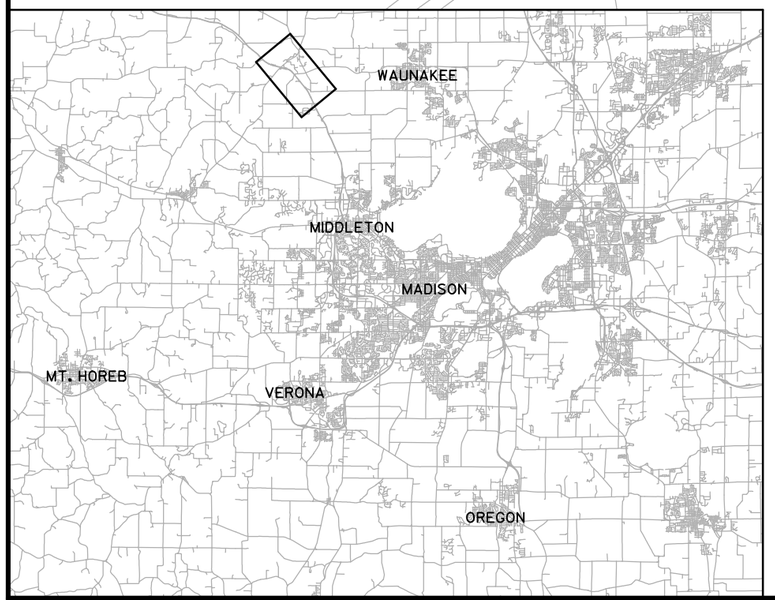
MS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES

① ALL SIGNS SHALL BE INSTALLED AT THE BEGINNING OF THE PROJECT EXCEPT AS NOTED ON THE PLANS.

② THE EXACT LOCATION AND SPACING OF THE SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.





PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - WIDE LOAD RESTRICTIONS	SHEET 340	E

LEGEND

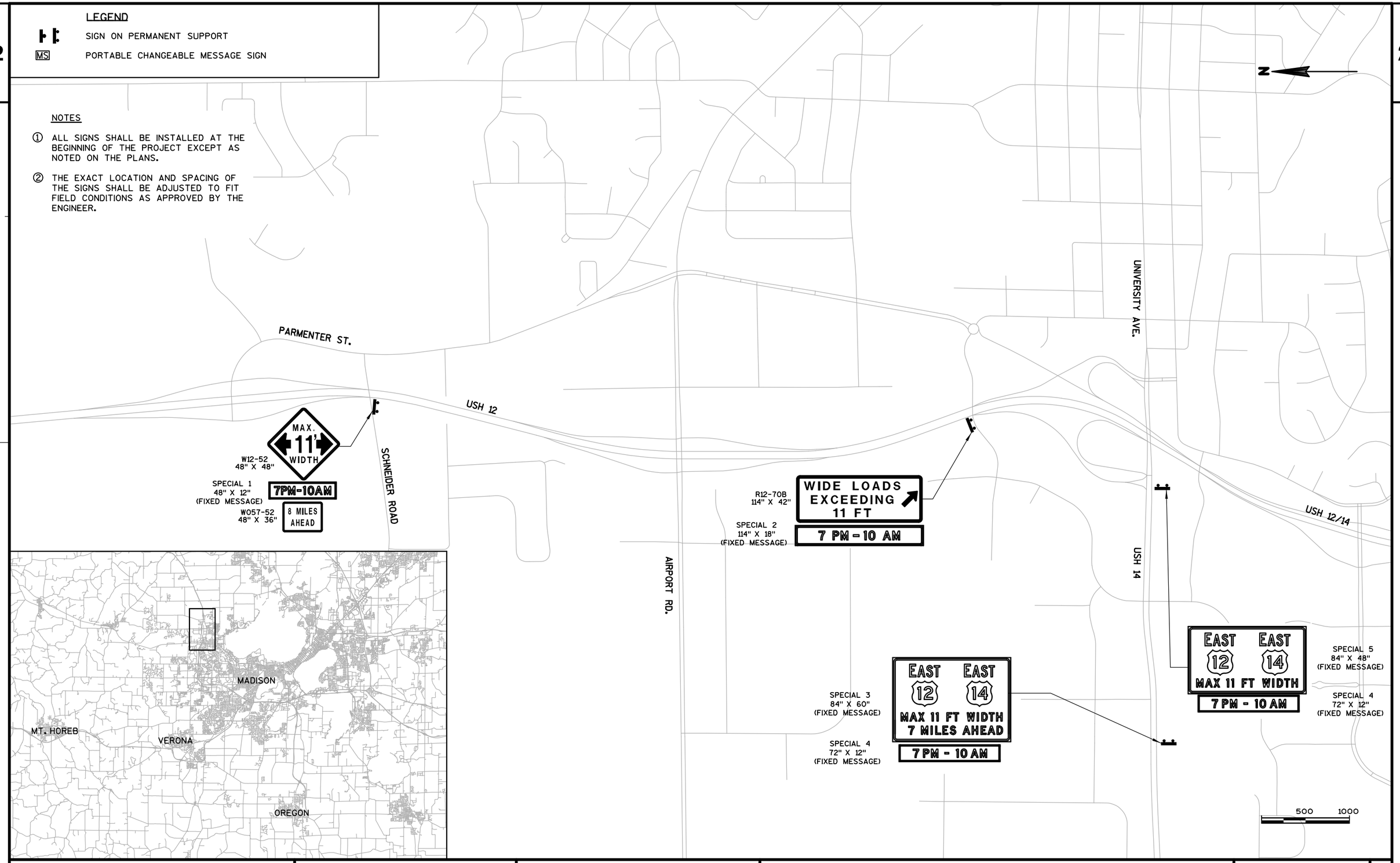
SIGN ON PERMANENT SUPPORT

MS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES

① ALL SIGNS SHALL BE INSTALLED AT THE BEGINNING OF THE PROJECT EXCEPT AS NOTED ON THE PLANS.

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - WIDE LOAD RESTRICTIONS	SHEET E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Alternative Route Signing\023211_ps.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

SIGN ON PERMANENT SUPPORT

MS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES

① ALL SIGNS SHALL BE INSTALLED AT THE BEGINNING OF THE PROJECT EXCEPT AS NOTED ON THE PLANS.

② THE EXACT LOCATION AND SPACING OF THE SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

③ INSTALL SIGNS AFTER COMPLETION OF PROJECT ID. 1206-04-61 (YAHARA RIVER B-13-315/316).

MONONA DR

USH 51

USH 12/18

③

WEST 12 WEST 14

MAX 11 FT WIDTH

8 MILES AHEAD

7 PM - 10 AM

SPECIAL 8
84" X 60"
(FIXED MESSAGE)

SPECIAL 4
72" X 12"
(FIXED MESSAGE)

③

R12-70B
114" X 42"

WIDE LOADS EXCEEDING 11 FT

7 PM - 10 AM

SPECIAL 2
114" X 18"
(FIXED MESSAGE)

③

W12-52
48" X 48"

MAX. 11' WIDTH

7PM-10AM

SPECIAL 1
48" X 12"
(FIXED MESSAGE)

W057-52
48" X 36"

8 MILES AHEAD

USH 51

③

WEST 12 WEST 14

MAX 11 FT WIDTH

8 MILES AHEAD

7 PM - 10 AM

SPECIAL 8
84" X 60"
(FIXED MESSAGE)

SPECIAL 4
72" X 12"
(FIXED MESSAGE)

N

500 1000

MIDDLETON

MADISON

MT. HOREB

VERONA

OREGON

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - WIDE LOAD RESTRICTIONS	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Alternative Route Signing\023211a_ps.dgn PLOT DATE : 2/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

SIGN ON PERMANENT SUPPORT

MS PORTABLE CHANGEABLE MESSAGE SIGN

NOTES

① ALL SIGNS SHALL BE INSTALLED AT THE BEGINNING OF THE PROJECT EXCEPT AS NOTED ON THE PLANS.

② THE EXACT LOCATION AND SPACING OF THE SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

USH 151

USH 12/18

USH 12/14/18/151

USH 14

CTH D (FISH HATCHERY ROAD)

MCCOY RD.

CTH MM

SPECIAL 8
84" X 60"
(FIXED MESSAGE)

WEST 12 WEST 14
MAX 11 FT WIDTH
3 MILES AHEAD
7 PM - 10 AM

SPECIAL 4
72" X 12"
(FIXED MESSAGE)

W12-52
48" X 48"

MAX. 11' WIDTH

SPECIAL 1
48" X 12"
(FIXED MESSAGE)

7PM-10AM

W057-52
48" X 36"

4 MILES AHEAD

WIDE LOADS EXCEEDING 11 FT
7 PM - 10 AM

R12-70B
114" X 42"

SPECIAL 2
114" X 18"
(FIXED MESSAGE)

WIDE LOADS EXCEEDING 11 FT
7 PM - 10 AM

R12-70B
114" X 42"

SPECIAL 2
114" X 18"
(FIXED MESSAGE)

SPECIAL 9
84" X 48"
(FIXED MESSAGE)

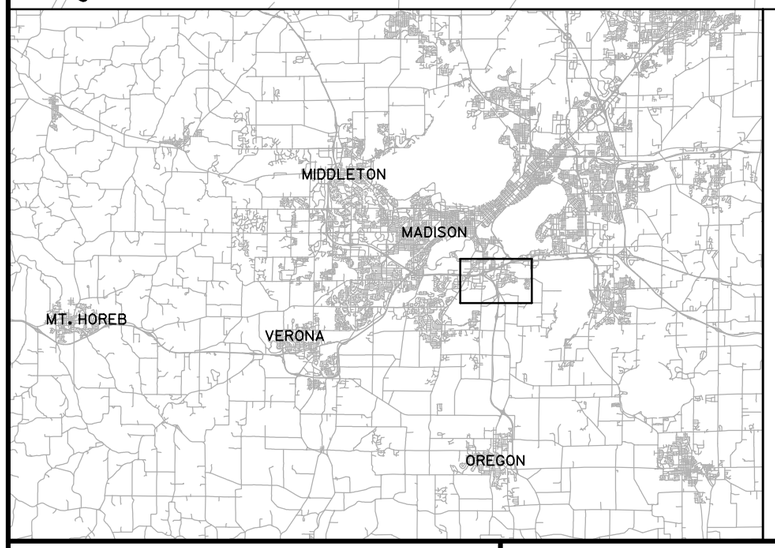
WEST 12 WEST 14
MAX 11 FT WIDTH
7 PM - 10 AM

SPECIAL 4
72" X 12"
(FIXED MESSAGE)

WEST 12 WEST 14
MAX 11 FT WIDTH
3 MILES AHEAD
7 PM - 10 AM

SPECIAL 6
132" X 90"
(FIXED MESSAGE)

SPECIAL 7
132" X 24"
(FIXED MESSAGE)



W12-52
48" X 48"

MAX. 11' WIDTH

SPECIAL 1
48" X 12"
(FIXED MESSAGE)

7PM-10AM

THREE SIGNS TO BE PLACED APPROACHING THE WORK ZONE FOR THE DURATION OF THE PROJECT.

SIGNS SHALL BE POSTED ON:

EB USH 18/151
WB USH 12/14/18/151
EB USH 12/14

500' IN ADVANCE OF THE RESTRICTION

N

500 1000

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - WIDE LOAD RESTRICTIONS	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Alternative Route Signing\023212_ps.dgn PLOT DATE : 2/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

ADVANCED WARNING GENERAL NOTES

PLACEMENT OF ALL ADVANCED WARNING SIGNS SHALL BE COORDINATED WITH ADJACENT PROJECTS INCLUDING BUT NOT LIMITED TO 1206-01-84 (FISH HATCHERY ROAD INTERCHANGE), 5992-02-07 (CANNONBALL TRAIL), 1206-04-61 (YAHARA RIVER BRIDGE)

FOR TRAFFIC CONTROL SIGNS PCMS PLACEMENT CONTACT WISDOT JEFF GUSTAFSON AT 608-516-6400

SEE TRAFFIC CONTROL SHEETS FOR ADDITIONAL INFORMATION

N

500 1000

MINERAL POINT

GAMMON ROAD

ROAD WORK 3 MILES W20-1

ROAD WORK 2 MILES W20-1

ROAD WORK 1 1/2 MILES W20-1

USH 12/14

WHITNEY WAY

SEGOE ROAD

ODANA ROAD

SIGNING IN ACCORDANCE WITH SDD AS SPECIFIED IN THE TRAFFIC CONTROL PLANS

FINES DOUBLE IN WORK ZONES — Give 'em a BRAKE SLOW DOWN

W21-62 96" X 48"

ROAD WORK AHEAD W20-1

RAMP

ROAD WORK 1 MILE W20-1

USH 12/14

SCHROEDER ROAD

GAMMON ROAD

SEE SHEET 2A

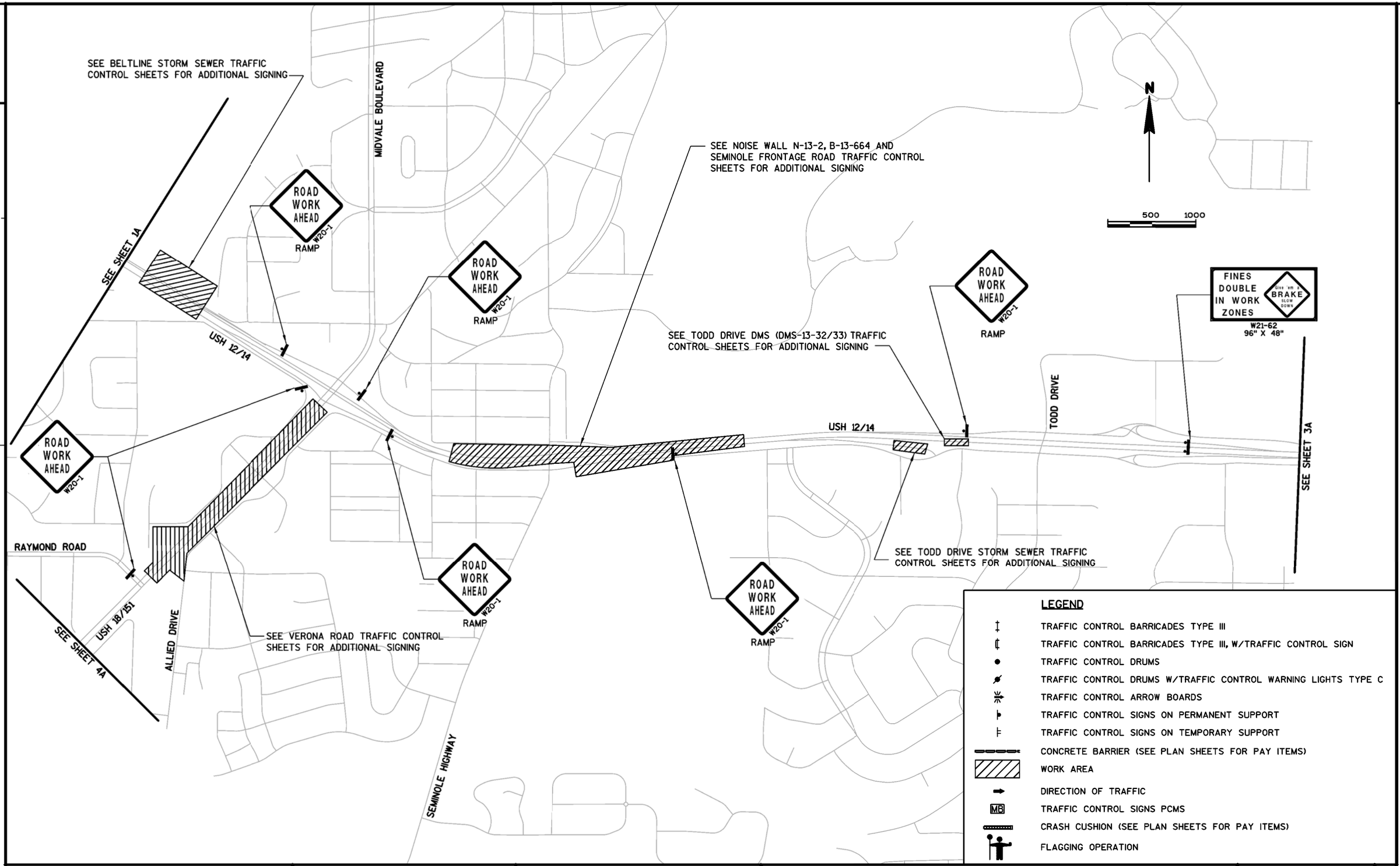
SEE NOISE WALL N-13-4 TRAFFIC CONTROL SHEETS FOR ADDITIONAL SIGNING

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ADVANCED WARNING SIGNING - YEAR ONE CONSTRUCTION - 1A	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\ADVANCE WARNING\023301_aw_2013.dgn PLOT DATE : 2/6/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

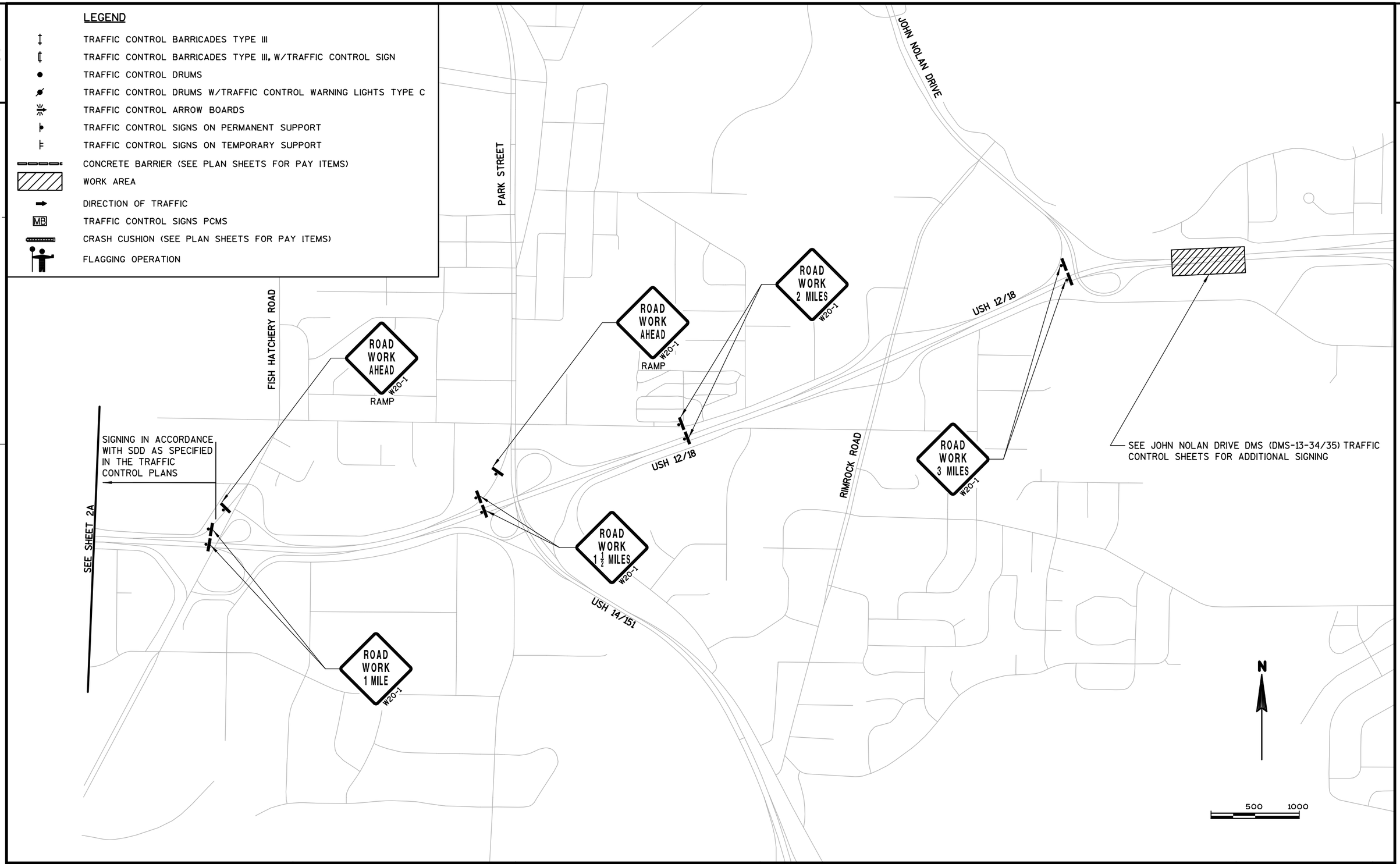
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ADVANCED WARNING SIGNING - YEAR ONE CONSTRUCTION - 2A	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\ADVANCE WARNING\023302_aw_2013.dgn PLOT DATE : 2/6/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



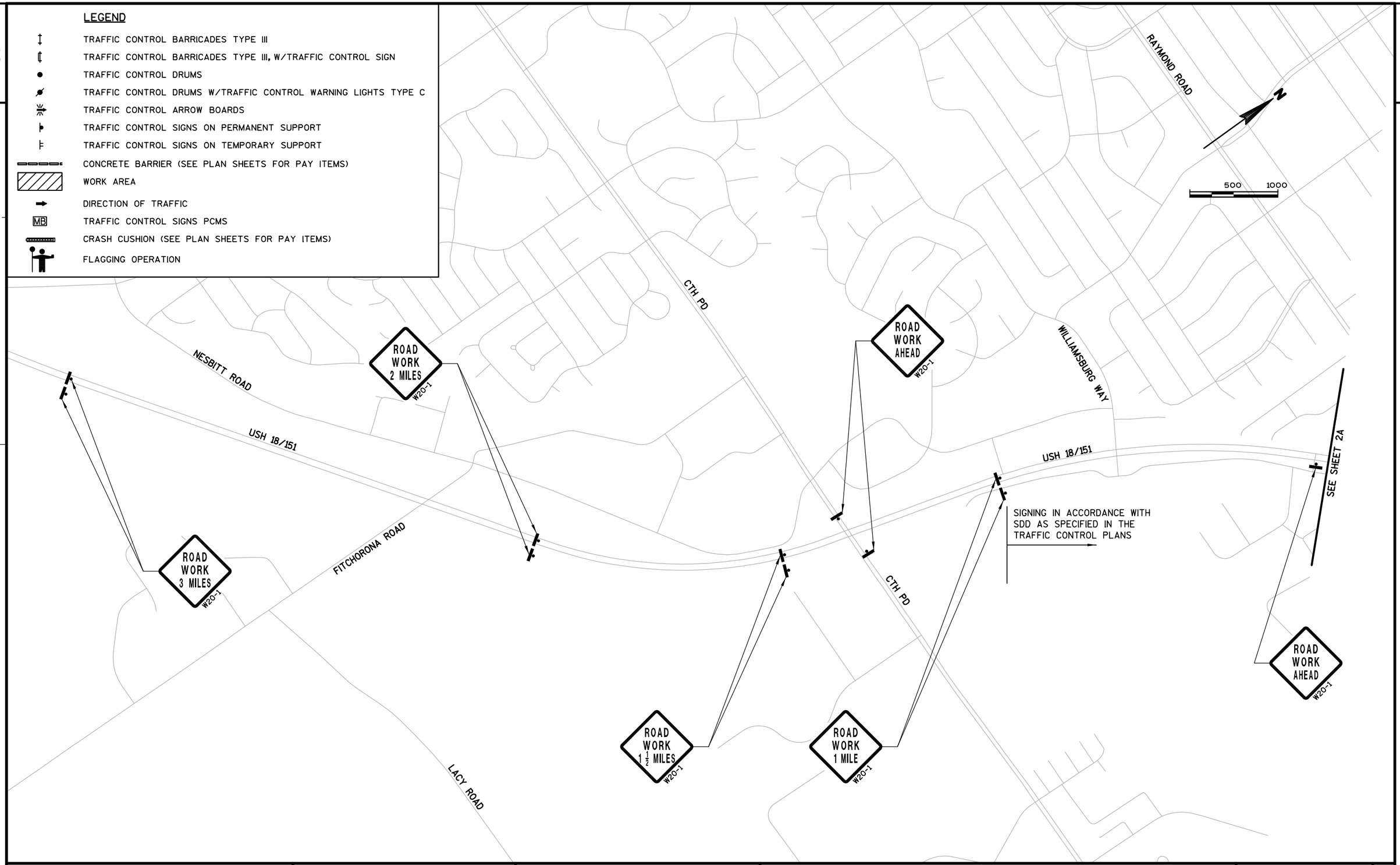
2

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ADVANCED WARNING SIGNING - YEAR ONE CONSTRUCTION - 3A	SHEET 346	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ADVANCED WARNING SIGNING - YEAR ONE CONSTRUCTION - 4A	SHEET 347	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

500 1000

SEE SHEET 2B

SEE BELTLINE THIRD LANE TRAFFIC CONTROL SHEETS FOR ADDITIONAL SIGNING

GAMMON ROAD

FINES DOUBLE IN WORK ZONES — Give 'em a BRAKE SLOW DOWN

W21-62 96" X 48"

ROAD WORK AHEAD W20-1

RAMP

MINERAL POINT ROAD

USH 12/14

OLD SAUK ROAD

ROAD WORK 3 MILES W20-1

ROAD WORK 2 MILES W20-1

ROAD WORK 1 ½ MILES W20-1

HIGH POINT ROAD

USH 12/14

SIGNING IN ACCORDANCE WITH SDD AS SPECIFIED IN THE TRAFFIC CONTROL PLANS

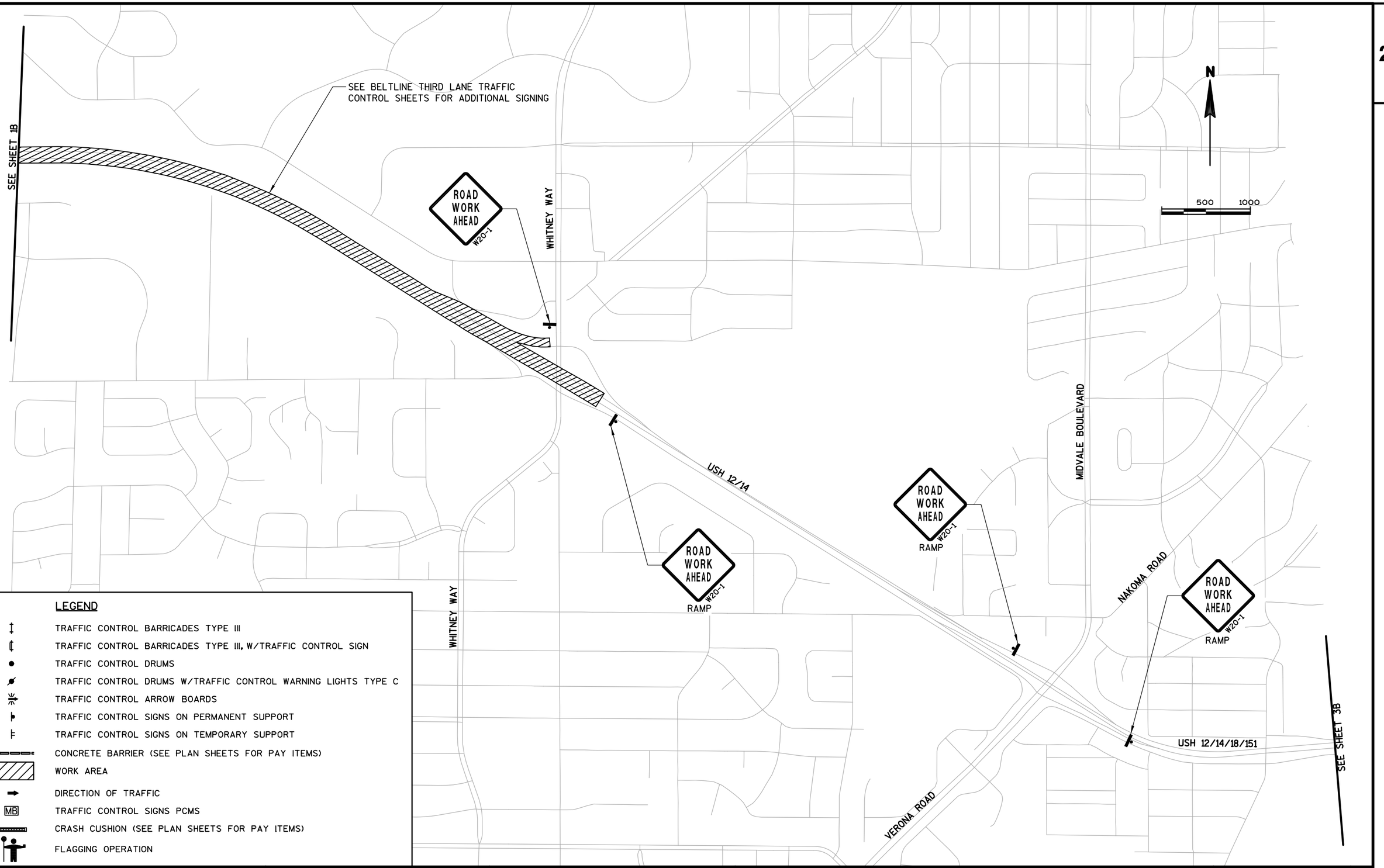
ROAD WORK 1 MILE W20-1

OLD SAUK ROAD

2

PROJECT NO:	HWY: USH 18	COUNTY: DANE	ADVANCED WARNING SIGNING - YEAR TWO CONSTRUCTION - 1B	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\ADVANCE WARNING\023304_aw_2014.dgn PLOT DATE : 2/6/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



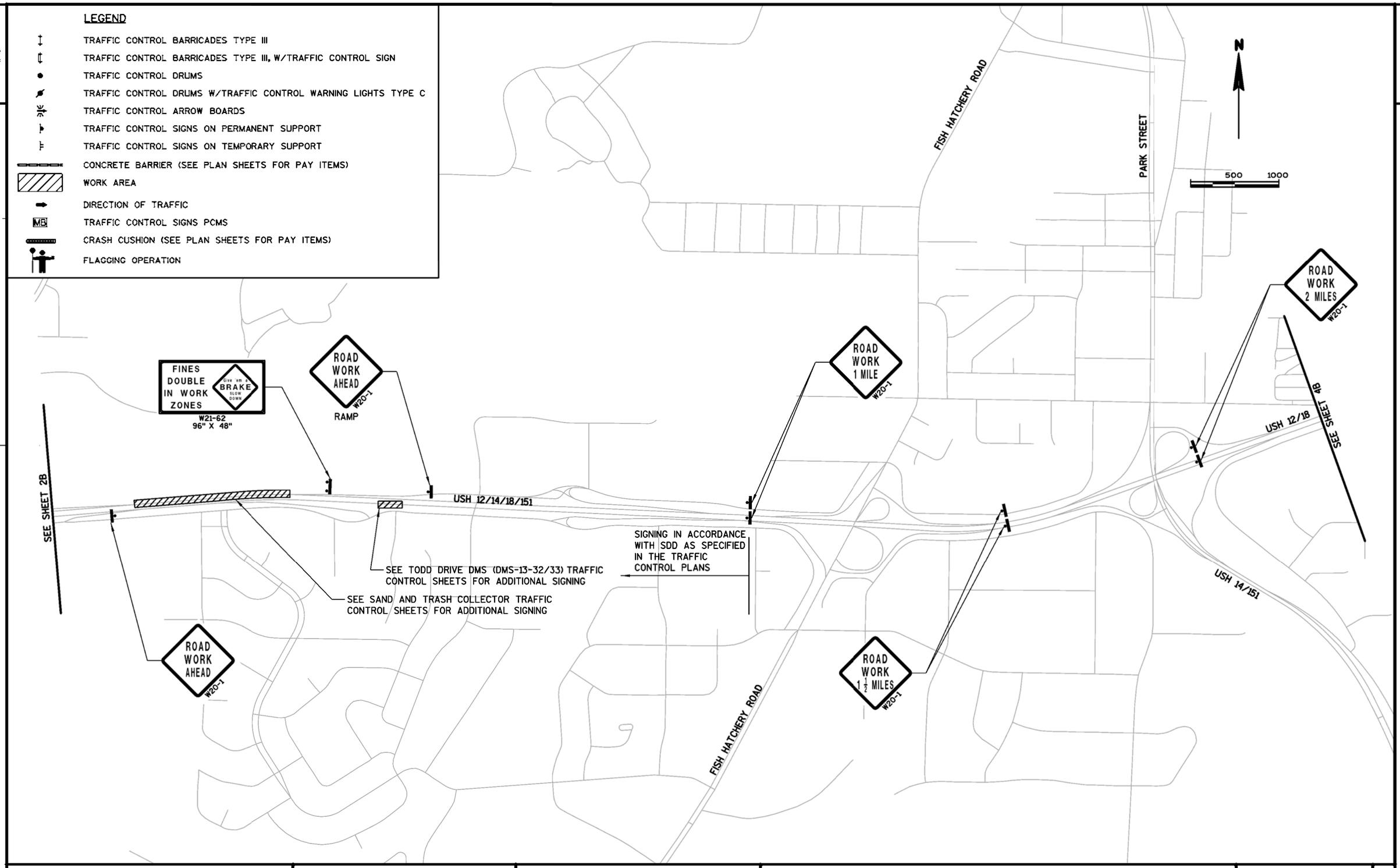
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ADVANCED WARNING SIGNING - YEAR TWO CONSTRUCTION - 2B	SHEET E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\ADVANCE WARNING\023305_aw_2014.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

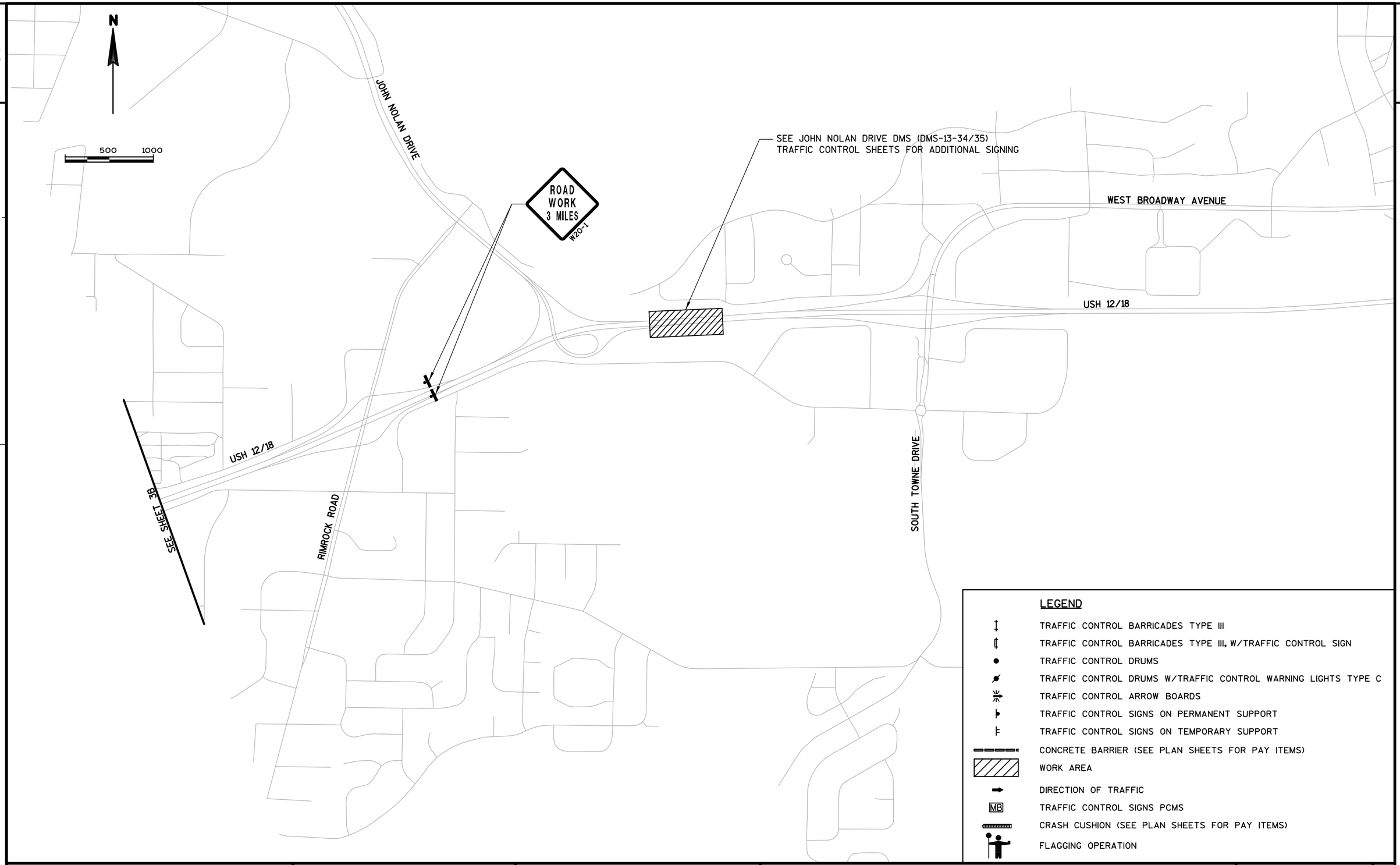
2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

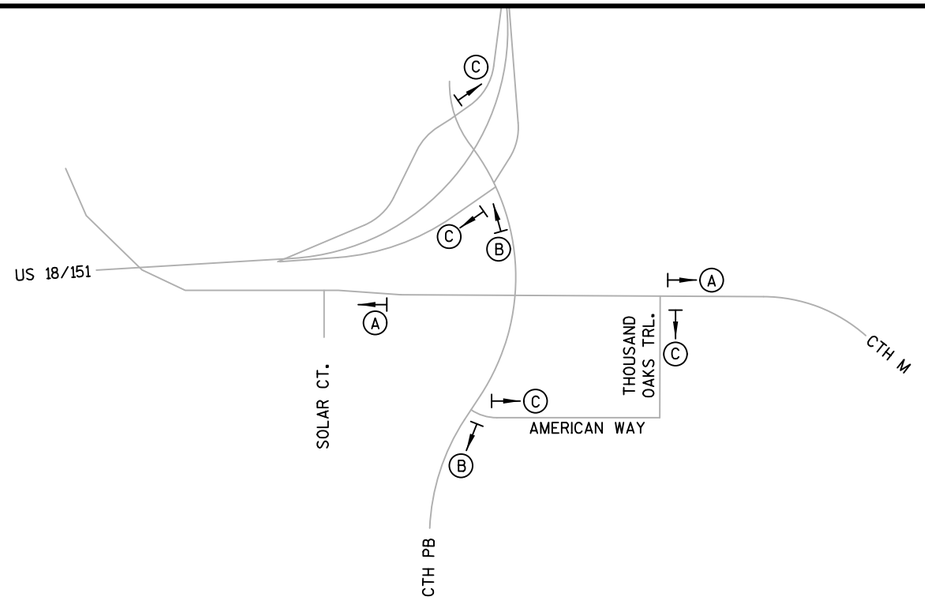


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ADVANCED WARNING SIGNING - YEAR TWO CONSTRUCTION - 3B	SHEET 350	E

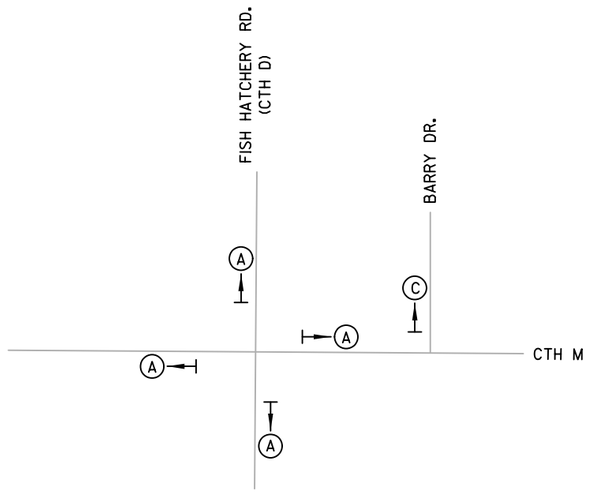


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ADVANCED WARNING SIGNING - YEAR TWO CONSTRUCITON - 4B	SHEET	E

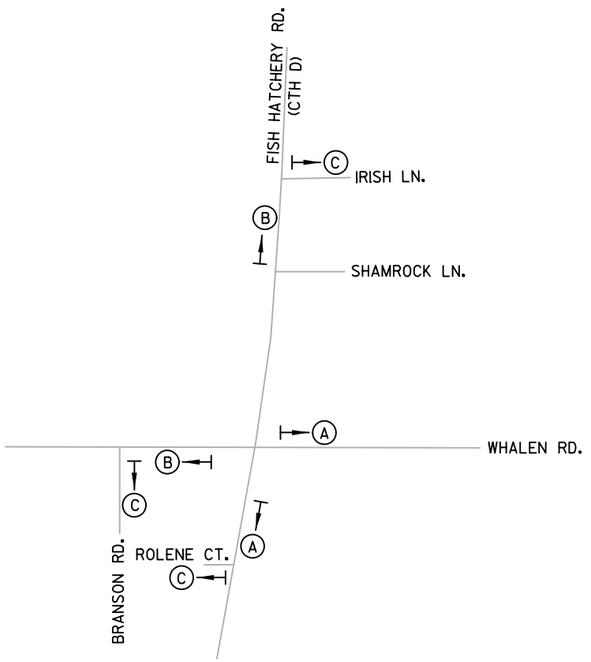
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\ADVANCE WARNING\023307_aw2014.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



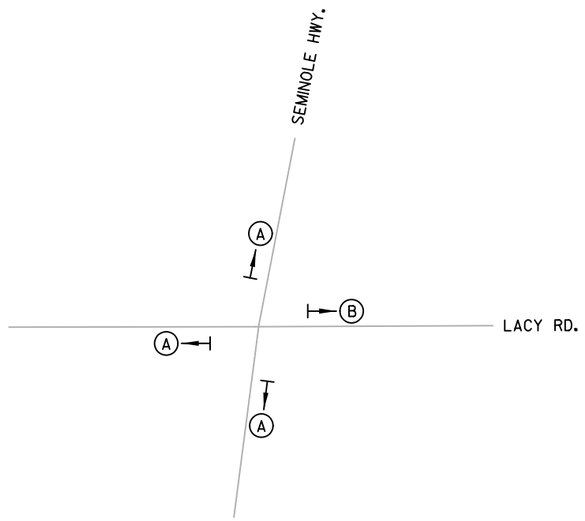
CTH PB AND CTH M



CTH M AND FISH HATCHERY ROAD (CTH D)



FISH HATCHERY ROAD (CTH D) AND WHALEN ROAD



SEMINOLE HIGHWAY AND LACY ROAD

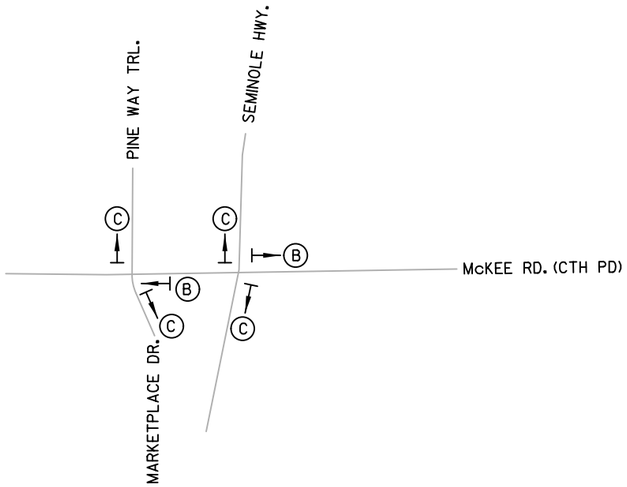
(A) SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADVANCE WARNING SIGNS.

(B) SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADVANCE WARNING SIGNS.

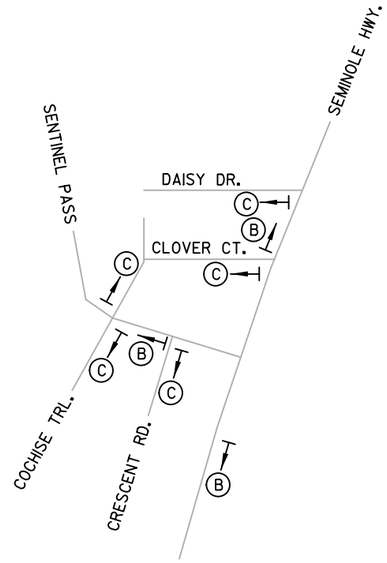
(C) SIGN W20-1 "ROAD WORK AHEAD". SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" OR "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR SIGN LOCATION.

FOR TRAFFIC CONTROL SEE THE PLAN-REHAB./TRAFFIC CONTROL SHEETS

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ADVANCED WARNING SIGNING - INTERSECTION IMPROVEMENTS	SHEET 352	E



SEMINOLE HIGHWAY AND CTH PD (McKEE RD.)



SEMINOLE HIGHWAY AND SENTINEL PASS

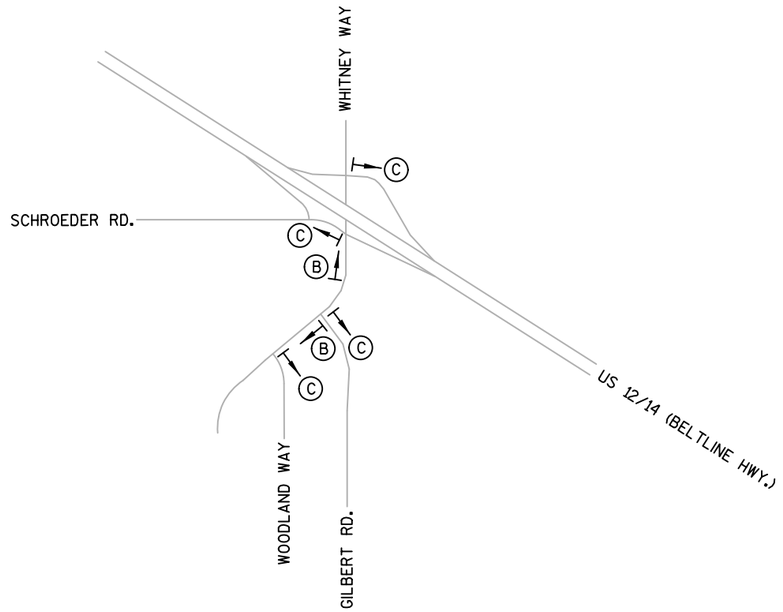
N

(A) SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADVANCE WARNING SIGNS.

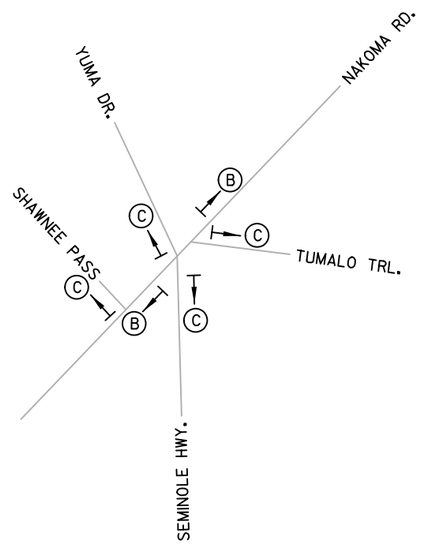
(B) SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR ADVANCE WARNING SIGNS.

(C) SIGN W20-1 "ROAD WORK AHEAD". SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" OR "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR SIGN LOCATION.

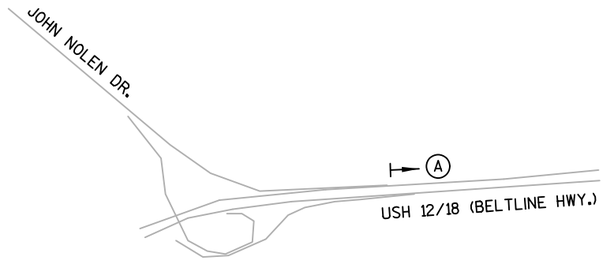
FOR TRAFFIC CONTROL SEE THE PLAN-REHAB./TRAFFIC CONTROL SHEETS



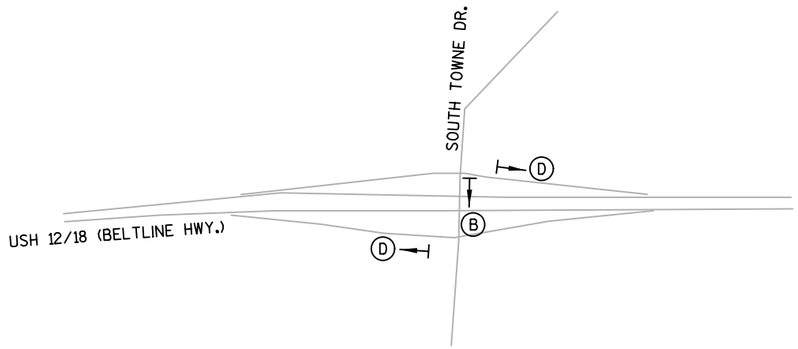
WHITNEY WAY AND GILBERT ROAD



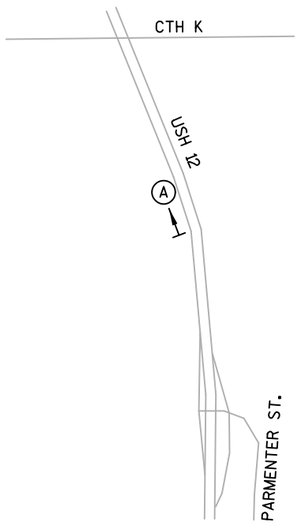
SEMINOLE HIGHWAY/YUMA DRIVE AND NAKOMA ROAD



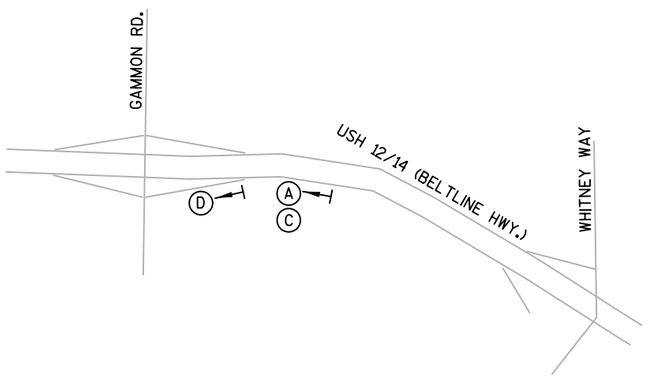
JOHN NOLAN DRIVE CAMERA (CCTV-13-0061)



SOUTH TOWNE DRIVE CAMERA (CCTV-13-0062)



AIRPORT ROAD DMS (DMS-13-0037)



GAMMON ROAD DMS (DMS-13-0031)

N

(A) SEE S.D.D. "TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 45 MPH" FOR MORE INFORMATION.

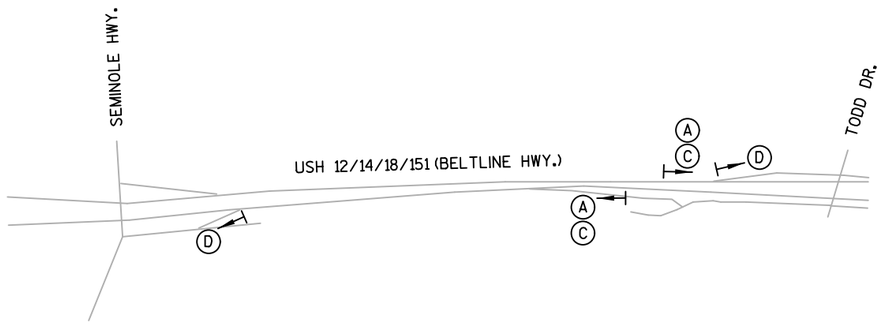
(B) SEE S.D.D. "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY" FOR MORE INFORMATION.

(C) SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H." FOR MORE INFORMATION.

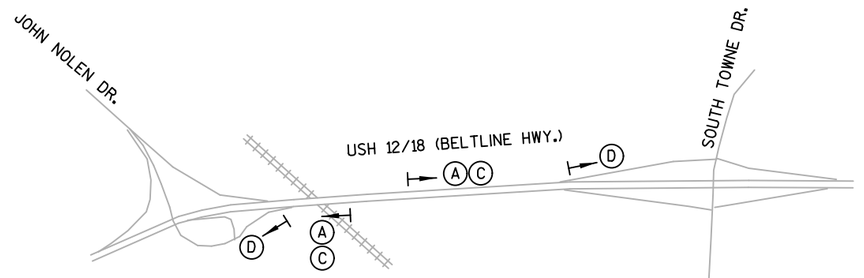
(D) SIGN W20-1 "ROAD WORK AHEAD". SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" OR "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR SIGN LOCATION.

GENERAL NOTES FOR TRAFFIC CONTROL

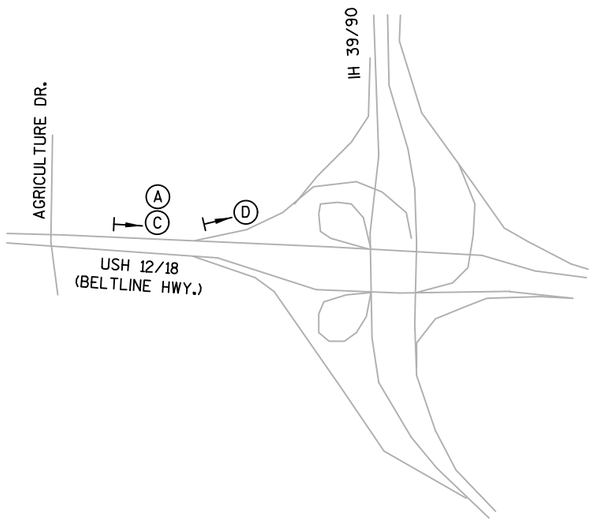
-THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
-DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTORS METHODS OR SEQUENCES OF OPERATION.
-ANY SIGNS, TEMPORARY, EXISTING, OR PERMANENT WHICH CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
-PAVEMENT MARKING WHICH MAY CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
-ROAD MACHINERY, TRUCK ENTRANCE, FLAGMEN AHEAD, ETC., SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED WHEN THE ACTIVITY OR CONDITION DOES NOT EXIST. NO WARNING LIGHT SHALL BE USED WITH A COVERED SIGN.
-"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
-LOCAL ACCESS SHALL BE MAINTAINED AT ALL TIMES.
-TEMPORARY PAVEMENT MARKINGS APPLIED TO FINAL SURFACES SHALL BE REMOVABLE TAPE.
-IMMEDIATELY RE-ESTABLISH "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION.
-DETAILS OF TRAFFIC CONTROL NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



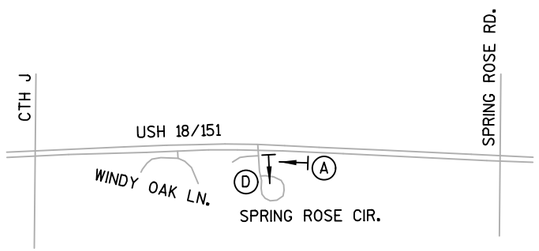
TODD DRIVE DMS (DMS-13-0032/0033)



JOHN NOLEN DRIVE DMS (DMS-13-0034/0035)



MARSH ROAD DMS (DMS-13-0036)



SPRING ROSE CIRCLE PCMS (PCMS-01-1038)

(A) SEE S.D.D. "TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 45 MPH" FOR MORE INFORMATION.

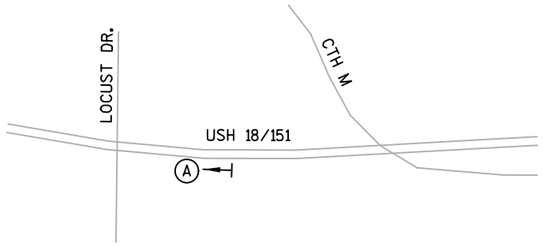
(B) SEE S.D.D. "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY" FOR MORE INFORMATION.

(C) SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H." FOR MORE INFORMATION.

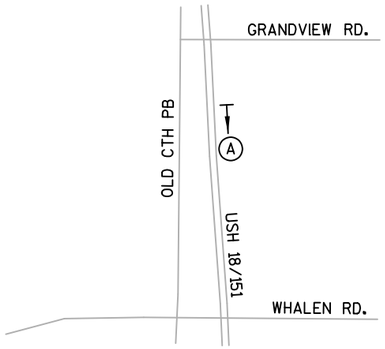
(D) SIGN W20-1 "ROAD WORK AHEAD". SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" OR "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR SIGN LOCATION.

GENERAL NOTES FOR TRAFFIC CONTROL

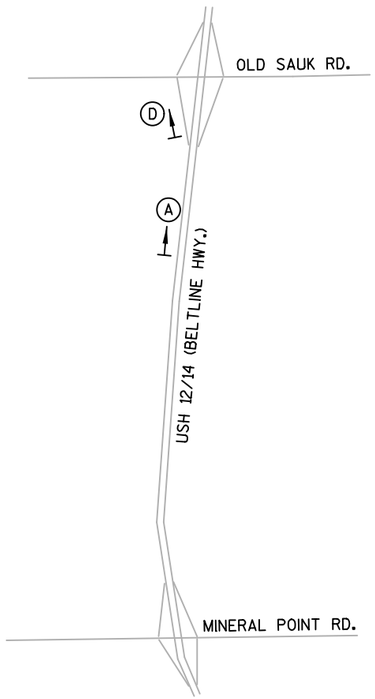
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTORS METHODS OR SEQUENCES OF OPERATION.
- ANY SIGNS, TEMPORARY, EXISTING, OR PERMANENT WHICH CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
- PAVEMENT MARKING WHICH MAY CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
- ROAD MACHINERY, TRUCK ENTRANCE, FLAGMEN AHEAD, ETC., SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED WHEN THE ACTIVITY OR CONDITION DOES NOT EXIST. NO WARNING LIGHT SHALL BE USED WITH A COVERED SIGN.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- LOCAL ACCESS SHALL BE MAINTAINED AT ALL TIMES.
- TEMPORARY PAVEMENT MARKINGS APPLIED TO FINAL SURFACES SHALL BE REMOVABLE TAPE.
- IMMEDIATELY RE-ESTABLISH "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION.
- DETAILS OF TRAFFIC CONTROL NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.



LOCUST DRIVE PCMS (PCMS-13-1039)



GRANDVIEW ROAD PCMS (PCMS-13-1040)



MINERAL POINT ROAD PCMS (PCMS-13-1041)



(A) SEE S.D.D. "TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H." FOR MORE INFORMATION.

(B) SEE S.D.D. "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY" FOR MORE INFORMATION.

(C) SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H." FOR MORE INFORMATION.

(D) SIGN W20-1 "ROAD WORK AHEAD". SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" OR "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" FOR SIGN LOCATION.

GENERAL NOTES FOR TRAFFIC CONTROL

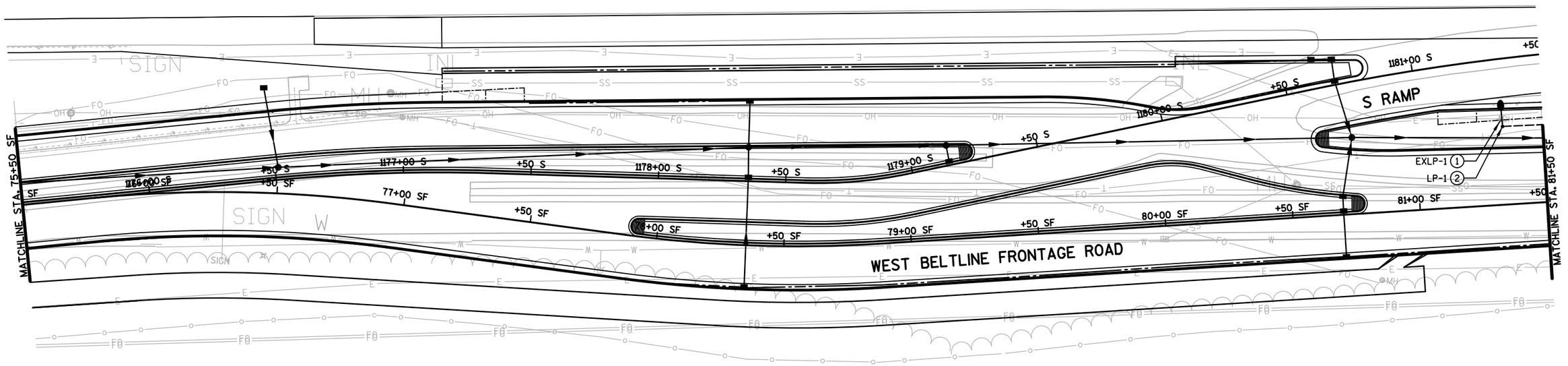
-THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
-DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTORS METHODS OR SEQUENCES OF OPERATION.
-ANY SIGNS, TEMPORARY, EXISTING, OR PERMANENT WHICH CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
-PAVEMENT MARKING WHICH MAY CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
-ROAD MACHINERY, TRUCK ENTRANCE, FLAGMEN AHEAD, ETC., SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED WHEN THE ACTIVITY OR CONDITION DOES NOT EXIST. NO WARNING LIGHT SHALL BE USED WITH A COVERED SIGN.
-"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
-LOCAL ACCESS SHALL BE MAINTAINED AT ALL TIMES.
-TEMPORARY PAVEMENT MARKINGS APPLIED TO FINAL SURFACES SHALL BE REMOVABLE TAPE.
-IMMEDIATELY RE-ESTABLISH "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION.
-DETAILS OF TRAFFIC CONTROL NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

2

WB USH 12/14/18/151 (BELTLINE)

+50 1176+00 +50 1177+00 +50 1178+00 +50 1179+00 +50 1180+00 +50 1181+00

EB USH 12/14/18/151 (BELTLINE)



KEY NOTES

(1) RELOCATE EXISTING LIGHT POLE ASSEMBLY. REMOVE CONCRETE BASE.

(2) CONCRETE BASE TYPE 5 REQUIRED. CONSTRUCT TO BE LEVEL WITH TOP OF CURB OR TOE OF BARRIER WALL.

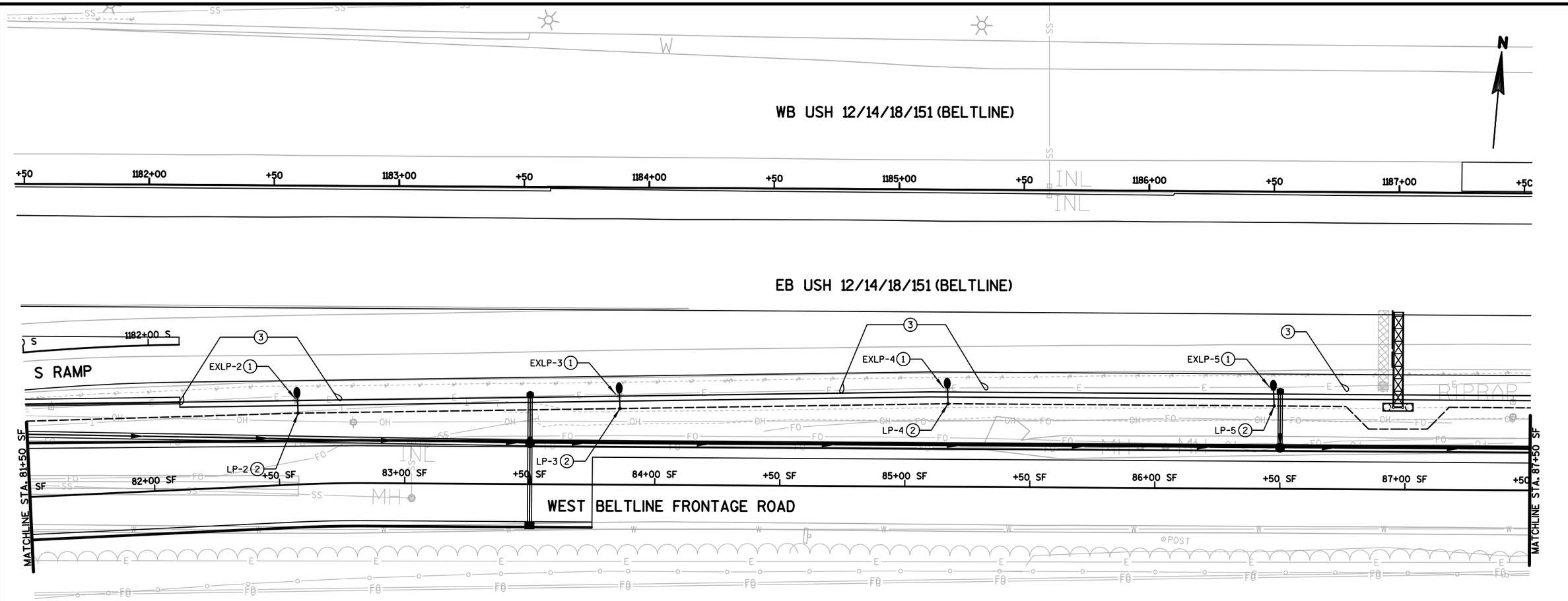
NOTES

1. ALL EXISTING LUMINAIRES ARE 150W, TYPE III DISTRIBUTION, MOUNTED ON 30-FOOT POLES WITH 12-FOOT MAST ARMS.
2. ALL NEW CONDUIT SHALL BE INSTALLED 2-FEET BELOW GRADE AND RUN PARALLEL TO ROADWAY.

LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- LIGHT POLE, ARM MOUNTED LUMINAIRE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	LIGHTING - WEST BELTLINE FRONTAGE ROAD	SHEET 357	E



KEY NOTES

(1) RELOCATE EXISTING LIGHT POLE ASSEMBLY. REMOVE CONCRETE BASE.

(2) CONCRETE BASE TYPE 5 REQUIRED. CONSTRUCT TO BE LEVEL WITH TOP OF CURB OR TOE OF BARRIER WALL.

(3) REMOVE EXISTING WIRING AND ABANDON CONDUIT. WORK IS INCLUDED IN BID ITEM FOR RELOCATE EXISTING LIGHT POLE ASSEMBLY.

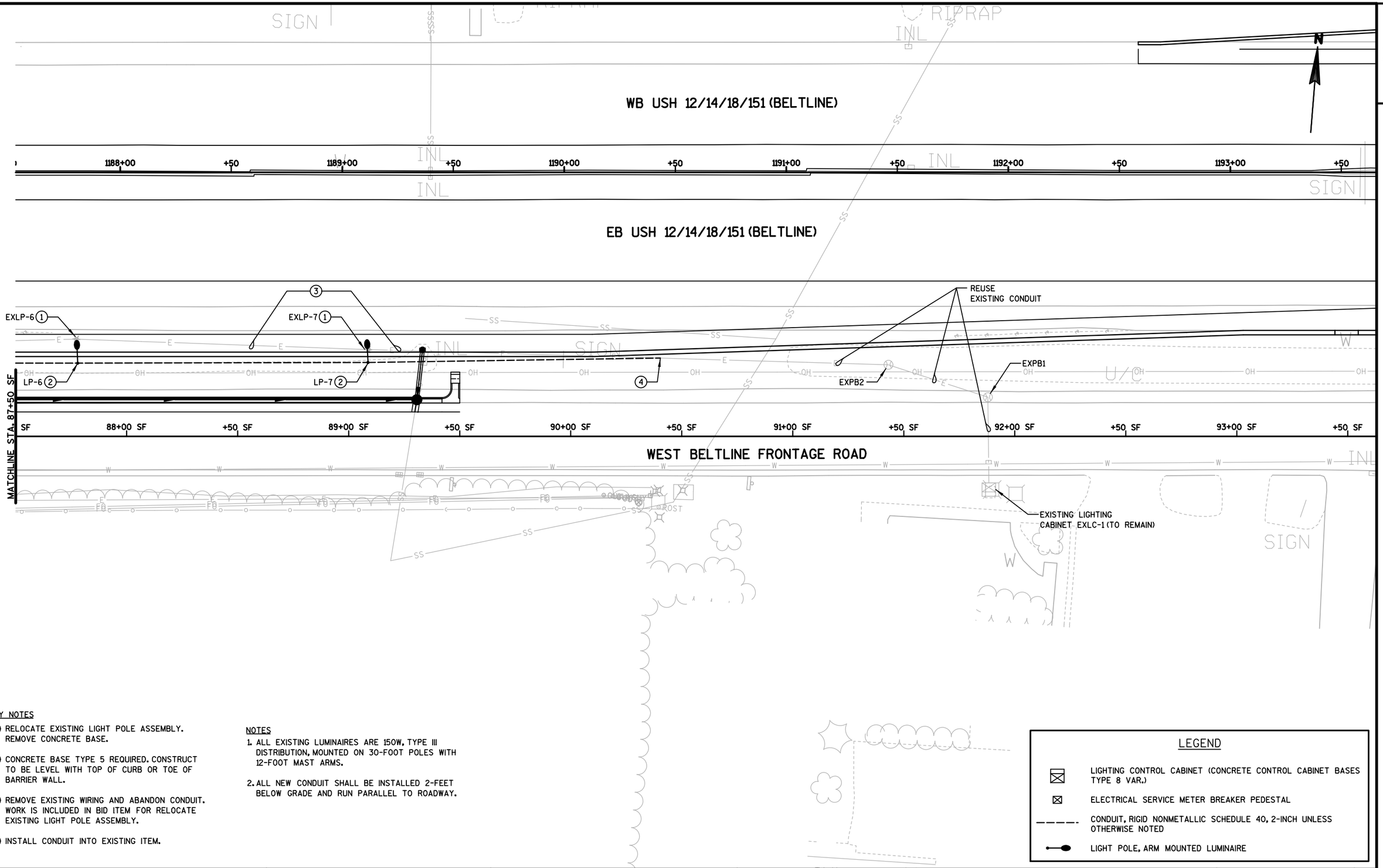
NOTES

1. ALL EXISTING LUMINAIRES ARE 150W, TYPE III DISTRIBUTION, MOUNTED ON 30-FOOT POLES WITH 12-FOOT MAST ARMS.
2. ALL NEW CONDUIT SHALL BE INSTALLED 2-FEET BELOW GRADE AND RUN PARALLEL TO ROADWAY.

LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- LIGHT POLE, ARM MOUNTED LUMINAIRE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	LIGHTING - WEST BELTLINE FRONTAGE ROAD	SHEET 358	E



KEY NOTES

(1) RELOCATE EXISTING LIGHT POLE ASSEMBLY. REMOVE CONCRETE BASE.

(2) CONCRETE BASE TYPE 5 REQUIRED. CONSTRUCT TO BE LEVEL WITH TOP OF CURB OR TOE OF BARRIER WALL.

(3) REMOVE EXISTING WIRING AND ABANDON CONDUIT. WORK IS INCLUDED IN BID ITEM FOR RELOCATE EXISTING LIGHT POLE ASSEMBLY.

(4) INSTALL CONDUIT INTO EXISTING ITEM.

NOTES

1. ALL EXISTING LUMINAIRES ARE 150W, TYPE III DISTRIBUTION, MOUNTED ON 30-FOOT POLES WITH 12-FOOT MAST ARMS.

2. ALL NEW CONDUIT SHALL BE INSTALLED 2-FEET BELOW GRADE AND RUN PARALLEL TO ROADWAY.

LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- LIGHT POLE, ARM MOUNTED LUMINAIRE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	LIGHTING - WEST BELTLINE FRONTAGE ROAD	SHEET 359	E

KEY NOTES

(1) REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY. REMOVE CONCRETE BASE.

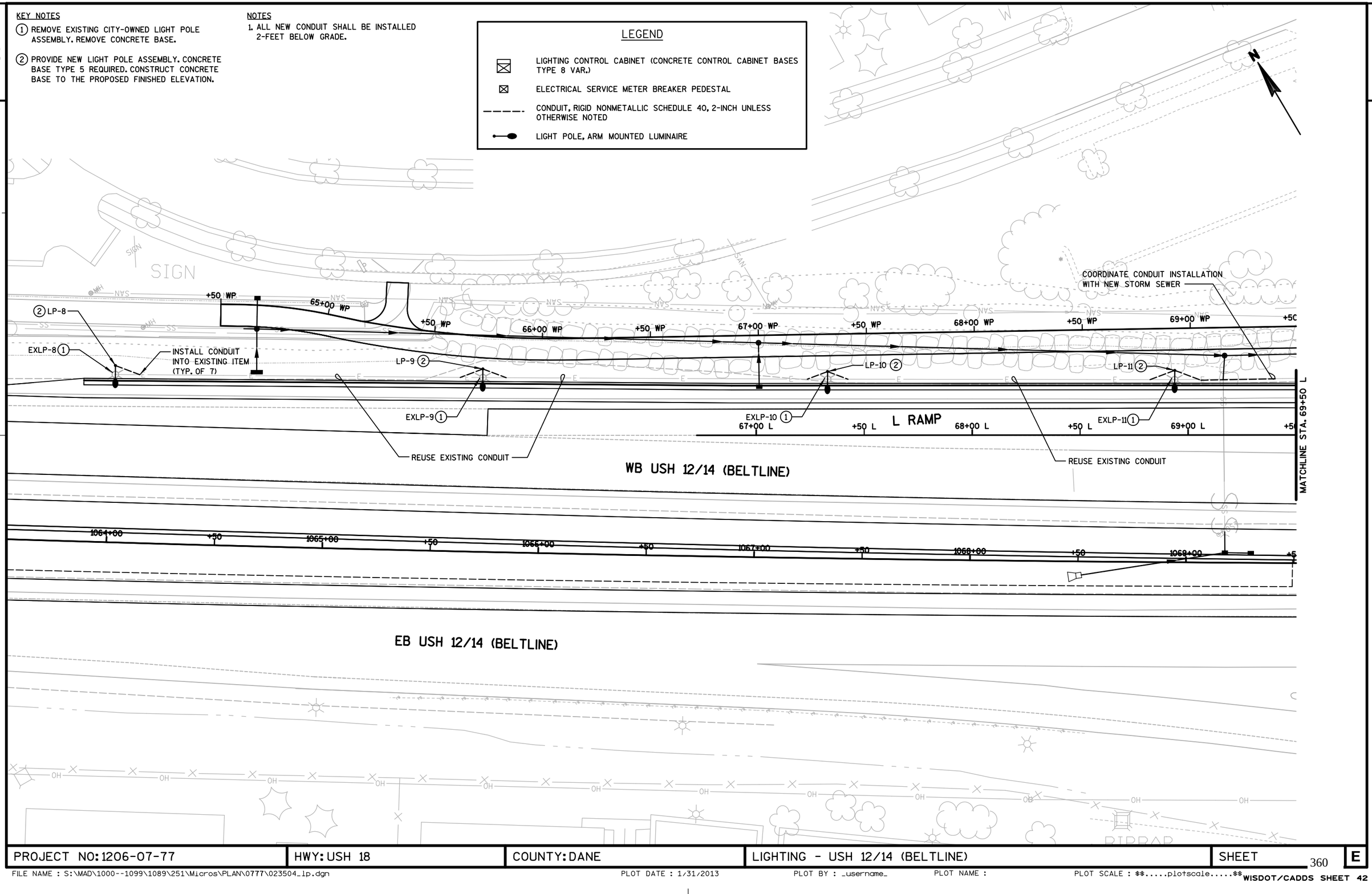
(2) PROVIDE NEW LIGHT POLE ASSEMBLY. CONCRETE BASE TYPE 5 REQUIRED. CONSTRUCT CONCRETE BASE TO THE PROPOSED FINISHED ELEVATION.

NOTES

1. ALL NEW CONDUIT SHALL BE INSTALLED 2-FEET BELOW GRADE.

LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- LIGHT POLE, ARM MOUNTED LUMINAIRE



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	LIGHTING - USH 12/14 (BELTLINE)	SHEET 360	E

KEY NOTES

(1) REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY. REMOVE CONCRETE BASE.

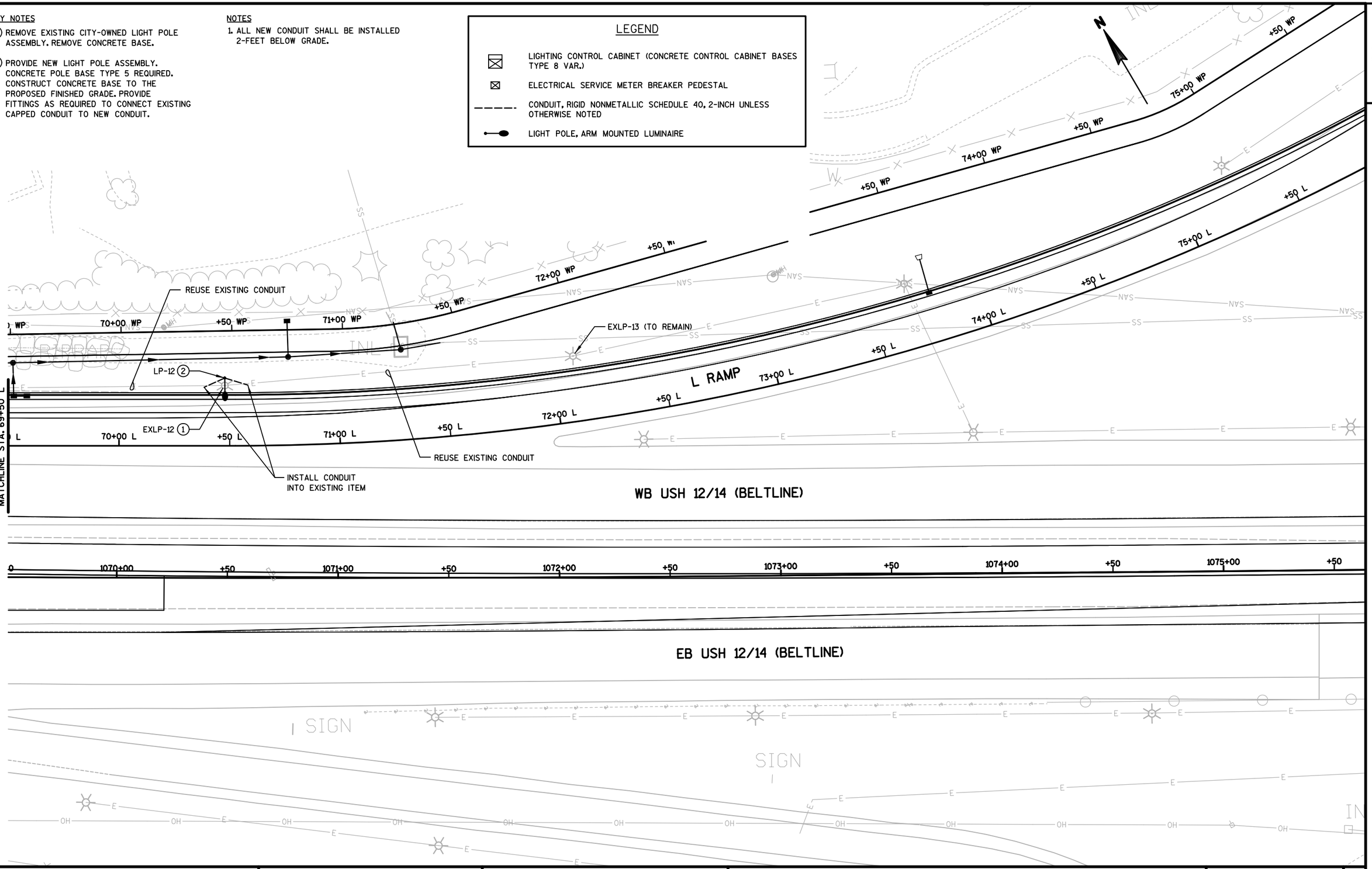
(2) PROVIDE NEW LIGHT POLE ASSEMBLY. CONCRETE POLE BASE TYPE 5 REQUIRED. CONSTRUCT CONCRETE BASE TO THE PROPOSED FINISHED GRADE. PROVIDE FITTINGS AS REQUIRED TO CONNECT EXISTING CAPPED CONDUIT TO NEW CONDUIT.

NOTES

1. ALL NEW CONDUIT SHALL BE INSTALLED 2-FEET BELOW GRADE.

LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- LIGHT POLE, ARM MOUNTED LUMINAIRE



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	LIGHTING - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023505_lp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- LIGHT POLE, ARM MOUNTED LUMINAIRE

EXLP-14

REMOVE EXISTING WISDOT-OWNED LIGHT POLE ASSEMBLY. REMOVE CONCRETE BASE.

EXLP-15 (TO REMAIN)

EXLP-16 (TO REMAIN)

WB USH 12/14/18/151 (BELTLINE)

1123+00 +50 1124+00 +50 1125+00 +50 1126+00 +50 1127+00 +50 1128+00 +50

EB USH 12/14/18/151 (BELTLINE)

REMOVE EXISTING WISDOT-OWNED LIGHT POLE ASSEMBLY. REMOVE CONCRETE BASE.

EXLP-25

EXLP-26 (TO REMAIN)

KEY NOTES

(1) REMOVE EXISTING WIRING BACK TO REMAINING LIGHT POLE AND ABANDON CONDUIT. WORK IS INCLUDED IN BID ITEM FOR REMOVE EXISTING WISDOT-OWNED LIGHT POLE ASSEMBLY.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	LIGHTING - WB USH 12/14/18/151, WEST VERONA RD FRONTAGE RD	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023506_lp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- LIGHT POLE, ARM MOUNTED LUMINAIRE

KEY NOTES

(1) RELOCATE EXISTING LIGHT POLE ASSEMBLY. REMOVE CONCRETE POLE BASE.

(2) CONCRETE BASE TYPE 5 REQUIRED. INSTALL CONDUIT INTO EXISTING ITEM.

(3) REMOVE EXISTING WIRING AND ABANDON CONDUIT AS SHOWN. WORK IS INCLUDED IN BID ITEM FOR RELOCATE EXISTING LIGHT POLE ASSEMBLY.

(4) REMOVE EXISTING PARKING LOT LIGHT POLE ASSEMBLY. WORK IS INCLUDED IN COST-TO-CURE.

EXLP-17 (1)
LP-13 (2)
EXLP-30 (4)
EXLP-29 (4)
EXLP-28 (4)
EXLP-27 (4)
EXLP-32 (TO REMAIN)
EXLP-31 (TO REMAIN)
EXLP-33 (TO REMAIN)
EXPB-3
(3)
20+00 FP
+50 FP
21+00 FP
WEST VERONA ROAD FRONTAGE ROAD
WB USH 18/151 (VERONA ROAD)
+50 VR
978+00 VR
979+00 VR
980+00 VR
981+00 VR
982+00 VR
983+00 VR

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	LIGHTING - WEST VERONA RD FRONTAGE RD, DETENTION BASIN A	SHEET 363 E

2

SUMMIT ROAD

REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY. REMOVE CONCRETE BASE.

EXLP-34

1

EXLP-35 (TO REMAIN)

WB USH 18/151 (VERONA ROAD)

987+00 VR | +50 VR | 988+00 VR | +50 VR | 989+00 VR | +50 VR | 990+00 VR | +50 VR | 991+00 VR | +50 VR | 992+00 VR | +50 VR | 993+00 VR

EB USH 18/151 (VERONA ROAD)

LEGEND

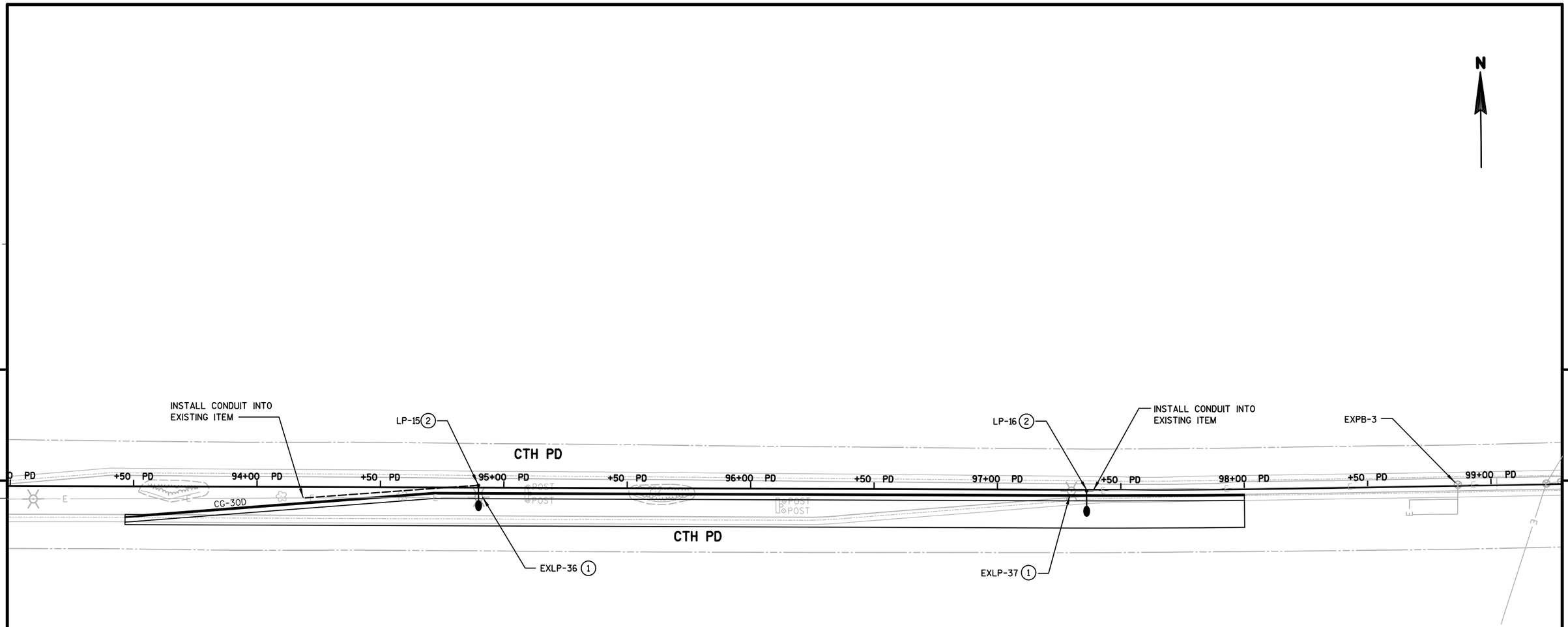
- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- LIGHT POLE, ARM MOUNTED LUMINAIRE

KEY NOTES

(1) REMOVE EXISTING WIRING BACK TO EXLP-35 AND ABANDON CONDUIT. WORK IS INCLUDED IN BID ITEM FOR REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	LIGHTING - WB USH 18/151	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023508_lp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



KEY NOTES

(1) RELOCATE EXISTING LIGHT POLE ASSEMBLY. REMOVE CONCRETE BASE.

(2) CONCRETE BASE TYPE 5. CONSTRUCT TO BE LEVEL WITH TOP OF CURB.

NOTES

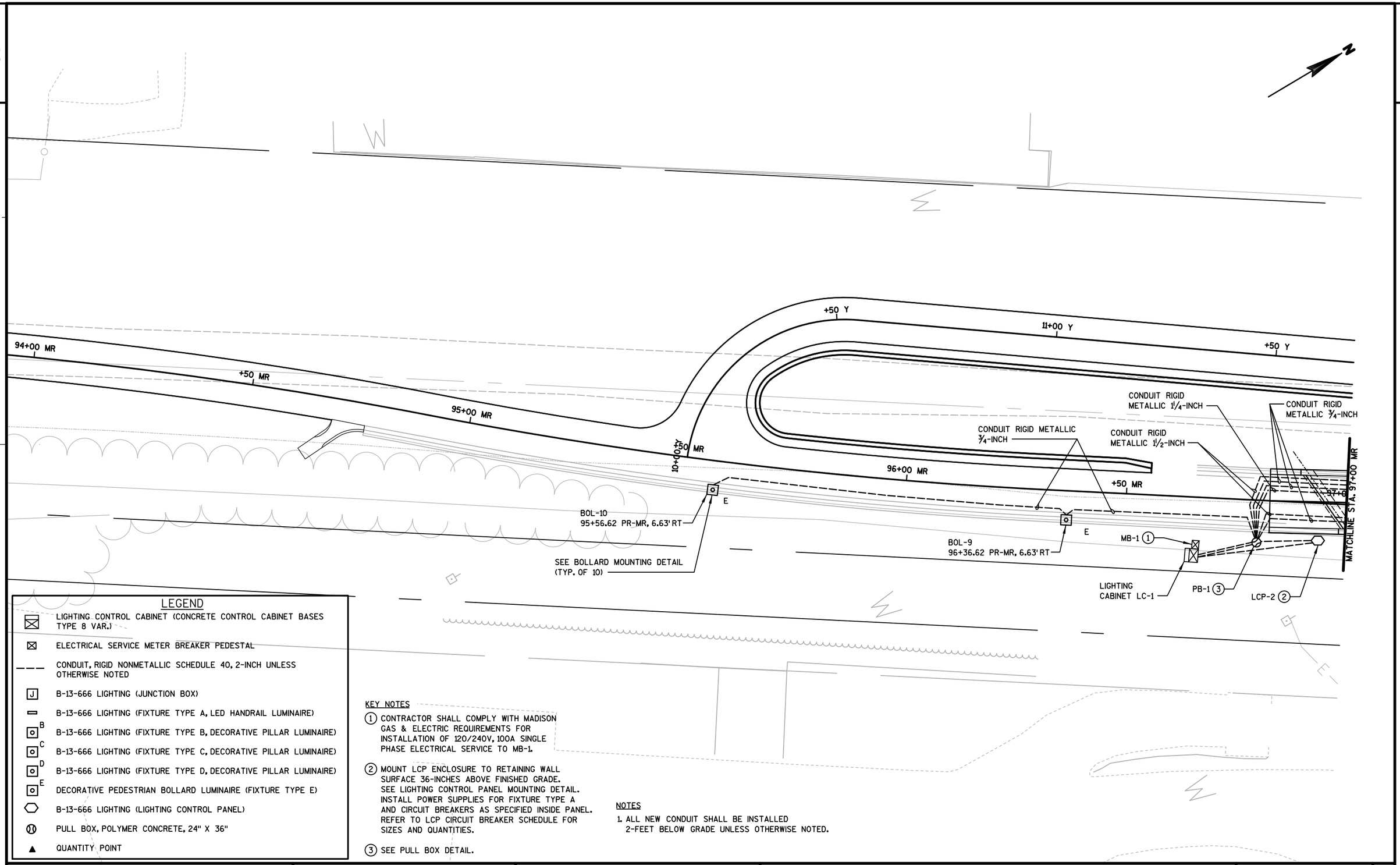
1. ALL NEW CONDUIT SHALL BE INSTALLED 2-FEET BELOW GRADE UNLESS OTHERWISE NOTED.

LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- LIGHT POLE, ARM MOUNTED LUMINAIRE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	LIGHTING - CTH PD AT SEMINOLE HIGHWAY	SHEET 365	E

2



LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- [J] B-13-666 LIGHTING (JUNCTION BOX)
- B-13-666 LIGHTING (FIXTURE TYPE A, LED HANDRAIL LUMINAIRE)
- [B] B-13-666 LIGHTING (FIXTURE TYPE B, DECORATIVE PILLAR LUMINAIRE)
- [C] B-13-666 LIGHTING (FIXTURE TYPE C, DECORATIVE PILLAR LUMINAIRE)
- [D] B-13-666 LIGHTING (FIXTURE TYPE D, DECORATIVE PILLAR LUMINAIRE)
- [E] DECORATIVE PEDESTRIAN BOLLARD LUMINAIRE (FIXTURE TYPE E)
- B-13-666 LIGHTING (LIGHTING CONTROL PANEL)
- PULL BOX, POLYMER CONCRETE, 24" X 36"
- ▲ QUANTITY POINT

KEY NOTES

(1) CONTRACTOR SHALL COMPLY WITH MADISON GAS & ELECTRIC REQUIREMENTS FOR INSTALLATION OF 120/240V, 100A SINGLE PHASE ELECTRICAL SERVICE TO MB-1.

(2) MOUNT LCP ENCLOSURE TO RETAINING WALL SURFACE 36-INCHES ABOVE FINISHED GRADE. SEE LIGHTING CONTROL PANEL MOUNTING DETAIL. INSTALL POWER SUPPLIES FOR FIXTURE TYPE A AND CIRCUIT BREAKERS AS SPECIFIED INSIDE PANEL. REFER TO LCP CIRCUIT BREAKER SCHEDULE FOR SIZES AND QUANTITIES.

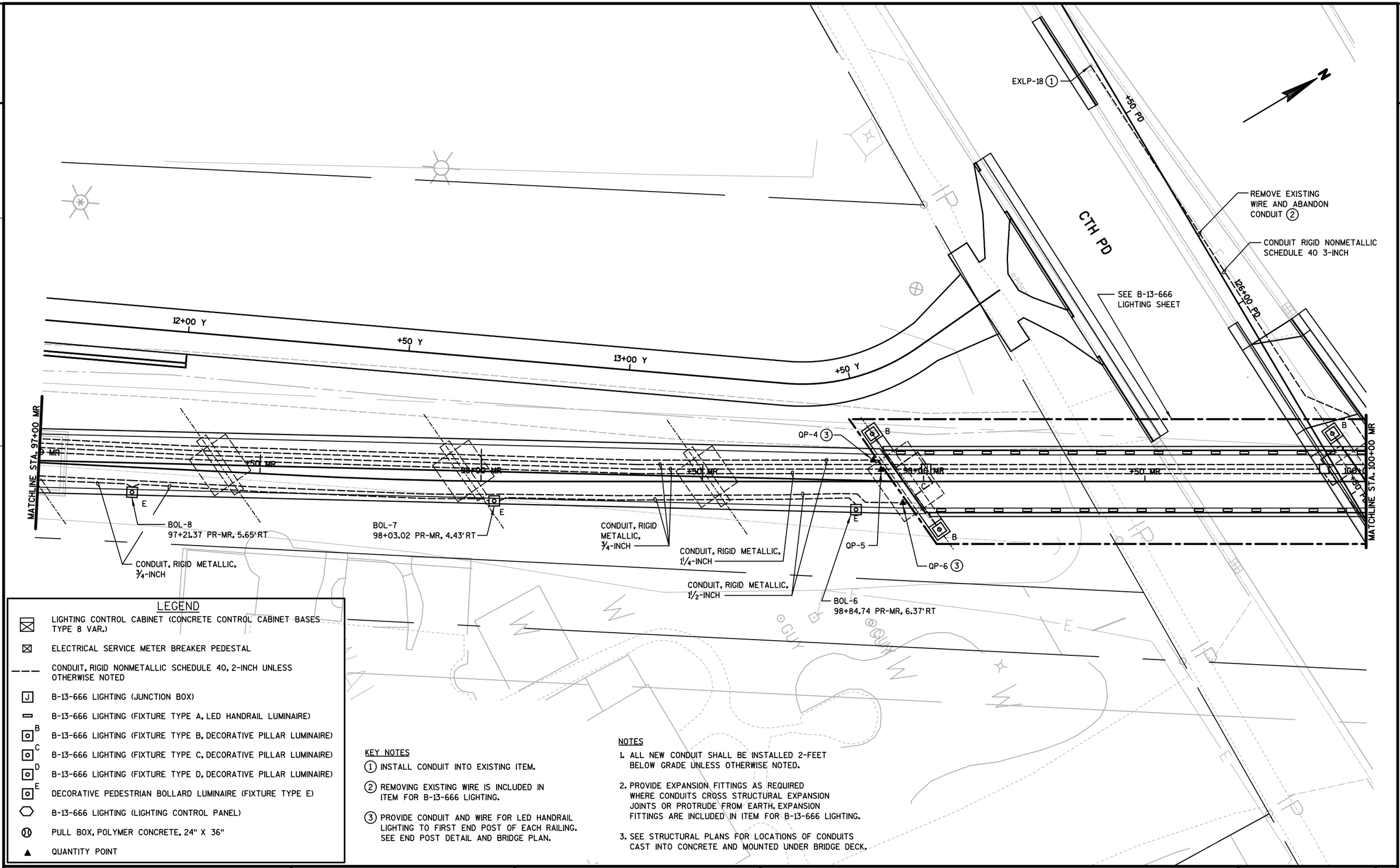
(3) SEE PULL BOX DETAIL.

NOTES

1. ALL NEW CONDUIT SHALL BE INSTALLED 2-FEET BELOW GRADE UNLESS OTHERWISE NOTED.

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	LIGHTING - MILITARY RIDGE PATH	SHEET 366	E

2



LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- B-13-666 LIGHTING (JUNCTION BOX)
- B-13-666 LIGHTING (FIXTURE TYPE A, LED HANDRAIL LUMINAIRE)
- B-13-666 LIGHTING (FIXTURE TYPE B, DECORATIVE PILLAR LUMINAIRE)
- B-13-666 LIGHTING (FIXTURE TYPE C, DECORATIVE PILLAR LUMINAIRE)
- B-13-666 LIGHTING (FIXTURE TYPE D, DECORATIVE PILLAR LUMINAIRE)
- DECORATIVE PEDESTRIAN BOLLARD LUMINAIRE (FIXTURE TYPE E)
- B-13-666 LIGHTING (LIGHTING CONTROL PANEL)
- PULL BOX, POLYMER CONCRETE, 24" X 36"
- QUANTITY POINT

KEY NOTES

(1) INSTALL CONDUIT INTO EXISTING ITEM.

(2) REMOVING EXISTING WIRE IS INCLUDED IN ITEM FOR B-13-666 LIGHTING.

(3) PROVIDE CONDUIT AND WIRE FOR LED HANDRAIL LIGHTING TO FIRST END POST OF EACH RAILING. SEE END POST DETAIL AND BRIDGE PLAN.

NOTES

1. ALL NEW CONDUIT SHALL BE INSTALLED 2-FEET BELOW GRADE UNLESS OTHERWISE NOTED.
2. PROVIDE EXPANSION FITTINGS AS REQUIRED WHERE CONDUITS CROSS STRUCTURAL EXPANSION JOINTS OR PROTRUDE FROM EARTH. EXPANSION FITTINGS ARE INCLUDED IN ITEM FOR B-13-666 LIGHTING.
3. SEE STRUCTURAL PLANS FOR LOCATIONS OF CONDUITS CAST INTO CONCRETE AND MOUNTED UNDER BRIDGE DECK.

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	LIGHTING - MILITARY RIDGE PATH	SHEET 367	E

NOTES

1. ALL NEW CONDUIT SHALL BE INSTALLED 2-FEET BELOW GRADE UNLESS OTHERWISE NOTED.

LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- B-13-666 LIGHTING (JUNCTION BOX)
- B-13-666 LIGHTING (FIXTURE TYPE A, LED HANDRAIL LUMINAIRE)
- B-13-666 LIGHTING (FIXTURE TYPE B, DECORATIVE PILLAR LUMINAIRE)
- B-13-666 LIGHTING (FIXTURE TYPE C, DECORATIVE PILLAR LUMINAIRE)
- B-13-666 LIGHTING (FIXTURE TYPE D, DECORATIVE PILLAR LUMINAIRE)
- DECORATIVE PEDESTRIAN BOLLARD LUMINAIRE (FIXTURE TYPE E)
- B-13-666 LIGHTING (LIGHTING CONTROL PANEL)
- PULL BOX, POLYMER CONCRETE, 24" X 36"
- QUANTITY POINT

N

CONDUIT, RIGID METALLIC, ¾-INCH

BOL-2
103+64.80 PR-MR, 6.63' LT

BOL-1
104+44.80 PR-MR, 6.63' LT

MATCHLINE STA. 103+00 MR

0 MR

+50 MR

104+00 MR

+50 MR

105+00 MR

+50 MR

106+00 MR

+50 Z

9+00 Z

+50 Z

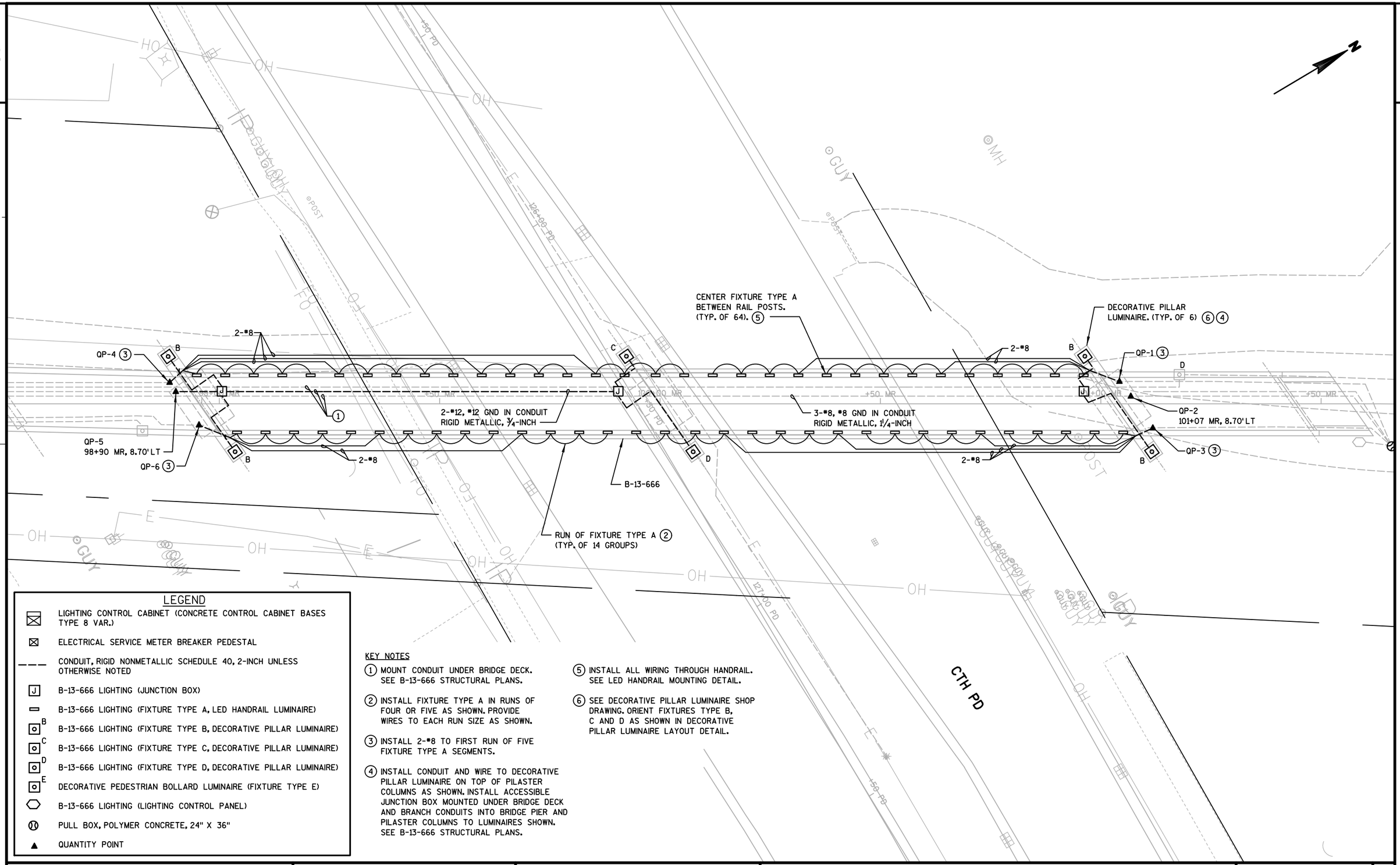
MH

POST

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	LIGHTING - MILITARY RIDGE PATH	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023513_lp.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



LEGEND

- LIGHTING CONTROL CABINET (CONCRETE CONTROL CABINET BASES TYPE 8 VAR.)
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- J — B-13-666 LIGHTING (JUNCTION BOX)
- B-13-666 LIGHTING (FIXTURE TYPE A, LED HANDRAIL LUMINAIRE)
- B — B-13-666 LIGHTING (FIXTURE TYPE B, DECORATIVE PILLAR LUMINAIRE)
- C — B-13-666 LIGHTING (FIXTURE TYPE C, DECORATIVE PILLAR LUMINAIRE)
- D — B-13-666 LIGHTING (FIXTURE TYPE D, DECORATIVE PILLAR LUMINAIRE)
- E — DECORATIVE PEDESTRIAN BOLLARD LUMINAIRE (FIXTURE TYPE E)
- B-13-666 LIGHTING (LIGHTING CONTROL PANEL)
- PULL BOX, POLYMER CONCRETE, 24" X 36"
- ▲ QUANTITY POINT

KEY NOTES

(1) MOUNT CONDUIT UNDER BRIDGE DECK. SEE B-13-666 STRUCTURAL PLANS.

(2) INSTALL FIXTURE TYPE A IN RUNS OF FOUR OR FIVE AS SHOWN. PROVIDE WIRES TO EACH RUN SIZE AS SHOWN.

(3) INSTALL 2-#8 TO FIRST RUN OF FIVE FIXTURE TYPE A SEGMENTS.

(4) INSTALL CONDUIT AND WIRE TO DECORATIVE PILLAR LUMINAIRE ON TOP OF PILASTER COLUMNS AS SHOWN. INSTALL ACCESSIBLE JUNCTION BOX MOUNTED UNDER BRIDGE DECK AND BRANCH CONDUITS INTO BRIDGE PIER AND PILASTER COLUMNS TO LUMINAIRES SHOWN. SEE B-13-666 STRUCTURAL PLANS.

(5) INSTALL ALL WIRING THROUGH HANDRAIL. SEE LED HANDRAIL MOUNTING DETAIL.

(6) SEE DECORATIVE PILLAR LUMINAIRE SHOP DRAWING. ORIENT FIXTURES TYPE B, C AND D AS SHOWN IN DECORATIVE PILLAR LUMINAIRE LAYOUT DETAIL.

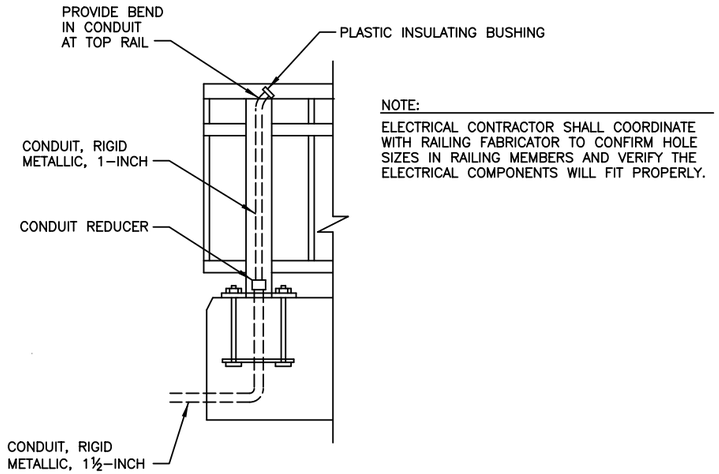
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	LIGHTING - MILITARY RIDGE PATH - B-13-666 LIGHTING	SHEET 369	E

LIGHTING PANEL LP-1

Service:	120/240V, 1φ, 3W			Enclosure: NEMA 4				Mounting:			Surface
Main Breaker:	100A							Main Bus:			Copper
Location:	Lighting Cabinet LC-1							SCIC:			10 kAIC
Description	**Amps**	**Poles**	**Cct. #**	**Phase A**	**Phase B**	**Phase A**	**Phase B**	**Cct. #**	**Amps**	**Poles**	**Description**
LCP-1	30	2	1	500		500		2	30	2	LCP-2
			3		500		500	4			
BOLLARDS - NORTH	20	1	5	120		1100		6	20	1	ENCLOSURE LIGHT, RECEPTACLE
BOLLARDS - SOUTH	20	1	7		120		1000	8	20	1	CONTROL, CONTACTOR C1
SPACE		1	9	0		0		10		1	SPACE
SPACE		1	11		0		0	12		1	SPACE
Total Load per Phase per Side (VA)				620	620	1600	1500				

Total Load Phase A (VA)	2220	VA
Total Load Phase B (VA)	2120	VA
Total Connected Load (VA)	4340	VA

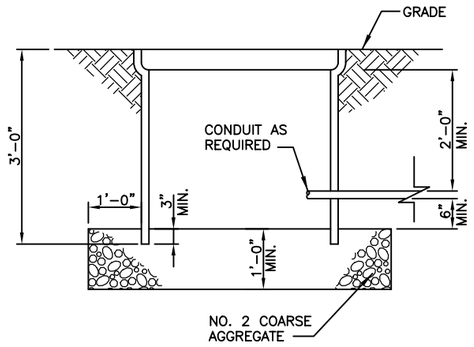
Total Connected Load (A)	18	A
Total Connected Load + 25%	23	A
Spare 25%	6	A
Feeder Load	28	A



NOTE:

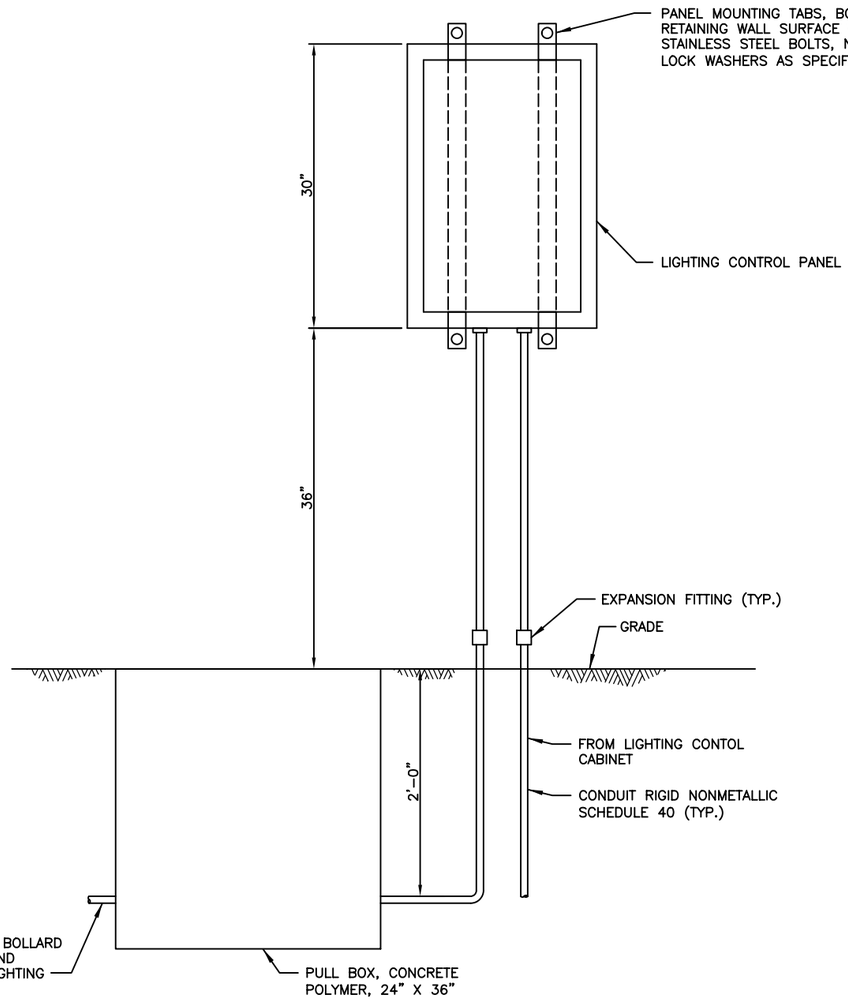
ELECTRICAL CONTRACTOR SHALL COORDINATE WITH RAILING FABRICATOR TO CONFIRM HOLE SIZES IN RAILING MEMBERS AND VERIFY THE ELECTRICAL COMPONENTS WILL FIT PROPERLY.

END POST DETAIL

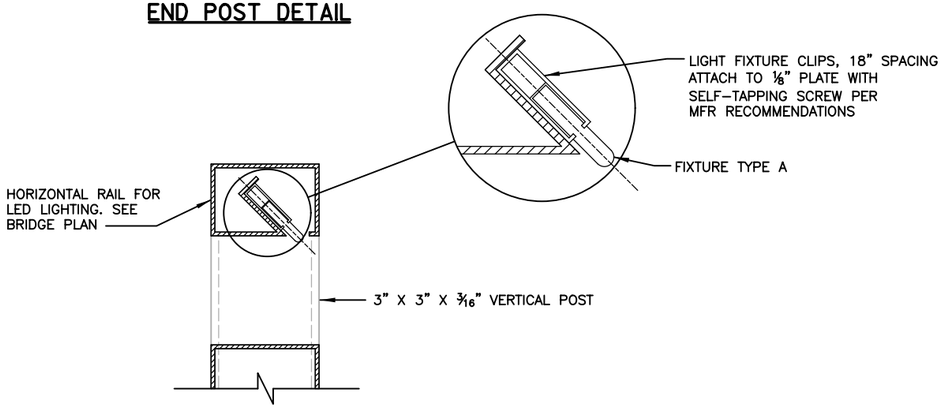


PULL BOX

(NO SCALE)



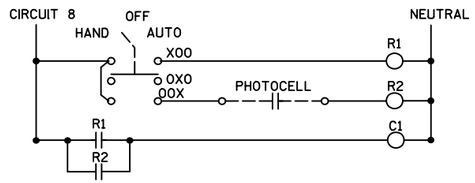
LIGHTING CONTROL PANEL MOUNTING DETAIL



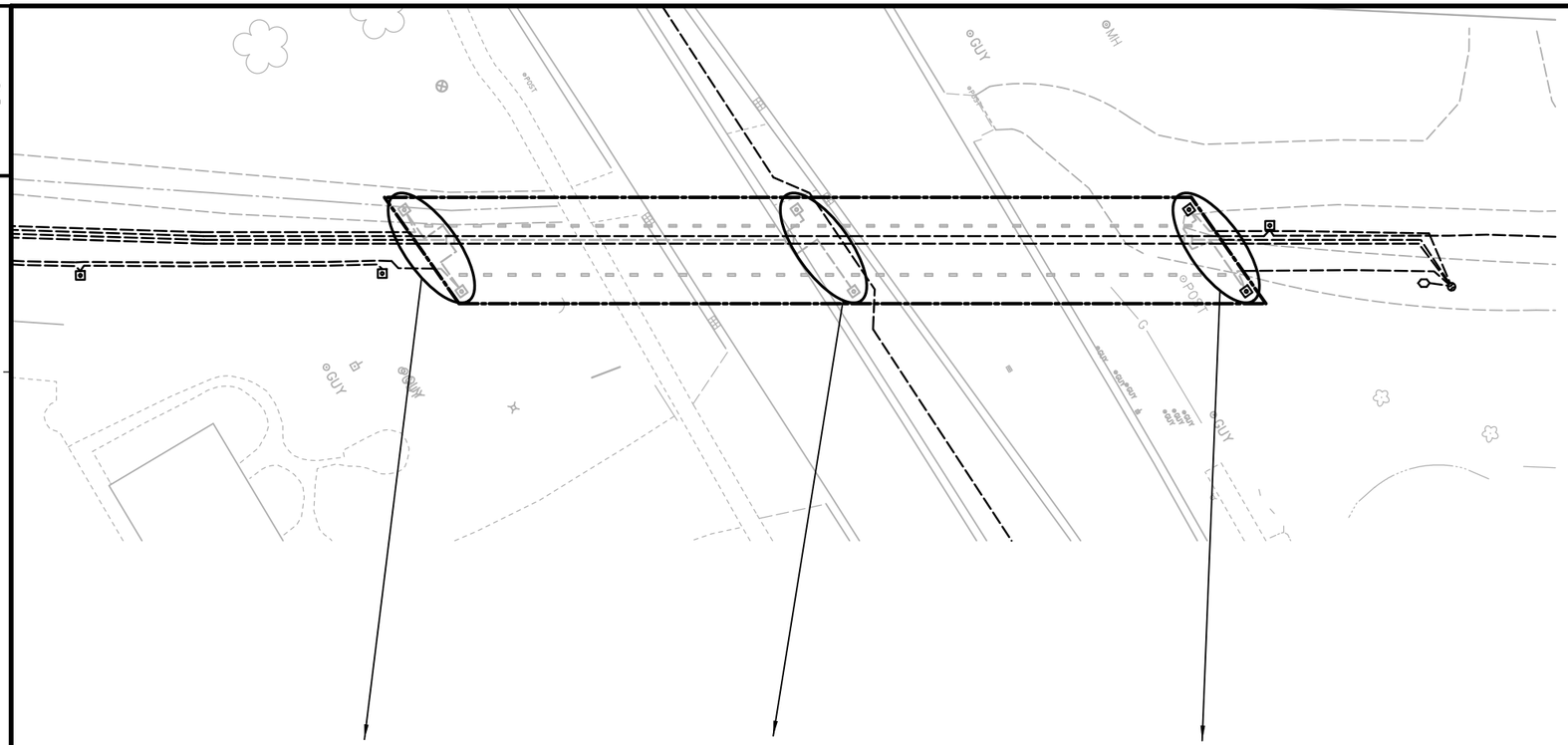
SECTION B-B

LED HANDRAIL MOUNTING DETAIL

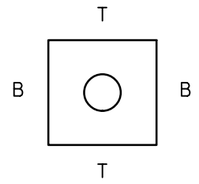
LCP CIRCUIT BREAKER SCHEDULE			
LCP NO.	MAIN C/B	BRANCH CIRCUIT	BRANCH CIRCUIT C/B
1	30A	FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE B (2)	3A
		EXHAUST FAN	3A
2	30A	FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE A POWER SUPPLY	1.5A
		FIXTURE TYPE B, C, D (4)	3A
		EXHAUST FAN	3A



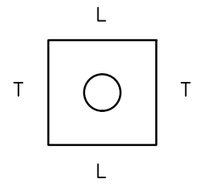
LC-1 CONTROL DIAGRAM



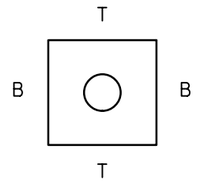
FIXTURE TYPE B

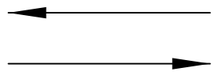


FIXTURE TYPE C

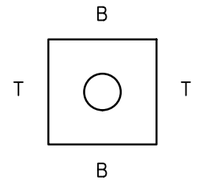


FIXTURE TYPE B

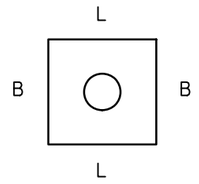




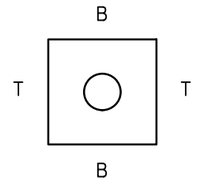
FIXTURE TYPE B



FIXTURE TYPE D



FIXTURE TYPE B



DECORATIVE PILLAR LUMINAIRE LAYOUT DETAIL

B=



T=



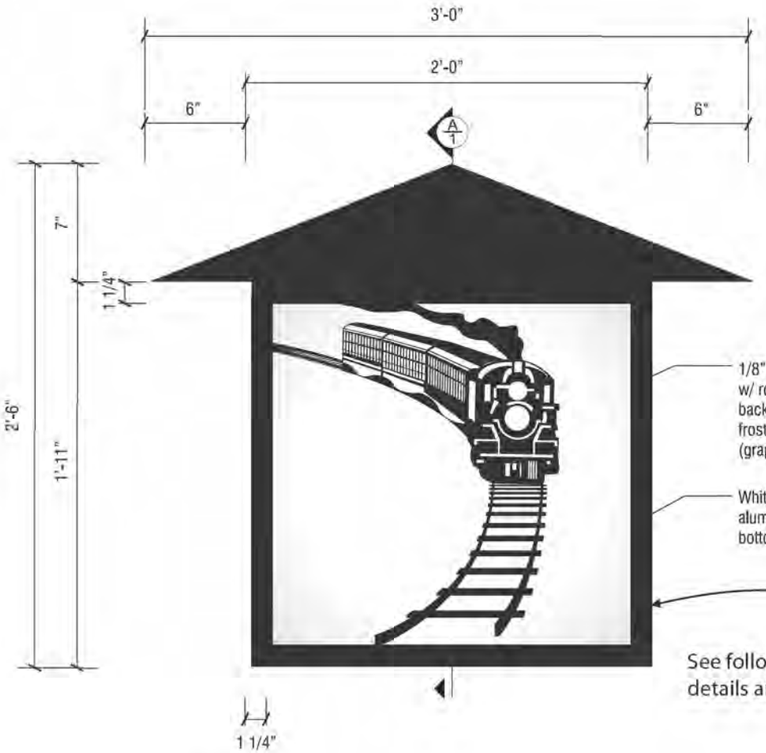
L=



2

Lantern Luminaire

Quantity: 6



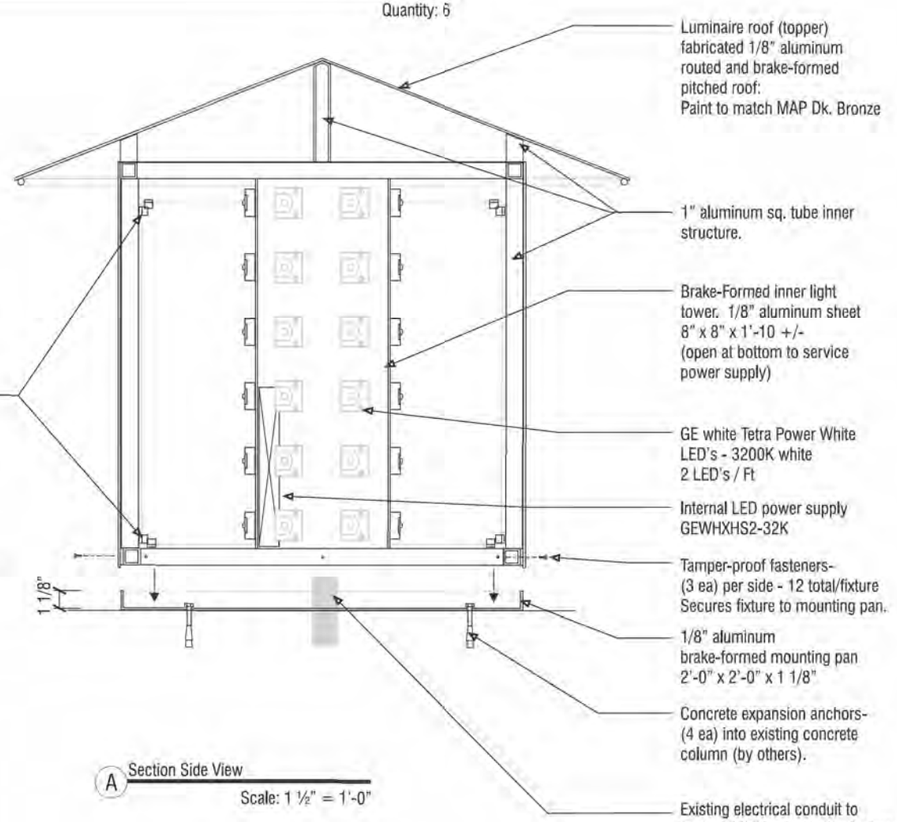
Front View
Scale: 1 ½"= 1'-0"

Detail View at lantern corner
See Detail: 1

1/8" aluminum panel
w/ routed graphic
back with 3/16" thick white lexan-
frosted 2nd surface.
(graphic occurs on all 4 sices)

White lexan held in place with
aluminum tabs at corners, top
bottom and sides (8ea side))

See following sheet for graphic
details and placement



Luminaire roof (topper)
fabricated 1/8" aluminum
routed and brake-formed
pitched roof:
Paint to match MAP Dk. Bronze

1" aluminum sq. tube inner
structure.

Brake-Formed inner light
tower. 1/8" aluminum sheet
8" x 8" x 1'-10 +/-
(open at bottom to service
power supply)

GE white Tetra Power White
LED's - 3200K white
2 LED's / Ft

Internal LED power supply
GEWHXHS2-32K

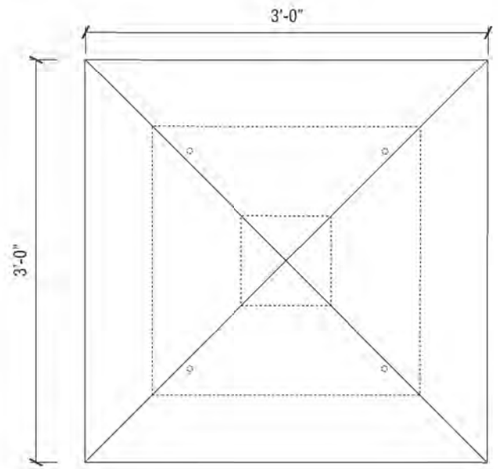
Tamper-proof fasteners-
(3 ea) per side - 12 total/fixture
Secures fixture to mounting pan.

1/8" aluminum
brake-formed mounting pan
2'-0" x 2'-0" x 1 1/8"

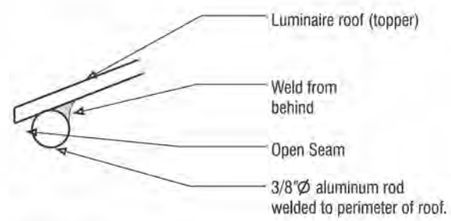
Concrete expansion anchors-
(4 ea) into existing concrete
column (by others).

Existing electrical conduit to
power LED illuminated luminaires
(existing, by others)

A Section Side View
Scale: 1 ½" = 1'-0"



Plan View
Scale: 1"= 1'-0"



Luminaire roof (topper)

Weld from
behind

Open Seam

3/8"Ø aluminum rod
welded to perimeter of roof.

1 Detail View at Welded Rod
Scale: NTS (exaggerated)

Fixture Details:

Power Requirement: 120V
Lamping: GE - Tetra White LED's (24 ft) 3200K
LED Driver(s): (1 ea) GEWHXHS2-32K (120 or 277 volt)
Total Wattage: 48 total watts

Metal: Aluminum Construction
Finish: MAP Dk. Bronze to match RAL8019 -
Diffuser / Lens: 3/16" thick White Lexan
Diffuser / Lens Finish: 2nd surface frosted

Fixture Weight: Approx: 40 lbs

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	DECORATIVE PILLAR LUMINAIRE SHOP DRAWING	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\023517_lp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

City of Fitchburg







GRAPHIC LAYOUT INFORMATION
(6) COLUMN-TOP LUMINAIRES TOTAL

FIXTURE TYPE D

FIXTURE TYPE C

	1	2	3	4	5	6
bike	X	X	X	X	X	
train	X	X	X	X		X
city logo					X	X

FIXTURE TYPE B

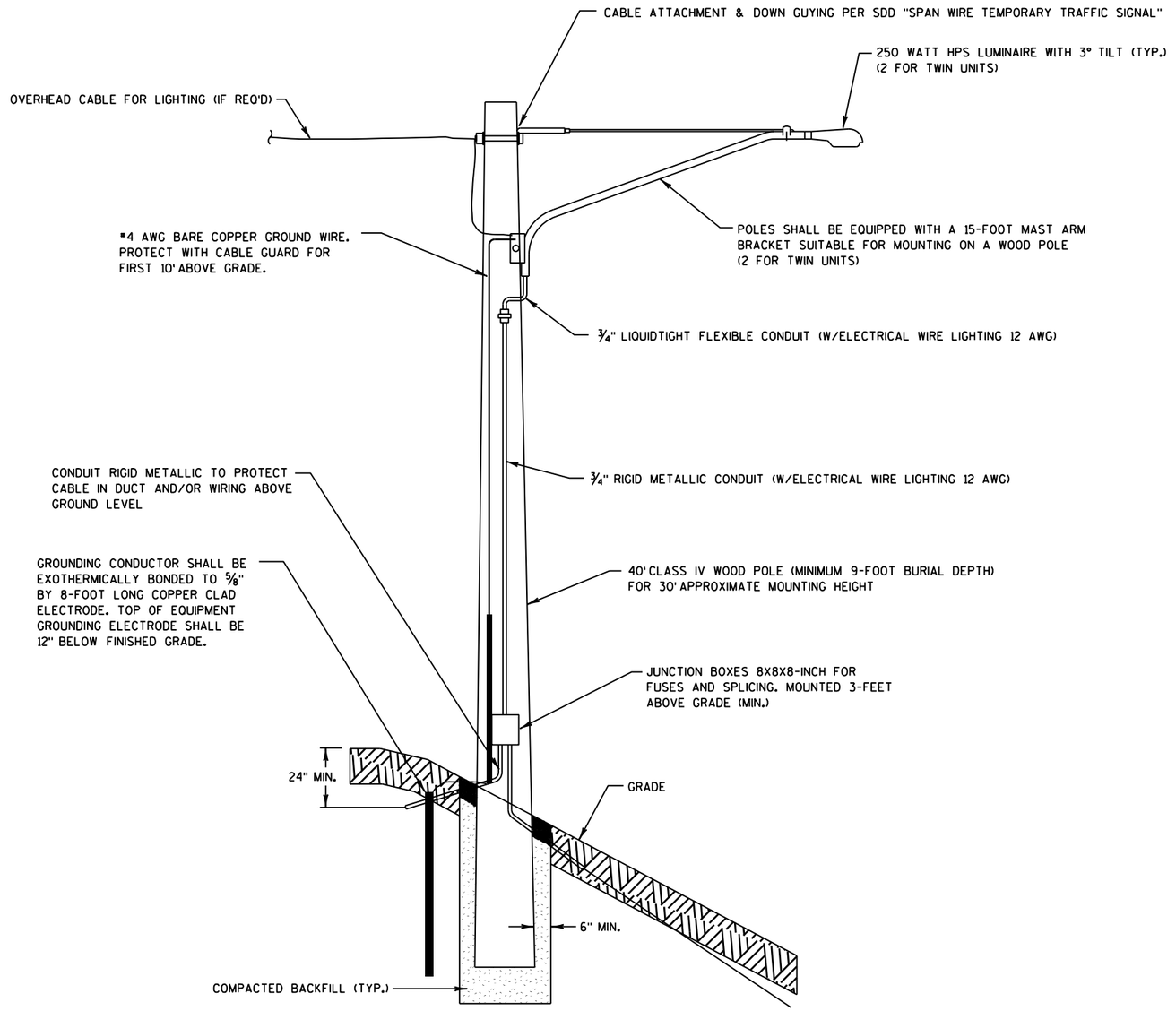
like graphics placed on opposing sides

TEMPORARY STREET LIGHTING PLANS
PREPARED BY

KL Engineering
[A] Better Experience

WISCONSIN
MIKE D.
SCARMON
E-37613
EVANSVILLE,
WI
PROFESSIONAL ENGINEER

2-1-2013
(DATE) (SIGNATURE)



TEMPORARY LIGHTING UNIT INSTALLATION DETAIL

NOT TO SCALE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TEMPORARY STREET LIGHTING - FREEPORT CONNECTION TEMP	SHEET 374	E

FILE NAME : G:\STRAND\S11001\dgn\024022_temp_ltg_freeport.dgn PLOT DATE : 1/18/2013 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

LEGEND

- TEMPORARY LIGHTING UNIT
- TEMPORARY PULL BOX
- TEMPORARY CONDUIT WITH 3-#4 & 1-#8 AWG
- EXISTING STREET LIGHT
- EXISTING UNDERGROUND LIGHTING CONDUIT
- [1] CONNECT TO EXISTING STREET LIGHT BASE
- [2] INTERCEPT EXISTING CONDUIT WITH PULLBOX
- [3] CONNECT TO EXISTING CONDUIT
- [4] REMOVE EXISTING STREET LIGHT
- [5] INSTALL CONDUIT BY BORE
- [6] EXISTING UTILITY LIGHT TO REMAIN

TEMPORARY LIGHTING MAJOR ITEMS SUMMARY	
700 LF	TEMPORARY CONDUIT
60 LF	TEMPORARY CONDUIT BY BORE
1 EACH	TEMPORARY PULL BOX
6 EACH	TEMPORARY STREET LIGHT UNIT
2550 LF	#4 AWG CONDUCTORS
850 LF	#8 AWG CONDUCTORS

ALL ITEMS NOTED ABOVE INCIDENTAL TO BID ITEM "TEMPORARY LIGHTING (FREEPORT CONNECTOR)"

GENERAL LIGHTING NOTES:

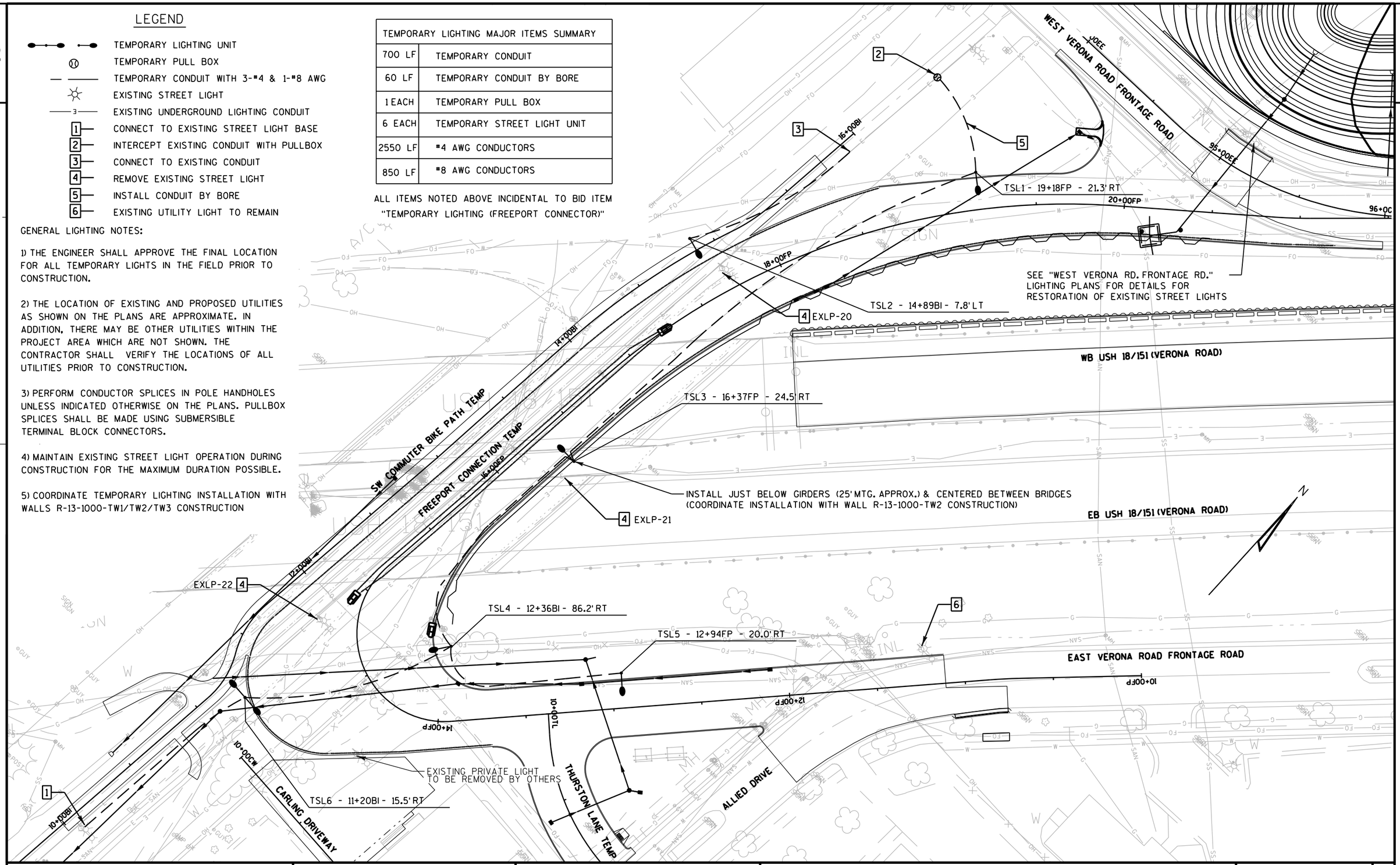
1) THE ENGINEER SHALL APPROVE THE FINAL LOCATION FOR ALL TEMPORARY LIGHTS IN THE FIELD PRIOR TO CONSTRUCTION.

2) THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

3) PERFORM CONDUCTOR SPLICES IN POLE HANDHOLES UNLESS INDICATED OTHERWISE ON THE PLANS. PULLBOX SPLICES SHALL BE MADE USING SUBMERSIBLE TERMINAL BLOCK CONNECTORS.

4) MAINTAIN EXISTING STREET LIGHT OPERATION DURING CONSTRUCTION FOR THE MAXIMUM DURATION POSSIBLE.

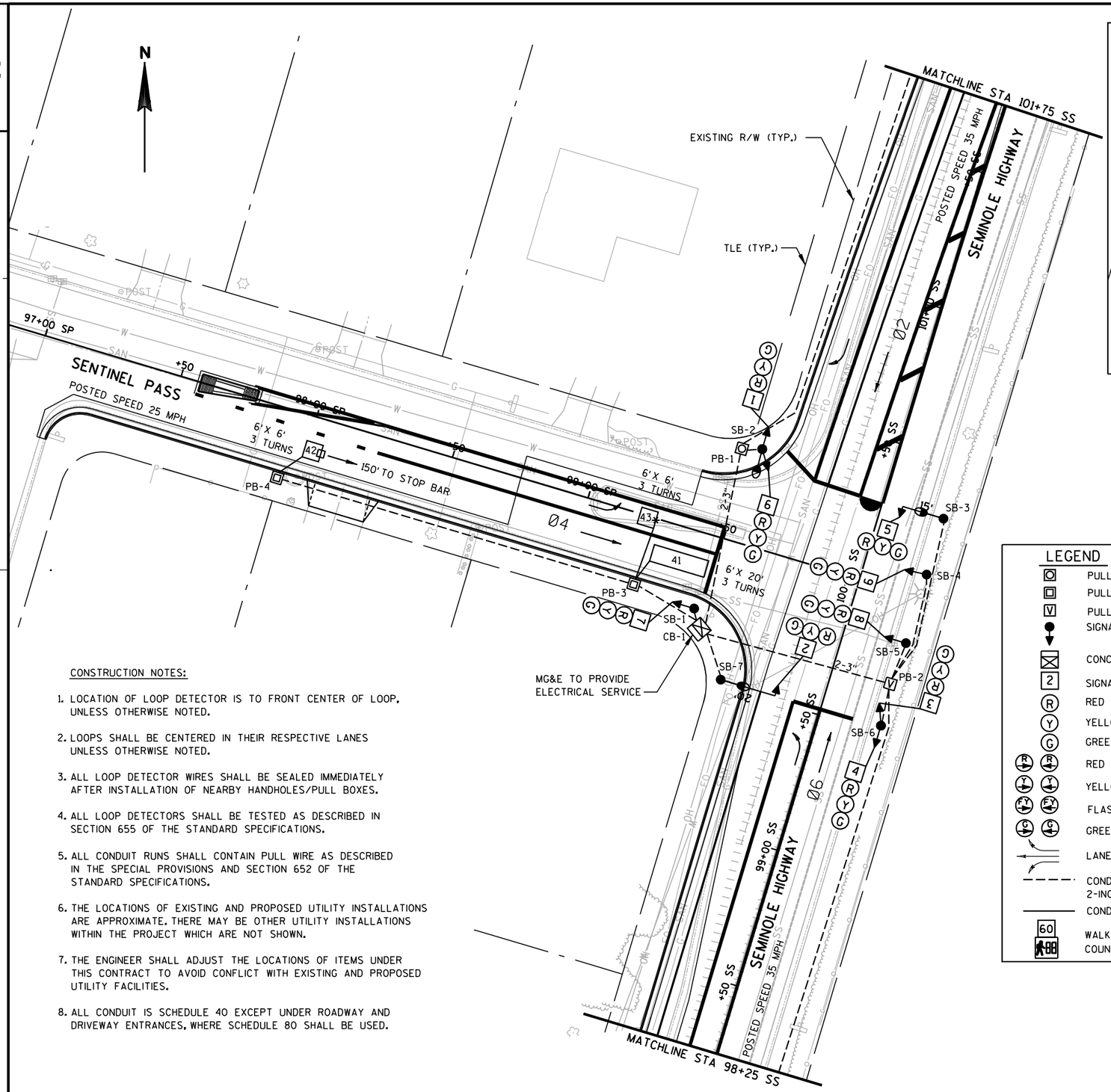
5) COORDINATE TEMPORARY LIGHTING INSTALLATION WITH WALLS R-13-1000-TW1/TW2/TW3 CONSTRUCTION

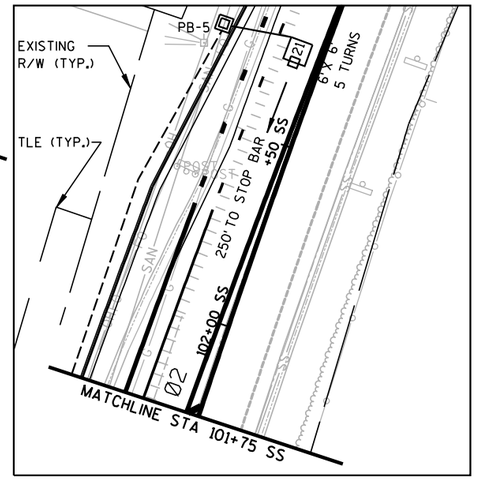


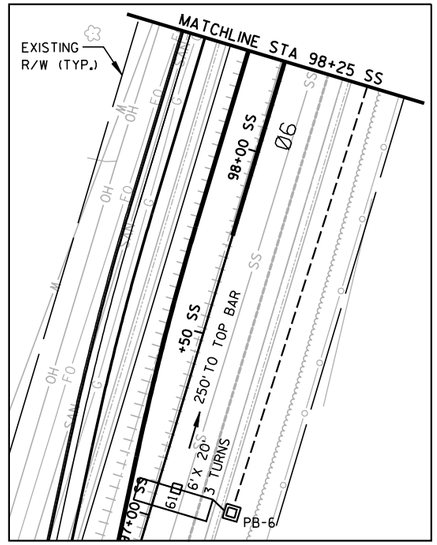
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TEMPORARY STREET LIGHTING - FREEPORT CONNECTION TEMP	SHEET 375	E

FILE NAME : G:\STRAND\S11001\dgn\024021_temp_ltg_freeport.dgn PLOT DATE : 2/20/2013 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42







LEGEND

- PULL BOX TYPE I
- PULL BOX TYPE III
- PULL BOX TYPE V
- SIGNAL HEAD, CONCRETE BASE, TYPE G
- CONCRETE BASES TYPE P
- 2 — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- FY — FLASHING YELLOW ARROW
- GREEN ARROW
- LANE DESIGNATION FOR INFORMATION ONLY
- CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH UNLESS OTHERWISE NOTED
- CONDUIT LOOP DETECTOR (1" NON-METALLIC)
- 60 — WALK/DON'T WALK INDICATOR 12" COUNTDOWN TIMER 12"
- LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
- LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
- LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE
- (XX) — SIGNAL HEAD, TROMBONE ARM, 7 GA 20' POLE, CONCRETE BASE (TYPE LB-8), 11" BOLT CIRCLE
- (XX) — SIGNAL HEAD, TROMBONE ARM, 7 GA 30' POLE, 20" STEEL TRANSFORMER BASE, CONCRETE BASE (TYPE LB-8), 15" BOLT CIRCLE, LUMINAIRE AND 10' ARM (120V, 250W, HPS)
- SIGNAL HEAD, 11 GA 30' POLE, 16" STEEL TRANSFORMER BASE, CONCRETE BASE (TYPE LB-3), 11" BOLT CIRCLE, LUMINAIRE AND 10' ARM (120V, 250W, HPS)
- B — PEDESTRIAN HEAD WITH PUSH BUTTON
- Y — YIELD SIGN
- S — STOP SIGN

NOTE: GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL

SEMINOLE HIGHWAY & SENTINEL PASS
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. LOCAL CONTROLLER TYPE: Econolite

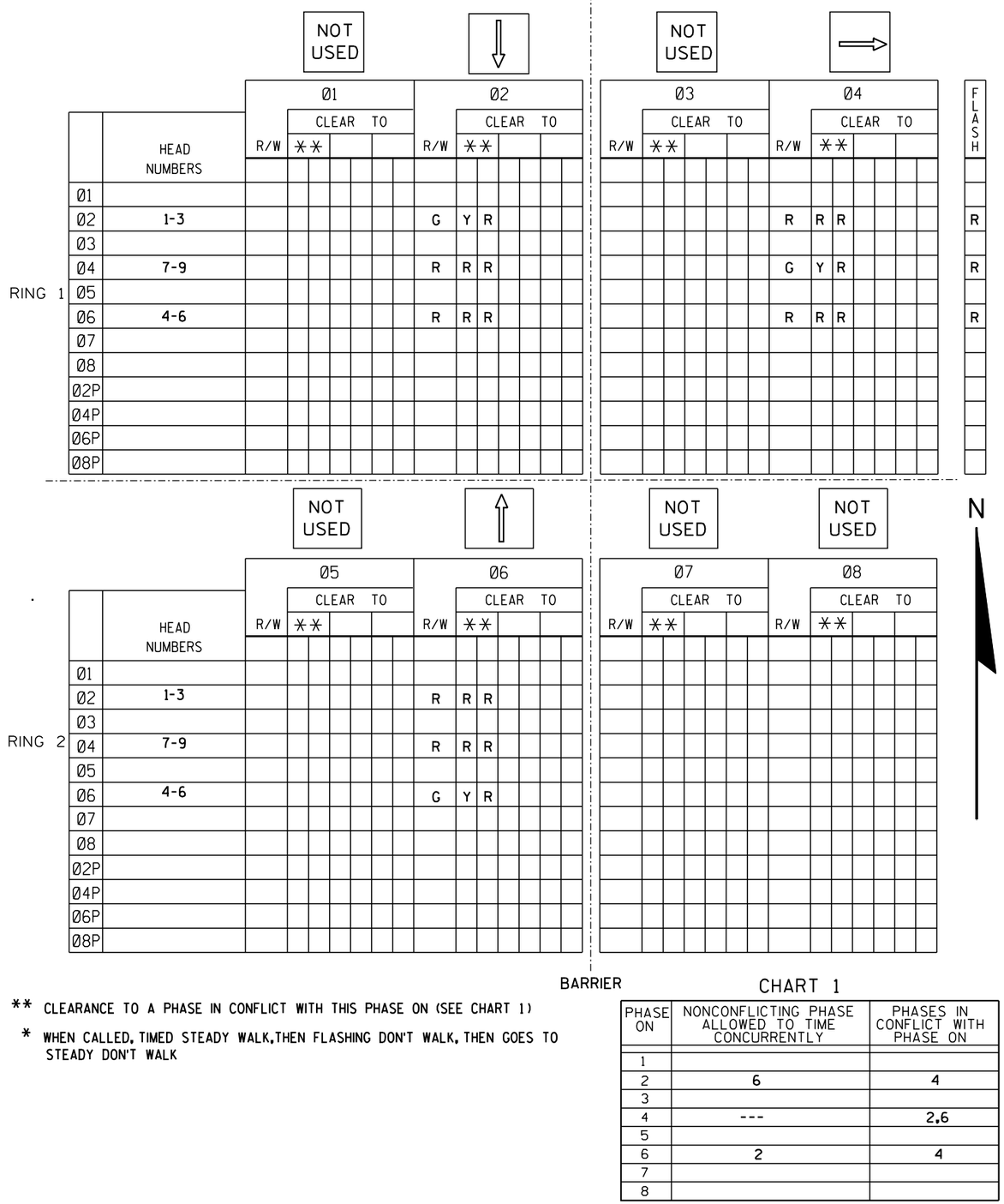
REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: STRAND
REVISED BY:

PAGE 1 OF 3

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC SIGNAL PLAN - SEMINOLE HWY AND SENTINEL PASS	SHEET E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\024005_sp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION



** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	6	4
3		
4	---	2,6
5		
6	2	4
7		
8		

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
21	1	X			2	2				6x6	5
41	2	X			4	4				6x20	3
42	3			X		4				6x6	3
43	4	X			4	4				6x6	3
61	5	X			6	6				6x20	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN.	X
3				
4				X
5				
6	X	2	MIN.	X
7				
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =
NONE

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

SEMINOLE HIGHWAY & SENTINEL PASS
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. LOCAL

CONTROLLER TYPE: Econolite

DATE

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\024006_ph.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

SEMINOLE HIGHWAY & SENTINEL PASS INTERSECTION
TRAFFIC SIGNAL CABLING CHART
NO. 14 CABLE

CABLE RUN	CABLE	HEAD NO.	MOVEMENT	LENS	CONDUCTOR COLOR	REMARKS
CONTROL CABINET TO SB-1	7/C	7	EB	R	R	Ø 4
				Y	O	
				G	G	
CONTROL CABINET TO SB-2	12/C	1	SB	R	R	Ø 2
				Y	O	
				G	G	
		6	NB	R	R/BLK	Ø 6
				Y	W/BLK	
				G	G/BLK	
CONTROL CABINET TO SB-3	9/C	5	NB	R	R	Ø 6
				Y	O	
				G	G	
CONTROL CABINET TO SB-4	7/C	9	EB	R	R	Ø 4
				Y	O	
				G	G	
CONTROL CABINET TO SB-5	7/C	8	EB	R	R	Ø 4
				Y	O	
				G	G	
CONTROL CABINET TO SB-6	12/C	3	SB	R	R	Ø 2
				Y	O	
				G	G	
		4	NB	R	R/BLK	Ø 6
				Y	W/BLK	
				G	G/BLK	
CONTROL CABINET TO SB-7	7/C	2	SB	R	R	Ø 2
				Y	O	
				G	G	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG	
FROM	TO
CB-1	SB-1
SB-1	SB-2
SB-2	SB-3
SB-3	SB-4
SB-4	SB-5
SB-5	SB-6
SB-6	SB-7
SB-7	CB-1

PULL BOX BONDING JUMPER 10 AWG	
FROM	TO
SB-2	PB-1
SB-6	PB-2

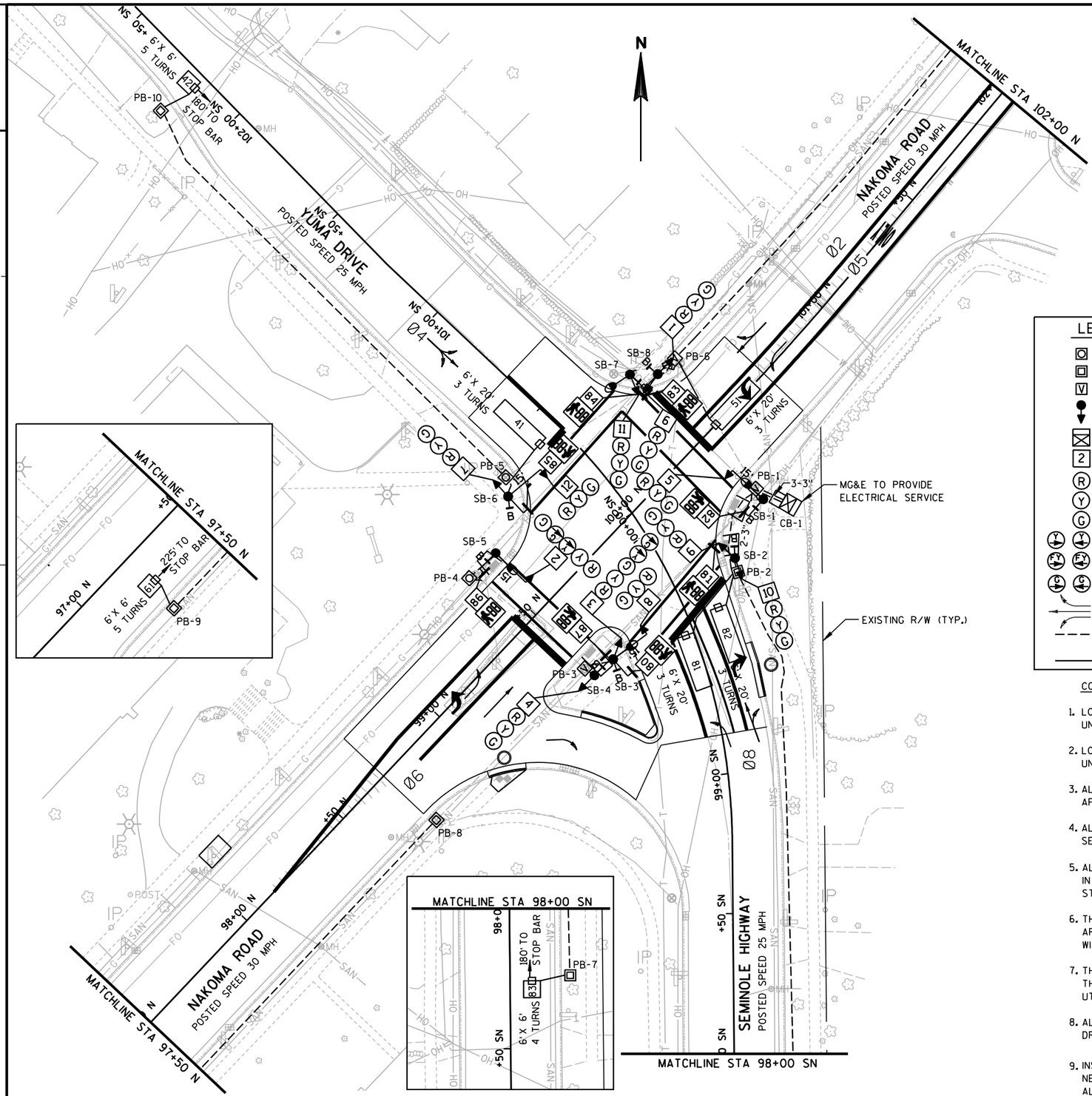
LIGHTING UF 12 AWG W/ GROUND	
FROM	TO
CB-1	SB-2
CB-1	SB-7
SB-7	SB-3

BLK = BLACK
W = WHITE
R = RED
G = GREEN
O = ORANGE
BLU = BLUE

1. ENSURE THE GROUNDED CONDUCTORS AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
2. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART.

TRAFFIC CONTROL SIGNAL
SEMINOLE HIGHWAY & SENTINEL PASS
CITY OF FITCHBURG
DANE COUNTY
SIGNAL NO. LOCAL
DESIGNED BY: STRAND
REVISED BY:
PAGE 3 OF 3

PROJECT NO: 1206-07-77 | HWY: USH 18 | COUNTY: DANE | CABLE ROUTING - SEMINOLE HWY AND SENTINEL PASS | SHEET 378 E



LEGEND

- PULL BOX TYPE I
- PULL BOX TYPE III
- PULL BOX TYPE V
- SIGNAL HEAD, CONCRETE BASE, TYPE G
- CONCRETE BASES TYPE P
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- FLASHING YELLOW ARROW
- GREEN ARROW
- LANE DESIGNATION FOR INFO ONLY
- CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH UNLESS OTHERWISE NOTED
- CONDUIT LOOP DETECTOR (1" NON-METALLIC)
- LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT USING SDD: "DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT"
- (XX) SIGNAL HEAD, TROMBONE ARM, 7 GA 20' POLE, CONCRETE BASE (TYPE LB-8), 11" BOLT CIRCLE
- (XX) SIGNAL HEAD, TROMBONE ARM, 7 GA 30' POLE, 20" STEEL TRANSFORMER BASE, CONCRETE BASE (TYPE LB-8), 15" BOLT CIRCLE, LUMINAIRE AND 10' ARM (120V, 250W, HPS)
- SIGNAL HEAD, 11 GA 30' POLE, 16" STEEL TRANSFORMER BASE, CONCRETE BASE (TYPE LB-3), 11" BOLT CIRCLE, LUMINAIRE AND 10' ARM (120V, 250W, HPS)
- PEDESTRIAN HEAD WITH PUSH BUTTON
- WALK/DON'T WALK INDICATOR 12" COUNTDOWN TIMER 12"
- YIELD SIGN
- STOP SIGN

NOTE: GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. LOCATION OF LOOP DETECTOR IS TO FRONT CENTER OF LOOP, UNLESS OTHERWISE NOTED.
2. LOOPS SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED.
3. ALL LOOP DETECTOR WIRES SHALL BE SEALED IMMEDIATELY AFTER INSTALLATION OF NEARBY HANDHOLES/PULL BOXES.
4. ALL LOOP DETECTORS SHALL BE TESTED AS DESCRIBED IN SECTION 655 OF THE STANDARD SPECIFICATIONS.
5. ALL CONDUIT RUNS SHALL CONTAIN PULL WIRE AS DESCRIBED IN THE SPECIAL PROVISIONS AND SECTION 652 OF THE STANDARD SPECIFICATIONS.
6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
7. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING AND PROPOSED UTILITY FACILITIES.
8. ALL CONDUIT IS SCHEDULE 40 EXCEPT UNDER ROADWAY AND DRIVEWAY ENTRANCES, WHERE SCHEDULE 80 SHALL BE USED.
9. INSTALL ALL LOOP DETECTORS AFTER MILLING COMPLETED. NEW ASPHALT PAVEMENT SHALL NOT BE INSTALLED UNTIL ALL LOOP DETECTORS ARE INSTALLED.

TRAFFIC CONTROL SIGNAL
SEMINOLE HIGHWAY & NAKOMA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL CONTROLLER TYPE: Econolite

REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: STRAND
REVISED BY:

PAGE 1 OF 3

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC SIGNAL PLAN - SEMINOLE/YUMA AND NAKOMA ROAD	SHEET 379 E

2

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
Ø1										
Ø2	1-3			G	Y R			R	R R	R
Ø3										
Ø4	7-9			R	R R			G	Y R	R
Ø5	2,3			R	R R			R	R R	-
Ø6	4-6			R	R R			R	R R	R
Ø7										
Ø8	10-12			R	R R			R	R R	R
Ø2P	84,85			*	DW DW			DW	DW DW	
Ø4P	86,87			DW	DW DW			*	DW DW	
Ø6P	80,81			DW	DW DW			DW	DW DW	
Ø8P	82,83			DW	DW DW			DW	DW DW	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
Ø1									
Ø2	1-3	R	R R	R	R R			R	R R
Ø3									
Ø4	7-9	R	R R	R	R R			R	R R
Ø5	2,3	G ←	Y ← -	R	R R			R	R R
Ø6	4-6	R	R R	G	Y R			R	R R
Ø7									
Ø8	10-12	R	R R	R	R R			G	Y R
Ø2P	84,85	DW	DW DW	DW	DW DW			DW	DW DW
Ø4P	86,87	DW	DW DW	DW	DW DW			DW	DW DW
Ø6P	80,81	DW	DW DW	*	DW DW			DW	DW DW
Ø8P	82,83	DW	DW DW	DW	DW DW			*	DW DW

BARRIER

N

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	5 OR 6	4,8
3		
4	8	2,5,6
5		
6	2	4,5,8
7		
8	4	2,5,6

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
21	1	X			2	2				6x15	3
41	2	X			4	4				6x20	3
42	3			X		4				6x6	5
51	4	X			5	5				6x20	3
61	5	X			6	6				6x6	5
81	6	X			8	8				6x20	3
82	7	X			8	8				6x20	3
83	8			X		8				6x6	4

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN.	X
3				
4		8		X
5				X
6	X	2	MIN.	X
7				
8		4		X

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =
NONE

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM #: SS- -	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

SEMINOLE HIGHWAY & NAKOMA ROAD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. LOCAL

CONTROLLER TYPE: Econolite

DATE

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\024011_ph.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SEMINOLE HIGHWAY & NAKOMA ROAD INTERSECTION
TRAFFIC SIGNAL CABLING CHART
NO. 14 CABLE

CABLE RUN	CABLE	HEAD NO.	MOVEMENT	LENS	CONDUCTOR COLOR	REMARKS
CONTROL CABINET TO SB-1	12/C	5	EB	R	R	Ø 6
				Y	O	
				G	G	
		82	Ø8 PED	D/WALK	BLK	
				WALK	BLU	
				PED BUTTON	W/BLK	BUTTON
CONTROL CABINET TO SB-2	12/C	9	SB	R	R	Ø 4
				Y	O	
				G	G	
		10	NB	R	R/BLK	Ø 8
				Y	O/BLK	
				G	G/BLK	
		81	Ø6 PED	D/WALK	BLK	
				WALK	BLU	
				PED BUTTON	W/BLK	BUTTON
CONTROL CABINET TO SB-3	15/C	3	WB/WBL	R	R	Ø 2/5
				Y	O	
				G	G	
				← Y	G/W	
				← G	BLK	
		8	SB	R	R/BLK	Ø 4
				Y	O/BLK	
				G	G/BLK	
		80	Ø6 PED	D/WALK	BLU	
				WALK	BLK/W	
				PED BUTTON	W/BLK	BUTTON
CONTROL CABINET TO SB-4	9/C	4	EB	R	R	Ø 6
				Y	O	
				G	G	
		87	Ø4 PED	D/WALK	BLK	
				WALK	BLU	
				PED BUTTON	W/BLK	BUTTON
CONTROL CABINET TO SB-5	12/C	2	WB/WBL	R	R	Ø 2/5
				Y	O	
				G	G	
				← Y	O/BLK	
				← G	G/BLK	
		86	Ø4 PED	D/WALK	BLU	
				WALK	R/BLK	
				PED BUTTON	W/BLK	BUTTON
CONTROL CABINET TO SB-6	12/C	7	SB	R	R	Ø 4
				Y	O	
				G	G	
		12	NB	R	R/BLK	Ø 8
				Y	O/BLK	
				G	G/BLK	
		85	Ø2 PED	D/WALK	BLK	
				WALK	BLU	
				PED BUTTON	W/BLK	BUTTON
CONTROL CABINET TO SB-7	9/C	11	NB	R	R	Ø 8
				Y	O	
				G	G	
		84	Ø2 PED	D/WALK	BLK	
				WALK	BLU	
				PED BUTTON	W/BLK	BUTTON
CONTROL CABINET TO SB-8	12/C	1	WB	R	R	Ø 2
				Y	O	
				G	G	
		6	EB	R	R/BLK	Ø 6
				Y	O/BLK	
				G	G/BLK	
		83	Ø8 PED	D/WALK	BLK	
				WALK	BLU	
				PED BUTTON	W/BLK	BUTTON

EQUIPMENT GROUNDING CONDUCTOR 10 AWG	
FROM	TO
CB-1	SB-1
SB-1	SB-2
SB-2	SB-3
SB-3	SB-4
SB-4	SB-5
SB-5	SB-6
SB-6	SB-7
SB-7	SB-8
SB-8	CB-1

PULL BOX BONDING JUMPER 10 AWG	
FROM	TO
SB-1	PB-1
SB-2	PB-2
SB-4	PB-3
SB-5	PB-4
SB-6	PB-5
SB-8	PB-6

LIGHTING UF 12 AWG W/ GROUND	
FROM	TO
CB-1	SB-3
SB-3	SB-5
CB-1	SB-1
SB-1	SB-7

BLK = BLACK
W = WHITE
R = RED
G = GREEN
O = ORANGE
BLU = BLUE

1. ENSURE THE GROUNDED CONDUCTORS AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
2. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART.

TRAFFIC CONTROL SIGNAL
SEMINOLE HIGHWAY & NAKOMA ROAD
CITY OF MADISON
DANE COUNTY
SIGNAL NO. LOCAL
DESIGNED BY: STRAND
REVISED BY:
PAGE 3 OF 3

PROJECT NO: 1206-07-77 | HWY: USH 18 | COUNTY: DANE | CABLE ROUTING - SEMINOLE/YUMA AND NAKOMA ROAD | SHEET 381 E

LEGEND

- PULL BOX TYPE I
- PULL BOX TYPE III
- PULL BOX TYPE V
- SIGNAL HEAD, CONCRETE BASE, TYPE G
- CONCRETE BASES TYPE P
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- FLASHING YELLOW ARROW
- GREEN ARROW
- LANE DESIGNATION FOR INFORMATION ONLY
- CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH UNLESS OTHERWISE NOTED
- CONDUIT LOOP DETECTOR (1" NON-METALLIC)
- WALK/DON'T WALK INDICATOR 12" COUNTDOWN TIMER 12"

- LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
- LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
- LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE
- (XX) SIGNAL HEAD, TROMBONE ARM, 7 GA 20' POLE, CONCRETE BASE (TYPE LB-8), 11" BOLT CIRCLE
- (XX) SIGNAL HEAD, TROMBONE ARM, 7 GA 30' POLE, 20" STEEL TRANSFORMER BASE, CONCRETE BASE (TYPE LB-8), 15" BOLT CIRCLE, LUMINAIRE AND 10' ARM (120V, 250W, HPS)
- SIGNAL HEAD, 11 GA 30' POLE, 16" STEEL TRANSFORMER BASE, CONCRETE BASE (TYPE LB-3), 11" BOLT CIRCLE, LUMINAIRE AND 10' ARM (120V, 250W, HPS)
- PEDESTRIAN HEAD WITH PUSH BUTTON
- YIELD SIGN
- STOP SIGN
- PULL BOXES STEEL 24"X36"

NOTE: GRAYSHADE REPRESENTS EXISTING

① INSTALL CONDUIT INTO EXISTING ITEM

② EXISTING TWIN LUMINAIRES IN MEDIAN TO BE REMOVED BY ALLIANT ENERGY (CONTACT JEFF NELSON AT 608-845-1148 A MINIMUM OF 10 WORKING DAYS BEFORE NEEDING THE LUMINAIRES REMOVED)

N

MATCHLINE STA 101+80 PB

CTH PB
POSTED SPEED 35 MPH

CTH M
POSTED SPEED 45 MPH

MATCHLINE STA 97+25 MPB

MATCHLINE STA 103+00 MPB

MATCHLINE STA 98+25 PB

Ø2 Ø3 Ø4 Ø5 Ø6

21 6'x20' 3 TURNS

51 6'x20' 3 TURNS

31 6'x20' 3 TURNS

41

EXPB-1 EXPB-2 EXPB-3 EXPB-4 EXPB-5 EXPB-6 EXPB-7 EXPB-8 EXPB-9 EXPB-10 EXPB-13 EXPB-14 EXPB-15

SB-1 SB-2 SB-3 SB-4 SB-5 SB-6 SB-7 SB-8 SB-9 SB-10

CB-1

MB-1

EXPOSE T-CONDULET AND REWIRE

ABANDON LOOP DETECTOR

METER BREAKER PEDESTAL (ALLIANT ENERGY TO PROVIDE ELECTRICAL SERVICE)

EXISTING R/W (TYP.)

IP

CONSTRUCTION NOTES:

1. LOCATION OF LOOP DETECTOR IS TO FRONT CENTER OF LOOP, UNLESS OTHERWISE NOTED.
2. LOOPS SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED.
3. ALL LOOP DETECTOR WIRES SHALL BE SEALED IMMEDIATELY AFTER INSTALLATION OF NEARBY HANDHOLES/PULL BOXES.
4. ALL LOOP DETECTORS SHALL BE TESTED AS DESCRIBED IN SECTION 655 OF THE STANDARD SPECIFICATIONS.
5. ALL CONDUIT RUNS SHALL CONTAIN PULL WIRE AS DESCRIBED IN THE SPECIAL PROVISIONS AND SECTION 652 OF THE STANDARD SPECIFICATIONS.
6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
7. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING AND PROPOSED UTILITY FACILITIES.
8. ALL CONDUIT IS SCHEDULE 40 EXCEPT UNDER ROADWAY AND DRIVEWAY ENTRANCES, WHERE SCHEDULE 80 SHALL BE USED.

TRAFFIC CONTROL SIGNAL

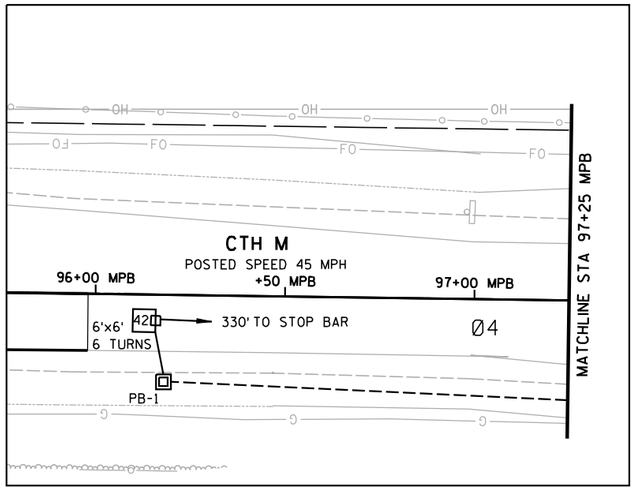
CTH PB & CTH M
CITY OF VERONA
DANE COUNTY

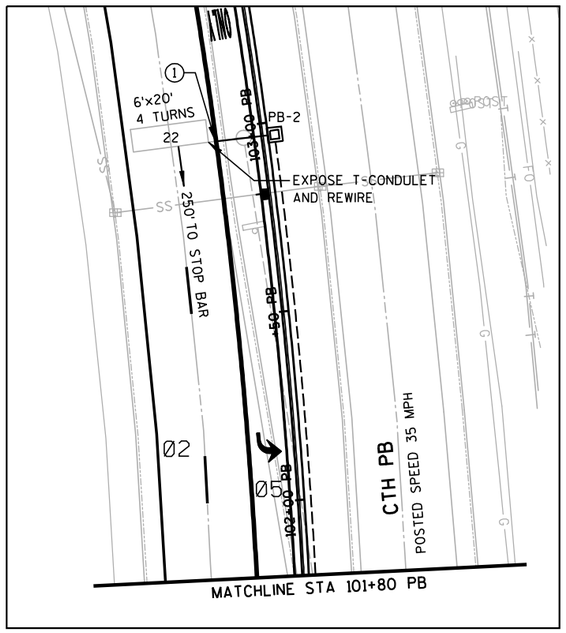
SIGNAL NO. LOCAL CONTROLLER TYPE: Econolite

REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: STRAND
REVISED BY:

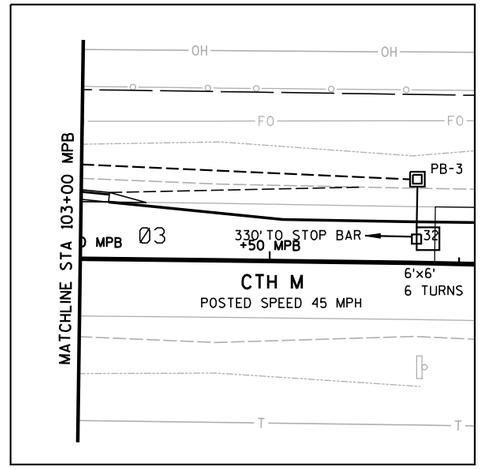
PAGE 1 OF 4

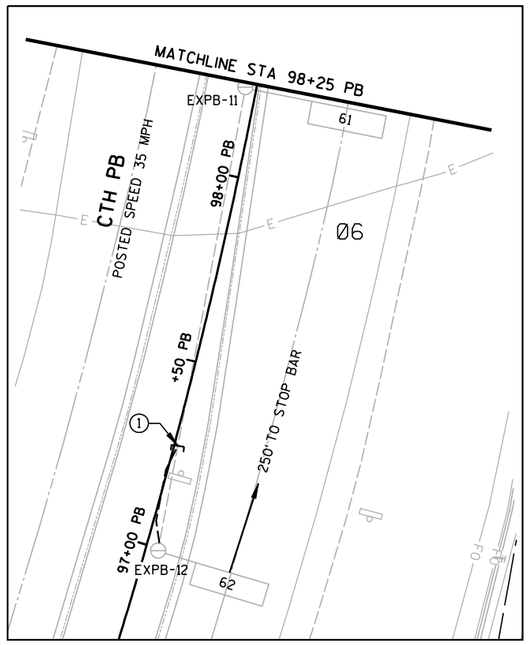
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC SIGNAL PLAN - CTH PB AND CTH M	SHEET 382 E





① INSTALL CONDUIT INTO EXISTING ITEM





LEGEND

- PULL BOX TYPE I
- PULL BOX TYPE III
- PULL BOX TYPE V
- SIGNAL HEAD, CONCRETE BASE, TYPE G
- CONCRETE BASES TYPE P
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- FLASHING YELLOW ARROW
- GREEN ARROW
- LANE DESIGNATION FOR INFORMATION ONLY
- CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH UNLESS OTHERWISE NOTED
- CONDUIT LOOP DETECTOR (1" NON-METALLIC)
- WALK/DON'T WALK INDICATOR 12"
- COUNTDOWN TIMER 12"

- LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
- LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
- LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE
- SIGNAL HEAD, TROMBONE ARM, 7 GA 20' POLE, CONCRETE BASE (TYPE LB-8), 11" BOLT CIRCLE
- SIGNAL HEAD, TROMBONE ARM, 7 GA 30' POLE, 20" STEEL TRANSFORMER BASE, CONCRETE BASE (TYPE LB-8), 15" BOLT CIRCLE, LUMINAIRE AND 10' ARM (120V, 250W, HPS)
- SIGNAL HEAD, 11 GA 30' POLE, 16" STEEL TRANSFORMER BASE, CONCRETE BASE (TYPE LB-3), 11" BOLT CIRCLE, LUMINAIRE AND 10' ARM (120V, 250W, HPS)
- PEDESTRIAN HEAD WITH PUSH BUTTON
- YIELD SIGN
- STOP SIGN
- PULL BOXES STEEL 18"X24"

NOTE: GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
CTH PB & CTH M
CITY OF VERONA
DANE COUNTY

SIGNAL NO. LOCAL CONTROLLER TYPE: Econolite

REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: STRAND
REVISED BY:

PAGE 2 OF 4

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC SIGNAL PLAN - CTH PB AND CTH M	SHEET 383 E

SEQUENCE OF OPERATION

		HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
			NOT USED		O.L. A		←		→		
RING 1	Ø1										
	Ø2	7-9			G Y R		R R R		R R R		R
	Ø3	1-3			R R R		G, G Y R		R R R		R
	Ø4	4-6			R R R		R R R		G, G Y R		R
	Ø5	10,11			- - -		- - -		- - -		-
	Ø6	12-14			R R R		R R R		R R R		R
	Ø7										
	Ø8										
	Ø2P										
	Ø4P										
	Ø6P										
	Ø8P										
	O.L. A	15,16			FY Y R		R R R		R R R		R
	O.L. C	10,11			R R R		R R R		R R R		R

N

		HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
			←		O.L. C		NOT USED		NOT USED	
RING 2	Ø1									
	Ø2	7-9	R	R R	R	R R				
	Ø3	1-3	R	R R	R	R R				
	Ø4	4-6	R	R R	R	R R				
	Ø5	10,11	G	- -	-	- - -				
	Ø6	12-14	R	R R	G	Y R				
	Ø7									
	Ø8									
	Ø2P									
	Ø4P									
	Ø6P									
	Ø8P									
	O.L. A	15,16	R	R R	R	R R				
	O.L. C	10,11	-	Y R	FY	Y R				

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
21	1	X			2	2				6x20	3
22	2	X			2	2				6X20	4
31	3	X			3	3				6x20	-
32	4			X		3				6x6	6
41	5	X			4	4				6x20	-
42	6			X		4				6x6	6
51	7	X			5	5				6x20	3
61	8	X			6	6				6x20	-
62	9	X			6	6				6x20	-

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN.	X
3				X
4				X
5				X
6	X	2	MIN.	X
7				
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =
NONE

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
O.L. "A"	-	2
O.L. "B"	-	-
O.L. "C"	5	6
O.L. "D"	-	-

TYPE OF INTERCONNECT COMMUNICATION	
NONE	x
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF PRE-EMPT	
NONE	x
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	x
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	5 OR 6	3,4
3	---	2,4,5,6
4	---	2,3,5,6
5	2	3,4,6
6	2	3,4,5
7		
8		

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

CTH PB & CTH M
CITY OF VERONA
DANE COUNTY

SIGNAL NO. LOCAL

CONTROLLER TYPE: Econolite

DATE

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\024017_ph.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

CTH PB & CTH M INTERSECTION TRAFFIC SIGNAL CABLING CHART NO. 14 CABLE						
CABLE RUN	CABLE	HEAD NO.	MOVEMENT	LENS	CONDUCTOR COLOR	REMARKS
CONTROL CABINET TO SB-1	7/C	12	NB	R	R	Ø 6
				Y	O	
				G	G	
CONTROL CABINET TO SB-2	15/C	9	SB	R	R	Ø 2
				Y	O	
				G	G	
		10	SBL	← R	R/BLK	Ø5/OL C
				← Y	O/BLK	
				←FY	G/BLK	
				← G	G/W	
		16	NB	← R	BLK	OL A
				← Y	BLU	
				←FY	W/BLK	
CONTROL CABINET TO SB-3	7/C	8	SB	R	R	Ø 2
				Y	O	
				G	G	
CONTROL CABINET TO SB-4	12/C	3	WB	R	R	Ø 3
				Y	O	
				G	G	
				← G	BLK	
		4	EB	R	R/BLK	Ø 4
				Y	W/BLK	
				G	G/BLK	
CONTROL CABINET TO SB-5	7/C	2	WB	R	R	Ø 3
				Y	O	
				G	G	
				← G	BLK	
CONTROL CABINET TO SB-6	7/C	7	SB	R	R	Ø 2
				Y	O	
				G	G	
CONTROL CABINET TO SB-7	15/C	11	SBL	← R	R	Ø5/OL C
				← Y	O	
				←FY	G	
				← G	G/W	
		14	NB	R	R/BLK	Ø 6
				Y	O/BLK	
				G	G/BLK	
		15	NB	← R	BLK	OL A
				← Y	BLU	
				←FY	W/BLK	
CONTROL CABINET TO SB-8	7/C	13	NB	R	R	Ø 6
				Y	O	
				G	G	
CONTROL CABINET TO SB-9	12/C	1	WB	R	R	Ø 3
				Y	O	
				G	G	
		6	EB	R	R/BLK	Ø 4
				Y	W/BLK	
				G	G/BLK	
				← G	BLK	
CONTROL CABINET TO SB-10	7/C	5	EB	R	R	Ø 4
				Y	O	
				G	G	
				← G	BLK	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG	
FROM	TO
CB-1	SB-1
SB-1	SB-2
SB-2	SB-3
SB-3	SB-4
SB-4	SB-5
SB-5	SB-6
SB-6	SB-7
SB-7	SB-8
SB-8	SB-9
SB-9	SB-10
SB-10	CB-1

PULL BOX BONDING JUMPER 10 AWG	
FROM	TO
SB-1	EXPB-1
SB-2	EXPB-2
SB-4	EXPB-3
SB-3	EXPB-4
SB-5	EXPB-5
SB-6	EXPB-6
SB-7	EXPB-7
SB-9	EXPB-8
SB-8	EXPB-9
SB-10	EXPB-10

LIGHTING UF 12 AWG W/ GROUND	
FROM	TO
CB-1	SB-2
SB-2	SB-5
CB-1	SB-10
SB-10	SB-7

BLK = BLACK
W = WHITE
R = RED
G = GREEN
O = ORANGE
BLU = BLUE

1. ENSURE THE GROUNDED CONDUCTORS AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
2. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART.

TRAFFIC CONTROL SIGNAL

CTH PB & CTH M
CITY OF VERONA
DANE COUNTY

SIGNAL NO. LOCAL

DESIGNED BY: STRAND
REVISED BY:

PAGE 4 OF 4

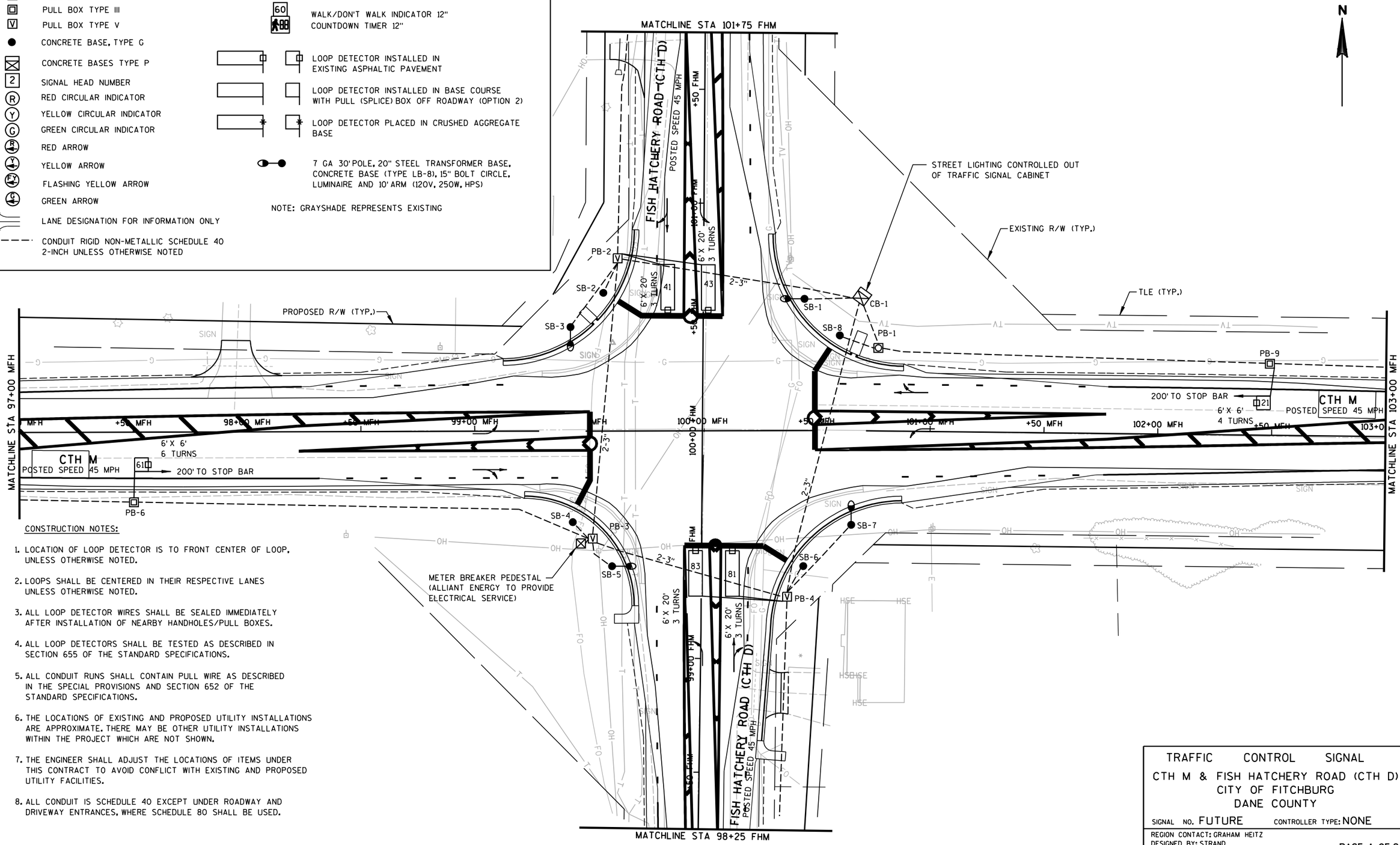
PROJECT NO: 1206-07-77 | HWY: USH 18 | COUNTY: DANE | CABLE ROUTING - CTH PB AND CTH M | SHEET 385 E

2

LEGEND

- PULL BOX TYPE I
- PULL BOX TYPE III
- PULL BOX TYPE V
- CONCRETE BASE, TYPE G
- CONCRETE BASES TYPE P
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- FLASHING YELLOW ARROW
- GREEN ARROW
- LANE DESIGNATION FOR INFORMATION ONLY
- CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH UNLESS OTHERWISE NOTED
- CONDUIT LOOP DETECTOR (1" NON-METALLIC)
- WALK/DON'T WALK INDICATOR 12" COUNTDOWN TIMER 12"
- LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
- LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
- LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE
- 7 GA 30' POLE, 20" STEEL TRANSFORMER BASE, CONCRETE BASE (TYPE LB-8), 15" BOLT CIRCLE, LUMINAIRE AND 10' ARM (120V, 250W, HPS)

NOTE: GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. LOCATION OF LOOP DETECTOR IS TO FRONT CENTER OF LOOP, UNLESS OTHERWISE NOTED.
2. LOOPS SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED.
3. ALL LOOP DETECTOR WIRES SHALL BE SEALED IMMEDIATELY AFTER INSTALLATION OF NEARBY HANDHOLES/PULL BOXES.
4. ALL LOOP DETECTORS SHALL BE TESTED AS DESCRIBED IN SECTION 655 OF THE STANDARD SPECIFICATIONS.
5. ALL CONDUIT RUNS SHALL CONTAIN PULL WIRE AS DESCRIBED IN THE SPECIAL PROVISIONS AND SECTION 652 OF THE STANDARD SPECIFICATIONS.
6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
7. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING AND PROPOSED UTILITY FACILITIES.
8. ALL CONDUIT IS SCHEDULE 40 EXCEPT UNDER ROADWAY AND DRIVEWAY ENTRANCES, WHERE SCHEDULE 80 SHALL BE USED.

TRAFFIC CONTROL SIGNAL

CTH M & FISH HATCHERY ROAD (CTH D)
CITY OF FITCHBURG
DANE COUNTY

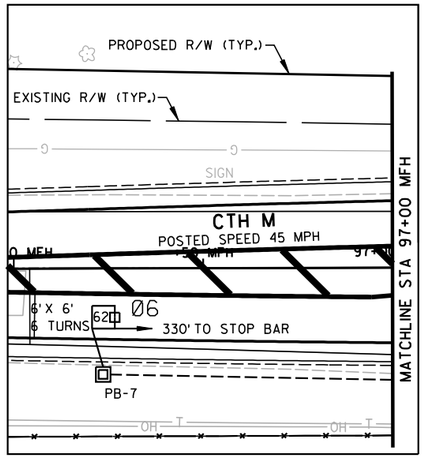
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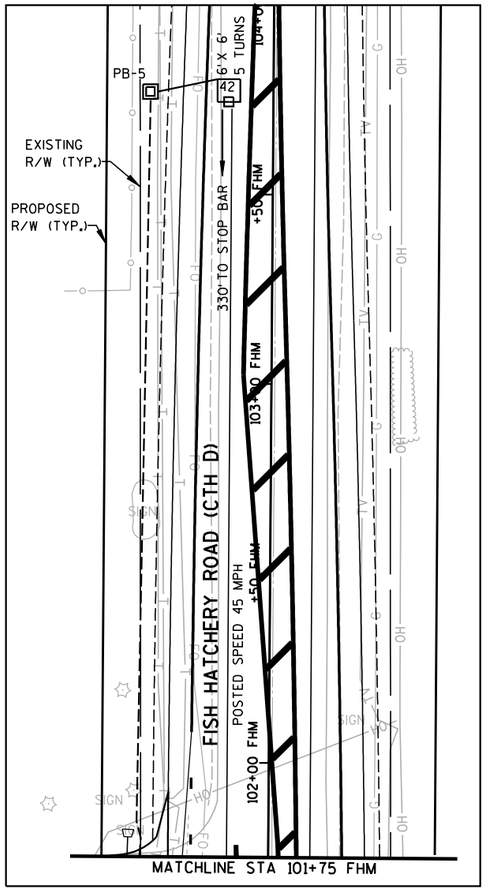
REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: STRAND
REVISED BY:

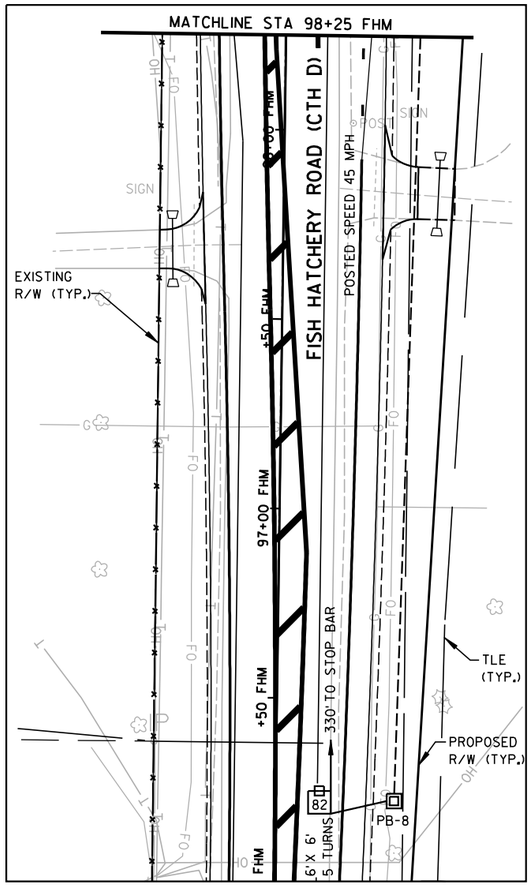
PAGE 1 OF 2

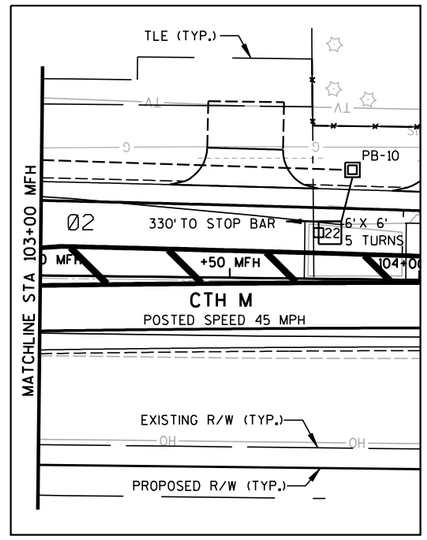
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC SIGNAL PLAN - CTH M AND FISH HATCHERY ROAD (CTH D)	SHEET 386 E

2









LEGEND

- PULL BOX TYPE I
- PULL BOX TYPE III
- PULL BOX TYPE V
- CONCRETE BASE, TYPE G
- CONCRETE BASES TYPE P
- 2 — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R R — RED ARROW
- Y Y — YELLOW ARROW
- FY FY — FLASHING YELLOW ARROW
- G G — GREEN ARROW
- LANE DESIGNATION FOR INFORMATION ONLY
- CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH UNLESS OTHERWISE NOTED
- CONDUIT LOOP DETECTOR (1" NON-METALLIC)
- 60 — WALK/DON'T WALK INDICATOR 12" COUNTDOWN TIMER 12"
- LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
- LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
- LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE
- 7 GA 30' POLE, 20" STEEL TRANSFORMER BASE, CONCRETE BASE (TYPE LB-8), 15" BOLT CIRCLE, LUMINAIRE AND 10' ARM (120V, 250W, HPS)

NOTE: GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL

CTH M & FISH HATCHERY ROAD (CTH D)
CITY OF FITCHBURG
DANE COUNTY

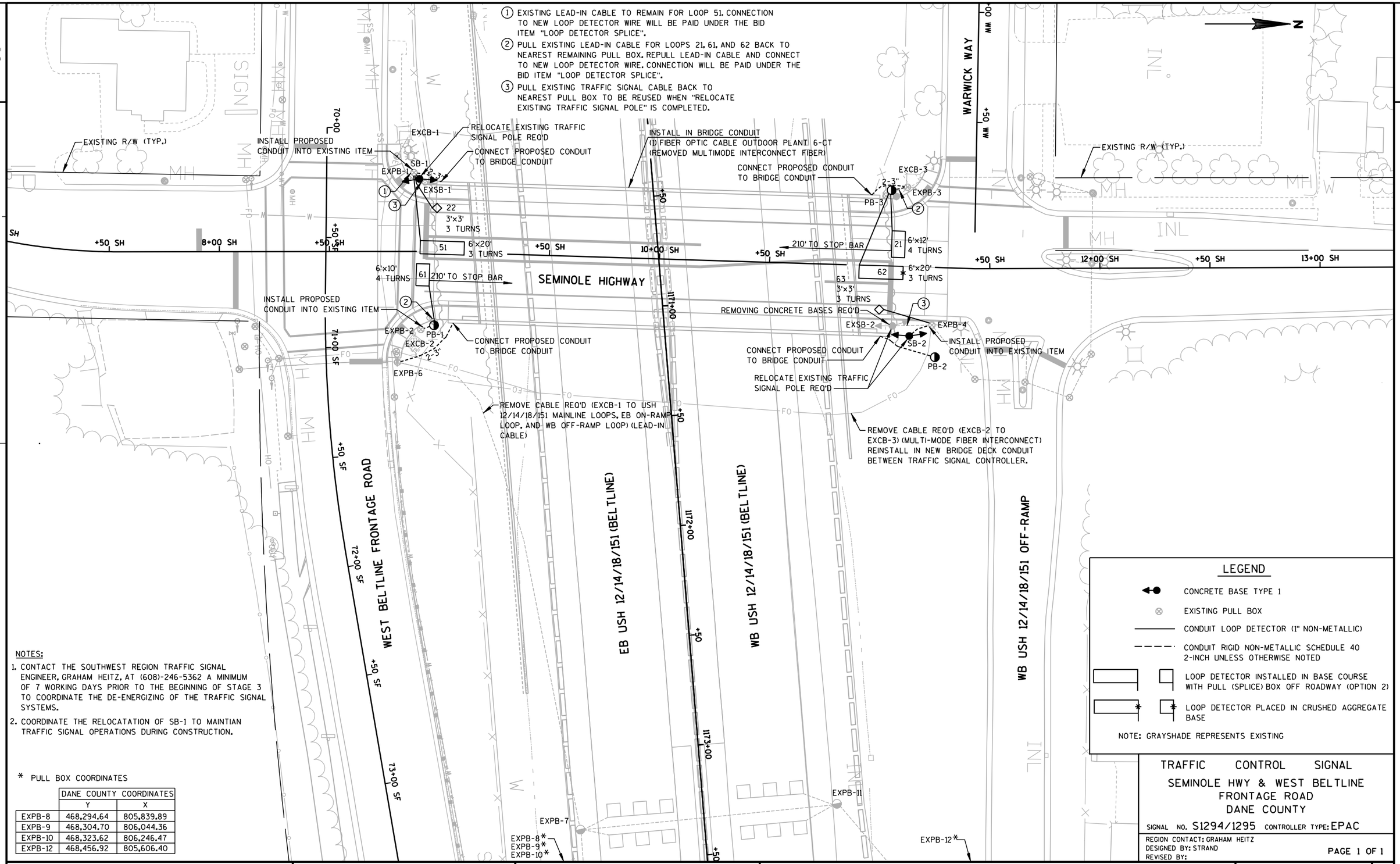
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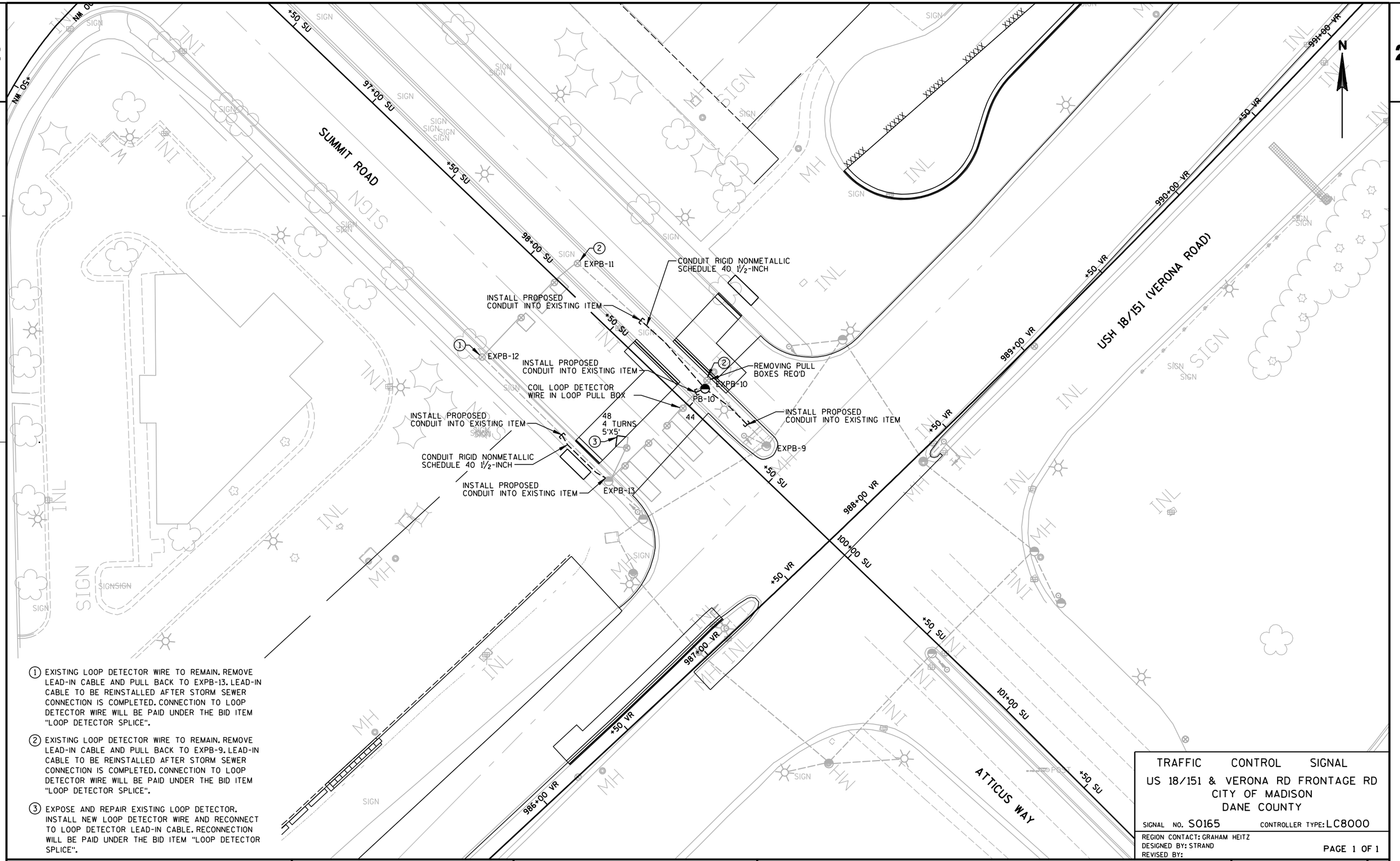
REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: STRAND
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC SIGNAL PLAN - CTH M AND FISH HATCHERY ROAD (CTH D)	SHEET 387 E

1. EXISTING LEAD-IN CABLE TO REMAIN FOR LOOP 51. CONNECTION TO NEW LOOP DETECTOR WIRE WILL BE PAID UNDER THE BID ITEM "LOOP DETECTOR Ssplice".
2. PULL EXISTING LEAD-IN CABLE FOR LOOPS 21, 61, AND 62 BACK TO NEAREST REMAINING PULL BOX. REPULL LEAD-IN CABLE AND CONNECT TO NEW LOOP DETECTOR WIRE. CONNECTION WILL BE PAID UNDER THE BID ITEM "LOOP DETECTOR SPLICE".
3. PULL EXISTING TRAFFIC SIGNAL CABLE BACK TO NEAREST PULL BOX TO BE REUSED WHEN "RELOCATE EXISTING TRAFFIC SIGNAL POLE" IS COMPLETED.


N
WARWICK WAY
SEMINOLE HIGHWAY
WEST BELTLINE FRONTAGE ROAD
EB USH 12/14/18/151 (BELTLINE)
WB USH 12/14/18/151 (BELTLINE)
WB USH 12/14/18/151 OFF-RAMP
EXISTING R/W (TYP.)
INSTALL PROPOSED CONDUIT INTO EXISTING ITEM
RELOCATE EXISTING TRAFFIC SIGNAL POLE REQ'D
CONNECT PROPOSED CONDUIT TO BRIDGE CONDUIT
INSTALL IN BRIDGE CONDUIT (1) FIBER OPTIC CABLE OUTDOOR PLANT 6-CT (REMOVED MULTIMODE INTERCONNECT FIBER)
EXCB-1
EXPB-1
SB-1
EXSB-1
PB-1
EXCB-2
EXPB-2
EXPB-6
EXCB-3
EXPB-3
PB-3
EXPB-4
SB-2
PB-2
EXSB-2
22 3'x3' 3 TURNS
51 6'x20' 3 TURNS
61 6'x10' 4 TURNS
210' TO STOP BAR
21 6'x12' 4 TURNS
62 6'x20' 3 TURNS
63 3'x3' 3 TURNS
REMOVING CONCRETE BASES REQ'D
REMOVE CABLE REQ'D (EXCB-1 TO USH 12/14/18/151 MAINLINE LOOPS, EB ON-RAMP LOOP, AND WB OFF-RAMP LOOP) (LEAD-IN CABLE)
REMOVE CABLE REQ'D (EXCB-2 TO EXCB-3) (MULTI-MODE FIBER INTERCONNECT) REINSTALL IN NEW BRIDGE DECK CONDUIT BETWEEN TRAFFIC SIGNAL CONTROLLER.
EXPB-7
EXPB-8*
EXPB-9*
EXPB-10*
EXPB-11
EXPB-12*
+50 SH
8+00 SH
10+00 SH
12+00 SH
13+00 SH
70+00
71+00 SF
72+00 SF
117+00
117+50
118+00
118+50
119+00
119+50
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1. EXISTING LOOP DETECTOR WIRE TO REMAIN. REMOVE LEAD-IN CABLE AND PULL BACK TO EXPB-13. LEAD-IN CABLE TO BE REINSTALLED AFTER STORM SEWER CONNECTION IS COMPLETED. CONNECTION TO LOOP DETECTOR WIRE WILL BE PAID UNDER THE BID ITEM "LOOP DETECTOR SPLICE".
2. EXISTING LOOP DETECTOR WIRE TO REMAIN. REMOVE LEAD-IN CABLE AND PULL BACK TO EXPB-9. LEAD-IN CABLE TO BE REINSTALLED AFTER STORM SEWER CONNECTION IS COMPLETED. CONNECTION TO LOOP DETECTOR WIRE WILL BE PAID UNDER THE BID ITEM "LOOP DETECTOR SPLICE".
3. EXPOSE AND REPAIR EXISTING LOOP DETECTOR. INSTALL NEW LOOP DETECTOR WIRE AND RECONNECT TO LOOP DETECTOR LEAD-IN CABLE. RECONNECTION WILL BE PAID UNDER THE BID ITEM "LOOP DETECTOR SPLICE".

TRAFFIC CONTROL SIGNAL

US 18/151 & VERONA RD FRONTAGE RD
CITY OF MADISON
DANE COUNTY

SIGNAL NO. S0165 CONTROLLER TYPE: LC8000

REGION CONTACT: GRAHAM HEITZ
DESIGNED BY: STRAND
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC SIGNAL PLAN - CTH PB AND CTH M	SHEET 389 E

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

* MATCH EXISTING PAVEMENT MARKING LOCATION

ODANA ROAD

STA. 1024+51, 53' LT
STA. 1022+42, 66' LT
STA. 1022+03, 43' LT
STA. 1022+03, 31' LT
STA. 1023+31, 28' RT
STA. 1023+33, 40' RT
S-13-395
STA. 1034+00, 44' LT
MATCHLINE STA. 1037+00
EB USH 12/14 (BELTLINE)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 12/14 (BELTLINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\024501_pm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PAVEMENT MARKING LEGEND

① PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
② PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
③ PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
④ PAVEMENT MARKING EPOXY 4-INCH, WHITE
⑤ PAVEMENT MARKING EPOXY 4-INCH, YELLOW
⑥ PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
⑦ PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
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⑮ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
⑯ PAVEMENT MARKING CURB EPOXY, YELLOW
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⑱ PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑲ PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑳ PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
㉑ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
㉒ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
㉓ PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
㉔ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION

ODANA ROAD

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1037+00

MATCHLINE STA. 1052+00

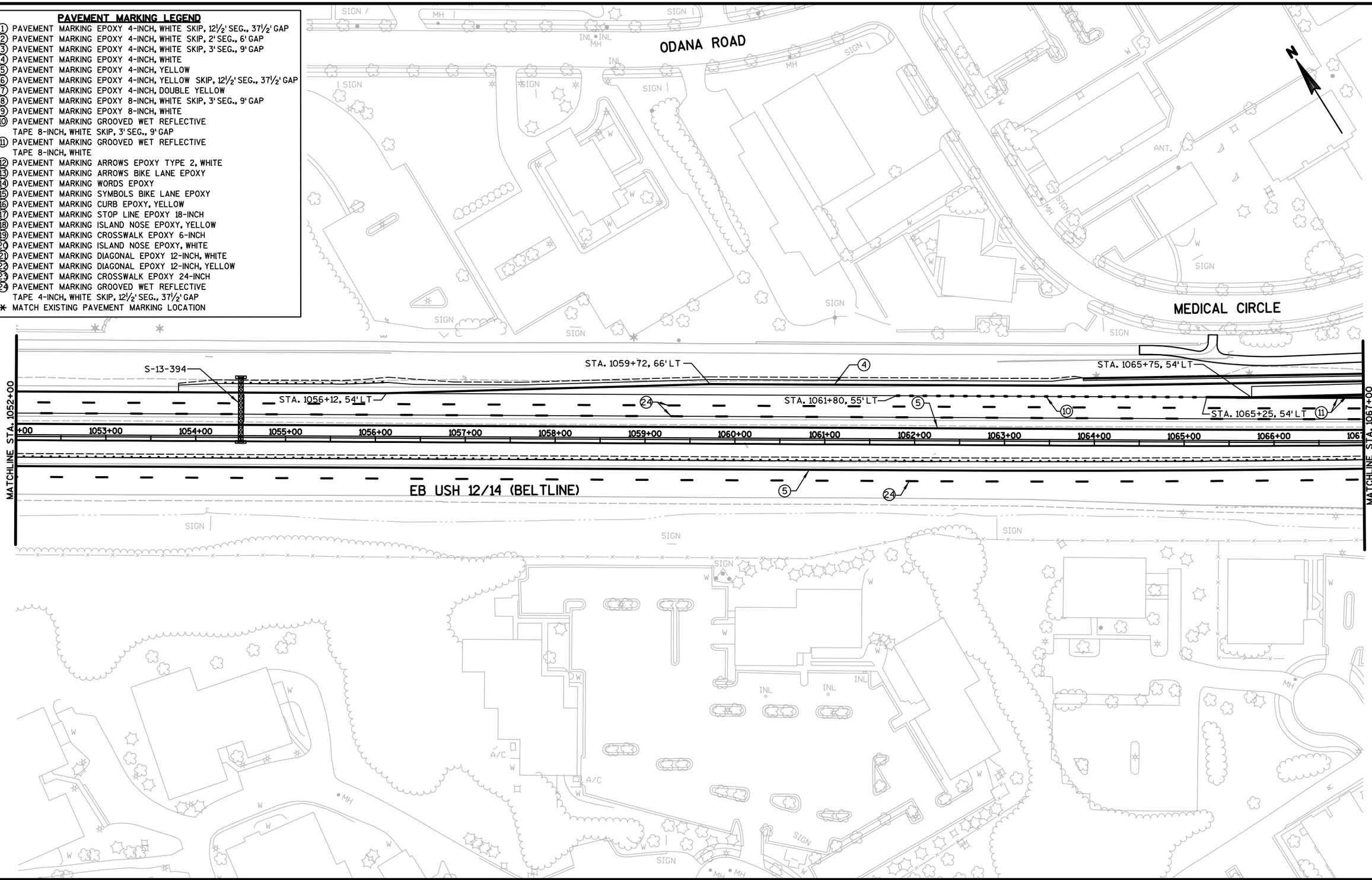
1038+00 1039+00 1040+00 1041+00 1042+00 1043+00 1044+00 1045+00 1046+00 1047+00 1048+00 1049+00 1050+00 1051+00 1052+00

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 12/14 (BELTLINE)	SHEET	E

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WISDOT/CADDS SHEET 42

PAVEMENT MARKING LEGEND

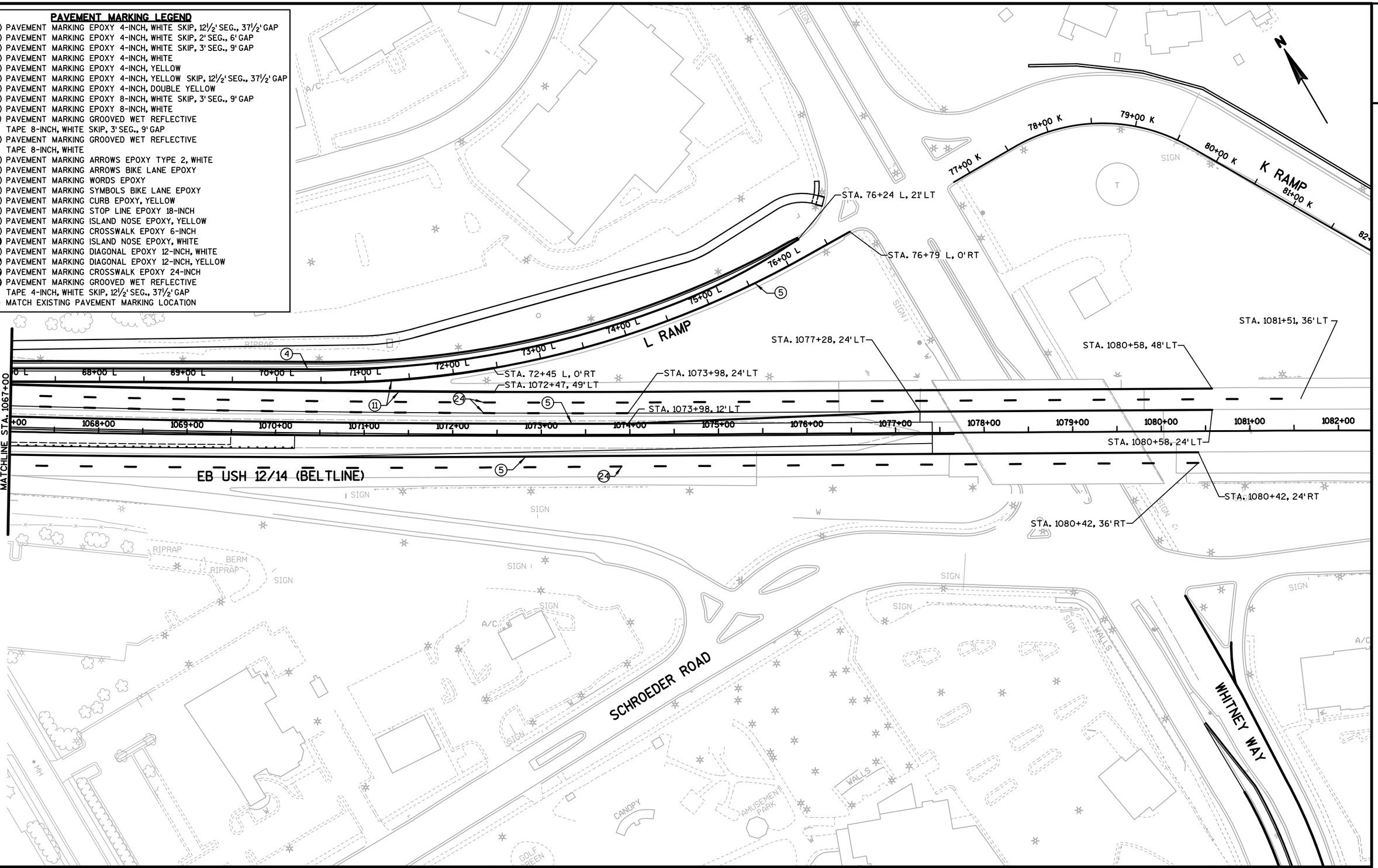
(1) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
(2) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
(3) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
(4) PAVEMENT MARKING EPOXY 4-INCH, WHITE
(5) PAVEMENT MARKING EPOXY 4-INCH, YELLOW
(6) PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
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(9) PAVEMENT MARKING EPOXY 8-INCH, WHITE
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(11) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
(12) PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
(13) PAVEMENT MARKING ARROWS BIKE LANE EPOXY
(14) PAVEMENT MARKING WORDS EPOXY
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(21) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
(22) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
(23) PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
(24) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 12/14 (BELTLINE)	SHEET 392	E

PAVEMENT MARKING LEGEND

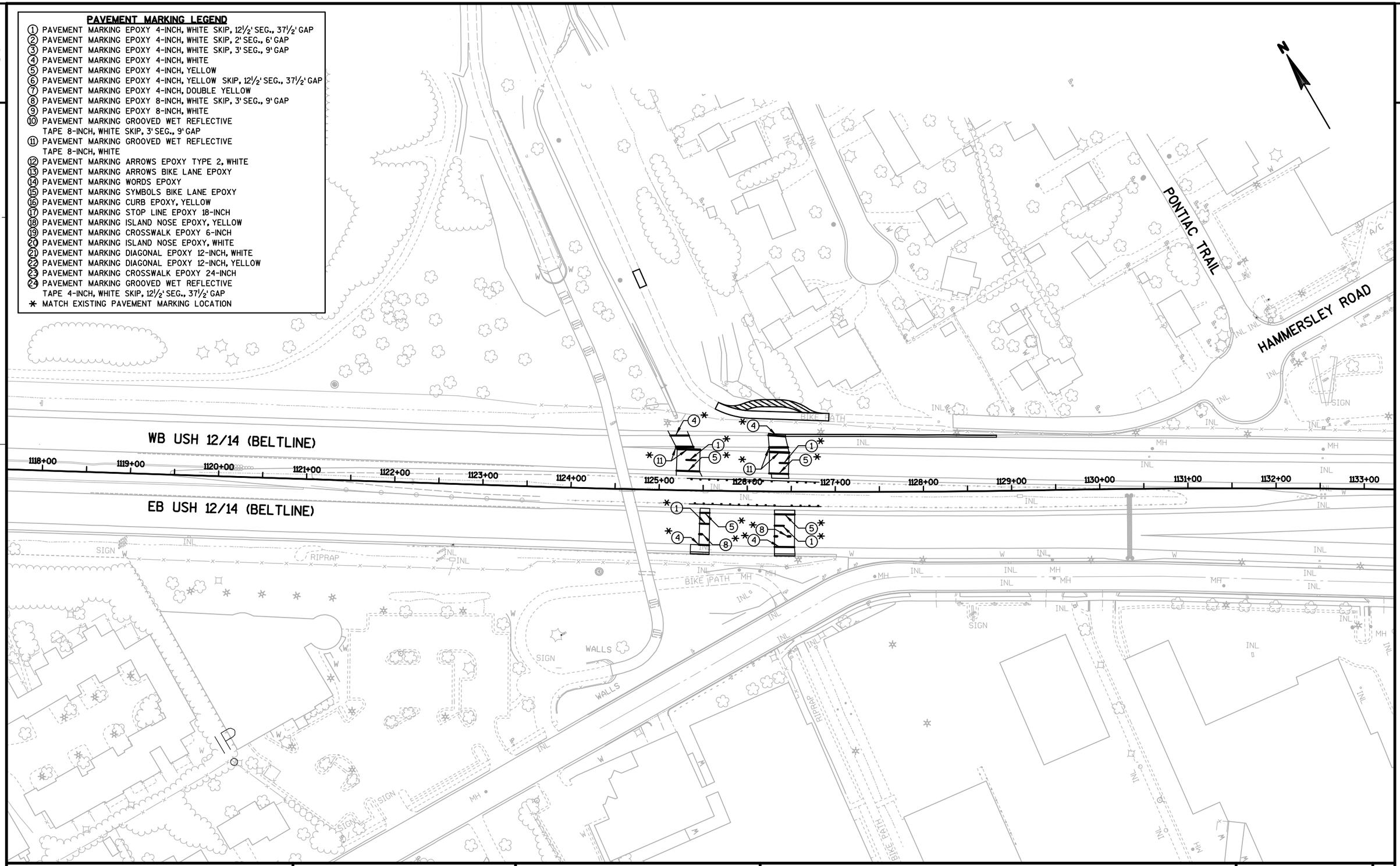
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(4) PAVEMENT MARKING EPOXY 4-INCH, WHITE
(5) PAVEMENT MARKING EPOXY 4-INCH, YELLOW
(6) PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
(7) PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
(8) PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
(9) PAVEMENT MARKING EPOXY 8-INCH, WHITE
(10) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
(11) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
(12) PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
(13) PAVEMENT MARKING ARROWS BIKE LANE EPOXY
(14) PAVEMENT MARKING WORDS EPOXY
(15) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
(16) PAVEMENT MARKING CURB EPOXY, YELLOW
(17) PAVEMENT MARKING STOP LINE EPOXY 18-INCH
(18) PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
(19) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
(20) PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
(21) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
(22) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
(23) PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
(24) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 12/14 (BELTLINE) AND L RAMP	SHEET 393 E

PAVEMENT MARKING LEGEND

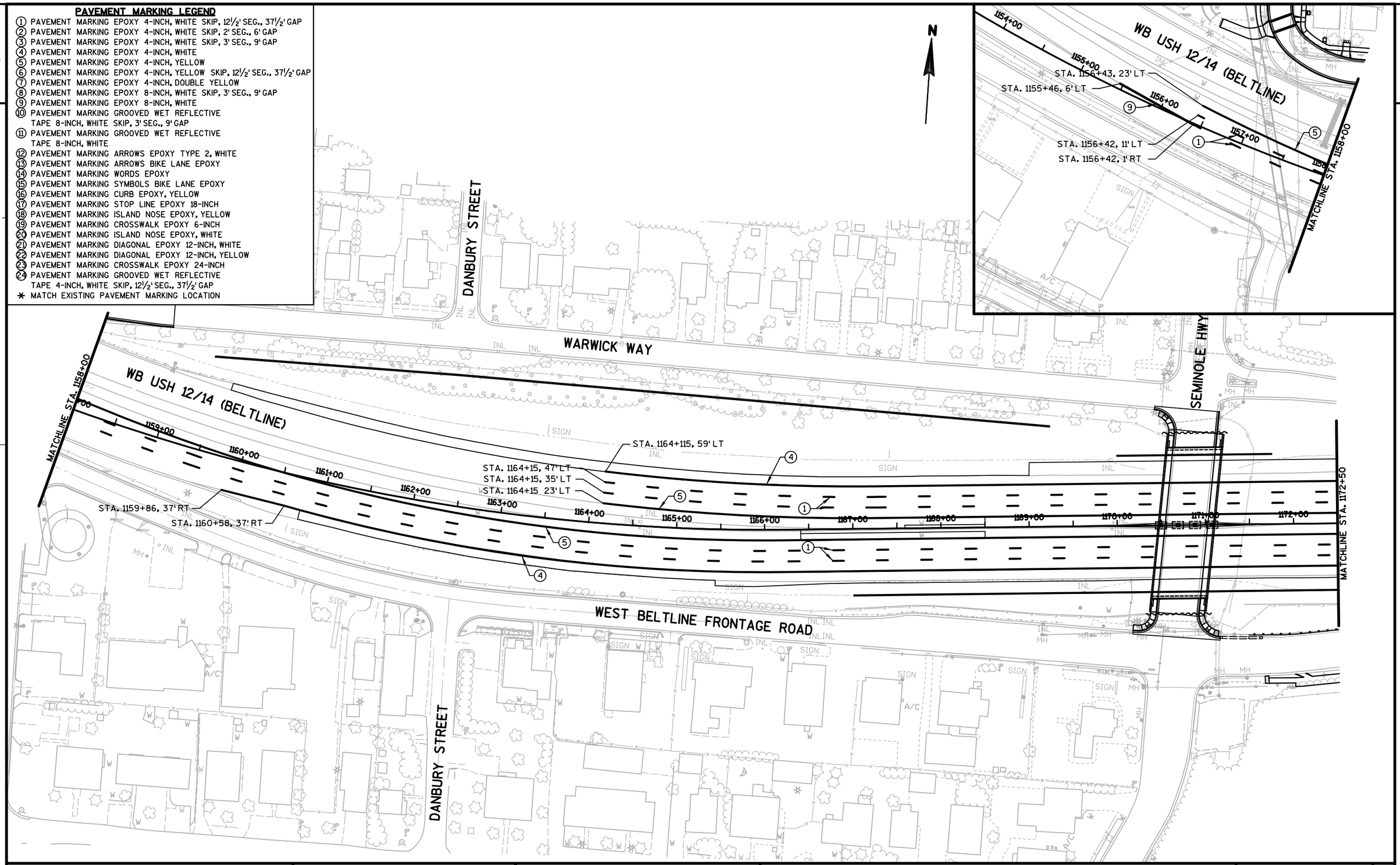
(1) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
(2) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
(3) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
(4) PAVEMENT MARKING EPOXY 4-INCH, WHITE
(5) PAVEMENT MARKING EPOXY 4-INCH, YELLOW
(6) PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
(7) PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
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(10) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
(11) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
(12) PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
(13) PAVEMENT MARKING ARROWS BIKE LANE EPOXY
(14) PAVEMENT MARKING WORDS EPOXY
(15) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
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(17) PAVEMENT MARKING STOP LINE EPOXY 18-INCH
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(19) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
(20) PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
(21) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
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(23) PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
(24) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
* MATCH EXISTING PAVEMENT MARKING LOCATION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 12/14 (BELTLINE)	SHEET 394	E

PAVEMENT MARKING LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
(2) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
(3) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
(4) PAVEMENT MARKING EPOXY 4-INCH, WHITE
(5) PAVEMENT MARKING EPOXY 4-INCH, YELLOW
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(8) PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
(9) PAVEMENT MARKING EPOXY 8-INCH, WHITE
(10) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
(11) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
(12) PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
(13) PAVEMENT MARKING ARROWS BIKE LANE EPOXY
(14) PAVEMENT MARKING WORDS EPOXY
(15) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
(16) PAVEMENT MARKING CURB EPOXY, YELLOW
(17) PAVEMENT MARKING STOP LINE EPOXY 18-INCH
(18) PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
(19) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
(20) PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
(21) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
(22) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
(23) PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
(24) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION



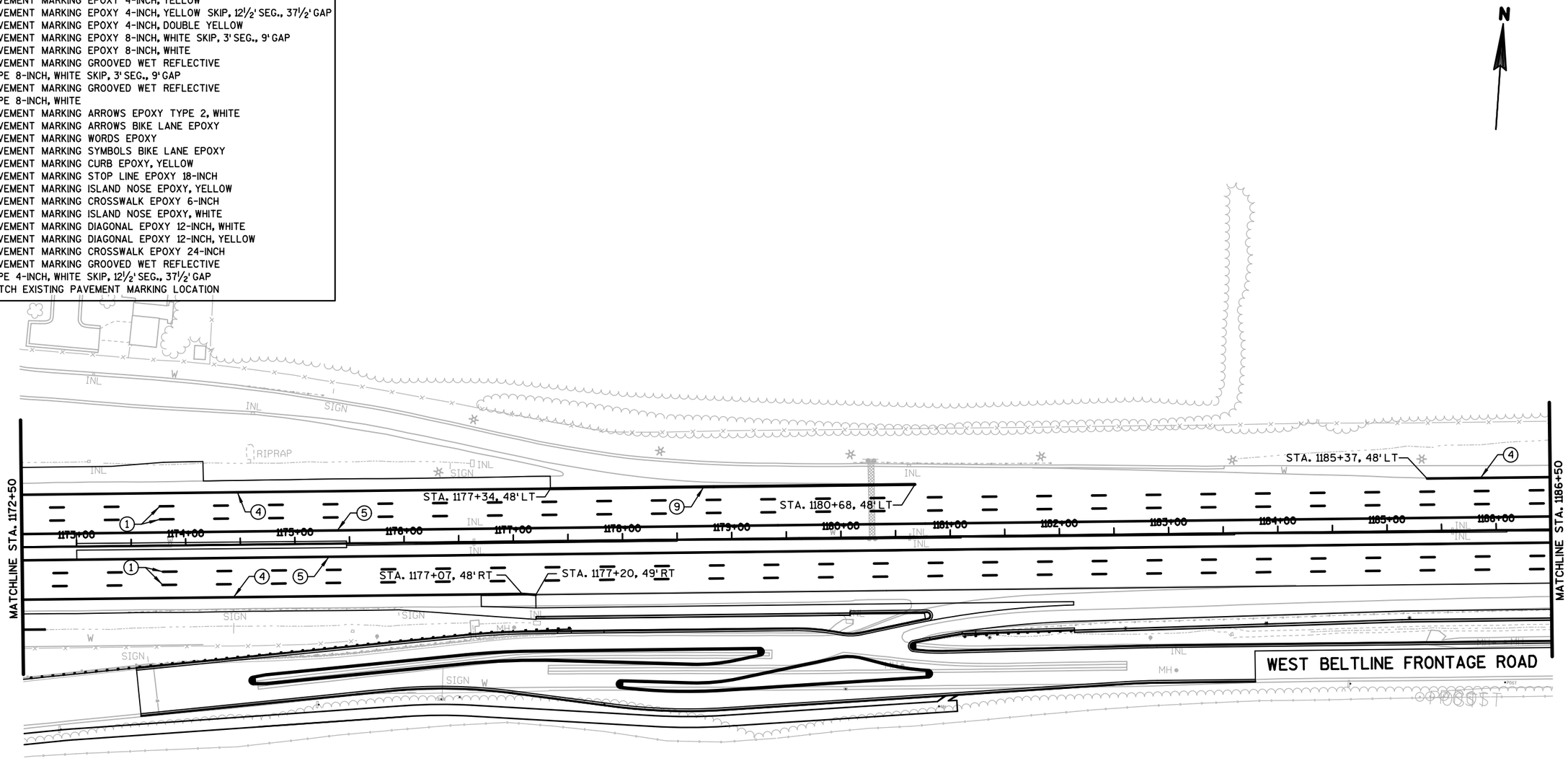
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 12/14 (BELTLINE)	SHEET	E

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PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
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8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
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12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
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21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

✱ MATCH EXISTING PAVEMENT MARKING LOCATION



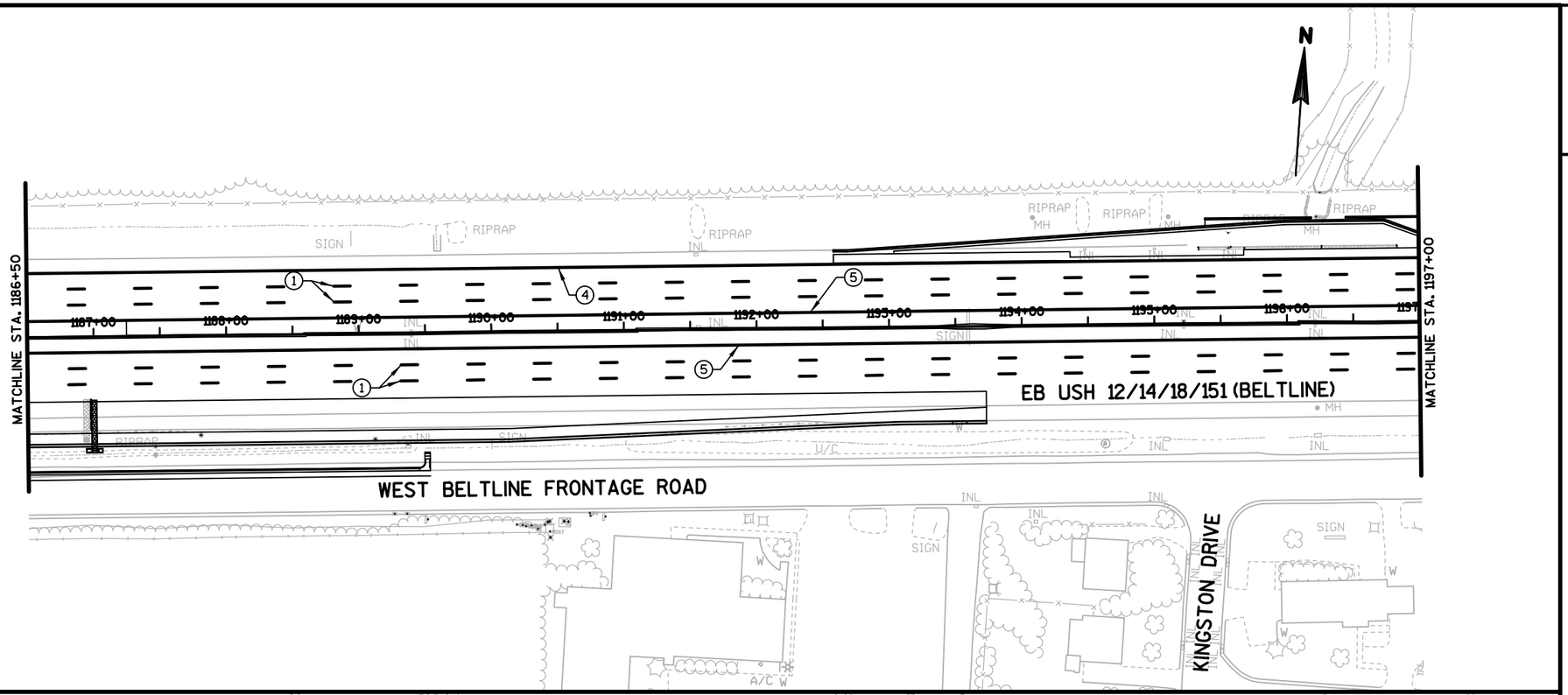
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 12/14 (BELTLINE)	SHEET 396	E

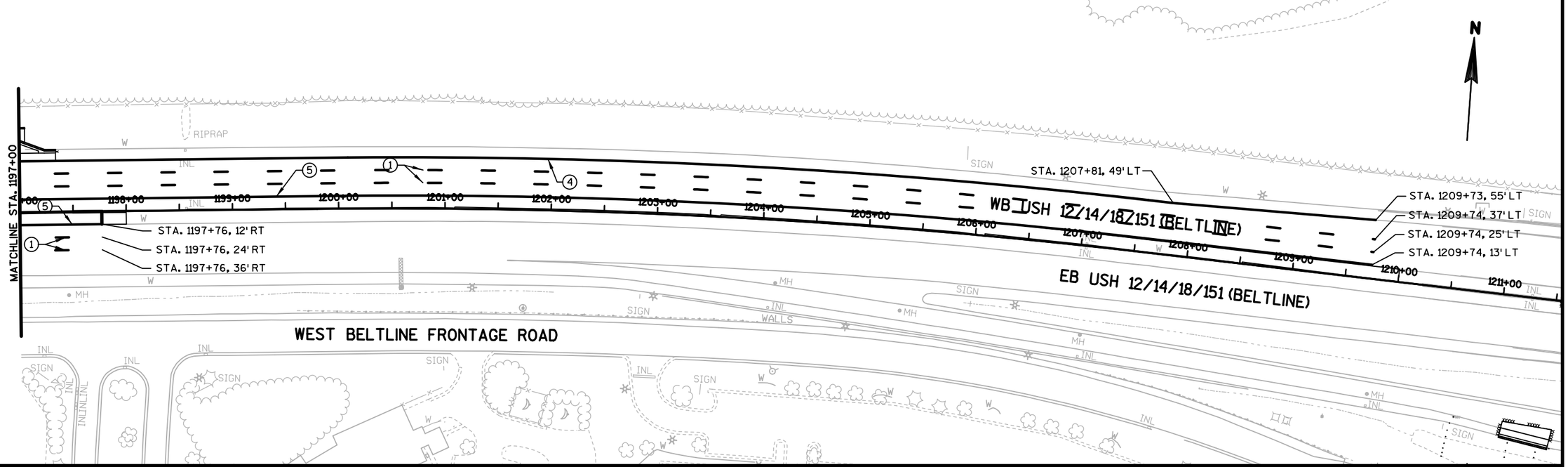
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PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
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12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
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17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

✱ MATCH EXISTING PAVEMENT MARKING LOCATION





PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 12/14 (BELTLINE)	SHEET 397	E

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
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5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
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22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

* MATCH EXISTING PAVEMENT MARKING LOCATION

2

2

N

SEMINOLE HIGHWAY

WARWICK WAY

WEST BELTLINE FRONTAGE ROAD

EB USH 12/14/18/151 (BELTLINE)

WB USH 12/14/18/151 (BELTLINE)

WB USH 12/14/18/151 OFF RAMP

R-WAL

SIGN

STA. 8+94 SH, 18' LT

STA. 8+94 SH, 7' LT

STA. 8+94 SH, 3' RT

STA. 8+94 SH

STA. 9+22 SH

STA. 9+99 SH

STA. 9+06 SH

STA. 10+19 SH, 3' RT

STA. 10+19 SH, 7' LT

STA. 10+75 SH, 2' LT

STA. 10+75 SH, 8' RT

STA. 10+87 SH

STA. 10+93 SH

STA. 11+05 SH

STA. 11+05 SH, 18' LT

STA. 11+05 SH, 2' LT

STA. 11+05 SH, 8' RT

STA. 11+05 SH, 18' RT

7+00 SH

8+00 SH

9+00 SH

12+00 SH

+50 SH

70+00 SF

72+00 SF

1169+00

1170+00

1171+00

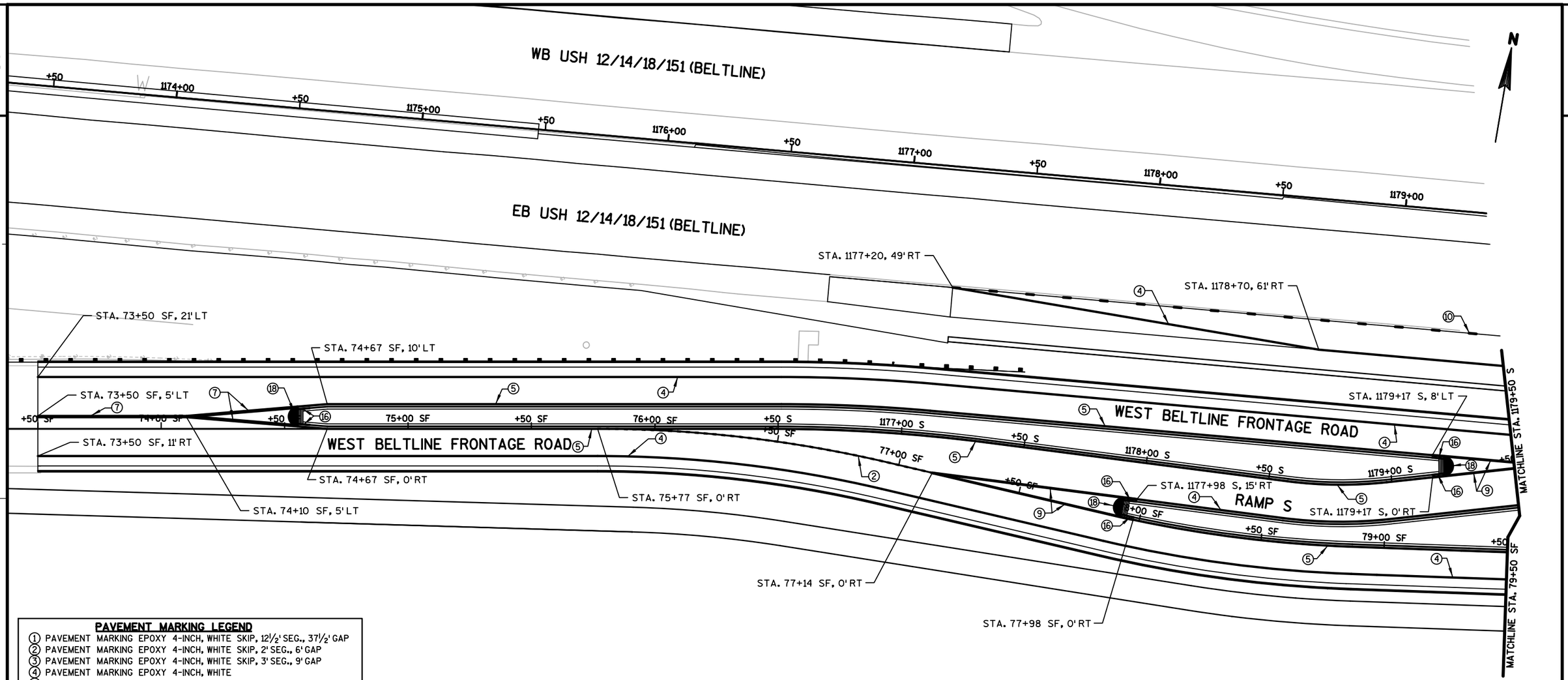
1172+00

64+00 WW

+50

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - SEMINOLE HIGHWAY (SH LINE)	SHEET	E

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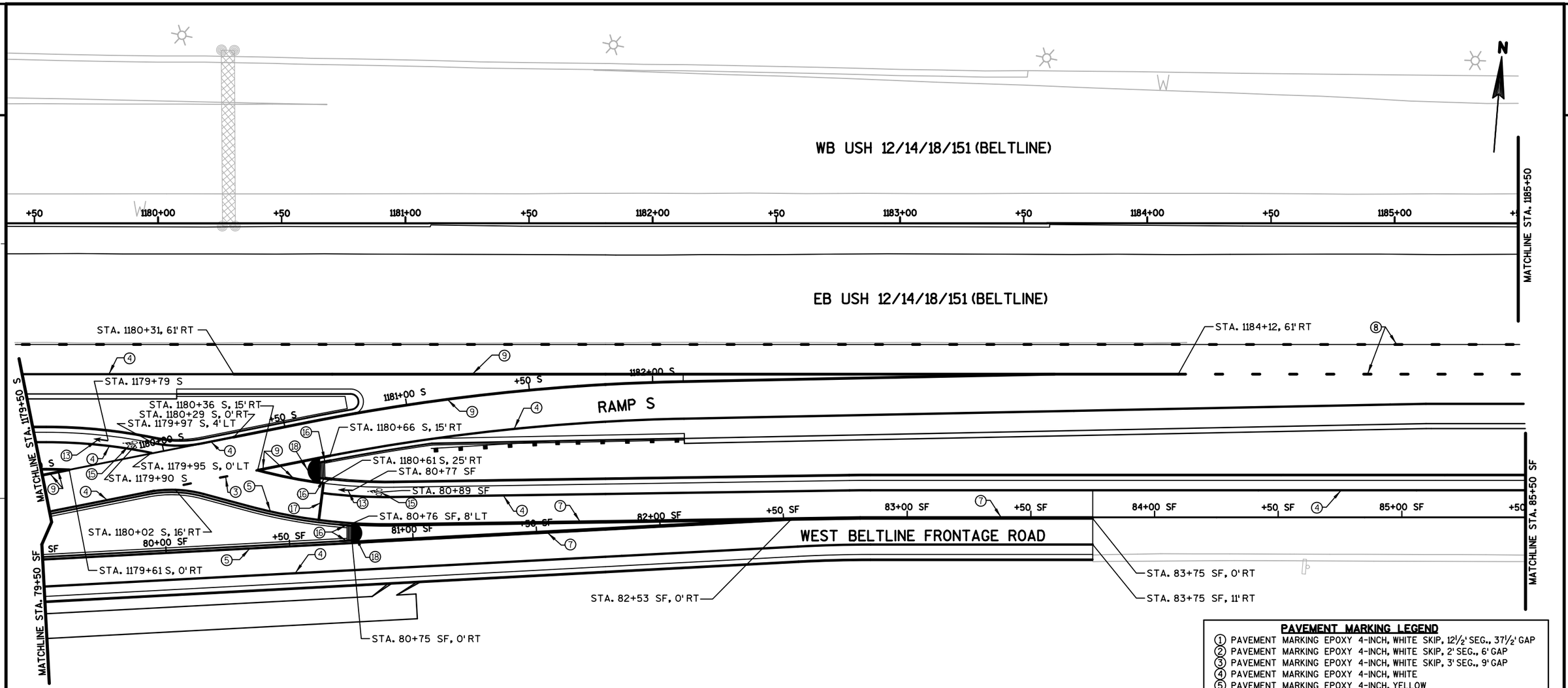


PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
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4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
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7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
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22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

* MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - WEST BELTLINE FRONTAGE ROAD AND S RAMP	SHEET 399	E



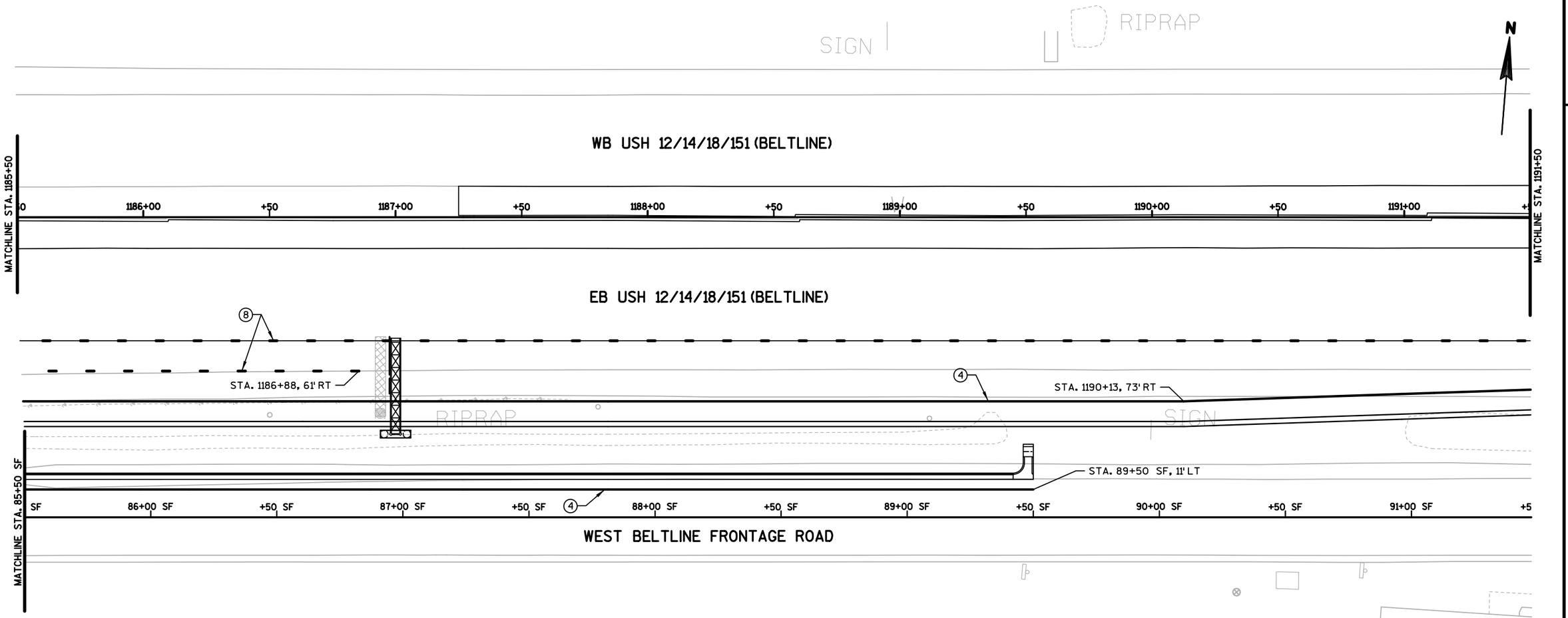
PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
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24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - WEST BELTLINE FRONTAGE ROAD AND S RAMP	SHEET 400	E

2



PAVEMENT MARKING LEGEND

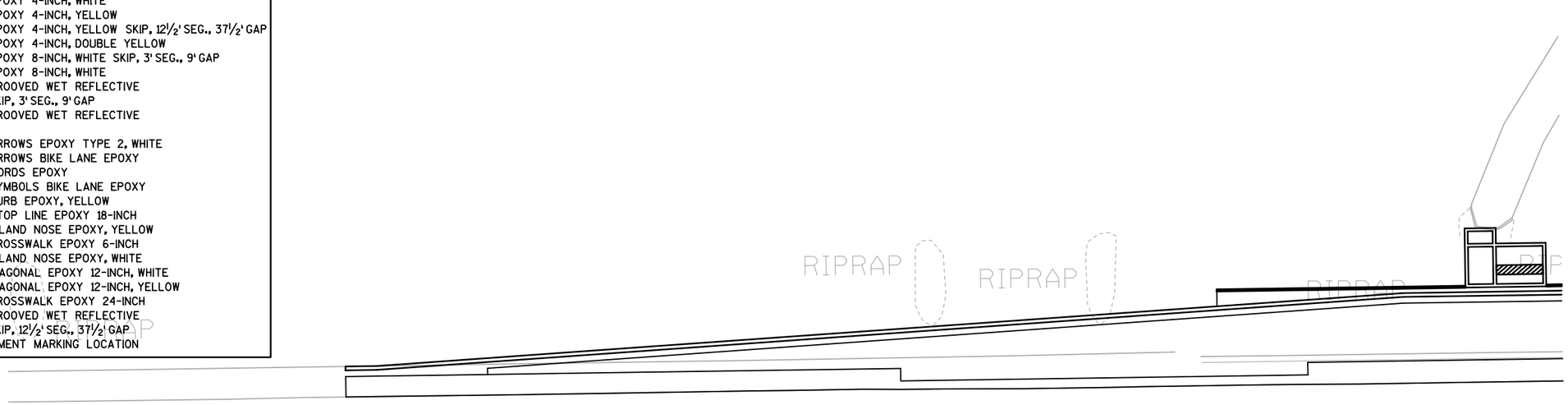
1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
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14. PAVEMENT MARKING WORDS EPOXY
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20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

* MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - WEST BELTLINE FRONTAGE ROAD	SHEET 401	E

PAVEMENT MARKING LEGEND

① PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
② PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
③ PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
④ PAVEMENT MARKING EPOXY 4-INCH, WHITE
⑤ PAVEMENT MARKING EPOXY 4-INCH, YELLOW
⑥ PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
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⑫ PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
⑬ PAVEMENT MARKING ARROWS BIKE LANE EPOXY
⑭ PAVEMENT MARKING WORDS EPOXY
⑮ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
⑯ PAVEMENT MARKING CURB EPOXY, YELLOW
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⑳ PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
㉑ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
㉒ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
㉓ PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
㉔ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - WEST BELTLINE FRONTAGE ROAD	SHEET 402	E

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

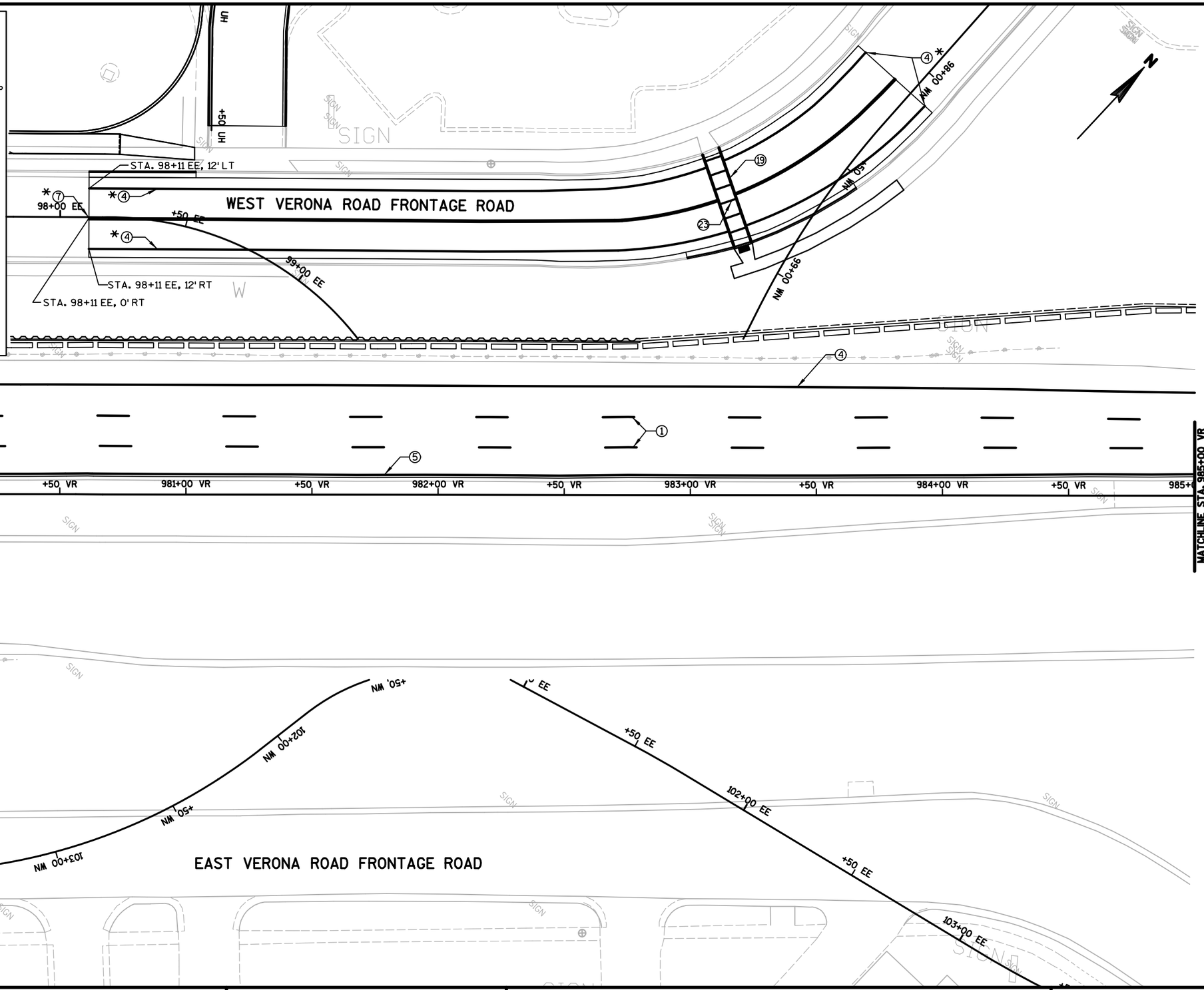
✳ MATCH EXISTING PAVEMENT MARKING LOCATION

SOUTHWEST COMMUTER BIKE PATH
FREEPORT CONNECTOR
WEST VERONA ROAD FRONTAGE ROAD
WB USH 18/151 (VERONA ROAD)
EB USH 18/151 (VERONA ROAD)
EAST VERONA ROAD FRONTAGE ROAD
SIGN
STA. 975+16 VR, 49' LT
STA. 975+16 VR, 36' LT
STA. 975+15 VR, 24' LT
STA. 975+15 VR, 13' LT
MATCHLINE STA. 979+00 VR

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 18/151 (VERONA ROAD)	SHEET 403	E

PAVEMENT MARKING LEGEND

① PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
② PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
③ PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
④ PAVEMENT MARKING EPOXY 4-INCH, WHITE
⑤ PAVEMENT MARKING EPOXY 4-INCH, YELLOW
⑥ PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
⑦ PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
⑧ PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑨ PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑩ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑪ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
⑫ PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
⑬ PAVEMENT MARKING ARROWS BIKE LANE EPOXY
⑭ PAVEMENT MARKING WORDS EPOXY
⑮ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
⑯ PAVEMENT MARKING CURB EPOXY, YELLOW
⑰ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑱ PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑲ PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑳ PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
㉑ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
㉒ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
㉓ PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
㉔ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 18/151 (VERONA ROAD) AND FRONTAGE RD	SHEET 404	E

2

2

SIGN

SUMMIT ROAD

CANOPY

SIGN

SIGN

STA. 986+85 VR, 41' LT

STA. 987+15 VR, 31' LT

STA. 987+16 VR, 20' LT

STA. 987+16 VR, 9' LT

WB USH 18/151 (VERONA ROAD)

MATCHLINE STA. 985+00 VR

0 VR

+50 VR

986+00 VR

+50 VR

987+00 VR

+50 VR

988+00 VR

STA. 988+71 VR

STA. 989+52 VR

STA. 990+32 VR

STA. 990+52 VR, 49' LT

STA. 989+52 VR

+50 VR

989+00 VR

+50 VR

990+00 VR

+50 VR

MATCHLINE STA. 991+00 VR

STA. 988+71 VR

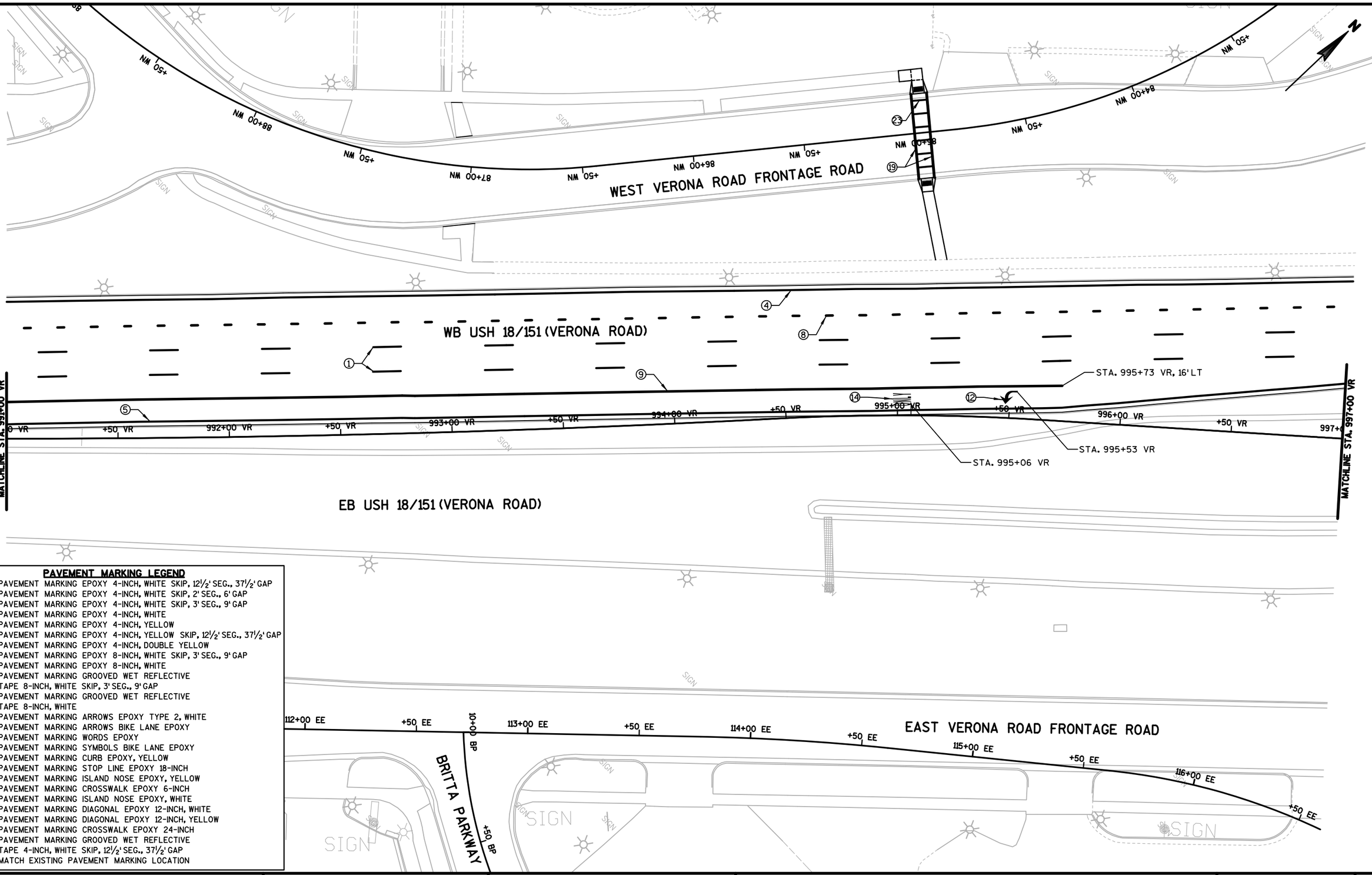
EB USH 18/151 (VERONA ROAD)

ATTICUS WAY

SIGN

SIGN

SIGN



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 18/151 (VERONA ROAD)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\024513_pm_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

STA. 997+80 VR, 76'LT
STA. 997+80 VR, 65'LT
STA. 997+80 VR, 54'LT
WB USH 18/151
(VERONA ROAD)
STA. 998+79 VR, 38'LT
STA. 997+80 VR, 43'LT

SB S MIDVALE
BOULEVARD

NB S MIDVALE
BOULEVARD

MATCHLINE STA. 997+00 VR

997+00 VR
+50 VR
998+00 VR
+50 VR
999+00 VR
+50 VR
1000+00 VR
+50 VR
1001+00 VR
+50 VR
1002+00 VR
+50 VR
1003+00 VR

EB VERONA ROAD

1143+00
+50
1144+00
+50
1145+00
+50
1146+00

EB USH 12/14
WB USH 12/14

SIGN

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

* MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - USH 18/151 (VERONA ROAD)	SHEET 407	E

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

✱ MATCH EXISTING PAVEMENT MARKING LOCATION

N

WHENONA DRIVE

WARWICK WAY

50+00 WW
+50 WW
51+00 WW
52+00 WW
53+00 WW
54+00 WW
55+00 WW
56+00 WW

STA. 51+58 WW, 12' LT
STA. 51+74 WW, 12' LT
STA. 51+61 WW, 12' RT
STA. 51+72 WW, 12' RT

N-13-2

WB USH 12/14/18/151 (BELTLINE)
EB USH 12/14/18/151 (BELTLINE)

1158+00
1159+00
1160+00
1161+00

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - WARWICK WAY	SHEET 408	E

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

✳ MATCH EXISTING PAVEMENT MARKING LOCATION

FREEPORT CONNECTION TEMP
THURSTON LANE TEMP
CARLING DRIVEWAY
SW COMMUTER BIKE PATH TEMP
EAST VERONA ROAD FRONTAGE ROAD
EB USH 18/151 (VERONA ROAD)
WB USH 18/151 (VERONA ROAD)
MATCHLINE STA. 17+00FP

STA. 10+91TL, 20.8'RT
STA. 10+85TL, 17.1'RT
STA. 10+80TL, 16'RT
STA. 10+81TL, 0'RT
STA. 10+90TL, 16'RT
STA. 10+83TL, 16'RT
STA. 10+27TL, 0'RT
STA. 13+70FP, 12'LT
STA. 10+30TL, 18.6'LT
STA. 13+01FP, 12'LT
STA. 13+87FP, 0'RT
STA. 13+72FP, 12'RT
STA. 12+03FP, 12'LT
STA. 11+77FP, 0'RT
STA. 11+36FP, 12'RT
STA. 41+34FP, 41.5'LT
STA. 14+56FP, 62.9'LT
STA. 14+31FP, 6.6' LT
STA. 14+59FP, 18.2'LT
STA. 14+75FP 21.3'LT
STA. 14+52FP, 5.1'RT
STA. 14+91FP, 44.1'LT
STA. 14+91FP, 14.4'LT
STA. 14+88FP, 39'RT
STA. 15+20FP, 5.5' RT
STA. 9+99BI, 0'RT
PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 3' SEG., 9' GAP
STA. 10+61BI, 32.8'LT
STA. 10+86BI, 5'LT
STA. 11+05BI, 26.9'LT
PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 3' SEG., 9' GAP
STA. 15+80FP, 17.5'RT
STA. 15+80FP, 5.5'RT
STA. 15+80FP, 5.5'LT
STA. 15+80FP, 17.5'LT
STA. 16+25FP, 17.5'RT
STA. 16+25FP, 5.5'RT
STA. 16+25FP, 5.5'LT
STA. 16+25FP, 17.5'LT
STA. 16+74FP, 5.5'RT
STA. 16+74FP, 17.5'RT
STA. 16+74FP, 5.5'LT
STA. 16+74FP, 17.5'LT

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - FREEPORT CONNECTION TEMP (FP)	SHEET 409	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PAVEMENT MARKING\024504_PM(FREEPORT).DWG PLOT DATE : January 24, 2013 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42

2

2

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

✳ MATCH EXISTING PAVEMENT MARKING LOCATION

STA. 15+75BI, 0'RT
16+00BI
5.0'
PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 3' SEG., 9' GAP
SW COMMUTER BIKE PATH TEMP
15+00BI
5.0'
STA. 18+18FP, 15.5'LT
STA. 18+31FP, 3.3'LT
STA. 19+63FP, 13' LT
STA. 19+86FP, 40.5'LT
STA. 20+03FP, 46.7'LT
93+00EE
94+00EE
95+00EE
96+00EE
97+00EE
18+00FP
19+00FP
20+00FP
21+00FP
21+94FP
12.0'
(10' SPACING)
STA. 18+45FP, 5.5' RT
FREEPORT CONNECTION TEMP
MATCHLINE STA. 17+00FP
STA. 20+17FP, 0'RT
STA. 20+17FP, 12'RT
STA. 20+71FP, 0'RT
STA. 21+13FP, 12'RT
WEST VERONA ROAD FRONTAGE ROAD
WB USH 18/151 (VERONA ROAD)
EB USH 18/151 (VERONA ROAD)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - FREEPORT CONNECTION TEMP (FP)	SHEET 410	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PAVEMENT MARKING\024504_PM(FREEPORT).DWG PLOT DATE : January 24, 2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1:40_XREF

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

* MATCH EXISTING PAVEMENT MARKING LOCATION

EAST BELTLINE FRONTAGE ROAD

N

12+26NP
12+00NP
11+00NP
10+00NP
NIEMANN PLACE DRIVEWAY
STA. 18+89BP, 13'LT
STA. 18+95BP, 13'LT
STA. 17+96BP, 0'RT
19+00BP
20+00BP
21+00BP
STA. 19+81BP, 0'RT
18+00BP
BRITTA PARKWAY
STA. 18+95BP, 0'RT
STA. 18+95BP, 13'RT
STA. 18+89BP, 0'RT
STA. 18+89BP, 13'RT
17+00BP
16+00BP
15+00BP
BRITTA DRIVE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - BRITTA PARKWAY (BP)	SHEET 411	E

PAVEMENT MARKING LEGEND

① PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
② PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
③ PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
④ PAVEMENT MARKING EPOXY 4-INCH, WHITE
⑤ PAVEMENT MARKING EPOXY 4-INCH, YELLOW
⑥ PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
⑦ PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
⑧ PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑨ PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑩ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑪ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
⑫ PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
⑬ PAVEMENT MARKING ARROWS BIKE LANE EPOXY
⑭ PAVEMENT MARKING WORDS EPOXY
⑮ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
⑯ PAVEMENT MARKING CURB EPOXY, YELLOW
⑰ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑱ PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑲ PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑳ PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
㉑ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
㉒ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
㉓ PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
㉔ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
* MATCH EXISTING PAVEMENT MARKING LOCATION

* AT REMOVING ASPHALTIC INTERSECTION RUMBLE STRIP LOCATIONS, PAVEMENT MARKING REQ'D TO MATCH EXISTING PAVEMENT MARKING CONDITIONS. (SEE MISCELLANEOUS QUANTITIES)

N

CTH M

98+00 MPB
+50 MPB
99+00 MPB
+50 MPB
100+00 MPB
101+00 MPB

CTH PB

98+00 PB
+50 PB
99+00 PB
+50 PB
100+00 PB
+50 PB
101+00 PB
+50 PB
102+00 PB
+50 PB
103+00 PB
+50 PB

STA. 100+44 PB, 43'LT
STA. 100+45 PB, 26'LT
STA. 100+46 PB, 14'LT
STA. 100+46 PB, 2'LT
STA. 100+74 PB
STA. 101+14 PB
STA. 102+19 PB
STA. 103+32 PB
MATCHLNE STA. 103+50 PB

12'
12'
10'

STA. 100+53 MPB, 3'LT
STA. 100+53 MPB, 17'LT
STA. 100+67 MPB, 50'LT
STA. 100+85 MPB, 33'LT
STA. 100+83 MPB, 17'LT
MATCHLNE STA. 101+00 MPB

SIGN

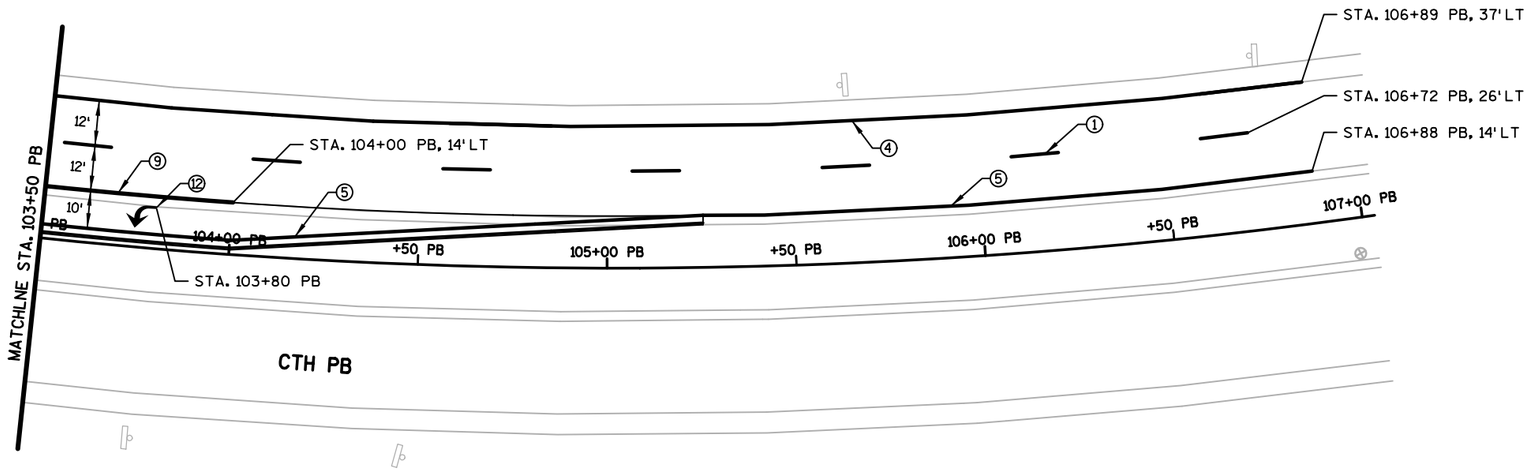
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - CTH PB AT CTH M	SHEET	E

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* AT REMOVING ASPHALTIC INTERSECTION RUMBLE STRIP LOCATIONS, PAVEMENT MARKING REQ'D TO MATCH EXISTING PAVEMENT MARKING CONDITIONS. (SEE MISCELLANEOUS QUANTITIES)



PAVEMENT MARKING LEGEND

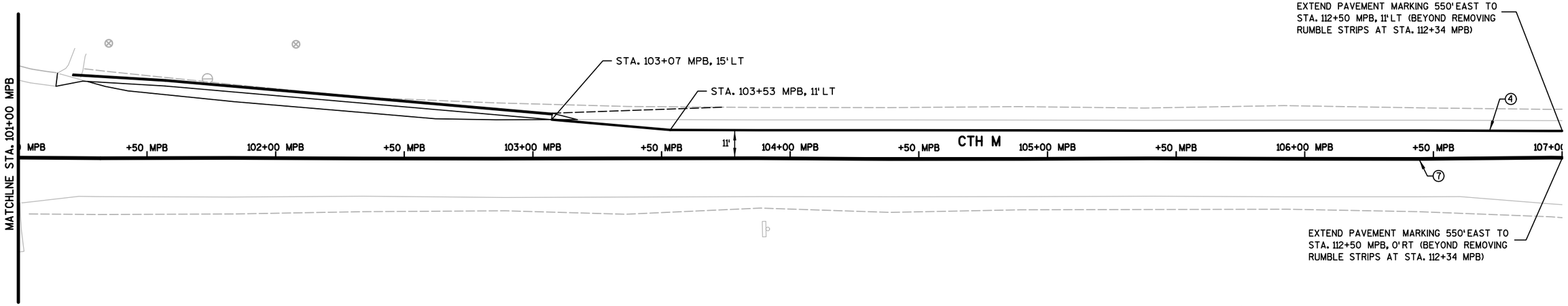
① PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
② PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
③ PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
④ PAVEMENT MARKING EPOXY 4-INCH, WHITE
⑤ PAVEMENT MARKING EPOXY 4-INCH, YELLOW
⑥ PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
⑦ PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
⑧ PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑨ PAVEMENT MARKING EPOXY 8-INCH, WHITE
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⑪ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
⑫ PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
⑬ PAVEMENT MARKING ARROWS BIKE LANE EPOXY
⑭ PAVEMENT MARKING WORDS EPOXY
⑮ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
⑯ PAVEMENT MARKING CURB EPOXY, YELLOW
⑰ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑱ PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
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⑳ PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
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* MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - CTH PB AT CTH M	SHEET 413	E

2

N

* AT REMOVING ASPHALTIC INTERSECTION RUMBLE STRIP LOCATIONS, PAVEMENT MARKING REQ'D TO MATCH EXISTING PAVEMENT MARKING CONDITIONS. (SEE MISCELLANEOUS QUANTITIES)



PAVEMENT MARKING LEGEND

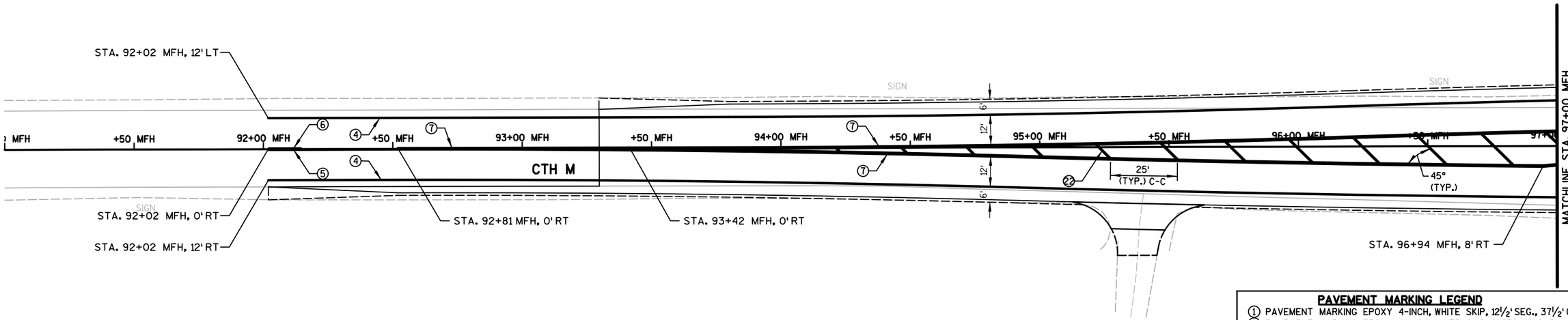
1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½'SEG., 37½'GAP
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19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
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22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½'SEG., 37½'GAP

* MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - CTH M AT CTH PB	SHEET 414	E

2

N

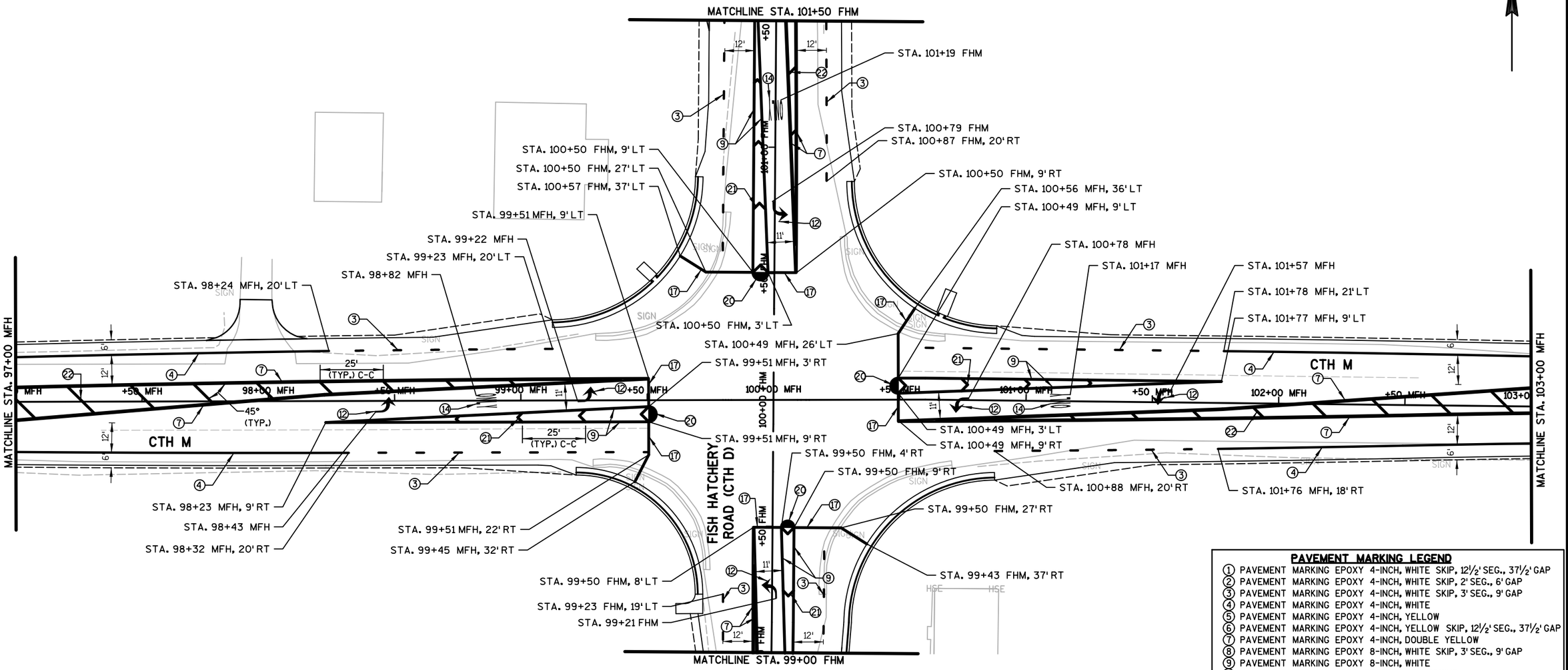


PAVEMENT MARKING LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
(2) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
(3) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
(4) PAVEMENT MARKING EPOXY 4-INCH, WHITE
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(11) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
(12) PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
(13) PAVEMENT MARKING ARROWS BIKE LANE EPOXY
(14) PAVEMENT MARKING WORDS EPOXY
(15) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
(16) PAVEMENT MARKING CURB EPOXY, YELLOW
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(18) PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
(19) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
(20) PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
(21) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
(22) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
(23) PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
(24) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - CTH M AT FISH HATCHERY	SHEET 415	E

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PAVEMENT MARKING LEGEND

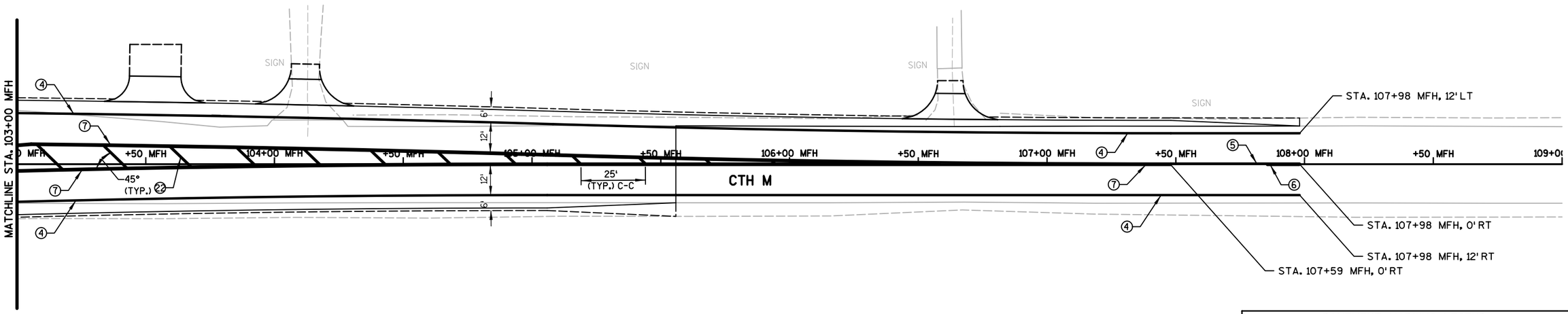
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✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - CTH M AT FISH HATCHERY	SHEET 416	E

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N



PAVEMENT MARKING LEGEND

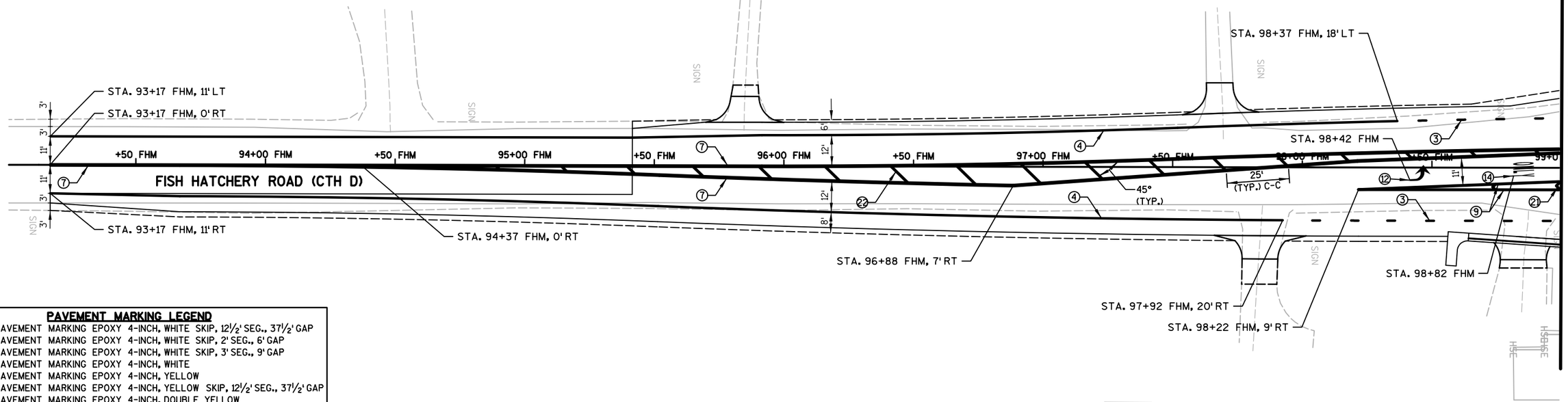
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✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - CTH M AT FISH HATCHERY	SHEET 417	E

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PAVEMENT MARKING LEGEND

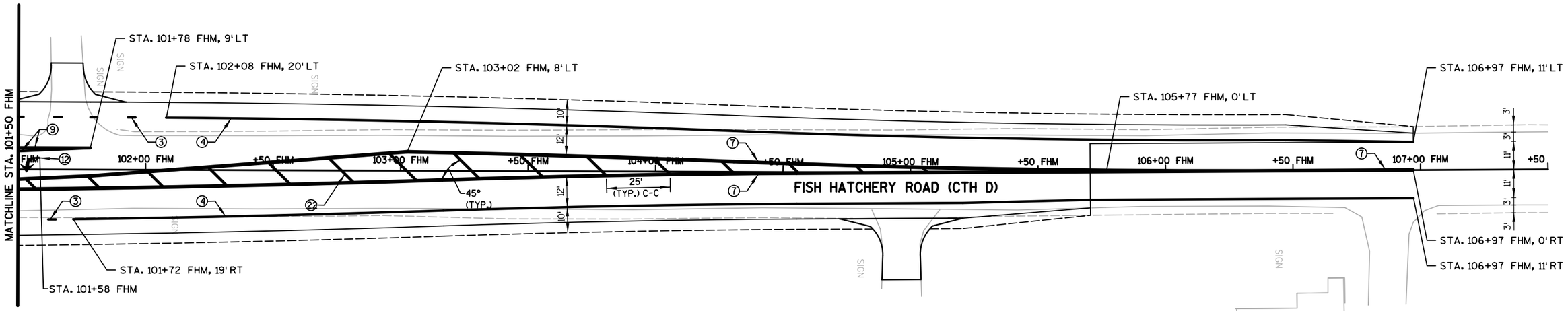
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✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - FISH HATCHERY AT CTH M	SHEET 418	E

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PAVEMENT MARKING LEGEND

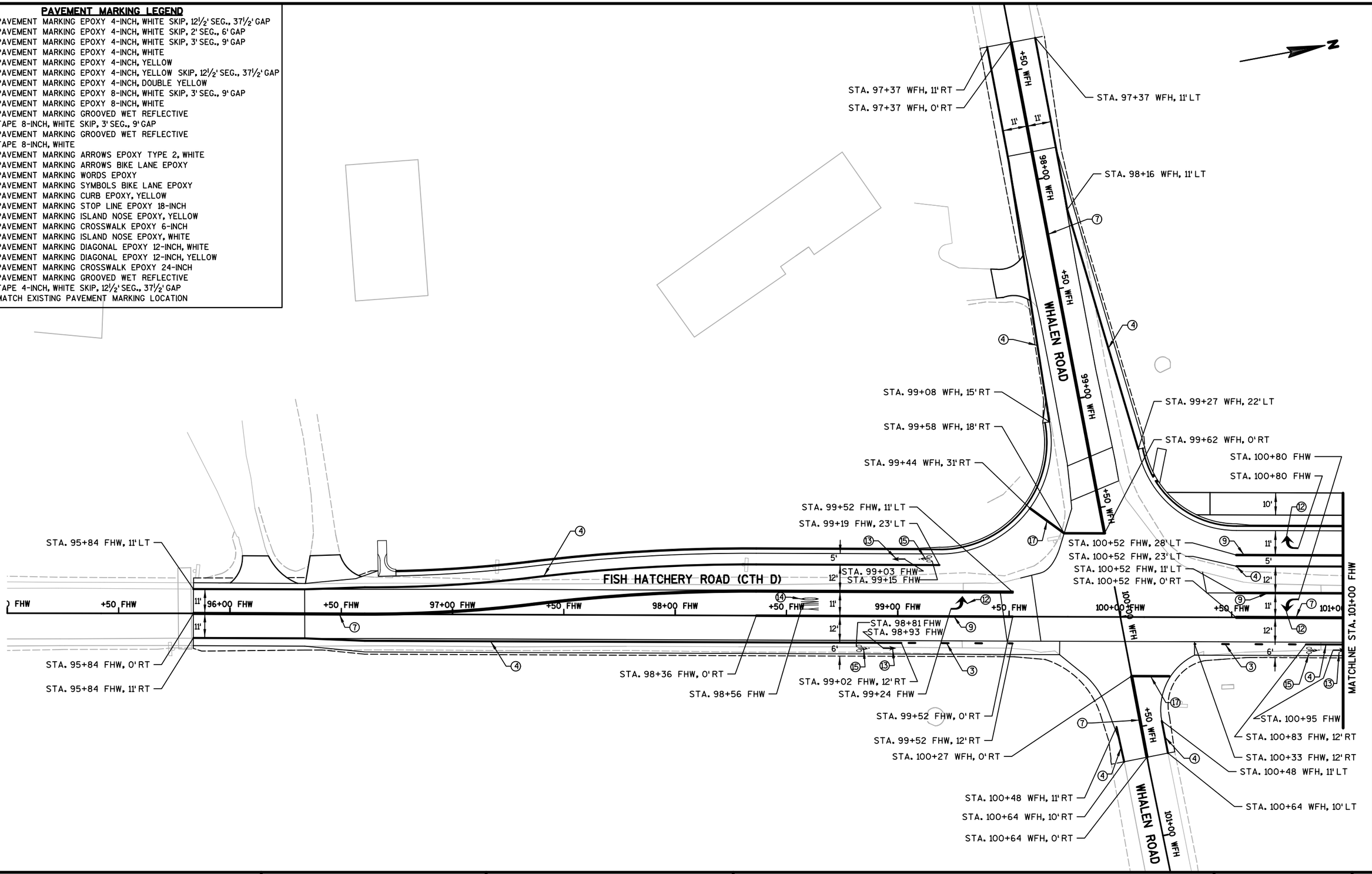
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✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - FISH HATCHERY AT CTH M	SHEET 419	E

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PAVEMENT MARKING LEGEND

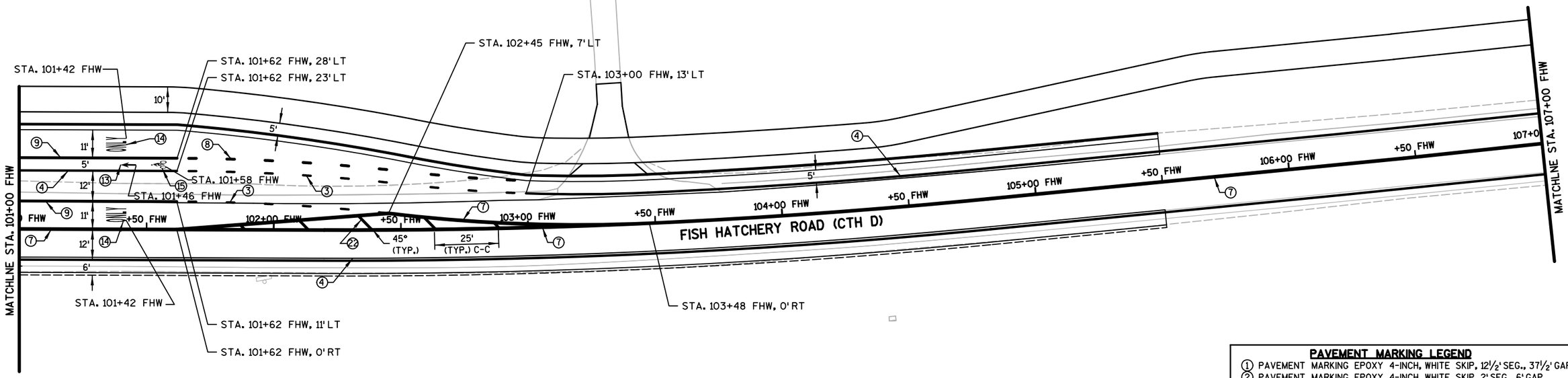
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✱ MATCH EXISTING PAVEMENT MARKING LOCATION



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - FISH HATCHERY AT WHALEN	SHEET 420	E

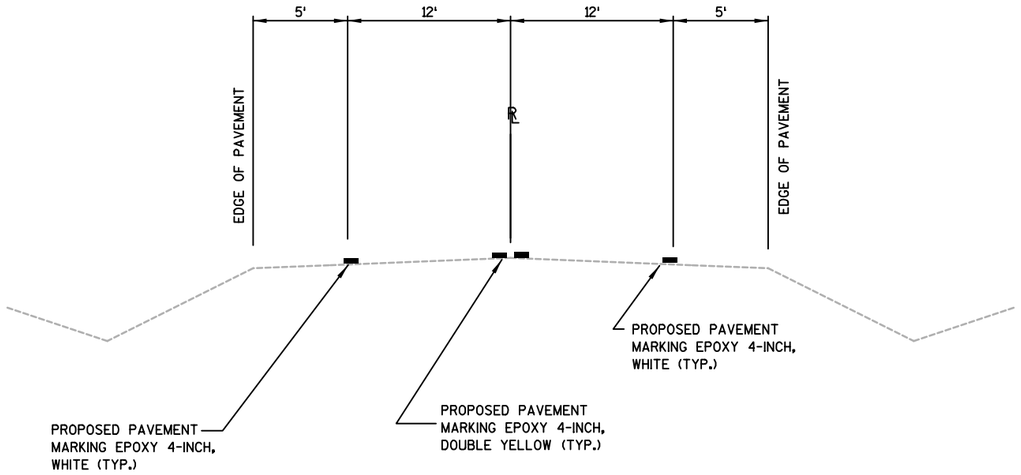
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PAVEMENT MARKING LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
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(11) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
(12) PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
(13) PAVEMENT MARKING ARROWS BIKE LANE EPOXY
(14) PAVEMENT MARKING WORDS EPOXY
(15) PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
(16) PAVEMENT MARKING CURB EPOXY, YELLOW
(17) PAVEMENT MARKING STOP LINE EPOXY 18-INCH
(18) PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
(19) PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
(20) PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
(21) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
(22) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
(23) PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
(24) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - FISH HATCHERY AT WHALEN	SHEET 421	E

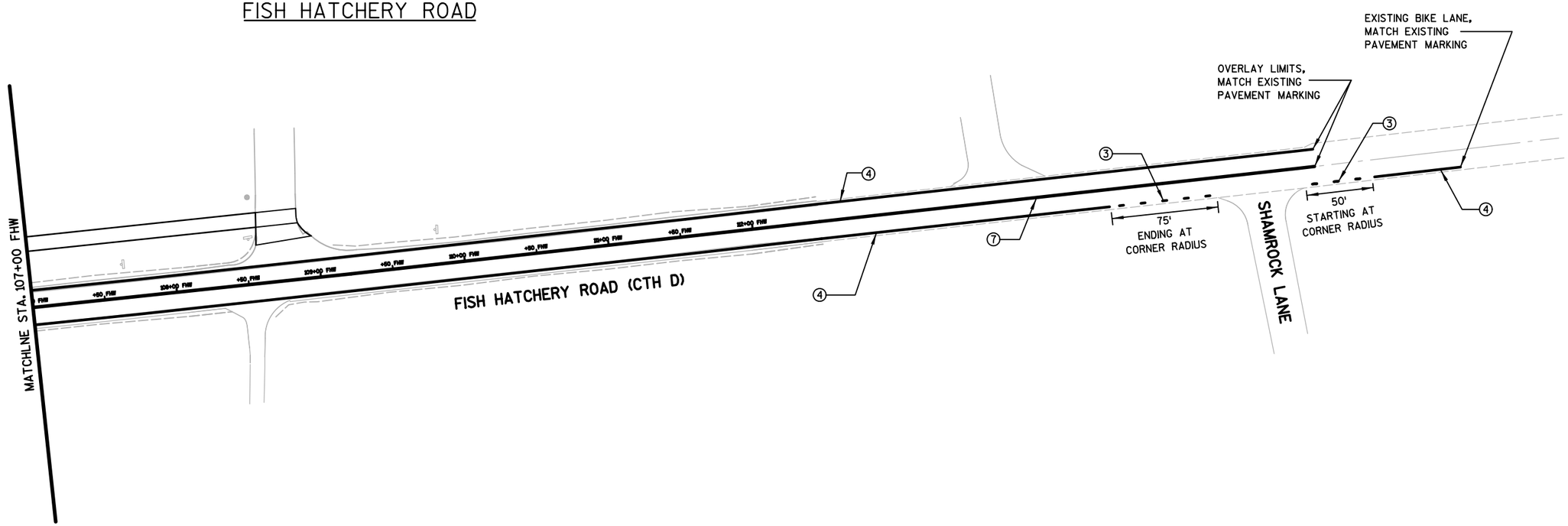


FISH HATCHERY ROAD

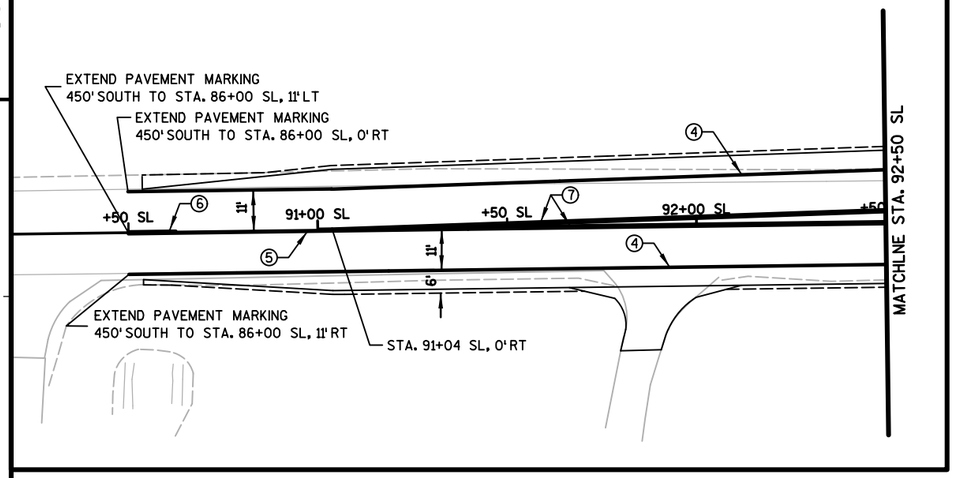
PAVEMENT MARKING LEGEND

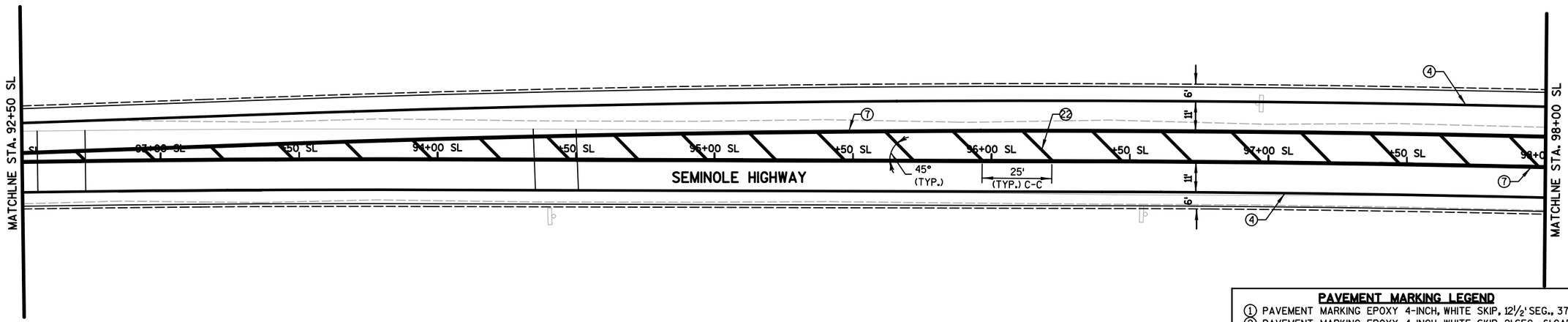
1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
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21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

✱ MATCH EXISTING PAVEMENT MARKING LOCATION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - FISH HATCHERY AT WHALEN	SHEET 422	E







PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
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24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

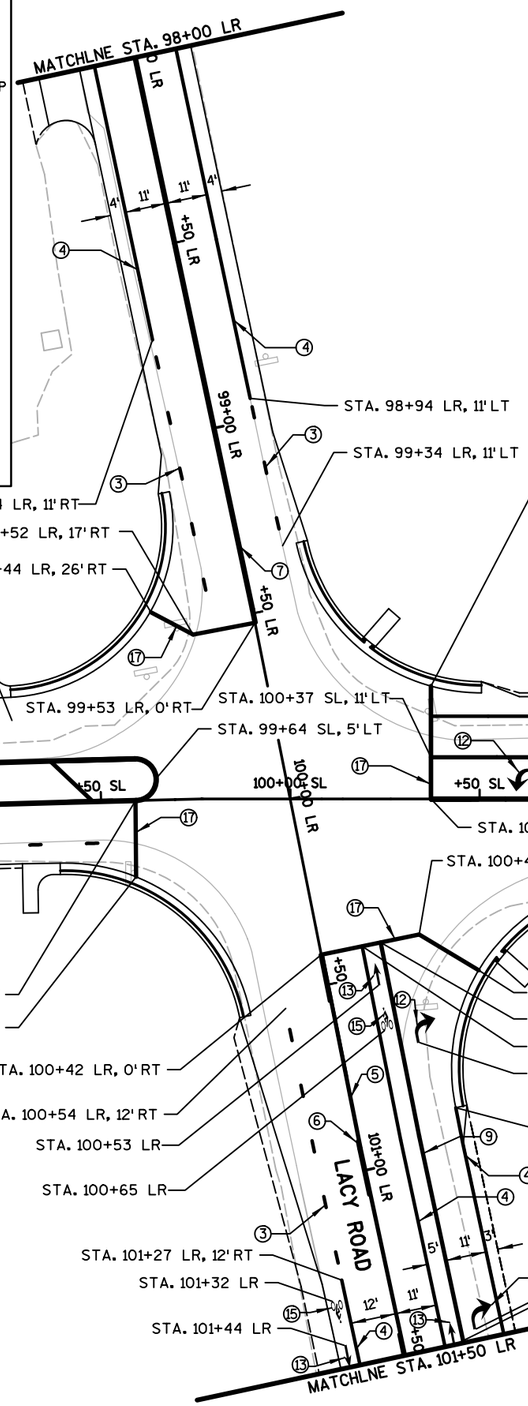
✱ MATCH EXISTING PAVEMENT MARKING LOCATION

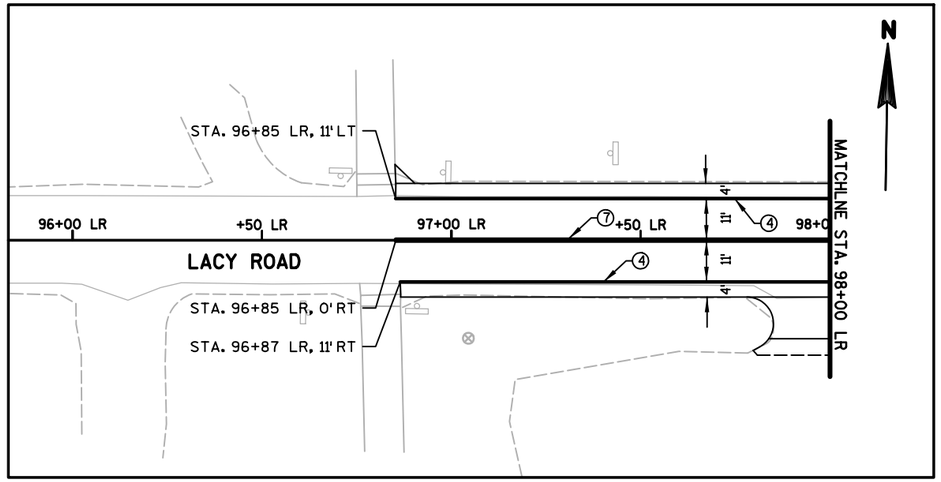
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - SEMINOLE HWY AT LACY	SHEET 423	E

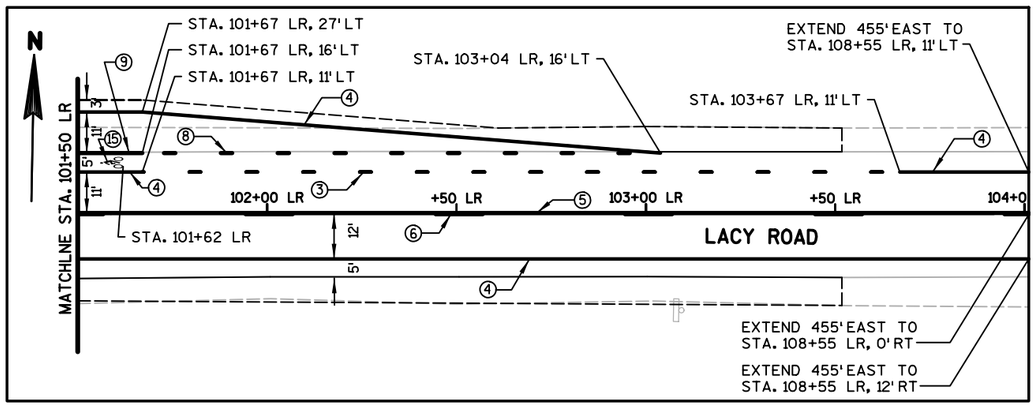
PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½'SEG., 37½'GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2'SEG., 6'GAP
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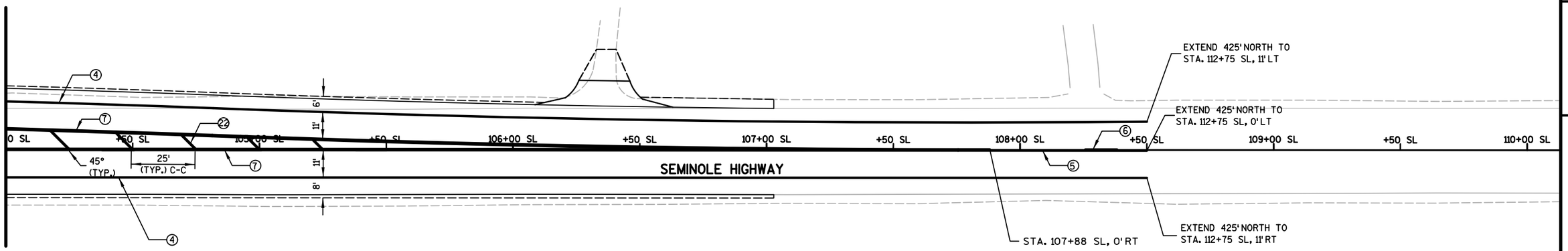
✱ MATCH EXISTING PAVEMENT MARKING LOCATION







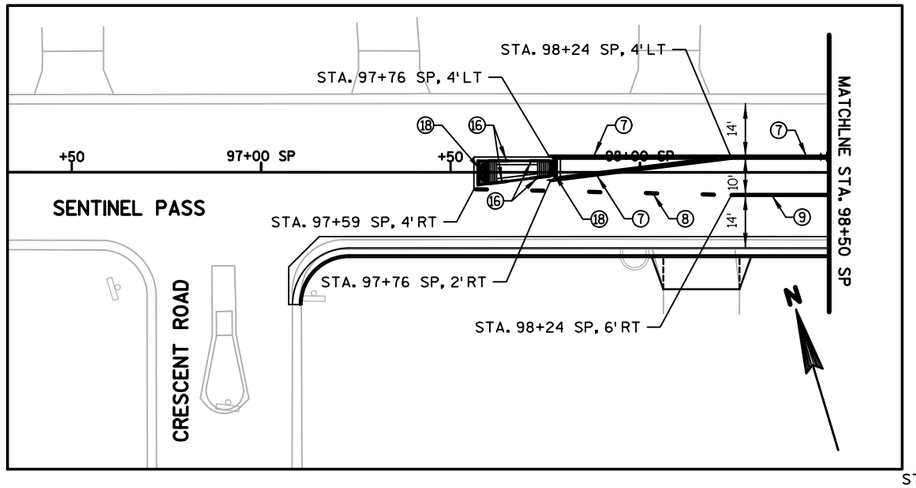
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - SEMINOLE HWY AT LACY	SHEET 424	E

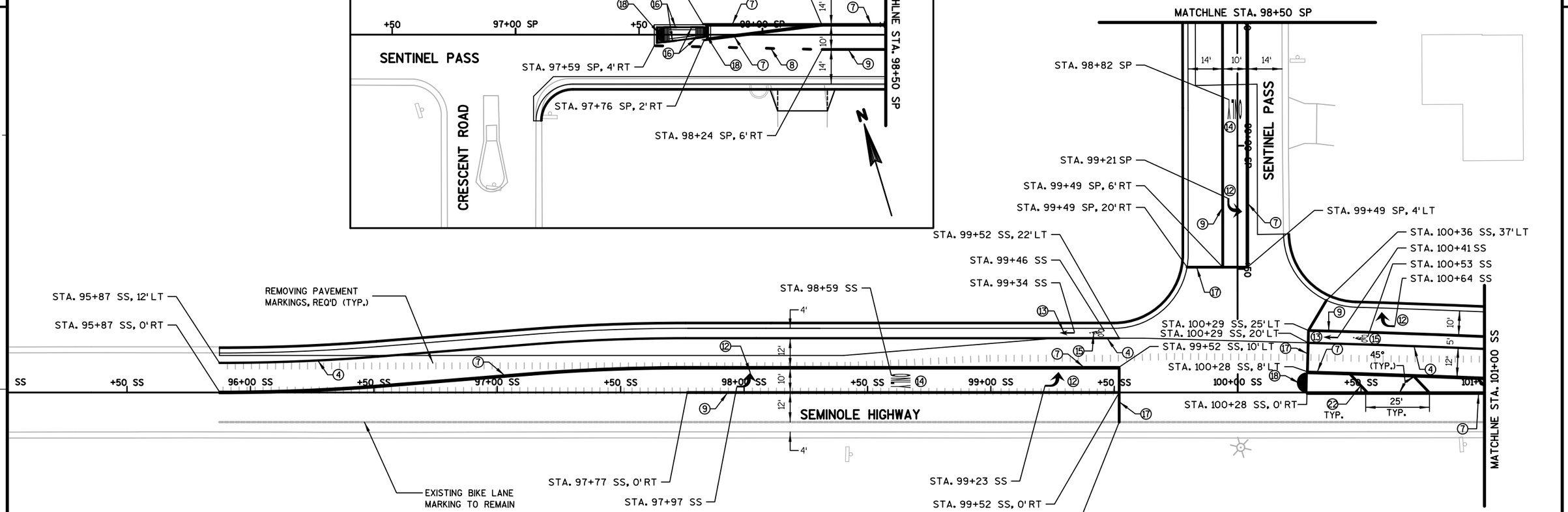


PAVEMENT MARKING LEGEND

① PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
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㉔ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - SEMINOLE HWY AT LACY	SHEET 425	E





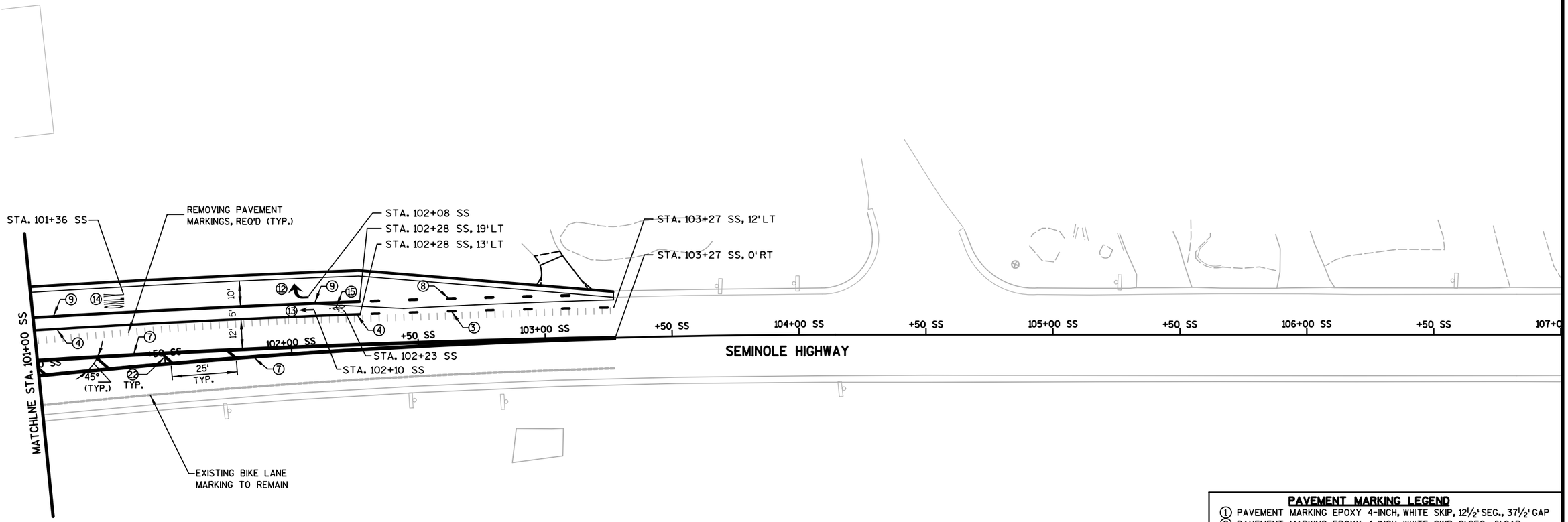
PAVEMENT MARKING LEGEND

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22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
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24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

* MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - SEMINOLE HWY AT SENTINEL PASS	SHEET 426	E

2



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½'SEG., 37½'GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2'SEG., 6'GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3'SEG., 9'GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
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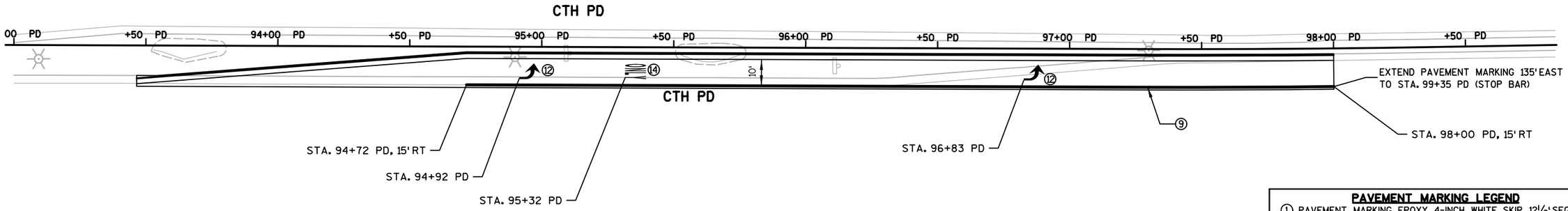
✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - SEMINOLE HWY AT SENTINEL PASS	SHEET 427	E

2

2

N



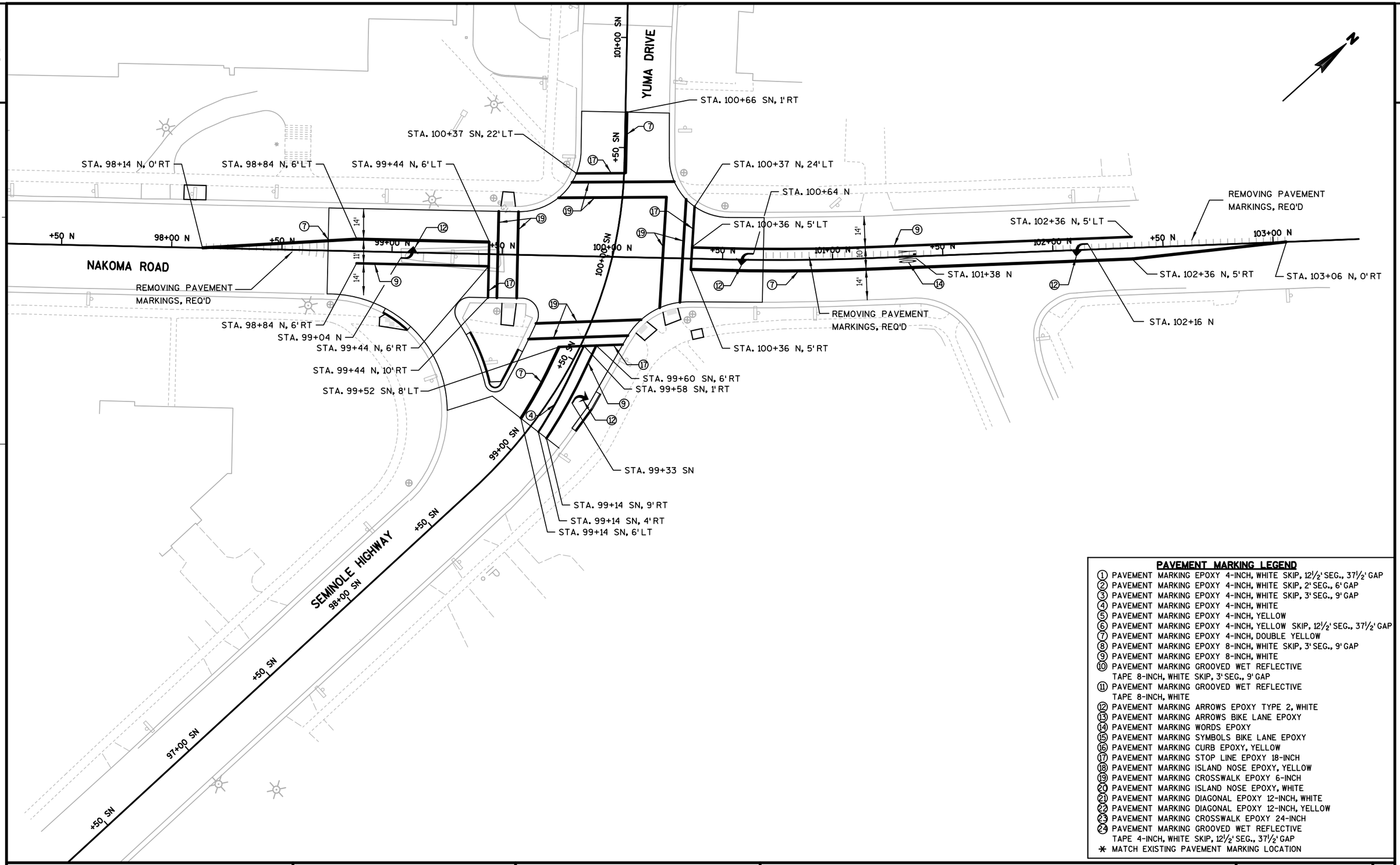
NOTE:
CENTER OF CTH PD - SEMINOLE HIGHWAY INTERSECTION IS LOCATED AT STA. 100+00 PD

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
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✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - CTH PD AT SEMINOLE HWY	SHEET 428	E



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
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24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

✱ MATCH EXISTING PAVEMENT MARKING LOCATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - NAKOMA AT SEMINOLE/YUMA	SHEET 429	E

2

PAVEMENT MARKING LEGEND

①	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
③	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
④	PAVEMENT MARKING EPOXY 4-INCH, WHITE
⑤	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
⑥	PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
⑦	PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
⑧	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑨	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑩	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑪	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
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⑬	PAVEMENT MARKING ARROWS BIKE LANE EPOXY
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㉔	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
*	MATCH EXISTING PAVEMENT MARKING LOCATION

N

95+00 W
+50 W
96+00 W
+50 W
97+00 W
+50 W
98+00 W
+50 W
99+00 W
+50 W
100+00 W
+50 W
101+

STA. 95+44 W, MATCH EXISTING 4-INCH PAVEMENT MARKING

④ REMOVING PAVEMENT MARKINGS REQ'D

STA. 96+67 W

STA. 96+67 W, MATCH EXISTING FLAG OF CURB

11'

⑧*

⑲

⑨

STA. 97+86 W, 40' RT

STA. 98+57 W, 39' RT

STA. 98+36 W

STA. 99+13 W, 11' RT

⑨

12'

MATCHLINE STA. 101+00 W

*⑨

WHITNEY WAY

GILBERT ROAD

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - WHITNEY AT GILBERT	SHEET 430 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\024533_pm_w.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
3. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
4. PAVEMENT MARKING EPOXY 4-INCH, WHITE
5. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
6. PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
7. PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
8. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
9. PAVEMENT MARKING EPOXY 8-INCH, WHITE
10. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
11. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
12. PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
13. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
14. PAVEMENT MARKING WORDS EPOXY
15. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
16. PAVEMENT MARKING CURB EPOXY, YELLOW
17. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
18. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
19. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
20. PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
21. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
22. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
23. PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP

* MATCH EXISTING PAVEMENT MARKING LOCATION

N

EB USH 12/14 (BELTLINE HIGHWAY

WB USH 12/14 (BELTLINE HIGHWAY

WALLS

SIGN

SIGN

104+00 W

+50 W

103+00 W

+50 W

STA. 101+71 W, 11' RT

+50 W

102+00 W

0 W

+50 W

⑨

12'

MATCHLINE STA. 101+00 W

WHITNEY WAY

* ⑨

* ⑨

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - WHITNEY AT GILBERT	SHEET 431	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\024534_pm_w.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

CTH PD (MCKEE ROAD)

170' NORTH OF STOP BAR

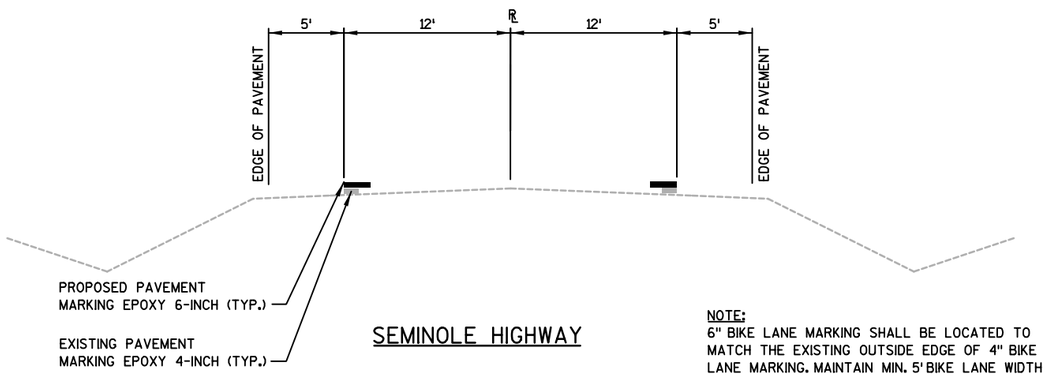
SEMINOLE HIGHWAY

PAVEMENT MARKING EPOXY 6-INCH, WHITE
3055'

PAVEMENT MARKING EPOXY 6-INCH, WHITE
3055'

CAPITOL CITY TRAIL

TRAIL CROSSWALK



SEMINOLE HIGHWAY

NOTE:
6" BIKE LANE MARKING SHALL BE LOCATED TO MATCH THE EXISTING OUTSIDE EDGE OF 4" BIKE LANE MARKING. MAINTAIN MIN. 5' BIKE LANE WIDTH (RURAL) AND 4' BIKE LANE WIDTH (URBAN).

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKINGS - SEMINOLE HIGHWAY	SHEET 432	E

PAVEMENT MARKING LEGEND

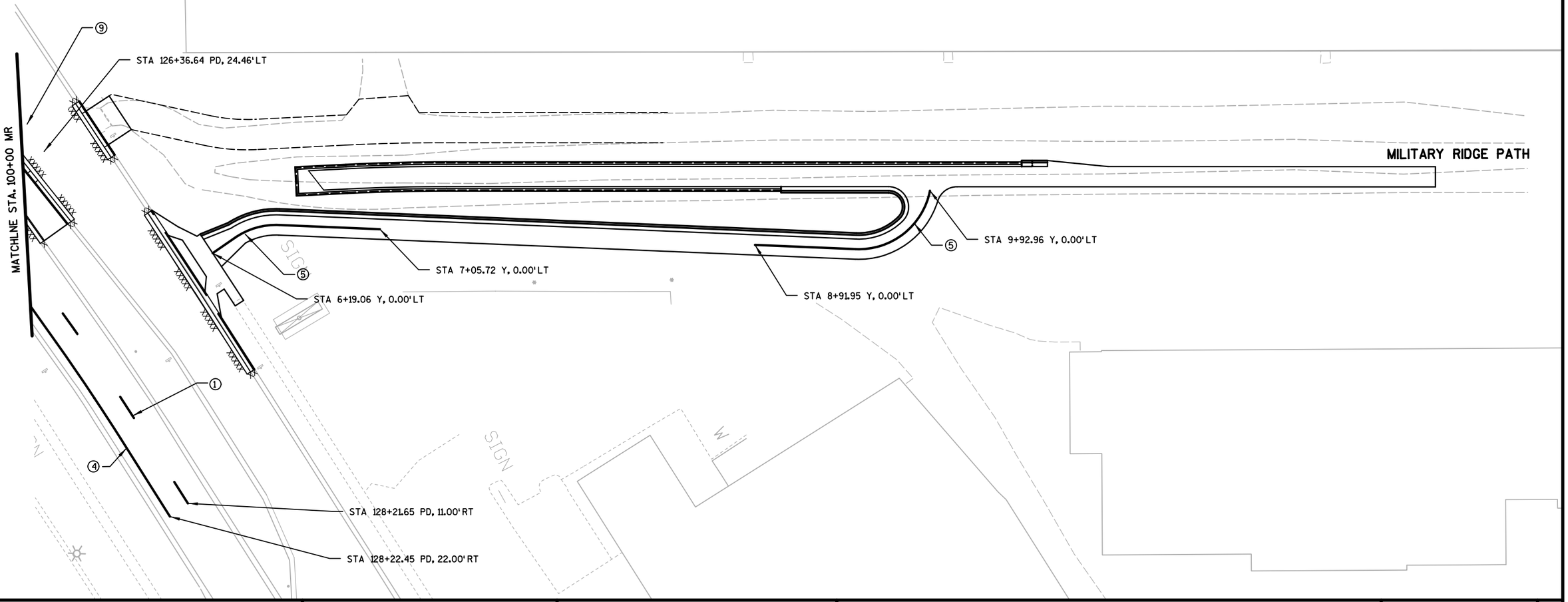
① PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
② PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
③ PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
④ PAVEMENT MARKING EPOXY 4-INCH, WHITE
⑤ PAVEMENT MARKING EPOXY 4-INCH, YELLOW
⑥ PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
⑦ PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
⑧ PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑨ PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑩ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑪ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
⑫ PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
⑬ PAVEMENT MARKING ARROWS BIKE LANE EPOXY
⑭ PAVEMENT MARKING WORDS EPOXY
⑮ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
⑯ PAVEMENT MARKING CURB EPOXY, YELLOW
⑰ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑱ PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑲ PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑳ PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
㉑ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
㉒ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
㉓ PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
㉔ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION

STA 122+89.19 PD, 30.00' RT
STA 122+89.19 PD, 19.00' RT
STA 124+38.45 PD, 13.00' LT
STA 125+14.65 PD, 13.00' LT
STA 125+57.02 PD, 24.28' LT
STA 13+84.14 Y, 0.00' LT
STA 12+85.38 Y, 0.00' LT
STA 11+04.83 Y, 0.00' LT
STA 10+07.19 Y, 0.00' LT
MILITARY RIDGE PATH
MATCHLNE STA. 100+00 FHW
SCALE
SIGN
SIGN
SIGN
A/C

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - MILITARY RIDGE PATH	SHEET 433 E

PAVEMENT MARKING LEGEND

① PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
② PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 2' SEG., 6' GAP
③ PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
④ PAVEMENT MARKING EPOXY 4-INCH, WHITE
⑤ PAVEMENT MARKING EPOXY 4-INCH, YELLOW
⑥ PAVEMENT MARKING EPOXY 4-INCH, YELLOW SKIP, 12½' SEG., 37½' GAP
⑦ PAVEMENT MARKING EPOXY 4-INCH, DOUBLE YELLOW
⑧ PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑨ PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑩ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
⑪ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH, WHITE
⑫ PAVEMENT MARKING ARROWS EPOXY TYPE 2, WHITE
⑬ PAVEMENT MARKING ARROWS BIKE LANE EPOXY
⑭ PAVEMENT MARKING WORDS EPOXY
⑮ PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
⑯ PAVEMENT MARKING CURB EPOXY, YELLOW
⑰ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑱ PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑲ PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑳ PAVEMENT MARKING ISLAND NOSE EPOXY, WHITE
㉑ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, WHITE
㉒ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH, YELLOW
㉓ PAVEMENT MARKING CROSSWALK EPOXY 24-INCH
㉔ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
✱ MATCH EXISTING PAVEMENT MARKING LOCATION



PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	PAVEMENT MARKING - MILITARY RIDGE PATH	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\024536_pm_mr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES FOR TRAFFIC CONTROL

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

2. DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON CONTRACTORS METHODS OR SEQUENCES OF OPERATION.

3. THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

4. EXISTING TRAFFIC SIGNS WHICH CONFILCT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

5. EXISTING TRAFFIC SIGNS MAY REQUIRE RELOCATION DURING STAGES OF CONSTRUCTION AND SHALL BE LOCATED AS REQUIRED BY THE ENGINEER IN THE FIELD.

6. CONSIDER GEOMETRICS WHEN LOCATING SIGNS, ARROW BOARDS AND SIGN MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS, SIGN MESSAGE BOARDS, AND LANE CLOSURE DRUMS FOR A MINIMUM OF 1500 FEET IN FRONT OF THE DRUMS.

7. FOR ANY LANE CLOSURES THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

8. THE TURNING OF TRAFFIC CONTROL DEVICES WHEN NOT IN USE TO OBSCURE THE MESSAGE WILL NOT BE ALLOWED.

9. PAVEMENT MARKING NOT APPROPRIATE TO THE TRAVEL PATH SHALL BE REMOVED.

10. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER. HOWEVER, CONTRACTOR SHALL NOT USE FLAG PERSONS TO DIRECT, STOP OR CONTROL TRAFFIC ON USH 12/14 (BELTLINE) OR ON USH 18/151 (VERONA ROAD) AT ANY TIME.

11. ROAD MACHINERY, TRUCK ENTRANCE, FLAGMEN AHEAD, ETC., SIGNS SHALL BE USED AS NEEDED AND SHALL BE REMOVED OR COVERED WHEN THE ACTIVITY OR CONDITION DOES NOT EXIST. NO WARNING LIGHT SHALL BE USED WITH A COVERED SIGN.

12. LOCAL ACCESS SHALL BE MAINTAINED AT ALL TIMES.

13. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

14. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

15. DETAILS OF TRAFFIC CONTROL NOT SHOWN SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECAIL PROVISIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

16. FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C WARNING LIGHT.

17. ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.

18. PORTABLE MESSAGE BOARDS TO BE MAINTAINED FOR EB AND WB BELTLINE AND EB AND WB VERONA ROAD. PORTABLE MESSAGE BOARDS SHALL BE CHANGED AS APPROPRIATE OR AS DIRECTED BY THE ENGINEER.

19. ANCHOR CONCRETE BARRIER TEMPORARY PRECAST PER SDD "CONCRETE BARRIER TEMPORARY PRECAST"

20. CONCRETE BARRIER TEMPORARY PRECAST LOCATIONS IN TRAFFIC CONTROL PLANS ARE TYPICAL AND MAY VARY. PROVIDE 2' CLEAR TO THE TOE OF THE BARRIER.

21. TEMPORARY SHORING LOCATIONS AND LENGTHS SHOWN ON THE PLANS ARE FOR INFORMATIONAL PURPOSE ONLY. CONTRACTOR TO VERIFY LOCATION AND SIZE OF SHORING.

22. PROTECTION OF THE EXCAVATIONS IS THE CONTRACTORS RESPONSIBILITY AND IS INCIDENTAL TO THE OPERATION FOR WHICH IT IS REQUIRED.

23. CONTRACTORS EQUIPMENT AND MATERIAL STOCKPILES MAY NOT BE STORED WITH IN THE CLEAR ZONE OF USH 12, USH 12 RAMPS, USH 151, OR WITHIN 10' OF BACK OF SIDEWALK WHILE THE CONTRACTOR IS NOT WORKING, UNLESS THEY ARE PROTECTED BY CONCRETE BARRIER TEMPORARY PRECAST.

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL GENERAL NOTES	SHEET 435	E

BELTLINE THIRD LANE

STAGE 1 PHASE 1:

CONSTRUCTION:
CONSTRUCT WB USH 12/14 THIRD LANE AND EB USH 12/14 SHOULDER DURING NIGHTTIME CLOSURE.

MILL AND REPAVE WB USH 12/14 MEDIAN LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTRUCT WHITNEY WAY BIKE PATH.

INSTALL MEDIAN GUARDRAIL DURING NIGHTTIME CLOSURE.

INSTALL DMS BASE IN MEDIAN (SEE DMS-13-31).

TRAFFIC:
USH 12/14 ON EXISTING PAVEMENT (11 FT LANES).

NIGHTTIME MEDIAN LANE CLOSURES AND DAYTIME MEDIAN SHOULDER CLOSURES.

PROVIDE BIKE ACCESS TO ODANA ROAD FROM THE EXISTING WHITNEY WAY BIKE PATH AT ALL TIMES.

STAGE 1 PHASE 2:

CONSTRUCTION:
MILL AND REPAVE WB USH 12/14 OUTSIDE LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTUCT WB USH 12/14 AUXILLARY LANE.

CONSTRUCT CURB AND GUTTER ALONG WHITNEY WAY WB USH 12/14 ON-RAMP.

CONSTRUCT SIGN STRUCTURES S-13-384, S-13-394 AND S-13-395.

TRAFFIC:
WB USH 12/14 SHIFTED TO THE ORIGINAL MEDIAN LANE AND NEWLY CONSTRUCTED MEDIAN LANE (11 FT LANES).

ROLLING ROAD BLOCKS REQUIRED TO SET SIGN STRUCTURES S-13-384, S-13-385 AND S-13-395.

NOISE WALL N-13-4

STAGE 1 PHASE 1:

CONSTRUCTION:
CONSTRUCT NOISE WALL N-13-4 DURING OFF-PEAK CLOSURE.

TRAFFIC:
WB USH 12/18 WHITNEY WAY OFF-RAMP ON EXISTING PAVEMENT.

BELTLINE STORM SEWER

STAGE 1 PHASE 1:

CONSTRUCTION:
CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE.

CONSTRUCT WET DETENSION BASIN B.

TRAFFIC:
USH 12/14 ON EXISTING PAVEMENT.

WB USH 12/14 ON RAMP AT VERONA ROAD CLOSED.

STAGE 1 PHASE 2:

CONSTRUCTION:
CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE.

CONSTRUCT WET DETENSION BASIN B.

TRAFFIC:
USH 12/14 ON EXISTING PAVEMENT.

STAGE 1 PHASE 3:

CONSTRUCTION:
CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE.

CONSTRUCT WET DETENSION BASIN B.

TRAFFIC:
USH 12/14 ON EXISTING PAVEMENT.

STAGE 1 PHASE 4:

CONSTRUCTION:
CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE.

CONSTRUCT WET DETENSION BASIN B.

TRAFFIC:
USH 12/14 ON EXISTING PAVEMENT.

STAGE 1 PHASE 5:

CONSTRUCTION:
UTILIZE STAGE 1 PHASE 1 AND PHASE 4 LANE CLOSURES TO INSTALL CONCRETE BARRIER PRECAST 12.5-FT TO FINAL POSITION AND CRASH CUSHIONS PRIOR TO WINTER SHUTDOWN.

TRAFFIC:
USH 12/14 ON EXISTING PAVEMENT.

NOISE WALL N-13-2

STAGE 1 PHASE 1:

CONSTRUCTION:
REMOVE RUMBLE STRIP ALONG WB USH 12/14/18/151 OUTSIDE SHOULDER DURING NIGHTTIME CLOSURE.

INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG WB USH 12/14/18/151 OUTSIDE SHOULDER DURNING NIGHTTIME CLOSURE.

INSTALL STORM SEWER IN INFIELD OF WB USH 12/14/18/151 OFF RAMP AT SEMINOLE HIGHWAY.

TRAFFIC:
USH 12/14/18/151 MAINLINE ON EXISTING PAVEMENT.

STAGE 1 PHASE 2:

CONSTRUCTION:
CONSTRUCT NOISE WALL N-13-2 AND STORM SEWER BETWEEN WARWICK WAY AND INFIELD OF WB USH 12/14/18/151 OFF RAMP AT SEMINOLE HIGHWAY.

TRAFFIC:
USH 12/14/18/151 ON EXISTING PAVEMENT.

STRUCTURE B-13-664

STAGE 3 PHASE 1:

CONSTRUCTION:
REMOVE STRUCTURE B-13-264 AND CONSTRUCT STRUCTURE B-13-664.

CONSTRUCTION OF POST AND PANEL WALLS R-13-125/236.

UTILIZING TEMPORARY BARRIER WALL INSTALLED IN STAGE 1 PHASE 1 OF NOISE WALL N-13-2 AND STAGE 1 PHASE 2 OF SEMINOLE FRONTAGE ROAD.

TRAFFIC:
USH 12/14/18/151 SHIFTED TO OUTSIDE EXITSTING PAVEMENT.

NIGHTTIME LANE CLOSURES REQUIRED FOR STRUCTURE DEMOLITION, MATERIAL DELIVERIES, PILE DRIVING OPERATIONS, GIRDER SETTING, AND FALSEWORK INSTALLATION/REMOVAL.

STAGE 3 PHASE 2:

CONSTRUCTION:
WINTER SHUTDOWN

TRAFFIC:
USH 12/14/18/151 ON EXISTING PAVEMENT.

SEMINOLE FRONTAGE ROAD

STAGE 1 PHASE 1:

CONSTRUCTION:
REMOVE SHOULDER AND RUMBLE STRIP ALONG EB USH 12/14/18/151 MEDIAN DURING NIGHTTIME CLOSURE

TRAFFIC:
EB USH 12/14/18/151 ON EXISTING PAVEMENT.

SEMINOLE FRONTAGE ROAD CONTINUED

STAGE 1 PHASE 2:

CONSTRUCTION:
REMOVE SHOULDER AND RUMBLE STRIP ALONG EB USH 12/14/18/151 OUTSIDE SHOULDER DURING NIGHTTIME CLOSURE.

INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG EB USH 12/14/18/151 OUTSIDE SHOULDER DURNING NIGHTTIME CLOSURE.

CONSTRUCT CONCRETE WEIR WALL 18-INCH AT STA. 1196+22 RT DURING NIGHTTIME CLOSURE.

TRAFFIC:
EB USH 12/14/18/151 SHIFTED TO MEDIAN SHOULDER.

STAGE 2 PHASE 1:

CONSTRUCTION:
CONSTRUCT EB USH 12/14/18/151 AUXILLARY LANE.

CONSTRUCT STORM SEWER ALONG THE WB USH 12/14/18/151 OUTSIDE SHOULDER. UTILIZING TEMPORARY BARRIER WALL INSTALLED IN STAGE 1 PHASE 1 OF NOISE WALL N-13-2.

CONSTRUCT MULTI-USE PATH ALONG SOUTH SHOULDER OF SEMINOLE FRONTAGE ROAD AND 8' TEMPORARY PEDESTRIAN/BICYCLE ACCESS AND MID-BLOCK CROSSING NEAR STA 83+85 SF.

TRAFFIC:
EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

SEMINOLE FRONTAGE ROAD ON EXISTING PAVEMENT.

OFF-PEAK FLAGGING OPERATIONS REQUIRED TO MAINTAIN EB AND WB SEMINOLE FRONTAGE ROAD AND BICYCLE TRAFFIC AT ALL TIMES.

STAGE 2 PHASE 2:

CONSTRUCTION:
CONSTRUCT EB USH 12/14/18/151 AUXILLARY LANE.

CONSTRUCT STORM SEWER ALONG THE WB USH 12/14/18/151 OUTSIDE SHOULDER. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT NORTH SEGMENT OF WEST BELTLINE FRONTAGE ROAD.

CONSTURCT SIGN STRUCTURE S-13-376.

TRAFFIC:
EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

WB SEMINOLE FRONTAGE ROAD TRAFFIC DETOURED.

MAINTAIN EB SEMINOLE FRONTAGE ROAD ONE-WAY TRAFFIC, OFF-PEAK FLAGGING OPERATIONS REQUIRED TO MAINTAIN WB SEMINOLE FRONTAGE ROAD BICYCLE TRAFFIC AT ALL TIMES.

SEE SEMINOLE DETOUR SIGNING PLAN.

STAGE 2 PHASE 3:

CONSTRUCTION:
CONSTRUCT SOUTH SEGMENT OF SEMINOLE FRONTAGE ROAD.

TRAFFIC:
EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

WB SEMINOLE FRONTAGE ROAD TRAFFIC DETOURED.

MAINTAIN EB SEMINOLE FRONTAGE ROAD ONE-WAY TRAFFIC.

SEE SEMINOLE DETOUR SIGNING PLAN.

WARWICK WAY

STAGE 1 PHASE 1:

CONSTRUCTION:
CONSTRUCT WARWICK WAY AND STORM SEWER.

TRAFFIC:
WARWICK WAY CLOSED TO THROUGH TRAFFIC.

SAND AND TRASH COLLECTOR

STAGE 1 PHASE 1:

CONSTRUCTION:
REMOVE RUMBLE STRIP ALONG WB USH 12/14/18/151 MEDIAN SHOULDER DURING NIGHTTIME CLOSURE.

INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG WB USH 12/14/18/151 6' FROM EXISTING OUTSIDE SHOULDER. (NIGHTTIME LANE CLOSURE REQUIRED.)

TRAFFIC:
USH 12/14/18/151 MAINLINE ON EXISTING PAVEMENT.

STAGE 2 PHASE 1:

CONSTRUCTION:
CONSTRUCT SHOULDER ACCESS TO SAND AND TRASH COLLECTOR ALONG WB USH 12/14/18/151.

CONSTRUCT SAND AND TRASH COLLECTOR.

CONSTRUCT STORM SEWER.

CONSTRUCT MSE WALLS R-13-244/245.

TRAFFIC:
WB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

NIGHTTIME LANE CLOSURES REQUIRED FOR MATERIAL DELIVERIES.

TODD DRIVE STORM SEWER

STAGE 1 PHASE 1:

CONSTRUCTION:
CONSTRUCT STORM SEWER ALONG TODD DRIVE.

CONSTRUCT BARRIER WALL AND PAVEMENT REMOVED DURING STORM SEWER CONSTRUCTION.

CONSTRUCT CONCRETE WEIR WALL 6 $\frac{1}{2}$-INCH AT STA. 9+79 TD, RT.

TRAFFIC:
EB TODD DRIVE EXIT TRAFFIC ON EXISTING PAVEMENT.

FLAGGING OPERATION REQUIRED TO MAINTAIN EB AND WB BELTLINE FRONTAGE ROAD AND BICYCLE TRAFFIC DURING PLACEMENT OF FINISHING ITEMS.

VERONA ROAD

STAGE 1 PHASE 1A:

CONSTRUCTION:
TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC AND OVERLAY EXISTING WB USH 18/151 (MEDIAN LANE)

BASE PATCH ASPHALTIC EXISTING EB USH 18/151

TRAFFIC:
NIGHTTIME LANE CLOSURES ON EB AND WB USH 18/151

STAGE 1 PHASE 1B:

CONSTRUCTION:
TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC AND OVERLAY EXISTING WB USH 18/151 (2 OUTSIDE LANES)

BASE PATCH ASPHALTIC EXISTING EB USH 18/151

MAINTAIN LEFT TURNING MOVEMENT AT ATTICUS WAY DURING OVERLAY OPERATIONS

TRAFFIC:
NIGHTTIME LANE CLOSURES ON EB AND WB USH 18/151

STAGE 1 PHASE 2A:

CONSTRUCTION:
TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC EXISTING EB USH 18/151

CONSTRUCT WB USH 18/151 WIDENING

INSTALL PERMANENT PAVEMENT MARKINGS FOR OVERLAYED WB USH 18/151 AND AT PATCHES FOR EB USH 18/151

MOVE BARRIER WALL TO FINAL LOCATION

INSTALL PERMANENT PAVEMENT MARKINGS FOR WB USH 18/151 EDGELINE

TRAFFIC:
DAYTIME & NIGHTTIME LANE CLOSURES ON EB AND WB USH 18/151

STAGE 1 PHASE 2B:

TRAFFIC:
FINAL USH 18/151 (VERONA ROAD) OVERVIEW

VERONA ROAD CONTINUED

STAGE 2 PHASE 1:

CONSTRUCTION:
CONSTRUCT WET DETENSION BASIN A AND CONNECTION INTO EXISTING STORM SEWER STRUCTURE

CONSTRUCT RETAINING WALL R-13-204

INSTALL STORM SEWER TRUNKLINE.

INSTALL WATER MAIN UNDER FREEPORT CONNECTION

CONSTRUCT U-HAUL PARKING LOT NEAR DETENSION BASIN A

TRAFFIC:
VERONA ROAD WEST FRONTAGE ROAD CLOSURE

FLAGGING OPERATIONS ON ALLIED DRIVE/EAST VERONA ROAD FRONTAGE ROAD

MAINTAIN ACCESS TO SOUTHWEST COMMUTER BIKE PATH DURING WATER MAIN CONSTRUCTION

STAGE 3 PHASE 1:

CONSTRUCTION:
CONSTRUCT TEMPORARY MULTI-USE PATH CONNECTIONS

CONSTRUCT SOUTHWEST COMMUTER BIKE PATH

INSTALL STORM SEWER

TRAFFIC:
BICYCLE/PEDESTRIAN TRAFFIC UTILIZING EXISTING SOUTHWEST COMMUTER BIKE PATH

MAINTAIN TEMPORARY ACCESS TO BIKE PATH IN ACCORDANCE WITH BID ITEM TEMPORARY PEDESTRIAN/BICYCLE ACCESS

STAGE 3 PHASE 2:

CONSTRUCTION:
CONSTRUCT RETAINING WALLS R-13-1000-TW1, R-13-1000-TW2, AND R-13-1000-TW3

CONSTRUCT FREEPORT CONNECTION

TRAFFIC:
FLAGGING OPERATIONS ON ALLIED DRIVE AND WEST VERONA ROAD FRONTAGE ROAD

SHOULDER CLOSURES ON ALLIED DRIVE AND WEST VERONA ROAD FRONTAGE ROAD

BICYCLE/PEDESTRIAN TRAFFIC ON SOUTHWEST COMMUTER BIKE PATH TO UTILIZE NEWLY CONSTRUCTED MULTI-USE PATH

STAGE 3 PHASE 3:

CONSTRUCTION:
INSTALL CONCRETE BARRIER PRECAST 12.5-FT

TRAFFIC:
FINAL FREEPORT CONNECTION OVERVIEW

NOTE: FREEPORT CONNECTION OPEN AS TEMPORARY DETOUR DURING USH 18/151 (VERONA RD) STAGE 4 PHASE 1 & 2 CONSTRUCTION

VERONA ROAD CONTINUED

STAGE 4 PHASE 1:

CONSTRUCTION:
INSTALL STORM SEWER ACROSS EB SUMMIT ROAD

ALL STAGE 3 WORK FOR FREEPORT CONNECTION SHALL BE COMPLETED PRIOR TO BEGINNING STORM SEWER CROSSING AT SUMMIT ROAD

TRAFFIC:
NIGHTTIME TRAFFIC DETOUR ON FREEPORT CONNECTION FOR ACCESS TO USH 18/151 (VERONA ROAD)

STAGE 4 PHASE 2:

CONSTRUCTION:
INSTALL STORM SEWER ACROSS WB SUMMIT ROAD

TRAFFIC:
NIGHTTIME TRAFFIC DETOUR USE FREEPORT CONNECTION FOR ACCESS TO USH 18/151 (VERONA ROAD) FROM WEST FRONTAGE ROAD

EB USH 18/151 (VERONA ROAD) MUST TURN RIGHT TO FREEPORT CONNECTION FOR ACCESS TO VERONA ROAD WEST FRONTAGE ROAD

STAGE 4 PHASE 3:

CONSTRUCTION:
INSTALL STORM SEWER TRUNKLINE

INSTALL SANITARY SEWER UNDER N-13-3

NOTE: DO NOT DISTURB EXISTING LIGHT POLES ON EB USH 18/151 (VERONA ROAD) UNLESS OTHERWISE INDICATED

TRAFFIC:
NIGHTTIME TRAFFIC DETOUR TO BRITTA PARKWAY FOR ACCESS TO EAST BELTLINE FRONTAGE ROAD DURING STORM SEWER CROSSING OF ALLIED DRIVE

RESTRICT PARKING ON BRITTA PARKWAY DURING DETOUR

MAINTAIN TEMPORARY ACCESS TO SIDEWALK IN ACCORDANCE WITH BID ITEM TEMPORARY PEDESTRIAN/BICYCLE ACCESS

STAGE 5 PHASE 1:

CONSTRUCTION:
INSTALL STORM SEWER UNDER BRITTA PARKWAY

CONSTRUCT BRITTA PARKWAY AND NIEMANN PLACE DRIVEWAY

INSTALL N-13-3

TRAFFIC:
TRAFFIC DETOUR DURRING BRITTA PARKWAY CONSTRUCTION TO VERONA ROAD EAST FRONTAGE ROAD

MAINTIAN ACCESS TO ADJACENT PROPERTY

TODD DRIVE DMS (DMS-13-32/33)

STAGE 1 PHASE 1:

CONSTRUCTION:
CONSTRUCT DMS-13-32/33

TRAFFIC:
USH 12/14/18/151 MAINLINE ON EXISTING PAVEMENT WITH DAYTIME SHOULDER CLOSURES AND NIGHTTIME MEDIAN LANE CLOSURES

JOHN NOLAN DRIVE DMS (DMS-13-34/35)

STAGE 1 PHASE 1:

CONSTRUCTION:
CONSTRUCT DMS-13-34/35

TRAFFIC:
USH 12/18 MAINLINE ON EXISTING PAVEMENT WITH DAYTIME SHOULDER CLOSURES AND NIGHTTIME MEDIAN LANE CLOSURES

MILITARY RIDGE PATH

STAGE 1 - OFF PEAK

CONSTRUCTION:
INSTALL TEMPORARY SHORING AND CONCRETE BARRIER TEMPORARY PRECAST IN MEDIAN OF CTH PD (MCKEE ROAD)

CONSTRUCT BRIDGE PIER IN MEDIAN

INSTALL STORM SEWER, GRADING, AND MSE PANEL WALL

TRAFFIC:
OFF PEAK LANE CLOSURES ON EB AND WB CTH PD (MCKEE ROAD)

MAINTAIN WB CTH PD BIKE LANEAT ALL TIMES

EB CTH PD BIKE LANE WILL BE CLOSED

MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES

STAGE 1 - PEAK

CONSTRUCTION:
CONSTRUCT BRIDGE PIER IN MEDIAN

INSTALL STORM SEWER, GRADING AND MSE PANEL WALL

TRAFFIC:
LANE CLOSURES NOT ALLOWED ON EB AND WB CTH PD (MCKEE ROAD)

MAINTAIN WB CTH PD BIKE LANE AT ALL TIMES

MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES

MILITARY RIDGE PATH

STAGE 2 - OFF PEAK

CONSTRUCTION:
COMPLETE STORM SEWER INSTALLATION AND REMOVAL AND REPLACEMENT OF CURB AND GUTTER ON EB AND WB CTH PD, GRADING, B-13-666 AND MSE PANEL WALL

INSTALL PERMANENT PAVMENT MARKINGS UPON COMPLETION OF CONSTRUCTION OPERATIONS

TRAFFIC:
OFF PEAK LANE CLOSURES ON EB AND WB CTH PD (MCKEE ROAD)

WB CTH PD BIKE LANE WILL BE RE-ROUTED ONTO NEW MULTI-USE PATH

EB CTH PD BIKE LANE WILL BE CLOSED

MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES

STAGE 2 - PEAK

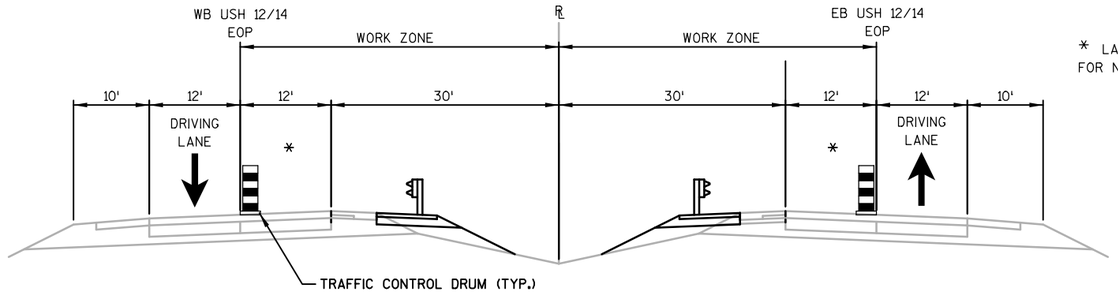
CONSTRUCTION:
COMPLETE STORM SEWER INSTALLATION AND REMOVAL AND REPLACEMENT OF CURB AND GUTTER ON EB AND WB CTH PD, GRADING, B-13-666, AND MSE PANEL WALL

TRAFFIC:
LANE CLOSURES ON EB AND WB CTH PD (MCKEE ROAD) ARE NOT ALLOWED

WB CTH PD BIKE LANE WILL BE RE-ROUTED ONTO NEW MULTI-USE PATH

EB CTH PD BIKE LANE WILL BE CLOSED

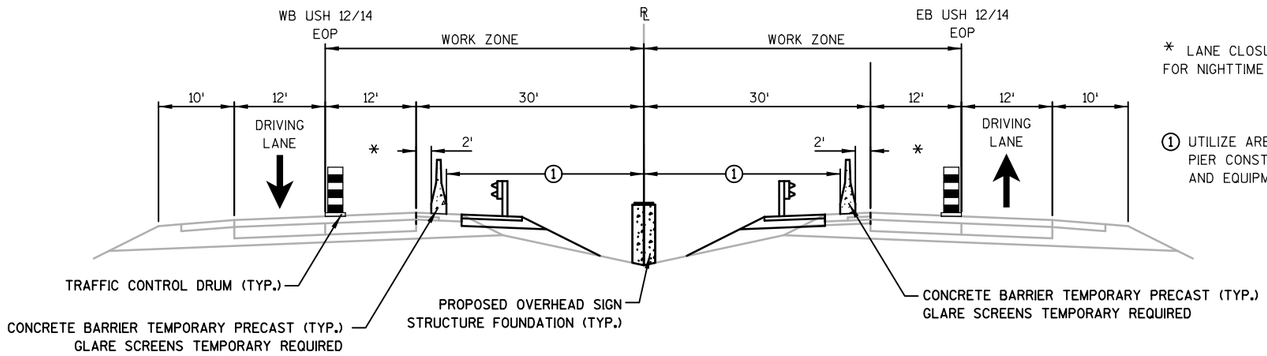
MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES



* LANE CLOSURE DESIGNATED
FOR NIGHTTIME PERIODS ONLY

BELTLINE THIRD LANE - STAGE 1 PHASE 1

STA. 994+77 TO STA. 1025+00



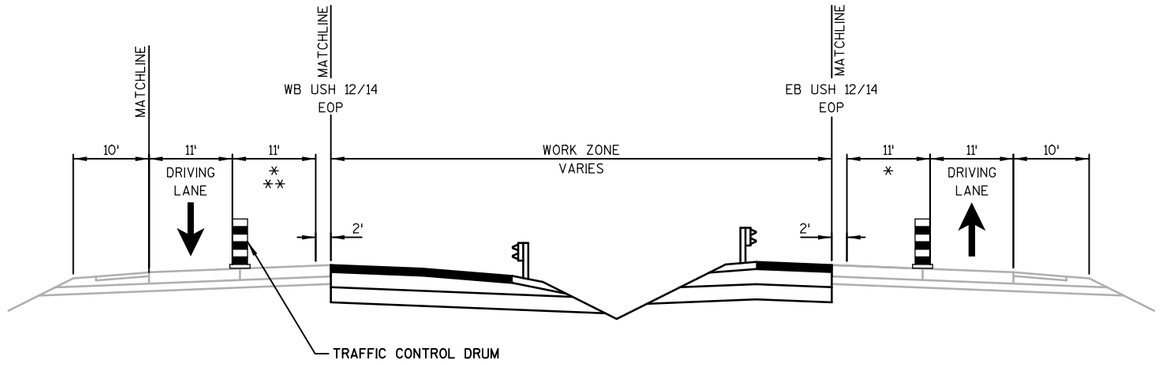
* LANE CLOSURE DESIGNATED
FOR NIGHTTIME PERIODS ONLY

① UTILIZE AREA BETWEEN WALLS FOR SIGN STRUCTURE PIER CONSTRUCTION, GRADING, GUARDRAIL INSTALLATION, AND EQUIPMENT STORAGE.

BELTLINE THIRD LANE - STAGE 1 PHASE 1

STA. 1015+50 TO STA. 1023+60

2

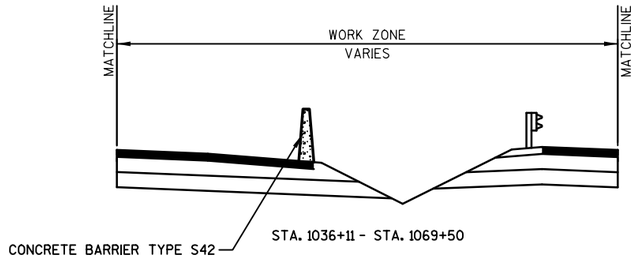


* LANE CLOSURE DESIGNATED FOR NIGHTTIME PERIODS ONLY

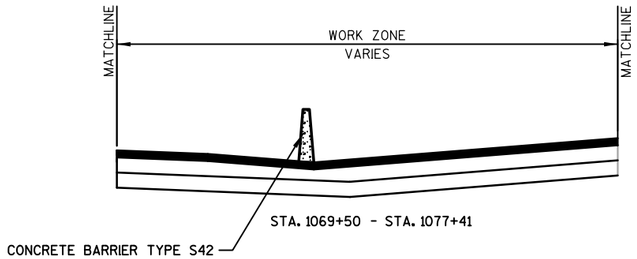
** MILL AND REPAVE TO REALIGN JOINT STA 1025+01 - 1035+28

BELTLINE THIRD LANE - STAGE 1 PHASE 1

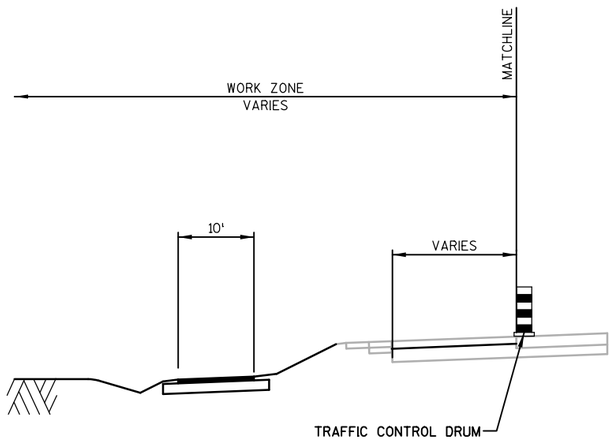
STA. 1025+00 - STA. 1036+11



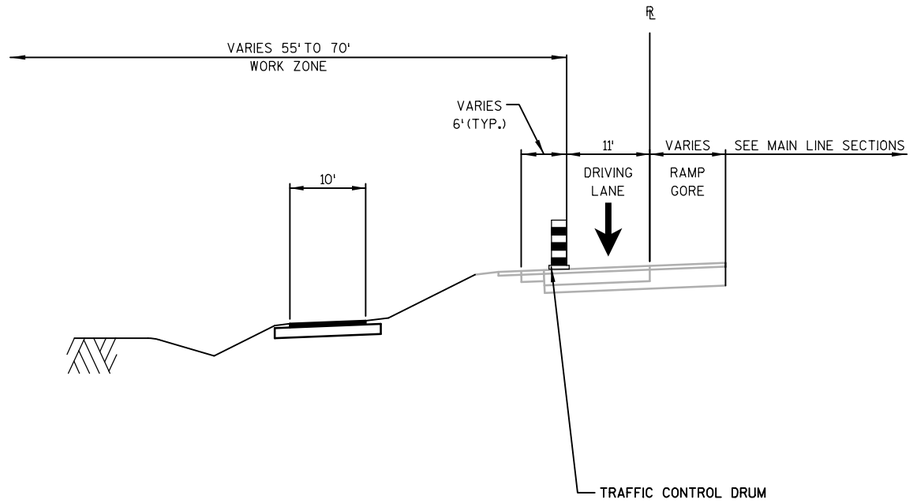
STA. 1036+11 - STA. 1069+50



STA. 1069+50 - STA. 1077+41

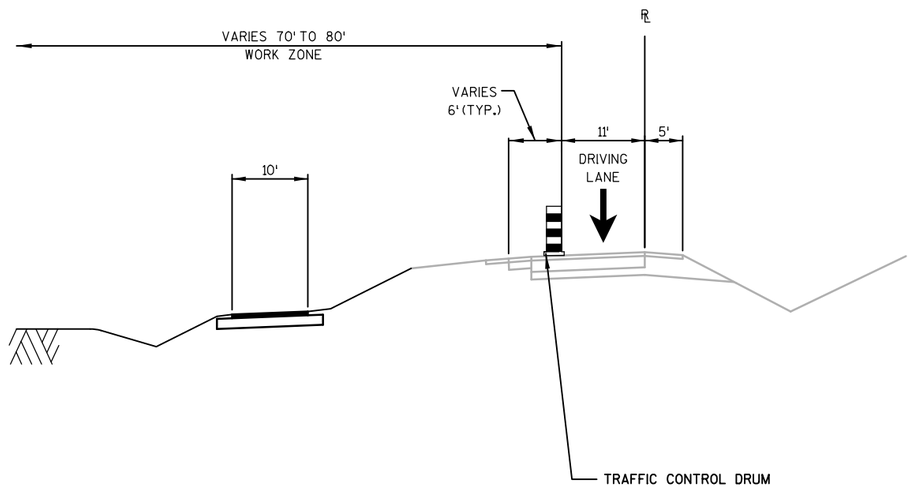


STA. 1064+50 LT - STA. 66+72 'L'



BELTLINE THIRD LANE - STAGE 1 PHASE 1

STA. 66+72 'L' TO STA. 72+00 'L'

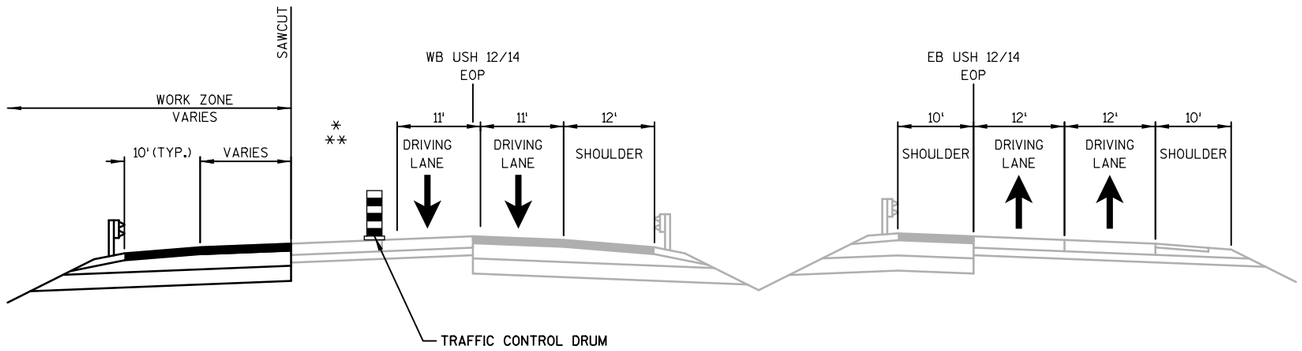


BELTLINE THIRD LANE - STAGE 1 PHASE 1

STA. 72+00 'L' TO STA. 76+24 'L'

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - L RAMP	SHEET 441	E

2

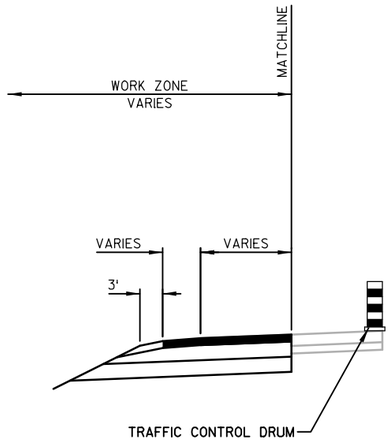


BELTLINE THIRD LANE - STAGE 1 PHASE 2

STA. 1026+10 - STA. 1036+22

* LANE CLOSURE DESIGNATED FOR NIGHTTIME PERIODS ONLY

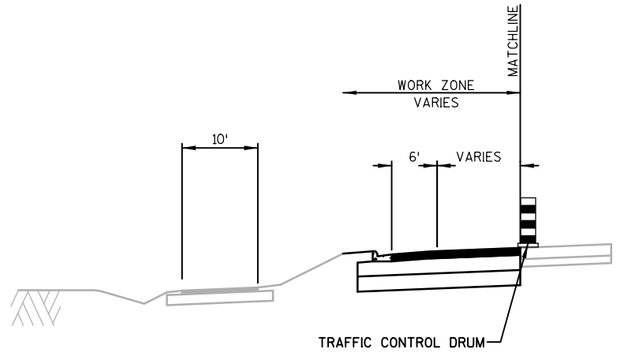
** MILL AND REPAVE TO REALIGN JOINT STA 1026+10 - 1035+28



STA. 1053+85 - STA. 1063+88

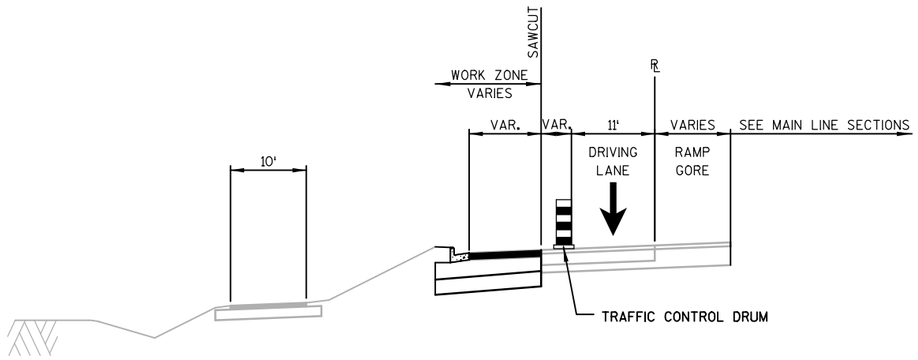
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - BELTLINE HIGHWAY	SHEET 442	E

2



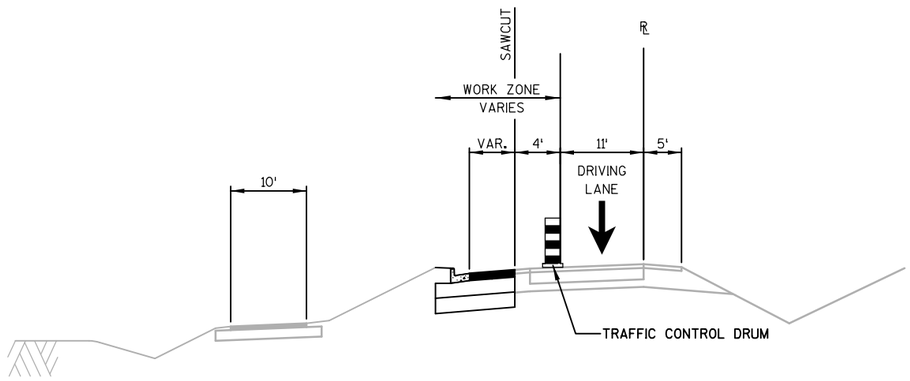
BELTLINE THIRD LANE - STAGE 1 PHASE 2

STA. 1064+50 LT - STA. 66+72 'L'



BELTLINE THIRD LANE - STAGE 1 PHASE 2

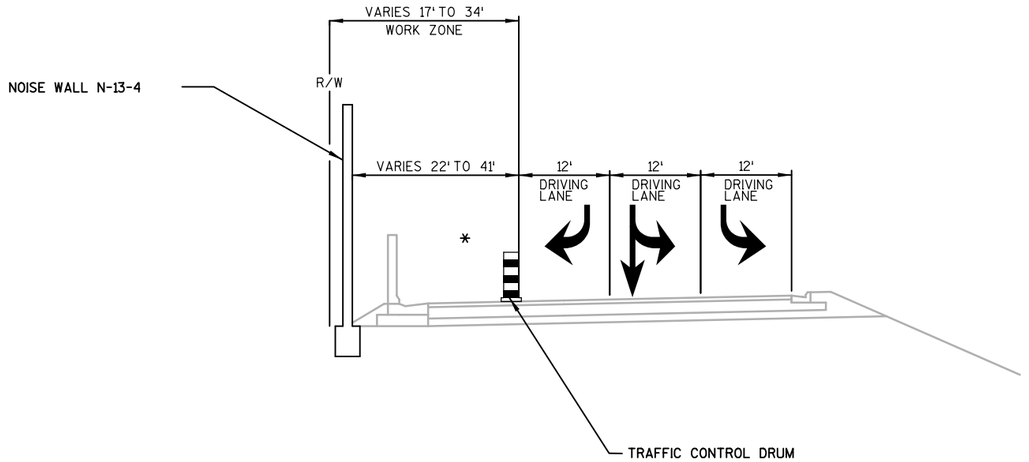
STA. 66+72 'L' TO STA. 72+00 'L'



BELTLINE THIRD LANE - STAGE 1 PHASE 2

STA. 72+00 'L' TO STA. 76+24 'L'

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - L RAMP	SHEET 443	E

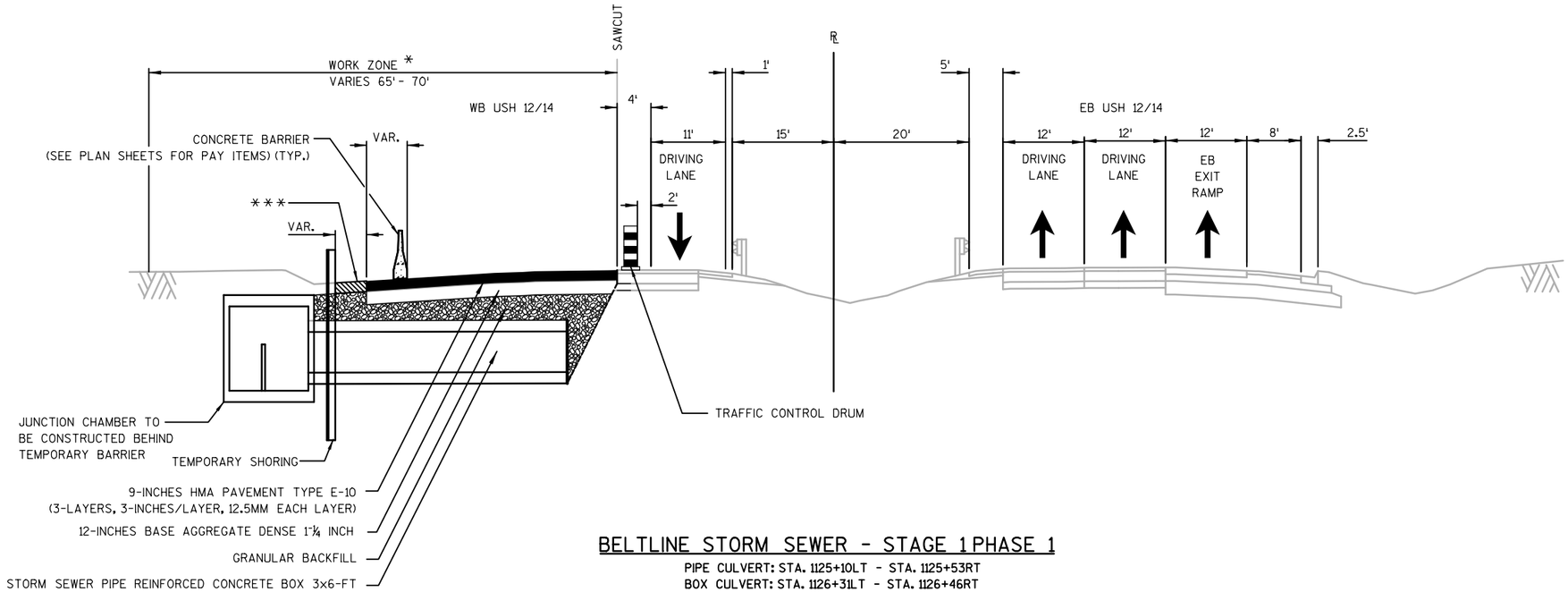


* LANE CLOSURE DESIGNATED FOR OFF-PEAK PERIODS ONLY.

NOISE WALL N-13-4 - STAGE 1 PHASE 1

STA. 77+00 K TO STA. 82+72 K

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - N-13-4	SHEET 444	E



BELTLINE STORM SEWER - STAGE 1 PHASE 1

PIPE CULVERT: STA. 1125+10LT - STA. 1125+53RT
BOX CULVERT: STA. 1126+31LT - STA. 1126+46RT

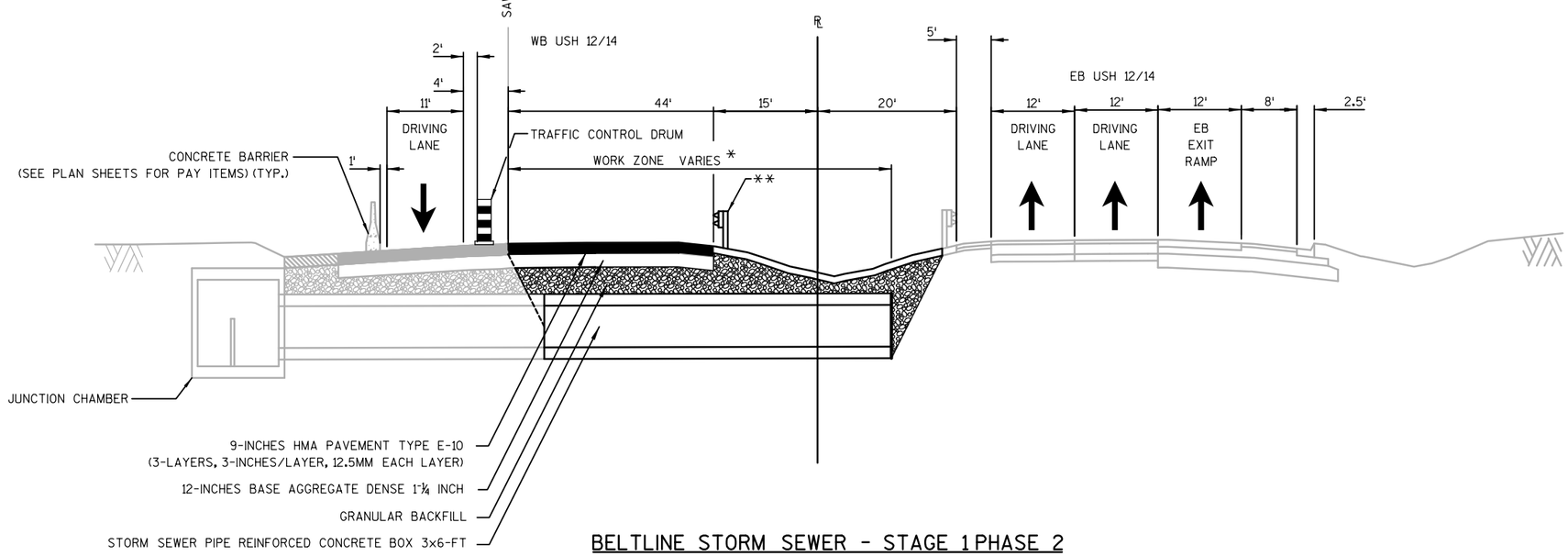
* LANE CLOSURE DESIGNATED FOR NIGHTTIME PERIODS ONLY

** INSTALL STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A AND STEEL PLATE BEAM GUARD CLASS A (SEE CONSTRUCTION DETAIL)

*** 3-INCHES HMA PAVEMENT TYPE E-10 WIDENING STA. 1121+00, 72'LT - STA. 1125+84, 72'LT

*** 3-INCHES HMA PAVEMENT TYPE E-10 WIDENING STA. 1126+16, 67'LT - STA. 1126+67, 71'LT

*** CONSTRUCT PADS FOR CRASH CUSHION TO DIMENSIONS AND THICKNESS SPECIFIED BY MANUFACTURER



BELTLINE STORM SEWER - STAGE 1 PHASE 2

PIPE CULVERT: STA. 1125+10LT - STA. 1125+53RT
BOX CULVERT: STA. 1126+31LT - STA. 1126+46RT

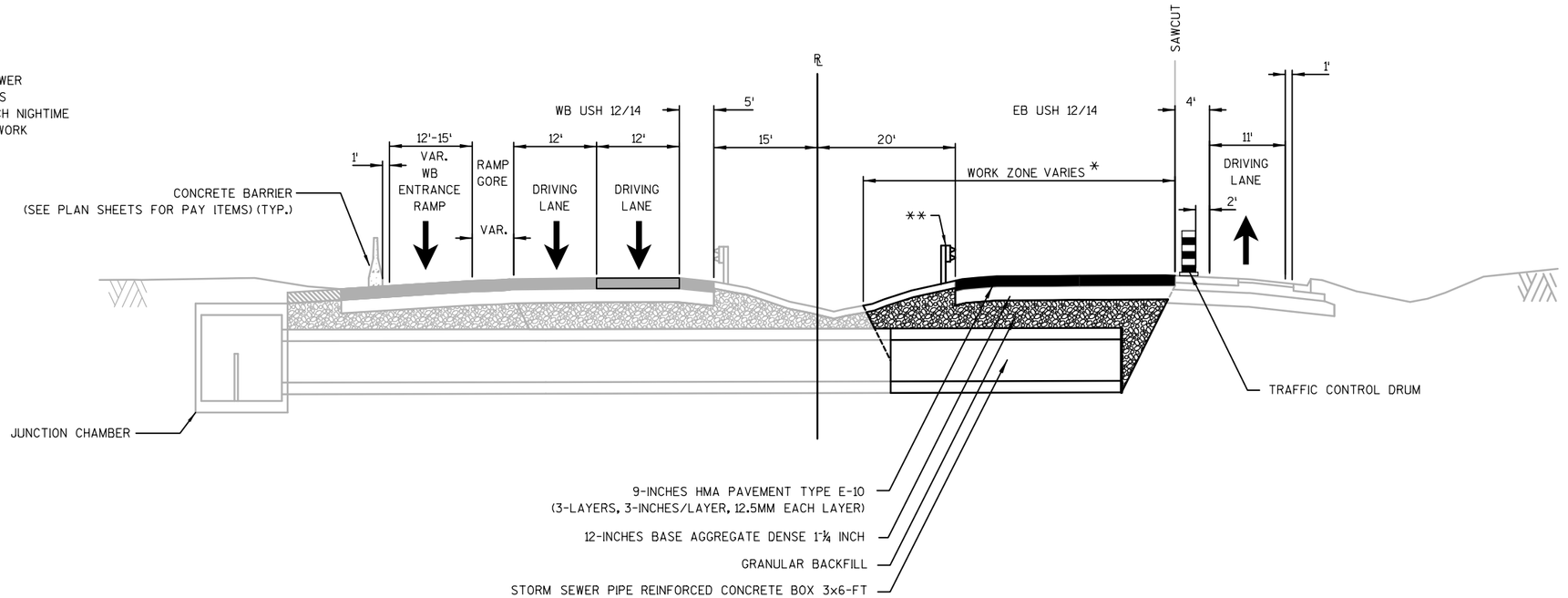
NOTE:

CONSTRUCT BOTH STORM SEWER AND BOX CULVERT CROSSINGS SIMULTANEOUSLY DURING EACH NIGHTIME CLOSURE TO EXPEDITE THE WORK

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TYPICAL TRAFFIC CONTROL SECTIONS - BELTLINE STORM SEWER	SHEET 445	E

NOTE:

CONSTRUCT BOTH STORM SEWER AND BOX CULVERT CROSSINGS SIMULTANEOUSLY DURING EACH NIGHTIME CLOSURE TO EXPEDITE THE WORK

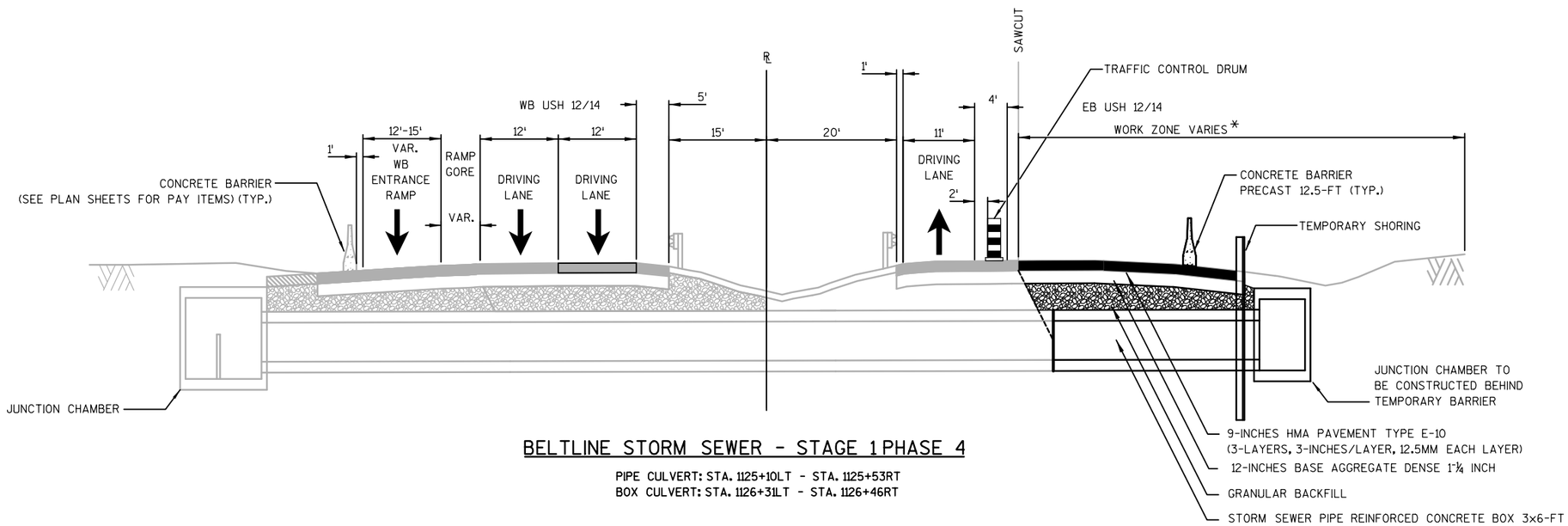


* LANE CLOSURE DESIGNATED FOR NIGHTTIME PERIODS ONLY

** INSTALL STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A AND STEEL PLATE BEAM GUARD CLASS A (SEE CONSTRUCTION DETAIL)

BELTLINE STORM SEWER - STAGE 1 PHASE 3

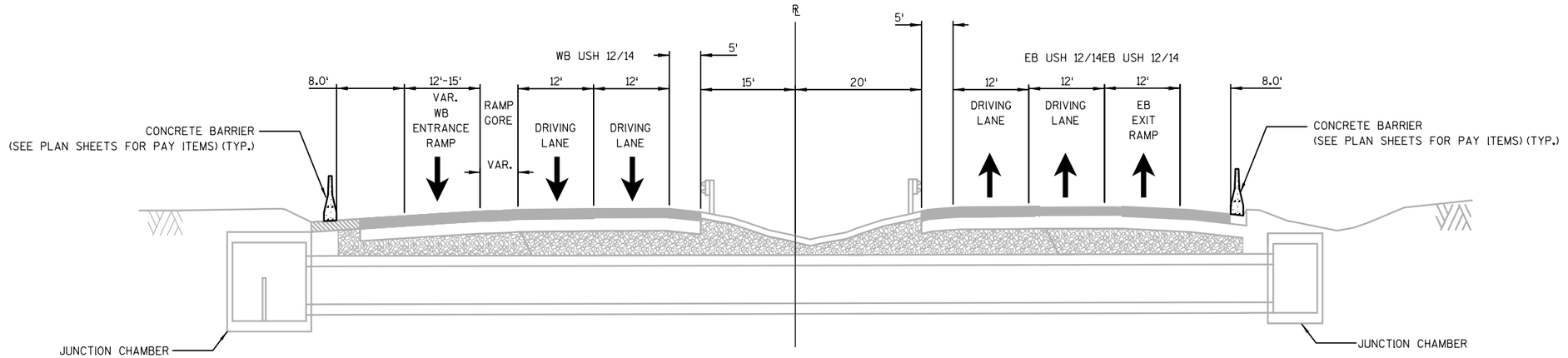
PIPE CULVERT: STA. 1125+10LT - STA. 1125+53RT
BOX CULVERT: STA. 1126+31LT - STA. 1126+46RT



BELTLINE STORM SEWER - STAGE 1 PHASE 4

PIPE CULVERT: STA. 1125+10LT - STA. 1125+53RT
BOX CULVERT: STA. 1126+31LT - STA. 1126+46RT

2



BELTLINE STORM SEWER - STAGE 1 PHASE 5

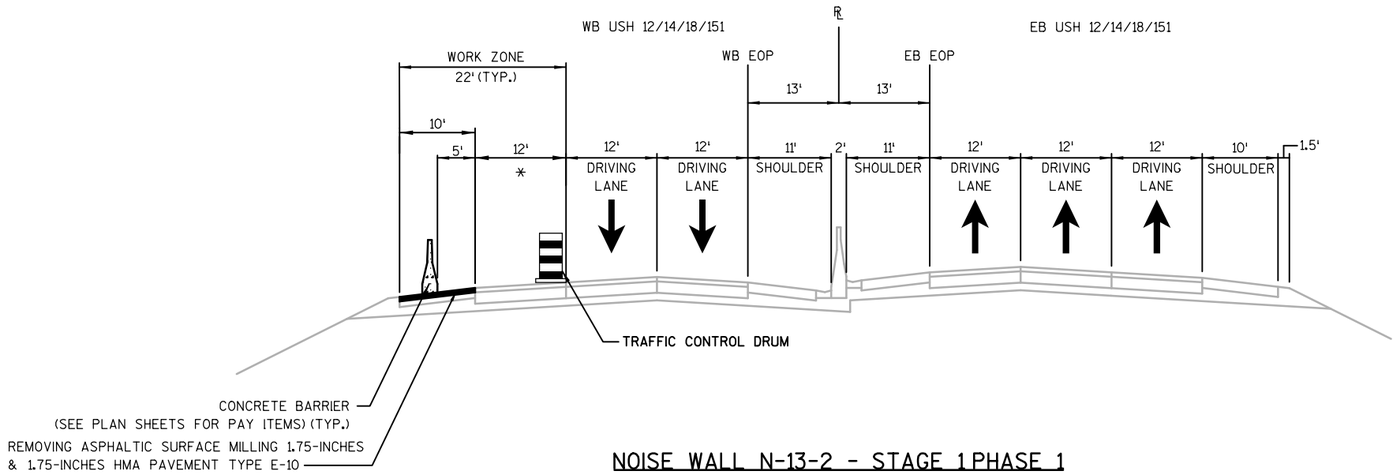
PIPE CULVERT: STA. 1125+10LT - STA. 1125+53RT
BOX CULVERT: STA. 1126+31LT - STA. 1126+46RT

NOTE:

CONSTRUCT BOTH STORM SEWER
AND BOX CULVERT CROSSINGS
SIMULTANEOUSLY DURING EACH NIGHTIME
CLOSURE TO EXPEDITE THE WORK

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - BELTLINE STORM SEWER	SHEET 447	E

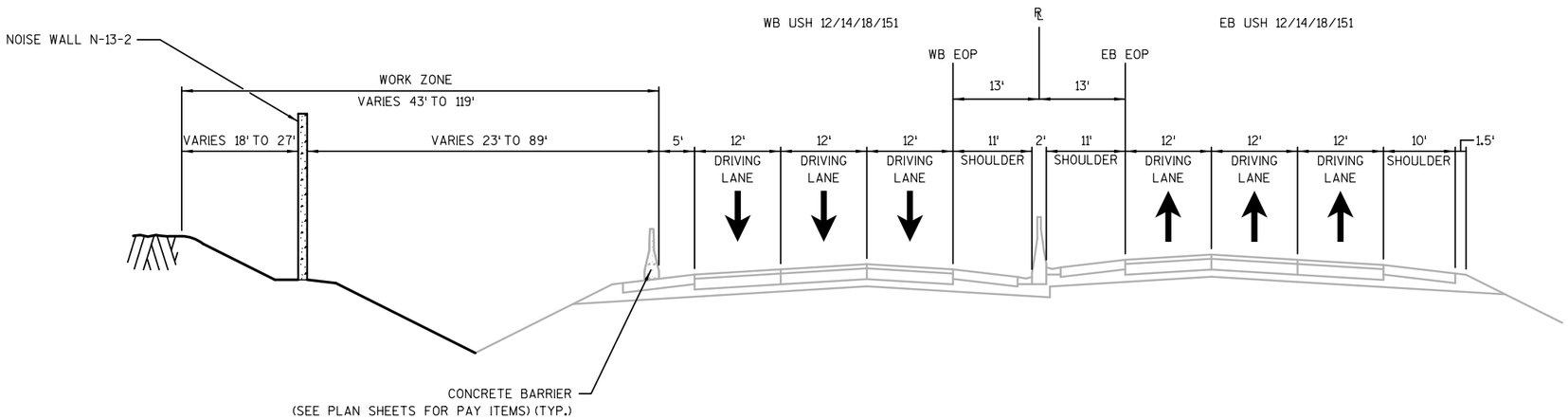
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* LANE CLOSURE DESIGNATED FOR NIGHTTIME PERIODS ONLY

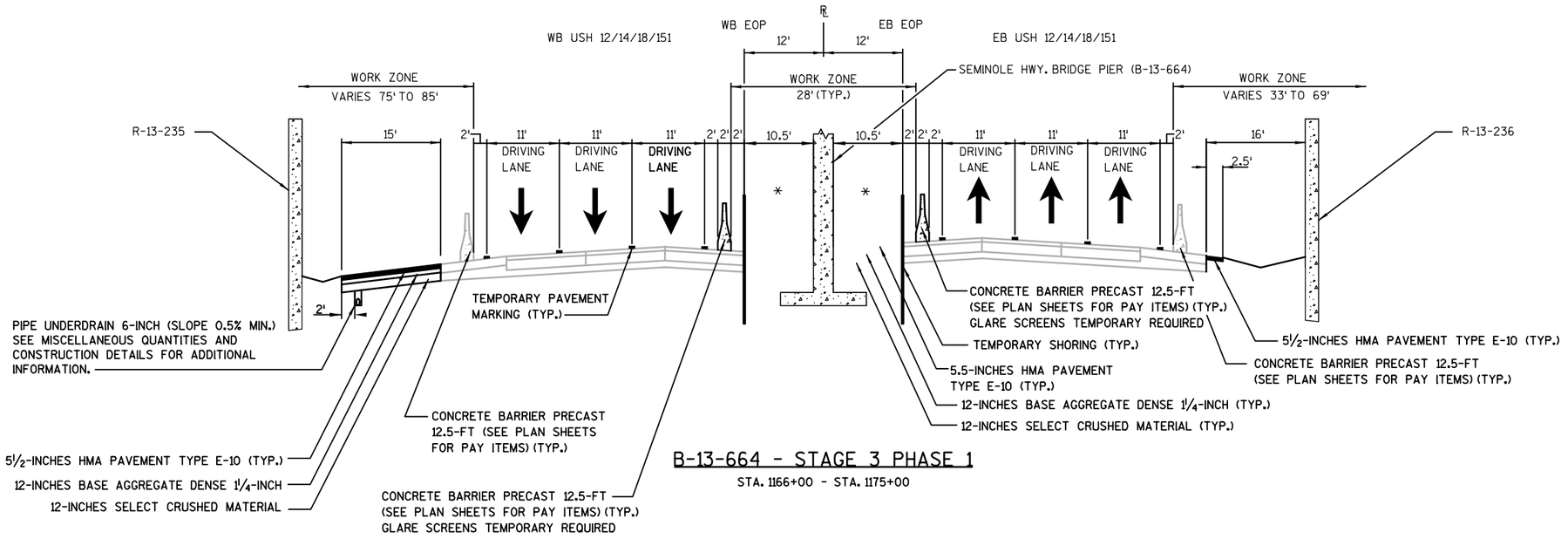
NOISE WALL N-13-2 - STAGE 1 PHASE 1

STA. 1158+50 - STA. 1177+34



NOISE WALL N-13-2 - STAGE 1 PHASE 2

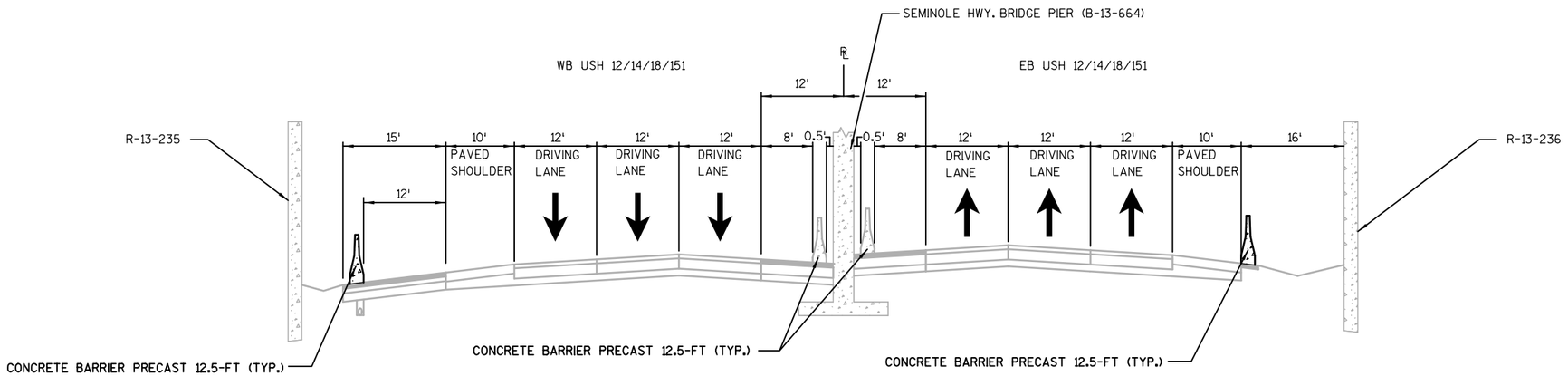
STA. 1158+50 - STA. 1174+16



* REPAVE EB AND WB USH 12/14/18/151 SHOULDERS STA 1168+50 - 1173+00

B-13-664 - STAGE 3 PHASE 1

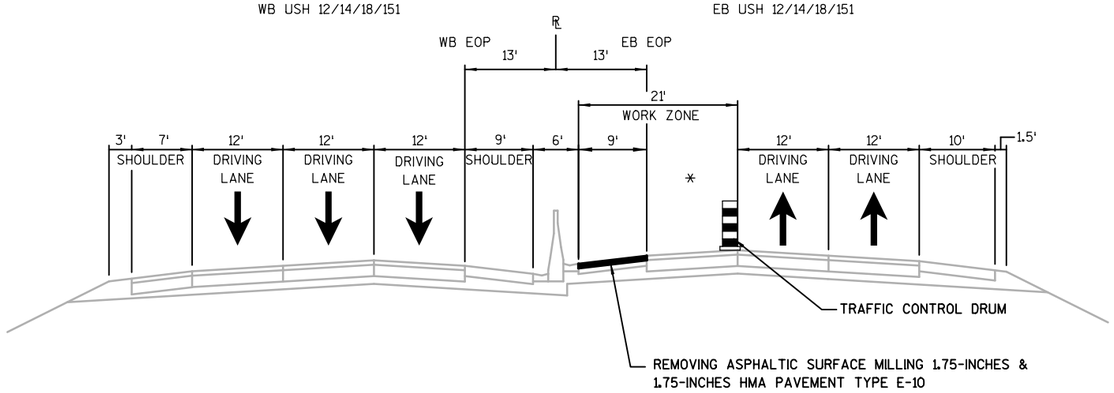
STA. 1166+00 - STA. 1175+00



B-13-664 - STAGE 3 PHASE 2

STA. 1165+00 - STA. 1177+50

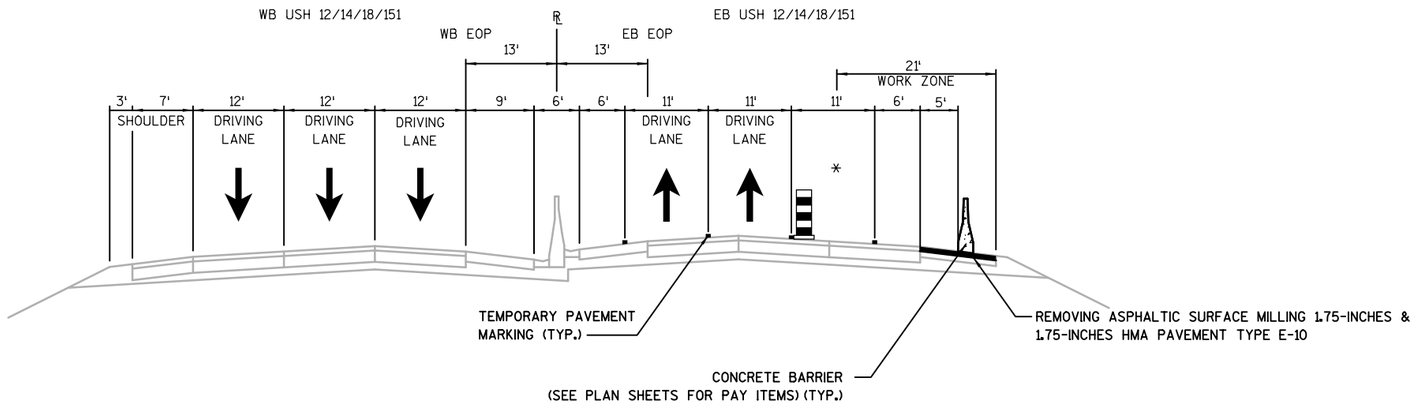
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - B-13-664	SHEET 449	E



* LANE CLOSURE DESIGNATED FOR NIGHTTIME PERIODS.

SEMINOLE FRONTAGE ROAD - STAGE 1 PHASE 1

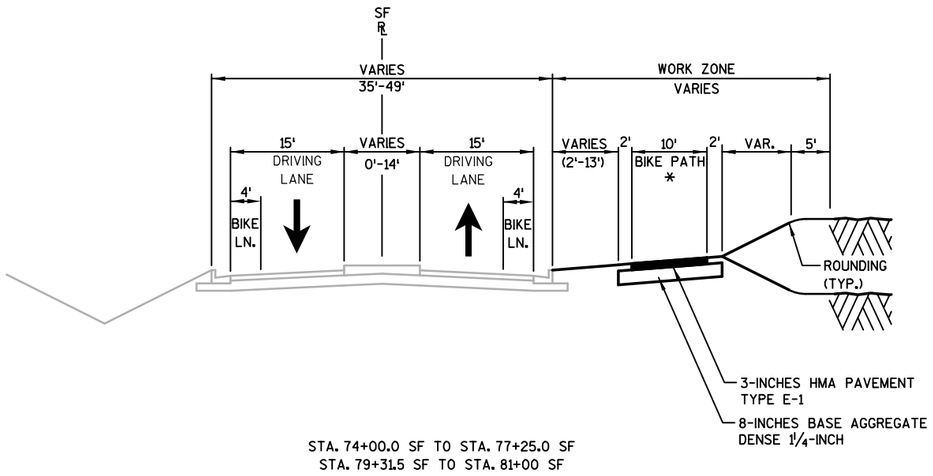
STA. 1166+40 - STA. 1198+00



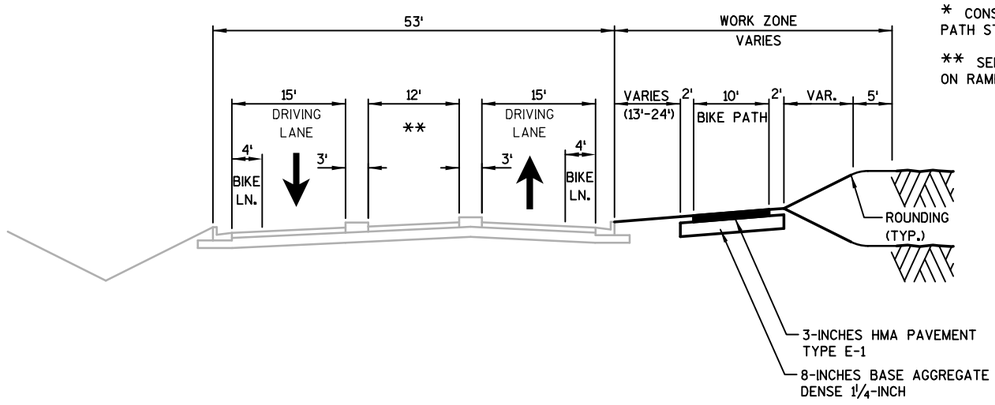
SEMINOLE FRONTAGE ROAD - STAGE 1 PHASE 2

STA. 1164+70 - STA. 1177+20

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - USH 12/14/18/151 (BELTLINE)	SHEET 450	E



STA. 74+00.0 SF TO STA. 77+25.0 SF
STA. 79+31.5 SF TO STA. 81+00 SF

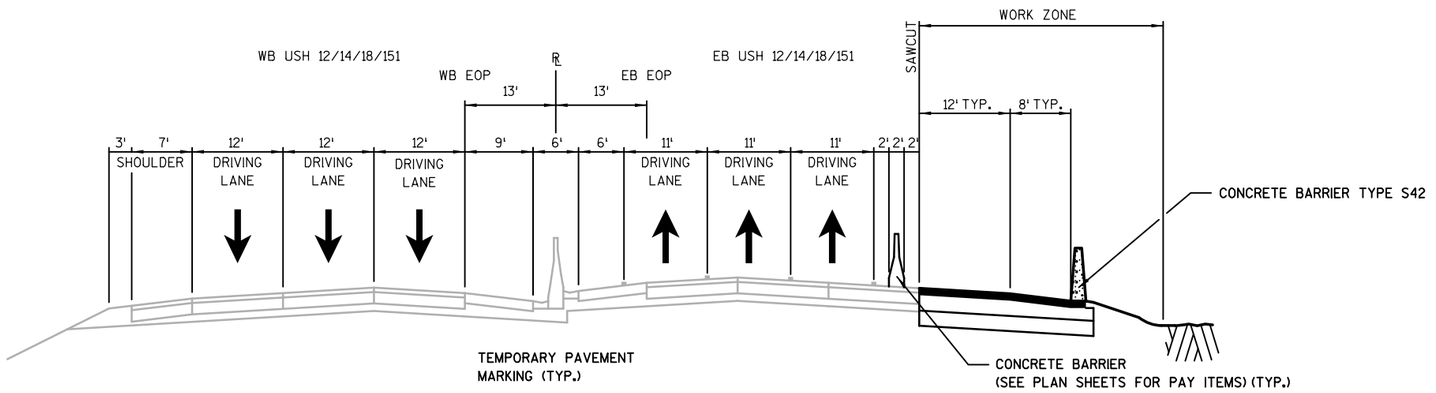


* CONSTRUCT TEMPORARY PEDESTRIAN PATH STA 81+00 - 84+00 SF

** SEMINOLE FRONTAGE ROAD EB ON RAMP CLOSED FOR CONSTRUCTION

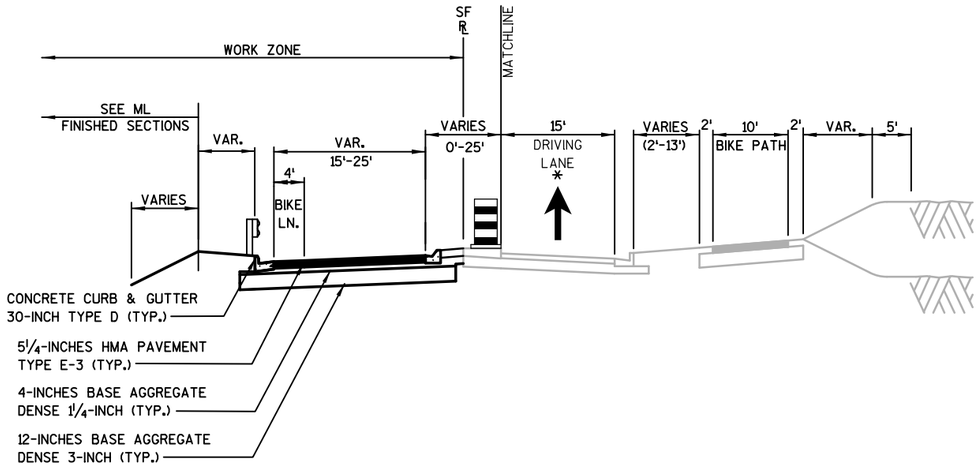
STA. 77+25.0 SF TO STA. 79+31.5 SF

SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 1



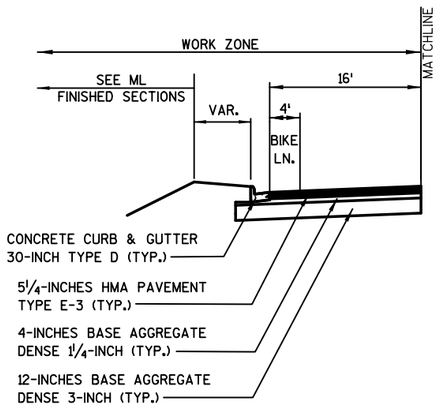
SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 2

STA. 1177+20 - STA. 1193+73

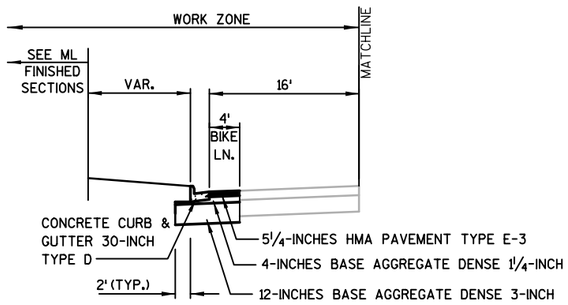


SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 2

STA. 73+50 SF TO STA. 77+88.5 SF
STA. 79+27 SF TO STA. 80+79 SF



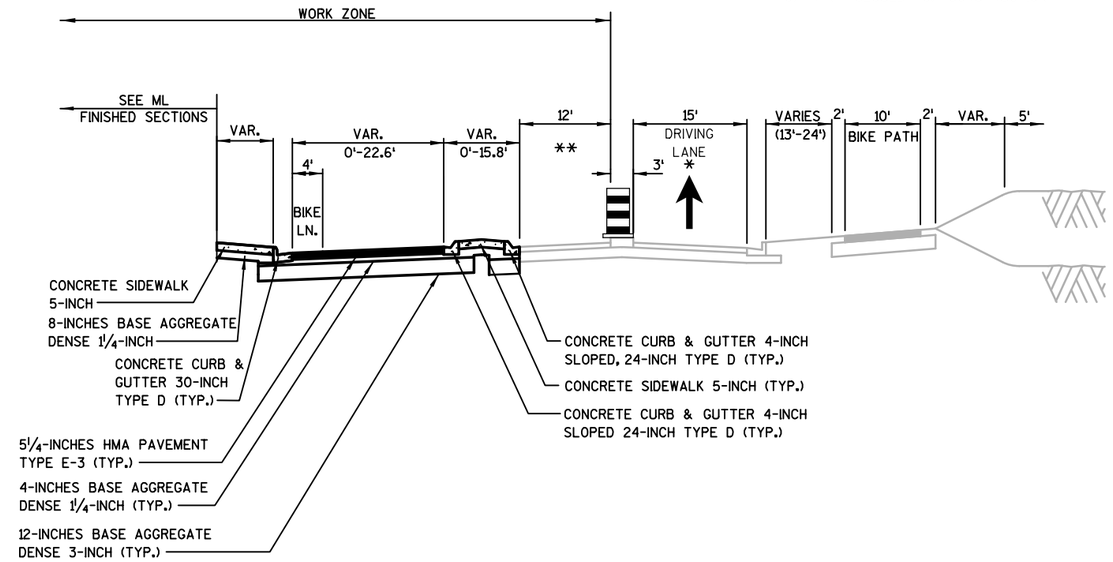
STA. 80+79 SF TO STA. 83+75 SF



STA. 83+75 SF TO STA. 89+50 SF

* EB ONE-WAY TRAFFIC ON SEMINOLE FRONTAGE ROAD, WB SEMINOLE FRONTAGE ROAD TRAFFIC DETOURED

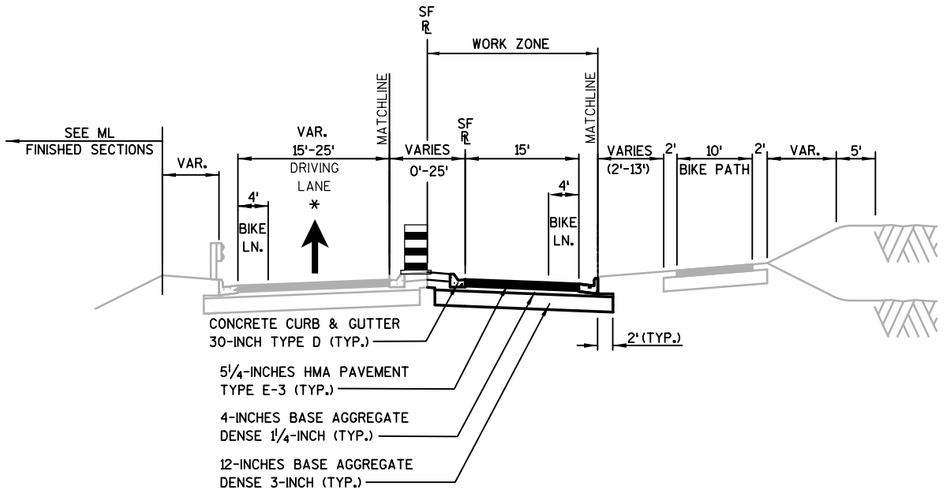
** SEMINOLE FRONTAGE ROAD EB ON RAMP CLOSED FOR CONSTRUCTION



SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 2

STA. 77+88.5 SF TO STA. 79+27 SF

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - SEMINOLE FRONTAGE ROAD	SHEET 452	E

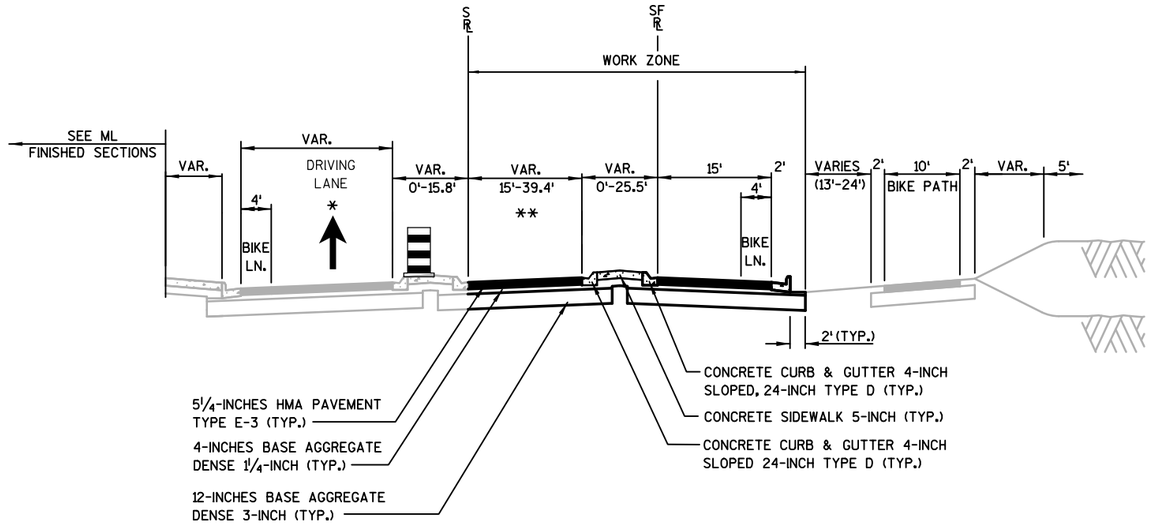


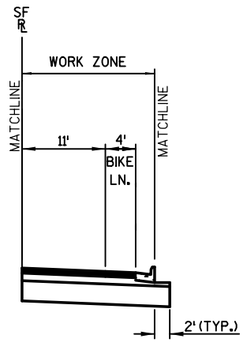
STAGE 2 PHASE 3 TRAFFIC CONTROL SECTION - SEMINOLE FRONTAGE ROAD

STA. 73+50 SF TO STA. 77+88.5 SF
STA. 79+27 SF TO STA. 80+79 SF

* EB ONE-WAY TRAFFIC ON SEMINOLE FRONTAGE ROAD, WB SEMINOLE FRONTAGE ROAD TRAFFIC DETOURED

** SEMINOLE FRONTAGE ROAD EB ON RAMP CLOSED FOR CONSTRUCTION

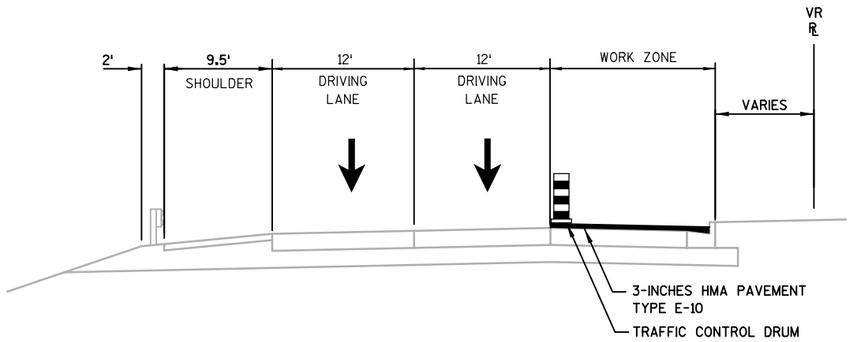




STA. 80+79 SF TO STA. 83+75 SF

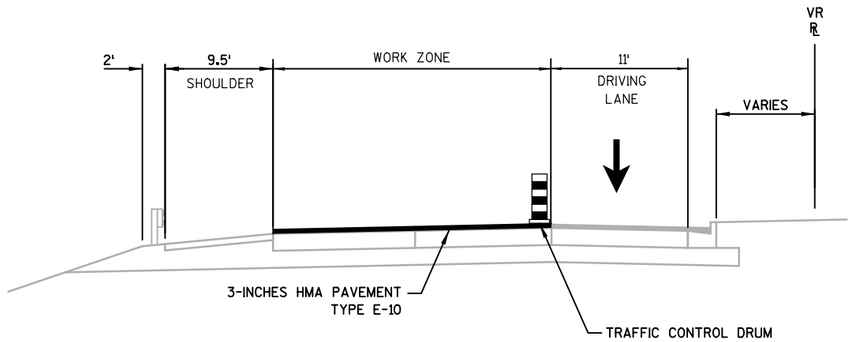
STAGE 2 PHASE 3 TRAFFIC CONTROL SECTION - SEMINOLE FRONTAGE ROAD

STA. 77+88.5 SF TO STA. 79+27 SF



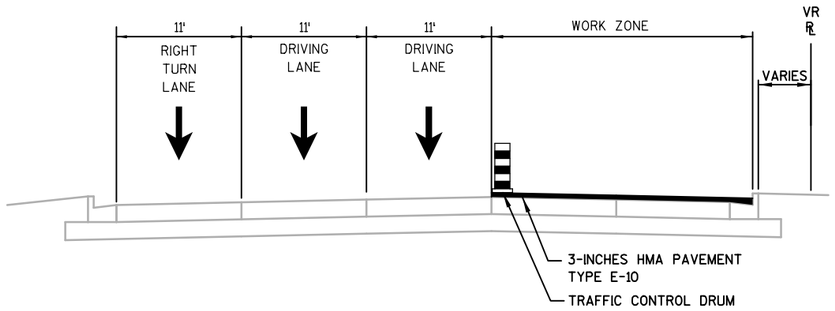
USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 1A

STA. 975+15 VR TO STA. 986+85 VR



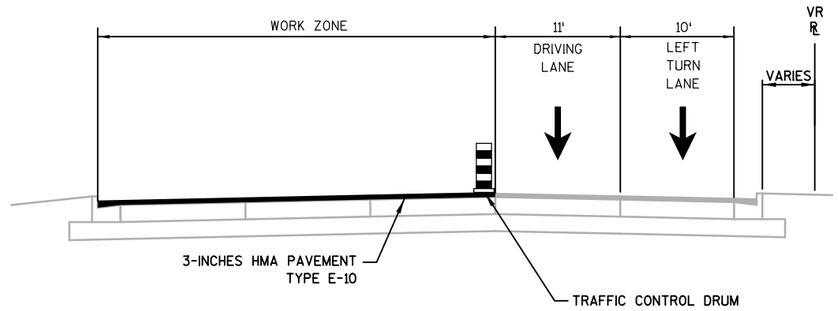
USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 1B

STA. 975+15 VR TO STA. 986+85 VR



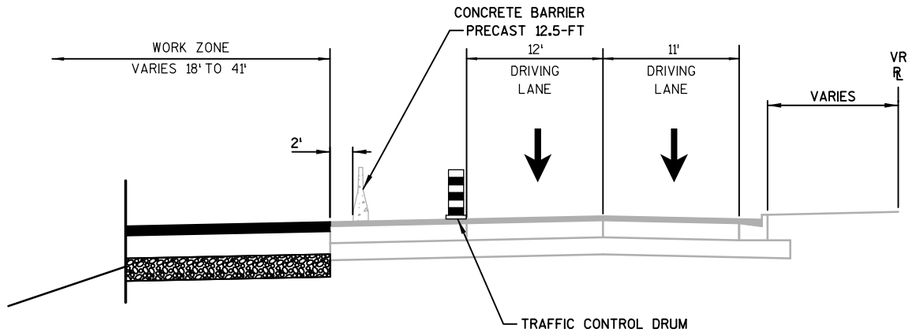
USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 1A

STA. 986+85 VR TO STA. 997+80 VR



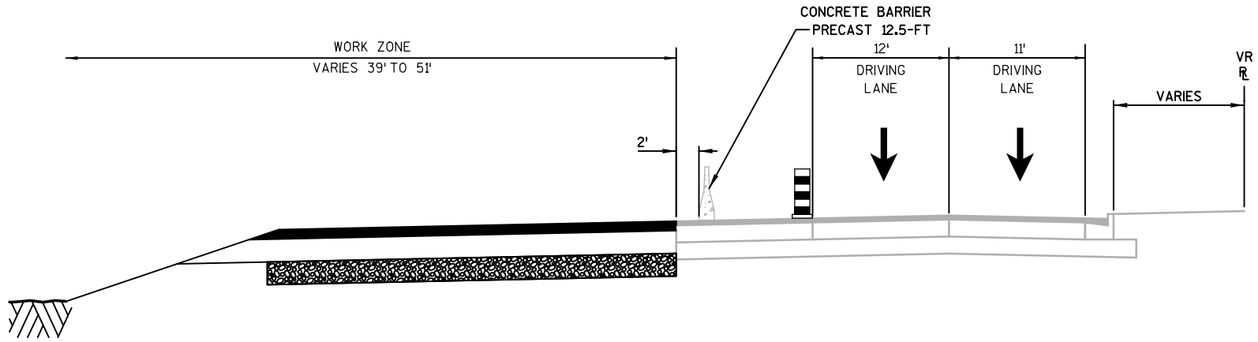
USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 1B

STA. 986+85 VR TO STA. 997+80 VR



USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 2A

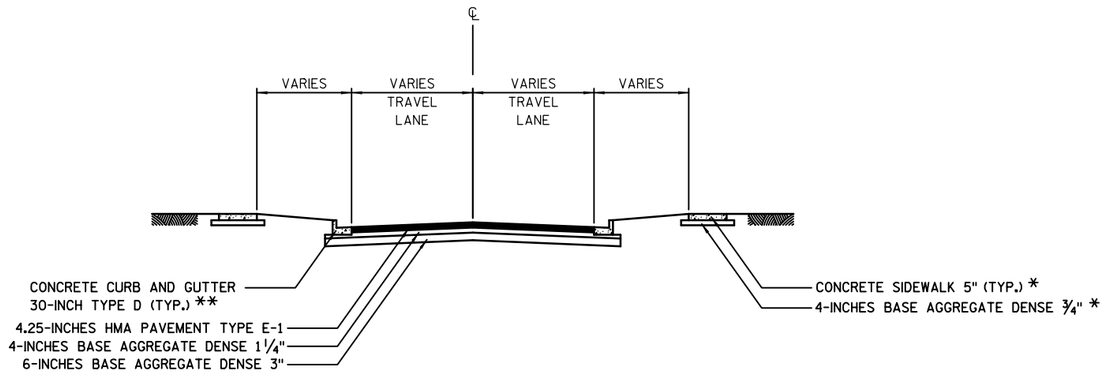
STA. 975+15 VR TO STA. 982+80 VR



USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 2A

STA. 982+80 VR TO STA. 986+85 VR

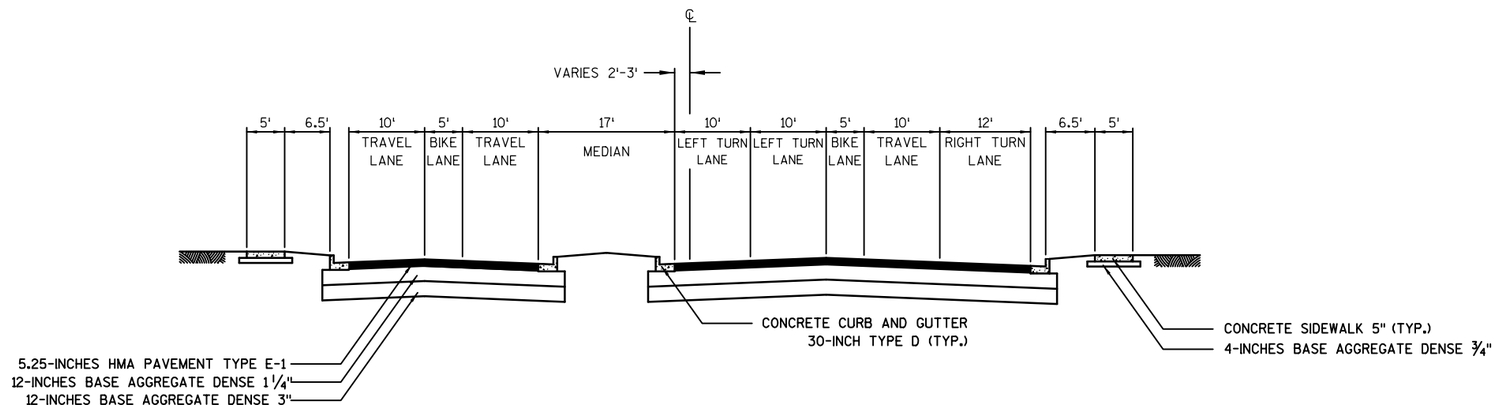
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION - VERONA ROAD	SHEET 455	E



WEST VERONA ROAD FRONTAGE ROAD/EAST VERONA ROAD FRONTAGE ROAD

STA. 94+93 EE - STA. 95+24 EE
STA. 98+11 EE - STA. 98+11 WN
STA. 116+71 EE - STA. 117+09 EE
STA. 107+00 WN - STA. 109+00 WN

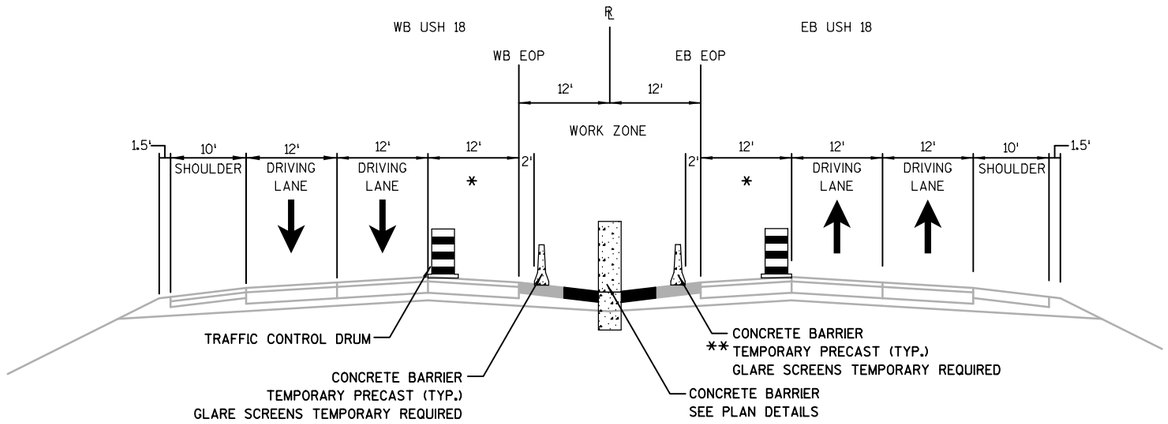
* NOT PRESENT IN ALL LOCATIONS. SEE PLAN DETAILS
** REPLACE EXISTING CURB AND GUTTER WHERE APPLICABLE. SEE PLAN DETAILS



SUMMIT ROAD (WEST)

STA. 98+74 SU - STA. 99+02 SU

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION - VERONA ROAD (SIDE ROADS)	SHEET 456	E



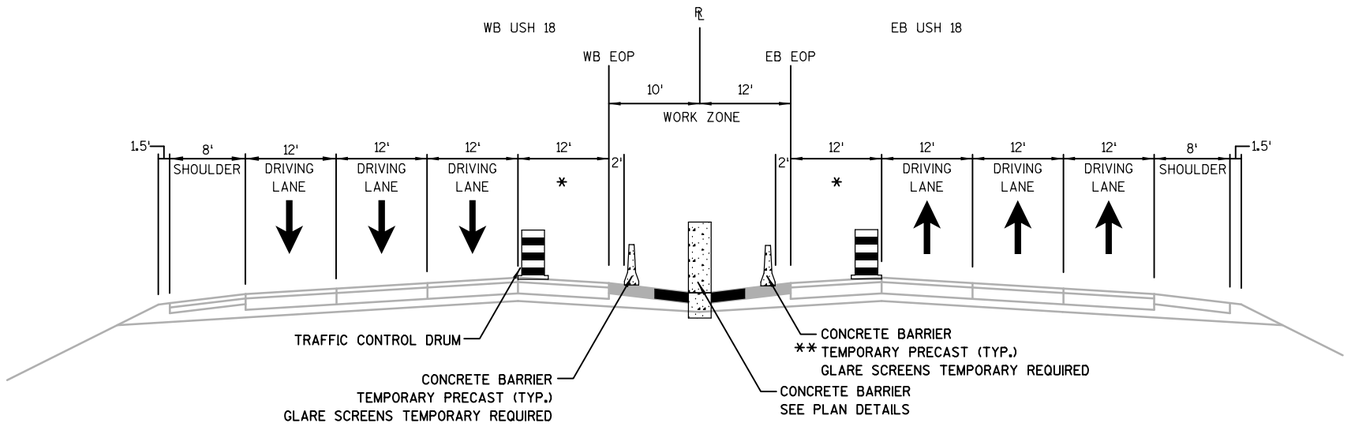
TRAFFIC CONTROL SECTION - TODD DRIVE DMS (DMS-13-32/33)

STA. 1210+00 - STA. 1215+00

* LANE CLOSURE DESIGNATED FOR OFF-PEAK PERIODS ONLY

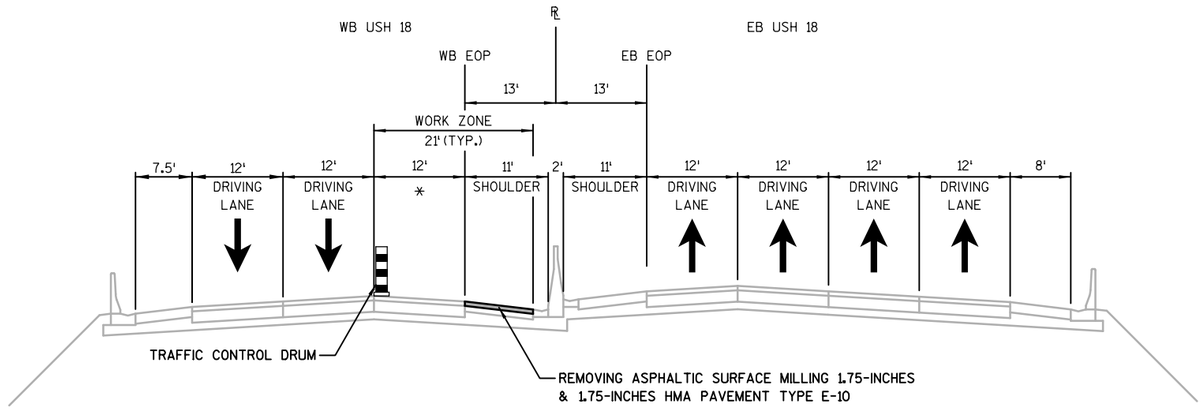
** MOVING CONCRETE BARRIER TEMPORARY PRECAST REQUIRED FOR ACCESS DURING OFF-PEAK PERIODS

SEE MISCELLANEOUS QUANTITY CONCRETE BARRIER TEMPORARY PRECAST INSTALLED



TRAFFIC CONTROL SECTION - JOHN NOLEN DRIVE (DMS-13-34/35)

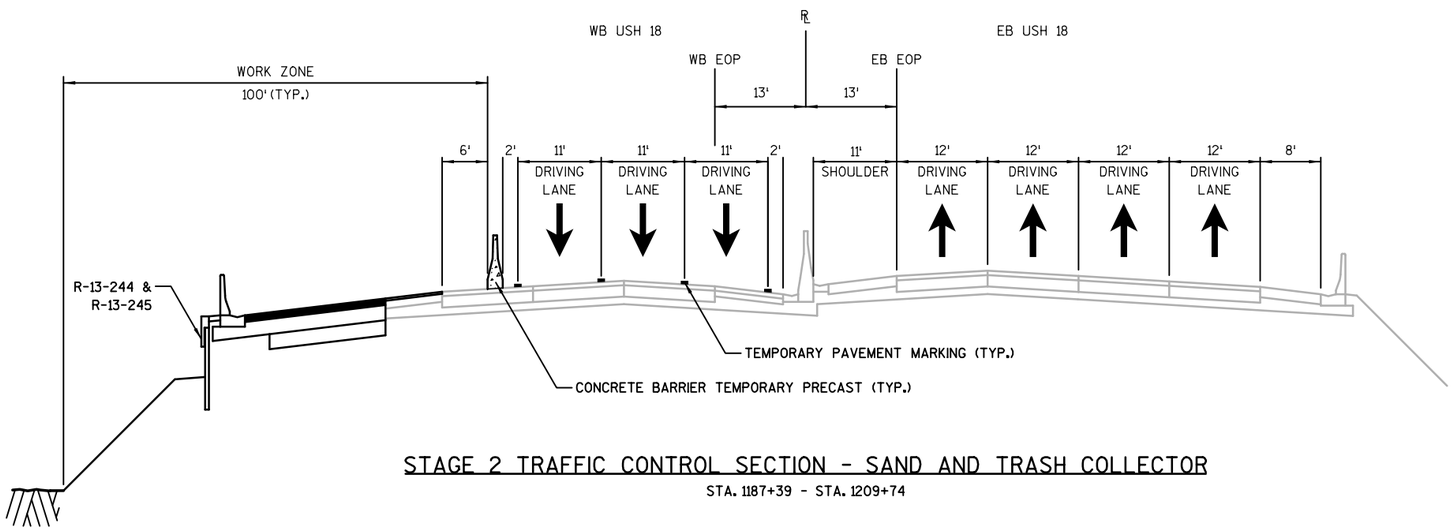
STA. 1385+00 JN - STA. 1389+00 JN



* LANE CLOSURE DESIGNATED FOR OFF-PEAK PERIODS ONLY

STAGE 1 TRAFFIC CONTROL SECTION - SAND AND TRASH COLLECTOR

STA. 1187+39 - STA. 1209+74

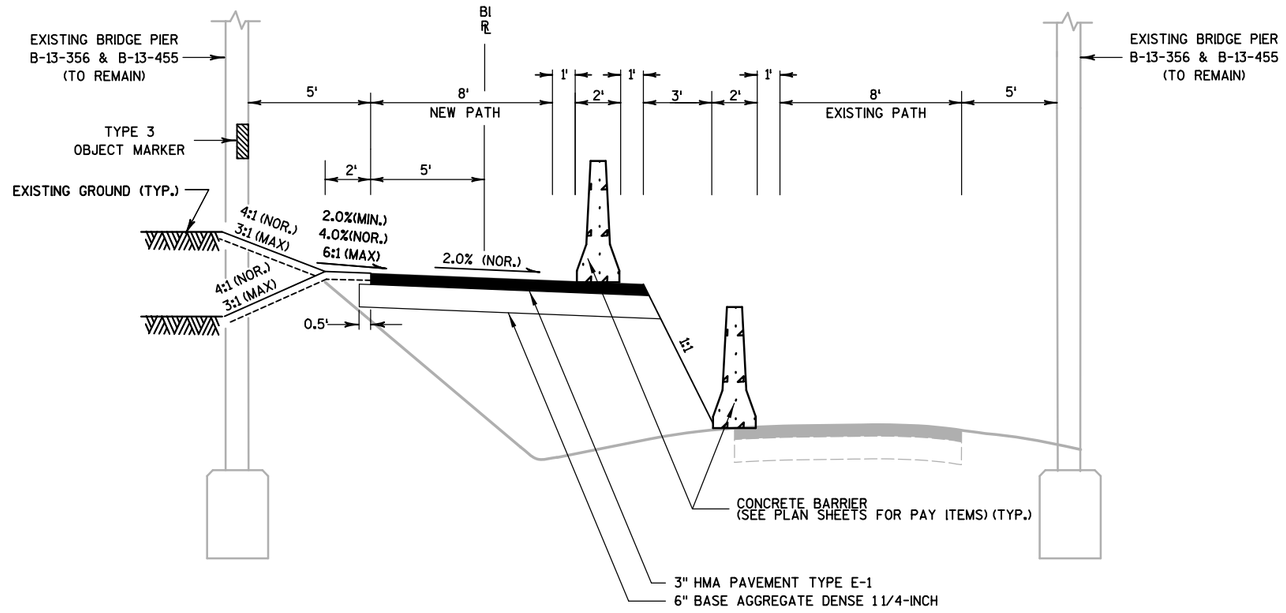


STAGE 2 TRAFFIC CONTROL SECTION - SAND AND TRASH COLLECTOR

STA. 1187+39 - STA. 1209+74

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - N-13-0002	SHEET 458	E

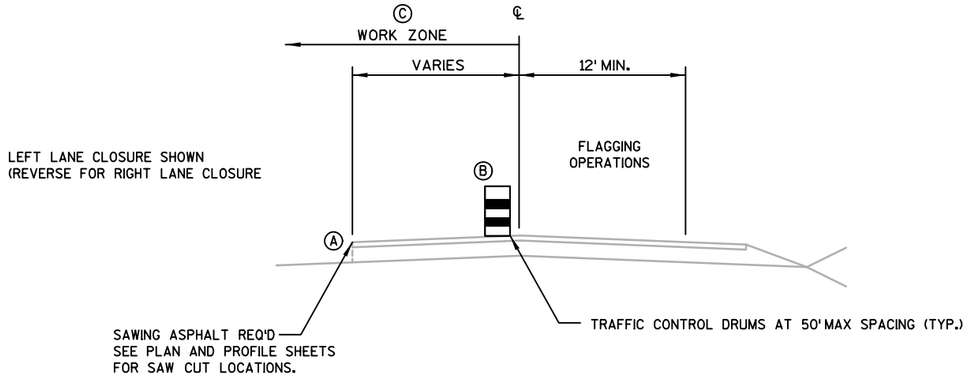
2



TRAFFIC CONTROL - US 18/151 (VERONA ROAD) - STAGE 3 PHASE 1

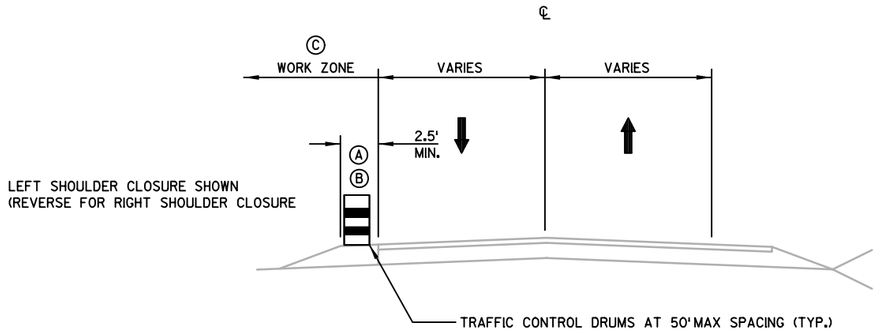
STA. 99+9 BI - STA. 15+75 BI

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION	SHEET 459	E



TYPICAL SECTION (RURAL) - OFF PEAK HOUR

SEMINOLE HIGHWAY AND LACY ROAD
FISH HATCHERY AND WHALEN ROAD
FISH HATCHERY AND CTH M
CTH M AND CTH PB (ON CTH M)



TYPICAL SECTION (RURAL) - PEAK HOUR

SEMINOLE HIGHWAY AND LACY ROAD
FISH HATCHERY AND WHALEN ROAD
FISH HATCHERY AND CTH M
CTH M AND CTH PB (ON CTH M)

FOR ADDITIONAL INFORMATION USE STANDARD DETAIL DRAWINGS

"TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

"TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

"TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)"

"TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

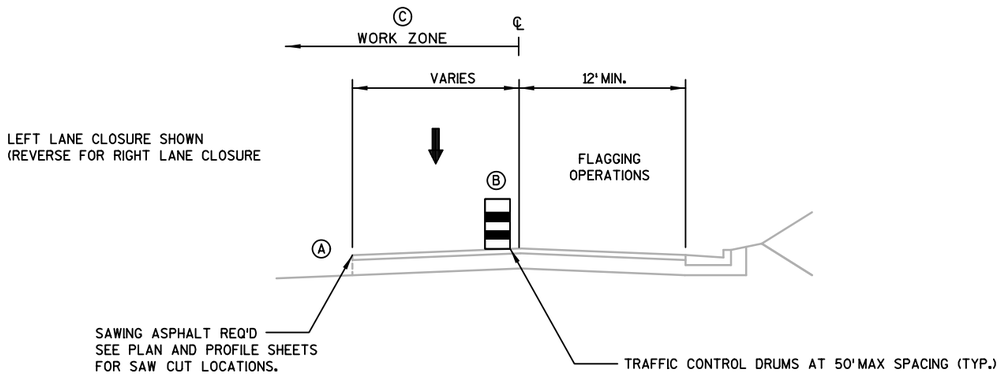
"TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE"

"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

Ⓐ ELIMINATE PAVEMENT DROP-OFFS GREATER THAN 2-INCHES AND ANY SLOPES STEEPER THAN 3:1 WITHIN CLEAR ZONE DURING PEAK HOURS OR WHEN NOT WORKING IN THE AREA ADJACENT TO THE PAVEMENT SURFACE. MATERIAL IS INCIDENTAL TO OTHER BID ITEMS.

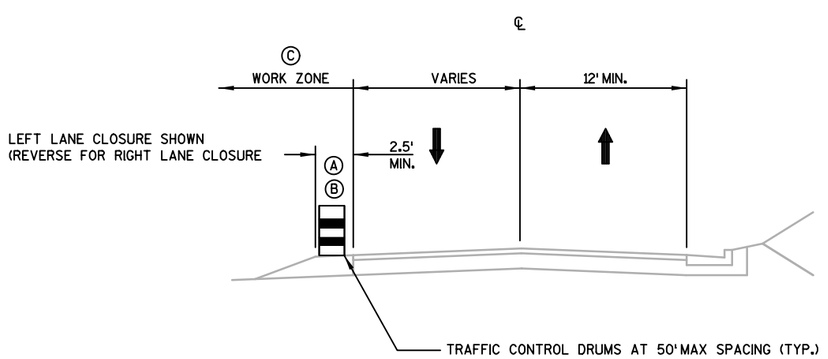
Ⓑ NO ENCROACHMENT BY TRAFFIC CONTROL DEVICES OR THE WORK OPERATION WILL BE ALLOWED.

Ⓒ SEE PAVING DETAIL SHEETS FOR WORK ZONE LIMITS.



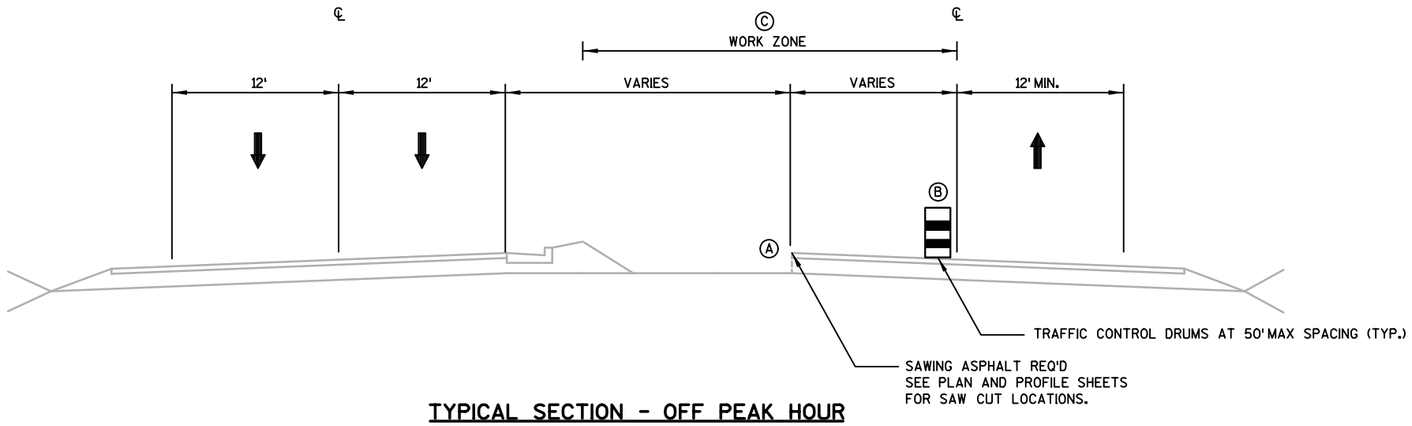
TYPICAL SECTION (URBAN) - OFF PEAK HOUR

CTH M AND CTH PB (ON CTH PB)
WHITNEY WAY AND GILBERT ROAD
SEMINOLE HIGHWAY AND SENTINEL PASS
SEMINOLE HIGHWAY/YUMA AND NAKOMA ROAD



TYPICAL SECTION (URBAN) - OFF PEAK HOUR

CTH M AND CTH PB (ON CTH PB)
WHITNEY WAY AND GILBERT ROAD
SEMINOLE HIGHWAY AND SENTINEL PASS
SEMINOLE HIGHWAY/YUMA AND NAKOMA ROAD



TYPICAL SECTION - OFF PEAK HOUR

CTH M AND CTH PB (ON CTH PB)
WHITNEY WAY AND GILBERT ROAD
SEMINOLE HIGHWAY AND CTH PB

RIGHT SIDE OF DIVIDED ROADWAY SHOWN
(REVERSE FOR RIGHT LANE CLOSURE

FOR ADDITIONAL INFORMATION USE STANDARD DETAIL DRAWINGS

"TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

"TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

"TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)"

"TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

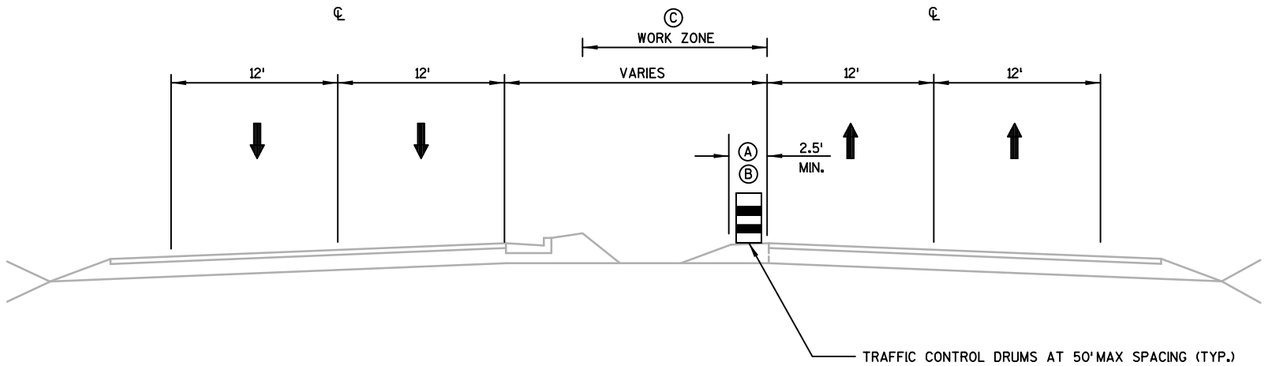
"TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE"

"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

Ⓐ ELIMINATE PAVEMENT DROP-OFFS GREATER THAN 2-INCHES AND ANY SLOPES STEEPER THAN 3:1 WITHIN CLEAR ZONE DURING PEAK HOURS OR WHEN NOT WORKING IN THE AREA ADJACENT TO THE PAVEMENT SURFACE. MATERIAL IS INCIDENTAL TO OTHER BID ITEMS.

Ⓑ NO ENCROACHMENT BY TRAFFIC CONTROL DEVICES OR THE WORK OPERATION WILL BE ALLOWED.

Ⓒ SEE PAVING DETAIL SHEETS FOR WORK ZONE LIMITS.

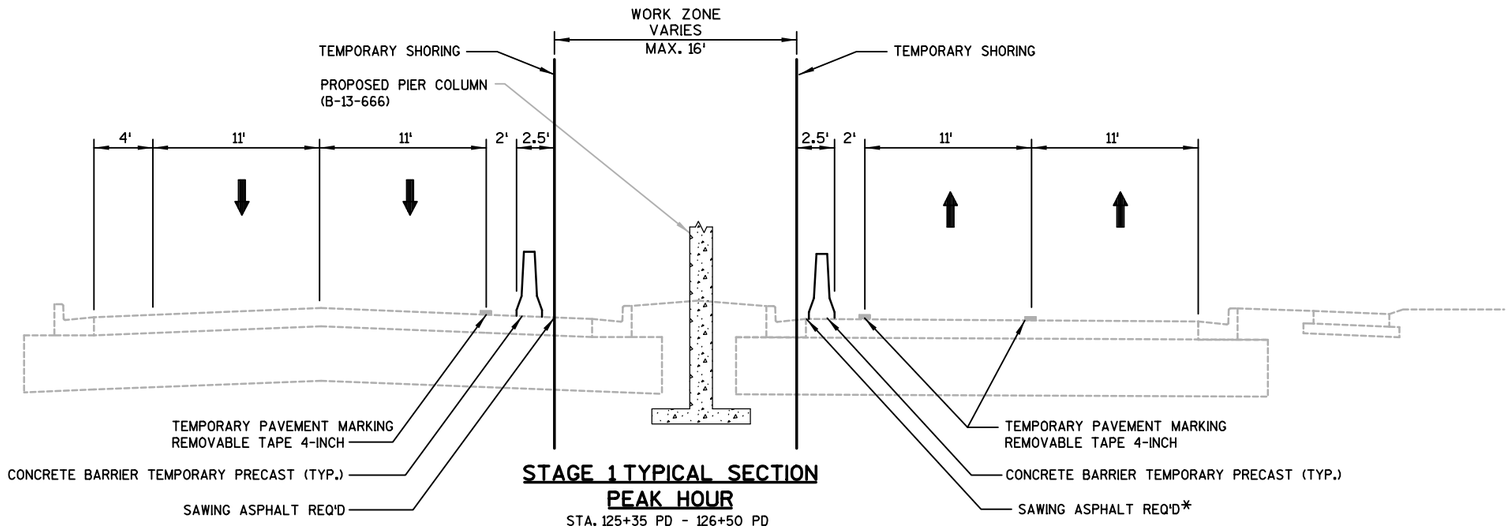


TYPICAL SECTION - PEAK HOUR

CTH M AND CTH PB (ON CTH PB)
WHITNEY WAY AND GILBERT ROAD
SEMINOLE HIGHWAY AND CTH PB

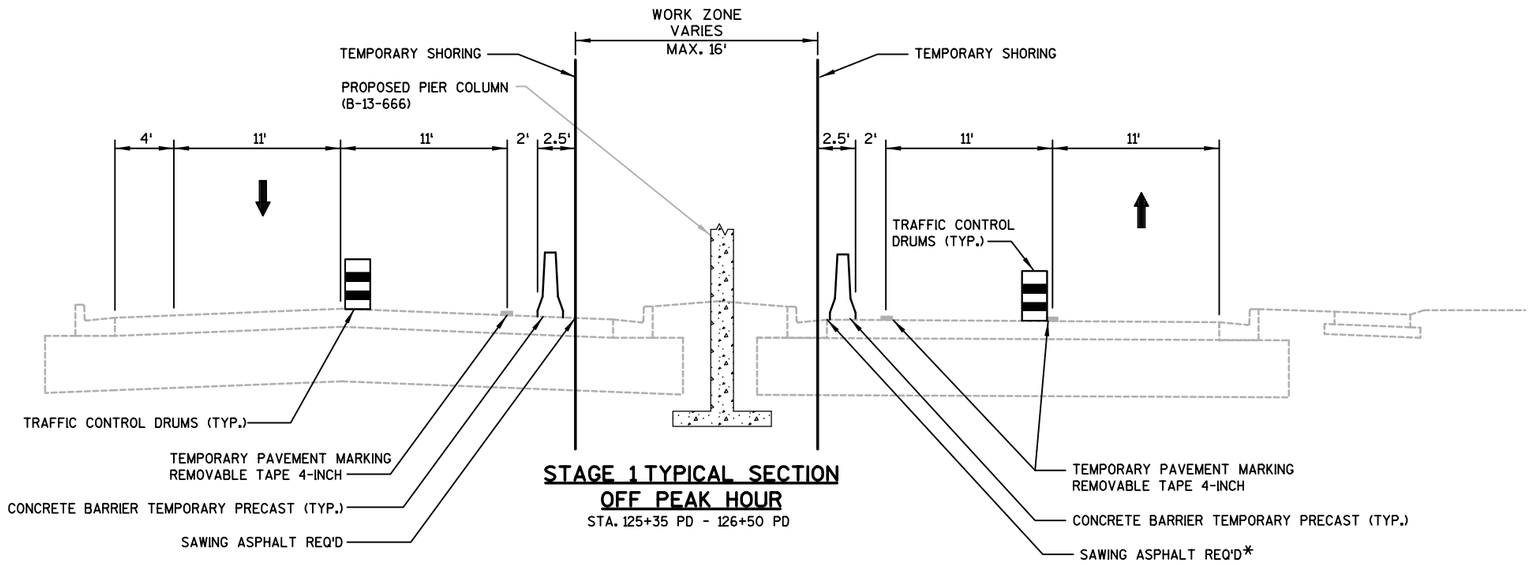
RIGHT SIDE OF DIVIDED ROADWAY SHOWN
(REVERSE FOR RIGHT LANE CLOSURE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - INTERSECTIONS	SHEET 461	E



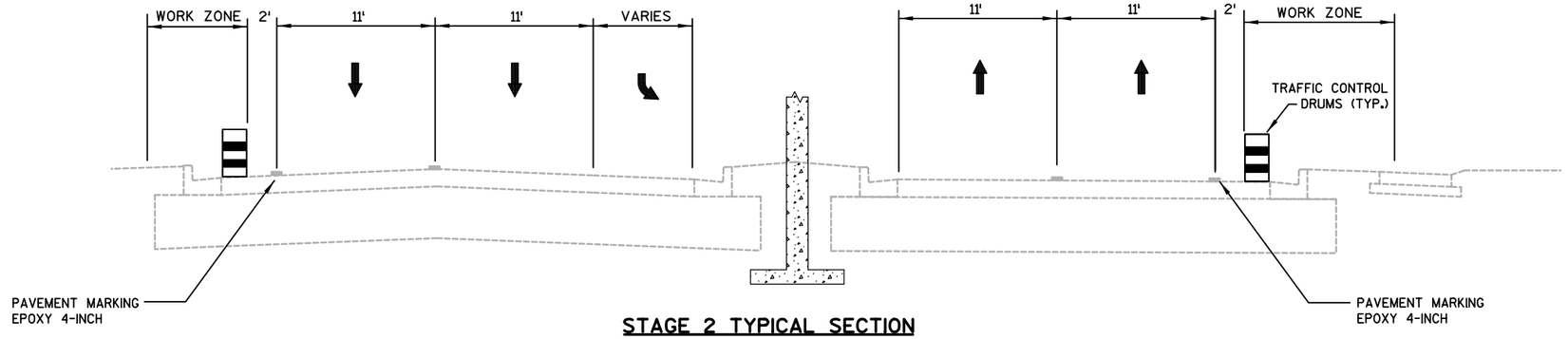
STAGE 1 TYPICAL SECTION
PEAK HOUR
STA. 125+35 PD - 126+50 PD

* SAW APHALT TO PROVIDE CLEAN, UNIFORM EDGE PRIOR TO INSTALLATION OF NEW CURB AND GUTTER

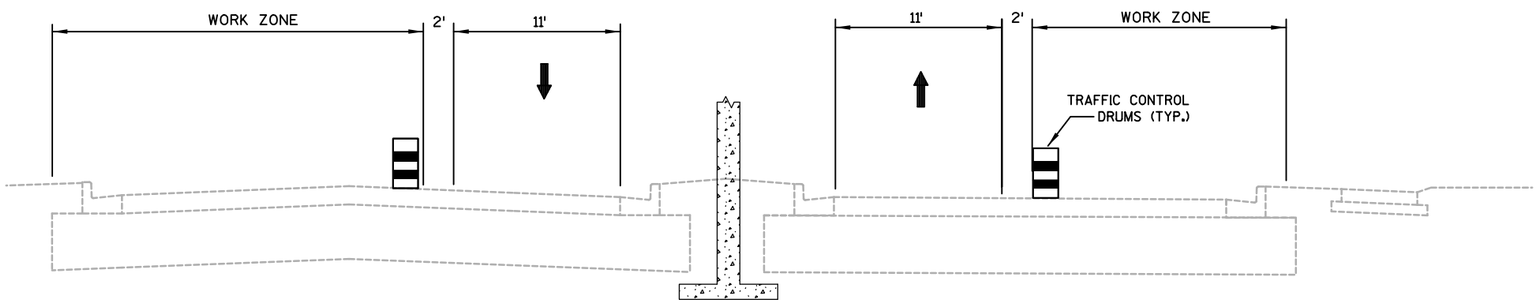


STAGE 1 TYPICAL SECTION
OFF PEAK HOUR
STA. 125+35 PD - 126+50 PD

* SAW APHALT TO PROVIDE CLEAN, UNIFORM EDGE PRIOR TO INSTALLATION OF NEW CURB AND GUTTER



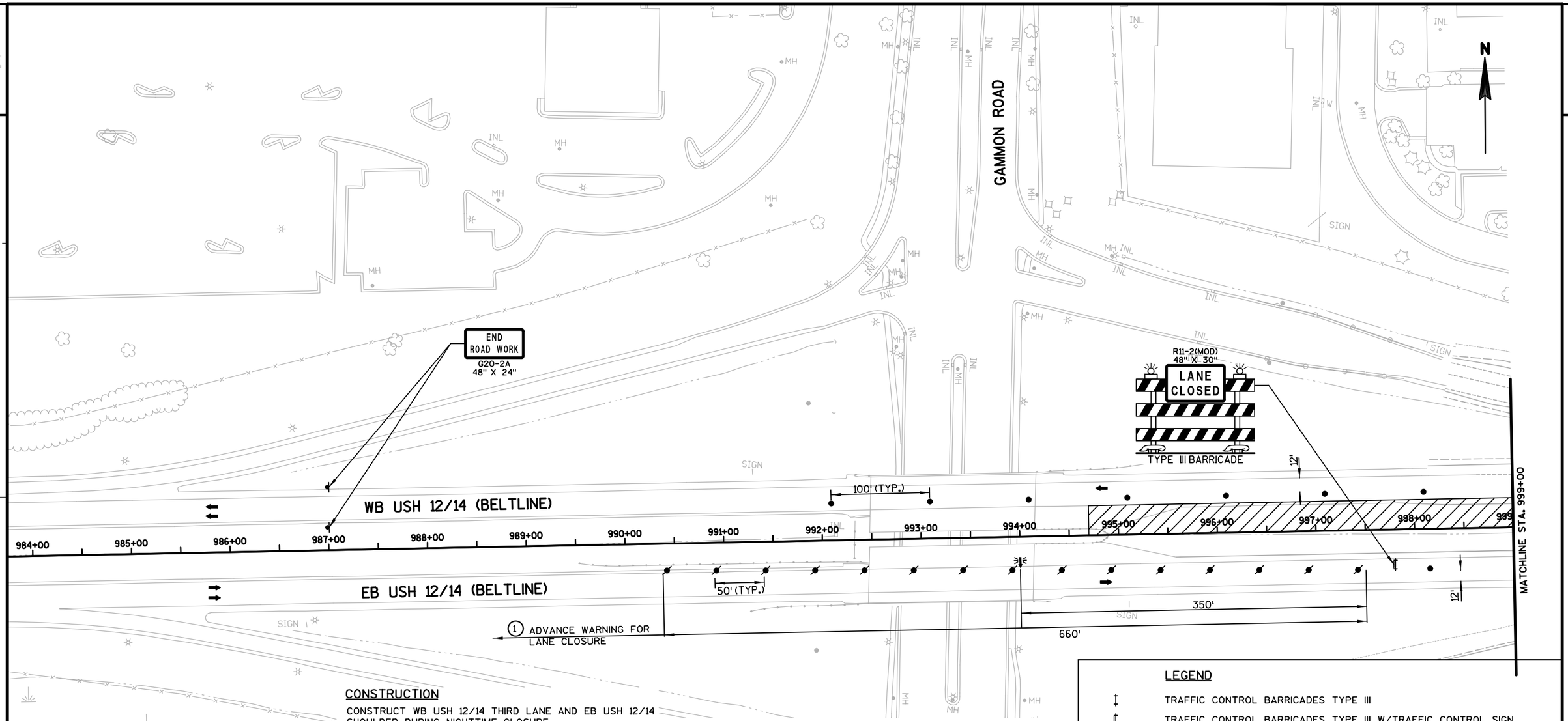
STAGE 2 TYPICAL SECTION
PEAK HOUR
STA. 123+00 PD 128+85 PD



STAGE 2 TYPICAL SECTION
OFF PEAK HOUR
STA. 121+45 PD - 132+30 PD

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTIONS - MILITARY RIDGE PATH	SHEET 463	E

2



CONSTRUCTION

CONSTRUCT WB USH 12/14 THIRD LANE AND EB USH 12/14 SHOULDER DURING NIGHTTIME CLOSURE.

MILL AND REPAVE WB USH 12/14 MEDIAN LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTRUCT WHITNEY WAY BIKE PATH.

INSTALL MEDIAN GUARDRAIL DURING NIGHTTIME CLOSURE.

INSTALL DMS BASE IN MEDIAN (SEE DMS-13-31).

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT (11 FT LANES).

NIGHTTIME MEDIAN LANE CLOSURES AND DAYTIME MEDIAN SHOULDER CLOSURES.

PROVIDE BIKE ACCESS TO ODANA ROAD FROM THE EXISTING WHITNEY WAY BIKE PATH AT ALL TIMES.

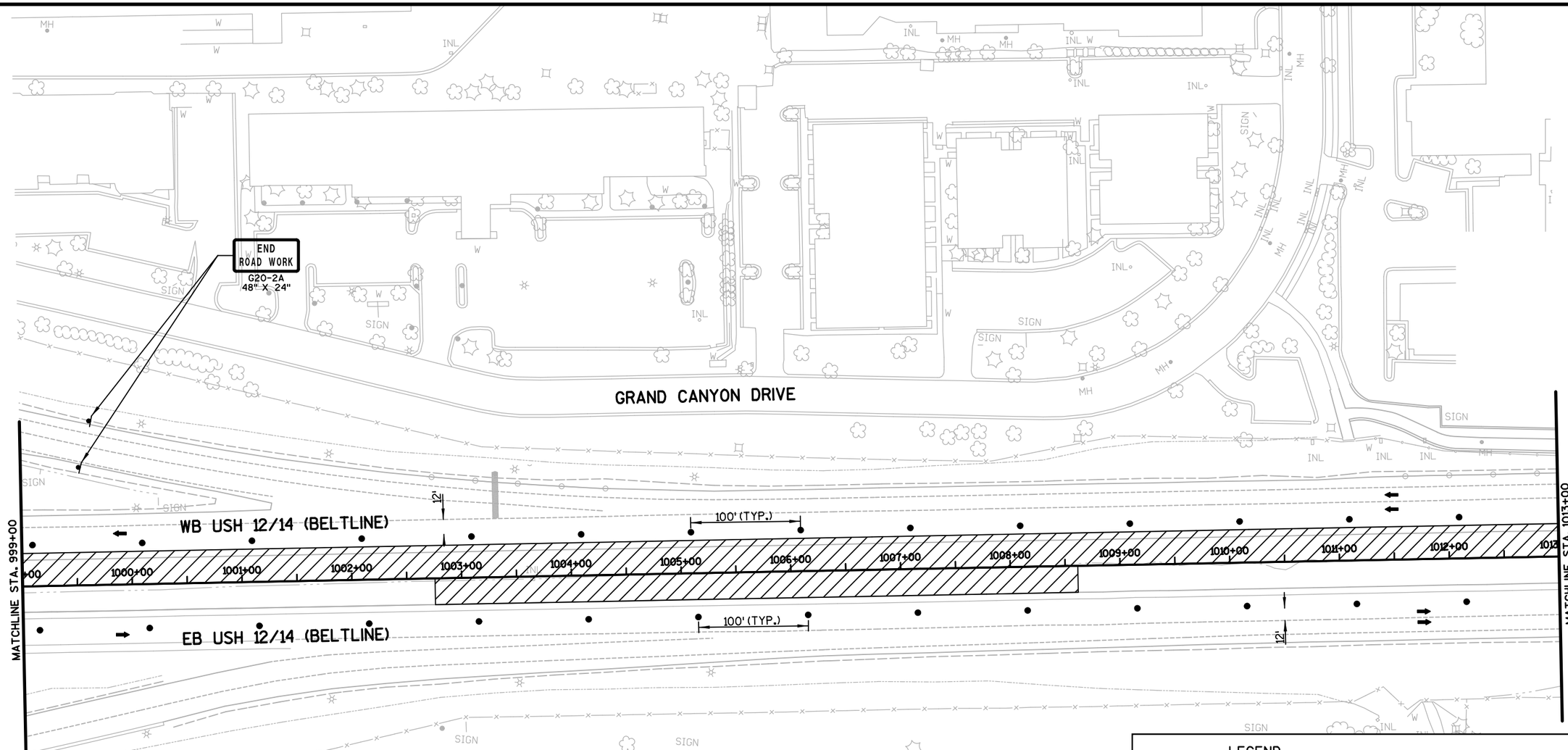
STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 1	SHEET 464	E



CONSTRUCTION

CONSTRUCT WB USH 12/14 THIRD LANE AND EB USH 12/14 SHOULDER DURING NIGHTTIME CLOSURE.

MILL AND REPAVE WB USH 12/14 MEDIAN LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTRUCT WHITNEY WAY BIKE PATH.

INSTALL MEDIAN GUARDRAIL DURING NIGHTTIME CLOSURE.

INSTALL DMS BASE IN MEDIAN (SEE DMS-13-31).

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT (11 FT LANES).

NIGHTTIME MEDIAN LANE CLOSURES AND DAYTIME MEDIAN SHOULDER CLOSURES.

PROVIDE BIKE ACCESS TO ODANA ROAD FROM THE EXISTING WHITNEY WAY BIKE PATH AT ALL TIMES.

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

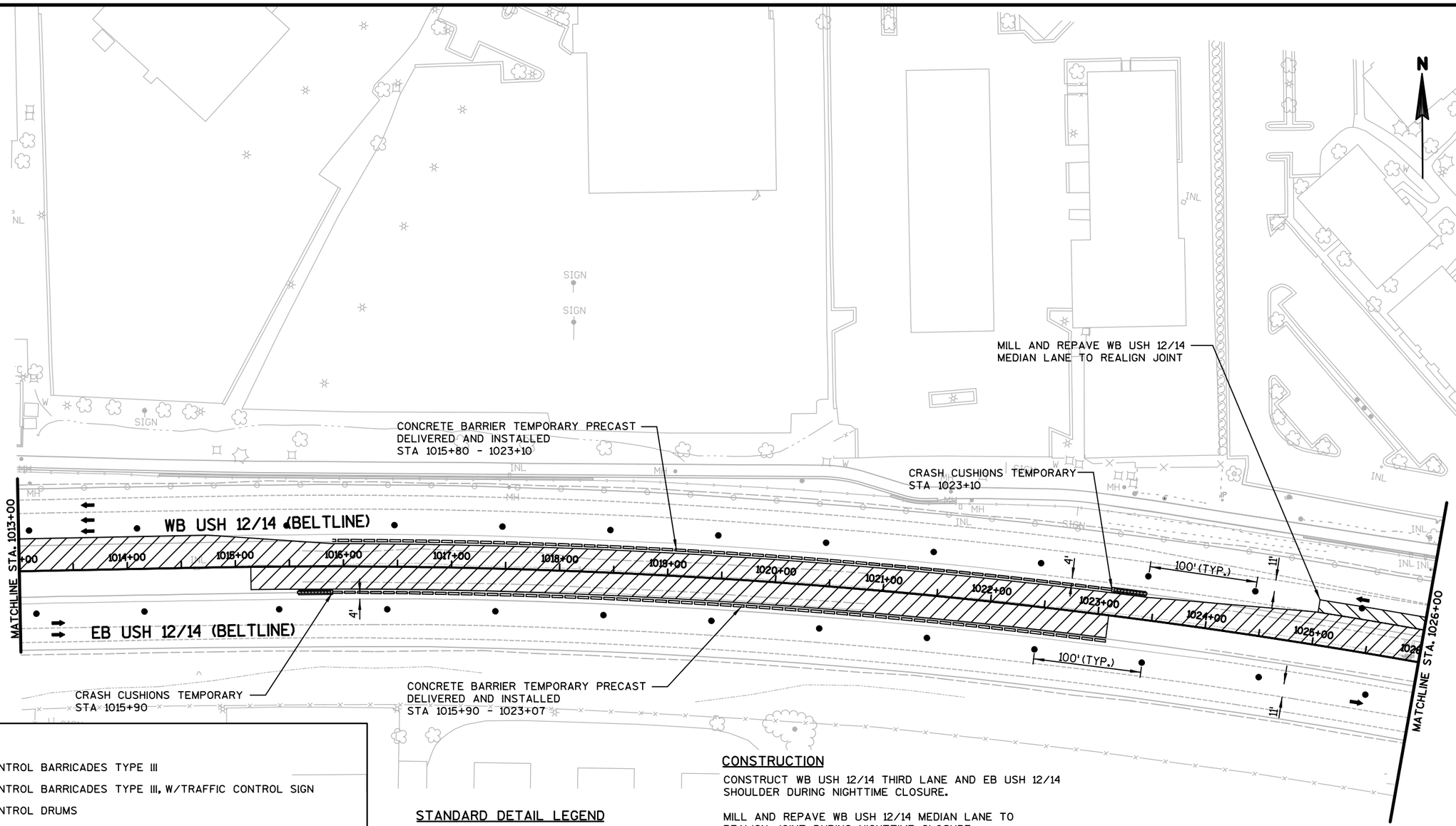
LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 1	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026100a_s1_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT WB USH 12/14 THIRD LANE AND EB USH 12/14 SHOULDER DURING NIGHTTIME CLOSURE.

MILL AND REPAVE WB USH 12/14 MEDIAN LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTRUCT WHITNEY WAY BIKE PATH.

INSTALL MEDIAN GUARDRAIL DURING NIGHTTIME CLOSURE.

INSTALL DMS BASE IN MEDIAN (SEE DMS-13-31).

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT (11 FT LANES).

NIGHTTIME MEDIAN LANE CLOSURES AND DAYTIME MEDIAN SHOULDER CLOSURES.

PROVIDE BIKE ACCESS TO ODANA ROAD FROM THE EXISTING WHITNEY WAY BIKE PATH AT ALL TIMES.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 1	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026100b_s1_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT WB USH 12/14 THIRD LANE AND EB USH 12/14 SHOULDER DURING NIGHTTIME CLOSURE.

MILL AND REPAVE WB USH 12/14 MEDIAN LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTRUCT WHITNEY WAY BIKE PATH.

INSTALL MEDIAN GUARDRAIL DURING NIGHTTIME CLOSURE.

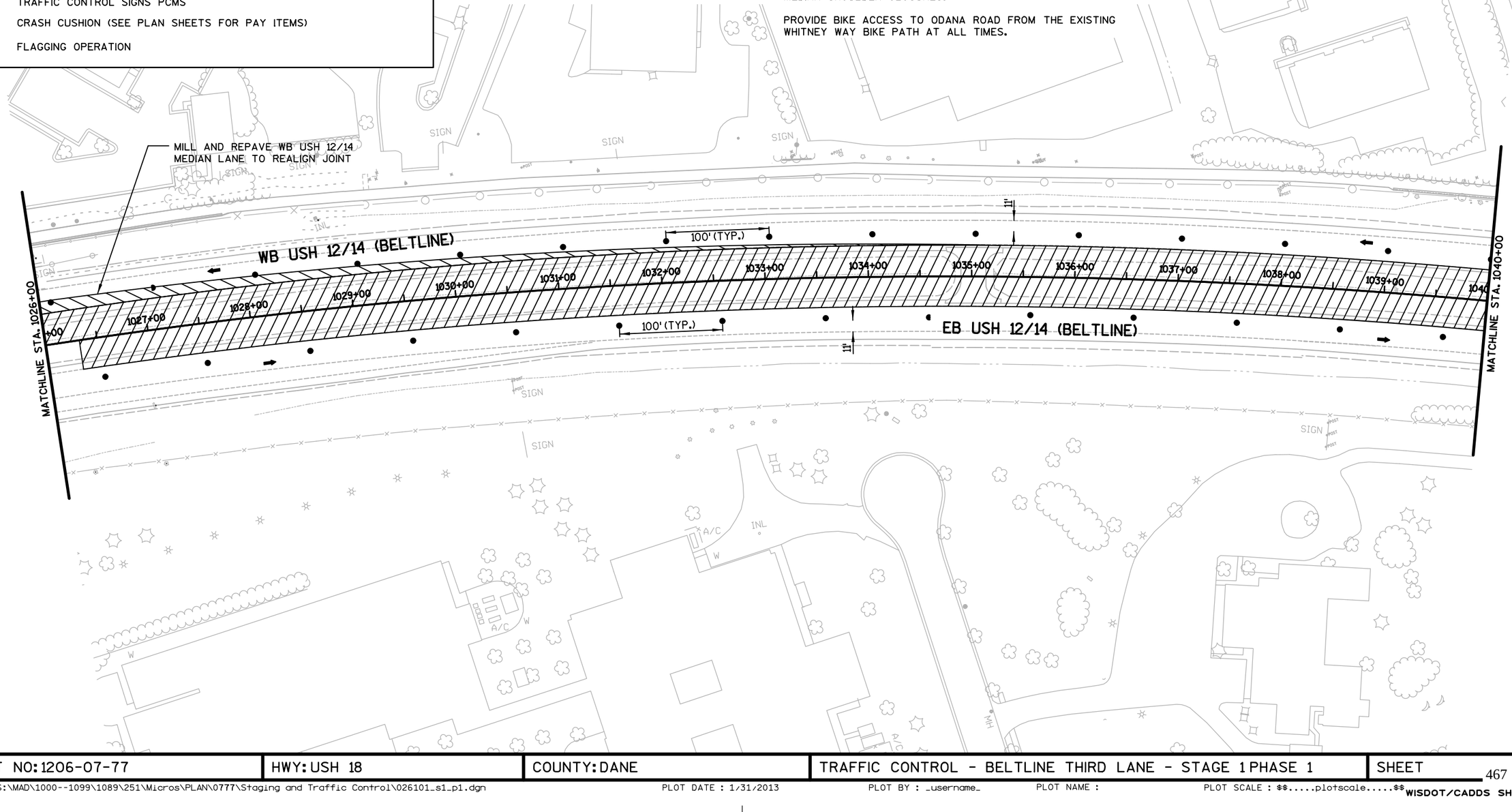
INSTALL DMS BASE IN MEDIAN (SEE DMS-13-31).

TRAFFIC

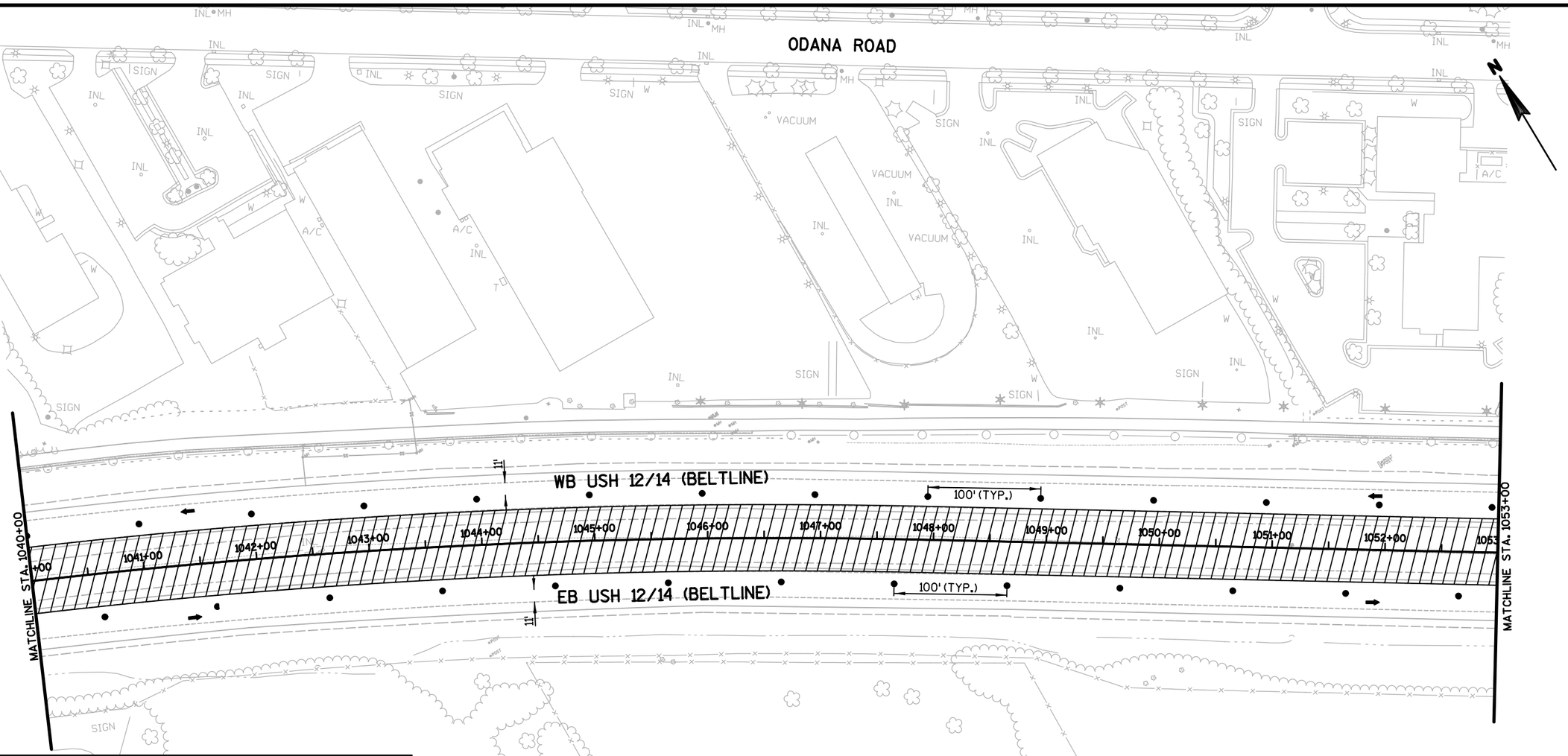
USH 12/14 ON EXISTING PAVEMENT (11 FT LANES).

NIGHTTIME MEDIAN LANE CLOSURES AND DAYTIME MEDIAN SHOULDER CLOSURES.

PROVIDE BIKE ACCESS TO ODANA ROAD FROM THE EXISTING WHITNEY WAY BIKE PATH AT ALL TIMES.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 1	SHEET 467	E



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT WB USH 12/14 THIRD LANE AND EB USH 12/14 SHOULDER DURING NIGHTTIME CLOSURE.

MILL AND REPAVE WB USH 12/14 MEDIAN LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTRUCT WHITNEY WAY BIKE PATH.

INSTALL MEDIAN GUARDRAIL DURING NIGHTTIME CLOSURE.

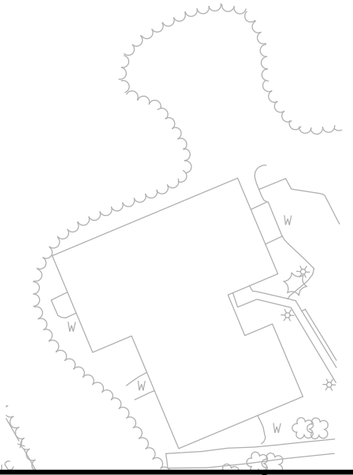
INSTALL DMS BASE IN MEDIAN (SEE DMS-13-31).

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT (11 FT LANES).

NIGHTTIME MEDIAN LANE CLOSURES AND DAYTIME MEDIAN SHOULDER CLOSURES.

PROVIDE BIKE ACCESS TO ODANA ROAD FROM THE EXISTING WHITNEY WAY BIKE PATH AT ALL TIMES.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 1	SHEET 468	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT WB USH 12/14 THIRD LANE AND EB USH 12/14 SHOULDER DURING NIGHTTIME CLOSURE.

MILL AND REPAVE WB USH 12/14 MEDIAN LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTRUCT WHITNEY WAY BIKE PATH.

INSTALL MEDIAN GUARDRAIL DURING NIGHTTIME CLOSURE.

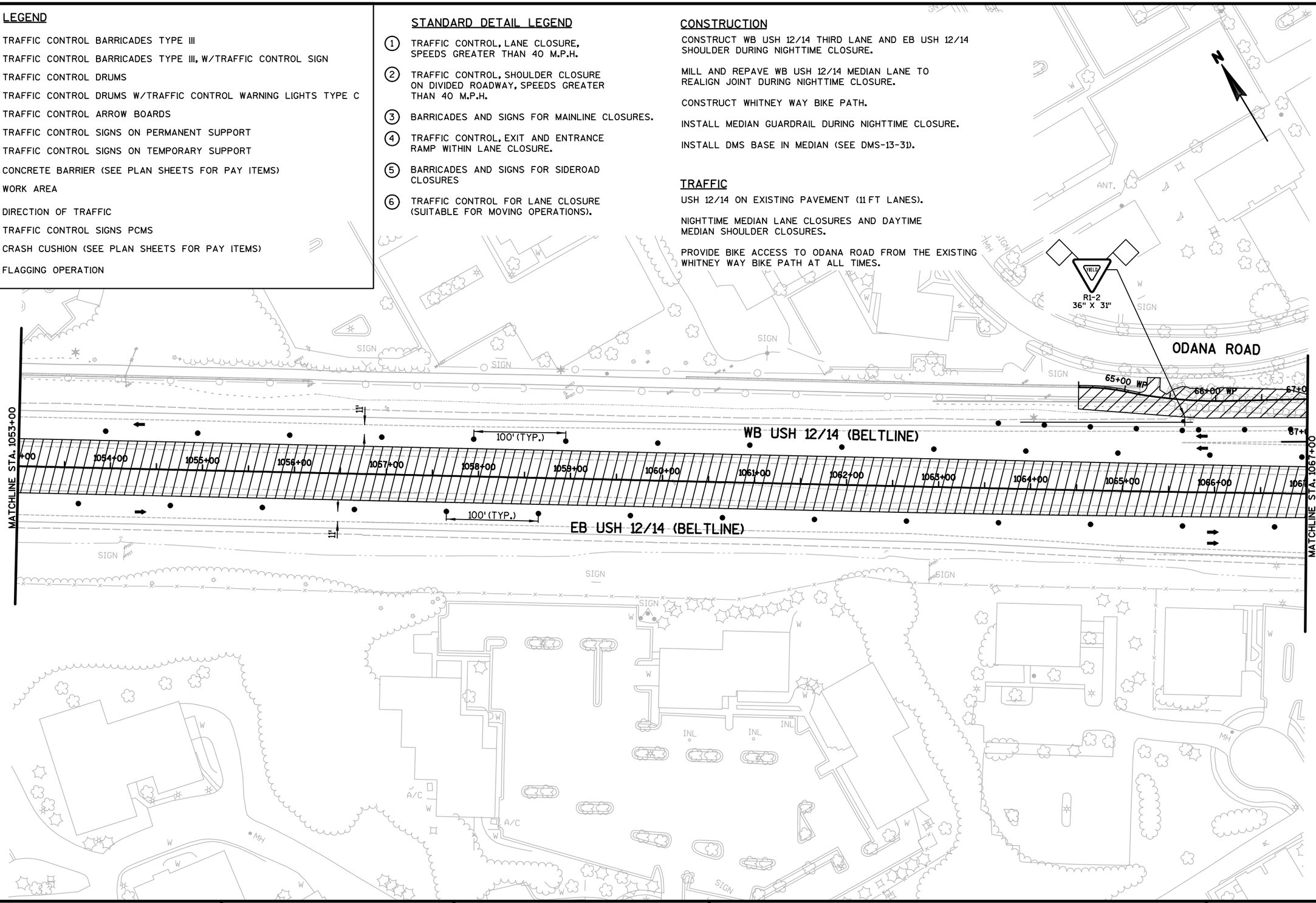
INSTALL DMS BASE IN MEDIAN (SEE DMS-13-31).

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT (11 FT LANES).

NIGHTTIME MEDIAN LANE CLOSURES AND DAYTIME MEDIAN SHOULDER CLOSURES.

PROVIDE BIKE ACCESS TO ODANA ROAD FROM THE EXISTING WHITNEY WAY BIKE PATH AT ALL TIMES.



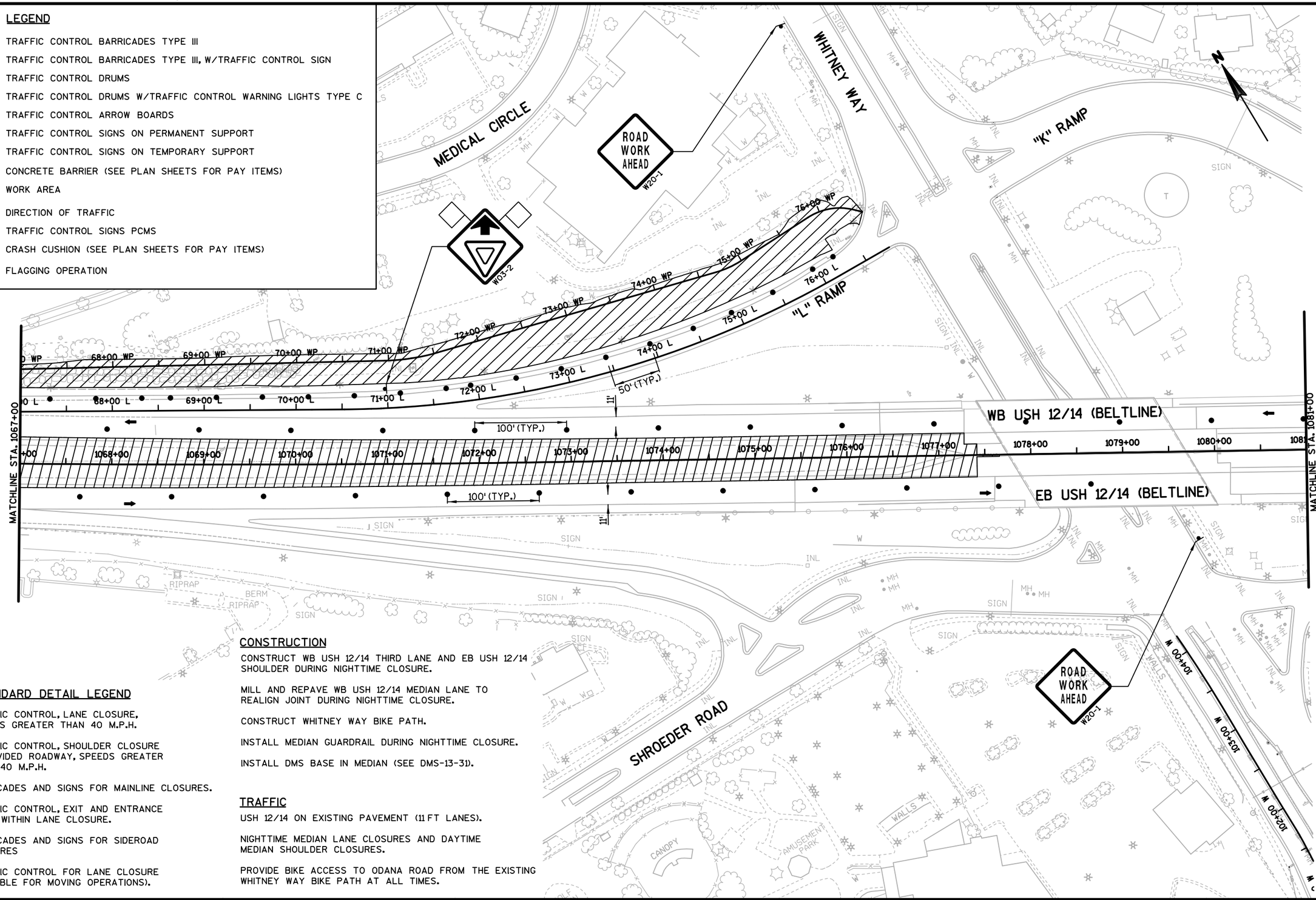
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 1	SHEET 469	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT WB USH 12/14 THIRD LANE AND EB USH 12/14 SHOULDER DURING NIGHTTIME CLOSURE.

MILL AND REPAVE WB USH 12/14 MEDIAN LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTRUCT WHITNEY WAY BIKE PATH.

INSTALL MEDIAN GUARDRAIL DURING NIGHTTIME CLOSURE.

INSTALL DMS BASE IN MEDIAN (SEE DMS-13-31).

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT (11 FT LANES).

NIGHTTIME MEDIAN LANE CLOSURES AND DAYTIME MEDIAN SHOULDER CLOSURES.

PROVIDE BIKE ACCESS TO ODANA ROAD FROM THE EXISTING WHITNEY WAY BIKE PATH AT ALL TIMES.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 1	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026104_s1_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT WB USH 12/14 THIRD LANE AND EB USH 12/14 SHOULDER DURING NIGHTTIME CLOSURE.

MILL AND REPAVE WB USH 12/14 MEDIAN LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTRUCT WHITNEY WAY BIKE PATH.

INSTALL MEDIAN GUARDRAIL DURING NIGHTTIME CLOSURE.

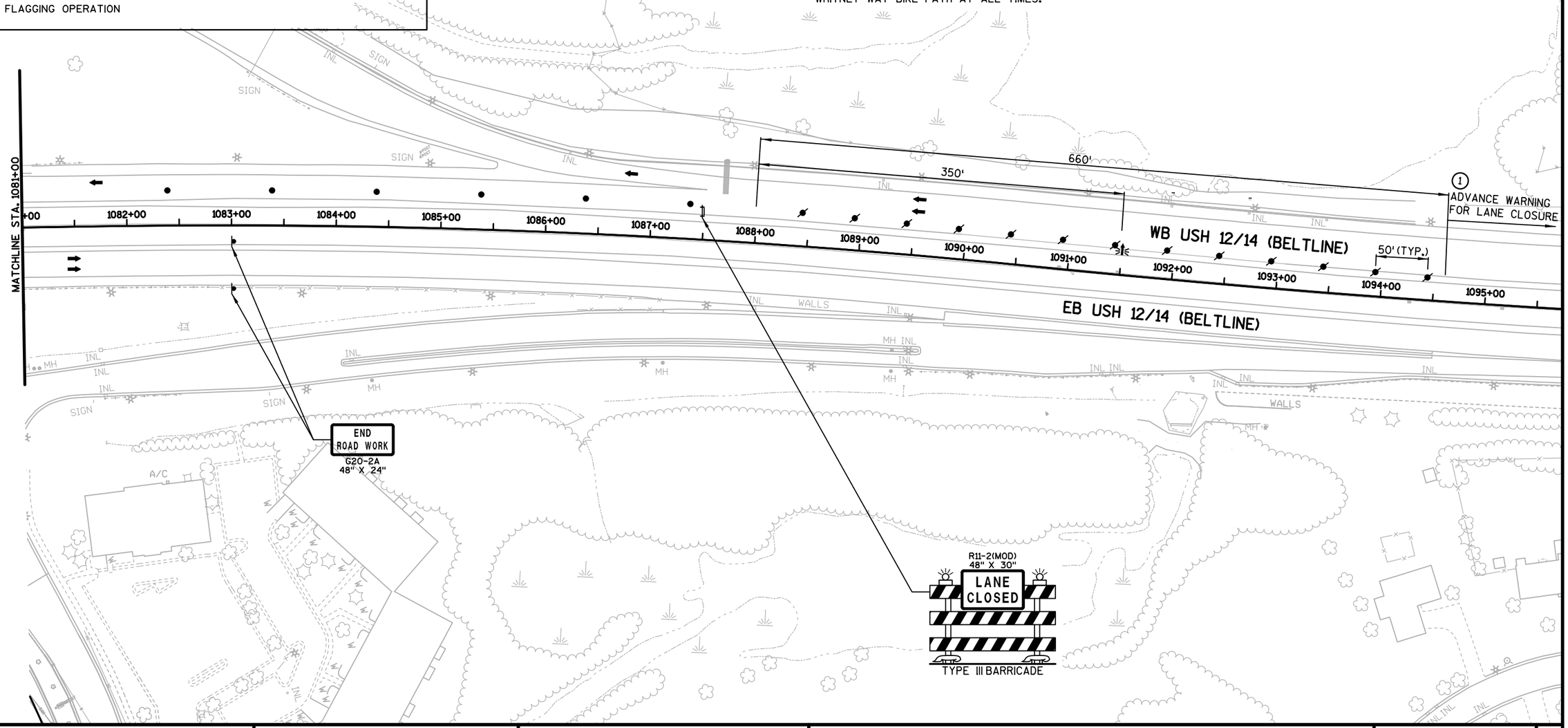
INSTALL DMS BASE IN MEDIAN (SEE DMS-13-31).

TRAFFIC

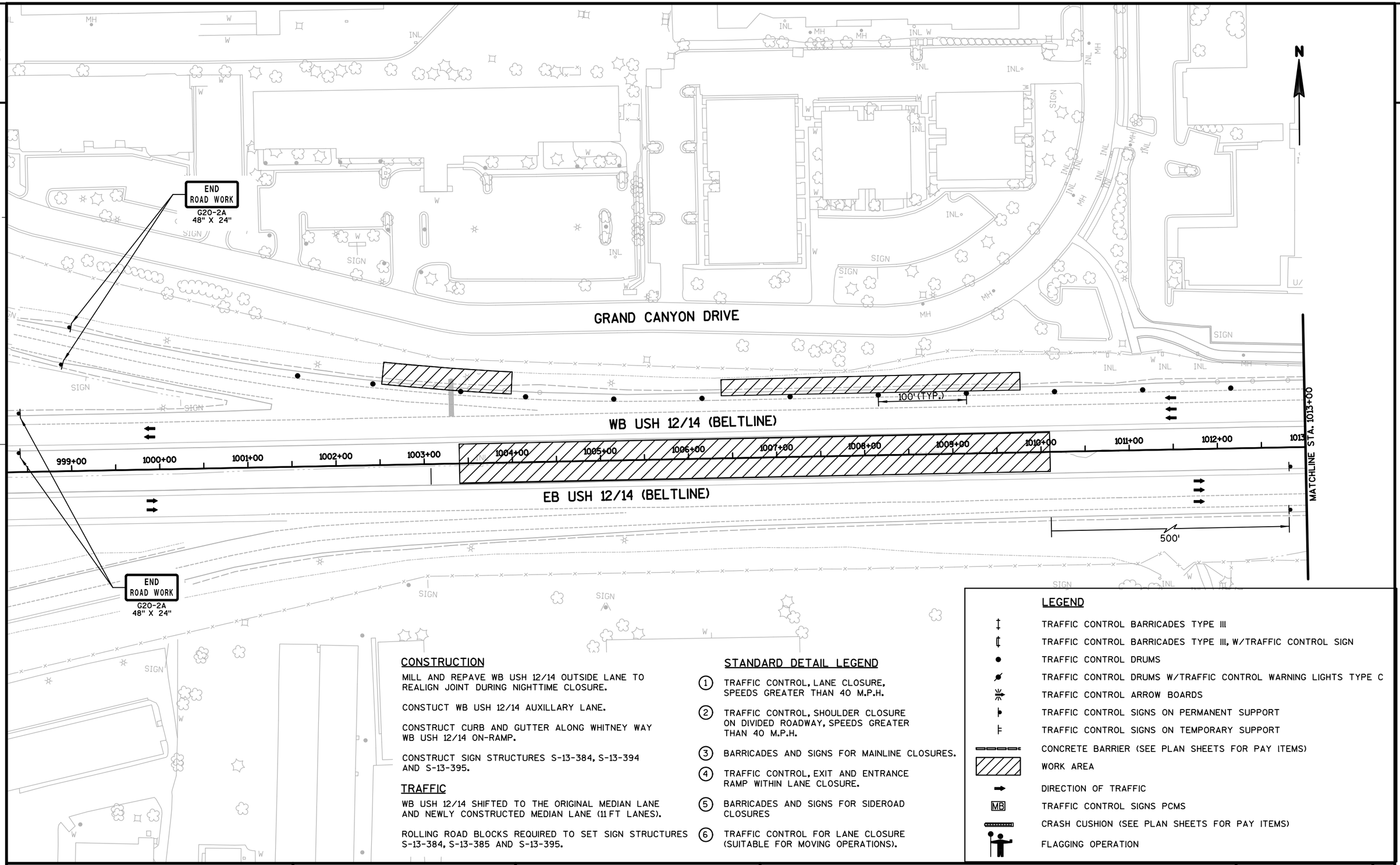
USH 12/14 ON EXISTING PAVEMENT (11 FT LANES).

NIGHTTIME MEDIAN LANE CLOSURES AND DAYTIME MEDIAN SHOULDER CLOSURES.

PROVIDE BIKE ACCESS TO ODANA ROAD FROM THE EXISTING WHITNEY WAY BIKE PATH AT ALL TIMES.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 1	SHEET 471	E



CONSTRUCTION

MILL AND REPAVE WB USH 12/14 OUTSIDE LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTUCT WB USH 12/14 AUXILLARY LANE.

CONSTRUCT CURB AND GUTTER ALONG WHITNEY WAY WB USH 12/14 ON-RAMP.

CONSTRUCT SIGN STRUCTURES S-13-384, S-13-394 AND S-13-395.

TRAFFIC

WB USH 12/14 SHIFTED TO THE ORIGINAL MEDIAN LANE AND NEWLY CONSTRUCTED MEDIAN LANE (11 FT LANES).

ROLLING ROAD BLOCKS REQUIRED TO SET SIGN STRUCTURES S-13-384, S-13-385 AND S-13-395.

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 2	SHEET 472	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

MILL AND REPAVE WB USH 12/14 OUTSIDE LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTUCT WB USH 12/14 AUXILLARY LANE.

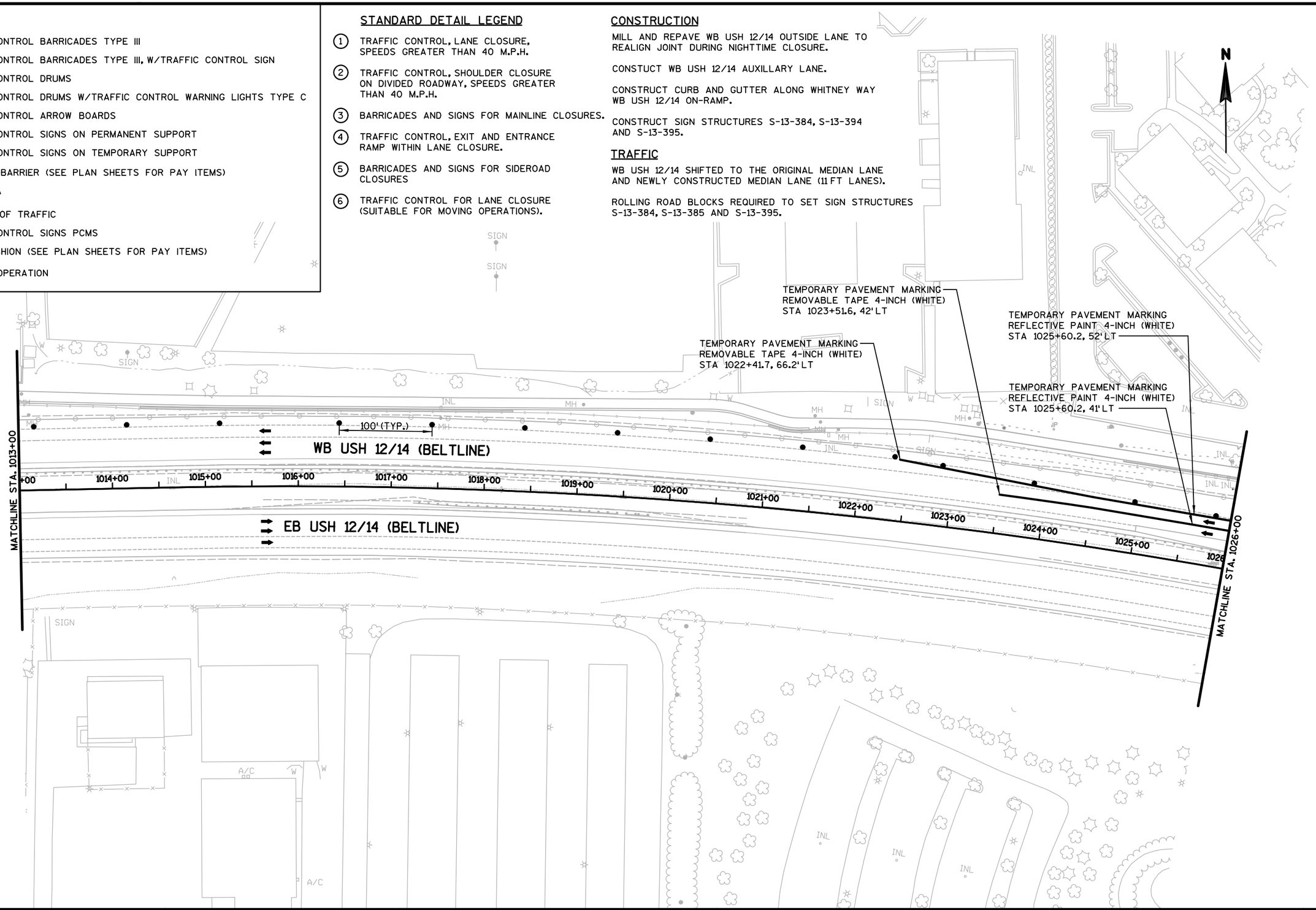
CONSTRUCT CURB AND GUTTER ALONG WHITNEY WAY WB USH 12/14 ON-RAMP.

CONSTRUCT SIGN STRUCTURES S-13-384, S-13-394 AND S-13-395.

TRAFFIC

WB USH 12/14 SHIFTED TO THE ORIGINAL MEDIAN LANE AND NEWLY CONSTRUCTED MEDIAN LANE (11 FT LANES).

ROLLING ROAD BLOCKS REQUIRED TO SET SIGN STRUCTURES S-13-384, S-13-385 AND S-13-395.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 2	SHEET 473	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

MILL AND REPAVE WB USH 12/14 OUTSIDE LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTUCT WB USH 12/14 AUXILLARY LANE.

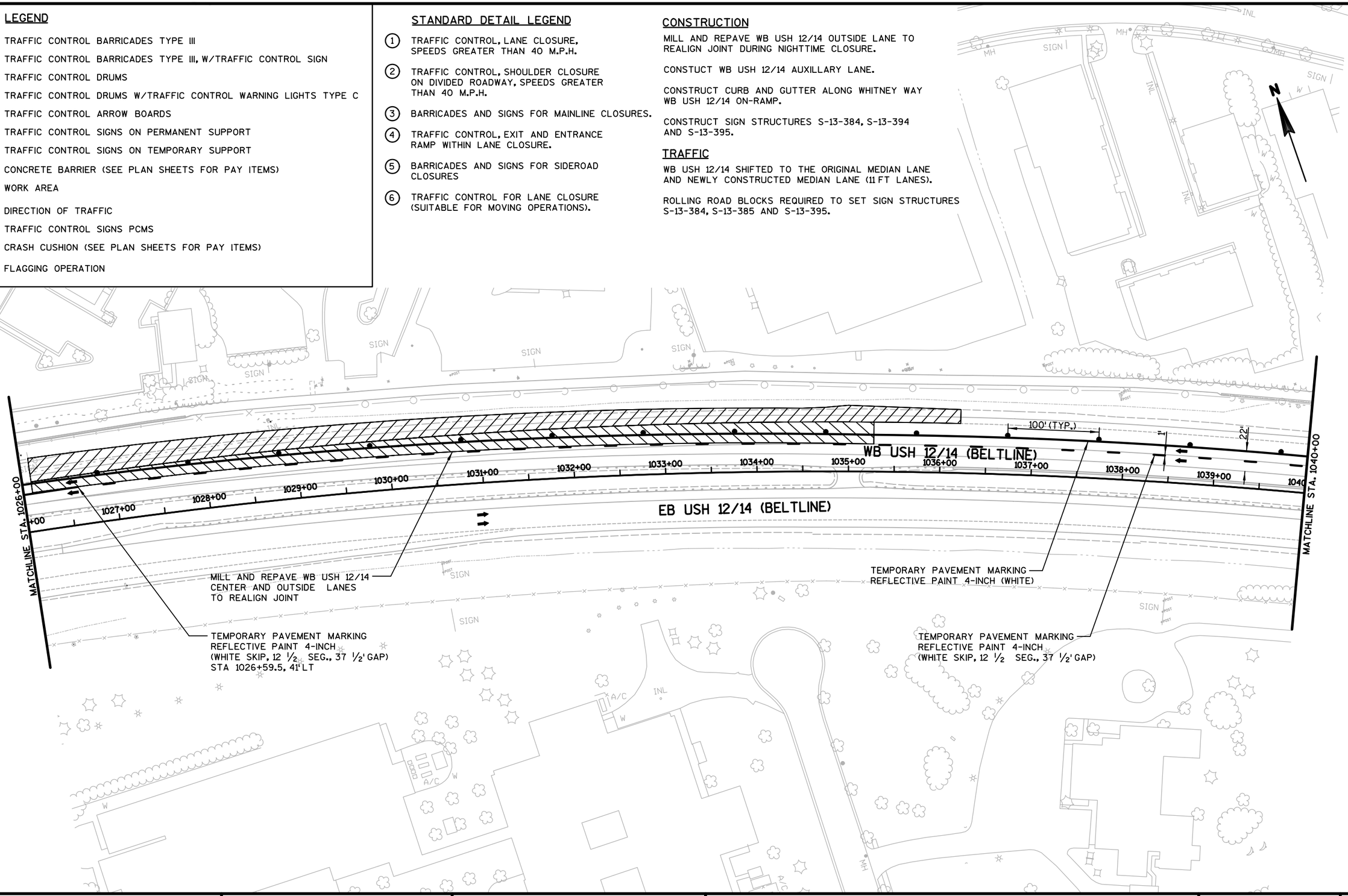
CONSTRUCT CURB AND GUTTER ALONG WHITNEY WAY WB USH 12/14 ON-RAMP.

CONSTRUCT SIGN STRUCTURES S-13-384, S-13-394 AND S-13-395.

TRAFFIC

WB USH 12/14 SHIFTED TO THE ORIGINAL MEDIAN LANE AND NEWLY CONSTRUCTED MEDIAN LANE (11 FT LANES).

ROLLING ROAD BLOCKS REQUIRED TO SET SIGN STRUCTURES S-13-384, S-13-385 AND S-13-395.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 2	SHEET 474	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

MILL AND REPAVE WB USH 12/14 OUTSIDE LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTUCT WB USH 12/14 AUXILLARY LANE.

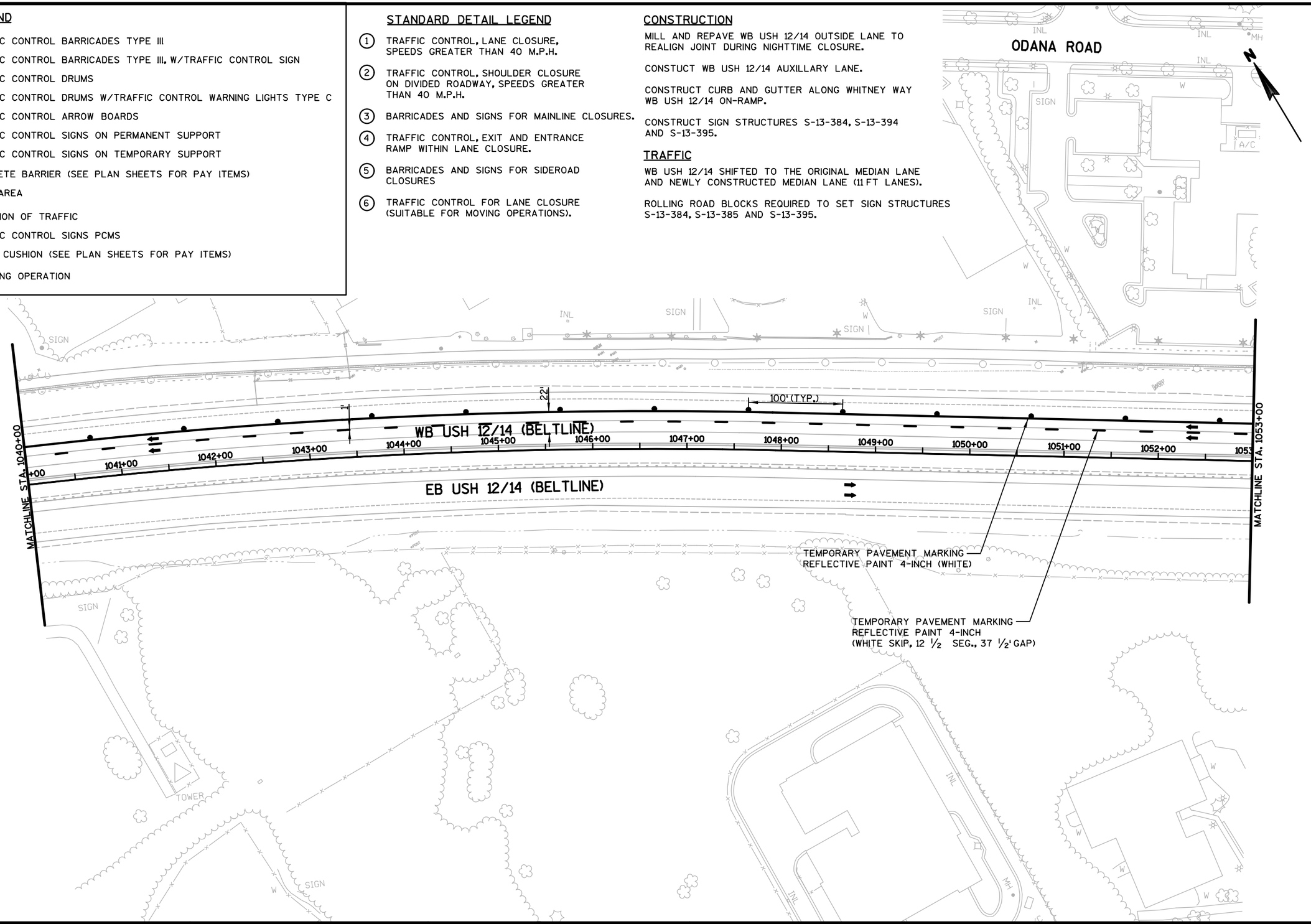
CONSTRUCT CURB AND GUTTER ALONG WHITNEY WAY WB USH 12/14 ON-RAMP.

CONSTRUCT SIGN STRUCTURES S-13-384, S-13-394 AND S-13-395.

TRAFFIC

WB USH 12/14 SHIFTED TO THE ORIGINAL MEDIAN LANE AND NEWLY CONSTRUCTED MEDIAN LANE (11 FT LANES).

ROLLING ROAD BLOCKS REQUIRED TO SET SIGN STRUCTURES S-13-384, S-13-385 AND S-13-395.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 2	SHEET 475	E

2

ODANA ROAD

MEDICAL CIRCLE

325' TAPER

+25

+50

65+00 WP

66+00 WP

67+00

MATCHLINE STA. 1053+00

MATCHLINE STA. 1067+00

1053+00

1054+00

1055+00

1056+00

1057+00

1058+00

1059+00

1060+00

1061+00

1062+00

1063+00

1064+00

1065+00

1066+00

100' (TYP.)

50' (TYP.)

22'

33'

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

TEMPORARY PAVEMENT MARKING
REFLECTIVE PAINT 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REFLECTIVE PAINT 4-INCH
(WHITE SKIP, 12 1/2 SEG., 37 1/2' GAP)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
STA 1059+39, 39'LT

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)
STA 1062+51, 50'LT

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH
(WHITE SKIPS, 3' SEG., 9' GAP)
STA 1064+90.6, 39'LT

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

MILL AND REPAVE WB USH 12/14 OUTSIDE LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTUCT WB USH 12/14 AUXILLARY LANE.

CONSTRUCT CURB AND GUTTER ALONG WHITNEY WAY WB USH 12/14 ON-RAMP.

CONSTRUCT SIGN STRUCTURES S-13-384, S-13-394 AND S-13-395.

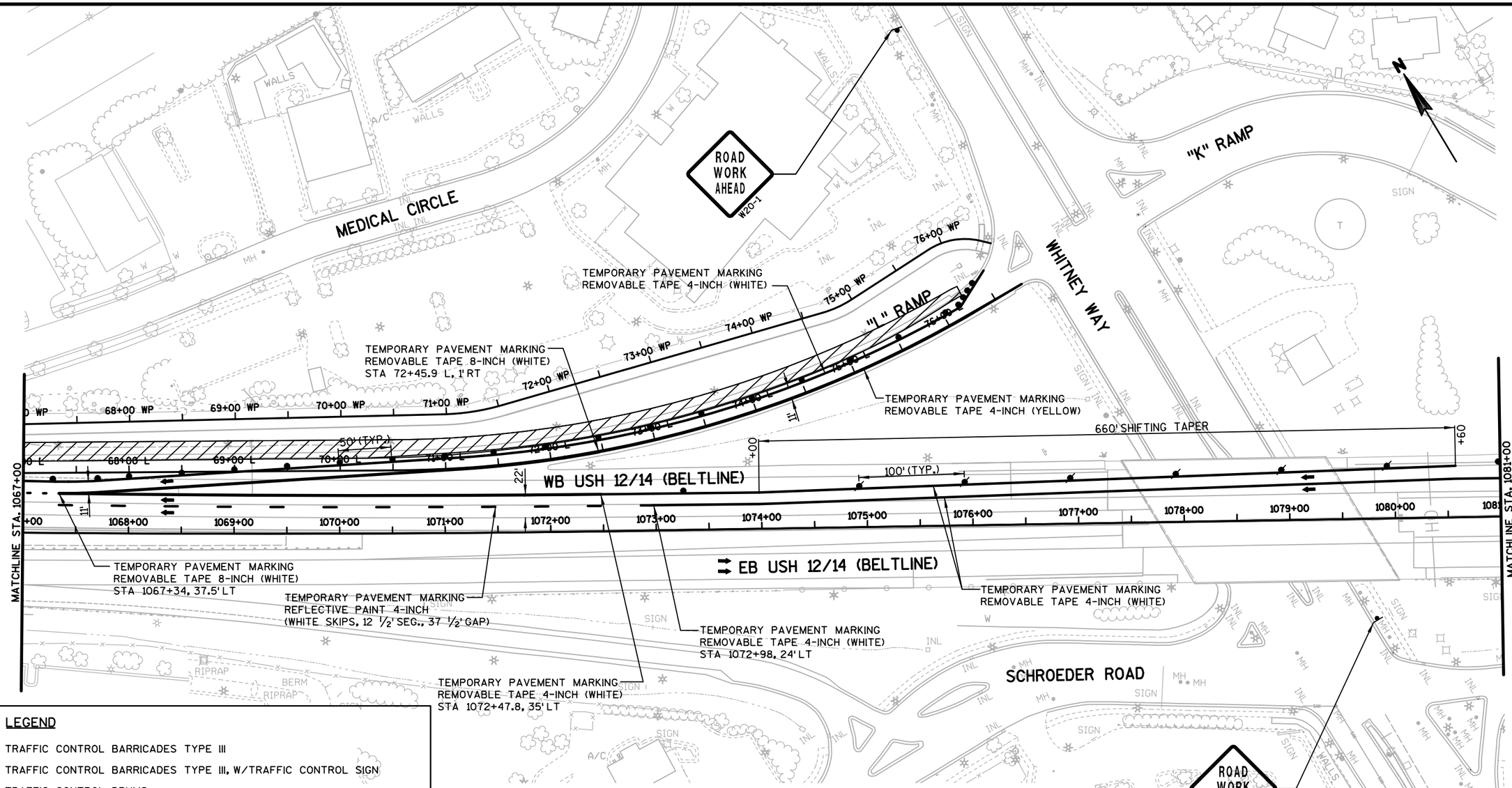
TRAFFIC

WB USH 12/14 SHIFTED TO THE ORIGINAL MEDIAN LANE AND NEWLY CONSTRUCTED MEDIAN LANE (11 FT LANES).

ROLLING ROAD BLOCKS REQUIRED TO SET SIGN STRUCTURES S-13-384, S-13-385 AND S-13-395.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 2	SHEET 476	E

2



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

MILL AND REPAVE WB USH 12/14 OUTSIDE LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTUCT WB USH 12/14 AUXILLARY LANE.

CONSTRUCT CURB AND GUTTER ALONG WHITNEY WAY WB USH 12/14 ON-RAMP.

CONSTRUCT SIGN STRUCTURES S-13-384, S-13-394 AND S-13-395.

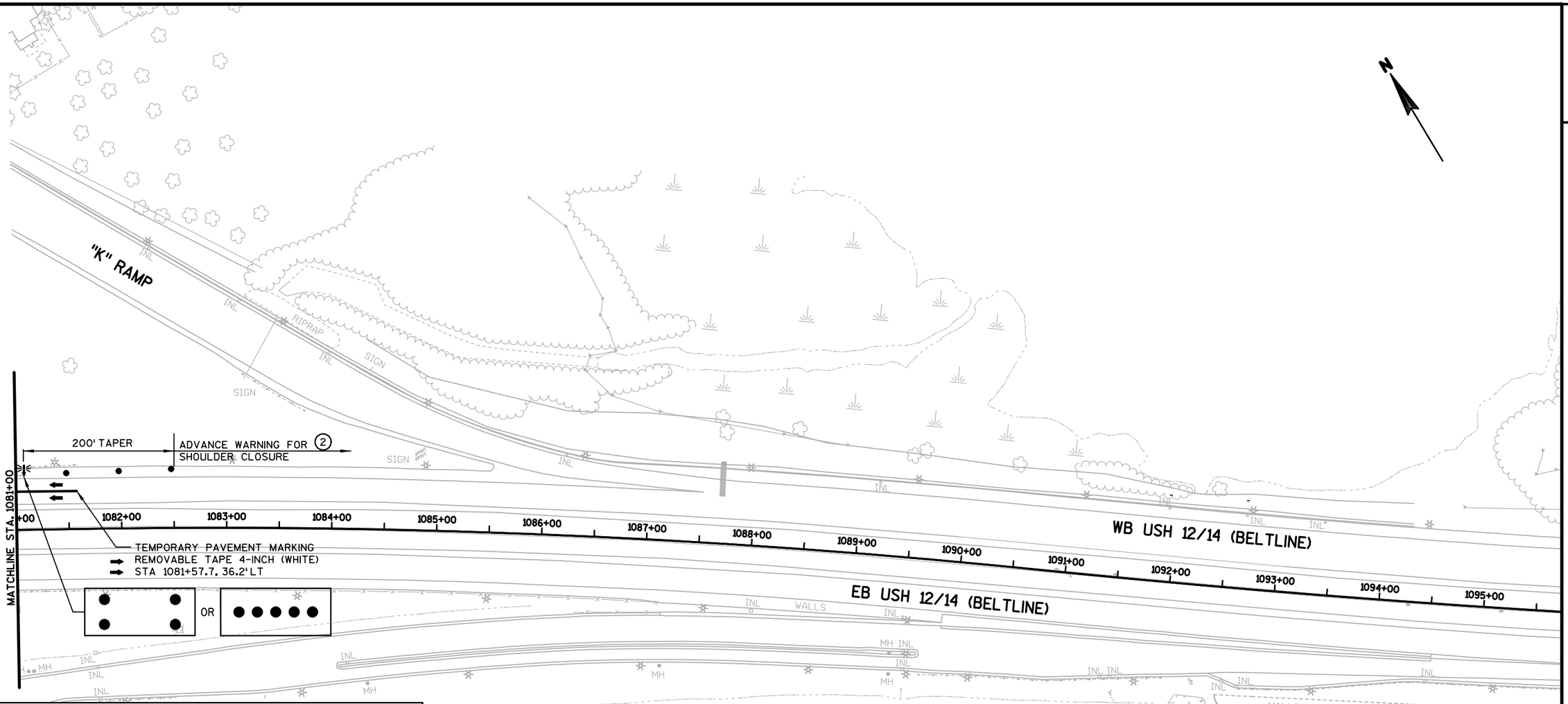
TRAFFIC

WB USH 12/14 SHIFTED TO THE ORIGINAL MEDIAN LANE AND NEWLY CONSTRUCTED MEDIAN LANE (11 FT LANES).

ROLLING ROAD BLOCKS REQUIRED TO SET SIGN STRUCTURES S-13-384, S-13-385 AND S-13-395.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 2	SHEET 477	E

2



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

MILL AND REPAVE WB USH 12/14 OUTSIDE LANE TO REALIGN JOINT DURING NIGHTTIME CLOSURE.

CONSTUCT WB USH 12/14 AUXILLARY LANE.

CONSTRUCT CURB AND GUTTER ALONG WHITNEY WAY WB USH 12/14 ON-RAMP.

CONSTRUCT SIGN STRUCTURES S-13-384, S-13-394 AND S-13-395.

TRAFFIC

WB USH 12/14 SHIFTED TO THE ORIGINAL MEDIAN LANE AND NEWLY CONSTRUCTED MEDIAN LANE (11 FT LANES).

ROLLING ROAD BLOCKS REQUIRED TO SET SIGN STRUCTURES S-13-384, S-13-385 AND S-13-395.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE THIRD LANE - STAGE 1 PHASE 2	SHEET 478	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT NOISE WALL N-13-4 DURING OFF-PEAK CLOSURE.

TRAFFIC

WB USH 12/18 WHITNEY WAY OFF-RAMP ON EXISTING PAVEMENT.

R11-2(MOD) 48" X 30" LANE CLOSED
TYPE III BARRICADE

R11-2(MOD) 48" X 30" LANE CLOSED
TYPE III BARRICADE

"K" RAMP
"L" RAMP
WHITNEY WAY
WB USH 12/14 (BELTLINE)
EB USH 12/14 (BELTLINE)
SCHROEDER ROAD
50' (TYP.)
36'
77+00 K
78+00 K
79+00 K
80+00 K
81+00 K
82+00 K
83+00 K
84+00 K
85+00 K
86+00 K
MATCHLINE STA. 87+00 K
1073+00
1074+00
1075+00
1076+00
1077+00
1078+00
1079+00
1080+00
1081+00
1082+00
1083+00
1084+00
1085+00
1086+00
SIGN
INL
MH
RIPRAP
WALLS
A/C

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - NOISE WALL N-13-4 - STAGE 1 PHASE 1	SHEET 479	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026120_s1_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

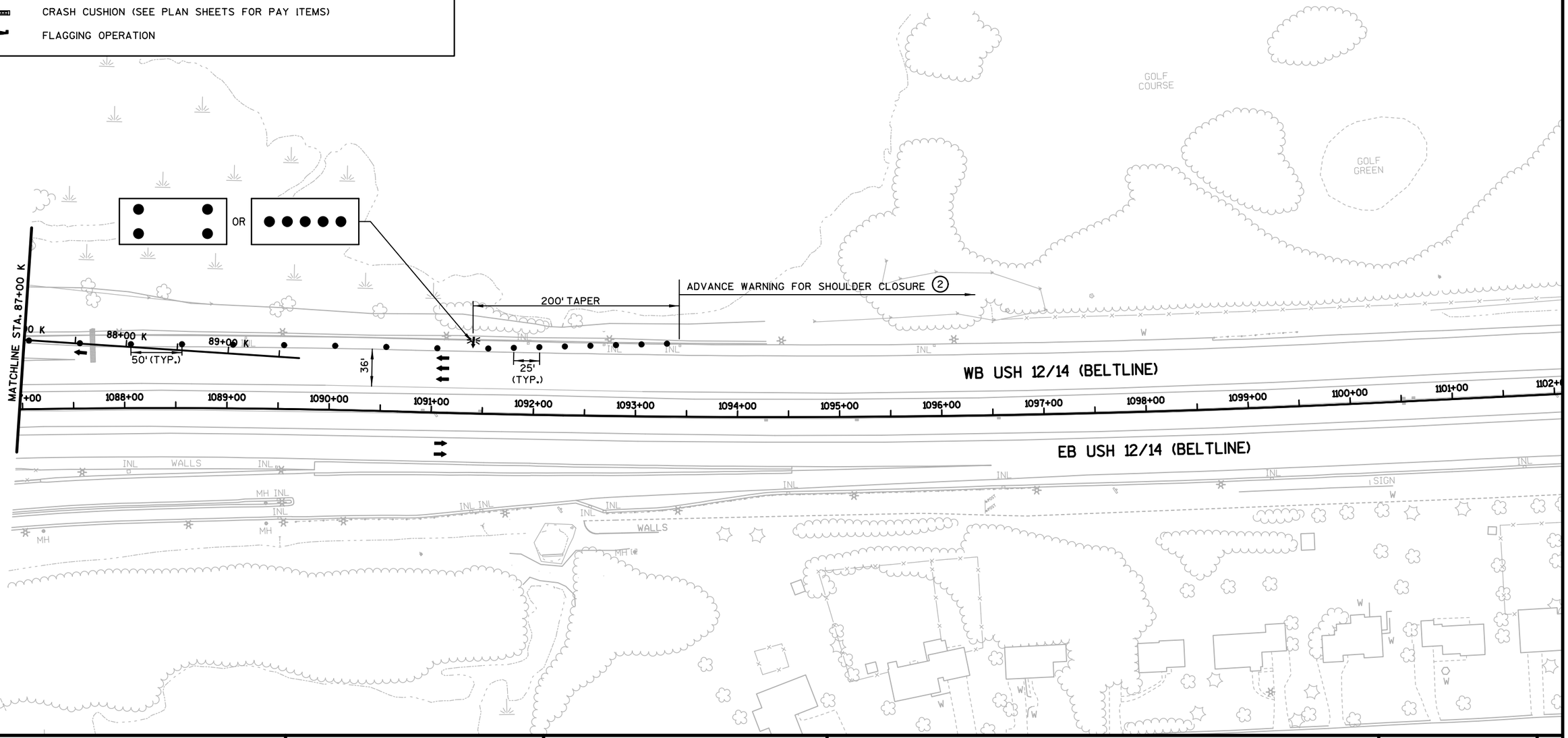
1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

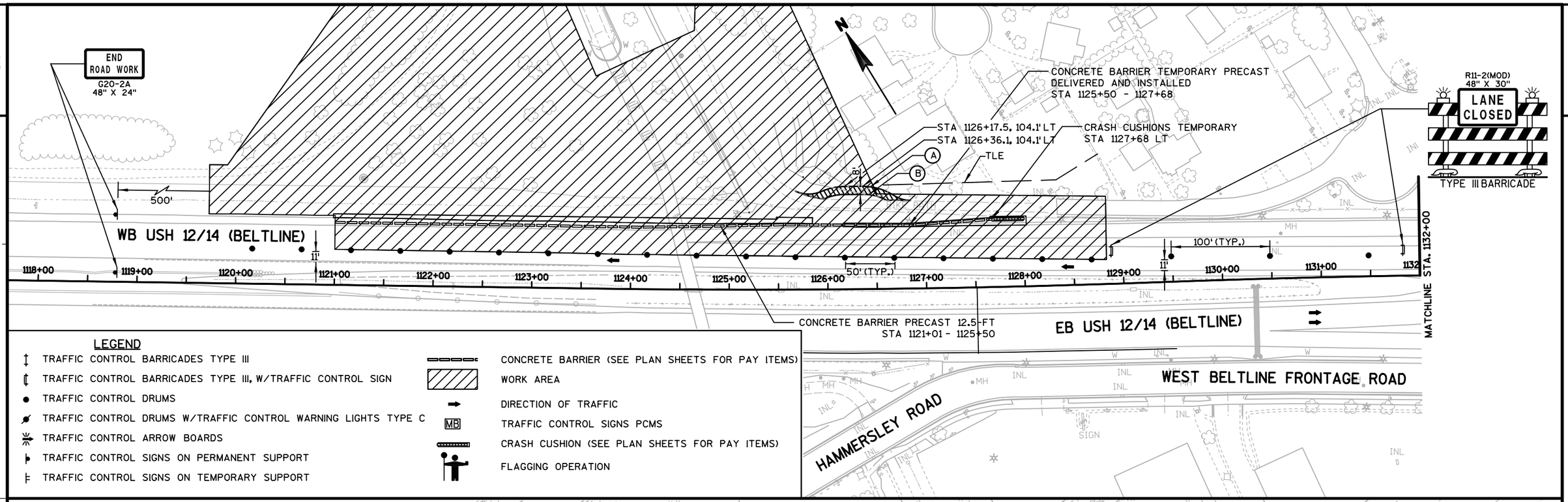
CONSTRUCT NOISE WALL N-13-4 DURING OFF-PEAK CLOSURE.

TRAFFIC

WB USH 12/18 WHITNEY WAY OFF-RAMP ON EXISTING PAVEMENT.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - NOISE WALL N-13-4 - STAGE 1 PHASE 1	SHEET 480	E



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

(1) TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.

(2) TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.

(3) BARRICADES AND SIGNS FOR MAINLINE CLOSURES.

(4) TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.

(5) BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

(6) TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT WET DETENSION BASIN B. SEE CONSTRUCTION DETAILS.

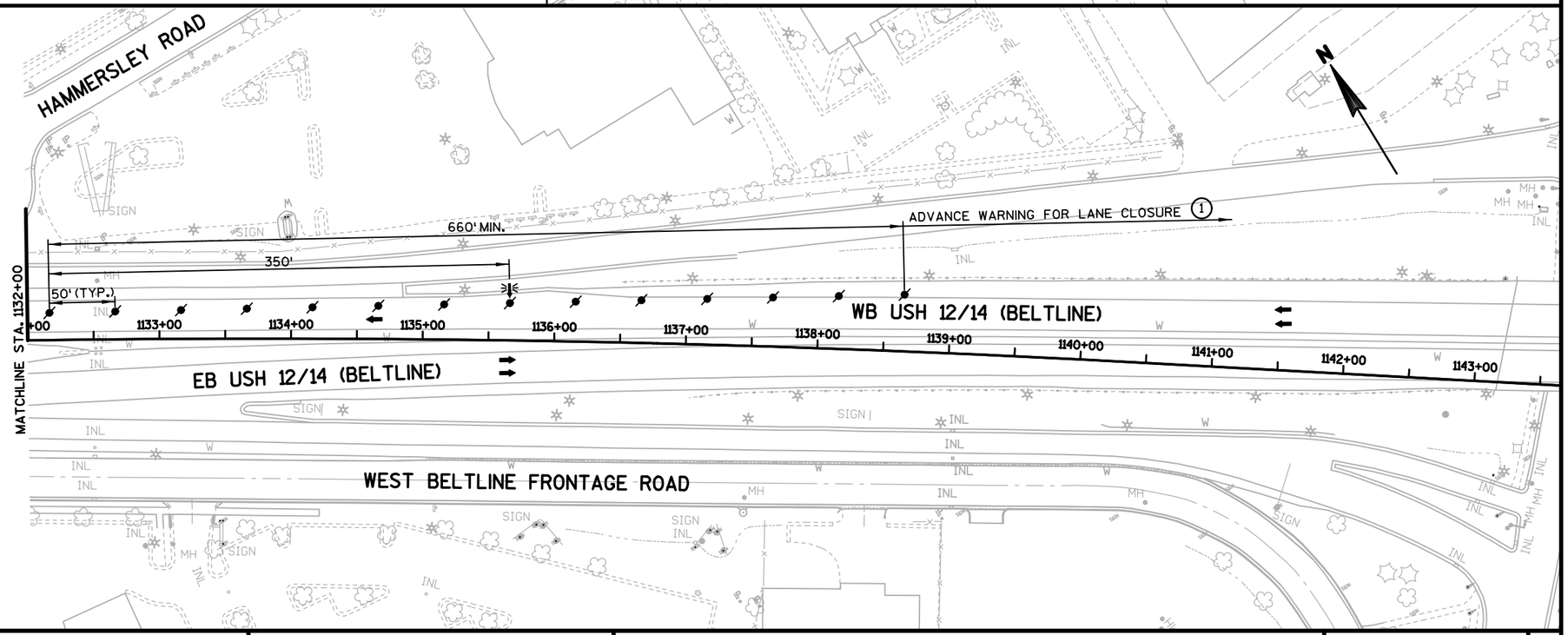
TRAFFIC

USH 12/14 ON EXISTING PAVEMENT.

WB USH 12/14 ON RAMP AT VERONA ROAD CLOSED.

(A) MAINTAIN TEMPORARY ACCESS TO BIKE PATH IN ACCORDANCE WITH BID ITEM TEMPORARY PEDESTRIAN/BICYCLE ACCESS

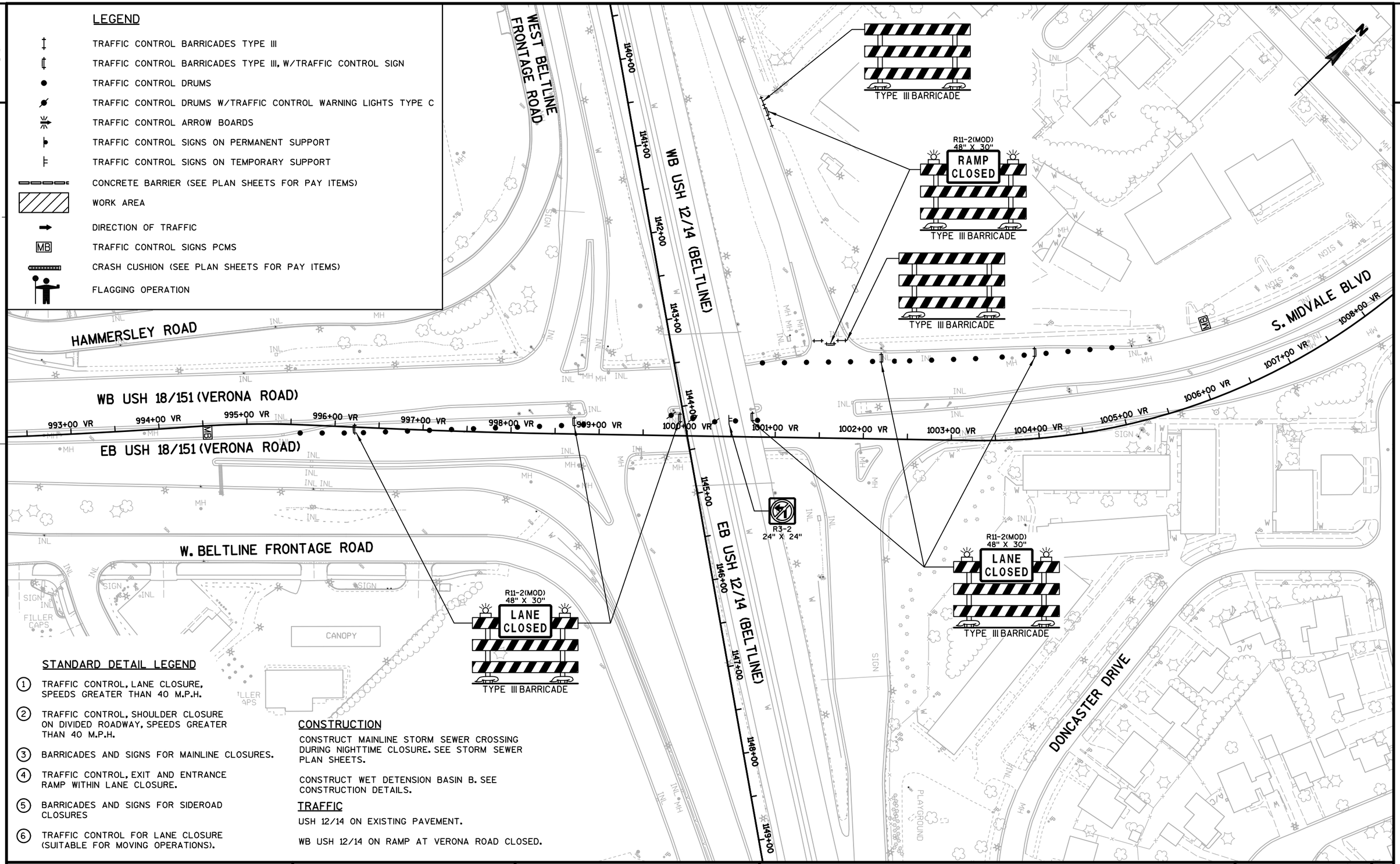
(B) SEE TRAFFIC CONTROL GENERAL NOTE *22



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL-USH 12/14 STORM SEWER XING-STAGE 1 PHASE 1	SHEET 481	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE. SEE STORM SEWER PLAN SHEETS.

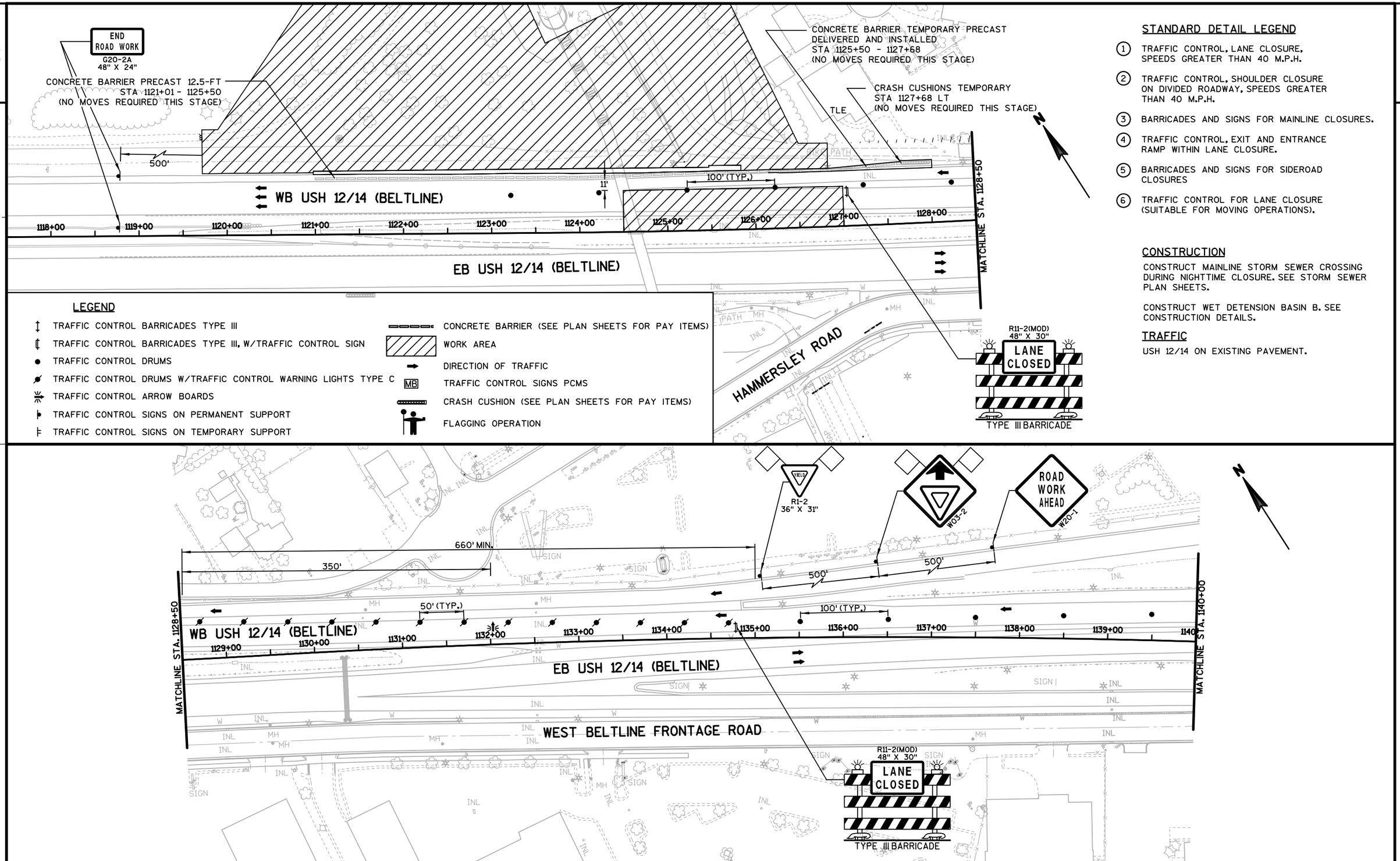
CONSTRUCT WET DETENSION BASIN B. SEE CONSTRUCTION DETAILS.

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT.

WB USH 12/14 ON RAMP AT VERONA ROAD CLOSED.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL-BELTLINE STORM SEWER XING-STAGE 1 PHASE 1	SHEET 482	E



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT WET DETENSION BASIN B. SEE CONSTRUCTION DETAILS.

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE STORM SEWER - STAGE 1 PHASE 2	SHEET 483	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

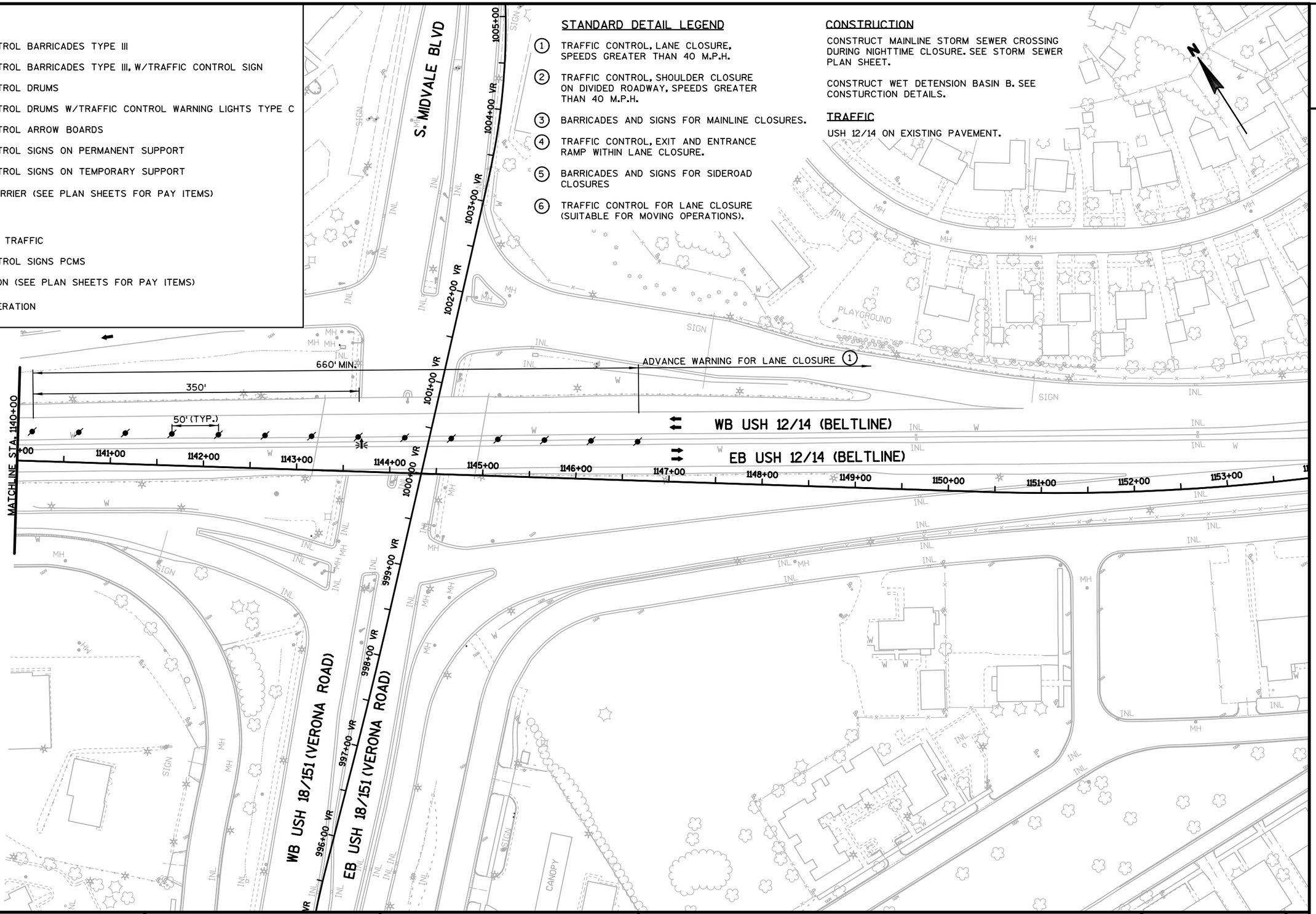
CONSTRUCTION

CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE. SEE STORM SEWER PLAN SHEET.

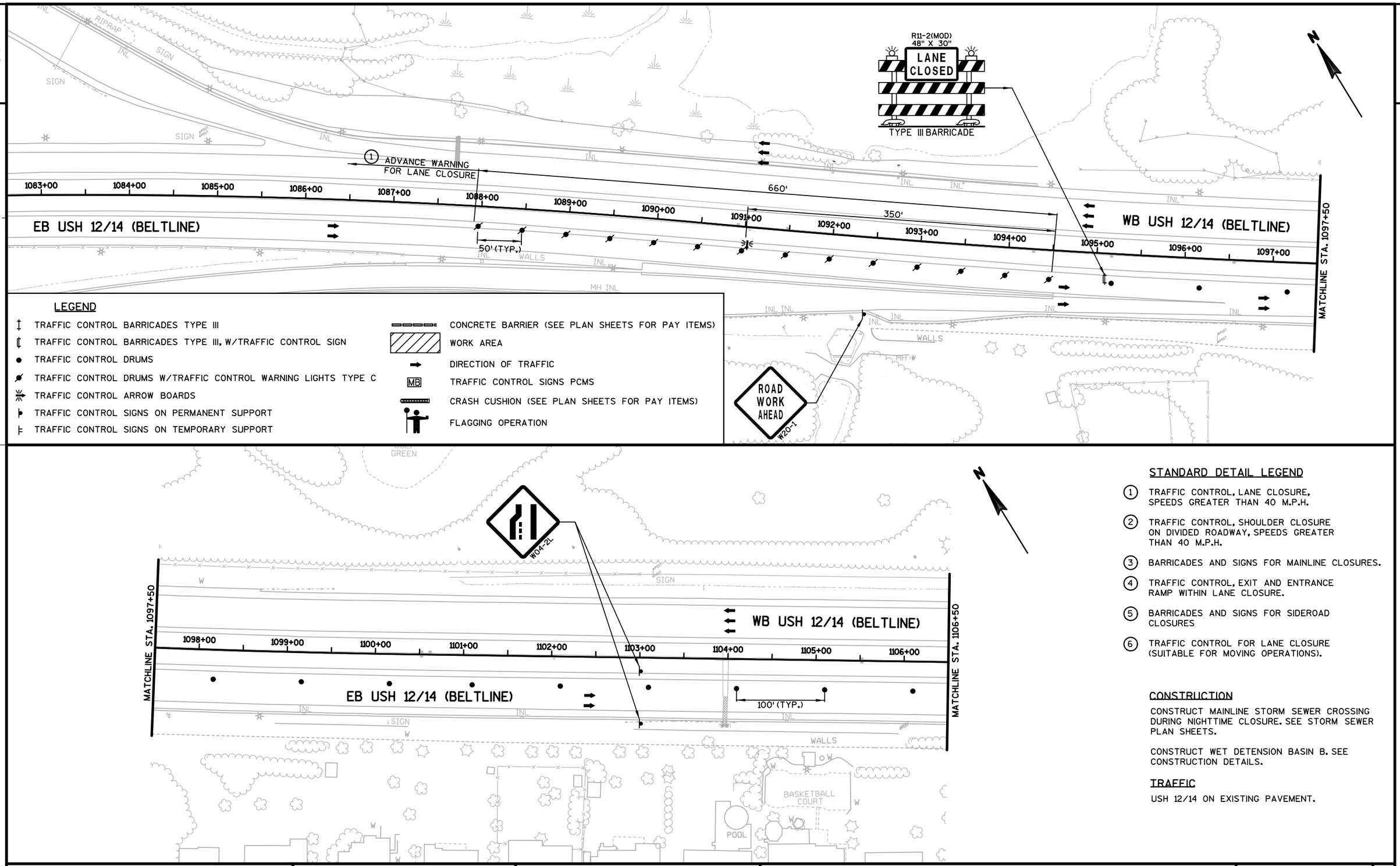
CONSTRUCT WET DETENSION BASIN B. SEE CONSTURCTION DETAILS.

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL-BELTLINE STORM SEWER XING-STAGE 1 PHASE 2	SHEET 484	E



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT WET DETENSION BASIN B. SEE CONSTRUCTION DETAILS.

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT.

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

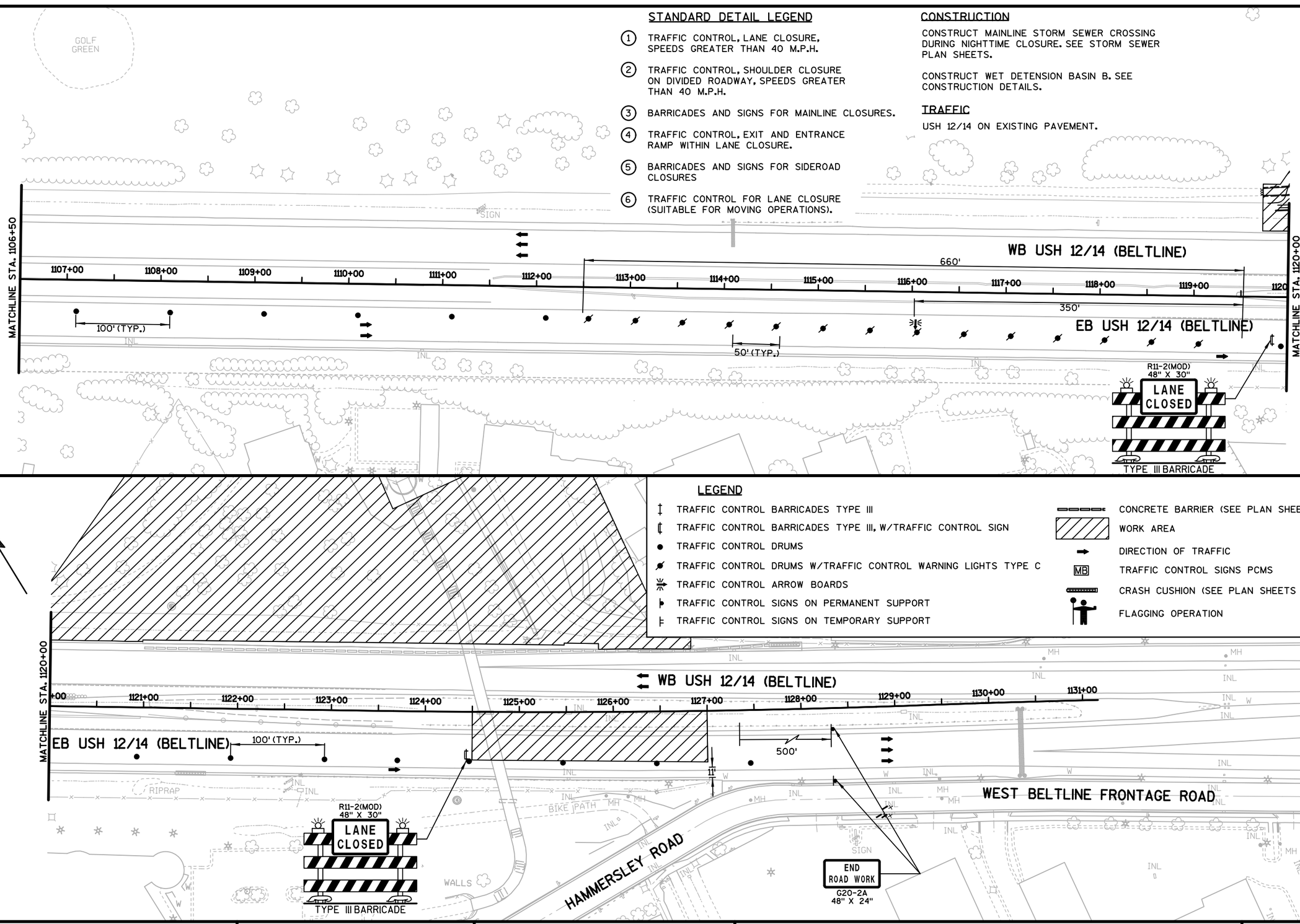
CONSTRUCTION

CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT WET DETENSION BASIN B. SEE CONSTRUCTION DETAILS.

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT.



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL-BELTLINE STORM SEWER XING-STAGE 1 PHASE 3	SHEET 486	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

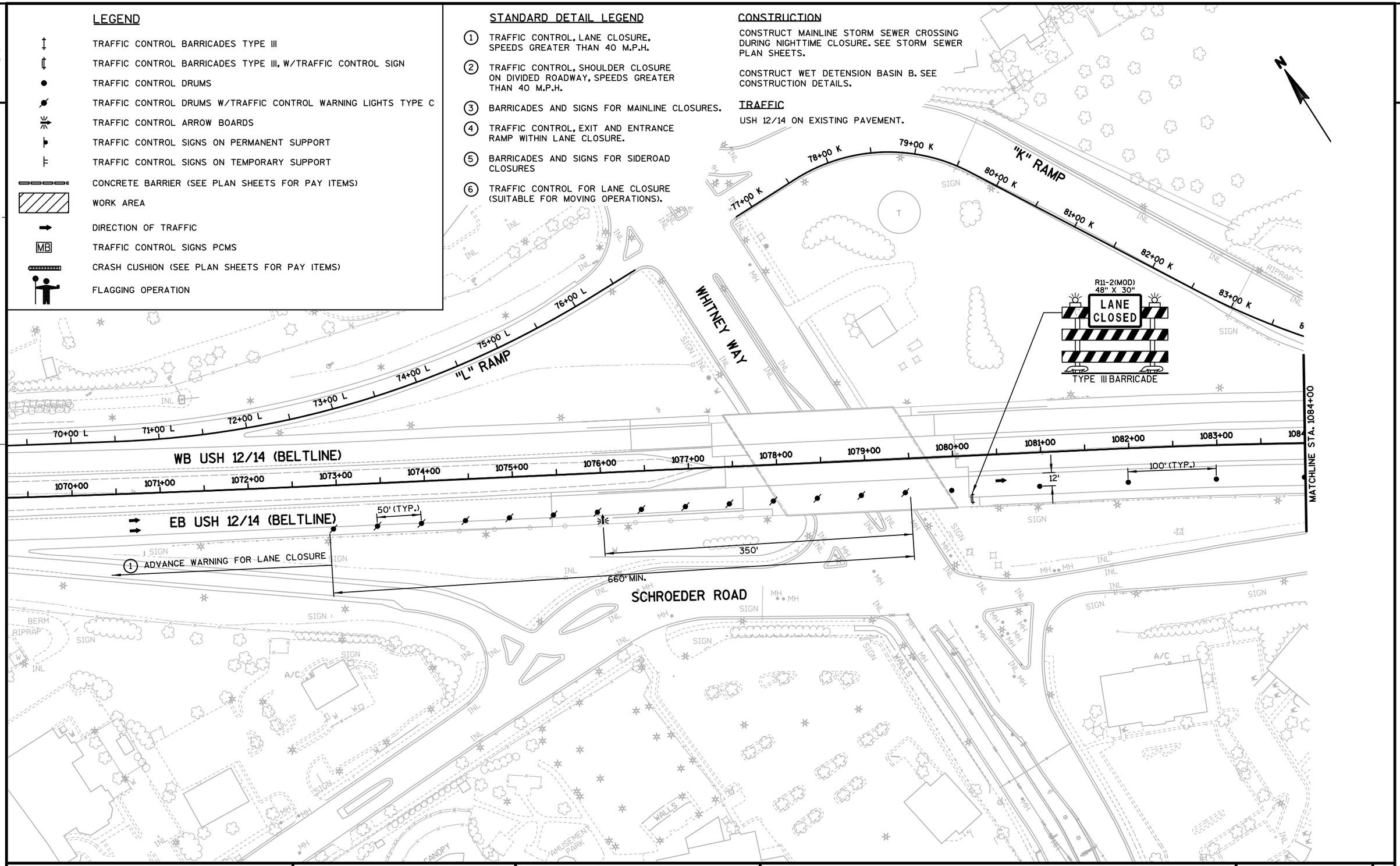
CONSTRUCTION

CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT WET DETENSION BASIN B. SEE CONSTRUCTION DETAILS.

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL-BELTLINE STORM SEWER XING-STAGE 1 PHASE 4	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026134_s1_p4.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

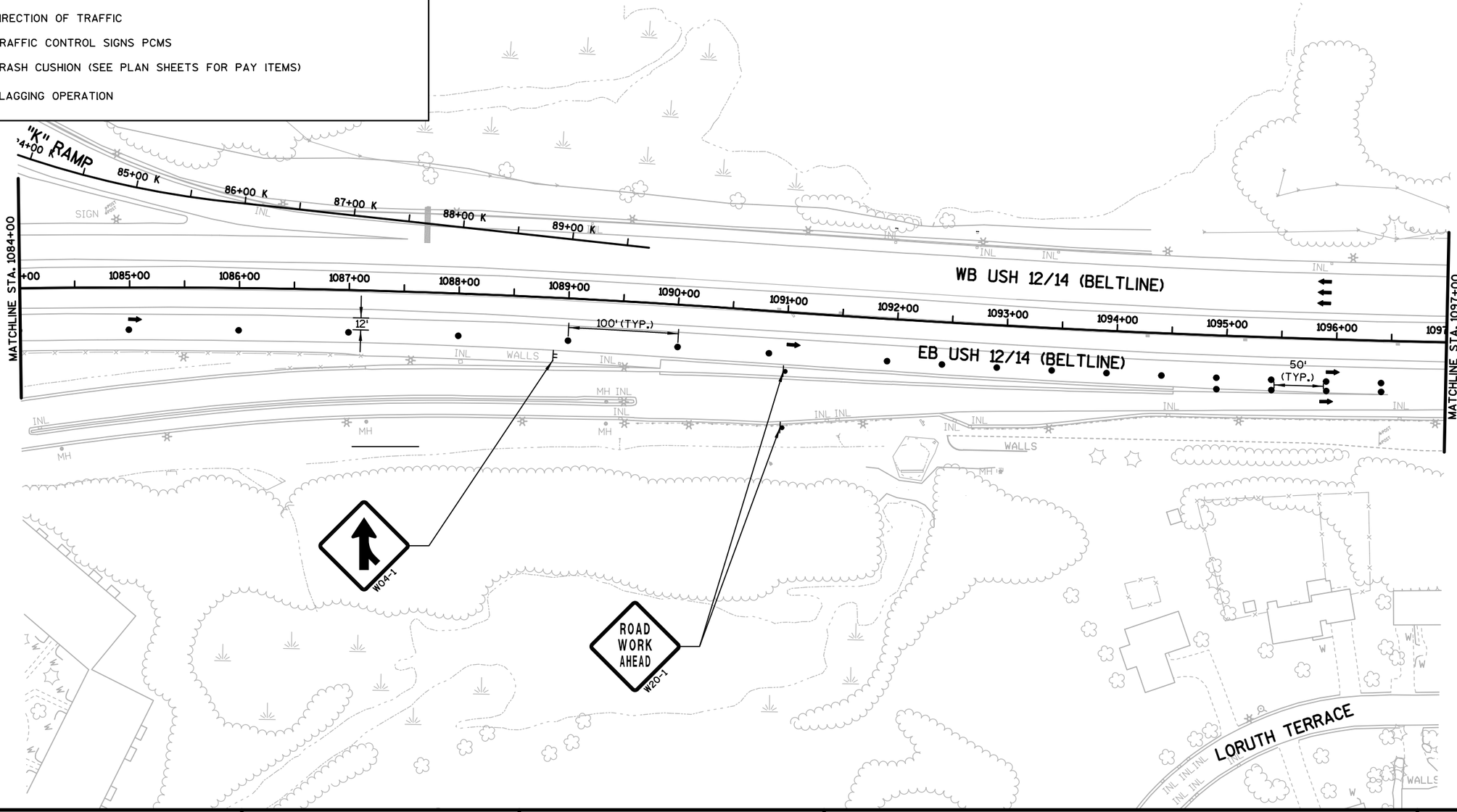
CONSTRUCTION

CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT WET DETENSION BASIN B. SEE CONSTRUCTION DETAILS.

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL-BELTLINE STORM SEWER XING-STAGE 1 PHASE 4	SHEET 488	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

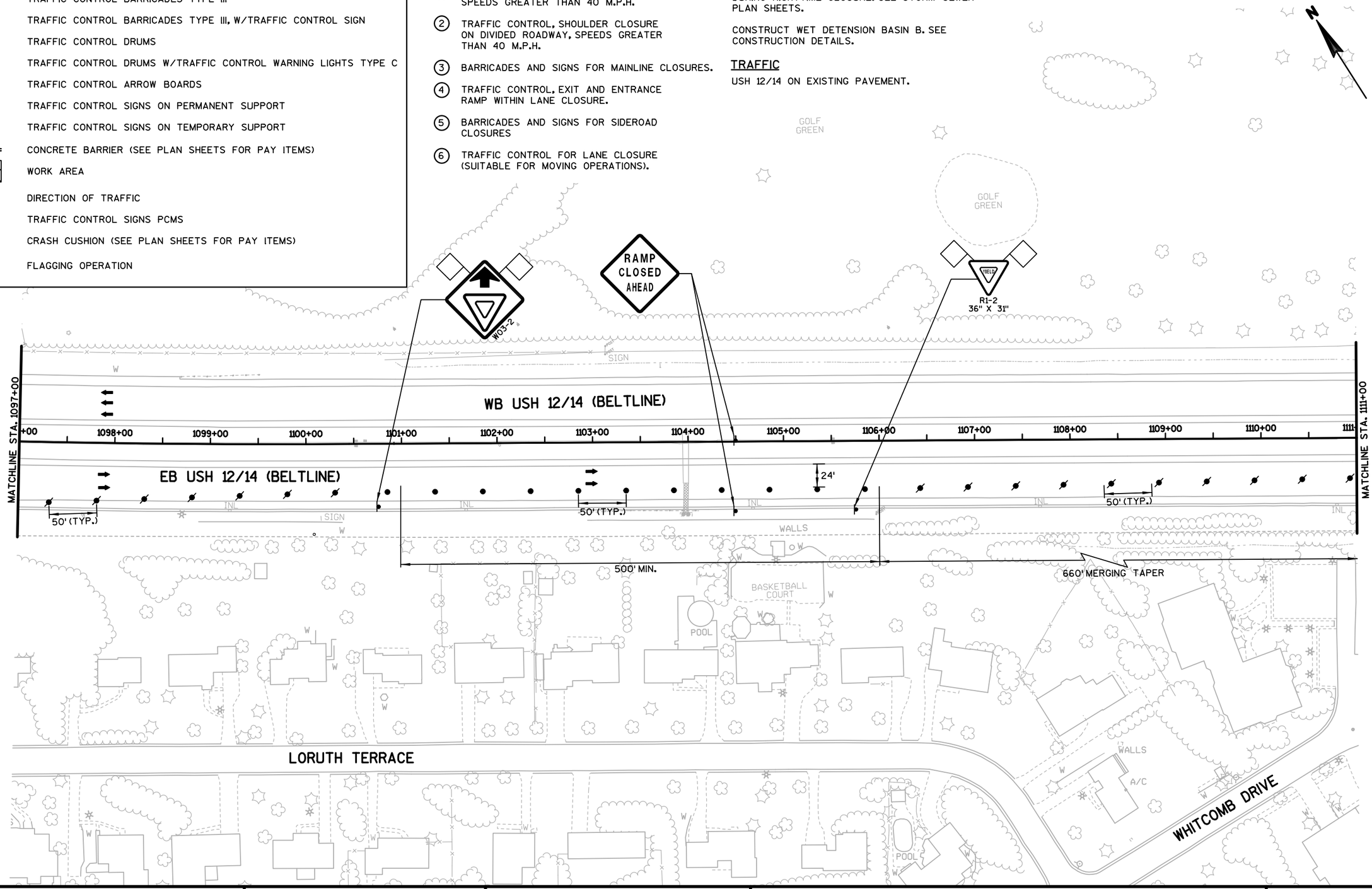
CONSTRUCTION

CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT WET DETENSION BASIN B. SEE CONSTRUCTION DETAILS.

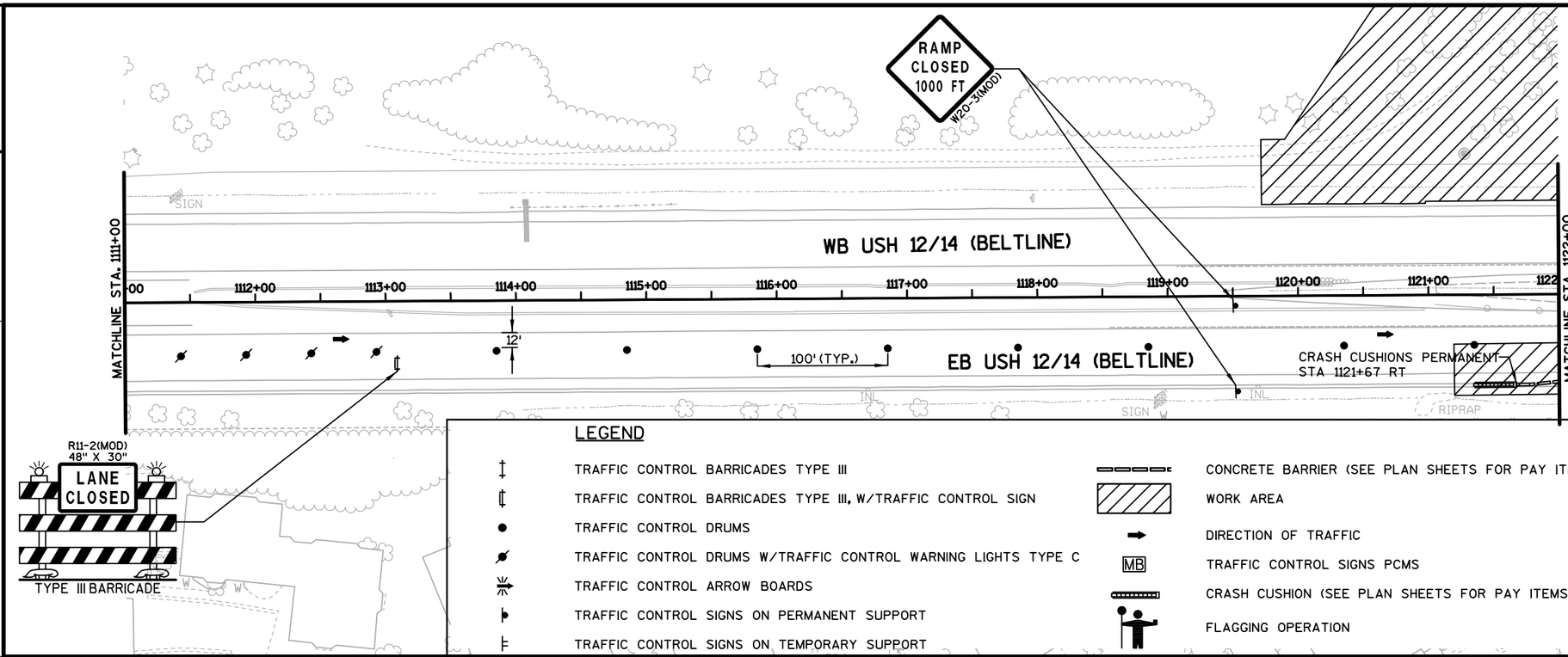
TRAFFIC

USH 12/14 ON EXISTING PAVEMENT.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE STORM SEWER - STAGE 1 PHASE 4	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026136_s1_p4.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

CONSTRUCTION

CONSTRUCT MAINLINE STORM SEWER CROSSING DURING NIGHTTIME CLOSURE. SEE STORM SEWER PLAN SHEETS.

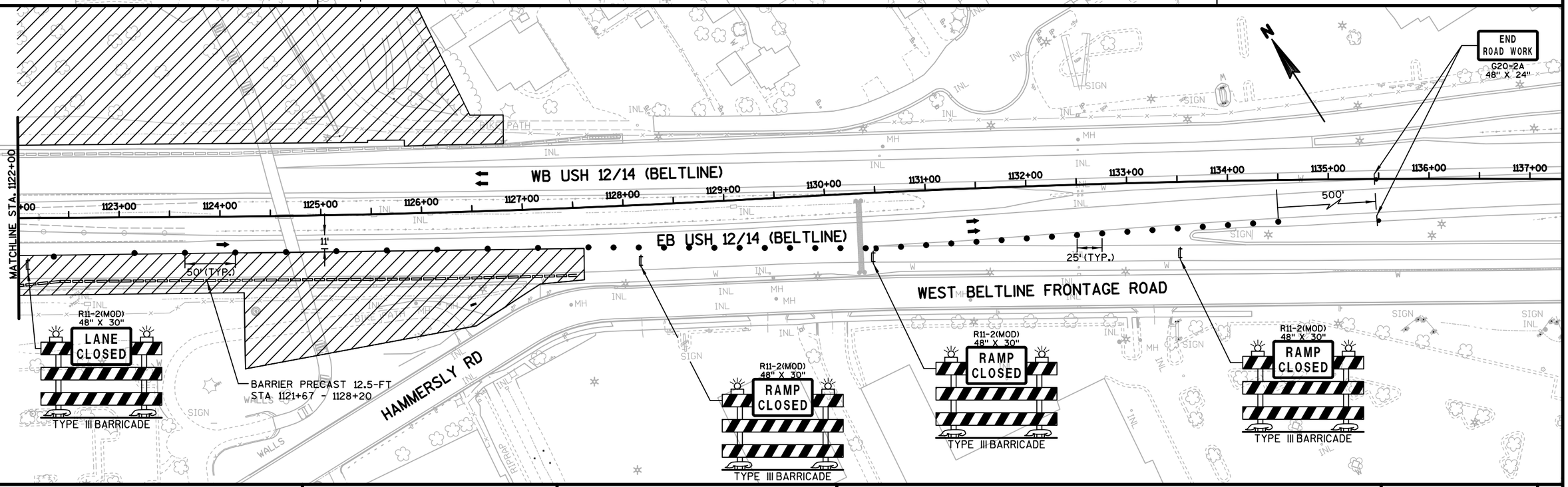
CONSTRUCT WET DETENSION BASIN B. SEE CONSTRUCTION DETAILS.

TRAFFIC

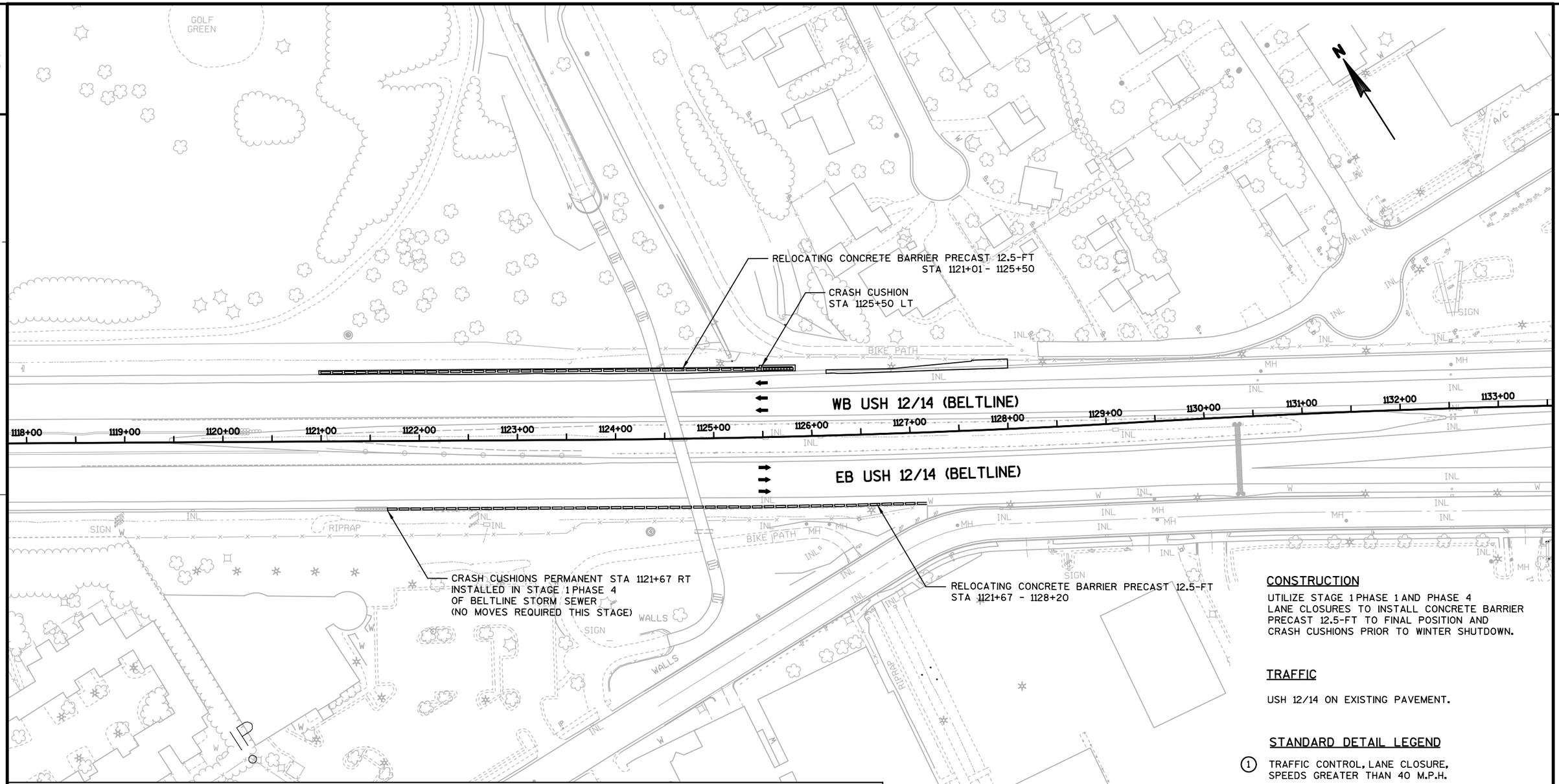
USH 12/14 ON EXISTING PAVEMENT.

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL-BELTLINE STORM SEWER XING-STAGE 1 PHASE 4	SHEET 490	E



CONSTRUCTION

UTILIZE STAGE 1 PHASE 1 AND PHASE 4 LANE CLOSURES TO INSTALL CONCRETE BARRIER PRECAST 12.5-FT TO FINAL POSITION AND CRASH CUSHIONS PRIOR TO WINTER SHUTDOWN.

TRAFFIC

USH 12/14 ON EXISTING PAVEMENT.

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - BELTLINE STORM SEWER - STAGE 1 PHASE 5	SHEET 491	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

REMOVE RUMBLE STRIP ALONG WB USH 12/14/18/151 OUTSIDE SHOULDER DURING NIGHTTIME CLOSURE.

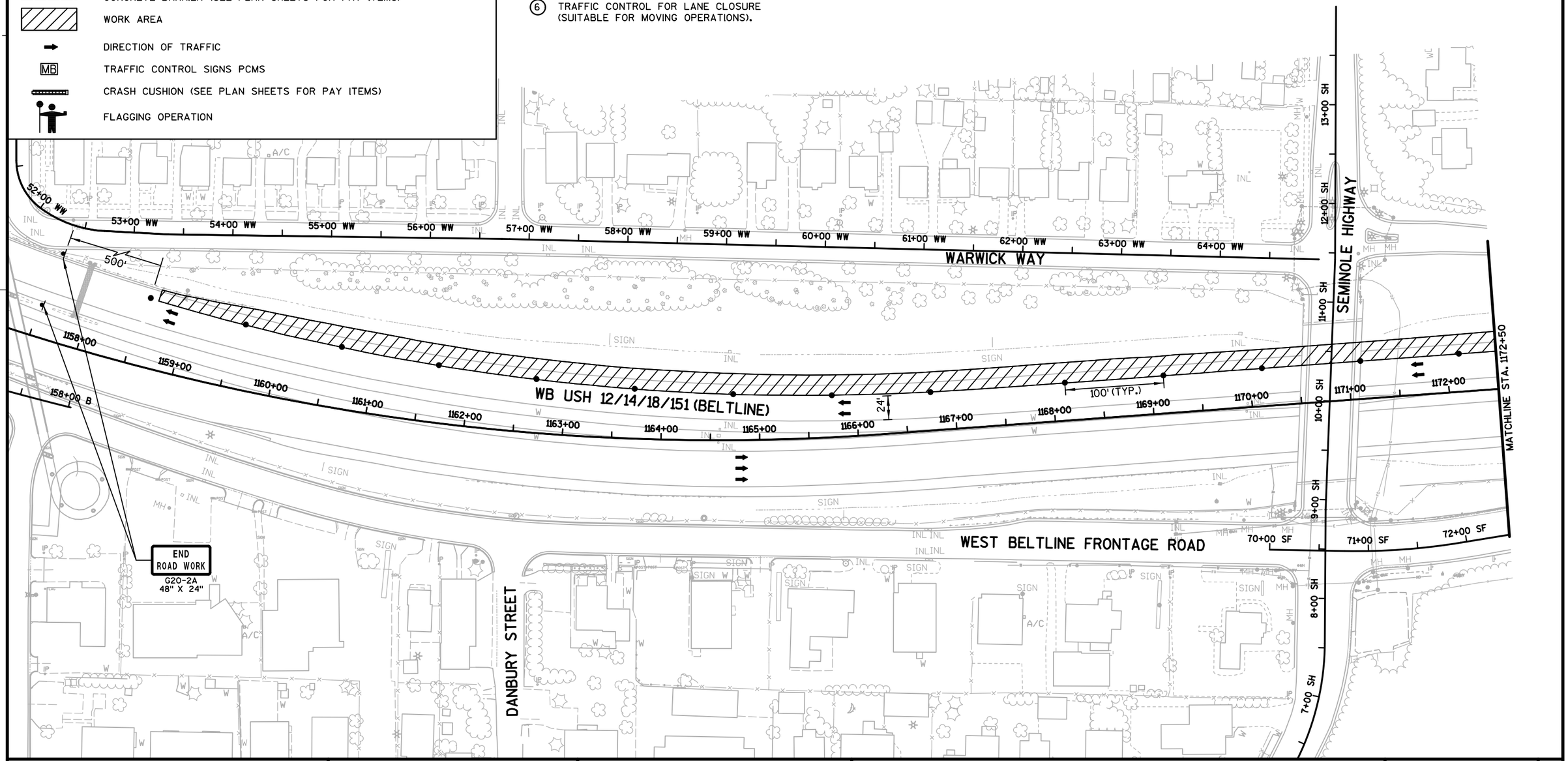
INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG WB USH 12/14/18/151 OUTSIDE SHOULDER DURNING NIGHTTIME CLOSURE.

INSTALL STORM SEWER IN INFIELD OF WB USH 12/14/18/151 OFF RAMP AT SEMINOLE HIGHWAY.

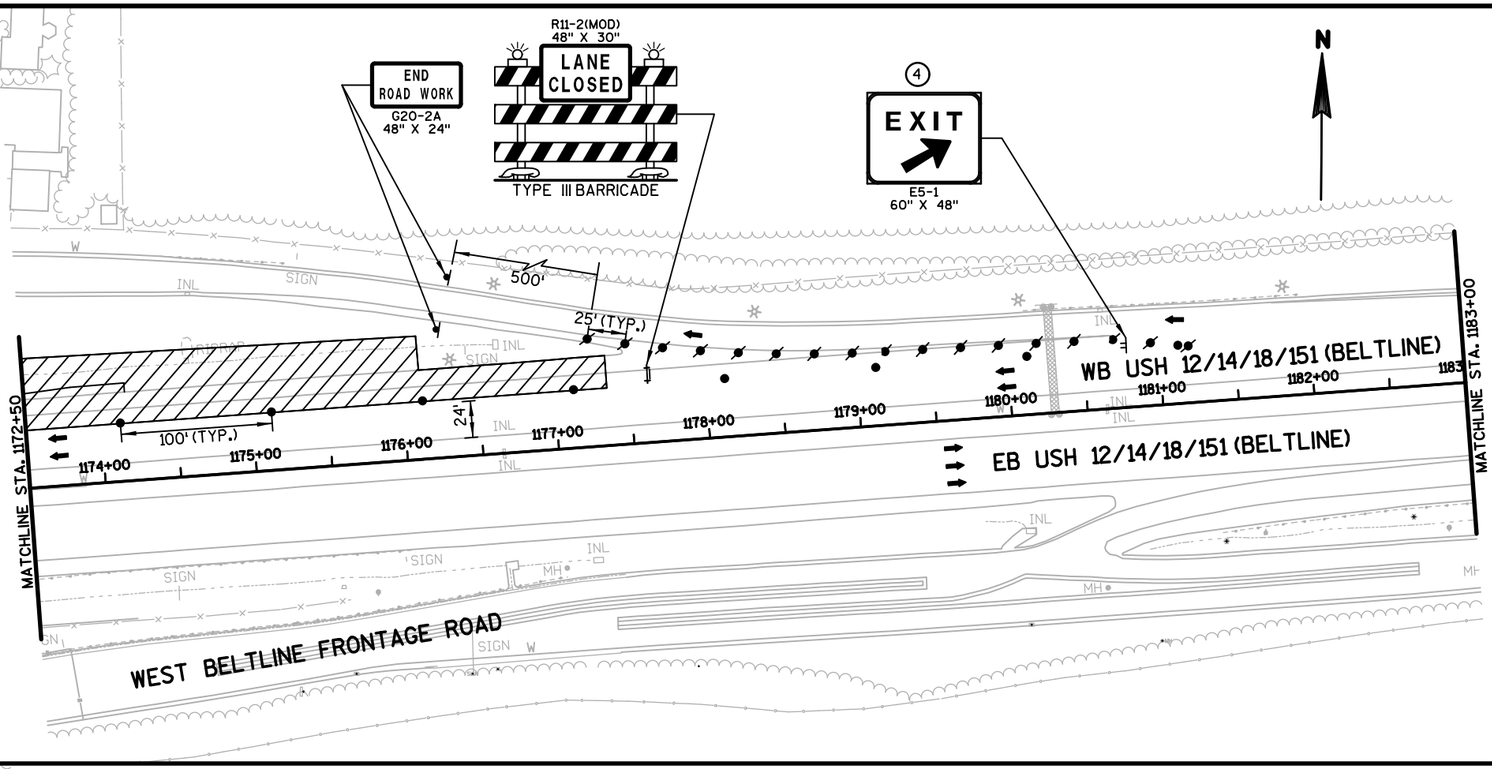
TRAFFIC

USH 12/14/18/151 MAINLINE ON EXISTING PAVEMENT.

N



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - NOISE WALL N-13-2 - STAGE 1 PHASE 1	SHEET 492	E



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

CONSTRUCTION

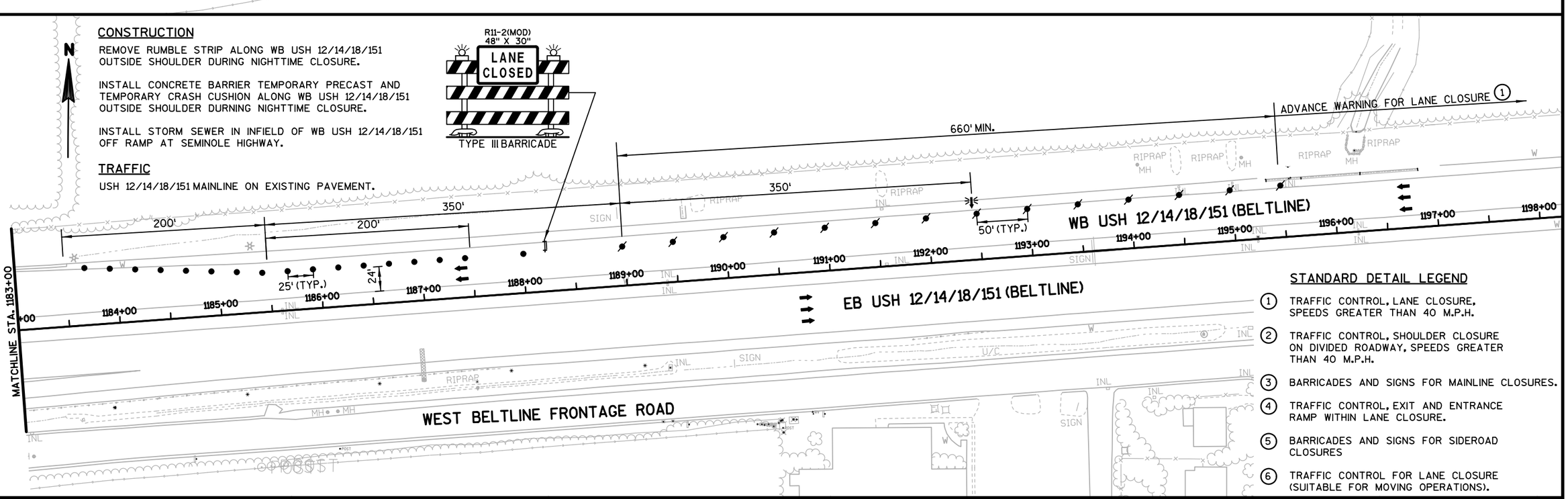
REMOVE RUMBLE STRIP ALONG WB USH 12/14/18/151 OUTSIDE SHOULDER DURING NIGHTTIME CLOSURE.

INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG WB USH 12/14/18/151 OUTSIDE SHOULDER DURNING NIGHTTIME CLOSURE.

INSTALL STORM SEWER IN INFIELD OF WB USH 12/14/18/151 OFF RAMP AT SEMINOLE HIGHWAY.

TRAFFIC

USH 12/14/18/151 MAINLINE ON EXISTING PAVEMENT.

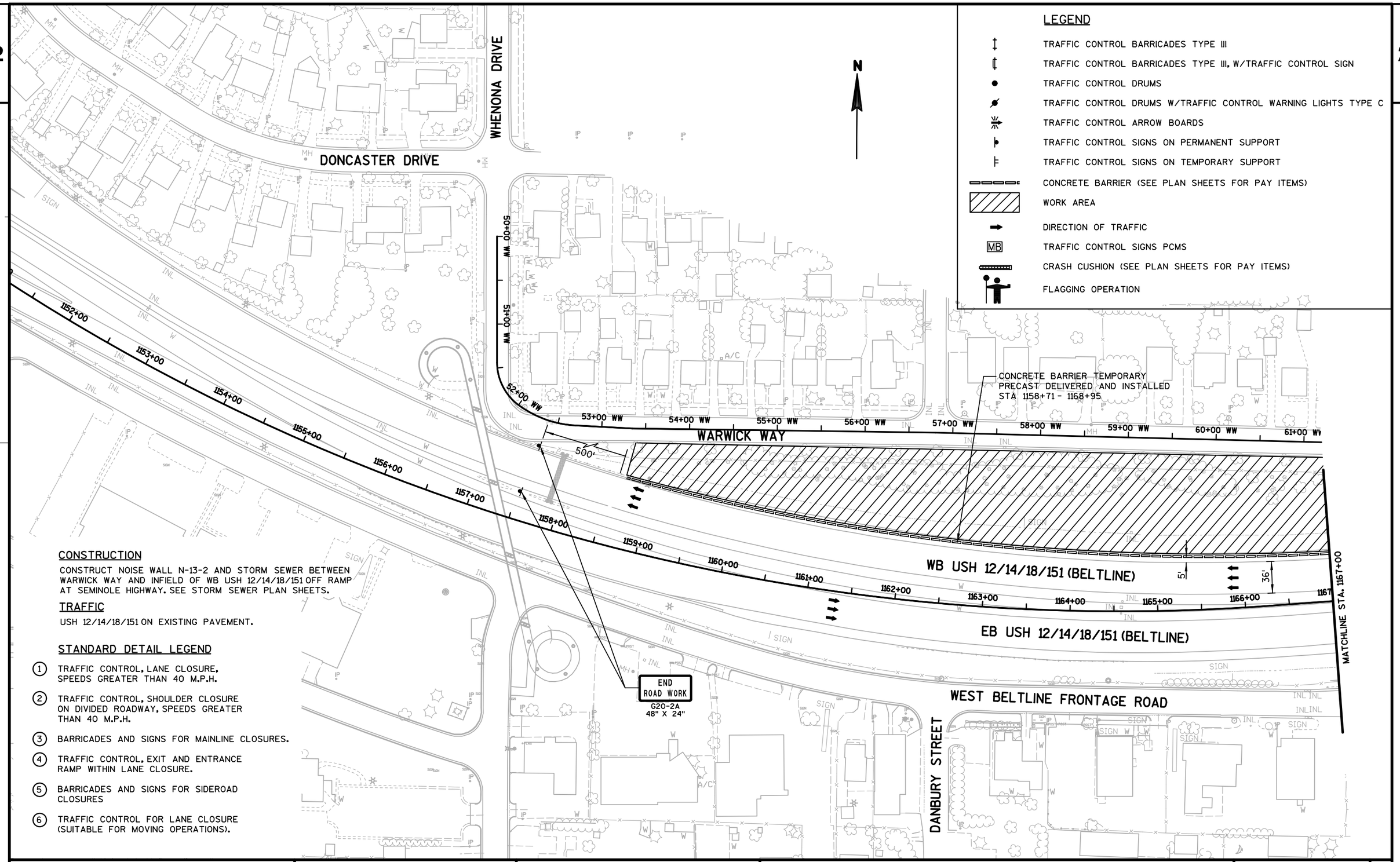


STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - NOISE WALL N-13-2 - STAGE 1 PHASE 1	SHEET 493	E

2



CONSTRUCTION

CONSTRUCT NOISE WALL N-13-2 AND STORM SEWER BETWEEN WARWICK WAY AND INFIELD OF WB USH 12/14/18/151 OFF RAMP AT SEMINOLE HIGHWAY. SEE STORM SEWER PLAN SHEETS.

TRAFFIC

USH 12/14/18/151 ON EXISTING PAVEMENT.

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - NOISE WALL N-13-2 - STAGE 1 PHASE 2	SHEET 494	E

2

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

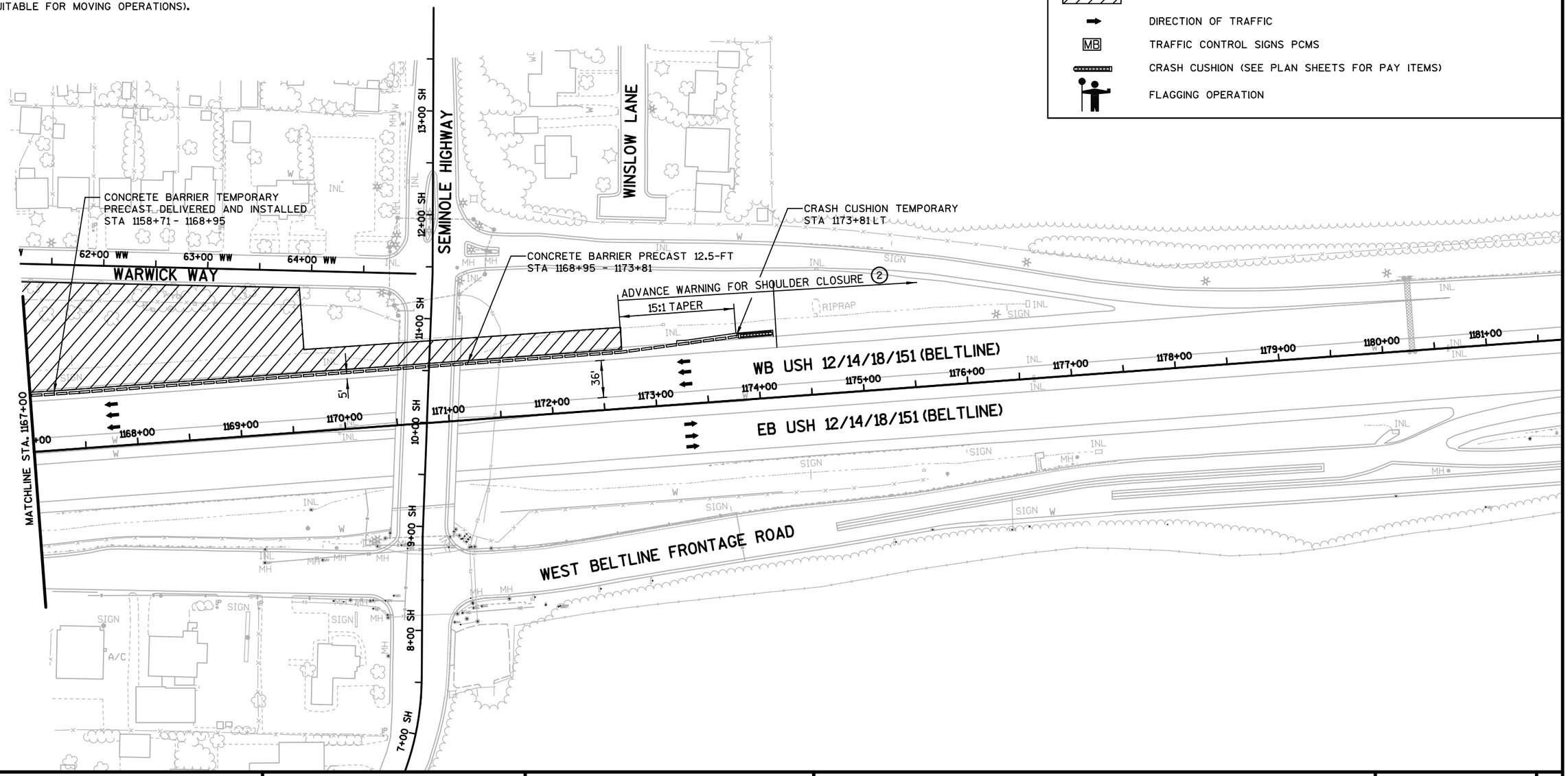
CONSTRUCT NOISE WALL N-13-2 AND STORM SEWER BETWEEN WARWICK WAY AND INFIELD OF WB USH 12/14/18/151 OFF RAMP AT SEMINOLE HIGHWAY. SEE STORM SEWER PLAN SHEETS.

TRAFFIC

USH 12/14/18/151 ON EXISTING PAVEMENT.

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - NOISE WALL N-13-2 - STAGE 1 PHASE 2	SHEET 495	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

REMOVE STRUCTURE B-13-264 AND CONSTRUCT STRUCTURE B-13-664.

CONSTRUCTION OF POST AND PANEL WALLS R-13-235/236.

TRAFFIC

USH 12/14/18/151 SHIFTED TO OUTSIDE EXITSTING PAVEMENT.

NIGHTTIME LANE CLOSURES REQUIRED FOR STRUCTURE DEMOLITION, MATERIAL DELIVERIES, PILE DRIVING OPERATIONS, GIRDER SETTING, AND FALSEWORK INSTALLATION/REMOVAL.

N

CONCRETE BARRIER PRECAST 12.5-FT
STA 1167+50 - 1175+44

CONCRETE BARRIER TEMPORARY PRECAST
STA 1158+71 - 1168+95
INSTALLED IN STAGE 1 PHASE 1 OF N-13-2
(NO MOVES REQUIRED THIS STAGE)

CONCRETE BARRIER PRECAST 12.5-FT
STA 1168+95 - 1173+81
INSTALLED IN STAGE 1 PHASE 1 OF N-13-2
(NO MOVES REQUIRED THIS STAGE)

SIGNS INSTALLED IN STAGE 1
PHASE 1 OF N-13-0002

END ROAD WORK G20-2A 48" x 24"

W01-4B

DANBURY STREET

WARWICK WAY

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY PAVEMENT MARKING
REFLECTIVE PAINT 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REFLECTIVE PAINT 4-INCH (YELLOW)

400'

500'

+46

+43

+73

+80

+50

330' SHIFTING TAPER

WB USH 12/14/18/151 (BELTLINE)

1156+00 1157+00 1158+00 1159+00 1160+00 1161+00 1162+00 1163+00 1164+00 1165+00 1166+00 1167+00 1168+00

MATCHLINE STA. 1170+00

15:1 TAPER

2% 3% 2%

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

(2) ADVANCE WARNING FOR SHOULDER CLOSURE

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

BRITTA PARKWAY

WHENONA DRIVE

WEST BELTLINE FRONTAGE ROAD

DANBURY STREET

TEMPORARY PAVEMENT MARKING
REFLECTIVE PAINT 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

CRASH CUSHIONS PERMANENT
STA 1165+85 RT
INSTALLED IN STAGE 1 PHASE 2
SEMINOLE FRONTAGE ROAD CONSTRUCTION.
(NO MOVES REQUIRED THIS STAGE)

THRIE BEAM CONNECTION
SEE SDD CONCRETE BARRIER
TEMPORARY PRECAST

CONCRETE BARRIER PRECAST 12.5-FT
STA 1166+41 - 1171+66

CONCRETE BARRIER PRECAST 12.5-FT
STA 1165+85 - 1177+05
INSTALLED IN STAGE 1 PHASE 2 SEMINOLE
FRONTAGE ROAD CONSTRUCTION.
(NO MOVES REQUIRED THIS STAGE)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - B-13-664 - STAGE 3 PHASE 1	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026150_s3_p1.dgn
PLOT DATE : 1/31/2013
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 42

CONSTRUCTION

REMOVE STRUCTURE B-13-264 AND CONSTRUCT STRUCTURE B-13-664.

CONSTRUCTION OF POST AND PANEL WALLS R-13-235/236.

TRAFFIC

USH 12/14/18/151 SHIFTED TO OUTSIDE EXITSTING PAVEMENT.

NIGHTTIME LANE CLOSURES REQUIRED FOR STRUCTURE DEMOLITION, MATERIAL DELIVERIES, PILE DRIVING OPERATIONS, GIRDER SETTING, AND FALSEWORK INSTALLATION/REMOVAL.

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

SEMINOLE HIGHWAY

WEST BELTLINE FRONTAGE ROAD

EB USH 12/14/18/151 (BELTLINE)

MATCHLINE STA. 1170+00

CONCRETE BARRIER PRECAST 12.5-LF
STA 1168+95 - 1173+81
INSTALLED IN STAGE 1 PHASE 1 OF N-13-2
(NO MOVES REQUIRED THIS STAGE)

CONCRETE BARRIER PRECAST 12.5-FT
STA 1167+50 - 1175+44

CRASH CUSHION TEMPORARY
STA 1173+81 LT
INSTALLED IN STAGE 1 PHASE 1 OF N-13-2
(NO MOVES REQUIRED THIS STAGE)

ADVANCE WARNING FOR SHOULDER CLOSURE
SET IN STAGE 1 PHASE 1 N-13-2

THRIE BEAM CONNECTION
SEE SDD CONCRETE BARRIER
TEMPORARY PRECAST

ADVANCE WARNING FOR MAINLINE WARNING SEE DETAIL C

W01-4C

13+00 SH

2+00 SH

1+00 S

8+00 SH

7+00 SH

ADVANCE WARNING FOR MAINLINE CLOSURE SEE DETAIL C

15:1 TAPER

330' SHIFTING TAPER

400'

1172+00 1173+00 1174+00 1175+00 1176+00 1177+00 1178+00 1179+00 1180+00 1181+00 1182+00 1183+00 1184+00 1185+00

CONCRETE BARRIER TEMPORARY PRECAST
STA 1177+05 - 1177+56
INSTALLED STAGE 2 PHASE 3 OF
SEMINOLE FRONTAGE ROAD
(NO MOVES REQUIRED THIS STAGE)

TEMPORARY PAVEMENT MARKING
REFLECTIVE PAINT 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REFLECTIVE PAINT 4-INCH (YELLOW)

TEMPORARY PAVEMENT MARKING
REFLECTIVE PAINT 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH (YELLOW)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 8-INCH
(WHITE SKIPS, 3' SEG., 9' GAP)

END ROAD WORK
G20-2A
48" X 24"

CONCRETE BARRIER PRECAST 12.5-FT
STA 1166+41 - 1171+66

CONCRETE BARRIER TEMPORARY
PRECAST DELIVERED AND INSTALLED
STA 1171+66 - 1176+27

CONCRETE BARRIER PRECAST 12.5-FT
STA 1165+85 - 1177+05
INSTALLED STAGE 1 PHASE 1 OF
SEMINOLE FRONTAGE ROAD
(NO MOVES REQUIRED THIS STAGE)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - B-13-664 - STAGE 3 PHASE 1	SHEET 497	E

2

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

WINTER SHUTDOWN

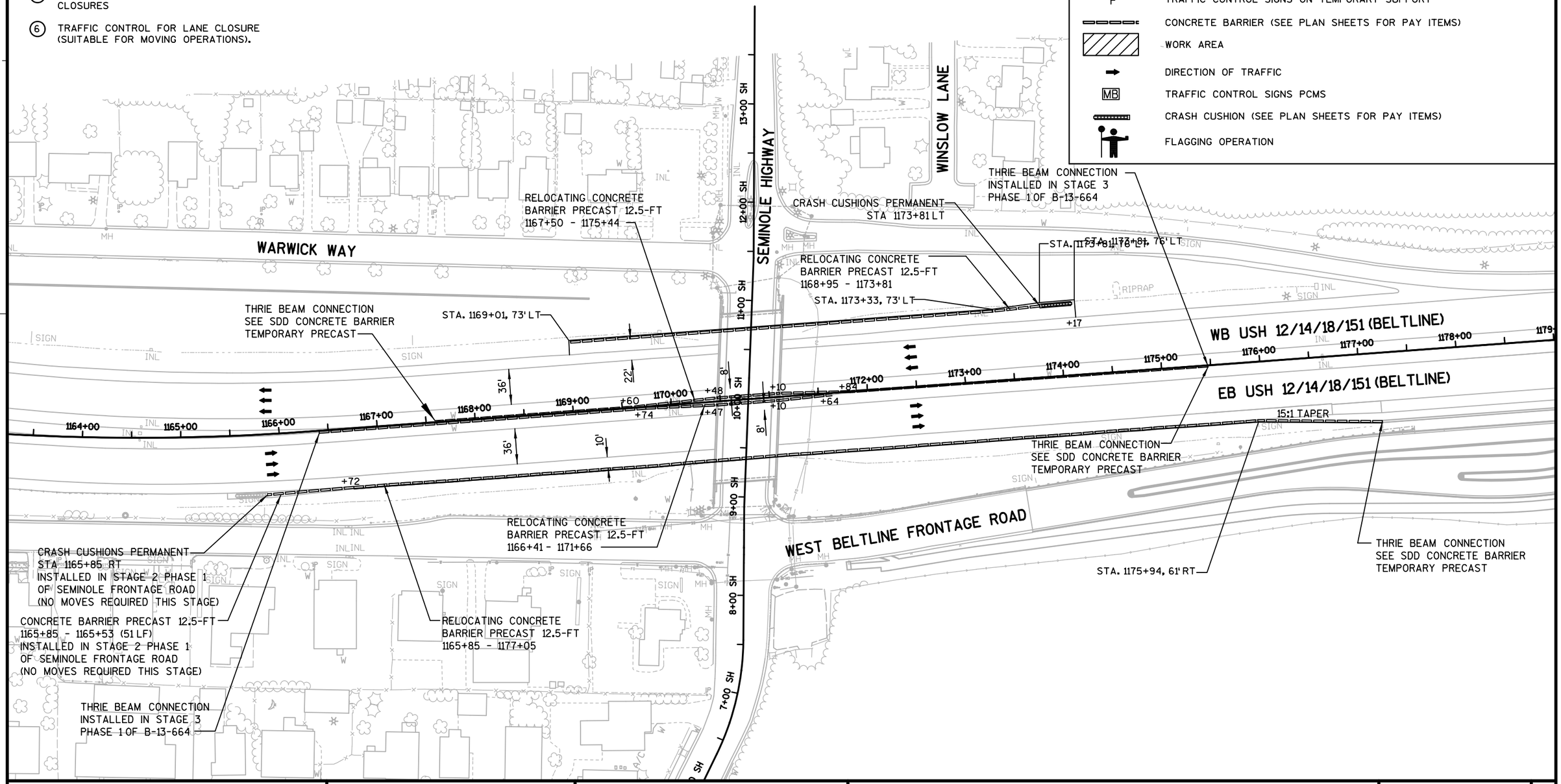
SEE PAVEMENT MARKING PLAN FOR PAVEMENT MARKING EPOXY

TRAFFIC

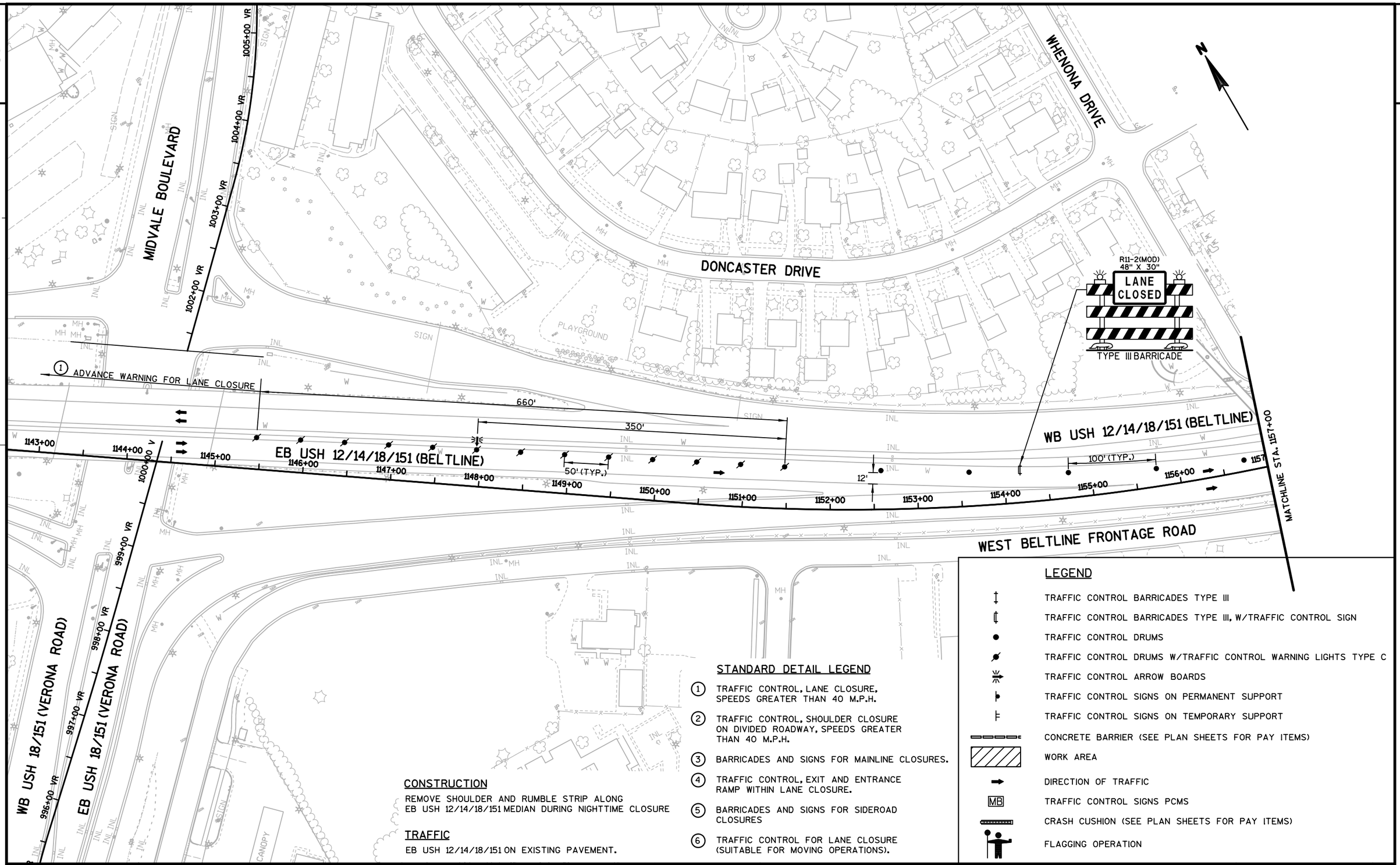
USH 12/14/18/151 ON EXISTING PAVEMENT.

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	B-13-664 - STAGE 3 PHASE 2 (WINTER SHUTDOWN)	SHEET 498 E



CONSTRUCTION

REMOVE SHOULDER AND RUMBLE STRIP ALONG EB USH 12/14/18/151 MEDIAN DURING NIGHTTIME CLOSURE

TRAFFIC

EB USH 12/14/18/151 ON EXISTING PAVEMENT.

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 1 PHASE 1	SHEET 499	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

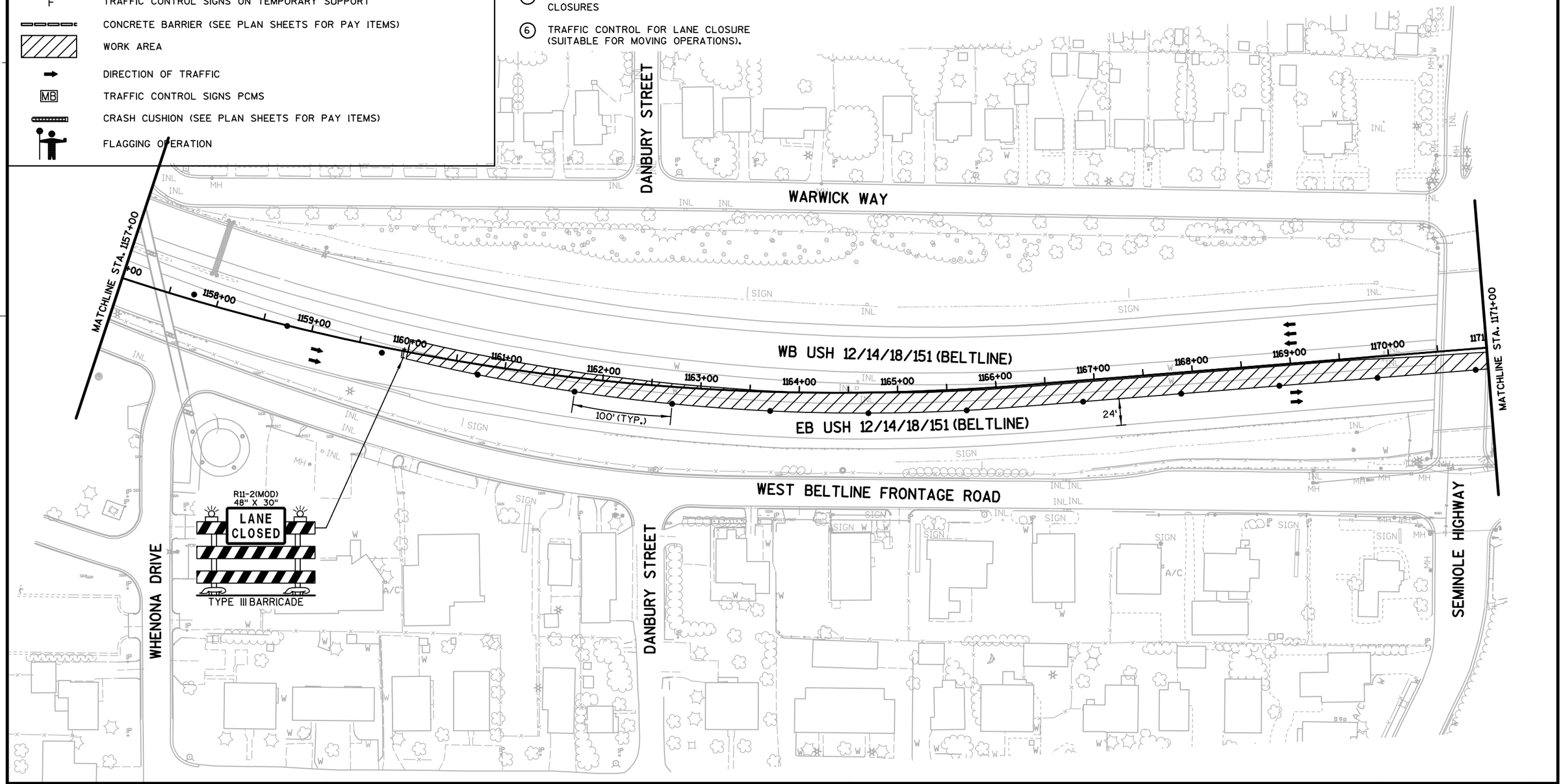
CONSTRUCTION

REMOVE SHOULDER AND RUMBLE STRIP ALONG EB USH 12/14/18/151 MEDIAN DURING NIGHTTIME CLOSURE.

TRAFFIC

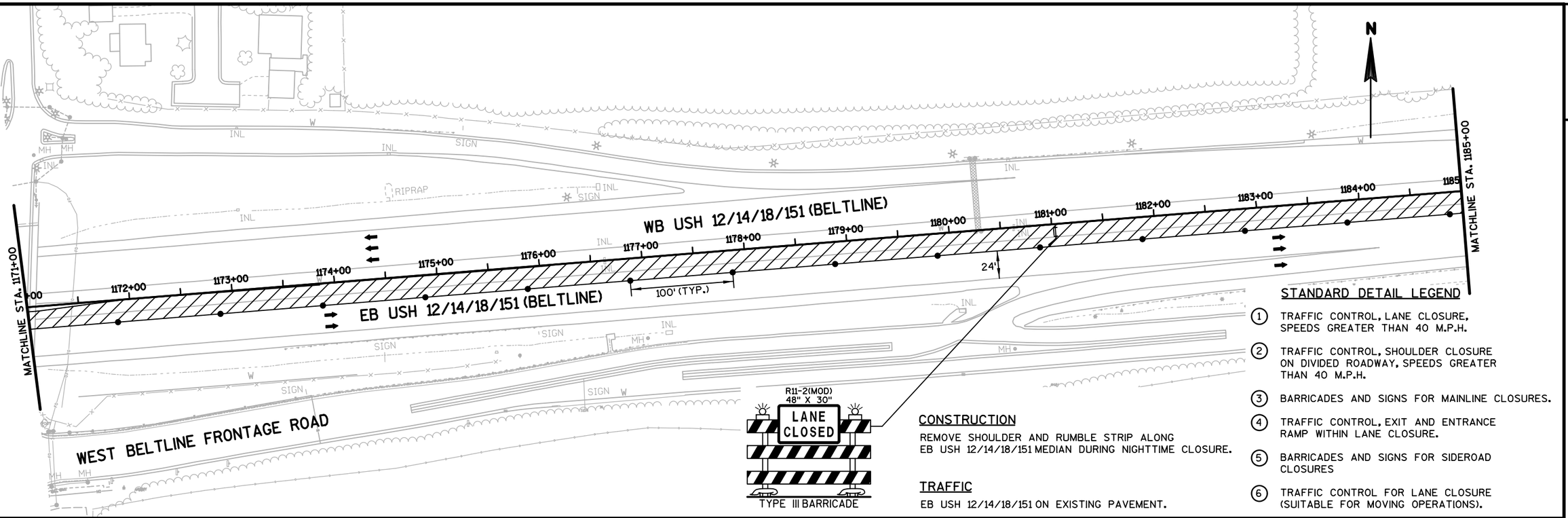
EB USH 12/14/18/151 ON EXISTING PAVEMENT.

N



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 1 PHASE 1	SHEET 500	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026161_s1_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



CONSTRUCTION

REMOVE SHOULDER AND RUMBLE STRIP ALONG EB USH 12/14/18/151 MEDIAN DURING NIGHTTIME CLOSURE.

TRAFFIC

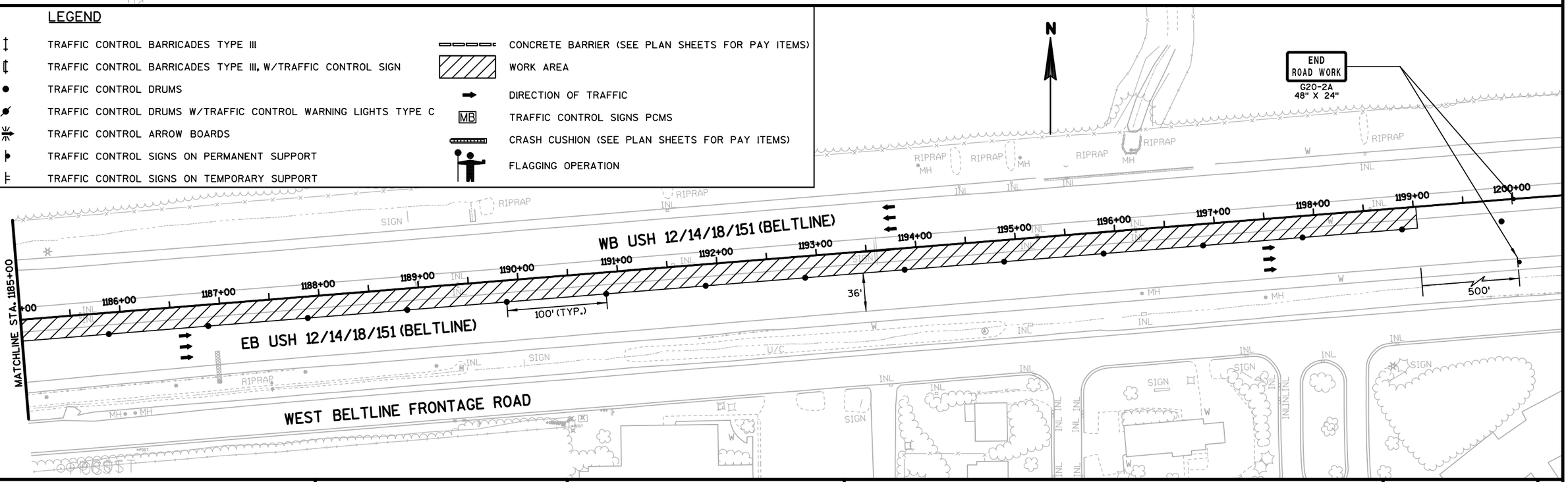
EB USH 12/14/18/151 ON EXISTING PAVEMENT.

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 1 PHASE 1	SHEET 501	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

S. MIDVALE BOULEVARD

1002+00 VR
1003+00 VR
1004+00 VR
1005+00 VR

ROAD WORK AHEAD W20-1

R11-2(MOD) 48" X 30"
LANE CLOSED
TYPE III BARRICADE

DONCASTER DRIVE

WB USH 12/14/18/151 (BELTLINE)
EB USH 12/14/18/151 (BELTLINE)

1139+00 1140+00 1141+00 1142+00 1143+00 1144+00 1145+00 1146+00 1147+00 1148+00 1149+00 1150+00 1151+00 1152+00 1153+00

50' (TYP.)
12'
350'
660'
660' MERGING TAPER

MATCHLINE STA. 1153+00

1 ADVANCE WARNING FOR LANE CLOSURE

WEST BELTLINE FRONTAGE ROAD

WB USH 18/151 (VERONA ROAD)
EB USH 18/151 (VERONA ROAD)

996+00 VR
997+00 VR
998+00 VR
999+00 VR
1000+00 VR

ROAD WORK AHEAD W20-1

W03-2

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

REMOVE SHOULDER AND RUMBLE STRIP ALONG EB USH 12/14/18/151 OUTSIDE SHOULDER DURING NIGHTTIME CLOSURE.

INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG EB USH 12/14/18/151 OUTSIDE SHOULDER DURNING NIGHTTIME CLOSURE.

CONSTRUCT CONCRETE WEIR WALL 18-INCH AT STA. 1196+22 RT DURING NIGHTTIME CLOSURE.

TRAFFIC

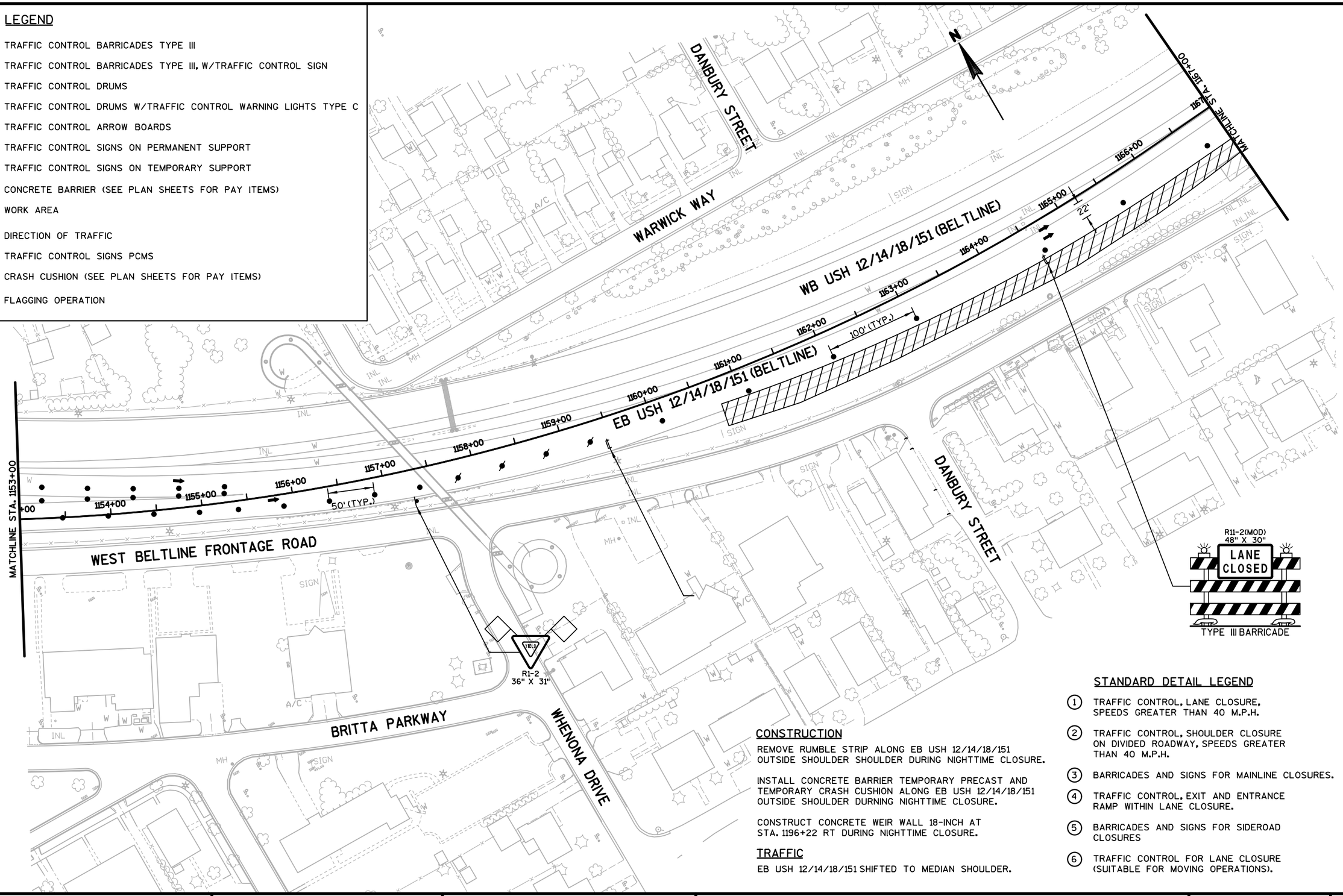
EB USH 12/14/18/151 SHIFTED TO MEDIAN SHOULDER.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 1 PHASE 2	SHEET 502	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



CONSTRUCTION

REMOVE RUMBLE STRIP ALONG EB USH 12/14/18/151 OUTSIDE SHOULDER SHOULDER DURING NIGHTTIME CLOSURE.

INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG EB USH 12/14/18/151 OUTSIDE SHOULDER DURNING NIGHTTIME CLOSURE.

CONSTRUCT CONCRETE WEIR WALL 18-INCH AT STA. 1196+22 RT DURING NIGHTTIME CLOSURE.

TRAFFIC

EB USH 12/14/18/151 SHIFTED TO MEDIAN SHOULDER.

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 1 PHASE 2	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026162b_s1_p2.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

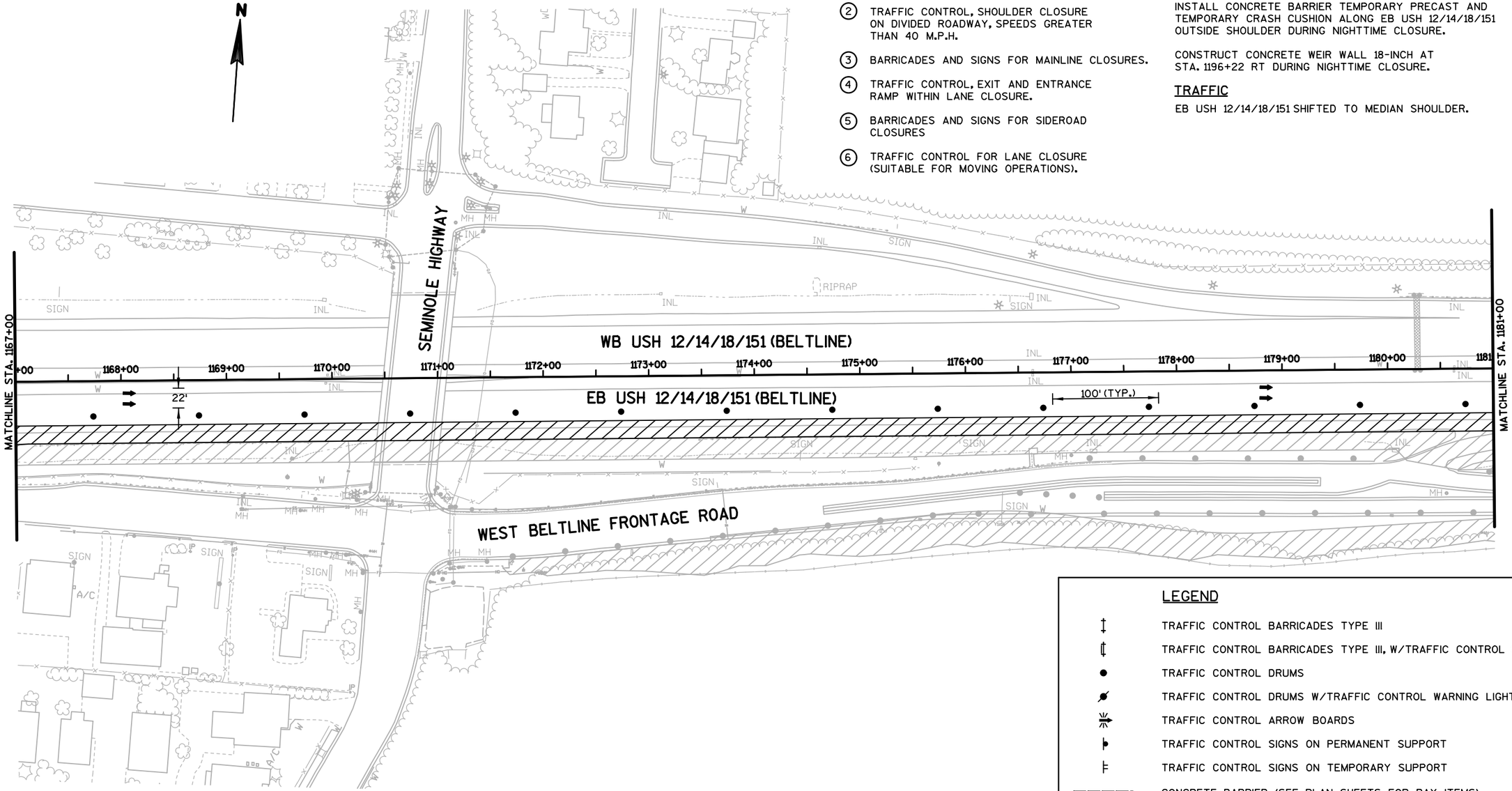
REMOVE SHOULDER AND RUMBLE STRIP ALONG EB USH 12/14/18/151 OUTSIDE SHOULDER DURING NIGHTTIME CLOSURE.

INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG EB USH 12/14/18/151 OUTSIDE SHOULDER DURING NIGHTTIME CLOSURE.

CONSTRUCT CONCRETE WEIR WALL 18-INCH AT STA. 1196+22 RT DURING NIGHTTIME CLOSURE.

TRAFFIC

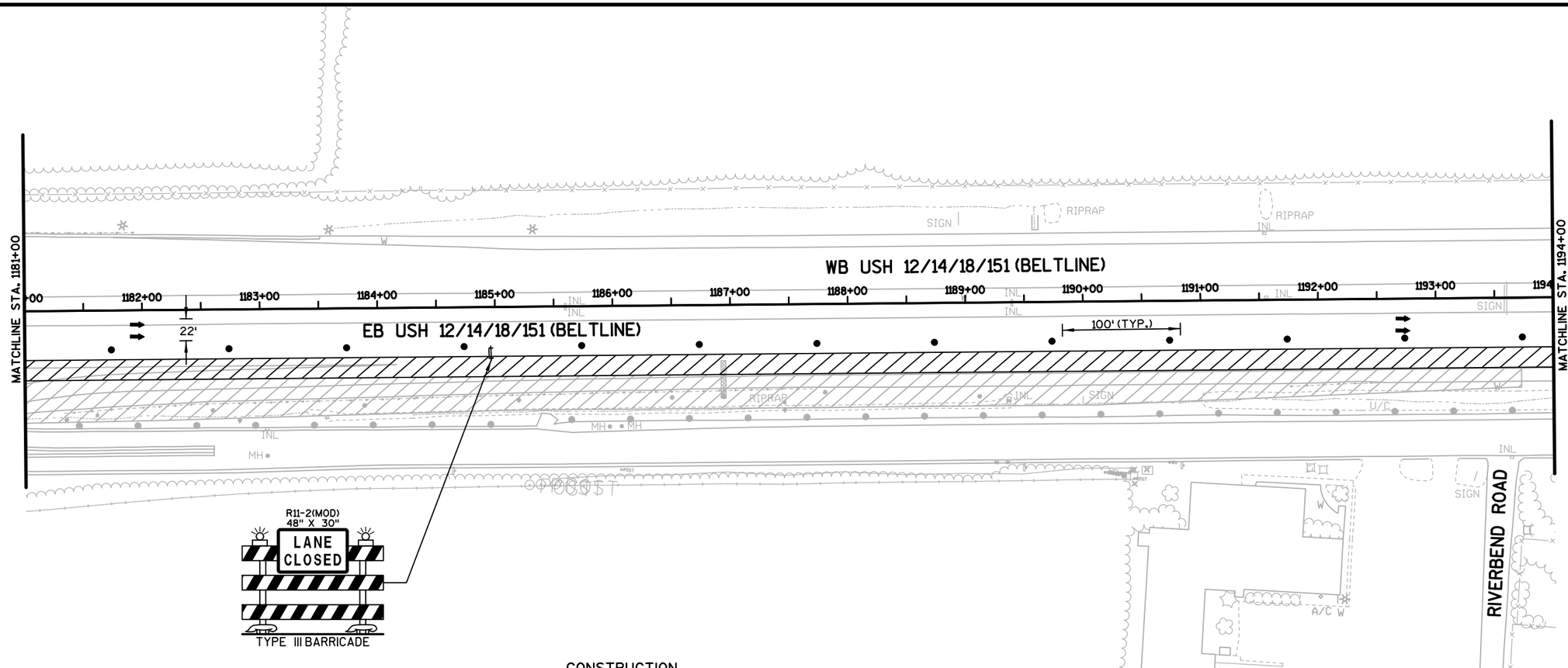
EB USH 12/14/18/151 SHIFTED TO MEDIAN SHOULDER.



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 1 PHASE 2	SHEET 504	E



CONSTRUCTION

REMOVE SHOULDER AND RUMBLE STRIP ALONG EB USH 12/14/18/151 OUTSIDE SHOULDER DURING NIGHTTIME CLOSURE.

INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG EB USH 12/14/18/151 OUTSIDE SHOULDER DURING NIGHTTIME CLOSURE.

CONSTRUCT CONCRETE WEIR WALL 18-INCH AT STA. 1196+22 RT DURING NIGHTTIME CLOSURE.

TRAFFIC

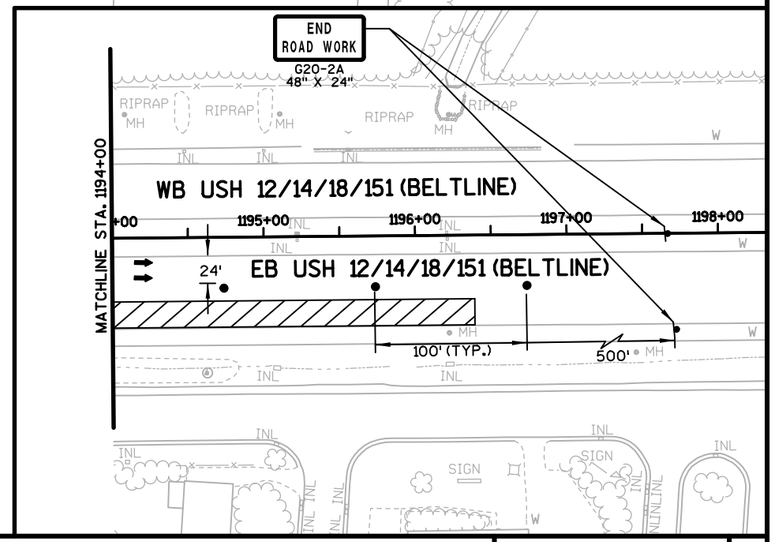
EB USH 12/14/18/151 SHIFTED TO OUTSIDE SHOULDER.

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 1 PHASE 2	SHEET 505	E

CONSTRUCTION

CONSTRUCT EB USH 12/14/18/151 AUXILLARY LANE.

CONSTRUCT STORM SEWER ALONG THE WB USH 12/14/18/151 OUTSIDE SHOULDER. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT MULTIUSE PATH ALONG SOUTH SHOULDER OF WEST BELTLINE FRONTAGE ROAD AND 8' TEMPORARY PEDESTRIAN/BICYCLE ACCESS AND MID-BLOCK CROSSING NEAR STA 83+85 SF.

TRAFFIC

EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

WEST BELTLINE FRONTAGE ROAD ON EXISTING PAVEMENT.

OFF-PEAK FLAGGING OPERATIONS REQUIRED TO MAINTAIN EB AND WB WEST BELTLINE FRONTAGE ROAD AND BICYCLE TRAFFIC AT ALL TIMES.

N

DONCASTER DRIVE

WHENONA DRIVE

DANBURY STREET

WARWICK WAY

EB USH 12/14/18/151 (BELTLINE)

WB USH 12/14/18/151 (BELTLINE)

WEST BELTLINE FRONTAGE ROAD

1151+00 1152+00 1153+00 1154+00 1155+00 1156+00 1157+00 1158+00 1159+00 1160+00 1161+00 1162+00 1163+00 1164+00 1165+00 1166

ROAD WORK AHEAD W20-1

W01-4C

STA. 1165+45, 64' RT

36'

MATCHLINE STA. 1166+00

② ADVANCE WARNING FOR SHOULDER CLOSURE

CRASH CUSHIONS PERMANENT
STA. 1165+45, 64' RT STA 1165+85 RT

STA. 1165+89, 65' RT

CONCRETE BARRIER PRECAST 12.5-FT
STA 1165+85 - 1177+05

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

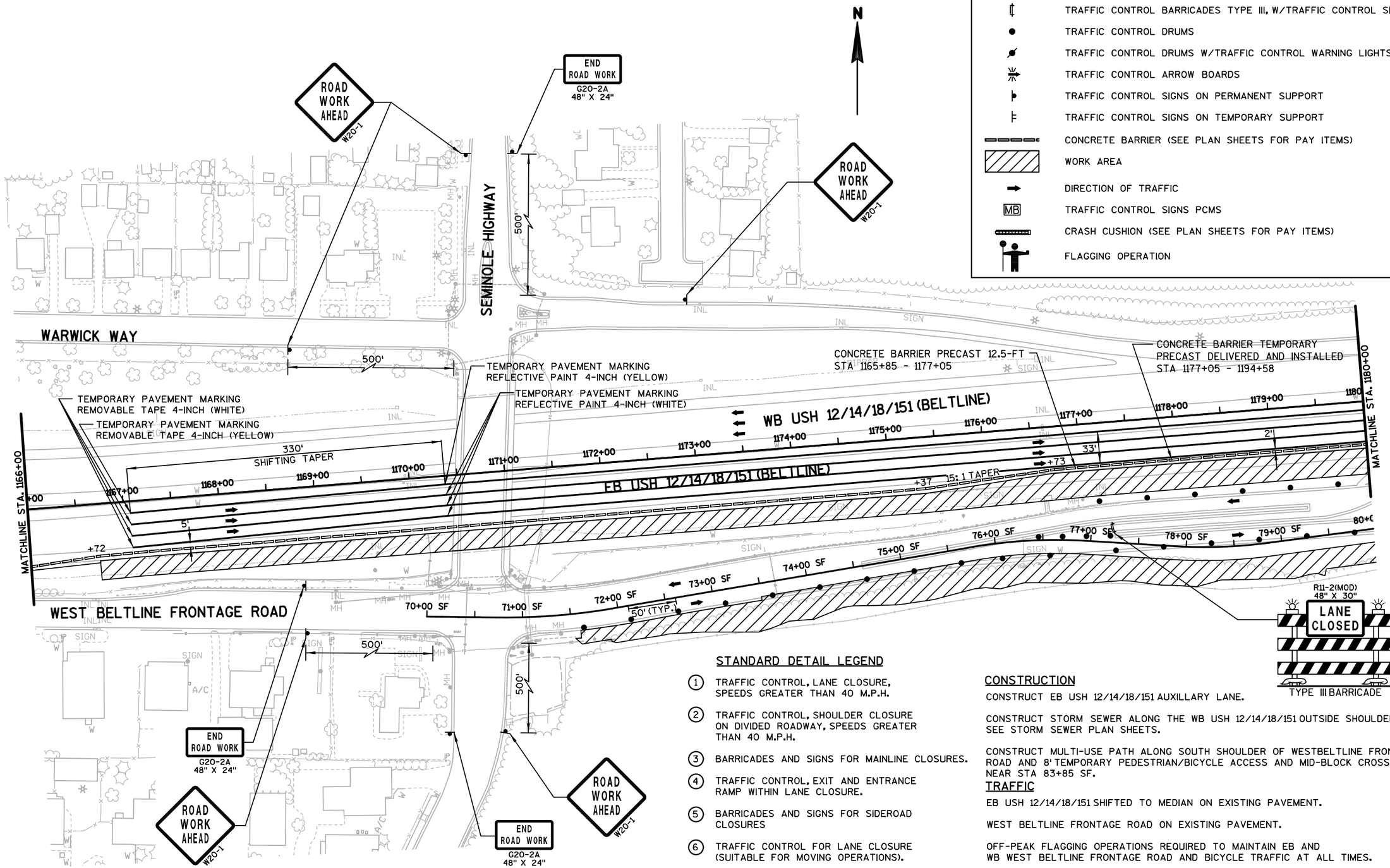
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 1	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026163_s2_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT EB USH 12/14/18/151 AUXILLARY LANE.

CONSTRUCT STORM SEWER ALONG THE WB USH 12/14/18/151 OUTSIDE SHOULDER. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT MULTI-USE PATH ALONG SOUTH SHOULDER OF WESTBELTLINE FRONTAGE ROAD AND 8' TEMPORARY PEDESTRIAN/BICYCLE ACCESS AND MID-BLOCK CROSSING NEAR STA 83+85 SF.

TRAFFIC

EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

WEST BELTLINE FRONTAGE ROAD ON EXISTING PAVEMENT.

OFF-PEAK FLAGGING OPERATIONS REQUIRED TO MAINTAIN EB AND WB WEST BELTLINE FRONTAGE ROAD AND BICYCLE TRAFFIC AT ALL TIMES.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 1	SHEET 507	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT EB USH 12/14/18/151 AUXILLARY LANE.

CONSTRUCT STORM SEWER ALONG THE WB USH 12/14/18/151 OUTSIDE SHOULDER. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT MULTI-USE PATH ALONG SOUTH SHOULDER OF WEST BELTLINE FRONTAGE ROAD AND 8' TEMPORARY PEDESTRIAN/BICYCLE ACCESS AND MID-BLOCK CROSSING NEAR STA 83+85 SF.

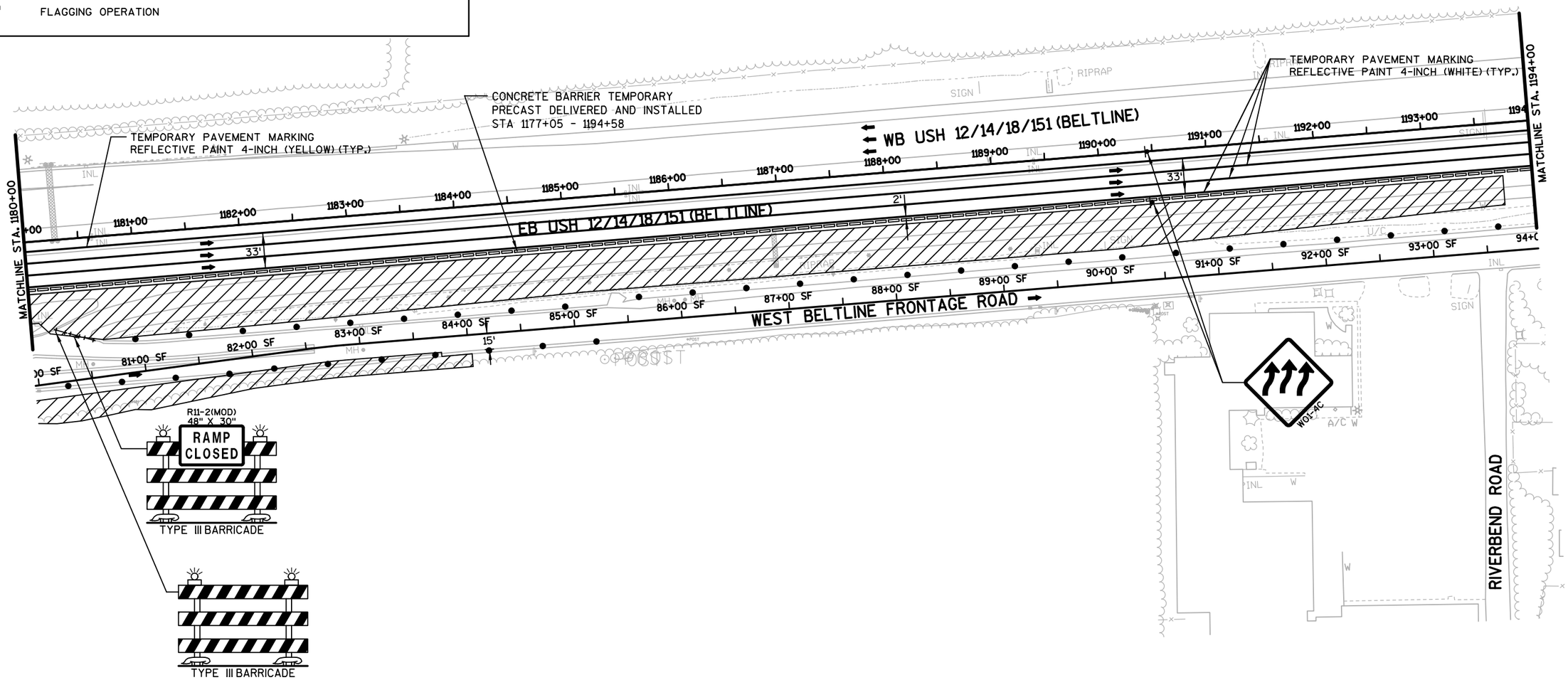
TRAFFIC

EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

WEST BELTLINE FRONTAGE ROAD ON EXISTING PAVEMENT.

OFF-PEAK FLAGGING OPERATIONS REQUIRED TO MAINTAIN EB AND WB WEST BELTLINE FRONTAGE ROAD AND BICYCLE TRAFFIC AT ALL TIMES.

N



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 1	SHEET 508	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT EB USH 12/14/18/151 AUXILLARY LANE.

CONSTRUCT STORM SEWER ALONG THE WB USH 12/14/18/151 OUTSIDE SHOULDER. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT MULTI-USE PATH ALONG SOUTH SHOULDER OF WEST BELTLINE FRONTAGE ROAD AND 8' TEMPORARY PEDESTRIAN/BICYCLE ACESS AND MID-BLOCK CROSSING NEAR STA 83+85 SF.

TRAFFIC

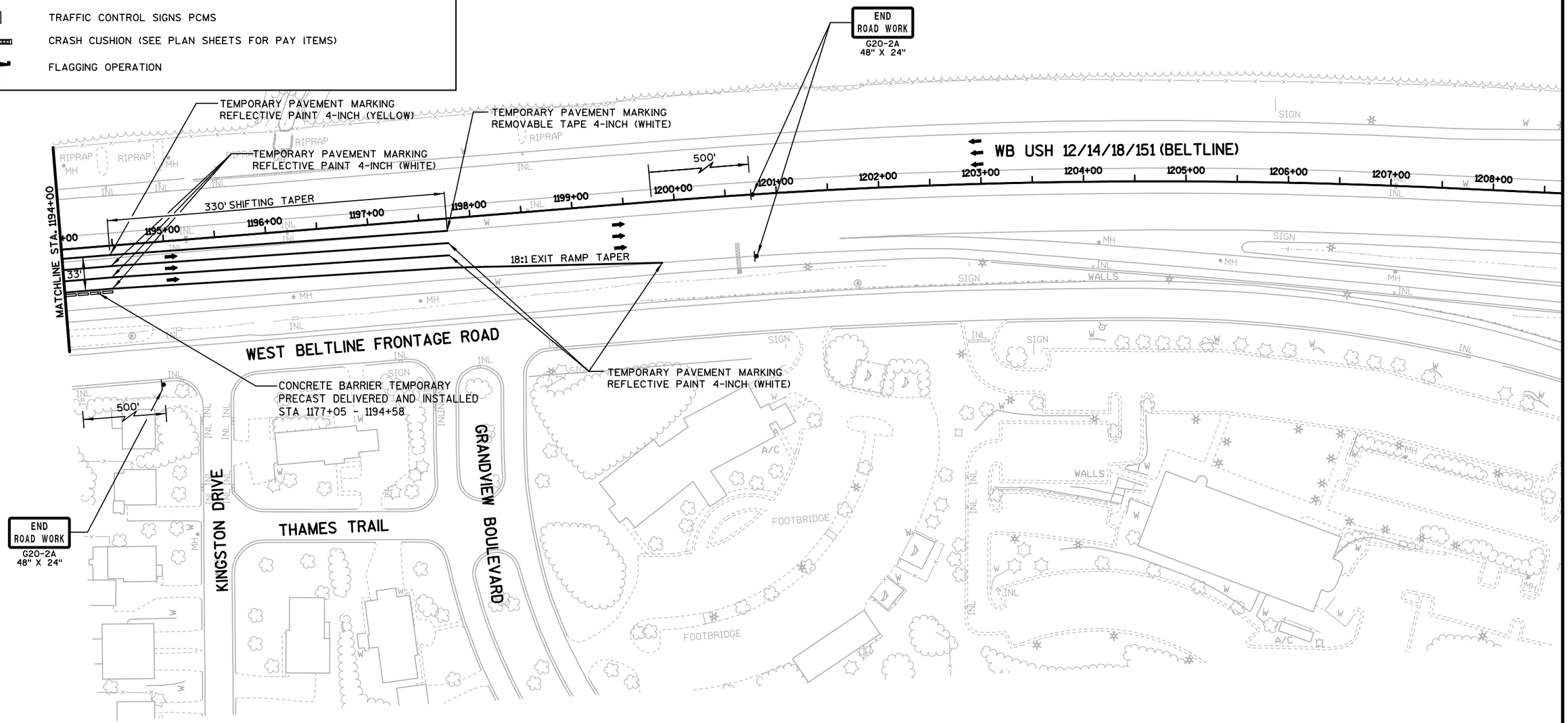
EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

WEST BELTLINE FRONTAGE ROAD ON EXISTING PAVEMENT.

OFF-PEAK FLAGGING OPERATIONS REQUIRED TO MAINTAIN EB AND WB WEST BELTLINE FRONTAGE ROAD AND BICYCLE TRAFFIC AT ALL TIMES.

N

2



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 1	SHEET 509	E

2

N

ROAD WORK AHEAD W20-1

END ROAD WORK C20-2A 48" X 24"

SEMINOLE HIGHWAY

WINSLOW LANE

WARWICK WAY

500'

500'

ROAD WORK AHEAD W20-1

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

CONCRETE BARRIER PRECAST 12.5-FT
STA 1165+85 - 1177+05
INSTALLED IN STAGE 1 PHASE 2 SEMINOLE
FRONTAGE ROAD CONSTRUCTION.
(NO MOVES REQUIRED THIS STAGE)

CONCRETE BARRIER TEMPORARY PRECAST
STA 1177+05 - 1194+58
INSTALLED STAGE 1 PHASE 2
(NO MOVES REQUIRED THIS STAGE)

1166+00 1167+00 1168+00 1169+00 1170+00 1171+00 1172+00 1173+00 1174+00 1175+00 1176+00 1177+00 1178+00 1179+00 1180+00

70+00 SF 71+00 SF 72+00 SF 73+00 SF 74+00 SF 75+00 SF 50' (TYP.) 77+00 SF 78+00 SF 79+00 SF 80+00 SF

1177+00 S 1178+00 S 1179+00 S 1180+00 S

MATCHLINE STA. 81+00 SF

WEST BELTLINE FRONTAGE ROAD

END ROAD WORK G20-2A 48" X 24"

500'

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

500'

TYPE III BARRICADE

R11-2 48" X 30" ROAD CLOSED

TYPE III BARRICADE

R11-2(MOD) 48" X 30" LANE CLOSED

TYPE III BARRICADE

CONSTRUCTION

CONSTRUCT EB USH 12/14/18/151 AUXILLARY LANE.

CONSTRUCT STORM SEWER ALONG THE WB USH 12/14/18/151 OUTSIDE SHOULDER. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT NORTH SEGMENT OF WEST BELTLINE FRONTAGE ROAD.

CONSTURCT SIGN STRUCTURE S-13-376.

TRAFFIC

EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

WB WEST BELTLINE FRONTAGE ROAD TRAFFIC DETOURED.

MAINTAIN EB WEST BELTLINE FRONTAGE ROAD ONE-WAY TRAFFIC, OFF-PEAK FLAGGING OPERATIONS REQUIRED TO MAINTAIN WB SEMINOLE FRONTAGE ROAD BICYCLE TRAFFIC AT ALL TIMES.

SEE WEST BELTLINE FRONTAGE ROAD DETOUR SIGNING PLAN.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 2	SHEET 510	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT EB USH 12/14/18/151 AUXILLARY LANE.

CONSTRUCT STORM SEWER ALONG THE WB USH 12/14/18/151 OUTSIDE SHOULDER. SEE STORM SEWER PLAN SHEETS.

CONSTRUCT NORTH SEGMENT OF WEST BELTLINE FRONTAGE ROAD.

CONSTURCT SIGN STRUCTURE S-13-376.

TRAFFIC

EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

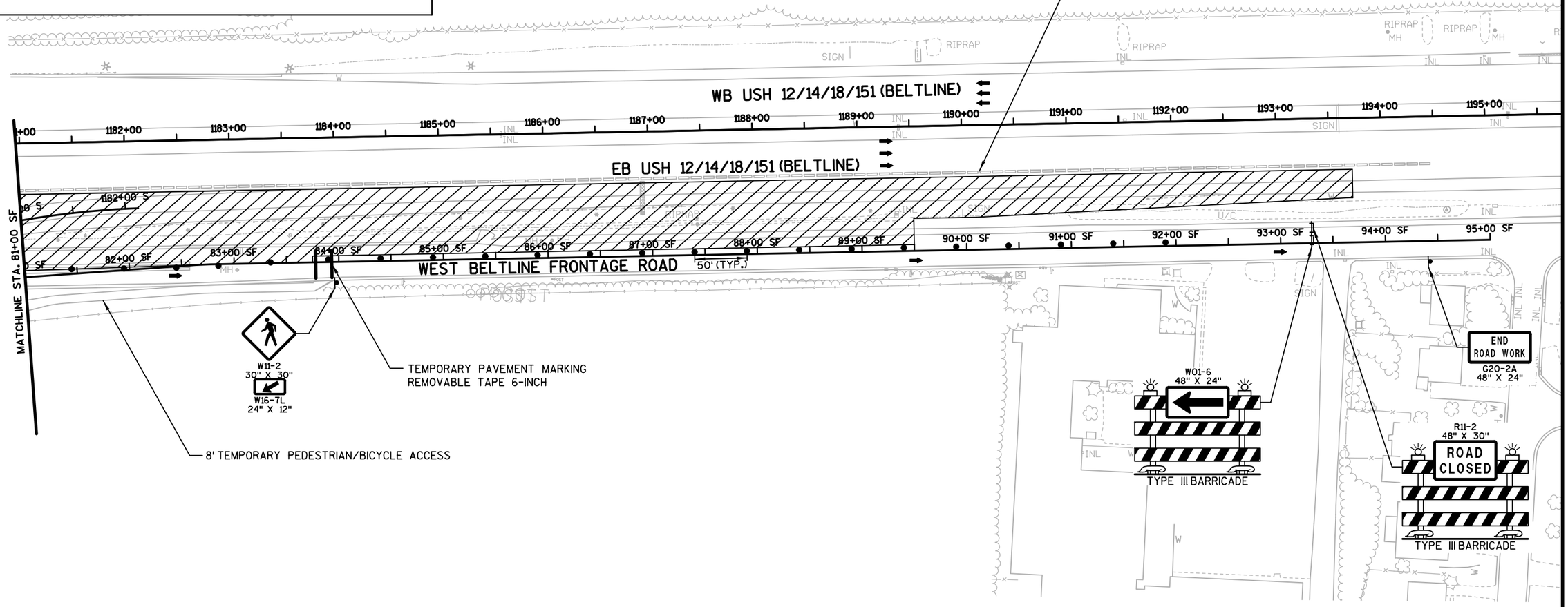
WB WEST BELTLINE FRONTAGE ROAD TRAFFIC DETOURED.

MAINTAIN EB WEST BELTLINE FRONTAGE ROAD ONE-WAY TRAFFIC, OFF-PEAK FLAGGING OPERATIONS REQUIRED TO MAINTAIN WB WEST BELTLINE FRONTAGE ROAD BICYCLE TRAFFIC AT ALL TIMES.

SEE WEST BELTLINE FRONTAGE ROAD DETOUR SIGNING PLAN.

N

2



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL-WEST BELTLINE FRONTAGE RD-STAGE 2 PHASE 2	SHEET 511	E

2

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

ROAD WORK AHEAD W20-1

END ROAD WORK C20-2A 48" X 24"

500'

WARWICK WAY

SEMINOLE HIGHWAY

WINSLOW LANE

CONCRETE BARRIER PRECAST 12.5-FT STA 1165+85 - 1177+05 INSTALLED IN STAGE 1 PHASE 2 SEMINOLE FRONTAGE ROAD CONSTRUCTION. (NO MOVES REQUIRED THIS STAGE)

R11-2(MOD) 48" X 30" RAMP CLOSED

TYPE III BARRICADE

TYPE III BARRICADE

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

15:1 TAPER

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED STA 1177+05 - 1177+56

RELOCATING CONCRETE BARRIER PRECAST 12.5-FT STA 1175+00 - 1177+05

MATCHLINE STA. 81+00 SF

WEST BELTLINE FRONTAGE ROAD

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

50' (TYP.)

R11-2 48" X 30" ROAD CLOSED

TYPE III BARRICADE

TYPE III BARRICADE

CONSTRUCTION

CONSTRUCT SOUTH SEGMENT OF WEST BELTLINE FRONTAGE ROAD.

TRAFFIC

EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

WB WEST BELTLINE FRONTAGE ROAD TRAFFIC DETOURED.

MAINTAIN EB WEST BELTLINE FRONTAGE ROAD ONE-WAY TRAFFIC.

SEE WEST BELTLINE FRONTAGE ROAD DETOUR SIGNING PLAN.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 3	SHEET 512	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT SOUTH SEGMENT OF WEST BELTLINE FRONTAGE ROAD.

TRAFFIC

EB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

WB WEST BELTLINE FRONTAGE ROAD TRAFFIC DETOURED.

MAINTAIN EB WEST BELTLINE FRONTAGE ROAD ONE-WAY TRAFFIC.

SEE WEST BELTLINE FRONTAGE ROAD DETOUR SIGNING PLAN.

N

W01-6
48" X 24"
TYPE III BARRICADE

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

MATCHLINE STA. 81+00 SF

1182+00 S

82+00 SF 83+00 SF 84+00 SF 85+00 SF 86+00 SF 87+00 SF 88+00 SF 89+00 SF 90+00 SF 91+00 SF 92+00 SF 93+00 SF 94+00 SF 95+00 SF

WEST BELTLINE FRONTAGE ROAD

50' (TYP.)

W11-2
30" X 30"
W16-7R
24" X 12"

END
ROAD WORK
G20-2A
48" X 24"

R11-2
48" X 30"
ROAD
CLOSED
TYPE III BARRICADE

RIPRAP MH RIPRAP MH RIPRAP SIGN

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SEMINOLE FRONTAGE ROAD - STAGE 2 PHASE 3	SHEET 513	E

2

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT WARWICK WAY AND STORM SEWER. SEE STORM SEWER PLAN SHEETS.

TRAFFIC

WARWICK WAY CLOSED TO THROUGH TRAFFIC.

N

WHENONA DRIVE

DONCASTER DRIVE

WARWICK WAY

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

PLAYGROUND

R11-4
60" X 30"
ROAD CLOSED TO THRU TRAFFIC
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1

500'

END ROAD WORK
G20-2A
48" X 24"

50+00 WW
51+00 WW
52+00 WW
53+00 WW
54+00 WW
55+00 WW
56+00 WW
57+00 WW
58+00 WW
59+00 WW
60+00 WW
61+00

200'

1150+00
1151+00
1152+00
1153+00
1154+00
1155+00
1156+00
1157+00
1158+00
1159+00
1160+00
1161+00
1162+00
1163+00
1164+00
1165+00
1166+00

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - WARWICK WAY	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026170_s1_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

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LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
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- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

REMOVING ASPHALTIC SURFACE MILLING AND HMA PAVING MEDIAN SHOULDER.

1. INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG WB USH 12/14/18/151 6' FROM EXISTING OUTSIDE SHOULDER. (NIGHTTIME LANE CLOSURE REQUIRED.)

TRAFFIC

USH 12/14/18/151 MAINLINE ON EXISTING PAVEMENT.

NIGHTTIME LANE CLOSURE REQUIRED.

N

2

END ROAD WORK
G20-2A
48" X 24"

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

WEST BELTLINE FRONTAGE ROAD

1185+00 1186+00 1187+00 1188+00 1189+00 1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197+00 1198+00 1199+00 1200

100' (TYP.) 100' (TYP.) 500' 24'

MATCHLINE STA. 1200+00

RIVERBEND ROAD KINGSTON DRIVE THAMES TRAIL GRANDVIEW BOULEVARD

RIPRAP SIGN INL W MH U/C A/C FOOT

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SAND & TRASH COLLECTOR - STAGE 1 PHASE 1	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026180_s1_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

REMOVING ASPHALTIC SURFACE MILLING AND HMA PAVING MEDIAN SHOULDER.

1. INSTALL CONCRETE BARRIER TEMPORARY PRECAST AND TEMPORARY CRASH CUSHION ALONG WB USH 12/14/18/151 6'FROM EXISTING OUTSIDE SHOULDER. (NIGHTTIME LANE CLOSURE REQUIRED.)

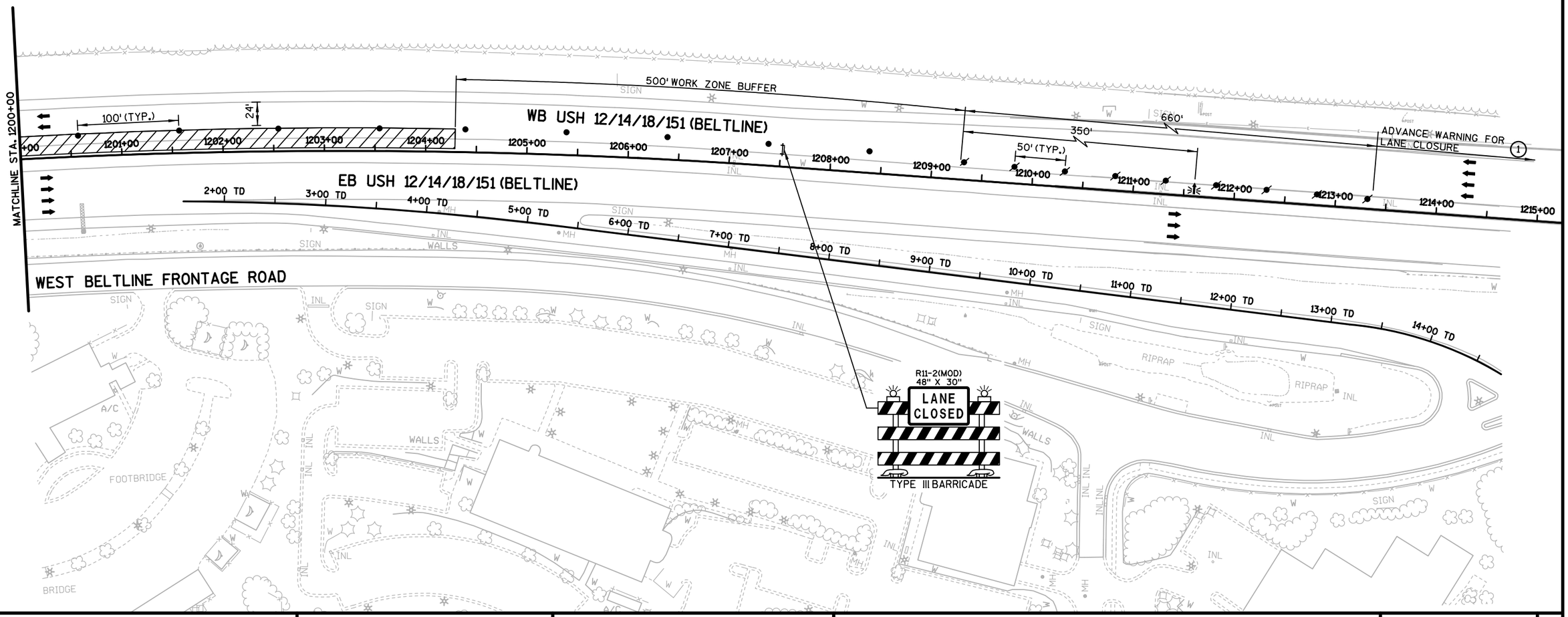
TRAFFIC

USH 12/14/18/151 MAINLINE ON EXISTING PAVEMENT.

NIGHTTIME LANE CLSOSURE REQUIRED.

N

2



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - SAND & TRASH COLLECTOR - STAGE 1 PHASE 1	SHEET 516	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT SHOULDER ACCESS TO SAND AND TRASH COLLECTOR ALONG WB USH 12/14/18/151.

CONSTRUCT SAND AND TRASH COLLECTOR.

CONSTRUCT STORM SEWER.

CONSTRUCT MSE WALLS R-13-244/245.

TRAFFIC

WB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

NIGHTTIME LANE CLOSURES REQUIRED FOR MATERIAL DELIVERIES.

N

2

CONCRETE BARRIER TEMPORARY PRECAST
DELIVERED AND INSTALLED
STA 1192+19 - 1199+36

END ROAD WORK
G20-2A
48" X 24"

495' SHIFTING TAPER

WB USH 12/14/18/151 (BELTLINE)

MATCHLINE STA. 1197+00

1184+00 1185+00 1186+00 1187+00 1188+00 1189+00 1190+00 1191+00 1192+00 1193+00 1194+00 1195+00 1196+00 1197

500'

36' (3 LANES @ 12')

33' (3 LANES @ 11')

EB USH 12/14/18/151 (BELTLINE)

WEST BELTLINE FRONTAGE ROAD

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

TEMPORARY PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH (WHITE)

TEMPORARY PAVEMENT MARKING
REFLECTIVE TAPE 4-INCH (YELLOW)

W01-4C

RIVERBEND ROAD

KINGSTON DRIVE

THAMES TRAIL

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL-SAND & TRASH COLLECTOR-STAGE 2 PHASE 1	SHEET 517	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026182_s2_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT SHOULDER ACCESS TO SAND AND TRASH COLLECTOR ALONG WB USH 12/14/18/151.

CONSTRUCT SAND AND TRASH COLLECTOR.

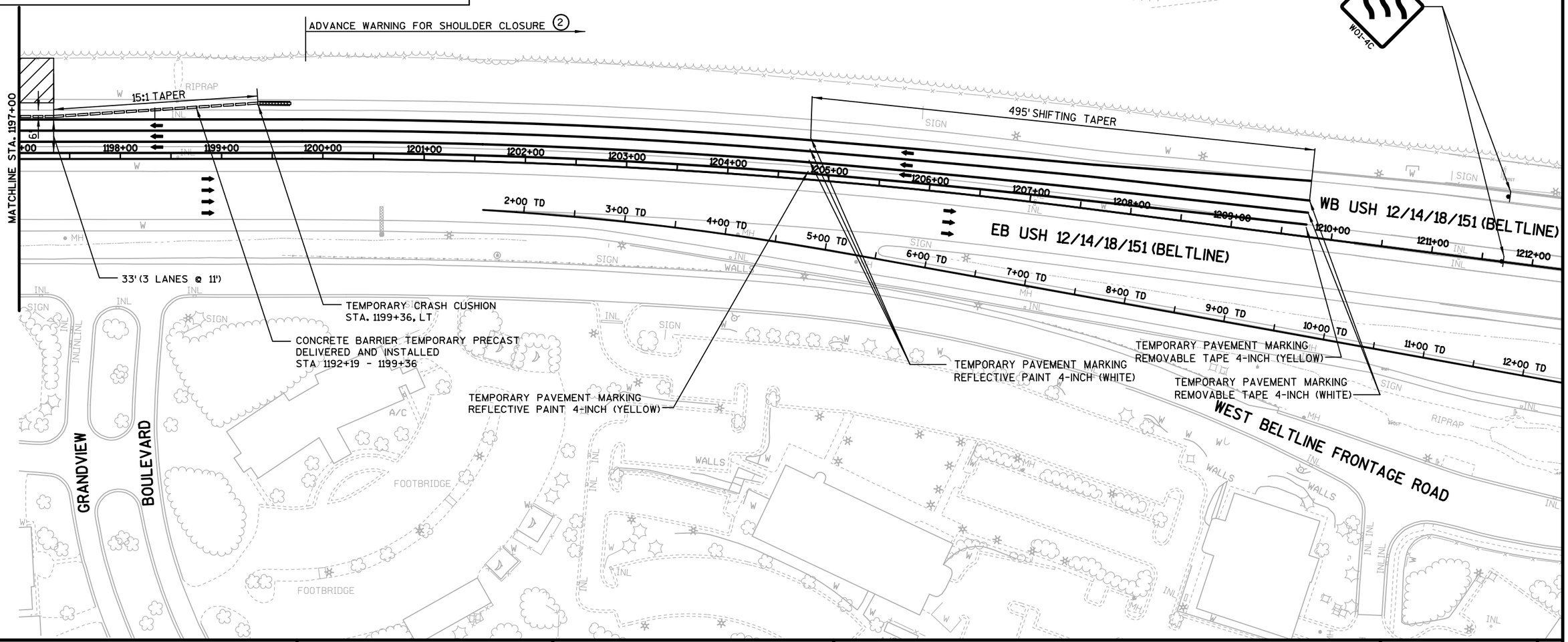
CONSTRUCT STORM SEWER.

CONSTRUCT MSE WALLS R-13-244/245.

TRAFFIC

WB USH 12/14/18/151 SHIFTED TO MEDIAN ON EXISTING PAVEMENT.

NIGHTTIME LANE CLOSURES REQUIRED FOR MATERIAL DELIVERIES.



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL-SAND & TRASH COLLECTOR-STAGE 2 PHASE 1	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026183_s2_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

CONSTRUCTION

CONSTRUCT STORM SEWER ALONG TODD DRIVE.

CONSTRUCT BARRIER WALL AND PAVEMENT REMOVED DURING STORM SEWER CONSTRUCTION.

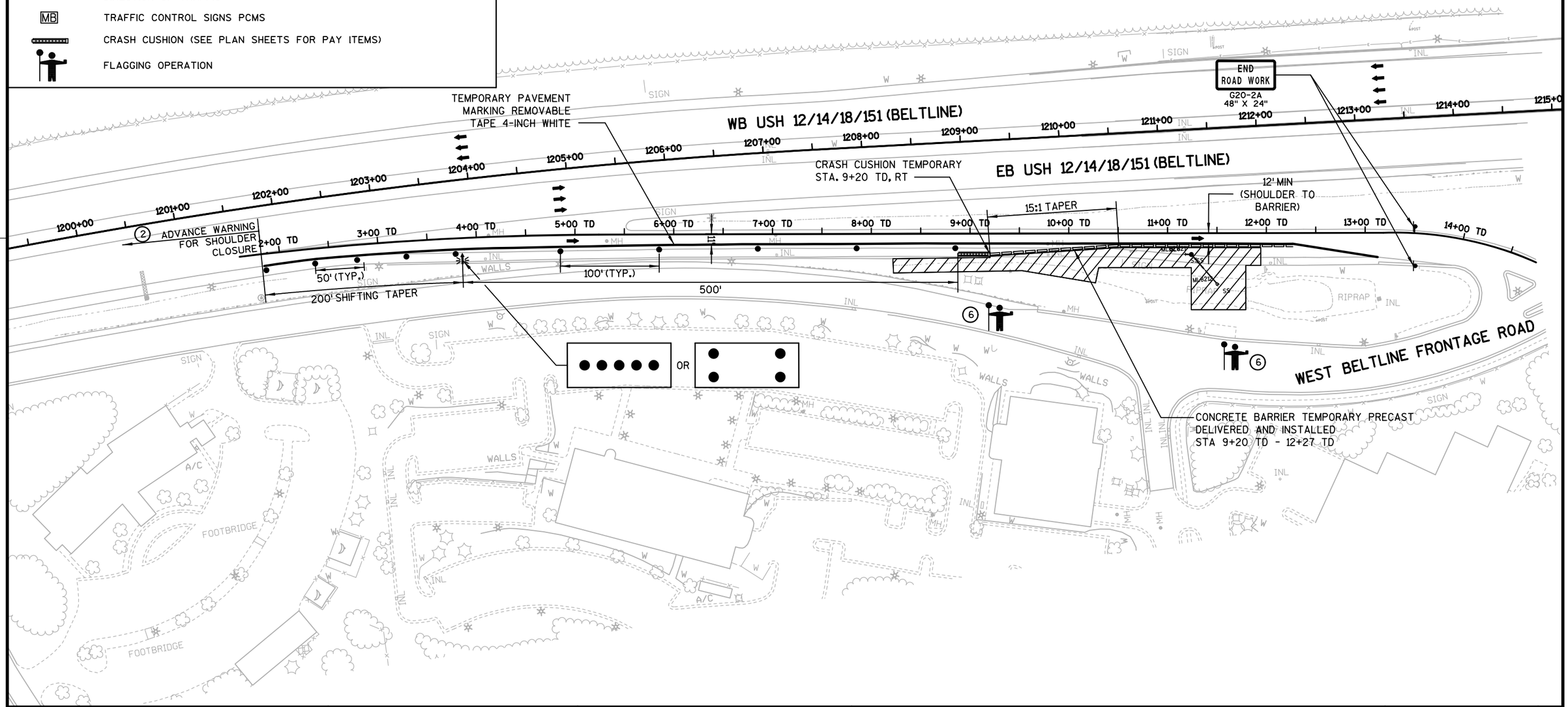
CONSTRUCT CONCRETE WEIR WALL 6 1/2-INCH AT STA. 9+79 TD, RT.

TRAFFIC

EB TODD DRIVE EXIT TRAFFIC ON EXISTING PAVEMENT.

FLAGGING OPERATION REQUIRED TO MAINTAIN EB AND WB BELTLINE FRONTAGE ROAD AND BICYCLE TRAFFIC DURING PLACEMENT OF FINISHING ITEMS.

N



2

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - TODD DRIVE STORM SEWER - STAGE 1 PHASE 1	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026190_s1_p1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

CONSTRUCTION

TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC AND OVERLAY
EXISTING WB USH 18/151 (MEDIAN LANE)

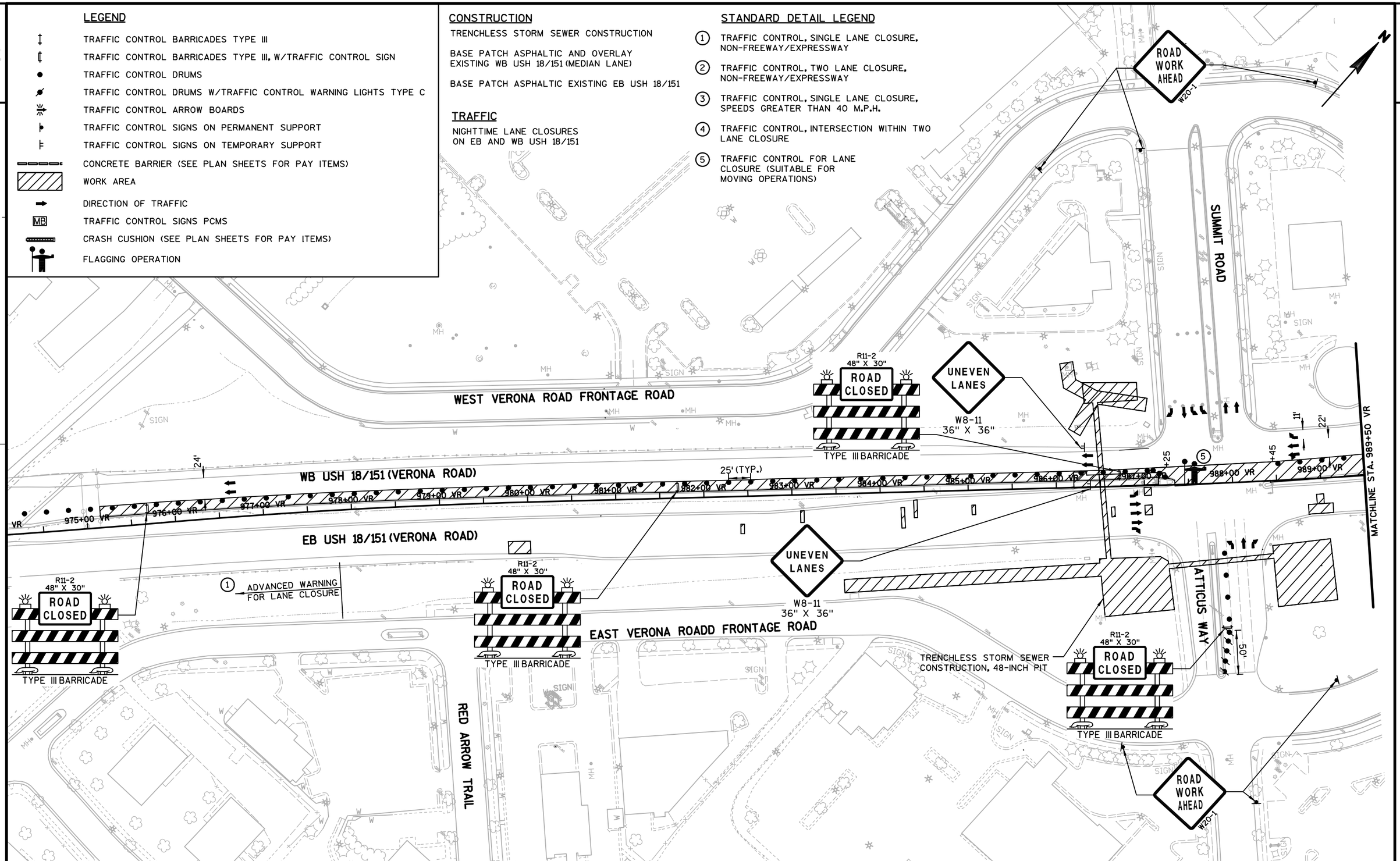
BASE PATCH ASPHALTIC EXISTING EB USH 18/151

TRAFFIC

NIGHTTIME LANE CLOSURES
ON EB AND WB USH 18/151

STANDARD DETAIL LEGEND

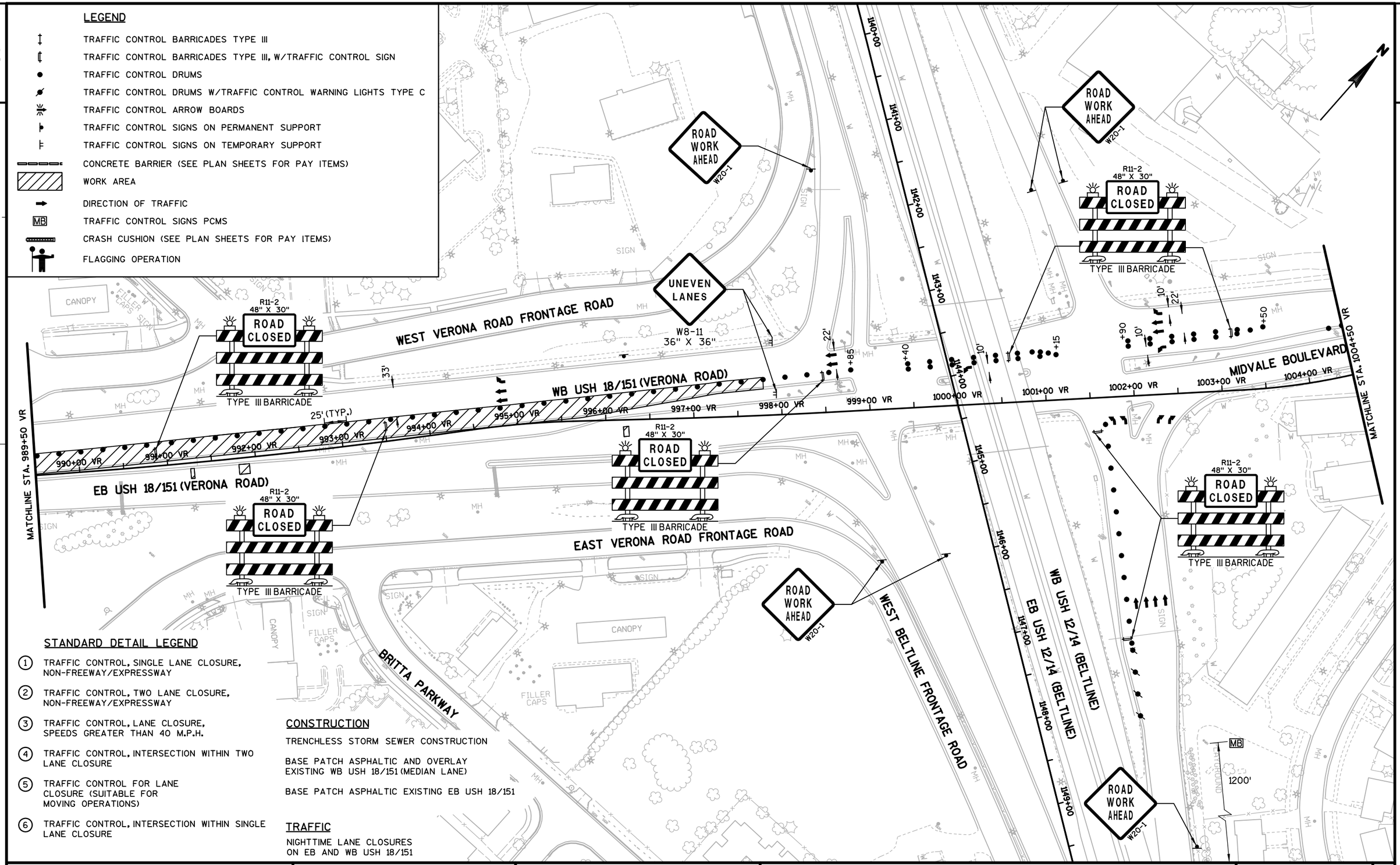
1. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
2. TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
3. TRAFFIC CONTROL, SINGLE LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
4. TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
5. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 1A	SHEET 520	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
2. TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
3. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
4. TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
5. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
6. TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

CONSTRUCTION

TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC AND OVERLAY EXISTING WB USH 18/151 (MEDIAN LANE)

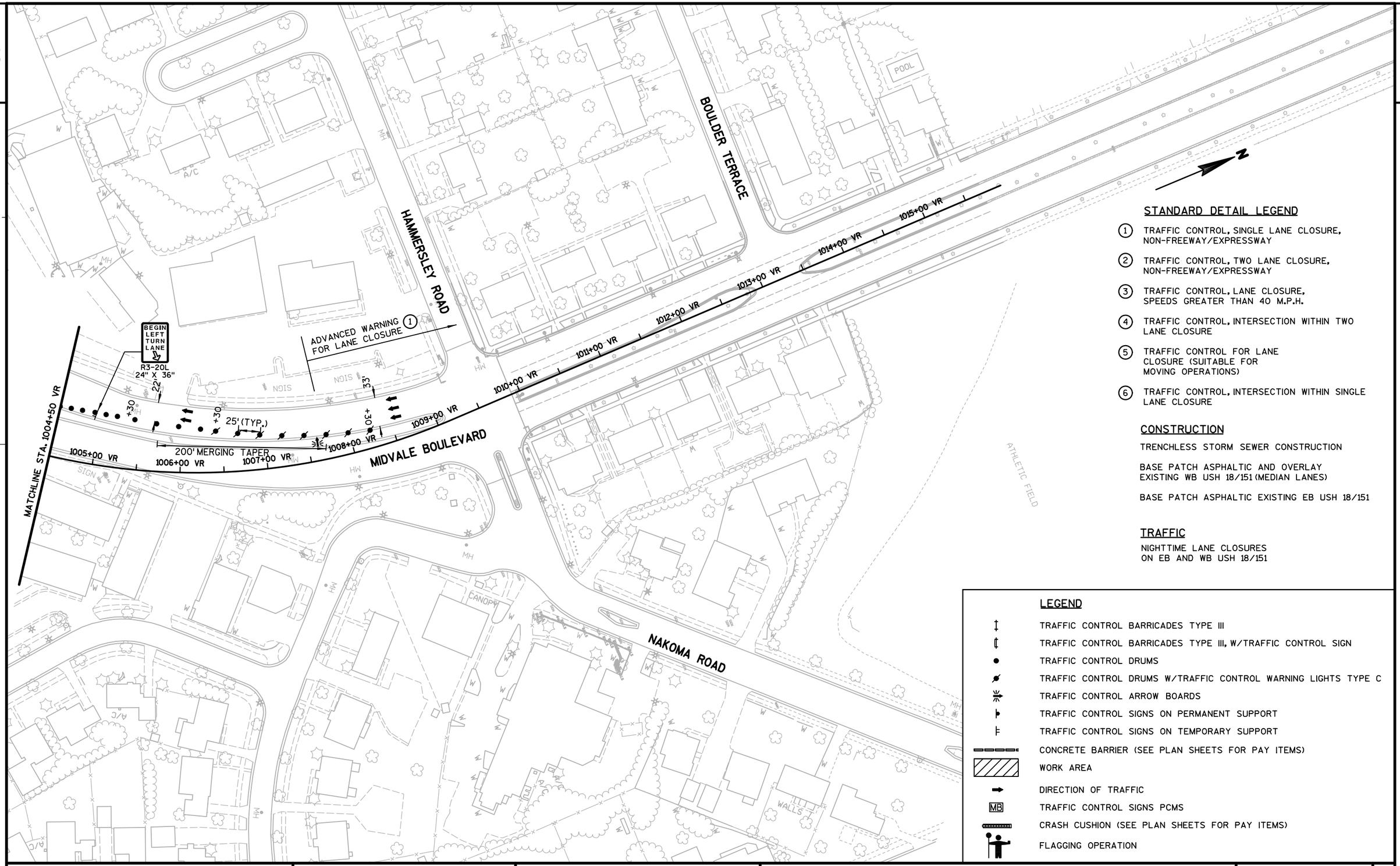
BASE PATCH ASPHALTIC EXISTING EB USH 18/151

TRAFFIC

NIGHTTIME LANE CLOSURES ON EB AND WB USH 18/151

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 1A	SHEET 521 E

2



STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
2. TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
3. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
4. TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
5. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
6. TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

CONSTRUCTION

TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC AND OVERLAY EXISTING WB USH 18/151 (MEDIAN LANES)

BASE PATCH ASPHALTIC EXISTING EB USH 18/151

TRAFFIC

NIGHTTIME LANE CLOSURES ON EB AND WB USH 18/151

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 1A	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026202_vr_s1_p1a.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

CONSTRUCTION

TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC AND OVERLAY EXISTING WB USH 18/151 (2 OUTSIDE LANES)

BASE PATCH ASPHALTIC EXISTING EB USH 18/151

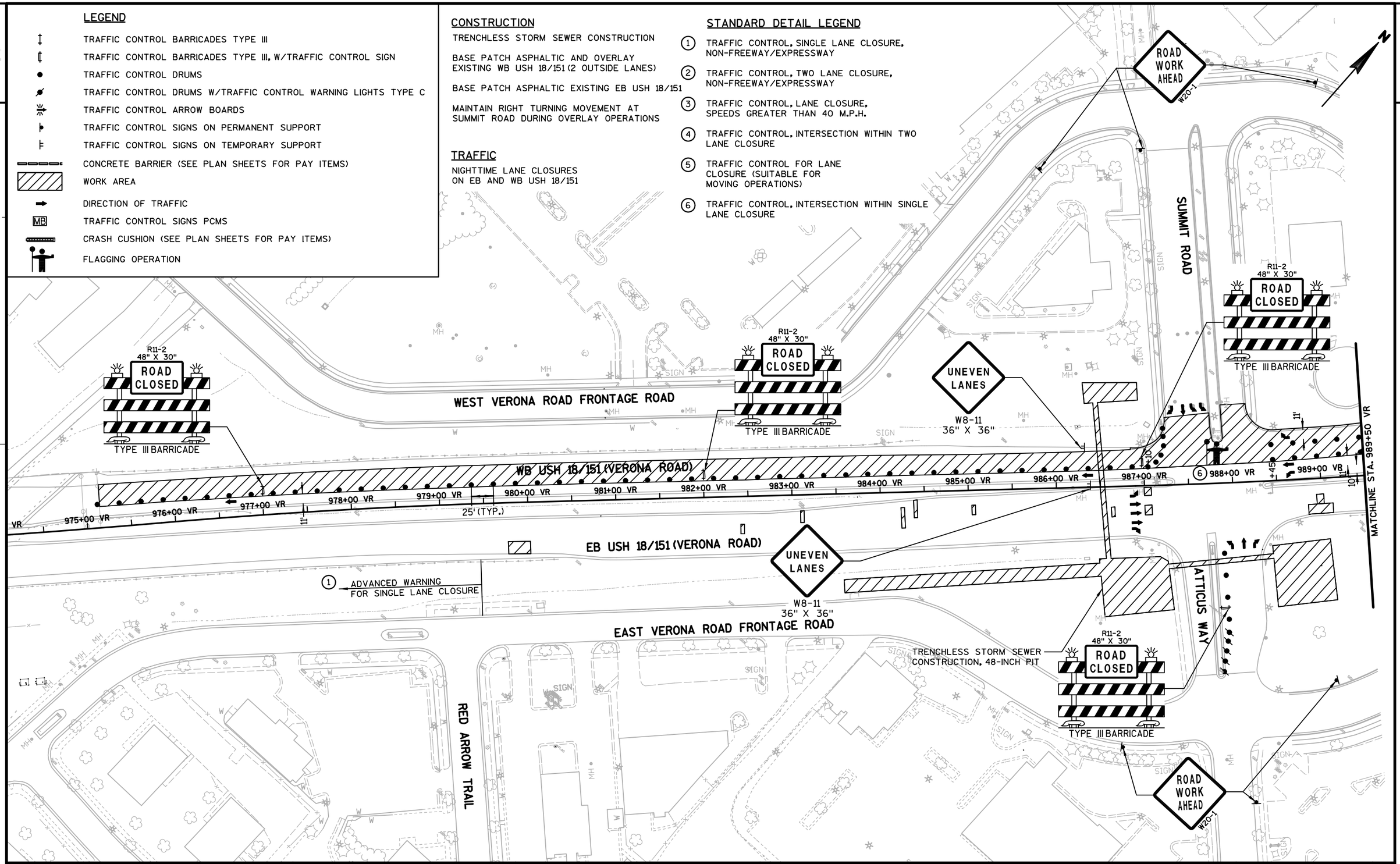
MAINTAIN RIGHT TURNING MOVEMENT AT SUMMIT ROAD DURING OVERLAY OPERATIONS

TRAFFIC

NIGHTTIME LANE CLOSURES ON EB AND WB USH 18/151

STANDARD DETAIL LEGEND

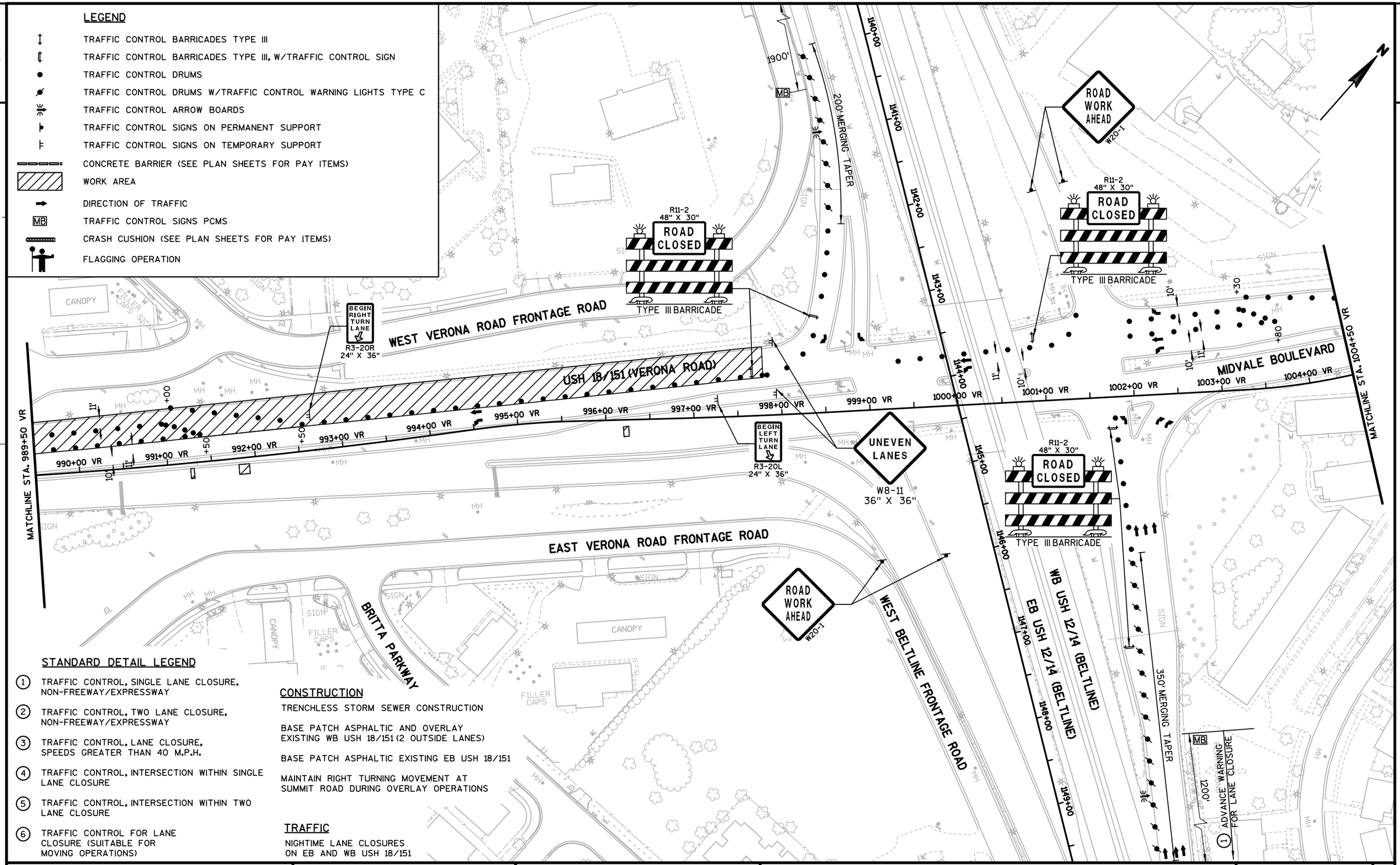
1. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
2. TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
3. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
4. TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
5. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
6. TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 1B	SHEET 523	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
2. TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
3. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
4. TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
5. TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

CONSTRUCTION

TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC AND OVERLAY EXISTING WB USH 18/151 (2 OUTSIDE LANES)

BASE PATCH ASPHALTIC EXISTING EB USH 18/151

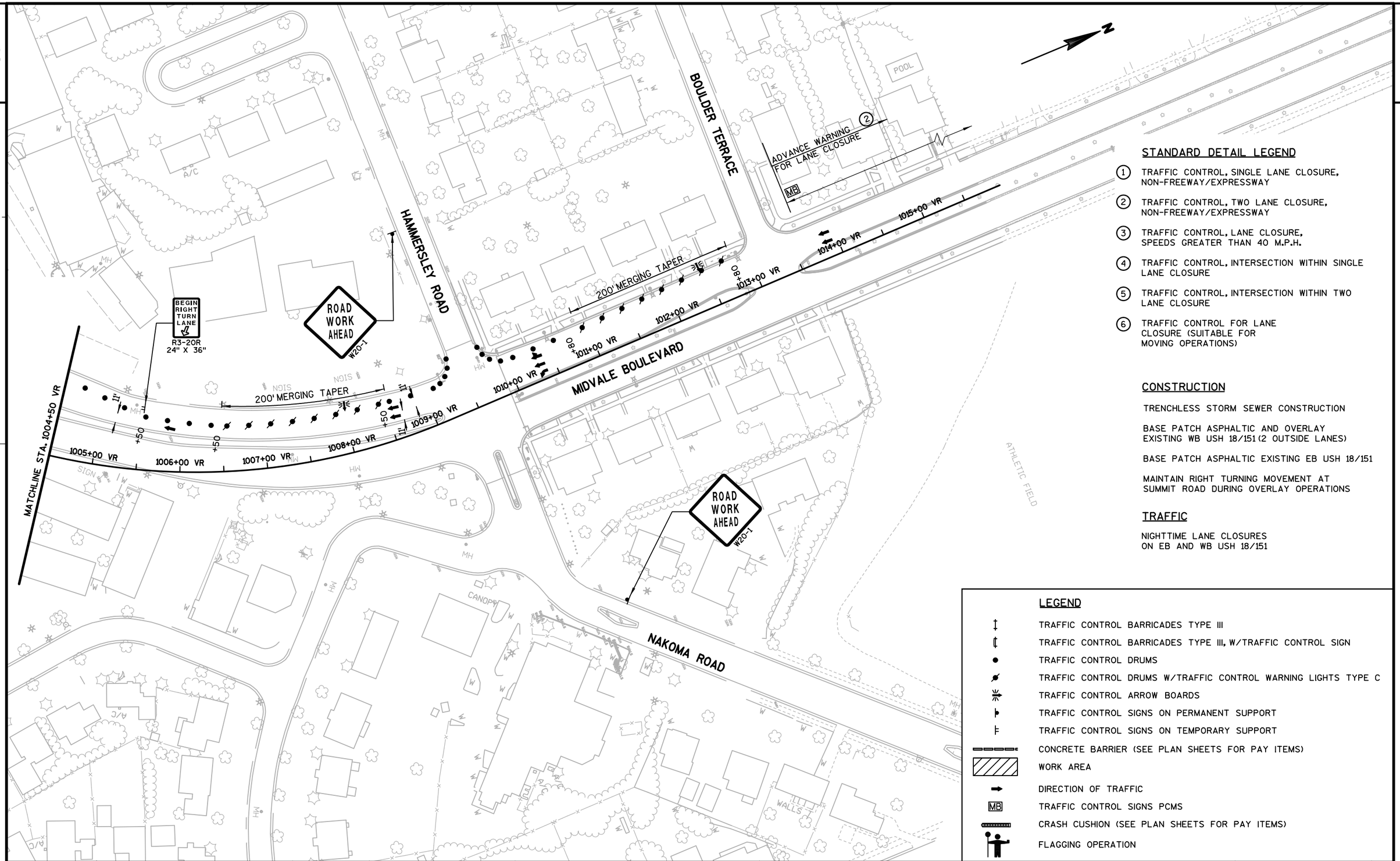
MAINTAIN RIGHT TURNING MOVEMENT AT SUMMIT ROAD DURING OVERLAY OPERATIONS

TRAFFIC

NIGHTIME LANE CLOSURES ON EB AND WB USH 18/151

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 1B	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026204_vr_s1_p1b.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
2. TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
3. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
4. TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
5. TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

CONSTRUCTION

TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC AND OVERLAY EXISTING WB USH 18/151 (2 OUTSIDE LANES)

BASE PATCH ASPHALTIC EXISTING EB USH 18/151

MAINTAIN RIGHT TURNING MOVEMENT AT SUMMIT ROAD DURING OVERLAY OPERATIONS

TRAFFIC

NIGHTTIME LANE CLOSURES ON EB AND WB USH 18/151

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 1B	SHEET 525	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

CONSTRUCTION

TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC EXISTING EB USH 18/151

CONSTRUCT WB USH 18/151 WIDENING

INSTALL PERMANENT PAVEMENT MARKINGS FOR OVERLAYED WB USH 18/151 & AT PATCHES FOR EB USH 18/151

MOVE BARRIER WALL TO FINAL LOCATION

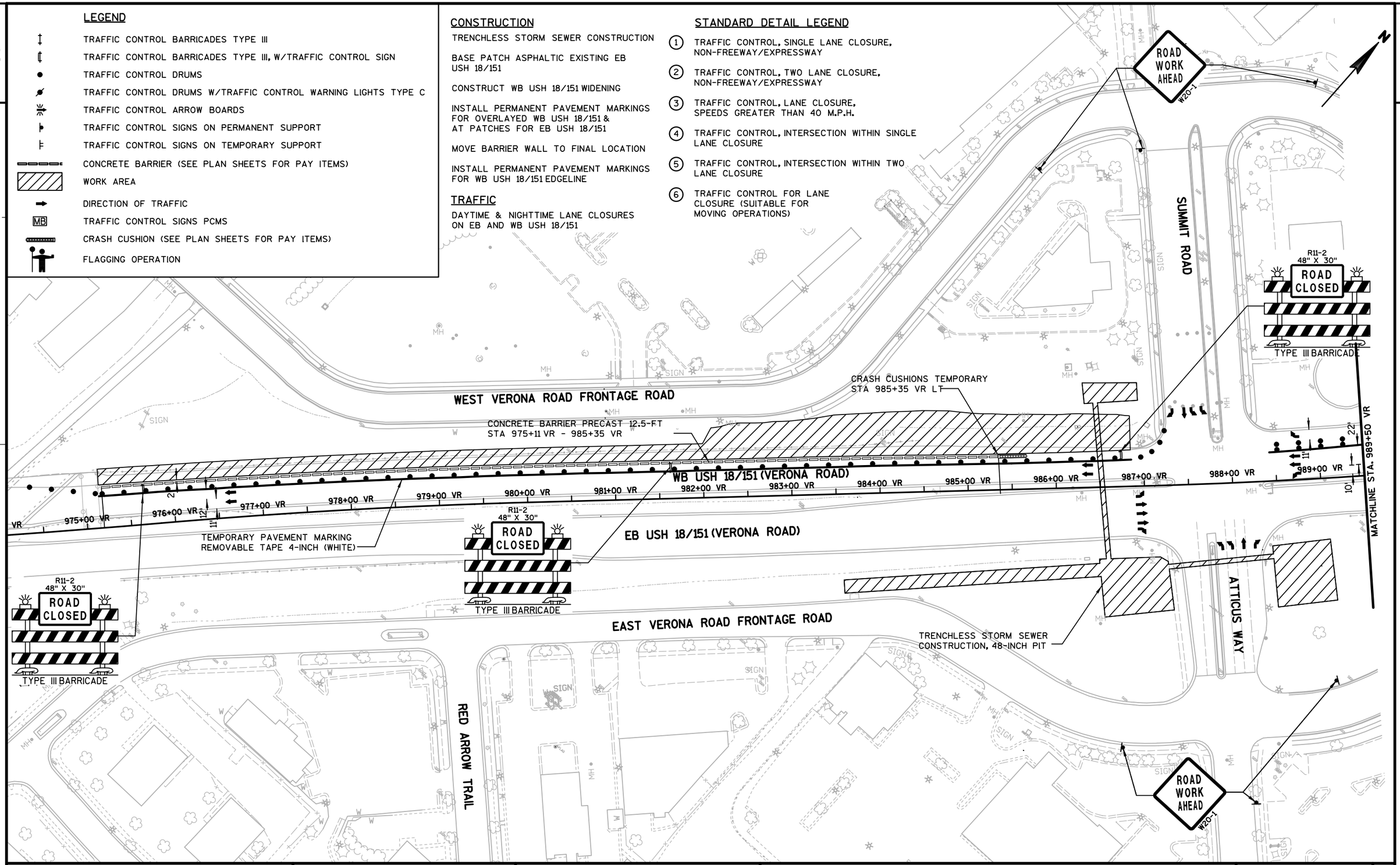
INSTALL PERMANENT PAVEMENT MARKINGS FOR WB USH 18/151 EDGELINE

TRAFFIC

DAYTIME & NIGHTTIME LANE CLOSURES ON EB AND WB USH 18/151

STANDARD DETAIL LEGEND

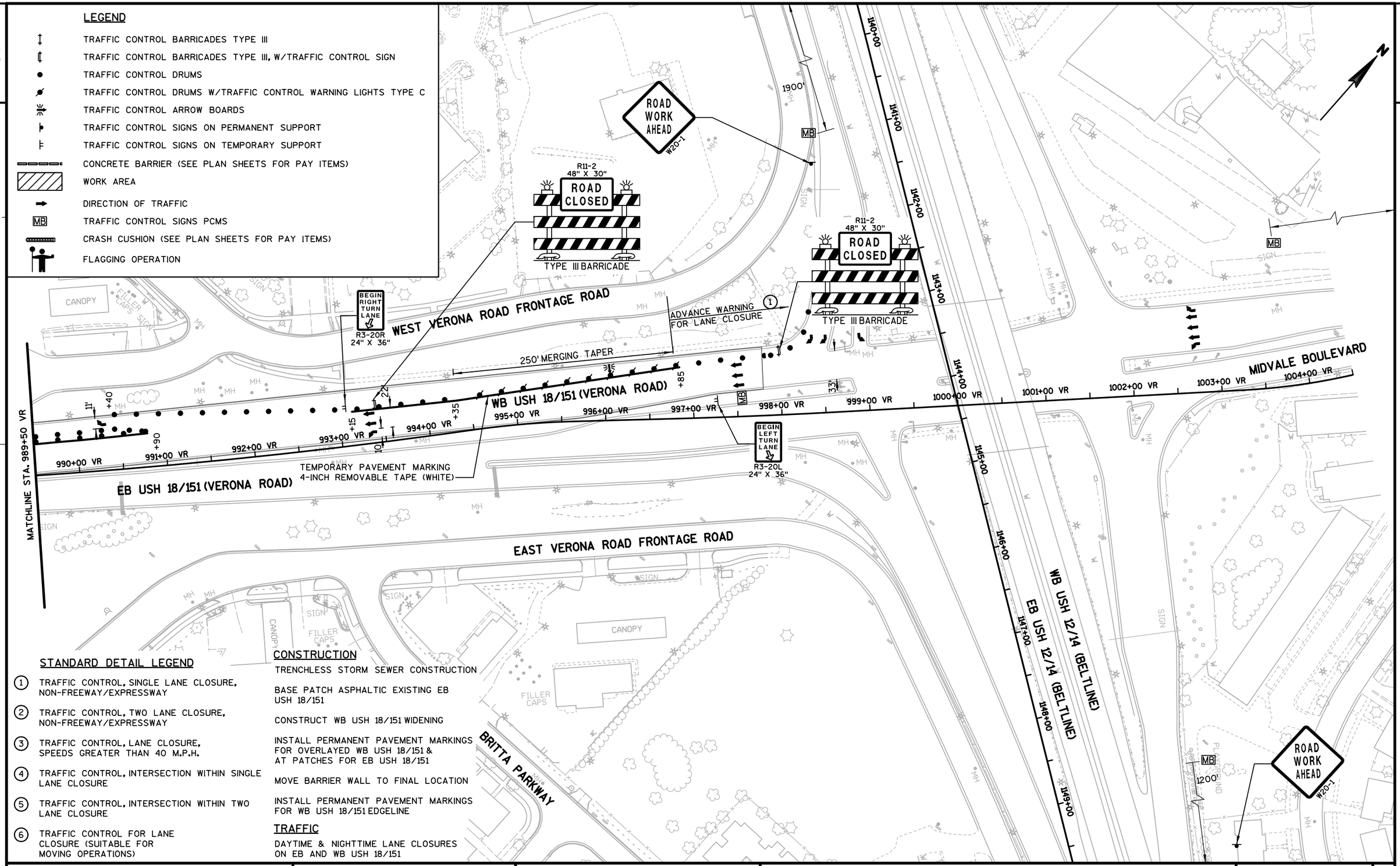
1. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
2. TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
3. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
4. TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
5. TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 VERONA ROAD - STAGE 1 PHASE 2A	SHEET 526	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
2. TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
3. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
4. TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
5. TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

CONSTRUCTION

TRENCHLESS STORM SEWER CONSTRUCTION

BASE PATCH ASPHALTIC EXISTING EB USH 18/151

CONSTRUCT WB USH 18/151 WIDENING

INSTALL PERMANENT PAVEMENT MARKINGS FOR OVERLAYED WB USH 18/151 & AT PATCHES FOR EB USH 18/151

MOVE BARRIER WALL TO FINAL LOCATION

INSTALL PERMANENT PAVEMENT MARKINGS FOR WB USH 18/151 EDGELINE

TRAFFIC

DAYTIME & NIGHTTIME LANE CLOSURES ON EB AND WB USH 18/151

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 2A	SHEET 527	E

LEGEND

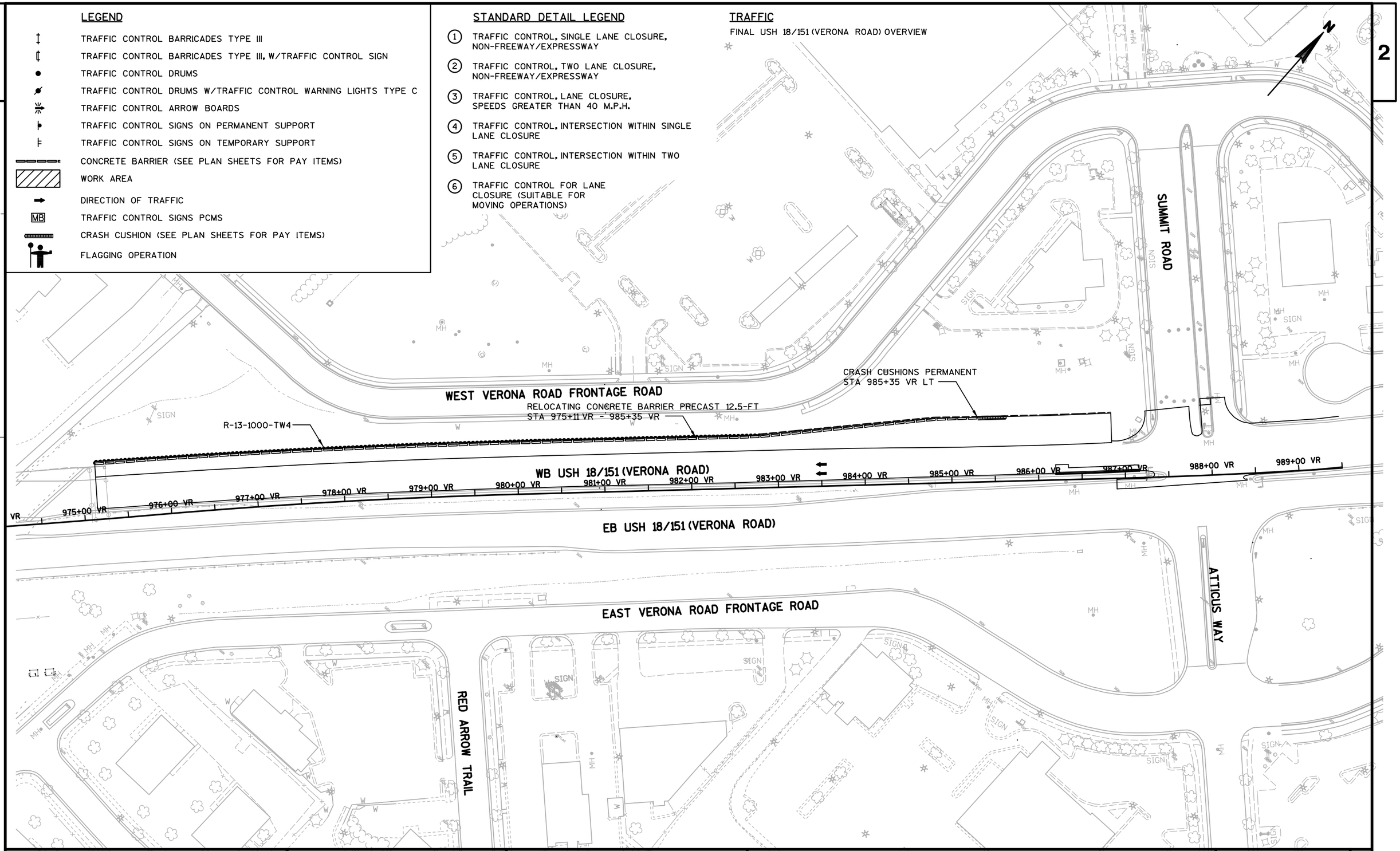
- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
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- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
2. TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
3. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
4. TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
5. TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

TRAFFIC

FINAL USH 18/151 (VERONA ROAD) OVERVIEW



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 1 PHASE 2B	SHEET 528	E

CONSTRUCTION

CONSTRUCT WET DETENSION BASIN A AND CONNECTION INTO EXISTING STORM SEWER STRUCTURE

CONSTRUCT RETAINING WALL R-13-204

INSTALL STORM SEWER TRUNKLINE SEE STORM SEWER PLAN SHEETS

INSTALL WATER MAIN UNDER FREEPORT CONNECTION

CONSTRUCT U-HAUL PARKING LOT NEAR DETENSION BASIN A

SEE TRAFFIC CONTROL SHEET FOR SIDEWALK DETOUR

R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC TYPE III BARRICADE

R11-4 60" X 30" ROAD CLOSED TO THRU TRAFFIC TYPE III BARRICADE

R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

TEMPORARY DRAINAGE FOR SIDEWALK REQUIRED (SEE STORM SEWER PLAN SHEETS)

WEST VERONA ROAD FRONTAGE ROAD

EAST VERONA ROAD FRONTAGE ROAD

SOUTHWEST COMMUTER BIKE PATH

ALLIED DRIVE

WB USH 18/ 151 (VERONA ROAD)

EB USH 18/ 151 (VERONA ROAD)

TRAFFIC

VERONA ROAD WEST FRONTAGE ROAD CLOSURE

FLAGGING OPERATIONS ON ALLIED DRIVE/EAST VERONA ROAD FRONTAGE ROAD

MAINTAIN ACCESS TO SOUTHWEST COMMUTER BIKE PATH DURING WATER MAIN CONSTRUCTION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES
4. DETOUR SIGNING FOR MAINLINE CLOSURES
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 2 PHASE 1	SHEET 529	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES
4. DETOUR SIGNING FOR MAINLINE CLOSURES
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

CONSTRUCTION

CONSTRUCT WET DETENSION BASIN A AND CONNECTION INTO EXISTING STORM SEWER STRUCTURE

CONSTRUCT RETAINING WALL R-13-204

INSTALL STORM SEWER TRUNKLINE SEE STORM SEWER PLAN SHEETS

INSTALL WATER MAIN UNDER FREEPORT CONNECTION

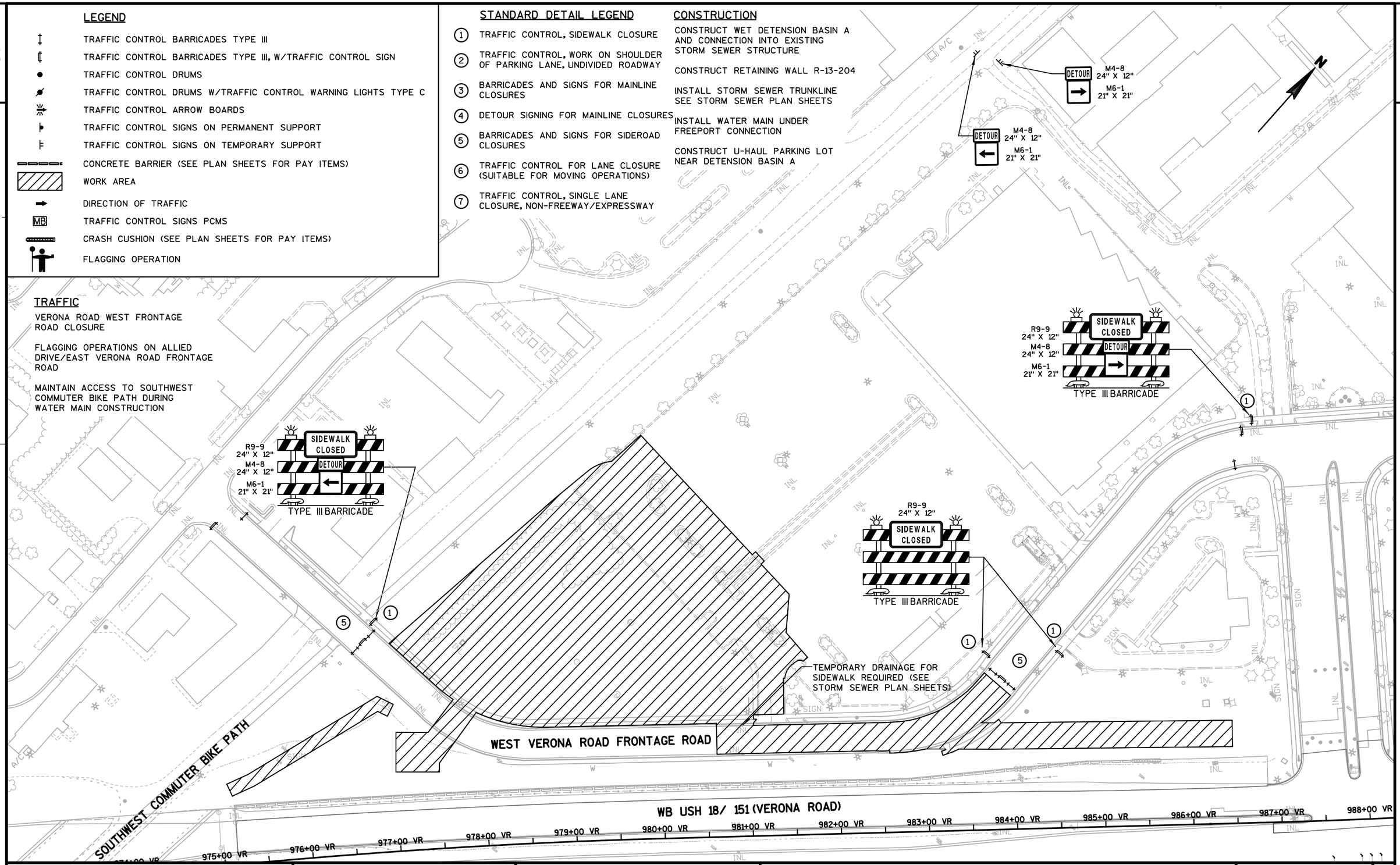
CONSTRUCT U-HAUL PARKING LOT NEAR DETENSION BASIN A

TRAFFIC

VERONA ROAD WEST FRONTAGE ROAD CLOSURE

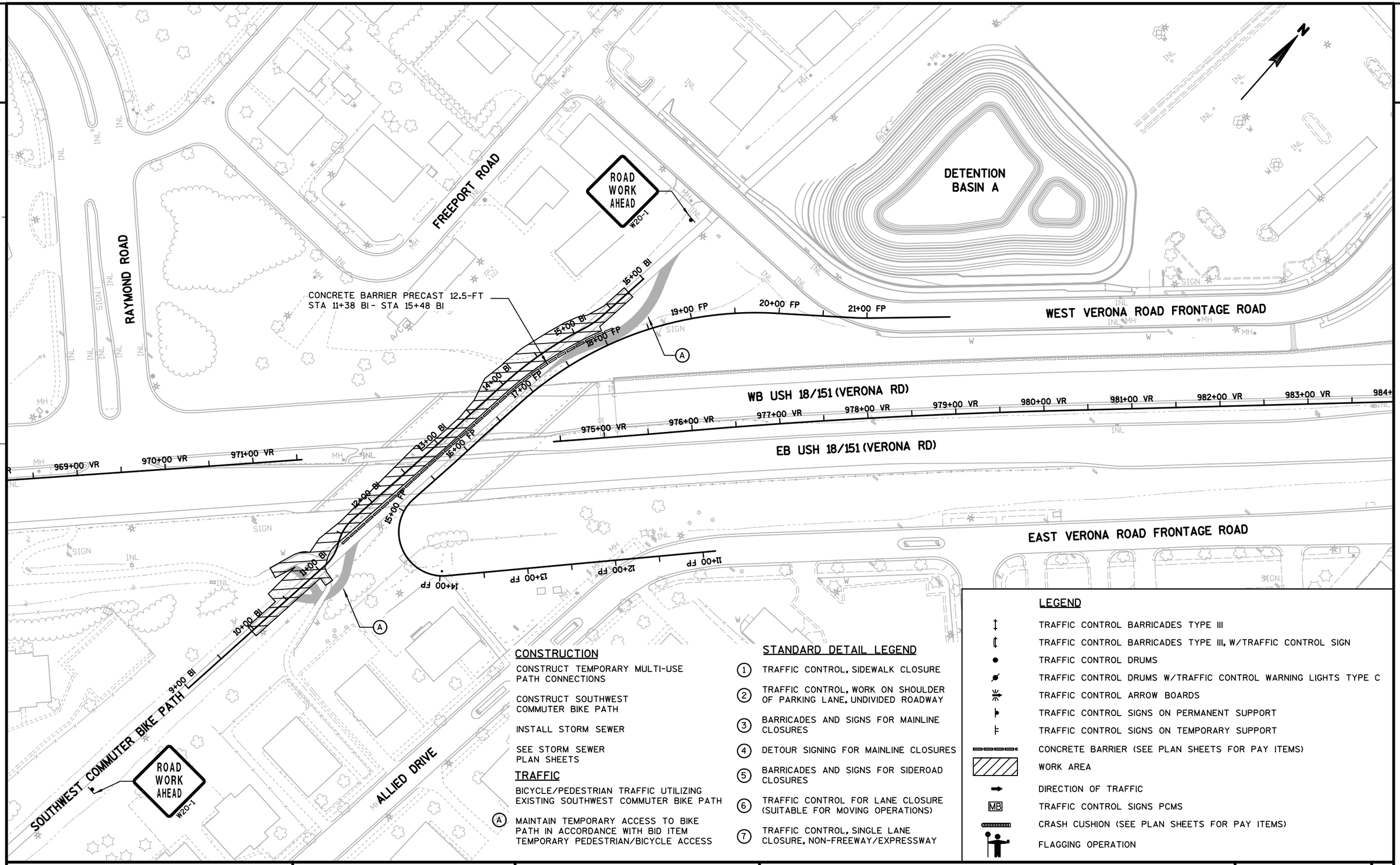
FLAGGING OPERATIONS ON ALLIED DRIVE/EAST VERONA ROAD FRONTAGE ROAD

MAINTAIN ACCESS TO SOUTHWEST COMMUTER BIKE PATH DURING WATER MAIN CONSTRUCTION



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 2 PHASE 1	SHEET 530	E

2



CONSTRUCTION

CONSTRUCT TEMPORARY MULTI-USE PATH CONNECTIONS

CONSTRUCT SOUTHWEST COMMUTER BIKE PATH

INSTALL STORM SEWER

SEE STORM SEWER PLAN SHEETS

TRAFFIC

BICYCLE/PEDESTRIAN TRAFFIC UTILIZING EXISTING SOUTHWEST COMMUTER BIKE PATH

(A) MAINTAIN TEMPORARY ACCESS TO BIKE PATH IN ACCORDANCE WITH BID ITEM TEMPORARY PEDESTRIAN/BICYCLE ACCESS

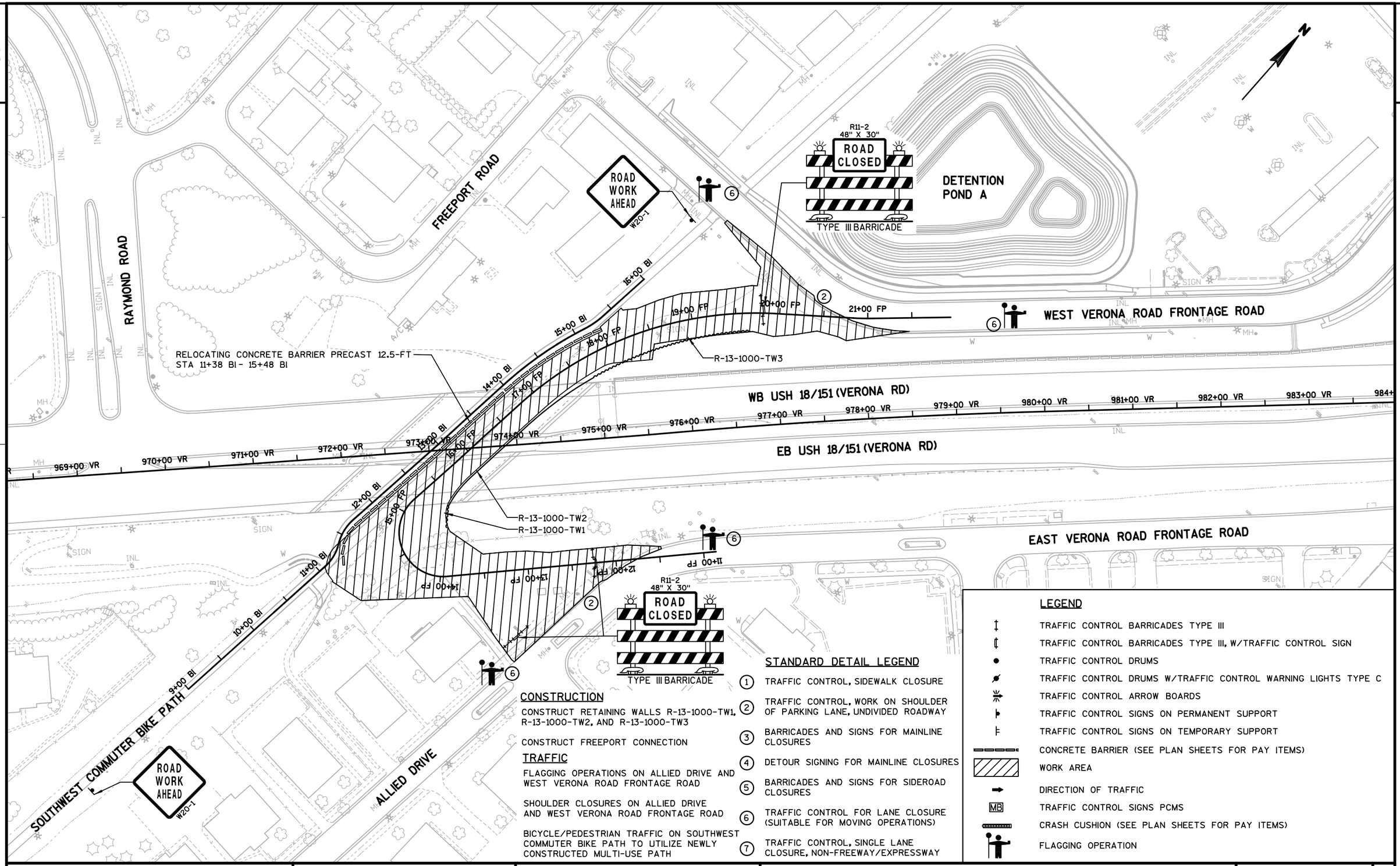
STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES
4. DETOUR SIGNING FOR MAINLINE CLOSURES
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 3 PHASE 1	SHEET 531	E



CONSTRUCTION

CONSTRUCT RETAINING WALLS R-13-1000-TW1, R-13-1000-TW2, AND R-13-1000-TW3

CONSTRUCT FREEPORT CONNECTION

TRAFFIC

FLAGGING OPERATIONS ON ALLIED DRIVE AND WEST VERONA ROAD FRONTAGE ROAD

SHOULDER CLOSURES ON ALLIED DRIVE AND WEST VERONA ROAD FRONTAGE ROAD

BICYCLE/PEDESTRIAN TRAFFIC ON SOUTHWEST COMMUTER BIKE PATH TO UTILIZE NEWLY CONSTRUCTED MULTI-USE PATH

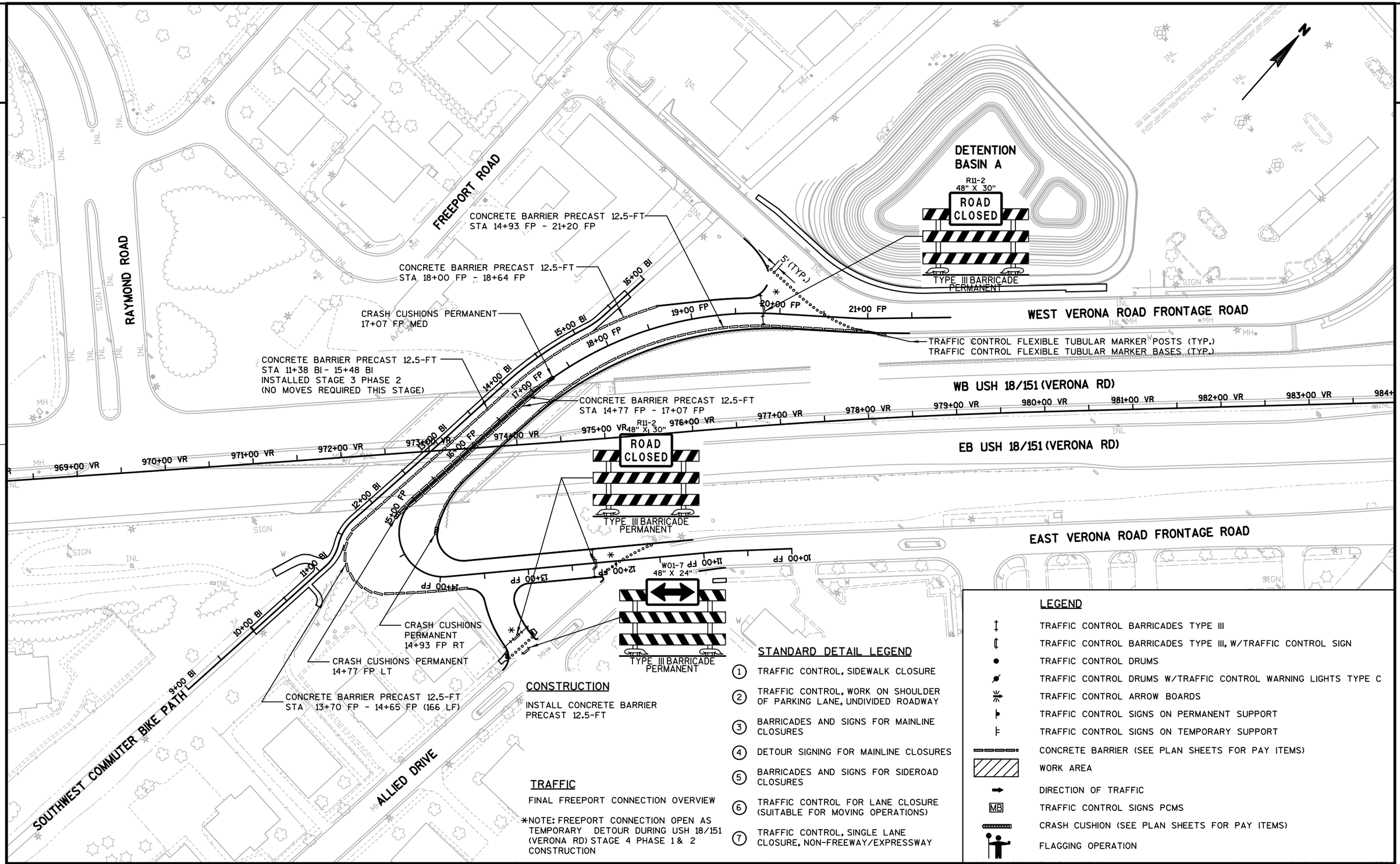
STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES
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5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

LEGEND

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- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
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- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
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- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL USH 18/151 (VERONA ROAD) - STAGE 3 PHASE 2	SHEET 532	E



CONSTRUCTION

INSTALL CONCRETE BARRIER PRECAST 12.5-FT

TRAFFIC

FINAL FREEPORT CONNECTION OVERVIEW

*NOTE: FREEPORT CONNECTION OPEN AS TEMPORARY DETOUR DURING USH 18/151 (VERONA RD) STAGE 4 PHASE 1 & 2 CONSTRUCTION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES
4. DETOUR SIGNING FOR MAINLINE CLOSURES
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
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- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 3 PHASE 3	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026223_vr_s3.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
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- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES
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6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

CONSTRUCTION

INSTALL STORM SEWER ACROSS EB SUMMIT ROAD

SEE STORM SEWER PLAN SHEETS

TRAFFIC

NIGHTTIME TRAFFIC DETOUR ON FREEPORT CONNECTION FOR ACCESS TO USH 18/151 (VERONA ROAD)

FREEPORT ROAD
RAYMOND ROAD
WB USH 18/151 (VERONA ROAD)
EB USH 18/151 (VERONA ROAD)
SOUTHWEST COMMUTER BIKE PATH
ALLIED DRIVE
MATCHLINE STA. 976+00
CANOPY
FILLER CAPS
SIGN
PLAYGROUND
961+00 VR
962+00 VR
963+00 VR
964+00 VR
965+00 VR
966+00 VR
967+00 VR
968+00 VR
969+00 VR
970+00 VR
971+00 VR
972+00 VR
973+00 VR
974+00 VR
975+00 VR
976+00
3+00 BI
10+00 BI
11+00 BI
12+00 BI
14+00 FP
13+00 FP TL
12+00 FP
11+00 FP
15+00 FP
17+00 FP
18+00 FP
15+00 BI
16+00 BI
14+00 BI

STOP
R1-1
36" X 36"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1

W01-7
48" X 24"
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 4 PHASE 1	SHEET 534	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
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- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

CONSTRUCTION

INSTALL STORM SEWER ACROSS EB SUMMIT ROAD

SEE STORM SEWER PLAN SHEETS

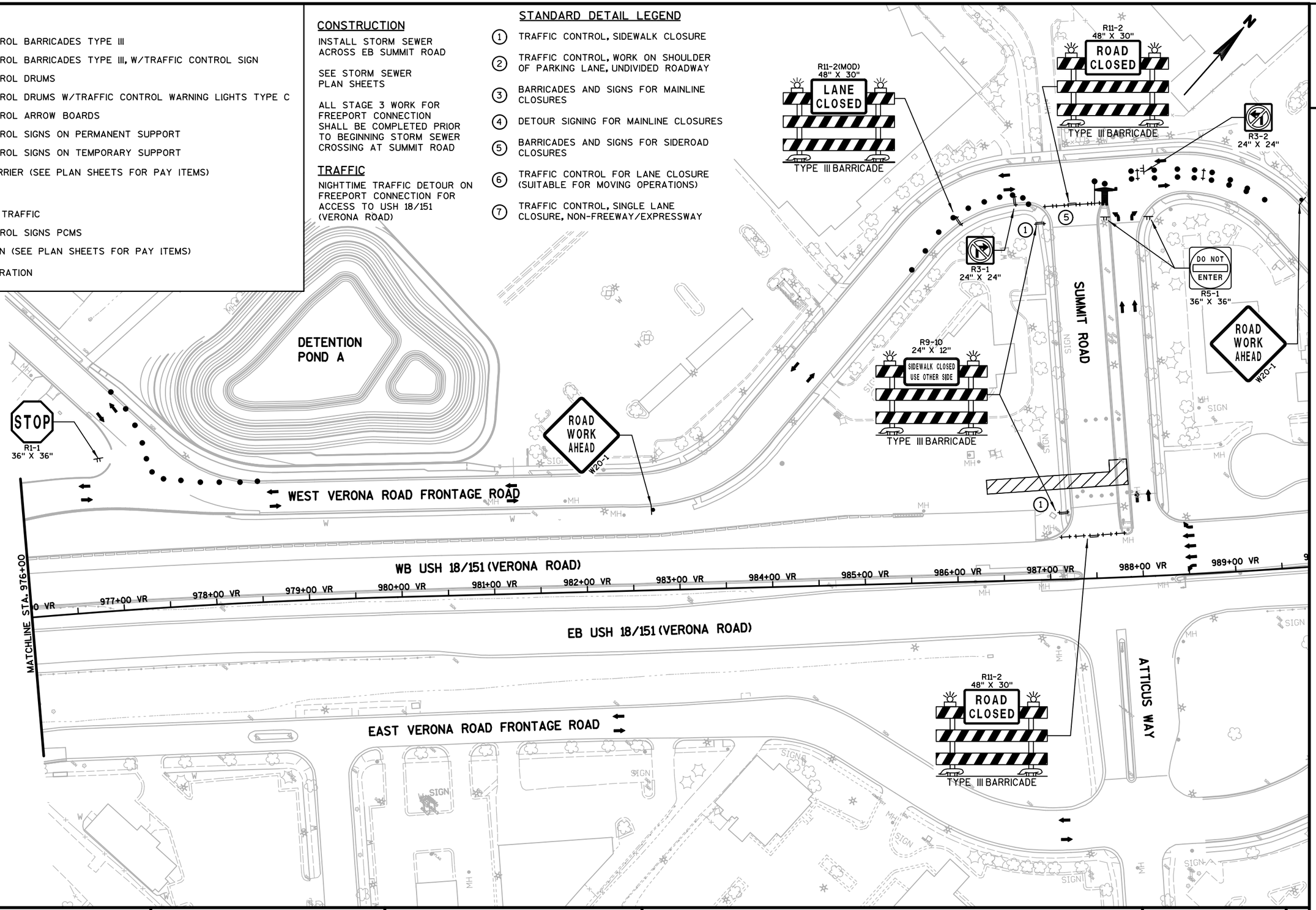
ALL STAGE 3 WORK FOR FREEPORT CONNECTION SHALL BE COMPLETED PRIOR TO BEGINNING STORM SEWER CROSSING AT SUMMIT ROAD

TRAFFIC

NIGHTTIME TRAFFIC DETOUR ON FREEPORT CONNECTION FOR ACCESS TO USH 18/151 (VERONA ROAD)

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES
4. DETOUR SIGNING FOR MAINLINE CLOSURES
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 4 PHASE 1	SHEET 535	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
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6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

CONSTRUCTION

INSTALL STORM SEWER ACROSS WB SUMMIT ROAD

SEE STORM SEWER PLAN SHEETS

TRAFFIC

NIGHTTIME TRAFFIC DETOUR USE FREEPORT CONNECTION FOR ACCESS TO USH 18/151 (VERONA ROAD) FROM WEST FRONTAGE ROAD

NB USH 18/151 (VERONA ROAD) MUST TURN RIGHT TO FREEPORT CONNECTION FOR ACCESS TO VERONA ROAD WEST FRONTAGE ROAD

FREEPORT ROAD
RAYMOND ROAD
WB USH 18/151 (VERONA ROAD)
EB USH 18/151 (VERONA ROAD)
SOUTHWEST COMMUTER BIKE PATH
EAST VERONA ROAD FRONTAGE ROAD
MATCHLINE STA. 979+00

STOP R1-1 36" X 36"
M4-8 24" X 12" DETOUR
M6-1 21" X 21"
ROAD WORK AHEAD W20-1
R11-2 48" X 30" ROAD CLOSED
TYPE III BARRICADE
W01-7 48" X 24"
TYPE III BARRICADE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 4 PHASE 2	SHEET 536	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
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- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES
4. DETOUR SIGNING FOR MAINLINE CLOSURES
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

TRAFFIC

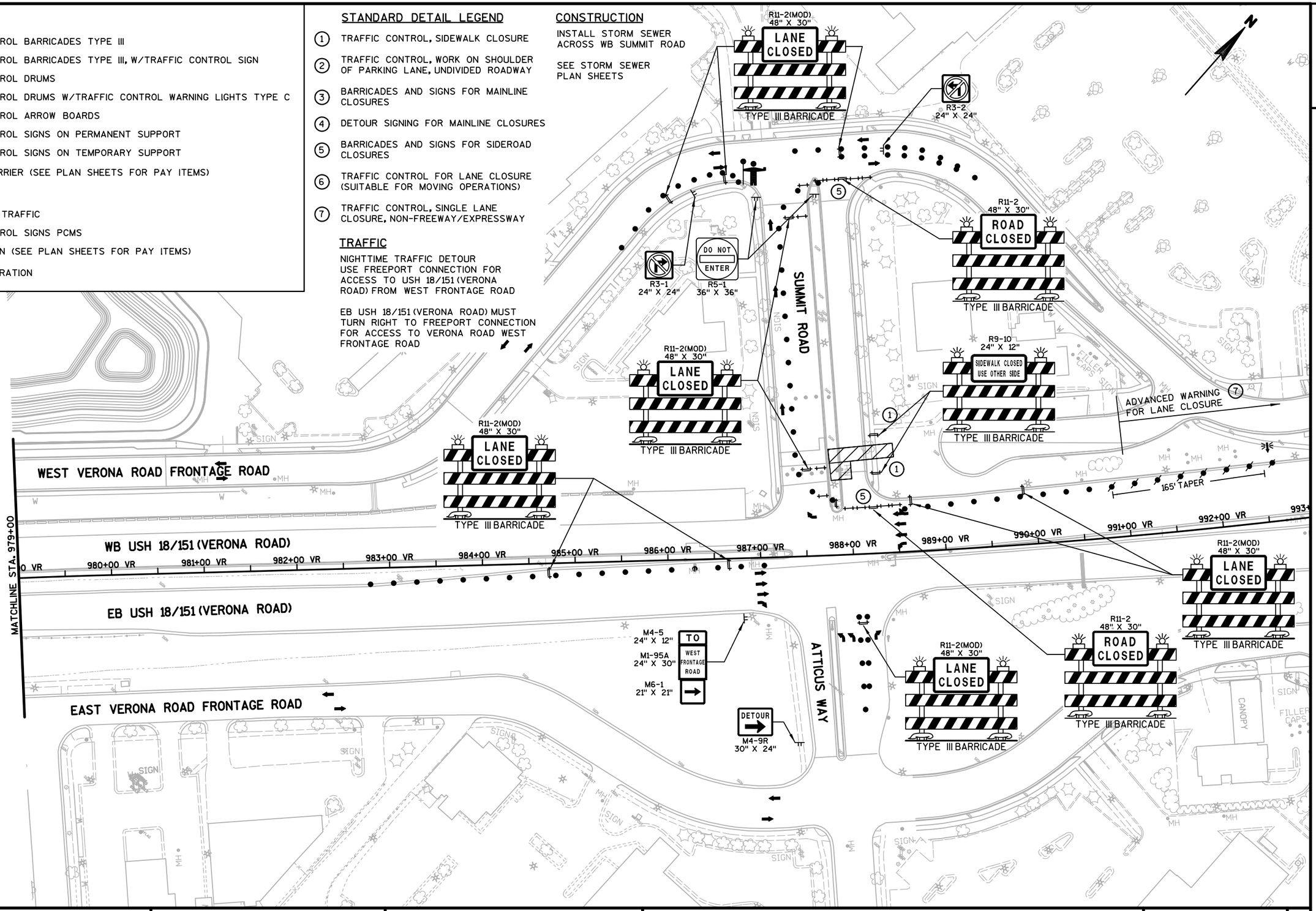
NIGHTTIME TRAFFIC DETOUR
USE FREEPORT CONNECTION FOR ACCESS TO USH 18/151 (VERONA ROAD) FROM WEST FRONTAGE ROAD

EB USH 18/151 (VERONA ROAD) MUST TURN RIGHT TO FREEPORT CONNECTION FOR ACCESS TO VERONA ROAD WEST FRONTAGE ROAD

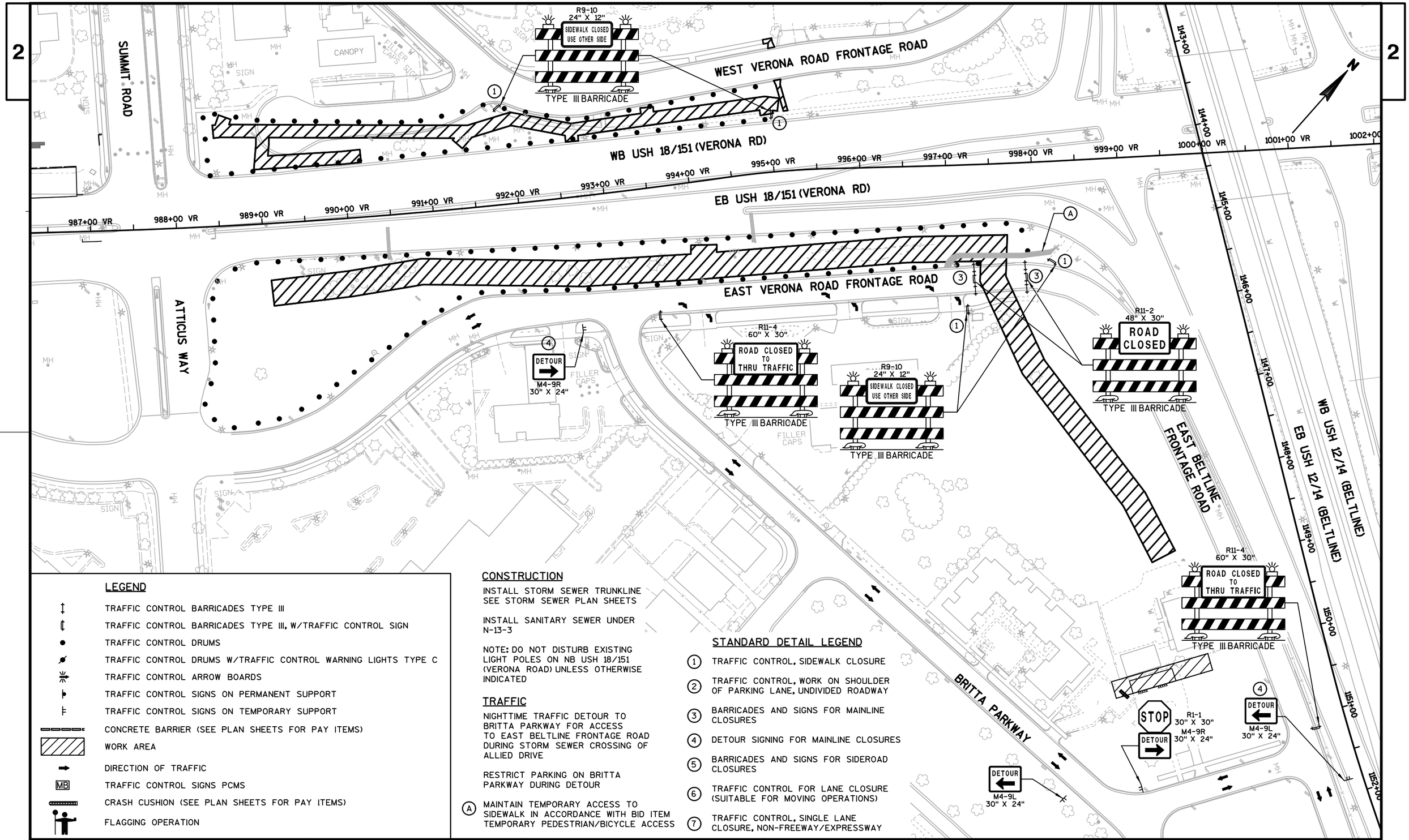
CONSTRUCTION

INSTALL STORM SEWER ACROSS WB SUMMIT ROAD

SEE STORM SEWER PLAN SHEETS



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 4 PHASE 2	SHEET 537	E



LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

CONSTRUCTION

INSTALL STORM SEWER TRUNKLINE
SEE STORM SEWER PLAN SHEETS

INSTALL SANITARY SEWER UNDER
N-13-3

NOTE: DO NOT DISTURB EXISTING LIGHT POLES ON NB USH 18/151 (VERONA ROAD) UNLESS OTHERWISE INDICATED

TRAFFIC

NIGHTTIME TRAFFIC DETOUR TO BRITTA PARKWAY FOR ACCESS TO EAST BELTLINE FRONTAGE ROAD DURING STORM SEWER CROSSING OF ALLIED DRIVE

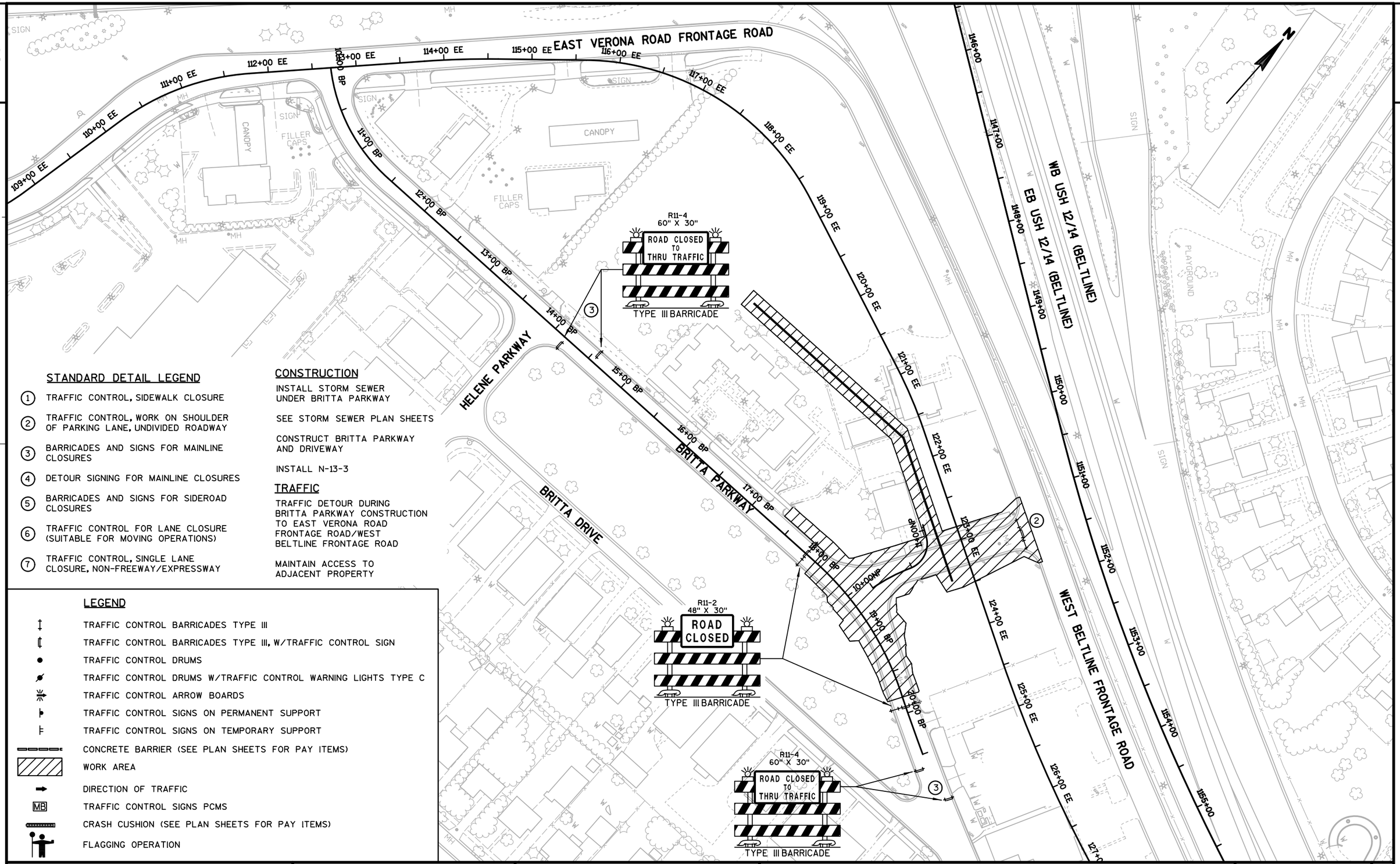
RESTRICT PARKING ON BRITTA PARKWAY DURING DETOUR

(A) MAINTAIN TEMPORARY ACCESS TO SIDEWALK IN ACCORDANCE WITH BID ITEM TEMPORARY PEDESTRIAN/BICYCLE ACCESS

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES
4. DETOUR SIGNING FOR MAINLINE CLOSURES
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 4 PHASE 3	SHEET 538	E



STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, SIDEWALK CLOSURE
2. TRAFFIC CONTROL, WORK ON SHOULDER OF PARKING LANE, UNDIVIDED ROADWAY
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES
4. DETOUR SIGNING FOR MAINLINE CLOSURES
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
7. TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

CONSTRUCTION

INSTALL STORM SEWER UNDER BRITTA PARKWAY

SEE STORM SEWER PLAN SHEETS

CONSTRUCT BRITTA PARKWAY AND DRIVEWAY

INSTALL N-13-3

TRAFFIC

TRAFFIC DETOUR DURING BRITTA PARKWAY CONSTRUCTION TO EAST VERONA ROAD FRONTAGE ROAD/WEST BELTLINE FRONTAGE ROAD

MAINTAIN ACCESS TO ADJACENT PROPERTY

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - USH 18/151 (VERONA ROAD) - STAGE 5 PHASE 1	SHEET 539	E

2

* WALL POSITION DURING DAYTIME OPERATION

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

CONCRETE BARRIER TEMPORARY PRECAST
DELIVERED AND INSTALLED
STA 1211+02 - 1214+22

CRASH CUSHIONS TEMPORARY
STA 1210+57

WB USH 12/14/18/151 (BELTLINE)

1204+00 1205+00 1206+00 1207+00 1208+00 1209+00 1210+00 1211+00 1212+00 1213+00 1214+00 1215+00 1216+00 1217+00 1218+00 1219+00

100' (TYP.)

(2) ADVANCE WARNING AND TRANSITION AREA

500' (MIN.) - BUFFER SPACE

ROAD WORK AHEAD W20-1

500' (MIN.)

ADVANCE WARNING AND TRANSITION AREA (2)

500' (MIN.) - BUFFER SPACE

EB USH 12/14/18/151 (BELTLINE)

CONCRETE BARRIER TEMPORARY PRECAST
DELIVERED AND INSTALLED
STA 1210+57 - 1213+77

CRASH CUSHIONS TEMPORARY
STA 1214+22

EB USH 12/14/18/151 (BELTLINE) OFF-RAMP

WEST BELTLINE FRONTAGE ROAD

LANDMARK PLACE

SIGN, W, INL, MH, WALLS, RIPRAP, A/C

CONSTRUCTION

CONSTRUCT DMS-13-32/33

TRAFFIC

USH 12/14/18/151 MAINLINE ON EXISTING PAVEMENT WITH DAYTIME SHOULDER CLOSURES

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 45 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - TODD DRIVE DMS (DMS-13-32/33)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026301_s1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

CONSTRUCTION

CONSTRUCT DMS-13-32/33

TRAFFIC

USH 12/14/18/151 MAINLINE ON EXISTING PAVEMENT WITH NIGHTTIME MEDIAN LANE CLOSURES

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 45 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

* WALL MAY BE MOVED FOR NIGHTTIME OPERATIONS ONLY AND SHALL CONFORM TO SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER"

N

WB USH 12/14/18/151 (BELTLINE)

1204+00 1205+00 1206+00 1207+00 1208+00 1209+00 1210+00 1211+00 1212+00 1213+00 1214+00 1215+00 1216+00 1217+00 1218+00 1219+00

(1) ADVANCE WARNING AND TRANSITION AREA

500' (MIN.) - BUFFER SPACE

100' (TYP.)

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED STA 1211+34 - 1213+77

*

500' (MIN.)

ROAD WORK AHEAD W20-1

500' (MIN.) - BUFFER SPACE

ADVANCE WARNING AND TRANSITION AREA (1)

EB USH 12/14/18/151 (BELTLINE) OFF-RAMP

EB USH 12/14/18/151 (BELTLINE)

WEST BELTLINE FRONTAGE ROAD

LANDMARK PLACE

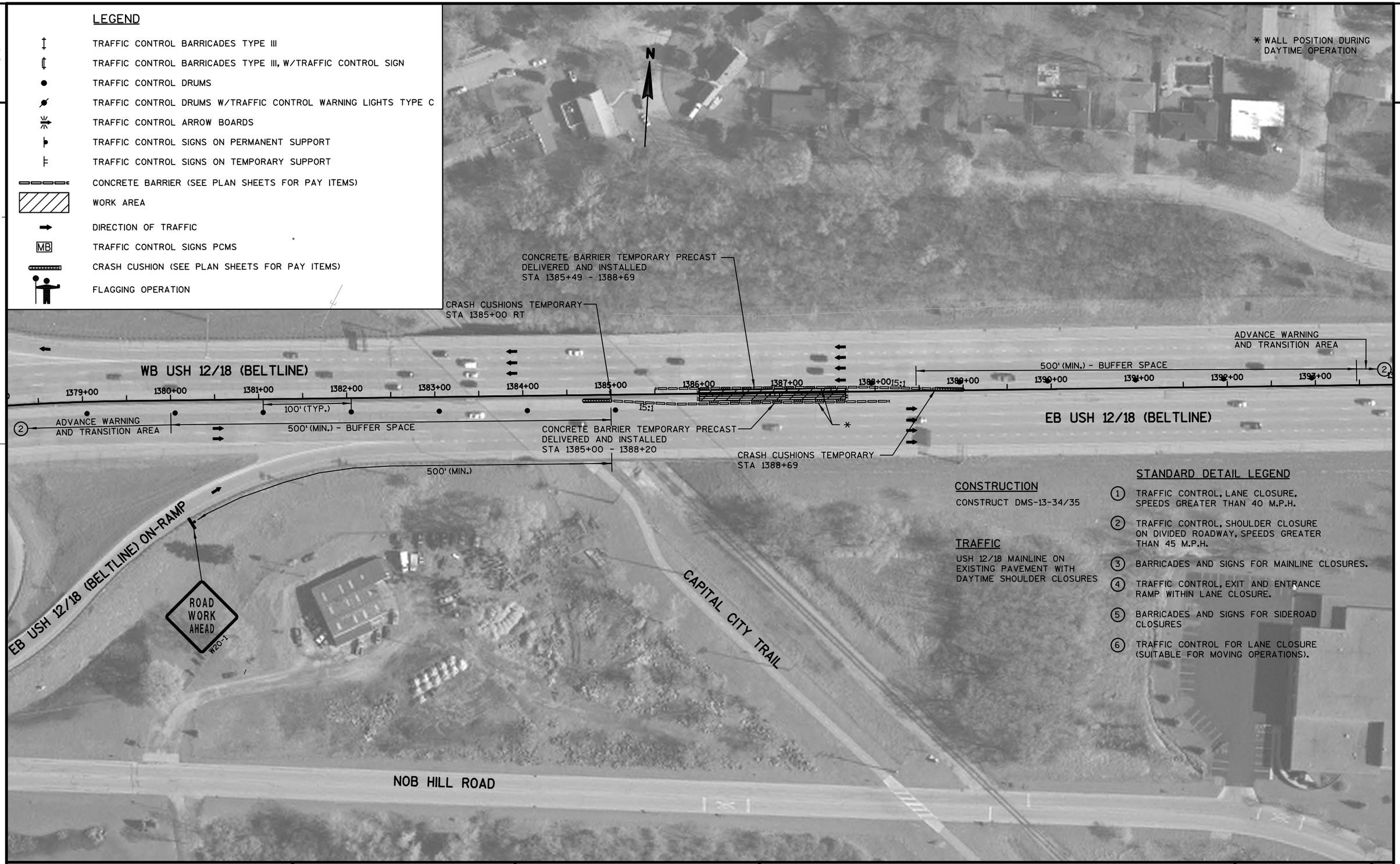
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - TODD DRIVE DMS (DMS-13-32/33)	SHEET 541	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026302_s1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION



CONSTRUCTION

CONSTRUCT DMS-13-34/35

TRAFFIC

USH 12/18 MAINLINE ON EXISTING PAVEMENT WITH DAYTIME SHOULDER CLOSURES

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 45 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - JOHN NOLEN DRIVE (DMS-13-34/35)	SHEET 542	E

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

* WALL MAY BE MOVED FOR NIGHTTIME OPERATIONS ONLY AND SHALL CONFORM TO SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER"

WB USH 12/18 (BELTLINE)

1379+00 1380+00 1381+00 1382+00 1383+00 1384+00 1385+00 1386+00 1387+00 1388+00 1389+00 1392+00 1393+00

15:1

15:1

(1) ADVANCE WARNING AND TRANSITION AREA

500' (MIN.) - BUFFER SPACE

500' (MIN.) - BUFFER SPACE

ADVANCE WARNING AND TRANSITION AREA (1)

EB USH 12/18 (BELTLINE)

*

500' (MIN.)

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED STA 1385+77 - 1388+20

EB USH 12/18 (BELTLINE) ON-RAMP

ROAD WORK AHEAD W20-1

CAPITAL CITY TRAIL

NOB HILL ROAD

CONSTRUCTION

CONSTRUCT DMS-13-34/35

TRAFFIC

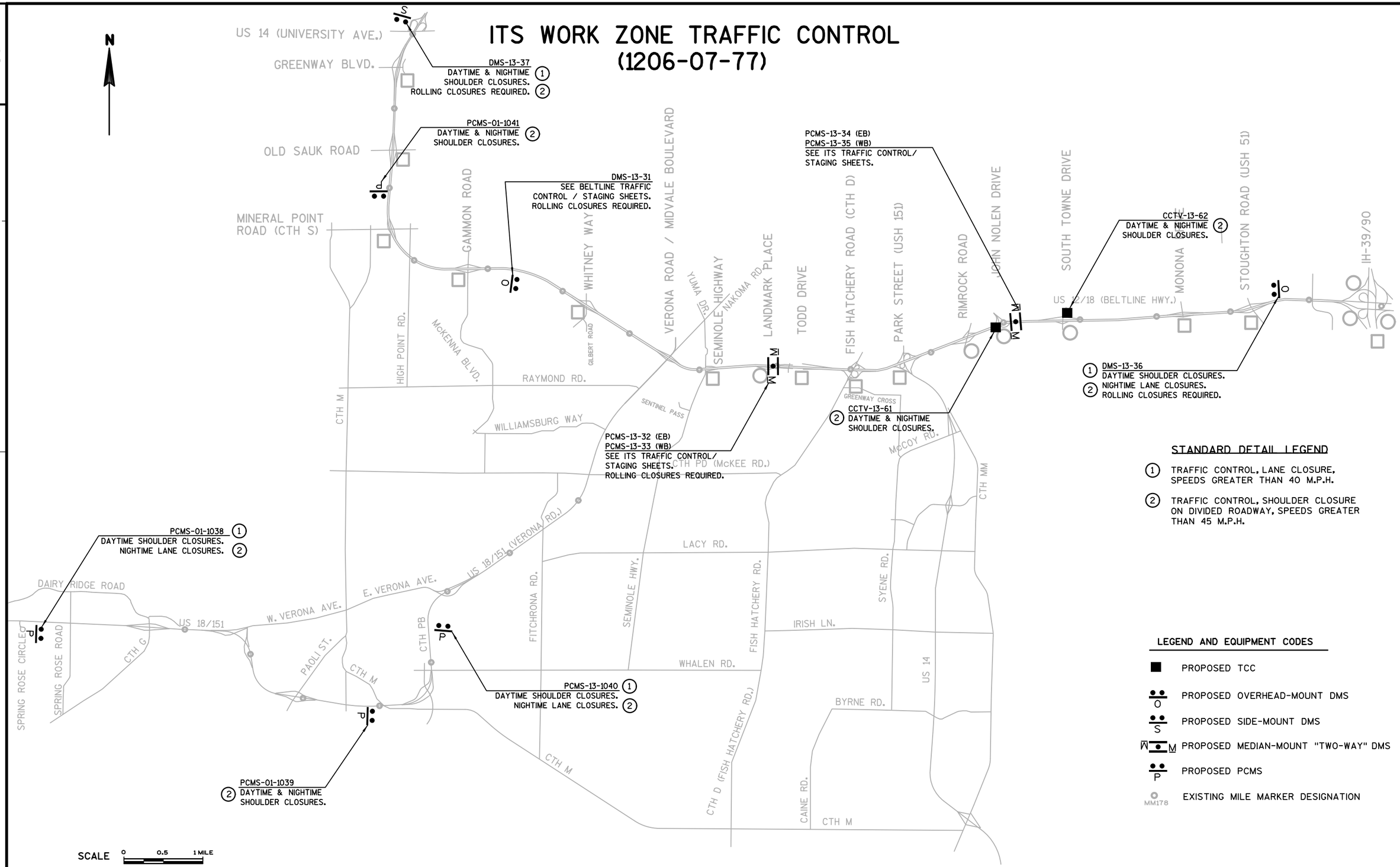
USH 12/18 MAINLINE ON EXISTING PAVEMENT WITH NIGHTTIME MEDIAN LANE CLOSURES

STANDARD DETAIL LEGEND

1. TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
2. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 45 M.P.H.
3. BARRICADES AND SIGNS FOR MAINLINE CLOSURES.
4. TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE.
5. BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
6. TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS).

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - JOHN NOLEN DRIVE (DMS-13-34/35)	SHEET 543	E

ITS WORK ZONE TRAFFIC CONTROL
(1206-07-77)



STANDARD DETAIL LEGEND

(1) TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.

(2) TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 45 M.P.H.

LEGEND AND EQUIPMENT CODES

- PROPOSED TCC
- PROPOSED OVERHEAD-MOUNT DMS (O)
- PROPOSED SIDE-MOUNT DMS (S)
- PROPOSED MEDIAN-MOUNT "TWO-WAY" DMS (W M)
- PROPOSED PCMS (P)
- EXISTING MILE MARKER DESIGNATION (MM178)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ITS TRAFFIC CONTROL	SHEET 544	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

EXISTING PAVEMENT MARKING TO REMAIN (TYP.)

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

TEMPORARY PAVEMENT MARKING 4-INCH REMOVABLE TAPE (YELLOW)

CURB AND GUTTER REMOVAL AND ASPHALT PAD REQ'D FOR TEMPORARY CRASH CUSHION INSTALL

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

CTH PD (McKEE ROAD)

25' (TYP.)

4'

11'

6:1 TAPER

6' MIN

+50 +36 +62

122+00 +50 123+00 +50 124+00 +50 125+00 +15 +50 126+00 +50 127+00

MATCH LINE STA. 127+50

+45 +68 +45 +25 +55 +45

FOR LANE CLOSURE
USE STANDARD DETAIL DRAWING
"TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

R3-17
30" X 24"
BIKE LANE ENDS
R3-17B
30" X 12"

REMOVING PAVEMENT MARKINGS REQ'D (TYP.)

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE (12.5-FT SEG. 37.5-FT GAP)

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

R11-2(MOD)
48" X 30"
LANE CLOSED
TYPE III BARRICADE

CRASH CUSHION TEMPORARY STA 125+35 PD RT

6:1 TAPER

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED AND DELIVERED 125+35 PD - 127+65

TEMPORARY SHORING (REQ'D)

1

MILITARY RIDGE PATH

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED AND DELIVERED 125+91 PD - 126+81 PD

CRASH CUSHION TEMPORARY STA 126+81 PD LT

CONSTRUCTION

INSTALL TEMPORARY SHORING AND CONCRETE BARRIER TEMPORARY PRECAST IN MEDIAN OF CTH PD (MCKEE ROAD)

CONSTRUCT B-13-666 PIER IN MEDIAN

INSTALL STORM SEWER, GRADING, AND R-13-242/243

SEE STORM SEWER PLAN SHEETS

TRAFFIC

OFF PEAK LANE CLOSURES ON EB AND WB CTH PD (MCKEE ROAD)

MAINTAIN WB CTH PD BIKE LANE AT ALL TIMES

EB CTH PD BIKE LANE WILL BE CLOSED

MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES

(1) MAINTAIN ACCESS IN ACCORDANCE WITH BID ITEM TEMPORARY PEDESTRIAN/BICYCLE ACCESS

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - MILITARY RIDGE PATH - STAGE 1 - OFF PEAK	SHEET 545	E

2

CONSTRUCTION

INSTALL TEMPORARY SHORING AND CONCRETE BARRIER TEMPORARY PRECAST IN MEDIAN OF CTH PD (MCKEE ROAD)

CONSTRUCT B-13-666 PIER IN MEDIAN

INSTALL STORM SEWER, GRADING, AND R-13-242/243

SEE STORM SEWER PLAN SHEETS

TRAFFIC

OFF PEAK LANE CLOSURES ON EB AND WB CTH PD (MCKEE ROAD)

MAINTAIN WB CTH PD BIKE LANE AT ALL TIMES

EB CTH PD BIKE LANE WILL BE CLOSED

MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES

N

R11-2(MOD)
48" X 30"
LANE CLOSED
TYPE III BARRICADE

FOR LANE CLOSURE
USE STANDARD DETAIL DRAWING
"TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

EXISTING PAVEMENT MARKING TO REMAIN (TYP.)

CTH PD (McKEE ROAD)

MATCH LINE STA. 127+50

128+00 +50 129+00 +50 130+00 +50 131+00 +50 132+00 +50 133+00 +50

11' +20 25' (TYP.) +40 25' (TYP.) +22

REMOVING PAVEMENT MARKINGS REQ'D (TYP.)

TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE (12.5-FT SEG. 37.5-FT GAP)

CONCRETE BARRIER TEMPORARY PRECAST INSTALLED AND DELIVERED 125+35 PD - 127+65 PD (230 LF)

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - MILITARY RIDGE PATH - STAGE 1 - OFF PEAK	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026610_CB_s1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

EXISTING PAVEMENT MARKING TO REMAIN (TYP.)

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

CTH PD (McKEE ROAD)

+50 123+00 +50 124+00 +50 125+00 +10 +50 126+00 127+00 +50 128+00 +50

+35 +50 +45 +10

25' (TYP.)

11' 11' 11' 11'

CRASH CUSHION TEMPORARY STA 126+81 PD LT
INSTALLED IN MILITARY RIDGE STAGE 1 OFF PEAK
(NO MOVES REQUIRED THIS STAGE)

TEMPORARY SHORING (REQ'D)

CONCRETE BARRIER TEMPORARY PRECAST
125+91 PD - 126+81 PD
INSTALLED IN MILITARY RIDGE STAGE 1 OFF PEAK
(NO MOVES REQUIRED THIS STAGE)

TRAFFIC CONTROL DRUMS

R3-17
30" X 24"
BIKE LANE ENDS
R3-17B
30" X 12"

CRASH CUSHION TEMPORARY STA 125+35 PD RT
INSTALLED IN MILITARY RIDGE STAGE 1 OFF PEAK
(NO MOVES REQUIRED THIS STAGE)

CONCRETE BARRIER TEMPORARY
125+35 PD - 127+65
INSTALLED IN MILITARY RIDGE STAGE 1 OFF PEAK
(NO MOVES REQUIRED THIS STAGE)

(1) MAINTAIN ACCESS IN ACCORDANCE WITH BID ITEM TEMPORARY PEDESTRIAN/BICYLCE ACCESS

MILITARY RIDGE PATH

INL

CONSTRUCTION

CONSTRUCT B-13-666 PIER IN MEDIAN

INSTALL STORM SEWER, GRADING AND R-13-242/243

SEE STORM SEWER PLAN SHEETS

TRAFFIC

LANE CLOSURES NOT ALLOWED ON EB AND WB CTH PD (MCKEE ROAD)

MAINTAIN WB CTH PD BIKE LANE AT ALL TIMES

MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - MILITARY RIDGE PATH - STAGE 1 - PEAK	SHEET 547	E

2

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

EXISTING PAVEMENT MARKING TO REMAIN (TYP.)

CTH PD (McKEE ROAD)

11'
11'
11'

+25
+25
25' (TYP.)

+50 122+00 +50 123+00 +50 124+00 +50 125+00 +50 126+00 +50 127+00

MATCH LINE STA. 127+50

+65
25' (TYP.)
+45

FOR LANE CLOSURE
USE STANDARD DETAIL DRAWING
"TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

R3-17
30" X 24"
BIKE LANE ENDS
R3-17B
30" X 12"

R11-2(MOD)
48" X 30"
LANE CLOSED
TYPE III BARRICADE

CONSTRUCTION

COMPLETE STORM SEWER INSTALLATION AND REMOVAL AND REPLACEMENT OF CURB AND GUTTER ON EB AND WB CTH PD, GRADING, B-13-666 AND R-13-242/243

SEE STORM SEWER PLAN SHEETS (SEE PAVEMENT MARKING SHEETS)

INSTALL PERMANENT PAVMENT MARKINGS UPON COMPLETION OF CONSTRUCTION OPERATIONS

TRAFFIC

OFF PEAK LANE CLOSURES ON EB AND WB CTH PD (MCKEE ROAD)

WB CTH PD BIKE LANE WILL BE CLOSED

EB CTH PD BIKE LANE WILL BE CLOSED

MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES

1 MAINTAIN ACCESS IN ACCORDANCE WITH BID ITEM TEMPORARY PEDESTRIAN/BICYCLE ACCESS

MILITARY RIDGE PATH

INL

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - MILITARY RIDGE PATH - STAGE 2 - OFF PEAK	SHEET 548	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

R11-2(MOD)
48" X 30"
LANE CLOSED
TYPE III BARRICADE

FOR LANE CLOSURE
USE STANDARD DETAIL DRAWING
"TRAFFIC CONTROL SINGLE LANE CLOSURE,
NON-FREEWAY/EXPRESSWAY"

R3-17
30" X 24"
BIKE LANE ENDS
R3-17B
30" X 12"

CTH PD (McKEE ROAD)

MATCH LINE STA. 127+50

128+00 +50 129+00 +50 130+00 +50 131+00 +50 132+00 +50 133+00 +50

+10 +30

25' (TYP.)

11' 11' 11'

INL SIGN GN

EXISTING PAVEMENT MARKING
TO REMAIN (TYP.)

CONSTRUCTION

COMPLETE STORM SEWER INSTALLATION AND REMOVAL AND REPLACEMENT OF CURB AND GUTTER ON EB AND WB CTH PD, GRADING, B-13-666, AND R-13-242/243

SEE STORM SEWER PLAN SHEETS

INSTALL PERMANENT PAVMENT MARKINGS UPON COMPLETION OF CONSTRUCTION OPERATIONS (SEE PAVEMENT MARKING SHEETS)

TRAFFIC

OFF PEAK LANE CLOSURES ON EB AND WB CTH PD (MCKEE ROAD)

WB CTH PD BIKE LANE WILL BE CLOSED

EB CTH PD BIKE LANE WILL BE CLOSED

MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - MILITARY RIDGE PATH - STAGE 2 - OFF PEAK	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\026640_CB_s2.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

EXISTING PAVEMENT MARKING TO REMAIN (TYP.)

11'
11'

+00

25' (TYP.)

CTH PD (McKEE ROAD)

+50 122+00 +50 123+00 +50 124+00 +50 125+00 +50 126+00 +50 127+00

MATCH LINE STA. 127+50

11'
11'

+00

25' (TYP.)

1

R3-17
30" X 24"
BIKE LANE ENDS
R3-17B
30" X 12"

MILITARY RIDGE PATH

CONSTRUCTION

COMPLETE STORM SEWER INSTALLATION AND REMOVAL AND REPLACEMENT OF CURB AND GUTTER ON EB AND WB CTH PD, GRADING, B-13-666, AND R-13-242/243

SEE STORM SEWER PLAN SHEETS

TRAFFIC

LANE CLOSURES ON EB AND WB CTH PD (MCKEE ROAD) ARE NOT ALLOWED

WB CTH PD BIKE LANE WILL BE CLOSED

EB CTH PD BIKE LANE WILL BE CLOSED

MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES

(1) MAINTAIN ACCESS IN ACCORDANCE WITH BID ITEM TEMPORARY PEDESTRIAN/BICYCLE ACCESS

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - MILITARY RIDGE PATH - STAGE 2 - PEAK	SHEET 550	E

2

LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III, W/TRAFFIC CONTROL SIGN
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS W/TRAFFIC CONTROL WARNING LIGHTS TYPE C
- TRAFFIC CONTROL ARROW BOARDS
- TRAFFIC CONTROL SIGNS ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGNS ON TEMPORARY SUPPORT
- CONCRETE BARRIER (SEE PLAN SHEETS FOR PAY ITEMS)
- WORK AREA
- DIRECTION OF TRAFFIC
- MB TRAFFIC CONTROL SIGNS PCMS
- CRASH CUSHION (SEE PLAN SHEETS FOR PAY ITEMS)
- FLAGGING OPERATION

N

R3-17
30" X 24"
BIKE LANE
ENDS
R3-17B
30" X 12"

SIGN

GN

INL

25'
(TYP.)

11'

11'

+83

CTH PD (McKEE ROAD)

MATCH LINE STA. 127+50

128+00 +50 129+00 +50 130+00 +50 131+00 +50 132+00 +50 133+00 +50

11'

11'

INL

INL

INL

GN

INL

SIGN

RIPRAP RIPRAP RIPRAP

CONSTRUCTION

COMPLETE STORM SEWER INSTALLATION AND REMOVAL AND REPLACEMENT OF CURB AND GUTTER ON EB AND WB CTH PD, GRADING, B-13-666, AND R-13-242/243

SEE STORM SEWER PLAN SHEETS

TRAFFIC

LANE CLOSURES ON EB AND WB CTH PD (MCKEE ROAD) ARE NOT ALLOWED

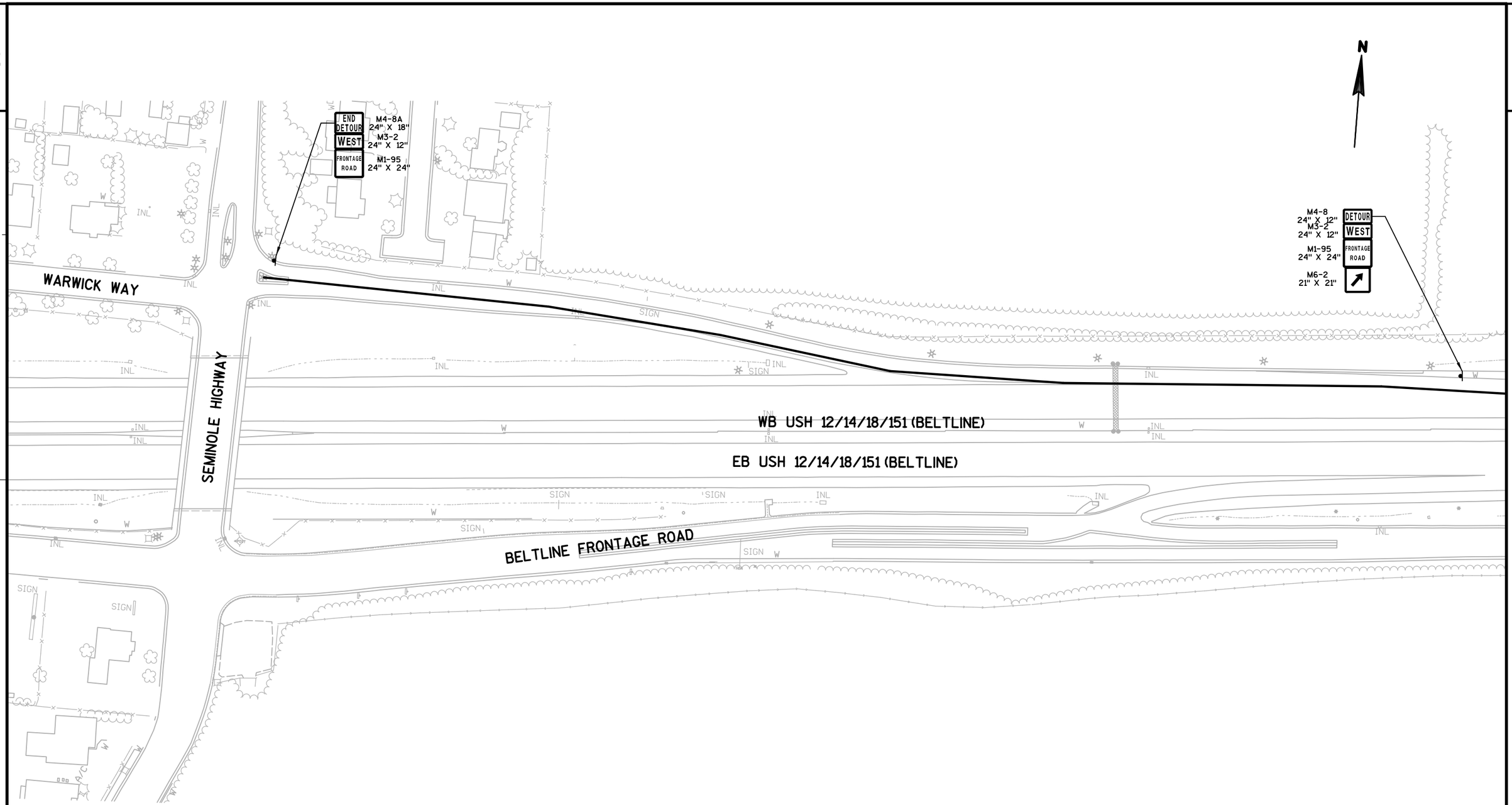
WB CTH PD BIKE LANE WILL BE CLOSED

EB CTH PD BIKE LANE WILL BE CLOSED

MAINTAIN EB CTH PD SIDEWALK AT ALL TIMES

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	TRAFFIC CONTROL - MILITARY RIDGE PATH - STAGE 2 - PEAK	SHEET 551	E

2



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	WEST BELTLINE FRONTAGE ROAD DETOUR	SHEET 552	E

2

N

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

M4-8
24" X 12"
M3-2
24" X 12"
M1-95
24" X 24"
M 6-1
21" X 21"

DETOUR
WEST
FRONTAGE ROAD

ROAD CLOSED AHEAD
W20-3

ROAD CLOSED 500 FT
W20-3

BELTLINE FRONTAGE ROAD

R3-2
24" X 24"

RIVERBEND ROAD

KINGSTON DRIVE

GRANDVIEW BOULEVARD

FOOTBR

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	WEST BELTLINE FRONTAGE ROAD DETOUR	SHEET 553	E

2

N

M4-8
24" X 12"
M3-2
24" X 12"
M1-95
24" X 24"

DETOUR
WEST
FRONTAGE ROAD

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

BELTLINE FRONTAGE ROAD

M 6-1
21" X 21"

RIPRAP

WALLS

FOOTBRIDGE

A/C

LANDMARK PLACE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	WEST BELTLINE FRONTAGE ROAD DETOUR	SHEET 554	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\027003_dt.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

2

N

TODD DRIVE

M4-8 24" X 12"
M3-2 24" X 12"
M1-95 24" X 24"
M 6-1 21" X 21"
DETOUR WEST FRONTAGE ROAD

BELTLINE FRONTAGE ROAD

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

ROAD CLOSED 1/2 MILE AHEAD LOCAL TRAFFIC ONLY
R11-3 60" X 30"

U.S.H. 12/14/18/151

BELTLINE FRONTAGE ROAD

M5-1L 21" X 21"

CURRY PARKWAY

TODD DRIVE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	WEST BELTLINE FRONTAGE ROAD DETOUR	SHEET 555	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\Staging and Traffic Control\027004_dt.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

MILITARY RIDGE STATE TRAIL

USH 18/151 (VERONA ROAD)

ANTON DRIVE

WILLIAMSBURG WAY

VERONA FRONTAGE ROAD

COTTONWOOD DRIVE

CTH PD

MILITARY RIDGE STATE PATH

CAPITAL CITY TRAIL

BADGER STATE TRAIL

BIKE PATH CLOSED

BIKE PATH CLOSED

BIKE PATH CLOSED

D11-1 24" X 18"
M4-8 24" X 12"
M6-1 21" X 21"

D11-1 24" X 18"
M4-8 24" X 12"
M 6-1 21" X 21"

D11-1 24" X 18"
M4-8 24" X 12"
M 6-1 21" X 21"

D11-1 24" X 18"
M4-8 24" X 12"
M 6-1 21" X 21"

D11-1 24" X 18"
M4-8 24" X 12"
M6-1 21" X 21"

D11-1 24" X 18"
M4-8 24" X 12"
M6-1 21" X 21"

D11-1 24" X 18"
M4-8 24" X 12"
M6-1 21" X 21"

D11-1 24" X 18"
M4-8 24" X 12"
M6-1 21" X 21"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- TEMPORARY CRASH CUSHION
- FLAGGING OPERATION

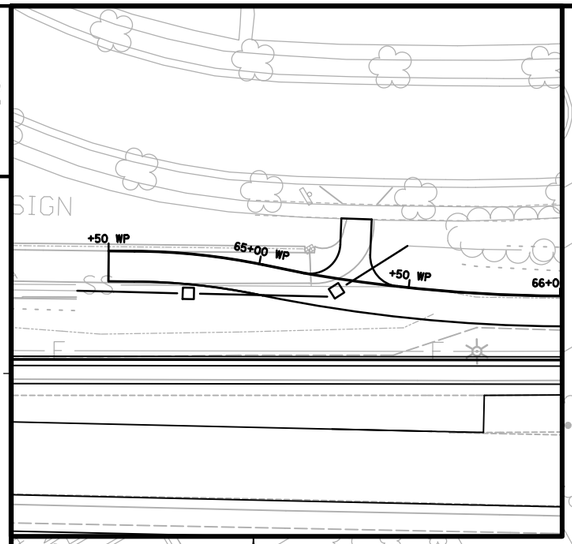
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	STAGING PLANS - DETOUR	SHEET 556	E

2

LEGEND

FENCE CHAIN LINK 6-FT

FENCE SAFETY



STA 1064+01.0, 98.0' LT
MATCH EXISTING

STA 65+03.2 WP, 13.0' RT

STA 65+58.4 WP, 13.0' RT

STA 66+13.6 WP, 13.0' RT

65+00 WP
66+00 WP
67+00 WP
68+00 WP
69+00 WP
70+00 WP
71+00 WP
72+00 WP
73+00 WP
74+00 WP
75+00 WP
76+00 WP

STA 71+24.8 WP, 15.0' RT

STA 74+84.3 WP, 14.2' RT

STA 75+86.3 WP, 13.0' RT

67+00 L
68+00 L
69+00 L
70+00 L
71+00 L
72+00 L
73+00 L
74+00 L
75+00 L
76+00 L

1064+00 1065+00 1066+00 1067+00 1068+00 1069+00 1070+00 1071+00 1072+00 1073+00 1074+00 1075+00 1076+00 1077+00 1078+00 1079+00

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FENCING PLAN - WHITNEY WAY BIKE PATH	SHEET 557	E

2

LEGEND

FENCE CHAIN LINK 6-FT

FENCE SAFETY

STA 77+75.8 K, 104.4'LT

STA 78+01.4 K, 76.6'LT
MATCH NOISE WALL

N-13-0004

STA 82+01.0 K, 56.9'LT
MATCH NOISE WALL

STA 82+67.6 K, 87.4'LT

77+00 78+00 K 79+00 K 80+00 K 81+00 K 82+00 K 83+00 K 84+00 K 85+00 K 86+00 K 87+00 K

1073+00 1074+00 1075+00 1076+00 1077+00 1078+00 1079+00 1080+00 1081+00 1082+00 1083+00 1084+00 1085+00 1086+00 1087+00

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FENCING PLAN - NOISE WALL N-13-4	SHEET 558	E

2

2

LEGEND

FENCE CHAIN LINK 6-FT

FENCE SAFETY

STA 1119+05.5, 99.9'LT

STA 1119+71.1, 80.0'LT

STA 1123+66.1, 80.0'LT

STA 1126+69.9, 78.0'LT

STA 1126+41.7, 85.0'RT

STA 1127+15.1, 74.1'RT

STA 1123+97.1, 84.3'RT

1117+00 1118+00 1119+00 1120+00 1121+00 1122+00 1123+00 1124+00 1125+00 1126+00 1127+00 1128+00 1129+00 1130+00 1131+00 1132+00

GOLF GREEN

GOLF GREEN

GOLF COURSE

RIPRAP

WALLS

BIKE PATH

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FENCING PLAN - BELTLINE STORM SEWER	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\027103_fn.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

LEGEND

—x—x— FENCE CHAINLINK 6-FOOT

—□— FENCE SAFETY

N

STA 1158+47.0, 100.6'LT
MATCH EXISTING

STA 1159+38.0, 106.4'LT
MATCH NOISE WALL

N-13-0002

STA 1169+24.4, 113.1'LT
MATCH NOISE WALL

STA 1170+56.2, 88.0'LT

GATES CHAIN LINK 3-FT
STA 1170+50, 88.0'LT

STA 1171+20.6, 88.0'LT

STA 1171+84.3, 88.0'LT

R-13-235

STA 1171+09.4, 84.0'RT

STA 1171+01.4, 84.0'RT

R-13-236

STA 1170+12.7, 77.0'RT

STA 1166+98.0, 77.0'RT

GATES CHAIN LINK 3-FT
STA 1170+25, 82.3'RT

STA 1170+37.0, 84.0'RT

STA 1166+56.3, 92.8'RT
MATCH EXISTING

STA 1171+27.3, 77.0'RT

MATCHLINE STA. 1026+00

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FENCING PLAN - NOISE WALL N-13-2 AND R-13-235/236	SHEET 560	E

2

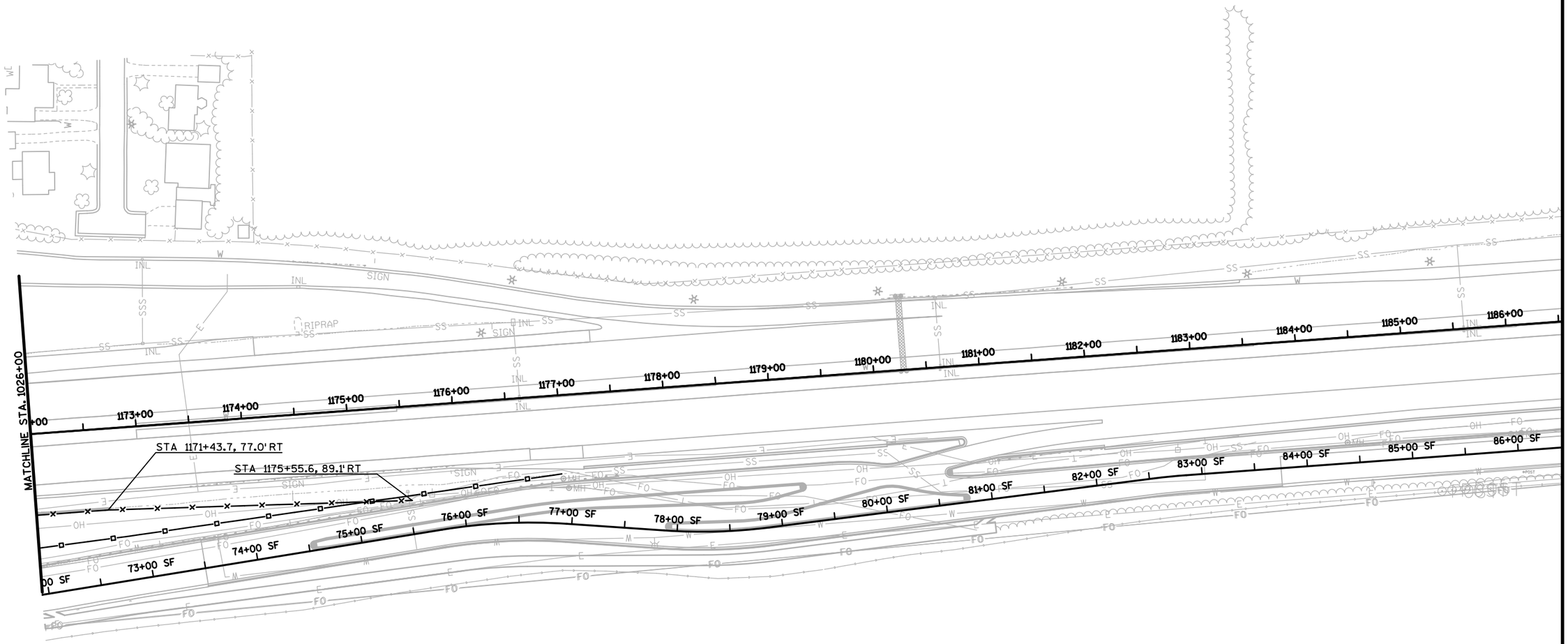
2

LEGEND

FENCE CHAINLINK 6-FOOT

FENCE SAFETY

N



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	FENCING PLAN - POST AND PANEL WALLS R-13-235/236	SHEET 561	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\027105_fn.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

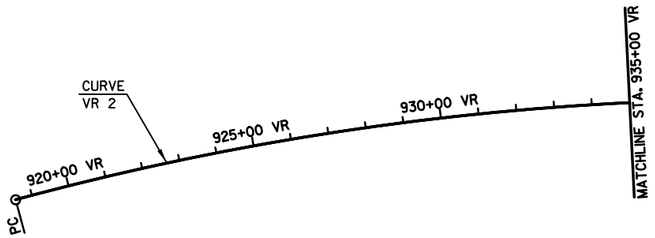
ALIGNMENT DETAILS FOR INTERSECTION IMPROVEMENTS
ARE LOCATED ON PLAN SHEETS.

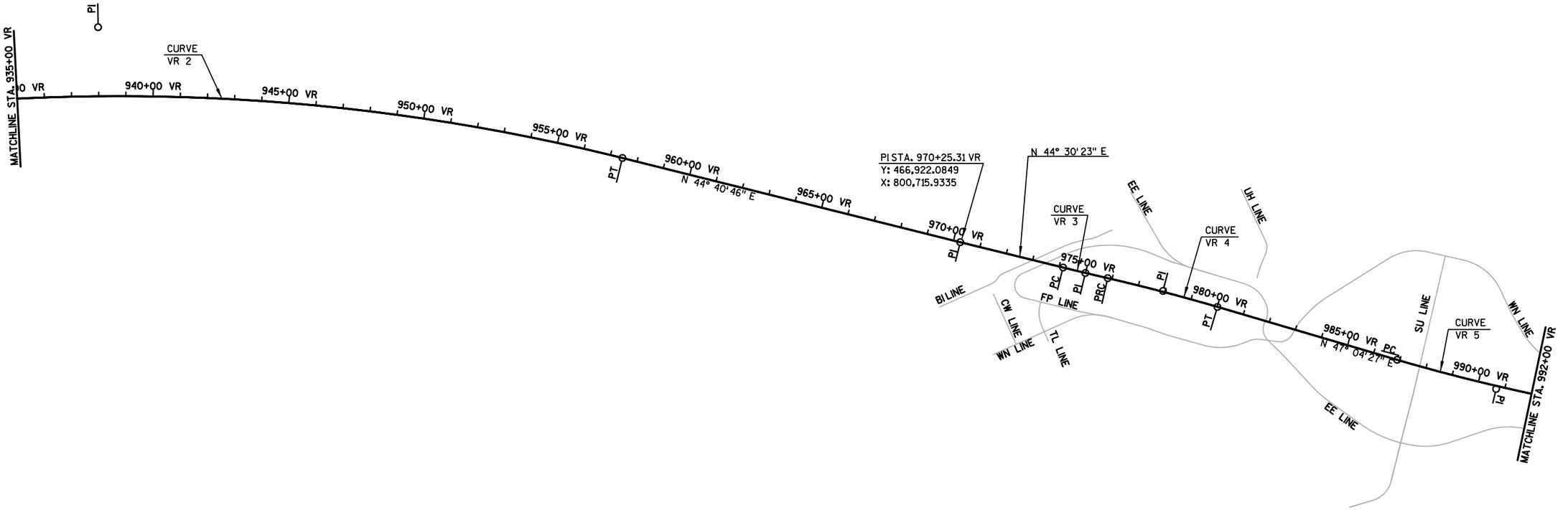
CURVE = VR 2
P.I. = 938+43.32 VR
Y = 464,598.19
X = 798,417.91
DELTA = 29° 10' 14.71" (RT)
D = 0° 45' 00.00"
T = 1,987.84
L = 3,889.44
R = 7,639.44
P.C. = 918+55.48 VR
Y = 462,682.73
X = 797,886.39
P.T. = 957+44.92 VR
Y = 466,011.66
X = 799,815.64

CURVE = VR 3
P.I. = 974+99.27 VR
Y = 467,260.10
X = 801,048.17
DELTA = 0° 49' 50.05" (LT)
D = 0° 29' 29.91"
T = 84.47
L = 168.94
R = 11,654.00
P.C. = 974+14.79 VR
Y = 467,199.85
X = 800,988.96
P.R.C. = 975+83.73 VR
Y = 467,321.19
X = 801,106.50

CURVE = VR 4
P.I. = 977+92.27 VR
Y = 467,472.02
X = 801,250.52
DELTA = 3° 23' 53.90" (RT)
D = 0° 48' 54.07"
T = 208.54
L = 416.96
R = 7,030.00
P.R.C. = 975+83.73 VR
Y = 467,321.19
X = 801,106.50
P.T. = 980+00.69 VR
Y = 467,614.05
X = 801,403.22

CURVE = VR 5
P.I. = 990+69.36 VR
Y = 468,341.86
X = 802,185.73
DELTA = 6° 36' 21.64" (LT)
D = 0° 52' 19.02"
T = 379.23
L = 757.61
R = 6,571.00
P.C. = 986+90.13 VR
Y = 468,083.59
X = 801,908.04
P.R.C. = 994+47.74 VR
Y = 468,630.37
X = 802,431.86



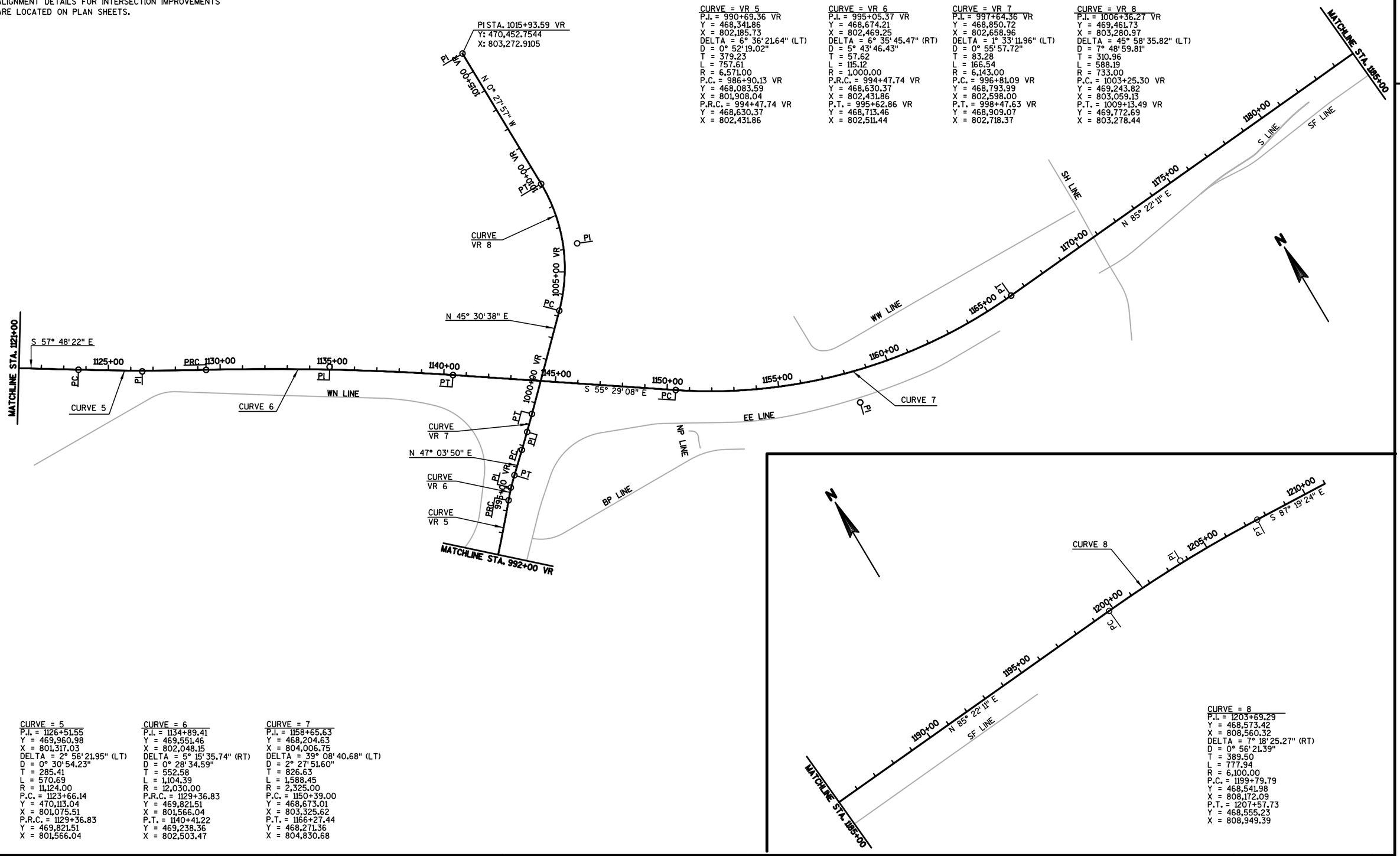


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALIGNMENT PLAN - MAINLINE	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\027201_ad.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

ALIGNMENT DETAILS FOR INTERSECTION IMPROVEMENTS
ARE LOCATED ON PLAN SHEETS.



CURVE = VR 5
P.I. = 990+69.36 VR
Y = 468,341.86
X = 802,185.73
DELTA = 6° 36' 21.64" (LT)
D = 0° 52' 19.02"
T = 379.23
L = 757.61
R = 6,571.00
P.C. = 986+90.13 VR
Y = 468,083.59
X = 801,908.04
P.R.C. = 994+47.74 VR
Y = 468,630.37
X = 802,431.86

CURVE = VR 6
P.I. = 995+05.37 VR
Y = 468,674.21
X = 802,469.25
DELTA = 6° 35' 45.47" (RT)
D = 5° 43' 46.43"
T = 57.62
L = 115.12
R = 1,000.00
P.R.C. = 994+47.74 VR
Y = 468,630.37
X = 802,431.86
P.T. = 995+62.86 VR
Y = 468,713.46
X = 802,511.44

CURVE = VR 7
P.I. = 997+64.36 VR
Y = 468,850.72
X = 802,658.96
DELTA = 1° 33' 11.96" (LT)
D = 0° 55' 57.72"
T = 83.28
L = 166.54
R = 6,143.00
P.C. = 996+81.09 VR
Y = 468,793.99
X = 802,598.00
P.T. = 998+47.63 VR
Y = 468,909.07
X = 802,718.37

CURVE = VR 8
P.I. = 1006+36.27 VR
Y = 469,461.73
X = 803,280.97
DELTA = 45° 58' 35.82" (LT)
D = 7° 48' 59.81"
T = 310.96
L = 588.19
R = 733.00
P.C. = 1003+25.30 VR
Y = 469,243.82
X = 803,059.13
P.T. = 1009+13.49 VR
Y = 469,772.69
X = 803,278.44

CURVE = 5
P.I. = 1126+51.55
Y = 469,960.98
X = 801,317.03
DELTA = 2° 56' 21.95" (LT)
D = 0° 30' 54.23"
T = 285.41
L = 570.69
R = 11,124.00
P.C. = 1123+66.14
Y = 470,113.04
X = 801,075.51
P.R.C. = 1129+36.83
Y = 469,821.51
X = 801,566.04

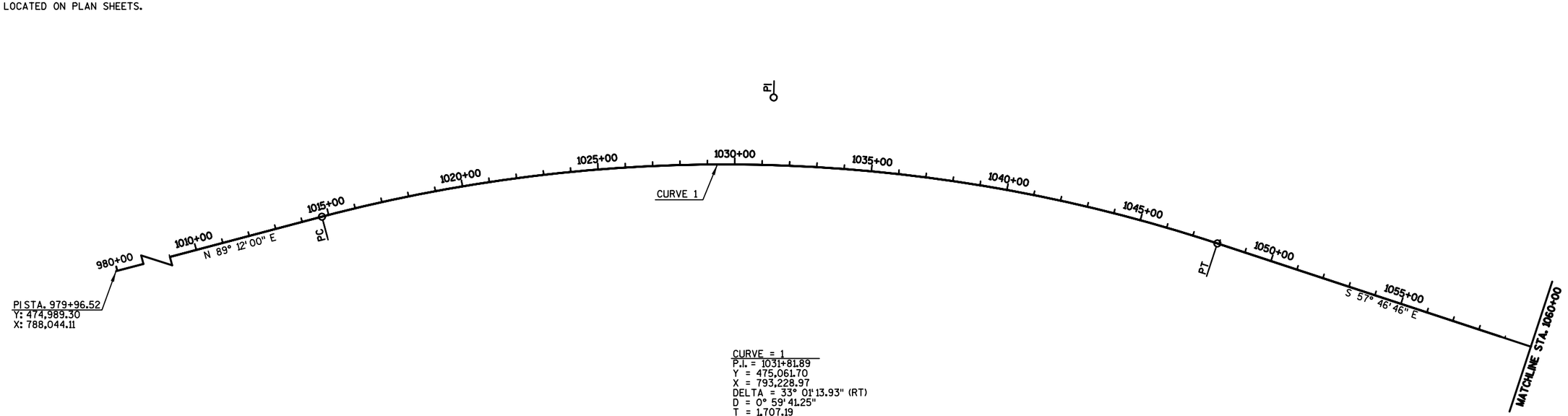
CURVE = 6
P.I. = 1134+89.41
Y = 469,551.46
X = 802,048.15
DELTA = 5° 15' 35.74" (RT)
D = 0° 28' 34.59"
T = 552.58
L = 1,104.39
R = 12,030.00
P.R.C. = 1129+36.83
Y = 469,821.51
X = 801,566.04
P.T. = 1140+41.22
Y = 469,238.36
X = 802,503.47

CURVE = 7
P.I. = 1158+65.63
Y = 468,204.63
X = 804,006.75
DELTA = 39° 08' 40.68" (LT)
D = 2° 27' 51.60"
T = 826.63
L = 1,588.45
R = 2,325.09
P.C. = 1150+39.00
Y = 468,673.01
X = 803,325.62
P.T. = 1166+27.44
Y = 468,271.36
X = 804,830.68

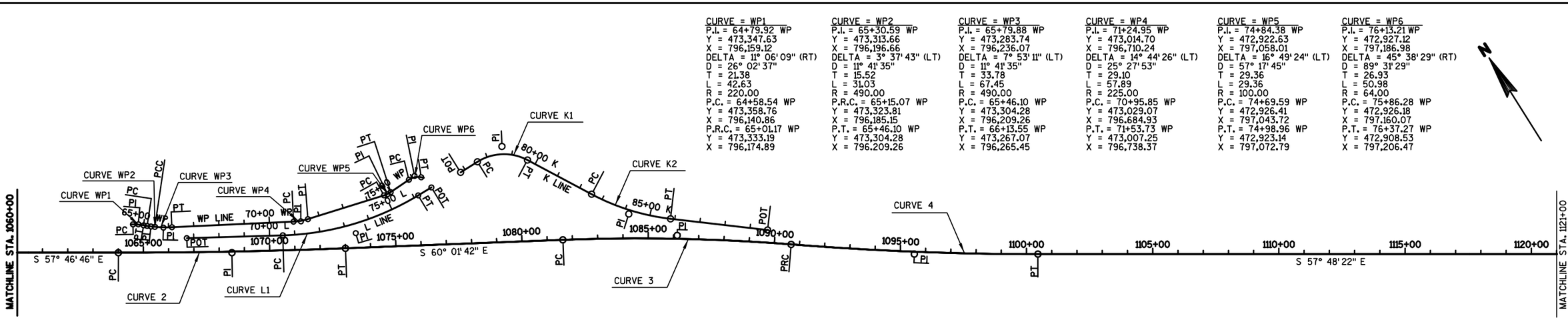
CURVE = 8
P.I. = 1203+69.29
Y = 468,573.42
X = 808,560.32
DELTA = 7° 18' 25.27" (RT)
D = 0° 56' 21.39"
T = 389.50
L = 777.94
R = 6,100.00
P.C. = 1199+79.79
Y = 468,541.98
X = 808,172.09
P.T. = 1207+57.73
Y = 468,555.23
X = 808,949.39

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALIGNMENT PLAN - MAINLINE	SHEET 563	E

ALIGNMENT DETAILS FOR INTERSECTION IMPROVEMENTS
ARE LOCATED ON PLAN SHEETS.



CURVE = 1
P.I. = 1031+81.89
Y = 475,061.70
X = 793,228.97
DELTA = 33° 01' 13.93" (RT)
D = 0° 59' 41.25"
T = 1,707.19
L = 3,319.34
R = 5,759.58
P.C. = 1014+74.70
Y = 475,037.87
X = 791,521.95
P.T. = 1047+94.04
Y = 474,151.47
X = 794,673.26



CURVE = WP1
P.I. = 64+79.92 WP
Y = 473,347.63
X = 796,159.12
DELTA = 11° 06' 09" (RT)
D = 26° 02' 37"
T = 21.38
L = 42.63
R = 220.00
P.C. = 64+58.54 WP
Y = 473,358.76
X = 796,140.86
P.R.C. = 65+01.17 WP
Y = 473,333.19
X = 796,174.89

CURVE = WP2
P.I. = 65+30.59 WP
Y = 473,313.66
X = 796,196.66
DELTA = 3° 37' 43" (LT)
D = 11° 41' 35"
T = 15.52
L = 31.03
R = 490.00
P.R.C. = 65+15.07 WP
Y = 473,323.81
X = 796,185.15
P.T. = 65+46.10 WP
Y = 473,304.28
X = 796,209.26

CURVE = WP3
P.I. = 65+79.88 WP
Y = 473,283.74
X = 796,236.07
DELTA = 7° 53' 11" (LT)
D = 11° 41' 35"
T = 33.78
L = 67.45
R = 490.00
P.C. = 65+46.10 WP
Y = 473,304.28
X = 796,209.26
P.T. = 66+13.55 WP
Y = 473,267.07
X = 796,265.45

CURVE = WP4
P.I. = 71+24.95 WP
Y = 473,014.70
X = 796,710.24
DELTA = 14° 44' 26" (LT)
D = 25° 27' 53"
T = 29.10
L = 57.89
R = 225.00
P.C. = 70+95.85 WP
Y = 473,029.07
X = 796,684.93
P.T. = 71+53.73 WP
Y = 473,007.25
X = 796,738.37

CURVE = WP5
P.I. = 74+84.38 WP
Y = 472,922.63
X = 797,058.01
DELTA = 16° 49' 24" (LT)
D = 57° 17' 45"
T = 29.36
L = 29.36
R = 100.00
P.C. = 74+69.59 WP
Y = 472,926.41
X = 797,043.72
P.T. = 74+98.96 WP
Y = 472,923.14
X = 797,072.79

CURVE = WP6
P.I. = 76+13.21 WP
Y = 472,927.12
X = 797,186.98
DELTA = 45° 38' 29" (RT)
D = 89° 31' 29"
T = 26.93
L = 50.98
R = 64.00
P.C. = 75+86.28 WP
Y = 472,926.18
X = 797,160.07
P.T. = 76+37.27 WP
Y = 472,908.53
X = 797,206.47

CURVE = 2
P.I. = 1068+50.38
Y = 473,055.07
X = 796,412.92
DELTA = 2° 14' 55.86" (LT)
D = 0° 15' 00.00"
T = 449.83
L = 899.54
R = 22,918.32
P.C. = 1064+00.55
Y = 473,294.91
X = 796,032.36
P.T. = 1073+00.09
Y = 472,830.35
X = 796,802.59

CURVE = 3
P.I. = 1086+15.04
Y = 472,173.44
X = 797,941.70
DELTA = 6° 43' 25.46" (RT)
D = 0° 44' 35.29"
T = 452.91
L = 904.78
R = 7,710.00
P.C. = 1081+62.13
Y = 472,399.70
X = 797,549.36
P.R.C. = 1090+66.91
Y = 471,902.80
X = 798,304.86

CURVE = 4
P.I. = 1095+56.32
Y = 471,610.35
X = 798,697.27
DELTA = 4° 30' 05.35" (LT)
D = 0° 27' 36.48"
T = 489.40
L = 978.30
R = 12,452.00
P.R.C. = 1090+66.91
Y = 471,902.80
X = 798,304.86
P.T. = 1100+45.21
Y = 471,349.60
X = 799,111.43

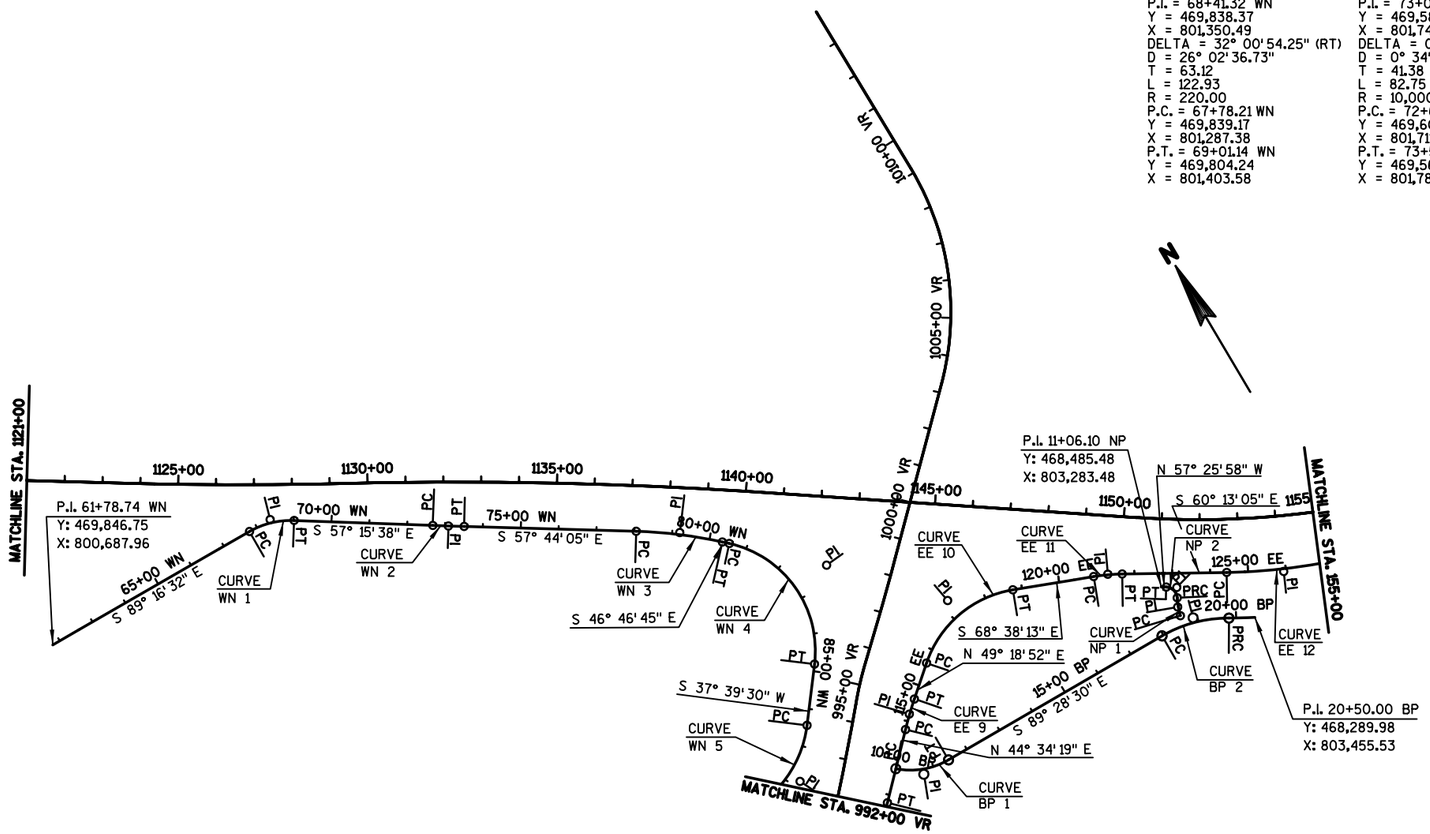
CURVE = L1
P.I. = 73+41.67 L
Y = 472,859.38
X = 796,869.17
DELTA = 29° 26' 51" (LT)
D = 5° 12' 31"
T = 289.07'
L = 565.35'
R = 1,218.00
P.C. = 70+52.60 L
Y = 473,006.08
X = 796,620.09
P.R.C. = 76+17.95 L
Y = 472,854.09
X = 797,158.18

CURVE = K1
P.I. = 78+72.42 K
Y = 472,841.54
X = 797,542.16
DELTA = 60° 08' 53.11" (RT)
D = 28° 56' 43.23"
T = 114.62
L = 207.80
R = 197.94
P.C. = 77+57.79 K
Y = 472,841.71
X = 797,427.53
P.T. = 79+65.59 K
Y = 472,742.04
X = 797,599.06

CURVE = K2
P.I. = 84+20.10 K
Y = 472,347.49
X = 797,824.71
DELTA = 21° 26' 26.03" (LT)
D = 6° 30' 39.18"
T = 166.60
L = 329.30
R = 880.00
P.C. = 82+53.50 K
Y = 472,492.11
X = 797,954.56
P.T. = 85+82.81 K
Y = 472,243.11
X = 797,954.56

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALIGNMENT PLAN - MAINLINE & RAMPS	SHEET 564	E

ALIGNMENT DETAILS FOR INTERSECTION IMPROVEMENTS
ARE LOCATED ON PLAN SHEETS.



CURVE = EE 9
P.I. = 114+19.75 EE
Y = 468,535.89
X = 802,540.22
DELTA = 4° 44' 33.90" (RT)
D = 5° 38' 41.66"
T = 42.03
L = 84.02
R = 1,015.00
P.C. = 113+77.72 EE
Y = 468,505.94
X = 802,510.72
P.T. = 114+61.74 EE
Y = 468,563.29
X = 802,572.10

CURVE = EE 10
P.I. = 117+36.13 EE
Y = 468,742.17
X = 802,780.17
DELTA = 62° 02' 54.37" (RT)
D = 19° 45' 25.80"
T = 174.42
L = 314.06
R = 290.00
P.C. = 115+61.72 EE
Y = 468,628.47
X = 802,647.91
P.T. = 118+75.77 EE
Y = 468,678.63
X = 802,942.60

CURVE = EE 11
P.I. = 121+29.99 EE
Y = 468,586.03
X = 803,179.35
DELTA = 8° 25' 08.59" (RT)
D = 11° 07' 31.42"
T = 37.91
L = 75.67
R = 515.00
P.C. = 120+92.08 EE
Y = 468,599.84
X = 803,144.05
P.T. = 121+67.76 EE
Y = 468,567.20
X = 803,212.25

CURVE = EE 12
P.I. = 125+94.28 EE
Y = 468,355.35
X = 803,582.44
DELTA = 11° 06' 29.28" (LT)
D = 3° 41' 47.41"
T = 150.72
L = 300.50
R = 1,550.00
P.C. = 124+43.56 EE
Y = 468,430.21
X = 803,451.63
P.T. = 127+44.06 EE
Y = 468,307.09
X = 803,725.23

CURVE = WN 1
P.I. = 68+41.32 WN
Y = 469,838.37
X = 801,350.49
DELTA = 32° 00' 54.25" (RT)
D = 26° 02' 36.73"
T = 63.12
L = 122.93
R = 220.00
P.C. = 67+78.21 WN
Y = 469,839.17
X = 801,287.38
P.T. = 69+01.14 WN
Y = 469,804.24
X = 801,403.58

CURVE = WN 2
P.I. = 73+09.04 WN
Y = 469,583.64
X = 801,746.68
DELTA = 0° 28' 26.90" (LT)
D = 0° 34' 22.65"
T = 41.38
L = 82.75
R = 10,000.00
P.C. = 72+67.66 WN
Y = 469,606.02
X = 801,711.88
P.T. = 73+50.41 WN
Y = 469,561.55
X = 801,781.67

CURVE = WN 3
P.I. = 79+20.12 WN
Y = 469,257.42
X = 802,263.41
DELTA = 10° 57' 19.56" (RT)
D = 4° 46' 28.73"
T = 115.08
L = 229.45
R = 1,200.00
P.C. = 78+05.05 WN
Y = 469,318.85
X = 802,166.10
P.T. = 80+34.50 WN
Y = 469,178.61
X = 802,347.27

CURVE = WN 4
P.I. = 83+16.67 WN
Y = 468,985.38
X = 802,552.89
DELTA = 84° 26' 15.43" (RT)
D = 19° 45' 25.80"
T = 263.13
L = 427.38
R = 290.00
P.C. = 80+53.54 WN
Y = 469,165.57
X = 802,361.14
P.T. = 84+80.92 WN
Y = 468,777.07
X = 802,392.13

CURVE = WN 5
P.I. = 87+92.96 WN
Y = 468,530.03
X = 802,201.49
DELTA = 52° 54' 47.21" (RT)
D = 19° 05' 54.94"
T = 149.29
L = 277.05
R = 300.00
P.C. = 86+43.67 WN
Y = 468,648.22
X = 802,292.70
P.T. = 89+20.72 WN
Y = 468,531.52
X = 802,052.20

CURVE = NP 1
P.I. = 10+24.11 NP
Y = 468,417.62
X = 803,294.04
DELTA = 13° 45' 00" (RT)
D = 28° 38' 52"
T = 24.11'
L = 48.00'
R = 200.00'
P.C. = 10+00.00 NP
Y = 468,394.22
X = 803,288.21
P.T. = 10+48.00 NP
Y = 468,438.96
X = 803,305.26

CURVE = NP 2
P.I. = 10+75.59 NP
Y = 468,463.38
X = 803,318.11
DELTA = 85° 12' 01" (LT)
D = 190° 58' 07"
T = 27.59'
L = 44.61'
R = 30.00'
P.C. = 10+48.00 NP
Y = 468,438.96
X = 803,305.26
P.T. = 10+92.61 NP
Y = 468,478.22
X = 803,278.71

CURVE = BP 1
P.I. = 10+75.40 BP
Y = 468,379.75
X = 802,492.13
DELTA = 41° 18' 44" (LT)
D = 28° 38' 52"
T = 75.40'
L = 144.21'
R = 200.00'
P.C. = 10+00.00 BP
Y = 468,430.04
X = 802,435.95
P.T. = 11+44.21 BP
Y = 468,379.07
X = 802,567.52

CURVE = BP 2
P.I. = 18+90.96 BP
Y = 468,372.35
X = 803,314.24
DELTA = 30° 37' 06" (RT)
D = 16° 33' 08"
T = 94.76'
L = 184.98'
R = 346.15'
P.C. = 17+96.21 BP
Y = 468,373.09
X = 803,219.49
P.T. = 19+81.18 BP
Y = 468,323.46
X = 803,395.41

ALIGNMENT DETAILS FOR INTERSECTION IMPROVEMENTS
ARE LOCATED ON PLAN SHEETS.

CURVE = WW 1
P.I. = 51+74.12 WW
Y = 468,511.74
X = 803,948.98
DELTA = 53° 26' 54.09" (LT)
D = 95° 29' 34.68"
T = 30.21
L = 55.97
R = 60.00
P.C. = 51+43.91 WW
Y = 468,541.95
X = 803,948.75
P.T. = 51+99.88 WW
Y = 468,493.93
X = 803,973.37

CURVE = WW 2
P.I. = 52+35.98 WW
Y = 468,472.64
X = 804,002.53
DELTA = 33° 29' 15.73" (LT)
D = 47° 44' 47.34"
T = 36.10
L = 70.14
R = 120.00
P.C. = 51+99.88 WW
Y = 468,493.93
X = 803,973.37
P.T. = 52+70.02 WW
Y = 468,470.98
X = 804,038.60

CURVE = EE 13
P.I. = 130+52.69 EE
Y = 468,208.16
X = 804,017.57
DELTA = 11° 29' 59.24" (LT)
D = 1° 52' 09.68"
T = 308.62
L = 615.17
R = 3,065.00
P.C. = 127+44.06 EE
Y = 468,307.09
X = 803,725.23
P.T. = 133+59.24 EE
Y = 468,169.50
X = 804,323.76

CURVE = EE 14
P.I. = 134+21.70 EE
Y = 468,161.68
X = 804,385.74
DELTA = 7° 08' 55.99" (LT)
D = 5° 43' 46.48"
T = 62.47
L = 124.77
R = 1,000.00
P.C. = 133+59.24 EE
Y = 468,169.50
X = 804,323.76
P.T. = 134+84.01 EE
Y = 468,161.63
X = 804,448.21

CURVE = SF 1
P.I. = 71+35.13 SF
Y = 468,155.75
X = 805,355.73
DELTA = 10° 18' 34.17" (LT)
D = 8° 44' 50.81"
T = 59.09
L = 117.86
R = 655.00
P.C. = 70+76.04 SF
Y = 468,156.40
X = 805,296.65
P.T. = 71+93.89 SF
Y = 468,165.69
X = 805,413.98

CURVE = SF 2
P.I. = 76+36.32 SF
Y = 468,240.11
X = 805,850.10
DELTA = 13° 10' 42.45" (RT)
D = 11° 07' 31.42"
T = 59.49
L = 118.45
R = 515.00
P.C. = 75+76.83 SF
Y = 468,230.10
X = 805,791.46
P.T. = 76+95.28 SF
Y = 468,236.48
X = 805,909.48

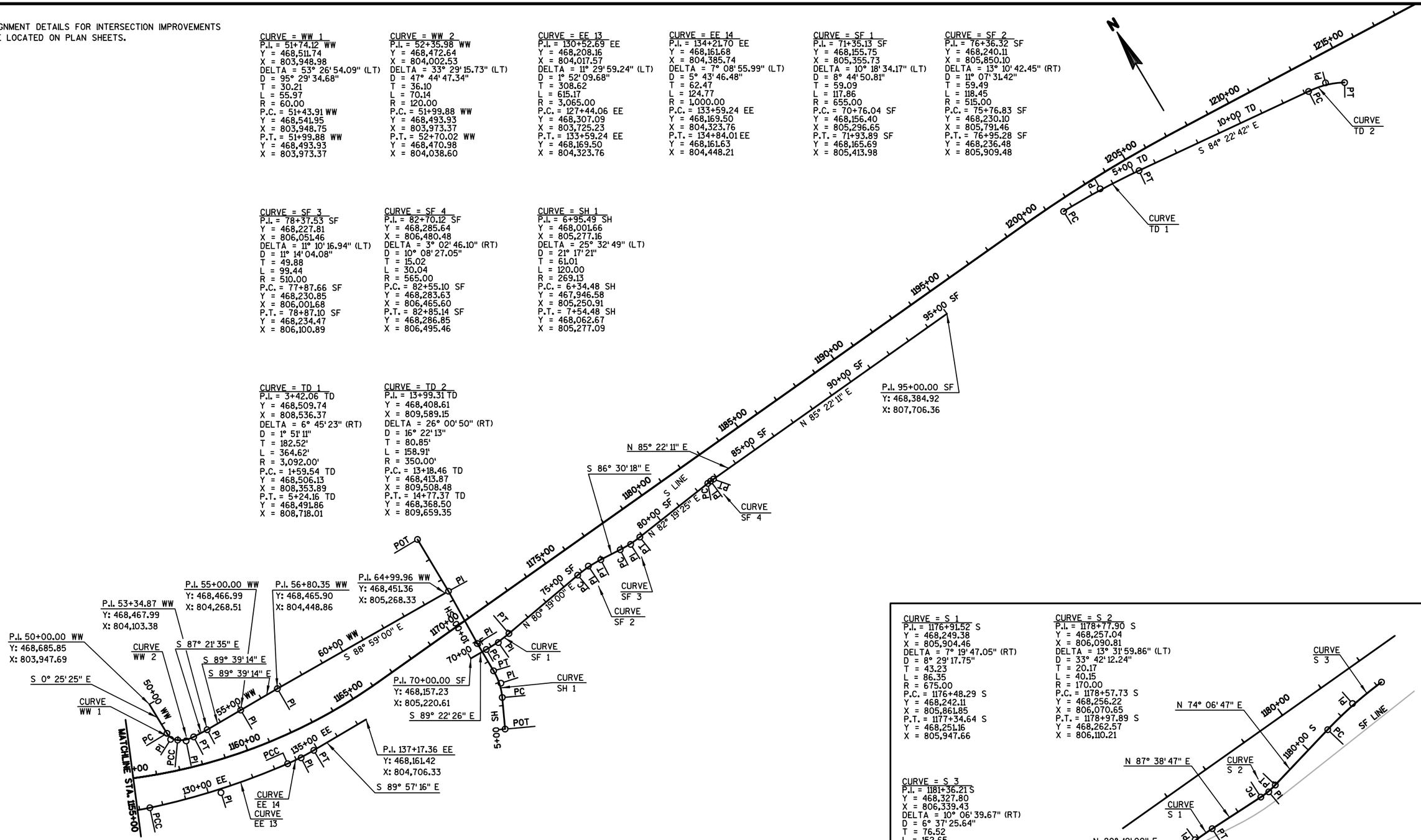
CURVE = SF 3
P.I. = 78+37.53 SF
Y = 468,227.81
X = 806,051.46
DELTA = 11° 10' 16.94" (LT)
D = 11° 14' 04.08"
T = 49.88
L = 99.44
R = 510.00
P.C. = 77+87.66 SF
Y = 468,230.85
X = 806,001.68
P.T. = 78+87.10 SF
Y = 468,234.47
X = 806,100.89

CURVE = SF 4
P.I. = 82+70.12 SF
Y = 468,285.64
X = 806,480.48
DELTA = 3° 02' 46.10" (RT)
D = 10° 08' 27.05"
T = 15.02
L = 30.04
R = 565.00
P.C. = 82+55.10 SF
Y = 468,283.63
X = 806,465.60
P.T. = 82+85.14 SF
Y = 468,286.85
X = 806,495.46

CURVE = SH 1
P.I. = 6+95.49 SH
Y = 468,001.66
X = 805,277.16
DELTA = 25° 32' 49" (LT)
D = 21° 17' 21"
T = 61.01
L = 120.00
R = 269.13
P.C. = 6+34.48 SH
Y = 467,946.58
X = 805,250.91
P.T. = 7+54.48 SH
Y = 468,062.67
X = 805,277.09

CURVE = TD 1
P.I. = 3+42.06 TD
Y = 468,509.74
X = 808,536.37
DELTA = 6° 45' 23" (RT)
D = 1° 51' 11"
T = 182.52'
L = 364.62'
R = 3,092.00'
P.C. = 1+59.54 TD
Y = 468,506.13
X = 808,353.89
P.T. = 5+24.16 TD
Y = 468,491.86
X = 808,718.01

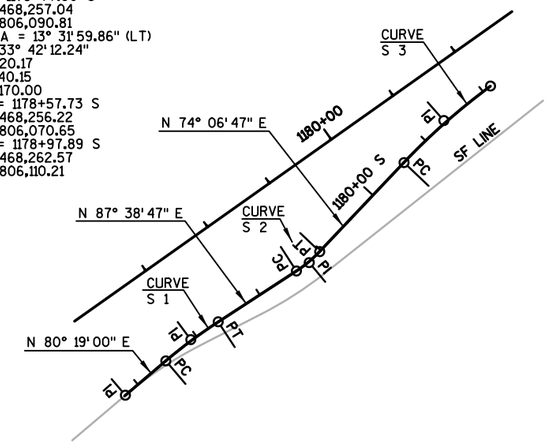
CURVE = TD 2
P.I. = 13+99.31 TD
Y = 468,408.61
X = 809,589.15
DELTA = 26° 00' 50" (RT)
D = 16° 22' 13"
T = 80.85'
L = 158.91'
R = 350.00'
P.C. = 13+18.46 TD
Y = 468,413.87
X = 809,508.48
P.T. = 14+77.37 TD
Y = 468,368.50
X = 809,659.35



CURVE = S 1
P.I. = 1176+91.52 S
Y = 468,249.38
X = 805,904.46
DELTA = 7° 19' 47.05" (RT)
D = 8° 29' 17.75"
T = 43.23
L = 86.35
R = 675.00
P.C. = 1176+48.29 S
Y = 468,242.11
X = 805,861.85
P.T. = 1177+34.64 S
Y = 468,251.16
X = 805,947.66

CURVE = S 2
P.I. = 1178+77.90 S
Y = 468,257.04
X = 806,090.81
DELTA = 13° 31' 59.86" (LT)
D = 33° 42' 12.24"
T = 20.17
L = 40.15
R = 170.00
P.C. = 1178+57.73 S
Y = 468,256.22
X = 806,070.65
P.T. = 1178+97.89 S
Y = 468,262.57
X = 806,110.21

CURVE = S 3
P.I. = 1181+36.21 S
Y = 468,327.80
X = 806,339.43
DELTA = 10° 06' 39.67" (RT)
D = 6° 37' 25.64"
T = 76.52
L = 152.65
R = 865.00
P.C. = 1180+59.69 S
Y = 468,306.86
X = 806,265.83
P.T. = 1182+12.33 S
Y = 468,335.51
X = 806,415.56



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALIGNMENT PLAN - MAINLINE & SIDE ROADS	SHEET 566	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\027205_ad.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

ALIGNMENT DETAILS FOR INTERSECTION IMPROVEMENTS
ARE LOCATED ON PLAN SHEETS.

CURVE = WN 5
P.I. = 87+92.96 WN
Y = 468,530.03
X = 802,201.49
DELTA = 52° 54' 47.21" (RT)
D = 19° 05' 54.94"
T = 149.29
L = 277.05
R = 300.00
P.C. = 86+43.67 WN
Y = 468,648.22
X = 802,292.70
P.T. = 89+20.72 WN
Y = 468,531.52
X = 802,052.20

CURVE = WN 6
P.I. = 89+97.08 WN
Y = 468,532.28
X = 801,975.85
DELTA = 4° 58' 02.57" (RT)
D = 11° 27' 32.96"
T = 21.69
L = 43.35
R = 500.00
P.C. = 89+75.40 WN
Y = 468,532.06
X = 801,997.53
P.T. = 90+18.74 WN
Y = 468,534.37
X = 801,954.26

CURVE = WN 7
P.I. = 91+90.57 WN
Y = 468,550.87
X = 801,783.23
DELTA = 51° 58' 48.28" (LT)
D = 28° 38' 52.40"
T = 97.50
L = 181.44
R = 200.00
P.C. = 90+93.07 WN
Y = 468,541.55
X = 801,880.28
P.T. = 92+74.51 WN
Y = 468,480.15
X = 801,716.10

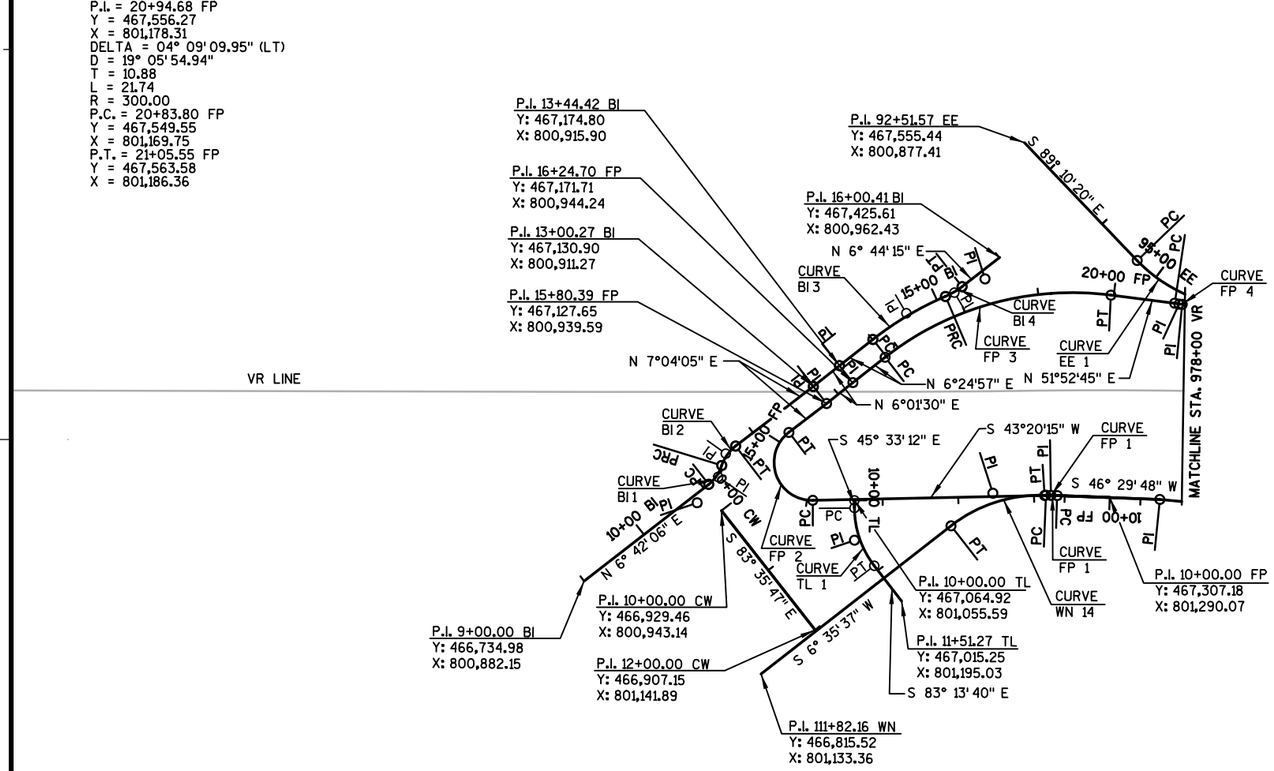
CURVE = WN 14
P.I. = 107+94.99 WN
Y = 467,201.04
X = 801,177.92
DELTA = 40° 05' 02.82" (LT)
D = 29° 50' 29.59"
T = 70.04
L = 134.32
R = 192.00
P.C. = 107+24.95 WN
Y = 467,249.09
X = 801,228.88
P.T. = 108+59.27 WN
Y = 467,131.46
X = 801,169.88

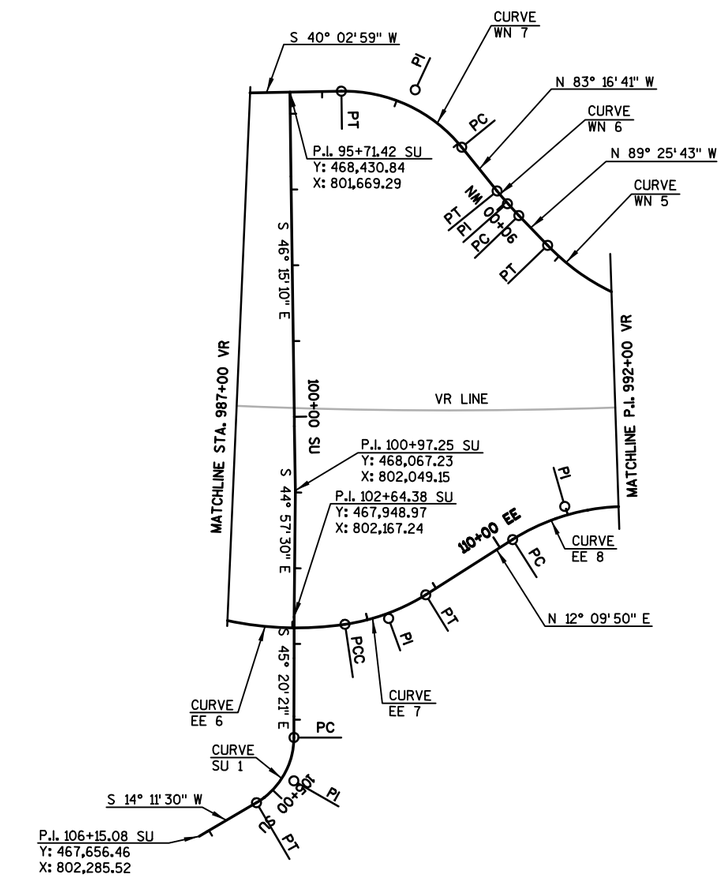
CURVE = FP 1
P.I. = 10+77.70 FP
Y = 467,253.69
X = 801,233.71
DELTA = 3° 09' 32.42" (LT)
D = 19° 05' 54.94"
T = 8.27
L = 16.54
R = 300.00
P.C. = 10+69.43 FP
Y = 467,259.38
X = 801,239.71
P.T. = 10+85.97 FP
Y = 467,247.67
X = 801,228.04

CURVE = FP 2
P.I. = 15+44.89 FP
Y = 466,913.89
X = 800,913.08
DELTA = 143° 43' 50.16" (RT)
D = 114° 35' 29.61"
T = 152.66
L = 125.43
R = 50.00
P.C. = 13+92.23 FP
Y = 467,024.92
X = 801,017.85
P.T. = 15+17.66 FP
Y = 467,065.39
X = 800,931.87

CURVE = FP 3
P.I. = 18+46.41 FP
Y = 467,392.03
X = 800,969.01
DELTA = 45° 27' 48.55" (RT)
D = 14° 19' 26.20"
T = 167.58
L = 317.40
R = 400.00
P.C. = 16+78.83 FP
Y = 467,225.50
X = 800,950.29
P.T. = 19+96.22 FP
Y = 467,495.49
X = 801,100.85

CURVE = FP 4
P.I. = 20+94.68 FP
Y = 467,556.27
X = 801,178.31
DELTA = 04° 09' 09.95" (LT)
D = 19° 05' 54.94"
T = 10.88
L = 21.74
R = 300.00
P.C. = 20+83.80 FP
Y = 467,549.55
X = 801,169.75
P.T. = 21+05.55 FP
Y = 467,563.58
X = 801,186.36





CURVE = BI 1
P.I. = 11+24.20 BI
Y = 466,957.65
X = 800,908.30
DELTA = 35° 07' 26" (LT)
D = 114° 18' 52"
T = 15.86'
L = 30.73'
R = 50.12'
P.C. = 11+08.33 BI
Y = 466,941.89
X = 800,906.46
P.T. = 11+39.06 BI
Y = 466,971.60
X = 800,900.75

CURVE = BI 2
P.I. = 11+55.50 BI
Y = 466,986.27
X = 800,893.34
DELTA = 33° 51' 40" (RT)
D = 106° 06' 12"
T = 16.44'
L = 31.91'
R = 54.00'
P.C. = 11+39.06 BI
Y = 466,971.60
X = 800,900.75
P.T. = 11+70.97 BI
Y = 467,002.58
X = 800,895.36

CURVE = BI 3
P.I. = 14+56.59 BI
Y = 467,286.27
X = 800,928.44
DELTA = 14° 56' 16" (RT)
D = 13° 22' 16"
T = 56.18'
L = 111.71'
R = 428.50'
P.C. = 14+00.42 BI
Y = 467,230.45
X = 800,922.16
P.T. = 15+12.13 BI
Y = 467,388.59
X = 800,948.89

CURVE = BI 4
P.I. = 15+24.95 BI
Y = 467,350.54
X = 800,953.56
DELTA = 14° 36' 57" (LT)
D = 57° 17' 45"
T = 12.82'
L = 25.51'
R = 100.00'
P.C. = 15+12.13 BI
Y = 467,388.59
X = 800,948.89
P.T. = 15+37.64 BI
Y = 467,363.27
X = 800,955.07

CURVE = TL 1
P.I. = 10+52.65 TL
Y = 467,027.25
X = 801,094.03
DELTA = 37° 40' 29" (LT)
D = 45° 50' 12"
T = 42.64'
L = 82.19'
R = 125.00'
P.C. = 10+10.00 TL
Y = 467,057.11
X = 801,063.59
P.T. = 10+92.20 TL
Y = 467,022.22
X = 801,151.12

CURVE = SU 1
P.I. = 104+80.63 SU
Y = 467,796.97
X = 802,321.06
DELTA = 59° 31' 50.46" (RT)
D = 57° 17' 44.81"
T = 57.19
L = 103.90
R = 100.00
P.C. = 104+23.44 SU
Y = 467,837.17
X = 802,280.38
P.T. = 105+27.34 SU
Y = 467,741.52
X = 802,307.03

CURVE = EE 1
P.I. = 95+46.54 EE
Y = 467,551.18
X = 801,172.35
DELTA = 43° 29' 18.70" (LT)
D = 28° 38' 52.40"
T = 79.77
L = 151.80
R = 200.00
P.C. = 94+66.77 EE
Y = 467,552.34
X = 801,092.59
P.T. = 96+18.58 EE
Y = 467,605.24
X = 801,231.01

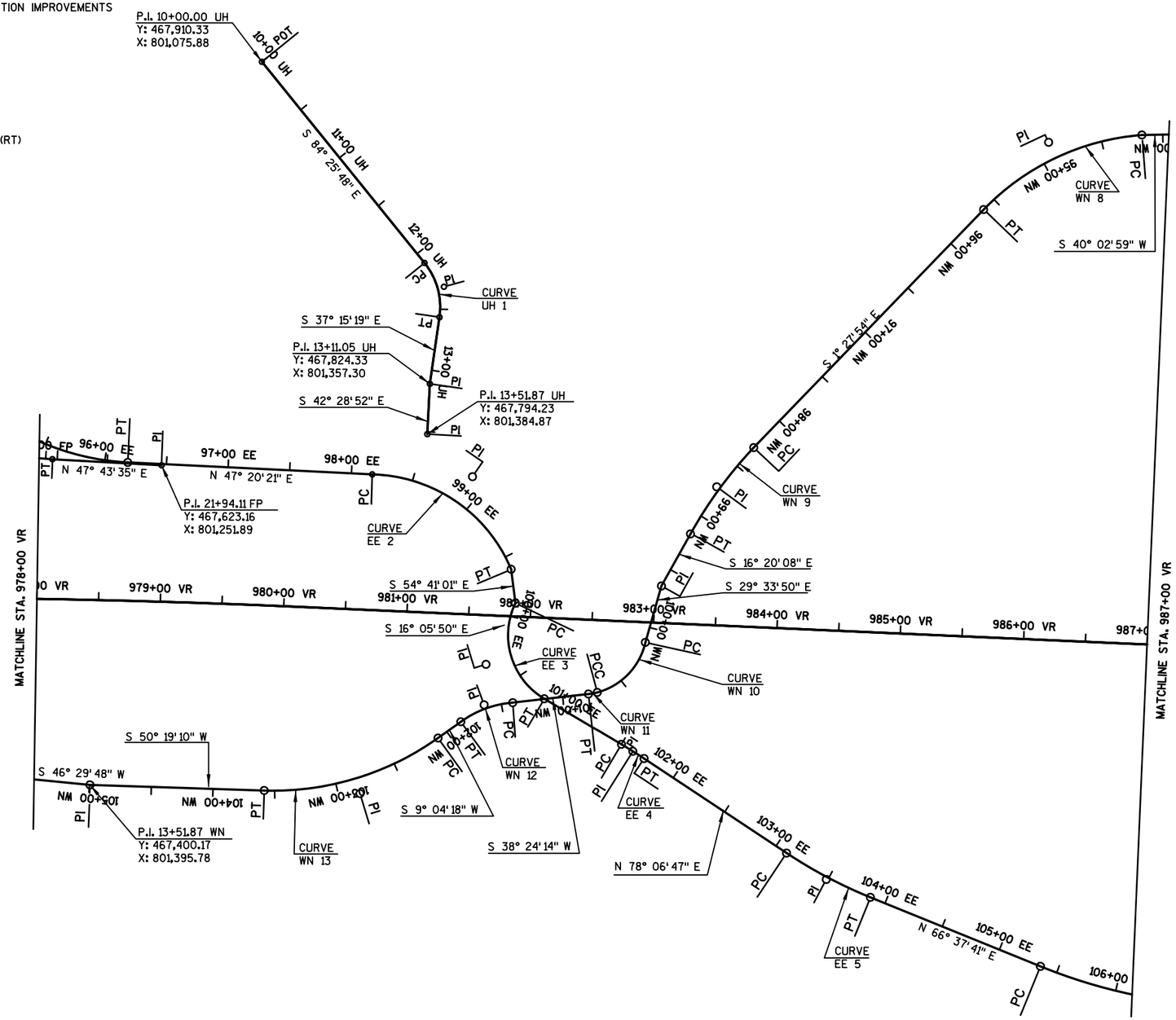
CURVE = EE 6
P.I. = 106+55.55 EE
Y = 467,893.36
X = 802,150.48
DELTA = 30° 26' 46.45" (LT)
D = 13° 01' 18.37"
T = 119.74
L = 233.81
R = 440.00
P.C. = 105+35.81 EE
Y = 467,845.86
X = 802,040.57
P.T. = 107+69.62 EE
Y = 467,990.00
X = 802,221.16

CURVE = EE 7
P.I. = 108+27.57 EE
Y = 468,036.78
X = 802,255.38
DELTA = 23° 23' 12.72" (RT)
D = 20° 27' 46.00"
T = 57.95
L = 114.29
R = 280.00
P.C. = 107+69.62 EE
Y = 467,990.01
X = 802,221.16
P.T. = 108+83.91 EE
Y = 468,093.29
X = 802,268.21

CURVE = EE 8
P.I. = 111+01.41 EE
Y = 468,305.98
X = 802,313.72
DELTA = 32° 29' 36.44" (RT)
D = 20° 27' 46.00"
T = 81.60
L = 158.79
R = 280.00
P.C. = 110+19.81 EE
Y = 468,226.19
X = 802,296.65
P.T. = 111+78.61 EE
Y = 468,364.10
X = 802,370.99

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	ALIGNMENT PLAN - SIDE ROADS	SHEET 567 E

ALIGNMENT DETAILS FOR INTERSECTION IMPROVEMENTS ARE LOCATED ON PLAN SHEETS.



CURVE = UH 1
P.I. = 12+34.43 UH
Y = 467,887.58
X = 801,309.20
DELTA = 47° 10' 29" (RT)
D = 100° 31' 08"
T = 24.89'
L = 46.93'
R = 57.00'
P.C. = 12+09.54 UH
Y = 467,890.00
X = 801,284.43
P.T. = 12+56.48 UH
Y = 467,867.77
X = 801,324.27

CURVE = WN 8
P.I. = 94+92.68 WN
Y = 468,318.87
X = 801,569.31
DELTA = 41° 31' 01.45" (LT)
D = 28° 38' 52.40"
T = 75.81
L = 144.92
R = 200.00
P.C. = 94+16.87 WN
Y = 468,376.90
X = 801,618.09
P.T. = 95+61.80 WN
Y = 468,243.09
X = 801,571.26

CURVE = WN 9
P.I. = 98+73.55 WN
Y = 467,931.45
X = 801,579.72
DELTA = 14° 13' 45.08" (LT)
D = 16° 22' 12.80"
T = 43.69
L = 86.92
R = 350.00
P.C. = 98+29.87 WN
Y = 467,975.11
X = 801,578.11
P.T. = 99+16+79 WN
Y = 467,889.53
X = 801,592.00

CURVE = WN 10
P.I. = 100+45.53 WN
Y = 467,774.23
X = 801,646.96
DELTA = 62° 47' 18.97" (RT)
D = 106° 06' 12.01"
T = 32.95
L = 59.18
R = 54.00
P.C. = 100+12.57 WN
Y = 467,801.88
X = 801,629.02
P.T. = 100+71.75 WN
Y = 467,745.64
X = 801,630.58

CURVE = WN 11
P.I. = 100+75.36 WN
Y = 467,742.50
X = 801,628.79
DELTA = 8° 36' 21.90" (RT)
D = 119° 21' 58.35"
T = 3.61
L = 7.21
R = 48.00
P.C. = 100+71.75 WN
Y = 467,745.64
X = 801,630.58
P.T. = 100+78.96 WN
Y = 467,739.67
X = 801,626.54

CURVE = WN 12
P.I. = 101+64.02 WN
Y = 467,673.63
X = 801,573.76
DELTA = 30° 09' 00.73" (LT)
D = 65° 06' 31.80"
T = 23.70
L = 46.31
R = 88.00
P.C. = 101+40.75 WN
Y = 467,691.99
X = 801,588.75
P.T. = 101+86.09 WN
Y = 467,650.22
X = 801,570.02

CURVE = WN 13
P.I. = 102+86.39 WN
Y = 467,551.17
X = 801,554.21
DELTA = 37° 18' 09.73" (RT)
D = 24° 54' 40.35"
T = 77.63
L = 149.74
R = 230.00
P.C. = 102+08.76 WN
Y = 467,627.83
X = 801,566.44
P.T. = 103+58.50 WN
Y = 467,497.61
X = 801,498.01

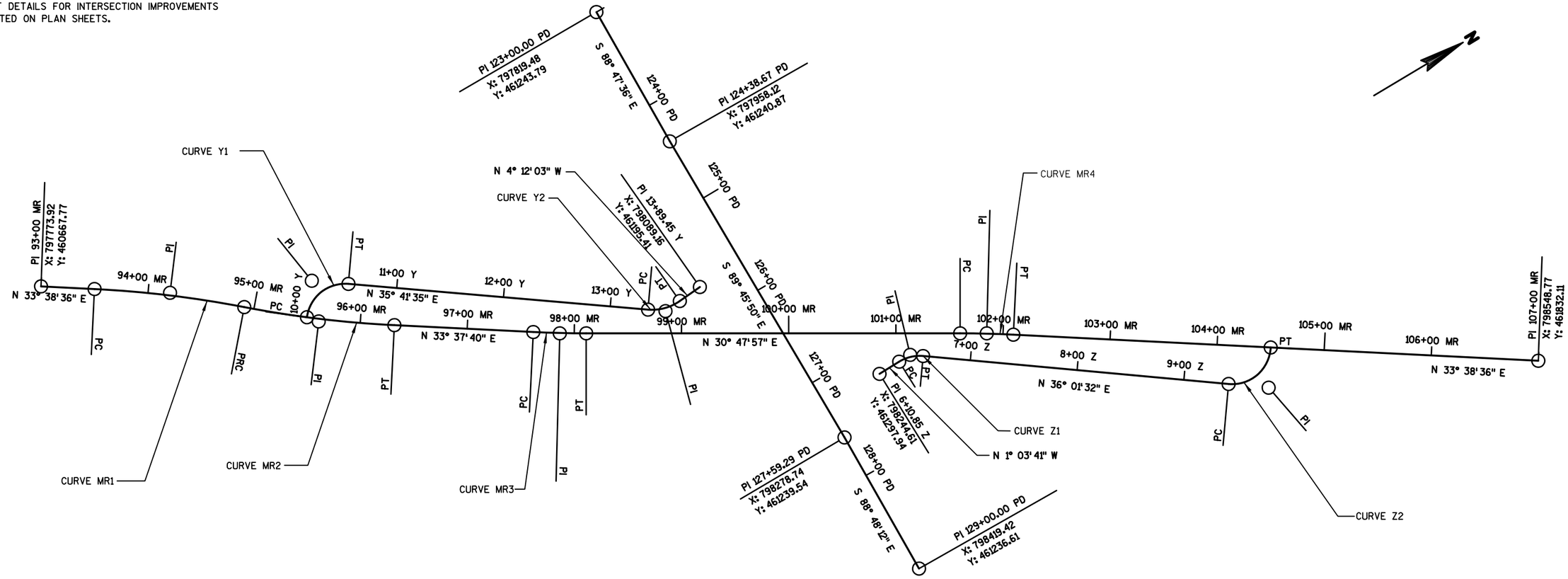
CURVE = EE 2
P.I. = 98+98.11 EE
Y = 467,796.21
X = 801,435.11
DELTA = 66° 03' 24.23" (RT)
D = 45° 50' 11.82"
T = 81.26
L = 144.11
R = 125.00
P.C. = 98+16.84 EE
Y = 467,739.60
X = 801,376.81
P.T. = 99+60.96 EE
Y = 467,765.91
X = 801,510.51

CURVE = EE 3
P.I. = 100+43.63 EE
Y = 467,697.39
X = 801,551.21
DELTA = 84° 59' 27.81" (LT)
D = 95° 29' 34.68"
T = 54.97
L = 89.00
R = 60.00
P.C. = 99+88.66 EE
Y = 467,749.08
X = 801,532.51
P.T. = 100+77.66 EE
Y = 467,711.50
X = 801,604.34

CURVE = EE 4
P.I. = 101+60.90 EE
Y = 467,732.88
X = 801,684.78
DELTA = 2° 59' 27.01" (RT)
D = 13° 50' 22.38"
T = 10.81
L = 21.61
R = 414.00
P.C. = 101+50.09 EE
Y = 467,730.10
X = 801,674.34
P.T. = 101+71.70 EE
Y = 467,735.10
X = 801,780.64

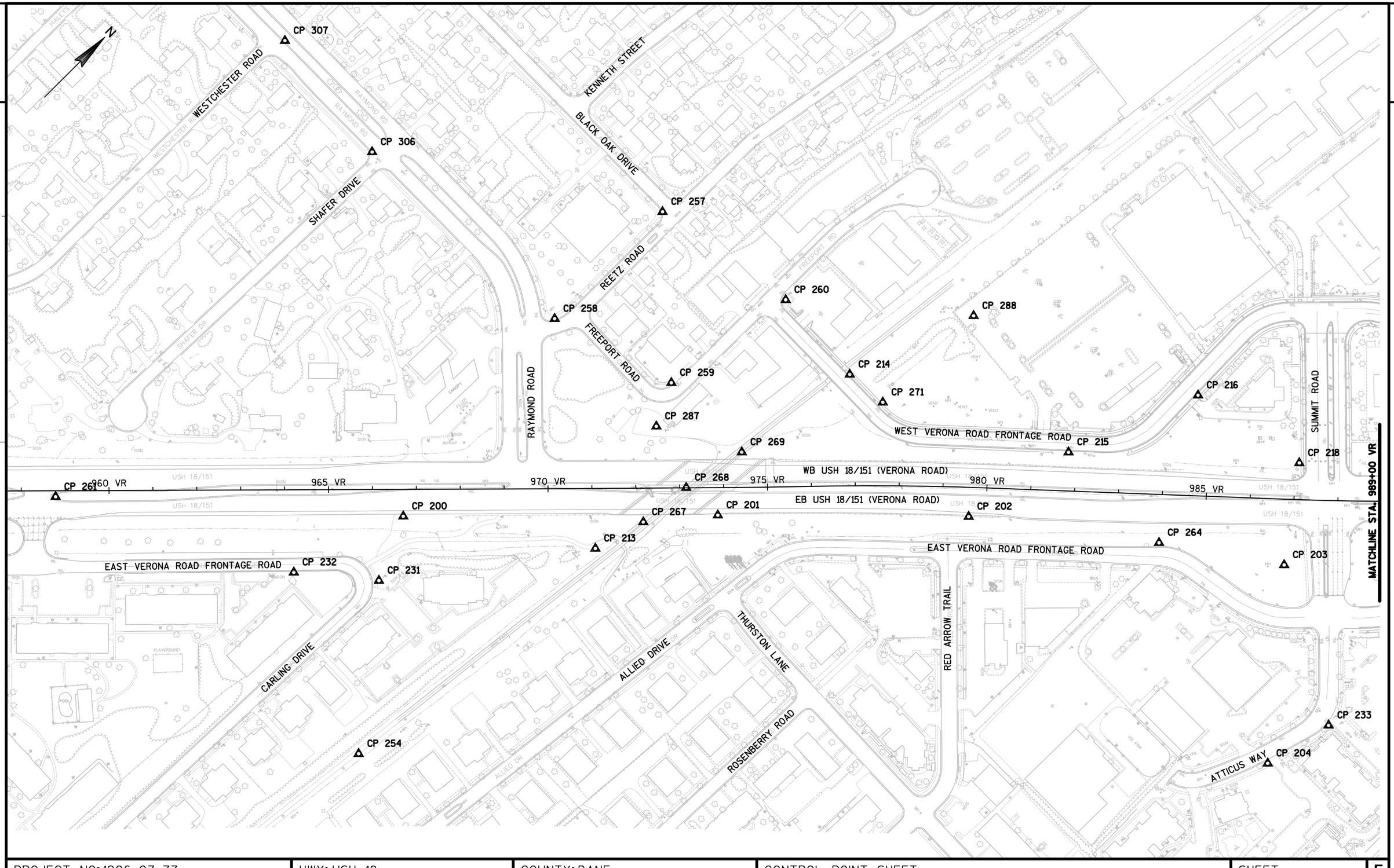
CURVE = EE 5
P.I. = 103+48.85 EE
Y = 467,771.59
X = 801,868.71
DELTA = 11° 29' 07.69" (LT)
D = 14° 55' 14.79"
T = 38.62
L = 76.97
R = 384.00
P.C. = 103+10.23 EE
Y = 467,763.64
X = 801,830.92
P.T. = 103+87.21 EE
Y = 467,786.91
X = 801,751.83

ALIGNMENT DETAILS FOR INTERSECTION IMPROVEMENTS
ARE LOCATED ON PLAN SHEETS.



CURVE MR1	CURVE MR2	CURVE MR3	CURVE MR4
P.I. = 94+20.50 MR	P.I. = 95+61.50 MR	P.I. = 97+86.44 MR	P.I. = 101+84.80 MR
Y = 460,768.09	Y = 460,873.51	Y = 461,061.01	Y = 461,403.19
X = 797,840.68	X = 797,934.65	X = 798,059.36	X = 798,263.33
DELTA = 8° 04' 14" (RT)	DELTA = 8° 05' 09" (LT)	DELTA = 2° 49' 43" (LT)	DELTA = 2° 50' 39" (RT)
D = 5° 43' 46"	D = 5° 43' 46"	D = 5° 43' 46"	D = 5° 43' 46"
T = 70.55'	T = 70.68'	T = 24.69'	T = 24.82'
L = 140.86'	L = 141.13'	L = 49.37'	L = 49.64'
R = 1,000.00'	R = 1,000.00'	R = 1,000.00'	R = 1,000.00'
P.C. = 93+49.96 MR	P.C. = 94+90.82 MR	P.C. = 97+61.75 MR	P.C. = 101+59.98 MR
P.T. = 94+90.82 MR	P.T. = 96+31.94 MR	P.T. = 98+11.12 MR	P.T. = 102+09.62 MR

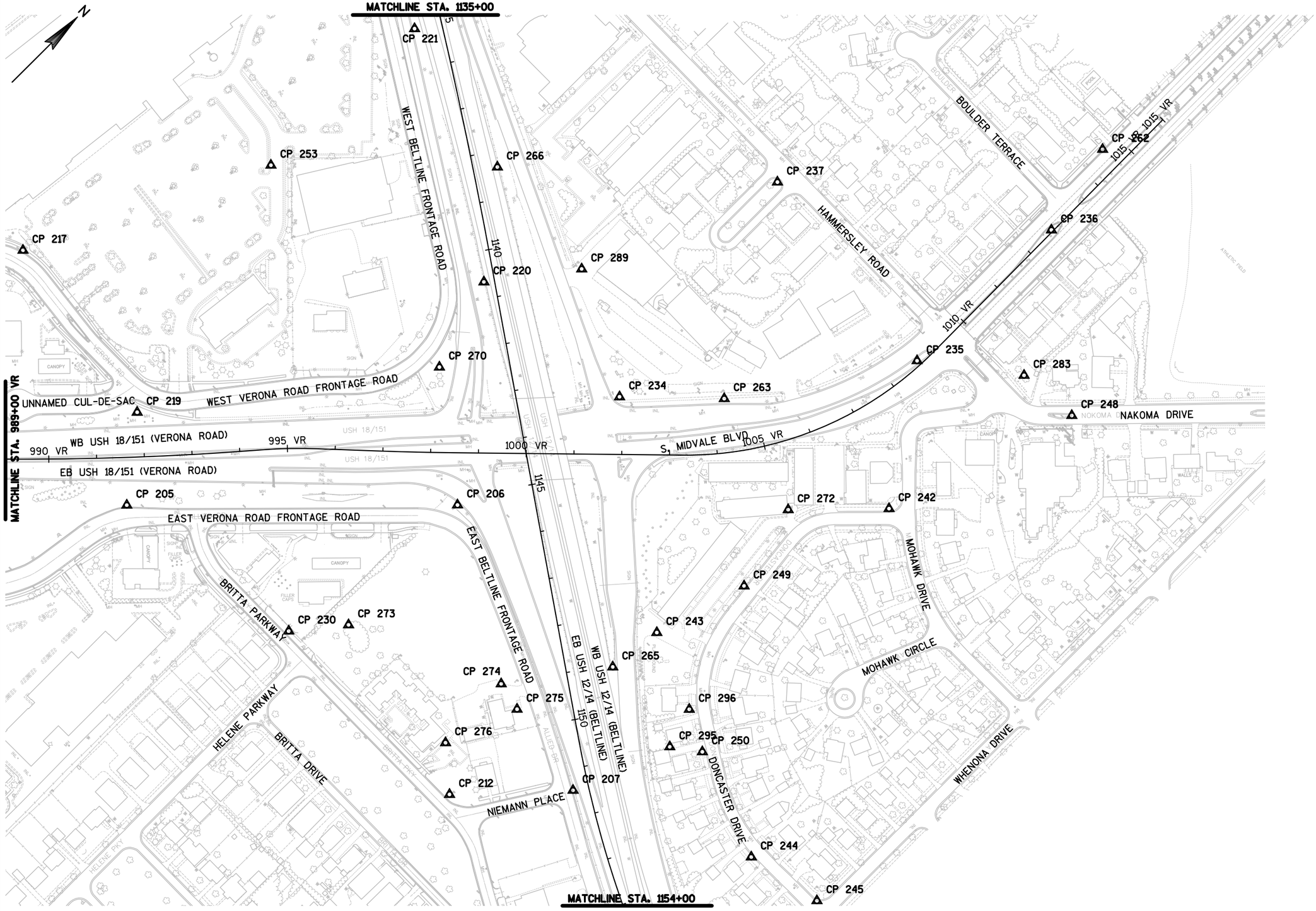
CURVE Y1	CURVE Y2	CURVE Z1	CURVE Z2
P.I. = 10+34.32 Y	P.I. = 13+51.71 Y	P.I. = 6+44.50 Z	P.I. = 9+79.48 Z
Y = 460,887.40	Y = 461,156.39	Y = 461,331.58	Y = 461,603.19
X = 797,898.79	X = 798,092.02	X = 798,243.99	X = 798,441.51
DELTA = 87° 15' 55" (RT)	DELTA = 39° 53' 38" (LT)	DELTA = 37° 05' 14" (RT)	DELTA = 92° 22' 57" (LT)
D = 159° 09' 18"	D = 127° 19' 26"	D = 159° 09' 18"	D = 159° 09' 18"
T = 34.32'	T = 16.33'	T = 12.08'	T = 37.53'
L = 54.83'	L = 31.33'	L = 23.30'	L = 58.05'
R = 36.00'	R = 45.00'	R = 36.00'	R = 36.00'
P.C. = 10+00.00 Y	P.C. = 13+35.38 Y	P.C. = 6+32.42 Z	P.C. = 9+41.95 Z
P.T. = 10+54.83 Y	P.T. = 13+66.71 Y	P.T. = 6+55.72 Z	P.T. = 10+00.00 Z



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONTROL POINT SHEET	SHEET 570	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CONTROL POINTS\027301_CP.DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : *********

2



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONTROL POINT SHEET	SHEET 571	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CONTROL POINTS\027301_CP.DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : *********

2

2

N

MOHAWK DRIVE

WHENONA DR

CP 244

CP 245

DONCASTER DRIVE

WHENONA DRIVE

DANBURY STREET

CP 282

CP 247

CP 284 WARWICK WAY

CP 277

MINNESOTA LN

SEMINOLE HWY

MATCHLINE STA. 1154+00

CP 246

1155

1160

1165

1170

1175

1180

1185

WB USH 12/14/18/151 (BELTLINE)

EB USH 12/14/18/151 (BELTLINE)

USH 12/14/18/151

CP 278

CP 208

CP 209

CP 279

CP 290

EAST BELTLINE FRONTAGE ROAD

BRITTA PARKWAY

CP 210

CP 280

CP 281

LUMLEY RD

AXEL AVENUE

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONTROL POINT SHEET	SHEET 572	E

2

2

N

CP 256

CP 241

STARLIGHT DRIVE

PONTIAC TRAIL

CP 251

CP 238

CP 286

HAMMERSLEY RD

CP 240

CP 285

HAMMERSLEY ROAD

CP 239

MATCHLINE STA. 1105+00

1110

1115

1120

1125

WB USH 12/14 (BELTLINE)

1130

MATCHLINE STA. 1135+00

EB USH 12/14 (BELTLINE)

CP 222

WEST BELTLINE FRONTAGE ROAD

LORUTH TERRACE

WHITCOMB DRIVE

WHITCOMB CIRCLE

CP 252

HAMMERSLEY ROAD

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONTROL POINT SHEET	SHEET 573	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CONTROL POINTS\027301_CP.DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : ********

WISDOT/CADDS SHEET 42

2

2

N

CONEY WESTON PLAZA

MILWARD DRIVE

S WHITNEY WAY

CP 291

CP 292

CP 293

CP 294

CP 227

CP 228

CP 226

CP 225

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

1075

1080

1085

1090

1095

1100

MATCHLINE STA. 1105+00

SCHROEDER ROAD

S WHITNEY WAY

LORUTH TERRACE

LORUTH TER

GOLF COURSE

GOLF GREEN

PROJECT NO:1206-07-77	HWY:USH 18	COUNTY:DANE	CONTROL POINT SHEET	SHEET 574	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CONTROL POINTS\027301_CP.DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 42

2

N

CP 403

CP 402

CTH D (FISH HATCHERY ROAD)

CP 400

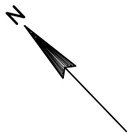
CTH M

CP 401

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONTROL POINT SHEET	SHEET 575	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CONTROL POINTS\027301_CP.DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 42



PT #	Y	X	DESCRIPTION
200	466,626.27	800,509.85	5/8IN RB KL CAP
201	467,135.52	801,013.83	5/8IN RB KL CAP
202	467,537.89	801,419.60	5/8IN RB KL CAP
203	467,969.07	802,005.04	5/8IN RB KL CAP
204	467,623.35	802,298.81	5/8IN RB KL CAP
205	468,347.40	802,313.36	5/8IN RB KL CAP
206	468,837.91	802,801.80	5/8IN RB KL CAP
207	468,587.52	803,395.47	5/8IN RB KL CAP
208	468,304.33	803,890.89	5/8IN RB KL CAP
209	468,208.18	804,436.12	5/8IN RB KL CAP
210	468,062.66	803,929.74	5/8IN RB KL CAP
211	468,241.41	803,580.26	MAG NAIL
212	468,398.32	803,219.05	5/8IN RB KL CAP
213	466,884.41	800,870.59	5/8IN RB KL CAP
214	467,574.76	800,998.86	5/8IN RB KL CAP
215	467,802.63	801,476.25	5/8IN RB KL CAP
216	468,103.19	801,592.57	5/8IN RB KL CAP
217	468,570.12	801,782.14	5/8IN RB KL CAP
218	468,157.61	801,864.79	5/8IN RB KL CAP
219	468,500.08	802,190.98	5/8IN RB KL CAP
220	469,206.71	802,510.16	5/8IN RB KL CAP
221	469,478.12	802,032.27	5/8IN RB KL CAP
222	469,863.69	801,288.02	5/8IN RB KL CAP
223	464,444.98	801,435.81	5/8IN RB KL CAP
224	464,481.77	801,678.70	5/8IN RB KL CAP
225	471,593.62	798,858.87	MAG NAIL
226	471,657.55	798,764.31	MAG NAIL
227	472,225.75	797,985.26	5/8IN RB KL CAP
228	472,162.31	798,069.72	5/8IN RB KL CAP
229	464,215.83	801,281.12	5/8IN RB KL CAP
230	468,401.34	802,739.32	5/8IN RB KL CAP
231	466,483.57	800,574.29	5/8IN RB KL CAP
232	466,359.44	800,424.14	MAG NAIL
233	467,782.72	802,335.33	5/8IN RB KL CAP
234	469,237.97	802,880.90	5/8IN RB KL CAP
235	469,732.24	803,267.12	MAG NAIL
236	470,124.63	803,271.80	5/8IN RB KL CAP
237	469,789.31	802,795.89	5/8IN RB KL CAP
238	469,856.21	802,124.42	5/8IN RB KL CAP
239	469,760.28	801,826.83	5/8IN RB KL CAP
240	470,088.39	801,291.77	MAG NAIL
241	470,467.97	801,310.91	5/8IN RB KL CAP
242	469,472.19	803,444.88	5/8IN RB KL CAP
243	468,944.85	803,285.40	5/8IN RB KL CAP
244	468,753.15	803,757.69	5/8IN RB KL CAP
245	468,785.90	803,919.48	MAG NAIL
246	468,451.44	804,000.69	5/8IN RB KL CAP
247	468,482.17	804,428.32	MAG NAIL
248	469,880.63	803,576.92	MAG NAIL
249	469,142.98	803,345.34	5/8IN RB KL CAP
250	468,836.08	803,529.48	5/8IN RB KL CAP
251	470,006.03	801,877.13	5/8IN RB KL CAP
252	469,874.95	800,611.02	5/8IN RB KL CAP
253	469,063.42	802,022.42	MAG NAIL

PT #	Y	X	DESCRIPTION
254	466,172.09	800,821.22	MAG NAIL
255	471,157.71	801,533.75	MAG NAIL
256	470,710.31	801,340.88	MAG NAIL
257	467,534.48	800,435.16	MAG NAIL
258	467,188.41	800,434.37	5/8IN RB KL CAP
259	467,273.56	800,725.33	5/8IN RB KL CAP
260	467,591.51	800,775.46	5/8IN RB KL CAP
261	466,096.77	799,919.18	5/8IN RB KL CAP
262	470,319.65	803,227.91	CHIS X
263	469,390.45	803,038.27	5/8IN RB KL CAP
264	467,802.93	801,767.92	5/8IN RB KL CAP
265	468,828.61	803,271.30	5/8IN RB KL CAP
266	469,396.38	802,359.75	MAG NAIL
267	467,004.18	800,905.20	60D NAIL
268	467,128.85	800,918.52	60D NAIL
269	467,275.52	800,950.68	60D NAIL
270	469,014.88	802,570.69	5/8IN RB KL CAP
271	467,583.17	801,097.02	NAIL
272	469,321.02	803,297.48	MAG NAIL
273	468,499.22	802,818.44	MAG NAIL
274	468,638.31	803,131.52	MAG NAIL
275	468,624.36	803,192.59	60D NAIL
276	468,468.81	803,136.53	MAG NAIL
277	468,455.01	805,412.87	5/8IN RB KL CAP
278	468,193.70	805,199.80	5/8IN RB KL CAP
279	468,140.27	804,775.42	5/8IN RB KL CAP
280	467,849.27	804,439.09	MAG NAIL
281	467,883.15	803,991.97	MAG NAIL
282	468,565.62	803,812.10	60D NAIL
283	469,869.23	803,446.84	60D NAIL
284	468,446.55	804,822.39	MAG NAIL
285	469,958.77	801,498.01	MAG NAIL
286	470,119.65	801,530.46	MAG NAIL
287	467,179.33	800,771.48	MAG NAIL
288	467,868.95	801,103.45	MAG NAIL
289	469,370.76	802,635.43	MAG NAIL
290	468,142.26	804,508.70	5/8IN RB KL CAP
291	473,067.16	797,297.90	5/8IN RB KL CAP
292	473,038.31	797,441.62	5/8IN RB KL CAP
293	472,722.03	797,784.76	60D NAIL
294	472,645.66	797,972.56	60D NAIL
295	468,795.19	803,474.01	6IN NAIL
296	468,879.49	803,447.19	6IN NAIL
300	467,113.87	802,757.04	60D NAIL
301	466,971.28	802,623.26	MAG NAIL
302	472,448.01	799,942.99	60D NAIL
303	472,942.97	799,895.23	60D NAIL
304	463,515.65	799,574.67	MAG NAIL
305	463,429.45	799,359.30	MAG NAIL
306	467,162.15	799,871.61	MAG NAIL
307	467,200.58	799,551.71	60D NAIL
400	437,587.07	806,951.92	5/8IN RB KL CAP
401	437,504.72	807,514.12	5/8IN RB KL CAP
402	438,226.30	807,012.20	MAG NAIL
403	438,603.09	806,974.74	5/8IN RB KL CAP

PT #	Y	X	DESCRIPTION
4870	461,259.35	807,725.60	FITCHBURG N GPS
4915	475,269.55	789,792.07	MIDDLETON GPS
4976	453,117.75	786,609.60	VERONA E GPS
4977	460,396.29	771,180.75	VERONA N GPS

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CONTROL POINT SHEET	SHEET 576	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CONTROL POINTS\027301_CP.DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : *********

WISDOT/CADDS SHEET 42

CPM PROGRESS SCHEDULE

CATEGORY	PROJECT ID	108.4400 EACH
0010	1206-00-72	0.09

MOBILIZATION

CATEGORY	PROJECT ID	619.1000 EACH
0010	1206-00-72	0.09

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\030201_mq.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 43

CLEARING AND GRUBBING SUMMARY

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	201.0105 CLEARING STA	201.0120 CLEARING ID	201.0205 GRUBBING STA	201.0220 GRUBBING ID
0010	N-13-4	78+00 K - 80+00 K	LT	2	---	2	---
		SUBTOTALS		2	0	2	0
	BELTLINE STORM	1119+00 - 1127+00	LT	8	---	8	---
		SUBTOTALS		8	0	8	0
	N-13-2	1158+00 - 1166+00	LT	8	---	8	---
		SUBTOTALS		8	0	8	0
	WEST BELTLINE FRONTAGE ROAD	71+00 SF - 84+00 SF	RT	13	---	13	---
		SUBTOTALS		13	0	13	0
	VERONA ROAD	974+00 VR - 980+00 VR	LT	6	---	6	---
		989+00 VR - 991+00 VR	RT/LT	2	---	2	---
		992+00 VR - 994+00 VR	RT	2	---	2	---
		94+00 EE - 97+00 EE	LT	3	---	3	---
		SUBTOTALS		13	0	13	0
	U-HAUL PARKING LOT	10+54 UH	3' LT	---	6	---	6
		10+70 UH	12' RT	---	6	---	6
		11+15 UH	14' RT	---	6	---	6
		11+39 UH	14' RT	---	6	---	6
		11+80 UH	15' RT	---	6	---	6
		12+55 UH	2' LT	---	6	---	6
		12+70 UH	18' LT	---	6	---	6
		SUBTOTALS		0	42	0	42
	FREEPORT ROAD	12+00 FP - 15+00 FP	LT/RT	3	---	3	---
		10+00 BI - 11+00 BI	LT/RT	1	---	1	---
		SUBTOTALS		4	0	4	0
	NIEMANN PL	18+24 BP	23' RT	---	30	---	30
		SUBTOTALS		0	30	0	30
	WARWICK WAY	51+00 WW - 52+00 WW	LT	1	---	1	---
		SUBTOTALS		1	0	1	0
		SUBTOTALS (0010)		49	72	49	72
0020	CTH M & FISH HATCHERY	105+15 FHM	33' LT	---	10	---	10
		SUBTOTALS		0	10	0	10
	FISH HATCHERY & WHALEN	97+00 FHW - 100+00 FHW	LT	3	---	3	---
		107+89 FHW	36' LT	---	20	---	20
		108+06 FHW	38' RT	---	10	---	10
		SUBTOTALS		3	30	3	30
	SEMINOLE & CTH PD	94+59 PD	3' RT	---	3	---	3
		95+62 PD	1' RT	---	3	---	3
		SUBTOTALS		0	6	0	6
	SEMINOLE & SENTINEL	98+00 SS - 99+00 SS	LT	1	---	1	---
		SUBTOTALS		1	0	1	0
		SUBTOTALS (0020)		4	46	4	46
			TOTALS	53	118	53	118

NOTE: SEE ITEM 616.0700.S, FENCE SAFETY, FOR TREE PROTECTION AREAS.

CPM PROGRESS SCHEDULE

CATEGORY	PROJECT ID	108.4400 EACH
0010	1206-07-77	0.75

REMOVING SMALL PIPE CULVERTS

CATEGORY	PROJECT LOCATION	STATION	LOCATION	203.0100 EACH	REMARKS
0010	FREEPORT ROAD	14+60 FP	LT	1	12"x75' CONCRETE
		15+55 FP	LT	1	12" CORRUGATED (PARTIAL REMOVAL)
		11+00 BI	LT	1	12"x21' METAL
		SUBTOTALS (0010)		3	
0020	CTH M & FISH HATCHERY	95+37 MFH	RT	1	18"x31' CONCRETE
		97+95 MFH	LT	1	18"x31' CONCRETE
		103+59 MFH	LT	1	18"x34' CONCRETE
		104+12 MFH	LT	1	18"x25' METAL
		106+62 MFH	LT	1	18"x31' CONCRETE
		95+85 FHM	LT	1	18"x23' METAL
		97+68 FHM	LT	1	18"x22' METAL
		97+84 FHM	RT	1	18"x21' METAL
		98+86 FHM	RT	1	18"x31' CONCRETE
		101+69 FHM	LT	1	18"x34' CONCRETE
		104+97 FHM	RT	1	18"x30' METAL
		SUBTOTALS		11	
	FISH HATCHERY & WHALEN	98+45 WFH	RT	1	18"x26' METAL
		99+38 WFH	RT/LT	1	30"x42' METAL
		99+55 FHW	RT/LT	1	30"x54' METAL
		108+72 FHW	LT	1	18"x51' METAL
		SUBTOTALS		4	
	SEMINOLE & LACY	91+90 SL	RT	1	18"x20' METAL
		92+64 SL	RT/LT	1	31"x49"x38' METAL
		94+43 SL	RT/LT	1	24"x24"x39' CONCRETE
		106+35 SL	LT	1	12"x30' METAL
		SUBTOTALS		4	
		SUBTOTALS (0020)		19	
			TOTAL	22	

REMOVING PAVEMENT SUMMARY

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	204.0105 REMOVING PAVEMENT BUTT JOINT SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	DESCRIPTION
0010	WEST BELTLINE	1026+10 - 1034+75	LT	---	---	---	2,450	
	WIDENING	1065+75 - 71+81 L	LT	---	---	---	860	
		SUBTOTALS		0	0	0	3,310	
	BELTLINE STORM	1125+24 - 1125+51	LT	45	---	---	---	
	SEWER CROSSING	1125+45 - 1125+60	RT	60	---	---	---	
		1126+25 - 1126+47	LT	50	---	---	---	
		1126+31 - 1126+54	RT	80	---	---	---	
		SUBTOTALS		235	0	0	0	
	N-13-2	1163+19 - 1177+35	LT	---	---	---	1,650	SHOULDER
		SUBTOTALS		0	0	0	1,650	
	SAND & TRASH	1187+25 - 1210+00	LT	---	---	---	3,150	MEDIAN SHOULDER
	COLLECTOR	1192+59 - 1197+34	LT	---	---	---	310	OUTSIDE SHOULDER
		SUBTOTALS		0	0	0	3,460	
	B-13-664	1160+43 - 1177+20	RT	---	---	---	2,000	SHOULDER
		SUBTOTALS		0	0	0	2,000	
	WEST BELTLINE	1166+41 - 1198+00	LT	---	---	---	4,100	SHOULDER
	FRONTAGE ROAD	74+59 SF - 82+58 SF	LT/RT	950	---	---	---	CONCRETE CORRUGATED MEDIAN
		SUBTOTALS		950	0	0	4,100	
	VERONA RD	975+15 VR - 975+65 VR	LT	---	200	---	---	
		986+20 VR - 987+16 VR	LT	85	---	---	---	
		986+85 VR - 988+84 VR	LT	---	990	---	---	
		997+30 VR - 997+80 VR	LT	---	260	---	---	
		98+73 SU - 98+88 SU	RT	100	---	---	---	
		98+74 SU - 98+89 SU	LT	80	---	---	---	
		SUBTOTALS		265	1,250	0	0	
	FREEPORT RD	11+07 FP - 12+17 FP	LT	---	---	---	1,530	
		SUBTOTALS		0	0	0	1,530	
		SUBTOTALS (0010)		1,450	1,250	0	16,050	
0020	CTH PB	91+49 PB - 91+74 PB	RT	---	---	---	65	
	& CTH M	93+39 PB - 93+64 PB	RT	---	---	---	65	
		95+61 PB - 95+90 PB	RT	---	---	---	80	
		104+57 PB - 104+85 PB	LT	---	---	---	70	
		106+61 PB - 106+89 PB	LT	---	---	---	70	
		86+66 MPB - 86+96 MPB	RT	---	---	---	50	
		93+96 MPB - 94+26 MPB	RT	---	---	---	50	
		95+73 MPB - 95+98 MPB	RT	---	---	---	40	
		103+94 MPB - 104+19 MPB	LT	---	---	---	40	
		106+25 MPB - 106+50 MPB	LT	---	---	---	40	
		112+20 MPB - 112+47 MPB	LT	---	---	---	40	
		SUBTOTALS		0	0	0	610	
	CTH M &	93+30 MFH - 93+80 MFH	LT/RT	---	---	170	---	
	FISH HATCHERY	94+02 MFH - 94+30 MFH	RT	---	---	---	45	
		95+76 MFH - 96+04 MFH	RT	---	---	---	60	
		103+70 MFH - 103+96 MFH	LT	---	---	---	45	
		105+06 MFH - 105+56 MFH	LT/RT	---	---	170	45	
		94+81 FHM - 95+31 FHM	LT/RT	---	---	120	---	
		105+20 FHM - 105+70 FHM	LT/RT	---	---	120	---	
		SUBTOTALS		0	0	580	195	

CON'T ABOVE

REMOVING PAVEMENT SUMMARY (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0100 REMOVING PAVEMENT SY	204.0105 REMOVING PAVEMENT BUTT JOINT SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	DESCRIPTION
	FISH HATCHERY	95+84 FHW - 96+34 FHW	LT/RT	---	---	120	---	
	& WHALEN	SHAMROCK LN	LT/RT	---	---	120	---	
		99+50 WFH - 99+59 WFH	LT/RT	---	---	120	---	
		100+02 WFH - 100+12 WFH	LT/RT	---	---	200	---	
		SUBTOTALS		0	0	560	0	
	SEMINOLE	90+54 SL - 91+04 SL	LT/RT	---	---	130	---	
	& LACY	106+53 SL - 107+03 SL	LT/RT	---	---	160	---	
		98+50 LR - 99+00 LR	LT/RT	---	---	120	---	
		103+02 LR - 103+52 LR	LT/RT	---	---	180	---	
		SUBTOTALS		0	0	590	0	
	SEMINOLE & SENTINEL	98+16 SP	RT	25	---	---	---	
		SUBTOTALS		25	0	0	0	
	SEMINOLE & YUMA	98+71 N - 100+68 N	LT/RT	---	---	---	1,200	
		SUBTOTALS		0	0	0	1,200	
		SUBTOTALS (0020)		25	0	1,730	2,005	
			TOTALS	1,475	1,250	1,730	18,055	

REMOVING CONCRETE BARRIER

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0157 LF
0010	B-13-664	1166+41 - 1171+86	MED RT	550
		1167+50 - 1175+47	MED LT	800
		SUBTOTAL		1,350
	WEST BELTLINE	1192+57 - 1193+73	RT	120
	FRONTAGE ROAD	76+02 SF - 77+29 SF	RT	120
		SUBTOTAL		240
	SAND & TRASH			
	COLLECTOR	1192+69 - 1197+24	LT	480
		SUBTOTAL		480
	TODD DRIVE			
	STORM SEWER	11+08 TD - 11+54 TD	RT	45
		SUBTOTAL		45
	ITS	DMS-13-0032/0033	MED	170
		DMS-13-0034/0035	MED	170
		SUBTOTAL		340
			TOTAL	2,455

REMOVING CURB AND GUTTER SUMMARY

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB AND GUTTER LF	DESCRIPTION
0010	WEST BELTLINE					
	WIDENING	76+15 L - 76+24 L	LT	---	9	
		SUBTOTALS		0	9	
	BELTLINE STORM	1125+46 - 1125+58	RT	---	10	
	SEWER CROSSING	1126+31 - 1126+54	RT	---	25	
		1126+21 - 1128+02	LT	---	260	
		SUBTOTALS		0	295	
	B-13-664	8+72 SH - 9+20 SH	LT/RT	---	110	
		10+78 SH - 11+31 SH	LT/RT	---	110	
		SUBTOTALS		0	220	
	WEST BELTLINE	71+44 SF - 71+58 SF	LT	15	---	SAW BACK OF CURB FOR NEW E.A.T.
	FRONTAGE ROAD	73+50 SF - 1179+86 S	LT	---	630	
		73+50 SF - 76+02 SF	RT	---	250	
		77+28 SF - 83+75 SF	RT	---	650	
		80+65 SF - 85+32 SF	LT	---	470	
		83+76 SF - 83+95 SF	RT	20	---	SAW BACK OF CURB FOR CURB RAMP
		SUBTOTALS		35	2,000	
	VERONA RD	84+93 EE - 85+01 EE	LT/RT	15	---	SAW BACK OF CURB FOR CURB RAMP
		94+94 EE - 95+26 EE	LT	---	30	
		98+11 EE - 98+49 EE	LT	---	40	
		116+71 EE - 117+09 EE	LT	---	60	
		98+54 WN - 99+11 WN	LT/RT	---	75	
		107+17 WN - 107+49 WN	LT	---	30	
		988+99 VR - 991+24 VR	LT	---	250	STORM SEWER CROSSING CUL-DE-SAC
		SUBTOTALS		15	485	
	FREEPORT ROAD	11+11 FP - 21+47 FP	LT/RT	---	370	
		10+16 TL - 10+97 TL	LT/RT	---	55	
		10+06 CW - 11+87 CW	LT/RT	---	20	
		SUBTOTALS		0	445	
	NIEMANN PL	17+96 BP - 19+81 BP	LT/RT	---	280	
		10+00 NP - 10+93 NP	LT/RT	---	220	
		121+73 EE - 121+84 EE	RT	---	10	
		SUBTOTALS		0	510	
	U-HAUL PARKING LOT	10+00 UH - 13+50 UH	LT/RT	---	1,500	
		SUBTOTALS		0	1,500	
	WARWICK WAY	56+59 WW - 56+67 WW	RT	8	---	SAW BACK OF CURB FOR CURB RAMP
		63+69 WW - 63+77 WW	RT	8	---	SAW BACK OF CURB FOR CURB RAMP
		50+75 WW - 53+50 WW	LT	---	270	
		50+75 WW - 53+50 WW	RT	---	320	
		SUBTOTALS		16	590	
		SUBTOTALS (0010)		66	6,054	

CON'T ABOVE

REMOVING CURB AND GUTTER SUMMARY (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB AND GUTTER LF	DESCRIPTION
0020	CTH PB	101+54 PB - 105+26 PB	LT	---	370	
	& CTH M	101+12 MPB - 101+15 MPB	LT	---	3	
		SUBTOTALS		0	373	
	CTH M &	99+29 MFH - 99+33 FHM	RT/LT	---	70	
	FISH HATCHERY	99+30 MFH - 100+74 FHM	LT	---	80	
		99+33 FHM - 100+71 MFH	RT	---	80	
		100+65 FHM - 100+68 MFH	RT/LT	---	65	
		SUBTOTALS		0	295	
	SEMINOLE & CTH PD	93+47 PD - 98+00 PD	RT	---	450	
		SUBTOTALS		0	450	
	SEMINOLE	95+87 SS - 99+77 SS	LT	---	400	
	& SENTINEL	100+24 SS - 103+27 SS	LT	---	310	
		97+10 SP - 99+57 SP	RT	---	260	
		99+01 SP - 99+58 SP	LT/RT	---	150	
		SUBTOTALS		0	1,120	
	SEMINOLE & NAKOMA	99+06 N - 99+50 N	LT/RT	---	130	
		SUBTOTALS		0	130	
		97+11 W - 98+55 W	RT	---	160	
	WHITNEY & GILBERT	100+00 W - 102+62 W	RT	---	270	
		SUBTOTALS		0	430	
	SEMINOLE & YUMA	98+98 N - 99+07 N	RT	---	15	
		99+16 SN - 99+36 SN	LT	---	45	
		99+28 SN - 99+38 SN	RT	---	10	
		SUBTOTALS		0	70	
		SUBTOTALS (0020)		0	2,868	
0050	WHITNEY WAY					
	BIKE PATH	76+48 WP - 76+48 WP	LT/RT	5	---	SAW BACK OF CURB FOR WIDER CURB RAMP
		64+50 WP - 65+14 WP	LT	---	65	
		SUBTOTALS (0050)		5	65	
		TOTALS		71	8,987	

REMOVING CONCRETE SIDEWALK

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0155 SY
0010	B-13-664	8+76 SH - 9+20 SH	LT/RT	65
		10+78 SH - 11+29 SH	LT/RT	40
		SUBTOTAL		105
	WEST BELTLINE FRONTAGE ROAD	71+53 SF	RT	9
		SUBTOTAL		9
	VERONA RD	93+60 EE - 98+48 EE	LT	260
		98+41 WN - 99+10 WN	LT/RT	45
		98+73 SU - 98+88 SU	RT	8
		98+74 SU - 98+89 SU	LT	8
		85+00 WN - 88+15 WN	LT/RT	210
		116+94 EE - 117+18 EE	LT	15
		107+16 WN - 107+32 WN	LT	8
		SUBTOTAL		554
	FREEPORT ROAD	12+00FP	LT/RT	190
		SUBTOTAL		190
	NIEMANN PL	10+00 NP - 10+93 NP	LT/RT	100
		SUBTOTAL		100
	U-HAUL PARKING LOT	11+90 UH - 13+50 UH	LT/RT	90
		SUBTOTAL		90
	WEST VERONA FRONTAGE ROAD	93+59 EE - 98+47 EE	RT	260
		SUBTOTAL		260
	WARWICK WAY	50+75 WW - 53+50 WW	LT	140
		50+75 WW - 51+72 WW	RT	130
		SUBTOTAL		270
		SUBTOTAL (0010)		1,578
0020	SEMINOLE & YUMA	100+27 N	RT	5
		98+95 N - 99+07 N	RT	5
		100+37 N - 100+42 N	RT	3
		99+74 SN	RT	4
		SUBTOTAL (0020)		17
0050	WHITNEY WAY BIKE PATH	76+35 WP - 76+48 WP	LT	15
		SUBTOTAL (0050)		15
			TOTAL	1,610

REMOVING GUARDRAIL

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0165 LF
0010	WEST BELTLINE WIDENING	1002+71 - 1004+37	LT	170
		1026+11 - 1026+62	LT	55
		1071+12 - 1077+77	RT	670
		SUBTOTAL		895
	BELTLINE STORM SEWER CROSSING	1125+31 - 1126+81	LT MED	150
		1125+34 - 1126+84	RT MED	150
		1122+13 - 1127+15	RT	470
		SUBTOTAL		770
	WEST BELTLINE FRONTAGE ROAD	1181+93 S - 1187+44	RT	550
		1191+76 S - 1192+57	RT	80
		71+30 SF - 76+90 SF	LT	560
		75+20 SF - 76+02 SF	RT	80
		SUBTOTAL		1,270
	VERONA RD	975+11 VR - 984+46 VR	LT	940
		SUBTOTAL		940
	ITS	PCMS-01-1040	GRANDVIEW ROAD	260
		SUBTOTAL		260
			TOTAL	4,135

REMOVING FENCE

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0170 LF	REMARKS
0010	WEST BELTLINE WIDENING	1064+01 - 76+22 WP	LT	1,250	
		SUBTOTAL		1,250	
	N-13-4	77+76 K - 82+33 K	LT	570	
		SUBTOTAL		570	
	N-13-2	53+15 WW - 64+86 WW	RT	1,150	
		SUBTOTAL		1,150	
	BELTLINE STORM SEWER CROSSING	1119+06 - 1128+00	LT	890	
		SUBTOTAL		890	
	SAND & TRASH COLLECTOR	1196+09 - 1196+65	LT	55	
		SUBTOTAL		55	
	B-13-664	1158+07 - 1170+37	RT	440	
		SUBTOTAL		440	
	WEST BELTLINE FRONTAGE ROAD	70+87 SF - 75+53 SF	LT	470	
		SUBTOTAL		470	
	VERONA RD	121+62 EE - 121+63 EE	RT/LT	25	
		SUBTOTAL		25	
	FREEPORT RD	12+50 FP - 14+50 FP	RT/LT	290	
		SUBTOTAL		290	
		SUBTOTAL (0010)		5,140	
0020	CTH M & FISH HATCHERY	104+30 MFH - 106+60 MFH	RT	230	BARBED WIRE
		103+24 FHM - 106+73 FHM	LT	360	WIRE AND MESH
		SUBTOTAL		590	
	FISH HATCHERY & WHALEN	100+53 FHW - 100+63 FHW	LT	15	WOOD
		SUBTOTAL		15	
	SEMINOLE & LACY	103+34 SL - 105+85 SL	LT	250	BARBED WIRE
		SUBTOTAL		250	
		SUBTOTAL (0020)		855	
			TOTAL	5,995	

REMOVING DELINEATORS AND MARKERS

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0180 EACH
0010	WEST BELTLINE WIDENING	1025+00 - 1078+50	MED	5
		67+00 L - 76+00 L	LT	3
		65+50 WP	RT	1
		SUBTOTAL		9
	N-13-2	1162+00 - 1174+00	LT	3
		SUBTOTAL		3
	BELTLINE STORM SEWER CROSSING	1125+18	LT	1
		1125+53	MED	1
		1125+61	RT	1
		SUBTOTAL		3
	B-13-664	1169+00 - 1176+00	RT	3
		SUBTOTAL		3
	WEST BELETLINE FRONTAGE ROAD	1190+95	RT	1
		83+00 SF	LT	1
		SUBTOTAL		2
		UNDISTRIBUTED	---	25
			TOTAL	45

REMOVING CONCRETE SLOPE PAVING

CATEGORY	PROJECT LOCATION	STATION	LOCATION	204.0175 SY
0010	B-13-664	1170+70	LT	130
		1170+87	RT	130
		TOTAL		260

REMOVING MASONRY

CATEGORY	PROJECT LOCATION	STATION	LOCATION	204.0185 CY
0010	SAND & TRASH COLLECTOR	1196+26	97.6 'LT	5

REMOVING INLETS

CATEGORY	PROJECT LOCATION	STATION	OFFSET	204.0220 EACH
0010	WEST BELTLINE WIDENING	1025+89	4.0 'LT	1
		1042+46	1.0 'LT	1
		1051+17	3.0 'LT	1
		76+36 L	44.3 'LT	1
		SUBTOTAL		4
	BELTLINE STORM SEWER CROSSING	1125+52	1.0 'RT	1
		1125+53	71.0 'RT	1
		1125+61	82.0 'RT	1
		1126+39	71.8 'RT	1
		1126+45	86.0 'RT	1
		SUBTOTAL		5
	WEST BELTLINE FRONTAGE ROAD	1169+94	76.0 'LT	1
		1169+62	75.0 'RT	1
		75+49 SF	17.0 'RT	1
		77+09 SF	49.0 'LT	1
		79+99 SF	5.0 'RT	1
		80+07 SF	56.0 'LT	1
		83+03 SF	17.0 'LT	1
		89+33 SF	35.0 'LT	1
		1194+48	57.0 'LT	1
		1195+01	57.0 'LT	1
		1195+57	57.0 'LT	1
		SUBTOTAL		11
	VERONA RD	977+83 VR	234.0 'LT	1
		980+90 VR	127.0 'LT	1
		980+91 VR	93.0 'LT	1
		988+50 VR	93.0 'LT	1
		988+96 VR	99.0 'RT	1
		989+06 VR	93.0 'LT	1
		993+62 VR	81.0 'LT	1
		SUBTOTAL		7
	NIEMANN PL	18+23 BP	22.0 'LT	1
		18+28 BP	12.0 'RT	1
		18+84 BP	31.0 'LT	1
		SUBTOTAL		3
	WARWICK WAY	51+99 WW	3.0 'RT	1
		52+06 WW	34.0 'RT	1
		59+06 WW	108.0 'RT	1
		SUBTOTAL		3
		SUBTOTAL (0010)		33 CON'T ABOVE

REMOVING OVERHEAD SIGN SUPPORT

CATEGORY	PROJECT LOCATION	STATION	LOCATION	204.9060.S.01 EACH
0010	WEST BELTLINE WIDENING	1003+32	LT	1
	WEST BELTLINE FRONTAGE ROAD	1187+00	RT	1
		TOTAL		2

REMOVING INLETS (CON'T)

CATEGORY	PROJECT LOCATION	STATION	OFFSET	204.0220 EACH
0020	SEMINOLE & SENTINEL	99+42 SP	20.2 'LT	1
		99+43 SP	20.1 'RT	1
		99+46 SP	20.5 'LT	1
		99+47 SP	20.5 'RT	1
		SUBTOTAL		4
	WHITNEY & GILBERT	98+54 W	30.3 'RT	1
		SUBTOTAL		1
		SUBTOTAL (0020)		5
0050	WHITNEY WAY BIKE PATH	65+16 WP	8.0 'LT	1
		71+25 WP	10.0 'RT	1
		SUBTOTAL (0050)		2
			TOTAL	40

REMOVING MANHOLES

CATEGORY	PROJECT LOCATION	STATION	OFFSET	204.0210 EACH
0010	WEST BELTLINE FRONTAGE ROAD	1125+69	82.4 'LT	1
		1126+37	82.0 'LT	1
		57+05 WW	82.0 'RT	1
		80+52 SF	13.0 'LT	1
		83+03 SF	6.0 'RT	1
		1196+23	80.0 'LT	1
		SUBTOTAL		6
	NIEMANN PL	18+31 BP	21.0 'RT	1
		SUBTOTAL		1
	VERONA RD	980+92 VR	101.0 'LT	1
		981+78 VR	99.0 'LT	1
		986+13 VR	86.0 'LT	1
		986+25 VR	87.0 'LT	1
		987+79 VR	92.0 'LT	1
		991+49 VR	89.0 'LT	1
		992+70 VR	86.0 'LT	1
		994+97 VR	77.8 'LT	1
		993+18 VR	81.0 'RT	1
		SUBTOTAL		9
			TOTAL	16

SEALING PIPES

CATEGORY	PROJECT LOCATION	STATION	OFFSET	204.0280 EACH	COMMENTS
0010	FREEPORT	20+48 FP	67.4 'LT	1	24 INCH PIPE
		20+98 FP	9.4 'RT	1	60 INCH PIPE
			SUBTOTAL	2	
	VERONA RD	980+64 VR	101.1 'LT	1	60 INCH PIPE
		986+55 VR	87.9 'LT	1	48 INCH PIPE
		986+29 VR	5.7 'RT	1	12 INCH PIPE
		986+69 VR	1.1 'LT	1	12 INCH PIPE
		987+77 VR	92.3 'LT	1	48 INCH PIPE
		987+92 VR	91.7 'LT	1	48 INCH PIPE
		988+46 VR	83.1 'RT	1	12 INCH PIPE
		988+48 VR	92.6 'LT	1	48 INCH PIPE
		990+90 VR	46.7 'RT	1	12 INCH PIPE
		992+67 VR	60.0 'RT	1	34 X 53 INCH PIPE
		992+69 VR	---	1	34 X 53 INCH PIPE
		992+76 VR	66.0 'LT	1	36 INCH PIPE
		993+13 VR	62.4 'RT	1	36 INCH PIPE
			SUBTOTAL	13	
	BELTLINE STORM SEWER CROSSING	1124+52	69.7 'RT	1	24 INCH PIPE
		1125+33	46.6 'LT	1	24 INCH PIPE
		1125+47	70.8 'RT	1	24 INCH PIPE
		1125+71	98.2 'LT	1	24 INCH PIPE
		1126+38	68.4 'RT	1	24 INCH PIPE
			SUBTOTAL	5	
	WEST BELTLINE FRONTAGE ROAD	1211+18	127.1 'RT	1	24 INCH PIPE
		1211+33	127.3 'RT	1	24 INCH PIPE
			SUBTOTAL	2	
	TODD DRIVE STORM SEWER	11+29 TD	21.8 'RT	1	36 INCH PIPE
			SUBTOTAL	1	
			TOTAL	23	

REMOVING STORM SEWER JUNCTION CHAMBER

CATEGORY	STATION	OFFSET	204.9060.S.02 EACH
0010	977+18 VR	108.0 'LT	1

REMOVING CRASH CUSHION

CATEGORY	PROJECT LOCATION	STATION	LOCATION	204.9060.S.03 EACH
0010	WEST BELTLINE WIDENING	1077+54	MEDIAN	1

REMOVING STORM SEWER

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0245 .01 12-INCH LF	.02 15-INCH LF	.03 18-INCH LF	.04 21-INCH LF	.05 24-INCH LF	.06 30-INCH LF	.07 36-INCH LF	.08 42-INCH LF	.09 48-INCH LF	.10 54-INCH LF	.11 60-INCH LF	.12 72-INCH LF	.13 14"X23" CPRCHE LF	.15 24"X38" CPRCHE LF	.16 29"X45" CPRCHE LF	.17 34"X53" CPRCHE LF
0010	WEST BELTLINE WIDENING	1025+89	LT/RT	---	---	---	---	8	---	---	---	---	---	---	---	---	---	---	---
		1042+46	LT/RT	---	---	---	---	8	---	---	---	---	---	---	---	---	---	---	---
		1051+17	LT/RT	---	---	---	---	10	---	---	---	---	---	---	---	---	---	---	---
		76+36 L - 76+76 L	LT	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		40	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0
	BELTLINE STORM SEWER CROSSING	1123+54 - 1123+55	LT	---	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---
		1125+17 - 1125+52	LT/RT	---	---	---	---	90	---	---	---	---	---	---	---	---	---	---	---
		1125+52 - 1125+53	RT	---	---	---	---	70	---	---	---	---	---	---	---	---	---	---	---
		1125+53 - 1125+61	RT	---	---	---	---	15	---	---	---	---	---	---	---	---	---	---	---
		1125+50 - 1125+61	RT	---	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---
		1125+61 - 1125+64	RT	---	---	---	---	5	---	---	---	---	---	---	---	---	---	---	---
		1125+73 - 1126+37	LT	---	---	---	---	---	---	---	---	---	75	---	---	---	---	---	---
		1126+37 - 1126+62	LT	---	---	25	---	---	---	---	---	---	---	---	---	---	---	---	---
		1126+37 - 1126+64	LT	---	---	---	---	---	---	---	25	---	---	---	---	---	---	---	---
		1126+38 - 1126+45	RT	---	---	---	---	20	---	---	---	---	---	---	---	---	---	---	---
		1126+45 - 1126+54	RT	---	---	---	---	25	---	---	---	---	---	---	---	---	---	---	---
		1126+45 - 1126+70	RT	---	---	---	---	25	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		0	0	50	0	250	0	0	25	0	75	0	0	0	0	0	0
	WEST BELTLINE FRONTAGE ROAD	1164+70 - 1169+94	LT	---	---	---	---	520	---	---	---	---	---	---	---	---	---	---	---
		1169+94 - 1170+02	LT	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		1169+94	LT	---	---	---	---	9	---	---	---	---	---	---	---	---	---	---	---
		1169+94 - 1173+12	LT	---	---	---	---	---	320	---	---	---	---	---	---	---	---	---	---
		1173+12 - 1175+94	LT	---	---	---	---	---	280	---	---	---	---	---	---	---	---	---	---
		1169+52 - 1169+62	RT	---	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---
		1169+62 - 1169+67	RT	---	---	---	---	15	---	---	---	---	---	---	---	---	---	---	---
		75+49 SF - 75+51 SF	LT/RT	---	55	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		77+09 SF - 80+07 SF	LT	---	---	---	---	290	---	---	---	---	---	---	---	---	---	---	---
		79+99 SF - 80+52 SF	LT/RT	55	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		80+07 SF - 80+52 SF	LT	---	---	---	---	65	---	---	---	---	---	---	---	---	---	---	---
		80+52 SF - 83+03 SF	LT/RT	---	---	---	---	250	---	---	---	---	---	---	---	---	---	---	---
		83+03 SF	LT/RT	---	---	---	---	25	---	---	---	---	---	---	---	---	---	---	---
		83+03 SF - 83+53 SF	LT/RT	---	---	---	---	50	---	---	---	---	---	---	---	---	---	---	---
		89+30 SF - 89+35 SF	LT	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		90	55	10	0	1,224	600	0	0	0	0	0	0	0	0	0	0
	SAND AND TRASH COLLECTOR	1195+11 - 1196+23	LT	---	---	---	---	---	---	---	110	---	---	---	---	---	---	---	---
		1194+47	LT	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		1195+01	LT	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		1195+56	LT	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		1196+23	LT	---	---	---	---	8	---	---	---	---	---	---	---	---	---	---	---
		1196+23 - 1196+30	LT	---	---	---	---	---	---	---	20	---	---	---	---	---	---	---	---
		1211+18 - 1211+33	RT	---	---	---	---	---	---	---	15	---	---	---	---	---	---	---	---
		SUBTOTALS		30	0	0	0	8	0	0	145	0	0	0	0	0	0	0	0

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REMOVING STORM SEWER (CON'T)

				204.0245														
				.01	.02	.03	.04	.05	.06	.07	.08	.09	.10	.11	.12	.13	.15	.16	.17
	PROJECT			12-INCH	15-INCH	18-INCH	21-INCH	24-INCH	30-INCH	36-INCH	42-INCH	48-INCH	54-INCH	60-INCH	72-INCH	14"X23" CPRCHE	24"X38" CPRCHE	29"X45" CPRCHE	34"X53" CPRCHE
CATEGORY	LOCATION	STATION - STATION	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
0010	VERONA RD	977+21 VR	LT	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---
(CON'T)		977+22 VR	LT	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---
		977+18 VR - 977+96 VR	LT	---	---	---	---	---	---	---	---	---	---	80	---	---	---	---	---
		977+61 VR - 977+83 VR	LT	---	---	---	---	50	---	---	---	---	---	---	---	---	---	---	---
		979+16 VR - 979+71 VR	LT	---	---	---	---	---	75	---	---	---	---	---	---	---	---	---	---
		980+61 VR - 980+92 VR	LT	---	---	---	---	---	---	---	---	---	---	30	---	---	---	---	---
		980+90 VR - 980+92 VR	LT	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		980+90 VR - 980+92 VR	LT	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		980+92 VR - 981+78 VR	LT	---	---	---	---	---	---	---	---	---	---	85	---	---	---	---	---
		981+78 VR - 983+48 VR	LT	---	---	---	---	---	---	---	---	---	---	170	---	---	---	---	---
		983+48 VR - 986+13 VR	LT	---	---	---	---	---	---	---	---	---	---	270	---	---	---	---	---
		986+13 VR - 986+25 VR	LT	---	---	---	---	---	---	---	---	---	10	---	---	---	---	---	---
		986+16 VR - 986+25 VR	LT	---	---	---	---	---	---	50	---	---	---	---	---	---	---	---	---
		986+25 VR - 986+26 VR	LT	---	---	---	---	15	---	---	---	---	---	---	---	---	---	---	---
		986+25 VR - 987+03 VR	LT	---	---	---	---	---	---	---	---	80	---	---	---	---	---	---	---
		986+28 VR	LT	---	---	---	---	10	---	---	---	---	---	---	---	---	---	---	---
		986+69 VR - 987+11 VR	LT	45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		987+76 VR - 987+79 VR	LT	---	---	---	---	---	---	---	---	---	---	---	---	---	25	---	---
		987+79 VR - 987+91 VR	LT	---	---	---	---	---	---	---	---	10	---	---	---	---	---	---	---
		988+46 VR - 988+96 VR	RT	55	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		988+50 VR - 988+60 VR	LT	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		988+50 VR - 989+06 VR	LT	---	---	---	---	---	---	---	---	55	---	---	---	---	---	---	---
		989+06 VR - 991+49 VR	LT	---	---	---	---	---	---	---	---	240	---	---	---	---	---	---	---
		990+81 VR - 990+90 VR	RT	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		991+41 VR - 991+49 VR	LT	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		991+49 VR	LT	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---
		991+49 VR - 992+70 VR	LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	120
		992+70 VR	LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15
		992+70 VR - 992+76 VR	LT	---	---	---	---	---	---	20	---	---	---	---	---	---	---	---	---
		992+65 VR - 992+66 VR	RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	55
		992+70 VR - 993+62 VR	LT	---	---	90	---	---	---	---	---	---	---	---	---	---	---	---	---
		993+13 VR - 993+18 VR	RT	---	---	---	---	---	---	20	---	---	---	---	---	---	---	---	---
		993+18 VR - 994+00 VR	RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	85	---
		993+62 VR	LT	---	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		993+62 VR - 994+97 VR	LT	---	---	140	---	---	---	---	---	---	---	---	---	---	---	---	---
		994+97 VR	LT	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		994+97 VR - 995+10 VR	LT	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		223	5	230	0	75	75	90	0	397	10	635	6	0	25	85	190
	BRITTA PKWY	18+17 BP - 18+30 BP	RT	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		18+28 BP - 18+30 BP	RT	---	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		18+23 BP - 18+28 BP	LT/RT	35	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		18+30 BP - 18+84 BP	LT/RT	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		110	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	WARWICK WAY	51+99 WW - 52+06 WW	LT/RT	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		52+01 WW - 52+06 WW	RT	---	---	7	---	---	---	---	---	---	---	---	---	---	---	---	---
		52+06 WW - 57+05 WW	RT	---	---	---	520	---	---	---	---	---	---	---	---	---	---	---	---
		57+05 WW	RT	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---
		57+05 WW - 59+06 WW	RT	---	---	---	200	---	---	---	---	---	---	---	---	---	---	---	---
		59+06 WW	RT	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		36	0	13	720	0	0	0	0	0	0	0	0	0	0	0	0
	FREEPORT RD	10+34 BI - 11+10 BI	RT	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		SUBTOTALS (0010)		604	78	303	720	1,583	675	90	170	397	85	635	6	0	25	85	190

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REMOVING STORM SEWER (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.0245 .01 12-INCH LF	.02 15-INCH LF	.03 18-INCH LF	.04 21-INCH LF	.05 24-INCH LF	.06 30-INCH LF	.07 36-INCH LF	.08 42-INCH LF	.09 48-INCH LF	.10 54-INCH LF	.11 60-INCH LF	.12 72-INCH LF	.13 14"X23" CPRCHE LF	.15 24"X38" CPRCHE LF	.16 29"X45" CPRCHE LF	.17 34"X53" CPRCHE LF
0020	CTH PB & CTH M	102+82 PB	LT	---	---	5	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
	FISH HATCHERY & CTH M	104+59 MFH	LT	---	---	---	---	---	---	---	---	---	---	---	---	60	---	---	---
		SUBTOTALS		0	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0
	SEMINOLE & LACY	100+73 LR	LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---
		100+73 LR	RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---
		100+80 LR	LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---
		100+80 LR	RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---
		SUBTOTALS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0
	SEMINOLE & SENTINEL	99+42 SP - 99+46 SP	LT	---	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		99+43 SP - 99+56 SP	RT	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	WHITNEY & GILBERT	98+54 W - 98+59 W	RT	---	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+00 W - 100+09 W	RT	---	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0
		SUBTOTALS (0020)		0	20	25	0	0	0	0	0	0	0	0	0	60	0	24	0
0050	WHITNEY WAY BIKE PATH	64+61 WP - 65+50 WP	RT	---	---	---	---	---	---	---	---	90	---	---	---	---	---	---	---
		65+16 WP - 65+18 WP	LT/RT	---	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---
		71+23 WP - 71+25 WP	LT/RT	---	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---
		71+25 WP - 71+42 WP	RT	---	---	---	---	---	---	---	---	---	---	20	---	---	---	---	---
		SUBTOTALS (0050)		0	0	20	0	0	0	0	0	90	0	20	0	0	0	0	0
			TOTALS	604	98	348	720	1,583	675	90	170	487	85	655	6	60	25	109	190

REMOVING INLET COVERS

CATEGORY	PROJECT LOCATION	STATION	OFFSET	204.9060.S.04 EACH
0010	VERONA RD	977+29 VR	155.0 'LT	1
		986+26 VR	69.1 'LT	1
		986+33 VR	81.1 'RT	1
		990+73 VR	97.9 'RT	1
		TOTAL		4

REMOVING MODULAR BLOCK RETAINING WALL

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	204.9090.S.01 STA. 64+50 WP TO STA. 65+50 WP LF	204.9090.S.02 STA. 1166+85 TO STA. 1174+20 LF
0010	WEST BELTLINE FRONTAGE ROAD	1166+85 - 1174+20	RT	---	620
		SUBTOTALS (0010)		0	620
0050	WHITNEY WAY BIKE PATH	64+50 WP - 65+50 WP	RT	100	---
		SUBTOTALS (0050)		100	0
		TOTALS		100	620

REMOVING APRON ENDWALLS

CATEGORY	STATION	OFFSET	SIZE (INCH)	204.9060.S.05 EACH
0010	979+16	356.0 'LT	30"	1
	1123+55	86.0 'LT	18"	1
	1125+17	84.9 'LT	24"	1
	1125+71	98.0 'LT	24"	1
	1125+73	120.0 'LT	54"	1
	65+50 WP	---	48"	1
	69+18 WP	20.0 'RT	24"	1
	75+51 SF	41.0 'LT	18"	1
	83+53 SF	26.0 'LT	24"	1
	1194+49	80.0 'LT	12"	1
	1195+00	82.0 'LT	12"	1
	1195+55	83.0 'LT	12"	1
	1196+27	98.0 'LT	42"	1
	10+34 BI	19.0 'RT	12"	1
	10+92 BI	13.2 'LT	12"	1
	11+10 BI	18.0 'RT	12"	1
	11+19 BI	12.5 'LT	12"	1
	SUBTOTAL (0010)			17
				CON'T ABOVE

REMOVING APRON ENDWALLS (CON'T)

CATEGORY	STATION	OFFSET	SIZE (INCH)	204.9060.S.05 EACH
0020	104+59 MFH	29.5 'RT	14"x23"	1
	104+59 MFH	29.7 'LT	14"x23"	1
	108+27 FHW	79.5 'LT	12"	1
	108+39 FHW	22.3 'LT	24"	1
	100+73 LR	25.7 'LT	45"x29"	1
	100+73 LR	24.2 'RT	45"x29"	1
	100+80 LR	25.7 'LT	45"x29"	1
	100+80 LR	24.2 'RT	45"x29"	1
	SUBTOTAL (0020)			8
			TOTALS	25

EARTHWORK

CATEGORY	STAGE	STATION - STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2) 5% OF CUT CY	205.0100 EXCAVATION COMMON (1) EBS EXCAVATION (3) CY	SPV.0035.02 EXCAVATION SPECIAL	UNUSABLE PAVEMENT MATERIAL CY	AVAILABLE MATERIAL (4) CY	EXPANDED EBS BACKFILL (5) FACTOR 1.25 CY	UNEXPANDED FILL CY	EXPANDED FILL (6) FACTOR 1.25 CY	MASS ORDINATE +/- (7)	WASTE CY	UNEXPANDED BACKFILL GRANULAR CY	209.0100 BACKFILL GRANULAR (8) FACTOR 1.25 CY	*312.0110 SELECT CRUSHED MATERIAL (9) TON
0010	WEST MAINLINE WIDENING	1025+01 - 1077+41	MAINLINE	16,871	844	---	1,628	15,243	1,054	1,787	2,233	13,010	13,010	---	---	1,850
	WEST MAINLINE WIDENING	946+77 - 1025+01	MAINLINE	2,131	107	---	0	2,131	133	132	164	1,966	1,966	---	---	230
	WEST MAINLINE WIDENING	1192+59 - 1197+34	SAND AND TRASH COLLECTOR	432	200	---	6	426	260	443	553	-127	0	460	575	0
	WEST MAINLINE WIDENING	67+00 L - 76+00 L	L RAMP	903	45	---	43	861	56	123	154	707	707	---	---	100
	DETENTION BASIN (A)	977+50 VR - 981+00 VR	VERONA ROAD	14,609	---	22,700	0	14,609	---	0	0	14,609	14,609	---	---	0
	DETENTION BASIN (B)	1120+00-1124+00	MAINLINE	25,058	---	---	0	25,058	---	0	0	25,058	25,058	---	---	0
	SEMINOLE STRUCTURE	1167+00 - 1176+60	SEMINOLE HIGHWAY	584	29	---	0	584	37	778	974	-386	0	---	---	65
	SEMINOLE FRONTAGE	1177+00 - 1193+73	MAINLINE	3,970	198	---	835	3,135	248	97	122	3,013	3,013	---	---	430
	SEMINOLE FRONTAGE	1177+93 S - 1182+12 S	S RAMP	1,999	100	---	250	1,748	125	0	0	1,748	1,748	---	---	220
	SEMINOLE FRONTAGE	71+00 SF - 89+50 SF	SEMINOLE FRONTAGE	3,971	199	---	524	3,447	245	1,353	1,691	1,756	1,756	---	---	430
	WARWICK WAY	50+75 WW - 63+50 WW	WARWICK WAY	513	26	---	131	382	32	215	269	113	113	---	---	55
	VERONA ROAD WIDENING	975+15 VR - 991+50 VR	VERONA ROAD	1,485	74	---	132	1,353	93	237	297	1,057	1,057	---	---	160
	FREEPORT CONNECTION	11+11 FP - 21+47 FP	FREEPORT	3,102	155	---	115	2,987	194	1,267	1,584	1,403	1,403	480	600	340
	SW COMMUTER BIKE PATH	9+99 BI - 15+75 BI	SW COMMUTER PATH	17	1	---	0	17	1	258	323	-306	0	---	---	2
	THURSTON LANE	10+16 TL - 10+99 TL	THURSTON LANE	202	10	---	0	202	13	0	0	202	202	---	---	20
	CARLING DRIVEWAY	10+13 CD - 11+73 CD	CARLING DRIVE	60	3	---	24	36	4	13	17	19	19	---	---	7
	BRITTA PARKWAY	17+36 BP - 19-81 BP	BRITTA PARKWAY	370	19	---	89	281	23	14	17	264	264	---	---	40
	NIEMANN PLACE DRIVEWAY	10+00 NP - 10+93 NP	NIEMANN PLACE	47	2	---	0	47	3	21	27	20	20	---	---	5
	U-HAUL PARKING LOT	10+00 UH - 13+50 UH	PARKING LOT	394	20	---	90	304	25	36	45	259	259	---	---	45
	WEST VERONA FRONTAGE ROAD	93+59 EE - 98+47 EE	WEST VERONA FRONTAGE ROAD	77	4	---	0	77	5	63	78	-1	0	---	---	8
	RAMP K	78+02 K - 82+00 K	N-13-4	19	1	---	0	19	1	346	432	-413	0	---	---	2
	ITS	10+05 SRC - 14+33 SRC	SPRING ROSE CIRCLE	19	0	---	0	19	0	155	194	-175	0	---	---	0
		11+85 LD - 12+55 LD	LOCUST DRIVE	0	0	---	0	0	0	32	39	-39	0	---	---	0
		10+06 GR - 14+03 GR	GRANDVIEW ROAD	43	0	---	0	43	0	13	16	27	27	---	---	0
		11+65 MPR - 12+35 MPR	MINERAL POINT ROAD	0	0	---	0	0	0	65	82	-82	0	---	---	0
	UNDISTRIBUTED		SEMINOLE HIGHWAY TEMP PATH	710	36	---	0	710	44	0	0	710	710	---	---	80
		SUBTOTALS (0010)		77,587	2,071	22,700	3,867	73,720	2,596	7,448	9,312	64,412	65,942		1,175	4,089

1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100.

2) SALVAGED PAVEMENT MATERIAL IS INCLUDED IN CUT.

3) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.

4) AVAILABLE MATERIAL = CUT - SALVAGED PAVEMENT MATERIAL.

5) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL FACTOR = 1.30.

6) EXPANDED FILL = UNEXPANDED FILL * EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25.

7) MASS ORDINATE: MASS ORDINATE = (CUT - SALVAGED PAVEMENT MATERIAL) - (FILL * FILL FACTOR)
PLUS MASS ORDINATE QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS MASS ORDINATE QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

8) BACKFILL GRANULAR = UNEXPANDED BACKFILL GRANULAR * FILL FACTOR = 1.25. USED FOR STRUCTURES. SEE STRUCTURE PLANS.

9) USED FOR BACKFILL OF EBS.

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CON'T ON NEXT PAGE

EARTHWORK (CON'T)

CATEGORY	STAGE	STATION - STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2)	205.0100 EXCAVATION COMMON (1) EBS EXCAVATION (3) 5% OF CUT	SPV.0035.02 EXCAVATION SPECIAL	UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (4)	EXPANDED EBS BACKFILL (5) FACTOR 1.25	UNEXPANDED FILL	EXPANDED FILL (6) FACTOR 1.25	MASS ORDINATE +/- (7)	WASTE	UNEXPANDED BACKFILL GRANULAR	209.0100 BACKFILL GRANULAR (8) FACTOR 1.25	*312.0110 SELECT CRUSHED MATERIAL (9)
				CY	CY		CY	CY	CY	CY	CY		CY	CY	CY	TON
0020	MITIGATION INTERSECTIONS	101+54 PB - 105+25 PB	CTH PB & CTH M	394	20	---	7	386	25	0	0	386	386	---	---	45
		101+15 MPB - 103+07 MPB	CTH PB & CTH M	74	4	---	0	74	5	56	70	4	4	---	---	8
		SUBTOTALS		467	23	0	7	460	29	56	70	390	390	0	0	53
	MITIGATION INTERSECTIONS	92+50 MFH - 107+50 MFH	CTH M &	1,309	65	---	0	1,309	82	530	662	643	643	---	---	140
		93+17 FHM - 106+97 FHM	FISH HATCHERY	2,001	100	---	22	1,978	125	176	220	1,758	1,758	---	---	220
		SUBTOTALS		3,310	166	0	22	3,288	207	706	883	2,401	2,401	0	0	360
	MITIGATION INTERSECTIONS	96+00 FHW - 108+50 FHW	FISH HATCHERY	1,750	88	---	67	1,683	109	2,436	3,046	-1,362	0	---	---	190
		97+50 WFH - 99+00 WFH	& WHALEN	289	14	---	0	289	18	278	347	-58	0	---	---	30
		SUBTOTALS		2,040	102	0	67	1,973	127	2,714	3,393	-1,420	0	0	0	220
	MITIGATION INTERSECTIONS	91+00 SL - 107+00 SL	SEMINOLE	1,268	63	---	54	1,214	79	912	1,140	74	74			140
		97+00 LR - 103+50 LR	& LACY	404	20	---	25	379	25	153	192	187	187	---		45
		SUBTOTALS		1,672	84	0	79	1,593	104	1,065	1,332	261	261	0	0	185
	MITIGATION INTERSECTIONS	93+47 PD - 98+00 PD	SEMINOLE & CTH PD	419	21	---	19	400	26	0	0	400	400	---		0
		SUBTOTALS		419	21	0	19	400	26	0	0	400	400	0	0	0
	MITIGATION INTERSECTIONS	95+87 SS - 103+27 SS	SEMINOLE	707	35	---	15	693	44	16	20	672	672			75
		97+07 SP - 99+57 SP	& SENTINEL	308	15	---	6	302	19	0	0	302	302	---		35
		SUBTOTALS		1,016	51	0	21	995	63	16	20	975	975	0	0	110
	MITIGATION INTERSECTIONS	99+03 N - 99+52 N	SEMINOLE/YUMA & NAKOMA	60	3	---	9	51	4	0	0	51	51	---		7
		SUBTOTALS		60	3	0	9	51	4	0	0	51	51	0	0	7
	MITIGATION INTERSECTIONS	97+12 W - 102+62 W	WHITNEY WAY & GILBERT	358	18	---	7	351	15	0	0	329	329	---		25
		SUBTOTALS		358	18	0	7	351	15	0	0	329	329	0	0	25
		SUBTOTALS (0020)		9,341	467	0	232	9,110	577	4,558	5,698	3,386	4,806	0	0	960
0050	WHITNEY WAY BIKE PATH	64+50 WP - 76+40 WP	WHITNEY WAY PATH	164	8	---	10	154	10	1,565	1,957	-1,802	0	---		20
		SUBTOTALS (0050)		164	8	0	10	154	10	1,565	1,957	-1,802	0	0	0	20
		TOTALS		87,093	2,547	22,700	4,109	82,984	3,183	13,571	16,966	65,995	70,748		1,175	5,069
		ITEM TOTALS			89,500											

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PLUS MASS ORDINATE QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS MASS ORDINATE QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

8) BACKFILL GRANULAR = UNEXPANDED BACKFILL GRANULAR * FILL FACTOR = 1.25. USED FOR STRUCTURES. SEE STRUCTURE PLANS.

9) USED FOR BACKFILL OF EBS.

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

FINISHING ROADWAY

CATEGORY	PROJECT	213.0100 EACH
0010	1206-07-77	1

OBLITERATING OLD ROAD

CATEGORY	PROJECT LOCATION	LOCATION	214.0100 STA	REMARKS
0010	NIEMANN PL	LT/RT	1	NORTH OF N-13-3

BASE AGGREGATE DENSE SUMMARY

CATEGORY	PROJECT	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130 BASE AGGREGATE DENSE 3-INCH TON	*312.0110 SELECT CRUSHED MATERIAL TON
0010	WEST BELTLINE WIDENING	994+77 - 1025+01	MED LT	1,100	2,550	---	---
		1002+76 - 1008+60	MED RT	180	500	---	---
		1006+54 - 1009+66	LT	75	200	---	---
		1015+17 - 1020+99	MED RT	160	400	---	---
		1016+54 - 1020+42	RT	95	240	---	---
		1025+01 - 1070+21	MED LT	460	8,850	---	7,400
		1026+10 - 1036+22	LT	220	1,650	---	1,150
		1026+33 - 1070+21	MED RT	920	5,600	---	3,450
		1053+81 - 1063+87	LT	180	1,500	---	1,050
		1063+87 - 76+24 L	LT	---	1,250	---	1,100
		1070+21 - 1077+41	MED	---	2,600	---	2,250
		SUBTOTALS		3,390	25,340	0	16,400
	BELTLINE STORM SEWER CROSSING	1125+19 - 1125+51	LT	---	45	---	---
		1125+48 - 1125+60	RT	---	40	---	---
		1126+38	LT/RT	---	120	---	---
		1119+72 - 1122+56	POND SERVICE RD	---	370	---	---
		1124+72	BIKE PATH LT	---	10	---	---
		1125+61 - 1126+92	BIKE PATH LT	---	80	---	---
		SUBTOTALS		0	665	0	0
	WEST BELTLINE FRONTAGE ROAD	1176+70 - 1193+73	RT	---	3,800	---	3,300
		1176+70 - 1177+20	RT	15	---	---	---
		71+09 SF - 89+50 SF	LT/RT	---	1,450	4,350	---
		1180+61 S - 1182+12 S	RT	---	250	---	220
		74+57 SF - 1179+20 S	MED	---	170	---	---
		77+95 SF - 80+73 SF	MED	---	150	---	---
		71+59 SF - 81+00 SF	PATH RT	---	650	---	---
		71+24 SF - 81+00 SF	PATH SHOULDERS	---	70	---	---
		SUBTOTALS		15	6,540	4,350	3,520
	SAND & TRASH COLLECTOR	1192+59 - 1197+34	LT	---	550	---	420
		SUBTOTALS		0	550	0	420
	TODD DRIVE STORM SEWER	11+08 TD - 11+54 TD	RT	---	60	---	---
				0	60	0	0
	B-13-664	8+72 SH - 9+16 SH	LT/RT	15	70	210	---
		10+84 SH - 11+31 SH	LT/RT	9	60	190	---
		1169+00 - 1174+17	LT	---	590	---	520
		1166+40 - 1175+46	MED	---	1,000	---	890
		1165+45 - 1177+20	RT	---	130	---	---
		SUBTOTALS		24	1,850	400	1,410
							CON'T ABOVE

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

BASE AGGREGATE DENSE SUMMARY (CON'T)

CATEGORY	PROJECT	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130 BASE AGGREGATE DENSE 3-INCH TON	*312.0110 SELECT CRUSHED MATERIAL TON
0010	VERONA RD	975+15 VR - 986+85 VR	LT	25	2,100	---	1,750
		986+20 VR - 987+16 VR	LT	---	70	70	---
		989+01 VR - 991+19 VR	LT	---	85	130	---
		94+93 EE - 95+24 EE	LT/RT	---	25	35	---
		116+68 EE - 117+10 EE	LT	---	20	30	---
		98+11 EE - 98+11 WN	LT/RT	---	280	420	---
		98+74 SU - 98+89 SU	LT/RT	---	65	65	---
		98+74 SU - 99+02 SU	LT	---	50	50	---
		107+20 WN - 108+45 WN	LT/RT	---	40	60	---
		93+80 EE - 98+23 EE	LT	65	---	---	---
		84+88 WN - 85+12 WN	LT/RT	7	---	---	---
		98+41 WN - 99+10 WN	LT/RT	10	---	---	---
		98+73 SU - 98+88 SU	RT	2	---	---	---
		98+74 SU - 98+89 SU	LT	2	---	---	---
		116+94 EE - 117+18 EE	LT	4	---	---	---
		107+16 WN - 107+32 WN	LT	2	---	---	---
		SUBTOTALS		117	2,735	860	1,750
	FREEPORT RD	11+11 FP - 21+47 FP	LT/RT	25	1,150	1,650	---
		9+99 BI - 15+75 BI	LT/RT	---	200	---	---
		10+16 TL - 10+97 TL	LT/RT	3	80	120	---
		10+06 CW - 11+87 CW	LT/RT	---	290	---	---
		SUBTOTALS		28	1,720	1,770	0
	BRITTA PKWY	17+96 BP - 19+81 BP	LT/RT	40	170	240	---
		10+00 NP - 10+93 NP	LT/RT	4	95	---	---
		93+59 EE - 98+47 EE	RT	80	---	---	---
		121+65 EE - 122+69 EE	RT	---	45	---	---
		SUBTOTALS		124	310	240	0
	U-HAUL PARKING LOT	10+00 UH - 13+50 UH	LT/RT	---	600	---	---
		SUBTOTALS		0	600	0	0
	WARWICK WAY	50+75 WW - 53+50 WW	RT/LT	---	230	340	---
		50+75 WW - 53+50 WW	RT/LT SIDEWALK	45	---	---	---
		51+60 WW - 51+77 WW	RT BIKE PATH	---	40	---	---
		51+10 WW - 53+49 WW	DRIVEWAY LT	---	25	---	---
		SUBTOTALS		45	295	340	0
	ITS	1006+55 - 1009+51	LT	70	---	---	---
		DMS-13-0032/0033	MED	---	60	---	---
		DMS-13-0034/0035	MED	---	60	---	---
		DMS-13-0031	GAMMON ROAD	95	---	---	---
		PCMS-01-1038	SPRING ROSE CIRCLE	110	7	---	---
		PCMS-01-1039	LOCUST DRIVE	---	7	---	---
		PCMS-01-1040	GRANDVIEW ROAD	95	7	---	---
		PCMS-01-1041	MINERAL POINT ROAD	---	7	---	---
		SUBTOTALS		370	148	0	0
		SUBTOTALS (0010)		4,113	40,813	7,960	23,500

CON'T ON NEXT PAGE

BASE AGGREGATE DENSE SUMMARY (CON'T)

CATEGORY	PROJECT	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130 BASE AGGREGATE DENSE 3-INCH TON	*312.0110 SELECT CRUSHED MATERIAL TON
0020	CTH PB	101+54 PB - 105+26 PB	LT	---	110	340	---
	& CTH M	101+15 MPB - 103+74 MPB	LT	---	35	110	---
		SUBTOTALS		0	145	450	0
	CTH M &	92+02 MFH - 107+98 MFH	LT/RT	220	630	1,900	---
	FISH HATCHERY	93+17 FHM - 106+97 FHM	LT/RT	240	630	2,000	---
		SUBTOTALS		460	1,260	3,900	0
	FISH HATCHERY	95+84 FHW - 108+59 FHW	LT/RT	45	1,300	2,300	---
	& WHALEN	105+50 FHW - SHAMROCK	LT/RT	140	---	---	---
		97+37 WFH - 99+27 WFH	LT/RT	20	85	290	---
		SUBTOTALS		205	1,385	2,590	0
	SEMINOLE	90+54 SL - 107+03 SL	LT/RT	200	910	3,200	---
	& LACY	96+85 LR - 99+50 LR	LT/RT	15	60	160	---
		100+50 LR - 103+52 LR	LT/RT	110	150	500	---
		SUBTOTALS		325	1,120	3,860	0
	SEMINOLE & CTH PD	93+46 PD - 98+00 PD	RT	---	160	470	---
		SUBTOTALS		0	160	470	0
	SEMINOLE	95+87 SS - 103+27 SS	LT/RT	---	250	760	---
	& SENTINEL	97+50 SP - 99+50 SP	LT/RT	---	100	310	---
		SUBTOTALS		0	350	1,070	0
	SEMINOLE/YUMA	98+05 N - 98+15 N	LT	2	---	---	---
	& NAKOMA	99+03 N - 99+92 N	LT/RT	---	65	200	---
		SUBTOTALS		2	65	200	0
	WHITNEY	97+11 W - 98+55 W	RT	---	65	160	
	& GILBERT	100+00 W - 102+62 W	RT	---	120	290	---
		SUBTOTALS		0	185	450	0
		SUBTOTALS (0020)		992	4,670	12,990	0
0050	WHITNEY WAY						
	BIKE PATH	64+50 WP - 76+48 WP	RT	---	840	---	---
		SUBTOTALS (0050)		0	840	0	0
			TOTALS	5,105	46,323	20,950	23,500

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\030213_mq.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 43

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BASE PATCHING ASPHALTIC

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	390.0203 SY	REMARKS
0010	VERONA RD	975+15 VR - 1001+00 VR	VARIES	175	SEE PLAN DETAILS FOR LOCATIONS
		UNDISTRIBUTED	---	65	
			TOTAL	240	

CONCRETE PAVEMENT

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	415.1080 HES 8-INCH SY	415.1410 APPROACH SLAB HES SY
0010	B-13-664	8+70 SH - 8+96 SH	LT/RT	170	---
		8+96 SH - 9+19 SH	LT/RT	---	89
		10+81 SH - 11+09 SH	LT/RT	---	89
		11+04 SH - 11+31 SH	LT/RT	145	---
		SUBTOTALS		315	178
	ITS	DMS-13-0032/0033	MED	68	---
		DMS-13-0034/0035	MED	82	---
		SUBTOTALS		150	0
			TOTALS	465	178

CONCRETE DRIVEWAY HES 7-INCH

CATEGORY	PROJECT LOCATION	STATION	LOCATION	416.0270 SY
0010	WARWICK WAY	51+17 WW	LT	17
		52+56 WW	LT	7
		52+99 WW	LT	15
		53+43 WW	LT	21
		SUBTOTAL		60
	FREEPORT	11+75 CW	RT/LT	11
		SUBTOTAL		11
	NIEMANN PL	18+60 BP	LT	18
		SUBTOTAL		18
		SUBTOTAL (0010)		89
0020	FISH HATCHERY & WHALEN	103+35 FHW	LT	32
		SUBTOTAL		32
	SEMINOLE & SENTINEL	98+16 SP	RT	21
		SUBTOTAL		21
		SUBTOTAL (0020)		53
			TOTAL	142

ASPHALTIC FLUMES

CATEGORY	PROJECT LOCATION	STATION	LOCATION	465.0315 SY
0010	WEST BELTLINE FRONTAGE RD	89+47 SF	LT	11
		SUBTOTAL		11
	FREEPORT RD	19+38 FP	LT	9
		SUBTOTAL		9
		SUBTOTAL (0010)		20
0020	CTH PB & CTH M	101+18 MPB	LT	6
		SUBTOTAL		6
	FISH HATCHERY & WHALEN	96+68 FHW	LT	9
		105+56 FHW	LT	8
		99+41 WFH	LT	6
		SUBTOTAL		23
	CTH M & FISH HATCHERY	99+52 MFH	LT	3
		100+66 MFH	LT	5
		99+19 WFH	RT	6
		98+60 WFH	LT	7
		SUBTOTAL		21
	SEMINOLE & LACY	99+63 LR	LT	4
		100+52 LR	LT	4
		99+23 SL	LT	7
		99+34 SL	RT	8
		SUBTOTAL		23
		SUBTOTAL (0020)		73
			TOTAL	93

RUMBLE STRIP

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	465.0400 ASPHALTIC SHOULDER LF	465.0450 ASPHALTIC INTERSECTION SY
0010	WEST BELTLINE WIDENING	1025+00 - 1077+41	MED LT	5,250	---
		1026+10 - 1036+22	LT	1,020	---
		1026+33 - 1077+41	MED RT	5,100	---
		1053+85 - 76+17 L	LT	2,220	---
		SUBTOTALS		13,590	0
	WEST BELTLINE FRONTAGE ROAD	1176+73 - 1182+12	RT	540	---
		1187+73 - 1193+73	RT	600	---
		SUBTOTALS		1,140	0
	SAND & TRASH COLLECTOR	1192+59 - 1197+34	LT	475	---
		1187+25 - 1210+00	MED LT	2,280	---
		SUBTOTALS		2,755	0
		SUBTOTALS (0010)		17,485	0
0020	CTH M & FISH HATCHERY	95+81 MFH - 96+06 MFH	RT	---	33
		97+06 MFH - 97+31 MFH	RT	---	33
		102+71 MFH - 102+96 MFH	LT	---	33
		103+96 MFH - 104+21 MFH	LT	---	33
		SUBTOTALS (0020)		0	132
			TOTALS	17,485	132

DRILLED TIE BARS

CATEGORY	PROJECT LOCATION	STATION	LOCATION	416.0610 EACH
0010	SAND & TRASH COLLECTOR	1192+59	LT	2
		1197+34	LT	2
		SUBTOTAL		4
	TODD DRIVE STORM SEWER	11+07 TD	RT	2
		11+54 TD	RT	2
		SUBTOTAL		4
		TOTAL		8

3

ASPHALTIC ITEMS SUMMARY

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG 58-28 TON	455.0115 ASPHALTIC MATERIAL PG 64-22 TON	455.0120 ASPHALTIC MATERIAL PG 64-28 TON	455.0605 TACK COAT GAL	460.1101 TYPE E-1 TON	460.1103 TYPE E-3 TON	460.1110 TYPE E-10 TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (DRIVEWAYS) TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (PARKING LOTS) TON	465.0305 ASPHALTIC SURFACE SAFETY ISLANDS TON
0010	WEST BELTLINE	1017+14 - 1020+11	LT	---	---	---	3	---	---	21	---	---	---	---
	WIDENING	1025+00 - 1077+41	LT	---	165.0	77.0	750	---	---	4,410	---	---	---	---
		1026+10 - 1036+22	LT	---	20.0	9.2	90	---	---	530	---	---	---	---
		1026+33 - 1077+41	RT	---	76.0	35.0	350	---	---	2,020	---	---	---	---
		1026+10 - 1035+28	LT	---	---	13.0	60	---	---	235	---	---	---	---
		1053+85 - 1063+87	LT	---	17.0	8.1	80	---	---	465	---	---	---	---
		1063+87 - 76+24 L	LT	---	14.0	6.5	60	---	---	375	---	---	---	---
		1065+75 - 71+81 L	LT	---	---	4.5	20	---	---	82	---	---	---	---
		SUBTOTALS		0.0	292.0	153.3	1413	0	0	8,138	0	0	0	0
	BELTLINE STROM	1125+20 - 1125+49	LT	---	1.6	0.4	6	---	---	37	---	---	---	---
	SEWER CROSSING	1125+48 - 1125+56	RT	---	1.0	0.2	3	---	---	22	---	---	---	---
		1126+46	RT	---	1.5	0.4	5	---	---	33	---	---	---	---
		1126+17 - 1128+04	LT	---	2.6	0.6	9	---	---	58	---	---	---	---
		1124+72	PATH LT	0.2	---	---	---	3	---	---	---	---	---	---
		1125+64 - 1126+92	PATH LT	1.1	---	---	---	20	---	---	---	---	---	---
		SUBTOTALS		1.3	6.7	1.6	23	23	0	150	0	0	0	0
	N-13-2	1159+67 - 1177+35	LT	---	---	11.0	50	---	---	200	---	---	---	---
		SUBTOTALS		0.0	0.0	11.0	50	0	0	200	0	0	0	0
	B-13-664	1169+00 - 1174+17	LT	---	10.0	4.7	20	---	---	265	---	---	---	---
		1168+50 - 1173+00	MED	---	9.9	4.6	40	---	---	265	---	---	---	---
		SUBTOTALS		0.0	19.9	9.3	60	0	0	530	0	0	0	0
	WEST BELTLINE	1160+00 - 1198+78	MED RT	---	---	26.0	100	---	---	480	---	---	---	---
	FRONTAGE ROAD	1160+43 - 1177+20	RT	---	---	11.0	100	---	---	190	---	---	---	---
		1164+64 - 1177+20	RT	---	4.0	7.4	20	---	---	135	---	---	---	---
		1177+20 - 1193+73	RT	---	61.0	29.0	250	---	---	1,640	---	---	---	---
		1177+89 S - 1180+61 S	LT/RT	---	---	14.0	20	---	250	---	---	---	---	---
		1180+61 S - 1182+12 S	LT/RT	---	4.6	2.2	20	---	---	125	---	---	---	---
		73+50 SF - 89+50 SF	LT/RT	---	39.0	19.0	90	---	705	---	---	---	---	---
		71+63 SF - 80+71 SF	PATH RT	9.4	---	---	---	170	---	---	---	---	---	---
		SUBTOTALS		9.4	108.6	108.6	600	170	955	2,570	0	0	0	0
	SAND & TRASH	1192+59 - 1197+34	LT	---	6.8	3.2	30	---	---	180	---	---	---	---
	COLLECTOR	1192+59 - 1197+34	LT	---	---	1.6	8	---	---	30	---	---	---	---
		1185+38 - 1204+29	MED LT	---	---	14.0	70	---	---	250	---	---	---	---
		SUBTOTALS		0.0	6.8	18.8	108	0	0	460	0	0	0	0
	TODD DRIVE													
	STORM SEWER	11+07 TD - 11+55 TD	RT	---	---	1.2	2	---	21	---	---	---	---	---
		SUBTOTALS		0.0	0.0	1.2	2	0	21	0	0	0	0	0

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ASPHALTIC ITEMS SUMMARY (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG 58-28 TON	455.0115 ASPHALTIC MATERIAL PG 64-22 TON	455.0120 ASPHALTIC MATERIAL PG 64-28 TON	455.0605 TACK COAT GAL	460.1101 TYPE E-1 TON	460.1103 TYPE E-3 TON	460.1110 TYPE E-10 TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (DRIVEWAYS) TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (PARKING LOTS) TON	465.0305 ASPHALTIC SURFACE SAFETY ISLANDS TON
0010 (CON'T)	VERONA RD	975+15 VR - 986+85 VR	LT	---	---	---	150	---	---	830	---	---	---	---
		986+20 VR - 987+16 VR	LT	---	---	---	3	---	---	17	---	---	---	---
		975+15 VR - 997+80 VR	LT	---	180.0	---	300	---	---	1,940	---	---	---	---
		989+01 VR - 991+19 VR	LT	4.8	---	---	9	88	---	---	---	---	---	---
		94+93 EE - 95+24 EE	LT/RT	1.4	---	---	3	25	---	---	---	---	---	---
		98+11 EE - 98+11 WN	LT/RT	16.0	---	---	30	290	---	---	---	---	---	---
		116+68 EE - 117+10 EE	LT	1.2	---	---	2	22	---	---	---	---	---	---
		98+74 SU - 98+89 SU	LT/RT	1.3	---	---	2	23	---	---	---	---	---	---
		98+74 SU - 99+02 SU	LT	1.0	---	---	2	18	---	---	---	---	---	---
		107+20 WN - 108+45 WN	LT/RT	2.3	---	---	5	42	---	---	---	---	---	---
		UNDISTRIBUTED	---	---	---	---	---	---	---	---	35	---	---	---
		SUBTOTALS		28.0	180.0	0.0	506	508	0	2,787	35	0	0	0
	FREEPORT RD	11+00 FP - 21+47 FP	LT/RT	65.0	---	---	150	1,180	---	---	---	12	---	---
		9+99 BI - 15+75 BI	LT/RT	9.0	---	---	---	135	---	---	---	---	---	---
		10+16 TL - 10+97 TL	LT/RT	4.4	---	---	9	80	---	---	---	---	---	---
		10+06 CW - 11+87 CW	LT/RT	---	---	---	---	1	---	---	---	115	---	---
		SUBTOTALS		78.4	0.0	0.0	159	1,396	0	0	0	127	0	0
	BRITTA PKWY	17+96 BP - 19+81 BP	LT/RT	6.9	---	---	10	125	---	---	---	---	---	---
		10+00 NP - 10+93 NP	LT/RT	---	---	---	---	---	---	---	---	39	---	---
		121+65 EE - 122+69 EE	RT	---	---	---	---	---	---	---	---	---	17	---
		SUBTOTALS		6.9	0.0	0.0	10.0	125	0	0	0	39	17	0
	U-HAUL PARKING LOT	10+00 UH - 13+50 UH	LT/RT	---	---	---	---	---	---	---	---	---	225	---
		SUBTOTALS		0.0	0.0	0.0	0	0	0	0	0	0	225	0
	WARWICK WAY	50+75 WW - 53+50 WW	LT/RT	5.2	---	---	---	94	---	---	---	1	---	---
		51+62 WW	BIKE PATH RT	0.5	---	---	---	9	---	---	---	5	---	---
		SUBTOTALS		5.7	0.0	0.0	0	103	0	0	0	6	0	0
	ITS	1211+67 - 1213+13	LT/RT	---	1.2	0.6	5	---	---	32	---	---	---	---
		1386+00 JN - 1387+46.5 JN	LT/RT	---	10.0	4.7	4	---	---	27	---	---	---	---
		SUBTOTALS		0.0	11.2	5.3	9	0	0	59	0	0	0	0
		SUBTOTALS (0010)		129.7	625.2	309.1	2,940	2,325	976	14,894	35	172	242	0

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ASPHALTIC ITEMS SUMMARY (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG 58-28 TON	455.0115 ASPHALTIC MATERIAL PG 64-22 TON	455.0120 ASPHALTIC MATERIAL PG 64-28 TON	455.0605 TACK COAT GAL	460.1101 TYPE E-1 TON	460.1103 TYPE E-3 TON	460.1110 TYPE E-10 TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (DRIVEWAYS) TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (PARKING LOTS) TON	465.0305 ASPHALTIC SURFACE SAFETY ISLANDS TON
0020	CTH PB	91+49 PB - 91+74 PB	RT	---	---	0.4	2	---	6	---	---	---	---	---
	&	93+39 PB - 93+64 PB	RT	---	---	0.4	2	---	6	---	---	---	---	---
	CTH M	95+61 PB - 95+90 PB	RT	---	---	0.4	2	---	8	---	---	---	---	---
		99+38 PB - 99+59 PB	LT	---	---	---	---	---	---	---	---	---	---	2
		100+39 PB - 100+56 PB	RT	---	---	---	---	---	---	---	---	---	---	2
		101+54 PB - 105+26 PB	LT	---	3.5	1.7	20	---	95	---	---	---	---	---
		104+57 PB - 104+85 PB	LT	---	---	0.4	2	---	7	---	---	---	---	---
		106+61 PB - 106+88 PB	LT	---	---	0.4	2	---	7	---	---	---	---	---
		86+66 MPB - 86+96 MPB	LT/RT	---	---	0.3	1	---	5	---	---	---	---	---
		93+96 MPB - 94+26 MPB	RT	---	---	0.3	1	---	5	---	---	---	---	---
		95+73 MPB - 95+98 MPB	RT	---	---	0.2	1	---	4	---	---	---	---	---
		99+28 MPB - 99+52 MPB	RT	---	---	---	---	---	---	---	---	---	---	2
		100+46 MPB - 100+70 MPB	LT	---	---	---	---	---	---	---	---	---	---	2
		101+25 MPB - 103+17 MPB	LT	---	0.6	0.3	3	---	17	---	---	---	---	---
		103+94 MPB - 104+19 MPB	LT	---	---	0.2	1	---	4	---	---	---	---	---
		106+25 MPB - 106+50 MPB	LT	---	---	0.2	1	---	4	---	---	---	---	---
		112+20 MPB - 112+47 MPB	LT	---	---	0.2	1	---	4	---	---	---	---	---
		SUBTOTALS		0.0	4.1	5.4	39	0	172	0	0	0	0	8
	CTH M	92+02 MFH - 108+00 MFH	LT/RT	---	12.0	31.0	150	---	775	---	---	---	---	---
	&	93+30 MFH - 93+80 MFH	LT/RT	---	0.9	0.9	8	---	32	---	---	---	---	---
	FISH HATCHERY	94+02 MFH - 94+30 MFH	RT	---	---	0.5	1	---	9	---	---	---	---	---
		95+76 MFH - 96+04 MFH	RT	---	0.3	0.6	3	---	18	---	---	---	---	---
		95+37 MFH	RT	---	---	---	---	---	---	---	---	4	---	---
		97+95 MFH	LT	---	---	---	---	---	---	---	---	4	---	---
		103+59 MFH	LT	---	---	---	---	---	---	---	---	3	---	---
		103+70 MFH - 103+96 MFH	LT	---	---	0.5	1	---	8	---	---	---	---	---
		104+12 MFH	LT	---	---	---	---	---	---	---	---	2	---	---
		105+06 MFH - 105+56 MFH	LT/RT	---	---	0.9	4	---	16	---	---	---	---	---
		106+62 MFH	LT	---	---	---	---	---	---	---	---	2	---	---
		93+17 FHM - 99+73 FHM	LT/RT	---	13.0	14.0	100	---	480	---	---	---	---	---
		95+41 FHM - 95+91 FHM	LT/RT	---	---	0.6	3	---	12	---	---	---	---	---
		95+85 FHM	LT	---	---	---	---	---	---	---	---	1	---	---
		97+68 FHM	LT	---	---	---	---	---	---	---	---	1	---	---
		97+84 FHM	RT	---	---	---	---	---	---	---	---	2	---	---
		98+85 FHM	RT	---	---	---	---	---	---	---	---	1	---	---
		100+25 FHM - 106+97 FHM	LT/RT	---	15.0	15.0	100	---	545	---	---	---	---	---
		101+69 FHM	LT	---	---	---	---	---	---	---	---	4	---	---
		104+97 FHM	RT	---	---	---	---	---	---	---	---	6	---	---
		105+20 FHM - 105+70 FHM	LT/RT	---	---	0.6	3	---	12	---	---	---	---	---
		SUBTOTALS		0.0	41.2	64.6	373	0	1,907	0	0	30	0	0
	FISH HATCHERY	95+84 FHW - 96+34 FHW	LT/RT	---	---	0.6	3	---	12	---	---	---	---	---
	&	96+11 FHW	LT	---	---	---	---	---	---	---	---	3	---	---
	WHALEN	96+34 FHW - 105+77 FHW	LT/RT	---	21.0	23.0	150	---	800	---	---	---	---	---
		96+40 FHW	LT	---	---	---	---	---	---	---	---	3	---	---
		99+48 FHW - 99+63 FHW	LT/RT	---	0.4	0.2	2	---	12	---	---	---	---	---
		100+27 FHW - 108+59 FHW	LT	8.2	---	---	---	150	---	---	---	---	---	---
		103+33 FHW	LT	---	---	---	---	---	---	---	---	4	---	---
		FHW at SHAMROCK LANE	LT/RT	---	---	0.6	3	---	12	---	---	---	---	---
		FHW at SHAMROCK LANE	LT/RT	---	12.0	7.7	70	---	360	---	---	---	---	---
		108+74 FHW	LT	---	---	---	---	---	---	---	---	5	---	---
		97+37 WFH - 97+87 WFH	LT/RT	---	---	0.6	3	---	12	---	---	---	---	---
		97+87 WFH - 99+65 WFH	LT/RT	---	3.3	3.8	30	---	130	---	---	---	---	---
		98+45 WFH	RT	---	---	---	---	---	---	---	---	3	---	---
		99+27 WFH - 99+42 WFH	LT/RT	---	0.4	0.2	2	---	11	---	---	---	---	---
		100+17 WFH - 100+64 WFH	LTRT	---	---	1.0	5	---	18	---	---	---	---	---
		SUBTOTALS		8.2	37.1	37.7	268	150	1,367	0	0	18	0	0

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ASPHALTIC ITEMS SUMMARY (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG 58-28 TON	455.0115 ASPHALTIC MATERIAL PG 64-22 TON	455.0120 ASPHALTIC MATERIAL PG 64-28 TON	455.0605 TACK COAT GAL	460.1101 TYPE E-1 TON	460.1103 TYPE E-3 TON	460.1110 TYPE E-10 TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (DRIVEWAYS) TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (PARKING LOTS) TON	465.0305 ASPHALTIC SURFACE SAFETY ISLANDS TON
0020 (CON'T)	SEMINOLE & LACY	90+54 SL - 91+04 SL	LT/RT	---	---	0.8	3	---	15	---	---	---	---	---
		90+54 SL - 107+03 SL	LT/RT	---	27.0	42.0	250	---	1,270	---	---	---	---	---
		91+90 SL	RT	---	---	---	---	---	---	---	---	3	---	---
		92+56 SL - 92+73 SL	RT	---	0.7	0.4	3	---	18	---	---	---	---	---
		94+35 SL - 94+50 SL	LT/RT	---	0.7	0.4	3	---	19	---	---	---	---	---
		106+35 SL	LT	---	---	---	---	---	---	---	---	4	---	---
		106+53 SL - 107+03 SL	LT/RT	---	1.6	1.0	8	---	48	---	---	---	---	---
		96+50 LR - 99+50 LR	LT/RT	---	2.6	0.7	10	---	60	---	---	---	---	---
		98+00 LR	LT	---	---	---	---	---	---	---	---	4	---	---
		98+50 LR - 99+00 LR	LT/RT	---	---	0.7	3	---	13	---	---	---	---	---
		100+56 LR - 103+02 LR	LT/RT	---	4.1	0.7	10	---	87	---	---	---	---	---
		103+02 LR 103+52 LR	LT/RT	---	---	1.1	5	---	20	---	---	---	---	---
		SUBTOTALS		0.0	36.7	47.8	295	0	1,550	0	0	11	0	0
	SEMINOLE & CTH PD	93+47 PD - 98+00 PD	RT	---	---	7.7	20	---	140	---	---	---	---	---
		SUBTOTALS		0.0	0.0	7.7	20	0	140	0	0	0	0	0
	SEMINOLE & SENTINEL	95+87 SS - 100+00 SS	RT	---	3.9	1.9	20	---	105	---	---	---	---	---
		100+00 SS - 103+27 SS	RT	---	4.0	2.0	20	---	110	---	---	---	---	---
		103+07 SS	LT	---	---	---	---	---	---	---	---	2	---	---
		97+07 SP - 99+70 SP	LT/RT	---	3.2	1.6	10	---	86	---	---	---	---	---
		SUBTOTALS		0.0	11.1	5.5	50	0	301	0	0	2	0	0
	SEMINOLE/YUMA & NAKOMA	98+71 N - 100+69 N	LT/RT	---	2.2	5.2	30	---	135	---	---	---	---	---
		99+14 SN - 100+66 SN	LT/RT	---	1.2	2.8	20	---	73	---	---	---	---	---
		SUBTOTALS		0.0	3.4	8.0	50	0	208	0	0	0	0	0
	WHITNEY & GILBERT	97+11 W - 98+60 W	RT	---	1.7	0.8	8	---	46	---	---	---	---	---
		100+00 W - 102+62 W	LT/RT	---	3.2	1.6	10	---	86	---	---	---	---	---
		SUBTOTALS		0.0	4.9	2.4	18	0	132	0	0	0	0	0
		SUBTOTALS (0020)		8.2	138.5	179.1	1,113	150	5,777	0	0	61	0	8
0050	WHITNEY WAY BIKE PATH	64+50 WP - 76+48 WP	LT/RT	12.0	---	---	---	220	---	---	---	---	---	---
		SUBTOTALS (0050)		12.0	0.0	0.0	0	220	0	0	0	0	0	0
			TOTALS	149.9	763.7	488.2	4,053	2,695	6,753	14,894	35	233	242	8

CULVERT PIPE ITEMS

CATEGORY	PROJECT LOCATION	STATION	LOCATION	*520.8000 CONCRETE COLLARS FOR PIPE EACH	*521.0112 CULVERT PIPE CORRUGATED STEEL 12-INCH LF	*521.0115 CULVERT PIPE CORRUGATED STEEL 15-INCH LF	*521.0124 CULVERT PIPE CORRUGATED STEEL 24-INCH LF	521.0721 PIPE ARCH CORRUGATED STEEL 21X15-INCH LF	521.0735 PIPE ARCH CORRUGATED STEEL 35X24-INCH LF	521.0749 PIPE ARCH CORRUGATED STEEL 49X33-INCH LF	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH	521.1015 APRON ENDWALLS FOR CULVERT PIPE STEEL 15-INCH EACH	520.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH EACH	521.1221 APRON ENDWALLS FOR PIPE ARCH STEEL 21X15-INCH EACH	521.1235 APRON ENDWALLS FOR PIPE ARCH STEEL 35X24-INCH EACH	521.1249 APRON ENDWALLS FOR PIPE ARCH STEEL 49X33-INCH EACH	THICKNESS (INCHES) STEEL	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	523.0414 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 14X23-INCH LF	523.0429 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29x45-INCH LF	*523.0514 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 14X23-INCH EACH	523.0529 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29x45-INCH EACH	*611.9800.S PIPE GRATES EACH	*633.5200 MARKERS CULVERT END EACH	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH
0020	CTH M & FISH HATCHERY	95+38 MFH	RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	---	2	---	---	---	1
		104+59 MFH	LT/RT	1	---	---	2	---	---	---	---	---	1	---	---	---	0.064	8	---	---	---	---	---	1	1
		106+62 MFH	LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	18	---	2	---	---	---	1
		95+85 FHM	LT	---	---	---	---	22	---	---	---	---	---	2	---	---	0.064	---	---	---	---	---	---	---	1
		97+68 FHM	LT	---	---	---	---	16	---	---	---	---	---	2	---	---	0.064	---	---	---	---	---	---	---	1
		97+84 FHM	RT	---	---	---	---	18	---	---	---	---	---	2	---	---	0.064	---	---	---	---	---	---	---	1
		101+69 FHM	LT	---	---	---	---	22	---	---	---	---	---	2	---	---	0.064	---	---	---	---	---	---	---	1
		104+97 FHM	RT	---	---	---	---	58	---	---	---	---	---	2	---	---	0.064	---	---	---	---	---	---	---	1
		SUBTOTALS		1	0	0	2	136	0	0	0	0	1	10	0	0	---	8	38	0	4	0	0	1	8
	FISH HATCHERY & WHALEN	98+44 WFH	RT	---	---	---	---	36	---	---	---	---	---	2	---	---	0.064	---	---	---	---	---	---	---	1
		SUBTOTALS		0	0	0	0	36	0	0	0	0	0	2	0	0	---	0	0	0	0	0	0	0	1
	SEMINOLE & LACY	91+90 SL	RT	---	28	---	---	---	---	---	2	---	---	---	---	---	0.064	---	---	---	---	---	---	---	1
		92+64 SL	LT/RT	---	---	---	---	---	---	48	---	---	---	---	---	2	0.109	---	---	---	---	---	2	2	1
		94+43 SL	LT/RT	---	---	---	---	---	56	---	---	---	---	---	2	---	0.079	---	---	---	---	---	---	---	1
		106+35 SL	LT	---	32	---	---	---	---	---	2	---	---	---	---	---	0.064	---	---	---	---	---	---	---	1
		98+83 LR	LT/RT	2	---	6	---	---	---	---	---	2	---	---	---	---	0.064	---	---	---	---	---	---	---	1
		100+73 LR	LT/RT	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	---	2	2	2	1
		100+80 LR	LT/RT	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28	---	2	2	2	1
		SUBTOTALS		6	60	6	0	0	56	48	4	2	0	0	2	2	---	0	0	58	0	4	6	10	7
		TOTALS		7	60	6	2	172	56	48	4	2	1	12	2	2	---	8	38	58	4	4	6	11	16

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.
** MEASURED FROM THE END OF PIPE NOT THE END OF ENDWALL.

FOR INFORMATION ONLY

PROJECT LOCATION	STATION	LOCATION	UPSTREAM STATION**	UPSTREAM OFFSET**	UPSTREAM PIPE INVERT**	DOWNSTREAM STATION**	DOWNSTREAM OFFSET**	DOWNSTREAM PIPE INVERT**
CTH M & FISH HATCHERY	95+38 MFH	RT	95+48 MFH	33.4' RT	965.85	95+28 MFH	33.3' RT	965.75
	104+59 MFH	RT	104+59 MFH	29.5' RT	962.96	104+59 MFH	31.5' RT	962.94
	106+62 MFH	LT	106+55 MFH	27.6' LT	964.63	106+73 MFH	27.5' LT	964.15
	95+85 FHM	LT	95+92 FHM	27.9' LT	962.79	95+78 FHM	27.9' LT	962.68
	97+68 FHM	LT	97+75 FHM	35.9' LT	964.24	97+61 FHM	35.2' LT	964.13
	97+84 FHM	RT	97+92 FHM	41.1' RT	964.14	97+76 FHM	40.5' RT	964.06
	101+69 FHM	LT	101+78 FHM	37.2' LT	967.42	101+60 FHM	37.9' LT	967.29
	104+97 FHM	RT	105+16 FHM	36.6' RT	969.26	104+76 FHM	37.8' RT	969.00
SEMINOLE & LACY	91+90 SL	RT	91+73 SL	28.9' RT	1018.27	92+02 SL	28.6' RT	1017.99
	92+64 SL	LT/RT	92+64 SL	21.4' RT	1017.38	92+64 SL	27.5' LT	1016.99
	94+43 SL	LT/RT	94+44 SL	22.7'RT	1017.76	94+41 SL	33.4'LT	1017.48
	106+35 SL	LT	106+44 SL	29.4' LT	1025.97	106+28 SL	28.9' LT	1025.85
	98+83 LR	LT/RT	98+84 L	20.3' LT	1021.58	98+82 L	20.5' RT	1021.47
	100+73 LR	LT/RT	100+74 L	38.2' LT	1021.42	100+73 L	28.6' RT	1020.98
	100+80 LR	LT/RT	100+80 L	36.8' LT	1021.42	100+79 L	27.9' RT	1021.05

CURB AND GUTTER SUMMARY

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	465.0310 ASPHALTIC CURB LF	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0576 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE J LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	SPV.0090.07 CONCRETE CURB & GUTTER 4-INCH SLOPED 24-INCH TYPE D LF	SPV.0090.08 CONCRETE CURB & GUTTER 32-INCH SPECIAL LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF
0010	WEST BELTLINE WIDENING	1063+87 - 1066+88	LT	---	---	---	---	---	---	300	---	---	300
		66+88 L - 76+24 L	LT	---	---	---	---	---	---	925	---	---	925
		SUBTOTALS		0	0	0	0	0	0	1,225	0	0	1,225
	BELTLINE STORM SEWER CROSSING	1125+46 - 1125+58	RT	---	---	---	---	---	12	---	---	---	12
		1126+31 - 1126+54	RT	---	---	---	---	---	23	---	---	---	23
		1126+21 - 1128+02	LT	---	---	---	260	---	---	---	---	---	260
		SUBTOTALS		0	0	0	260	0	35	0	0	0	295
	B-13-664	8+74 SH - 9+19 SH	LT/RT	---	---	110	---	---	---	---	---	---	---
		10+85 SH - 11+31 SH	LT/RT	---	---	97	---	---	---	---	---	---	---
		SUBTOTALS		0	0	207	0	0	0	0	0	0	0
	WEST BELTLINE FRONTAGE ROAD	1180+08 - 1180+76	RT	---	---	---	---	---	68	---	---	---	68
		1180+10 S - 1180+76 S	LT	---	---	---	---	---	---	70	---	---	70
		1180+63 S - 1181+74 S	RT	---	---	---	---	---	110	---	---	---	110
		1181+74 S - 1182+12 S	RT	---	---	---	---	---	---	---	---	38	38
		73+50 SF - 83+75 SF	RT	---	---	---	1,020	---	---	---	---	---	1,020
		73+50 SF - 80+07 SF	LT	---	---	---	655	---	---	---	---	---	655
		74+57 SF - 79+21 SF	MED	---	---	---	---	---	---	---	925	---	925
		77+95 SF - 80+74 SF	MED	---	---	---	---	---	---	---	560	---	560
		80+66 SF - 89+42 SF	LT	---	---	---	875	---	---	---	---	---	875
		SUBTOTALS		0	0	0	2,550	0	178	70	1,485	38	4,321
	VERONA RD	975+15 VR - 982+80 VR	LT	765	---	---	---	---	---	---	---	---	---
		986+20VR 987+16VR	LT	---	---	96	---	---	---	---	---	---	96
		988+99 VR - 991+24 VR	LT	---	---	---	250	---	---	---	---	---	250
		94+94 EE - 95+26 EE	LT	---	---	---	30	---	---	---	---	---	30
		98+11 EE - 98+49 EE	LT	---	---	---	42	---	---	---	---	---	42
		116+71 EE - 117+09 EE	LT	---	---	---	62	---	---	---	---	---	62
		98+54 WN - 99+11 WN	LT/RT	---	---	---	73	---	---	---	---	---	73
		107+17 WN - 107+49 WN	LT	---	---	---	30	---	---	---	---	---	30
		98+62 SU - 98+89 SU	LT/RT	---	---	---	43	---	---	---	---	---	43
		98+74 SU - 99+08 SU	LT	---	---	---	49	---	---	---	---	---	49
		SUBTOTALS		765	0	96	579	0	0	0	0	0	675
	FREEPORT RD	12+16 FP - 21+47 FP	LT	280	---	---	30	---	---	---	---	---	30
		10+85 FP - 21+53 FP	RT	935	---	---	---	---	---	---	---	---	---
		10+16 TL - 10+97 TL	LT	82	---	---	---	---	---	---	---	---	---
		10+16 TL - 10+97 TL	RT	110	---	---	---	---	---	---	---	---	---
		10+06 CW - 11+87 CW	LT	---	---	---	22	---	---	---	---	---	22
		SUBTOTALS		1,407	0	0	52	0	0	0	0	0	52
	BRITTA PKWY	10+75 NP - 10+92 NP	RT	30	---	---	---	---	---	---	---	---	---
		17+96 BP - 19+81 BP	LT	---	---	---	195	---	---	---	---	---	195
		17+96 BP - 19+81 BP	RT	---	---	---	175	---	---	---	---	---	175
		121+73 EE - 121+84 EE	RT	---	---	---	12	---	---	---	---	---	12
		122+76 EE - 123+54 EE	LT	---	---	---	78	---	---	---	---	---	78
		SUBTOTALS		30	0	0	460	0	0	0	0	0	460
	U-HAUL PARKING LOT	10+00 UH - 13+50 UH	LT	---	115	---	---	---	---	---	---	---	115
		10+00 UH - 13+50 UH	RT	---	360	---	---	---	---	---	---	---	360
		SUBTOTALS		0	475	0	0	0	0	0	0	0	475
	WARWICK WAY	50+75 WW - 53+50 WW	RT/LT	---	---	---	550	---	---	---	---	---	550
		SUBTOTALS		0	0	0	550	0	0	0	0	0	550
		SUBTOTALS (0010)		2,202	475	303	4,451	0	213	1,295	1,485	38	8,053

CON'T ON NEXT PAGE

CURB AND GUTTER SUMMARY (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	465.0310 ASPHALTIC CURB LF	601.0407 18-INCH TYPE D LF	601.0409 30-INCH TYPE A LF	601.0411 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0576 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE J LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	SPV.0090.07 CONCRETE CURB & GUTTER 4-INCH SLOPED 24-INCH TYPE D LF	SPV.0090.08 32-INCH SPECIAL LF	650.5500 CONSTRUCTION STAKING CURB GUTTER & CURB AND GUTTER LF
0020	CTH PB & CTH M	101+54 PB - 105+26 PB	LT	---	---	---	370	---	---	---	---	---	370
		101+12 MPB - 103+07 MPB	LT	---	---	---	190	---	---	---	---	---	190
		SUBTOTALS		0	0	0	560	0	0	0	0	0	560
	CTH M & FISH HATCHERY	99+22 MFH - 99+23 FHM	RT/LT	---	---	---	---	76	---	---	---	---	76
		99+13 MFH - 100+88 FHM	LT/LT	---	---	---	---	88	---	---	---	---	88
		98+64 FHM - 100+88 MFH	RT/RT	---	---	---	---	140	---	---	---	---	140
		100+87 FHM - 100+88 MFH	RT/LT	---	---	---	---	89	---	---	---	---	89
		SUBTOTALS		0	0	0	0	393	0	0	0	0	393
	FISH HATCHERY & WHALEN	96+74 FHW - 99+19 FHW	LT	---	---	---	245	---	---	---	---	---	245
		99+19 FHW - 99+08 WFH	LT/RT	---	---	---	---	85	---	---	---	---	85
		99+27 WFH - 100+52 FHW	LT/LT	---	---	---	---	59	---	---	---	---	59
		100+52 FHW - 105+50 FHW	LT	---	---	---	500	---	---	---	---	---	500
		SUBTOTALS		0	0	0	745	144	0	0	0	0	889
	SEMINOLE & LACY	99+27 SL - 99+14 LR	LT/RT	---	---	---	---	74	---	---	---	---	74
		99+39 SL - 100+54 LR	RT/RT	---	---	---	---	67	---	---	---	---	67
		99+34 LR - 100+51 SL	LT/LT	---	---	---	---	65	---	---	---	---	65
		100+88 LR - 100+92 SL	LT/RT	---	---	---	---	85	---	---	---	---	85
		SUBTOTALS		0	0	0	0	291	0	0	0	0	291
	SEMINOLE & CTH PD	93+47 PD - 98+00 PD	RT	---	---	---	455	---	---	---	---	---	455
		SUBTOTALS		0	0	0	455	0	0	0	0	0	455
	SEMINOLE & SENTINEL	95+87 SS - 99+75 SS	LT	---	---	---	395	---	---	---	---	---	395
		97+10 SP - 99+57 SP	RT	---	---	---	255	---	---	---	---	---	255
		97+56 SP - 97+79 SP	LT/RT	---	---	---	---	---	---	---	22	---	22
		95+36 SP - 103+27 SS	LT/LT	---	---	---	325	---	---	---	---	---	325
		SUBTOTALS		0	0	0	975	0	0	0	22	0	997
	WHITNEY & GILBERT	97+11 W - 98+55 W	LT	---	---	---	155	---	---	---	---	---	155
		100+00 W - 102+62 W	RT	---	---	---	270	---	---	---	---	---	270
		SUBTOTALS		0	0	0	425	0	0	0	0	0	425
	SEMINOLE & YUMA	98+98 N - 99+07 N	RT	---	---	---	14	---	---	---	---	---	---
		99+16 SN - 99+36 SN	LT	---	---	---	42	---	---	---	---	---	---
		99+24 SN - 99+42 SN	RT	---	---	---	20	---	---	---	---	---	---
		SUBTOTALS		0	0	0	76	0	0	0	0	0	0
		SUBTOTALS (0020)		0	0	0	3,236	828	0	0	22	0	4,010
			TOTALS	2,202	475	303	7,687	828	213	1,295	1,507	38	12,063

3

CONCRETE SIDEWALK SUMMARY

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0420 CONCRETE SIDEWALK 7-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	SPV.0165.09 STAMPED COLORED CONCRETE SIDEWALK 4-INCH SF
0010	B-13-664	8+76 SH - 9+14 SH	LT	290	---	8	---
		8+76 SH - 9+20 SH	RT	300	---	8	---
		10+80 SH - 11+25 SH	LT	270	---	8	---
		1062+23 - 11+04 SH	RT	90	---	---	---
		SUBTOTALS		950	0	24	0
	WEST BELTLINE FRONTAGE ROAD	1177+15 S - 1180+76 S	LT	3,950	---	---	---
		71+59 SF - 71+63 SF	RT	35	---	---	---
		74+57 SF - 1179+20 S	LT MED	3,400	---	---	---
		77+95 SF - 80+73 SF	LT MED	3,000	---	---	---
		80+66 SF - 82+11 SF	LT	1,600	---	---	---
		SUBTOTALS		11,985	0	0	0
	VERONA RD	93+59 EE - 98+48 EE	LT	2,650	---	---	---
		84+90 WN - 84+90 WN	LT/RT	290	---	16	---
		98+41 WN - 99+10 WN	LT/RT	400	---	8	---
		107+16 WN - 107+32 WN	LT	70	---	---	---
		98+73 SU - 98+88 SU	RT	75	---	---	---
		98+74 SU - 98+89 SU	LT	75	---	---	---
		116+94 EE - 117+18 EE	LT	160	---	---	---
		SUBTOTALS		3,720	0	24	0
	FREEPORT RD	10+90 FP	LT	70	---	---	---
		10+97 TL	LT/RT	120	---	16	---
		11+75 CW	LT/RT	---	85	---	---
		SUBTOTALS		190	85	16	0
	BRITTA PKWY	17+96 BP - 19+81 BP	LT/RT	1,350	100	24	---
		10+55 NP	LT	130	---	---	---
		SUBTOTALS		1,480	100	24	0
	WARWICK WAY	50+75 WW - 51+62 WW	RT	580	---	---	---
		51+62 WW - 51+73 WW	RT	---	180	16	---
		50+75 WW - 51+12 WW	LT	180	---	---	---
		51+12 WW - 51+21 WW	LT	---	50	---	---
		51+21 WW - 52+49 WW	LT	630	---	8	---
		52+49 WW - 52+59 WW	LT	---	40	---	---
		52+59 WW - 52+95 WW	LT	170	---	---	---
		52+95 WW - 53+04 WW	LT	---	45	---	---
		53+04 WW - 53+39 WW	LT	200	---	---	---
		53+39 WW - 53+48 WW	LT	---	45	---	---
		53+48 WW - 53+50 WW	LT	15	---	---	---
		SUBTOTALS		1,775	360	24	0
		SUBTOTALS (0010)		20,100	545	112	0

CON'T ABOVE

CONCRETE SIDEWALK SUMMARY (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0420 CONCRETE SIDEWALK 7-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	SPV.0165.09 STAMPED COLORED CONCRETE SIDEWALK 4-INCH SF
0020	SEMINOLE & YUMA	98+05 N - 98+15 N	LT	65	---	---	---
		99+54 N	RT/LT	95	---	16	---
		100+27 N	RT	40	---	8	---
		98+95 N - 99+07 N	RT	40	---	8	---
		100+37 N - 100+42 N	RT	20	---	---	---
		99+74 SN	RT	40	---	8	---
		SUBTOTALS		300	0	40	0
	FISH HATCHERY& WHALEN	100+21 FHW - 100+40 FHW	LT	140	---	20	---
		SUBTOTALS		140	0	20	0
	SEMINOLE & SENTINEL	97+56 SP - 97+79 SP	RT/LT	---	---	---	35
		SUBTOTALS		0	0	0	35
		SUBTOTALS (0020)		440	0	60	35
0050	WHITNEY WAY BIKE PATH	76+54 L - 76+74 L	LT	80	130	20	---
		SUBTOTALS (0050)		80	130	20	0
		TOTALS		20,620	675	192	35

CONCRETE STEPS

CATEGORY	PROJECT LOCATION	STATION	LOCATION	602.1500 SF
0010	WARWICK WAY	51+60 WW	30' LT	15
		52+22 WW	22' LT	10
			TOTAL	25

3

CONCRETE BARRIER

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	603.0105 SINGLE-FACED 32-INCH LF	603.1142 TYPE S42 LF	603.3113 TRANSITION TYPE NJ32SF TO S36 EACH	603.3313 TRANSITION TYPE NJ32DF TO S36 EACH	603.3535 TRANSITION TYPE S36 TO S42 EACH	603.3559 TRANSITION TYPE S42 TO S56 EACH	SPV.0060.89 TRANSITION P32-S42 SPECIAL EACH	SPV.0060.90 TRANSITION S56-56VERTICAL EACH	SPV.0060.91 TRANSITION S56-56VERTICAL SPECIAL EACH	SPV.0060.92 TRANSITION NJ32DF-S36 SPECIAL EACH	SPV.0060.93 TRANSITION S36-S42 SPECIAL EACH	SPV.0060.94 TRANSITION S42-S56 SPECIAL EACH	650.7500 CONSTRUCTION STAKING CONCRETE BARRIER LF
0010	WEST BELTLINE WIDENING	1036+15 - 1077+66	MED LT	---	4,150	---	---	---	---	1	---	---	---	---	---	4,170
		SUBTOTALS		0	4,150	0	0	0	0	1	0	0	0	0	0	4,170
	WEST BELTLINE FRONTAGE ROAD	1177+15 - 1180+09	RT	---	290	---	---	---	---	---	---	---	---	---	---	290
		1182+12 - 1193+06	RT	---	1,140	1	---	1	---	---	---	---	---	---	---	1,140
		SUBTOTALS		0	1,430	1	0	1	0	0	0	0	0	0	0	1,430
	SAND & TRASH COLLECTOR	1192+34 - 1199+36	LT	480	---	---	---	---	---	---	---	---	---	---	---	480
		SUBTOTALS		480	0	0	0	0	0	0	0	0	0	0	0	480
	TODD DRIVE STORM SEWER	9+20 TD - 11+79 TD	RT	47	---	---	---	---	---	---	---	---	---	---	---	47
		SUBTOTALS		47	0	0	0	0	0	0	0	0	0	0	0	47
	ITS	DMS-13-0032/0033	MED	---	---	---	---	---	---	---	---	2	2	2	2	150
		DMS-13-0034/0035	MED	---	---	---	2	2	2	---	2	---	---	---	---	150
		SUBTOTALS		0	0	0	2	2	2	0	2	2	2	2	2	300
		TOTALS		527	5,580	1	2	3	2	1	2	2	2	2	2	6,427

3

CONCRETE BARRIER FOR TRAFFIC CONTROL SUMMARY

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	SPV.0090.03 CONCRETE BARRIER PRECAST 12.5-FT LF	SPV.0090.04 RELOCATING CONCRETE BARRIER PRECAST 12.5-FT LF	SPV.0090.05 GLARE SCREENS TEMPORARY LF	614.0905 CRASH CUSHIONS TEMPORARY EACH	614.0800 CRASH CUSHIONS EACH	REMARKS
0010	WEST BELTLINE WIDENING	1015+80 - 1023+10	LT MED	730	730	---	---	730	---	---	60 MPH
		1023+10	LT MED	---	---	---	---	---	1	---	DESIGN
		1015+90 - 1023+07	RT MED	720	720	---	---	720	---	---	SPEED
		1015+90	RT MED	---	---	---	---	---	1	---	
		SUBTOTALS		1,450	1,450	0	0	1,450	2	0	
	BELTLINE STORM SEWER CROSSING	1121+01 - 1125+50	LT	---	---	450	---	---	---	---	60 MPH
		1125+50 - 1127+68	LT	220	220	---	---	---	---	---	DESIGN
		1127+68	LT	---	---	---	---	---	1	---	SPEED
		1121+01 - 1125+50	LT	---	---	---	450	---	---	---	
		1125+50	LT	---	---	---	---	---	---	1	
		1121+67 - 1128+20	RT	---	---	650	---	---	---	---	
		1121+67	RT	---	---	---	---	---	---	1	
		1121+67 - 1128+20	RT	---	---	---	650	---	---	---	
		SUBTOTALS		220	220	1,100	1,100	0	1	2	
	N-13-2	1158+71 - 1168+95	LT	1,020	1,020	---	---	---	---	---	60 MPH
		1168+95 - 1173+81	LT	---	---	485	---	---	---	---	DESIGN
		1173+81	LT	---	---	---	---	---	1	---	SPEED
		SUBTOTALS		1,020	1,020	485	0	0	1	0	
	B-13-664	1167+50 - 1175+44	LT MED	---	---	795	---	795	---	---	60 MPH
		1166+41 - 1171+66	RT MED	---	---	525	---	525	---	---	DESIGN
		1171+66 - 1176+27	RT MED	460	460	---	---	460	---	---	SPEED
		1168+95 - 1173+81	LT	---	---	---	485	---	---	---	
		1173+81	LT	---	---	---	---	---	---	1	
		1167+50 - 1175+44	LT MED	---	---	---	795	---	---	---	
		1166+41 - 1171+66	RT MED	---	---	---	525	---	---	---	
		1165+85 - 1177+05	RT	---	---	---	1,139	---	---	---	
		SUBTOTALS		460	460	1,320	2,944	1,780	0	1	
	SEMINOLE FRONTAGE ROAD	1165+85 - 1177+05	RT	---	---	1,125	---	---	---	---	60 MPH
		1177+05 - 1194+58	RT	1,750	1,750	---	---	---	---	---	DESIGN
		1165+85	RT	---	---	---	---	---	---	1	SPEED
		1175+00 - 1177+05	RT	---	---	---	205	---	---	---	
		1177+05 - 1177+56	RT	---	50	---	---	---	---	---	
		SUBTOTALS		1,750	1,800	1,125	205	0	0	1	
	SAND & TRASH COLLECTOR	1192+19 - 1199+36	LT	715	715	---	---	---	---	---	60 MPH
		1199+36	LT	---	---	---	---	---	1	---	DESIGN
		SUBTOTALS		715	715	0	0	0	1	0	SPEED

CON'T ABOVE

CONCRETE BARRIER FOR TRAFFIC CONTROL SUMMARY (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	SPV.0090.03 CONCRETE BARRIER PRECAST 12.5-FT LF	SPV.0090.04 RELOCATING CONCRETE BARRIER PRECAST 12.5-FT LF	SPV.0090.05 GLARE SCREENS TEMPORARY LF	614.0905 CRASH CUSHIONS TEMPORARY EACH	614.0800 CRASH CUSHIONS EACH	REMARKS
0010 (CON'T.)	TODD DRIVE STORM SEWER	9+20 TD - 12+27 TD	RT	305	305	---	---	---	---	---	45 MPH
		9+20 TD	RT	---	---	---	---	---	1	---	DESIGN
		SUBTOTALS		305	305	0	0	0	1	0	SPEED
	VERONA RD	975+11 VR - 985+35 VR	LT	---	---	1,020	---	---	---	---	40 MPH
		985+35 VR	LT	---	---	---	---	---	1	---	DESIGN
		985+35 VR	LT	---	---	---	---	---	---	1	SPEED
		975+11 VR - 985+35 VR	LT	---	---	---	1,020	---	---	---	
		SUBTOTALS		0	0	1,020	1,020	0	1	1	
	FREEPORT RD	11+38 BI - 15+48 BI	RT	---	---	410	---	---	---	---	30 MPH
		11+38 BI - 15+48 BI	RT	---	---	---	410	---	---	---	DESIGN
		18+00 FP - 18+64 FP	LT	---	---	65	---	---	---	---	SPEED
		14+77 FP - 17+07 FP	MED	---	---	460	---	---	---	---	
		14+93 FP - 21+20 FP	RT	---	---	625	---	---	---	---	
		13+70 FP - 14+65 FP	LT	---	---	165	---	---	---	---	
		14+77 FP	LT	---	---	---	---	---	---	1	
		17+07 FP	MED	---	---	---	---	---	---	1	
		14+93 FP	RT	---	---	---	---	---	---	1	
		SUBTOTALS		0	0	1,725	410	0	0	3	
	ITS	1211+02 - 1214+22	LT	320	320	---	---	320	---	---	60 MPH
		1214+22	LT	---	---	---	---	---	1	---	DESIGN
		1210+57 - 1213+77	RT	320	320	---	---	320	---	---	SPEED
		1210+57	RT	---	---	---	---	---	1	---	
		1211+34 - 1213+77	RT	---	3,400	---	---	---	---	---	
		1385+49 - 1388+69	LT	320	320	---	---	320	---	---	
		1388+69	LT	---	---	---	---	---	1	---	
		1385+00 - 1388+20	RT	320	320	---	---	320	---	---	
		1385+00	RT	---	---	---	---	---	1	---	
		1385+77 - 1388+20	RT	---	3,400	---	---	---	---	---	
		SUBTOTALS		1,280	8,080	0	0	1,280	4	0	
		TOTALS		7,200	14,050	6,775	5,679	4,510	11	8	

SLOPE PAVING CONCRETE

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	604.0400 SY
0010	SAND & TRASH COLLECTOR	1195+39 - 1197+05	LT	62

RIPRAP ITEMS

CATEGORY	PROJECT LOCATION	STATION	LOCATION	606.0100 RIPRAP LIGHT CY	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE FABRIC TYPE HR SY
0010	WEST BELTLINE WIDENING	1162+11	6 'RT	---	20	---	30
		1068+39	5 'RT	---	6	---	10
		SUBTOTALS		0	26	0	40
	SAND & TRASH COLLECTOR	1194+49	88 'LT	---	8	---	10
		1195+00	88 'LT	---	10	---	15
		1196+25	100 'LT	---	---	6	8
		SUBTOTALS		0	18	6	33
	BELTLINE STORM SEWER CROSSING	1123+19	158 'LT	---	11	---	15
		1123+24	143 'LT	---	12	---	15
		1125+72	160 'LT	---	---	25	40
		SUBTOTALS		0	23	25	70
	N-13-2	1169+27	113 'LT	---	11	---	15
		1174+60	84 'LT	---	6	---	9
		SUBTOTALS		0	17	0	24
	TODD DRIVE	8+22 TD - 10+27 TD	35 'RT	130	---	---	190
	STORM SEWER	11+46 TD	50 'RT	30	---	---	45
		SUBTOTALS		160	0	0	235
	VERONA RD	978+60 VR	204 'LT	---	12	---	20
		979+55 VR	352 'LT	---	14	---	20
		980+34 VR	207 'LT	---	---	22	35
		980+45 VR	264 'LT	---	13	---	20
		SUBTOTALS		0	39	22	95
		SUBTOTALS (0010)		160	123	53	497
0020	SEMINOLE & LACY	100+77 LR	40 'RT	---	22	---	35
		SUBTOTALS		0	22	0	35
	CTH M & FISH HATCHERY	97+28 MFH	37 'LT	---	8	---	10
		104+59 MFH	39 'RT	---	8	---	10
		SUBTOTALS		0	16	0	20
	FISH HATCHERY & WHALEN	99+62 FHW	46 'RT	---	5	---	8
		SUBTOTALS		0	5	0	8
		SUBTOTALS (0020)		0	43	0	63
			TOTALS	160	166	53	560

ADJUSTING SANITARY AND WATER FOR TEMPORARY STOCKPILE

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	*611.0420 RECONSTRUCTING MANHOLES EACH	SPV.0060.74 ADJUST WATER VALVE BOX EACH	REMARK
0010	VERONA RD	986+29 VR	162.4' RT	1	---	SANITARY
		986+46 VR	154.8' RT	1	---	SANITARY
		986+49 VR	159.2' RT	---	1	WATER
		1062+23	157.6' RT	---	1	WATER
			TOTALS	2	2	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STORM SEWER PIPE REINFORCED CONCRETE

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0348 48-INCH LF	608.0354 54-INCH LF	608.0360 60-INCH LF	608.0366 66-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	608.0448 48-INCH LF	608.0460 60-INCH LF	608.0472 72-INCH LF
0010	BP406	BP406.5	---	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	BP406.1	BP406.2	---	---	---	---	---	---	---	---	---	---	---	29	---	---	---	---	---	---	---	---	---
	BP406.2	BP406	---	---	---	---	---	---	---	---	---	---	---	---	118	---	---	---	---	---	---	---	---
	BP406.3	BP406.4	---	---	---	---	---	---	---	---	---	---	---	29	---	---	---	---	---	---	---	---	---
	BP406.4	BP406	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	EE23	EE366	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	EE24	EE366	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	EE25	EE370	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	EE26	EE370	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	EE27	EE370	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	EE366	VR585.4	---	---	---	---	---	---	---	114	---	---	---	---	---	---	---	---	---	---	---	---	---
	EE368	EE366	---	---	---	---	---	194	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	EE370	EE368	---	---	---	---	---	60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML213.1	ML214.5	---	---	59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML214	ML214.1	---	---	---	68	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML214.1	ML214.2	---	---	---	89	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML214.2	ML214.4	---	---	---	99	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML214.3	ML215.1	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML214.4	ML214.5	---	---	---	56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML214.5	ML214.6	---	---	---	---	52	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML215.1	ML214	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14	---	---	---	---	---	---
	ML215.3	ML215.1	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML215.9	ML214	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML300.1	ML300	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML300.3	ML215	---	---	---	---	---	---	---	---	---	---	---	25	---	---	---	---	---	---	---	---	---
	ML40	ML205.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---
	ML50	ML635	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	ML51	ML630	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	ML54	ML605	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	ML60	ML675	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	ML600.2	ML600.4	---	---	---	---	253	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML605	ML600.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	---	---	---	---	---
	ML605.1	ML605	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML61	ML685	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	ML610	ML605	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	318	---	---	---	---	---
	ML610.1	ML610.2	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML610.2	ML610	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML615	ML610	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	200	---	---	---	---	---
	ML620	ML615	---	---	---	---	193	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML625	ML620	---	---	---	125	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML630	ML625	---	---	---	203	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML630.2	ML630	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML635	ML630	---	---	---	223	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML636	ML635	---	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML665.1	SF727	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML675	ML673	---	---	---	---	---	---	---	---	---	---	---	---	---	---	68	---	---	---	---	---	---
	ML680	ML675	---	---	---	---	---	---	---	---	---	---	---	---	---	---	239	---	---	---	---	---	---
	ML680	ML680.2	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML680.1	ML680.4	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML680.3	ML680.1	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML680.4	ML680	---	---	---	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML685	ML680.4	152	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML687	ML685	122	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML700.1	SF700	---	---	---	---	---	---	---	---	---	---	---	---	---	23	---	---	---	---	---	---	---
	ML705.1	ML700.1	---	---	---	---	---	---	---	---	---	---	---	---	---	283	---	---	---	---	---	---	---
	SHEET TOTALS (0010)		347	8	87	932	504	260	0	114	0	0	0	119	118	306	327	548	0	0	0	0	0

CON'T ON NEXT PAGE

STORM SEWER PIPE REINFORCED CONCRETE (CON'T)

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0348 48-INCH LF	608.0354 54-INCH LF	608.0360 60-INCH LF	608.0366 66-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	608.0448 48-INCH LF	608.0460 60-INCH LF	608.0472 72-INCH LF
0010 (CON'T)	ML710.1	ML705.1	---	---	---	---	---	---	---	---	---	---	---	---	---	300	---	---	---	---	---	---	---
	ML715.1	S715.2	---	---	---	---	---	---	---	---	---	---	---	9	---	---	---	---	---	---	---	---	---
	ML715.7	ML715.1	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML800	ML800.1	---	---	---	---	---	---	---	---	---	---	---	10	---	---	---	---	---	---	---	---	---
	ML805	ML805.1	---	---	---	---	---	---	---	---	---	---	---	7	---	---	---	---	---	---	---	---	---
	ML810	ML805	---	---	---	---	---	---	---	---	---	---	---	49	---	---	---	---	---	---	---	---	---
	ML810.3	ML810.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML810.7	ML810.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14	---	---	---	---	---	---
	ML821	ML821.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	33	---	---	---
	ML821.1	ML821	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---
	S715.2	ML710.1	---	---	---	---	---	---	---	---	---	---	---	---	---	283	---	---	---	---	---	---	---
	S720.1	S715.2	---	---	---	---	---	---	---	---	---	---	---	---	154	---	---	---	---	---	---	---	---
	S725.1	S725.2	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	S725.2	S720.1	---	77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SF700	SF700.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---
	SF705	ML705.1	22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SF710	ML710.1	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SF710.2	SF710	---	---	---	---	---	---	---	---	---	---	---	33	---	---	---	---	---	---	---	---	---
	SF715.3	SF715.4	---	---	---	---	---	---	---	---	---	---	---	18	---	---	---	---	---	---	---	---	---
	SF715.4	SF715.5	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	SF715.5	SF715.2	45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SF720	S720.1	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	SF725	S725.2	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SF725.3	SF725	43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SF727	S725.2	---	185	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SF730	SF730.2	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SF730.1	SF730.2	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SF730.2	SF727	273	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR10	VR398	---	---	---	212	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR18	VR358.9	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR20	VR814	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	VR21	VR814	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---
	VR22	VR585.5	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR28	VR30	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR332	VR334	---	---	---	---	---	---	---	---	---	105	---	---	---	---	---	---	---	---	---	---	---
	VR332.1	VR332.5	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR332.2	VR332	---	---	---	---	---	---	---	---	---	272	---	---	---	---	---	---	---	---	---	---	---
	VR332.3	VR332.2	---	---	---	39	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR332.5	VR332.2	32	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR332.6	VR332	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR334	VR338	---	---	---	---	---	---	---	---	---	---	106	---	---	---	---	---	---	---	---	---	---
	VR334.1	VR334	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR334.2	VR334	---	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR338	VR340	---	---	---	---	---	---	---	---	---	---	73	---	---	---	---	---	---	---	---	---	---
	VR338.1	VR338	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR340	VR340.1	---	---	---	---	---	---	---	---	---	---	95	---	---	---	---	---	---	---	---	---	---
	VR340.2	VR340	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR340.3	VR340	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR342.3	VR342.2	54	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR344	VR346	---	---	---	---	---	---	---	---	---	97	---	---	---	---	---	---	---	---	---	---	---
	VR344.1	VR344	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	25	---
	VR346	VR346.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15	---
	VR346.2	VR346.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	11	---
	VR346.1	VR346.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	11
	SHEET TOTALS (0010)		634	293	6	257	6	0	6	0	0	474	274	144	160	583	20	0	39	113	11	40	11

CON'T ON NEXT PAGE

STORM SEWER PIPE REINFORCED CONCRETE (CON'T)

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0348 48-INCH LF	608.0354 54-INCH LF	608.0360 60-INCH LF	608.0366 66-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	608.0448 48-INCH LF	608.0460 60-INCH LF	608.0472 72-INCH LF
0010 (CON'T)	VR348	VR348.2	---	---	---	---	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR348.1	VR348	---	---	---	---	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR348.3	VR348.4	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR348.4	VR348.5	49	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR350.2	VR353	---	---	---	---	---	---	294	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR353.1	VR353	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	VR354	VR353	---	---	---	---	---	---	---	58	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR354.1	VR354	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR356.9	VR408.9	---	---	---	---	---	---	---	149	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR357.1	VR356.9	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	VR357.2	VR356.9	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---
	VR358	VR809	---	---	---	---	---	---	---	187	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR358.1	VR802	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	43	---	---	---	---
	VR358.2	VR358.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	---	---	---	---
	VR358.9	VR358	---	---	---	---	---	---	---	140	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR359.1	VR358	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	VR398	VR12	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR398.2	VR398.3	48	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR398.3	VR398	78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR398.4	VR398.3	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR407	VR408.9	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---
	VR5	VR580	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---
	VR580	VR580.4	---	---	---	---	---	---	---	---	---	---	---	---	94	---	---	---	---	---	---	---	---
	VR580.1	VR806	---	---	---	---	---	---	---	50	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR580.2	VR806	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR580.3	VR580.1	---	---	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR580.4	VR580.3	---	---	---	---	---	---	---	---	---	---	---	---	---	22	---	---	---	---	---	---	---
	VR580.5	VR580	---	---	---	---	---	---	---	---	---	---	---	15	---	---	---	---	---	---	---	---	---
	VR585.4	VR585.5	---	---	---	---	---	---	---	36	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR585.5	VR814	---	---	---	---	---	---	---	104	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR6	VR805	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---
	VR7	VR803	---	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---
	VR8	VR358.2	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	VR801	VR358.2	---	---	---	---	---	85	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR802	VR803	---	---	---	---	---	37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR803	VR804	---	---	---	---	---	53	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR804	VR804.2	---	---	---	---	---	72	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR804.2	VR805	---	---	---	---	---	52	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR805	VR580.1	---	---	---	---	---	---	---	240	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR806	VR808	---	---	---	---	---	---	---	78	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR808	VR332.2	---	---	---	---	---	---	---	130	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR809	VR356.9	---	---	---	---	---	---	---	85	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR813	VR358.9	---	---	---	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR814	VR358.9	---	---	---	---	---	---	---	235	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR90	VR350.2	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	VR91	VR350.2	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	WP103.1	WP103	---	---	---	---	---	---	---	---	---	---	---	20	---	---	---	---	---	---	---	---	---
	WP107.1	WP107	---	---	---	---	---	---	---	---	---	---	---	---	15	---	---	---	---	---	---	---	---
	WP107.2	WP107.1	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	WP202	WP200	31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	WP203	WP203.1	---	---	---	---	---	---	---	---	---	---	---	12	---	---	---	---	---	---	---	---	---
	WW640.1	WW640.2	---	---	---	---	---	---	---	---	---	---	---	7	---	---	---	---	---	---	---	---	---
	WW640.2	WW640.4	---	---	---	---	---	---	---	---	---	---	---	30	---	---	---	---	---	---	---	---	---
	WW640.3	WW640.4	---	---	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	WW640.4	WW640.5	---	---	27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SHEET TOTALS (0010)		227	0	49	6	60	305	294	1492	0	0	0	114	127	28	0	0	53	0	6	0	0

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STORM SEWER PIPE REINFORCED CONCRETE (CON'T)

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0324 24-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0348 48-INCH LF	608.0354 54-INCH LF	608.0360 60-INCH LF	608.0366 66-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	608.0415 15-INCH LF	608.0418 18-INCH LF	608.0424 24-INCH LF	608.0430 30-INCH LF	608.0436 36-INCH LF	608.0442 42-INCH LF	608.0448 48-INCH LF	608.0460 60-INCH LF	608.0472 72-INCH LF
0010 (CON'T)	WW640.5	ML636	---	---	134	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	WW645	WW640.3	---	---	129	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	WW645.1	WW645	---	---	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	WW650	WW645	---	---	118	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	WW650.1	WW650.2	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	WW650.2	WW650	---	---	---	---	---	---	---	---	---	---	---	14	---	---	---	---	---	---	---	---	---
	WW650.3	WW650.4	---	---	---	---	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---
	WW650.4	WW650	---	---	---	---	---	---	---	---	---	---	---	14	---	---	---	---	---	---	---	---	---
	ML95	EXISTING	---	---	---	---	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML100	ML100.1	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML100.1	ML100..2	---	---	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML100.2	ML100.3	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML105	ML105.1	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML105.1	ML105.2	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML105.2	ML105.3	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML110.2	ML110.3	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML110.1	ML110	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML115	ML115.2	67	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML115.1	ML115.2	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	ML115.2	ML115.3	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	SHEET TOTALS (0010)		89	0	403	52	8	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0
	TOTALS (0010)		1,297	301	545	1,247	578	565	300	1,606	0	474	274	417	405	917	347	548	92	113	17	40	11
0020	10.1	EXISTING	---	---	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30.1	30.3	---	---	---	---	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30.2	30.3	---	---	---	77	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30.3	30.4	---	---	---	---	86	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30.5	30.6	---	---	56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	30.6	30.7	48	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	EXISTING	30.6	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40.1	40.2	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40.2	40.2A	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40.3	40.4	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40.4	40.5	---	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40.4A	40.4	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50.1	EXISTING	94	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50.2	50.1	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	50.4	50.3	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	60.1	60.2	---	---	50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	TOTALS (0020)		179	9	109	77	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0050	WP100	WP103	---	---	---	---	---	---	---	232	---	---	---	---	---	---	---	---	---	---	---	---	---
	WP100.1	WP100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	15	---	---	---	---	---	---
	WP100.2	WP100	---	---	---	---	---	---	---	6	---	---	---	---	---	---	---	---	---	---	---	---	---
	WP100.3	WP100	---	---	---	---	---	---	---	---	---	---	---	14	---	---	---	---	---	---	---	---	---
	WP103	WP105	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	216	---	---
	WP105	WP107	---	---	---	---	---	---	---	---	35	---	---	---	---	---	---	---	---	---	---	---	---
	WP105.1	WP105	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	WP107	WP110	---	---	---	---	---	---	---	---	124	---	---	---	---	---	---	---	---	---	---	---	---
	WP110	WP115	---	---	---	---	---	---	---	---	51	---	---	---	---	---	---	---	---	---	---	---	---
	WP110.1	WP110	---	---	---	---	---	---	---	---	---	---	---	---	---	16	---	---	---	---	---	---	---
	WP115	WP120	---	---	---	---	---	---	---	---	---	18	---	---	---	---	---	---	---	---	---	---	---
	WP115.1	WP115	---	---	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	WP200	WP201	---	---	---	---	---	---	---	---	---	---	---	---	39	---	---	---	---	---	---	---	---
	TOTALS (0050)		11	0	0	13	0	0	0	238	210	18	0	14	39	16	15	0	0	0	216	0	0
	TOTALS		1,487	310	654	1,337	683	565	300	1,844	210	492	274	431	444	933	362	548	92	113	233	40	11

STORM SEWER PIPE REINFORCED CONCRERTE HORIZONTAL ELLIPTICAL

CATEGORY	FROM STRUCTURE	TO STRUCTURE	610.0114 14X23 INCH LF	610.0124 24X38 INCH LF	610.0129 29X45 INCH LF	610.0138 38X60 INCH LF	610.0424 24X38 INCH LF	610.0429 29X45 INCH LF	610.0434 34X53 INCH LF
			CLASS HE-III				CLASS HE-IV		
0010	ML200	ML202	---	161	---	---	---	---	---
	ML202	ML203	---	---	---	---	128	---	---
	ML204	ML204.1	---	---	---	---	10	---	---
	ML204.1	ML204.5	---	---	---	---	12	---	---
	ML204.2	ML204.3	---	130	---	---	---	---	---
	ML204.3	ML204.4	---	77	---	---	---	---	---
	ML204.5	ML204.2	---	131	---	---	---	---	---
	ML205	ML205.6	---	18	---	---	---	---	---
	ML205.6	ML200	---	72	---	---	---	---	---
	ML205.7	ML205	---	---	---	26	---	---	---
	ML300	ML300.4	---	---	---	---	---	9	---
	ML300.2	ML300	---	---	6	---	---	---	---
	ML300.4	ML215	---	---	---	---	---	13	---
	VR804.1	VR804	---	---	---	---	---	---	9
	VR808.1	VR808	---	---	---	---	13	---	---
	SUBTOTALS (0010)		0	589	6	26	163	22	9
0020	20.1	20.2	59	---	---	---	---	---	---
	20.2	20.3	67	---	---	---	---	---	---
	20.3	20.4	124	---	---	---	---	---	---
	21.1	21.2	46	---	---	---	---	---	---
	21.2	21	73	---	---	---	---	---	---
	SUBTOTALS (0020)		369	0	0	0	0	0	0
		TOTALS	369	589	6	26	163	22	9

TRENCHLESS STORM SEWER CONSTRUCTION 48-INCH

CATEGORY	FROM STRUCTURE	TO STRUCTURE	SPV.0090.06 LF
0010	VR353	VR332.2	196
	VR408.9	VR354	138
		TOTALS	334

PRECAST CONCRETE BOX CULVERT 3 FT X 6 FT

CATEGORY	FROM STRUCTURE	TO STRUCTURE	504.2000.S LF
0010	ML205	ML205.1	84
	ML215	ML205	161
		TOTALS	245

CULVERT PIPE SUMMARY

CATEGORY	FROM STRUCTURE	TO STRUCTURE	*521.0112 12-INCH LF	*521.0115 15-INCH LF	521.0118 18-INCH LF	*521.0124 24-INCH LF	521.0142 42-INCH LF	THICKNESS (INCHES) STEEL	520.4042 CULVERT PIPE TEMPORARY 42-INCH LF
			CULVERT PIPE CORRUGATED STEEL						
0010	FP100	FP100.1	19	---	---	---	---	0.064	---
	FP100.1	FP101.1	---	168	---	---	---	0.064	---
	FP101.1	FP101	---	9	---	---	---	0.064	---
	ML205.8	ML205.7	---	---	---	---	6	0.109	---
	ML205.9	ML205.7	6	---	---	---	---	0.064	---
	ML213.2	ML213.1	---	---	6	---	---	0.064	---
	ML52	ML625	6	---	---	---	---	0.064	---
	ML53	ML610	---	---	---	6	---	0.064	---
	VR1000.6	VR1000.5	184	---	---	---	---	0.064	---
	VR200	VR201	70	---	---	---	---	0.064	---
	VR200.1	VR200	107	---	---	---	---	0.064	---
	VR201	VR1000.6	136	---	---	---	---	0.064	---
	VR206	VR205	225	---	---	---	---	0.064	---
	VR29	VR28	---	---	---	6	---	0.064	---
	VR31	VR28	83	---	---	---	---	0.064	---
	VR332.7	VR332.2	---	52	---	---	---	0.064	---
	VR359.2	VR358	---	---	---	6	---	0.064	---
	VR4	VR40	---	---	---	14	---	0.064	---
	VR40	VR808	---	---	---	9	---	0.064	---
	VR801.1	VR801	6	---	---	---	---	0.064	---
	VR801.2	VR801	14	---	---	---	---	0.064	---
	VR802.1	VR802	---	6	---	---	---	0.064	---
	VR805.1	VR805	---	---	12	---	---	0.064	---
	VR809.1	VR809	5	---	---	---	---	0.064	---
	WW645.2	WW645.1	---	---	6	---	---	0.064	---
	ML205.7	ML206	---	---	---	---	---	---	120
		TOTALS	861	235	24	41	6	---	120

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STORM SEWER CAST IN PLACE STRUCTURES

CATEGORY	STRUCT. NO.	STATION	OFFSET	SPV.0060.13 MANHOLE VR346.1 EACH	SPV.0060.11 MANHOLE ML205 EACH	SPV.0060.12 MANHOLE ML215 EACH	SPV.0060.16 WEIR WALL ML204.1 EACH	SPV.0060.17 WEIR WALL VR344.1 EACH	*611.053 MANHOLE COVERS TYPE J EACH	611.0600 INLET COVERS TYPE A EACH	*611.0545 MANHOLE COVERS TYPE L EACH	*650.4 CONSTRUCTION STAKING STORM SEWER EACH
0010	ML204.1	1122+79.39	289.7' LT	---	---	---	1	---	---	---	---	---
	ML205	1126+31.70	81.4' LT	---	1	---	---	---	1	---	---	1
	ML215	1126+45.53	79.2' RT	---	---	1	---	---	---	---	1	1
	VR344.1	978+17.69 VR	208.3' LT	---	---	---	---	1	---	---	---	---
	VR346.1	977+18.49 VR	108.4' LT	1	---	---	---	---	---	1	---	1
		TOTALS		1	1	1	1	1	1	1	1	3

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

MANHOLES AND INLETS SUMMARY

CATEGORY	STRUCT. NO.	STATION	OFFSET	611.2003 MANHOLES 3-FT DIA EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.14 MANHOLES 9-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	*611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	SPV.0060.15 SLOTTED VANE DRAIN TYPE A 6 FT EACH	*611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE J-S EACH	*611.0545 MANHOLE COVERS TYPE L EACH	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	*520.8000 CONCRETE COLLARS FOR PIPE EACH	SPV.0060.86 COVER PLATES EACH	*650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0010	BP406	18+25.00 BP	20.5' RT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	BP406.1	19+50.00 BP	14.5' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	BP406.2	19+50.00 BP	14.5' RT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	BP406.3	18+25.00 BP	14.5' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	BP406.4	18+25.00 BP	14.5' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	BP406.5	18+16.73 BP	21.1' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	EE366	117+75.18 EE	0.0' RT	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	EE368	119+67.94 EE	16.5' LT	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	EE370	120+27.90 EE	16.5' LT	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	FP100	18+00.00 FP	21.6' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	FP100.1	18+20.00 FP	21.4' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	FP101.1	19+74.00 FP	41.0' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	1	---	1
	ML200	1125+41.26	87.6' LT	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML202	1124+49.49	220.7' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1
	ML204.1	1122+79.39	289.7' LT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	2	---	---	1
	ML204.2	1123+68.71	190.6' LT	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML204.3	1124+88.45	246.2' LT	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML204.5	1122+89.95	295.5' LT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML205.6	1126+13.27	82.8' LT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML205.7	1126+58.28	81.9' LT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML205.8	1126+64.33	81.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML205.9	1126+62.45	77.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML213.1	1123+54.54	78.1' LT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML213.2	1123+54.61	72.1' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML214	1125+52.47	70.0' RT	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML214.1	1125+52.21	2.4' RT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	ML214.2	1125+10.00	76.0' LT	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML214.3	1125+70.07	88.1' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML214.4	1124+40.78	147.7' LT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML214.5	1123+88.17	126.6' LT	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML215.1	1125+60.47	81.0' RT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1
	ML215.3	1125+49.80	86.3' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML215.9	1125+40.58	70.8' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML300	1126+51.46	101.1' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1
	ML300.1	1126+53.50	106.8' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML300.3	1126+69.78	84.3' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML300.4	1126+48.60	92.2' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	2	---	1	---	1
	ML52	1164+69.70	83.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML53	1169+93.74	66.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML600.2	1173+41.21	78.6' LT	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML605	1173+11.92	71.1' LT	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML610	1169+93.92	72.0' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	ML610.1	1170+02.32	86.9' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML610.2	1169+98.92	82.0' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	ML615	1167+93.92	72.0' LT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	ML620	1166+00.00	79.2' LT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1
	ML625	1164+70.49	89.7' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	1
	ML630	1162+59.72	113.5' LT	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML630.2	1162+59.42	119.5' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML635	1160+25.44	119.2' LT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML636	1160+23.71	129.2' LT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML665.1	1176+50.00	76.0' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	ML675	1172+06.14	68.0' RT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML680	1169+67.09	68.0' RT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	ML680.1	1169+58.04	79.9' RT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	ML680.2	1169+67.70	62.0' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML680.3	1169+53.18	83.5' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML680.4	1169+58.05	68.0' RT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	ML685	1168+06.14	68.0' RT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML700.1	1189+36.14	80.0' RT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1
	ML705.1	1186+52.90	80.0' RT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1
	ML710.1	1183+52.90	83.2' RT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1
	ML715.1	1180+68.82	68.7' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1
	ML715.7	1180+60.80	68.7' RT	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1
	ML800	1194+49.00	66.6' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1
SHEET TOTALS (0010)				0	12	10	6	4	3	1	2	6	3	3	0	19	0	1	3	9	6	2	0	0	9	4	17	0	50

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

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MANHOLES AND INLETS SUMMARY (CON'T)

CATEGORY	STRUCT. NO.	STATION	OFFSET	611.2003 MANHOLES 3-FT DIA EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.14 MANHOLES 9-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	*611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	SPV.0060.15 SLOTTED VANE DRAIN TYPE A 6 FT EACH	*611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE J-S EACH	*611.0545 MANHOLE COVERS TYPE L EACH	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	*520.8000 CONCRETE COLLARS FOR PIPE EACH	SPV.0060.86 COVER PLATES EACH	*650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0010 (CON'T)	ML805	1195+00.00	69.5' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	ML810	1195+55.00	72.6' LT	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	ML810.4	1196+20.06	88.7' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML810.7	1196+22.66	71.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML810.8	1196+22.86	79.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML821	1211+27.54	126.5' RT	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	ML821.1	1211+21.58	125.9' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	S715.2	1180+69.33 S	1.5' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1
	S720.1	1179+15.06 S	7.9' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1
	S725.1	1178+35.00 S	31.3' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	S725.2	1178+35.00 S	13.3' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1
	SF700	89+30.68 SF	16.5' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	SF700.2	89+29.79 SF	11.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	SF705	86+50.00 SF	16.5' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	SF710	83+50.00 SF	16.5' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	SF710.2	83+50.00 SF	16.5' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	SF715.3	80+70.00 SF	16.5' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	SF715.4	80+70.00 SF	1.5' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1
	SF715.5	80+70.07 SF	7.2' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1
	SF720	79+16.79 SF	30.5' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1
	SF725	78+35.00 SF	26.6' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1
	SF725.3	78+35.02 SF	16.3' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	SF727	76+50.00 SF	10.2' LT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	SF730	73+58.66 SF	16.5' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	SF730.1	73+78.25 SF	26.5' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	SF730.2	73+78.36 SF	15.0' LT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR1000.6	971+79.32 VR	130.0' RT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR19	994+11.3 VR	89.9' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1
	VR200	973+85.00 VR	126.2' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	VR200.1	974+91.35 VR	124.3' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	VR201	973+15.00 VR	122.0' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	VR206	972+85.85 VR	3.4' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	VR28	986+28.46 VR	7.2' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	VR29	986+28.69 VR	1.2' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	VR30	986+28.24 VR	13.2' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	VR332	983+74.32 VR	106.3' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR332.1	986+15.91 VR	134.4' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1
	VR332.2	986+46.16 VR	102.1' LT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR332.3	986+25.99 VR	69.1' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1
	VR332.5	986+18.12 VR	117.8' LT	1	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR332.7	986+97.00 VR	93.0' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	VR334	982+69.63 VR	109.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR334.2	982+84.69 VR	89.0' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	VR338	981+63.76 VR	106.8' LT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR340	980+91.26 VR	108.7' LT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR340.2	980+90.18 VR	126.1' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	VR340.3	980+91.07 VR	93.4' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	VR344	977+98.96 VR	181.5' LT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR346	977+35.84 VR	109.1' LT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR346.2	977+21.19 VR	118.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	VR346.5	977+22.00 VR	96.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	VR347	977+29.38 VR	155.6' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	VR348	979+65.16 VR	399.1' LT	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR348.1	979+70.92 VR	404.3' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	VR348.3	980+79.02 VR	112.8' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	VR348.4	980+83.00 VR	303.3' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	VR350.2	983+64.31 VR	104.7' RT	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR353	986+58.05 VR	93.4' RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR354	987+15.80 VR	93.0' RT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR356.9	989+98.07 VR	76.4' RT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR358	992+65.58 VR	90.0' RT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR358.1	994+05.11 VR	80.1' LT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR358.2	994+15.32 VR	80.0' LT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR358.9	994+03.82 VR	98.8' RT	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR359.2	992+65.44 VR	96.0' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
SHEET TOTALS (0010)				1	8	4	0	2	5	6	2	18	3	0	0	14	0	0	0	7	16	6	1	0	3	2	14	2	52

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MANHOLES AND INLETS SUMMARY (CON'T)

CATEGORY	STRUCT. NO.	STATION	OFFSET	611.2003 MANHOLES 3-FT DIA EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.14 MANHOLES 9-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	*611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	SPV.0060.15 SLOTTED VANE DRAIN TYPE A 6 FT EACH	*611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE J-S EACH	*611.0545 MANHOLE COVERS TYPE L EACH	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	*520.8000 CONCRETE COLLARS FOR PIPE EACH	SPV.0060.86 COVER PLATES EACH	*650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0010 (CON'T)	VR398	973+88.04 VR	112.4' RT	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR398.2	973+63.23 VR	203.7' RT	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR398.3	974+08.58 VR	187.9' RT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR398.4	974+14.66 VR	189.4' RT	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR40	987+78.43 VR	97.7' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	VR408.9	988+51.49 VR	84.9' RT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR580	989+97.27 VR	70.8' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR580.1	989+06.82 VR	108.1' LT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR580.2	988+60.04 VR	119.7' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	VR580.3	989+05.88 VR	93.4' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	VR580.4	989+02.70 VR	71.3' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR580.5	990+12.81 VR	71.2' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR585.4	997+50.29 VR	133.9' RT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR585.5	997+52.80 VR	98.1' RT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR801	994+96.71 VR	80.9' LT	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR801.1	994+97.15 VR	75.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	VR801.2	995+09.78 VR	78.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	VR802	993+61.65 VR	79.9' LT	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR802.1	993+61.95 VR	85.9' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	VR803	993+24.34 VR	79.4' LT	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR804	992+70.44 VR	78.0' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR804.1	992+70.16 VR	68.7' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	VR804.2	992+00.82 VR	98.6' LT	---	---	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR805	991+49.51 VR	88.6' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR805.1	991+40.99 VR	80.5' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	VR806	988+56.39 VR	111.0' LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
	VR808	987+77.44 VR	106.8' LT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR808.1	987+76.08 VR	119.5' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	VR809	990+81.68 VR	68.9' RT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR809.1	990+80.54 VR	73.6' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	VR813	994+05.24 VR	89.2' RT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	VR814	996+50.13 VR	96.9' RT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	WP103.1	67+00.00 WP	23.8' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1
	WP107.1	69+51.02 WP	27.9' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1
	WP107.2	69+57.02 WP	28.0' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1
	WP202	75+80.00 WP	49.4' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1
	WP203	73+60.00 WP	49.5' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1
	WW640.1	53+25.03 WW	14.8' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	WW640.2	53+32.25 WW	15.0' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	WW640.3	53+25.01 WW	14.8' RT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	WW640.4	53+32.23 WW	14.9' RT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	WW640.5	53+50.00 WW	34.2' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	WW645	52+02.99 WW	17.2' RT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	WW645.1	52+05.84 WW	32.8' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	WW645.2	52+01.38 WW	34.6' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	WW650	50+91.00 WW	0.0' RT	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	WW650.1	50+85.00 WW	14.5' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	WW650.2	50+91.00 WW	14.5' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	WW650.3	50+85.00 WW	14.5' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	WW650.4	50+91.00 WW	14.5' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	ML95	1025+89.32	0.7' RT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	2	---	1	---	1
	ML100	1042+45.91	9.3' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML100.1	1042+45.80	3.3' RT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	2	---	1	---	1
	ML100.2	1042+45.83	7.1' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	ML100.3	1042+45.94	13.1' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML105	1051+17.70	10.6' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML105.1	1051+17.56	4.6' RT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	1
	ML105.2	1051+17.37	7.0' LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	ML105.3	1051+17.34	13.0' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML110.2	1062+16.00	7.5' LT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	ML110	1062+25.19	17.5' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	ML115.1	1069+30.00	4.5' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	ML115.2	1069+18.02	4.6' LT	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1
	ML115.3	1069+17.86	14.2' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	---	986+32.7 VR	81.0' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	---	990+72.7 VR	97.9' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
SHEET TOTALS (0010)				0	10	1	4	7	0	4	2	14	2	3	1	16	0	0	0	8	0	5	0	9	8	5	18	2	48
TOTALS (0010)				1	30	15	10	13	8	11	6	38	8	6	1	49	0	1	3	24	22	13	1	9	20	11	49	4	150

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CON'T ON NEXT PAGE

3

MANHOLES AND INLETS SUMMARY (CON'T)

CATEGORY	STRUCT. NO.	STATION	OFFSET	611.2003 MANHOLES 3-FT DIA EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2005 MANHOLES 5-FT DIA EACH	611.2006 MANHOLES 6-FT DIA EACH	611.2007 MANHOLES 7-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.14 MANHOLES 9-FT DIA EACH	611.3003 INLETS 3-FT DIA EACH	*611.3230 INLETS 2X3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.3902 INLETS MEDIAN 2 GRATE EACH	SPV.0060.15 SLOTTED VANE DRAIN TYPE A 6 FT EACH	*611.0530 MANHOLE COVERS TYPE J EACH	611.0535 MANHOLE COVERS TYPE J-S EACH	*611.0545 MANHOLE COVERS TYPE L EACH	611.0606 INLET COVERS TYPE B EACH	611.0612 INLET COVERS TYPE C EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	*520.8000 CONCRETE COLLARS FOR PIPE EACH	SPV.0060.86 COVER PLATES EACH	*650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0020	10.1	102+81.55 PB	2.7' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
	20.2	99+31.53 MFH	42.3' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	20.3	98+65.00 MFH	34.5' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	21	104+59.26 MFH	20.4' LT	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	21.2	103+88.00 MFH	37.1' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	30.2	99+27.41 WFH	33.0' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	30.3	99+48.20 FHW	47.8' LT	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	1
	30.6	108+39.47 FHW	29.3' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	EXISTING	108+39.02 FHW	22.3' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40.1	99+40.76 SP	20.6' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	40.2	99+45.57 SP	22.0' LT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1
	40.2A	99+45.66 SP	19.5' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	40.3	99+42.14 SP	21.5' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	40.4	99+47.21 SP	21.7' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1
	40.4A	99+47.12 SP	19.5' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	40.5	99+55.80 SP	20.1' RT	---	1	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	1
	50.1	100+04.45 W	29.0' RT	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	50.2	100+04.86 W	24.3' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1
	50.3	98+54.46 W	30.3' RT	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	1	---	1
	50.4	98+44.93 W	27.5' RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1
TOTALS (0020)				2	1	0	2	0	0	0	0	7	5	0	0	1	4	0	0	0	2	0	0	5	5	0	6	0	16
0050	WP100	64+67.23 WP	11.0' RT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	WP100.1	64+68.44 WP	31.0' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---	1
	WP100.2	64+60.92 WP	11.2' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	WP100.3	64+66.74 WP	1.4' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1
	WP103	67+00.00 WP	3.5' RT	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	WP105	69+15.70 WP	13.0' RT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	WP105.1	69+14.89 WP	24.0' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	WP107	69+50.95 WP	12.8' RT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	WP110	70+75.25 WP	12.3' RT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	WP110.1	70+75.01 WP	4.0' LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	WP115	71+24.76 WP	11.8' RT	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	WP115.1	71+23.21 WP	0.9' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	WP120	71+41.86 WP	11.9' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	WP200	76+14.10 WP	25.1' RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1
	WP201	76+47.81 WP	2.5' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
TOTALS (0050)				0	0	0	0	2	4	0	0	0	3	1	0	6	0	0	0	0	0	0	0	0	5	0	5	0	10
TOTALS				6	31	15	12	15	12	11	6	42	16	7	1	56	4	1	3	24	24	13	1	14	30	11	60	4	176

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

APRON ENDWALLS SUMMARY

CATEGORY	STRUCT. NO.	STATION	OFFSET	520.1012 APRON ENDWALLS FOR CULVERT PIPE 12-INCH EACH	522.1012 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	522.1018 18-INCH EACH	*522.1024 24-INCH EACH	522.1030 30-INCH EACH	522.1036 36-INCH EACH	522.1060 60-INCH EACH	522.1066 66-INCH EACH	*523.0514 HORIZONTAL ELLIPTICAL 14X23-INCH EACH	523.0524 HORIZONTAL ELLIPTICAL 24X38-INCH EACH	SPV.0060.18 APRON ENDWALLS FOR STORM SEWER PIPE REINFORCED CONCRETE CONCRETE BOX 3X6-FT EACH	SPV.0060.84 CONCRETE CUTOFF WALL EACH	*611.9800.S PIPE GRATES EACH	*633.5200 MARKERS CULVERT END EACH	*650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0010	ML203	1123+26.22	163.6' LT	---	---	---	---	---	---	---	---	---	1	---	1	1	---	1
	ML204	1122+65.32	282.1' LT	---	---	---	---	---	---	---	---	---	1	---	---	1	---	1
	ML204.4	1124+90.87	328.8' LT	---	---	---	---	---	---	---	---	---	1	---	1	1	1	1
	ML205.1	1125+76.88	153.8' LT	---	---	---	---	---	---	---	---	---	---	1	1	1	1	1
	ML214.6	1123+32.03	142.0' LT	---	---	---	---	1	---	---	---	---	---	---	1	1	---	1
	ML800.1	1194+49.00	82.7' LT	---	1	---	---	---	---	---	---	---	---	---	1	1	---	1
	ML805.1	1195+00.02	82.6' LT	---	1	---	---	---	---	---	---	---	---	---	1	1	---	1
	ML821.2	1211+52.64	158.5' RT	---	---	---	---	---	1	---	---	---	---	---	1	1	1	1
	VR1000.5	970+39.50 VR	249.7' RT	1	---	---	---	---	---	---	---	---	---	---	---	1	1	1
	VR205	971+15+15.6 VR	151.2' RT	1	---	---	---	---	---	---	---	---	---	---	---	1	1	1
	VR340.1	980+38.50 VR	197.4' LT	---	---	---	---	---	---	---	1	---	---	---	1	1	---	1
	VR342.2	978+59.38 VR	195.8' LT	---	1	---	---	---	---	---	---	---	---	---	1	1	---	1
	VR344.1	978+17.69 VR	208.3' LT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	1
	VR348.2	979+56.79 VR	363.6' LT	---	---	---	---	1	---	---	---	---	---	---	1	1	---	1
	VR348.5	980+45.00 VR	263.6' LT	---	1	---	---	---	---	---	---	---	---	---	1	1	---	1
	ML110.1	1062+21.40	7.0' RT	---	---	---	1	---	---	---	---	---	---	---	---	1	1	1
	ML110.3	1062+20.58	4.9' RT	---	---	1	---	---	---	---	---	---	---	---	---	1	1	1
	ML115	1068+45.54	7.2' RT	---	1	---	---	---	---	---	---	---	---	---	---	1	1	1
	WP203.1	73+60.00 WP	32.0' RT	---	1	---	---	---	---	---	---	---	---	---	---	1	1	1
	SUBTOTALS (0010)			2	6	1	1	2	1	1	1	0	3	1	11	19	9	19
0020	20.1	101+00.00 FHM	39.8' LT	---	---	---	---	---	---	---	---	1	---	---	---	1	1	1
	20.4	97+35.00 MFH	37.5' LT	---	---	---	---	---	---	---	---	1	---	---	---	1	1	1
	21.1	103+36.00 MFH	40.6' LT	---	---	---	---	---	---	---	---	1	---	---	---	1	1	1
	21.3	104+59.44 MFH	33.1' LT	---	---	---	1	---	---	---	---	---	---	---	---	1	1	1
	30.1	99+44.53 FHW	72.3' LT	---	---	---	---	1	---	---	---	---	---	---	---	1	1	1
	30.4	99+61.42 FHW	43.2' RT	---	---	---	---	1	---	---	---	---	---	---	---	1	1	1
	30.5	108+97.58 FHW	32.7' LT	---	---	1	---	---	---	---	---	---	---	---	---	1	1	1
	30.7	108+26.25 FHW	81.4' LT	---	---	1	---	---	---	---	---	---	---	---	---	1	1	1
	60.1	12+29.24 MPR	30.2' RT	---	---	1	---	---	---	---	---	---	---	---	---	1	1	1
	60.2	11+69.24 MPR	30.7' RT	---	---	1	---	---	---	---	---	---	---	---	---	1	1	1
	SUBTOTALS (0020)			0	0	4	1	2	0	0	0	3	0	0	0	10	10	10
	TOTALS			2	6	5	2	4	1	1	1	3	3	1	11	29	19	29

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STORM SEWER TAP

CATEGORY	STRUCT. NO.	STATION	OFFSET	SPV.0060.10 STORM SEWER TAP EACH	*520.8000 CONCRETE COLLARS FOR PIPE EACH
0010	ML605.1	1173+12.14	77.1' LT	1	1
	ML810.3	1195+11.40	81.1' LT	1	1
	VR31	987+11.06 VR	8.7' LT	1	1
	VR332.3	986+25.99 VR	69.1' LT	1	1
	VR4	987+90.71 VR	91.7' LT	1	1
	EXISTING	987+91.2 VR	91.9' LT	1	1
	SUBTOTALS (0010)			6	6
0020	EXISTING	99+15.68 W	31.5' RT	1	1
	SUBTOTALS (0020)			1	1
	TOTALS			7	7

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

ADJUSTING INLETS AND MANHOLES

CATEGORY	STATION	OFFSET	611.8115 ADJUSTING INLET COVERS EACH	611.8110 ADJUSTING MANHOLE COVERS EACH
0010	980+81.2 VR	6.8' LT	1	---
	987+11.1 VR	8.7' LT	1	---
	987+11.7 VR	0.6' RT	1	---
	990+89.9 VR	5.0' LT	1	---
	991+23.1 VR	63.0' LT	1	---
	994+97.9 VR	58.5' LT	1	---
	995+37.1 VR	2.2' LT	1	---
	1170+92.0	111.1' RT	1	---
	1170+90.8	120.7' RT	---	1
		TOTALS	8	1

RECONSTRUCTING MANHOLES

CATEGORY	STATION	OFFSET	*611.0420 EACH
0010	976+92.5 VR	164.2' LT	1
	1195+11.4	81.1' LT	1
		TOTAL	2

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

COVERING AND LOCATING STORM SEWER

CATEGORY	STRUCT. NO.	STATION	OFFSET	SPV.0060.20 COVERING STORM SEWER EACH	SPV.0060.21 LOCATING STORM SEWER EACH
0010	EE23	117+75.22 EE	6.0' LT	1	1
	EE24	117+75.16 EE	6.0' RT	1	1
	EE25	120+29.97 EE	22.1' LT	1	1
	EE26	120+27.87 EE	10.5' LT	1	1
	EE27	120+33.87 EE	16.0' LT	1	1
	ML300.2	1126+57.39	101.5' RT	1	1
	ML40	1126+13.27	76.8' LT	1	1
	ML50	1160+22.95	113.7' LT	1	1
	ML51	1162+57.00	108.1' LT	1	1
	ML54	1173+11.92	65.1' LT	1	1
	ML60	1172+06.14	62.0' RT	1	1
	ML600.4	1175+94.36	73.1' LT	1	1
	ML61	1168+06.14	62.0' RT	1	1
	ML673	1172+73.80	68.0' RT	1	1
	ML687	1166+84.44	66.6' RT	1	1
	VR10	971+76.19 VR	111.1' RT	1	1
	VR12	973+93.96 VR	111.5' RT	1	1
	VR18	994+02.28 VR	104.5' RT	1	1
	VR19	994+04.70 VR	92.8' RT	1	1
	VR20	996+50.09 VR	102.9' RT	1	1
	VR21	996+50.10 VR	90.9' RT	1	1
	VR22	997+58.67 VR	98.8' RT	1	1
	VR332.3	986+25.99 VR	69.1' LT	---	1
	VR332.6	983+75.02 VR	112.3' LT	1	1
	VR334.1	982+69.20 VR	103.6' LT	1	1
	VR338.1	981+65.11 VR	101.0' LT	1	1
	VR342.3	978+54.79 VR	135.7' LT	1	1
	VR353.1	986+57.32 VR	99.4' RT	1	1
	VR354.1	987+16.63 VR	98.9' RT	1	1
	VR357.1	989+97.82 VR	82.4' RT	1	1
	VR357.2	989+98.32 VR	70.4' RT	1	1
	VR359.1	992+70.29 VR	93.6' RT	1	1
	VR407	988+53.00 VR	90.7' RT	1	1
	VR5	989+97.43 VR	64.8' LT	1	1
	VR6	991+49.61 VR	94.6' LT	1	1
	VR7	993+24.17 VR	85.4' LT	1	1
	VR8	994+15.32 VR	74.0' LT	1	1
	VR90	983+58.32 VR	104.8' RT	1	1
	VR91	983+66.12 VR	110.4' RT	1	1
	VR347	977+29.38 VR	155.6' LT	---	1
	---	986+32.70 VR	81.0' RT	---	1
	---	990+72.70 VR	97.9' RT	---	1
		TOTALS		38	42

PIPE UNDERDRAIN ITEMS

CATEGORY	STATION	-	STATION	LOCATION	*612.0106 PIPE UNDERDRAIN 6-INCH LF	*612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	*209.0300.S BACKFILL COARSE AGGREGATE SIZE NO. 1 CY	*645.0112 GEOTEXTILE FABRIC TYPE DF SCHEDULE B SY
0010	1026+11	-	1036+21	LT	1,145	4	34	640
	1036+15	-	1051+17	LT	1,506	---	45	840
	1063+88	-	1067+01	LT	312	---	9	170
	1066+07	-	1077+39	LT/RT	1,122	---	33	620
	1169+00	-	1174+11	LT	513	1	15	290
	1177+21	-	1180+61	RT	340	---	10	190
	1182+16	-	1193+93	RT	1,187	1	35	660
	1192+59	-	1197+34	LT	479	---	14	270
	980+74 VR	-	980+90 VR	LT	18	---	1	10
	50+91 WW	-	53+25 WW	RT	256	---	8	140
	50+91 WW	-	53+25 WW	LT	212	---	6	120
	67+01 L	-	76+15 L	LT	896	---	27	500
	1177+49 S	-	1180+69 S	LT	317	---	9	180
	73+59 SF	-	83+50 SF	RT	990	---	29	550
				TOTALS	9,293	6	277	5,180

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CLAY ANTI-SEEPAGE COLLAR

CATEGORY	STATION	OFFSET	SPV.0060.19 EACH
0010	977+86.7 VR	165.8' LT	1
	978+54.8 VR	135.7' LT	1
	981+21.8 VR	107.9' LT	1
		TOTAL	3

GUARDRAIL SUMMARY

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0340 STEEL PLATE BEAM GUARD OVER LOW-FILL CULVERTS CLASS A LF	614.2300 MGS GUARDRAIL 3 LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2620 MGS GUARDRAIL TERMINAL TYPE 2 EACH	614.2500 MGS THRIE BEAM TRANSITION LF	614.0395 GUARDRAIL MOW STRIP CONCRETE SY	614.0396 GUARDRAIL MOW STRIP ASPHALT SY
0010	WEST BELTLINE WIDENING	994+77 - 1034+76	LT MED	---	---	3,950	1	1	---	---	1,560
		1004+75 - 1007+43	RT MED	---	---	215	1	1	---	---	110
		1006+84 - 1008+76	LT	---	---	140	1	1	---	---	80
		1017+24 - 1019+80	RT MED	---	---	200	1	1	---	---	105
		1017+74 - 1019+82	RT	---	---	135	1	1	---	---	80
		1026+10 - 1035+03	LT	---	---	850	1	1	---	---	355
		1027+44 - 1034+75	RT MED	---	---	675	1	1	---	---	290
		1035+25 - 1036+15	LT MED	---	---	---	1	---	39	---	42
		1035+25 - 1070+20	RT MED	---	---	3,440	1	1	---	---	1,360
		1054+21 - 1056+14	LT	---	---	140	1	1	---	---	80
		SUBTOTALS		0	0	9,745	10	9	39	0	4,062
	BELTLINE STORM SEWER CROSSING	1125+31 - 1126+81	LT MED	63	88	---	---	---	---	---	---
		1125+34 - 1126+84	RT MED	63	88	---	---	---	---	---	---
		1124+50	RT	---	---	---	---	---	---	---	---
		1125+53	RT	---	---	---	---	---	---	---	---
		1126+45	RT	---	---	---	---	---	---	---	---
		SUBTOTALS		126	176	0	0	0	0	0	0
	WEST BELTLINE FRONTAGE ROAD	1181+07 S - 1182+12 S	RT	---	---	13	1	---	39	46	---
		71+42 SF - 77+41 SF	LT	---	---	500	2	---	---	15	230
		SUBTOTALS		0	0	513	3	0	39	61	230
	ITS	PCMS-01-1038	RT	---	---	225	1	1	---	---	115
		PCMS-01-1040	RT	---	---	190	1	---	39	---	---
		SUBTOTALS		0	0	415	2	1	39	0	115
		TOTALS		126	176	10,673	15	10	117	61	4,407

MOBILIZATION

CATEGORY	PROJECT ID	619.1000 EACH
0010	1206-07-77	0.75

CONCRETE MEDIAN

CATEGORY	PROJECT LOCATION	STATION	LOCATION	620.0200 CONCRETE MEDIAN BLUNT NOSE SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
0010	WEST BELTLINE FRONTAGE ROAD	1177+93 S	RT	---	40
		1179+22 S	LT	---	40
		1180+60 S	RT	---	60
		1180+76 S	LT	60	---
		74+55 SF	LT	---	40
		80+76 SF	LT	---	40
		SUBTOTALS (0010)		60	220
0020	SEMINOLE & SENTINEL	97+57 SP	LT/RT	---	50
		97+78 SP	LT/RT	---	35
		SUBTOTALS		0	85
	SEMINOLE & YUMA	99+19 SN	LT	---	30
		SUBTOTALS		0	30
		SUBTOTALS (0020)		0	115
			TOTALS	60	335

FENCE SUMMARY

CATEGORY	PROJECT LOCATION	STATION STATION	LOCATION	616.0206 CHAIN LINK 6-FT LF	616.0208 CHAIN LINK 8-FT LF	616.0329 GATES CHAIN LINK 3-FT EACH	616.0406 CHAIN LINK SALVAGED 6-FT LF	616.0700.S SAFETY LF
0010	N-13-4	78+40 K - 80+50 K	LT	---	---	---	270	---
		SUBTOTALS		0	0	0	270	0
	BELTLINE STORM	1119+06 - 1128+00	LT	895	---	---	---	2,400
	SEWER CROSSING	1123+97 - 1127+15	RT	---	---	---	320	325
		SUBTOTALS		895	0	0	320	2,725
	N-13-2	1158+47 - 1159+38	LT	87	---	---	---	---
		1169+24 - 1170+56	LT	135	---	1	---	---
		1158+47 - 1170+50	LT	---	---	---	---	1,160
		53+58 WW	21' RT	---	---	---	---	14
		54+24 WW	21' RT	---	---	---	---	14
		55+33 WW	21' RT	---	---	---	---	14
		55+85 WW	21' RT	---	---	---	---	15
		56+35 WW	21' RT	---	---	---	---	14
		56+83 WW	21' RT	---	---	---	---	15
		57+74 WW	22' RT	---	---	---	---	14
		58+48 WW	22' RT	---	---	---	---	13
		59+19 WW	23' RT	---	---	---	---	13
		59+75 WW	22' RT	---	---	---	---	13
		60+24 WW	20' RT	---	---	---	---	14
		60+80 WW	21' RT	---	---	---	---	15
		61+32 WW	21' RT	---	---	---	---	14
		62+00 WW	21' RT	---	---	---	---	14
		62+65 WW	20' RT	---	---	---	---	15
		63+31 WW	23' RT	---	---	---	---	14
		63+41 WW	20'RT	---	---	---	---	15
		63+92 WW	21' RT	---	---	---	---	14
		64+41 WW	21' RT	---	---	---	---	14
		SUBTOTALS		222	0	1	0	1,428
	B-13-664	1166+55 - 1170+36	RT	430	---	1	---	---
		1171+21 - 1171+85	LT	64	---	---	---	---
		1171+01 - 1175+56	RT	455	---	---	---	---
		SUBTOTALS		949	0	1	0	0
	WEST BELTLINE	70+90 SF - 76+88 SF	LT	---	---	---	---	600
	FRONTAGE ROAD	SUBTOTALS		0	0	0	0	600
	SAND & TRASH	1196+09 - 1196+19	LT	---	10	---	---	---
	COLLECTOR	1196+29 - 1195+65	LT	---	36	---	---	---
		SUBTOTALS		0	46	0	0	0
	BRITTA PKWY	121+61 EE - 121+81 EE	RT	---	---	---	19	---
		SUBTOTALS		0	0	0	19	0
	DETENTION BASIN A	93+83 EE	LT	---	---	---	---	610
		SUBTOTALS		0	0	0	0	610
		SUBTOTALS (0010)		2,066	46	2	609	5,363
								CON'T ABOVE

FENCE SUMMARY (CON'T)

CATEGORY	PROJECT LOCATION	STATION STATION	LOCATION	616.0206 CHAIN LINK 6-FT LF	616.0208 CHAIN LINK 8-FT LF	616.0329 GATES CHAIN LINK 3-FT EACH	616.0406 CHAIN LINK SALVAGED 6-FT LF	616.0700.S SAFETY LF
0020	CTH M &	97+44 MFH	48' LT	---	---	---	---	20
	FISH HATCHERY	98+55 MFH	45' LT	---	---	---	---	20
		103+77 MFH	53' LT	---	---	---	---	13
		103+86 MFH	47' LT	---	---	---	---	7
		105+44 MFH	39' LT	---	---	---	---	20
		106+76 MFH	39' LT	---	---	---	---	13
		95+23 MFH - 99+43 MFH	RT	---	---	---	---	405
		103+71 MFH - 107+98 MFH	LT	---	---	---	---	435
		96+43 FHM	36' LT	---	---	---	---	13
		98+28 FHM	48' LT	---	---	---	---	7
		104+79 FHM	49' RT	---	---	---	---	20
		105+06 FHM	49' RT	---	---	---	---	20
		101+42 FHM	43' LT	---	---	---	---	13
		95+41 FHM - 99+44 FHM	RT	---	---	---	---	390
		SUBTOTALS		0	0	0	0	1,396
	FISH HATCHERY	100+64 FHW	33' RT	---	---	---	---	13
	& WHALEN	105+39 FHW	58' LT	---	---	---	---	7
		105+87 FHW	71' LT	---	---	---	---	14
		106+32 FHW	69' LT	---	---	---	---	10
		106+66 FHW	69' LT	---	---	---	---	10
		107+21 FHW	66' LT	---	---	---	---	10
		107+66 FHW	65' LT	---	---	---	---	10
		108+03 FHW	65' LT	---	---	---	---	10
		108+44 FHW	55' LT	---	---	---	---	10
		99+10 WFH	45' RT	---	---	---	---	20
		SUBTOTALS		0	0	0	0	114
	SEMINOLE	92+88 SL	33' RT	---	---	---	---	17
	& LACY	94+23 SL	37' RT	---	---	---	---	17
		94+90 SL	39' RT	---	---	---	---	17
		SUBTOTALS		0	0	0	0	51
	SEMINOLE							
	& SENTINEL	102+97 SS	27' LT	---	---	---	---	28
		SUBTOTALS		0	0	0	0	28
		SUBTOTALS (0020)		0	0	0	0	1,589
0050	WHITNEY WAY	1064+01 - 65+48 WP	RT/LT	---	---	---	---	155
	BIKE PATH	1064+01 - 75+86 WP	RT	1,190	---	---	---	---
		SUBTOTALS (0050)		1,190	0	0	0	155
			TOTALS	3,256	46	2	609	7,107

WATER

CATEGORY	PROJECT LOCATION	STATION - STATION	624.0100 MGAL	REMARKS
0010	WEST BELTLINE WIDENING	1025+01 - 1077+41	86	DUST CONTROL
		1025+01 - 1077+41	210	COMPACTION
		SUBTOTAL	296	
	B-13-664	8+50 SH - 11+50 SH	3	DUST CONTROL
		8+51 SH - 11+51 SH	7	COMPACTION
		SUBTOTAL	10	
	WEST BELTLINE FRONTAGE ROAD	71+00 SF - 89+50 SF	27	DUST CONTROL
		1177+00 - 1193+73	16	DUST CONTROL
		71+00 SF - 89+50 SF	32	COMPACTION
		1177+00 - 1193+73	90	COMPACTION
		SUBTOTAL	165	
	SAND & TRASH COLLECTOR	1192+59 - 1197+34	3	DUST CONTROL
		SUBTOTAL	3	
	WARWICK WAY	50+75 WW - 63+50 WW	2	DUST CONTROL
		50+75 WW - 63+50 WW	13	COMPACTION
		SUBTOTAL	15	
	VERONA ROAD	975+15 VR - 991+50 VR	10	DUST CONTROL
		975+15 VR - 991+50 VR	45	COMPACTION
		SUBTOTAL	55	
	FREEPORT/NIEMANN/ U-HAUL PARKING LOT	PROJECT	80	DUST CONTROL
		PROJECT	80	COMPACTION
		SUBTOTAL	160	
	DETENTION BASINS	BASIN A	75	DUST CONTROL
		BASIN B	50	DUST CONTROL
		SUBTOTAL	125	
		SUBTOTAL (0010)	830	
0020	MITIGATION INTERSECTIONS	ALL 8 LOCATIONS	38	DUST CONTROL
		ALL 8 LOCATIONS	54	COMPACTION
		SUBTOTAL (0020)	92	
0050	WHITNEY WAY BIKE PATH	64+50 WP - 76+40 WP	2	DUST CONTROL
		64+50 WP - 76+40 WP	11	COMPACTION
		SUBTOTAL (0050)	13	
		TOTAL	934	

SILT FENCE

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF
0010	WEST BELTLINE WIDENING	1006+61 - 1009+62	LT	315	630
		1016+54 - 1020+42	RT	385	770
		1026+10 - 1028+99	LT	295	590
		1053+81 - 1056+98	LT	325	650
		SUBTOTALS		1,320	2,640
	N-13-4	77+77 K - 82+33 K	LT	540	1,080
		SUBTOTALS		540	1,080
	WEST BELTLINE FRONTAGE ROAD	71+41 SF - 83+87 SF	RT	1,250	2,500
		1192+58 - 1197+34	LT	500	1,000
		117+19 EE - 120+49 EE	LT	360	720
		SUBTOTALS		2,110	4,220
	SAND & TRASH COLLECTOR	1192+58 - 1197+34	LT	500	1000
		SUBTOTALS		500	1,000
	VERONA ROAD	982+91 VR - 987+11 VR	LT	785	1,570
		983+68 VR - 987+23 VR	RT	950	1,900
		988+35 VR - 995+15 VR	LT	1,270	2,540
		988+22 VR - 998+33 VR	RT	2,220	4,440
		SUBTOTALS		5,225	10,450
	FREEPORT ROAD	12+91 FP - 13+07 FP	LT	61	122
		14+39 FP - 14+47 FP	LT	45	90
		16+65 FP - 18+40 FP	LT	200	400
		SUBTOTALS		306	612
	WARWICK WAY	50+71 WW - 51+53 WW	RT	110	220
		51+59 WW - 58+64 WW	RT	795	1,590
		SUBTOTALS		905	1,810
		UNDISTRIBUTED	---	2,730	5,460
		SUBTOTALS (0010)		13,636	27,272
					CON'T ABOVE

SILT FENCE (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF
0020	CTH PB & CTH M	103+00 MPB - 104+00 MPB	LT	73	146
		SUBTOTALS		73	146
	CTH M & FISH HATCHERY	93+29 MFH - 96+00 MFH	LT	270	540
		93+17 FHM - 97+00 FHM	RT	385	770
		SUBTOTALS		655	1,310
	FISH HATCHERY & WHALEN	95+84 FHW - 99+18 WFH	RT	440	880
		100+27 FHW - 101+50 FHW	RT	145	290
		104+50 FHW - 108+61 FHW	LT	420	840
		SUBTOTALS		1,005	2,010
	SEMINOLE & LACY	92+50 SL - 99+00 SL	LT	650	1,300
		100+89 SL - 102+15 SL	RT	130	260
		SUBTOTALS		780	1,560
	SEMINOLE & SENTINEL	98+50 SS - 99+71 SS	LT	135	270
		100+24 SS - 102+50 SS	LT	245	490
		99+00 SP - 99+44 SP	RT	45	90
		SUBTOTALS		425	850
		UNDISTRIBUTED	---	735	1,470
		SUBTOTALS (0020)		3,673	7,346
0050	WHITNEY WAY BIKE PATH	65+96 WP - 72+07 WP	RT	615	1,230
		SUBTOTALS (0050)		615	1,230
		TOTALS		17,924	35,848

MOBILIZATIONS EROSION CONTROL

CATEGORY	PROJECT LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	WEST BELTLINE WIDENING	3	2
	N-13-4	1	1
	BELTLINE STORM SEWER CROSSING	4	3
	N-13-2	2	2
	B-13-664	3	2
	WEST BELTLINE FRONTAGE ROAD	5	2
	VERONA ROAD	4	2
	FREEPORT ROAD & NIEMANN PL	4	3
	WARWICK WAY	1	---
	SUBTOTALS (0010)	27	17
			CON'T ABOVE

MOBILIZATIONS EROSION CONTROL (CON'T)

CATEGORY	PROJECT LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0020	CTH PB & CTH M	1	---
	CTH M & FISH HATCHERY	1	1
	FISH HATCHERY & WHALEN	1	1
	SEMINOLE & LACY	1	1
	SEMINOLE & CTH PD	1	---
	SEMINOLE & SENTINEL	1	1
	SEMINOLE/YUMA & NAKOMA	1	---
	WHITNEY & GILBERT	1	---
	SUBTOTALS (0020)	8	4
	TOTALS	35	21

FINISHING ITEMS

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0171 SEEDING MIXTURE NO. 70A LB	630.0200 SEEDING TEMPORARY LB	630.0400 SEEDING NURSE CROP LB	SPV.0085.01 SEEDING MIXTURE WET DETENTION BASIN LB	SPV.0120.01 WATER FOR SEEDED AREAS MGAL
0010	WEST BELTLINE WIDENING	994+77 - 1025+01	MEDIAN	---	4,700	---	3.0	130	---	---	130	---	---	56.0
		1006+54 - 1009+66	LT	---	300	---	0.2	8	---	---	8	---	---	3.6
		1016+54 - 1020+42	RT	---	200	---	0.1	5	---	---	5	---	---	2.4
		1025+01 - 1034+82	MEDIAN	---	1,600	---	1.0	45	---	---	45	---	---	20.0
		1026+10 - 1036+22	LT	---	710	---	0.4	20	---	---	20	---	---	8.5
		1035+18 - 1069+49	MEDIAN	---	5,550	---	3.5	150	---	---	150	---	---	67.0
		1053+80 - 76+66 L	LT	---	4,300	---	2.7	120	---	---	120	---	---	52.0
		SUBTOTALS		0	17,360	0	11.0	478	0	0	478	0	0	209.5
	N-13-4	77+99 K - 82+01 K	LT	930	---	---	0.6	---	15	---	25	---	---	11.0
		SUBTOTALS		930	0	0	0.6	0	15	0	25	0	0	11
	BELTLINE STORM SEWER CROSSING	1119+72 - 1123+97	LT	---	5,450	---	3.4	150	---	---	150	---	---	65.0
		1121+44 - 1123+62	LT	---	2,100	---	---	---	---	---	55	---	55	25.0
		1123+48 - 1126+93	LT	---	4,650	4,650	2.9	---	---	15	---	35	---	56.0
		1125+03 - 1126+89	MEDIAN	---	580	---	0.4	15	---	---	15	---	---	6.9
		1124+34 - 1127+15	RT	---	970	---	0.6	25	---	---	25	---	---	12.0
		SUBTOTALS		0	13,750	4,650	7.3	190	0	15	245	35	55	164.9
	WEST BELTLINE FRONTAGE ROAD	1164+34 - 1177+20	RT	---	2,500	---	1.6	65	---	---	65	---	---	30.0
		1165+45 - 1175+37	RT	---	2,450	---	1.6	65	---	---	65	---	---	30.0
		71+63 SF - 80+90 SF	RT	780	---	---	0.5	---	15	---	20	---	---	9.3
		71+53 SF - 83+75 SF	RT	1,450	---	---	0.9	40	---	---	40	---	---	17.0
		82+11 SF - 93+67 SF	LT	---	2,100	---	1.3	55	---	---	55	---	---	25.0
		116+86 EE - 120+43 EE	LT/RT	---	1,200	---	0.8	---	20	---	30	---	---	14.0
		119+45 EE - 124+48 EE	LT/RT	1,950	---	---	1.2	---	35	---	55	---	---	23.0
		SUBTOTALS		4,180	8,250	0	7.8	225	70	0	330	0	0	148.3
	TODD DRIVE STORM SEWER	11+07 TD - 11+60 TD	RT	---	55	---	---	1	---	---	1	---	---	0.7
		SUBTOTALS		0	55	0	0.0	1	0	0	1	0	0	0.7
	SAND & TRASH COLLECTOR	1192+58 - 1197+34	LT	---	1,000	---	0.6	25	---	---	25	---	---	12.0
		SUBTOTALS		0	1,000	0	0.6	25	0	0	25	0	0	12.0
	VERONA RD	982+03 VR - 987+14 VR	LT	---	2,450	---	1.5	---	45	---	65	---	---	29.0
		983+68 VR - 987+22 VR	RT	---	4,350	---	2.7	---	80	---	120	---	---	52.0
		987+77 VR - 987+88 VR	LT	---	55	---	---	---	1	---	2	---	---	0.7
		988+19 VR - 995+16 VR	LT	---	2,450	---	1.5	---	45	---	65	---	---	29.0
		995+21 VR - 995+29 VR	LT	---	40	---	---	---	1	---	1	---	---	0.5
		988+25 VR - 998+31 VR	RT	---	7,150	---	4.5	---	130	---	190	---	---	86.0
		SUBTOTALS		0	16,495	0	10.3	0	302	0	443	0	0	197.2
	WARWICK WAY	50+75 WW - 51+60 WW	RT	240	---	---	0.1	---	4	---	6	---	---	2.9
		50+75 WW - 53+50 WW	LT	260	---	---	0.2	---	5	---	7	---	---	3.2
		51+71 WW - 64+86 WW	RT	---	3,850	---	2.4	---	70	---	100	---	---	46.0
		54+00 WW - 1176+27	LT/RT	---	8,700	---	5.5	230	---	---	230	---	---	100.0
		SUBTOTALS		500	12,550	0	8.2	230	79	0	343	0	0	152.1

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FINISHING ITEMS (CONT.)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0171 SEEDING MIXTURE NO. 70A LB	630.0200 SEEDING TEMPORARY LB	630.0400 SEEDING NURSE CROP LB	SPV.0085.01 SEEDING MIXTURE WET DETENTION BASIN LB	SPV.0120.01 WATER FOR SEEDED AREAS MGAL
0010 (CONT.)	FREEPORT RD	10+75 FP - 11+07 FP	LT	---	30	---	---	---	1	---	1	---	---	0.3
		11+11 FP - 15+44 FP	RT	---	390	---	0.2	10	---	---	10	---	---	4.7
		12+95 FP - 13+08 FP	LT	120	---	---	0.1	---	2	---	3	---	---	1.4
		13+53 FP - 14+48 FP	LT	450	---	---	0.3	---	8	---	10	---	---	5.4
		14+48 FP - 14+88 FP	LT	---	610	---	0.4	15	---	---	15	---	---	7.3
		16+68 FP - 19+61 FP	LT	---	510	---	0.3	15	---	---	15	---	---	6.1
		17+95 FP - 21+47 FP	RT	---	340	---	0.2	9	---	---	9	---	---	4.1
		SUBTOTALS		570	1,880	0	1.5	49	11	0	63	0	0	29.3
	WEST VERONA ROAD FRONTAGE ROAD	93+59 EE - 98+50 EE	LT	650	0	---	0.4	---	10	0	15	0	---	7.8
		93+96 EE - 98+41 EE	LT	---	6,200	---	3.9	---	---	---	170	0	170	75.0
		98+70 EE - 98+76 EE	LT	110	0	---	0.1	---	2	0	3	0	---	1.3
		SUBTOTALS		760	6,200	0	4.4	0	12	0	188	0	170	84.1
	NIEMANN PLACE	17+36 BP - 19+82 BP	LT/RT	290	---	---	0.2	---	5	---	8	---	---	3.5
		SUBTOTALS		290	0	0	0.2	0	5	0	8	0	0	3.5
	ITS	PCMS-01-1038 SPRING ROSE CIRCLE		---	380	---	0.2	10	---	---	10	---	---	4.6
		PCMS-01-1039 LOCUST DRIVE		---	170	---	0.1	5	---	---	5	---	---	2.1
		PCMS-01-1040 GRANDVIEW ROAD		---	55	---	0.0	2	---	---	2	---	---	0.7
		PCMS-01-1041 MINERAL POINT ROAD		---	180	---	0.1	5	---	---	5	---	---	2.2
		SUBTOTALS		0	785	0	0.5	22	0	0	22	0	0	9.6
		UNDISTRIBUTED		---	---	---	13.1	310	120	0	540	0	55	---
		SUBTOTALS (0010)		7,230	78,325	4,650	65.6	1,530	614	15	2,711	35	280	1,022.2
0020	CTH PB & CTH M	101+54 PB - 105+26 PB	LT/RT	---	600	---	0.4	---	10	---	15	---	---	7.3
		101+15 MPB - 103+74 MPB	LT/RT	---	240	---	0.1	6	---	---	6	---	---	2.8
		SUBTOTALS		0	840	0	0.5	6	10	0	21	0	0	10.1
	CTH M & FISH HATCHERY	92+02 MFH - 107+98 MFH	LT/RT	---	4,000	---	3.4	150	---	---	150	---	---	48.0
		93+18 FHM - 106+97 FHM	LT/RT	---	1,900	---	1.9	80	---	---	80	---	---	23.0
		SUBTOTALS		0	5,900	0	5.3	230	0	0	230	0	0	71.0
	FISH HATCHERY & WHALEN	95+84 FHW - 108+61 FHW	LT/RT	---	4,050	---	3.0	100	15	---	130	---	---	49.0
		98+18 WFH - 99+07 WFH	RT	---	55	---	0.2	7	---	---	7	---	---	0.7
		SUBTOTALS		0	4,105	0	3.1	107	15	0	137	0	0	49.7
	SEMINOLE & LACY	90+54 SL - 107+03 SL	LT/RT	---	3,400	---	3.1	130	---	---	130	---	---	41.0
		96+85 LR - 103+52 LR	LT/RT	---	680	---	0.8	30	---	---	30	---	---	8.1
		SUBTOTALS		0	4,080	0	3.9	160	0	0	160	0	0	49.1
	SEMINOLE & CTH PD	93+46 PD - 98+00 PD	LT/RT	---	280	---	0.2	---	5	---	7	---	---	3.3
		SUBTOTALS		0	280	0	0.2	0	5	0	7	0	0	3.3
	SEMINOLE & SENTINEL	95+87 SS - 103+27 SS	LT	---	400	---	0.3	---	7	---	10	---	---	4.8
		97+07 SP - 99+44 SP	RT	---	95	---	0.1	---	2	---	3	---	---	1.1
		SUBTOTALS		0	495	0	0.3	0	9	0	13	0	0	5.9

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FINISHING ITEMS (CONT.)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0171 SEEDING MIXTURE NO. 70A LB	630.0200 SEEDING TEMPORARY LB	630.0400 SEEDING NURSE CROP LB	SPV.0085.01 SEEDING MIXTURE WET DETENTION BASIN LB	SPV.0120.01 WATER FOR SEEDED AREAS MGAL
0020 (CONT.)	SEMINOLE / YUMA & NAKOMA	99+14 SN - 100+66 SN	LT/RT	60	---	---	0.1	---	1	---	2	---	---	0.2
		98+71 SN - 100+68 SN	LT/RT	20	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		80	0	0	0.1	0	1	0	2	0	0	0.2
	WHITNEY & GILBERT	97+12 W - 98+54 W	RT	---	230	---	0.1	---	4	---	6	---	---	2.8
		99+17 W - 102+62 W	RT	---	280	---	0.2	---	5	---	8	---	---	3.4
		SUBTOTALS		0	510	0	0.3	0	9	0	14	0	0	6.2
		UNDISTRIBUTED		---	---	---	3.4	130	10	---	150	---	---	---
		SUBTOTALS (0020)		80	16,210	0	17	633	59	0	734	0	0	195.5
0050	WHITNEY WAY BIKE PATH	64+50 WP - 65+26 WP	LT	---	20	---	0.0	---	1	---	1	---	---	0.2
		65+35 WP - 76+34 WP	LT	---	1,050	---	0.7	---	30	---	30	---	---	13.0
		SUBTOTALS (0050)		0	1,070	0	0.7	0	31	0	31	0	0	13.2
			TOTALS	7,310	94,905	3,950	82.9	2,163	704	15	3,476	30	280	1,221.9

EROSION MAT

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	628.2004 CLASS I TYPE B SY	628.2006 URBAN CLASS I TYPE A SY	628.2027 CLASS II TYPE C SY
0010	WEST BELTLINE WIDENING	994+77 - 1025+01	MEDIAN	4,700	---	---
		1006+54 - 1009+66	LT	300	---	---
		1016+54 - 1020+42	RT	200	---	---
		1025+01 - 1034+82	MEDIAN	1,600	---	---
		1026+10 - 1036+22	LT	710	---	---
		1035+18 - 1069+49	MEDIAN	5,550	---	---
		1053+80 - 76+66 L	LT	4,300	---	---
		SUBTOTALS		17,360	0	0
	N-13-4	77+99 K - 82+01 K	LT	---	930	---
		SUBTOTALS		0	930	0
	BELTLINE STORM SEWER CROSSING	1119+72 - 1123+97	LT	7,550	---	---
		1125+03 - 1126+89	MEDIAN	580	---	---
		1124+34 - 1127+15	RT	970	---	---
		SUBTOTALS		9,100	0	0
	WEST BELTLINE FRONTAGE ROAD	1164+34 - 1177+20	RT	2,500	---	---
		1165+45 - 1175+37	RT	---	---	2,450
		71+63 SF - 80+90 SF	RT	---	780	---
		71+53 SF - 83+75 SF	RT	1,450	---	---
		82+11 SF - 93+67 SF	LT	2,100	---	---
		116+86 EE - 120+43 EE	LT/RT	---	1,200	---
		119+45 EE - 124+48 EE	LT/RT	---	1,950	---
		SUBTOTALS		6,050	3,930	2,450
	TODD DRIVE STORM SEWER	11+07 TD - 11+60 TD	RT	55	---	---
		SUBTOTALS		55	0	0
	SAND & TRASH COLLECTOR	1192+58 - 1197+34	LT	---	---	1,000
		SUBTOTALS		0	0	1,000
	VERONA RD	982+03 VR - 987+14 VR	LT	---	2,450	---
		983+68 VR - 987+22 VR	RT	---	4,350	---
		987+77 VR - 987+88 VR	LT	---	55	---
		988+19 VR - 995+16 VR	LT	---	2,450	---
		995+21 VR - 995+29 VR	LT	---	40	---
		988+25 VR - 998+31 VR	RT	---	7,150	---
		SUBTOTALS		0	16,495	0
	FREEPORT RD	10+75 FP - 11+07 FP	LT	---	25	---
		11+11 FP - 15+44 FP	RT	390	---	---
		12+95 FP - 13+08 FP	LT	120	---	---
		13+53 FP - 14+48 FP	LT	---	450	---
		14+48 FP - 14+88 FP	LT	610	---	---
		16+68 FP - 19+61 FP	LT	510	---	---
		17+95 FP - 21+47 FP	RT	340	---	---
		SUBTOTALS		1,970	475	0
	WEST VERONA ROAD FRONTAGE ROAD	93+59 EE - 98+50 EE	LT	---	650	---
		93+96 EE - 98+41 EE	LT	6,200	---	---
		98+70 EE - 98+76 EE	LT	---	110	---
		SUBTOTALS		6,200	760	0

CON'T ABOVE

EROSION MAT (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	628.2004 CLASS I TYPE B SY	628.2006 URBAN CLASS I TYPE A SY	628.2027 CLASS II TYPE C SY
0010 (CON'T)	NIEMANN PLACE	17+36 BP - 19+82 BP	LT/RT	---	290	---
		SUBTOTALS		0	290	0
	WARWICK WAY	50+75 WW - 51+60 WW	RT	---	240	---
		50+75 WW - 53+50 WW	LT	---	260	---
		51+71 WW - 64+86 WW	RT	---	3,850	---
		54+00 WW - 1176+27	LT/RT	8,700	---	---
		SUBTOTALS		8,700	4,350	0
	ITS	PCMS-01-1038 SPRING ROSE CIRCLE		380	---	---
		PCMS-01-1039 LOCUST DRIVE		170	---	---
		PCMS-01-1040 GRANDVIEW ROAD		55	---	---
		PCMS-01-1041 MINERAL POINT ROAD		180	---	---
		SUBTOTALS		785	0	0
		UNDISTRIBUTED	---	12,500	6,800	860
		SUBTOTALS (0010)		62,720	34,030	4,310
0020	CTH PB & CTH M	101+54 PB - 105+26 PB	LT/RT	---	600	---
		101+15 MPB - 103+74 MPB	LT/RT	240	---	---
		SUBTOTALS		240	600	0
	CTH M & FISH HATCHERY	92+02 MFH - 107+98 MFH	LT/RT	4,000	---	---
		93+18 FHM - 106+97 FHM	LT/RT	1,900	---	---
		SUBTOTALS		5,900	0	0
	FISH HATCHERY & WHALEN	95+84 FHW - 108+61 FHW	LT/RT	3,000	1,050	---
		98+18 WFH - 99+07 WFH	RT	55	---	---
		SUBTOTALS		3,055	1,050	0
	SEMINOLE & LACY	90+54 SL - 107+03 SL	LT/RT	3,400	---	---
		97+16 LR - 103+52 LR	LT/RT	680	---	---
		SUBTOTALS		4,080	0	0
	SEMINOLE & CTH PD	93+47 PD - 98+00 PD	LT/RT	---	280	---
		SUBTOTALS		0	280	0
	SEMINOLE & SENTINEL	95+87 SS - 103+27 SS	LT	---	400	---
		97+10 SP - 99+44 SP	RT	---	95	---
		SUBTOTALS		0	495	0
	SEMINOLE / YUMA & NAKOMA	99+14 SN - 100+66 SN	LT/RT	---	60	---
		98+71 SN - 100+68 SN	LT/RT	---	20	---
		SUBTOTALS		0	80	0
	WHITNEY & GILBERT	97+12 W - 98+54 W	RT	---	230	---
		99+17 W - 102+62 W	RT	---	280	---
		SUBTOTALS		0	510	0
		UNDISTRIBUTED	---	3,300	730	---
		SUBTOTALS (0020)		16,575	3,745	0
0050	WHITNEY WAY BIKE PATH	64+50 WP - 65+26 WP	LT	20	---	---
		65+35 WP - 76+34 WP	LT	1,050	---	---
		UNDISTRIBUTED	---	280	---	---
		SUBTOTALS (0050)		1,350	0	0
		TOTALS		80,645	37,775	4,310

INLET PROTECTION

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
0010	WEST BELTLINE WIDENING	1003+65 - 1054+00	LT/RT	7	1	2	2
		1054+00 - 76+79 L	LT/RT	8	---	4	6
		SUBTOTALS		15	1	6	8
	BELTLINE STORM SEWER CROSSING	1120+00 - 1130+00	LT/RT	9	4	2	---
		SUBTOTALS		9	4	2	0
	WEST BELTLINE FRONTAGE ROAD	1164+35 - 1197+50	LT/RT	34	3	34	---
		117+19 EE - 124+50 EE	LT	3	3	4	---
		SUBTOTALS		37	6	38	0
	VERONA RD	975+00 VR - 1000+00 VR	LT/RT	21	16	17	1
		SUBTOTALS		21	16	17	1
	FREEPORT RD	11+00 FP - 21+50 FP	LT/RT	6	1	5	---
		SUBTOTALS		6	1	5	0
	BRITTA PKWY	17+96 BP - 19+81 BP	LT/RT	4	---	4	---
		SUBTOTALS		4	0	4	0
	WEST VERONA ROAD FRONTAGE ROAD	93+50 EE - 98+50 EE	LT/RT	4	---	3	2
		SUBTOTALS		4	0	3	2
	WARWICK WAY	50+50 WW - 1176+50	LT/RT	16	2	11	6
		SUBTOTALS		16	2	11	6
		UNDISTRIBUTED	---	28	8	22	4
		SUBTOTALS (0010)		140	38	108	21

CON'T ABOVE

INLET PROTECTION (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
0020	CTH PB & CTH M	99+00 PB - 107+00 PB	LT/RT	1	---	10	---
		SUBTOTALS		1	0	10	0
	CTH M & FISH HATCHERY	92+00 MFH - 108+00 MFH	LT	3	3	---	---
		SUBTOTALS		3	3	0	0
	FISH HATCHERY & WHALEN	100+00 FHW - 108+50 FHW	LT	2	2	---	---
		SUBTOTALS		2	2	0	0
	SEMINOLE & SENTINEL	96+50 SP - 99+50 SP	RT	4	---	6	2
		99+82 SS	RT	---	---	1	---
		SUBTOTALS		4	0	7	2
	SEMINOLE & CTH PD	91+24 PD - 99+51 PD	LT/RT	---	---	4	---
		SUBTOTALS		0	0	4	0
	SEMINOLE / YUMA & NAKOMA	98+50 SN - 100+66 SN	LT/RT	---	---	5	---
		98+50 N - 101+50 N	LT/RT	---	---	4	---
		SUBTOTALS		0	0	9	0
	WHITNEY & GILBERT	95+84 W - 100+05 W	LT/RT	10	---	2	---
		SUBTOTALS		10	0	2	0
		UNDISTRIBUTED	---	5	1	8	1
		SUBTOTALS (0020)		25	6	40	3
0050	WHITNEY WAY BIKE PATH	64+50 WP - 70+75 WP	LT	1	1	1	---
		SUBTOTALS (0050)		1	1	1	0
		TOTALS		166	45	149	24

TEMPORARY DITCH CHECKS

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	628.7504 LF
0010	WEST BELTLINE WIDENING	1006+00 - 1034+81	MED	140
		1026+10 - 1036+21	LT	30
		1035+19 - 1069+49	MED	300
		1053+81 - 1064+50	LT	100
		SUBTOTAL		570
	WEST BELTLINE FRONTAGE ROAD	1164+26 _ 1176+27	LT	40
		1164+34 - 1194+00	RT	160
		SUBTOTAL		200
		UNDISTRIBUTED	---	195
		SUBTOTAL (0010)		965
0020	CTH M & CTH PB	101+30 MPB	LT	10
		SUBTOTAL		10
	CTH M & FISH HATCHERY	91+50 MFH - 108+50 MFH	LT/RT	40
		93+50 FHM - 95+00 FHM	LT/RT	20
		SUBTOTAL		60
	FISH HATCHERY & WHALEN	95+50 FHW - 99+00 FHW	LT/RT	20
		106+50 FHW	LT	10
		SUBTOTAL		30
	SEMINOLE & LACY	99+50 SL	LT/RT	20
		SUBTOTAL		20
		UNDISTRIBUTED	---	30
		SUBTOTAL (0020)		150
0050	WHITNEY WAY BIKE PATH	64+50 WP - 76+48 WP	RT	30
		UNDISTRIBUTED	---	10
		SUBTOTAL (0050)		40
		TOTALS		1,155

CULVERT PIPE CHECKS

CATEGORY	PROJECT LOCATION	STATION	LOCATION	628.7555 EACH	REMARKS
0010	WEST BELTLINE WIDENING	1062+23	RT	3	24"
		1068+46	RT	1	12"
		69+20 WP	LT	1	12"
		SUBTOTAL		5	
	BELTLINE STORM SEWER CROSSING	1122+65	LT	3	24"
		SUBTOTAL		3	
	WEST VERONA ROAD FRONTAGE ROAD	95+16 EE	LT	10	60"
		SUBTOTAL		10	
		UNDISTRIBUTED		4	
		SUBTOTAL (0010)		22	
0020	CTH M & FISH HATCHERY	95+56 MFH	RT	2	14"X23"
		103+36 MFH	LT	2	14"X23"
		104+60 MFH	LT	3	24"
		106+44 MFH	LT	2	14"X23"
		95+98 FHM	LT	2	21"X15"
		97+77 FHM	LT	2	21"X15"
		97+95 FHM	RT	2	21"X15"
		101+82 FHM	LT	2	21"X15"
		101+80 FHM	LT	2	21"X15"
		105+27 FHM	RT	2	21"X15"
		SUBTOTAL		21	
	FISH HATCHERY & WHALEN	96+58 FHW	LT	2	18"
		108+98 FHW	LT	2	18"
		98+24 WFH	RT	2	21"X15"
		99+19 WFH	RT	5	30"
		SUBTOTAL		11	
	SEMINOLE & LACY	92+04 SL	RT	1	12"
		92+64 SL	RT	8	49"X33"
		94+44 SL	RT	5	32"X24"
		106+53 SL	LT	1	12"
		98+84 LR	LT	2	15"
		100+74 LR	LT	8	29"X45"
		100+80 LR	LT	8	29"X45"
		SUBTOTAL		33	
		UNDISTRIBUTED		16	
		SUBTOTAL (0020)		81	
		TOTAL		103	

TRACKING PADS

CATEGORY	LOCATION	628.7560 EACH
0010	DETENTION BASIN A	1
	DETENTION BASIN B	1
	STOCKPILE 2	1
	STOCKPILE 4	1
	TOTAL	4

MARKERS CULVERT END

CATEGORY	PROJECT LOCATION	STATION	OFFSET		*633.5200 EACH
0010	WEST BELTLINE WIDENING	1025+90	5.5	LT	1
		1042+48	2.8	LT	1
		1051+17	2.7	LT	1
		1064+67	85.9	LT	1
		1069+18	12.9	LT	1
		SUBTOTAL			5
	N-13-2	1164+70	89.7	LT	1
		1166+00	79.2	LT	1
		1169+99	82.0	LT	1
		1169+57	80.0	RT	1
		SUBTOTAL			4
	WEST BELTLINE FRONTAGE ROAD	1176+49 S	36.5	LT	1
		SUBTOTAL			1
	SAND & TRASH COLLECTOR	1194+49	80.7	'LT	1
		1195+00	80.6	'LT	1
		SUBTOTAL			2
	TODD DRIVE STORM SEWER	11+51 TD	52.1	RT	1
		SUBTOTAL			1
		TOTAL			13

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

DELINEATOR

CATEGORY	STAGE	STATION - STATION	LOCATION	633.0100 POSTS STEEL EACH	633.0500 REFLECTORS EACH	633.1000 BRACKETS EACH
0010	WEST BELTLINE WIDENING	1026+00 - 1056+00	LT	9	9	---
		1056+00 - 1065+25	LT	10	20	---
		1065+25 - 76+00 L	LT	12	12	---
		1069+50 - 1077+66	MED	---	18	9
		SUBTOTALS		31	59	9
	WEST BELTLINE FRONTAGE ROAD	1177+20 - 1180+08	RT	---	4	4
		1182+13 - 1193+73	RT	---	13	13
		SUBTOTALS		0	17	17
		TOTALS		31	76	26

PERMANENT SIGNING SUPPORT SUMMARY

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	634.0612 POSTS WOOD 4x6-INCH x 12-FT EACH	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	*634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	*634.0618 POSTS WOOD 4x6-INCH x 18-FT EACH	*634.0620 POSTS WOOD 4x6-INCH x 20-FT EACH	634.0622 POSTS WOOD 4x6-INCH x 22-FT EACH	634.0810 POSTS TUBULAR STEEL 2x2-INCH x 10-FT EACH	634.0812 POSTS TUBULAR STEEL 2x2-INCH x 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2x2-INCH x 14-FT EACH	SPV.0060.06 POSTS GALVANIZED STEEL FOR BARRIER WALL EACH	SPV.0060.31 POSTS ROUND TUBULAR STEEL 2-INCH 10-FT EACH	SPV.0060.32 POSTS ROUND TUBULAR STEEL 2-INCH 12-FT EACH	SPV.0060.33 POSTS ROUND TUBULAR STEEL 2-INCH 14-FT EACH	SPV.0060.34 POSTS ROUND TUBULAR STEEL 2-INCH 16-FT EACH	SPV.0060.35 PRECAST SIGN POST BASE EACH	REMARKS
0010	0-1	997+40	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	0-2	997+40	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	0-3	1007+09	LT	E7-2	OVERHEAD ARROW PER LANE GUIDE SIGN (2 ARROWS)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON S-13-0384
	0-3	1007+09	LT	E1-5P	EXIT NUMBER PANEL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON S-13-0384
	0-4	1007+80	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	
	0-5	1007+80	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	0-6	1018+30	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	
	0-7	1018+30	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	1-1	1029+50	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	1-2	1029+50	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 1-1
	1-3	1030+00	LT	E7-2	OVERHEAD ARROW PER LANE GUIDE SIGN (2 ARROWS)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON S-13-0395
	1-3	1030+00	LT	E1-5P	EXIT NUMBER PANEL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON S-13-0395
	1-4	1038+39	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	
	1-5	1038+39	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 1-4
	1-6	1035+22	RT	R3-4B	NO U-TURN W/ MAINT. AND POLICE VEH.	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	
	1-7	1035+22	RT	R3-4B	NO U-TURN W/ MAINT. AND POLICE VEH.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 1-6
	2-1	1049+07	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	
	2-2	1049+07	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 2-1
	2-3	1054+50	LT	E7-2	OVERHEAD ARROW PER LANE GUIDE SIGN (2 ARROWS)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON S-13-0394
	2-3	1054+50	LT	E1-5P	EXIT NUMBER PANEL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON S-13-0394
	3-1	1059+59	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	3-2	1059+59	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 3-2
	3-3	1060+00	LT	R2-1	SPEED LIMIT 55 MPH	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	
	3-4	1065+00	LT	J4-2	REASSURANCE ASSEMBLY	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	
	4-1	1070+89	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	---	---	---	1	---	---	1	---	---	---	---	---	LENGTH OF SIGN POST = 8.15'
	4-2	1070+89	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 4-1
	4-3	74+15 L	LT	J4-1	DIRECTIONAL ASSEMBLY	---	---	---	---	---	---	---	---	2	---	---	---	---	---	---	
	4-4	75+76 L	LT	R5-57	PEDESTRIANS ETC, PROHIBITED	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	
	4-5	1077+00	LT	W4-1	MERGING TRAFFIC SYMBOL (RIGHT)	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	
	4-6	1074+75	LT	I55-56	ADOPT A HIGHWAY SPONSOR	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	
	E5-2	1167+42	LT	E3-1	MIDVALE BLVD, VERONA ROAD NEXT RIGHT	---	---	---	---	2	6	---	---	---	---	---	---	---	---	---	18' CLEAR - 4x22', 30' CLEAR - 2x22' AND 2x20'
	E5-17	11+08 SH	LT	R3-8A	LANE DESIGNATION LEFT ONLY/ AHEAD, RIGHT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
	E5-19	8+90 SH	LT	R14-1	TRUCK ROUTE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
	E5-22	71+10 SF	LT	R14-1	TRUCK ROUTE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
	E5-27	72+58 SF	LT	R3-8A	LANE DESIGNATION LEFT ONLY/ AHEAD, RIGHT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
	E5-28	73+64 SF	LT	D1-2	UW ARBORETUM	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	
	5-1	74+64 SF	LT	R5-1	DO NOT ENTER	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	5-2	74+69 SF	LT	R4-7	KEEP RIGHT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	5-3	73+00 SF	RT	W6-3	TWO WAY TRAFFIC SYMBOL	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	5-4	72+40 SF	LT	R2-1	SPEED LIMIT 30 MPH	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	5-5	57+10 WW	RT	D9-54	FIRE HYDRANT IDENTIFICATION SIGN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON NOISE WALL OVER HOSE ACCESS HOLE
	5-6	57+10 WW	RT	D9-54	FIRE HYDRANT IDENTIFICATION SIGN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON NOISE WALL OVER HOSE ACCESS HOLE
	5-7	57+10 WW	RT	D9-54A	FIRE HYDRANT SYMBOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DOUBLE SIDED SIGN; MOUNT ON NOISE WALL
	5-8	57+10 WW	RT	D9-54A	FIRE HYDRANT SYMBOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DOUBLE SIDED SIGN; MOUNT ON NOISE WALL
	5-9	60+15 WW	RT	D9-54	FIRE HYDRANT IDENTIFICATION SIGN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON NOISE WALL OVER HOSE ACCESS HOLE
	5-10	60+15 WW	RT	D9-54	FIRE HYDRANT IDENTIFICATION SIGN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON NOISE WALL OVER HOSE ACCESS HOLE
	5-11	60+15 WW	RT	D9-54A	FIRE HYDRANT SYMBOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DOUBLE SIDED SIGN; MOUNT ON NOISE WALL
	5-12	60+15 WW	RT	D9-54A	FIRE HYDRANT SYMBOL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	DOUBLE SIDED SIGN; MOUNT ON NOISE WALL
	6-1	75+00 SF	RT	D1-2	DESTINATION W/ ARROW	---	---	---	---	---	---	---	---	---	---	---	---	3	---	3	
	6-2	78+03 SF	LT	W3-3	SIGNAL AHEAD	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	6-3	76+30 SF	RT	D1-2	DESTINATION W/ ARROW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON EXISTING SIGN STRUCTURE
	6-4	76+30 SF	RT	D1-2	DESTINATION W/ ARROW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME EXISTING SIGN STRUCTURE AS 6-3
	6-5	75+44 SF	LT	W12-1D	DOUBLE DOWN ARROWS	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	SIGN MOUNTED AT HEIGHT OF 2'3"
	SHEET TOTALS (0010)					0	0	5	9	3	6	1	1	2	1	2	4	3	0	15	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CON'T ON NEXT PAGE

PERMANENT SIGNING SUPPORT SUMMARY (CON'T)

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	634.0612 POSTS WOOD 4x6-INCH × 12-FT EACH	634.0614 POSTS WOOD 4x6-INCH × 14-FT EACH	*634.0616 POSTS WOOD 4x6-INCH × 16-FT EACH	*634.0618 POSTS WOOD 4x6-INCH × 18-FT EACH	*634.0620 POSTS WOOD 4x6-INCH × 20-FT EACH	634.0622 POSTS WOOD 4x6-INCH × 22-FT EACH	634.0810 POSTS TUBULAR STEEL 2x2-INCH × 10-FT EACH	634.0812 POSTS TUBULAR STEEL 2x2-INCH × 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2x2-INCH × 14-FT EACH	SPV.0060.06 POSTS GALVANIZED STEEL FOR BARRIER WALL EACH	SPV.0060.31 POSTS ROUND TUBULAR STEEL 2-INCH 10-FT EACH	SPV.0060.32 POSTS ROUND TUBULAR STEEL 2-INCH 12-FT EACH	SPV.0060.33 POSTS ROUND TUBULAR STEEL 2-INCH 14-FT EACH	SPV.0060.34 POSTS ROUND TUBULAR STEEL 2-INCH 16-FT EACH	SPV.0060.35 PRECAST SIGN POST BASE EACH	REMARKS
0010	6-6	79+11 SF	LT	R5-1	DO NOT ENTER	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
(CON'T)	6-7	79+11 SF	LT	R4-7	KEEP RIGHT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	6-8	79+70 SF	LT	R3-17	BIKE LANE (BIKE SYMBOL)	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	6-9	80+09 SF	LT	W1-6	NIGHT ARROW (SINGLE)	---	---	---	---	---	---	---	---	---	---	2	---	---	---	2	
	6-10	80+66 SF	LT	R5-1	DO NOT ENTER	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	6-11	80+78 SF	RT	R5-1	DO NOT ENTER	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	6-12	80+66 SF	LT	R1-1	STOP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 6-10
	6-13	80+69 SF	LT	R4-8	KEEP LEFT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	6-14	80+69 SF	LT	R1-1	STOP	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 6-13
	6-15	81+08 SF	LT	R5-57	PEDESTRIANS ETC, PROHIBITED	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	6-16	87+04 SF	LT	R7-1D	NO PARKING ANYTIME (DOUBLE ARROW)	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	6-17	83+50 SF	RT	R7-1D	NO PARKING ANYTIME (DOUBLE ARROW)	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	6-18	83+98 SF	LT	W3-1	STOP AHEAD	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	6-19	1187+00	RT	E6-1	ADVANCED EXIT GUIDE SIGN (OVERHEAD), 1/3 MILE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON S-13-376
	6-19	1187+00	RT	E1-5P	EXIT NUMBER PANEL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON S-13-376
	6-20	89+28 SF	LT	R3-17	BIKE LANE (BIKE SYMBOL)	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	6-21	75+00 SF	RT	D1-2	DESTINATION W/ ARROW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 6-1
	6-22	1175+10	RT	W4-1	MERGING TRAFFIC SYMBOL (RIGHT)	---	---	---	---	2	---	---	---	---	---	---	---	---	---	---	
	6-23	82+49 SF	LT	W4-2R	LANE REDUCTION TRANSITION SYMBOL (RIGHT)	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	
	6-24	1187+00	RT	W9-62	THIS LANE ENDS WITH ARROW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON S-13-376
	6-25	89+75 SF	RT	R2-1	SPEED LIMIT 30 MPH	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	6-26	87+75 SF	RT	R3-17	BIKE LANE (BIKE SYMBOL)	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	7-1	1195+15	RT	R2-1	SPEED LIMIT 55 MPH	---	---	---	1	1	---	---	---	---	---	---	---	---	---	---	
	7-2	1190+65	RT	J4-4	DIRECTIONAL ASSEMBLY	---	---	---	3	---	---	---	---	---	---	---	---	---	---	---	
	7-3	1200+59	RT	E6-1	EXIT DIRECTION SIGN (OVERHEAD)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON EXISTING SIGN STRUCTURE
	7-3	1200+59	RT	E1-5P	EXIT NUMBER PANEL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON EXISTING SIGN STRUCTURE
	8-1	51+52 WW	RT	D11-1	BIKE ROUTE	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	8-2	51+52 WW	RT	M7-1R	ARROW RIGHT (BICYCLE ROUTE)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 8-1
	8-3	50+44 WW	RT	W1-1L	LEFT TURN	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	8-4	50+44 WW	RT	W13-1	ADVISORY SPEED PLATE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 8-3
	8-5	51+52 WW	RT	D11-1	BIKE ROUTE	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	8-6	51+52 WW	RT	M7-1L	ARROW LEFT (BICYCLE ROUTE)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 8-5
	8-7	51+93 WW	RT	W1-6L	NIGHT ARROW (SINGLE)	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	8-8	51+93 WW	RT	W1-6R	NIGHT ARROW (SINGLE)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 8-7
	8-9	53+70 WW	LT	W1-1R	RIGHT TURN	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	8-10	53+70 WW	LT	W13-1	ADVISORY SPEED PLATE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 8-9
	8-11	51+58 WW	RT	W11-2	PEDESTRIAN CROSSING	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	8-12	51+58 WW	RT	W16-7L	LEFT DIAGONAL DOWNWARD POINTING ARROW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 8-11
	8-13	51+75 WW	LT	W11-2	PEDESTRIAN CROSSING	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	8-14	51+75 WW	LT	W16-7L	LEFT DIAGONAL DOWNWARD POINTING ARROW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 8-13
	8-15	52+80 WW	LT	W11-2	PEDESTRIAN CROSSING	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	8-16	52+80 WW	LT	W16-9P	AHEAD PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 8-15
	37-01	12+50 FP	LT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	37-02	12+41 FP	RT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	37M-01	12+55FP	LT	---	ARROW	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	37M-02	12+55FP	LT	---	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 37M-01
	37M-03	12+55FP	LT	---	ARROW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 37M-01
	37M-04	12+55FP	LT	---	NO STOPPING, STANDING, OR PARKING	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 37M-01
	37M-05	10+75TL	LT	---	ARROW	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	37M-06	10+75TL	LT	---	NO TRESPASSING STATE OF WIS-OWNER	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	37M-07	10+75TL	LT	---	NO TRESPASSING STATE OF WIS-OWNER	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	37-03	13+23 FP	RT	W1-1R	RIGHT TURN	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	
	SHEET TOTALS (0010)					0	1	0	6	3	0	0	0	0	0	20	5	3	1	29	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CON'T ON NEXT PAGE

PERMANENT SIGNING SUPPORT SUMMARY (CON'T)

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	634.0612 POSTS WOOD 4x6-INCH × 12-FT EACH	634.0614 POSTS WOOD 4x6-INCH × 14-FT EACH	*634.0616 POSTS WOOD 4x6-INCH × 16-FT EACH	*634.0618 POSTS WOOD 4x6-INCH × 18-FT EACH	*634.0620 POSTS WOOD 4x6-INCH × 20-FT EACH	634.0622 POSTS WOOD 4x6-INCH × 22-FT EACH	634.0810 POSTS TUBULAR STEEL 2x2-INCH × 10-FT EACH	634.0812 POSTS TUBULAR STEEL 2x2-INCH × 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2x2-INCH × 14-FT EACH	SPV.0060.06 POSTS GALVANIZED STEEL FOR BARRIER WALL EACH	SPV.0060.31 POSTS ROUND TUBULAR STEEL 2-INCH 10-FT EACH	SPV.0060.32 POSTS ROUND TUBULAR STEEL 2-INCH 12-FT EACH	SPV.0060.33 POSTS ROUND TUBULAR STEEL 2-INCH 14-FT EACH	SPV.0060.34 POSTS ROUND TUBULAR STEEL 2-INCH 16-FT EACH	SPV.0060.35 PRECAST SIGN POST BASE EACH	REMARKS
0010	37-04	13+23 FP	RT	W13-1	ADVISORY SPEED 15 MPH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUTED ON SAME POST AS 37-03
(CON'T)	37-05	10+29 TL	LT	R1-1	STOP SIGN	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	37-06	10+81 TL	RT	R1-1	STOP SIGN	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	37-07	14+10 FP	LT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
	37-08	14+36 FP	LT	W1-8	ARROW LEFT	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	37-09	14+47 FP	LT	W1-8	ARROW LEFT	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	37-10	14+58 FP	LT	W1-6	ARROW RIGHT	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	37-11	14+61 FP	LT	W1-8	ARROW LEFT	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	37-12	14+66 FP	LT	W1-6	ARROW RIGHT	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	37-13	14+71 FP	LT	W1-8	ARROW LEFT	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	37-14	14+83 FP	LT	W1-1L	LEFT TURN	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	
	37-15	14+83 FP	LT	W13-1	ADVISORY SPEED 15 MPH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 37-14
	37-16	15+17 FP	LT/RT	R4-7	KEEP RIGHT SYMBOL	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	37-17	15+05FP	RT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	37-18	15+38FP	LT	W5-52R	OBJECT MARKER	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	37-19	15+57FP	LT	W5-52R	OBJECT MARKER	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	38-01	17+21 FP	RT	W1-2R	CURVE ARROW RIGHT	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	
	38-02	17+21 FP	RT	W13-1	ADVISORY SPEED 15 MPH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 38-01
	38-03	17+10 FP	LT/RT	R4-7	KEEP RIGHT SYMBOL	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	
	38-04	19+10 FP	RT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	38-05	18+57 FP	LT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	38-06	19+47 FP	LT	W1-2L	CURVE ARROW LEFT	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	
	38-07	19+47 FP	LT	W13-1	ADVISORY SPEED 15 MPH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED ON SAME POST AS 38-06
	38-08	94+39 EE	RT	R1-1	STOP SIGN	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	38M-01	21+20FP	RT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	39-01	18+99 BP	LT	-	CITY OF MADISON - MADISON METRO BUS STOP SIGN	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	39-02	18+83 BP	RT	-	CITY OF MADISON - MADISON METRO BUS STOP SIGN	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	39-03	19+73 BP	RT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	E35-1	978+50 VR	LT	W3-3	SIGNAL AHEAD	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	
	E35-2	980+53 VR	LT	R10-64	NO ENGINE BRAKING	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	
	36-1	85+00 WN	RT	W11-2	PEDESTRIAN CROSSING	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	36-2	85+00 WN	RT	W16-17L	LEFT DIAGONAL DOWNWARD POINTING ARROW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 36-1
	36-3	85+10 WN	LT	W11-2	PEDESTRIAN CROSSING	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	36-4	85+10 WN	LT	W16-17L	LEFT DIAGONAL DOWNWARD POINTING ARROW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 36-3
	SHEET TOTALS (0010)					0	0	0	0	2	0	0	0	0	0	0	10	13	3	26	
	TOTALS(0010)					0	1	5	15	8	6	1	1	2	1	22	19	19	4	70	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

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PERMANENT SIGNING SUPPORT SUMMARY (CON'T)

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	634.0612 POSTS WOOD 4x6-INCH × 12-FT EACH	634.0614 POSTS WOOD 4x6-INCH × 14-FT EACH	*634.0616 POSTS WOOD 4x6-INCH × 16-FT EACH	*634.0618 POSTS WOOD 4x6-INCH × 18-FT EACH	*634.0620 POSTS WOOD 4x6-INCH × 20-FT EACH	634.0622 POSTS WOOD 4x6-INCH × 22-FT EACH	634.0810 POSTS TUBULAR STEEL 2x2-INCH × 10-FT EACH	634.0812 POSTS TUBULAR STEEL 2x2-INCH × 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2x2-INCH × 14-FT EACH	SPV.0060.06 POSTS GALVANIZED STEEL FOR BARRIER WALL EACH	SPV.0060.31 POSTS ROUND TUBULAR STEEL 2-INCH 10-FT EACH	SPV.0060.32 POSTS ROUND TUBULAR STEEL 2-INCH 12-FT EACH	SPV.0060.33 POSTS ROUND TUBULAR STEEL 2-INCH 14-FT EACH	SPV.0060.34 POSTS ROUND TUBULAR STEEL 2-INCH 16-FT EACH	SPV.0060.35 PRECAST SIGN POST BASE EACH	REMARKS
0020	9-1	95+50 PB	RT	W3-3	SIGNAL AHEAD	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	
	9-2	97+10 PB	LT	M1-5A	COUNTY PB	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10-1	99+00 PB	RT	R5-1	DO NOT ENTER	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10-2	99+50 PB	RT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	10-3	99+50 PB	RT	J13-1	COUNTY M W/ DOUBLE ARROW	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	10-4	99+50 PB	LT	R4-7	KEEP RIGHT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	10-5	99+50 MPB	RT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	10-6	100+50 MPB	LT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	10-7	100+50 PB	RT	R4-7	KEEP RIGHT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	10-8	100+50 PB	LT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	10-9	100+50 PB	LT	J13-1	COUNTY M W/ DOUBLE ARROW	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	10-10	101+00 PB	LT	R5-1	DO NOT ENTER	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10-11	101+50 PB	RT	M1-5A	COUNTY PB	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10-12	98+00 MPB	LT	M1-5A	COUNTY M	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	10-13	99+24 MPB	RT	R1-2	YIELD	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10-14	100+73 MPB	LT	R1-2	YIELD	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10-15	99+50 MPB	RT	J13-1	COUNTY PB W/ DOUBLE ARROW	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10-16	100+50 MPB	LT	J13-2	COUNTY PB W/ DOUBLE ARROW	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	11-1	104+60 PB	LT	W3-3	SIGNAL AHEAD	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	
	11-2	105+75 PB	LT	R3-20L	BEGIN LEFT TURN LANE W/ DOWN ARROW	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	12-1	95+50 MPB	RT	W3-3	SIGNAL AHEAD	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	
	13-1	102+00 MPB	RT	M1-5A	COUNTY M	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	13-2	113+20 MPB	RT	R2-1	SPEED LIMIT 55	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	13-3	105+00 MPB	LT	W3-3	SIGNAL AHEAD	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	
	13-4	113+20 MPB	LT	R2-1	SPEED LIMIT 45	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	13-5	CTH M	LT	W3-5	SPEED LIMIT 45 AHEAD [2]ARROW[3]	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	14-1	86+80 MFH	LT	R2-1	SPEED LIMIT 55	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	14-2	86+80 MFH	RT	R2-1	SPEED LIMIT 45	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	14-3	CTH M	RT	W3-5	SPEED LIMIT 45 AHEAD [2]ARROW[3]	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	15-1	96+50 MFH	LT	I55-56	ADOPT-A-HIGHWAY, UW ENVIRONMENTAL STUDIES CLUB	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	16-1	98+50 MFH	LT	M1-5A	COUNTY M	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	16-2	99+45 MFH	RT	R1-1	STOP	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	16-3	99+45 MFH	RT	J13-1	COUNTY D W/ DOUBLE ARROW	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	
	16-4	100+60 FHM	LT	J13-1	COUNTY M W/ DOUBLE ARROW	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	
	16-5	100+60 FHM	LT	R1-1	STOP	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	16-6	99+40 FHM	RT	R1-1	STOP	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	16-7	99+40 FHM	RT	J13-1	COUNTY M W/ DOUBLE ARROW	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	
	16-8	101+25 FHM	RT	M1-5A	COUNTY D	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	16-9	100+50 MFH	LT	J13-1	COUNTY D W/ DOUBLE ARROW	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	
	16-10	100+60 FHM	RT	R1-1	STOP	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	16-11	101+75 MFH	RT	M1-5A	COUNTY M	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	16-12	99+45 FHM	LT	R1-1	STOP	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	16-13	100+70 MFH	RT	R1-1	STOP	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	16-14	100+60 MFH	LT	R1-1	STOP	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	16-15	99+40 MFH	LT	R1-1	STOP	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	16-16	99+45 MFH	RT	R1-3P	ALL WAY PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 16-2
	16-17	99+45 FHM	LT	R1-3P	ALL WAY PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 16-12
	16-18	99+40 FHM	RT	R1-3P	ALL WAY PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 16-6
	16-19	100+70 MFH	RT	R1-3P	ALL WAY PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 16-13
	16-20	100+60 MFH	LT	R1-3P	ALL WAY PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 16-14
	SHEET TOTALS (0020)					---	15	20	10	---	---	---	---	---	---	---	---	---	---	---	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

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PERMANENT SIGNING SUPPORT SUMMARY (CON'T)

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	634.0612 POSTS WOOD 4x6-INCH × 12-FT EACH	634.0614 POSTS WOOD 4x6-INCH × 14-FT EACH	*634.0616 POSTS WOOD 4x6-INCH × 16-FT EACH	*634.0618 POSTS WOOD 4x6-INCH × 18-FT EACH	*634.0620 POSTS WOOD 4x6-INCH × 20-FT EACH	634.0622 POSTS WOOD 4x6-INCH × 22-FT EACH	634.0810 POSTS TUBULAR STEEL 2x2-INCH × 10-FT EACH	634.0812 POSTS TUBULAR STEEL 2x2-INCH × 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2x2-INCH × 14-FT EACH	SPV.0060.06 POSTS GALVANIZED STEEL FOR BARRIER WALL EACH	SPV.0060.31 POSTS ROUND TUBULAR STEEL 2-INCH 10-FT EACH	SPV.0060.32 POSTS ROUND TUBULAR STEEL 2-INCH 12-FT EACH	SPV.0060.33 POSTS ROUND TUBULAR STEEL 2-INCH 14-FT EACH	SPV.0060.34 POSTS ROUND TUBULAR STEEL 2-INCH 16-FT EACH	SPV.0060.35 PRECAST SIGN POST BASE EACH	REMARKS
0020 (CON'T)	16-21	100+60 FHM	RT	R1-3P	ALL WAY PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 16-10
	16-22	100+60 FHM	LT	R1-3P	ALL WAY PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 16-5
	16-23	99+40 MFH	LT	R1-3P	ALL WAY PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 16-15
	17-1	105+50 MFH	LT	J1-1	JCT COUNTY D	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	18-1	113+20 MFH	LT	R2-1	SPEED LIMIT 45	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	18-2	FISH HATCHERY	LT	W3-5	SPEED LIMIT 45 AHEAD [2]ARROW[3]	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	18-3	113+20 MFH	RT	R2-1	SPEED LIMIT 55	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	19-1	FISH HATCHERY	RT	R2-1	SPEED LIMIT 55	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	19-2	FISH HATCHERY	RT	W3-5	SPEED LIMIT 45 AHEAD [2]ARROW[3]	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	19-3	FISH HATCHERY	LT	R2-1	SPEED LIMIT 45	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	20-1	93+15 FHM	RT	J1-1	JCT COUNTY M	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	20-2	98+50 FHM	LT	M1-5A	COUNTY D	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	20-3	98+50 FHM	LT	I55-56	ADOPT-A-HIGHWAY, COUNTRY VIEW VETERINARY SERVICE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON POST BELOW SIGN 20-2
	21-1	103+75 FHM	RT	I55-56	ADOPT-A-HIGHWAY PI KAPPA ALPHA BETA XI UW-MADISON	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	22-1	FISH HATCHERY	LT	R2-1	SPEED LIMIT 45	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	22-2	FISH HATCHERY	LT	W3-5	SPEED LIMIT 45 AHEAD [2]ARROW[3]	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	22-3	FISH HATCHERY	RT	R2-1	SPEED LIMIT 55	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	22-4	FISH HATCHERY	RT	W3-5	SPEED LIMIT 40 AHEAD [2]ARROW[3]	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	22-5	FISH HATCHERY	RT	R2-1	SPEED LIMIT 40	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	22-6	FISH HATCHERY	LT	R2-1	SPEED LIMIT 55	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	23-1	98+30 FHW	LT	R2-1	SPEED LIMIT 40	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	23-2	99+40 WFH	RT	R1-1	STOP	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	23-3	97+95 WFH	LT	R2-1	SPEED LIMIT 40	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	23-4	100+45 WFH	LT	R1-1	STOP	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	23-5	100+30 FHW	LT	R1-1	STOP	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SIGN MOUNTED AT HEIGHT OF 4 FEET FOR SHARED USE PATH
	23-6	FISH HATCHERY	RT	R2-1	SPEED LIMIT 40	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	23-7	FISH HATCHERY	LT	R2-1	SPEED LIMIT 40	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	23-8	FISH HATCHERY	RT	R2-1	SPEED LIMIT 40	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	23-9	FISH HATCHERY	LT	R2-1	SPEED LIMIT 40	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	24-1	101+50 FHW	RT	R2-1	SPEED LIMT 40	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	24-2	109+80 FHW	LT	S3-1	SCHOOL BUS STOP AHEAD	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	24-3	107+66 FHW	LT	W2-1	CROSS ROAD WARNING	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	24-4	FISH HATCHERY	LT	R2-1	SPEED LIMIT 40	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	SEE PLANS
	25-1	92+60 SL	RT	W5-52R	TYPE 3 OBJECT MARKER	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	25-2	92+60 SL	RT	W5-52L	TYPE 3 OBJECT MARKER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON POST WITH SIGN 25-1
	25-3	92+65 SL	LT	W5-52L	TYPE 3 OBJECT MARKER	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	25-4	92+65 SL	LT	W5-52R	TYPE 3 OBJECT MARKER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON POST WITH SIGN 25-3
	25-5	93+50 SL	RT	W3-1	STOP AHEAD	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	
	25-6	94+40 SL	RT	W5-52R	TYPE 3 OBJECT MARKER	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	25-7	94+40 SL	RT	W5-52L	TYPE 3 OBJECT MARKER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON POST WITH SIGN 25-6
	25-8	94+45 SL	LT	W5-52L	TYPE 3 OBJECT MARKER	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	25-9	94+45 SL	LT	W5-52R	TYPE 3 OBJECT MARKER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON POST WITH SIGN 25-8
	25-10	96+50 SL	LT	R2-1	SPEED LIMT 50	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	26-1	99+45 LR	RT	R1-1	STOP	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT SIGN E26-2 TO SAME POST
	26-2	99+45 LR	RT	R1-3P	ALL WAY PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 26-1
	26-3	100+55 LR	LT	R1-1	STOP	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	26-4	100+55 LR	LT	R1-3P	ALL WAY PLAQUE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 26-3
	26-5	102+00 SL	RT	R3-52	CURB LANE, BICYCLES AND RIGHT TURNS ONLY	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	26-6	103+50 SL	RT	R2-1	SPEED LIMIT 50	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
	26-7	105+90 SL	LT	W3-1	STOP AHEAD	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	
	SHEET TOTALS (0020)					2	11	26	7	0	0	0	0	0	0	0	0	0	0	0		

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

CON'T ON NEXT PAGE

PERMANENT SIGNING SUPPORT SUMMARY (CON'T)

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	634.0612 POSTS WOOD 4x6-INCH x 12-FT EACH	634.0614 POSTS WOOD 4x6-INCH x 14-FT EACH	*634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	*634.0618 POSTS WOOD 4x6-INCH x 18-FT EACH	*634.0620 POSTS WOOD 4x6-INCH x 20-FT EACH	634.0622 POSTS WOOD 4x6-INCH x 22-FT EACH	634.0810 POSTS TUBULAR STEEL 2x2-INCH x 10-FT EACH	634.0812 POSTS TUBULAR STEEL 2x2-INCH x 12-FT EACH	634.0814 POSTS TUBULAR STEEL 2x2-INCH x 14-FT EACH	SPV.0060.06 POSTS GALVANIZED STEEL FOR BARRIER WALL EACH	SPV.0060.31 POSTS ROUND TUBULAR STEEL 2-INCH 10-FT EACH	SPV.0060.32 POSTS ROUND TUBULAR STEEL 2-INCH 12-FT EACH	SPV.0060.33 POSTS ROUND TUBULAR STEEL 2-INCH 14-FT EACH	SPV.0060.34 POSTS ROUND TUBULAR STEEL 2-INCH 16-FT EACH	SPV.0060.35 PRECAST SIGN POST BASE EACH	REMARKS
0020	27-1	96+95 LR	LT	W11-1	BIKE CROSSING	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
(CON'T)	27-2	96+95 LR	LT	W16-7L	LEFT DIAGONAL DOWNWARD POINTING ARROW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 27-1
	27-3	97+90 LR	LT	R2-1	SPEED LIMIT 50	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	28-1	102+50 LR	RT	R2-1	SPEED LIMIT 35	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	
	28-2	102+50 LR	RT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 28-1
	29-1	99+50 SS	RT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	29-2	99+45 SP	RT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	29-3	100+35 SS	LT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	E33-2	97+65 N	LT	R7-51L	NO PARKING HERE TO CORNER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
	E33-7	100+40 N	RT	D3-1	NAKOMA RD/SEMINOLE HWY STREET SIGN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
	E33-8	99+60 N	LT	D3-1	YUMA RD/NAKOMA RD STREET SIGN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
	33-1	98+80 N	LT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	33-2	99+50 N	RT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	33-3	97+30 SN	RT	S1-1	SCHOOL	---	---	---	---	---	---	---	---	---	---	---	2	---	---	2	
	33-4	97+30 SN	RT	WF16-9P	AHEAD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 33-3
	33-5	97+30 SN	RT	R2-6P	FINES HIGHER	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT BELOW SIGN 33-4
	33-6	98+00 SN	RT	W3-3	SIGNAL AHEAD	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	
	33-7	99+70 SN	RT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	33-8	103+00 N	LT	R7-51L	NO PARKING HERE TO CORNER	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	33-9	101+40 N	LT	R7-1D	NO PARKING ANY TIME	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	33-10	100+45 N	LT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	33-11	100+40 SN	LT	R1-1F	STOP (FOLDING)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON SIGNAL POLE
	33-12	98+03 N	LT	-	CITY OF MADISON - METRO BUS STOP SIGN	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	33-13	102+85 N	RT	-	CITY OF MADISON - METRO BUS STOP SIGN	---	---	---	---	---	---	---	---	---	---	1	---	---	---	1	
	E34-1	99+25 W	RT	D3-1	WHITNEY WAY/GILBERT RD STREET SIGN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	
	34-1	102+90 W	RT	J2-2	J ASSEMBLY	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	
	34-2	96+73 W	RT	JV	TRAILBLAZER ASSEMBLY WITH CARDINAL DIRECTION	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON OVERHEAD SIGN SUPPORT S-13-424
	34-3	102+40 W	RT	D1-2	SCHROEDER RD/ W BELTLINE HWY	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT SIGN E34-3 TO SAME POST
	34-4	99+50 W	RT	J1-2	JUNCTION ASSEMBLY	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	
	34-5	102+40 W	RT	M1-94	GILBERT RD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	MOUNT ON POSTS WITH SIGN 34-3
	34-6	101+15 W	RT	J2-2	ROUTE TURN ASSEMBLY	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	
	SHEET TOTALS (0020)					0	2	9	0	0	0	0	0	0	0	5	2	1	0	12	
	TOTALS (0020)					2	28	55	17	0	0	0	0	0	0	5	2	1	0	12	
	TOTALS					2	29	60	32	8	6	1	1	2	1	27	21	20	4	82	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

PERMANENT SIGNING SUMMARY - ALTERNATE ROUTE

CATEGORY	SIGN NO.	APPROXIMATE LOCATION	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W x H) IN	*634.0616 POSTS WOOD 4x6-INCH x 16-FT EACH	*634.0618 POSTS WOOD 4x6-INCH x 18-FT EACH	*634.0620 POSTS WOOD 4x6-INCH x 20-FT EACH	*637.0202 SIGNS REFLECTIVE TYPE II SF	*637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	*638.2102 MOVING SIGNS TYPE II EACH	*638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	A 1-1	USH 18/151 EB OFF-RAMP	J2-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	---	1	---	19.00	---	---	---	
	A 1-2	SB CTH PB	J2-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 1-3	SB CTH PB	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 1-4	NB CTH PB	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 1-5	WB CTH M	J2-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 1-6	EB CTH M	JV	ALTERNATE USH 18/151	24 X 60	---	1	---	10.00	---	---	---	
	A 1-7	SB CTH PB	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 1-8	USH 18/151 EB OFF-RAMP	JV-F	ALTERNATE USH 151 W/ ARROW	24 X 57	---	---	---	---	9.50	---	---	MOUNT ON EXISTING SIGN POST; FOLD
	A 1-9	USH 18/151 EB OFF-RAMP	JV-F	ALTERNATE USH 18 W/ ARROW	24 X 57	---	---	---	---	9.50	---	---	MOUNT ON EXISTING SIGN POST; FOLD
	A 2-1	WB CTH M	JV	ALTERNATE USH 18/151	24 X 60	---	1	---	10.00	---	---	---	
	A 2-2	EB CTH M	JV	ALTERNATE USH 18/151	24 X 60	---	1	---	10.00	---	---	---	
	A 3-1	SB USH 14	J3-1	ALTERNATE USH 18 W/ ARROW	36 X 84	---	---	---	21.00	---	---	---	BAND ON EXISTING SIGN SUPPORT
	A 3-2	SB USH 14	J3-1	ALTERNATE USH 151 W/ ARROW	36 X 84	---	---	---	21.00	---	---	---	BAND ON EXISTING SIGN SUPPORT
	A 3-3	NB USH 14	JV	ALTERNATE USH 18/151	24 X 60	---	1	1	10.00	---	---	---	
	A 3-4	SB USH 14	J2-1	ALTERNATE USH 18 W/ ARROW	36 X 84	---	---	---	21.00	---	---	---	BAND ON EXISTING SIGN SUPPORT
	A 3-5	SB USH 14	J2-1	ALTERNATE USH 18 W/ ARROW	36 X 84	---	---	---	21.00	---	---	---	BAND ON EXISTING SIGN SUPPORT
	A 4-1	WB CTH M	JV	ALTERNATE USH 18/151	24 X 60	1	---	---	10.00	---	---	---	
	A 4-2	EB CTH M	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	---	---	---	19.00	---	---	---	BAND ON EXISTING SIGN BRIDGE
	A 5-1	NB CTH MM	D1-1	TO USH 14/ CTH MM W/ARROW	60 X 30	---	---	---	---	---	1	2	
	A 5-2	NB CTH MM	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 5-3	NB CTH MM	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 5-4	NB CTH MM	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 5-5	SB CTH MM	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	---	1	---	19.00	---	---	---	PROVIDE 8 FEET OF CLEARANCE UNDER SIGN
	A 5-6	SB CTH MM	D1-1	CTH MM W/ARROW	60 X 30	---	---	---	---	---	1	1	
	A 5-7	NB CTH MM	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 6-1	NB CTH MM	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	---	---	---	19.00	---	---	---	BAND ON EXISTING SIGN BRIDGE
	A 6-2	NB CTH MM	D1-2	CTH MM/ USH 14 EAST W/ARROWS	60 X 42	---	---	---	---	---	1	2	
	A 6-3	NB CTH MM	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 6-4	NB CTH MM	D1-1	USH 14 WEST/CTH MM W/ ARROW	60 X 30	---	---	---	---	---	1	2	
	A 6-5	NB CTH MM	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 6-6	NB CTH MM	J2-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	---	---	---	19.00	---	---	---	BAND ON EXISTING SIGN SUPPORT
	A 6-7	NB CTH MM	J2-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	---	---	---	19.00	---	---	---	BAND ON EXISTING SIGN SUPPORT
	A 6-8	SB CTH MM	J2-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	---	1	---	19.00	---	---	---	PROVIDE 8 FEET OF CLEARANCE UNDER SIGN
	A 7-1	NB CTH MM	D1-2	USH 14 WEST/ CTH MM W/ARROWS	60 X 42	---	---	---	---	---	1	2	
	A 7-2	NB CTH MM	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 7-3	SB CTH MM	D1-2	CTH MM/USH 14 WEST W/ARROWS	60 X 42	---	---	---	---	---	1	2	
	A 7-4	SB CTH MM	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	1	---	---	19.00	---	---	---	
	A 8-1	USH 14 EB OFF-RAMP	J3-2	ALTERNATE USH 18/151; USE RIGHT LANE	48 X 60	---	2	---	20.00	---	---	---	
	A 8-2	USH 14 EB OFF-RAMP	J3-1	ALTERNATE USH 18 W/ ARROW	24 X 57	---	---	---	9.50	---	---	---	MOUNT ON EXISTING SIGN POST
	A 8-3	USH 14 EB OFF-RAMP	J3-1	ALTERNATE USH 151 W/ ARROW	24 X 57	---	---	---	9.50	---	---	---	MOUNT ON EXISTING SIGN POST
	A 8-4	USH 14 EB OFF-RAMP	J3-2	ALTERNATE USH 18/151; USE RIGHT LANE	48 X 60	2	---	---	20.00	---	---	---	
	A 8-5	USH 14 EB OFF-RAMP	J3-2	ALTERNATE USH 18/151; USE RIGHT LANE	48 X 60	2	---	---	20.00	---	---	---	
	A 8-6	USH 14 EB OFF-RAMP	J3-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 57	---	---	---	19.00	---	---	---	BAND ON EXISTING SIGN BRIDGE
	A 9-1	SB USH 14	J2-2	ALTERNATE USH 18/151 W/ ARROWS	48 X 69	---	2	---	23.00	---	---	---	
	A 9-2	SB USH 14	J4-2	ALTERNATE USH 18/151	24 X 60	---	---	1	10.00	---	---	---	
	A 9-3	NB USH 14	J4-2	ALTERNATE USH 18/151	24 X 60	---	---	1	10.00	---	---	---	
	A 9-4	SB USH 14	JV	ALTERNATE USH 18/151	24 X 60	---	---	1	10.00	---	---	---	
	A 9-5	SB USH 14/151	JV-F	ALTERNATE USH 18/151 W/ ARROWS	48 X 69	---	2	---	---	23.00	---	---	
	A 9-6	SB USH 14/151	J3-2	ALTERNATE USH 18/SOUTH 151 W/ ARROWS	48 X 69	---	2	---	23.00	---	---	---	
	A 9-7	USH 12/18 WB OFF-RAMP	J2-2	ALTERNATE USH 18/SOUTH 151 W/ ARROWS	48 X 69	---	---	2	23.00	---	---	---	
	A 9-8	USH 12/18 WB OFF-RAMP	JV-F	ALTERNATE USH 18 W/ ARROW	24 X 57	---	1	---	---	9.50	---	---	
	TOTALS					18	16	6	711.00	51.50	6	11	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

PERMANENT SIGNING SUMMARY

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W x H) IN	637.0101 SIGNS REFLECTIVE SIGNS TYPE I SF	*637.0202 SIGNS REFLECTIVE TYPE II SF	*637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	0-1	997+40	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	---	
	0-2	997+40	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	0-1	
	0-3	1007+09	LT	E7-2	OVERHEAD ARROW PER LANE GUIDE SIGN (2 ARROWS)	360 x 144	360.00	---	---	---	S-13-0384
	0-3	1007+09	LT	E1-5P	EXIT NUMBER PANEL	132 x 30	27.50	---	---	---	S-13-0384
	0-4	1007+80	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	---	
	0-5	1007+80	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	0-4	
	0-6	1018+30	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	---	
	0-7	1018+30	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	0-6	
	1-1	1029+50	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	---	
	1-2	1029+50	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	1-1	
	1-3	1030+00	LT	E7-2	OVERHEAD ARROW PER LANE GUIDE SIGN (2 ARROWS)	360 x 144	360.00	---	---	---	S-13-0395
	1-3	1030+00	LT	E1-5P	EXIT NUMBER PANEL	132 x 30	27.50	---	---	---	S-13-0395
	1-4	1038+39	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	---	
	1-5	1038+39	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	1-4	
	1-6	1035+22	RT	R3-4B	NO U-TURN W/ MAINT. AND POLICE VEH.	36 x 48	---	12.00	---	---	
	1-7	1035+22	RT	R3-4B	NO U-TURN W/ MAINT. AND POLICE VEH.	36 x 48	---	12.00	---	1-6	
	2-1	1049+07	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	---	
	2-2	1049+07	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	2-1	
	2-3	1054+50	LT	E7-2	OVERHEAD ARROW PER LANE GUIDE SIGN (2 ARROWS)	360 x 144	360.00	---	---	---	S-13-0394
	2-3	1054+50	LT	E1-5P	EXIT NUMBER PANEL	132 x 30	27.50	---	---	---	S-13-0394
	3-1	1059+59	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	---	
	3-2	1059+59	RT	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	3-1	
	3-3	1060+00	LT	R2-1	SPEED LIMIT 55 MPH	48 x 60	---	20.00	---	---	
	3-4	1065+00	LT	J4-2	REASSURANCE ASSEMBLY	72 x 54	---	27.00	---	---	
	4-1	1070+89	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	---	
	4-2	1070+89	---	D10-5	ENHANCED REFERENCE MARKER (1 SHIELD)	21 x 60	---	8.75	---	4-1	
	4-3	74+15 L	LT	J4-1	DIRECTIONAL ASSEMBLY	24 x 60	---	10.00	---	---	
	4-4	75+76 L	LT	R5-57	PEDESTRIANS ETC, PROHIBITED	36 x 36	---	9.00	---	---	
	4-5	1077+00	LT	W4-1	MERGING TRAFFIC SYMBOL (RIGHT)	36 x 36	---	9.00	---	---	
	4-6	1074+75	LT	I55-56	ADOPT A HIGHWAY SPONSOR	30 x 36	---	7.50	---	---	
	5-1	74+64 SF	LT	R5-1	DO NOT ENTER	30 x 30	---	6.25	---	---	
	5-2	74+69 SF	LT	R4-7	KEEP RIGHT	24 x 30	---	5.00	---	---	
	5-3	73+00 SF	RT	W6-3	TWO WAY TRAFFIC SYMBOL	36 x 36	---	9.00	---	---	
	5-4	72+40 SF	LT	R2-1	SPEED LIMIT 30 MPH	24 x 30	---	5.00	---	---	
	5-5	57+10 WW	RT	D9-54	FIRE HYDRANT IDENTIFICATION SIGN	18 x 24	---	---	---	---	MOUNT ON NOISE BARRIER [1]
	5-6	57+10 WW	RT	D9-54	FIRE HYDRANT IDENTIFICATION SIGN	18 x 24	---	---	---	---	MOUNT ON NOISE BARRIER [1]
	5-7	57+10 WW	RT	D9-54A	FIRE HYDRANT SYMBOL	18 x 18	---	---	---	---	DOUBLE SIDED SIGN; MOUNT ON NOISE BARRIER [1]
	5-8	57+10 WW	RT	D9-54A	FIRE HYDRANT SYMBOL	18 x 18	---	---	---	---	DOUBLE SIDED SIGN; MOUNT ON NOISE BARRIER [1]
	5-9	60+15 WW	RT	D9-54	FIRE HYDRANT IDENTIFICATION SIGN	18 x 24	---	---	---	---	MOUNT ON NOISE BARRIER [1]
	5-10	60+15 WW	RT	D9-54	FIRE HYDRANT IDENTIFICATION SIGN	18 x 24	---	---	---	---	MOUNT ON NOISE BARRIER [1]
	5-11	60+15 WW	RT	D9-54A	FIRE HYDRANT SYMBOL	18 x 18	---	---	---	---	DOUBLE SIDED SIGN; MOUNT ON NOISE BARRIER [1]
	5-12	60+15 WW	RT	D9-54A	FIRE HYDRANT SYMBOL	18 x 18	---	---	---	---	DOUBLE SIDED SIGN; MOUNT ON NOISE BARRIER [1]
	6-1	75+00 SF	RT	D1-2	DESTINATION W/ ARROW	84 x 36	---	21.00	---	---	
	6-2	78+03 SF	LT	W3-3	SIGNAL AHEAD	36 x 36	---	9.00	---	---	
	6-3	76+30 SF	RT	D1-2	DESTINATION W/ ARROW	84 x 36	---	21.00	---	---	EXISTING SIGN STRUCTURE AT 76+30 SF
	6-4	76+30 SF	RT	D1-2	DESTINATION W/ ARROW	84 x 36	---	21.00	---	---	EXISTING SIGN STRUCTURE AT 76+30 SF
	6-5	75+44 SF	LT	W12-1D	DOUBLE DOWN ARROWS	24 x 24	---	4.00	---	---	
	6-6	79+11 SF	LT	R5-1	DO NOT ENTER	30 x 30	---	6.25	---	---	
	SHEET TOTALS (0010)						1,162.50	354.00	0.00		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

[1] PAID FOR UNDER THE "NOISE BARRIERS DOUBLE-SIDED SOUND ABSORBTIVE N-13-0002" ITEM.

CON'T ON NEXT PAGE

PERMANENT SIGNING SUMMARY (CON'T)

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W x H) IN	*637.0101 SIGNS REFLECTIVE SIGNS TYPE I SF	*637.0202 SIGNS REFLECTIVE TYPE II SF	*637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	SIGN MOUNTED ON SAME POST AS	REMARKS
0010 (CONT.)	6-7	79+11 SF	LT	R4-7	KEEP RIGHT	24 x 30	---	5.00	---	---	
	6-8	79+70 SF	LT	R3-17	BIKE LANE (BIKE SYMBOL)	30 x 24	---	5.00	---	---	
	6-9	80+09 SF	LT	W1-6	NIGHT ARROW (SINGLE)	48 x 24	---	8.00	---	---	
	6-10	80+66 SF	LT	R5-1	DO NOT ENTER	30 x 30	---	6.25	---	---	
	6-11	80+78 SF	RT	R5-1	DO NOT ENTER	30 x 30	---	6.25	---	---	
	6-12	80+66 SF	LT	R1-1	STOP	36 x 36	---	7.46	---	6-10	
	6-13	80+69 SF	LT	R4-8	KEEP LEFT	24 x 30	---	5.00	---	6-14	
	6-14	80+69 SF	LT	R1-1	STOP	36 x 36	---	7.46	---	---	
	6-15	81+08 SF	LT	R5-57	PEDESTRIANS ETC. PROHIBITED	36 x 36	---	9.00	---	---	
	6-16	87+04 SF	LT	R7-1D	NO PARKING ANYTIME (DOUBLE ARROW)	18 x 24	---	3.00	---	---	
	6-17	83+50 SF	RT	R7-1D	NO PARKING ANYTIME (DOUBLE ARROW)	18 x 24	---	3.00	---	---	
	6-18	83+98 SF	LT	W3-1	STOP AHEAD	36 x 36	---	9.00	---	---	
	6-19	1187+00	RT	E6-1	ADVANCED EXIT GUIDE SIGN (OVERHEAD), 1/3 MILE	180 x 102	127.50	---	---	---	S-13-0376
	6-19	1187+00	RT	E1-5P	EXIT NUMBER PANEL	120 x 30	25.00	---	---	---	S-13-0376
	6-20	89+28 SF	LT	R3-17	BIKE LANE (BIKE SYMBOL)	30 x 24	---	5.00	---	---	
	6-21	75+00 SF	RT	D1-2	DESTINATION W/ ARROW	84 x 36	---	21.00	---	6-1	
	6-22	1175+10	RT	W4-1	MERGING TRAFFIC SYMBOL (RIGHT)	48 x 48	---	16.00	---	---	
	6-23	82+49 SF	LT	W4-2R	LANE REDUCTION TRANSITION SYMBOL (RIGHT)	36 x 36	---	9.00	---	---	
	6-24	1187+00	RT	W9-62	THIS LANE ENDS WITH ARROW	72 x 90	45.00	---	---	6-19	S-13-0376
	6-25	89+75 SF	RT	R2-1	SPEED LIMIT 30 MPH	24 x 30	---	5.00	---	---	
	6-26	87+75 SF	RT	R3-17	BIKE LANE (BIKE SYMBOL)	30 x 24	---	5.00	---	---	
	7-1	1195+15	RT	R2-1	SPEED LIMIT 55 MPH	48 x 60	---	20.00	---	---	
	7-2	1190+65	RT	J4-4	DIRECTIONAL ASSEMBLY	144 x 54	---	54.00	---	---	
	7-3	1200+59	RT	E6-1	EXIT DIRECTION SIGN (OVERHEAD)	168 x 78	91.00	---	---	---	EXISTING STRUCTURE S-13-220
	7-3	1200+59	RT	E1-5P	EXIT NUMBER PANEL	120 x 30	25.00	---	---	---	EXISTING STRUCTURE S-13-220
	8-1	51+52 WW	RT	D11-1	BIKE ROUTE	24 x 18	---	3.00	---	---	
	8-2	51+52 WW	RT	M7-1R	ARROW RIGHT (BICYCLE ROUTE)	12 x 9	---	0.75	---	8-1	
	8-3	50+44 WW	RT	W1-1L	LEFT TURN	24 x 24	---	4.00	---	---	
	8-4	50+44 WW	RT	W13-1	ADVISORY SPEED PLATE	18 x 18	---	2.25	---	8-3	
	8-5	51+52 WW	RT	D11-1	BIKE ROUTE	24 x 18	---	3.00	---	8-1	
	8-6	51+52 WW	RT	M7-1L	ARROW LEFT (BICYCLE ROUTE)	12 x 9	---	0.75	---	8-1	
	8-7	51+93 WW	RT	W1-6L	NIGHT ARROW (SINGLE)	36 x 18	---	4.50	---	---	
	8-8	51+93 WW	RT	W1-6R	NIGHT ARROW (SINGLE)	36 x 18	---	4.50	---	8-7	
	8-9	53+70 WW	LT	W1-1R	RIGHT TURN	24 x 24	---	4.00	---	---	
	8-10	53+70 WW	LT	W13-1	ADVISORY SPEED PLATE	18 x 18	---	2.25	---	8-9	
	8-11	51+58 WW	RT	W11-2	PEDESTRIAN CROSSING	24 x 24	---	4.00	---	---	
	8-12	51+58 WW	RT	W16-7L	LEFT DIAGONAL DOWNWARD POINTING ARROW	24 x 12	---	2.00	---	8-11	
	8-13	51+75 WW	LT	W11-2	PEDESTRIAN CROSSING	24 x 24	---	4.00	---	---	
	8-14	51+75 WW	LT	W16-7L	LEFT DIAGONAL DOWNWARD POINTING ARROW	24 x 12	---	2.00	---	8-13	
	8-15	52+80 WW	LT	W11-2	PEDESTRIAN CROSSING	24 x 24	---	4.00	---	---	
	8-16	52+80 WW	LT	W16-9P	AHEAD PLAQUE	24 x 8	---	1.33	---	8-15	
	37-01	12+50 FP	LT	R7-1D	NO PARKING ANY TIME	18 x 24	---	3.00	---	---	
	37-02	12+41 FP	RT	R7-1D	NO PARKING ANY TIME	18 x 24	---	3.00	---	---	
	37-03	13+23 FP	RT	W1-1R	RIGHT TURN	36 x 36	---	9.00	---	---	
	37-04	13+23 FP	RT	W13-1	ADVISORY SPEED 15 MPH	18 x 18	---	2.25	---	37-03	
	37-05	10+29 TL	LT	R1-1	STOP SIGN	30 x 30	---	5.18	---	---	
	37-06	10+81 TL	RT	R1-1	STOP SIGN	30 x 30	---	5.18	---	---	
	SHEET TOTALS (0010)						313.50	283.36	0.00		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

CON'T ON NEXT PAGE

PERMANENT SIGNING SUMMARY (CON'T)

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W x H) IN	*637.0101 SIGNS REFLECTIVE SIGNS TYPE I SF	*637.0202 SIGNS REFLECTIVE TYPE II SF	*637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	SIGN MOUNTED ON SAME POST AS	REMARKS
0010	37-07	14+10 FP	LT	R7-1D	NO PARKING ANY TIME	18 x 24	---	3.00	---	---	
(CONT.)	37-08	14+36 FP	LT	W1-8	ARROW LEFT	18 x 24	---	3.00	---	---	
	37-09	14+47 FP	LT	W1-8	ARROW LEFT	18 x 24	---	3.00	---	---	
	37-10	14+58 FP	LT	W1-6	ARROW RIGHT	48 x 24	---	8.00	---	---	
	37-11	14+61 FP	LT	W1-8	ARROW LEFT	18 x 24	---	3.00	---	---	
	37-12	14+66 FP	LT	W1-6	ARROW LEFT	48 x 24	---	8.00	---	---	
	37-13	14+71 FP	LT	W1-8	ARROW LEFT	18 x 24	---	3.00	---	---	
	37-14	14+83 FP	LT	W1-1L	LEFT TURN	36 x 36	---	9.00	---	---	
	37-15	14+83 FP	LT	W13-1	ADVISORY SPEED 15 MPH	18 x 18	---	2.25	---	37-14	
	37-16	15+17 FP	LT/RT	R4-7	KEEP RIGHT SYMBOL	24 x 30	---	5.00	---	---	
	37-17	15+05FP	RT	R7-1D	NO PARKING ANY TIME	18 x 24	---	3.00	---	---	
	37-18	15+38FP	LT	W5-52R	OBJECT MARKER	12 x 36	---	3.00	---	---	
	37-19	15+57FP	LT	W5-52R	OBJECT MARKER	12 x 36	---	3.00	---	---	
	38-01	17+21 FP	RT	W1-2R	CURVE ARROW RIGHT	30 x 30	---	6.25	---	---	
	38-02	17+21 FP	RT	W13-1	ADVISORY SPEED 15 MPH	18 x 18	---	2.25	---	38-01	
	38-03	17+10 FP	LT/RT	R4-7	KEEP RIGHT SYMBOL	24 x 30	---	5.00	---	---	
	38-04	19+10 FP	RT	R7-1D	NO PARKING ANY TIME	18 x 24	---	3.00	---	---	
	38-05	18+57 FP	LT	R7-1D	NO PARKING ANY TIME	18 x 24	---	3.00	---	---	
	38-06	19+47 FP	LT	W1-2L	CURVE ARROW LEFT	30 x 30	---	6.25	---	---	
	38-07	19+47 FP	LT	W13-1	ADVISORY SPEED 15 MPH	18 x 18	---	2.25	---	38-06	
	38-08	94+39 EE	RT	R1-1	STOP SIGN	30 x 30	---	5.18	---	---	
	39-01	18+99 BP	LT	-	CITY OF MADISON - MADISON METRO BUS STOP SIGN	18 x 24	---	---	---	---	SIGN INSTALLED BY OTHERS
	39-02	18+83 BP	RT	-	CITY OF MADISON - MADISON METRO BUS STOP SIGN	18 x 24	---	---	---	---	SIGN INSTALLED BY OTHERS
	39-03	19+73 BP	RT	R7-1D	NO PARKING ANY TIME	18 x 24	---	3.00	---	---	
	36-1	85+00 WN	RT	W11-2	PEDESTRIAN CROSSING	30 x 30	---	6.25	---	---	
	36-2	85+00 WN	RT	W16-7L	LEFT DIAGONAL DOWNWARD POINTING ARROW	24 X 12	---	2.00	---	36-1	
	36-3	85+10 WN	LT	W11-2	PEDESTRIAN CROSSING	30 X 30	---	6.25	---	---	
	36-4	85+10 WN	LT	W16-7L	LEFT DIAGONAL DOWNWARD POINTING ARROW	24 X 12	---	2.00	---	36-3	
	SHEET TOTALS (0010)						0.00	108.93	0.00		
	TOTALS (0010)						1,476.00	746.29	0.00		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

CON'T ON NEXT PAGE

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\030253_mq.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 43

PERMANENT SIGNING SUMMARY (CON'T)

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W x H) IN	*637.0101 SIGNS REFLECTIVE SIGNS TYPE I SF	*637.0202 SIGNS REFLECTIVE TYPE II SF	*637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	SIGN MOUNTED ON SAME POST AS	REMARKS
0020	9-1	95+50 PB	RT	W3-3	SIGNAL AHEAD	36 X 36	---	9.00	---	---	
	9-2	97+10 PB	LT	M1-5A	COUNTY PB	24 X 24	---	4.00	---	---	
	10-1	99+00 PB	RT	R5-1	DO NOT ENTER	30 x 30	---	6.25	---	---	
	10-2	99+50 PB	RT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	10-3	99+50 PB	RT	J13-1	COUNTY M W/ DOUBLE ARROW	24 X 45	---	7.50	---	---	
	10-4	99+50 PB	LT	R4-7	KEEP RIGHT	24 X 30	---	5.00	---	---	MOUNT ON SIGNAL POLE
	10-5	99+50 MPB	RT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	10-6	100+50 MPB	LT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	10-7	100+50 PB	RT	R4-7	KEEP RIGHT	24 X 30	---	5.00	---	---	MOUNT ON SIGNAL POLE
	10-8	100+50 PB	LT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	10-9	100+50 PB	LT	J13-1	COUNTY M W/ DOUBLE ARROW	24 X 45	---	7.50	---	---	
	10-10	101+00 PB	LT	R5-1	DO NOT ENTER	30 X 30	---	6.25	---	---	
	10-11	101+50 PB	RT	M1-5A	COUNTY PB	24 X 24	---	4.00	---	---	
	10-12	98+00 MPB	LT	M1-5A	COUNTY M	24 X 24	---	4.00	---	---	
	10-13	99+24 MPB	RT	R1-2	YIELD	36 X 31	---	3.88	---	---	
	10-14	100+73 MPB	LT	R1-2	YIELD	36 X 31	---	3.88	---	---	
	10-15	99+50 MPB	RT	J13-1	COUNTY PB W/ DOUBLE ARROW	24 X 45	---	7.50	---	---	
	10-16	100+50 MPB	LT	J13-1	COUNTY PB W/ DOUBLE ARROW	24 X 45	---	7.50	---	---	
	11-1	104+60 PB	LT	W3-3	SIGNAL AHEAD	36 X 36	---	9.00	---	---	
	11-2	105+75 PB	LT	R3-20L	BEGIN LEFT TURN LANE W/ DOWN ARROW	24 X 36	---	6.00	---	---	
	12-1	95+50 MPB	RT	W3-3	SIGNAL AHEAD	36 X 36	---	9.00	---	---	
	13-1	102+00 MPB	RT	M1-5A	COUNTY M	24 X 24	---	4.00	---	---	
	13-2	113+20 MPB	RT	R2-1	SPEED LIMIT 55	24 X 30	---	5.00	---	---	
	13-3	105+00 MPB	LT	W3-3	SIGNAL AHEAD	36 X 36	---	9.00	---	---	
	13-4	113+20 MPB	LT	R2-1	SPEED LIMIT 45	24 X 30	---	5.00	---	---	
	13-5	CTH M	LT	W3-5	SPEED LIMIT 45 AHEAD (ARROW)	36 X 36	---	9.00	---	---	SEE PLANS
	14-1	86+80 MFH	LT	R2-1	SPEED LIMIT 55	24 X 30	---	5.00	---	---	
	14-2	86+80 MFH	RT	R2-1	SPEED LIMIT 45	24 X 30	---	5.00	---	---	
	14-3	CTH M	RT	W3-5	SPEED LIMIT 45 AHEAD (ARROW)	36 X 36	---	9.00	---	---	SEE PLANS
	15-1	96+50 MFH	LT	I55-56	ADOPT-A-HIGHWAY, UW ENVIRONMENTAL STUDIES CLUB	30 X 36	---	7.50	---	---	
	16-1	98+50 MFH	LT	M1-5A	COUNTY M	24 X 24	---	4.00	---	---	
	16-2	99+45 MFH	RT	R1-1	STOP	36 X 36	---	7.46	---	---	
	16-3	99+45 MFH	RT	J13-1	COUNTY D W/ DOUBLE ARROW	24 X 45	---	7.50	---	---	
	16-4	100+60 FHM	LT	J13-1	COUNTY M W/ DOUBLE ARROW	24 X 45	---	7.50	---	---	
	16-5	100+60 FHM	LT	R1-1	STOP	36 X 36	---	7.46	---	---	
	16-6	99+40 FHM	RT	R1-1	STOP	36 X 36	---	7.46	---	---	
	16-7	99+40 FHM	RT	J13-1	COUNTY M W/ DOUBLE ARROW	24 X 45	---	7.50	---	---	
	16-8	101+25 FHM	RT	M1-5A	COUNTY D	24 X 24	---	4.00	---	---	
	16-9	100+50 MFH	LT	J13-1	COUNTY D W/ DOUBLE ARROW	24 X 45	---	7.50	---	---	
	16-10	100+60 FHM	RT	R1-1	STOP	36 X 36	---	7.46	---	---	
	16-11	101+75 MFH	RT	M1-5A	COUNTY M	24 X 24	---	4.00	---	---	
	16-12	99+45 FHM	LT	R1-1	STOP	36 X 36	---	7.46	---	---	
	16-13	100+70 MFH	RT	R1-1	STOP	36 X 36	---	7.46	---	---	
	16-14	100+60 MFH	LT	R1-1	STOP	36 X 36	---	7.46	---	---	
	16-15	99+40 MFH	LT	R1-1	STOP	36 X 36	---	7.46	---	---	
	SHEET TOTALS (0020)						0.00	265.44	20.72		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

CON'T ON NEXT PAGE

PERMANENT SIGNING SUMMARY (CON'T)

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W x H) IN	*637.0101 SIGNS REFLECTIVE SIGNS TYPE I SF	*637.0202 SIGNS REFLECTIVE TYPE II SF	*637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	SIGN MOUNTED ON SAME POST AS	REMARKS
0020 (CONT.)	16-16	99+45 MFH	RT	R1-3P	ALL WAY PLAQUE	24 X 9	---	1.50	---	16-2	
	16-17	99+45 FHM	LT	R1-3P	ALL WAY PLAQUE	24 X 9	---	1.50	---	16-12	
	16-18	99+40 FHM	RT	R1-3P	ALL WAY PLAQUE	24 X 9	---	1.50	---	16-6	
	16-19	100+70 MFH	RT	R1-3P	ALL WAY PLAQUE	24 X 9	---	1.50	---	16-13	
	16-20	100+60 MFH	LT	R1-3P	ALL WAY PLAQUE	24 X 9	---	1.50	---	16-14	
	16-21	100+60 FHM	RT	R1-3P	ALL WAY PLAQUE	24 X 9	---	1.50	---	16-10	
	16-22	100+60 FHM	LT	R1-3P	ALL WAY PLAQUE	24 X 9	---	1.50	---	16-5	
	16-23	99+40 MFH	LT	R1-3P	ALL WAY PLAQUE	24 X 9	---	1.50	---	16-15	
	17-1	105+50 MFH	LT	J1-1	JCT COUNTY D	24 X 39	---	6.50	---	---	
	18-1	113+20 MFH	LT	R2-1	SPEED LIMIT 45	24 X 30	---	5.00	---	---	
	18-2	FISH HATCHERY RD	LT	W3-5	SPEED LIMIT 45 AHEAD (ARROW)	36 X 36	---	9.00	---	---	SEE PLANS
	18-3	113+20 MFH	RT	R2-1	SPEED LIMIT 55	24 X 30	---	5.00	---	---	
	19-1	FISH HATCHERY RD	RT	R2-1	SPEED LIMIT 55	24 X 30	---	5.00	---	---	SEE PLANS
	19-2	FISH HATCHERY RD	RT	W3-5	SPEED LIMIT 45 AHEAD (ARROW)	36 X 36	---	9.00	---	---	SEE PLANS
	19-3	FISH HATCHERY RD	LT	R2-1	SPEED LIMIT 45	24 X 30	---	5.00	---	---	SEE PLANS
	20-1	93+15 FHM	RT	J1-1	JCT COUNTY M	24 X 39	---	6.50	---	---	
	20-2	98+50 FHM	LT	M1-5A	COUNTY D	24 X 24	---	4.00	---	---	
	20-3	98+50 FHM	LT	I55-56	ADOPT-A-HIGHWAY, COUNTRY VIEW VETERINARY SERVICE	30 X 36	---	7.50	---	20-2	
	21-1	103+75 FHM	RT	I55-56	ADOPT-A-HIGHWAY PI KAPPA ALPHA BETA XI UW-MADISON	30 X 36	---	7.50	---	---	
	22-1	FISH HATCHERY RD	LT	R2-1	SPEED LIMIT 45	24 X 30	---	5.00	---	---	SEE PLANS
	22-2	FISH HATCHERY RD	LT	W3-5	SPEED LIMIT 45 AHEAD (ARROW)	36 X 36	---	9.00	---	---	SEE PLANS
	22-3	FISH HATCHERY RD	RT	R2-1	SPEED LIMIT 55	24 X 30	---	5.00	---	---	SEE PLANS
	22-4	FISH HATCHERY RD	RT	W3-5	SPEED LIMIT 45 AHEAD (ARROW)	36 X 36	---	9.00	---	---	SEE PLANS
	22-5	FISH HATCHERY RD	RT	R2-1	SPEED LIMIT 40	24 X 30	---	5.00	---	---	SEE PLANS
	22-6	FISH HATCHERY RD	LT	R2-1	SPEED LIMIT 55	24 X 30	---	5.00	---	---	SEE PLANS
	23-1	98+30 FHW	LT	R2-1	SPEED LIMIT 40	24 X 30	---	5.00	---	---	
	23-2	99+40 WFH	RT	R1-1	STOP	30 X 30	---	5.18	---	---	MOUNT SIGN E23-5 TO SAME POST
	23-3	97+95 WFH	LT	R2-1	SPEED LIMIT 40	24 X 30	---	5.00	---	---	
	23-4	100+45 WFH	LT	R1-1	STOP	30 X 30	---	5.18	---	---	
	23-5	100+30 FHW	LT	R1-1	STOP	18 X 18	---	1.86	---	---	
	23-6	FISH HATCHERY RD	RT	R2-1	SPEED LIMIT 40	24 X 30	---	5.00	---	---	SEE PLANS
	23-7	FISH HATCHERY RD	LT	R2-1	SPEED LIMIT 40	24 X 30	---	5.00	---	---	SEE PLANS
	23-8	FISH HATCHERY RD	RT	R2-1	SPEED LIMIT 40	24 X 30	---	5.00	---	---	SEE PLANS
	23-9	FISH HATCHERY RD	LT	R2-1	SPEED LIMIT 40	24 X 30	---	5.00	---	---	SEE PLANS
	24-1	101+50 FHW	RT	R2-1	SPEED LIMIT 40	24 X 30	---	5.00	---	---	
	24-2	109+80 FHW	LT	S3-1	SCHOOL BUS STOP AHEAD	30 X 30	---	6.25	---	---	
	24-3	107+66 FHW	LT	W2-1	CROSS ROAD WARNING	30 X 30	---	6.25	---	---	
	24-4	FISH HATCHERY RD	LT	R2-1	SPEED LIMIT 40	24 X 30	---	5.00	---	---	SEE PLANS
	25-1	92+60 SL	RT	W5-52R	TYPE 3 OBJECT MARKER	12 X 36	---	3.00	---	---	
	25-2	92+60 SL	RT	W5-52L	TYPE 3 OBJECT MARKER	12 X 36	---	3.00	---	25-1	
	25-3	92+65 SL	LT	W5-52L	TYPE 3 OBJECT MARKER	12 X 36	---	3.00	---	---	
	25-4	92+65 SL	LT	W5-52R	TYPE 3 OBJECT MARKER	12 X 36	---	3.00	---	25-3	
	25-5	93+50 SL	RT	W3-1	STOP AHEAD	36 X 36	---	9.00	---	---	
	25-6	94+40 SL	RT	W5-52R	TYPE 3 OBJECT MARKER	12 X 36	---	3.00	---	---	
	25-7	94+40 SL	RT	W5-52L	TYPE 3 OBJECT MARKER	12 X 36	---	3.00	---	25-6	
	SHEET TOTALS (0020)						0.00	211.72	0.00		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

CON'T ON NEXT PAGE

PERMANENT SIGNING SUMMARY (CON'T)

CATEGORY	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W x H) IN	*637.0101 SIGNS REFLECTIVE SIGNS TYPE I SF	*637.0202 SIGNS REFLECTIVE TYPE II SF	*637.0402 SIGNS REFLECTIVE FOLDING TYPE II SF	SIGN MOUNTED ON SAME POST AS	REMARKS
0020	25-8	94+45 SL	LT	W5-52L	TYPE 3 OBJECT MARKER	12 X 36	---	3.00	---	---	
(CONT.)	25-9	94+45 SL	LT	W5-52R	TYPE 3 OBJECT MARKER	12 X 36	---	3.00	---	25-8	
	25-10	96+50 SL	LT	R2-1	SPEED LIMT 50	24 X 30	---	5.00	---	---	
	26-1	99+45 LR	RT	R1-1	STOP	30 X 30	---	5.18	---	---	MOUNT SIGN E26-2 TO SAME POST
	26-2	99+45 LR	RT	R1-3P	ALL WAY PLAQUE	18 X 6	---	0.75	---	26-1	
	26-3	100+55 LR	LT	R1-1	STOP	30 X 30	---	5.18	---	---	
	26-4	100+55 LR	LT	R1-3P	ALL WAY PLAQUE	18 X 6	---	0.75	---	26-3	
	26-5	102+00 SL	RT	R3-52	CURB LANE, BICYCLES AND RIGHT TURNS ONLY	30 X 36	---	7.50	---	---	
	26-6	103+50 SL	RT	R2-1	SPEED LIMIT 50	24 X 30	---	5.00	---	---	
	26-7	105+90 SL	LT	W3-1	STOP AHEAD	36 X 36	---	9.00	---	---	
	27-1	96+95 LR	LT	W11-1	BICYCLE WARNING	30 X 30	---	6.25	---	---	
	27-2	96+95 LR	LT	W16-7L	LEFT DIAGONAL DOWNWARD POINTING ARROW	24 X 12	---	2.00	---	---	
	27-3	97+90 LR	LT	R2-1	SPEED LIMIT 50	24 X 30	---	5.00	---	---	
	28-1	102+50 LR	RT	R2-1	SPEED LIMIT 35	24 X 30	---	5.00	---	---	
	28-2	102+50 LR	RT	R7-1D	NO PARKING ANY TIME	18 X 24	---	3.00	---	28-1	
	29-1	99+50 SS	RT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	29-2	99+45 SP	RT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	29-3	100+35 SS	LT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	33-1	98+80 N	LT	R7-1D	NO PARKING ANY TIME	18 X 24	---	3.00	---	---	
	33-2	99+50 N	RT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	33-3	97+30 SN	RT	S1-1	SCHOOL	36 X 36	---	6.75	---	---	
	33-4	97+30 SN	RT	WF16-9P	AHEAD	24 X 8	---	1.33	---	33-3	
	33-5	97+30 SN	RT	R2-6P	FINES HIGHER	24 X 18	---	3.00	---	33-3	
	33-6	98+00 SN	RT	W3-3	SIGNAL AHEAD	36 X 36	---	9.00	---	---	
	33-7	99+70 SN	RT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	33-8	103+00 N	LT	R7-51L	NO PARKING HERE TO CORNER	18 X 24	---	3.00	---	---	
	33-9	101+40 N	LT	R7-1D	NO PARKING ANY TIME	18 X 24	---	3.00	---	---	
	33-10	100+45 N	LT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	33-11	100+40 SN	LT	R1-1F	STOP (FOLDING)	30 X 30	---	---	5.18	---	MOUNT ON SIGNAL POLE
	33-12	98+03 N	LT	-	CITY OF MADISON - MADISON METRO BUS STOP SIGN	18 X 24	---	---	---	---	SIGN INSTALLED BY OTHERS
	33-13	102+85 N	RT	-	CITY OF MADISON - MADISON METRO BUS STOP SIGN	18 X 24	---	---	---	---	SIGN INSTALLED BY OTHERS
	34-1	102+90 W	RT	J2-2	J ASSEMBLY	48 X 57	---	19.00	---	---	
	34-2	96+73 W	RT	JV	TRAILBLAZER ASSEMBLY WITH CARDINAL DIRECTION	48 X 48	---	16.00	---	---	MOUNT ON OVERHEAD SIGN SUPPORT S-13-424
	34-3	102+40 W	RT	D1-2	SCHROEDER RD/W BELTLINE HWY	96 X 30	---	20.00	---	---	MOUNT SIGN E34-3 TO SAME POST
	34-4	99+50 W	RT	J1-2	JUNCTION ASSEMBLY	48 X 39	---	13.00	---	---	
	34-5	102+40 W	RT	M1-94	GILBERT RD	60 X 15	---	6.25	---	34-3	
	34-6	101+15 W	RT	J2-2	ROUTE TURN ASSEMBLY	48 X 57	---	19.00	---	---	
	SHEET TOTALS (0020)						0.00	187.94	36.25		
	TOTALS (0020)						0.00	665.10	56.97		
	TOTALS						1,476.00	1,411.39	56.97		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

MOVING/REMOVING SIGN ITEMS

CATEGORY	SIGN NUMBER	SIGN CODE	638.2601 REMOVING SIGNS TYPE I EACH	638.2602 REMOVING SIGNS TYPE II EACH	*638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.3100 REMOVING STRUCTURAL STEEL SIGN SUPPORTS EACH	638.2101 MOVING SIGNS TYPE I EACH	*638.2102 MOVING SIGNS TYPE II EACH	638.3620 ERECTING STATE-OWNED SIGNS TYPE II EACH	*638.4000 MOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME SUPPORT AS	DESCRIPTION
0010	E0-1	D10-5	---	1	1	---	---	---	---	---	---	ENHANCED REFERENCE MARKER
	E0-2	D10-5	---	1	---	---	---	---	---	---	E0-1	ENHANCED REFERENCE MARKER
	E0-3	E1-5P	1	---	---	---	---	---	---	---	---	EXIT NUMBER PANEL
	E0-3	E6-1	1	---	---	---	---	---	---	---	---	EXIT GORE SIGN (OVERHEAD)
	E0-4	D10-5	---	1	1	---	---	---	---	---	---	ENHANCED REFERENCE MARKER
	E0-5	D10-5	---	1	---	---	---	---	---	---	E0-4	ENHANCED REFERENCE MARKER
	E0-6	D10-5	---	1	1	---	---	---	---	---	---	ENHANCED REFERENCE MARKER
	E0-7	D10-5	---	1	---	---	---	---	---	---	E0-6	ENHANCED REFERENCE MARKER
	E1-1	D10-5	---	1	1	---	---	---	---	---	---	ENHANCED REFERENCE MARKER
	E1-2	D10-5	---	1	---	---	---	---	---	---	E1-1	ENHANCED REFERENCE MARKER
	E1-3	R3-4B	---	1	1	---	---	---	---	---	---	NO U-TURN (W/R3_4A MESSAGE)
	E1-4	R3-4B	---	1	---	---	---	---	---	---	E1-3	NO U-TURN (W/R3_4A MESSAGE)
	E1-5	D10-5	---	1	1	---	---	---	---	---	---	ENHANCED REFERENCE MARKER
	E1-6	D10-5	---	1	---	---	---	---	---	---	E1-5	ENHANCED REFERENCE MARKER
	E1-8	E1-5P	1	---	---	2	---	---	---	---	---	EXIT NUMBER PANEL
	E1-8	E4-1A	1	---	---	---	---	---	---	---	---	EXIT DIRECTION SIGN W/ ARROW
	E2-1	J4-2	---	1	2	---	---	---	---	---	---	REASSURANCE ASSEMBLY (W12/14)
	E2-2	D10-5	---	1	1	---	---	---	---	---	---	ENHANCED REFERENCE MARKER
	E2-3	D10-5	---	1	---	---	---	---	---	---	E2-2	ENHANCED REFERENCE MARKER
	E3-1	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 55 MPH
	E3-2	E1-5P	1	---	---	2	---	---	---	---	---	EXIT NUMBER PANEL
	E3-2	E1-1A	1	---	---	---	---	---	---	---	---	ADVANCE GUIDE SIGN, 1 MILE
	E3-3	D10-5	---	1	1	---	---	---	---	---	---	ENHANCED REFERENCE MARKER
	E3-4	D10-5	---	1	---	---	---	---	---	---	E3-3	ENHANCED REFERENCE MARKER
	E4-1	W4-1	---	1	---	---	---	---	---	---	LIGHT POLE	MERGING TRAFFIC SYMBOL (RIGHT)
	E4-2	R5-57	---	1	---	---	---	---	---	---	LIGHT POLE	PEDESTRIANS ETC, PROHIBITED
	E4-3	I55-56	---	1	1	---	---	---	---	---	---	ADOPT-A-HIGHWAY SPONSOR
	E4-4	J4-1	---	1	---	---	---	---	---	---	LIGHT POLE	REASSURANCE ASSEMBLY (W12/14)
	E4-12	D10-5	---	1	1	---	---	---	---	---	---	ENHANCED REFERENCE MARKER
	E4-13	D10-5	---	1	---	---	---	---	---	---	E4-12	ENHANCED REFERENCE MARKER
	E4-18	W12-50	---	1	3	---	---	---	---	---	---	LOW BRIDGE, 1 MILE AHEAD, 15'2" MAX
	E5-2	E3-1	---	---	---	2	2	---	---	---	---	DESTINATION - NEXT RIGHT
	E5-3	E11-1C	1	---	---	---	---	---	---	---	SEMINOLE STRUCTURE	EXIT ONLY SIGN
	E5-4	W12-2-SP	1	---	---	---	---	---	---	---	SEMINOLE STRUCTURE	LOW CLEARANCE (15'1" MAX)
	E5-9	W12-2-SP	1	---	---	---	---	---	---	---	SEMINOLE STRUCTURE	LOW CLEARANCE (15'2" MAX)
	E5-10	I55-56	---	---	---	---	---	1	---	1	---	ADOPT-A-HIGHWAY SPONSOR
	E5-12	R4-7	---	1	1	---	---	---	---	---	---	KEEP RIGHT
	E5-13	R5-1	---	1	1	---	---	---	---	---	---	DO NOT ENTER
	E5-14	---	---	---	---	---	---	1	---	1	---	MADISON METRO BUS STOP
	E5-15	W6-3	---	1	1	---	---	---	---	---	---	TWO WAY TRAFFIC SYMBOL
	E5-16	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 30 MPH
	E5-17	R3-8A	---	---	---	---	---	1	---	1	---	LANE DESIGNATION - LEFT ONLY/AHEAD, RIGHT
	E5-18	R1-1F	---	---	---	---	---	---	---	---	SIGNAL POLE	STOP (FOLDING)
	E5-19	R14-1	---	---	---	---	---	1	---	1	---	TRUCK ROUTE
	E5-20	M6-4	---	---	---	---	---	1	---	---	E5-19	DIRECTIONAL ARROWS LEFT-RIGHT
	E5-22	R14-1	---	---	---	---	---	1	---	1	---	TRUCK ROUTE
	E5-23	M6-1	---	---	---	---	---	1	---	---	E5-22	ARROW - AHEAD
	E5-27	R3-8A	---	---	---	---	---	1	---	1	---	LANE DESIGNATION - LEFT ONLY/AHEAD, RIGHT
	E5-28	D1-1	---	---	---	---	---	1	---	2	---	UW ARBORETUM W/ ARROW
	E6-2	W3-3	---	1	1	---	---	---	---	---	---	SIGNAL AHEAD
	SHEET TOTALS (0010)		9	30	21	6	2	9	0	8		

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* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

MOVING/REMOVING SIGN ITEMS (CON'T)

CATEGORY	SIGN NUMBER	SIGN CODE	638.2601 REMOVING SIGNS TYPE I EACH	638.2602 REMOVING SIGNS TYPE II EACH	*638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.3100 REMOVING STRUCTURAL STEEL SIGN SUPPORTS EACH	638.2101 MOVING SIGNS TYPE I EACH	*638.2102 MOVING SIGNS TYPE II EACH	638.3620 ERECTING STATE-OWNED SIGNS TYPE II EACH	*638.4000 MOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME SUPPORT AS	DESCRIPTION
0010	E6-3	D1-2	---	1	2	---	---	---	---	---	---	TWO DESTINATIONS W/ ARROWS
(CON'T)	E6-4	D1-2	1	---	---	---	---	---	---	---	---	DESTINATION W/ ARROW
	E6-5	D1-2	1	---	---	---	---	---	---	---	E6-4	DESTINATION W/ ARROW
	E6-6	W4-3R	---	1	2	---	---	---	---	---	---	MERGE - ADDED LANE FROM RIGHT
	E6-9	W12-1D	---	1	1	---	---	---	---	---	---	DOUBLE DIAGONAL ARROW
	E6-10	R4-7	---	1	1	---	---	---	---	---	---	KEEP RIGHT
	E6-11	R3-17	---	1	1	---	---	---	---	---	---	BIKE LANE
	E6-12	R5-1	---	1	1	---	---	---	---	---	---	DO NOT ENTER
	E6-13	R5-1	---	1	1	---	---	---	---	---	---	DO NOT ENTER
	E6-14	R1-1	---	1	---	---	---	---	---	---	E6-13	STOP
	E6-15	R1-1	---	1	1	---	---	---	---	---	---	STOP
	E6-16	W1-6	---	1	1	---	---	---	---	---	---	NIGHT ARROW (SINGLE)
	E6-17	R5-57	---	1	1	---	---	---	---	---	---	PEDESTRIANS ETC, PROHIBITED
	E6-18	R4-7	---	1	1	---	---	---	---	---	---	KEEP RIGHT
	E6-19	R7-1D	---	1	1	---	---	---	---	---	---	NO PARKING ANYTIME
	E6-20	W3-1	---	1	1	---	---	---	---	---	---	STOP AHEAD
	E6-21	R3-17	---	1	1	---	---	---	---	---	---	BIKE LANE
	E6-22	R7-1D	---	1	1	---	---	---	---	---	---	NO PARKING ANYTIME
	E6-23	J4-4	---	1	2	---	---	---	---	---	---	REASSURANCE ASSEMBLY (E12/E14/E18/N151)
	E6-28	E1-5P	1	---	---	---	---	---	---	---	---	EXIT NUMBER PANEL
	E6-28	E6-51	1	---	---	---	---	---	---	---	---	ADVANCE EXIT GUIDE SIGN, 1/4 MILE AND EXIT (SINGLE DOWN ARROW) ONLY
	E6-29	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 30 MPH
	E6-30	R3-17	---	1	---	---	---	---	---	---	E6-29	BIKE LANE
	E7-3	E1-5P	1	---	---	---	---	---	---	---	---	EXIT NUMBER PANEL
	E7-3	E6-1	1	---	---	---	---	---	---	---	---	EXIT GORE SIGN (OVERHEAD) AND EXIT (SINGLE RIGHT ARROW) ONLY
	E7-4	W12-50	---	1	3	---	---	---	---	---	---	LOW BRIDGE, 1 1/2 MILES AHEAD, 15'1" MAX
	E8-1	D11-1	---	1	1	---	---	---	---	---	---	BIKE ROUTE
	E8-2	D11-1	---	1	---	---	---	---	---	---	E8-1	BIKE ROUTE
	E8-3	W1-6L	---	1	2	---	---	---	---	---	---	NIGHT ARROW (SINGLE)
	E8-4	W1-6R	---	1	---	---	---	---	---	---	E8-3	NIGHT ARROW (SINGLE)
	E8-5	W1-1R	---	1	1	---	---	---	---	---	---	RIGHT TURN
	37M-01	W1-6L	---	---	1	---	---	1	---	---	---	NIGHT ARROW (SINGLE)
	37M-02	R7-1D	---	---	---	---	---	1	---	---	37M-01	NO PARKING ANY TIME
	37M-03	W1-6L	---	---	---	---	---	1	---	---	37M-01	NIGHT ARROW (SINGLE)
	37M-04	---	---	---	---	---	---	1	---	---	37M-01	NO STOPPING, STANDING, OR PARKING
	37M-05	W1-6L	---	---	1	---	---	1	---	---	---	NIGHT ARROW (SINGLE)
	37M-06	---	---	---	1	---	---	1	---	---	---	NO TRESPASSING STATE OF WIS-OWNER VIOLATORS WILL BE PROSECUTED SEE 94313 WIS STATUTES
	37M-07	---	---	---	1	---	---	1	---	---	---	NO TRESPASSING STATE OF WIS-OWNER VIOLATORS WILL BE PROSECUTED SEE 94313 WIS STATUTES
	38M-01	W3-1	---	---	1	---	---	1	---	---	---	NO PARKING ANYTIME
	39E-01	W1-6L	---	1	---	---	---	---	---	---	---	NIGHT ARROW (SINGLE)
	39E-02	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 25
	39E-03	R1-1	---	1	1	---	---	---	---	---	---	STOP
	39E-04	W3-1	---	1	1	---	---	---	---	---	---	NO PARKING ANYTIME
	39E-05	W3-1	---	1	1	---	---	---	---	---	---	NO PARKING ANYTIME
	39E-06	R1-1	---	1	1	---	---	---	---	---	---	STOP
	E35-1	W3-3	---	---	---	---	---	1	---	---	---	SIGNAL AHEAD
	E35-2	R10-64	---	---	---	---	---	1	---	---	---	NO ENGINE BRAKING
	E35-3	D2-2	---	---	---	---	---	1	---	2	---	TWO DESTINATIONS WITH DISTANCES
	E36-1	R2-1	---	---	---	---	---	1	---	1	---	SPEED LIMIT, 40 MPH
	E36-2	---	---	1	3	---	---	---	---	---	---	EAST USH 12/18 LOW BRIDGE AHEAD 2/3 MILE, 15'2" MAX
SHEET TOTALS (0010)			6	32	40	0	0	12	0	3		
TOTALS (0010)			15	62	61	6	2	21	0	11		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

CON'T ON NEXT PAGE

MOVING/REMOVING SIGN ITEMS (CON'T)

CATEGORY	SIGN NUMBER	SIGN CODE	638.2601 REMOVING SIGNS TYPE I EACH	638.2602 REMOVING SIGNS TYPE II EACH	*638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.3100 REMOVING STRUCTURAL STEEL SIGN SUPPORTS EACH	638.2101 MOVING SIGNS TYPE I EACH	*638.2102 MOVING SIGNS TYPE II EACH	638.3620 ERECTING STATE-OWNED SIGNS TYPE II EACH	*638.4000 MOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME SUPPORT AS	DESCRIPTION
0020	E9-1	W3-1	---	1	1	---	---	---	---	---	---	STOP AHEAD
	E9-2	W3-1	---	1	1	---	---	---	---	---	---	STOP AHEAD
	E9-3	M1-5A	---	1	1	---	---	---	---	---	---	COUNTY PB
	E9-5	R3-55L	---	1	1	---	---	---	---	---	---	LEFT TURN LANE
	E10-1	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E10-2	J13-1	---	2	1	---	---	---	---	---	---	COUNTY M, DIRECTIONAL ARROW LT OR RT
	E10-3	R5-1	---	1	1	---	---	---	---	---	---	DO NOT ENTER
	E10-4	R1-1	---	1	1	---	---	---	---	---	---	STOP
	E10-5	R4-7	---	1	1	---	---	---	---	---	---	KEEP RIGHT
	E10-6	J13-1	---	2	1	---	---	---	---	---	---	COUNTY PB, DIRECTIONAL ARROW LT OR RT
	E10-7	R1-1	---	1	1	---	---	---	---	---	---	STOP
	E10-8	R1-1	---	1	1	---	---	---	---	---	---	STOP
	E10-9	J13-1	---	2	1	---	---	---	---	---	---	COUNTY PB, DIRECTIONAL ARROW LT OR RT
	E10-10	R4-7	---	1	1	---	---	---	---	---	---	KEEP RIGHT
	E10-11	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E10-12	R5-1	---	1	1	---	---	---	---	---	---	DO NOT ENTER
	E10-13	R1-1	---	1	1	---	---	---	---	---	---	STOP
	E10-14	J13-1	---	2	1	---	---	---	---	---	---	COUNTY M, DIRECTIONAL ARROW LT OR RT
	E10-15	M1-5A	---	1	1	---	---	---	---	---	---	COUNTY PB
	E10-16	R3-55L	---	1	1	---	---	---	---	---	---	LEFT TURN LANE
	E10-18	R1-1	---	1	1	---	---	---	---	---	---	STOP
	E11-1	W3-1	---	1	1	---	---	---	---	---	---	STOP AHEAD
	E11-2	W3-1	---	1	1	---	---	---	---	---	---	STOP AHEAD
	E12-1	W3-1	---	1	1	---	---	---	---	---	---	STOP AHEAD
	E13-1	M1-5A	---	1	1	---	---	---	---	---	---	COUNTY M
	E13-2	W3-1	---	1	1	---	---	---	---	---	---	STOP AHEAD
	E15-1	W11-3	---	1	1	---	---	---	---	---	---	DEER CROSSING
	E15-2	I55-56	---	1	1	---	---	---	---	---	---	ADOPT-A-HIGHWAY SPONSOR
	E16-1	M1-5A	---	1	1	---	---	---	---	---	---	COUNTY M
	E16-2	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E16-3	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E16-4	J13-1	---	2	1	---	---	---	---	---	---	COUNTY D, DIRECTIONAL ARROW LT OR RT
	E16-5	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E16-6	J13-1	---	2	1	---	---	---	---	---	---	COUNTY M, DIRECTIONAL ARROW LT OR RT
	E16-7	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E16-8	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E16-9	J13-1	---	2	1	---	---	---	---	---	---	COUNTY M, DIRECTIONAL ARROW LT OR RT
	E16-10	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E16-11	M1-5A	---	1	1	---	---	---	---	---	---	COUNTY D
	E16-12	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E16-13	D3-1	---	---	---	---	---	2	---	1	---	STREET SIGN
	E16-14	J13-1	---	2	1	---	---	---	---	---	---	COUNTY D, DIRECTIONAL ARROW LT OR RT
	E16-15	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E16-16	M1-5A	---	1	1	---	---	---	---	---	---	COUNTY M
	E16-17	W11-3	---	1	1	---	---	---	---	---	---	DEER CROSSING
	SHEET TOTALS (0020)		0	62	44	0	0	2	0	1		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

CON'T ON NEXT PAGE

MOVING/REMOVING SIGN ITEMS (CON'T)

CATEGORY	SIGN NUMBER	SIGN CODE	638.2601 REMOVING SIGNS TYPE I EACH	638.2602 REMOVING SIGNS TYPE II EACH	*638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.3100 REMOVING STRUCTURAL STEEL SIGN SUPPORTS EACH	638.2101 MOVING SIGNS TYPE I EACH	*638.2102 MOVING SIGNS TYPE II EACH	638.3620 ERECTING STATE-OWNED SIGNS TYPE II EACH	*638.4000 MOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME SUPPORT AS	DESCRIPTION
0020	E17-1	J1-1	---	2	1	---	---	---	---	---	---	JCT COUNTY D
(CON'T)	E19-4	W13-1	---	1	---	---	---	---	---	---	E19-3	45 MPH SPEED PLAQUE
	E20-3	M1-5A	---	1	1	---	---	---	---	---	---	COUNTY D
	E20-4	I55-56	---	2	---	---	---	---	---	---	E20-3	ADOPT-A-HIGHWAY
	E20-5	J1-1	---	2	1	---	---	---	---	---	---	JCT COUNTY M
	E21-1	I55-56	---	2	1	---	---	---	---	---	---	ADOPT-A-HIGHWAY
	E22-4	R2-5A	---	1	1	---	---	---	---	---	---	REDUCED SPEED AHEAD
	E22-5	W13-1	---	1	---	---	---	---	---	---	E22-5	50 MPH
	E23-3	W2-2	---	1	1	---	---	---	---	---	---	SIDE ROAD 90 DEGREES
	E23-4	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 50
	E23-5	D3-1	---	---	---	---	---	2	---	1	---	STREET SIGN
	E23-6	R1-1	---	1	1	---	---	---	---	---	---	STOP
	E23-7	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 40
	E23-8	R1-1	---	1	1	---	---	---	---	---	---	STOP
	E23-12	W13-1	---	1	---	---	---	---	---	---	E23-11	40 MPH SPEED PLAQUE
	E23-13	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 50
	E23-15	W13-1	---	1	---	---	---	---	---	---	E23-14	40 MPH SPEED PLAQUE
	E23-16	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 55
	E23-17	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 50
	E24-1	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 50
	E24-2	W2-1	---	1	1	---	---	---	---	---	---	CROSS ROAD WARNING
	E24-3	W13-1	---	1	---	---	---	---	---	---	E24-2	40 MPH SPEED PLAQUE
	E24-4	R1-1	---	---	---	---	---	1	---	1	---	STOP
	E24-5	S3-1	---	1	1	---	---	---	---	---	---	SCHOOL BUS STOP AHEAD
	E24-6	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 50
	E24-7	W3-5	---	1	1	---	---	---	---	---	---	SPEED LIMIT 40 AHEAD (ARROW)
	E24-8	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 50
	E25-1	W5-52R	---	1	1	---	---	---	---	---	---	TYPE 3 OBJECT MARKER
	E25-2	W5-52L	---	1	---	---	---	---	---	---	E25-1	TYPE 3 OBJECT MARKER
	E25-3	W5-52L	---	1	1	---	---	---	---	---	---	TYPE 3 OBJECT MARKER
	E25-4	W5-52R	---	1	---	---	---	---	---	---	E25-3	TYPE 3 OBJECT MARKER
	E25-5	W3-1	---	1	1	---	---	---	---	---	---	STOP AHEAD
	E25-6	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 50
	E26-1	R1-1	---	---	---	---	---	1	---	1	---	STOP, ALL WAY (BLINKING)
	E26-2	D3-1	---	---	1	---	---	2	---	---	---	STREET SIGN
	E26-3	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E26-4	W11-1	---	---	---	---	---	2	---	1	---	BICYCLE WARNING W/ 200 FT PLAQUE
	E26-5	R1-1	---	---	---	---	---	1	---	1	---	STOP, ALL WAY (BLINKING)
	E26-6	R1-1	---	2	1	---	---	---	---	---	---	STOP, ALL WAY
	E26-7	R3-52	---	1	1	---	---	---	---	---	---	CURB LANE RESTRICTIONS
	E26-8	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 50
	E26-9	W3-1	---	1	1	---	---	---	---	---	---	STOP AHEAD
	E27-1	R1-1	---	---	---	---	---	1	---	1	---	STOP, BICYCLE
	E27-2	W11-1	---	1	1	---	---	---	---	---	---	BICYCLE WARNING
	E27-3	W16-7L	---	1	---	---	---	---	---	---	E27-2	DIAGONAL ARROW LEFT
	SHEET TOTALS (0020)		0	44	30	0	0	10	0	6		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

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MOVING/REMOVING SIGN ITEMS (CON'T)

CATEGORY	SIGN NUMBER	SIGN CODE	638.2601 REMOVING SIGNS TYPE I EACH	638.2602 REMOVING SIGNS TYPE II EACH	*638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.3100 REMOVING STRUCTURAL STEEL SIGN SUPPORTS EACH	638.2101 MOVING SIGNS TYPE I EACH	*638.2102 MOVING SIGNS TYPE II EACH	638.3620 ERECTING STATE-OWNED SIGNS TYPE II EACH	*638.4000 MOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME SUPPORT AS	DESCRIPTION
0020	E27-4	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 50
(CONT.)	E28-1	R2-1	---	1	1	---	---	---	---	---	---	SPEED LIMIT 35
	E28-2	R7-1D	---	1	---	---	---	---	---	---	E28-1	NO PARKING ANY TIME
	E29-1	R1-1	---	1	1	---	---	---	---	---	---	STOP
	E29-2	R4-7	---	---	---	---	---	1	---	1	---	KEEP RIGHT
	E29-3	D3-1	---	2	1	---	---	---	---	---	---	STREET SIGN
	29-4	D3-1	---	---	---	---	---	---	1	---	---	SENTINEL PASS STREET SIGN
	29-5	D3-1	---	---	---	---	---	---	1	---	---	SEMINOLE HWY STREET SIGN
	E30-1	---	---	---	---	---	---	1	---	2	---	FITCHBURG
	E30-2	---	---	---	---	---	---	1	---	---	E30-1	CALENDAR PARKING REGULATIONS
	E30-9	---	---	---	---	---	---	1	---	---	E30-1	BICYCLE FRIENDLY COMMUNITY
	E32-1	D1-61	---	---	---	---	---	1	---	2	---	MARKETPLACE DR, PINEWAY TR
	E32-2	D1-61	---	---	---	---	---	1	---	2	---	SEMINOLE HWY
	E33-1	R7-52R	---	1	1	---	---	---	---	---	---	NO PARKING BETWEEN SIGNS
	E33-2	R7-51R	---	---	---	---	---	1	---	1	---	NO PARKING HERE TO CORNER
	E33-3	R7-52L	---	1	1	---	---	---	---	---	---	NO PARKING BETWEEN SIGNS
	E33-4	R4-7	---	1	1	---	---	---	---	---	---	KEEP RIGHT
	E33-5	S1-1	---	1	1	---	---	---	---	---	---	SCHOOL
	E33-6	R1-1	---	1	---	---	---	---	---	---	E33-7	STOP
	E33-7	D3-1	---	---	---	---	---	2	---	1	---	STREET SIGN
	E33-8	D3-1	---	---	---	---	---	2	---	1	---	STREET SIGN
	E33-9	R1-1	---	1	---	---	---	---	---	---	E33-8	STOP
	E33-20	---	---	---	1	---	---	---	---	---	---	BUS STOP
	E33-25	---	---	---	1	---	---	---	---	---	---	BUS STOP
	E34-1	D3-1	---	---	---	---	---	2	---	1	---	STREET SIGN
	E34-2	D1-61	---	1	3	---	---	---	---	---	---	SCHROEDER RD, W BELTLINE HWY
	E34-3	---	---	---	---	---	---	1	---	---	E34-2	ICE ARENA
	E34-4	J2-2	---	1	1	---	---	---	---	---	---	J ASSEMBLY
	E34-5	---	---	1	---	---	---	---	---	---	E34-2	GILBERT RD
SHEET TOTALS (0020)			0	15	14	0	0	14	2	11		
TOTALS (0020)			0	121	88	0	0	26	2	18		
TOTALS			15	183	149	6	2	47	2	29		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE.

FIELD OFFICE TYPE D

CATEGORY	PROJECT	642.5401 EACH
0010	1206-07-77	1

TRAFFIC CONTROL PROJECT

CATEGORY	PROJECT	643.0100 EACH
0010	1206-07-77	1

TRAFFIC CONTROL

CATEGORY	PROJECT LOCATION	STAGE	STATION - STATION	DURATION (DAYS)	643.0300 TRAFFIC CONTROL DRUMS		643.0410 TRAFFIC CONTROL BARRICADES TYPE II		643.0420 TRAFFIC CONTROL BARRICADES TYPE III		643.0453 PERMANENT TYPE III	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C		643.0800 TRAFFIC CONTROL ARROW BOARDS		643.0900 TRAFFIC CONTROL SIGNS		643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE	643.1050 TRAFFIC CONTROL SIGNS PCMS		SPV.0045.01 PCMS CELLULAR COMMUNICATIONS		643.3000 TRAFFIC CONTROL DETOUR SIGNS
					QTY	DAYS	QTY	DAYS	QTY	DAYS	EACH	QTY	DAYS	QTY	DAYS	QTY	DAYS	QTY	DAYS	SF	QTY	DAYS	QTY	DAYS	QTY
0010	WEST BELTLINE WIDENING	STAGE 1 PHASE 1 (NIGHT)	994+00 - 1077+00	40	224	8,960	---	---	14	560	---	28	1,120	30	1,200	4	160	32	1,280	---	2	145	2	145	---
		STAGE 1 PHASE 1 (DAY)	994+00 - 1077+00	35	182	6,370	---	---	---	---	---	---	---	---	---	2	70	18	630	---	---	---	---	---	---
		STAGE 1 PHASE 1 (L RAMP)	67+00 L - 76+50 L	75	30	2,250	---	---	---	---	---	---	---	---	---	---	---	4	300	---	---	---	---	---	---
		STAGE 1 PHASE 2	1004+00 - 1082+50	138	92	12,696	---	---	---	---	---	---	---	14	1,932	1	138	20	2,760	---	---	---	---	---	---
		SUBTOTALS (0010)		288		30,276		0		560	0		1,120		3,132		368		4,970			145		145	
	N-13-4	K RAMP	77+00 K - 89+50 K	35	38	1,330	---	---	3	105	---	6	210	---	---	1	35	11	385	---	1	45	1	45	---
		SUBTOTALS (0010)		35		1,330		0		105	0		210		0		35		385	0		45		45	
	BELTLINE STORM SEWER CROSSING	STAGE 1 PHASE 1	1120+50 - 1139+00	1	86	86	1	1	14	14	---	20	20	19	19	2	2	19	19	---	4	16	4	16	---
		STAGE 1 PHASE 2	1123+50 - 1139+00	1	52	52	---	---	2	2	---	4	4	27	27	2	2	13	13	---	---	---	---	---	---
		STAGE 1 PHASE 3	1112+50 - 1127+50	1	69	69	---	---	3	3	---	6	6	28	28	2	2	22	22	---	---	---	---	---	---
		STAGE 1 PHASE 4	1072+50 - 1127+50	1	132	132	---	---	7	7	---	14	14	35	35	2	2	23	23	---	---	---	---	---	---
		SUBTOTALS (0010)		4		339		1		26	0		44		109		8		77			16		16	
	N-13-2	WB USH 12/18 CLOSURE	1158+50 - 1195+50	2	85	170	---	---	2	4	---	4	8	32	64	2	4	13	26	---	1	9	1	9	---
		SHOULDER CLOSURE	1158+50 - 1174+00	60	54	3,240	---	---	---	---	---	---	---	---	---	1	60	8	480	---	---	---	---	---	---
		STAGE 1 PHASE 2	1158+50 - 1174+00	60	9	540	---	---	---	---	---	---	---	---	---	1	60	8	480	---	---	---	---	---	---
		SUBTOTALS (0010)		122		3,950		0		4	0		8		64		124		986			9		9	
	B-13-664 R-13-235/236	EB USH 12/14 CLOSURE	1141+00 - 1195+00	18	58	1,044	---	---	2	36	---	4	72	14	252	2	36	14	252	---	---	---	---	---	---
		WB USH 12/14 CLOSURE	1158+50 - 1195+50	19	58	1,102	---	---	2	38	---	4	76	31	589	2	38	14	266	---	---	---	---	---	---
		STAGE 3 PHASE 1	1157+50 - 1178+00	76	14	1,064	---	---	32	2,432	---	20	1,520	---	---	2	152	40	3,040	---	3	249	3	249	---
		SUBTOTALS (0010)		113		3,210		0		2,506	0		1,668		841		226		3,558	0		249		249	
	WEST BELTLINE FRONTAGE ROAD	STAGE 1 PHASE 1	1145+50 - 1200+00	2	75	150	---	---	3	6	---	6	12	13	26	2	4	11	22	---	2	127	2	127	---
		STAGE 1 PHASE 2	1141+00 - 1195+00	2	109	218	---	---	4	8	---	8	16	33	66	2	4	14	28	---	---	---	---	---	---
		STAGE 2 PHASE 1	70+50 SF - 94+00 SF	4	78	312	---	---	3	12	---	6	24	---	---	1	4	19	76	---	---	---	---	---	108
		STAGE 2 PHASE 2	70+50 SF - 94+00 SF	9	46	414	---	---	7	63	---	14	126	---	---	---	---	16	144	---	---	---	---	---	108
		EB USH 12/14 CLOSURE	1141+00 - 1195+00	1	120	120	---	---	4	4	---	8	8	33	33	2	2	16	16	---	---	---	---	---	---
		STAGE 2 PHASE 3	70+50 SF - 92+00 SF	7	48	336	---	---	13	91	---	14	98	5	35	---	---	10	70	---	---	---	---	---	78
		SUBTOTALS (0010)		25		1,550		0		184	0		284		160		14		356	0		127		127	
	SAND & TRASH COLLECTOR	STAGE 1 (NIGHT)	1185+00 - 1204+50	2	52	104	---	---	1	2	---	2	4	14	28	2	4	11	22	---	1	69	1	69	---
		STAGE 1 (NIGHT)	1185+00 - 1204+50	1	52	52	---	---	1	1	---	2	2	14	14	2	2	11	11	---	---	---	---	---	---
		STAGE 2	1185+00 - 1204+50	62	53	3,286	---	---	1	62	---	2	124	14	868	2	124	20	1,240	---	---	---	---	---	---
		STAGE 2 (NIGHT)	1185+00 - 1204+50	1	52	52	---	---	1	1	---	2	2	14	14	2	2	11	11	---	---	---	---	---	---
		STAGE 2 (NIGHT)	1185+00 - 1204+50	2	52	104	---	---	1	2	---	2	4	14	28	2	4	11	22	---	---	---	---	---	---
		SUBTOTALS (0010)		68		3,598		0		68	0		136		952		136		1,306	0		69		69	
	TODD DRIVE STORM SEWER	STAGE 1	1+83 TD - 13+13 TD	13	10	130	---	---	---	---	---	---	---	---	---	1	13	8	104	---	---	---	---	---	---
		STAGE 1 (DAY)	BELTLINE FRONTAGE RD	1	10	10	---	---	---	---	---	---	---	---	---	1	1	8	8	---	---	---	---	---	---
		SUBTOTALS (0010)		14		140		0		0	0		0		0		14		112	0		0		0	
	WARWICK WAY	STAGE 1 PHASE 1	50+00 WW - 58+00 WW	31	---	---	---	---	4	124	---	8	248	---	---	---	---	9	279		---	---	---	---	---
		SUBTOTALS (0010)		31		0		0		124	0		248		0		0		279			0		0	
	VERONA RD	STAGE 1 PHASE 1A	975+15 VR - 1010+00 VR	7	237	1,659	---	---	10	70	---	20	140	17	119	1	7	33	231	---	4	120	4	120	---
		STAGE 1 PHASE 1B	975+15 VR - 1010+00 VR	14	395	5,530	---	---	18	252	---	36	504	48	672	5	70	52	728	---	---	---	---	---	---
		STAGE 1 PHASE 2A	975+15 VR - 1010+00 VR	14	109	1,526	---	---	5	70	---	10	140	10	140	2	28	22	308	---	---	---	---	---	---
		STAGE 1 PHASE 2B	975+15 VR - 1010+00 VR	1	74	74	---	---	2	2	---	4	4	13	13	1	1	9	9	---	---	---	---	---	---
		EB BASE PATCHING	975+00 VR 1000+00 VR	7	160	1,120	---	---	4	28	---	8	56	13	91	1	7	15	105	---	---	---	---	---	---
		STAGE 2 - FRONTAGE ROAD	93+00 EE - 96+00 EE	30	---	---	2	60	14	420	---	18	540	---	---	---	---	12	360	---	---	---	---	---	---
		STAGE 3 PHASE 1	15+00 FP - 19+00 FP	14	---	---	---	---	---	---	---	---	---	---	---	---	---	2	28	---	---	---	---	---	---
		STAGE 3 PHASE 2 - E. FRONTAGE	11+50 FP - 13+50 FP	30	---	---	---	---	3	90	---	2	60	---	---	---	---	2	60	---	---	---	---	---	---
		STAGE 3 PHASE 2 - W. FRONTAGE	19+50 FP - 22+00 FP	30	---	---	---	---	6	180	---	4	120	---	---	---	---	3	90	---	---	---	---	---	---
		STAGE 3 PHASE 3 - FREEPORT	12+00 FP - 21+00 FP	30	---	---	---	---	---	---	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		STAGE 4 PHASE 1	974+00 VR - 989+00 VR	1	43	43	7	7	18	18	---	14	14	---	---	---	---	20	20	---	---	---	---	---	---
		STAGE 4 PHASE 2	983+00 VR - 993+00 VR	1	110	110	11	11	32	32	---	34	34	8	8	1	1	47	47	---	---	---	---	---	---
		STAGE 4 PHASE 3	988+00 VR - 998+00 VR	30	141	4,230	10	300	12	360	---	16	480	---	---	---	---	8	240	---	---	---	---	---	10
		STAGE 5	17+00 BP - 20+00 BP	14	12	168	---	---	11	154	---	14	196	---	---	---	---	12	168	---	---	---	---	---	---
		SUBTOTALS (0010)		223		14,460		378		1,676	10		2,288		1,043		114		2,394	0		120		120	

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TRAFFIC CONTROL (CON'T)

CATEGORY	PROJECT LOCATION	STAGE	STATION - STATION	DURATION (DAYS)	643.0300 TRAFFIC CONTROL DRUMS QTY	643.0300 DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II QTY	643.0410 DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III QTY	643.0420 DAYS	643.0453 PERMANENT TYPE III EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A QTY	643.0705 DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C QTY	643.0715 DAYS	643.0800 ARROW BOARDS QTY	643.0800 DAYS	643.0900 TRAFFIC CONTROL SIGNS QTY	643.0900 DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PCMS QTY	643.1050 DAYS	SPV.0045.01 PCMS CELLULAR COMMUNICATIONS QTY	SPV.0045.01 DAYS	643.3000 TRAFFIC CONTROL DETOUR SIGNS QTY
0010 (CON'T)	OSOW SUPPLEMENTAL ADVANCED WARNING	PROJECT	---	275	---	---	---	---	---	---	---	---	---	---	---	---	---	19	5,225	458	---	---	---	---	---
		PROJECT - YEAR 1	---	131	---	---	---	---	---	---	---	---	---	---	---	---	---	27	3,537	---	---	---	---	---	---
		PROJECT - YEAR 2	---	144	---	---	---	---	---	---	---	---	---	---	---	---	---	40	5,760	---	---	---	---	---	---
		SUBTOTALS (0010)		550		0		0		0	0		0		0		0		14,522	458		0		0	
		UNDISTRIBUTED	---			5,885		38		525	1		601		630		104		2,895	46		78		157	
		TOTALS (0010)				64,738		417		5,778	11		6,607		6,931		1,143		31,840	504		858		937	
0020	SEMINOLE HIGHWAY AT LACY ROAD	SEMINOLE HIGHWAY	90+50 SL - 107+03 SL	4	63	252	---	---	1	4	---	---	---	13	52	1	4	15	60	---	2	14	2	14	---
		LACY ROAD	96+50 LR - 103+53 LR	10	34	340	---	---	1	10	---	---	---	12	120	1	10	15	150	---	---	---	---	---	---
		SUBTOTALS (0020)		14		592		0		14	0		0		172		14		210	0		14		14	
	CTH PB AT CTH M	CTH M																							
		CTH PB	90+40 PB - 98+00 PB	16	40	640	---	---	1	16	---	---	---	13	208	1	16	15	240	---	2	14	2	14	---
		SUBTOTALS (0020)		16		640		0		16	0		0		208		16		240	0		14		14	
	SEMINOLE HIGHWAY AT SENTINEL PASS	SEMINOLE HIGHWAY	95+80 SS - 103+30 SS	12	41	492	---	---	1	12		---	---	10	120	1	12	15	180	---	2	14	2	14	---
		SENTINAL PASS	97+00 S - 100+00 S	10	24	240	---	---	1	10	---	---	---	10	100	1	10	15	150	---	---	---	---	---	---
		SUBTOTALS (0020)		22		732		0		22	0		0		220		22		330	0		14		14	
	CTH PB AT CTH M	CTH M	99+00 MPB - 107+00 MPB	10	34	340	---	---	1	10	---	---	---	11	110	1	10	12	120	---	2	14	2	14	---
		CTH PB	98+00 PB - 107+00 PB	13	34	442	---	---	1	13	---	---	---	11	143	1	13	13	169	---	---	---	---	---	---
		SUBTOTALS (0020)		23		782		0		23	0		0		253		23		289	0		14		14	
	WHITNEY WAY AT GILBERT ROAD	WHITNEY WAY	93+66 W - 106+07 W	14	56	784	---	---	2	28	---	---	---	16	224	2	28	26	364	---	2	14	2	14	---
		SUBTOTALS (0020)		14		784		0		28	0		0		224		28		364	0		14		14	
	CTH M AT FISH HATCHERY ROAD	CTH M	92+00 MFH - 108+00 MFH	19	60	1,140	---	---	2	38	---	---	---	12	228	1	19	15	285	---	2	14	2	14	---
		FISH HATCHERY ROAD	93+00 FHM - 106+00 FHM	5	52	260	---	---	2	10	---	---	---	12	60	1	5	15	75	---	---	---	---	---	---
		SUBTOTALS (0020)		24		1,400		0		48	0		0		288		24		360	0		14		14	
	FISH HATCHERY AT WHALEN ROAD	FISH HATCHERY ROAD	95+75 FHW - 106+25 FHW	7	49	343	---	---	1	7	---	---	---	12	84	1	7	15	105	---	2	14	2	14	---
		WHALEN ROAD	97+75 WFH - 101+00 WFH	25	31	775	---	---	1	25	---	---	---	12	300	1	25	15	375	---	---	---	---	---	---
		SUBTOTALS (0020)		32		1,118		0		32	0		0		384		32		480	0		14		14	
	CTH PD AT SEMINOLE HIGHWAY	CTH PD	93+00 PD - 98+00 PD	10	15	150	---	---	1	10	---	2	20	7	70	1	10	9	90	---	2	14	2	14	---
		SUBTOTALS (0020)		10		150		0		10	0		20		70		10		90	0		14		14	
	NAKOMA AT SEMINOLE/YUMA	NAKOMA/SEMINOLE	98+14 N - 103+06 N	5	20	100	---	---	---	---	---	---	---	---	---	---	---	5	25	---	2	14	2	14	---
		SUBTOTALS (0020)		5		100		0		0	0		0		0		0		25	0		14		14	
		UNDISTRIBUTED	---			630		0		19	0		2		182		17		239	0		13		13	
		TOTALS (0020)				6,928		0		212	0		22		2,001		186		2,627	0		139		139	
0040	DMS-13-37	LANE CLOSURE		5	38	190	---	---	1	5	---	2	10	14	70	2	10	11	55	---	1	12	1	12	---
		OUTSIDE SHOULDER CLOSURE	651+00 AP - 657+00 AP	5	19	95	---	---	---	---	---	---	---	---	---	1	5	8	40	---	---	---	---	---	---
		SUBTOTALS (0040)		5		285		0		5	0		10		70		15		95	0		12		12	
	PCMS-1-1041	OUTSIDE SHOULDER CLOSURE	10+00 MPR - 14+00 MPR	2	19	38	---	---	---	---	---	---	---	---	---	1	2	8	16	---	1	7	1	7	---
		SUBTOTALS (0040)		2		38		0		0	0		0		0		2		16	0		7		7	

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TRAFFIC CONTROL (CONT.)

CATEGORY	PROJECT LOCATION	STAGE	STATION - STATION	DURATION (DAYS)	643.0300 TRAFFIC CONTROL DRUMS QTY	643.0300 DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II QTY	643.0410 DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III QTY	643.0420 DAYS	643.0453 PERMANENT TYPE III EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A QTY	643.0705 DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C QTY	643.0715 DAYS	643.0800 ARROW BOARDS QTY	643.0800 DAYS	643.0900 TRAFFIC CONTROL SIGNS QTY	643.0900 DAYS	643.1000 SIGNS FIXED MESSAGE SF	643.1050 SIGNS PCMS QTY	643.1050 DAYS	SPV.0045.01 PCMS CELLULAR COMMUNICATIONS QTY	SPV.0045.01 DAYS	643.3000 TRAFFIC CONTROL DETOUR SIGNS QTY
		MEDIAN LANE CLOSURE	1015+00 - 1024+00	3	38	114	---	---	1	3	---	2	6	14	42	2	6	11	33	---	1	13	1	13	---
0040 (CONT.)	DMS-13-31	OUTSIDE SHOULDER CLOSURE	1015+00 - 1024+00	6	22	132	---	---	---	---	---	---	---	---	---	1	6	11	66	---	---	---	---	---	---
		SUBTOTALS (0040)		9		246		0		3	0		6		42		12		99	0		13		13	
	DMS-13-32	WB OUTSIDE SHOULDER CLOSURE	1207+00 - 1220+00	5	14	70	---	---	---	---	---	---	---	---	---	1	5	9	45	---	---	---	---	---	---
	DMS-13-33	WB MEDIAN SHOULDER CLOSURE	1207+00 - 1220+00	12	14	168	---	---	---	---	---	---	---	---	---	1	12	9	108	---	---	---	---	---	---
		EB MEDIAN SHOULDER CLOSURE	1207+00 - 1220+00	12	14	168	---	---	---	---	---	---	---	---	---	1	12	9	108	---	---	---	---	---	---
		WB MEDIAN LANE CLOSURE	1207+00 - 1220+00	7	40	280	---	---	---	---	---	---	---	21	147	2	14	12	84	---	1	14	1	14	---
		EB MEDIAN LANE CLOSURE	1207+00 - 1220+00	7	40	280	---	---	1	7	---	2	14	21	147	2	14	12	84	---	1	14	1	14	---
		SUBTOTALS (0040)		43		966		0		7	0		14		294		57		429	0		28		28	
	CCTV-13-61	WB OUTSIDE SHOULDER CLOSURE		5	22	110	---	---	---	---	---	---	---	---	---	1	5	11	55	---	---	---	---	---	---
		SUBTOTALS (0040)		5		110		0		0	0		0		0		5		55	0		0		0	
	DMS-13-34	WB MEDIAN SHOULDER CLOSURE	1383+00 JN - 1392+00 JN	5	14	70	---	---	---	---	---	---	---	---	---	1	5	9	45	---	---	---	---	---	---
	DMS-13-35	EB MEDIAN SHOULDER CLOSURE	1383+00 JN - 1392+00 JN	12	14	168	---	---	---	---	---	---	---	---	---	1	12	9	108	---	---	---	---	---	---
		EB OUTSIDE SHOULDER CLOSURE	1383+00 JN - 1392+00 JN	12	14	168	---	---	---	---	---	---	---	---	---	1	12	9	108	---	---	---	---	---	---
		WB MEDIAN LANE CLOSURE	1383+00 JN - 1392+00 JN	7	40	280	---	---	--	--	---	---	---	21	147	2	14	12	84	---	1	14	1	14	---
		EB MEDIAN LANE CLOSURE	1383+00 JN - 1392+00 JN	7	40	280	---	---	1	7	---	---	---	21	147	2	14	12	84	---	1	14	1	14	---
		SUBTOTALS (0040)		43		966		0		7	0		0		294		57		429	0		28		28	
	CCTV-13-62	SHOULDER CLOSURE		9	22	198	---	---	---	---	---	---	---	---	---	1	9	11	99	---	---	---	---	---	---
		SUBTOTALS (0040)		9		198		0		0	0		0		0		9		99	0		0		0	
	DMS-13-36	WB OUTSIDE SHOULDER CLOSURE	1584+00 - 1595+00	3	19	57	---	---	---	---	---	---	---	---	---	1	3	11	33	---	---	---	---	---	---
		WB MEDIAN LANE CLOSURE	1584+00 - 1595+00	3	38	114	---	---	1	3	---	2	6	14	42	2	6	11	33	---	1	10	1	10	---
		SUBTOTALS (0040)		6		171		0		3	0		6		42		9		66	0		10		10	
	PCMS-1-1038	LANE CLOSURE	10+00 SRC - 14+50 SRC	5	38	190	---	---	1	5	---	2	10	14	70	2	10	11	55	---	1	12	1	12	---
		EB SHOULDER CLOSURE	10+00 SRC - 14+50 SRC	5	15	75	---	---	---	---	---	---	---	---	---	1	5	8	40	---	---	---	---	---	---
		SUBTOTALS (0040)		10		265		0		5	0		10		70		15		95	0		12		12	
	PCMS-1-1039	EB SHOULDER CLOSURE	10+00 LD - 14+00 LD	4	19	76	---	---	---	---	---	---	---	---	---	1	4	8	32	---	---	---	---	---	---
		SUBTOTALS (0040)		4		76		0		0	0		0		0		4		32	0		0		0	
	PCMS-1-1040	LANE CLOSURE	10+00 GR - 14+00 GR	4	38	152	---	---	1	4	---	2	8	14	56	2	8	11	44	---	1	11	1	11	---
		EB SHOULDER CLOSURE	10+00 GR - 14+00 GR	4	15	60	---	---	---	---	---	---	---	---	---	1	4	8	32	---	---	---	---	---	---
		SUBTOTALS (0040)		8		212		0		4	0		8		56		12		76	0		11		11	
	CCTV-13-63	SHOULDER WORK	---	9	15	135	---	---	---	---	---	---	---	---	---	---	---	4	36	---	---	---	---	---	---
		SUBTOTALS (0040)		9		135		0		0	0		0		0		0		36	0		0		0	
	BLUETOOTH INSTALLATIONS	SHOULDER WORK	---	27	14	378	---	---	---	---	---	---	---	---	---	1	27	8	216	---	---	---	---	---	---
		SUBTOTALS (0040)		27		378		0		0	0		0		0		27		216	0		0		0	
		UNDISTRIBUTED	---			405		0		3	0		5		87		22		174	0		12		12	
		TOTALS (0040)				4,451		0		37	0		59		955		246		1,917	0		133		133	
			TOTALS			76,117		417		6,028	11		6,688		9,887		1,575		36,384	504		1,130		1,209	

TRAFFIC CONTROL COVERING SIGNS TYPE II

CATEGORY	PROJECT LOCATION	STATION		643.0920 EACH	REMARKS
0010	BELTLINE STORM SEWER CROSSING	1134+25	RT	2	STAGE 1 PHASE 4 (EXIT)
				2	
	WEST BELTLINE FRONTAGE ROAD	1176+50	LT	3	STAGE 1 PHASE 1 (EXIT)
				3	
	FREEPORT RD	11+50 'FP'	RT	2	STAGE 4 PHASE 1 & 2 (W1-6 NIGHT ARROW)
				2	
		TOTALS		7	

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER

CATEGORY	PROJECT LOCATION	STAGE	STATION - STATION	643.0500 POSTS EACH	643.0600 BASES EACH
0010	FREEPORT RD	STAGE 3 PHASE 3 - FREEPORT	11+50 FP - 21+00 FP	50	50

TRAFFIC CONTROL DETOUR PROJECT

CATEGORY	PROJECT ID	PROJECT LOCATION	643.2000 EACH
0010	1206-07-77	WEST BELTLINE FRONTAGE ROAD	1

PAVEMENT MARKING

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH (WHITE) LF	646.0106 EPOXY 4-INCH (YELLOW) LF	646.0106 EPOXY 4-INCH (DOUBLE YELLOW) LF	646.0106 EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (WHITE) LF	646.0106 EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (YELLOW) LF	646.0106 EPOXY 4-INCH (3' SEG. 9' GAP) (WHITE) LF	646.0106 EPOXY 4-INCH (3' SEG. 9' GAP) (YELLOW) LF	646.0106 EPOXY 4-INCH (2' SEG. 6' GAP) (WHITE) LF	646.0116 EPOXY 6-INCH (WHITE) LF	646.0126 EPOXY 8-INCH (WHITE) LF	646.0126 EPOXY 8-INCH (3' SEG. 9' GAP) (WHITE) LF	646.0406 SAME DAY EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (WHITE) LF	647.0456 CURB EPOXY LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0726 DIAGONAL EPOXY 12-INCH (YELLOW) LF	647.0726 DIAGONAL EPOXY 12-INCH (WHITE) LF	647.0766 CROSSWALK EPOXY 6-INCH LF	647.0796 CROSSWALK EPOXY 24-INCH LF
0010	WEST BELTLINE WIDENING	1023+31 - 1080+42	EB EDGE LINE	---	5,700	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		1022+02 - 1080+58	WB EDGE LINE	5,290	5,860	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		67+00 L - 76+24 L	RAMP EDGE LINE	915	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		6,205	11,560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	BELTLINE STORM SEWER CROSSING	1125+11 - 1126+47	WB BELTLINE	41	48	---	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		1125+46 - 1126+54	EB BELTLINE	34	34	---	25	---	---	---	---	---	---	9	---	---	---	---	---	---	---	---
		SUBTOTALS		75	82	0	50	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0
	B-13-664/ SAND & TRASH COLLECTOR	1155+46 - 1197+77	EB BELTLINE	1,730	4,140	---	2,070	---	---	---	---	---	95	515	---	---	---	---	---	---	---	---
		1164+14 - 1209+74	WB BELTLINE	3,760	4,560	---	2,280	---	---	---	---	---	335	115	---	---	---	---	---	---	---	---
		8+32 SH - 11+05 SH	LT/RT	425	---	425	---	---	---	---	---	---	155	---	---	---	160	---	---	---	430	---
		SUBTOTALS		5,915	8,700	425	4,350	0	0	0	0	0	585	630	0	0	160	0	0	0	430	0
	WEST BELTLINE FRONTAGE ROAD	1177+20 - 1193+73	RT	1,470	---	---	---	---	---	---	---	---	715	69	---	---	---	---	---	---	---	---
		1176+48 S - 1182+12 S	S RAMP	685	270	---	---	---	11	---	---	---	---	---	10	---	---	1	---	---	---	---
		73+50 SF - 89+50 SF	W. BELTLINE FRONTAGE RD	2,560	1,000	1,210	---	---	---	---	34	---	315	---	---	40	15	4	---	---	---	---
		SUBTOTALS		4,715	1,270	1,210	0	0	11	0	34	0	1,030	69	0	50	15	5	0	0	0	0
	WARWICK WAY	51+58 WW - 51+74 WW	CROSSWALK	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	48	---
		64+79 WW - 64+88 WW	CROSSWALK	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	82	---
		SUBTOTALS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130	0
	VERONA RD	975+15 VR - 986+85 VR	WB EDGE LINE	1,170	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		975+15 VR - 987+17 VR	WB MEDIAN EDGE LINE	---	1,200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		975+15 VR - 987+17 VR	WB CENTER LINE	---	---	---	---	---	---	---	---	---	---	---	600	---	---	---	---	---	---	---
		987+11 VR - 987+29 VR	CROSS WALK/STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	59	---	---	---	230	---
		988+43 VR	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	56	---	---	---	---	---
		98+73 SU - 99+22 SU	SUMMIT ROAD TURN LANES	---	---	---	---	---	---	---	---	---	245	---	---	---	---	---	---	---	---	---
		99+22 SU	SUMMIT ROAD STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	50	---	---	---	---	---
		99+19 SU - 99+37 SU	CROSS WALK	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	185	---
		988+43 VR 997+80 VR	WB EDGE LINE	940	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		988+43 VR - 998+81 VR	WB MEDIAN EDGE LINE	---	1,040	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		988+43 VR - 997+80 VR	WB CENTER LINE	---	---	---	---	---	---	---	---	---	---	---	470	---	---	---	---	---	---	---
		988+43 VR - 997+80 VR	WB RT TURN LANE CHANNELIZING	---	---	---	---	---	---	---	---	---	210	180	---	---	---	---	---	---	---	---
		988+43 VR - 995+73 VR	WB LT TURN LANE CHANNELIZING	---	---	---	---	---	---	---	---	---	730	---	---	---	---	---	---	---	---	---
		98+11 EE - 98+11 WN	VERONA ROAD W. FRONTAGE RD	660	---	660	---	---	---	---	---	---	---	---	---	---	---	---	---	---	78	42
		84+93 WN - 85+00 WN	VERONA ROAD W. FRONTAGE RD	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	76	42
		94+94 EE - 95+24 EE	VERONA ROAD W. FRONTAGE RD	61	---	---	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		116+76 EE - 117+07 EE	VERONA ROAD E. FRONTAGE RD	60	60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		107+17 WN - 108+37 WN	VERONA ROAD E. FRONTAGE RD	89	110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		2,980	2,410	660	0	13	0	0	0	0	1,185	180	1,070	0	165	0	0	0	569	84
	FREEPORT RD	11+11 FP - 21+47 FP	EDGE LINE/CENTERLINE	1,710	1,810	---	---	---	---	---	---	---	340	---	---	---	18	---	1,090	---	---	---
		10+16 TL - 10+97 TL	THURSTON LANE	---	105	---	---	---	---	---	---	---	---	---	---	---	36	---	---	---	72	---
		9+99 BI - 15+75 BI	BIKE PATH CENTER LINE	---	---	---	---	---	---	160	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		1,710	1,915	0	0	0	0	160	0	0	340	0	0	0	54	0	1,090	0	72	0
	BRITTA PKWY	17+95 BP - 19+80 BP	BRITTA PARKWAY	---	350	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	54	---
		122+76 EE - 123+54 EE	VERONA ROAD E. FRONTAGE RD	80	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		80	350	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	0
	SUBTOTALS (0010)			21,680	26,287	2,295	4,400	13	11	160	34	0	3,140	888	1,070	50	394	5	1,090	0	1,255	84
								54,880						4,028						1,090		

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PAVEMENT MARKING (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH (WHITE) LF	646.0106 EPOXY 4-INCH (YELLOW) LF	646.0106 EPOXY 4-INCH (DOUBLE YELLOW) LF	646.0106 EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (WHITE) LF	646.0106 EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (YELLOW) LF	646.0106 EPOXY 4-INCH (3' SEG. 9' GAP) (WHITE) LF	646.0106 EPOXY 4-INCH (3' SEG. 9' GAP) (YELLOW) LF	646.0106 EPOXY 4-INCH (2' SEG. 6' GAP) (WHITE) LF	646.0116 EPOXY 6-INCH (WHITE) LF	646.0126 EPOXY 8-INCH (WHITE) LF	646.0126 EPOXY 8-INCH (3' SEG. 9' GAP) (WHITE) LF	646.0406 SAME DAY EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (WHITE) LF	647.0456 CURB EPOXY LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0726 DIAGONAL EPOXY 12-INCH (YELLOW) LF	647.0726 DIAGONAL EPOXY 12-INCH (WHITE) LF	647.0766 CROSSWALK EPOXY 6-INCH LF	647.0796 CROSSWALK EPOXY 24-INCH LF
0020	CTH PB	91+49 PB - 91+74 PB	NB RUMBLE STRIP	25	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	&	93+39 PB - 93+64 PB	NB RUMBLE STRIP	25	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	CTH M	95+61 PB - 95+90 PB	NB RUMBLE STRIP	31	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+44 PB - 106+89 PB	SB EDGE LINE	630	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+45 PB	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42	---	---	---	---	---
		100+46 PB - 106+88 PB	MEDIAN EDGE LINE	---	640	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+46 PB - 104+00 PB	LT TURN LANE CHANNELIZING	---	---	---	---	---	---	---	---	---	350	---	---	---	---	---	---	---	---	---	---
		100+45 PB - 106+89 PB	LANE LINE	---	---	---	160	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		86+66 MPB - 86+96 MPB	EB RUMBLE STRIP	30	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		93+96 MPB - 94+26 MPB	EB RUMBLE STRIP	30	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		95+73 MPB - 95+98 MPB	EB RUMBLE STRIP	25	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+53 MPB	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	16	---	---	---	---	---
		100+63 MPB - 100+83 MPB	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	39	---	---	---	---	---	---	---	---	---	---
		100+61 MPB	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	21	---	---	---	---	---
		100+53 MPB - 112+50 MPB	CENTER LINE	---	---	2,390	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		103+07 MPB - 112+50 MPB	WB EDGE LINE	940	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		1,736	805	2,390	160	0	0	0	0	0	389	0	0	0	79	0	0	0	0	0
	CTH M	92+02 MFH - 99+13 MFH	WB EDGE LINE	620	---	---	---	---	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	&	92+02 MFH - 99+51 MFH	EB EDGE LINE	630	---	---	---	---	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	FISH HATCHERY	92+02 MFH - 99+51 MFH	CENTER LINE	---	50	2,590	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		93+96 MFH - 98+98 MFH	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	185	---	---	---
		98+23 MFH - 99+51 MFH	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	255	---	---	---	---	---	---	---	24	---	---
		99+52 MFH	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	34	---	---	---	---	---
		100+48 MFH	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	41	---	---	---	---	---
		100+49 MFH - 107+98 MFH	WB EDGE LINE	620	---	---	---	---	30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+88 MFH - 107+98 MFH	EB EDGE LINE	620	---	---	---	---	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+49 MFH - 107+98 MFH	CENTER LINE	---	50	2,590	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+49 MFH - 105+94 MFH	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	140	---	---	---
		100+50 MFH - 101+77 MFH	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	255	---	---	---	---	---	---	---	24	---	---
		99+51 MFH - 100+50 MFH	ISLAND NOSE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---
		99+50 FHM	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42	---	---	---	---	---
		100+50 FHM	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42	---	---	---	---	---
		93+17 FHM - 99+50 FHM	NB EDGE LINE	475	---	---	---	---	39	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		93+17 FHM - 99+23 FHM	SB EDGE LINE	520	---	---	---	---	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		93+17 FHM - 99+50 FHM	CENTER LINE	---	---	2,260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		94+89 FHM - 98+67 FHM	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	94	---	---	---
		98+22 FHM - 99+50 FHM	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	255	---	---	---	---	---	---	---	21	---	---
		100+87 FHM - 106+97 FHM	NB EDGE LINE	525	---	---	---	---	21	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+50 FHM - 106+97 FHM	SB EDGE LINE	490	---	---	---	---	39	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+50 FHM - 106+97 FHM	CENTER LINE	---	---	2,330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		101+05 FHM - 105+32 FHM	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	135	---	---	---
		100+50 FHM - 101+78 FHM	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	255	---	---	---	---	---	---	---	24	---	---
		99+50 FHM - 100+50 FHM	ISLAND NOSE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	2	---	---	---	---
		SUBTOTALS		4,500	100	9,770	0	26	222	0	0	0	1,020	0	0	0	159	4	554	93	0	0

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PAVEMENT MARKING (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH (WHITE) LF	646.0106 EPOXY 4-INCH (YELLOW) LF	646.0106 EPOXY 4-INCH (DOUBLE YELLOW) LF	646.0106 EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (WHITE) LF	646.0106 EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (YELLOW) LF	646.0106 EPOXY 4-INCH (3' SEG. 9' GAP) (WHITE) LF	646.0106 EPOXY 4-INCH (3' SEG. 9' GAP) (YELLOW) LF	646.0106 EPOXY 4-INCH (2' SEG. 6' GAP) (WHITE) LF	646.0116 EPOXY 6-INCH (WHITE) LF	646.0126 EPOXY 8-INCH (WHITE) LF	646.0126 EPOXY 8-INCH (3' SEG. 9' GAP) (WHITE) LF	646.0406 SAME DAY EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (WHITE) LF	647.0456 CURB EPOXY LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0726 DIAGONAL EPOXY 12-INCH (YELLOW) LF	647.0726 DIAGONAL EPOXY 12-INCH (WHITE) LF	647.0766 CROSSWALK EPOXY 6-INCH LF	647.0796 CROSSWALK EPOXY 24-INCH LF
0020 (CON'T)	FISH HATCHERY & WHALEN	95+84 FHW - 99+19 FHW	SB EDGE LINE	335	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		95+84 FHW - 99+52 FHW	NB EDGE LINE	320	---	---	---	---	12	---	---	---	---	---	---	---	---	---	---	---	---	---
		95+84 FHW - 99+52 FHW	CENTER LINE	---	---	735	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		98+36 FHW - 99+52 FHW	NB LT TURN CHANNELIZING	---	---	---	---	---	---	---	---	---	115	---	---	---	---	---	---	---	---	---
		100+52 FHW - 101+62 FHW	SB LT TURN CHANNELIZING	---	---	---	---	---	---	---	---	---	110	---	---	---	---	---	---	---	---	---
		100+33 FHW - 112+46 FHW	NB EDGE LINE	1,420	---	---	---	---	42	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+52 FHW - 101+62 FHW	SB RT TURN CHANNELIZING	---	---	---	---	---	---	---	---	---	110	---	---	---	---	---	---	---	---	---
		100+52 FHW - 112+46 FHW	SB EDGE LINE	1,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+52 FHW - 112+46 FHW	CENTER LINE	---	---	3,380	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		101+68 FHW - 103+00 FHW	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	23	---	---	---
		101+62 FHW - 103+00 FHW	SB RT TURN SKIP	---	---	---	---	---	---	---	---	---	---	34	---	---	---	---	---	---	---	---
		101+62 FHW - 103+00 FHW	SB BIKE LANE SKIP	---	---	---	---	---	34	---	---	---	---	---	---	---	---	---	---	---	---	---
		101+62 FHW - 102+45 FHW	SB LT TURN SKIP	---	---	---	---	---	21	---	---	---	---	---	---	---	---	---	---	---	---	---
		97+37 WFH - 99+08 WFH	EB EDGE LINE	170	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		97+37 WFH - 99+27 WFH	WB EDGE LINE	190	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		97+37 WFH - 99+62 WFH	CENTER LINE	---	---	450	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		99+62 WFH	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	37	---	---	---	---
		100+49 WFH - 100+64 WFH	WB EDGE LINE	15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+27 WFH - 100+64 WFH	CENTER LINE	---	---	74	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+27 WFH	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	17	---	---	---	---
		SUBTOTALS		3,850	0	4,639	0	0	109	0	0	0	335	34	0	0	54	0	23	0	0	0
	SEMINOLE & LACY	86+00 SL - 99+59 SL	NB EDGE LINE	1,290	---	---	---	---	18	---	---	---	---	---	---	---	---	---	---	---	---	---
		86+00 SL - 99+27 SL	SB EDGE LINE	1,270	---	---	---	---	18	---	---	---	---	---	---	---	---	---	---	---	---	---
		86+00 SL - 99+65 SL	CENTER LINE	---	---	4,370	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		90+51 SL - 99+65 SL	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	350	---	---	---
		99+59 SL	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	20	---	---	---	---
		100+92 SL - 112+75 SL	NB EDGE LINE	1,120	---	---	---	---	18	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+37 SL - 112+75 SL	SB EDGE LINE	1,240	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+37 SL - 112+75 SL	CENTER LINE	---	500	2,460	---	125	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		101+93 SL - 106+87 SL	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	115	---	---	---
		100+37 SL	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30	---	---	---	---
		100+37 SL - 101+87 SL	SB LT TURN CHANNELIZING	---	---	---	---	---	---	---	---	---	150	---	---	---	---	---	---	---	---	---
		96+85 LR - 99+52 LR	EB EDGE LINE	185	---	---	---	---	21	---	---	---	---	---	---	---	---	---	---	---	---	---
		96+85 LR - 99+34 LR	WB EDGE LINE	210	---	---	---	---	9	---	---	---	---	---	---	---	---	---	---	---	---	---
		96+85 LR - 99+53 LR	CENTER LINE	---	---	535	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		99+52 LR	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	29	---	---	---	---
		100+54 LR - 108+55 LR	EB EDGE LINE	730	---	---	---	---	18	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+88 LR - 108+55 LR	WB EDGE LINE	705	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+42 LR - 108+55 LR	CENTER LINE	---	660	---	---	205	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+42 LR	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	---	45	---	---	---	---
		100+42 LR - 103+00 LR	WB RT TURN CHANNELIZING	---	---	---	---	---	---	---	---	---	125	33	---	---	---	---	---	---	---	---
		100+42 LR - 103+67 LR	WB BIKE LANE	125	---	---	---	---	50	---	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		6,875	1,160	7,365	0	343	152	0	0	0	275	33	0	0	124	0	465	0	0	0
	SEMINOLE & CTH PD	94+72 PD - 99+35 PD	EB LT TURN CHANNELIZING	---	---	---	---	---	---	---	---	---	465	---	---	---	---	---	---	---	---	---
		SUBTOTALS		0	0	0	0	0	0	0	0	0	465	0	0	0	0	0	0	0	0	0

CON'T ON NEXT PAGE

PAVEMENT MARKING (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH (WHITE) LF	646.0106 EPOXY 4-INCH (YELLOW) LF	646.0106 EPOXY 4-INCH (DOUBLE YELLOW) LF	646.0106 EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (WHITE) LF	646.0106 EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (YELLOW) LF	646.0106 EPOXY 4-INCH (3' SEG. 9' GAP) (WHITE) LF	646.0106 EPOXY 4-INCH (3' SEG. 9' GAP) (YELLOW) LF	646.0106 EPOXY 4-INCH (2' SEG. 6' GAP) (WHITE) LF	646.0116 EPOXY 6-INCH (WHITE) LF	646.0126 EPOXY 8-INCH (WHITE) LF	646.0126 EPOXY 8-INCH (3' SEG. 9' GAP) (WHITE) LF	646.0406 SAME DAY EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (WHITE) LF	647.0456 CURB EPOXY LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0606 ISLAND NOSE EPOXY EACH	647.0726 DIAGONAL EPOXY 12-INCH (YELLOW) LF	647.0726 DIAGONAL EPOXY 12-INCH (WHITE) LF	647.0766 CROSSWALK EPOXY 6-INCH LF	647.0796 CROSSWALK EPOXY 24-INCH LF
0020 (CON'T)	SEMINOLE & SENTINEL	97+76 SP - 99+49 SP	CENTER LINE	---	---	430	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		97+57 SP - 98+24 SP	EB LT TURN LANE DASH	---	---	---	---	---	---	---	---	---	---	18	---	---	---	---	---	---	---	---	---
		98+24 SP - 99+49 SP	EB LT TURN LANE CHANNELZING	---	---	---	---	---	---	---	---	---	125	---	---	---	---	---	---	---	---	---	---
		97+57 SP - 97+78 SP	MEDIAN ISLAND	---	---	---	---	---	---	---	---	---	---	---	---	20	---	2	---	---	---	---	---
		99+49 SP	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	24	---	---	---	---	---	---
		95+87 SS - 99+52 SS	SB EDGE LINE	365	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		95+87 SS - 99+52 SS	CENTER LINE	---	---	730	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		97+77 SS - 99+52 SS	NB LT TURN LANE CHANNELIZING	---	---	---	---	---	---	---	---	---	175	---	---	---	---	---	---	---	---	---	---
		99+52 SS	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	22	---	---	---	---	---	---
		100+28 SS - 103+27 SS	CENTER LINE	---	---	1,160	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+28 SS	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	17	---	---	---	---	---	---
		100+32 SS	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	14	---	---	---	---	---	---
		100+29 SS - 103+27 SS	SB RT TURN LANE CHANNELIZING	---	---	---	---	---	---	---	---	---	200	23	---	---	---	---	---	---	---	---	---
		100+28 SS - 103+27 SS	SB BIKE LANE LANE	200	---	---	---	---	25	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+24 SS - 103+07 SS	MEDIAN CHANNELIZING	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	43	---	---	---	---
		SUBTOTALS		565	0	2,320	0	0	25	0	0	0	500	41	0	20	77	3	43	0	0	0
	SEMINOLE BETWEEN SENTINAL &CTH PD	SEMINOLE HWY.	RT/LT BIKE LANE	---	---	---	---	---	---	---	---	6,110	---	---	---	---	---	---	---	---	---	---	---
				0	0	0	0	0	0	0	0	6,110	0	0	0	0	0	0	0	0	0	0	0
SEMINOLE/YUMA & NAKOMA		98+14 N - 99+44 N	CENTER LINE	---	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		98+84 N - 99+44 N	NE BOUND LT TURN CHANNELIZING	---	---	---	---	---	---	---	---	---	60	---	---	---	---	---	---	---	---	---	---
		99+44 N	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	25	---	---	---	---	---	---
		99+48 N - 99+57 N	CROSSWALK	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	78	---
		100+36 N - 103+06 N	CENTER LINE	---	---	540	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+36 N - 102+36 N	SW BOUND LT TURN CHANNELIZING	---	---	---	---	---	---	---	---	---	120	---	---	---	---	---	---	---	---	---	---
		100+36 N	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	29	---	---	---	---	---	---
		100+23 N - 100+32 N	CROSSWALK	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	97	---
		99+14 SN - 99+52 SN	CENTER LINE	---	---	74	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		99+14 SN - 99+60 SN	NE BOUND RT TURN CHANNELIZING	---	---	---	---	---	---	---	---	---	48	---	---	---	---	---	---	---	---	---	---
		99+14 SN - 99+58 SN	NE BOUND BIKE LANE	44	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		99+60 SN	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	29	---	---	---	---	---	---
		99+60 SN - 99+69 SN	CROSSWALK	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	93	---
		100+38 SN - 100+66 SN	CENTERLINE	---	---	55	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		100+38 SN	STOP LINE	---	---	---	---	---	---	---	---	---	---	---	---	---	22	---	---	---	---	---	---
		100+27 SN - 100+34 SN	CROSSWALK	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	95	---
		SUBTOTALS		44	0	929	0	0	0	0	0	0	228	0	0	0	105	0	0	0	363	0
WHITNEY & GILBERT		95+44 W - 98+57 W	NB TURN LANE CHANNELIZING	125	---	---	---	---	---	---	---	---	76	45	---	---	---	---	---	---	---	---	---
		98+57 W	CROSSWALK	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	18	---
		99+17 W - 103+95 W	NB TURN LANE CHANNELIZING	---	---	---	---	---	---	---	---	---	555	---	---	---	---	---	---	---	---	---	---
		99+13 W - 101+73 W	SB LT TURN LANE CHANNELIZING	---	---	---	---	---	---	---	---	---	265	---	---	---	---	---	---	---	---	---	---
		SUBTOTALS		125	0	0	0	0	0	0	0	0	896	45	0	0	0	0	0	0	18	0
		SUBTOTALS (0020)		17,695	2,065	27,413	160	369	508	0	0	6,110	4,108	153	0	20	598	7	1,085	93	381	0
								48,210						4,261						1,178		
		TOTALS		39,375	28,352	29,708	4,560	382	519	160	34	6,110	7,248	1,041	1,070	70	992	12	2,175	93	1,636	84
								103,090						8,289						2,268		

PAVEMENT MARKING ARROWS, SYMBOLS, WORDS

CATEGORY	PROJECT LOCATION	STATION	LOCATION	647.0166 ARROWS EPOXY TYPE 2 (WHITE) EACH	647.0206 ARROWS BIKE LANE EPOXY EACH	647.0306 SYMBOLS BIKE LANE EPOXY EACH	647.0356 WORDS EPOXY EACH
0010	WEST BELTLINE FRONTAGE ROAD	79+79 SF	WB BIKE LANE	---	1	---	---
		79+91 SF	WB BIKE LANE	---	---	1	---
		80+77 SF	WB BIKE LANE	---	1	---	---
		80+89 SF	WB BIKE LANE	---	---	1	---
		SUBTOTALS		0	2	2	0
	B-13-664	8+94 SH	NB BIKE LANE	---	---	1	---
		9+06 SH	NB BIKE LANE	---	1	---	---
		9+22 SH	SB LT TURN LANE	1	---	---	---
		9+99 SH	SB LT TURN LANE	1	---	---	---
		10+87 SH	NB LT TURN LANE	1	---	---	---
		10+93 SH	SB BIKE LANE	---	1	---	---
		11+05 SH	SB BIKE LANE	---	---	1	---
		SUBTOTALS		3	2	2	0
	VERONA RD	988+71 VR	WB TURN LANES	2	---	---	---
		989+52 VR	WB TURN LANES	---	---	---	2
		990+32 VR	WB RT TURN LANE	1	---	---	---
		995+06 VR	WB LT TURN LANE	---	---	---	1
		995+53 VR	WB LT TURN LANE	1	---	---	---
		SUBTOTALS		4	0	0	3
		SUBTOTALS (0010)		7	4	4	3
0020	CTH PB & CTH M	100+74 PB	SB LT TURN LANE	1	---	---	---
		101+14 PB	SB LT TURN LANE	---	---	---	1
		102+19 PB	SB LT TURN LANE	1	---	---	---
		103+32 PB	SB LT TURN LANE	---	---	---	1
		103+80 PB	SB LT TURN LANE	1	---	---	---
		SUBTOTALS		3	0	0	2
	CTH M & FISH HATCHERY	98+43 MFH	EB LT TURN LANE	1	---	---	---
		98+82 MFH	EB LT TURN LANE	---	---	---	1
		99+22 MFH	EB LT TURN LANE	1	---	---	---
		100+78 MFH	WB LT TURN LANE	1	---	---	---
		101+17 MFH	WB LT TURN LANE	---	---	---	1
		101+57 MFH	WB LT TURN LANE	1	---	---	---
		98+42 FHM	NB LT TURN LANE	1	---	---	---
		98+82 FHM	NB LT TURN LANE	---	---	---	1
		99+21 FHM	NB LT TURN LANE	1	---	---	---
		100+79 FHM	SB LT TURN LANE	1	---	---	---
		101+19 FHM	SB LT TURN LANE	---	---	---	1
		101+58 FHM	SB LT TURN LANE	1	---	---	---
		SUBTOTALS		8	0	0	4
	FISH HATCHERY & WHALEN	98+56 FHW	NB LT TURN LANE	---	---	---	1
		99+24 FHW	NB LT TURN LANE	1	---	---	---
		100+80 FHW	SB LT TURN LANE	1	---	---	---
		100+80 FHW	SB RT TURN LANE	1	---	---	---
		101+42 FHW	SB LT TURN LANE	---	---	---	1
		101+42 FHW	SB RT TURN LANE	---	---	---	1
		99+03 FHW	SB BIKE LANE	---	1	---	---
		99+15 FHW	SB BIKE LANE	---	---	1	---
		100+83 FHW	NB BIKE LANE	---	---	1	---
		100+95 FHW	NB BIKE LANE	---	1	---	---
		101+46 FHW	SB BIKE LANE	---	1	---	---
		101+58 FHW	SB BIKE LANE	---	---	1	---
		SUBTOTALS		3	3	3	3

CON'T ABOVE

PAVEMENT MARKING ARROWS, SYMBOLS, WORDS (CON'T)

CATEGORY	PROJECT LOCATION	STATION	LOCATION	647.0166 ARROWS EPOXY TYPE 2 (WHITE) EACH	647.0206 ARROWS BIKE LANE EPOXY EACH	647.0306 SYMBOLS BIKE LANE EPOXY EACH	647.0356 WORDS EPOXY EACH
0020 (CONT.)	SEMINOLE & LACY	100+65 SL	SB LT TURN LANE	1	---	---	---
		101+17 SL	SB LT TURN LANE	---	---	---	1
		101+67 SL	SB LT TURN LANE	1	---	---	---
		101+67 SL	NB BIKE LANE	---	---	1	---
		101+79 SL	NB BIKE LANE	---	1	---	---
		100+53 LR	WB BIKE LANE	---	1	---	---
		100+65 LR	WB BIKE LANE	---	---	1	---
		100+70 LR	WB RT TURN LANE	1	---	---	---
		101+47 LR	WB RT TURN LANE	1	---	---	---
		101+50 LR	EB BIKE LANE	---	1	---	---
		101+62 LR	EB BIKE LANE	---	---	1	---
		SUBTOTALS		4	3	3	1
	SEMINOLE & CTH PD	94+92 PD	EB LT TURN LANE	1	---	---	---
		95+32 PD	EB LT TURN LANE	---	---	---	1
		96+83 PD	EB LT TURN LANE	1	---	---	---
		SUBTOTALS		2	0	0	1
	SEMINOLE & SENTINEL	98+82 SP	EB LT TURN LANE	---	---	---	1
		99+21 SP	EB LT TURN LANE	1	---	---	---
		97+97 SS	NB LT TURN LANE	1	---	---	---
		98+59 SS	NB LT TURN LANE	---	---	---	1
		99+22 SS	NB LT TURN LANE	1	---	---	---
		100+64 SS	SB RT TURN LANE	1	---	---	---
		101+36 SS	SB RT TURN LANE	---	---	---	1
		102+08 SS	SB RT TURN LANE	1	---	---	---
		99+34 SS	SB BIKE LANE	---	1	---	---
		99+46 SS	SB BIKE LANE	---	---	1	---
		100+41 SS	SB BIKE LANE	---	1	---	---
		100+53 SS	SB BIKE LANE	---	---	1	---
		102+10 SS	SB BIKE LANE	---	1	---	---
		102+22 SS	SB BIKE LANE	---	---	1	---
		SUBTOTALS		5	3	3	3
	SEMINOLE/YUMA & NAKOMA	99+04 N	NB LT TURN LANE	1	---	---	---
		100+64 N	SB LT TURN LANE	1	---	---	---
		101+38 N	SB LT TURN LANE	---	---	---	1
		102+16 N	SB LT TURN LANE	1	---	---	---
		99+33 SN	WB RT TURN LANE	1	---	---	---
		SUBTOTALS		4	0	0	1
		SUBTOTALS (0020)		29	9	9	15
		TOTALS		36	13	13	18

PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	646.0881.S 4-INCH (WHITE SKIP) (12.5' SEG. 37.5' GAP) LF	646.0883.S 8-INCH LF	646.0883.S 8-INCH (WHITE SKIP) (3' SEG. 9' GAP) LF
0010	WEST BELTLINE WIDENING	1023+21 - 1080+01	RT	1,420	---	---
		1026+10 - 1081+62	LT	2,390	1,390	285
		SUBTOTALS		3,810	1,390	285
					1,675	
	BELTLINE STORM SEWER CROSSING	1125+18 - 1126+47	LT	---	89	---
		SUBTOTALS		0	89	0
					89	
			TOTALS	3,810	1,764	

TEMPORARY PAVEMENT MARKING

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	646.0600 REMOVING PAVEMENT MARKINGS LF	649.0200 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE) LF	649.0200 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW) LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE) LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW) LF	649.0600 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH (WHITE) LF	649.0801 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE) LF	649.2100 TEMPORARY RAISED PAVEMENT MARKERS EACH
0010	WEST BELTLINE WIDENING	1022+42 - 1080+51	WB CENTER LINE & MEDIAN EDGE	7,320	---	---	---	---	---	---	---
		1023+22 - 1080+01	EB CENTER LINE & MEDIAN EDGE	7,120	---	---	---	---	---	---	---
		1022+42 - 1080+51	WB CENTER LINE & MEDIAN EDGE	---	1,770	5,850	---	---	---	---	16
		1023+22 - 1080+01	EB CENTER LINE & MEDIAN EDGE	---	1,720	5,700	---	---	---	---	16
		1022+42 - 1080+51	WB CENTER & MEDIAN LINE	7,620	---	---	---	---	---	---	---
		1023+22 - 1080+01	EB CENTER & MEDIAN LINE	7,420	---	---	---	---	---	---	---
		1022+42 - 1026+10	WB OFF RAMP	415	---	---	---	---	---	---	---
		1065+75 - 1080+58	WB EDGE LINE	2,180	---	---	---	---	---	---	---
		76+24 L - 76+51 L	WB ON RAMP AND GORE	1,800	---	---	---	---	---	---	---
		1022+42 - 1066+73	WB EDGE LINE	---	3,390	---	1,060	---	---	---	---
		1023+52 - 1081+58	WB CENTER LINE	---	1,260	---	1,070	---	---	---	43
		1073+98 - 1080+58	WB MEDIAN LINE	---	---	---	---	660	---	---	---
		1064+91 - 1067+34	WB ON RAMP SKIP	---	---	---	61	---	---	---	---
		1067+34 - 1072+48	WB EDGE LINE & ON RAMP GORE	---	---	---	810	---	---	515	---
		66+72 L - 76+54 L	WB EDGE LINE	---	---	---	980	---	---	---	---
		72+46 L - 76+79 L	ON RAMP MEDIAN LINE & RAMP GORE	---	---	---	---	435	---	515	---
		1022+42 - 1081+58	WB EDGE, GORE, CENTER, & MEDIAN LINES	4,650	---	---	---	---	---	---	---
		1022+43 - 1081+59	EXISTING WB SHOULDER EDGE LINE	3,610	---	---	---	---	---	---	---
		SUBTOTALS		42,135	8,140	11,550	3,981	1,095	0	1,030	75
	WEST BELTLINE FRONTAGE ROAD	1167+07 - 1197+78	EB MEDIAN EDGE LINE & CENTER SKIPS	4,600	---	---	---	---	---	---	---
		1167+07 - 1199+84	EB SHOULDER EDGE LINE, ON RAMP GORE, OUTSIDE SKIPS	2,510	---	---	---	---	---	---	---
		1167+07 - 1199+84	EB	---	7,230	2,410	2,190	660	---	---	53
		83+78 SF - 83+98 SF	CROSSWALK	---	---	---	---	---	52	---	---
		1167+07 - 1199+84	EB	9,640	---	---	---	---	---	---	---
		SUBTOTALS		16,750	7,230	2,410	2,190	660	52	0	53
	SAND & TRASH COLLECTOR	1187+39 - 1210+74	WB	5,600	---	---	---	---	---	---	---
		1087+39 - 1210+74	WB EDGE & LANE LINES	---	3,740	1,250	2,970	990	---	---	79
		1087+39 - 1210+74	WB TEMPORARY LINES	4,990	---	---	---	---	---	---	---
		SUBTOTALS		10,590	3,740	1,250	2,970	990	0	0	79
	TODD DRIVE STORM SEWER	1+83 TD - 13+13 TD	RT	---	---	---	1,130	---	---	---	---
		SUBTOTALS		0	0	0	1,130	0	0	0	0
	B-13-664	1155+46 - 1167+07	EB ON RAMP GORE, MEDIAN EDGE LINE, CENTER LINE(S)	1,790	---	---	---	---	---	---	---
		1159+86 - 1167+07	EB SHOULDER EDGE LINE	735	---	---	---	---	---	---	---
		1164+14 - 1185+37	WB SHOULDER EDGE LINE, OFF RAMP GORE, RAMP SKIPS	2,270	---	---	---	---	---	---	---
		1164+14 - 1183+80	WB CENTER LINES, MEDIAN EDGE LINE	2,940	---	---	---	---	---	---	---
		1155+46 - 1167+07	EB ON RAMP GORE, MEDIAN EDGE LINE, CENTER LINE(S)	---	3,320	1,650	1,420	660	---	---	57
		1159+86 - 1167+07	EB SHOULDER EDGE LINE	---	1,650	---	330	---	---	---	---
		1164+14 - 1185+37	WB SHOULDER EDGE LINE, OFF RAMP GORE, RAMP SKIPS	---	950	---	485	---	---	220	---
		1164+14 - 1183+80	WB CENTER LINES, MEDIAN EDGE LINE	---	2,600	1,300	1,320	665	---	---	53
		1155+46 - 1167+07	EB	4,970	---	---	---	---	---	---	---
		1164+14 - 1187+39	WB	4,290	---	---	---	---	---	---	---
		1179+99 - 1179+44	WB OFF RAMP CHEVRON MARKINGS	175	---	---	---	---	---	---	---
		SUBTOTALS		17,170	8,520	2,950	3,555	1,325	0	220	110
	VERONA RD	975+15 VR - 996+00 VR	WB EDGE LINE	---	---	---	1,820	---	---	---	---
		86+96 WN - 87+08 WN	CROSSWALK	325	---	---	---	---	---	---	---
		SUBTOTALS		325	0	0	1,820	0	0	0	0
	FREEPORT RD	11+35 BI - 14+75 BI	CENTER LINE	650	---	650	---	---	---	---	---
		SUBTOTALS		650	0	650	0	0	0	0	0
		SUBTOTALS (0010)		87,620	27,630	18,810	15,646	4,070	52	1,250	317
					46,440		19,716				
0020	WHITNEY WAY & GILBERT RD	95+44 W - 98+36 W	TURN LANE EDGE LINE	305	---	---	---	---	---	---	---
		SUBTOTALS (0020)		305	0	0	0	0	0	0	0
			TOTALS	87,925	46,440		19,716		52	1,250	317

CONSTRUCTION STAKING

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.8000 RESURFACING REFERENCE LF	650.9920 SLOPE STAKES LF	SPV.0060.07 CURB RAMP EACH
0010	WEST BELTLINE WIDENING	1007+10	LT	---	---	---	---	---
		1019+50	RT	---	---	---	---	---
		1030+00	LT	---	---	---	---	---
		1054+50	LT	---	---	---	---	---
		1025+00 - 1077+41	WB	5,240	5,240	---	5,240	---
		1026+33 - 1077+41	EB	5,110	5,110	---	5,110	---
		1026+10 - 1036+22	LT/RT	1,010	1,010	---	1,010	---
		1053+85 - 1066+72	LT/RT	1,290	1,290	---	1,290	---
		66+72 L - 76+24 L	LT/RT	950	950	---	950	---
		SUBTOTALS (0010)		13,600	13,600	0	13,600	0
	BELTLINE STORM SEWER CROSSING	POND ACCESS PATH	LT/RT	460	460	---	460	---
		SUBTOTALS (0010)		460	460	0	460	0
	WEST BELTLINE FRONTAGE ROAD	1187+00	RT	---	---	---	---	---
		1176+70 - 1193+73	LT/RT	1,700	1,700	---	1,700	---
		1175+78 S - 1182+12 S	LT/RT	635	635	---	635	---
		71+07 SF - 89+50 SF	LT/RT	1,840	1,840	---	1,840	2
		SUBTOTALS (0010)		4,175	4,175	0	4,175	2
	SAND & TRASH COLLECTOR	1192+59 - 1197+34	LT	475	475	---	475	---
		SUBTOTALS (0010)		475	475	0	475	0
	TODD DRIVE STORM SEWER	11+07 TD - 11+55 TD	RT	48	48	---	---	---
		SUBTOTALS (0010)		48	48	0	0	0
	VERONA RD	975+15 VR - 986+85 VR	LT	1,170	1,170	---	---	---
		982+00 VR - 986+85 VR	LT	---	---	---	485	---
		SUBTOTALS (0010)		1,170	1,170	0	485	0
	FREEPORT ROAD	11+11 FP - 21+47 FP	LT/RT	1,040	1,040	---	1,040	---
		9+99 BI - 15+75 BI	LT/RT	575	575	---	575	---
		10+00 TL - 11+00 TL	LT/RT	98	98	---	98	2
		10+12 CW - 11+88 CW	LT/RT	175	175	---	175	---
		SUBTOTALS (0010)		1,888	1,888	0	1,888	2
	NIEMANN PL	17+36 BP - 19+81 BP	LT/RT	245	245	---	245	2
		10+00 NP - 10+93 NP	LT/RT	100	100	---	100	---
		SUBTOTALS (0010)		345	345	0	345	2
	U-HAUL PARKING LOT	10+00 UH - 13+50 UH	LT/RT	350	350	---	350	---
		SUBTOTALS (0010)		350	350	0	350	0
	WARWICK WAY	50+75 WW - 53+50 WW	LT/RT	275	275	---	275	2
		SUBTOTALS (0010)		275	275	0	275	2
	ITS	1212+46	LT/RT	---	---	---	---	---
		1386+84 JN	LT/RT	---	---	---	---	---
		SUBTOTALS (0010)		0	0	0	0	0
		TOTAL (0010)		22,786	22,786	0	22,053	8
								CON'T ABOVE

CONSTRUCTION STAKING (CONT.)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.8000 RESURFACING REFERENCE LF	650.9920 SLOPE STAKES LF	SPV.0060.07 CURB RAMP EACH
0020	CTH PB & CTH M	101+54 PB - 105+26 PB	LT/RT	370	370	---	---	---
		101+15 MPB - 103+17 MPB	LT/RT	200	200	---	200	---
		SUBTOTALS (0020)		570	570	0	200	0
	CTH M & FISH HATCHERY	92+02 MFH - 107+98 MFH	LT/RT	1,600	1,600	1,600	1,600	---
		93+06 FHM - 99+73 FHM	LT/RT	665	665	665	665	---
		100+28 FHM - 106+97 FHM	LT/RT	670	670	670	670	---
		SUBTOTALS (0020)		2,935	2,935	2,935	2,935	0
	FISH HATCHERY & WHALEN	95+84 FHW - 108+58 FHW	LT/RT	1,270	1,270	1,270	1,270	---
		97+37 WFH - 99+27 WFH	LT/RT	190	190	190	190	---
		SUBTOTALS (0020)		1,460	1,460	1,460	1,460	0
	SEMINOLE & LACY	90+54 SL - 107+03 SL	LT/RT	1,650	1,650	1,650	1,650	---
		96+85 LR - 99+50 LR	LT/RT	265	265	265	265	---
		100+50 LR - 103+53 LR	LT/RT	305	305	305	305	---
		SUBTOTALS (0020)		2,220	2,220	2,220	2,220	0
	SEMINOLE & CTH PD	93+47 PD - 98+00 PD	LT/RT	455	455	---	---	---
		SUBTOTALS (0020)		455	455	0	0	0
	SEMINOLE & SENTINEL	95+87 SS - 103+27 SS	LT/RT	740	740	---	740	---
		97+07 SP - 99+70 SP	LT/RT	265	265	---	265	---
		SUBTOTALS (0020)		1,005	1,005	0	1,005	0
	WHITNEY & GILBERT	97+12 W - 98+60 W	LT/RT	150	150	---	---	---
		96+73 W	RT	---	---	---	---	---
		100+00 W - 102+62 W	LT/RT	260	260	---	---	---
		SUBTOTALS (0020)		410	410	0	0	0
		TOTALS (0020)		9,055	9,055	6,615	7,820	0
0050	WHITNEY WAY BIKE PATH	64+50 WP - 76+48 WP	LT/RT	1,200	1,200	---	1,200	1
		TOTALS (0050)		1,200	1,200	0	1,200	1
		TOTALS		33,041	33,041	6,615	31,073	9

CONSTRUCTION STAKING SIGN STRUCTURE

CATEGORY	STRUCUTRE	SPV.0060.08 .01 LS	.02 LS	.03 LS	.04 LS	.05 LS	.06 LS	.07 LS	.08 LS
0020	S-13-424	1	---	---	---	---	---	---	---
0120	S-13-384	---	1	---	---	---	---	---	---
0130	S-13-394	---	---	1	---	---	---	---	---
0140	S-13-395	---	---	---	1	---	---	---	---
0150	S-13-376	---	---	---	---	1	---	---	---
0160	S-13-383	---	---	---	---	---	1	---	---
0170	S-13-406	---	---	---	---	---	---	1	---
0180	S-13-407	---	---	---	---	---	---	---	1
	TOTALS	1	1	1	1	1	1	1	1

REMOVING CONCRETE BASES

CATEGORY	LOCATION	BASE NO.	STATION	EQUIP. LOCATION	*204.0195 EACH
0010	WEST BELTLINE FRONTAGE ROAD	EXLP-1	1181+35	92.84'RT	1
		EXLP-2	1182+60	85.86'RT	1
		EXLP-3	1183+89	82.82'RT	1
		EXLP-4	1185+20	79.37'RT	1
		EXLP-5	1186+50	78.37'RT	1
		EXLP-6	1187+80	75.15'RT	1
		EXLP-7	1189+12	79.83'RT	1
		SUBTOTAL (0010)			7
	USH 12/14 (BELTLINE)	EXLP-8	1064+02	77.78'LT	1
		EXLP-9	1065+73	80.72'LT	1
		EXLP-10	1067+33	82.95'LT	1
		EXLP-11	1068+94	84.59'LT	1
		EXLP-12	1070+49	86+97'LT	1
		SUBTOTAL (0010)			5
	WB USH 12/14/18/151	EXLP-14	1125+08	75.88'LT	1
		EXLP-25	1126+55	77.14'RT	1
		SUBTOTAL (0010)			2
	WEST VERONA RD FRONTAGE RD	EXLP-17	20+71 FP	45.69'LT	1
		SUBTOTAL (0010)			1
	FREEPORT RD	EXLP-20	17+76 FP	12.08' LT	1
		EXLP-21	16+34 FP	28.18'RT	1
		EXLP-22	14+84 FP	18.39'LT	1
		SUBTOTAL (0010)			3
	WB USH 18/151	EXLP-34	989+92 VR	64.28'LT	1
		SUBTOTAL (0010)			1
	SEMINOLE HWY/USH 12/14/18/151	EXSB-1	8+93 SH	31.3' LT	1
		EXSB-2	11+06 SH	27.1' RT	1
		SUBTOTAL (0010)			2
		TOTAL (0010)			21
0020	CTH PD AT SEMINOLE HIGHWAY	EXLP-36	94+91 PD	3.95'RT	1
		EXLP-37	97+30 PD	0.54'RT	1
		TOTAL (0020)			2
				TOTAL	23

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONDUIT RIGID SUMMARY

CATEGORY	LOCATION	EQUIP. LOCATION FROM	EQUIP. LOCATION TO	*652.0225 NONMETALLIC SCHEDULE 40 2-INCH LF
0010	WEST BELTLINE FRONTAGE ROAD	LP-1	LP-2	125
		LP-2	LP-3	130
		LP-3	LP-4	130
		LP-4	LP-5	130
		LP-5	LP-6	140
		LP-6	LP-7	130
		LP-7	90+49 SF	130
		SUBTOTAL (0010)		915
	USH 12/14 (BELTLINE)	LP-8	1064+11	11
		1065+59	LP-9	11
		LP-9	1065+85	11
		67+19 L	LP-10	11
		LP-10	67+45 L	11
		68+83 L	LP-11	11
		LP-11	69+41 L	46
		70+41 L	LP-12	11
		LP-12	70+59 L	11
		SUBTOTAL (0010)		134
		TOTAL (0010)		1,049
0020	CTH PD AT SEMINOLE HIGHWAY	94+25 PD	LP-15	65
		TOTALS (0020)		65
		TOTALS		1,114

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

INSTALL CONDUIT INTO EXISTING ITEM

CATEGORY	LOCATION	STATION	EQUIP. LOCATION	*652.0700.S EACH
0010	WEST BELTLINE FRONTAGE ROAD	1190+55	84.20'RT	1
		SUBTOTAL (0010)		1
	USH 12/14 (BELTLINE)	1064+11	78.01'LT	1
		1065+59	80.58'LT	1
		1065+85	80.58'LT	1
		1066+19	82.45'LT	1
		1066+39	83.08'LT	1
		1068+83	84.51'LT	1
		1069+51	85.58'LT	1
		1070+34	87.18'LT	1
		1070+58	87.18'LT	1
		SUBTOTAL (0010)		9
	WEST VERONA RD FRONTAGE RD DETENTION BASIN A	21+01 FP	31.91'LT	1
		SUBTOTAL (0010)		1
		TOTAL (0010)		11
0020	CTH PD AT SEMINOLE HIGHWAY	94+25 PD	5.00'RT	1
		97+45 PD	0.50'RT	1
		TOTAL (0020)		2
			TOTAL	13

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

ELECTRICAL WIRE LIGHTING

CATEGORY	LOCATION	EQUIP. LOCATION FROM	EQUIP. LOCATION TO	655.0620 8 AWG LF	655.0620 8 AWG (GROUND) LF	655.0630 4 AWG LF	655.0630 4 AWG (GROUND) LF	655.0635 2 AWG LF	655.0635 2 AWG (GROUND) LF
0010	WEST BELTLINE FRONTAGE ROAD	LP-1	LP-2	---	---	250	125	---	---
		LP-2	LP-3	---	---	515	130	---	---
		LP-3	LP-4	---	---	525	130	---	---
		LP-4	LP-5	---	---	520	130	---	---
		LP-5	LP-6	---	---	560	140	---	---
		LP-6	LP-7	---	---	525	130	---	---
		LP-7	EXLC-1	---	---	1310	330	---	---
		SUBTOTALS (0010)		0	0	4,205	1,115	0	0
	USH 12/14 (BELTLINE)	LP-8	LP-9	345	170	---	---	---	---
		LP-9	LP-10	325	160	---	---	---	---
		LP-10	LP-11	325	160	---	---	---	---
		LP-11	LP-12	320	160	---	---	---	---
		LP-12	EXLP-13	320	160	---	---	---	---
		SUBTOTALS (0010)		1,635	810	0	0	0	0
		TOTALS (0010)		1,635	810	4,205	1,115	0	0
0020	CTH PD AT SEMINOLE HIGHWAY	LP-15	1.00'LT	---	---	---	---	800	200
		LP-16	0.20'LT	---	---	---	---	620	155
		TOTALS (0020)		0	0	0	0	1,420	355
		TOTALS		1,635	810	4,205	1,115	1,420	355
				2,445		5,320		1,775	

STREET LIGHTING SUMMARY (POLE LUMINAIRE)

CATEGORY	LOCATION	BASE NO.	STATION	EQUIP. LOCATION	*654.0105 CONCRETE BASES TYPE 5 EACH	*655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	*655.0610 ELECTRICAL WIRE LIGHTING 12 AWG (GROUND) LF	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	*657.0322 POLES TYPE 5 - ALUMINUM EACH	657.0710 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12 FT EACH	659.0115 LUMINAIRES UTILITY HPS 150 WATTS EACH
0010	WEST BELTLINE FRONTAGE ROAD	LP-1	1181+36	95.57'RT	1	100	50	---	---	---	---
		LP-2	1182+60	91.06'RT	1	100	50	---	---	---	---
		LP-3	1183+89	88.45'RT	1	100	50	---	---	---	---
		LP-4	1185+20	85.72'RT	1	100	50	---	---	---	---
		LP-5	1186+50	85.80'RT	1	100	50	---	---	---	---
		LP-6	1187+81	85.97'RT	1	100	50	---	---	---	---
		LP-7	1189+15	85.95'RT	1	100	50	---	---	---	---
		SUBTOTALS (0010)			7	700	350	0	0	0	0
	USH 12/14 (BELTLINE)	LP-8	1064+02	81.92'LT	1	100	50	1	1	1	1
		LP-9	1065+73	84.72'LT	1	100	50	1	1	1	1
		LP-10	1067+33	86.49'LT	1	100	50	1	1	1	1
		LP-11	1068+94	88.87'LT	1	100	50	1	1	1	1
		LP-12	1070+49	90.35'LT	1	100	50	1	1	1	1
		SUBTOTALS (0010)			5	500	250	5	5	5	5
	WEST VERONA RD FRONTAGE RD	LP-13	21+01 FP	31.91'LT	1	100	50	---	---	---	---
		SUBTOTALS (0010)			1	100	50	0	0	0	0
		TOTALS (0010)			13	1,300	650	5	5	5	5
0020	CTH PD AT SEMINOLE HIGHWAY	LP-15	94+89 PD	1.00'LT	1	200	100	---	---	---	---
		LP-16	93+10 PD	0.20'LT	1	200	100	---	---	---	---
		TOTALS (0020)			2	400	200	0	0	0	0
		TOTALS			15	2,550		5	5	5	5

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

REMOVE OR RELOCATE EXISTING LIGHT POLE ASSEMBLY

CATEGORY	LOCATION	BASE NO.	STATION	EQUIP. LOCATION	SPV.0060.02 REMOVE EXISTING CITY-OWNED LIGHT POLE ASSEMBLY EACH	SPV.0060.03 REMOVE EXISTING WISDOT-OWNED LIGHT POLE ASSEMBLY EACH	SPV.0060.04 RELOCATING EXISTING LIGHT POLE ASSEMBLY EACH
0010	WEST BELTLINE FRONTAGE ROAD	EXLP-1	1181+35	92.84'RT	---	---	1
		EXLP-2	1182+60	85.86'RT	---	---	1
		EXLP-3	1183+89	82.82'RT	---	---	1
		EXLP-4	1185+20	79.37'RT	---	---	1
		EXLP-5	1186+50	78.37'RT	---	---	1
		EXLP-6	1187+80	75.15'RT	---	---	1
		EXLP-7	1189+12	79.83'RT	---	---	1
		SUBTOTALS (0010)			0	0	7
	USH 12/14 (BELTLINE)	EXLP-8	1064+02	77.78'LT	1	---	---
		EXLP-9	1065+73	80.72'LT	1	---	---
		EXLP-10	1067+33	82.95'LT	1	---	---
		EXLP-11	1068+94	84.59'LT	1	---	---
		EXLP-12	1070+49	86+97'LT	1	---	---
		SUBTOTALS (0010)			5	0	---
	WB USH 12/14/18/151	EXLP-14	1125+08	75.88'LT	---	1	---
		EXLP-25	1126+55	77.14'RT	---	1	---
		SUBTOTALS (0010)			---	2	---
	WEST VERONA RD FRONTAGE RD	EXLP-17	20+71 FP	45.69'LT	---	---	1
		SUBTOTALS (0010)			0	0	1
	FREEPORT CONNECTION	EXLP-20	17+76 FP	12.08' LT	1	---	---
		EXLP-21	16+34 FP	28.18'RT	1	---	---
		EXLP-22	14+84 FP	18.39'LT	1	---	---
		SUBTOTALS (0010)			3	0	---
	WB USH 18/151	EXLP-34	989+92 VR	64.28'LT	1	---	---
		SUBTOTALS (0010)			1	0	---
		TOTALS (0010)			9	2	8
0020	CTH PD AT SEMINOLE HIGHWAY	EXLP-36	94+91 PD	3.95'RT	---	---	1
		EXLP-37	97+30 PD	0.54'RT	---	---	1
		TOTALS (0020)			0	0	2
				TOTALS	9	2	10

POSTS WOOD 4X6-INCH X 20-FT

CATEGORY	LOCATION	*634.0620 EACH	REMARKS
0040	UNDISTRIBUTED	15	WIRELESS DETECTION SENSOR INSTALLATION
	TOTAL	15	

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

SIDEMOUNT DMS SUMMARY

CATEGORY	DMS NO.	LOCATION		635.0200 SIGN SUPPORTS STRUCTURAL STEEL HS LB	636.0100 SIGN SUPPORTS CONCRETE MASONRY CY	636.0500 SIGN SUPPORTS STEEL REINFORCEMENT LB
0040	DMS-13-0037	654+50 AP	98' RT	2,000	3.0	190

ITS CONDUIT SUMMARY

CATEGORY	LOCATION	FROM	TO	652.0125 CONDUIT RIGID METALLIC 2-INCH LF	*652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	*652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	*652.0605 CONDUIT SPECIAL 2-INCH LF	*652.0615 CONDUIT SPECIAL 3-INCH LF
0040	MILITARY RIDGE PATH	EXCV-01	EXPB01	---	---	---	445	---
	CCTV-13-0061	CP61-01	PB61-03	9	---	18	---	---
		PB61-03	EXPB61-03	---	70	70	---	---
		EXPB61-03	EXPB61-02	---	33	33	---	---
		EXPB61-02	PB61-02	---	---	---	49	98
		PB61-02	PB61-01	---	225	450	---	---
		PB61-01	EXPB61-01	---	225	450	---	---
	CCTV-13-0062	CV62-01	STUB	---	---	18	---	---
		CV62-01	STUB	---	---	21	---	---
		CV62-01	PB62-01	---	---	54	---	---
		PB62-01	EXPB62-03	---	---	---	---	40
		EXPB62-02	PB62-02	---	---	75	---	---
		EXPB62-01	CP62-01	10	---	20	---	---
		EXPB62-01	PB62-03	---	---	---	64	---
		PB62-03	CB62-01	---	14	---	---	---
	CCTV-13-0063	CP63-01	EXPB63-01	---	54	---	---	---
	DMS-13-0037	MB37-01	PB37-01	---	34	---	---	---
	DMS-13-0031	MB31-01	PB31-01	---	72	---	---	---
		PB31-01	CB31-01	---	58	---	---	---
	DMS-13-0032/0033	EXMB32-01	PB32-01	---	32	---	---	---
		PB32-01	PB32-02	---	---	---	38	---
		PB32-02	PB32-03	---	165	---	---	---
		PB32-03	PB32-04	---	160	---	---	---
		PB32-04	PB32-05	---	---	400	---	---
		PB32-05	CB32-01	---	38	---	---	---
		PB32-04	JB32-01	---	---	---	---	170
		JB32-01	DMS-13-0032/0033	---	72	---	---	---
	DMS-13-0034/0035	MB34-01	PB34-01	---	17	---	---	---
		PB34-01	PB34-02	---	240	---	---	---
		PB34-02	PB34-03	---	240	---	---	---
		PB34-03	CB34-01	---	24	---	---	---
		PB34-03	JB34-01	---	---	---	---	190
		JB34-01	DMS-13-0034/0035	---	72	---	---	---
	DMS-13-0036	MB36-01	PB36-01	---	33	---	---	---
		PB36-01	CB36-01	39	---	---	---	---
	PCMS-13-1038	MB38-01	PB38-01	---	74	---	---	---
		PB38-01	OUTDOOR SERVICE PEDESTAL	---	12	---	---	---
	PCMS-13-1039	MB39-01	PB39-01	---	84	---	---	---
		PB39-01	OUTDOOR SERVICE PEDESTAL	---	12	---	---	---
			TOTALS	58	2,060	1,609	596	498

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

ITS PULL BOX SUMMARY

CATEGORY	LOCATION	EQUIP. LOCATION	STATION	OFFSET	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	*653.0135 PULL BOXES STEEL 24X36-INCH EACH	653.0140 PULL BOXES STEEL 24X42-INCH EACH	653.0222 JUNCTION BOXES 18X12X6-INCH EACH	*SPV.0060.44 PULL BOX MARKER EACH
0040	CCTV-13-0061	PB61-01	---	---	471,527.02	825,541.67	1	---	---	1
		PB61-02	---	---	471,542.67	825,318.04	---	1	---	1
		PB61-03	---	---	471,464.89	825,206.38	1	---	---	1
	CCTV-13-0062	PB62-01	---	---	471,829.00	828,996.18	---	1	---	1
		PB62-02	---	---	471,768.21	829,115.72	---	1	---	1
		PB62-03	---	---	471,696.61	829,305.71	1	---	---	1
	DMS-13-0037	PB37-01	654+65.0 AP	97.3 'RT	504,519.28	785,760.36	1	---	---	1
	DMS-13-0031	PB31-01	1019+50.3	91.4 'RT	474,933.67	791,990.95	1	---	---	1
	DMS-13-0032/0033	PB32-01	1209+36.9	122.5 'RT	468,424.51	809,122.68	---	1	---	1
		PB32-02	1209+40.3	85.0 'RT	468,461.75	809,127.80	---	1	---	1
		PB32-03	1211+01.3	87.4 'RT	468,451.84	809,288.50	1	---	---	1
		PB32-04	1212+62.0	86.4 'RT	468,445.40	809,449.04	---	1	---	1
		PB32-05	1214+59.7	103.9 'RT	468,418.61	809,645.75	1	---	---	1
		JB32-01	1212+71.5	0.0 'LT	468,531.24	809,462.55	---	---	1	---
	DMS-13-0034/0035	PB34-01	1391+88.0 JN	84.3 'LT	471,609.60	826,769.36	1	---	---	1
		PB34-02	1389+46.5 JN	84.3 'LT	471,592.92	826,528.44	1	---	---	1
		PB34-03	1387+05.1 JN	95.2 'LT	471,587.13	826,286.82	---	1	---	1
		JB34-01	1387+15.3 JN	0.0 'RT	471,492.87	826,303.54	---	---	1	---
	DMS-13-0036	PB36-01	1585+69.9 AG	93.2 'LT	473,013.88	846,027.39	1	---	---	1
	PCMS-01-1038	PB38-01	13+50.8 SRC	30.0 'RT	451,344.30	759,996.20	1	---	---	1
	PCMS-01-1039	PB39-01	12+39.5 LD	43.7 'RT	445,654.19	782,479.27	1	---	---	1
						TOTALS	12	7	2	19

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

REMOVING PULL BOXES

CATEGORY	LOCATION	EQUIP. LOCATION	STATION	OFFSET	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	*653.0905 EACH
0040	SDS-13-005	EXPB-7	1173+34	56.4' RT	468,272.20	805,539.42	1
		EXPB-8	1176+35	58.3' RT	468,294.64	805,839.89	1
		EXPB-9	1178+40	64.7' RT	468,304.71	806,044.35	1
		EXPB-10	1180+43	62.2' RT	468,323.62	806,246.47	1
		EXPB-11	1173+32	60.7' LT	468,388.68	805,527.71	1
		EXPB-12	1174+16	122.3' LT	468,456.92	805,606.40	1
						TOTAL	6

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

3

ITS ELECTRICAL WIRE

CATEGORY	LOCATION	LOCATION FROM	LOCATION TO	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF	655.0635 ELECTRICAL WIRE LIGHTING 2 AWG LF	655.0640 ELECTRICAL WIRE LIGHTING 1 AWG LF
0040	CCTV-13-0061	EXCB61-01	CP61-01	---	---	2,000	---
	CCTV-13-0062	EXCB62-01	CP62-01	---	---	2,350	---
	DMS-13-0037	MB37-01	CB37-01	---	265	---	---
	DMS-13-0031	MB31-01	CB31-01	---	415	---	---
	DMS-13-0032/0033	MB32-01	CB32-01	---	---	---	2,600
	DMS-13-0034/0035	MB34-01	CB34-01	---	---	2,150	---
	DMS-13-0036	MB36-01	CB36-01	---	220	---	---
	PCMS-01-1038	MB38-01	OUTDOOR SERVICE PEDESTAL	290	---	---	---
	PCMS-01-1039	MB39-01	OUTDOOR SERVICE PEDESTAL	320	---	---	---
			TOTALS (0040)	610	900	6,500	2,600

ITS BASE SUMMARY

CATEGORY	LOCATION	EQUIP. LOCATION	STATION	LOCATION	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	*654.0105 CONCRETE BASES TYPE 5 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	672.0250 BASE CAMERA POLE 50-FT EACH
0040	CCTV-13-0061	CP61-01	---	---	471,463.24	825,197.82	---	---	1
	CCTV-13-0062	CP62-01	---	---	471,726.44	829,258.01	---	---	1
	CCTV-13-0062	CB62-01	---	---	471,686.43	829,315.44	1	1	---
	DMS-13-0031	CB31-01	1019+21	92' RT	474,935.09	791,962.23	1	1	---
	DMS-13-0032/0033	CB32-01	1214+75	103' RT	468,418.97	809,661.39	1	1	---
	DMS-13-0034/0035	CB34-01	1386+94 JN	95' LT	471,586.33	826,276.18	1	1	---
	SDS-13-0080 B	MD80-01	---	---	463,636.18	798,134.84	---	1	---
						TOTALS	4	5	2

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

ITS POLE EQUIPMENT SUMMARY / COMMUNICATIONS

CATEGORY	LOCATION	EQUIP. LOCATION	STATION	LOCATION	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	*657.0322 POLES TYPE 5 - ALUMINUM EACH	675.0300 INSTALL MOUNTED CONTROLLER MICROWAVE DETECTOR ASSEMBLY EACH	677.0100 INSTALL CAMERA POLE EACH	677.0200 INSTALL CAMERA ASSEMBLY EACH	SPV.0060.50 INSTALL IP WIRELESS 5.8 GHZ RADIO/ANTENNA EACH	SPV.0060.54 INSTALL YAGI ANTENNA EACH	SPV.0060.55 TRAFFIC SIGNAL DOME CAMERA EACH	SPV.0060.62 WOOD POLE, 50-FT WITH SERVICE EACH	SPV.0060.64 INSTALL SOLAR POWER ASSEMBLY EACH
0040	CTH PD/COMMERCE PARK	EXLP-1	---	---	461,243.56	798,845.52	---	---	---	---	1	---	---	---	---
	CTH PD/SEMINOLE	EXLP-2	---	---	461,163.79	802,035.32	---	---	---	---	2	---	---	---	---
	CTH PD/SEMINOLE	EXLP-3	---	---	461,220.28	802,192.05	---	---	---	---	---	---	1	---	---
	CTH PD/LONGFORD TERRACE	EXLP-4	---	---	461,289.63	806,268.32	---	---	---	---	2	---	---	---	---
	CTH PD/FISH HATCHERY ROAD	EXLP-5	---	---	461,244.87	810,369.51	---	---	---	---	1	---	1	---	---
	CCTV-13-0061	CP61-01	---	---	471,463.11	825,197.85	---	3	1	1	---	---	---	---	---
	CCTV-13-0062	CP62-01	---	---	471,726.44	829,258.01	---	---	1	1	---	---	---	---	---
	CCTV-13-0062	EXCB62-01	---	---	471,459.37	829,082.75	---	---	---	---	---	---	---	---	---
	CCTV-13-0062	CB62-01	---	---	471,686.43	829,315.44	1	2	---	---	---	---	---	---	---
	CCTV-13-0063	CP63-01	---	---	461,357.26	797,656.10	---	---	---	1	---	---	---	1	---
	DMS-13-0031	CB31-01	1019+21.1	91.9 'RT	474,935.09	791,962.23	1	2	---	---	1	---	---	---	---
	DMS-13-0032/33	CB32-01	1214+75.3	103 'RT	468,418.97	809,661.39	1	2	---	---	1	---	---	---	---
	DMS-13-0034/35	CB34-01	1386+94.1 JN	95.1 'LT	471,586.33	826,276.18	1	---	---	---	---	1	---	---	---
	SDS-13-014	EXCB-01	---	---	472,280.14	841,663.23	---	2	---	---	---	---	---	---	---
	DMS-13-0036	CB36-01	1585+60.0 AG	86.8 'LT	473,007.96	846,017.37	---	---	---	---	---	1	---	---	---
	SDS-13-0080 B	MD80-01	---	---	463,636.18	798,134.84	1	1	---	---	---	---	---	---	1
						TOTALS	5	12	2	3	8	2	2	1	1

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

ITS CABINET SUMMARY

CATEGORY	LOCATION	EQUIP. LOCATION	STATION	OFFSET	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	*659.0802 PLAQUES SEQUENCE IDENTIFICATION EACH	675.0400.S INSTALL ETHERNET SWITCH EACH	677.0300.S INSTALL VIDEO ENCODER EACH	678.0400 FIBER OPTIC TERMINATION EACH	SPV.0060.46 INSTALL MOUNTED CABINET EACH	*SPV.0060.47 INSTALL CELLULAR MODEM EACH	SPV.0060.52 INSTALL SPREAD SPECTRUM RADIO EACH	SPV.0060.56 TRAFFIC SIGNAL ETHERNET SWITCH EACH	SPV.0060.57 TRAFFIC SIGNAL MASTER ETHERNET SWITCH EACH
0040	CTH PD/COMMERCE PARK	EXCB-1	---	---	461,131.17	798,948.72	---	---	---	---	---	---	---	---	1
	CTH PD/SEMINOLE	EXCB-2	---	---	461,122.01	802,032.21	---	---	---	---	---	---	---	1	---
	CTH PD/LONGFORD TERRACE	EXCB-3	---	---	461,198.71	806,201.85	---	---	---	---	---	---	---	1	---
	CTH PD/FISH HATCHERY ROAD	EXCB-4	---	---	461,276.54	810,301.48	---	---	---	---	---	---	---	1	---
	CCTV-13-0061	CP61-01	---	---	471,463.30	825,197.81	2	1	1	6	1	---	---	---	---
	CCTV-13-0061	EXCB61-01	---	---	471,534.45	825,758.69	---	---	---	6	---	---	---	---	---
	CCTV-13-0062	CP62-01	---	---	471,726.44	829,258.01	2	1	1	12	1	---	---	---	---
	CCTV-13-0062	EXCB62-01	---	---	471,459.37	829,082.75	---	1	---	6	---	---	1	---	---
	CCTV-13-0063	CP63-01	---	---	461,357.26	797,656.10	2	---	1	---	1	1	---	---	---
	DMS-13-0037	CB37-01	654+50.0 AP	102.5 'RT	504,533.58	785,750.52	2	---	---	---	1	1	---	---	---
	DMS-13-0031	CB31-01	1019+21.06	91.9 'RT	474,935.09	791,962.23	2	1	---	---	1	---	---	---	---
	DMS-13-0032/0033	CB32-01	1214+75.3	103 'RT	468,418.97	809,661.39	2	1	---	---	1	---	---	---	---
	DMS-13-0034/0035	CB34-01	1386+94.1 JN	95.1 'LT	471,586.33	826,276.18	2	1	---	---	1	---	1	---	---
	DMS-13-0036	CB36-01	1585+60.0 AG	86.8 'LT	473,007.96	846,017.37	2	---	---	---	1	---	1	---	---
	SDS-13-014	EXCB-01	---	---	472,190.44	841,828.54	---	---	---	---	---	---	1	---	---
	SDS-13-0080 B	MD80-01	---	---	463,636.18	798,134.84	2	---	---	---	---	1	---	---	---
						TOTALS	18	6	3	30	8	3	4	3	1

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

FIBER OPTIC CABLE MARKER

CATEGORY	LOCATION	LOCATION FROM	LOCATION TO	671.0300 EACH
0040	CCTV-13-0061	EXCB61-01	CP61-01	4
		SUBTOTAL (CCTV-13-0061)		4
	CCTV-13-0062	EXCB62-01	CP62-01	6
		CP62-01	CV62-01	1
		SUBTOTAL (CCTV-13-0062)		7
			TOTAL	11

COMMUNICATION VAULT TYPE 1

CATEGORY	LOCATION	EQUIP. LOCATION	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	673.0105 EACH
0040	CCTV-13-0062	CV62-01	471,882.67	828,997.92	1

CABLE MICROWAVE DETECTOR

CATEGORY	LOCATION	LOCATION FROM	LOCATION TO	674.0200 LF
0040	CCTV-13-0062	CP62-01	CB62-01	375
	SDS-13-014	EXCB-01	EXCB-02	630
			TOTAL	1,005

REMOVE CABLE

CATEGORY	LOCATION	LOCATION FROM	LOCATION TO	674.0300 LF
0040	CCTV-13-0061	EXCB61-02	EXPB61-04	280
		EXPB61-04	EXPB61-03	155
		EXPB61-03	EXPB61-02	32
		SUBTOTAL		467
	CCTV-13-0062	EXCB62-01	EXPB62-07	17
		EXPB62-07	EXPB62-06	140
		EXPB62-06	EXPB62-05	79
		EXPB62-05	EXPB62-04	130
		SUBTOTAL		366
	SEMINOLE HWY / USH 12/14/18/151	EXCB-1	EXPB-6	105
		EXPB-6	EXPB-7	245
		EXPB-7	EXPB-8	300
		EXPB-8	EXPB-9	205
		EXPB-9	EXPB-10	205
		EXPB-7	EXPB-11	115
		EXPB-11	EXPB-12	105
		EXCB-2	EXCB-3	345
		SUBTOTAL		1,625
			TOTAL	2,458

INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT

CATEGORY	LOCATION	LOCATION FROM	LOCATION TO	DISTANCE	SLACK	*678.0006 LF
0040	CCTV-13-0061	EXCB61-01	EXPB61-01	10	106	115
		EXPB61-01	PB61-01	225	6	230
		PB61-01	PB61-02	225	6	230
		PB61-02	EXPB61-02	47	6	53
		EXPB61-02	EXPB61-03	33	6	39
		EXPB61-03	PB61-03	70	6	76
		PB61-03	CP61-01	9	100	110
		SUBTOTAL				853
	CCTV-13-0062	EXCB62-01	EXPB62-07	17	106	125
		EXPB62-07	EXPB62-06	141	6	145
		EXPB62-06	EXPB62-05	79	6	85
		EXPB62-05	EXPB62-04	132	6	140
		EXPB62-04	EXPB62-02	130	6	135
		EXPB62-02	PB62-02	75	6	81
		PB62-02	EXPB62-01	144	6	150
		EXPB62-01	CP62-01	15	100	115
		CP62-01	EXPB62-01	15	106	120
		EXPB62-01	PB62-02	144	6	150
		PB62-02	EXPB62-02	75	6	81
		EXPB62-02	EXPB62-03	37	6	43
		EXPB62-03	PB62-01	40	6	46
		PB62-01	CV62-01	57	100	155
		SUBTOTAL				1,571
					TOTAL	2,424

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

FIBER OPTIC SPLICE SUMMARY

CATEGORY	LOCATION	EQUIP. LOCATION	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	678.0200 FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
0040	MILITARY RIDGE PATH	EXCV-01	461,165.44	798,079.39	1	8
	CCTV-13-0062	CV62-01	471,882.67	828,997.92	1	15
				TOTALS	2	23

PORTABLE CHANGEABLE MESSAGE BOARD SUMMARY

CATEGORY	LOCATION	STATION	OFFSET	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	*SPV.0060.47 INSTALL CELLULAR MODEM EACH	SPV.0060.96 OUTDOOR SERVICE PEDESTAL EACH	SPV.0060.63 INSTALL PORTABLE CHANGEABLE MESSAGE SIGN EACH
0040	PCMS-01-1038	13+70 SRC	17' RT	451,353.40	760,015.87	1	1	1
	PCMS-01-1039	12+20 LD	33' RT	445,665.25	782,459.89	1	1	1
	PCMS-01-1040	13+76 GR	17' RT	450,716.36	786,836.13	1	---	1
	PCMS-01-1041	12+00 MPR	39' RT	480,228.81	784,031.28	1	---	1
					TOTALS	4	2	4

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

INSTALL CONDUIT INTO EXISTING ITEM

CATEGORY	LOCATION	EQUIP. LOCATION	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	*652.0700.S EACH
0040	MILITARY RIDGE PATH	EXCV-01	461,165.44	798,079.39	1
	MILITARY RIDGE PATH	EXPB01	461,185.51	798,517.31	1
	CCTV-13-0061	EXPB61-01	471,540.29	825,765.98	1
	CCTV-13-0061	EXPB61-02	471,498.70	825,297.78	1
	CCTV-13-0061	EXPB61-03	471,476.68	825,274.93	1
	CCTV-13-0062	EXPB62-01	471,735.92	829,256.17	1
	CCTV-13-0062	EXPB62-02	471,771.61	829,042.91	1
	CCTV-13-0062	EXPB62-03	471,804.95	829,028.04	1
	CCTV-13-0062	EXCV62-01	471,885.79	828,992.04	1
	CCTV-01-0063	EXPB63-01	461,342.43	797,604.82	1
	DMS-13-0032/0033	EXMB32-01	468,409.75	809,096.51	1
				TOTAL	11

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

DYNAMIC MESSAGE SIGN SUMMARY

CATEGORY	LOCATION	STATION	LOCATION	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	SPV.0060.51 INSTALL OVERHEAD FREEWAY DMS FULL MATRIX AND CONTROLLER EACH	SPV.0060.60 INSTALL GROUND MOUNT DYNAMIC MESSAGE SIGN AND CONTROLLER EACH
0040	DMS-13-0031	1019+50	42' RT	474,983.06	791,994.07	1	---
	DMS-13-0037	654+50 AP	98' RT	504,532.90	785,755.07	---	1
	DMS-13-0032/0033	1212+40	0' LT	468,532.64	809,430.83	2	---
	DMS-13-0034/0035	1386+84 JN	0' LT	471,490.39	826,271.97	2	---
	DMS-13-0036	1585+61 AG	33' LT	472,954.03	846,015.40	1	---
					TOTALS	6	1

8-COUNT FIBER OPTIC CONNECTOR 1300-FT

CATEGORY	LOCATION	FROM	TO	SPV.0060.61 EACH
0040	COMMERCE PARK DRIVE	EXCB-1	EXCV-1	1

WIRELESS DETECTION SENSOR SUMMARY

CATEGORY	EQUIP. LOCATION	GEOGRAPHIC COORDINATES LATITUDE	GEOGRAPHIC COORDINATES LONGITUDE	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	*659.0802 PLAQUES SEQUENCE IDENTIFICATION EACH	SPV.0060.48 INSTALL SOLAR-POWERED BLUETOOTH SENSOR EACH
0040	WDS-0029	43° 05' 36.97"	89° 31' 08.98"	489,738.45	785,105.39	1	1
	WDS-0030	43° 04' 54.39"	89° 31' 17.71"	485,428.12	784,452.50	1	1
	WDS-0031	43° 03' 56.39"	89° 31' 21.71"	479,555.79	784,147.95	1	1
	WDS-0032	43° 03' 12.06"	89° 30' 32.26"	475,063.68	787,814.60	1	1
	WDS-0033	43° 03' 04.28"	89° 29' 05.04"	474,269.90	794,290.46	1	1
	WDS-0034	43° 02' 19.86"	89° 27' 26.07"	469,768.40	801,636.72	1	1
	WDS-0035	43° 02' 16.56"	89° 27' 04.98"	469,433.14	803,203.30	1	1
	WDS-0036	43° 01' 47.26"	89° 27' 44.56"	466,468.58	800,262.25	1	1
	WDS-0037	43° 00' 56.74"	89° 28' 54.35"	461,355.95	795,074.84	1	1
	WDS-0038	43° 00' 04.40"	89° 29' 30.29"	456,059.35	792,400.19	1	1
	WDS-0039	43° 00' 55.54"	89° 27' 57.23"	461,232.18	799,318.65	1	1
	WDS-0040	43° 01' 31.45"	89° 26' 54.31"	464,865.56	803,994.56	1	1
	WDS-0041	43° 02' 07.28"	89° 26' 06.42"	468,492.36	807,551.95	1	1
	WDS-0042	43° 00' 56.59"	89° 25' 49.16"	461,335.22	808,833.78	1	1
	WDS-0043	43° 00' 49.95"	89° 25' 36.45"	460,663.54	809,777.95	1	1
	WDS-0044	43° 02' 05.38"	89° 24' 35.60"	468,300.20	814,297.92	1	1
	WDS-0045	43° 01' 45.90"	89° 24' 37.96"	466,327.81	814,122.77	1	1
	WDS-0046	43° 02' 16.43"	89° 24' 15.75"	469,419.81	815,771.86	1	1
	WDS-0047	43° 02' 04.65"	89° 24' 02.65"	468,227.29	816,744.64	1	1
	WDS-0048	43° 02' 16.62"	89° 23' 38.62"	469,439.27	818,529.27	1	1
	WDS-0049	43° 01' 56.65"	89° 23' 19.77"	467,418.35	819,930.15	1	1
	WDS-0050	43° 02' 17.41"	89° 23' 10.20"	469,520.20	820,640.15	1	1
	WDS-0051	43° 02' 31.07"	89° 22' 24.64"	470,904.64	824,023.05	1	1
	WDS-0052	43° 02' 37.49"	89° 21' 41.52"	471,556.67	827,225.03	1	1
	WDS-0053	43° 02' 38.74"	89° 20' 10.35"	471,689.48	833,995.41	1	1
	WDS-0054	43° 02' 42.50"	89° 18' 59.62"	472,076.19	839,247.39	1	1
	WDS-0055	43° 02' 50.12"	89° 17' 12.15"	472,858.86	847,226.46	1	1
					UNDISTRIBUTED	5	5
					TOTALS	32	32

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRAFFIC SIGNAL CONDUIT SUMMARY

CATEGORY	INTERSECTION	LOCATION FROM	LOCATION TO	652.0220 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH LF	*652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	*652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0325 CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH LF	*652.0605 CONDUIT SPECIAL 2-INCH LF	*652.0615 CONDUIT SPECIAL 3-INCH LF
0010	SEMINOLE HWY / USH 12/14/18/151	EXPB-1	BRIDGE CONDUIT	---	---	28	---	---	---
		EXPB-1	SB-1	---	5	---	---	---	---
		EXPB-2	PB-1	---	7	---	---	---	---
		EXPB-6	BRIDGE CONDUIT	---	---	66	---	---	---
		BRIDGE CONDUIT	PB-2	---	---	54	---	---	---
		EXPB-4	SB-2	---	12	---	---	---	---
		BRIDGE CONDUIT	EXPB-3	---		36	---	---	---
		PB-3	EXPB-3	---	7	---	---	---	---
		SUBTOTALS		0	31	184	0	0	0
	USH 18/151 & SUMMIT ROAD	EXPB-13	STUB	30	---	---	---	---	---
		STUB	PB-10	---	25	---	---	---	---
		PB-10	STUB	43	---	---	---	---	---
		SUBTOTALS		73	25	0	0	0	0
		SUBTOTALS (0010)		73	56	184	0	0	0
0020	SEMINOLE/SENTINAL	CB-1	PB-3	---	28	---	---	---	---
		PB-3	PB-4	---	105	---	25	---	---
		CB-1	SB-1	---	---	---	---	---	---
		CB-1	PB-1	---	---	34	---	---	96
		PB-1	SB-2	---	7	---	---	---	---
		PB-1	PB-5	---	250	---	---	---	---
		CB-1	PB-2	---	---	29	---	---	110
		PB-2	SB-5	---	15	---	---	---	---
		PB-2	SB-4	---	41	---	---	---	---
		PB-2	SB-3	---	62	---	---	---	---
		PB-2	PB-6	---	260	---	---	---	---
		PB-2	SB-6	---	15	---	---	---	---
		CB-1	SB-7	---	20	---	---	---	---
		SUBTOTALS		0	803	63	25	0	206
	SEMINOLE/NAKOMA	CB-1	PB-1	---	---	38	---	---	---
		PB-1	SB-1	---	5	---	---	---	---
		PB-1	PB-2	---	68	---	---	---	---
		PB-2	SB-2	---	5	---	---	---	---
		PB-2	PB-7	---	175	---	---	28	---
		PB-3	SB-3	---	11	---	---	---	---
		PB-3	SB-4	---	4	---	---	---	---
		PB-8	PB-9	---	150	---	---	---	---
		PB-4	SB-5	---	13	---	---	---	---
		PB-5	SB-6	---	8	---	---	---	---
		PB-5	PB-10	---	130	---	---	50	---
		PB-6	SB-7	---	8	---	---	---	---
		PB-6	SB-8	---	9	---	---	---	---
		PB-6	PB-11	---	185	---	---	30	---
		SUBTOTALS		0	771	38	0	108	0

CON'T ON NEXT PAGE

TRAFFIC SIGNAL CONDUIT SUMMARY (CONT.)

CATEGORY	INTERSECTION	LOCATION FROM	LOCATION TO	652.0220 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH LF	*652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	*652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0325 CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH LF	*652.0605 CONDUIT SPECIAL 2-INCH LF	*652.0615 CONDUIT SPECIAL 3-INCH LF
0020	CTH PB/CTH M	CB-1	EXPB-10	---	---	51	---	---	---
(CON'T)		CB-1	EXPB-1	---	---	39	---	---	---
		EXPB-10	SB-10	---	5	---	---	---	---
		EXPB-1	SB-1	---	6	---	---	---	---
		EXPB-2	SB-2	---	5	---	---	---	---
		EXIST. CONDUIT	EXPB-12	---	29	---	---	---	---
		EXPB-4	SB-3	---	15	---	---	---	---
		EXPB-4	MB-1	---	36	---	---	---	---
		EXPB-13	PB-1	---	210	---	---	---	---
		EXPB-3	SB-4	---	7	---	---	---	---
		EXPB-5	SB-5	---	9	---	---	---	---
		EXPB-6	SB-6	---	6	---	---	---	---
		EXPB-7	SB-7	---	5	---	---	---	---
		EXPB-3	EXIST. CONDUIT	---	32	---	---	---	---
		EXPB-14	PB-2	---	125	---	---	---	---
		EXPB-9	SB-8	---	13	---	---	---	---
		EXPB-9	EXPB-8	---	---	---	---	---	74
		EXPB-8	SB-9	---	10	---	---	---	---
		EXPB-15	PB-3	---	215	---	---	---	---
		SUBTOTALS		0	728	90	0	0	74
	FISH HATCHERY/CTH M	CB-1	SB-1	---	25	---	---	---	---
		CB-1	PB-1	---	23	---	---	---	---
		PB-1	SB-8	---	18	---	---	---	---
		PB-1	PB-9	---	170	---	---	---	---
		PB-9	PB-10	---	110	---	22	---	---
		CB-1	PB-2	---	---	76	---	---	140
		PB-2	PB-5	---	290	---	14	---	---
		PB-2	SB-2	---	16	---	---	---	---
		PB-2	SB-3	---	37	---	---	---	---
		PB-2	PB-3	---	---	44	---	---	205
		PB-3	SB-4	---	11	---	---	---	---
		PB-3	SB-5	---	16	---	---	---	---
		PB-3	MB-1	---	6	---	---	---	---
		PB-3	PB-6	---	170	---	---	---	---
		PB-6	PB-7	---	125	---	---	---	---
		PB-3	PB-4	---	---	30	---	---	150
		PB-4	PB-8	---	275	---	32	---	---
		PB-4	SB-6	---	15	---	---	---	---
		PB-4	SB-7	---	42	---	---	---	---
		PB-4	CB-1	---	---	75	---	---	195
		SUBTOTALS		0	1,349	225	68	0	690
		SUBTOTALS (0020)		0	3,651	416	93	108	970
		TOTALS		73	3,707	600	93	108	970

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

INSTALL CONDUIT INTO EXISTING ITEM

CATEGORY	LOCATION	EXISTING FACILITY	STATION	LOCATION	*652.0700.S EACH
0010	SEMINOLE HWY/USH 12/14/18/151	EXPB-1	8+88 SH	35.8' LT	1
		EXPB-2	8+93 SH	35.3' RT	1
		EXPB-3	11+12 SH	36.0' LT	1
		EXPB-4	11+25 SH	26.2' RT	1
		EXPB-6	8+81 SH	50.2' RT	1
		SUBTOTAL			5
	USH 18/151 & SUMMIT RD	EXPB-13	98+97 SU	50.0' RT	1
		STUB	98+67 SU	50.0' RT	1
		STUB	99+25 SU	12.0' LT	1
		STUB	98+57 SU	13.0' LT	1
		LOOP	98+98 SU	6.6' LT	1
		SUBTOTAL			5
		SUBTOTAL (0010)			10
0020	CTH PB/CTH M	EXPB-1	99+58 PB	51.6' RT	1
		EXPB-2	99+51 PB	5.3' LT	1
		EXPB-3	99+42 MPB	25.3' RT	1
		EXPB-4	99+35 PB	72.8' LT	1
		EXPB-5	99+34 MPB	28.5' LT	1
		EXPB-6	100+43 PB	54.2' LT	1
		EXPB-7	100+46 PB	3.6' RT	1
		CONDUIT	100+78 PB	2.1' RT	1
		EXPB-8	100+63 MPB	22.0' LT	1
		EXPB-9	100+71 MPB	58.5' LT	1
		EXPB-10	100+64 MPB	29.4' RT	1
		CONDUIT	97+27 PB	1.0' RT	1
		EXPB-12	96+99 PB	3.3' RT	1
		EXPB-13	98+26 MPB	32.4' RT	1
		EXPB-14	101+71 PB	1.8' RT	1
		EX LOOP 22	102+97 PB	13.9' LT	1
		EXPB-15	101+73 MPB	30.8' LT	1
		SUBTOTAL (0020)			17
				TOTAL	27

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRAFFIC SIGNAL PULL BOX SUMMARY

CATEGORY	INTERSECTION	PULL BOX NO.	STATION	LOCATION	*653.0135 PULL BOXES STEEL 24X36-INCH EACH	SPV.0060.41 PULL BOX TYPE I EACH	SPV.0060.42 PULL BOX TYPE III EACH	SPV.0060.43 PULL BOX TYPE V EACH
0010	SEMINOLE HWY / USH 12/14/18/151	PB-1	9+02 SH	33.3' RT	1	---	---	---
		PB-2	11+26 SH	40.7' RT	1	---	---	---
		PB-3	11+01 SH	32.6' LT	1	---	---	---
		SUBTOTALS			3	0	0	0
	USH 18/151 & SUMMIT RD	PB-10	99+00 SU	10.5' LT	1	---	---	---
		SUBTOTALS			1	0	0	0
		SUBTOTALS (0010)			4	0	0	0
0020	SEMINOLE/SENTINEL	PB-1	100+32 SS	53.0' LT	---	1	---	---
		PB-2	99+68 SS	21.1' RT	---	---	---	1
		PB-3	99+24 S	24.5' RT	---	---	1	---
		PB-4	97+93 S	24.5' RT	---	---	1	---
		PB-5	102+75 SS	27.5' LT	---	---	1	---
		PB-6	97+07 SS	20.7' RT	---	---	1	---
		SUBTOTALS			0	1	4	1
	SEMINOLE/NAKOMA	PB-1	100+37 N	26.1' RT	---	---	---	1
		PB-2	99+65 SN	22.7' RT	---	---	1	---
		PB-3	99+48 N	25.8' RT	---	---	---	1
		PB-4	99+43 N	26.2' LT	---	1	---	---
		PB-5	100+42 SN	26.2' LT	---	1	---	---
		PB-6	100+51 N	26.8' LT	---	---	---	1
		PB-7	97+76 SN	21.3' RT	---	---	1	---
		PB-8	98+72 N	24.5' RT	---	---	1	---
		PB-9	97+22 N	24.2' RT	---	---	1	---
		PB-10	102+21 SN	19.6' LT	---	---	1	---
		PB-11	102+65 N	24.2' LT	---	---	1	---
		SUBTOTALS			0	2	6	3
	CTH PB/CTH M	PB-1	96+18 MPB	22.9' RT	---	---	1	---
		PB-2	102+97 PB	1.7' RT	---	---	1	---
		PB-3	103+89 MPB	22.2' LT	---	---	1	---
		SUBTOTALS			0	0	3	0
	FISH HATCHERY/CTH M	PB-1	100+77 MFH	36.4' LT	---	1	---	---
		PB-2	100+75 FHM	37.8' LT	---	---	---	1
		PB-3	99+52 MFH	47.2' RT	---	---	---	1
		PB-4	99+27 FHM	37.7' RT	---	---	---	1
		PB-5	103+77 FHM	32.6' LT	---	---	1	---
		PB-6	97+50 MFH	30.8' RT	---	---	1	---
		PB-7	96+24 MFH	28.0' RT	---	---	1	---
		PB-8	96+23 FHM	31.3' RT	---	---	1	---
		PB-9	102+48 MFH	31.6' LT	---	---	1	---
		PB-10	103+82 MFH	29.0' LT	---	---	1	---
		SUBTOTALS			0	1	6	3
		SUBTOTALS (0020)			0	4	19	7
				TOTALS	4	4	19	7

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOOP DETECTOR INSTALLATION

CATEGORY	INTERSECTION	LOOP NO.	STATION	LOCATION	SIZE FT x FT	NO. OF TURNS	652.0800 CONDUIT LOOP DETECTOR LF	652.0900 LOOP DETECTOR SLOTS LF	655.0700 LOOP DETECTOR LEAD IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF	REMARKS/SDD INSTALLATION REFERENCE
0010	SEMINOLE HWY /	21	11+05 SH	10.0'LT	6X12	4	72	---	0	290	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
	USH 12/14/18/151	22	8+96 SH	20.0'LT	3X3	3	54	---	97	160	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
		51	8+91 SH	2.0'LT	6X20	3	120	---	0	355	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
		61	8+96 SH	10.5'RT	6X10	4	68	---	0	270	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
		62	11+11 SH	3.0'RT	6X20	3	87	---	0	225	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE
		63	11+03 SH	20.0'RT	3X3	3	62	---	82	185	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
			SUBTOTALS				463	0	179	1,485	
	USH 18/151 & SUMMIT ROAD	44	99+19 SU	3.0'RT	6X20	---	5	---	---	---	EXISTING LOOP
		48	98+93 SU	33.4'RT	5X5	4	10	---	---	100	EXISTING LOOP
			SUBTOTALS				15	0	0	100	
			SUBTOTALS (0010)				478	0	179	1,585	
0020	SEMINOLE/SENTINEL	21	102+71 SS	6.6'LT	6X6	5	44	44	340	160	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		41	99+47 S	12.1'RT	6X20	3	76	---	40	230	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
		42	98+05 S	12.0'RT	6X6	3	38	38	180	100	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		43	99+25 S	0.6'RT	6X6	3	47	---	40	120	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE
		61	97+09 SS	5.0'RT	6X20	3	60	60	350	175	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
			SUBTOTALS				265	142	950	785	
	SEMINOLE NAKOMA	21	102+60 N	8.7'LT	6X15	3	52	---	305	145	DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT
		41	100+41 SN	9.2'LT	6X20	3	68	---	165	190	DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT
		42	102+18 SN	5.2'LT	6X6	5	38	---	350	150	DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT
		51	100+43 N	0.0'RT	6X20	3	79	---	85	210	DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT
		61	97+25 N	12.5'RT	6X6	5	35	---	355	145	DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT
		81	99+52 SN	3.2'LT	6X20	3	82	---	64	215	DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT
		82	99+57 SN	11.3'RT	6X20	3	67	---	64	185	DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT
		83	97+74 SN	7.8'RT	6X6	4	37	---	275	120	DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT
			SUBTOTALS				458	0	1,663	1,360	
	CTH PB/CTH M	21	101+70 PB	24.6'LT	6X20	3	18	---	285	195	EXPOSE T-CONDULET AND REWIRE
		22	102+97 PB	25.8'LT	6X20	4	18	---	420	245	EXPOSE T-CONDULET AND REWIRE
		31	100+54 MPB	6.1'LT	6X20	0	---	---	87	---	EXISTING LOOP
		32	103+89 MPB	6.4'LT	6X6	6	39	39	465	175	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		41	99+44 MPB	7.2'RT	6X20	0	---	---	215	---	EXISTING LOOP
		42	96+16 MPB	6.9'RT	6X6	6	39	39	490	175	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		51	100+51 PB	8.8'LT	6X20	3	65	65	155	180	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		61	98+23 PB	25.0'RT	6X20	4	---	---	225	---	EXISTING LOOP
		62	96+99 PB	23.8'RT	6X20	5	---	---	360	---	EXISTING LOOP
			SUBTOTALS				179	143	2,702	970	
	FISH HATCHERY/CTH M	21	102+43 MFH	14.2'LT	6X6	4	41	41	215	130	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		22	103+73 MFH	12.2'LT	6X6	5	40	40	350	150	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		41	100+53 FHM	15.6'LT	6X20	3	74	74	120	200	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		42	103+74 FHM	11.8'LT	6X6	5	44	44	430	160	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		43	100+53 FHM	2.2'RT	6X20	3	91	91	120	235	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		61	97+57 MFH	14.3'RT	6X6	6	40	40	455	175	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		62	96+27 MFH	12.9'RT	6X6	6	39	39	585	175	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		81	99+47 FHM	13.5'RT	6X20	3	75	75	145	200	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		82	96+26 FHM	11.5'RT	6X6	5	43	43	460	160	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
		83	99+47 FHM	2.6'LT	6X20	3	91	91	145	235	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
			SUBTOTALS				578	578	3,025	1,820	
			SUBTOTALS (0020)				1,480	863	8,340	4,935	
						TOTALS	1,958	863	8,519	6,520	

3

TRAFFIC SIGNAL CABLE SUMMARY

CATEGORY	INTERSECTIONS	LOCATION FROM	LOCATION TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0250 CABLE TRAFFIC SIGNAL 9-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF
0020	SEMINOLE/SENTINEL	CB-1	SB-1	---	13	---	---	---
		SB-1	HEAD 7	19	---	---	---	---
		CB-1	SB-2	---	---	---	84	---
		SB-2	HEAD 1	19	---	---	---	---
		SB-2	HEAD 6	19	---	---	---	---
		CB-1	SB-3	---	---	145	---	---
		SB-3	HEAD 5	42	---	---	---	---
		CB-1	SB-4	---	125	---	---	---
		SB-4	HEAD 9	19	---	---	---	---
		CB-1	SB-5	---	98	---	---	---
		SB-5	HEAD 8	19	---	---	---	---
		CB-1	SB-6	---	---	---	97	---
		SB-6	HEAD 3	19	---	---	---	---
		SB-6	HEAD 4	19	---	---	---	---
		CB-1	SB-7	---	26	---	---	---
		SB-7	HEAD 2	47	---	---	---	---
		SUBTOTALS		222	262	145	181	0
	SEMINOLE/NAKOMA	CB-1	SB-1	---	---	---	31	---
		SB-1	HEAD 5	45	---	---	---	---
		SB-1	82	12	---	---	---	---
		SB-1	BUTTON	6	---	---	---	---
		CB-1	SB-2	---	---	---	70	---
		SB-2	HEAD 9	19	---	---	---	---
		SB-2	HEAD 10	19	---	---	---	---
		SB-2	81	12	---	---	---	---
		SB-2	BUTTON	6	---	---	---	---
		CB-1	SB-3	---	---	---	---	130
		SB-3	HEAD 3	---	23	---	---	---
		SB-3	HEAD 8	42	---	---	---	---
		SB-3	80	12	---	---	---	---
		SB-3	BUTTON	6	---	---	---	---
		CB-1	SB-4	---	---	125	---	---
		SB-4	HEAD 4	19	---	---	---	---
		SB-4	87	12	---	---	---	---
		SB-4	BUTTON	6	---	---	---	---
		CB-1	SB-5	---	---	---	190	---
		SB-5	HEAD 2	---	42	---	---	---
		SB-5	86	12	---	---	---	---
		SB-5	BUTTON	6	---	---	---	---
		CB-1	SB-6	---	---	---	175	---
		SB-6	HEAD 7	19	---	---	---	---
		SB-6	HEAD 12	42	---	---	---	---
		SB-6	85	12	---	---	---	---
		SB-6	BUTTON	6	---	---	---	---
		CB-1	SB-7	---	---	105	---	---
		SB-7	HEAD 11	19	---	---	---	---
		SB-7	84	12	---	---	---	---
		SB-7	BUTTON	6	---	---	---	---
		CB-1	SB-8	---	---	---	94	---
		SB-8	HEAD 1	19	---	---	---	---
		SB-8	HEAD 6	19	---	---	---	---
		SB-8	83	12	---	---	---	---
		SB-8	BUTTON	6	---	---	---	---
		SUBTOTALS		406	65	230	560	130

CON'T ABOVE

TRAFFIC SIGNAL CABLE SUMMARY (CON'T)

CATEGORY	INTERSECTIONS	LOCATION FROM	LOCATION TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG LF	655.0250 CABLE TRAFFIC SIGNAL 9-14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG LF
0020 (CON'T)	CTH PB/CTH M	CB-1	SB-1	---	37	---	---	---
		SB-1	HEAD 12	19	---	---	---	---
		CB-1	SB-2	---	---	---	---	100
		SB-2	HEAD 9	42	---	---	---	---
		SB-2	HEAD 10	22	---	---	---	---
		SB-2	HEAD 16	19	---	---	---	---
		CB-1	SB-3	---	185	---	---	---
		SB-3	HEAD 8	52	---	---	---	---
		CB-1	SB-4	---	---	---	220	---
		SB-4	HEAD 3	22	---	---	---	---
		SB-4	HEAD 4	19	---	---	---	---
		CB-1	SB-5	---	255	---	---	---
		SB-5	HEAD 2	52	---	---	---	---
		CB-1	SB-6	---	225	---	---	---
		SB-6	HEAD 7	19	---	---	---	---
		CB-1	SB-7	---	---	---	---	160
		SB-7	HEAD 11	22	---	---	---	---
		SB-7	HEAD 14	42	---	---	---	---
		SB-7	HEAD 15	19	---	---	---	---
		CB-1	SB-8	---	145	---	---	---
		SB-8	HEAD 13	52	---	---	---	---
		CB-1	SB-9	---	---	---	96	---
		SB-9	HEAD 1	19	---	---	---	---
		SB-9	HEAD 6	22	---	---	---	---
		CB-1	SB-10	---	34	---	---	---
		SB-10	HEAD 5	52	---	---	---	---
		SUBTOTALS		494	881	0	316	260
			TOTALS	1,122	1,208	375	1,057	390

REMOVING PULL BOXES

CATEGORY	LOCATION	EQUIP. LOCATION	STATION	OFFSET	DANE COUNTY COORDINATES Y	DANE COUNTY COORDINATES X	*653.0905 EACH
0010	USH 18/151 & SUMMIT ROAD	EXPB-10	98+98 SU	14.0' LT	468,215.39	801,914.69	1

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRAFFIC SIGNAL EQUIPMENT GROUNDING AND GROUNDED CONDUCTORS

CATEGORY	INTERSECTION	LOCATION FROM	LOCATION TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG (GREEN) LF
0020	SEMINOLE/SENTINEL	CB-1	SB-1	16
		SB-1	SB-2	105
		SB-2	SB-3	225
		SB-3	SB-4	115
		SB-4	SB-5	69
		SB-5	SB-6	43
		SB-6	SB-7	125
		SB-7	CB-1	29
		SB-2	PB-1	16
		SB-6	PB-2	24
		SUBTOTAL		767
	SEMINOLE/NAKOMA	CB-1	SB-1	34
		SB-1	SB-2	61
		SB-2	SB-3	165
		SB-3	SB-4	27
		SB-4	SB-5	88
		SB-5	SB-6	325
		SB-6	SB-7	115
		SB-7	SB-8	39
		SB-8	CB-1	97
		SB-1	PB-1	15
		SB-2	PB-2	14
		SB-4	PB-3	13
		SB-5	PB-4	22
		SB-6	PB-5	16
		SB-8	PB-6	18
		SUBTOTAL		1,049
	CTH PB/CTH M	CB-1	SB-1	40
		SB-1	SB-2	86
		SB-2	SB-3	110
		SB-3	SB-4	77
		SB-4	SB-5	88
		SB-5	SB-6	54
		SB-6	SB-7	87
		SB-7	SB-8	105
		SB-8	SB-9	78
		SB-9	SB-10	84
		SB-10	CB-1	37
		SB-1	EXPB-1	15
		SB-2	EXPB-2	14
		SB-4	EXPB-3	16
		SB-3	EXPB-4	24
		SB-5	EXPB-5	18
		SB-6	EXPB-6	15
		SB-7	EXPB-7	14
		SB-9	EXPB-8	19
		SB-8	EXPB-9	22
		SB-10	EXPB-10	14
		SUBTOTAL		1,017

CON'T ABOVE

TRAFFIC SIGNAL EQUIPMENT GROUNDING AND GROUNDED CONDUCTORS (CON'T)

CATEGORY	INTERSECTION	LOCATION FROM	LOCATION TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG (GREEN) LF
0020 (CON'T)	FISH HATCHERY/CTH M	CB-1	SB-1	34
		SB-1	SB-2	170
		SB-2	SB-3	65
		SB-3	SB-4	190
		SB-4	SB-5	40
		SB-5	SB-6	140
		SB-6	SB-7	70
		SB-7	SB-8	240
		SB-8	CB-1	56
		CB-1	PB-1	32
		SB-3	PB-2	46
		SB-5	PB-3	25
		SB-7	PB-4	51
		SUBTOTAL		1,159
		TOTALS		3,992

ELECTRICAL WIRE, LIGHTING (LUMINAIRES)

CATEGORY	LOCATION	LOCATION FROM	LOCATION TO	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED LF	*655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
0020	SEMINOLE/SENTINEL	CB-1	SB-2	87	---
			POLE	---	125
		CB-1	SB-7	29	---
			POLE	---	125
		SB-7	SB-3	170	---
			POLE	---	125
		SUBTOTALS		286	375
	SEMINOLE/NAKOMA	CB-1	SB-3	135	---
			POLE	---	125
		SB-3	SB-5	95	---
			POLE	---	125
		CB-1	SB-1	34	---
			POLE	---	125
		SB-1	SB-7	96	---
			POLE	---	125
		SUBTOTALS		360	500
	CTH PB/CTH M	CB-1	SB-2	105	---
			POLE	---	245
		SB-2	SB-5	205	---
			POLE	---	125
		CB-1	SB-10	37	---
			POLE	---	125
		SB-10	SB-7	150	---
			POLE	---	245
		SUBTOTALS		497	740
	FISH HATCHERY/CTH M	CB-1	SB-1	34	---
			POLE	---	125
		SB-1	SB-3	190	---
			POLE	---	125
		CB-1	SB-7	190	---
			POLE	---	125
		SB-7	SB-5	165	---
			POLE	---	125
		SUBTOTALS		579	500
		TOTAL		1,722	2,115

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRAFFIC SIGNAL BASES

CATEGORY	INTERSECTION	BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	657.0100 PEDESTAL BASES EACH	SPV.0060.36 CONCRETE BASE TYPE G EACH	SPV.0060.37 CONCRETE BASE TYPE LB-3 EACH	SPV.0060.38 CONCRETE BASE TYPE LB-8 EACH	SPV.0060.39 CONCRETE BASE TYPE P EACH	SPV.0060.58 TRANSFORMER BASE STEEL 16-INCH EACH	SPV.0060.59 TRANSFORMER BASE STEEL 20-INCH EACH	REMARKS
0010	SEMINOLE HWY/USH 12/14/18/151	SB-1	8+90 SH	33.0' LT	1	---	---	---	---	---	---	---	
		SB-2	11+14 SH	31.5' RT	1	---	---	---	---	---	---	---	
			SUBTOTALS (0010)		2	0	0	0	0	0	0	0	
0020	SEMINOLE/SENTINEL	CB-1	99+51 S	32.3' RT	--	---	---	---	---	1	--	--	
		SB-1	99+47 S	26.6' RT	---	1	1	---	---	---	---	---	
		SB-2	100+34 SS	46.1' LT	---	---	---	1	---	---	1	---	
		SB-3	100+29 SS	22.3' RT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-4	100+08 SS	22.3' RT	---	1	1	---	---	---	---	---	
		SB-5	99+83 SS	22.2' RT	---	1	1	---	---	---	---	---	
		SB-6	99+53 SS	22.1' RT	---	1	1	---	---	---	---	---	
		SB-7	99+52 SS	36.7' LT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
			SUBTOTALS		0	4	4	1	2	1	1	2	
	SEMINOLE/NAKOMA	CB-1	100+41 N	38.0' RT	---	---	---	---	---	1	---	---	
		SB-1	100+36 N	30.6' RT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-2	99+70 SN	23.9' RT	---	1	1	---	---	---	---	---	
		SB-3	99+53 SN	30.3' LT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-4	99+49 N	30.0' RT	---	1	1	---	---	---	---	---	
		SB-5	99+56 N	25.6' LT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-6	100+35 SN	30.5' LT	---	---	---	---	1	---	---	---	
		SB-7	100+36 SN	31.0' RT	---	---	---	1	---	---	1	---	
		SB-8	100+42 N	27.4' LT	---	1	1	---	---	---	---	---	
			SUBTOTALS		0	3	3	1	4	1	1	3	
	CTH PB/CTH M	CB-1	99+60 PB	70.8' RT	---	---	---	---	---	1	---	---	
		SB-1	99+53 PB	49.9' RT	---	1	1	---	---	---	---	---	
		SB-2	99+46 PB	7.3' LT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-3	99+22 PB	66.5' LT	---	---	---	---	1	---	---	---	
		SB-4	99+47 MPB	25.2' RT	---	1	1	---	---	---	---	---	
		SB-5	99+26 MPB	33.4' LT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-6	100+49 PB	52.8' LT	---	1	1	---	---	---	---	---	
		SB-7	100+51 PB	5.1' RT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-8	100+71 PB	62.7' RT	---	---	---	---	1	---	---	---	
		SB-9	100+54 MPB	23.6' LT	---	1	1	---	---	---	---	---	
		SB-10	100+69 MPB	34.4' RT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
			SUBTOTALS		0	4	4	0	6	1	0	4	
	FISH HATCHERY/CTH M	CB-1	100+69 MFH	58.2' LT	---	---	---	---	---	1	---	---	
		SB-1	100+58 FHM	44.4' RT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-2	100+60 FHM	43.9' LT	---	---	1	---	---	---	---	---	
		SB-3	99+42 MFH	45.7' LT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-4	99+43 MFH	40.0' RT	---	---	1	---	---	---	---	---	
		SB-5	99+40 FHM	39.3' LT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-6	99+41 FHM	44.7' RT	---	---	1	---	---	---	---	---	
		SB-7	100+66 MFH	41.3' RT	---	---	---	---	1	---	---	1	15" BOLT CIRCLE
		SB-8	100+60 MFH	41.8' LT	---	---	1	---	---	---	---	---	
			SUBTOTALS		0	0	4	0	4	1	0	4	
			SUBTOTALS (0020)		0	11	15	2	16	4	2	13	
				TOTALS	2	11	15	2	16	4	2	13	

TRAFFIC SIGNAL POLES

CATEGORY	INTERSECTION	BASE NO.	STATION	LOCATION	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	SPV.0060.53 LUMINAIRES 250-WATT HPS EACH	SPV.0060.76 TRAFFIC SIGNAL TROMBONE ARMS 15-FOOT EACH	SPV.0060.77 TRAFFIC SIGNAL TROMBONE ARMS 20-FOOT EACH	SPV.0060.78 TRAFFIC SIGNAL TROMBONE ARMS 25-FOOT EACH	SPV.0060.79 POLE 20-FOOT, 7 GAUGE EACH	SPV.0060.80 POLE 30-FOOT, 11 GAUGE EACH	SPV.0060.81 POLE 30-FOOT, 7 GAUGE EACH	SPV.0060.82 LUMINAIRE ARM 10-FOOT EACH
0020	SEMINOLE/SENTINEL	SB-1	99+47 S	26.6'RT	1	---	---	---	---	---	---	---	---	---	---
		SB-2	100+34 SS	46.1'LT	---	---	---	1	---	---	---	---	1	---	1
		SB-3	100+29 SS	22.3'RT	---	---	---	1	1	---	---	---	---	1	1
		SB-4	100+08 ss	22.3'RT	1	---	---	---	---	---	---	---	---	---	---
		SB-5	99+83 SS	22.2'RT	1	---	---	---	---	---	---	---	---	---	---
		SB-6	99+53 SS	22.1'RT	1	---	---	---	---	---	---	---	---	---	---
		SB-7	99+52 SS	36.7'LT	---	---	---	1	---	1	---	---	---	1	1
			SUBTOTALS		4	0	0	3	1	1	0	0	1	2	3
	SEMINOLE/NAKOMA	SB-1	100+36 N	30.6'RT	---	---	1	1	1	---	---	---	---	1	1
		SB-2	99+70 SN	23.9'RT	1	---	1	---	---	---	---	---	---	---	---
		SB-3	99+53 SN	30.3'LT	---	---	1	1	1	---	---	---	---	1	1
		SB-4	99+49 N	30.0'RT	1	---	1	---	---	---	---	---	---	---	---
		SB-5	99+56 N	25.6'LT	---	---	1	1	1	---	---	---	---	1	1
		SB-6	100+35 SN	30.5'LT	---	---	1	---	1	---	---	1	---	---	---
		SB-7	100+36 SN	31.0'RT	---	---	1	1	---	---	---	---	1	---	1
		SB-8	100+42 N	27.4'LT	1	---	1	---	---	---	---	---	---	---	---
			SUBTOTALS		3	0	8	4	4	0	0	1	1	3	4
	CTH PB/CTH M	SB-1	99+53 PB	49.9'RT	1	---	---	---	---	---	---	---	---	---	---
		SB-2	99+46 PB	7.3'LT	---	---	---	2	1	---	---	---	---	1	2
		SB-3	99+22 PB	66.5'LT	---	---	---	---	---	---	1	1	---	---	---
		SB-4	99+47 MPB	25.2'RT	---	1	---	---	---	---	---	---	---	---	---
		SB-5	99+26 MPB	33.4'LT	---	---	---	1	---	---	1	---	---	1	1
		SB-6	100+49 PB	52.8'LT	1	---	---	---	---	---	---	---	---	---	---
		SB-7	100+51 PB	5.1'RT	---	---	---	2	1	---	---	---	---	1	2
		SB-8	100+71 PB	62.7'RT	---	---	---	---	---	---	1	1	---	---	---
		SB-9	100+54 MPB	23.6'LT	---	1	---	---	---	---	---	---	---	---	---
		SB-10	100+69 MPB	34.4'RT	---	---	---	1	---	---	1	---	---	1	1
			SUBTOTALS		2	2	0	6	2	0	4	2	0	4	6
	FISH HATCHERY/CTH M	SB-1	100+58 FHM	44.4'RT	---	---	---	1	---	---	---	---	---	1	1
		SB-3	99+42 MFH	45.7'LT	---	---	---	1	---	---	---	---	---	1	1
		SB-5	99+40 FHM	39.3'LT	---	---	---	1	---	---	---	---	---	1	1
		SB-7	100+66 MFH	41.3'RT	---	---	---	1	---	---	---	---	---	1	1
			SUBTOTALS		0	0	0	4	0	0	0	0	0	4	4
			TOTALS		9	2	8	17	7	1	4	3	2	13	17

TRAFFIC SIGNAL FACES SUMMARY

CATEGORY	INTERSECTION	BASE NO.	HEAD NO.	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0120 TRAFFIC SIGNAL FACE 5-12 INCH VERTICAL EACH	658.0155 TRAFFIC SIGNAL FACE 3-12 INCH HORIZONTAL EACH	658.0165 TRAFFIC SIGNAL FACE 5-12 INCH HORIZONTAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0225 BACKPLATES SIGNAL FACE 5 SECTION 12-INCH EACH	658.0412 PEDESTRIAN SIGNAL FACE 12-INCH EACH	658.0660 LED MODULES COUNTDOWN TIMER 12-INCH EACH
0020	SEMINOLE/SENTINEL	SB-1	7	1	---	---	---	---	1	---	---	---	---
		SB-2	1	1	---	---	---	---	1	---	---	---	---
			6	1	---	---	---	---	1	---	---	---	---
		SB-3	5	---	---	---	1	---	1	---	---	---	---
		SB-4	9	1	---	---	---	---	1	---	---	---	---
		SB-5	8	1	---	---	---	---	1	---	---	---	---
		SB-6	3	1	---	---	---	---	1	---	---	---	---
			4	1	---	---	---	---	1	---	---	---	---
		SB-7	2	---	---	---	1	---	1	---	---	---	---
		SUBTOTALS		7	0	0	2	0	9	0	0	0	0
	SEMINOLE/NAKOMA	SB-1	5	---	---	---	1	---	1	---	---	---	---
			82	---	---	---	---	---	---	---	---	1	1
		SB-2	9	1	---	---	---	---	1	---	---	---	---
			10	1	---	---	---	---	1	---	---	---	---
			81	---	---	---	---	---	---	---	---	1	1
		SB-3	3	---	---	1	---	---	---	---	1	---	---
			8	---	---	---	1	---	1	---	---	---	---
			80	---	---	---	---	---	---	---	---	1	1
		SB-4	4	1	---	---	---	---	1	---	---	---	---
			87	---	---	---	---	---	---	---	---	1	1
		SB-5	2	---	---	---	---	1	---	---	1	---	---
			86	---	---	---	---	---	---	---	---	1	1
		SB-6	7	1	---	---	---	---	1	---	---	---	---
			12	---	---	---	1	---	1	---	---	---	---
			85	---	---	---	---	---	---	---	---	1	1
		SB-7	11	1	---	---	---	---	1	---	---	---	---
			84	---	---	---	---	---	---	---	---	1	1
		SB-8	1	1	---	---	---	---	1	---	---	---	---
			6	1	---	---	---	---	1	---	---	---	---
			83	---	---	---	---	---	---	---	---	1	1
		SUBTOTALS		7	0	1	3	1	10	0	2	8	8
	CTH PB/CTH M	SB-1	12	1	---	---	---	---	1	---	---	---	---
		SB-2	9	1	---	---	---	---	1	---	---	---	---
			10	---	1	---	---	---	---	1	---	---	---
			16	1	---	---	---	---	1	---	---	---	---
		SB-3	8	1	---	---	---	---	1	---	---	---	---
		SB-4	3	---	1	---	---	---	---	1	---	---	---
			4	1	---	---	---	---	1	---	---	---	---
		SB-5	2	---	1	---	---	---	---	1	---	---	---
		SB-6	7	1	---	---	---	---	1	---	---	---	---
		SB-7	11	---	1	---	---	---	---	1	---	---	---
			14	1	---	---	---	---	1	---	---	---	---
			15	1	---	---	---	---	1	---	---	---	---
		SB-8	13	1	---	---	---	---	1	---	---	---	---
		SB-9	1	1	---	---	---	---	1	---	---	---	---
			6	---	1	---	---	---	---	1	---	---	---
		SB-10	5	---	1	---	---	---	---	1	---	---	---
		SUBTOTALS		10	6	0	0	0	10	6	0	0	0
		TOTALS		24	6	1	5	1	29	6	2	8	8

LED MODULE SUMMARY

CATEGORY	INTERSECTION	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH
0020	SEMINOLE/SENTINEL	9	9	9	---	---	---
	SEMINOLE/NAKOMA	12	12	12	---	2	2
	CTH PB/CTH M	12	12	12	4	8	6
	TOTALS	33	33	33	4	10	8

LOOP DETECTOR SPLICE

CATEGORY	LOCATION	EXISTING FACILITY	STATION	LOCATION	SPV.0060.40 EACH
0010	SEMINOLE HWY/USH 12/14/18/151	EXPB-1	8+88 SH	35.8' LT	1
		EXPB-2	8+99 SH	31.6' RT	1
		EXPB-5	11+02 SH	31.7' LT	2
		SUBTOTAL			4
	USH 18/151 & SUMMIT RD	PB-10	99+00 SU	10.7' LT	2
		EXPB-11	98+18 SU	11.8' LT	2
		EXPB-12	98+16 SU	49.0' RT	1
		EXPB-13	98+97 SU	50.0' RT	1
		SUBTOTAL			6
				TOTAL	10

TRAFFIC SIGNAL CONTROLLER, SIGNAL MOUNTING HARDWARE

CATEGORY	LOCATION	SPV.0060.45 TRAFFIC SIGNAL CONTROL CABINET EACH
0020	SEMINOLE & SENTINEL	1
	SEMINOLE & NAKOMA	1
	CTH PB & CTH M	1
	FISH HATCHERY/CTH M	1
	TOTAL	4

INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 6-CT

CATEGORY	LOCATION	LOCATION FROM	LOCATION TO	*678.0006 LF	REMARKS
0010	SEMINOLE HWY / USH 12/14/18/151	EXCB-2	EXPB-2	17	REINSTALL MULTIMODE INTERCONNECT
		EXPB-2	EXPB-1	78	
		EXPB-1	EXPB-3	235	
		EXPB-3	EXCB-3	15	
			TOTAL	345	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CABLE SUMMARY

CATEGORY	LOCATION	LOCATION FROM	LOCATION TO	*674.0300 REMOVE CABLE LF	674.0400 REINSTALL CABLE LF
0010	USH 18/151 & SUMMIT ROAD	EXPB-11	EXPB-9	120	120
		EXPB-12	EXPB-13	81	81
		LOOP 48	EXPB-13	38	---
		SUBTOTALS		239	201
	SEMINOLE HWY/ USH 12/14/18/151	EXPB-2	EXPB-1/PB-1	7	7
		EXPB-3	EXPB-3/PB-3	11	11
		SUBTOTALS		18	18
			TOTALS	257	219

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

RELOCATING EXISTING TRAFFIC SIGNAL POLE

CATEGORY	LOCATION	POLE NO.	STATION	LOCATION	SPV.0060.05 EACH
0010	SEMINOLE HWY/USH 12/14/18/151	EXSB-1	8+93 SH	31.3'LT	1
		EXSB-2	11+06 SH	27.0'RT	1
				TOTAL	2

FURNISHED TRAFFIC SIGNAL EQUIPMENT SUMMARY

CATEGORY	LOCATION	SPV.0060.49 FURNISH TRAFFIC SIGNAL TROMBONE ARMS 25-FOOT EACH	SPV.0060.97 FURNISH TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	SPV.0060.98 FURNISH TRAFFIC SIGNAL FACE 3-12 INCH HORIZONTAL EACH	SPV.0060.99 FURNISH BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	SPV.0060.100 FURNISH LED MODULES 12-INCH RED BALL EACH	SPV.0060.101 FURNISH LED MODULES 12-INCH YELLOW BALL EACH	SPV.0060.102 FURNISH LED MODULES 12-INCH GREEN BALL EACH
0020	UNDISTRIBUTED	4	8	4	12	12	12	12

SAWING

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF	REMARKS
0010	WEST BELTLINE WIDENING	1025+00 - 1077+41	LT	5,280	---	
		1026+10 - 1036+22	LT	1,050	---	
		1026+33 - 1077+41	RT	5,130	---	
		1053+81 - 1066+72	LT	1,310	---	
		66+72 L - 76+24 L	LT	945	3	
		SUBTOTALS		13,715	3	
	BELTLINE STORM SEWER CROSSING	1119+72 - 1122+49	LT	20	---	POND PATH
		1124+68 - 1124+77	LT	17	---	BIKE PATH
		1125+64 - 1126+92	LT	17	---	BIKE PATH
		1125+20 - 1125+49	LT	77	49	
		1125+48 - 1125+59	RT	29	78	
		1126+28 - 1126+52	LT	53	48	
		1126+35 - 1126+52	RT	34	79	
		1128+84	LT	---	3	
		SUBTOTALS		247	257	
	B-13-664	8+72 SH	LT/RT	105	---	
		8+75 SH	RT	---	3	CURB
		8+78 SH	LT	---	9	CURB & SIDEWALK
		11+31 SH	LT/RT	73	5	
		SUBTOTALS		178	17	
	WEST BELTLINE FRONTAGE ROAD	1176+70 - 1193+73	RT	1,740	---	
		71+07 SF - 71+58 SF	LT	---	49	E.A.T CURB CUT
		73+50 SF	LT/RT	40	5	
		83+75 SF - 89+50 SF	LT	610	3	
		SUBTOTALS		2,390	57	
	SAND & TRASH COLLECTOR	1192+59 - 1197+34	LT	---	145	
		SUBTOTALS		0	145	
	TODD DRIVE STORM SEWER	11+07 TD - 11+55 TD	RT	79	4	
				79	4	
	VERONA RD	975+15 VR - 988+00 VR	LT	---	540	BASE PATCHING ASPHALTIC
		986+20 VR - 987+16 VR	LT	---	120	
		975+15 VR - 986+85 VR	LT	---	1,170	
		988+00 VR - 1001+00 VR	LT	---	55	BASE PATCHING ASPHALTIC
		975+15 VR - 988+00 VR	RT	---	375	
		988+00 VR - 1001+00 VR	RT	---	210	
		93+80 EE - 98+50 EE	LT	---	21	SIDEWALK & CURB & GUTTER
		94+93 EE - 95+24 EE	LT/RT	64	---	
		98+11 EE - 98+11 WN	LT/RT	71	---	
		98+41 WN - 99+13 WN	LT/RT	---	10	SIDEWALK & CURB & GUTTER
		98+74 SU - 98+89 SU	LT/RT	---	130	
		98+74 SU - 99+02 SU	LT	---	90	
		989+01 VR - 991+19 VR	LT	215	5	CUL-DE-SAC
		84+88 WN - 88+19 WN	LT/RT	---	43	SIDEWALK
		116+68 EE - 117+10 EE	LT	58	19	
		107+20 WN - 108+45 WN	LT/RT	205	15	WATER MAIN INSTALLATION
		SUBTOTALS		613	2,803	
	FREEPORT ROAD	11+00 FP - 21+50 FP	LT/RT	370	20	
		9+99 BI - 15+75 BI	LT/RT	10	6	
		10+16 TL - 10+97 TL	LT/RT	57	10	
		10+00 CW - 11+87 CW	LT/RT	26	15	
		SUBTOTALS		463	51	
	NIEMANN PL	17+96 BP - 19+81 BP	LT/RT	52	10	
		10+00 NP - 10+93 NP	LT	11	7	
		121+73 EE - 122+69 EE	RT	135	5	
		122+76 EE - 123+54 EE	LT	82	5	
		SUBTOTALS		280	27	

CON'T ABOVE

SAWING (CON'T)

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF	REMARKS
(CONT.)	U-HAUL PARKING LOT	10+00 UH - 13+50 UH	RT	345	12	
		SUBTOTALS		345	12	
	WARWICK WAY	50+75 WW	LT/RT	26	15	
		51+12 WW - 51+21 WW	LT	10	---	PE
		51+63 WW	LT	---	4	PE
		52+20 WW	LT	---	4	PE
		52+47 WW - 52+58 WW	LT	8	---	PE
		52+94 WW - 53+03 WW	LT	9	---	PE
		53+16 WW	LT	---	3	PE
		53+39 WW - 53+48 WW	LT	9	---	PE
		53+50 WW	LT/RT	27	10	
		SUBTOTALS		89	36	
	ITS	1017+14 - 1020+11	RT	295	---	
		DMS-13-0032/0033	MED	350	15	
		DMS-13-0034-0035	MED	350	15	
		SUBTOTALS		995	30	
		UNDISTRIBUTED	---	970	170	
		SUBTOTALS (0010)		20,364	3,612	
0020	CTH PB & CTH M	101+54 PB - 105+26 PB	LT	380	5	
		101+15 MPB - 101+25 MPB	LT	11	3	
		SUBTOTALS		391	8	
	CTH M & FISH HATCHERY	97+89 MFH - 100+90 MFH	LT/RT	115	---	
		93+17 FHM - 106+97 FHM	LT/RT	165	---	
		SUBTOTALS		280	0	
	FISH HATCHERY & WHALEN	95+84 FHW - 106+27 FHW	LT/RT	210	---	
		99+41 WFH - 99+78 WFH	LT/RT	125	---	
		SUBTOTALS		335	0	
	SEMINOLE & LACY	90+53 SL - 107+03 SL	LT/RT	200	---	
		96+85 LR - 103+52 LR	LT/RT	540	---	
		SUBTOTALS		740	0	
	SEMINOLE & CTH PD	93+47 PD - 98+00 PD	RT	465	6	
		SUBTOTALS		465	6	
	SEMINOLE & SENTINEL	95+87 SS - 103+27 SS	LT	750	5	
		97+05 SP - 99+70 SP	LT/RT	340	25	
		SUBTOTALS		1,090	30	
	SEMINOLE/YUMA & NAKOMA	99+03 N - 99+52 N	LT/RT	125	---	
		98+71 N - 100+50 N	LT/RT	64	45	
		99+14 N - 99+42 N	LT/RT	38	8	
		98+94 SN - 99+14 SN	LT/RT	60	---	
		SUBTOTALS		287	53	
	WHITNEY & GILBERT	97+11 W - 98+60 W	RT	180	5	
		100+00 W - 102+62 W	RT	280	5	
		SUBTOTALS		460	10	
		UNDISTRIBUTED	---	200	5	
		SUBTOTALS (0020)		4,248	112	
0050	WHITNEY WAY BIKE PATH	64+50 WP	LT	10	2	
		76+40 WP	LT	---	16	
		SUBTOTALS (0050)		10	18	
		TOTALS		24,622	3,742	

POND LINER CLAY

CATEGORY	LOCATION	LOCATION	SPV.0035.01 CY
0010	VERONA ROAD BELTLINE	DETENTION BASIN A	4,350
		DETENTION BASIN B	1,650
		TOTAL	6,000

UTILITY LINE OPENING

CATEGORY	LOCATION	SPV.0060.01 UTILITY LINE OPENING (ULO) EACH
0010	UNDISTRIBUTED	30

CONCRETE WEIR WALL

CATEGORY	PROJECT LOCATION	STATION	SPV.0060.68 6 1/2-INCH EACH	SPV.0060.69 18-INCH EACH
0010	TODD DRIVE	10+63 TD	1	---
		1196+22	---	1
		TOTALS	1	1

REESTABLISH SECTION CORNER MONUMENTS

CATEGORY	PROJECT LOCATION	SPV.0060.83 EACH
0020	CTH M & FISH HATCHERY ROAD	1

STREET SWEEPING

CATEGORY	PROJECT LOCATION	SPV.0075.01 HRS
0010	UNDISTRIBUTED	80

TEMPORARY PEDESTRIAN/BICYCLE ACCESS

CATEGORY	PROJECT LOCATION	STATION - STATION	LOCATION	SPV.0180.01 SY	REMARKS
0010	BELTLINE STORM SEWER CROSSING	1125+66 - 1126+85	LT	75	8' WIDE
		SUBTOTAL		75	
	WEST BELTLINE FRONTAGE ROAD	81+00 SF - 83+95 SF	RT	260	8' WIDE
		SUBTOTAL		260	
	VERONA RD	10+49 BI - 11+59 BI	LT/RT	140	10' WIDE
		14+35 BI - 16+00 BI	RT	190	10' WIDE
		116+38 EE - 117+23 EE	LT	75	5' WIDE
		SUBTOTAL		405	
		TOTAL		740	

EXCAVATING, HAULING, AND DISPOSAL OF CONTAMINATED SOIL AND MANAGEMENT OF CONTAMINATED GROUNDWATER

CATEGORY	PROJECT ID	LOCATION	SPV.0195.01 TON
0010	1206-07-77	UNDISTRIBUTED	2,000

SHORING LEFT IN PLACE

CATEGORY	PROJECT LOCATION	STATION - STATION	SPV.0165.08 SF
0010	SAND & TRASH COLLECTOR	1195+82 - 1196+82	1,400

CPM PROGRESS SCHEDULE

CATEGORY	PROJECT ID	108.4400 EACH
0010	1206-07-81	0.01

MOBILIZATION

CATEGORY	PROJECT ID	619.1000 EACH
0010	1206-07-81	0.01

ROCK EXCAVATION

CATEGORY	LOCATION	SPV.0035.04 ROCK EXCAVATION SPECIAL CY
0010	UNDISTRIBUTED	10
0020	UNDISTRIBUTED	10
0030	UNDISTRIBUTED	5
	TOTAL	25

UTILITY LINE OPENING

CATEGORY	LOCATION	SPV.0060.01 UTILITY LINE OPENING (ULO) EACH
0010	UNDISTRIBUTED	1
0030	UNDISTRIBUTED	1
	TOTAL	2

SANITARY SEWER STRUCTURES

CATEGORY	SAS NO.	STATION	LOCATION (OFFSET)	FINAL TOP OF CASTING	EXISTING TOP OF CASTING	NET ADJUST HEIGHT	EXISTING ADJUSTMENT HEIGHT	IE	DEPTH	611.8110 ADJUSTING MANHOLE COVERS EACH	SPV.0060.22 SANITARY SEWER ACCESS STRUCTURE (4-FOOT DIAMETER) EACH	SPV.0060.23 MANHOLE COVERS TYPE MAD EACH	SPV.0060.24 SANITARY SEWER INTERNAL CHIMNEY SEAL EACH	SPV.0060.25 SANITARY SEWER TAP EACH	SPV.0060.28 REMOVE SANITARY SEWER STRUCTURE EACH	REMARKS
0010	BE-3	800+20.49	15.6' LT	1003.70	---	---	---	991.35	12.35	---	1	1	1	2	1	---
	3568-003	101+59.73	29.7' LT	1011.40	---	---	---	992.97	18.43	---	1	1	1	2	1	---
	3668-001	104+59.46	24.1' LT	1008.63	---	---	---	992.21	16.42	---	1	1	1	2	1	---
	3662-002	995+15.35 VR	85.5' LT	998.83	998.90	-0.07	1.25	---	---	1	---	---	---	---	---	---
	3261-020	70+19.49 WP	1.8' LT	1001.92	1001.28	0.64	0.08	---	---	1	---	---	---	---	---	---
	3261-021	72+94.44 WP	22.7' RT	1002.55	1002.47	0.08	0.08	---	---	1	---	---	---	---	---	---
	3567.020	19+86.42 FP	15.8' RT	1002.17	1000.96	1.21	0.67	---	---	1	---	---	---	---	---	---
	3869-006	96+55.97 SS	27.1' LT	950.50	950.93	-0.43	1.25	---	---	1	---	---	---	---	---	---
	3766-002	51+18.70 WW	21.3' RT	1009.24	1009.46	-0.22	0.08	---	---	1	---	1	---	---	---	REPLACE 4" CASTING AND FRAME FROM SALVAGED CASTING SAS 3866-012
	3866-012	52+36.31 WW	4.6' LT	1009.30	1008.20	1.10	0.25	---	---	1	---	---	---	---	---	REPLACE 4" CASTING WITH 9" CASTING
								SUBTOTALS (0010)		7	3	4	3	6	3	
0020																
	BE-2	801+03.20	8.3' RT	1004.62	---	---	---	991.14	13.48	---	1	1	1	---	---	---
	BE-4	801+22.41	25.8' RT	1004.66	---	---	---	991.08	13.58	---	1	1	1	1	---	---
								SUBTOTALS (0020)		---	2	2	2	1	---	
0030	N-1	1301+84.28	9.8' RT	924.22	---	---	---	911.18	13.04	---	1	1	---	2	---	---
	N-2	1300+85.78	31.6' RT	924.73	---	---	---	916.48	8.25	---	1	1	1	1	---	---
								SUBTOTALS (0030)		---	2	2	1	3	---	
								TOTALS		7	7	8	6	10	3	

SANITARY SEWER PIPES

CATEGORY	LOCATION (DOWNSTREAM)	LOCATION (UPSTREAM)	IE (DOWNSTREAM)	IE (UPSTREAM)	SLOPE (%)	SPV.0035.03 ABANDON SANITARY SEWER - SLURRY CY	SPV.0060.26 SANITARY LATERAL ELECTRONIC MARKER EACH	SPV.0060.27 SANITARY LATERAL RECONNECT EACH	SPV.0060.29 ABANDON SANITARY SEWER - PIPE PLUG EACH	SPV.0090.09 SANITARY SEWER PIPE, 8-INCH LF	SPV.0090.10 SANITARY SEWER PIPE, 10-INCH LF	SPV.0090.11 SANITARY SEWER LATERAL LF	SPV.0090.12 SELECT FILL FOR SANITARY SEWER LF
0010	SAS BE-2	SAS BE-3	991.14	991.35	0.24	---	1	1	---	---	55	2	55
	SAS BE-3	SAS BE-4	---	---	---	1	---	---	1	---	---	---	---
				SUBTOTALS (0010)		1	1	1	1	---	55	2	55
0020	SAS BE-4	SAS BE-2	991.08	991.14	0.24	---	---	---	---	---	26	---	26
	SAS BE-2	SAS BE-3	991.14	991.35	0.24	---	---	---	---	---	31	---	31
	SAS BE-3	SAS BE-4	---	---	---	1	---	---	1	---	---	---	---
				SUBTOTALS (0020)		1	---	---	1	---	57	---	57
0030	SAS N-1	SAS N-2	913.18	916.48	3.27	---	---	---	---	101	---	---	101
	SAS 3962-017	SAS N-2	---	---	---	2	---	---	2	---	---	---	---
				SUBTOTALS (0030)		2	---	---	2	101	---	---	101
				TOTALS		4	1	1	4	101	112	2	213

WATER MAIN

CATEGORY	FROM STA.	TO STA.	SPV.0090.15 6-INCH LF	SPV.0090.16 8-INCH LF	SPV.0090.17 16-INCH LF
0030	100+98	105+67	---	---	476
	105+67	105+67	---	28	---
	104+54	104+54	---	10	---
	105+67	105+75	7	---	---
	TOTALS		7	38	476

WATER VALVE

CATEGORY	STATION	OFFSET	SPV.0060.72 8-INCH EACH	SPV.0060.73 16-INCH EACH
0030	100+99	25.0 'LT	---	1
	105+65	7.1 'LT	---	1
	104+54	3.0 'LT	1	---
	105+67	5.0 'LT	1	---
	105+67	18.0 'RT	1	---
	TOTALS		3	2

HYDRANTS

CATEGORY	STATION	OFFSET	SPV.0060.71 EACH
0030	105+74.5	4.2 'RT	1

CUT-IN CONNECTION

CATEGORY	STATION	OFFSET	SPV.0060.70 EACH
0030	100+98	26.6 'LT	1
	104+54	0.4 'LT	1
	105+67	20.5 'RT	1
		TOTAL	3

ABANDON WATER MAIN

CATEGORY	STATION	OFFSET	SPV.0060.30 EACH
0030	104+54	0.4 'LT	1
	105+67	20.5 'RT	1
		TOTAL	2

SELECT FILL FOR WATER MAIN

CATEGORY	LOCATION	SPV.0090.18 LF*
0030	UNDISTRIBUTED	500

* ACTUAL QUANTITY AND LOCATION TO BE FIELD DETERMINED BY ENGINEER

WATER MAIN INSULATION

CATEGORY	LOCATION	SPV.0090.14 LF*
0030	UNDISTRIBUTED	20

* ACTUAL QUANTITY AND LOCATION TO BE FIELD DETERMINED BY ENGINEER

CPM PROGRESS SCHEDULE

CATEGORY	PROJECT ID	108.4400 EACH
0010	1206-07-83	0.15

FINISHING ROADWAY

CATEGORY	PROJECT	213.0100 EACH
0010	1206-07-83	1

REMOVING CURB AND GUTTER

CATEGORY	PROJECT	STATION - STATION	LOCATION	204.0150 LF
0010	1206-07-83	125+22 PD - 125+45 PD	RT	25
		125+43 PD - 126+17 PD	RT	75
		126+04 PD - 126+74 PD	RT	70
		126+10 PD - 126+73 PD	LT	65
		126+25 PD - 126+57 PD	LT	30
		126+90 PD - 127+83 PD	LT	95
		TOTALS		360

REMOVING APRON ENDWALLS

CATEGORY	PROJECT	STATION	LOCATION	204.9060.S.05 EA	DESCRIPTION
0010	1206-07-83	126+26.7 PD	62.6' RT	1	29"X45"

REMOVING CONCRETE SIDEWALK

CATEGORY	PROJECT	STATION	-	STATION	LOCATION	204.0155 SY
0010	1206-07-83	125+57 PD	-	125+83 PD	RT	17
		126+01 PD	-	126+16 PD	RT	15
		126+10 PD	-	126+32 PD	CL	27
		126+30 PD	-	126+45 PD	LT	9
		TOTAL				68

BASE AGGREGATE DENSE

CATEGORY	PROJECT	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON
0010	1206-07-83	93+00 MR - 99+65 MR	LT/RT	---	290
		101+35 MR - 107+00 MR	LT/RT	---	390
		10+00 Y - 13+89 Y	LT/RT	---	320
		6+11 Z - 10+00 Z	LT/RT	---	360
		126+25 PD - 126+53 PD	LT	---	15
		126+09 PD - 126+73 PD	CTR	---	30
		126+31 PD - 127+97 PD	DRIVEWAY LT	160	---
		TOTALS		160	1,405

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

ASPHALT ITEMS

CATEGORY	PROJECT	STATION - STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG 58-28 TON	455.0115 ASPHALTIC MATERIAL PG 64-22 TON	455.0605 TACK COAT GAL	460.1101 HMA PAVEMENT TYPE E-1 TON	460.1110 HMA PAVEMENT TYPE E-10 TON
0010	1206-07-83	93+00 MR - 96+83 MR	LT/RT	3.9	---	11	70	---
		101+56 MR - 107+00 MR	LT/RT	5.5	---	15	100	---
		10+00 Y - 13+84 Y	LT/RT	4.0	---	11	72	---
		6+19 Z - 10+00 Z	LT/RT	3.9	---	11	71	---
		125+22 PD - 127+83 PD	LT/RT	---	1.2	2	---	22
		TOTALS		17.3	1.2	50	313	22

ASPHTALTIC FLUMES

CATEGORY	PROJECT	STATION	LOCATION	465.0315 SY
0010	1206-07-83	94+85 MR	RT	5
	1206-07-83	97+33 MR	LT	5
	TOTALS			10

CONCRETE SIDEWALK 7-INCH

CATEGORY	PROJECT	STATION - STATION	LOCATION	602.0420 SF
0010	1206-07-83	125+43 PD - 125+96 PD	RT	390
		126+09 PD - 126+74 PD	MEDIAN	770
		126+31 PD - 127+53 PD	LT	740
		TOTALS		1,900

CURB AND GUTTER SUMMARY

CATEGORY	PROJECT	STATION - STATION	LOCATION	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0576 CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE J LF	650.5500 CONSTRUCTION STAKING CURB GUTTER & CURB AND GUTTER LF
0010	1206-07-83	125+21 PD - 125+45 PD	MED RT	24	---	---	24
		126+04 PD - 126+38 PD	MED RT	---	---	34	34
		126+37 PD - 126+74 PD	MED RT	37	---	---	37
		126+11 PD - 126+47 PD	MED LT	---	---	36	36
		126+47 PD - 126+73 PD	MED LT	26	---	---	26
		125+43 PD - 126+17 PD	RT	74	---	---	74
		126+25 PD - 126+57 PD	LT	---	---	32	32
		126+90 PD - 127+83 PD	LT	94	---	---	94
		10+17 Y 12+00 Y	RT	---	185	---	185
		6+18 Z 9+84 Z	LT	---	370	---	370
		95+72 MR 96+66 MR	RT	---	93	---	93
		103+75 MR 104+29 MR	RT	---	53	---	53
		104+95 MR 105+08 MR	LT	---	13	---	13
		TOTALS		255	714	102	1,071

EARTHWORK

CATEGORY	PROJECT	STATION - STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT (2) CY	EBS EXCAVATION (3) CY	EBS EXCAVATION GRANULAR (4)	UNUSABLE PAVEMENT MATERIAL CY	AVAILABLE MATERIAL (5) CY	REDUCED EBS IN FILL (6) 0.80 CY	EXPANDED EBS BACKFILL (7) 1.25 CY	UNEXPANDED FILL CY	UNEXPANDED GRANULAR FILL	EXPANDED FILL (8) 1.25 CY	EXPANDED GRANULAR (9) 1.25 CY	MASS ORDINATE +/- (10)	208.0100 BORROW CY	209.0100 BACKFILL GRANULAR (11) CY
0010	1206-07-83	93+00 MR - 107+00 MR	MR LINE	270	1,588	1,278	0	270	2,293	1,986	2,399	207	2,999	1,856	-2,421		1,850
		10+00 Y - 13+89.45 Y	Y LINE	25	278	0	0	25	223	348	1,263	0	1,579	0	-1,679		0
		6+10.85 Z - 10+00 Z	Z LINE	14	814	0	0	14	651	1,017	264	0	330	0	-683		0
		125+00 PD - 127+50 PD	CTH PD	188	9	0	100	88	8	12	11	0	14	0	70		0
TOTALS				496	2,689	1,278	100	397	3,175	3,363	3,937	207	4,922	1,856	-4,713	4,713	1,850
ITEM TOTALS					4,463											4,713	1,850

1) EXCAVATION COMMON IS THE SUM OF THE CUT, EBS EXCAVATION, AND EBS EXCAVATION GRANULAR COLUMNS. ITEM NUMBER 205.0100.
2) SALVAGED PAVEMENT MATERIAL IS INCLUDED IN CUT.
3) EBS EXCAVATION TO BE BACKFILLED WITH CUT, OR BORROW (SEE CONSTRUCTION DETAILS).
4) EBS EXCAVATION GRANULAR TO BE BACKFILLED WITH BACKFILL GRANULAR (SEE CONSTRUCTION DETAILS).
5) AVAILABLE MATERIAL = CUT - UNUSABLE PAVEMENT MATERIAL.
6) REDUCED EBS IN FILL: EXCAVATED EBS (EBS+GRANULAR EBS) MATERIAL IS USABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.8.
7) EXPANDED EBS BACKFILL = EBS EXCAVATION * EBS BACKFILL FACTOR. THIS IS TO BE FILLED WITH CUT, OR BORROW (SEE CONSTRUCTION DETAIL). EBS BACKFILL FACTOR = 1.25.
8) EXPANDED FILL = UNEXPANDED FILL * EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25.
9) EXPANDED GRANULAR = (UNEXPANDED GRANULAR FILL + UNEXPANDED EBS EXCVATION GRANULAR) * EXPANSION FACTOR. EXPANSION FACTOR = 1.25.
10) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) + (EBS + EBS GRANULAR)*(EBS REDUCTION FACTOR)) - (EBS)*(EBS EXPANSION FACTOR))- (FILL * FILL FACTOR)
PLUS MASS ORDINATE QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS MASS ORDINATE QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.
11) USED FOR BACKFILL OF EBS GRANULAR AND FILL GRANULAR AS SHOWN ON CONSTRUCTION DETAILS

MOBILIZATION

CATEGORY	PROJECT ID	619.1000 EACH
0010	1206-07-83	0.15

WATER

CATEGORY	PROJECT	STATION - STATION	624.0100 MGAL	REMARKS
0010	1206-07-82	93+00 MR - 107+00 MR	7	DUST CONTROL
		93+00 MR - 107+00 MR	8	COMPACTION
		TOTALS	15	

MOBILIZATIONS EROSION CONTROL

CATEGORY	PROJECT	628.1905 EACH	628.1910 EMERGENCY EACH
0010	1206-07-83	3	2

FINISHING ITEMS

CATEGORY	PROJECT	STATION - STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0120.01 WATER FOR SEEDED AREAS MGAL
0010	1206-07-83	125+20 PD - 126+76 PD	LT/RT	10	0.00	---	---	---
		93+00 MR - 99+57 MR	LT/RT	3,000	1.89	55	80	4
		100+56 MR - 107+00 MR	LT/RT	1,900	1.18	35	50	2.5
		SUBTOTAL		4,910	3.07	90	130	6.5
		UNDISTRIBUTED		---	1	25	35	---
		TOTALS		4,910	4.07	115	165	7

SILT FENCE

CATEGORY	PROJECT	STATION - STATION	LOCATION	628.1504 LF	628.1520 MAINTENANCE LF
0010	1206-07-83	93+00 MR - 95+35 MR	LT	245	490
		94+75 MR - 97+25 MR	RT	250	500
		6+18 Z - 9+30 Z	RT	295	590
		SUBTOTAL		790	1,580
		UNDISTRIBUTED		200	400
		TOTALS		990	1,980

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\030296_mq.dgn PLOT DATE : 2/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 43

EROSION MAT

CATEGORY	PROJECT	STATION - STATION	LOCATION	628.2006 URBAN CLASS I TYPE A SY	628.2027 CLASS II TYPE C SY
0010	1206-07-83	125+20 PD - 126+76 PD	LT/RT	10	---
		93+00 MR - 99+57 MR	LT/RT	3,000	25
		100+56 MR - 107+00 MR	LT/RT	1,900	---
		SUBTOTAL		4,910	25
		UNDISTRIBUTED		140	1
		TOTALS		5,050	26

INLET PROTECTION

CATEGORY	PROJECT	STATION - STATION	LOCATION	628.7005 TYPE A EACH	628.7015 TYPE C EACH
0010	MILITARY RIDGE	125+20 PD - 128+00 PD	LT/RT	1	7
		93+00 MR - 99+57 MR	LT/RT	2	2
		100+56 MR - 107+00 MR	LT/RT	3	3
		SUBTOTAL		6	12
		UNDISTRIBUTED		2	3
		TOTALS		8	15

TEMPORARY DITCH CHECKS

CATEGORY	PROJECT	STATION - STATION	LOCATION	628.7504 LF
0010	1206-07-83	93+00 MR - 99+57 MR	LT/RT	40
		100+56 MR - 107+00 MR	LT/RT	20
		SUBTOTAL		60
		UNDISTRIBUTED		15
		TOTALS		75

CULVERT PIPE CHECKS

CATEGORY	PROJECT	STATION	LOCATION	628.7555 EACH	REMARKS
0010	1206-07-83	95+05 MR	LT	10	38"X60"
		99+12 MR	RT	1	12"
		101+18 MR	LT	1	12"
		SUBTOTALS		12	
		UNDISTRIBUTED		3	
		TOTALS		15	

MARKERS CULVERT END

CATEGORY	PROJECT	STATION	OFFSET		633.5200 EACH
0010	1206-07-83	94+27	19.8	RT	1
		95+03	28.0	LT	1
		95+22	30.1	LT	1
		101+18	1.9	RT	1
		TOTAL			4

PERMANENT SIGNING SUPPORT SUMMARY

CATEGORY	PROJECT	SIGN NO.	APPROX. STA.	LOC.	SIGN CODE	SIGN MESSAGE	634.0612 POSTS WOOD 4x6-INCH x 12-FT EACH	REMARKS
0010	1206-07-83	40-1	95+71 MR	LT	D1-1	DESTINATION WITH ARROW	---	MOUNT ON POST WITH SIGN 40-2
		40-2	95+71 MR	LT	D1-2	TWO DESTINATIONS WITH ARROWS	1	
		40-3	11+06 Y	LT	W1-1L	LEFT TURN (BICYCLE ROUTE)	1	
		40-4	125+44 PD	RT	D1-1	DESTINATION WITH ARROW	1	
		40-5	13+76 Y	LT	R5-3	NO MOTOR VEHICLES	1	
		40-6	13+76 Y	RT	R1-2	YIELD (BICYCLE ROUTE)	1	
		40-7	13+55 Y	RT	D11-1	BIKE ROUTE	1	
		40-8	13+55 Y	RT	M7-4	ARROW TILT UP (BICYCLE ROUTE)	---	MOUNT BELOW SIGN 40-7
		40-9	10+65 Y	LT	W3-1	STOP AHEAD (BICYCLE ROUTE)	1	
		41-1	6+24 Z	LT	R1-2	YIELD (BICYCLE ROUTE)	1	
		41-2	6+26 Z	RT	R5-3	NO MOTOR VEHICLES	1	
		41-3	6+50 Z	LT	D11-1	BIKE ROUTE	1	
		41-4	6+50 Z	LT	M7-4	ARROW TILT UP (BICYCLE ROUTE)	---	MOUNT BELOW SIGN 41-3
		41-5	9+00 Z	RT	W1-1L	LEFT TURN (BICYCLE ROUTE)	1	
		41-6	104+25 MR	RT	D1-1	DESTINATION WITH ARROW	---	MOUNT ON POST WITH SIGN 41-7
		41-7	104+25 MR	RT	D1-2	TWO DESTINATIONS WITH ARROWS	1	
		41-8	127+60 PD	RT	D1-1	DESTINATION WITH ARROW	1	
		41-9	9+30 Z	RT	W3-1	STOP AHEAD (BICYCLE ROUTE)	1	
		TOTALS					14	

PERMANENT SIGNING SUMMARY

CATEGORY	PROJECT	SIGN NO.	APPROX. STA.	LT/RT	SIGN CODE	SIGN MESSAGE	SIGN SIZE (W x H) IN	637.0202 SIGNS REFLECTIVE TYPE II SF	SIGN MOUNTED ON SAME POST AS
0010	1206-07-83	40-1	95+71 MR	LT	D1-1	DESTINATION WITH ARROW	36 X 6	1.50	40-2
		40-2	95+71 MR	LT	D1-2	TWO DESTINATIONS WITH ARROWS	36 X 12	3.00	---
		40-3	11+06 Y	LT	W1-1L	LEFT TURN (BICYCLE ROUTE)	18 X 18	2.25	---
		40-4	125+44 PD	RT	D1-1	DESTINATION WITH ARROW	42 X 6	1.75	---
		40-5	13+76 Y	LT	R5-3	NO MOTOR VEHICLES	24 X 24	4.00	---
		40-6	13+76 Y	RT	R1-2	YIELD (BICYCLE ROUTE)	18 X 18	2.25	---
		40-7	13+55 Y	RT	D11-1	BIKE ROUTE	24 X 18	3.00	---
		40-8	13+55 Y	RT	M7-4	ARROW TILT UP (BICYCLE ROUTE)	12 X 9	0.75	40-7
		40-9	10+65 Y	LT	W3-1	STOP AHEAD (BICYCLE ROUTE)	18 X 18	2.25	---
		41-1	6+24 Z	LT	R1-2	YIELD (BICYCLE ROUTE)	18 X 18	2.25	---
		41-2	6+26 Z	RT	R5-3	NO MOTOR VEHICLES	24 X 24	4.00	---
		41-3	6+50 Z	LT	D11-1	BIKE ROUTE	24 X 18	3.00	---
		41-4	6+50 Z	LT	M7-4	ARROW TILT UP (BICYCLE ROUTE)	12 X 9	0.75	41-3
		41-5	9+00 Z	RT	W1-1L	LEFT TURN (BICYCLE ROUTE)	18 X 18	2.25	---
		41-6	104+25 MR	RT	D1-1	DESTINATION WITH ARROW	36 X 6	1.50	---
		41-7	104+25 MR	RT	D1-2	TWO DESTINATIONS WITH ARROWS	36 X 12	3.00	---
		41-8	127+60 PD	RT	D1-1	DESTINATION WITH ARROW	42 X 6	1.75	---
		41-9	9+30 Z	RT	W3-1	STOP AHEAD (BICYCLE ROUTE)	18 X 18	2.25	---
		TOTALS						41.50	

TRAFFIC CONTROL DETOUR PROJECT

CATEGORY	PROJECT ID	PROJECT LOCATION	643.2000 EACH
0010	1206-07-83	MILITARY RIDGE STATE PATH	1

TRAFFIC CONTROL PROJECT

CATEGORY	PROJECT	643.0100 EACH
0010	1206-07-83	1

MOVING/REMOVING SIGN ITEMS

CATEGORY	PROJECT	SIGN NUMBER	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.2102 MOVING SIGNS TYPE II EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	SIGN MOUNTED ON SAME SUPPORT AS	DESCRIPTION
0010	1206-07-83	E40-1	W11-2	1	1	---	---	---	PEDESTRIAN CROSSING
		E40-2	W16-7L	1	---	---	---	E40-1	LEFT DIAGONAL DOWNWARD POINTING ARROW
		E40-3	---	1	1	---		---	MILITARY RIDGE PATH INFORMATION
		E40-4	R1-1	---	---	1	1	---	STOP, BICYCLE
		E41-1	R1-1	---	---	1	1	---	STOP, BICYCLE
		E41-2	W11-2	1	1	---	---	---	PEDESTRIAN CROSSING
		E41-3	W16-7L	1	---	---	---	E41-2	LEFT DIAGONAL DOWNWARD POINTING ARROW
		E41-4	---	1	1	---	---	---	MILITARY RIDGE PATH INFORMATION
		TOTALS		6	4	2	2		

TRAFFIC CONTROL

CATEGORY	PROJECT	Stage	STATION	-	STATION	DURATION (DAYS)	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS EACH	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS	643.3000 TRAFFIC CONTROL DETOUR SIGNS EACH	643.3000 TRAFFIC CONTROL DETOUR SIGNS DAYS
0010	1206-07-83	STAGE 1	120+00	-	135+00	30	71	2,130	2	60	4	120	33	990	2	60	15	450	2	60	---	---
		STAGE 2	120+00	-	135+00	30	55	1,650	3	90	6	180	26	780	2	60	13	390	2	60	---	---
		BIKE PATH DETOUR	---	-	---	175	---	---	7	1,225	14	2,450	---	---	---	---	---	---	---	---	47	8,225
		TOTALS				235	126	3,780	12	1,375	24	2,750	59	1,770	4	120	28	840	4	120	47	8,225

PAVEMENT MARKING

CATEGORY	PROJECT	STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH (WHITE) LF	646.0106 EPOXY 4-INCH (YELLOW) LF	646.0106 EPOXY 4-INCH (12.5' SEG. 37.5' GAP) (WHITE) LF
0010	1206-07-83	122+89 PD - 128+22 PD	EB CTH PD	535	---	140
		10+07 Y - 13+84 Y	CENTERLINE	---	135	---
		6+19 Z - 9+93 Z	CENTERLINE	---	190	---
			TOTALS	535	325	140
			ITEM TOTALS		1,000	

TEMPORARY PAVEMENT MARKING

CATEGORY	PROJECT	STATION - STATION	LOCATION	646.0600 REMOVING PAVEMENT MARKINGS LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE) LF
0010	1206-07-83	122+75 - 128+25	CTH PD EB MEDIAN	---	550
		123+00 - 129+00	CTH PD EB CENTER LINE	150	150
		123+00 - 129+00	CTH PD EB BIKE LANE LINE	625	---
		125+15 - 127+50	CTH PD WB MEDIAN	---	235
		TOTALS		775	935

CONCRETE BARRIER

CATEGORY	PROJECT	STATION - STATION	LOCATION	603.8000 TEMPORARY PRECAST DELIVERED LF	603.8125 TEMPORARY PRECAST INSTALLED LF	614.0905 CRASH CUSHIONS TEMPORARY EACH
0010	1206-07-83	125+35 - 127+65	CTH PD EB MED	230	230	---
		125+35	CTH PD EB MED	---	---	1
		125+91 - 126+81	CTH PD WB MED	90	90	---
		126+81	CTH PD WB MED	---	---	1
		TOTALS		320	320	2

CONSTRUCTION STAKING

CATEGORY	PROJECT	STATION		- STATION		LOCATION	650.4500 SUBGRADE LF	650.5000 BASE LF	650.9920 SLOPE STAKES LF	SPV.0060.07 CURB RAMP EACH
0010	1206-07-83	93+00	MR	97+00	MR	CL	400	400	400	---
		101+50	MR	107+00	MR	CL	550	550	550	---
		10+00	Y	13+84	Y	CL	385	385	385	---
		6+19	Z	10+00	Z	CL	380	380	380	---
		125+50 PD				RT	---	---	---	1
		127+45 PD				LT	---	---	---	1
		TOTALS					1,715	1,715	1,715	2

SAWING

CATEGORY	PROJECT	STATION - STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF
0010	1206-07-83	125+21 PD - 126+74 PD	RT	240	25
		126+10 PD - 127+83 PD	LT	200	15
		SUBTOTALS		440	40
		UNDISTRIBUTED		44	4
		TOTALS		484	44

TEMPORARY PEDESTRIAN/BICYCLE ACCESS

CATEGORY	PROJECT	STATION - STATION	LOCATION	SPV.0180.01 SY	REMARKS
0010	1206-07-83	125+46 PD - 125+96 PD	RT	25	5' WIDE

STORM SEWER PIPE REINFORCED CONCRETE

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	610.0138 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 38X60 INCH LF	610.0429 STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45 INCH LF
0010	MR500	MR505	---	29	---	---
	MR505	MR510	---	95	---	---
	MR508	MR510	8	---	---	---
	MR510	MR512	180	---	---	---
	MR512	MR520	---	79	---	---
	MR515	MR520	---	24	---	---
	MR520	MR525	---	41	---	---
	MR525	MR530	---	39	---	---
	MR530	-	---	---	---	---
	MR900	MR905	---	---	---	9
	MR905	MR915	---	---	39	---
	MR910	MR905	---	9	---	---
	MR915	MR925	---	---	257	---
	MR920	MR925	21	---	---	---
	MR925	MR930	---	---	115	---
	MR930	-	---	---	---	---
	MR935	MR940	---	---	78	---
	MR940	-	---	---	---	---
		TOTALS	209	316	489	9

MANHOLES AND INLETS SUMMARY

CATEGORY	STRUCT. NO.	STATION	OFFSET	522.1012 APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH EACH	523.0538 HORIZONTAL ELLIPTICAL 38X60-INCH EACH	611.9800.S PIPE GRATES EACH	611.2003 MANHOLES 3-FT DIA EACH	611.2004 MANHOLES 4-FT DIA EACH	611.2008 MANHOLES 8-FT DIA EACH	SPV.0060.14 MANHOLES 9-FT DIA EACH	611.3230 INLETS 2X3-FT EACH	611.0530 MANHOLE COVERS TYPE J *EACH	611.0545 MANHOLE COVERS TYPE L *EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0633 INLET COVERS TYPE HM-GJ-S EACH	520.8000 CULVERT PIPE CONCRETE COLLAR *EACH	SPV.0060.10 STORM SEWER TAP EACH	650.4000 CONSTRUCTION STAKING STORM SEWER EACH
0010	MR500	105+00.00	MR 6.5 ' LT	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	1
	MR505	104+75.00	MR 9.0 ' RT	---	---	---	1	---	---	---	---	1	---	---	---	---	---	---	1
	MR508	103+83.50	MR 6.5 ' RT	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	1
	MR510	103+80.00	MR 14.0 ' RT	---	---	---	---	1	---	---	---	1	---	---	---	---	---	---	1
	MR512	102+00.00	MR 20.6 ' RT	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	1
	MR515	101+18.26	MR 0.1 ' LT	1	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	MR520	101+20.27	MR 29.6 ' RT	---	---	---	---	1	---	---	---	1	---	---	---	---	---	---	1
	MR525	100+84.65	MR 50.0 ' RT	---	---	---	---	---	---	---	1	---	---	1	---	---	---	---	1
	MR530	101+04.51	MR 83.4 ' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---
	MR900	99+35.88	MR 14.9 ' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---
	MR905	99+27.00	MR 15.0 ' RT	---	---	---	---	---	---	1	---	---	1	---	---	---	---	---	1
	MR910	99+12.45	MR 18.2 ' RT	1	---	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	MR915	99+04.91	MR 16.7 ' LT	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	1
	MR920	96+47.00	MR 6.5 ' LT	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	1
	MR925	96+47.00	MR 27.7 ' LT	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	1
	MR930	95+20.63	MR 30.1 ' LT	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	MR935	95+05.21	MR 29.1 ' LT	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	MR940	94+25.14	MR 20.8 ' RT	---	1	1	---	---	---	---	---	---	---	---	---	---	---	---	1
	---	100+00.00	MR 13.3 ' LT	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---
		TOTALS		2	3	5	1	2	2	1	5	3	2	1	5	1	1	1	16

DECORATIVE PEDESTRIAN BOLLARD LUMINAIRE

CATEGORY	PROJECT	BOLLARD NO.	STATION	LOCATION	SPV.0060.66 EA
0020	1206-07-83	BOL-1	104+44.80 PR-MR	6.63' LT	1
		BOL-2	103+64.80 PR-MR	6.63' LT	1
		BOL-3	102+84.80 PR-MR	6.62' LT	1
		BOL-4	102+04.80 PR-MR	6.63' LT	1
		BOL-5	101+19.75 MR	6.63' LT	1
		BOL-6	98+84.74 MR	6.37' RT	1
		BOL-7	98+03.02 MR	4.43' RT	1
		BOL-8	97+21.37 MR	5.65' RT	1
		BOL-9	96+36.62 PR-MR	6.63' RT	1
		BOL-10	95+56.62 PR-MR	6.63' RT	1
				TOTAL	10

INSTALL CONDUIT INTO EXISTING ITEM

CATEGORY	PROJECT	LOCATION	STATION	EQUIP. LOCATION	652.0700.S EACH
0020	1206-07-83	EXLP-18	125+45 PD	5.00'RT	1
		EXLP-19	127+45 PD	10.00'LT	1
				TOTAL	2

PULL BOXES, CONCRETE POLYMER, 24x36-INCH

CATEGORY	PROJECT	PULL BOX NO.	STATION	LOCATION	SPV. 0060.85 EACH
0020	1206-07-83	PB-1	96+80 MR	9.60' RT	1
		PB-2	101+66 MR	9.61' RT	1
				TOTAL	2

CONDUIT RIGID NONMETALLIC SCHEDULE 40

CATEGORY	PROJECT	EQUIP. LOCATION FROM	EQUIP. LOCATION TO	652.0235 3-INCH LF	652.0225 2-INCH LF	652.0215 1 1/4-INCH LF	652.0205 3/4-INCH LF
0020	1206-07-83	EXLP-18	EXLP-19	250	---	---	---
		LC-1	PB-1	---	---	15	15
		PB-1	LCP-2	---	20	---	---
		LC-1	LCP-2	---	40	---	---
		PB-2	LCP-1	---	10	---	---
			TOTALS	250	70	15	15

LIGHTING CONTROL SUMMARY

CATEGORY	PROJECT	CABINET NO.	STATION	EQUIP. LOCATION	SPV.0060.65 LIGHTING CONTROL CABINET EACH	654.0210 CONCRETE CONTROL CABINET BASES TYPE 8 EACH
0020	1206-07-83	LC-1	96+66 MR	13.27' RT	1	1
		MB-1	96+66 MR	10.79' RT	---	---
				TOTALS	1	1

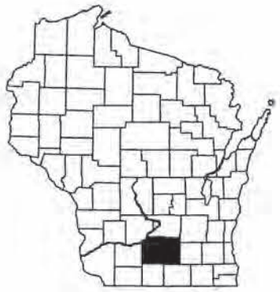
ELECTRICAL WIRE LIGHTING

CATEGORY	PROJECT	EQUIP. LOCATION FROM	EQUIP. LOCATION TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG (GROUND) LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (GROUND) LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG (GROUND) LF	SPV.0090.13 ELECTRICAL WIRE LIGHTING - ALUMINUM 2 AWG LF	SPV.0090.13 ELECTRICAL WIRE LIGHTING - ALUMINUM 2 AWG (GROUND) LF
0020	1206-07-83	EXLP-18	EXLP-19	---	---	---	---	---	---	1,500	500
		LC-1	PB-1	80	40	---	---	40	20	---	---
		LC-1	LCP-2	---	---	80	40	---	---	---	---
		LCP-2	PB-1	40	20	40	---	240	---	---	---
		PB-1	PB-2	---	---	---	---	1030	515	---	---
		PB-1	BOL-9	130	65	---	---	---	---	---	---
		BOL-9	BOL-10	170	85	---	---	---	---	---	---
		PB-1	BOL-8	120	60	---	---	---	---	---	---
		BOL-8	BOL-7	170	85	---	---	---	---	---	---
		BOL-7	BOL-6	170	85	---	---	---	---	---	---
		PB-1	QP-4	---	---	---	---	1960	---	---	---
		PB-1	QP-5	500	250	---	---	---	---	---	---
		PB-1	QP-6	---	---	---	---	1560	---	---	---
		QP-1	PB-2	---	---	---	---	480	---	---	---
		QP-2	PB-2	140	70	---	---	---	---	---	---
		QP-3	PB-2	---	---	---	---	560	---	---	---
		PB-2	BOL-5	930	465	---	---	---	---	---	---
		BOL-5	BOL-4	160	80	---	---	---	---	---	---
		BOL-4	BOL-3	170	85	---	---	---	---	---	---
		BOL-2	BOL-1	170	85	---	---	---	---	---	---
		SUBTOTALS		2,950	1,475	120	40	5,870	535	1,500	500
		TOTALS			4,425		160		6,405		2,000

CONDUIT RIGID METALLIC

CATEGORY	PROJECT	EQUIP. LOCATION FROM	EQUIP. LOCATION TO	652.0105 3/4-INCH LF	652.0115 1 1/4-INCH LF	652.0120 1 1/2-INCH LF	652.0125 2-INCH LF
0020	1206-07-83	PB-1	BOL-9	44	---	---	---
		BOL-9	BOL-10	33	---	---	---
		PB-1	BOL-8	46	---	---	---
		BOL-8	BOL-7	85	---	---	---
		BOL-7	BOL-6	85	---	---	---
		PB-1	LCP-2 (ABOVE GRADE)	---	---	---	5
		LC-1	LCP-2 (ABOVE GRADE)	---	---	---	5
		PB-2	LCP-1 (ABOVE GRADE)	---	---	---	5
		LCP-1	PB-2 (ABOVE GRADE)	---	---	---	5
		PB-1	PB-2	---	515	---	---
		QP-1	PB-2	---	---	70	---
		QP-2	PB-2	70	---	---	---
		QP-3	PB-2	---	---	60	---
		PB-1	BOL-5	465	---	---	---
		BOL-5	BOL-4	80	---	---	---
		BOL-4	BOL-3	85	---	---	---
		BOL-3	BOL-2	85	---	---	---
		BOL-2	BOL-1	85	---	---	---
		PB-1	QP-4	---	---	245	---
		PB-1	QP-5	250	---	---	---
		PB-1	QP-6	---	---	260	---
			TOTAL	1,413	515	635	20

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT 1206-07-26
MOUNT HOREB - MADISON ROAD
(RAYMOND ROAD - SEMINOLE HIGHWAY)
USH 18/151
DANE COUNTY



THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 1206-07-26.

NOTES

DISTANCES SHOWN FROM BUILDINGS TO RIGHT OF WAY LINES ARE APPROXIMATE.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

ALL RIGHT-OF-WAY LINES DEPICTED IN NON ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 18/151 (VERONA ROAD) ESTABLISHED FROM PREVIOUS PROJECT 1201-05-21, T 017-2(50), AND F 017-2(15) ALONG WITH FOUND IRONS RELATING TO ABUTTING SURVEYS, CERTIFIED SURVEY MAPS AND SUBDIVISION PLATS OF RECORD.
EXISTING HIGHWAY RIGHT-OF-WAY FOR MIDVALE BOULEVARD ESTABLISHED FROM PREVIOUS PROJECT T 5201(1), TRANSPORTATION PROJECT PLAT 1206-07-23-4.01, ALONG WITH FOUND IRONS RELATING TO ABUTTING SURVEYS, CERTIFIED SURVEY MAPS AND SUBDIVISION PLATS OF RECORD.
EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 12/14 (WEST BELTLINE HIGHWAY) ESTABLISHED FROM PREVIOUS PROJECT 104-2(34), 1206-00-21, T 5201(1), AND T 04-2(1) ALONG WITH FOUND IRONS RELATING TO ABUTTING SURVEYS, CERTIFIED SURVEY MAPS AND SUBDIVISION PLATS OF RECORD.
EXISTING HIGHWAY RIGHT-OF-WAY FOR USH'S 12/14 & 18/151 (WEST BELTLINE HIGHWAY) ESTABLISHED FROM PREVIOUS PROJECT T04-2(42), TRANSPORTATION PROJECT PLAT NO. 1206-07-23-4.01, T 5201(1) AND T 04-2(1) ALONG WITH FOUND IRONS RELATING TO ABUTTING SURVEYS, CERTIFIED SURVEY MAPS AND SUBDIVISION PLATS OF RECORD.

EXISTING ACCESS CONTROL ALONG USH 18/151 (VERONA ROAD) ESTABLISHED FROM PREVIOUS PROJECT CA 017-2(2).
NOTE - ACCESS TO MOST PARCELS IS BY FRONTAGE OR LOCAL ROAD ONLY.
EXISTING ACCESS CONTROL ALONG USH 12/14 & 18/151 (WEST BELTLINE HIGHWAY) ESTABLISHED FROM PREVIOUS PROJECT CA 04-2(1).

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE LAND SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

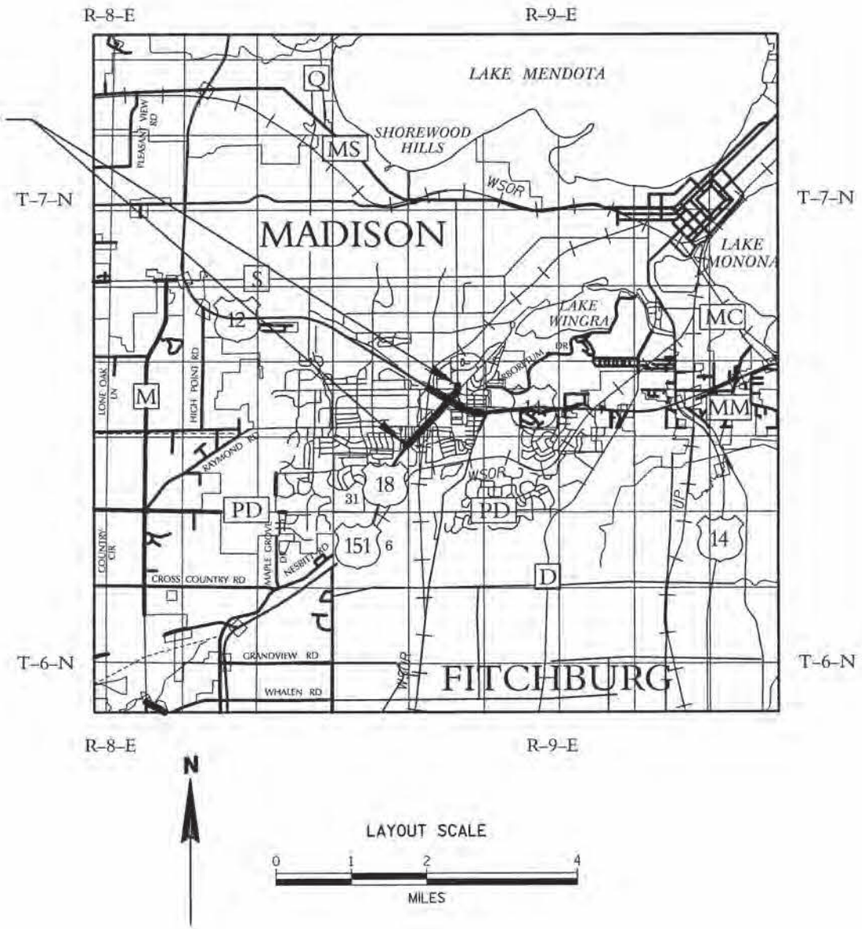
A MAJORITY OF THE SURVEYS AT THE COUNTY SURVEYORS OFFICE SHOW A STRAIGHT LINE CONNECTING THE CITY OF MADISON MONUMENTS AT THE SOUTHWEST CORNER OF SECTION 32 AND THE NORTH ¼ CORNER OF SECTION 5.

A TEMPORARY LIMITED EASEMENT (T.L.E.) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, ALL (T.L.E.'S) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (P.L.E.) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (H.E.), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS AND INTERESTS REQUIRED.



CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	POINT OF CURVATURE	PC
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC.	POINT OF REVERSE CURVATURE	PRC
AGRICULTURAL	AG	PRIVATE DRIVEWAY	P.D.
AHEAD	AH	POINT ON TANGENT	POT
ALUMINUM	ALUM.	PROPERTY LINE	P.L.
AND OTHERS	ET.AL.	RECORDED AS	(100')
BACK	BK	REFERENCE LINE	R
BLOCK	BLK	REMAINING	REM.
CENTERLINE	C/L	RIGHT	RT.
CERTIFIED SURVEY MAP	C.S.M.	RIGHT OF WAY	R/W
CONCRETE	CONC.	SECTION	SEC.
CORNER	COR.	SEPTIC VENT	SEPV.
COUNTY	CO.	SQUARE FEET	S.F.
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST.	STATION	STA.
DOCUMENT NUMBER	DOC.	SUBDIVISION	SUBD
EASEMENT	EASE	TANGENT	TAN.
EXISTING	EX.	TELEPHONE PEDESTAL	T.P.
GAS VALVE	G.V.	TEMPORARY LIMITED EASEMENT	T.L.E.
GRID NORTH	GN	TRANSPORTATION PROJECT PLAT	TPP
HIGHWAY EASEMENT	H.E.	UNITED STATES HIGHWAY	USH
IDENTIFICATION	ID.	VOLUME	V.
LAND CONTRACT	LC	WITH	W/
LEFT	LT.	**CURVE DATA**	
MONUMENT	MON.	LONG CHORD	L.C.
NATIONAL GEODETIC SURVEY	NGS	LONG CHORD BEARING	L.C.B.
NUMBER	NO.	RADIUS	R.
OUTLOT	O.L.	DEGREE OF CURVE	D.
PAGE	P.	CENTRAL ANGLE OR DELTA	Δ.
PART OF	PT.	LENGTH OF CURVE	L.
PERMANENT LIMITED EASEMENT	P.L.E.	TANGENT	T.
POINT OF BEGINNING	P.O.B.	DIRECTION AHEAD	DA.
POINT OF COMPOUND CURVE	PCC	DIRECTION BACK	DB.

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" IRON PIPE UNLESS NOTED)	●	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	○ ●(SET)	PROPERTY LINE	
R/W STANDARD	△ ▲(SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT	⊕	CORPORATE LIMITS	
SECTION CORNER SYMBOL		ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL OR ACQUISITION)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED/HIGHWAY EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	8730	QUARTER LINE	
MATCHING BOUNDARY POINT ON NEXT PAGE	(8730)	SIXTEENTH LINE	
BUILDING		EXISTING CENTERLINE	
BUILDING TO BE REMOVED		PROPOSED REFERENCE LINE	
PARCEL NUMBER	102	PARALLEL OFFSET	
UTILITY PARCEL NUMBER	(92)	RECORD MEASUREMENT (TYP.)	(S 89°35'36" W)
SIGN NUMBER (OFF PREMISE)	21	CHISELED CROSS	"X"

CONVENTIONAL UTILITY SYMBOLS

WATER	—W—	
GAS	—G—	
TELEPHONE	—T—	
OVERHEAD	—OH—	
TRANSMISSION LINES ELECTRIC	—E—	
CABLE TELEVISION	—TV—	
FIBER OPTIC	—FO—	
SANITARY SEWER	—SAN—	
STORM SEWER	—SS—	
	NON COMPENSABLE	COMPENSABLE
POWER POLE	●	▲
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌧	⌧
ELECTRIC TOWER	⊠	

TPP NUMBER 1206-07-26 - 4.01
SHEET 2 OF 2

FILE NAME : S:\MAD\1000--1099\1089\269\Micros\TPP Sheets\040101_rt.DGN | PLOT DATE : 4/5/2012 | PLOT BY : _username_ | PLOT NAME : | PLOT SCALE : $$.....plotscale.....$$

4.01

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO D.O.T.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	EXISTING	TOTAL	T.L.E. ACRES OR S.F.
1	STAR-NAKOMA HEIGHTS LIMITED PARTNERSHIP	TLE	----	----	----	0.112
2	I & A TIME LLC	FEE, TLE	0.058	----	0.058	0.301
3	XIPING ZHOU & LIPING MU, TRUSTEES OF THE ZHOU-MU LIVING TRUST DATED JUNE 29, 2010 AND ANY AMENDMENTS THERETO	TLE	----	----	----	0.011
4	DAVIS HOLDINGS & PROPERTIES LLC	FEE, TLE	0.088	----	0.088	0.197
6	JAMAAR M. BOYD	TLE	----	----	----	0.086

UTILITY SCHEDULE & INTERESTS REQUIRED

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
102	MADISON GAS & ELECTRIC COMPANY - ELECTRIC	RELEASE OF RIGHTS
105	AT&T WISCONSIN - COMMUNICATION	RELEASE OF RIGHTS
----	----	----
113	CITY OF MADISON - SEWER	RELEASE OF RIGHTS
117	MADISON GAS & ELECTRIC COMPANY - GAS	RELEASE OF RIGHTS
118	CITY OF MADISON - WATER	RELEASE OF RIGHTS
121	CENTURYTEL - COMMUNICATION	RELEASE OF RIGHTS
----	----	----

P.I. STA. 970+25.31 VR
Y = 466922.085
X = 800715.933
Δ = 00°10'23" (LT)

P.I. STA. 938+43.32 VR
Y = 464598.194
X = 798417.910
Δ = 29°30'15" (RT)
D = 00°45'00"
T = 1987.84'
L = 3889.44'
R = 7639.44'
PC = 918+55.48 VR
PT = 957+44.92 VR
DB = S 15°30'31" W

N

TRANSPORTATION PROJECT PLAT NO: 1206-07-26 - 4.01

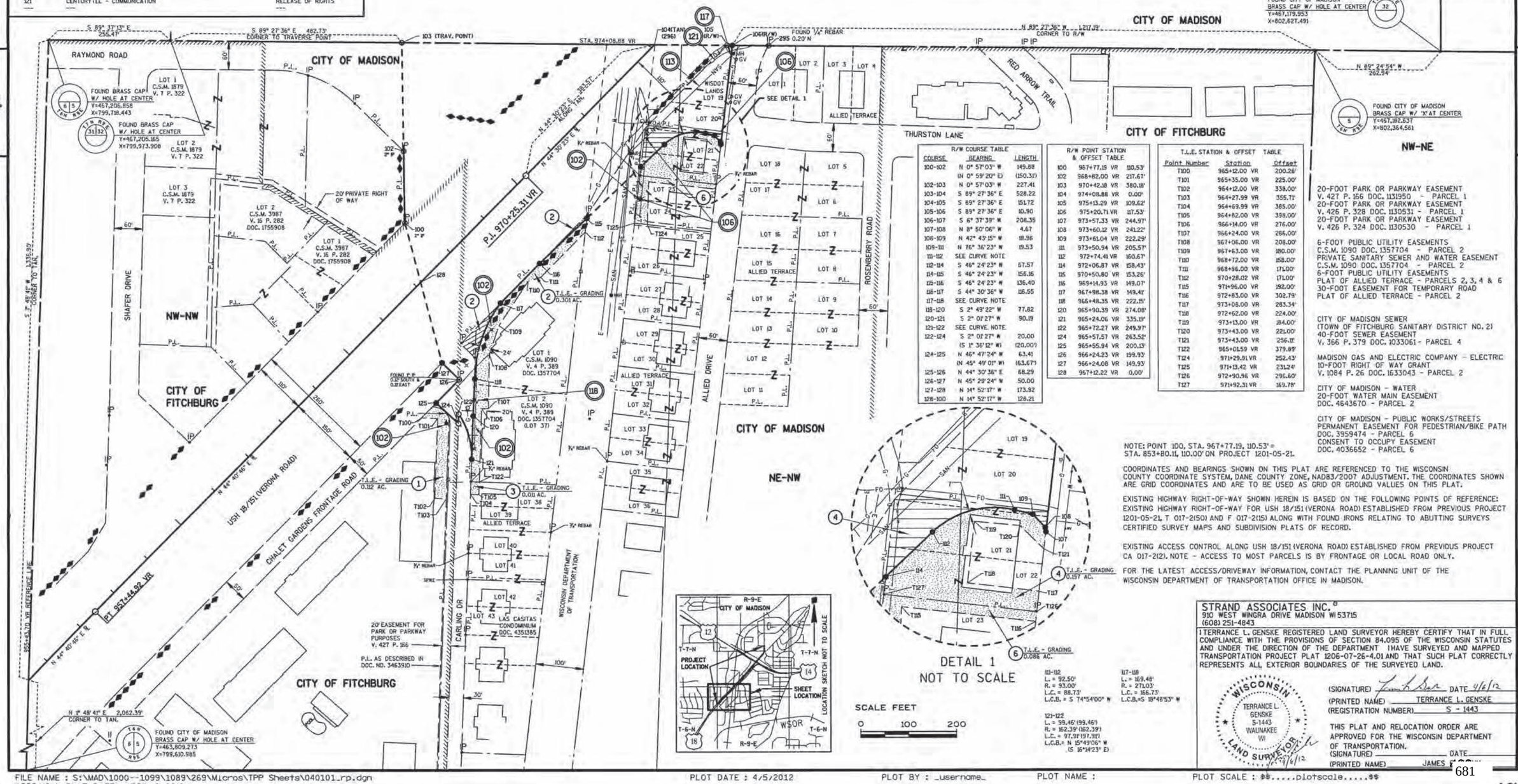
THAT PART OF LOTS 1 AND 2 OF CERTIFIED SURVEY MAP NO. 1090 (BEING A PART OF LOT 37 OF THE PLAT OF ALLIED TERRACE). ALSO THAT PART OF LOTS 20, 21, 22, 23, 24, AND 38 OF THE PLAT OF ALLIED TERRACE. ALSO THAT PART OF THE NW1/4 OF THE NW1/4 AND THE NE1/4 OF THE NW1/4 OF SECTION 5 IN THE CITY OF MADISON. ALSO THAT PART OF THE NW1/4 OF THE NW1/4 OF SECTION 5 IN THE CITY OF FITCHBURG. ALL IN T 6 N, R 9 E, DANE COUNTY, WISCONSIN.

RELOCATION ORDER USH 18/151 DANE COUNTY MOUNT HOREB - MADISON ROAD (RAYMOND ROAD - SEMINOLE HIGHWAY)

TO PROPERLY ESTABLISH LAY OUT WIDEN ENLARGE EXTEND CONSTRUCT RECONSTRUCT IMPROVE OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09 WISCONSIN STATUTES THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2) WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1206-07-26-4.01
SHEET 1 OF 2
AMENDMENT NO:



DETAIL 1
NOT TO SCALE

SCALE FEET
0 100 200

R/W COURSE TABLE

COURSE	BEARING	LENGTH
100-102	N 0° 57' 03" W	149.88
	(N 0° 59' 20" E)	(150.31)
102-103	N 0° 57' 03" W	227.41
103-104	S 89° 27' 36" E	528.22
104-105	S 89° 27' 36" E	151.72
105-106	S 89° 27' 36" E	10.90
106-107	S 6° 37' 39" W	208.35
107-108	N 8° 50' 06" W	4.67
106-109	N 42° 43' 15" W	18.96
109-111	N 76° 36' 23" W	19.53
111-112	SEE CURVE NOTE	
112-114	S 46° 24' 23" W	67.57
114-115	S 46° 24' 23" W	156.16
115-116	S 46° 24' 23" W	136.40
116-117	S 44° 30' 36" W	116.55
117-118	SEE CURVE NOTE	
118-120	S 2° 49' 22" W	77.82
120-121	S 2° 01' 27" W	90.19
121-122	SEE CURVE NOTE	
122-124	S 2° 01' 27" W	20.00
	(S 1° 36' 12" W)	(20.00')
124-125	N 46° 47' 24" W	63.41
	(N 45° 49' 01" W)	(63.67')
125-126	N 44° 30' 36" E	68.29
126-127	N 45° 29' 24" W	50.00
127-128	N 14° 52' 17" W	173.92
128-100	N 14° 52' 17" W	128.21

R/W POINT STATION & OFFSET TABLE

	STATION	OFFSET
100	967+77.19 VR	110.53'
102	968+82.00 VR	217.67'
103	970+42.18 VR	380.18'
104	974+08.88 VR	0.00'
105	975+13.29 VR	109.62'
106	975+20.71 VR	117.53'
107	973+57.33 VR	244.97'
108	973+60.12 VR	241.22'
109	973+61.04 VR	222.29'
111	973+50.94 VR	205.57'
112	972+74.41 VR	160.67'
114	972+06.87 VR	158.43'
115	970+50.80 VR	153.26'
116	969+14.93 VR	149.07'
117	967+88.38 VR	149.41'
118	966+48.35 VR	222.15'
120	965+90.39 VR	274.08'
121	965+24.06 VR	335.19'
122	965+72.27 VR	249.97'
124	965+57.57 VR	263.52'
125	965+55.94 VR	200.13'
126	966+24.23 VR	199.93'
127	966+24.08 VR	149.93'
128	967+12.22 VR	0.00'

T.L.E. STATION & OFFSET TABLE

Point Number	Station	Offset
T100	965+12.00 VR	200.26'
T101	965+35.00 VR	225.00'
T102	964+12.00 VR	338.00'
T103	964+27.99 VR	355.71'
T104	964+69.99 VR	385.00'
T105	964+82.00 VR	398.00'
T106	966+14.00 VR	276.00'
T107	966+24.00 VR	286.00'
T108	967+06.00 VR	208.00'
T109	967+63.00 VR	180.00'
T110	968+72.00 VR	158.00'
T111	968+96.00 VR	171.00'
T112	970+28.02 VR	171.00'
T115	971+96.00 VR	192.00'
T116	972+83.00 VR	302.79'
T117	973+08.00 VR	283.34'
T118	972+62.00 VR	224.00'
T119	973+13.00 VR	184.00'
T120	973+43.00 VR	221.00'
T121	973+43.00 VR	256.11'
T122	965+01.59 VR	379.89'
T124	971+29.91 VR	252.43'
T125	971+13.42 VR	231.24'
T126	972+90.96 VR	296.60'
T127	971+92.31 VR	169.78'

111-112
L = 92.50'
R = 93.00'
L.C. = 88.73'
L.C.B. = S 74°54'00" W

117-118
L = 169.48'
R = 271.03'
L.C. = 166.73'
L.C.B. = S 18°48'53" W

121-122
L = 99.46' (99.46')
R = 162.39' (162.39')
L.C. = 97.91' (97.91')
L.C.B. = N 15°49'06" W (S 16°14'23" E)

20-FOOT PARK OR PARKWAY EASEMENT
V. 427 P. 166 DOC. 1131950 - PARCEL 1
20-FOOT PARK OR PARKWAY EASEMENT
V. 426 P. 328 DOC. 1130531 - PARCEL 1
20-FOOT PARK OR PARKWAY EASEMENT
V. 426 P. 324 DOC. 1130530 - PARCEL 1

6-FOOT PUBLIC UTILITY EASEMENTS
C.S.M. 1090 DOC. 1357704 - PARCEL 2
PRIVATE SANITARY SEWER AND WATER EASEMENT
C.S.M. 1090 DOC. 1357704 - PARCEL 2
6-FOOT PUBLIC UTILITY EASEMENTS
PLAT OF ALLIED TERRACE - PARCELS 2, 3, 4 & 6
30-FOOT EASEMENT FOR TEMPORARY ROAD
PLAT OF ALLIED TERRACE - PARCEL 2

CITY OF MADISON SEWER
(TOWN OF FITCHBURG SANITARY DISTRICT NO. 2)
40-FOOT SEWER EASEMENT
V. 366 P. 379 DOC. 1033061 - PARCEL 4

MADISON GAS AND ELECTRIC COMPANY - ELECTRIC
10-FOOT RIGHT OF WAY GRANT
V. 1084 P. 26 DOC. 1533043 - PARCEL 2

CITY OF MADISON - WATER
20-FOOT WATER MAIN EASEMENT
DOC. 4643670 - PARCEL 2

CITY OF MADISON - PUBLIC WORKS/STREETS
PERMANENT EASEMENT FOR PEDESTRIAN/BIKE PATH
DOC. 3959474 - PARCEL 6
CONSENT TO OCCUPY EASEMENT
DOC. 4036652 - PARCEL 6

NOTE: POINT 100, STA. 967+77.19, 110.53' = STA. 853+80.11, 110.00' ON PROJECT 1201-05-21.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 18/151 (VERONA ROAD) ESTABLISHED FROM PREVIOUS PROJECT 1201-05-21, T 017-2(50) AND F 017-2(15) ALONG WITH FOUND IRONS RELATING TO ABUTTING SURVEYS CERTIFIED SURVEY MAPS AND SUBDIVISION PLATS OF RECORD.

EXISTING ACCESS CONTROL ALONG USH 18/151 (VERONA ROAD) ESTABLISHED FROM PREVIOUS PROJECT CA 017-2(2). NOTE - ACCESS TO MOST PARCELS IS BY FRONTAGE OR LOCAL ROAD ONLY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

STRAND ASSOCIATES INC.®
910 WEST WINGRA DRIVE MADISON WI 53715
(608) 251-4843

I TERRANCE L. GENSKE REGISTERED LAND SURVEYOR HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1206-07-26-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TERRANCE L. GENSKE S-1443 WAUNAKEE WI LAND SURVEYOR

(SIGNATURE) _____ DATE 4/6/12
(PRINTED NAME) TERRANCE L. GENSKE
(REGISTRATION NUMBER) S - 1443

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) JAMES F[illegible]

FILE NAME : S:\MAD\1000--1099\1089\269\Micros\TPP Sheets\040101_rp.dgn
APPRAISAL PLAT DATE : APRIL 6, 2012
PLOT DATE : 4/5/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

TRANSPORTATION PROJECT PLAT NO: 1206-07-26 - 4.02

THAT PART OF LOTS 1, 2, 3 AND OUTLOT 1 OF CERTIFIED SURVEY MAP NO. 10220. ALSO THAT PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 2994 (BEING PART OF LOT 2, PLAT OF BELMAR). ALSO THAT PART OF LOTS 1 AND 2 OF CERTIFIED SURVEY MAP NO. 925 (BEING PART OF LOT 1 OF THE PLAT OF BELMAR). ALSO THAT PART OF LOTS 1, 2 AND 3 OF CERTIFIED SURVEY MAP NO. 7363. ALSO THAT PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 208. ALSO THAT PART OF LOTS 1 AND 2 OF CERTIFIED SURVEY MAP NO. 3065. ALSO THAT PART OF THE SE1/4 OF THE SW1/4, THE SW1/4 OF THE SW1/4 AND THE NE1/4 OF THE SW1/4 OF SECTION 32. ALL IN T 7 N, R 9 E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER USH 18/151 DANE COUNTY MOUNT HOREB - MADISON ROAD (RAYMOND ROAD - SEMINOLE HIGHWAY)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

P.I. STA. 914+90.57 WN
Y = 468,550.872
X = 801,783.228
Δ = 51° 58' 48" (LT)
D = 28° 38' 52"
T = 97.50'
L = 181.44'
R = 200.00'
P.C. = 90+93.07 WN
P.T. = 92+74.51 WN
DB. = S 40° 02' 54" W

P.O.T. STA. 99+85.10 WN
Y = 467,843.356
X = 801,605.594
Δ = 13° 13' 42" (LT)

P.I. STA. 98+73.55 WN
Y = 467,931.451
X = 801,579.718
Δ = 14° 13' 45" (LT)
D = 15° 22' 13"
T = 43.69'
L = 86.92'
R = 350.00'
PC = 98+29.87 WN
PT = 99+16.79 WN
DB. = S 2°06'23" E

P.I. STA. = 94+92.68 WN
Y = 468,338.873
X = 801,569.315
Δ = 41° 31' 01" (LT)
D = 28° 38' 52"
T = 75.81'
L = 144.92'
R = 200.00'
PC = 94+16.87 WN
PT = 95+61.80 WN
DB. = S 40°02'54" W

P.I. STA. 974+99.27 VR
Y = 467,260.096
X = 801,048.859
Δ = 00°49'50" (LT)
D = 00°25'30"
T = 84.47'
L = 168.94'
R = 11,654.00'
PC = 974+14.79 VR
PT = 975+83.73 VR
DB. = S 44°30'23" W
DA. = N 43°40'33" E

P.I. STA. 977+92.27 VR
Y = 467,472.020
X = 801,250.516
Δ = 3°23'54" (RT)
D = 00°48'54"
T = 208.54'
L = 416.96'
R = 7,030.00'
PC = 975+83.73 VR
PT = 980+00.69 VR
DB. = S 43°40'33" W
DA. = N 47°04'27" E

P.I. STA. 990+69.36 VR
Y = 468,341.862
X = 802,185.728
Δ = 6°36'22" (LT)
D = 00°52'18"
T = 379.23'
L = 757.61'
R = 6,571.00'
PC = 986+90.13 VR
PT = 994+47.74 VR
DB. = S 41°04'27" W
DA. = N 40°28'05" E

DECLARATION OF RIGHT OF CROSS-OVER	DOC. 3122186 - PARCEL 8
RECIPROCAL EASEMENT AGREEMENT	DOC. 3180831 PARCELS 13 & 24
ACCESS AGREEMENT	V. 32630 P. 26 - PARCEL 19
6-FOOT UTILITY EASEMENT	C.S.M. 925 DOC. 1339278 - PARCEL 12
30-FOOT MUTUAL TWO-WAY ACCESS EASEMENT	V. 15041 P. 6, DOC. 2233631 - PARCEL 17
PRIVATE WATER AND SANITARY SEWER EASEMENT	C.S.M. 1295 DOC. 1378861, C.S.M. 1481 DOC. 1404416 & C.S.M. 3983 DOC. 1755099 - PARCEL 17
UTILITY EASEMENTS	V. 13848 P. 13 (PER NOTE ON C.S.M. 7363) - PARCEL 18
20-FOOT UTILITY EASEMENT	C.S.M. 4298 DOC. 1821281 - PARCEL 13
10-FOOT UTILITY EASEMENT	C.S.M. 10220 DOC. 3391257 - PARCELS 13 & 14
12-FOOT UTILITY EASEMENT	C.S.M. 10220 DOC. 3391257 - PARCEL 13
MADISON GAS AND ELECTRIC COMPANY - ELECTRIC ELECTRIC LINE EASEMENT	V. 28613 P. 25 DOC. 2637890 - PARCEL 17
UNDERGROUND ELECTRIC EASEMENT	DOC. 2184728 - PARCEL 17
UNDERGROUND ELECTRIC EASEMENT	V. 6162 P. 27 DOC. 1854108 - PARCEL 14
UNDERGROUND ELECTRIC EASEMENT FOR SIGN	V. 13350 P. 12 DOC. 2163657 - PARCEL 14
UNDERGROUND ELECTRIC EASEMENT	CSM 7363 - PARCEL 17
CITY OF MADISON - WATER EASEMENT FOR FIRE HYDRANT PURPOSES	V. 4202 P. 48 DOC. 1767587
20-FOOT WATER EASEMENT	C.S.M. 10220 DOC. 3391257 - PARCEL 24
PUBLIC WATER MAIN EASEMENT	DOC. 4487517 - PARCEL 13
CITY OF MADISON - SEWER 20-FOOT PUBLIC STORM AND PEDESTRIAN EASEMENT	C.S.M. 10220 DOC. 3391257 - PARCEL 13
40-FOOT STORM SEWER EASEMENT	V. 405 P.420 - PARCEL 8
CONSENT TO OCCUPY STORM SEWER EASEMENT	V.2542 P. 27 DOC. 1695622 - PARCEL 8
12-FOOT SANITARY SEWER EASEMENT	V. 293 P. 72 DOC. 921436 - PARCELS 13 & 14
MADISON GAS AND ELECTRIC COMPANY - GAS GAS MAIN EASEMENT	V. 556 P. 806 DOC. 1420725 - PARCEL 16
GAS MAIN EASEMENT	DOC. 2184729 - PARCEL 17
GAS MAIN EASEMENT	DOC. 1762978 - PARCEL 17 (PARTIAL RELEASE IN DOC.4259233)
GAS MAIN EASEMENT	DOC. 2967532 - PARCEL 13
20-FOOT GAS MAIN EASEMENT	V. 306 P. 174 DOC. 941177 - PARCEL 12
AT&T WISCONSIN - TELEPHONE	RIGHT OF WAY GRANT DOC. 1777038 - PARCEL 23
MADISON METROPOLITAN SEWERAGE DISTRICT	
30-FOOT PERMANENT SANITARY SEWER EASEMENT	DOC. 3363271 - PARCEL 13
20-FOOT PUBLIC MMSD SANITARY SEWER EASEMENT	C.S.M. 10220 DOC. 3391257 - PARCEL 24
SEWER EASEMENT	V. 282 P. 390 DOC. 901485 - PARCEL 13

R/W POINT STATION & OFFSET TABLE			
201	979+58.71 WN	443.79'
202	980+93.78 WN	281.50'
203	989+13.18 WN	239.77'
205	995+03.40 WN	141.15'
206	961+15.71 WN	138.94'
207	972+84.56 WN	126.48'
208	982+65.69 WN	138.59'
2001	983+04.25 WN	146.82'
215	972+96.49 WN	140.00'
212	973+07.81 WN	151.31'
213	974+36.82 WN	146.39'
214	976+50.73 WN	145.78'
2002	976+66.44 WN	78.47'
2004	976+25.85 WN	70.67'
233	954+54.68 WN	45.18'
220	951+33.78 WN	45.40'
221	944+18.87 WN	50.35'
223	934+98.22 WN	49.88'
224	929+75.03 WN	48.08'
227	914+44.65 WN	29.06'
228	919+37.26 WN	159.79'
229	916+04.27 SU	96.39'
230	918+55.30 SU	93.49'
231	916+81.46 WN	140.87'
232	918+81.11 WN	160.87'
233	919+36.84 WN	215.76'
234	912+84.09 WN	2.04'
235	914+35.45 WN	174.24'
237	881+45.80 SU	63.50'
241	953+39.31 WN	215.03'
243	893+72.29 WN	249.17'
245	934+05.53 WN	286.68'
246	953+62.41 WN	328.24'
247	953+28.78 WN	288.54'
249	932+75.49 WN	176.50'
250	992+65.67 WN	164.62'
252	976+91.30 WN	162.89'
253	991+26.79 WN	173.42'
255	990+53.39 WN	151.66'
257	990+13.76 WN	250.57'
258	989+28.00 WN	292.53'
260	989+00.84 WN	303.14'
261	988+26.86 WN	328.82'
262	988+18.71 WN	341.07'
264	988+20.70 WN	450.06'
266	977+25.65 WN	236.52'
267	988+3.99 WN	505.39'
268	988+61.44 WN	494.55'
269	967+23.40 WN	497.88'
270	967+56.36 WN	423.20'
272	967+53.55 WN	334.31'
273	967+31.67 WN	338.87'
275	986+24.45 WN	237.69'
277	965+97.95 WN	285.40'
279	984+75.52 WN	241.92'
280	1044+46.41 WN	230.32'
282	983+72.75 WN	309.52'
283	980+06.56 WN	247.55'
284	982+85.84 WN	270.60'
285	982+65.00 WN	250.60'
286	982+65.00 WN	202.68'
287	979+46.91 WN	215.52'
288	979+52.04 WN	231.01'
290	979+56.02 WN	329.60'
291	978+87.24 WN	344.97'
292	978+82.71 WN	195.89'
293	978+67.38 WN	181.32'
295	975+75.14 WN	172.53'
296	974+08.88 WN	0.00'
378	92+3.40 WN	4.81'
2022	96+65.46 SU	58.49'
2024	944+83.65 WN	45.50'
2025	95+36.93 WN	41.50'
2027	96+45.93 WN	29.01'
2028	97+42.81 WN	29.01'
2029	97+83.00 WN	41.34'
2031	984+22.61 WN	237.24'
2033	993+53.95 WN	69.33'
2085	98+49.15 SU	50.50'

P.L.C. COURSE TABLE		
COURSE	BEARING	LENGTH
201-P200	N 6° 37' 21" E	3.00'
P200-P201	S 84° 29' 48" E	236.52'
P201-P209	SEE CURVE NOTE	
P209-P203	S 37° 51' 05" E	99.82'
P203-205	S 57° 16' 31" W	9.03'
205-203	N 37° 51' 05" W	99.12'
203-202	SEE CURVE NOTE	
202-201	N 84° 29' 48" E	236.79'
258-P227	S 53° 01' 51" E	14.62'
P227-262	S 25° 12' 22" W	121.65'
206-P203	S 57° 16' 31" W	3.48'

R/W COURSE TABLE		
COURSE	BEARING	LENGTH
220-223	N 45° 37' 33" W	247.04'
229-227	N 65° 34' 46" E	217.58'
227-228	S 89° 23' 39" E	274.80'
228-233	S 44° 32' 52" W	0.42'
233-234	S 89° 25' 28" E	217.58'
234-236	S 89° 25' 28" E	227.00'
236-2033	S 44° 32' 52" W	75.24'
2033-241	SEE CURVE NOTE	
241-243	SEE CURVE NOTE	
243-245	N 89° 47' 25" E	52.50'
	(S 89° 22' 30" E)	(52.50')
245-246	S 0° 12' 35" E	60.01'
246-247	S 89° 47' 25" E	53.06'
	(S 89° 23' 30" E)	(52.50')
247-248	SEE CURVE NOTE	
248-250	SEE CURVE NOTE	
250-252	S 44° 32' 52" W	72.37'
252-253	SEE CURVE NOTE	
253-255	SEE CURVE NOTE	
255-257	S 8° 28' 23" W	101.27'
	(S 8° 08' 45" W)	(101.25')
257-258	SEE CURVE NOTE	
258-268	S 24° 37' 21" W	310.76'
260-261	S 27° 14' 44" W	81.67'
261-262	S 3° 07' 33" E	14.96'
262-264	S 45° 09' 52" E	109.02'
264-267	S 34° 26' 39" E	58.16'
267-268	S 89° 45' 35" W	15.69'
268-269	S 44° 32' 56" W	86.09'
269-270	SEE CURVE NOTE	
270-272	N 45° 24' 33" W	88.91'
272-273	S 83° 56' 14" W	28.87'
275-277	SEE CURVE NOTE	
279-280	S 68° 48' 51" E	31.34'
280-283	S 00° 00' 00" W	108.61'
282-283	S 90° 00' 00" W	90.39'
283-284	S 0° 17' 37" W	30.26'
284-285	N 89° 06' 35" W	28.89'
285-286	N 0° 00' 00" E	41.32'
286-287	S 44° 35' 08" E	297.34'
287-288	SEE CURVE NOTE	
288-290	S 45° 32' 32" E	99.08'
290-293	S 32° 43' 42" W	67.61'
293-292	N 45° 32' 35" W	149.16'
292-293	SEE CURVE NOTE	
293-295	S 46° 31' 42" W	298.57'
	N 66° 01' 53" E	(298.57')
295-296	N 89° 27' 36" W	238.22'
	(TO TAN.)	
296-207	N 89° 27' 36" W	178.51'
	(TAN. TO TRAVERSE POINT)	
207-211	N 00° 27' 47" W	16.30'
212-212	N 00° 27' 47" W	16.00'
212-213	N 45° 42' 0" E	127.84'
213-214	N 44° 27' 27" E	83.42'
214-258	N 06° 37' 22" E	149.15'
296-201	N 06° 37' 22" E	328.45'
208-2031	N 47° 22' 05" E	167.13'
2065-230	N 44° 32' 52" E	254.00'

NOTE: WISDOT LANDS PREVIOUSLY ACQUIRED BY ADVANCED ACQUISITION PROJECT ID 1206-07-26

FOUND BRASS CAP W/ HOLE AT CENTER Y=467,205.165 X=799,973.908

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 4866377.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

STRAND ASSOCIATES, INC. ®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, TERRANCE L. GENSKE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1206-07-26-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN — TERRANCE L. GENSKE — S-1443 — WAUNAKEE — WI — LAND SURVEYOR

(SIGNATURE) _____ DATE 5/31/2012
(PRINTED NAME) TERRANCE L. GENSKE
(REGISTRATION NUMBER) S - 1443

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) JAMES R. KUEHN

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO D.O.T.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES NEW	R/W ACRES EXISTING	R/W ACRES TOTAL	T.L.E. ACRES OR S.F.	P.L.E. ACRES OR S.F.	H.E. ACRES OR S.F.
8	DANE COUNTY PARENT COUNCIL, INC.	TLE	-----	-----	-----	0.072	-----	-----
11	FRANCHISE REALTY INTERSTATE CORPORATION	TLE	-----	-----	-----	0.217	-----	-----
12	FNB PROPERTIES LLC	FEE,TLE	0.040	-----	0.040	0.074	-----	-----
13	AMERCO REAL ESTATE COMPANY	FEE,HE,PLE,TLE	1.782	-----	1.782	0.782	0.075	0.158
14	HARRIS, N.A.	HE,TLE	-----	-----	-----	0.204	-----	0.118
16	JOHN A. MANGOLD, INC.	FEE,TLE	0.053	-----	0.053	0.009	-----	-----
17	BLACK & GREEN MADISON, LLC	FEE,TLE	0.030	-----	0.030	0.109	-----	-----
18	FSGB, L.L.C.	FEE,PLE,TLE	0.073	-----	0.073	0.074	0.030	-----
19	CAPITOL ONE REAL ESTATE, LLC	TLE	-----	-----	-----	0.045	-----	-----
21	JAMES H. & PATRICIA A. ROBERTS	TLE	-----	-----	-----	0.046	-----	-----
22	QLD WORLD PROPERTIES, LLC	HE,TLE	-----	-----	-----	0.029	-----	0.017
23	S P S SELF SERVICE, LLC; SUCHINDER P. SINGH; AND SUNDEEP SINGH	TLE	-----	-----	-----	0.050	-----	-----
24	HOME DEPOT U.S.A., INC.	TLE	-----	-----	-----	0.046	-----	-----
71	VERONA ROAD BP MART, LLC	TLE	-----	-----	-----	0.001	-----	-----
78	UNKNOWN OWNER	FEE,TLE	0.005	-----	0.005	0.039	-----	-----

UTILITY SCHEDULE & INTERESTS REQUIRED

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
102	MADISON GAS & ELECTRIC COMPANY - ELECTRIC	RELEASE OF RIGHTS
106	AT&T WISCONSIN - COMMUNICATION	RELEASE OF RIGHTS
113	CITY OF MADISON - SEWER	RELEASE OF RIGHTS
114	MADISON METROPOLITAN SEWERAGE DISTRICT	RELEASE OF RIGHTS
117	MADISON GAS & ELECTRIC COMPANY - GAS	RELEASE OF RIGHTS
118	CITY OF MADISON - WATER	RELEASE OF RIGHTS
121	CENTURYTEL - COMMUNICATION	RELEASE OF RIGHTS

SCALE, FEET: 0 — 100 — 200

FOUND ½" SQUARE BAR IN WATER BOX T=469,825.760 X=802,617.291

SEE DETAIL 1 ON 1206-07-26-4.02 SHEET 2 OF 2

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1206-07-26-4.02
SHEET 1 OF 2
AMENDMENT NO:

T.L.E. STATION & OFFSET TABLE		
Point Number	Station	Offset
T200	977+55.00 VR	175.41'
T201	977+56.00 VR	196.00'
T202	978+11.00 VR	352.00'
T204	978+87.24 VR	344.97'
T205	979+56.02 VR	329.00'
T206	979+60.00 VR	323.00'
T207	979+59.00 VR	282.00'
T208	980+36.46 VR	276.00'
T209	980+83.87 VR	236.00'
T210	982+27.00 VR	250.00'
T211	982+27.00 VR	246.00'
T212	984+03.00 VR	126.44'
T213	987+56.21 VR	452.05'
T214	988+55.63 VR	291.81'
T215	989+23.00 VR	283.00'
T216	985+35.00 VR	270.00'
T218	988+85.00 VR	325.00'
T219	987+43.00 VR	371.00'
T220	987+45.44 VR	432.00'
T222	988+20.33 VR	450.00'
T223	988+25.41 VR	430.00'
T224	988+26.00 VR	363.00'
T227	989+30.00 VR	307.00'
T229	990+07.64 VR	255.00'
T230	990+27.00 VR	262.00'
T231	992+73.00 VR	226.00'
T232	990+65.02 VR	212.83'
T233	990+50.63 VR	194.00'
T234	992+42.00 VR	180.00'
T235	992+97.00 VR	172.00'
T236	992+58.00 VR	174.00'
T237	992+84.49 VR	215.00'
T238	993+47.42 VR	230.00'
T239	993+78.00 VR	886.00'
T240	991+08.00 VR	360.31'
T241	89+23.56 WN	38.04'
T242	90+25.87 WN	43.15'
T243	90+78.96 WN	42.09'
T244	90+84.95 WN	36.41'
T245	90+25.43 WN	23.22'
T247	96+12.78 SU	95.32'
T248	97+27.95 SU	59.17'
T249	96+45.88 SU	78.25'
T250	95+05.81 WN	51.54'
T251	984+45.00 VR	137.23'
T252	986+09.00 VR	165.00'
T253	986+25.00 VR	165.00'
T254	986+25.00 VR	136.36'
T255	975+88.06 VR	470.17'
T260	95+36.23 WN	48.94'
T261	94+81.21 WN	58.33'
T262	944+39.05 WN	55.17'
T263	93+46.33 WN	76.09'
T264	93+47.57 WN	79.87'
T265	93+46.35 WN	54.75'
T266	978+74.82 SU	327.29'
T267	978+66.68 VR	326.57'
T268	982+54.74 VR	273.84'
T270	993+28.54 VR	184.82'
T271	994+41.71 VR	280.42'
T273	93+96.30 WN	76.72'
T276	988+84.00 VR	450.31'
T277	988+64.29 VR	278.00'
T278	92+83.91 WN	56.45'
T279	989+25.06 VR	467.67'
T280	982+40.00 VR	270.00'
T282	982+76.83 VR	279.59'
T285	961+8.32 WN	107.47'
T286	96+12.84 WN	62.50'
T287	95+64.65 WN	55.31'
T288	97+10.23 WN	120.85'
T289	97+14.70 WN	86.03'
T290	983+56.73 VR	172.74'

P.L.E. STATION & OFFSET TABLE		
Point Number	Station	Offset
P200	979+55.24 VR	449.59'
P201	981+06.52 VR	287.27'
P209	981+22.15 VR	238.88'
P203	981+22.29 VR	139.59'
P227	989+30.00 VR	301.00'

247-248	248-250	252-253	253-255
L = 126.06'	L = 20.12'	L = 67.60'	L = 38.88' (38.86')
R = 230.00' (230.00')	R = 15.00' (15.00')	R = 170.00'	R = 170.00' (170.00')
L.C. = 124.49' (124.45')	L.C. = 18.55' (18.58')	L.C. = 67.16'	L.C. = 38.79' (38.76')
L.C.B. = N 74°34'24" W (N 74°56'41" W)	L.C.B. = S 83°28'09" W (S 82°28'43" W)	L.C.B. = S 33°06'17" W	L.C.B. = S 15°01'16" W (S 14°41'41" W)
269-270	**273-275**	**275-277**	
L = 86.88' (87.01')	L = 101.20'	L = 38.61'	
R = 87.00' (87.00')	R = 467.53'	R = 260.00'	
L.C. = 83.31' (83.43')	L.C. = 101.00'	L.C. = 38.57'	
L.C.B. = N 16°44'28" W (N 17°08'27" W)	L.C.B. = S 57°49'42" W	L.C.B. = S 65°57'27" W	
287-288	**292-293**	**2024-2022**	**2026-2024**
L = 23.53'	L = 23.07'	L = 88.96'	L = 42.22'
R = 15.00' (15.00')	R = 15.00' (15.00')	R = 46.50'	R = 158.50'
L.C. = 21.19' (21.21')	L.C. = 20.86' (20.86')	L.C. = 76.00'	L.C. = 42.09'
L.C.B. = S 00°28'47" E (S 0°30'40" E)	L.C.B. = N 89°36'35" W (N 89°54'22" W)	L.C.B. = N 75°43'29" E	L.C.B. = N 13°17'14" E

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 18/151 (VERONA ROAD) ESTABLISHED FROM PREVIOUS PROJECT (201-05-21, T 017-2(50), AND F 017-2(15) ALONG WITH FOUND IRONS RELATING TO ABUTTING SURVEYS, CERTIFIED SURVEY MAPS AND SUBDIVISION PLATS OF RECORD.
EXISTING HIGHWAY RIGHT-OF-WAY FOR THE VERONA ROAD SERVICE ROAD AND SERVICE LANE IS EXISTING PERMANENT LIMITED HIGHWAY EASEMENT PER NOTES ON CSM 10220.

EXISTING ACCESS CONTROL ALONG USH 18/151 (VERONA ROAD) ESTABLISHED FROM PREVIOUS PROJECT CA 017-2(2). NOTE - ACCESS TO MOST PARCELS IS BY FRONTAGE OR LOCAL ROAD ONLY AS SHOWN BY ACCESS SYMBOLOGY OUTSIDE OF THE EXISTING RIGHT OF WAY LINE.

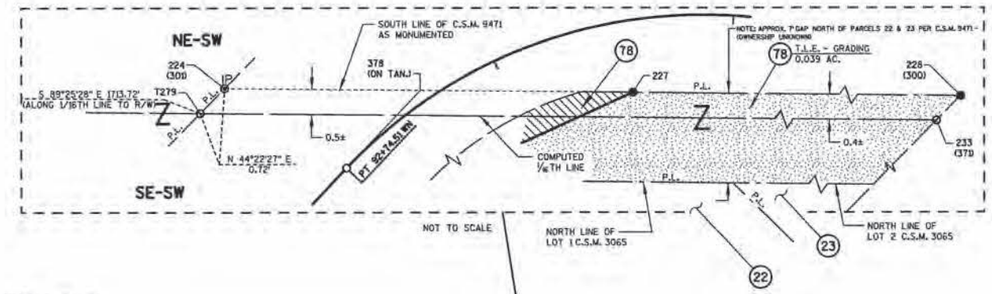
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

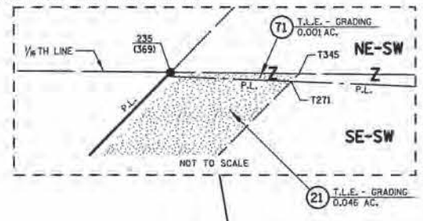
FOUND CITY OF MADISON BRASS CAP W/ "X" AT CENTER Y=467,182.637 X=802,364.561

FOUND CITY OF MADISON BRASS CAP W/ HOLE AT CENTER Y=467,179.953 X=802,627.491

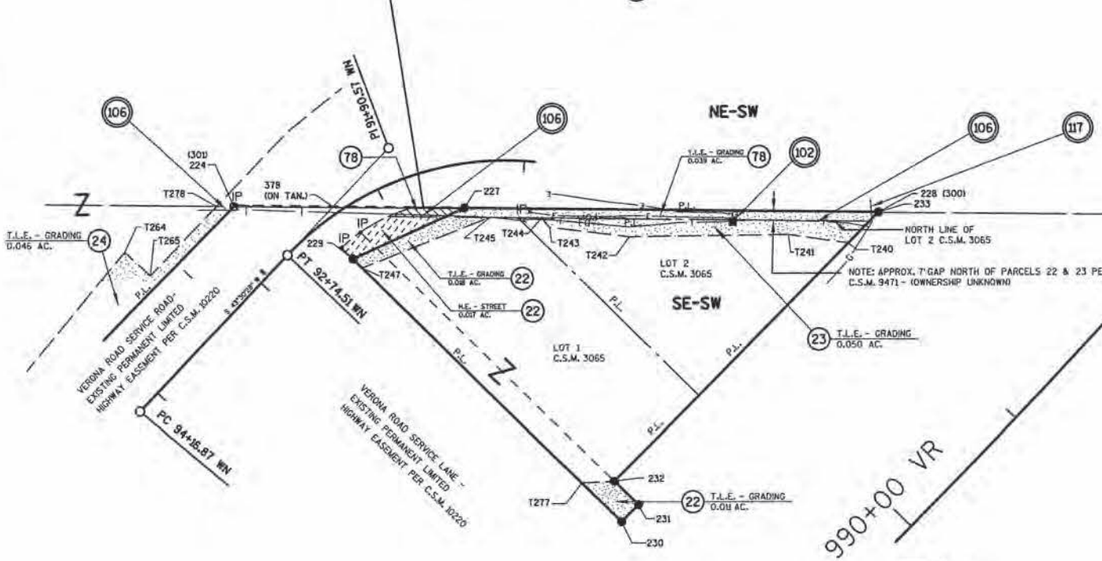
TRANSPORTATION PROJECT PLAT NO: 1206-07-26 - 4.02

RELOCATION ORDER USH 18/151 DANE COUNTY MOUNT HOREB - MADISON ROAD
(RAYMOND ROAD - SEMINOLE HIGHWAY)

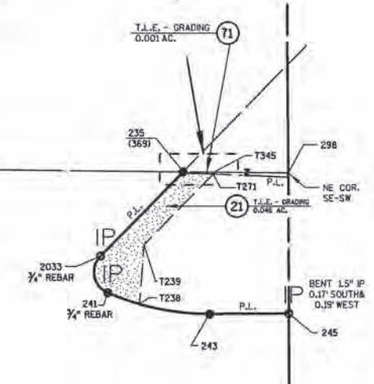


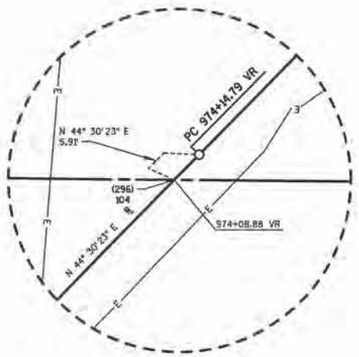


P.I. STA. 91+90.57 WN
Y = 468,550.872
K = 801,783.228
Δ = 51° 58' 48" (LT)
D = 28° 38' 52"
T = 97.50'
L = 181.44'
R = 200.00'
P.C. = 90+93.07 WN
P.T. = 92+74.51 WN
D.B. = S 84°27'40" E
D.A. = S 43°30'28" W

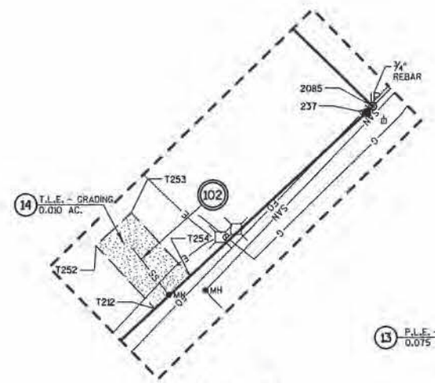


DETAIL 1
NOT TO SCALE

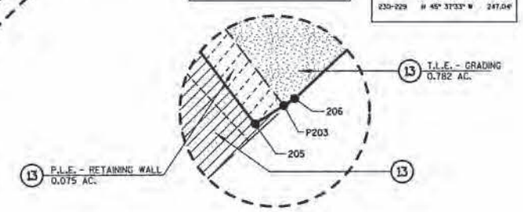




DETAIL 2
NOT TO SCALE



DETAIL 3
NOT TO SCALE



DETAIL 4
NOT TO SCALE

R/W POINT STATION & OFFSET TABLE

205	981+03.40 VR	141.51'
206	981+85.71 WN	138.94'
224	92+75.03 WN	48.00'
227	91+44.65 WN	29.00'
228	991+37.26 VR	159.79'
229	96+04.27 SLI	96.19'
233	991+36.84 VR	159.76'
234	992+84.09 VR	2.04'
235	994+30.15 VR	174.24'
237	98+49.20 SLI	63.50'
241	993+35.31 VR	183.03'
243	993+72.29 VR	249.01'
245	994+05.51 VR	288.68'
296	974+08.88 VR	0.00'
378	92+31.10 WN	4.85'
2033	993+53.95 VR	159.33'
2085	98+49.25 SLI	60.50'
230	98+55.30 SLI	93.49'
231	958+81.46 VR	140.87'
232	958+45.8 VR	160.87'

R/W COURSE TABLE

COURSE	BEARING	LENGTH
203-205	S 37° 15' 09" E	99.12'
205-206	N 57° 16' 39" E	57.57'
206-208	N 47° 23' 55" E	139.59'
223-224	N 44° 22' 27" E	124.23'
	(N 44° 00' 20" E)	(124.12')
224-378	S 89° 23' 39" E	65.55'
378-227	S 89° 23' 39" E	87.10'
227-228	S 89° 23' 39" E	274.60'
228-233	S 44° 32' 52" W	0.42'
233-234	S 89° 25' 28" E	257.58'
234-235	S 89° 25' 28" E	227.06'
235-238	S 89° 25' 28" E	69.72'
235-2033	S 44° 32' 52" W	78.34'
2033-241	SEE CURVE NOTE	
241-243	SEE CURVE NOTE	
243-245	N 89° 47' 13" E	52.50'
	(N 89° 21' 30" E)	(52.50')
245-246	S 0° 13' 05" E	60.01'
229-227	N 65° 34' 46" E	61.30'
229-230	S 45° 37' 33" E	247.04'
232-233	N 44° 32' 52" E	249.48'
2033-T232	N 47° 27' 00" E	186.39'
T232-T254	N 47° 27' 00" E	16.00'
T254-237	N 47° 27' 00" E	73.52'
237-2085	N 44° 32' 52" E	3.00'
2085-230	N 44° 32' 52" E	104.00'
P203-205	S 37° 16' 39" W	5.03'
P205-P203	S 37° 15' 09" E	99.82'
206-P203	S 37° 16' 39" W	3.48'
P206-207	S 79° 57' 26" E	9.00'
231-232	S 44° 32' 52" W	249.48'
232-231	S 45° 37' 33" E	20.00'
231-230	S 44° 32' 52" W	16.00'
	(S 44° 32' 29" W)	(16.00')
230-229	N 45° 37' 33" W	247.04'

T.L.E. STATION & OFFSET TABLE

Point Number	Station:	Offset:
T212	986+09.00 VR	136.44'
T213	985+35.00 VR	270.80'
T238	993+47.42 VR	230.00'
T239	993+78.00 VR	186.00'
T240	993+06.00 VR	160.37'
T241	89+23.98 WN	38.04'
T242	90+25.87 WN	43.35'
T243	90+76.96 WN	42.05'
T244	92+84.98 WN	36.41'
T245	91+25.41 WN	37.22'
T247	96+12.78 SLI	98.35'
T252	986+09.00 VR	85.00'
T253	986+25.00 VR	85.00'
T254	986+25.00 VR	136.36'
T264	93+47.57 WN	73.82'
T265	93+46.95 WN	36.75'
T271	994+41.71 VR	190.43'
T277	988+64.39 VR	176.00'
T278	92+83.69 WN	56.45'
T279	988+25.06 VR	467.67'
T345	994+43.47 VR	190.56'

241-243
L. = 69.62'
R. = 170.00' (170.00')
L.C. = 69.13 (68.57')
L.C.B. = S 78°15'03" E
(S 79° 00' 26" E)

2033-241
L. = 29.17'
R. = 15.00'
L.C. = 24.78' (24.81')
L.C.B. = S 11°17'04" E
(S 11°34'56" E)

P.I.E. STATION & OFFSET TABLE

Point Number	Station:	Offset:
P203	981+12.69 VR	139.55'

TPP NUMBER 1206-07-26 -4.02
SHEET 2 OF 2

FILE NAME : S:\MAD\1000--1099\1089\269\Micros\TPP Sheets\040102-2_rp.dgn
APPRAISAL PLAT DATE : MAY 31, 2012
PLOT DATE : 5/31/2012
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$

4.02

STRAND ASSOCIATES, INC. ®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, TERRANCE L. GENSKE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1206-07-26-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TERRANCE L. GENSKE S-1443 WAUNAKEE LAND SURVEYOR

(SIGNATURE) Terrance L. Genske DATE 5/31/2012
(PRINTED NAME) TERRANCE L. GENSKE
(REGISTRATION NUMBER) S - 1443

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) JAMES R. KUEHN

10-FOOT UTILITY EASEMENTS
C.S.M. 9471 DOC. 3163816 - PARCEL 24, 26 & 32
RECIPROCAL CROSS-EASEMENT AGREEMENT
C.S.M. 9471 DOC. 3163816; AND DOC. 3180831 - PARCELS 24, 26 & 32
INGRESS / EGRESS EASEMENT
C.S.M. 291 DOC. 1155008 V. 269 P. 66 DOC. 872909, & V. 422 P. 492 DOC. 1124815 - PARCELS 27, 28 & 29
INGRESS/EGRESS EASEMENT
V. 269 P. 476 DOC. 874284 - PARCEL 28
INGRESS/EGRESS EASEMENT
V. 256 P. 141 DOC. 850682 - PARCEL 29
6-FOOT PIPING/DRAINAGE EASEMENT
V. 12893 P. 945 DOC. 2143531 - PARCEL 28
15-FOOT DRIVEWAY EASEMENT
V. 269 P. 66 DOC. 872909 - PARCEL 29
ACCESS AND OTHER EASEMENT AGREEMENTS
DOC. NO. 2143531 - PARCELS 27, 28 & 29
ACCESS EASEMENT
DOC. 1116702 - PARCELS 36 & 41
20-FOOT EASEMENT FOR PRIVATE ROADWAY PURPOSES
V. 3605 P. 6 DOC. 1741079 - PARCEL 33, 34
SEWER LATERAL EASEMENT - PRIVATE
V. 9365 P. 35 DOC. 1989826 - PARCEL 38

CITY OF MADISON - WATER
20-FOOT PUBLIC WATER MAIN EASEMENTS
C.S.M. 9471 DOC. 3163816 - PARCEL 24, 32

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

NOTE: "WISDOT LANDS" PREVIOUSLY ACQUIRED BY ADVANCED ACQUISITION PROJECT ID 1206-07-28

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR WEST BELTLINE FRONTAGE ROAD WAS DEDICATED ON C.S.M. 9471.

EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 18/151 (VERONA ROAD) ESTABLISHED FROM PREVIOUS PROJECT 1201-05-21, T 017-2(50), AND F 017-2(51) ALONG WITH FOUND IRONS RELATING TO ABUTTING SURVEYS, CERTIFIED SURVEY MAPS AND SUBDIVISION PLATS OF RECORD.

EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 12/14 (WEST BELTLINE HIGHWAY) ESTABLISHED FROM PREVIOUS PROJECT 1204-02-21, T 017-2(50), AND F 017-2(51) ALONG WITH FOUND IRONS RELATING TO ABUTTING SURVEYS, CERTIFIED SURVEY MAPS AND SUBDIVISION PLATS OF RECORD.

EXISTING ACCESS CONTROL ALONG USH 18/151 (VERONA ROAD) ESTABLISHED FROM PREVIOUS PROJECT CA 017-2(2), NOTE - ACCESS TO MOST PARCELS IS BY FRONTAGE OR LOCAL ROAD ONLY AS SHOWN BY ACCESS SYMBOLOGY OUTSIDE OF THE EXISTING RIGHT OF WAY LINE.

EXISTING ACCESS CONTROL ALONG USH 12/14 & 18/151 (WEST BELTLINE HIGHWAY) ESTABLISHED FROM PREVIOUS PROJECT CA 04-2(1).

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO D.O.T.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW	R/W ACRES OR S.F. REQUIRED EXISTING	R/W ACRES OR S.F. REQUIRED TOTAL	T.L.E. & (P.L.E.) ACRES OR S.F.	H.E. ACRES OR S.F.
24	HOME DEPOT U.S.A., INC.	FEE,TLE	0.020	----	0.020	0.244	----
25	----	----	----	----	----	----	----
26	JB'S REAL ESTATE, LLC	TLE	----	----	----	0.091	----
27	ROGER S. & BARBARA A. FINKE	FEE,TLE	0.062	----	0.062	0.103	----
28	FEILER'S ENTERPRISES, INC.	FEE,TLE	0.126	----	0.126	0.123	----
29	UNIVERSITY BOOK STORE, A MASSACHUSETTS COMMON LAW TRUST>	FEE,TLE	0.111	----	0.111	0.051	----
31	ADAMS OUTDOOR ADVERTISING LIMITED PARTNERSHIP	FEE,TLE	0.121	----	0.121	0.083	----
32	RLC GROUP, LLC	FEE,TLE	0.221	----	0.221	0.365	----
33	BRUNSELL BROTHERS, LTD., A WISCONSIN CORPORATION	FEE,TLE	0.011	----	0.011	0.062	----
34	BAKKE INVESTMENTS LIMITED PARTNERSHIP - ½ INTEREST & SCHWARTZ INVESTMENTS LIMITED PARTNERSHIP - ½ INTEREST	TLE	----	----	----	0.047	----
36	FISHER FAMILY COMPANY, LLC,A WISCONSIN LIMITED LIABILITY COMPANY	FEE,TLE	0.003	----	0.003	0.066	----
37	HAMMERSLEY ROAD CONDOMINIUM OWNERS ASSOCIATION, INC.	FEE,TLE	0.304	----	0.304	0.192	----
38	ASSOCIATION FOR THE REVIVAL OF THE SUNNAN, INC.	FEE,TLE	0.023	----	0.023	0.077	----
41	MIDVALE CORNER, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	A.R., TLE	----	----	----	0.001	----
71	VERONA ROAD BP MART, LLC	FEE,TLE	0.006	----	0.006	0.026	----

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
102	MADISON GAS & ELECTRIC COMPANY - ELECTRIC	RELEASE OF RIGHTS
106	AT&T WISCONSIN - COMMUNICATION	RELEASE OF RIGHTS
113	CITY OF MADISON - SEWER	RELEASE OF RIGHTS
114	MADISON METROPOLITAN SEWERAGE DISTRICT	RELEASE OF RIGHTS
117	MADISON GAS & ELECTRIC - GAS	RELEASE OF RIGHTS
118	CITY OF MADISON - WATER	RELEASE OF RIGHTS
121	CENTURYTEL - COMMUNICATION	RELEASE OF RIGHTS
122	AMERICAN TRANSMISSION COMPANY, LLC	RELEASE OF RIGHTS

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 4866377.

TRANSPORTATION PROJECT PLAT NO: 1206-07-26 - 4.03

THAT PART OF LOT B OF CERTIFIED SURVEY MAP NO. 11, ALSO THAT PART OF LOTS 1, 2, AND 3 OF CERTIFIED SURVEY MAP NO. 9471, ALSO THAT PART OF LOTS 1 AND 2 OF CERTIFIED SURVEY MAP NO. 219, ALSO THAT PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 3926, ALSO THAT PART OF LOT 1, BLOCK 2, OF THE PLAT OF SUMMIT PARK, ALSO THAT PART OF HAMMERSLEY ROAD CONDOMINIUM; ALSO THAT PART OF OUTLOT B OF BLOCK 19 OF THIRD ADDITION TO CRAWFORD HEIGHTS, ALSO THAT PART OF THE NE¼ OF THE SW 1/4, THE NW¼ OF THE SW¼ AND THE SE¼ OF THE NW¼OF OF SECTION 32, ALL IN T 7 N, R 9 E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER USH 18/151 DANE COUNTY MOUNT HOREB - MADISON ROAD (RAYMOND ROAD - SEMINOLE HIGHWAY)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

R/W POINT	STATION & OFFSET	TABLE	
227	91+44.65 WN	29.00'	
300	991+37.26 VR	159.75'	
301	92+75.03 WN	48.09'	
302	92+55.30 WN	48.79'	
303	91+20.18 WN	42.21'	
304	992+80.81 VR	154.77'	
305	1127+22.60	102.65'	
309	89+44.11 WN	31.94'	
310	88+73.17 WN	28.50'	
311	992+61.74 VR	158.39'	
314	993+05.76 VR	153.56'	
317	995+12.35 VR	161.87'	
318	995+26.55 VR	161.95'	
319	1140+73.82	219.82'	
321	1137+14.72	152.94'	
323	1135+91.76	153.79'	
325	1135+39.81	152.27'	
326	1133+45.00	150.25'	
328	1133+05.00	147.45'	
329	1132+12.38	145.09'	
331	1128+17.89	124.95'	
332	1127+81.15	125.01'	
336	1127+33.76	134.23'	
337	1126+86.87	2.81'	
338	1126+50.95	95.68'	
339	1127+00.92	94.30'	
340	1127+50.70	95.33'	
342	1128+98.02	96.36'	
343	1128+36.72	201.90'	
344	1129+21.19	248.42'	
345	1129+49.05	195.61'	
346	1130+36.44	248.81'	
347	1130+95.96	144.18'	
348	1139+81.13	223.14'	
349	1139+81.96	248.13'	
350	1139+03.38	250.73'	
351	1139+01.08	163.62'	
356	1132+20.23	139.92'	
357	1132+46.58	95.73'	
360	1137+15.35	122.35'	
361	1138+11.72	127.22'	
362	1140+66.43	167.38'	
363	1141+82.48	0.00'	
364	937+22.76 VR	0.08'	
369	994+30.15 VR	174.24'	
370	992+84.09 VR	2.04'	
371	991+36.84 VR	159.76'	
372	1132+63.00	96.52'	
373	1132+63.00	98.52'	
377	1129+04.73	0.05'	
378	92+31.10 WN	4.81'	
379	1134+20.00	106.36'	
380	1131+58.09	141.88'	

R/W POINT STATION & OFFSET TABLE		
3001	994+90.71 VR	180.10'
3003	995+38.64 VR	183.54'
3005	994+21.06 VR	146.74'
3006	994+23.60 VR	149.65'
3007	1127+38.27	131.61'
3008	995+12.40 VR	170.41'

R/W COURSE TABLE		
COURSE	BEARING	LENGTH
300-227	N 89° 23' 39" W	274.80'
227-378	N 89° 23' 39" W	87.10'
378-301	N 89° 23' 39" W	65.55'
301-302	N 44° 22' 27" E	24.38'
	(N 44° 00' 20" E)	(24.38')
302-303	SEE CURVE NOTE	
303-309	S 83° 19' 23" E	178.83'
	(S 83° 44' 49" E)	(178.93')
309-310	S 89° 23' 52" E	66.24'
310-311	SEE CURVE NOTE	
311-304	N 53° 00' 28" E	18.97'
304-3005	N 44° 39' 57" E	137.27'
3005-317	N 33° 20' 15" E	101.88'
317-318	N 44° 15' 38" E	16.51'
318-319	SEE CURVE NOTE	
319-348	N 57° 39' 37" W	91.64'
348-349	S 32° 21' 53" W	25.00'
	(S 30° 33' 00" W)	(25.00')
349-350	N 57° 53' 08" W	77.00'
	(N 59° 42' 00" W)	(77.00')
350-351	N 32° 21' 53" E	86.93'
351-321	N 53° 12' 34" W	184.23'
321-323	N 57° 44' 05" W	121.39'
323-325	N 56° 03' 35" W	51.32'
325-326	N 57° 44' 05" W	192.37'
326-328	N 54° 50' 24" W	39.60'
328-329	N 57° 44' 05" W	91.53'
329-331	N 57° 15' 38" W	393.20'
331-332	SEE CURVE NOTE	
332-3007	SEE CURVE NOTE	
3007-336	N 89° 23' 35" W	5.25'
336-305	N 10° 40' 16" E	33.52'
305-337	N 10° 40' 16" E	106.10'
337-338	N 10° 40' 16" E	104.76'
338-339	S 57° 49' 41" E	49.56'
339-340	S 60° 51' 26" E	49.37'
340-342	S 60° 34' 15" E	146.05'
342-343	N 0° 12' 18" W	121.64'
343-344	S 89° 47' 28" E	94.95'
	(S 89° 59' 00" E)	(95.00')
344-345	S 0° 19' 02" E	56.15'
345-346	S 89° 24' 40" E	101.71'
	(S 89° 48' 16" E)	(101.53')
346-347	S 0° 09' 55" E	120.86'
	(S 0° 46' 15" E)	(120.94')
347-380	S 57° 45' 00" E	62.90'
380-356	S 57° 45' 00" E	62.90'
356-357	S 0° 23' 17" E	51.58'
357-372	S 61° 59' 09" E	16.57'
372-373	N 30° 48' 29" E	2.00'
373-379	S 61° 38' 59" E	158.53'
379-360	S 60° 48' 44" E	298.51'
360-361	S 59° 39' 59" E	97.50'
361-362	S 64° 50' 40" E	260.59'
362-363	S 0° 13' 15" E	203.68'
363-364	S 0° 13' 15" E	342.76'
364-3003	S 0° 13' 15" E	250.13'
3003-3001	S 45° 18' 52" W	39.36'
3001-369	S 47° 34' 26" W	53.69'
369-370	N 89° 25' 28" W	227.06'
370-371	N 89° 25' 28" W	217.58'
371-300	N 44° 32' 52" E	0.41'
298-369	N 89° 25' 28" W	69.72'
KL6727-298	N 00° 13' 15" W	1322.91'
3003-298	S 00° 13' 15" E	62.58'
355-362	S 00° 13' 15" E	430.76'
362-363	S 00° 13' 15" E	203.68'
363-364	S 00° 13' 15" E	342.76'
364-365	S 00° 13' 15" E	252.10'

R/W COURSE TABLE		
COURSE	BEARING	LENGTH
KL6705-355	S 00° 13' 15" E	33.00'
355-362	S 00° 13' 15" E	430.76'
KL6705-380	N 89° 23' 55" W	787.66'
380-377	N 89° 23' 55" W	291.65'
337-377	S 60° 44' 44" E	217.91'
337-338	N 10° 40' 16" E	104.76'
305-337	N 10° 40' 16" E	106.10'
336-305	N 10° 40' 16" E	33.52'
KL6707-305	S 89° 23' 35" E	1368.70'

T.L.E. STATION & OFFSET TABLE		
Point Number	Station	Offset
T300	92+28.95 WN	62.92'
T301	91+95.17 WN	70.90'
T302	91+60.17 WN	73.44'
T303	89+27.95 WN	45.96'
T304	992+38.00 VR	196.00'
T305	993+45.00 VR	166.00'
T306	995+17.00 VR	178.00'
T307	995+77.00 VR	204.00'
T308	996+00.00 VR	243.00'
T309	1140+50.00	245.00'
T310	1139+60.00	220.00'
T311	1139+00.00	192.00'
T312	1138+80.00	171.00'
T313	1137+43.00	175.00'
T314	1137+42.00	206.00'
T315	1135+76.00	169.00'
T316	1133+60.00	169.00'
T317	1133+20.00	186.00'
T318	1132+72.00	182.00'
T319	1132+72.00	163.00'
T320	1131+14.00	156.00'
T321	1131+14.00	176.00'
T322	1129+71.00	169.00'
T323	1129+62.00	148.00'
T325	1126+46.73	105.00'
T326	1126+34.00	107.00'
T327	1128+77.48	132.00'
T328	1132+37.07	111.63'
T329	1137+02.06	133.00'
T330	1132+22.78	135.63'
T331	1137+65.47	145.00'
T332	1136+94.00	146.00'
T333	1140+61.12	172.95'
T334	995+10.00 VR	193.00'
T335	992+83.56 VR	183.47'
T336	995+12.44 VR	177.39'
T337	996+26.06 VR	271.62'
T338	1135+00.32	303.24'
T339	1137+47.52	174.89'
T340	1137+42.41	193.23'
T341	1129+83.06	169.66'
T342	1128+08.16	139.01'

T.L.E. STATION & OFFSET TABLE		
Point Number	Station	Offset
T343	1134+97.78	307.51'
T344	995+10.00 VR	206.65'
T345	994+43.47 VR	190.56'
T346	1139+81.23	225.95'
T347	1139+01.85	192.87'
T348	1127+43.00	150.00'
T349	1126+87.42	171.00'
T350	1126+83.98	153.13'
T368	1140+47.86	192.19'
T369	1140+49.09	192.39'

SIGN NUMBER	SIGN OWNER
31-1	ADAMS SIGN CO.
31-2	ADAMS SIGN CO.

NOTE: STA. 1128+81.96, 12.6' RIGHT = STA. 375+15.49 (BACK) PROJECT ID T04-2(34)

302-303 L. 168.62' (168.70') R. = 185.00' (185.00') L.C. = 162.84' (162.92') L.C.B.= N 70°33'08" E (N 70° 01'45" E)
310-311 L. = 102.60' R. = 271.50' L.C. = 101.99' L.C.B.= N 70°39'51" E
318-319 L. = 248.10' R. = 257.50' L.C. = 238.62' L.C.B. = N 8°25'23" E
332-3007 L. = 44.06' R. = 139.62' L.C. = 43.87' L.C.B. = N 68°29'21" W
331-332 L. = 37.18' R. = 8,866.83' L.C. = 37.15' L.C.B.= N 60°08'07" W
339-340 L. = 49.37' R. = 11,067.00' L.C. = 49.37' L.C.B.= S 60°51'26" E

P.I. STA. 87+92.96 WN
Y = 468,530.029
X = 802,201.485
Δ = 52° 54' 47" (RT)
D = 19° 09' 55"
T = 149.29'
L = 277.05'
R = 300.00'
P.C. = 86+43.67 WN
P.T. = 89+20.72 WN

P.I. STA. 89+97.08 WN
Y = 468,532.280
X = 801,975.847
Δ = 4° 58' 03" (RT)
D = 11° 27' 33"
T = 21.69'
L = 43.35'
R = 500.00'
P.C. = 89+75.40 WN
P.T. = 90+18.74 WN

P.I. STA. 91+90.57 WN
Y = 468,550.872
X = 801,783.228
Δ = 51° 58' 48" (LT)
D = 28° 38' 52"
T = 97.50'
L = 181.44'
R = 200.00'
P.C. = 90+93.07 WN
P.T. = 92+74.51 WN

P.I. STA. 990+69.36 VR
Y = 468,341.862
X = 802,185.728
Δ = 6°36'22" (LT)
D = 00°52'28"
T = 379.23'
L = 757.61'
R = 6,571.00'
PC = 986+90.13 VR
PT = 994+47.74 VR

AT&T WISCONSIN - COMMUNICATION
10-FOOT EASEMENT
V. 41 P. 47 DOC. 1218407 - PARCEL 24
EASEMENT
V. 29 P. 399 DOC. 3148404 - PARCEL 33

CITY OF MADISON - PUBLIC WORKS / STREETS
PUBLIC WALK AND TERRACE EASEMENT
V. 71 P. 394 DOC. 1229088 - PARCEL 32
PUBLIC SIDEWALK EASEMENT
V. 8662 P. 22 DOC. 1358662 - PARCEL 36

MADISON METROPOLITAN SEWERAGE DISTRICT
INTERCEPTOR/MAIN SEWER EASEMENT
V. 282 P. 383 DOC. 901480 - PARCEL 33

MADISON GAS AND ELECTRIC COMPANY - ELECTRIC
RIGHT-OF-WAY GRANT
V. 11088 P. 19 DOC. 2066340 - PARCEL 33
10-FOOT UNDERGROUND ELECTRIC EASEMENT
DOC. 2163812 - PARCEL 28
6-FOOT UNDERGROUND ELECTRIC EASEMENT
DOC. 3245029 - PARCEL 28

MADISON GAS AND ELECTRIC COMPANY - GAS
10-FOOT GAS MAIN EASEMENT
DOC. 2278173 - PARCEL 28
DOC. 3245029 - PARCEL 28

AMERICAN TRANSMISSION COMPANY, LLC
ELECTRIC TRANSMISSION LINE EASEMENT
DOC. 4829634 - PARCEL 28
DOC. 4849340 - PARCEL 29

DOC. 4859804 - PARCEL 32
DOC. 4832609 - PARCEL 33
DOC. 4863467 - PARCEL 34

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1206-07-26-4.03
SHEET 1 OF 2
AMENDMENT NO:

SCALE, FEET
0 100 200

FOUND ½" SQUARE BAR IN WATER BOX
Y=469,825.760
X=802,617.291
KL6705

FOUND ¾" REBAR IN WATER BOX
Y=469,653.912
X=799,959.656
KL6707

SW-NW
NW-SW
NE-SW
SE-NW
SW-SE
NW-SE

CITY OF MADISON
HAMMERSLEY RD
USH 12 & 14 (W. BELTLINE HWY)
WEST BELTLINE FRONTAGE ROAD
USH 18/151 (VERONA ROAD)
STARLIGHT DRIVE
PONTIAC TRAIL
HERITAGE CIRCLE
WISDOT LANDS (SEE NOTE)
HAMMERSLEY ROAD CONDOMINIUM DOC. NO. 4000609
20-FOOT PRIVATE ROADWAY EASEMENT PER CSM 3926
CITY OF MADISON - LANDS DEDICATED FOR SIDEWALK INSTALLATION PER C.S.M. 9471
SEE DETAIL 4 ON 1206-07-26-4.03 SHEET 2 OF 2
SEE DETAIL 2 ON 1206-07-26-4.03 SHEET 2 OF 2
SEE DETAIL 3 ON 1206-07-26-4.03 SHEET 2 OF 2
SEE DETAIL 1
DETAIL 3 NOT TO SCALE

LOT 1 C.S.M. NO. 9471 DOC. NO. 3163816 V. 54, P. 66-72
LOT 2 C.S.M. NO. 9471 DOC. NO. 3163816 V. 54, P. 66-72
LOT 3 C.S.M. NO. 9471 DOC. NO. 3163816 V. 54, P. 66-72
LOT 1 C.S.M. NO. 219 DOC. NO. 1155001 V. L P. 219
LOT 2 C.S.M. NO. 219 DOC. NO. 1155001 V. L P. 219
PARCEL 1 C.S.M. 104 V. L P. 104 DOC. NO. 1059114 (PART OF LOT 1, BLOCK 1, SUMMIT PARK)

T.L.E. - GRADING 0.077 AC.
T.L.E. - GRADING 0.038 AC.
T.L.E. - GRADING 0.154 AC.
T.L.E. - GRADING 0.068 AC.
T.L.E. - GRADING 0.062 AC.
T.L.E. - GRADING 0.365 AC.
T.L.E. - GRADING 0.083 AC.
T.L.E. - GRADING 0.051 AC.
T.L.E. - GRADING 0.123 AC.
T.L.E. - GRADING 0.103 AC.
T.L.E. - GRADING 0.091 AC.
T.L.E. - GRADING 0.244 AC.
T.L.E. - GRADING 0.026 AC.
T.L.E. - GRADING 0.047 AC.

PI 1126+51.55
PC 1123+66.14
PRC 1129+36.83
PI 1134+89.41
PC 994+47.74
PRC 992+82.86
PI 995+00 VR
PC 996+81.09 VR
PI 997+64.36 VR
PT 1140+41.22
90+00 WN
1125+00
1130+00
1135+00
1140+00

R/W ACRES REQUIRED: EXISTING 0.000 AC. TOTAL 0.000 AC.
R/W S.F. REQUIRED: EXISTING 0 S.F. TOTAL 0 S.F.
T.L.E. ACRES REQUIRED: 0.000 AC.
T.L.E. S.F. REQUIRED: 0 S.F.
H.E. ACRES REQUIRED: 0.000 AC.
H.E. S.F. REQUIRED: 0 S.F.

IF IS A TIE POINT- PER SURVEY NOTE
NOTE: MONUMENTED WEST LINE OF OUTLOT B BLOCK 19, THIRD ADDITION TO CRAWFORD HEIGHTS IS ABOUT 1 FOOT WEST OF ½" LINE.

P.I. STA. 1134+89.41
Y = 469,550.983
X = 802,048.146
Δ = 5°15'36" (RT)
D = 00°28'35"
T = 552.58'
L = 1,104.39'
R = 12,030.00'
PC = 1129+36.83
PT = 1140+41.22
D.B. = N 50°44'44" W
D.A. = S 55°29'08" E

P.I. STA. 1126+51.55
Y = 468,950.583
X = 801,317.034
Δ = 2°56'22" (LT)
D = 00°30'54"
T = 285.41'
L = 570.69'
R = 11,124.00'
PC = 1123+66.14
PT = 1129+36.83
D.B. = N 51° 48' 22" W
D.A. = S 60° 44' 44" E

P.I. STA. 997+64.36 VR
Y = 468,850.716
X = 802,658.963
Δ = 1°33'12" (LT)
D = 0°55'58"
T = 83.27'
L = 166.54'
R = 6,143.00'
PC = 996+81.09 VR
PT = 998+47.63 VR
D.A. = N 45°30'38" E

P.I. STA. 995+05.37 VR
Y = 468,674.205
X = 802,469.255
Δ = 6°35'45" (RT)
D = 0°54'46"
T = 57.62'
L = 115.12'
R = 1,000.00'
PC = 994+47.74 VR
PT = 995+62.86 VR
DB. = S 40° 28' 05" W

STRUCTURE B-13-651
STRUCTURE B-13-652
STRUCTURE B-13-654

TRANSPORTATION PROJECT PLAT NO: 1206-07-26 - 4.03

RELOCATION ORDER USH 18/151 DANE COUNTY MOUNT HOREB - MADISON ROAD
(RAYMOND ROAD - SEMINOLE HIGHWAY)

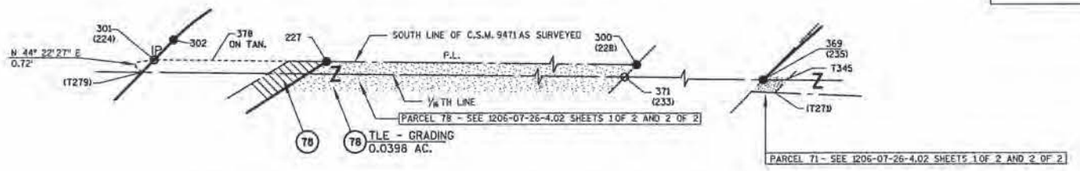
302-303
L. 168.62' (168.70')
R. = 185.00' (185.00')
L.C. = 162.84' (162.92')
L.C.B. = N 70°33'08" E
(N 70° 07' 45" E)

310-311
L. = 102.60'
R. = 271.50'
C. = 101.99'
C.B. = N 70°39'51" E

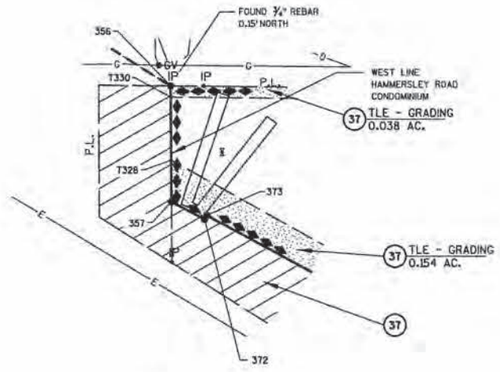
R/W POINT STATION & OFFSET TABLE			
300	991+37.26	VR	159.75'
301	92+75.03	WN	48.01'
302	92+55.30	WN	48.79'
304	992+80.81	VR	154.77'
311	992+61.74	VR	156.39'
314	993+05.76	VR	153.56'
356	1132+20.23		139.92'
357	1132+46.58		95.73'
367	994+31.37	VR	175.73'
369	994+30.15	VR	174.24'
371	991+36.84	VR	159.76'
372	1132+63.00		96.52'
373	1132+63.00		98.52'
3005	994+21.06	VR	146.74'
3006	994+23.60	VR	149.65'

R/W COURSE TABLE			
COURSE	BEARING		LENGTH
300-227	N 89° 23' 39" W		274.80'
227-378	N 89° 23' 39" W		87.10'
378-301	N 89° 23' 39" W		65.55'
301-302	N 44° 22' 27" E		24.38'
	(N 44° 00' 20" E)		(24.38')
302-303	SEE CURVE NOTE		
310-311	SEE CURVE NOTE		
311-304	N 53° 00' 28" E		18.97'
304-3005	N 44° 39' 57" E		137.27'
3005-317	N 33° 20' 15" E		101.88'
	(N 32° 51' 57" E		101.98')
347-380	S 57° 45' 00" E		62.90'
380-356	S 57° 45' 00" E		62.90'
356-357	S 0° 23' 17" E		51.58'
357-372	S 61° 59' 09" E		16.57'
372-373	N 30° 48' 29" E		2.00'
373-379	S 61° 38' 59" E		158.53'

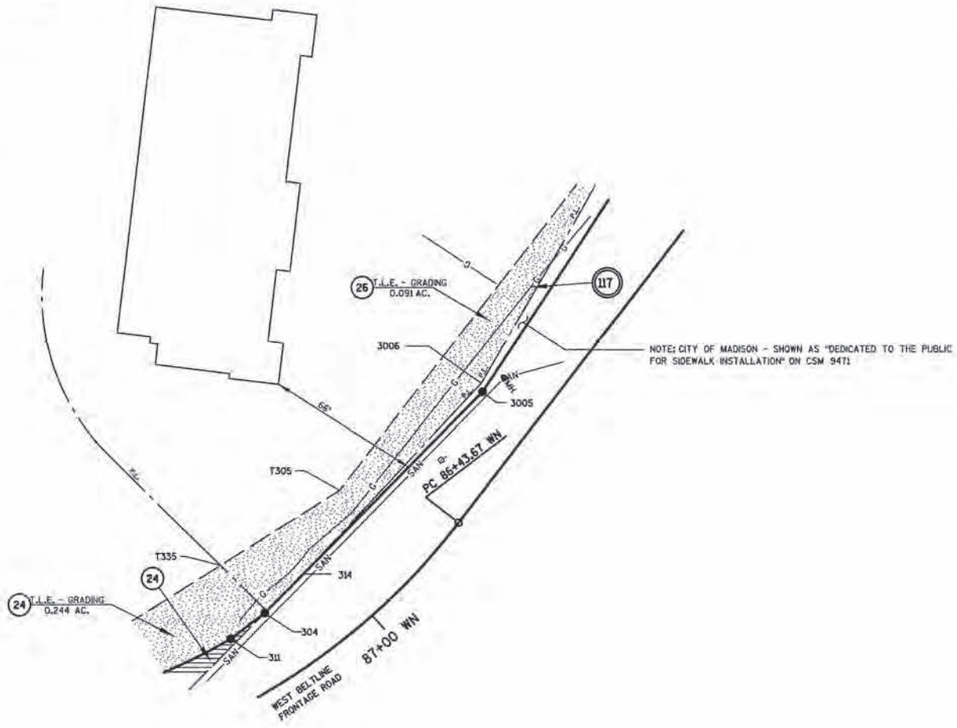
T.L.E. STATION & OFFSET TABLE			
Point Number	Station		Offset
T305	993+45.00	VR	166.00'
T328	1132+37.07		111.63'
T330	1132+22.78		135.63'
T335	992+83.56	VR	183.47'
T345	994+43.47	VR	190.56'



DETAIL 2 - MATCH BETWEEN SHEET 4.02 AND 4.03
NOT TO SCALE



DETAIL 3
NOT TO SCALE



DETAIL 4
NOT TO SCALE

TPP NUMBER 1206-07-26 -4.03
SHEET 2 OF 2

TRANSPORTATION PROJECT PLAT NO: 1206-07-26 - 4.04

THAT PART OF LOTS 1 AND 2 OF CERTIFIED SURVEY MAP NO. 2274 (BEING A PART OF OUTLOT A OF BLOCK 19 OF THE PLAT OF THIRD ADDITION TO CRAWFORD HEIGHTS). ALSO THAT PART OF OUTLOT B OF BLOCK 19 OF THE PLAT OF THIRD ADDITION TO CRAWFORD HEIGHTS. ALSO THAT PART OF LOT 5 OF BLOCK 5 OF THE PLAT OF FIRST ADDITION TO CRAWFORD HEIGHTS. ALSO THAT PART OF LOTS 39 - 48 AND CHILDREN'S PLAYGROUND OF THE PLAT OF NAKOMA PARK. ALSO THAT PART OF LOTS 19 - 22 OF BLOCK 12, AND PART OF LOTS 22 - 25 OF BLOCK 5, AND PART OF LOTS 6 - 11 OF BLOCK 10, IN THE PLAT OF MARLBOROUGH HEIGHTS. ALSO THAT PART OF LOTS 11 AND 12 OF BLOCK 9, AND A PART OF VACATED BRITTA PARKWAY AND A PART OF OUTLOT A IN THE PLAT OF SECOND ADDITION TO CRAWFORD HEIGHTS. ALSO THAT PART OF THE NW1/4 OF THE SE1/4, THE SW1/4 OF THE SE1/4, THE SE1/4 OF THE SE1/4 AND THE NE1/4 OF THE SE1/4. ALL IN SECTION 32,T 7 N, R 9 E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER USH 18/151 DANE COUNTY MOUNT HOREB - MADISON ROAD (RAYMOND ROAD - SEMINOLE HIGHWAY)
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1206-07-26-4.04
SHEET 1 OF 2
AMENDMENT NO:

SCALE, FEET
0 100 200

FOUND 1/2" SQUARE BAR IN WATER BOX
Y=469,825.760
X=802,617.291

FOUND BRASS CAP (NO MARK)
Y=469,797.166
X=805,274.749

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO D.O.T.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW	R/W ACRES OR S.F. REQUIRED EXISTING	TOTAL	T.L.E. ACRES OR S.F.	P.L.E. ACRES OR S.F.
41	MIDVALE CORNER, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	PLE,AR, TLE		---	---	0.053	0.029
42	AUDREY FOWLER,1/2 INTEREST; EDWARD N. HOWKEL & MARY K. HOWKEL JOINT REVOCABLE TRUST,1/2 INTEREST	FEE,PLE,TLE	0.005	---	0.005	0.071	0.006
43	JAEDOCK CHUNG & NANCY M. CHUNG(SURVIVORSHIP MARITAL PROPERTY)	FEE,TLE	0.013	---	0.013	0.036	---
44	401 NORTH THIRD STREET, LLC, A NEVADA LIMITED LIABILITY CO.	FEE,TLE	0.028	---	0.028	0.146	---
46	SPTMMR PROPERTIES TRUST	TLE	---	---	---	0.017	---
47	CAPITOL OAK REAL ESTATE, LLC	FEE,TLE	0.025	---	0.025	0.044	---
48	LANDSTAR INVESTMENTS, LLC	FEE,TLE	0.396	---	0.396	0.094	---
49	CITY OF MADISON	TLE	---	---	---	0.240	---
51	JEFFREY R. DAHLE & VICTORIA P. DAHLE,a/k/a VICTORIA P. KILLEBLAHN	TLE	---	---	---	0.062	---
52	ROBIN T. STULL	TLE	---	---	---	0.067	---
53	ANTHONY N. GRAVES	TLE	---	---	---	0.035	---
54	ERIC T. JANOUARY	FEE,TLE	0.002	---	0.002	0.020	---
56	LAMA JOHMAN & JEFFRY EL-LOHMAN	FEE,TLE	0.004	---	0.004	0.023	---
57	LEONDAS M. COLEMAN & LAURA N. COLEMAN	FEE,TLE	0.003	---	0.001	0.026	---
58	THE COMMUNITY DEVELOPMENT AUTHORITY OF THE CITY OF MADISON	FEE,TLE	0.004	---	0.004	0.024	---
59	4960 RAINIER WAY, LLC	FEE,TLE	0.001	---	0.006	0.044	---
61	PAULA K. BJERSKOW	TLE	---	---	---	0.018	---
62	CARISSA A. HICKOLS	TLE	---	---	---	0.013	---
63	KATHLEEN A. POOLE	TLE	---	---	---	0.006	---
64	CAPITAL DEVELOPMENT, LLC	TLE	---	---	---	0.011	---
66	CHRISTOPHER S. OGDEN & JANET A. OGDEN	TLE	---	---	---	0.014	---
67	TEDDY L. HEFFNER	TLE	---	---	---	0.014	---
68	BURNE COLOR LAB, LTD.	TLE	---	---	---	0.022	---
69	LUMM, LLC, A WISCONSIN LIMITED LIABILITY COMPANY	TLE	---	---	---	0.047	---
71	VERONA ROAD BP MART, LLC	FEE,TLE	0.099	---	0.099	0.184	---
79	AJS PROPERTIES, LLC	TLE	---	---	---	0.006	---

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
102	MADISON GAS & ELECTRIC COMPANY - ELECTRIC	RELEASE OF RIGHTS
106	AT&T WISCONSIN - COMMUNICATION	RELEASE OF RIGHTS
---	---	---
113	CITY OF MADISON - SEWER	RELEASE OF RIGHTS
117	MADISON GAS & ELECTRIC COMPANY - GAS/PETROLEUM	RELEASE OF RIGHTS
118	CITY OF MADISON - WATER	RELEASE OF RIGHTS
121	CENTURYTEL - COMMUNICATION	RELEASE OF RIGHTS
122	AMERICAN TRANSMISSION COMPANY, LLC	RELEASE OF RIGHTS

406-408	408-432	430-431	434-435
L = 14.45'	L = 26.74'	L = 6.22'	L = 36.63'
R = 136.00'	R = 164.00'	R = 15.00'	R = 864.00' (264.00')
C.L. = 14.45'	C.L. = 26.69'	C.L. = 6.17'	C.L. = 36.56' (36.88')
C.B.= N 8°20'41" E	C.B.= N 8°43'46" E	C.B.= S 27°33'13" W	C.B.= N 20°02'53" E (N 19°09'49" E)
431-433	436-437	437-439	439-495
L = 15.39'	L = 28.79'	L = 23.62'	L = 14.45'
R = 15.00'	R = 839.00'	R = 1,953.00'	R = 136.00'
C.L. = 15.28'	C.L. = 28.79'	C.L. = 23.62'	C.L. = 14.44'
C.B.= S 15°00'43" E	C.B.= S 23°22'24" W	C.B.= S 22°34'22" W	C.B.= N 23°18'21" E
445-446	446-450	469-470	
L = 99.28'	L = 30.47'	L = 25.26'	
R = 1,115.30'	R = 2,268.00'	R = 20.00' (20.00')	
C.L. = 99.25'	C.L. = 30.47'	C.L. = 23.83'	
C.B.= S 10°59'32" E	C.B.= S 8°58'59" E	C.B.= S 53°30'16" W	
470-472	472-473	4004-4005	
L = 524.57'	L = 34.56'	L = 17.58'	
R = 2,534.00' (2,534.00')	R = 20.00' (20.00')	R = 259.00'	
C.L. = 522.99'	C.L. = 28.39'	C.L. = 16.90'	
C.B.= N 6°52'22" W	C.B.= N 13°07'22" W	C.B.= S 82°22'25" W	

R/W COURSE TABLE		
COURSE	BEARING	LENGTH
426-427	S 89° 23' 09" E	300.79'
427-428	S 89° 23' 09" E	273.28'
428-429	S 44° 22' 55" W	159.34'
429-430	S 45° 08' 50" W	78.39'
430-431	SEE CURVE NOTE	
431-433	SEE CURVE NOTE	
433-435	S 37° 58' 34" W	60.41'
435-436	S 44° 38' 56" W	59.39'
436-437	SEE CURVE NOTE	
437-439	SEE CURVE NOTE	
439-441	S 45° 20' 18" E	1.84'
441-442	S 6° 34' 33" E	135.89'
	(S 6° 33' 35" E)	(135.80')
442-443	S 47° 44' 22" E	32.78'
	(S 47° 46' 12" E)	(32.89')
443-444	S 2° 32' 32" E	62.86'
	(S 2° 31' 48" E)	(62.60')
444-491	S 47° 22' 28" E	5.49'
	(S 48° 14' 23" E)	(5.30')
491-445	S 45° 16' 59" E	264.90'
445-446	SEE CURVE NOTE	
446-448	S 57° 06' 00" E	134.42'
448-450	SEE CURVE NOTE	
450-452	S 85° 09' 34" E	123.25'
452-453	N 4° 24' 00" E	83.83'
453-454	N 89° 53' 37" E	60.00'
	(N 89° 29' 00" E)	(145.50')
454-455	S 0° 06' 22" E	60.01'
	(S 0° 31' 00" E)	(60.20')
455-456	S 0° 31' 00" E	90.73'
456-459	S 55° 09' 15" E	32.78'
459-463	S 89° 30' 01" E	412.78'
462-463	S 23° 59' 53" E	272.36'
463-464	S 23° 50' 53" E	123.24'
464-465	N 89° 29' 23" W	99.57'
	(N 89° 15' 00" W)	(100.00')
465-4008	N 89° 25' 08" W	60.01'
4008-468	N 89° 30' 00" W	438.60'
	(N 89° 25' W	440.00')
468-469	N 89° 58' 54" W	60.64'
469-470	SEE CURVE NOTE	
470-472	SEE CURVE NOTE	
472-473	SEE CURVE NOTE	
473-475	N 76° 07' 42" W	63.32'
475-493	N 32° 30' 36" E	29.01'
493-495	N 32° 04' 56" E	28.78'
495-497	N 57° 34' 42" W	120.13'
	(N 44° 12' 00" W)	(120.00')
497-498	S 32° 14' 33" W	60.74'
	(S 32° 30' 00" W)	(60.60')
498-498	N 57° 43' 04" W	94.88'
	(N 58° 01' 30" W)	(95.00')
499-490	S 32° 08' 08" W	20.96'
490-480	N 89° 22' 03" W	279.24'
481-482	S 0° 32' 33" W	139.96'
	(S 0° 29' 20" W)	(120.00')
482-483	N 89° 20' 34" W	166.32'
	(N 89° 29' 40" W)	(166.00')
483-4004	N 0° 10' 17" E	253.36'
4004-4005	SEE CURVE NOTE	
4005-4003	S 69° 58' 52" W	60.62'
4003-466	N 0° 13' 25" E	250.13'
466-483	N 0° 13' 25" E	342.78'
483-485	N 0° 13' 25" E	1322.51'

R/W COURSE TABLE		
COURSE	BEARING	LENGTH
400-401	S 84° 52' 40" E	157.87'
	(S 85° 09' 55" E)	(158.89')
401-402	N 83° 22' 46" E	190.69'
	(N 83° 09' 00" E)	(190.69')
402-403	N 44° 39' 02" E	222.80'
403-406	N 31° 25' 37" E	122.48'
406-408	SEE CURVE NOTE	
408-410	SEE CURVE NOTE	
410-412	N 74° 09' 52" W	85.00'
	(N 75° 02' 40" W)	(83.00')
412-413	N 15° 48' 53" E	50.06'
	(N 14° 57' 17" E)	(50.00')
413-414	S 74° 11' 07" E	83.00'
	(S 75° 02' 43" E)	(83.00')
414-415	SEE CURVE NOTE	
415-416	SEE CURVE NOTE	
416-416	N 5° 11' 28" E	29.55'
416-421	N 40° 52' 03" W	20.05'
421-423	N 86° 18' 04" W	53.83'
423-424	N 83° 45' 36" W	96.18'
424-425	N 88° 56' 52" W	75.95'
425-426	N 0° 06' 14" E	35.57'
427-427	S 89° 23' 09" E	230.62'
427-428	S 89° 23' 09" E	43.45'

R/W POINT STATION & OFFSET TABLE		
400	840+65.43	167.38'
401	842+22.00	153.02'
402	1002+29.81 VR	127.28'
403	1005+57.12 VR	100.00'
406	1006+95.04 VR	73.85'
408	1007+61.14 VR	81.77'
410	1007+52.43 VR	83.06'
412	1007+53.17 VR	93.04'
413	1008+05.96 VR	87.83'
414	1008+08.38 VR	77.92'
415	1008+47.85 VR	93.15'
421	99+24.90 HM	42.39'
423	99+72.09 HM	38.78'
424	97+76.16 HM	32.42'
425	96+93.57 HM	32.97'
426	96+39.05 HM	2.60'
427	1009+55.46 VR	0.00'
428	1009+54.38 VR	279.23'
429	1006+54.84 VR	169.92'
430	1008+00.78 VR	128.15'
431	1007+85.48 VR	124.09'
433	1007+83.69 VR	120.28'
435	1007+37.04 VR	103.34'
436	1006+90.33 VR	74.06'
437	1006+44.69 VR	78.37'
439	1003+99.03 VR	90.43'
441	1003+58.59 VR	92.26'
442	1002+79.70 VR	158.60'
443	247+74.81	224.18'
444	248+12.96	174.02'
445	250+62.35	139.65'
446	251+67.31	128.22'
448	253+28.35	67.45'
450	253+60.98	57.69'
452	254+30.79	57.38'
453	254+84.01	116.49'
454	256+09.93	254.32'
455	256+32.96	295.53'
456	257+19.85	350.67'
459	257+94.50	440.77'
462	260+19.39	2220.24'
463	263+25.70	19.59'
464	263+79.85	130.30'
465	262+85.06	131.92'
468	264+25.71	216.99'
469	267+70.74	220.26'
470	269+57.85	239.10'
472	270+90.81	230.09'
473	270+72.65	209.72'
475	271+17.54	229.32'
476	271+11.27	179.50'
477	270+63.26	182.47'
479	269+61.85	246.80'
480	269+3.72	267.79'
481	268+64.42	239.84'
482	268+71.46	439.33'
483	267+33.42	533.84'
488	997+12.76 VR	0.00'
489	1141+82.48	0.00'
491	268+17.50	172.25'
493	265+17.51	208.25'
494	994+05.51 VR	258.68'
495	1008+62.86 VR	64.43'
496	1008+95.62 VR	62.87'
4003	995+36.64 VR	83.54'
4004	997+15.22 VR	217.09'
4005	996+03.56 VR	186.18'
4008	262+28.50	138.09'

T.L.E. STATION & OFFSET TABLE		
Point Number	Station	Offset
T400	995+92.63 VR	230.00'
T401	996+50.50 VR	206.00'
T402	996+94.63 VR	240.00'
T403	994+91.93 VR	374.00'
T404	993+77.89 VR	367.00'
T405	240+49.09	192.39'
T406	250+52.98	316.25'
T407	250+52.79	292.00'
T408	250+06.00	270.00'
T409	251+08.00	266.00'
T410	250+03.55	590.00'
T411	1005+95.70 VR	153.29'
T412	1005+45.00 VR	140.00'
T414	1006+35.00 VR	121.00'
T415	1006+25.00 VR	97.00'
T416	1007+26.85 VR	85.00'
T417	1007+26.87 VR	83.47'
T418	1008+09.03 VR	82.00'
T419	1008+90.00 VR	70.00'
T420	96+99.97 HM	60.54'
T421	1008+33.33 VR	102.36'
T422	1008+85.16 VR	103.18'
T423	1008+88.99 VR	208.03'
T424	1007+27.74 VR	97.00'
T425	1006+17.40 VR	95.00'
T426	1024+35.90 VR	138.37'
T427	1022+77.54 VR	145.00'
T430	248+03.00	186.02'
T431	248+59.25	178.00'
T432	248+68.33	200.00'
T433	248+83.00	194.00'
T434	249+83.00	174.00'
T435	249+66.00	162.00'
T436	250+97.49	142.00'
T437	250+97.58	137.54'
T438	250+97.40	146.00'
T439	251+68.00	142.00'
T440	252+18.00	134.00'
T441	254+85.82	131.00'
T442	254+36.17	130.08'
T443	255+95.28	250.47'
T444	257+35.00	185.00'
T445	258+70.00	185.00'
T446	258+75.00	171.50'
T447	264+36.20	163.00'
T448	263+75.31	134.87'
T449	262+85.40	215.00'
T450	262+29.85	153.00'
T451	260+45.00	85.00'
T452	260+36.80	163.00'
T456	248+21.83	183.67'
T457	249+59.46	163.23'
T458	250+33.25	152.01'
T459	251+10.77	142.50'
T460	252+44.33	133.98'
T461	253+29.71	132.02'
T462	254+07.26	132.75'
T463	257+62.25	163.69'
T464	258+06.59	171.92'
T465	258+51.45	181.25'
T466	260+92.65	217.00'
T467	261+55.46	160.94'
T468	1009+54.00 VR	238.92'
T473	253+29.00	132.00'
T474	254+83.27	246.99'
T477	995+10.00 VR	206.65'
T479	1006+93.00 VR	95.00'
T480	1003+45.92 VR	104.62'
T482	240+87.59	218.73'
T483	241+04.87	173.77'
T492	250+98.62	282.83'
T493	251+17.31	244.24'

STRAND ASSOCIATES, INC.

910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, TERRANCE L. GENSKE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1206-07-26-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TERRANCE L. GENSKE S-1443 WAUNAKEE LAND SURVEYOR

(SIGNATURE) _____ DATE 5/31/2012
(PRINTED NAME) TERRANCE L. GENSKE
(REGISTRATION NUMBER) S - 1443

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) JAMES R. KUEHN

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR MIDVALE BOULEVARD ESTABLISHED FROM PREVIOUS PROJECT T 520(1), TRANSPORTATION PROJECT PLAT 1206-07-23-4.01, ALONG WITH FOUND IRONS RELATING TO ABUTTING SURVEYS, CERTIFIED SURVEY MAPS AND SUBDIVISION PLATS OF RECORD.
EXISTING HIGHWAY RIGHT-OF-WAY FOR USH'S 12/14 & 18/151 (WEST BELTLINE HIGHWAY) ESTABLISHED FROM PREVIOUS PROJECT 104-2(42), TRANSPORTATION PROJECT PLAT NO. 1206-07-23-4.01, T 520(1) AND T 04-2(10), AND A BEST-FIT OF IRONS AND PLAT INFORMATION. NOTE: DISCREPANCIES BETWEEN DOCUMENTS WERE FOUND.

ACCESS EASEMENT
DOC. 1351702 - PARCEL 41
20-FOOT ACCESS EASEMENT TO MADISON CELLULAR TELEPHONE COMPANY
DOC. 4621257 - PARCEL 41
INGRESS/EGRESS EASEMENT
DOC. 953730 AND 953731 - PARCELS 41 & 42
INGRESS/EGRESS EASEMENT
DOC. 1492289 - PARCELS 42 & 43
INGRESS/EGRESS EASEMENT
DOC. 1422208 - PARCELS 41, 42, 43 & 44
VEHICULAR AND PEDESTRIAN CROSS- EASEMENT
V. 790 P. 500 DOC. 1511600 PARCELS 43 & 44
INGRESS, EGRESS AND PARKING EASEMENT
DOC. 4018367 - PARCELS 47, 48 & 49
RIGHT OF ENTRY AGREEMENT
DOC. 3401351 - PARCEL 71
INGRESS/EGRESS EASEMENT
DOC. 1322415 - PARCEL 79

MADISON GAS & ELECTRIC COMPANY - ELECTRIC
ELECTRIC LINE EASEMENT
V. 1088 P. 13 DOC. 2066334 PARCEL - 48
UNDERGROUND ELECTRIC EASEMENT
V. 20872 P. 47 DOC. 2412435 - PARCEL 48
RIGHT OF WAY GRANT
V. 757 P. 511 DOC. 1499442 - PARCEL 44

MADISON GAS & ELECTRIC COMPANY - GAS
GAS MAIN EASEMENT
DOC. 4216015 - PARCEL 48

CITY OF MADISON - SEWER
STORM AND SANITARY SEWER EASEMENT
PLAT OF NAKOMA PARK - PARCEL 49
10-FOOT EASEMENT PER CSM 2274 - PARCEL 44

CITY OF MADISON - WATER
6' & 10' EASEMENTS PER CSM 2274 - PARCEL 44

AT&T WISCONSIN - COMMUNICATIONS
RIGHT-OF-WAY GRANT
V. 4019 P. 87 DOC. 1759724 - PARCEL 59

CITY OF MADISON - PUBLIC WORKS / STREETS
PUBLIC SIDEWALK EASEMENT
V. 845 P. 690 DOC. 1533199 PARCEL 44

P.I. STA. 1158+65.63
Y = 468,204.630
X = 804,006.747
Δ = 39°08'41"
D = 2°27'52"
T = 826.63'
L = 1,588.45'
R = 2,325.00'
PC = 1150+39.00
PT = 1166+27.44

P.I. STA. 997+64.36 VR
Y = 468,850.716
X = 802,656.963
Δ = 1°33'12"
D = 00°55'58"
T = 83.28'
L = 166.54'
R = 6,143.00'
PC = 996+81.09 VR
PT = 998+47.63 VR
DB. = S 41° 03' 50" W

P.I. STA. 1006+36.27 VR
Y = 469,461.732
X = 803,280.970
Δ = 45°58'35"
D = 1°49'00"
T = 330.96'
L = 589.28'
R = 733.00'
PC = 1003+25.30 VR
PT = 1009+13.49 VR
D.A. = N 00°27'57" W

P.I. STA. 12+12.06 NA
Y = 469,792.015
X = 803,490.295
= 46° 44' 20" (LT)
D = 29° 22' 57"
T = 84.26'
L = 159.07'
R = 195.00'
P.C. = 11+27.80 NA
PT = 12+86.87 NA
DB = S 89°07'34" E
DA = N 44°08'06" E

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 4866377.

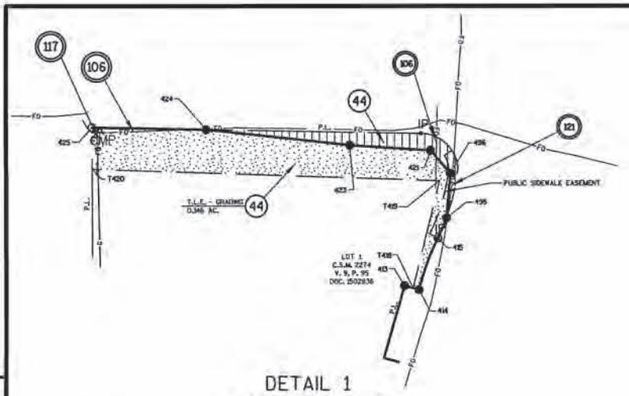
NOTE: "WISDOT LANDS" PREVIOUSLY ACQUIRED BY ADVANCED ACQUISITION PROJECT ID 1206-07-28
NOTE: STA. 1170+68.18, LEFT 1.29' = STA. 417+15.21, LEFT 0.00', PROJECT ID T 04-2(42)
EXISTING ACCESS CONTROL ALONG USH 12/14 & 18/151 (WEST BELTLINE HIGHWAY) ESTABLISHED FROM PREVIOUS PROJECT CA 04-2(10).
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.
MOST ACCESS IS FROM FRONTAGE ROADS AS SHOWN BY THE ACCESS SYMBOLOGY OUTSIDE THE EXISTING RIGHT OF WAY LINES.
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

FOUND CITY OF MADISON BRASS CAP W/ HOLE AT CENTER
Y=467,179.953
X=802,627.491

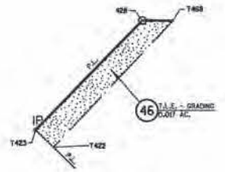
FILE NAME : S:\MAD\1000--1099\1089\269\Micros\TPP Sheets\040104_rp.dgn
APPRAISAL PLAT DATE : MAY 31, 2012
PLOT DATE : 5/31/2012 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

TRANSPORTATION PROJECT PLAT NO: 1206-07-26 - 4.04

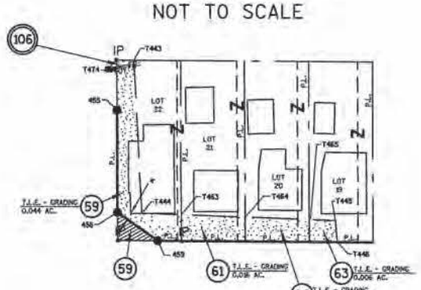
RELOCATION ORDER USH 18/151 DANE COUNTY MOUNT HOREB - MADISON ROAD
(RAYMOND ROAD – SEMINOLE HIGHWAY)



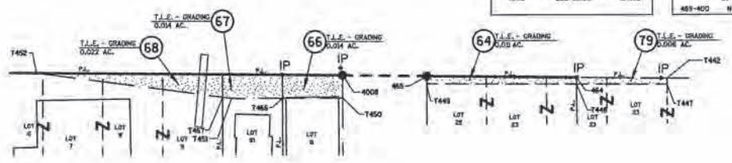
DETAIL 1
NOT TO SCALE



DETAIL 2
NOT TO SCALE



DETAIL 3
NOT TO SCALE



DETAIL 4
NOT TO SCALE

R/W POINT STATION & OFFSET TABLE

400	1040+66.43	167.38'
402	1002+29.61 VR	127.89'
403	1005+57.52 VR	100.00'
404	1006+85.04 VR	75.85'
408	1007+13.14 VR	81.77'
413	1008+09.98 VR	87.83'
414	1008+08.38 VR	77.33'
415	1008+47.85 VR	69.28'
421	99+24.90 HM	42.39'
423	96+72.01 HM	39.78'
424	97+76.16 HM	32.42'
425	98+93.57 HM	32.51'
428	1009+54.18 VR	279.23'
439	1003+59.03 VR	90.43'
441	1003+58.58 VR	92.26'
444	1148+12.08	174.00'
455	1156+32.96	195.53'
456	1157+18.15	150.87'
459	1157+51.50	140.77'
464	1163+75.16	130.39'
465	1162+85.06	133.92'
472	1151+90.31	230.09'
473	1151+72.55	209.72'
475	1151+17.54	228.32'
476	1151+17.27	175.50'
477	1150+03.25	182.47'
478	1150+05.86	243.36'
491	1148+17.50	173.25'
493	1151+17.51	203.25'
495	1008+62.86 VR	84.43'
496	1008+95.62 VR	62.37'
4008	1162+26.50	138.05'

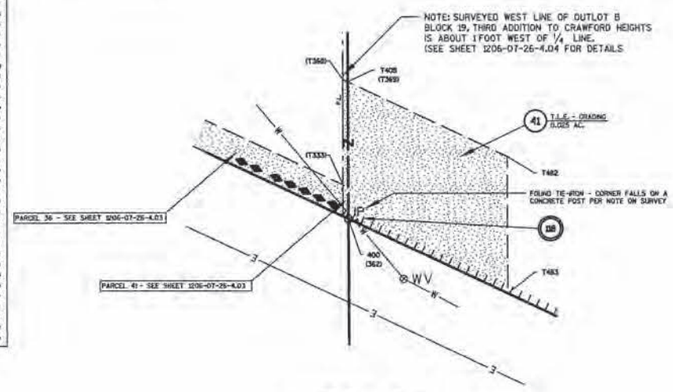
415-495	470-472
L = 14.49'	L = 624.57'
R = 138.00'	R = 2534.00 (2534.00')
L.C. = 14.49'	L.C. = 622.99'
L.C.B. = N 23°49'21" E	L.C.B. = N 65°23'22" W
414-415	472-473
L = 36.63'	L = 36.56'
R = 84.00'	R = 20.00'
L.C. = 36.50'	L.C. = 28.39'
L.C.B. = N 20°01'53" E	L.C.B. = N 13°07'22" W

R/W COURSE TABLE

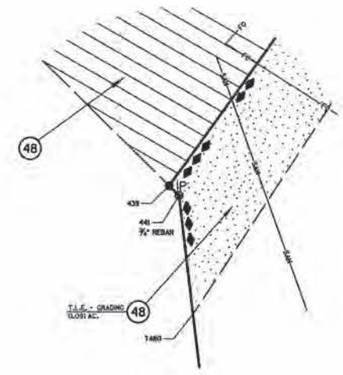
COURSE	BEARING	LENGTH
400-401	S 64° 50' 40" E	157.67'
401-402	N 83° 27' 44" E	190.53'
	(N 83° 05' 09" W)	(190.53')
402-403	N 44° 39' 02" E	222.60'
403-406	N 31° 25' 37" E	122.48'
406-408	SEE CURVE NOTE	
408-410	SEE CURVE NOTE	
410-413	N 85° 48' 53" E	50.06'
	(N 14° 57' 07" E)	(50.00')
413-414	S 74° 11' 07" E	10.00'
	(S 75° 02' 43" E)	(10.00')
414-415	SEE CURVE NOTE	
415-495	SEE CURVE NOTE	
495-496	N 5° 12' 25" E	29.96'
496-421	N 40° 57' 03" W	20.06'
421-423	N 86° 38' 04" W	53.63'
423-424	N 83° 45' 38" W	96.13'
424-425	N 88° 56' 56" W	76.85'
425-428	N 0° 05' 14" W	35.57'
427-428	S 89° 23' 01" E	279.28'
428-429	S 44° 21' 55" W	159.14'
437-439	SEE CURVE NOTE	
439-441	S 45° 20' 58" E	1.84'
441-442	S 8° 34' 35" E	(35.85)
	(S 8° 33' 35" E)	(135.85)
442-443	S 47° 44' 22" E	92.78'
	(S 47° 46' 02" E)	(92.89')
443-444	S 2° 32' 32" E	62.86'
	(S 2° 31' 48" E)	(62.80')
444-491	S 47° 23' 18" E	5.49'
	(S 48° 14' 23" E)	(5.50')
491-445	S 48° 16' 59" E	254.90'
455-456	S 41° 30' 40" E	90.73'
456-459	S 55° 09' 15" E	32.78'
459-462	S 89° 30' 09" E	142.78'
462-464	S 23° 55' 53" E	123.24'
464-465	N 85° 26' 23" W	95.51'
	(N 89° 15' 00" W)	(100.00')
465-4008	N 89° 26' 08" W	60.02'
4008-468	N 81° 30' 01" W	436.80'
	(N 89° 25' 9" W	440.00')
470-472	SEE CURVE NOTE	
472-473	SEE CURVE NOTE	
473-475	N 76° 07' 42" W	63.32'
475-493	N 32° 30' 35" E	20.01'
493-476	N 32° 04' 58" E	26.75'
476-477	N 57° 34' 42" W	210.25'
	(N 64° 15' 00" W)	(210.00')
477-478	S 32° 14' 33" W	60.74'
	(S 32° 23' 00" W)	(60.60')
478-479	N 57° 43' 04" W	34.88'
	(N 58° 07' 30" W)	(35.00')
469-400	N 0° 13' 15" W	203.68'

T.I.E. STATION & OFFSET TABLE

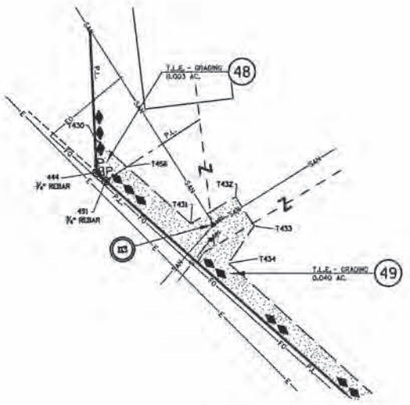
Point Number	Station	Offset
T405	1140+49.05	192.39'
T406	1150+52.98	348.25'
T407	1150+52.79	360.00'
T408	1151+08.00	270.00'
T409	1151+08.00	186.00'
T410	1150+03.55	180.00'
T411	1005+95.70 VR	133.29'
T413	1005+45.00 VR	140.00'
T414	1006+70.00 VR	127.00'
T415	1006+35.00 VR	97.00'
T416	1007+26.85 VR	85.00'
T417	1007+26.87 VR	83.47'
T419	1009+09.03 VR	82.00'
T418	1008+90.00 VR	70.00'
T420	96+99.97 HM	60.57'
T421	4005+33.33 VR	122.26'
T422	1008+85.30 VR	213.18'
T423	1008+68.99 VR	298.03'
T426	1004+35.90 VR	139.37'
T427	1002+72.54 VR	145.09'
T430	1148+03.00	186.02'
T431	1148+59.25	178.00'
T432	1148+68.63	200.00'
T433	1148+63.00	194.00'
T434	1145+63.00	174.00'
T442	1154+36.17	130.09'
T443	1154+85.29	250.47'
T444	1157+35.00	155.00'
T445	1158+70.00	185.00'
T446	1158+75.00	191.50'
T447	1154+36.20	134.00'
T448	1153+28.89	137.85'
T449	1152+85.40	139.09'
T450	1162+29.85	153.09'
T451	1161+51.00	161.00'
T452	1160+38.80	153.00'
T456	1148+23.83	153.67'
T463	1157+82.15	161.69'
T464	1158+06.59	173.92'
T465	1158+51.45	191.35'
T466	1161+92.65	157.05'
T467	1161+96.46	160.94'
T468	1059+54.00 VR	288.82'
T474	1158+83.27	246.99'
T480	1003+49.92 VR	104.42'
T492	1140+87.59	196.73'
T493	1141+04.87	173.75'
T492	1150+98.62	282.83'
T493	1151+17.51	244.29'



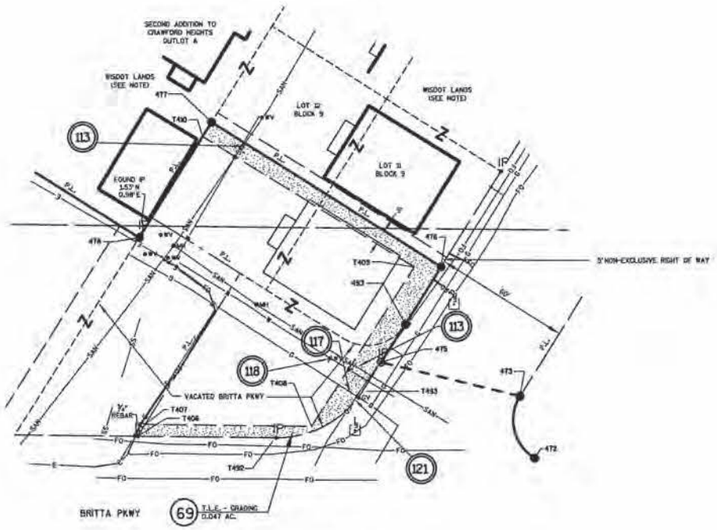
DETAIL 5
NOT TO SCALE



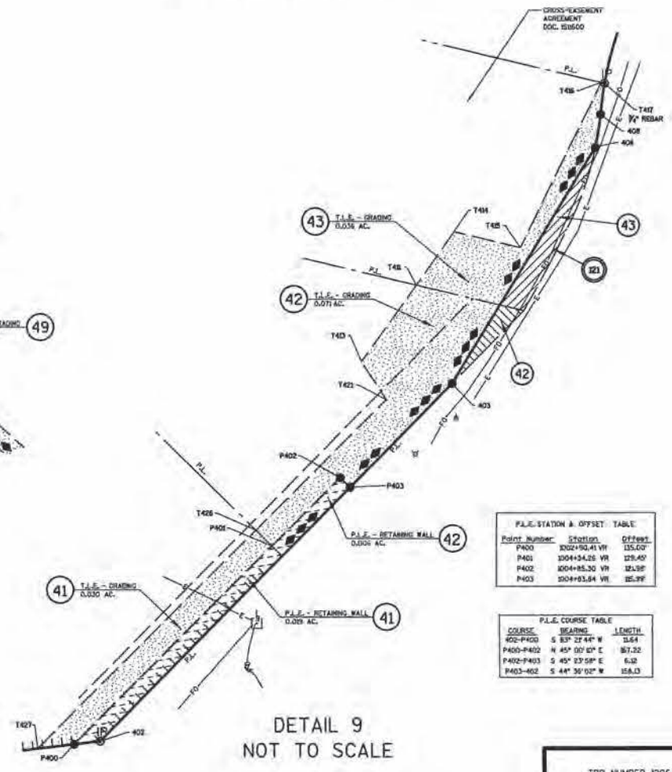
DETAIL 7
NOT TO SCALE



DETAIL 8
NOT TO SCALE



DETAIL 6
NOT TO SCALE



P.I.E. STATION & OFFSET TABLE

Point Number	Station	Offset
P400	1002+90.41 VR	135.00'
P401	1004+34.26 VR	125.45'
P402	1004+85.30 VR	121.88'
P403	1004+83.84 VR	165.99'

P.I.E. COURSE TABLE

COURSE	BEARING	LENGTH
P402-P400	S 83° 29' 44" W	51.61
P400-P402	N 45° 00' 00" E	87.32
P402-P403	S 45° 23' 58" E	6.42
P403-402	S 44° 30' 02" W	158.13

DETAIL 9
NOT TO SCALE

TPP NUMBER 1206-07-26 -4.04
SHEET 2 OF 2

FILE NAME : S:\MAD\1000--1099\1089\269\Micros\TPP Sheets\040104-2_rp.dgn
APPRAISAL PLAT DATE : MAY 31, 2012
PLOT DATE : 5/31/2012
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$

4.04

TRANSPORTATION PROJECT PLAT NO: 1206-07-26 - 4.05

THAT PART OF LOT 5 OF BLOCK 5, AND LOTS 6 AND 7 OF BLOCK 3, AND LOT 15 OF BLOCK 4, IN THE PLAT OF FIRST ADDITION TO CRAWFORD HEIGHTS. ALSO THAT PART OF NAKOMA TERRACE CONDOMINIUM (BEING A PART OF LOT 8 OF BLOCK 3 OF THE PLAT OF FIRST ADDITION TO CRAWFORD HEIGHTS. ALSO THAT PART OF THE SW1/4 OF THE NE1/4 OF SECTION 32. ALL IN T 7 N, R 9 E, CITY OF MADISON, DANE COUNTY, WISCONSIN.

RELOCATION ORDER USH 18/151 DANE COUNTY MOUNT HOREB - MADISON ROAD (RAYMOND ROAD - SEMINOLE HIGHWAY)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1206-07-26-4.05
AMENDMENT NO:

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTEREST TO D.O.T.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES OR S.F. REQUIRED NEW	R/W ACRES OR S.F. REQUIRED EXISTING	R/W ACRES OR S.F. REQUIRED TOTAL	T.L.E. ACRES OR S.F.	H.E. ACRES OR S.F.
46	SPTMNR PROPERTIES TRUST	TLE	----	----	----	0.020	----
73	NAKOMA TERRACE CONDOMINIUM OWNERS ASSOCIATION	TLE	----	----	----	0.010	----
74	RYAN M. ERICKSON	FEE,TLE	0.008	----	0.008	0.055	----
76	REINHART H. POSTWEILER REVOCABLE TRUST	FEE,TLE	0.027	----	0.027	0.041	----
77	DONALD A. GRANGER	FEE,TLE	0.005	----	0.005	0.043	----

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

R/W COURSE TABLE		
COURSE	BEARING	LENGTH
500-501	S 88° 56' 51" E	115.82
501-504	N 70° 14' 41" E	36.35
504-506	N 89° 33' 07" E	60.08
506-507	N 89° 33' 07" E	59.92
507-508	S 36° 04' 07" E	12.40
508-510	S 89° 07' 34" E	88.46
510-513	SEE CURVE NOTE	
513-518	S 17° 50' 12" E	38.75
518-514	S 17° 50' 12" E	35.86
514-517	N 89° 23' 01" W	43.65
517-515	N 89° 23' 01" W	235.62
515-516	N 89° 23' 01" W	210.22
516-500	N 0° 25' 43" W	29.76
KL6704-514	N 89° 23' 01" W	1717.52

R/W POINT STATION & OFFSET TABLE		
500	97+88.37 HM	33.76'
501	99+04.77 HM	34.84'
504	99+38.79 HM	47.64'
506	1010+02.11 VR	0.00'
507	1010+02.09 VR	59.92'
508	10+65.62 NA	57.50'
510	11+64.89 NA	54.97'
513	13+01.31 NA	34.20'
514	12+69.18 NA	32.59'
515	1009+59.46 VR	0.00'
516	97+89.56 HM	4.03'
517	12+37.29 NA	6.48'
518	12+83.10 NA	0.04'

T.L.E. STATION & OFFSET TABLE		
Point Number	Station	Offset
TS00	97+87.98 HM	43.56'
TS01	99+36.68 HM	52.51'
TS03	1010+14.00 VR	59.92'
TS04	10+66.49 NA	65.51'
TS06	12+29.16 NA	94.90'
TS07	12+30.86 NA	91.24'
TS08	12+94.03 NA	38.60'
TS09	14+04.37 NA	43.07'
TS10	14+05.10 NA	33.78'
TS11	13+92.19 NA	39.16'
TS12	12+75.24 NA	39.10'
TS13	12+27.60 NA	61.37'
TS17	12+44.83 NA	95.05'
TS18	13+51.05 NA	41.40'
TS22	13+92.17 NA	32.16'
TS05	12+10.88 NA	58.03'

P.I. STA. 1006+36.27 VR
Y = 469,461.732
X = 803,280.970
Δ = 45°58'36" (LT)
D = 7°49'00"
T = 330.96'
L = 588.19'
R = 733.00'
PC = 1003+25.30 VR
PT = 1009+13.49 VR
OB = S 45°30'36" W

P.I. STA. 12+12.06 NA
Y = 469,792.016
X = 803,490.295
Δ = 46° 44' 20" (LT)
D = 29° 22' 57"
T = 84.26'
L = 159.07'
R = 195.00'
P.C. = 11+27.80 NA
PT = 12+86.87 NA
OB = S 89°07'34" E
DA = N 44°08'06" E

P.I. STA. 94+85.57 HM
Y = 469,822.014
X = 802,763.798
Δ = 0° 02' 52" (LT)

P.I. STA. 97+25.57 HM
Y = 469,818.952
X = 803,003.778
Δ = 1° 07' 04" (RT)

P.I. STA. 98+73.10 HM
Y = 469,814.152
X = 803,151.238
Δ = 0° 58' 30" (LT)

5-FOOT PUBLIC UTILITY EASEMENT
V. 543 P. 87 DOC. 1795945 - PARCEL 76
5-FOOT PUBLIC UTILITY EASEMENT
V. 535 P. 394 DOC. 1881131 - PARCEL 74

CITY OF MADISON - PUBLIC WORKS / STREETS
PUBLIC SIDEWALK EASEMENT
V. 335 P. 173 DOC. 1323401 - PARCEL 76

FOUND BRASS CAP W/ HOLE AT CENTER
Y=472,494.180
X=802,601.671

FOUND ¾" REBAR IN WATER BOX
Y=469,853.912
X=799,959.656
S 00°20'01" E 33.00' R/W TO CORNER
S 89°23'35" E 2657.78' CORNER TO CORNER

FOUND ½" SQUARE BAR IN WATER BOX
Y=469,825.760
X=802,617.291

FOUND CITY OF MADISON BRASS CAP W/ HOLE AT CENTER
Y=467,179.953
X=802,627.491

S. 00°20'01" E. 2655.46' CORNER TO R/W

SE-NW

CITY OF MADISON

SW-NE

NE-SW

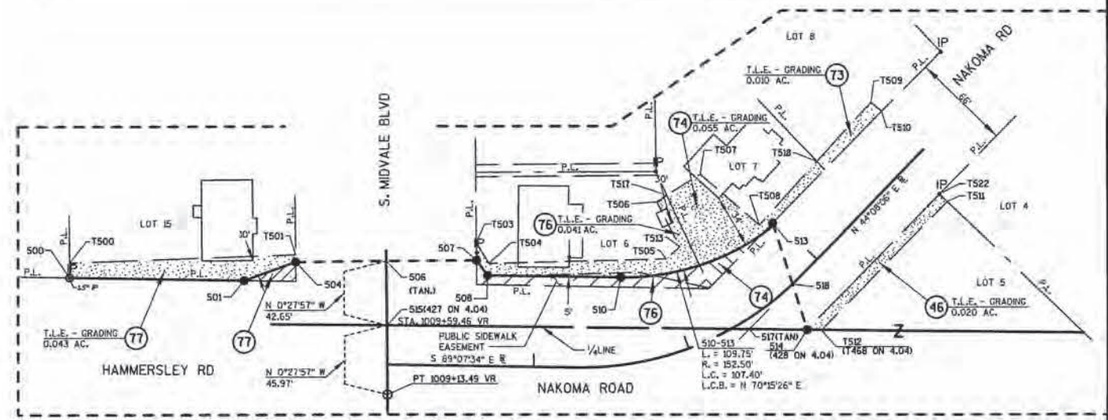
NW-SE

SE-NE

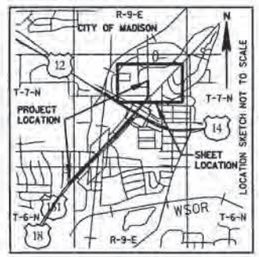
NE-SE

N

SCALE, FEET
0 100 200



DETAIL 1
NOT TO SCALE



COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT-OF-WAY FOR HAMMERSLEY ROAD, SOUTH MIDVALE BOULEVARD AND NAKOMA ROAD BASED ON EXISTING SUBDIVISION PLATS AND A BEST-FIT OF FOUND IRONS IN THE AREA. THE NAKOMA ROAD RIGHT-OF-WAY WAS HELD AT 66 FEET PER THE PLAT OF FIRST ADDITION TO CRAWFORD HEIGHTS. CONFLICTS WERE FOUND WITH SOME PLAT DATA, AND ALSO WITH FOUND IRONS IN THE AREA, HENCE THE BEST-FIT RIGHT-OF-WAY ALONG NAKOMA ROAD.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER 4866377.

STRAND ASSOCIATES, INC. ®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, TERRANCE L. GENSKE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1206-07-26-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TERRANCE L. GENSKE S-1443 WAUNAKEE WI LAND SURVEYOR

(SIGNATURE) _____ DATE 5/31/2012
(PRINTED NAME) TERRANCE L. GENSKE
(REGISTRATION NUMBER) S - 1443

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) JAMES [illegible]

FILE NAME : S:\MAD\1000--1099\1089\269\Micros\TPP Sheets\040105_rp.dgn
APPRAISAL PLAT DATE : MAY 31, 2012
PLOT DATE : 5/31/2012
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$

DATE: MAY 31, 2012

REVISION DATE :

TRANSPORTATION PROJECT PLAT NO: 1206-07-26 - 4.06

RELOCATION ORDER USH 18/151 DANE COUNTY MOUNT HOREB - MADISON ROAD
(RAYMOND ROAD - SEMINOLE HIGHWAY)

R/W MONUMENT POINT NUMBER AND COORDINATE TABLE

R/W MONUMENT POINT STATION AND COORDINATE TABLE - 4.01

POINT	Y	X
100,	466823.372,	800462.880
102,	466973.233,	800450.393
103,	467200.616,	800456.619
104,	467195.639,	800984.813
105,	467194.209,	801136.526
106,	467194.106,	801147.425
107,	466987.150,	801123.379
108,	466991.766,	801122.661
109,	467005.693,	801109.801
111,	467010.216,	801090.803
112,	466987.101,	801005.134
114,	466940.510,	800956.197
115,	466832.831,	800843.099
116,	466738.779,	800744.312
117,	466655.666,	800662.609
118,	466497.841,	800608.836
120,	466420.117,	800605.003
121,	466329.985,	800601.818
122,	466424.187,	800575.128
124,	466404.200,	800574.422
125,	466447.617,	800528.203
126,	466496.317,	800576.076
127,	466531.368,	800540.420
128,	466699.458,	800495.785

R/W MONUMENT POINT STATION AND COORDINATE TABLE - 4.02

POINT	Y	X
201,	467908.549,	801068.427
202,	467887.507,	801284.189
203,	467866.237,	801322.294
205,	467787.354,	801382.290
206,	467794.116,	801392.813
207,	467197.321,	800805.313
208,	467888.866,	801495.848
211,	467213.618,	800806.181
212,	467229.617,	800805.052
213,	467317.288,	800899.096
214,	467434.129,	801013.346
2001,	467926.313,	801523.243
2002,	468056.498,	801497.537
2004,	468087.477,	801504.547
219,	468250.393,	801528.017
220,	468276.235,	801527.399
221,	468410.116,	801580.252
223,	468424.057,	801594.063
224,	468512.838,	801680.925
225,	468512.138,	801747.122
226,	468511.585,	801799.449
227,	468511.224,	801833.557
228,	468508.319,	802108.339
229,	468477.612,	801759.531
230,	468304.844,	801936.115
231,	468316.247,	801947.339
232,	468330.234,	801933.043
233,	468508.026,	802108.051
234,	468505.840,	802325.620
235,	468503.559,	802552.672
237,	468192.956,	801825.979
241,	468423.421,	802502.564
243,	468409.364,	802570.251
245,	468409.559,	802622.751
246,	468349.553,	802622.982
247,	468349.355,	802589.923
248,	468382.470,	802449.919
250,	468380.349,	802431.392
252,	468328.774,	802380.624
253,	468272.520,	802343.946
255,	468235.056,	802333.893
257,	468134.891,	802318.971
258,	468041.861,	802286.101
260,	468014.307,	802273.474
261,	467941.696,	802236.084
262,	467926.926,	802238.457
263,	468505.202,	801820.294
264,	467850.060,	802315.766
266,	467582.288,	801030.548
267,	467803.784,	802347.504
268,	467803.718,	802331.810
269,	467742.199,	802271.639
270,	467821.982,	802247.640
272,	467884.373,	802184.352
273,	467881.324,	802155.641
275,	467827.544,	802070.147
277,	467811.828,	802034.919
279,	467760.291,	801915.663
280,	467748.958,	801886.441
282,	467640.806,	801886.441
283,	467640.806,	801796.051
284,	467610.545,	801795.897
285,	467610.995,	801767.015
286,	467645.648,	801734.784
287,	467433.875,	801526.067
288,	467412.686,	801526.244
290,	467344.045,	801596.198
291,	467287.339,	801559.754
292,	467391.790,	801453.304
293,	467391.932,	801432.445
295,	467193.394,	801223.022
296,	467195.639,	800984.813
298,	468502.858,	802623.391
378,	468512.145,	801746.467
2022,	468323.547,	801636.792
2024,	468304.806,	801623.138
2026,	468263.838,	801613.464
2027,	468153.731,	801602.559
2028,	468063.075,	801604.883
2029,	468023.010,	801618.238
2031,	468002.096,	801618.774
2033,	468447.726,	802497.714
2085,	468195.093,	801828.083
P200,	467917.490,	801069.466
P201,	467896.465,	801285.063
P209,	467871.682,	801329.460
P203,	467792.235,	801389.885
P227,	468033.108,	802297.815

R/W MONUMENT POINT STATION AND COORDINATE TABLE - 4.03

POINT	Y	X
300,	468508.319,	802108.339
301,	468512.838,	801680.925
302,	468530.265,	801697.975
303,	468584.482,	801851.525
304,	468608.173,	802206.755
305,	469839.414,	801328.276
309,	468563.689,	802029.142
310,	468562.993,	802095.373
311,	468596.762,	802191.608
314,	468625.520,	802223.902
315,	468672.710,	802270.544
317,	468790.916,	802359.240
318,	468802.737,	802370.760
319,	469038.765,	802405.780
321,	469291.368,	802148.751
323,	469356.171,	802046.107
325,	469384.822,	802003.534
326,	469487.515,	801840.871
328,	469510.322,	801808.492
329,	469559.182,	801731.100
331,	469771.834,	801400.361
332,	469790.336,	801368.140
336,	469806.478,	801322.070
337,	469943.681,	801347.323
338,	470046.631,	801367.322
339,	470020.242,	801409.273
340,	469996.198,	801462.395
342,	469924.436,	801579.602
343,	470046.071,	801579.167
344,	470045.725,	801674.112
345,	469989.576,	801674.423
346,	469988.530,	801776.128
347,	469867.668,	801776.476
348,	469087.789,	802328.356
349,	469066.672,	802314.973
350,	469107.607,	802249.755
351,	469181.033,	802296.289
356,	469800.538,	801882.872
357,	469748.956,	801883.221
358,	469630.652,	802104.559
360,	469522.007,	802299.054
361,	469472.768,	802383.204
362,	469361.997,	802619.079
363,	469158.322,	802618.864
364,	468815.566,	802621.185
369,	468503.559,	802552.672
370,	468505.840,	802325.620
371,	468508.026,	802108.051
372,	469741.174,	801837.850
373,	469742.893,	801838.875
377,	469837.492,	801538.039
378,	468512.145,	801746.467
379,	469667.614,	802038.391
380,	469834.103,	801829.674
3001,	468539.782,	802592.306
3003,	468565.439,	802622.150
3005,	468705.799,	802303.249
3006,	468709.578,	802302.660
3007,	469806.423,	801327.323
3008,	468796.908,	802353.157

R/W MONUMENT POINT STATION AND COORDINATE TABLE - 4.04

POINT	Y	X
400,	469361.997,	802619.079
401,	469294.975,	802761.795
402,	469317.017,	802951.205
403,	469475.510,	803107.505
406,	469580.023,	803171.367
408,	469594.318,	803173.464
410,	469630.218,	803180.912
412,	469632.947,	803171.292
413,	469681.112,	803184.934
414,	469678.387,	803194.556
415,	469712.733,	803207.078
421,	469771.012,	803202.381
423,	469774.472,	803148.862
424,	469784.920,	803053.298
425,	469786.316,	802977.363
426,	469821.886,	802977.299
427,	469818.650,	803278.067
428,	469815.645,	803557.328
429,	469701.873,	803446.049
430,	469641.953,	803395.507
431,	469636.218,	803392.519
433,	469621.560,	803396.450
435,	469573.943,	803359.280
436,	469531.690,	803317.544
437,	469332.994,	803232.355
439,	469206.470,	803148.909
441,	469205.177,	803150.217
442,	469070.178,	803165.779
443,	469007.785,	803234.443
444,	468944.988,	803237.231
445,	468764.989,	803439.004
446,	468701.539,	803515.319
448,	468628.523,	803628.183
450,	468614.211,	803655.080
452,	468562.423,	803766.925
453,	468646.009,	803773.350
454,	468646.279,	803918.858
455,	468586.169,	803918.969
456,	468518.216,	803979.095
459,	468499.488,	804005.995
462,	468495.888,	804418.755
463,	468246.946,	804529.234
464,	468134.301,	804579.226
465,	468135.274,	804479.721
468,	468139.693,	803980.939
469,	468148.152,	803920.891
470,	468134.107,	803901.909
472,	468393.551,	803335.512
473,	468421.195,	803329.068
475,	468436.376,	803267.593
476,	468478.508,	803294.181
477,	468542.915,	803192.775
478,	468491.543,	803160.371
479,	468542.217,	803080.158
480,	468524.469,	803069.010
481,	468525.895,	802939.773
482,	468405.936,	802938.637
483,	468407.843,	802772.428
488,	468815.566,	802621.185
489,	469158.322,	802619.864
491,	468941.269,	803241.269
493,	468453.297,	803278.377
494,	469608.252,	803.175.363
495,	469726.000,	803212.793
496,	469755.837,	803215.504
P400,	469315.671,	802939.638
P401,	469403.545,	803027.521
P402,	469433.905,	803057.884
P403,	469429.610,	803062.239
4003,	468565.439,	802622.150
4004,	468659.197,	802771.676
4005,	468604.960,	802668.121
4006,	468135.866,	804419.717

R/W MONUMENT POINT STATION AND COORDINATE TABLE - 4.05

POINT	Y	X
500,	469850.668,	803067.640
501,	469848.540,	803183.436
504,	469860.827,	803217.647
506,	469861.297,	803277.721
507,	469861.765,	803337.643
508,	469851.740,	803344.945
510,	469850.391,	803433.392
513,	469886.669,	803534.475
514,	469815.645,	803557.328
515,	469818.650,	803278.067
516,	469820.912,	803067.863
517,	469816.115,	803513.676
518,	469849.783,	803546.343

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

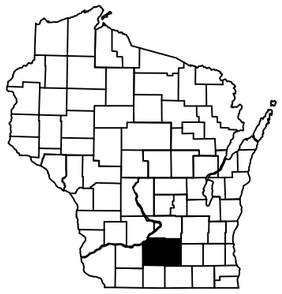
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APPRAISAL PLAT DATE : MAY 31, 2012

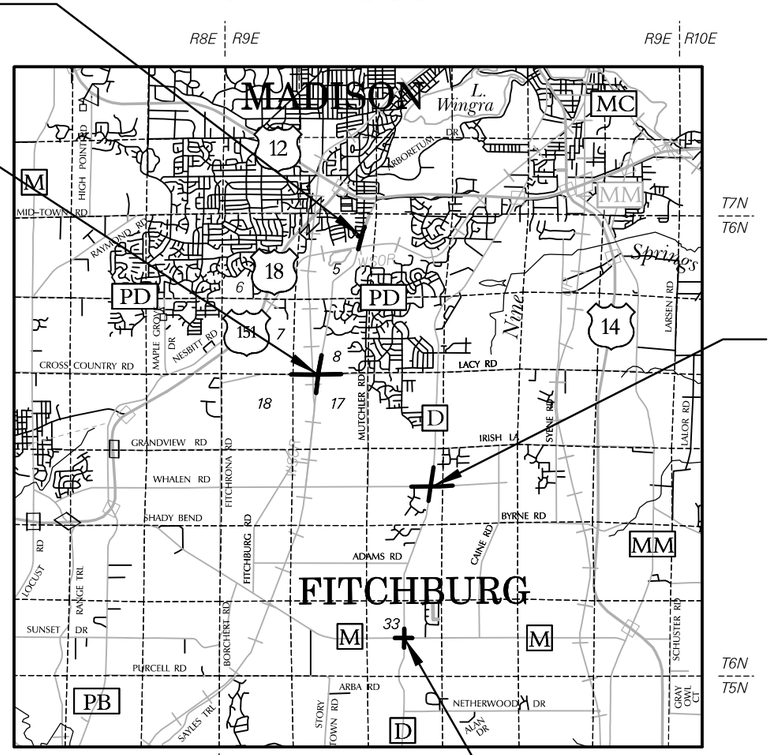
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
PROJECT 1206-07-29
MOUNT HOREB - MADISON
(LOCAL ROAD INTERSECTIONS)
USH 18
DANE COUNTY



PROJECT LOCATION
SEMINOLE HWY/SENTINEL PASS
SHEET 4.01

PROJECT LOCATION
SEMINOLE HWY/LACY ROAD
SHEET 4.02



PROJECT LOCATION
CTH D/WHALEN ROAD
SHEET 4.03

PROJECT LOCATION
CTH D/CTH M
SHEETS 4.04, 4.05

N

LAYOUT SCALE

0 1 2 4

MILES

NOTES

THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 1206-07-29.

DISTANCES SHOWN FROM BUILDINGS TO RIGHT OF WAY LINES ARE APPROXIMATE.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

ALL RIGHT-OF-WAY LINES DEPICTED IN NON ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
-EXISTING HIGHWAY RIGHT-OF-WAY FOR SEMINOLE HIGHWAY AT SENTINEL PASS BASED ON THE PLAT OF ROSEDALE, CSM 2465, CSM 6293.
-EXISTING HIGHWAY RIGHT-OF-WAY FOR SENTINEL PASS BASED ON THE PLAT OF ROSEDALE, CSM 2465, CSM 6293.
-EXISTING HIGHWAY RIGHT-OF-WAY FOR SEMINOLE HIGHWAY AT LACY ROAD BASED ON THE PAVEMENT CENTERLINE AND CSM 8023.
-EXISTING HIGHWAY RIGHT-OF-WAY FOR LACY ROAD BASED ON PREVIOUS PROJECT: 5849-00-66, THE SOUTH LINE OF SECTION 8, AND CSM 8023.
-EXISTING HIGHWAY RIGHT-OF-WAY FOR C.T.H. D AT WHALEN ROAD BASED ON THE COUNTRY HEIGHTS PLAT, CSM 3693, CSM 4634, CSM 12499, CSM 2240.
-EXISTING HIGHWAY RIGHT-OF-WAY FOR WHALEN ROAD BASED ON THE COUNTRY HEIGHTS PLAT, CSM 3693, CSM 4634.
-EXISTING HIGHWAY RIGHT-OW-WAY FOR C.T.H. D AT C.T.H. M BASED ON THE N-S QUARTER LINE OF SEC. 33, PAVEMENT CENTERLINE, CSM 3678, CSM 2482, CSM 3403, CSM 5245.
-EXISTING HIGHWAY RIGHT-OF-WAY FOR C.T.H. M BASED ON PREVIOUS PROJECTS: S0257 (4) & (5), 1208, 1210 CSM 914, CSM 3678.

EXISTING ACCESS CONTROL ALONG SEMINOLE HIGHWAY ESTABLISHED FROM EAST HILL ADDITION TO BELMAR AND SECTION 27 OF THE CITY OF FITCHBURG ORDINANCES. (SHEET 4.01)
EXISTING ACCESS CONTROL ALONG SEMINOLE HIGHWAY AND LACY ROAD ESTABLISHED FROM SECTION 27 OF THE CITY OF FITCHBURG ORDINANCES. (SHEET 4.02)
EXISTING ACCESS CONTROL ALONG C.T.H. D AND WHALEN ROAD ESTABLISHED FROM SECTION 27 OF THE CITY OF FITCHBURG ORDINANCES, CSM 3693, AND CSM 12499. (SHEET 4.03)
EXISTING ACCESS CONTROL ALONG CTH D AND CTH M ESTABLISHED FROM SECTION 27 OF THE CITY OF FITCHBURG ORDINANCES, CSM 2402, CSM 3403, AND CSM 3678. (SHEETS 4.04, 4.05)

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 3/4" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE LAND SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

A TEMPORARY LIMITED EASEMENT (T.L.E.) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (T.L.E.'S) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (P.L.E.) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (H.E.), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS AND INTERESTS REQUIRED.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	POINT OF CURVATURE	PC
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC.	POINT OF REVERSE CURVATURE	PRC
AGRICULTURAL	AG	PRIVATE DRIVEWAY	P.D.
AHEAD	AH	POINT ON TANGENT	POT
ALUMINUM	ALUM.	PROPERTY LINE	P.L.
AND OTHERS	ET.AL.	RECORDED AS	(100')
BACK	BK	REFERENCE LINE	℄
BLOCK	BLK	REMAINING	REM.
CENTERLINE	C/L	RIGHT	RT.
CERTIFIED SURVEY MAP	C.S.M.	RIGHT OF WAY	R/W
CONCRETE	CONC.	SECTION	SEC.
CORNER	COR.	SEPTIC VENT	SEPV.
COUNTY	CO.	SQUARE FEET	S.F.
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HIGHWAY	STH
DISTANCE	DIST.	STATION	STA.
DOCUMENT NUMBER	DOC.	SUBDIVISION	SUBD
EASEMENT	EASE	TANGENT	TAN.
EXISTING	EX.	TELEPHONE PEDESTAL	T.P.
GAS VALVE	G.V.	TEMPORARY LIMITED EASEMENT	T.L.E.
GRID NORTH	GN	TRANSPORTATION PROJECT PLAT	TPP
HIGHWAY EASEMENT	H.E.	UNITED STATES HIGHWAY	USH
IDENTIFICATION	ID.	VOLUME	V.
LAND CONTRACT	LC	WITH	W/
LEFT	LT.	**CURVE DATA**	
MONUMENT	MON.	LONG CHORD	L.C.
NATIONAL GEODETIC SURVEY	NGS	LONG CHORD BEARING	L.C.B.
NUMBER	NO.	RADIUS	R.
OUTLOT	O.L.	DEGREE OF CURVE	D.
PAGE	P.	CENTRAL ANGLE OR DELTA	△.
PART OF	PT.	LENGTH OF CURVE	L.
PERMANENT LIMITED EASEMENT	P.L.E.	TANGENT	T.
POINT OF BEGINNING	P.O.B.	DIRECTION AHEAD	DA.
POINT OF COMPOUND CURVE	PCC	DIRECTION BACK	DB.

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" IRON PIPE UNLESS NOTED)	⊎	PROPOSED R/W LINE	
R/W MONUMENT	•(SET)	EXISTING H.E. LINE	
R/W STANDARD	▲(SET)	PROPERTY LINE	
SIGN	SIGN	LOT & TIE LINES	
SECTION CORNER MONUMENT	●	SLOPE INTERCEPTS	
SECTION CORNER SYMBOL		CORPORATE LIMITS	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL OR ACQUISITION)	
TEMPORARY LIMITED EASEMENT	T.L.E.	ACCESS RESTRICTED (BY ACQUISITION)	
PERMANENT LIMITED/HIGHWAY EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
R/W BOUNDARY POINT	8730	SECTION LINE	
BUILDING		QUARTER LINE	
BUILDING TO BE REMOVED		SIXTEENTH LINE	
PARCEL NUMBER	102	EXISTING CENTERLINE	
UTILITY NUMBER	92	PROPOSED REFERENCE LINE	
SIGN NUMBER (OFF PREMISE)	21-1	PARALLEL OFFSET	
		RECORD MEASUREMENT (TYP.)	(S 89°35'36" W)
		NATIONAL GEODETIC SURVEY MONUMENT	⊗NGS

CONVENTIONAL UTILITY SYMBOLS

WATER	—W—	
GAS	—G—	
TELEPHONE	—T—	
OVERHEAD	—OH—	
TRANSMISSION LINES ELECTRIC	—E—	
CABLE TELEVISION	—TV—	
FIBER OPTIC	—FO—	
SANITARY SEWER	—SAN—	
STORM SEWER	—SS—	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

TPP NUMBER 1206-07-29 - 4.01
SHEET 2 OF 2

690

FILE NAME : S:\MAD\1000--1099\1089\329\Micros\TPP\040101_rt.dgn | PLOT DATE : 6/13/2012 | PLOT BY : _username_ | PLOT NAME : | PLOT SCALE : $$.....plotscale.....$$

4.01

SCHEDULE OF LANDS & INTERESTS REQUIRED

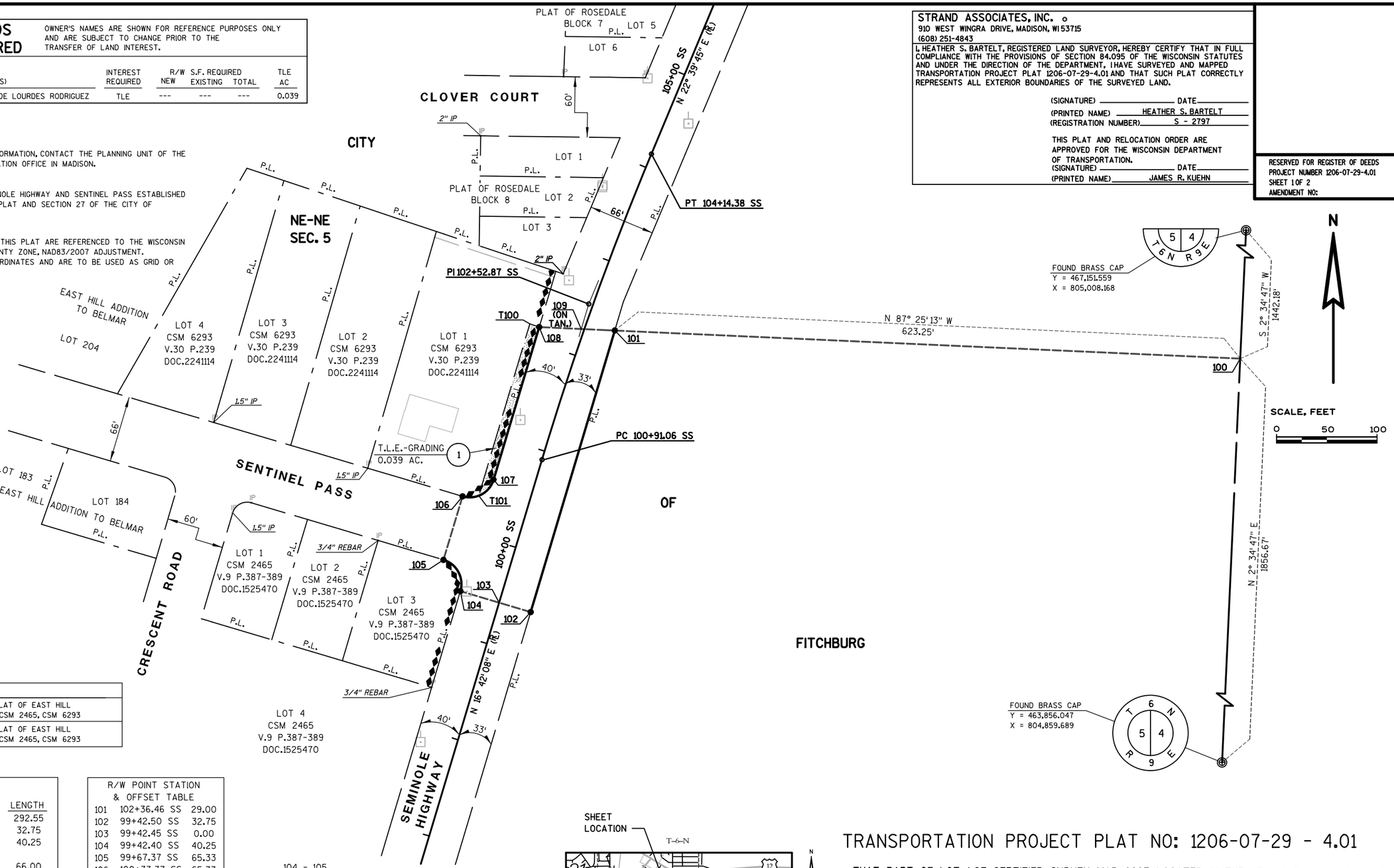
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	TLE AC
1	RUBEN E. ZUNINGA & MA DE LOURDES RODRIGUEZ	TLE	---	---	---	0.039

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

EXISTING ACCESS CONTROL ALONG SEMINOLE HIGHWAY AND SENTINEL PASS ESTABLISHED FROM EAST HILL ADDITION TO BELMAR PLAT AND SECTION 27 OF THE CITY OF FITCHBURG ORDINANCES.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.



HWY	BASIS OF EXIST. R/W
SEMINOLE HGIHWAY	PLAT OF ROSEDALE, PLAT OF EAST HILL ADDITION TO BELMAR, CSM 2465, CSM 6293
SENTINEL PASS	PLAT OF ROSEDALE, PLAT OF EAST HILL ADDITION TO BELMAR, CSM 2465, CSM 6293

R/W COURSE TABLE

COURSE	BEARING	LENGTH
101 - 102	S 16° 37' 42" W	292.55
102 - 103	N 73° 22' 18" W	32.75
103 - 104	N 73° 22' 18" W	40.25
104 - 105	SEE CURVE NOTE	
105 - 106	N 16° 41' 55" E	66.00
106 - 107	SEE CURVE NOTE	
107 - 108	N 16° 37' 42" E (S 16° 11' 27" W)	158.28
108 - 109	S 87° 25' 13" E	41.87
109 - 101	S 87° 25' 13" E	33.38

R/W POINT STATION & OFFSET TABLE

101	102+36.46 SS	29.00
102	99+42.50 SS	32.75
103	99+42.45 SS	0.00
104	99+42.40 SS	40.25
105	99+67.37 SS	65.33
106	100+33.37 SS	65.33
107	100+58.40 SS	40.40
108	102+15.00 SS	43.11
109	102+26.82 SS	2.97

T.L.E. STATION & OFFSET TABLE

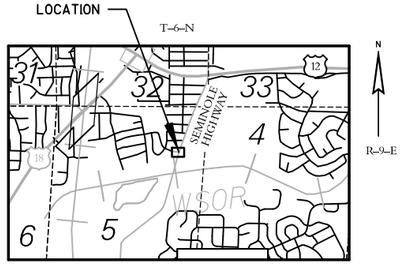
T100	102+15.00	53.00
T101	100+38.68	50.00

104 - 105
L. 39.23'
R. 25.00'
L.C. 35.33'
L.C.B. N 61° 34' 54" E

106 - 107
L. 39.31'
R. 25.00'
L.C. 35.38'
L.C.B. N 28° 25' 06" W

P.I. = 102+52.87 SS
Y = 465,765.262
X = 804,294.756
DELTA = 5° 57' 37" (RT)
D = 1° 50' 37"
T = 161.80'
L = 323.31'
R = 3,108.00'
P.C. = 100+91.06 SS
P.T. = 104+14.38 SS

SHEET LOCATION



STRAND ASSOCIATES, INC. ®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1206-07-29-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S - 2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) JAMES R. KUEHN

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1206-07-29-4.01
SHEET 1 OF 2
AMENDMENT NO:

TRANSPORTATION PROJECT PLAT NO: 1206-07-29 - 4.01

THAT PART OF LOT 1 OF CERTIFIED SURVEY MAP 6293 LOCATED IN THE NE 1/4 OF THE NE 1/4 OF SECTION 5, T6N, R9E, CITY OF FITCHBURG, DANE COUNTY, WISCONSIN.

RELOCATION ORDER USH 18 DANE COUNTY MOUNT HOREB - MADISON (LOCAL ROAD INTERSECTIONS)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FILE NAME : S:\MAD\1000--1099\1089\329\Micros\TPP\040101_rp.dgn
PLOT DATE : 6/13/2012
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
APPRAISAL PLAT DATE :

4.01

TRANSPORTATION PROJECT PLAT NO: 1206-07-29 - 4.02

THAT PART OF LOTS 1 AND 2 OF CERTIFIED SURVEY MAP 8023, AND PART OF THE SE¼ OF THE SW¼ OF SECTION 8; ALSO PART OF THE NE¼ OF THE NW¼ OF SECTION 17, ALL IN T6N, R9E, CITY OF FITCHBURG, DANE COUNTY, WISCONSIN.

RELOCATION ORDER USH 18 DANE COUNTY MOUNT HOREB - MADISON (LOCAL ROAD INTERSECTIONS)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

STRAND ASSOCIATES, INC. ®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1206-07-29-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S - 2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) JAMES R. KUEHN

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1206-07-29-4.02
AMENDMENT NO:

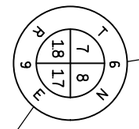
FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER AND FILED IN XXXXXXX.

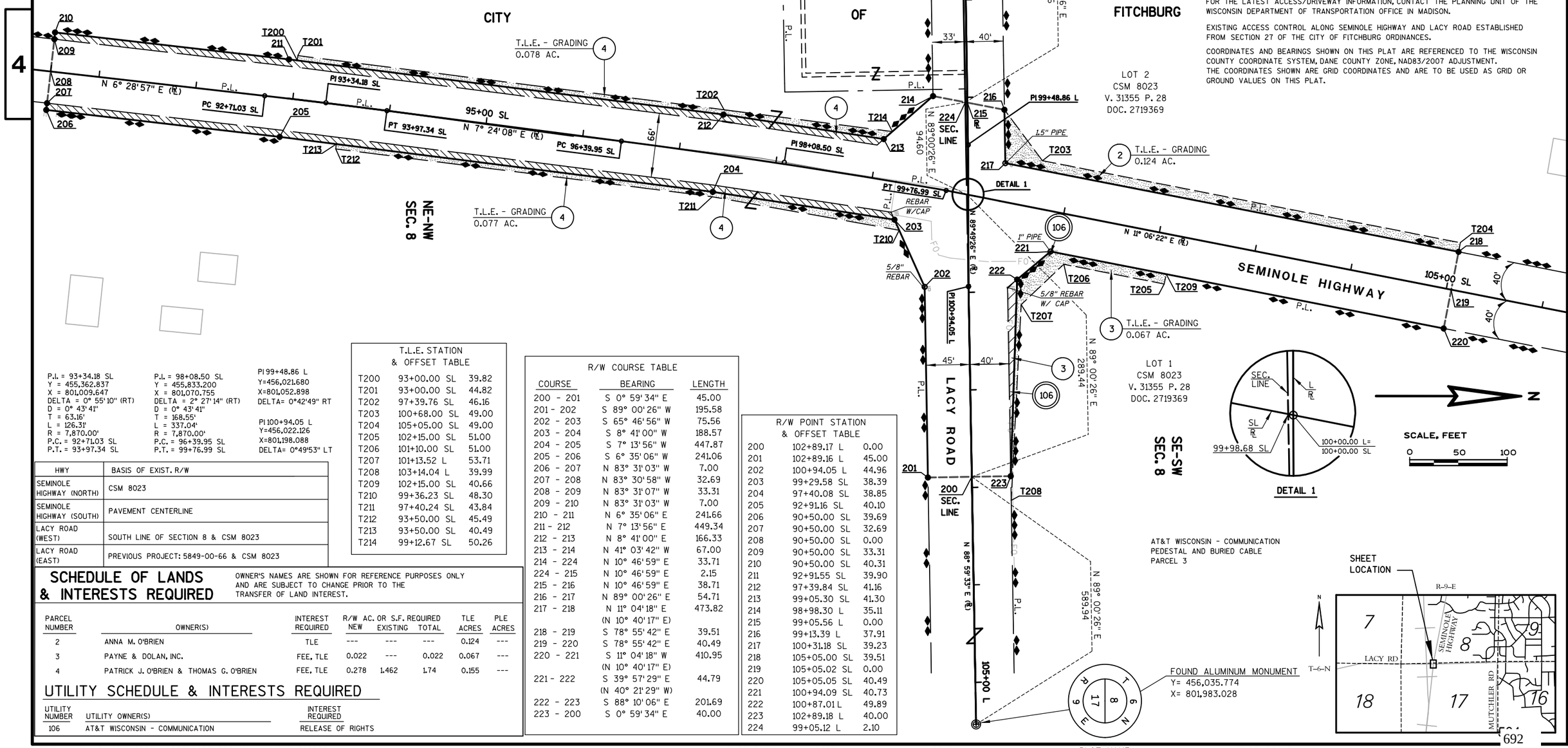
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

EXISTING ACCESS CONTROL ALONG SEMINOLE HIGHWAY AND LACY ROAD ESTABLISHED FROM SECTION 27 OF THE CITY OF FITCHBURG ORDINANCES.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

FOUND ALUMINUM MONUMENT
Y= 455,990.403
X= 799,364.487





DETAIL 1

LOT 2
CSM 8023
V. 31355 P. 28
DOC. 2719369

LOT 1
CSM 8023
V. 31355 P. 28
DOC. 2719369

AT&T WISCONSIN - COMMUNICATION
PEDESTAL AND BURIED CABLE
PARCEL 3

FOUND ALUMINUM MONUMENT
Y= 456,035.774
X= 801,983.028

SHEET LOCATION

P.I. = 93+34.18 SL
Y = 455,362.837
X = 801,009.647
DELTA = 0° 55' 10" (RT)
D = 0° 43' 41"
T = 63.16'
L = 126.31'
R = 7,870.00'
P.C. = 92+71.03 SL
P.T. = 93+97.34 SL

P.I. = 98+08.50 SL
Y = 455,833.200
X = 801,070.755
DELTA = 2° 27' 14" (RT)
D = 0° 43' 41"
T = 168.55'
L = 337.04'
R = 7,870.00'
P.C. = 96+39.95 SL
P.T. = 99+76.99 SL

PI 99+48.86 L
Y=456,021.680
X=801,052.898
DELTA= 0°42'49" RT

PI 100+94.05 L
Y=456,022.126
X=801,198.088
DELTA= 0°49'53" LT

HWY	BASIS OF EXIST. R/W
SEMINOLE HIGHWAY (NORTH)	CSM 8023
SEMINOLE HIGHWAY (SOUTH)	PAVEMENT CENTERLINE
LACY ROAD (WEST)	SOUTH LINE OF SECTION 8 & CSM 8023
LACY ROAD (EAST)	PREVIOUS PROJECT: 5849-00-66 & CSM 8023

T.L.E. STATION & OFFSET TABLE

T200	93+00.00 SL	39.82
T201	93+00.00 SL	44.82
T202	97+39.76 SL	46.16
T203	100+68.00 SL	49.00
T204	105+05.00 SL	49.00
T205	102+15.00 SL	51.00
T206	101+10.00 SL	51.00
T207	101+13.52 L	53.71
T208	103+14.04 L	39.99
T209	102+15.00 SL	40.66
T210	99+36.23 SL	48.30
T211	97+40.24 SL	43.84
T212	93+50.00 SL	45.49
T213	93+50.00 SL	40.49
T214	99+12.67 SL	50.26

R/W COURSE TABLE

COURSE	BEARING	LENGTH
200 - 201	S 0° 59' 34" E	45.00
201 - 202	S 89° 00' 26" W	195.58
202 - 203	S 65° 46' 56" W	75.56
203 - 204	S 8° 41' 00" W	188.57
204 - 205	S 7° 13' 56" W	447.87
205 - 206	S 6° 35' 06" W	241.06
206 - 207	N 83° 31' 03" W	7.00
207 - 208	N 83° 30' 58" W	32.69
208 - 209	N 83° 31' 07" W	33.31
209 - 210	N 83° 31' 03" W	7.00
210 - 211	N 6° 35' 06" E	241.66
211 - 212	N 7° 13' 56" E	449.34
212 - 213	N 8° 41' 00" E	166.33
213 - 214	N 41° 03' 42" W	67.00
214 - 224	N 10° 46' 59" E	33.71
224 - 215	N 10° 46' 59" E	2.15
215 - 216	N 10° 46' 59" E	38.71
216 - 217	N 89° 00' 26" E	54.71
217 - 218	N 11° 04' 18" E (N 10° 40' 17" E)	473.82
218 - 219	S 78° 55' 42" E	39.51
219 - 220	S 78° 55' 42" E	40.49
220 - 221	S 11° 04' 18" W (N 10° 40' 17" E)	410.95
221 - 222	S 39° 57' 29" E (N 40° 21' 29" W)	44.79
222 - 223	S 88° 10' 06" E	201.69
223 - 200	S 0° 59' 34" E	40.00

R/W POINT STATION & OFFSET TABLE

200	102+89.17 L	0.00
201	102+89.16 L	45.00
202	100+94.05 L	44.96
203	99+29.58 SL	38.39
204	97+40.08 SL	38.85
205	92+91.16 SL	40.10
206	90+50.00 SL	39.69
207	90+50.00 SL	32.69
208	90+50.00 SL	0.00
209	90+50.00 SL	33.31
210	90+50.00 SL	40.31
211	92+91.55 SL	39.90
212	97+39.84 SL	41.16
213	99+05.30 SL	41.30
214	98+98.30 L	35.11
215	99+05.56 L	0.00
216	99+13.39 L	37.91
217	100+31.18 SL	39.23
218	105+05.00 SL	39.51
219	105+05.02 SL	0.00
220	105+05.05 SL	40.49
221	100+94.09 SL	40.73
222	100+87.01 L	49.89
223	102+89.18 L	40.00
224	99+05.12 L	2.10

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
2	ANNA M. O'BRIEN	TLE	---	---	---	0.124	---
3	PAYNE & DOLAN, INC.	FEE, TLE	0.022	---	0.022	0.067	---
4	PATRICK J. O'BRIEN & THOMAS G. O'BRIEN	FEE, TLE	0.278	1.462	1.74	0.155	---

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
106	AT&T WISCONSIN - COMMUNICATION	RELEASE OF RIGHTS

FILE NAME : S:\MAD\1000--1099\1089\329\Micros\TPP\040102_rp.dgn
PLOT DATE : 6/13/2012
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
APPRAISAL PLAT DATE :

4.02

R/W COURSE TABLE		
COURSE	BEARING	LENGTH
300 - 301	S 10° 31' 53" W	4.61
301 - 302	S 10° 31' 53" W	28.76
302 - 303	S 11° 05' 38" W	399.04
303 - 304	N 44° 07' 11" W	42.70
304 - 305	N 44° 07' 11" W	37.66
305 - 306	S 89° 35' 05" W	20.41
306 - 307	N 11° 05' 38" E	328.58
307 - 308	N 44° 38' 47" W	11.26
308 - 309	S 89° 26' 03" W	41.99
309 - 325	N 2° 15' 39" E	31.96
325 - 310	N 2° 15' 39" E	3.46
310 - 311	N 2° 15' 39" E	30.66
311 - 312	N 49° 24' 57" E (S 49° 51' 00" W)	85.34
312 - 313	N 11° 06' 00" E (S 10° 40' 00" W)	68.11
313 - 314	SEE CURVE NOTE	
314 - 315	S 82° 20' 32" E	61.28
315 - 316	S 82° 20' 32" E	58.72
316 - 317	SEE CURVE NOTE	
317 - 318	S 89° 26' 05" W (S 89° 02' 20" W)	27.55
318 - 319	S 11° 06' 00" W	86.00
319 - 300	S 10° 31' 23" W	33.89

P.L.E. COURSE TABLE		
306 - P304	N 11° 05' 38" E	321.39
307 - P304	S 11° 05' 38" W	7.19
P304 - P305	N 87° 28' 27" W	32.81
P305 - P306	N 00° 00' 00" W	13.36
P306 - 308	N 89° 26' 03" E	26.26
302 - P300	S 11° 05' 38" W	12.80
P300 - P301	S 87° 28' 27" E	15.60
P301 - P302	S 10° 50' 19" W	10.11
P302 - P303	N 87° 28' 27" W	15.65
P303 - P300	N 11° 05' 38" E	10.11
P303 - 303	S 11° 05' 38" W	376.13

R/W POINT STATION & OFFSET TABLE		
300	100+11.67 FHW	36.45
301	100+07.06 FHW	36.47
302	99+78.31 FHW	36.62
303	95+79.29 FHW	34.97
304	96+03.79 FHW	0.00
305	96+25.41 FHW	30.84
306	96+21.42 FHW	50.86
307	99+50.00 FHW	49.50
308	99+56.38 FHW	58.78
309	98+92.01 WFH	31.93
310	98+93.49 WFH	3.45
311	98+94.77 WFH	34.09
312	100+80.15 FHW	56.58
313	101+48.26 FHW	56.27
314	103+43.96 FHW	58.27
315	103+44.42 FHW	3.00
316	103+44.85 FHW	61.72
317	101+37.01 FHW	63.67
318	101+31.56 FHW	36.66
319	100+45.56 FHW	36.27
325	98+93.34 WFH	0.00

T.L.E. POINT STATION & OFFSET TABLE		
T300	99+81.35 FHW	51.73
T303	95+79.34 FHW	50.31
T305	97+30.00 FHW	50.41
T306	97+80.00 FHW	58.00
T307	99+10.00 FHW	49.67
T308	99+20.00 FHW	49.63
T310	100+64.32 FHW	69.20
T311	101+10.78 FHW	64.65
T312	101+59.84 FHW	78.89
T313	102+23.26 FHW	79.07
T314	102+98.76 FHW	62.78
T315	103+43.94 FHW	63.04

P.L.E. POINT STATION & OFFSET TABLE		
P300	99+65.51 FHW	36.56
P301	99+67.76 FHW	52.00
P302	99+57.68 FHW	52.00
P303	99+55.41 FHW	36.52
P304	99+42.81 FHW	49.53
P305	99+07.71 WFH	45.18
P306	99+07.74 WFH	31.82

STRAND ASSOCIATES, INC. ®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1206-07-29-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S - 2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) JAMES R. KUEHN

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1206-07-29-4.03
AMENDMENT NO:

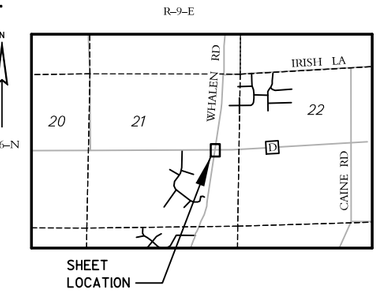
FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER _____ AND FILED IN XXXXXXX.

MADISON GAS AND ELECTRIC COMPANY (MG&E) - ELECTRIC
2-POWER POLES - PARCEL 8
EASEMENT - DOC.4727370 - PARCEL 8

FRONTIER COMMUNICATIONS OF WISCONSIN LLC.
BURIED CABLE - PARCEL 7

AMERICAN TRANSMISSION COMPANY, LLC. (ATC)
EASEMENT - DOC.4649615 - PARCEL 8
POWER POLE - PARCEL 8
EASEMENT - DOC.4588708 - PARCEL 7

CHARTER COMMUNICATIONS
BURIED CABLE - PARCEL 7
BURIED CABLE - PARCEL 8



HWY	BASIS OF EXIST. R/W
C.T.H. D (NORTH)	CSM 3693, CSM 4634 CSM 12499
C.T.H. D (SOUTH)	PAVEMENT CENTERLINE AND FOUND IRONS OF RECORD
WHALEN ROAD	COUNTRY HEIGHTS PLAT, CSM 3693, CSM 4634

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

EXISTING ACCESS CONTROL ALONG CTH D AND WHALEN ROAD ESTABLISHED FROM SECTION 27 OF THE CITY OF FITCHBURG ORDINANCES, CSM 3693, AND CSM 12499.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

FOUND ALUMINUM MONUMENT
Y= 448,136.318
X= 809,765.919

TRANSPORTATION PROJECT PLAT NO: 1206-07-29 - 4.03

THAT PART OF LOT 1 OF CERTIFIED SURVEY MAP 3693 LOCATED IN THE SE ¼ OF THE NE ¼ AND PART OF THE NE ¼ OF THE SE ¼ ALL IN SECTION 21, T6N, R9E, CITY OF FITCHBURG, DANE COUNTY, WISCONSIN.

RELOCATION ORDER USH 18 DANE COUNTY MOUNT HOREB - MADISON (LOCAL ROAD INTERSECTIONS)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

P.I. 95+76.99 FHW
Y= 447,709.088
X= 808,914.282
DELTA= 0° 10' 31" RT

P.I. 99+60.68 FHW
Y= 448,085.911
X= 808,986.558
DELTA= 0° 07' 37" LT

P.I. 100+44.04 FHW
Y= 448,167.780
X= 809,002.221
DELTA= 0° 27' 00" RT

P.I. 106+45.30 FHW
Y= 448,762.649
X= 809,085.857
DELTA= 0° 27' 32" LT

313 - 314
L. 192.95'
R. 3,214.04
L.C. 192.92'
L.C.B. N 9° 22' 39" E

P.I. = 103+50.53 FHW
Y = 448,468.807
X = 809,059.852
DELTA = 5° 46' 50" (LT)
D = 2° 12' 47"
T = 130.71'
L = 261.21'
R = 2,589.00'
P.C. = 102+19.82 FHW
P.T. = 104+81.02 FHW

316 - 317
L. 210.86'
R. 3,334.04'
L.C. 210.83'
L.C.B. S 9° 28' 10" W

P.I. 96+60.42 WFH
Y= 448,123.736
X= 808,654.365

100+69.17 WFH
Y= 448,124.681
X= 809,063.110
DELTA= 0° 47' 34" LT

SCHEDULE OF LANDS & INTERESTS REQUIRED

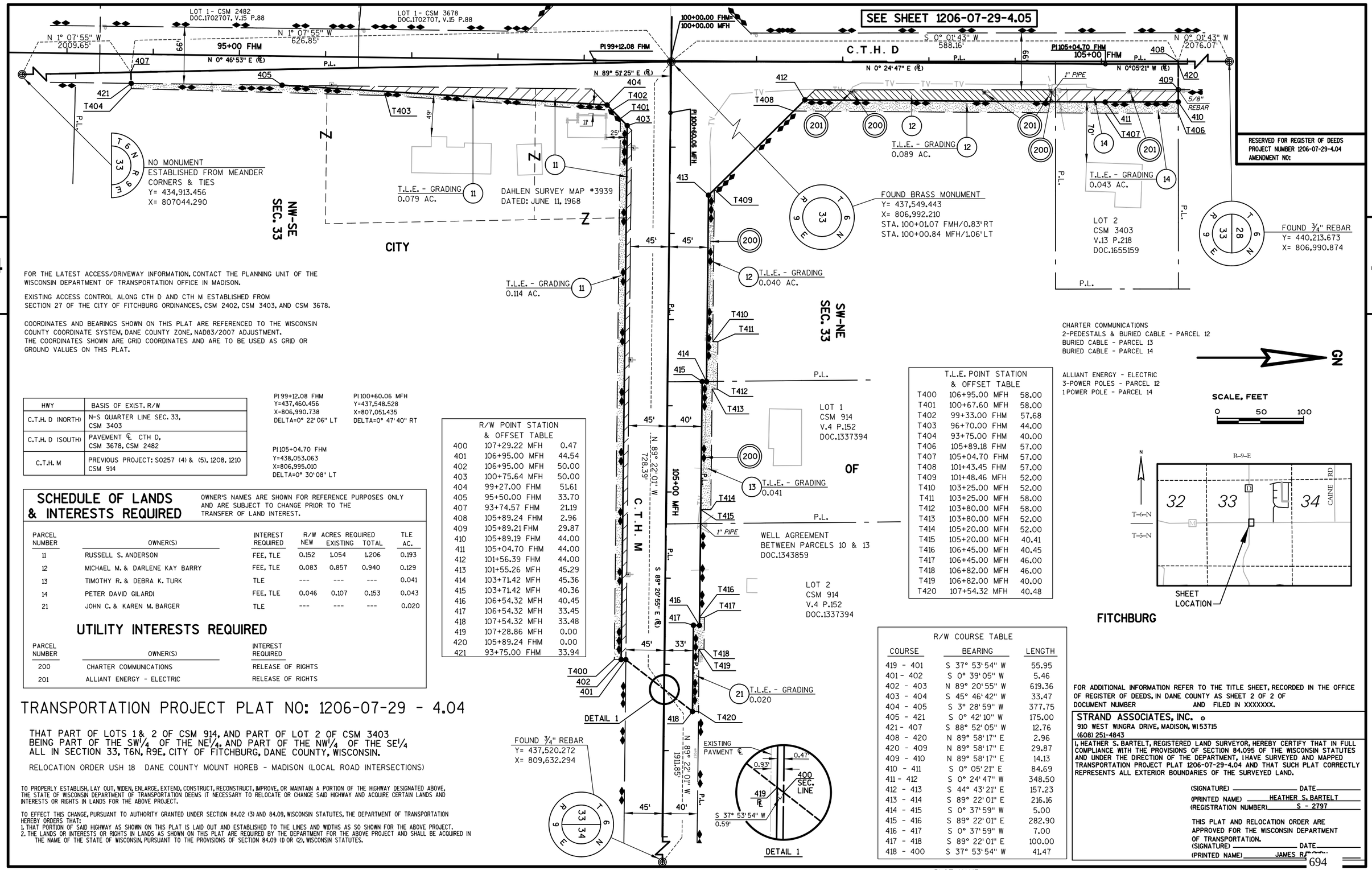
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W AC. OR S.F. REQUIRED NEW	EXISTING	TOTAL	TLE ACRES	PLE ACRES
7	CHARLES LANDRY	FEE, PLE, TLE	0.156	0.343	0.499	0.026	0.010
8	KEVIN P. GORMAN	PLE, TLE	---	---	---	0.138	0.004
9	COLLEEN G. HAAS	TLE	---	---	---	0.087	---

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
102	MADISON GAS & ELECTRIC COMPANY (MG&E) - ELECTRIC	RELEASE OF RIGHTS
122	AMERICAN TRANSMISSION COMPANY, LLC. (ATC)	RELEASE OF RIGHTS
200	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
202	FRONTIER COMMUNICATIONS OF WISCONSIN LLC.	RELEASE OF RIGHTS

SCALE, FEET
0 50 100
GN



FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

EXISTING ACCESS CONTROL ALONG CTH D AND CTH M ESTABLISHED FROM SECTION 27 OF THE CITY OF FITCHBURG ORDINANCES, CSM 2402, CSM 3403, AND CSM 3678.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

HWY	BASIS OF EXIST. R/W
C.T.H. D (NORTH)	N-S QUARTER LINE SEC. 33, CSM 3403
C.T.H. D (SOUTH)	PAVEMENT ℄ CTH D, CSM 3678, CSM 2482
C.T.H. M	PREVIOUS PROJECT: S0257 (4) & (5), 1208, 1210 CSM 914

P.I 99+12.08 FHM
Y=437,460.456
X=806,990.738
DELTA=0° 22' 06" LT

P.I 100+60.06 MFH
Y=437,548.528
X=807,051.435
DELTA=0° 47' 40" RT

P.I 105+04.70 FHM
Y=438,053.063
X=806,995.010
DELTA=0° 30' 08" LT

R/W POINT STATION & OFFSET TABLE		
400	107+29.22 MFH	0.47
401	106+95.00 MFH	44.54
402	106+95.00 MFH	50.00
403	100+75.64 MFH	50.00
404	99+27.00 FHM	51.61
405	95+50.00 FHM	33.70
407	93+74.57 FHM	21.19
408	105+89.24 FHM	2.96
409	105+89.21 FHM	29.87
410	105+89.19 FHM	44.00
411	105+04.70 FHM	44.00
412	101+56.39 FHM	44.00
413	101+55.26 MFH	45.29
414	103+71.42 MFH	45.36
415	103+71.42 MFH	40.36
416	106+54.32 MFH	40.45
417	106+54.32 MFH	33.45
418	107+54.32 MFH	33.48
419	107+28.86 MFH	0.00
420	105+89.24 FHM	0.00
421	93+75.00 FHM	33.94

T.L.E. POINT STATION & OFFSET TABLE		
T400	106+95.00 MFH	58.00
T401	100+67.60 MFH	58.00
T402	99+33.00 FHM	57.68
T403	96+70.00 FHM	44.00
T404	93+75.00 FHM	40.00
T406	105+89.18 FHM	57.00
T407	105+04.70 FHM	57.00
T408	101+43.45 FHM	57.00
T409	101+48.46 MFH	52.00
T410	103+25.00 MFH	52.00
T411	103+25.00 MFH	58.00
T412	103+80.00 MFH	58.00
T413	103+80.00 MFH	52.00
T414	105+20.00 MFH	52.00
T415	105+20.00 MFH	40.41
T416	106+45.00 MFH	40.45
T417	106+45.00 MFH	46.00
T418	106+82.00 MFH	46.00
T419	106+82.00 MFH	40.00
T420	107+54.32 MFH	40.48

R/W COURSE TABLE		
COURSE	BEARING	LENGTH
419 - 401	S 37° 53' 54" W	55.95
401 - 402	S 0° 39' 05" W	5.46
402 - 403	N 89° 20' 55" W	619.36
403 - 404	S 45° 46' 42" W	33.47
404 - 405	S 3° 28' 59" W	377.75
405 - 421	S 0° 42' 10" W	175.00
421 - 407	S 88° 52' 05" W	12.76
408 - 420	N 89° 58' 17" E	2.96
420 - 409	N 89° 58' 17" E	29.87
409 - 410	N 89° 58' 17" E	14.13
410 - 411	S 0° 05' 21" E	84.69
411 - 412	S 0° 24' 47" W	348.50
412 - 413	S 44° 43' 21" E	157.23
413 - 414	S 89° 22' 01" E	216.16
414 - 415	S 0° 37' 59" W	5.00
415 - 416	S 89° 22' 01" E	282.90
416 - 417	S 0° 37' 59" W	7.00
417 - 418	S 89° 22' 01" E	100.00
418 - 400	S 37° 53' 54" W	41.47

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE AC.
11	RUSSELL S. ANDERSON	FEE, TLE	0.152	1.054	1.206	0.193
12	MICHAEL M. & DARLENE KAY BARRY	FEE, TLE	0.083	0.857	0.940	0.129
13	TIMOTHY R. & DEBRA K. TURK	TLE	---	---	---	0.041
14	PETER DAVID GILARDI	FEE, TLE	0.046	0.107	0.153	0.043
21	JOHN C. & KAREN M. BARGER	TLE	---	---	---	0.020

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
200	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
201	ALLIANT ENERGY - ELECTRIC	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 1206-07-29 - 4.04

THAT PART OF LOTS 1 & 2 OF CSM 914, AND PART OF LOT 2 OF CSM 3403 BEING PART OF THE SW1/4 OF THE NE1/4, AND PART OF THE NW1/4 OF THE SE1/4 ALL IN SECTION 33, T6N, R9E, CITY OF FITCHBURG, DANE COUNTY, WISCONSIN.

RELOCATION ORDER USH 18 DANE COUNTY MOUNT HOREB - MADISON (LOCAL ROAD INTERSECTIONS)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER AND FILED IN XXXXXXX.

STRAND ASSOCIATES, INC. ®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1206-07-29-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE _____
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S - 2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE _____
(PRINTED NAME) JAMES R...

FILE NAME : S:\MAD\1000--1099\1089\329\Micros\TPP\040104_rp.dgn
PLOT DATE : 6/13/2012
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 1206-07-29 - 4.05

THAT PART OF LOT 1 OF CSM 3678 AND PART OF LOT 1 OF CSM 2482 BEING IN THE NE¼ OF THE SW¼ AND PART OF THE SE¼ OF THE NW¼ ALL IN SECTION 33, T6N, R9E, CITY OF FITCHBURG, DANE COUNTY, WISCONSIN.

RELOCATION ORDER USH 18 DANE COUNTY MOUNT HOREB - MADISON (LOCAL ROAD INTERSECTIONS)

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

R/W COURSE TABLE

COURSE	BEARING	LENGTH
500 - 501	N 0° 39' 12" E	31.85
501 - 517	S 89° 43' 28" E	148.24
517 - 519	S 89° 20' 29" E	11.76
519 - 502	N 0° 08' 35" W	13.38
502 - 503	S 88° 58' 08" E	351.07
503 - 504	N 44° 49' 55" E	18.39
504 - 505	N 28° 55' 10" E	47.29
505 - 506	N 0° 24' 47" E	404.50
506 - 507	N 0° 05' 21" W	165.11
507 - 508	N 89° 54' 39" E	7.95
508 - 518	N 0° 01' 43" W	35.00
518 - 509	N 89° 58' 17" E	33.17
510 - 521	S 88° 52' 05" W	17.79
521 - 520	S 88° 52' 05" W	32.21
520 - 511	N 0° 42' 10" E	163.12
511 - 516	N 84° 39' 43" W	8.61
516 - 512	N 0° 46' 53" E	202.80
512 - 513	N 44° 45' 03" W (S 45° 09' 12" E)	159.51
513 - 514	S 89° 47' 54" W	436.19
514 - 515	N 0° 39' 12" E	45.01
515 - 500	N 0° 39' 12" E	8.88

FRONTIER COMMUNICATIONS OF WISCONSIN LLC.
BURIED CABLE - PARCELS 17, 18

AMERICAN TRANSMISSION COMPANY LLC. (ATC)
EASEMENT - DOC.4655739 - PARCEL 17
EASEMENT - DOC.4488014 - PARCEL 18

ALLIANT ENERGY - ELECTRIC
1 POWER POLE - PARCEL 16
1 POWER POLE - PARCEL 17
2 POWER POLES - PARCEL 18

FOUND BROKEN ALUMINUM MONUMENT
Y= 437,579.178
X= 804,384.515

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

EXISTING ACCESS CONTROL ALONG CTH D AND CTH M ESTABLISHED FROM SECTION 27 OF THE CITY OF FITCHBURG ORDINANCES, CSM 2402, CSM 3403, AND CSM 3678.

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

STRAND ASSOCIATES, INC. ®
910 WEST WINGRA DRIVE, MADISON, WI 53715
(608) 251-4843

I, HEATHER S. BARTELT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1206-07-29-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE_____
(PRINTED NAME) HEATHER S. BARTELT
(REGISTRATION NUMBER) S - 2797

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.
(SIGNATURE) _____ DATE_____
(PRINTED NAME) JAMES R. KUEHN

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS, IN DANE COUNTY AS SHEET 2 OF 2 OF DOCUMENT NUMBER _____ AND FILED IN XXXXXXX.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1206-07-29-4.05
AMENDMENT NO:

R/W POINT STATION & OFFSET TABLE

500	94+09.56 MFH	9.28
501	94+10.00 MFH	41.13
502	95+70.00 MFH	53.27
503	99+21.00 MFH	46.07
504	100+58.44 FHM	66.57
505	101+00.00 FHM	44.00
506	105+04.50 FHM	44.00
507	106+70.00 FHM	44.00
508	106+70.00 FHM	36.05
509	107+04.97 FHM	2.84
510	94+76.67 FHM	17.78
511	96+38.12 FHM	32.42
512	98+41.61 FHM	41.00
513	98+45.00 MFH	44.16
514	94+08.81 MFH	44.60
515	94+09.43 MFH	0.40
516	96+38.81 FHM	41.00
517	95+58.24 MFH	40.05
518	107+05.00 FHM	36.01
519	95+70.00 MFH	39.88
520	94+75.00 FHM	32.19
521	94+76.08 FHM	0.00

T.L.E. STATION & OFFSET TABLE

T500	100+45.40 FHM	88.44
T501	100+70.00 FHM	65.00
T502	101+00.00 FHM	52.00
T503	105+04.47 FHM	52.00
T504	107+05.00 FHM	52.00
T505	107+05.00 FHM	36.01
T506	94+75.00 FHM	32.19
T507	94+75.00 MFH	40.00
T508	96+50.00 FHM	46.00
T509	98+46.51 FHM	46.00
T510	95+50.00 MFH	44.46
T511	95+50.00 MFH	50.00
T512	95+25.00 MFH	50.00
T513	96+25.00 FHM	40.00
T514	95+25.00 MFH	44.48
T515	94+10.00 MFH	46.00
T516	95+70.00 MFH	46.00

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE AC.
16	BARY & MARY BOTHUN	TLE	---	---	---	0.029
17	THOMAS R. & SHELLEY J. BARRY	FEE, TLE	0.039	0.745	0.784	0.026
18	RICHARD R. MACKENZIE	FEE, TLE	0.226	0.990	1.216	0.146

UTILITY INTERESTS REQUIRED

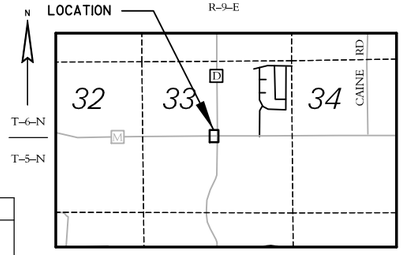
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
122	AMERICAN TRANSMISSION COMPANY, LLC. (ATC)	RELEASE OF RIGHTS
201	ALLIANT ENERGY - ELECTRIC	RELEASE OF RIGHTS
202	FRONTIER COMMUNICATIONS OF WISCONSIN LLC.	RELEASE OF RIGHTS

PI 99+12.08 FHM
Y=437,460.456
X=806,990.738
DELTA=0° 22' 06" LT

PI 100+60.06 MFH
Y=437,548.528
X=807,051.435
DELTA=0° 47' 40" RT

PI 105+04.70 FHM
Y=438,053.063
X=806,995.010
DELTA=0° 30' 08" LT

SHEET LOCATION



HWY	BASIS OF EXIST. R/W
C.T.H. D (NORTH)	N-S QUARTER LINE SEC. 33, CSM 3403
C.T.H. D (SOUTH)	PAVEMENT ℄ CTH D, CSM 3678, CSM 2482
C.T.H. M	PREVIOUS PROJECT: S0257 (4) & (5), 1208, 1210 CSM 3678

FOUND BRASS MONUMENT
Y= 437,549.443
X= 806,992.210
STA. 100+01.07 FMH/0.83' RT
STA. 100+00.84 MFH/1.06' LT

FOUND ¾" REBAR
Y= 440,213.673
X= 806,990.874

SCALE, FEET
0 50 100

GN

NO MONUMENT
ESTABLISHED FROM MEANDER CORNERS & TIES
Y= 434,913.456
X= 807044.290

LOT 1 CSM 2482 V.10 P.7 DOC.1527832

LOT 1 CSM 3678 V.15 P.88 DOC.1702707

ACCESS EASEMENT DOC. 2557128 PARCEL 17

ATC 80' EASE DOC.4488014

C.T.H. M

C.T.H. D

NE-SW SEC. 33

SE-NW SEC. 33

CITY OF FITCHBURG

95+00 FHM

100+00.00 FHM=
100+00.00 MFH

PI 99+12.08 FHM

PI 100+60.06 MFH

105+00 FHM

PI 105+04.70 FHM

STA. 101+08.76
℄ = SEC. LINE

3/4" REBAR

1" PIPE

N 0° 46' 53" E (℄)

N 1° 07' 55" W 524.70'

N 1° 07' 55" W 2111.80'

N 0° 24' 47" E (℄)

N 0° 01' 43" W 703.88'

S 0° 01' 43" E 1960.35'

N 0° 05' 21" W (℄)

S 89° 20' 48" E 591.34'

S 89° 20' 48" E 2016.52'

N 89° 51' 25" E (℄)

SEE SHEET 1206-07-29-4.04

LOT 2 - CSM 3403 DOC.1655159, V.13 P.218

LOT 1 - CSM 3403 DOC.1655159, V.13 P.218

FILE NAME : S:\MAD\1000--1099\1089\329\Micros\TPP\040105_rp.dgn
PLOT DATE : 6/13/2012
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
APPRAISAL PLAT DATE :

4.05

DATE: JUNE 13, 2012

REVISION DATE :

TRANSPORTATION PROJECT PLAT NO: 1206-07-29 - 4.06

RELOCATION ORDER USH 18 DANE COUNTY MOUNT HOREB - MADISON (LOCAL ROAD INTERSECTIONS)

R/W MONUMENT POINT NUMBER AND COORDINATE TABLE

4

R/W MONUMENT POINT COORDINATE TABLE - 4.01		
POINT	Y	X
100	465710.840	804943.257
101	465738.892	804320.639
102	465458.575	804236.922
103	465467.946	804205.544
104	465479.465	804166.975
105	465510.585	804150.135
106	465573.802	804169.100
107	465590.614	804200.170
108	465742.279	804245.464
109	465740.394	804287.294

R/W MONUMENT POINT COORDINATE TABLE - 4.02		
POINT	Y	X
200	456025.554	801393.178
201	455980.560	801393.957
202	455977.172	801198.408
203	455946.176	801129.495
204	455759.772	801101.027
205	455315.461	801044.644
206	455075.989	801016.999
207	455076.779	801010.044
208	455080.471	800977.562
209	455084.231	800944.466
210	455085.021	800937.510
211	455325.084	800965.223
212	455770.849	801021.791
213	455935.270	801046.902
214	455985.786	801002.894
215	456021.008	801009.601
216	456059.039	801016.845
217	456059.987	801071.548
218	456524.991	801162.538
219	456517.403	801201.317
220	456509.629	801241.049
221	456106.323	801162.132
222	456071.995	801190.895
223	456065.548	801392.485
224	456018.901	801009.200

R/W MONUMENT POINT COORDINATE TABLE - 4.03		
POINT	Y	X
300	448129.142	809031.938
301	448124.607	809031.095
302	448096.336	809025.839
303	447704.756	808949.057
304	447735.409	808919.331
305	447762.446	808893.112
306	447762.298	808872.702
307	448084.743	808935.928
308	448092.751	808928.018
309	448092.337	808886.025
310	448127.729	808887.423
311	448158.366	808888.632
312	448213.885	808953.443
313	448280.726	808966.557
314	448471.066	808997.991
315	448462.900	809058.721
316	448455.075	809116.920
317	448247.119	809082.234
318	448246.847	809054.683
319	448162.459	809038.127
325	448124.275	808887.286

P.L.E. MONUMENT POINT COORDINATE TABLE - 4.03		
POINT	Y	X
P300	448083.776	809023.377
P301	448083.089	809038.961
P302	448073.163	809037.061
P303	448073.852	809021.431
P304	448077.685	808934.545
P305	448079.131	808901.763
P306	448092.492	808901.763

R/W MONUMENT POINT COORDINATE TABLE - 4.04		
POINT	Y	X
400	437541.395	807720.557
401	437496.776	807685.825
402	437491.314	807685.762
403	437498.355	807066.439
404	437475.008	807042.450
405	437097.955	807019.501
407	436922.716	807004.592
408	438137.601	806991.915
409	438137.617	807024.744
410	438137.624	807038.879
411	438052.939	807039.010
412	437704.449	807036.498
413	437592.734	807147.136
414	437590.346	807363.284
415	437585.346	807363.229
416	437582.220	807646.111
417	437575.221	807646.034
418	437574.116	807746.028
419	437540.926	807720.192
420	438137.602	806994.879
421	436922.968	807017.355

R/W MONUMENT POINT COORDINATE TABLE - 4.05		
POINT	Y	X
500	437556.185	806400.908
501	437588.038	806401.271
502	437600.572	806561.240
503	437594.255	806912.257
504	437607.299	806925.225
505	437648.693	806948.094
506	438053.187	806951.010
507	438218.297	806950.753
508	438218.309	806958.703
509	438253.326	806991.857
510	437024.848	807002.575
511	437186.970	806954.588
512	437390.553	806948.781
513	437503.835	806836.480
514	437502.299	806400.293
515	437547.302	806400.807
516	437187.771	806946.015
517	437587.325	806549.513
518	438253.309	806958.686
519	437587.190	806561.274
520	437023.861	806952.587
521	437024.497	806984.793

4

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD83/2007 ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

FILE NAME : S:\MAD\1000--1099\1089\329\Micros\TPP\040106_rp.dgn

PLOT DATE : 6/13/2012

PLOT BY : _username_

PLOT NAME :

PLOT SCALE : $$.....plotscale.....$$

APPRAISAL PLAT DATE :

4.06

GAMMON ROAD WB EXIT RAMP

GRAND CANYON DRIVE

SLOPE INTERCEPTS (TYP.)

S-13-384

WB USH 12/14 (BELTLINE)

995+00 996+00 997+00 998+00 999+00 1000+00 1001+00 1002+00 1003+00 1004+00 1005+00 1006+00 1007+00 1008+00 1009+00 1010+00

MATCHLINE STA. 1010+00

EB USH 12/14 (BELTLINE)

GAMMON ROAD EB ENTRANCE RAMP

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN - USH 12/14 (BELTLINE)	SHEET 697	E

GRAND CANYON DRIVE

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1010+00

1010+00 1011+00 1012+00 1013+00 1014+00 1015+00 1016+00 1017+00 1018+00 1019+00 1020+00 1021+00 1022+00 1023+00 1024+00 1025

S-13-383

SLOPE INTERCEPTS (TYP.)

MATCHLINE STA. 1025+00

MATCHLINE

R/W

CAUTION

N

5

5

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN - USH 12/14 (BELTLINE)	SHEET 698	E

ODANA ROAD

BEGIN CONSTRUCTION
STA. 1025+00.92
SAWCUT REQ'D
MATCH EXISTING

SLOPE INTERCEPTS (TYP.)

R/W

CAUTION

S-13-395

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

ML 95

MATCHLINE STA. 1025+00

MATCHLINE STA. 1040+00

STA. 1025+89.4, 4.4' LT
REMOVING INLETS REQ'D
8-FEET REMOVING STORM SEWER 30-INCH REQ'D

STA. 1025+89.3, 0.7' RT
1 - INLETS MEDIAN 2 GRATE REQ'D (SINGLE SLOPE)
2 - INLET COVERS TYPE MS REQ'D
1 - 8-FEET SSPRC CLASS III 30-INCH REQ'D
1 - CONCRETE COLLARS FOR PIPE REQ'D
RIM ELEVATION = 1055.24
PIPE INLET ELEVATION = MATCH EXISTING (1046.91)
PIPE DISCHARGE ELEVATION = MATCH EXISTING (1046.83)

STA. 1035+00
CONSTRUCT MAINTENANCE
CROSSOVER FOR FREEWAYS

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN - USH 12/14 (BELTLINE)	SHEET 699	E

NOTE:
SEE STORM SEWER TABLES FOR MORE INFORMATION

ODANA ROAD

R/W

JBA ODANA ROAD LLC

JBA ODANA ROAD LLC

A & G JOINT VENTURE

SSS - ODANA ROAD LLC

MFDA BUILDING
A/C PARTNERSHIP LLP

P.L.

ML100.3 ML100.2 1043+00 ML100 ML100.1

ML105.3 ML105.2 1051+00 ML105 ML105.1

SLOPE INTERCEPTS (TYP.)

CAUTION

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1040+00

MATCHLINE STA. 1055+00

1041+00 1042+00 1043+00 1044+00 1045+00 1046+00 1047+00 1048+00 1049+00 1050+00 1051+00 1052+00 1053+00 1054+00

S-13-394

STA. 1042+45.7, 1.2' LT
REMOVING INLETS REQ'D
REMOVE 22' X 24" CPRC

STA. 1051+17.4, 2.6' LT
REMOVING INLETS REQ'D
REMOVE 11' X 24" CPRC
REMOVE 13' X 24" CPCM

GRAY MIDAMERICA
TELEVISION IC.

US GEOLOGICAL SURVEY
NATIONAL WILDLIFE HEALTH LAB

WELLINGTON GROUP LLC

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN - USH 12/14 (BELTLINE)	SHEET 700	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\050104_pp.dgn PLOT DATE : 2/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 44

NOTE:
SEE STORM SEWER TABLES FOR MORE INFORMATION

ODANA ROAD

MFDA BUILDING PARTNERSHIP LLP

MEDICAL CIRCLE

PROPOSED WHITNEY WAY BIKE PATH

YMCA OF DANE COUNTY

SLOPE INTERCEPTS (TYP.)

R/W

P.I.

CAUTION

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1055+00

MATCHLINE STA. 1070+00

1055+00 1056+00 1057+00 1058+00 1059+00 1060+00 1061+00 1062+00 1063+00 1064+00 1065+00 1066+00 1067+00 1068+00 1069+00 1070+00

67+00 L 68+00 L 69+00 L

STA. 1068+45.0
IE = 1003.75

MEDIUM RIPRAP
18" DEPTH

1069+00

ML115.3

ML115.1

ML115.2

12" SSPRC CLASS III

STA. 1068+50.0
IE = 1002.50

ML115

SLOTTED VANE
DRAIN TYPE A 6-FT

ML110.2

18" SSPRC CLASS III

1062+00

IE = 1014.11

STA. 1062+11.0
ELEVATION = 1016.05

4:1

4:1

ML110.3

ML110.1

STA. 1062+28.5
ELEVATION = 1015.50

24" SSPRC CLASS III

ML110

BELTLINE MADISON LLC

CAPITOL BELTLINE LLC

RIPRAP

BERM

RIPRAP

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN - USH 12/14 (BELTLINE)	SHEET 701	E

MEDICAL CIRCLE

YMCA OF DANE COUNTY INC

ALLRED, RUSSELL G. & CATHERINE E.

LEE, JANE K. & KAREN KIM

CITY OF MADISON PARKS ODANA HILLS PARK

N-13-4

PROPOSED WHITNEY WAY BIKE PATH

SLOPE INTERCEPTS (TYP.)

R/W

L RAMP

K RAMP

71+00 L
72+00 L
73+00 L
74+00 L
75+00 L
76+00 L
77+00 K
78+00 K
79+00 K
80+00 K
81+00 K
82+00 K
83+00 K
84+00 K
85

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE STA. 1070+00

1071+00
1072+00
1073+00
1074+00
1075+00
1076+00
1077+00
1078+00
1079+00
1080+00
1081+00
1082+00
1083+00
1084+00
1085

CAUTION

END CONSTRUCTION
STA. 1077+41.43
SAWCUT REQ'D
MATCH EXISTING

WHITNEY WAY EASTBOUND OFF-RAMP

WHITNEY WAY EASTBOUND ON-RAMP

SCHROEDER ROAD

S WHITNEY WAY

RIPRAP

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

FREEPORT ROAD
R/W
P.L.
STATE OF WISCONSIN DOT
CAUTION
SLOPE INTERCEPTS (TYP.)
SW COMMUTER PATH
DETENTION BASIN A
APPROXIMATE LIMITS OF SOIL CONTAMINATION (SEE CONTAMINATED SOILS DETAIL SHEET)
AMERCO REAL ESTATE COMPANY
R-13-204
APPROXIMATE EXISTING SOIL CAP LIMITS (SEE CONTAMINATED SOILS DETAIL SHEET)
TLE
BM 19
BM18
BM17
B-13-356 TO REMAIN
PROPOSED SOIL NAIL WALL
SHORING TO REMAIN IN PLACE
BM3
WEST VERONA ROAD FRONTAGE ROAD
WB USH 18/151 (VERONA ROAD)
971+00 VR
972+00 VR
973+00 VR
974+00 VR
975+00 VR
976+00 VR
977+00 VR
978+00 VR
979+00 VR
980+00 VR
981+00 VR
982+00 VR
983+00 VR
984+00 VR
985+00 VR
MATCHLINE STA. 985+00 VR
EB USH 18/151 (VERONA ROAD)
B-13-455 TO REMAIN
BM2
BM7
BM4
BEGIN CONSTRUCTION
STA. 975+15.27 VR
SAWCUT REQ'D
MATCH EXISTING
CAUTION
STATE OF WISCONSIN DOT
STATE OF WISCONSIN DOT
R/W
DAVIS HOLDINGS & PROPERTIES, LLC
BENCH MARKS
EAST VERONA ROAD FRONTAGE ROAD
BM6
TLE
PATRICK & SHARON FENTON
DANE COUNTY PARENT COUNCIL, INC.
THURSTON LANE
5H INVESTMENTS LLC
KWIK SOLUTIONS, LLC; DOUGLAS, STEVEN G.
DANE COUNTY PARENT COUNCIL, INC.
RED ARROW TRAIL
FRANCHISE REALTY INTERSTATE CORPORATION
FNB PROPERTIES, LLC
ROBERTS,JAMES & PATRICIA
BM9
JOHN A. MANGOLD, INC.

NO.	STATION	DESCRIPTION	ELEV.
2	971+49VR 60'RT	WISDOT DISK TOP OF CONC PARAPET	1033.81
3	975+07VR 63'LT	WISDOT DISK TOP OF CONC PARAPET	1031.27
4	980+33VR 66'RT	RR SPIKE E SIDE GAURD RAIL WOOD POST	1016.40
6	978+60VR 185'RT	CHIS SQ TOC N COR ASPH PARK LOT	1008.58
7	972+58VR 119'RT	CHIS SQ SW CORNER CONC PAD ATT PED	1013.22
9	982+50VR 368'RT	CHIS SQ TOC	1010.03
17	974+15VR 103'LT	TOP NUT HYD	1008.73
18	980+15VR 130'LT	RR SPIKE PPOL #20G7-B21	1000.75
19	984+26VR 178'LT	CHIS SQ CONC BASE LPOL	998.15

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN - USH 18/151 (VERONA ROAD)	SHEET 703 E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
5	986+89VR 63'RT	YELLOW KEEL SE BOLT @ BASE OF LPOL W/TFS	1000.33
10	990+18VR 159'RT	TOP NUT HYD	1002.33
11	996+32VR 179'RT	N COR NUT @ BP SIGN POST	1000.78
16	995+27VR 409'RT	RR SPIKE PP #20G6-G13	1001.49
20	987+73VR 382'LT	CHIS SQ CONC BASE LPOL	996.18
21	991+06VR 175'LT	N COR OF STEEL PLATE @ WEST CONC BASE	1001.61
22	995+11VR 158'LT	RR SPIKE PPOL #20G7-B3	999.01
23	998+46VR 253'LT	NW NUT @ BASE OF RT ARROW OVERHEAD SIGN POST	1001.23

HOME DEPOT USA, INC.

WEST VERONA ROAD FRONTAGE ROAD

SUMMIT ROAD

HARRIS N.A.

OLD WORLD PROPERTIES, LLC

SPS SELF SERVICE, LLC

JB'S REAL ESTATE, LLC

FEILER'S ENTERPRISES, INC.

FINKE, ROGER S. & BARBARA A.

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

1140+00

1141+00

1142+00

1143+00

BM20

BM21

BM22

BM23

SLOPE INTERCEPTS (TYP.)

CAUTION

ADJUSTING MANHOLE COVERS EX. SAS 3662-002

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

MATCHLINE STA. 985+00 VR

986+00 VR

987+00 VR

988+00 VR

989+00 VR

990+00 VR

991+00 VR

992+00 VR

993+00 VR

994+00 VR

995+00 VR

996+00 VR

997+00 VR

998+00 VR

999+00 VR

1000+

END CONSTRUCTION STA. 997+80.00 VR SAWCUT REQ'D MATCH EXISTING

BM5

BM10

BM11

BM16

EAST VERONA ROAD FRONTAGE ROAD

ONE REAL ESTATE, LLC

CANOPY

ROBERTS, JAMES & PATRICIA

VERONA ROAD BP MART, LLC

BRITTA PARKWAY

N-13-3

AVALON VILLAGE BLACK AND GREEN MADISON, LLC CITY OF MADISON FSGB, LLC

TLE

R/W

P.L.

IP

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN - USH 18/151 (VERONA ROAD)	SHEET 704	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\050108_pp_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 44

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

MEDICAL CIRCLE

YMCA OF DANE COUNTY INC

S WHITNEY WAY

R/W

N-13-4

78+00 K

79+00 K

77+00 K

N

P.I.

ADJUSTING MANHOLE COVERS EX. SAS 3261-020

ADJUSTING MANHOLE COVERS EX. SAS 3261-021

SLOPE INTERCEPTS (TYP.)

R/W

PROPOSED WHITNEY WAY BIKE PATH

CAUTION

67+00 L
68+00 L
69+00 L
70+00 L
71+00 L
72+00 L
73+00 L
74+00 L
75+00 L
76+00 L

L RAMP

1065+00
1066+00
1067+00
1068+00
1069+00
1070+00
1071+00
1072+00
1073+00
1074+00
1075+00
1076+00
1077+00
1078+00
1079+00
1080+00

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

WHITNEY WAY EASTBOUND OFF-RAMP

BEGIN CONSTRUCTION
STA. 66+72.43 L

END CONSTRUCTION
STA. 76+24.30 L
SAWCUT REQ'D
MATCH EXISTING

CAUTION

SCHROEDER ROAD

GOLF COURSE

GOLF GREEN

AMUSEMENT PARK

WALLS

RIPRAP

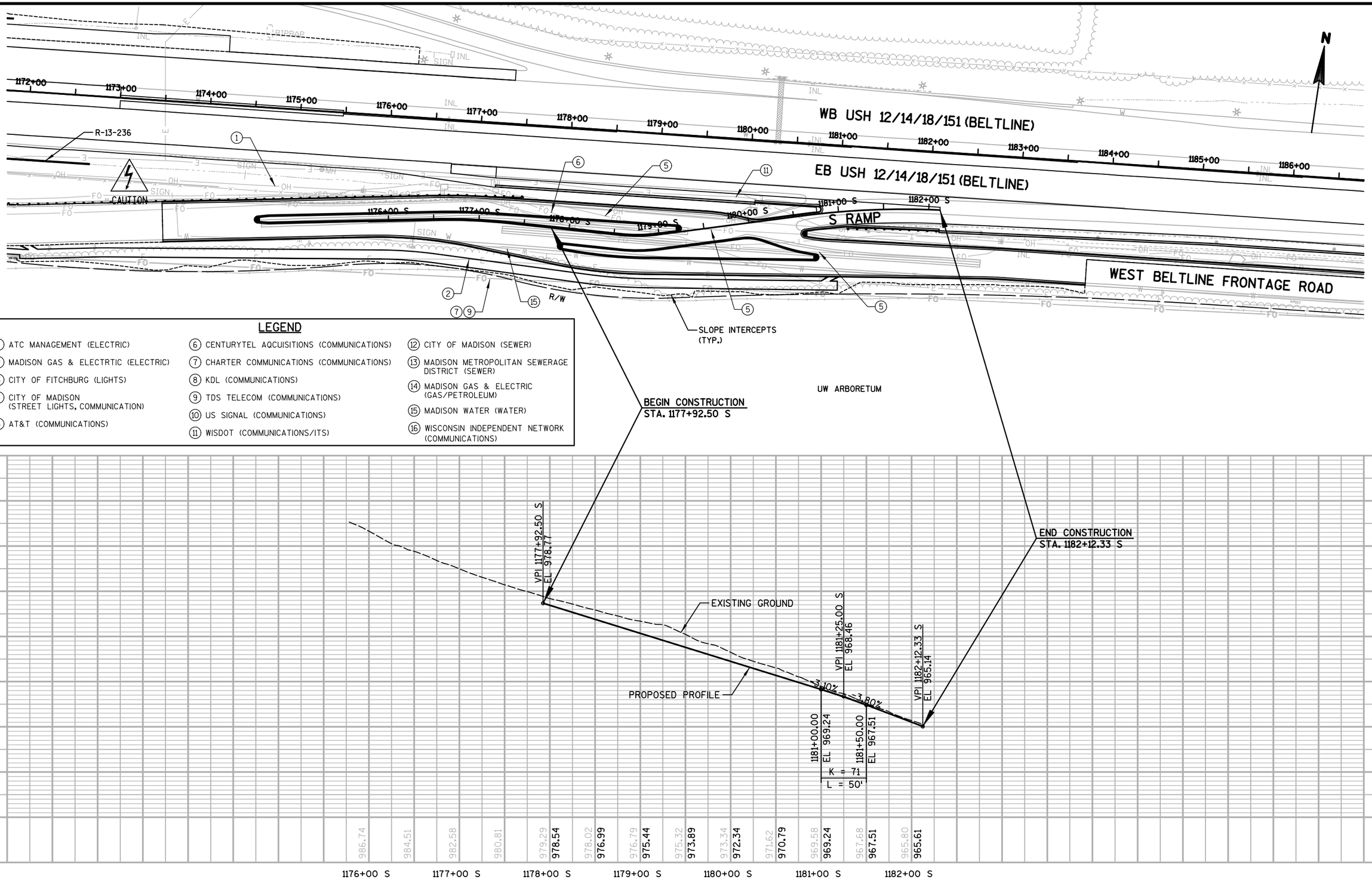
BERM

5

5

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN - L RAMP (L LINE)	SHEET	E

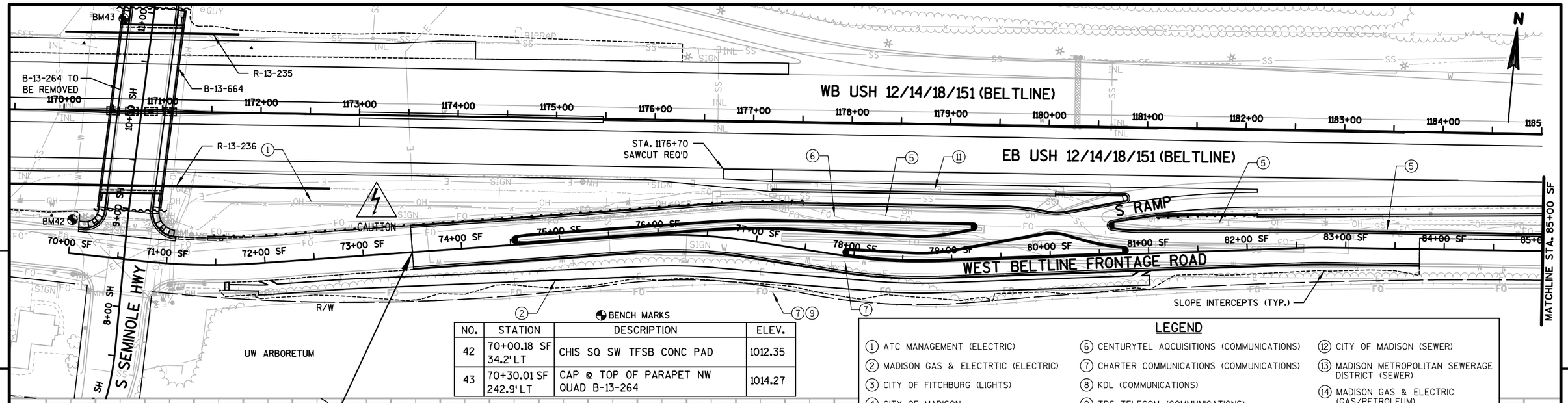
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LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - S RAMP (S LINE)	SHEET 706	E

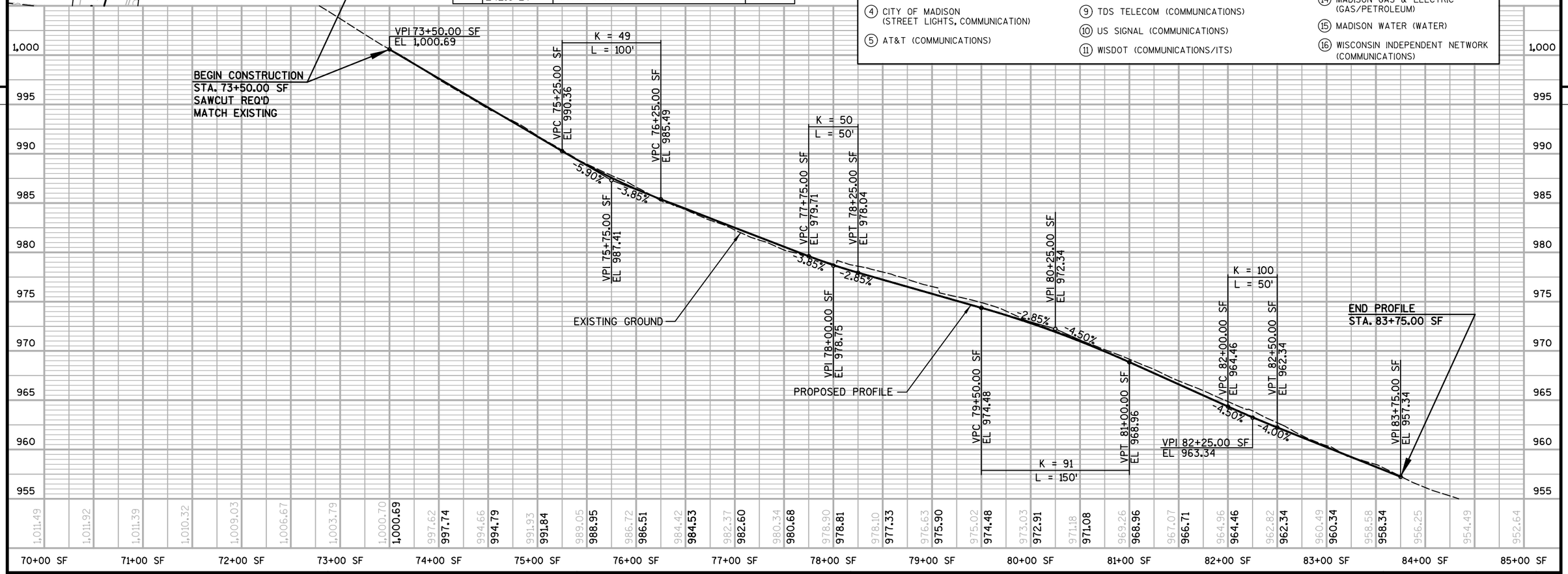


BENCH MARKS

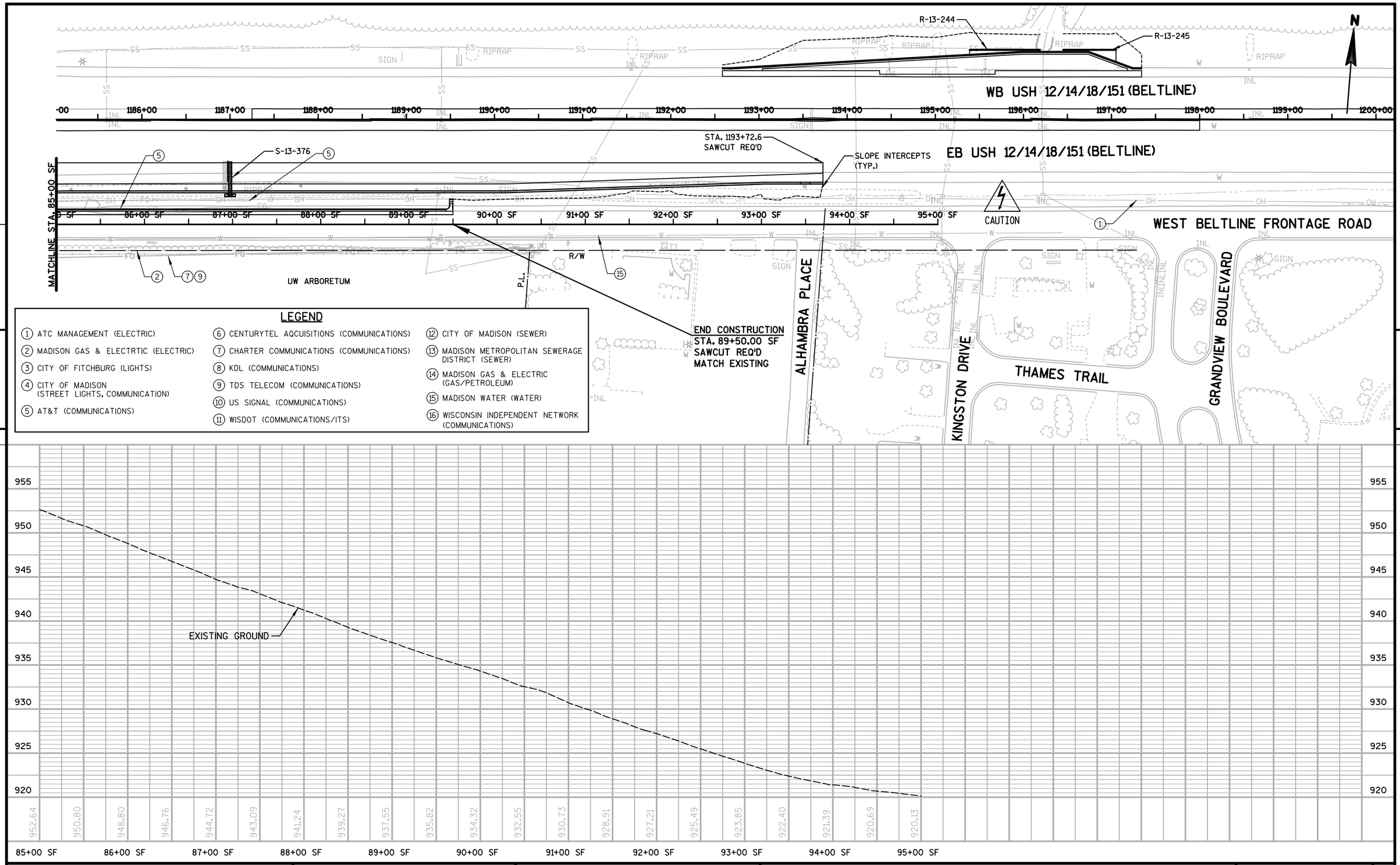
NO.	STATION	DESCRIPTION	ELEV.
42	70+00.18 SF 34.2' LT	CHIS SQ SW TFSB CONC PAD	1012.35
43	70+30.01 SF 242.9' LT	CAP @ TOP OF PARAPET NW QUAD B-13-264	1014.27

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - WEST BELTLINE FRONTAGE ROAD (SF LINE)	SHEET 707	E



LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - WEST BELTLINE FRONTAGE ROAD (SF LINE)	SHEET 708	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\050112_pp_sf.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 40

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
39	1156+07 405' LT	RR SPIKE PPOL W/ LPM *20G1-U5	1010.12
40	51+51.66 WW 73.6' RT	WISDOT DISK IN CONC	1010.86
41	57+05.07 WW 219' LT	RR SPIKE PPOL W/ LPM *20G1-C3	1010.20
42	64+57.40 WW 260.7' RT	CHIS SQ SW COR TFSB CONC PAD	1012.35
43	64+85.82 WW 51.8' RT	CAP @ TOP OF PARAPET NW QUAD B-13-264-71	1014.27
44	61+49.51 WW 20.5' LT	RR SPIKE LPOL *20G1-C13	1011.54

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

WHENONA DRIVE
S SEMINOLE HIGHWAY
DANBURY STREET
WARWICK WAY
BM39
BM40
BM41
BM42
BM43
BM44
ADJUSTING MANHOLE COVERS EX. SAS 3766-002 REPLACE 4" CASTING WITH SALVAGED CASTING FROM SAS 3866-012
STA. 51+17 WW LT CONSTRUCT P.E.
STA. 52+56 WW LT CONSTRUCT P.E.
STA. 53+00 WW LT CONSTRUCT P.E.
STA. 53+43 WW LT CONSTRUCT P.E.
4260 WARWICK WAY, LLC
BEERBOHM PAULA K.
POOLE, KATHLEEN P M.
NICKALS CARRISA A.
TLE
B-13-305 TO REMAIN
ADJUSTING MANHOLE COVERS EX. SAS 3866-012 INSTALL 9" CASTING
SLOPE INTERCEPTS (TYP.)
WB USH 12/14/18/151 (BELTLINE)
EB USH 12/14/18/151 (BELTLINE)
R-13-235
N-13-2
B-13-664
R-13-236
CAUTION
HS 0+50
HS 1+00
HS 1+50
HS 2+00
HS 1171+00
HS 1+01
70+00 SF
N

BEGIN CONSTRUCTION
STA. 50+75.00 WW
SAWCUT REQ'D
MATCH EXISTING

END CONSTRUCTION
STA. 53+50.00 WW
SAWCUT REQ'D
MATCH EXISTING

K = 40
L = 40
VPC 50+80.00 WW EL 1,008.95
LP 51+00.00 WW EL 1,008.90
VPT 51+20.00 EL 1,008.95
VPI 50+75.00 WW EL 1,008.98
VPI 51+00.00 WW EL 1,008.85

K = 50
L = 50'
VPC 52+00.00 WW EL 1,009.35
HP 52+25.00 WW EL 1,009.41
VPT 52+50.00 WW EL 1,009.35
VPI 52+25.00 WW EL 1,009.48

K = 44
L = 80'
VPC 53+10.00 WW EL 1,009.05
VPT 53+90.00 WW EL 1,009.37
LP 53+50.00 WW EL 1,008.85
VPI 53+50.00 WW EL 1,008.85

+0.50% -0.50% +0.50% -0.50% -0.50% +1.30%

EXISTING GROUND
PROFILE PROVIDED FOR INFORMATION ONLY
PROPOSED PROFILE

1025 1020 1015 1010 1005 1000 995 990

1,009.37 1,009.11 1,009.10 1,008.92 1,008.90 1,008.60 1,009.10 1,008.36 1,009.35 1,008.19 1,009.35 1,008.58 1,009.10 1,009.02 1,009.52 1,009.74 1,009.94

50+00 WW 51+00 WW 52+00 WW 53+00 WW 54+00 WW 55+00 WW 56+00 WW 57+00 WW 58+00 WW 59+00 WW 60+00 WW 61+00 WW 62+00 WW 63+00 WW 64+00 WW

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - WARWICK WAY (WW LINE)	SHEET 709	E

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)

MEDICAL CIRCLE

YMCA OF DANE COUNTY INC

S WHITNEY WAY

L RAMP

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

REMOVING FENCE REQ'D

EXISTING FENCE TO REMAIN

ADJUSTING MANHOLE COVERS EX. SAS 3261-020

ADJUSTING MANHOLE COVERS EX. SAS 3261-021

SLOPE INTERCEPTS (TYP.)

PROPOSED WHITNEY WAY BIKE PATH

CAUTION

BEGIN CONSTRUCTION
STA. 64+50.00 WP
SAWCUT REQ'D
MATCH EXISTING

END CONSTRUCTION
STA. 76+47.91 WP

PROPOSED PROFILE

EXISTING GROUND

VPI 64+50.00 WP EL 1,015.02
VPI 65+30.00 WP EL 1,012.79
VPC 65+20.00 WP EL 1,013.07
VPT 65+40.00 WP EL 1,012.29
K = 9 L = 20'
VPC 66+00.00 WP EL 1,009.29
K = 28 L = 100'
VPI 66+50.00 WP EL 1,006.79
VPT 67+00.00 WP EL 1,006.10
VPC 68+50.00 WP EL 1,004.04
K = 230 L = 50'
VPT 69+00.00 WP EL 1,003.41
VPI 68+75.00 WP EL 1,003.70
VPC 70+30.00 WP EL 1,001.91
K = 38 L = 100'
LP 70+73.56 WP EL 1,001.66
VPI 70+80.00 WP EL 1,001.33
VPT 71+30.00 WP EL 1,002.08
VPI 73+25.00 WP EL 1,005.00
VPC 72+75.00 WP EL 1,004.25
HP 70+80.00 WP EL 1,004.38
VPT 73+75.00 WP EL 1,003.32
K = 21 L = 100'
VPC 74+10.00 WP EL 1,002.14
K = 36 L = 100'
VPI 74+60.00 WP EL 1,000.46
VPT 75+10.00 WP EL 1,000.16
VPI 75+15.00 WP EL 1,000.13
K = 22 L = 120'
VPI 75+75.00 WP EL 999.77
VPI 76+35.00 WP EL 996.18
VPI 76+40.87 WP EL 996.03
VPI 76+47.91 WP EL 995.68
VPI 76+35.87 WP EL 996.13

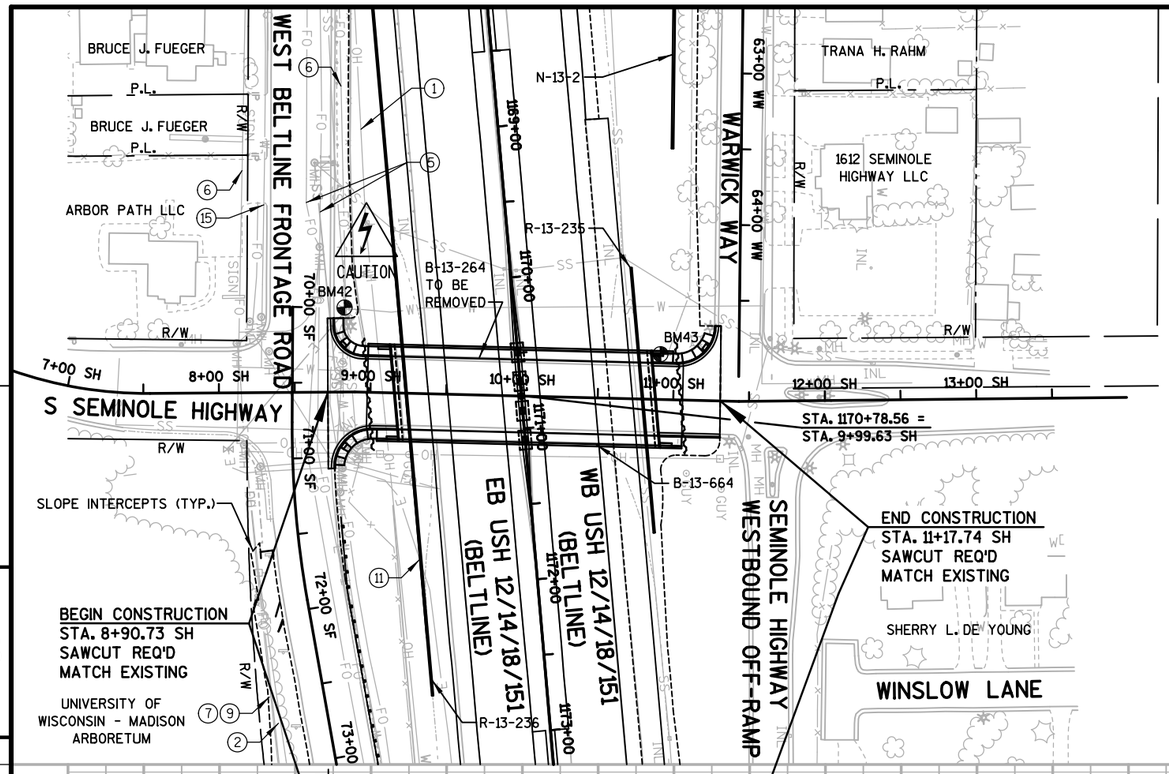
-2.79% -5.00% -5.00% -1.37% -1.37% -1.16% -1.16% +1.50% +1.50% -3.36% -3.36% -0.60% -0.60% -25.99% -2.00% -4.97%

1015.00	1015.02	1013.62	1013.63	1007.64	1011.79	1005.52	1009.29	1004.69	1007.24	1004.28	1006.10	1003.75	1005.42	1003.71	1004.73	1003.14	1004.04	1003.11	1003.41	1002.07	1002.83	1002.15	1002.25	1001.37	1001.73	1000.95	1001.75	1001.62	1002.38	1001.96	1003.13	1003.05	1003.88	1003.80	1004.47	1003.57	1004.01	1001.91	1002.48	1000.17	1001.02	999.13	1000.23	999.63	999.65	999.11	998.00
64+00 WP		65+00 WP		66+00 WP		67+00 WP		68+00 WP		69+00 WP		70+00 WP		71+00 WP		72+00 WP		73+00 WP		74+00 WP		75+00 WP		76+00 WP																							

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - BIKE PATH - WHITNEY WAY (WP LINE)	SHEET 710	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\050114_pp_wp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 40



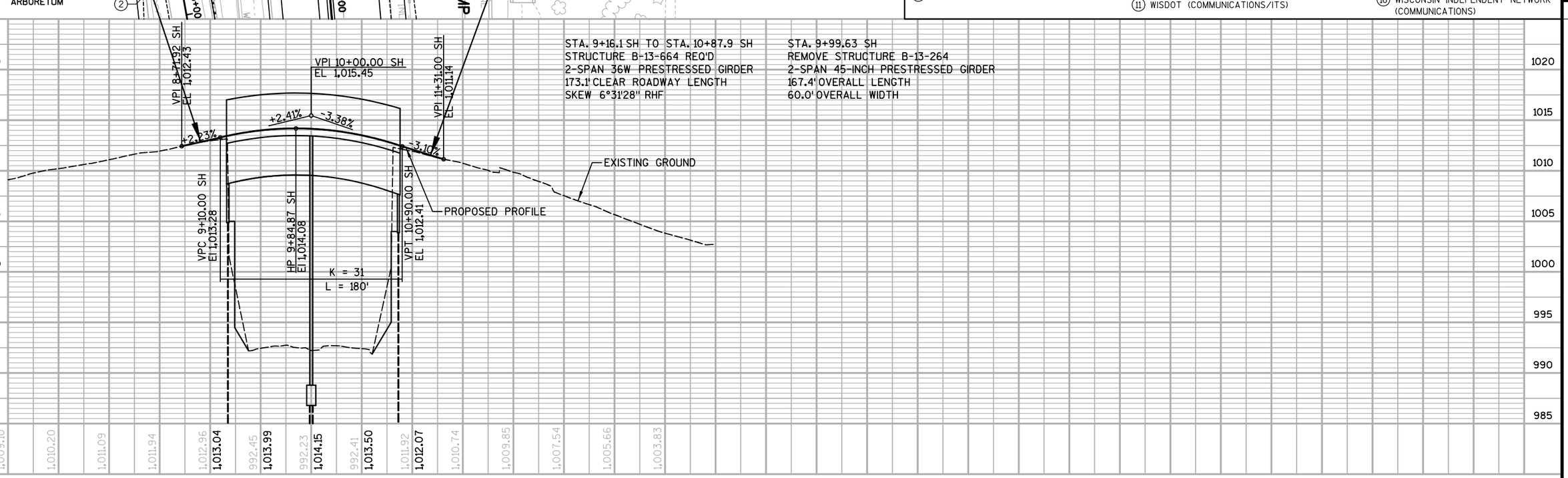
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
42	8+83.32 SH 55.8' LT	CHIS SQ SW COR TFSB CONC PAD	1012.35
43	10+90.79 SH 29.9' LT	CAP @ TOP OF PARAPET NW QUAD B-13-264-71	1014.27

N

LEGEND

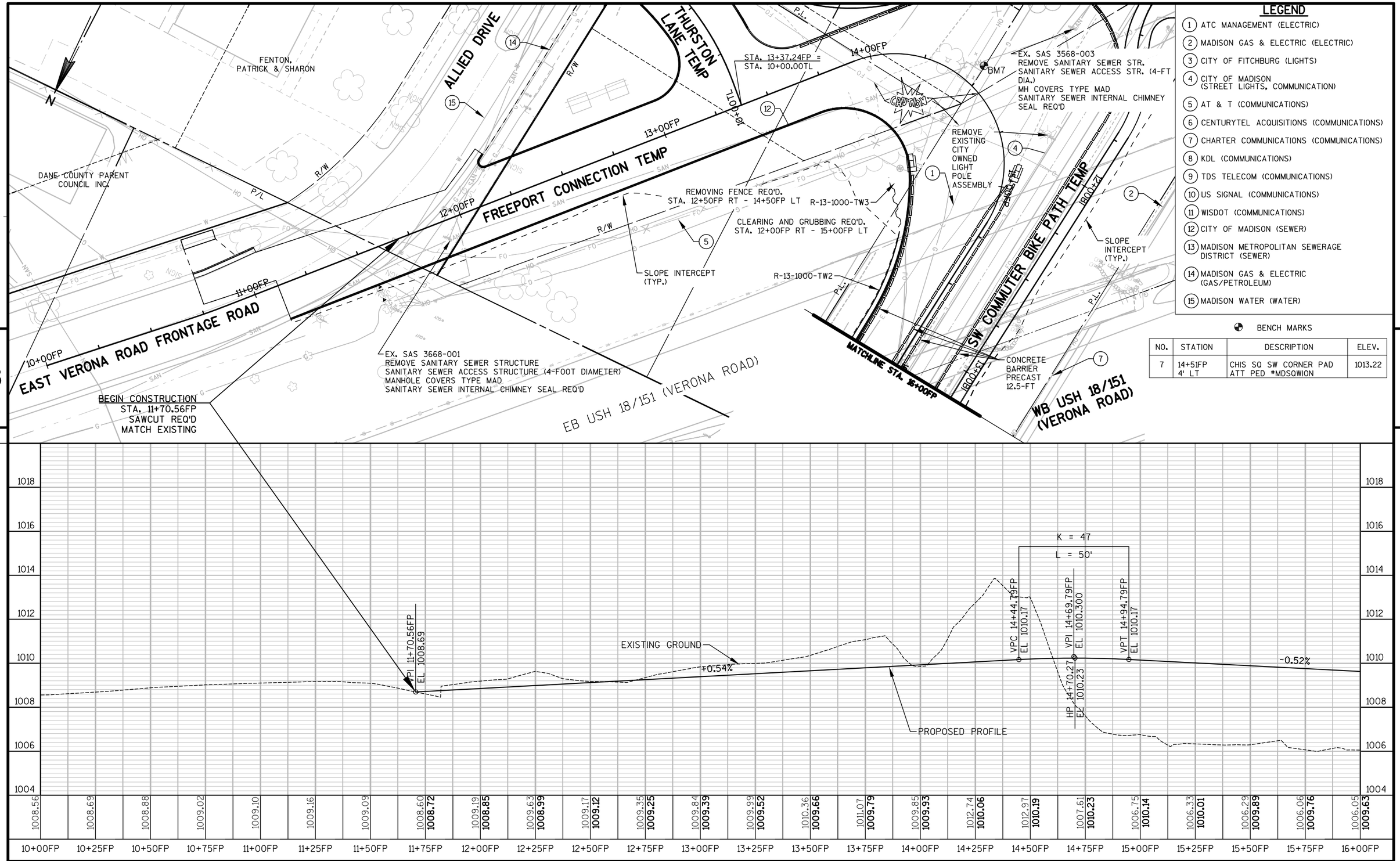
1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRTIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT&T (COMMUNICATIONS)
6. CENTURYTEL AQCUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS/ITS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)
16. WISCONSIN INDEPENDENT NETWORK (COMMUNICATIONS)



STA. 9+16.1 SH TO STA. 10+87.9 SH
STRUCTURE B-13-664 REQ'D
2-SPAN 36W PRESTRESSED GIRDER
173.1' CLEAR ROADWAY LENGTH
SKEW 6°31'28" RHF

STA. 9+99.63 SH
REMOVE STRUCTURE B-13-264
2-SPAN 45-INCH PRESTRESSED GIRDER
167.4' OVERALL LENGTH
60.0' OVERALL WIDTH

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - SEMINOLE HIGHWAY (SH LINE)	SHEET 711	E

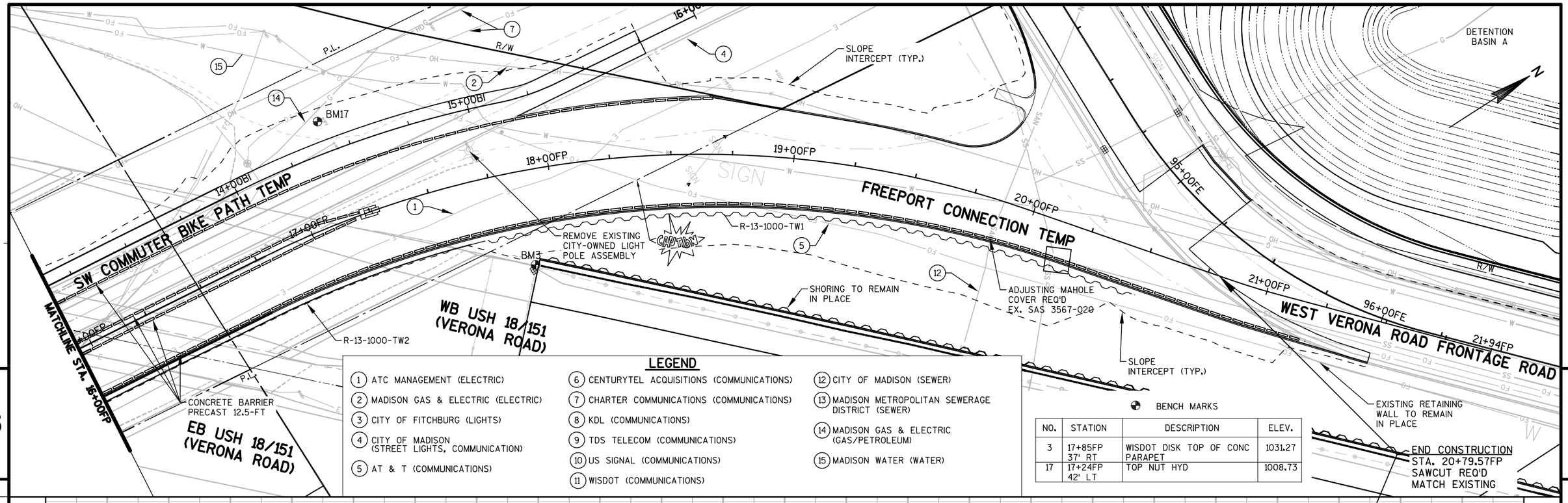


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - FREEPORT CONNECTION TEMP (FP LINE)

SHEET 712 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050106_PP (FREEPORT).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

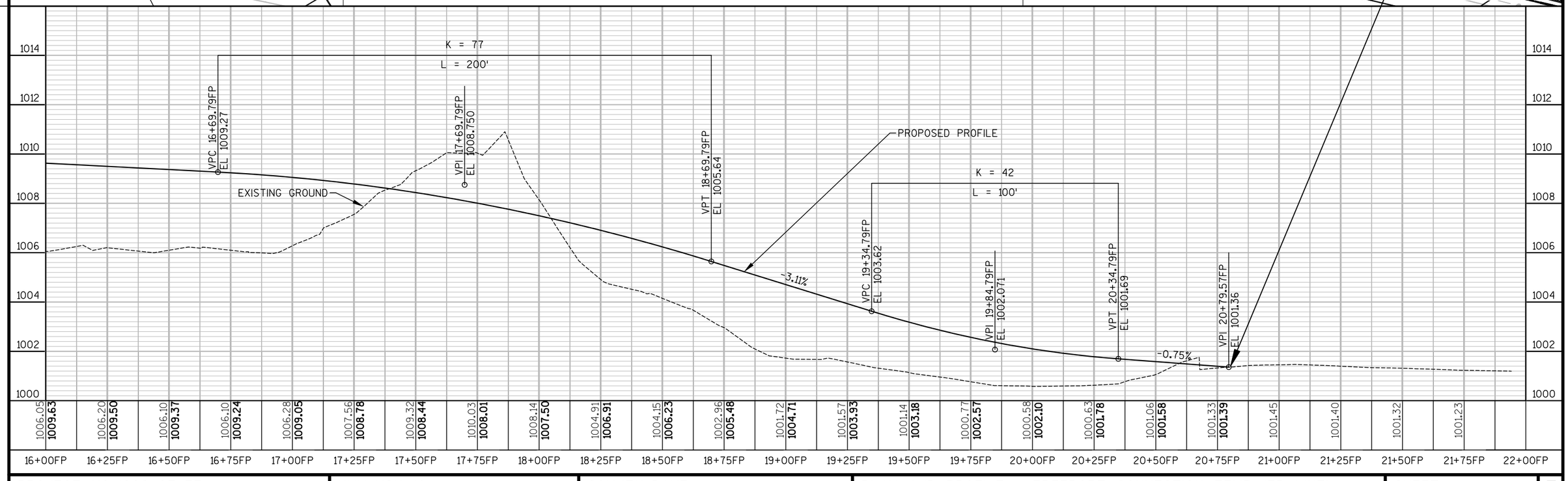


LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT & T (COMMUNICATIONS)
6. CENTURYTEL ACQUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)

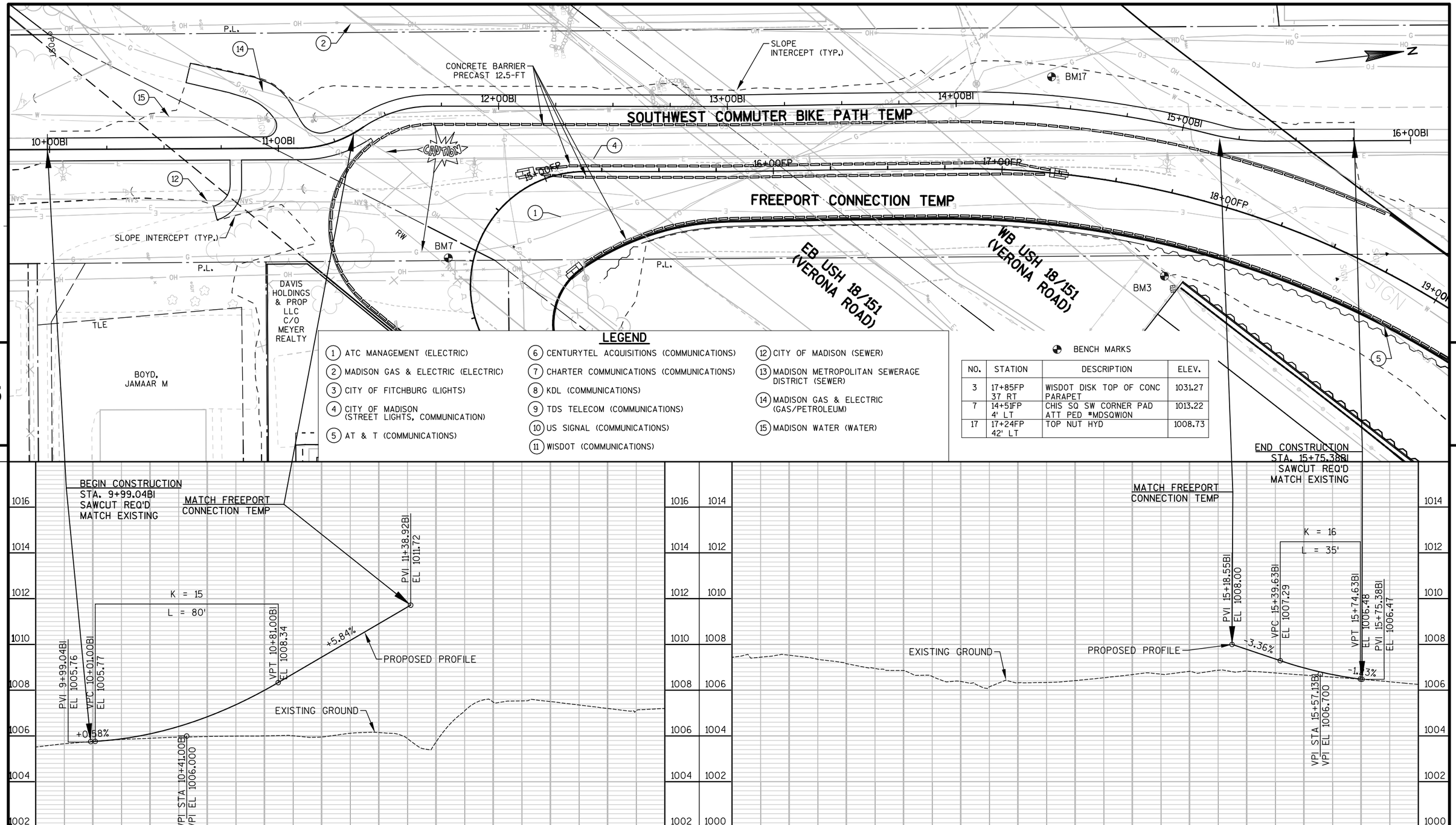
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
3	17+85FP 37' RT	WISDOT DISK TOP OF CONC PARAPET	1031.27
17	17+24FP 42' LT	TOP NUT HYD	1008.73



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - FREEPORT CONNECTION TEMP (FP LINE)	SHEET 713 E

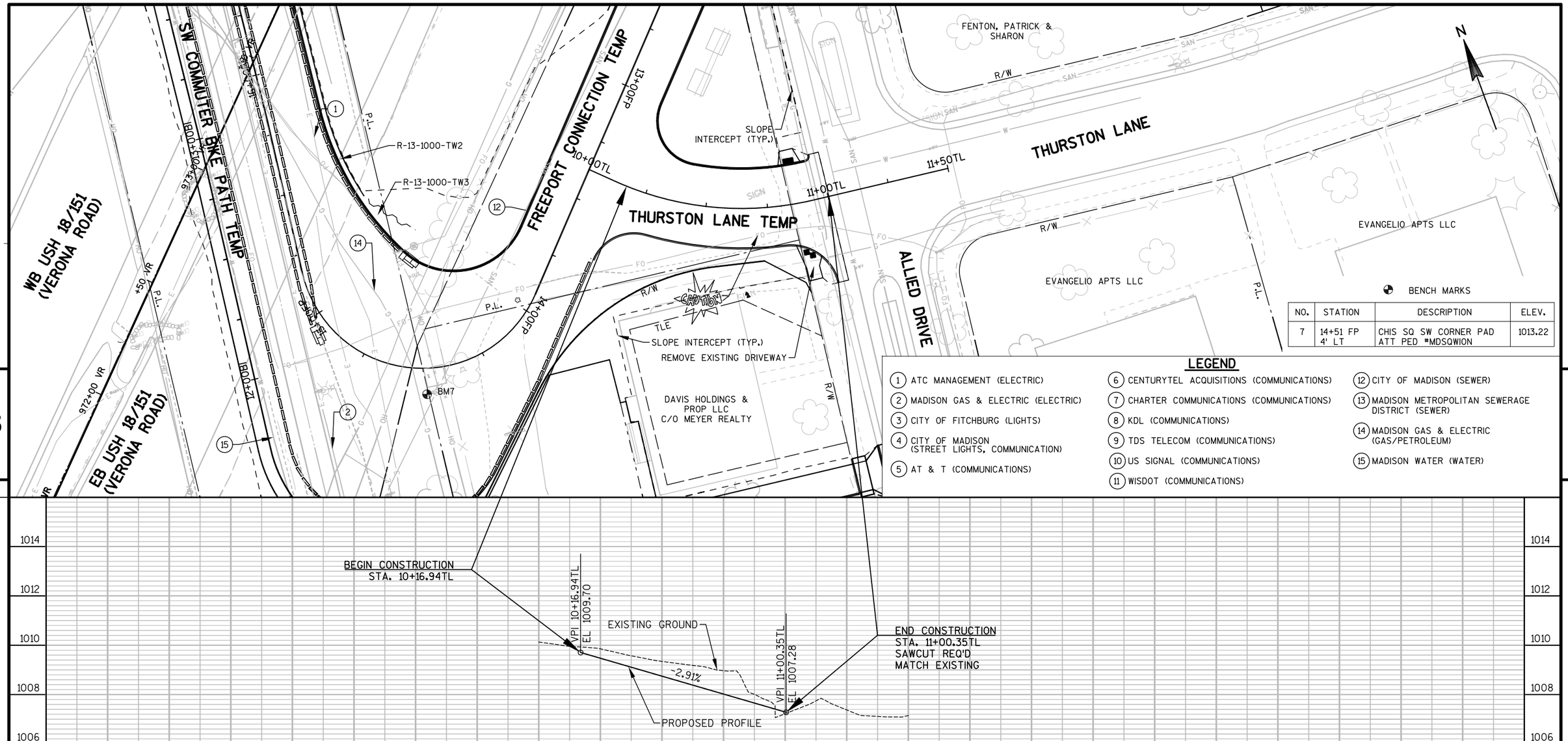
FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050106_PP (FREEPORT).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1 IN:40 FT



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - SW COMMUTER BIKE PATH TEMP (BI LINE)	SHEET 714 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050121_PP (BIKE TRAIL TEMP).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 44



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
7	14+51 FP 4' LT	CHIS SQ SW CORNER PAD ATT PED *MDSQWION	1013.22

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT & T (COMMUNICATIONS)
6. CENTURYTEL ACQUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - THURSTON LANE TEMP (TL LINE)	SHEET 715	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050121_PP (THURSTON LANE).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1 IN:40 FT

WB USH 18/151 (VERONA ROAD)

EB USH 18/151 (VERONA ROAD)

SW COMMUTER BIKE PATH TEMP

FREEPORT CONNECTION TEMP

ALLIED DRIVE

CARLING DRIVEWAY

DAVIS HOLDINGS & PROP LLC C/O MEYER REALTY

EVANGELIO APTS LLC

BOYD, JAMAAR M

BM2

BM7

SLOPE INTERCEPT (TYP.)

CLEARING AND GRUBBING REQ'D. STA. 11+25CW 5'LT

END CONSTRUCTION
STA. 11+86.51CW
SAWCUT REQ'D
MATCH EXISTING

BEGIN CONSTRUCTION
STA. 10+05.59CW

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
2	14+82 FP 114' LT	WISDOT DISK TOP OF CONC PARAPET	1033.81
7	14+51 FP 4' LT	CHIS SQ SW CORNER PAD ATT PED #MDSQWION	1013.22

LEGEND

1. ATC MANAGEMENT (ELECTRIC)
2. MADISON GAS & ELECTRIC (ELECTRIC)
3. CITY OF FITCHBURG (LIGHTS)
4. CITY OF MADISON (STREET LIGHTS, COMMUNICATION)
5. AT & T (COMMUNICATIONS)
6. CENTURYTEL ACQUISITIONS (COMMUNICATIONS)
7. CHARTER COMMUNICATIONS (COMMUNICATIONS)
8. KDL (COMMUNICATIONS)
9. TDS TELECOM (COMMUNICATIONS)
10. US SIGNAL (COMMUNICATIONS)
11. WISDOT (COMMUNICATIONS)
12. CITY OF MADISON (SEWER)
13. MADISON METROPOLITAN SEWERAGE DISTRICT (SEWER)
14. MADISON GAS & ELECTRIC (GAS/PETROLEUM)
15. MADISON WATER (WATER)

EXISTING GROUND

PROPOSED PROFILE

VPI 10+05.59CW EL 1011.77

K = 11
L = 40'

VPC 10+46.08CW EL 1010.15

VPT 10+86.08CW EL 1009.25

VPI 10+66.08CW EL 1009.350

K = 4
L = 20'

VPC 11+20.52CW EL 1009.08

VPT 11+40.52CW EL 1008.51

VPI 11+30.52CW EL 1009.031

VPI 11+73.03CW EL 1006.83

VPI 11+78.03CW EL 1006.73

VPI 11+84.01CW EL 1006.25

-4.00%

-0.50%

-5.18%

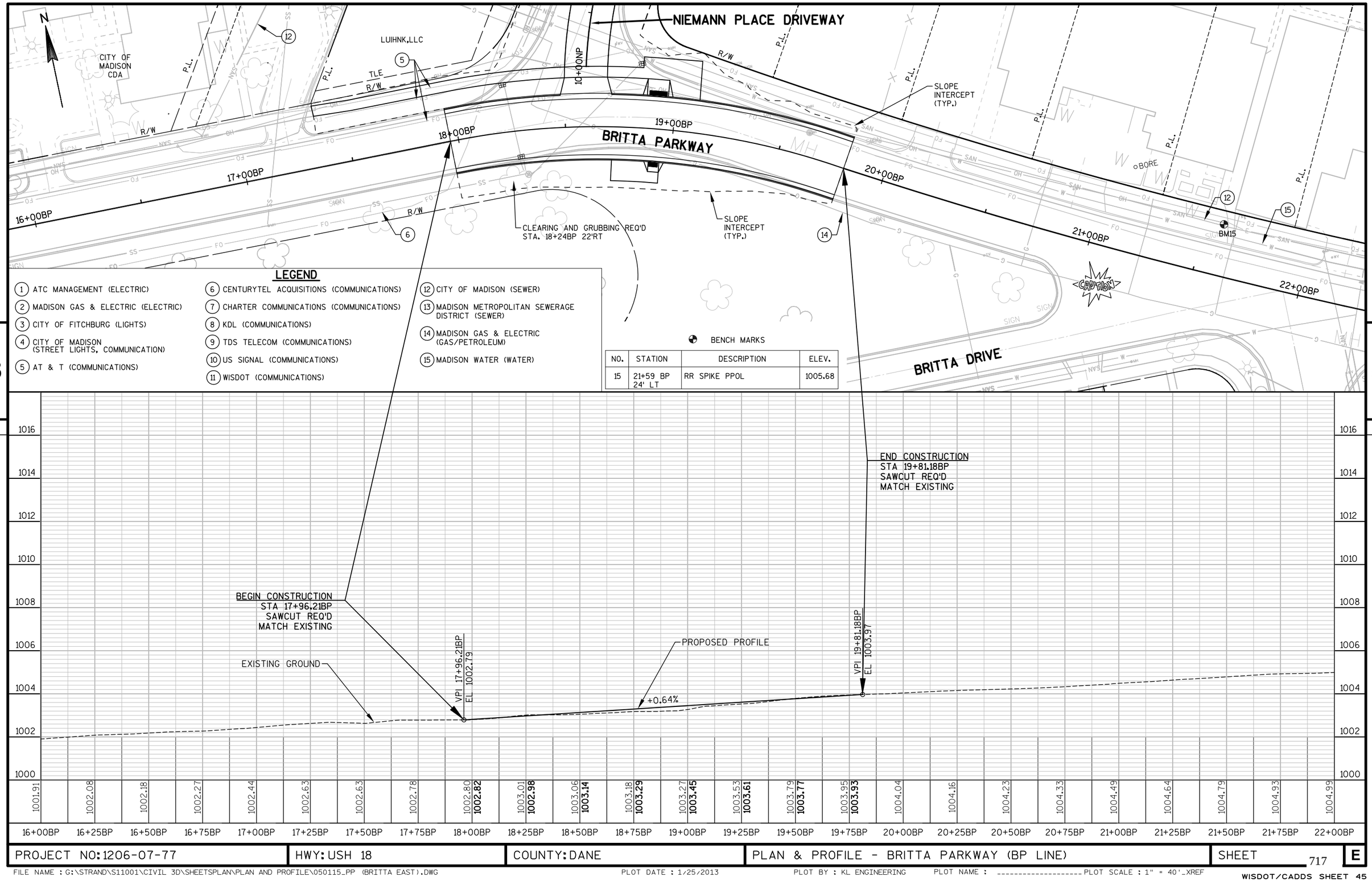
-2.00%

-0.03%

8+00CW	8+25CW	8+50CW	8+75CW	9+00CW	9+25CW	9+50CW	9+75CW	10+00CW	10+25CW	10+50CW	10+75CW	11+00CW	11+25CW	11+50CW	11+75CW	12+00CW	12+25CW	12+50CW	12+75CW	13+00CW	13+25CW	13+50CW	13+75CW	14+00CW
								1009.94	1014.91 **1010.99**	1009.42 **1010.00**	1009.00 **1009.36**	1008.99 **1009.18**	1009.03 **1009.03**	1008.48 **1008.02**	1007.16 **1006.79**	1006.77								

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE - CARLING DRIVEWAY (CW LINE)	SHEET 716	E

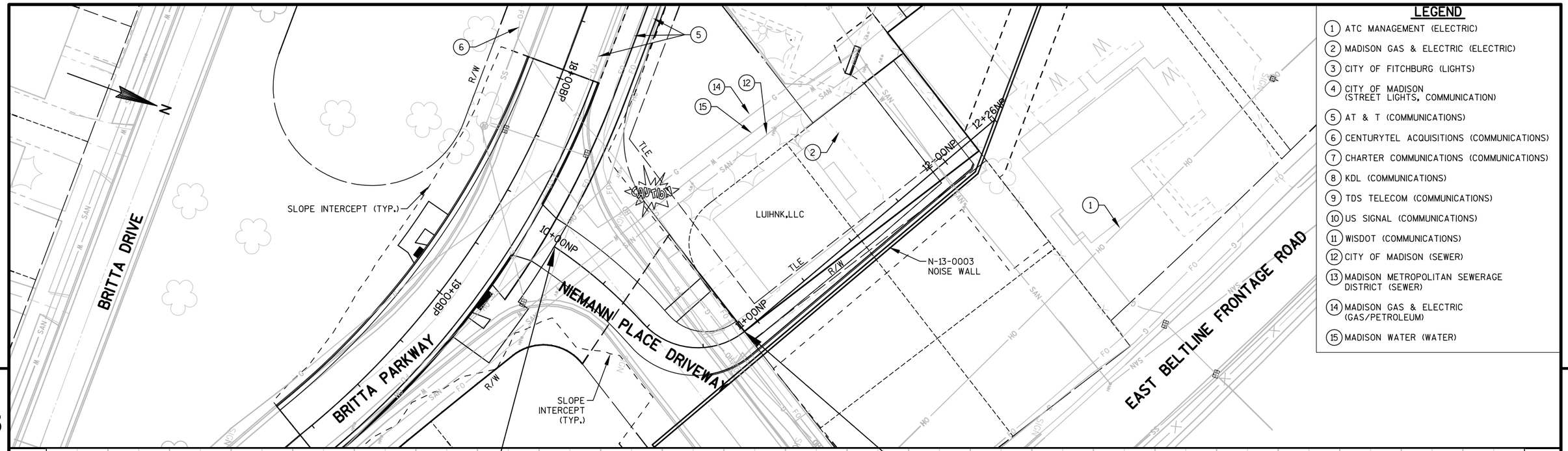
FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050122_PP (CARLING DRIVEWAY).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : 1" = 40'_XREF

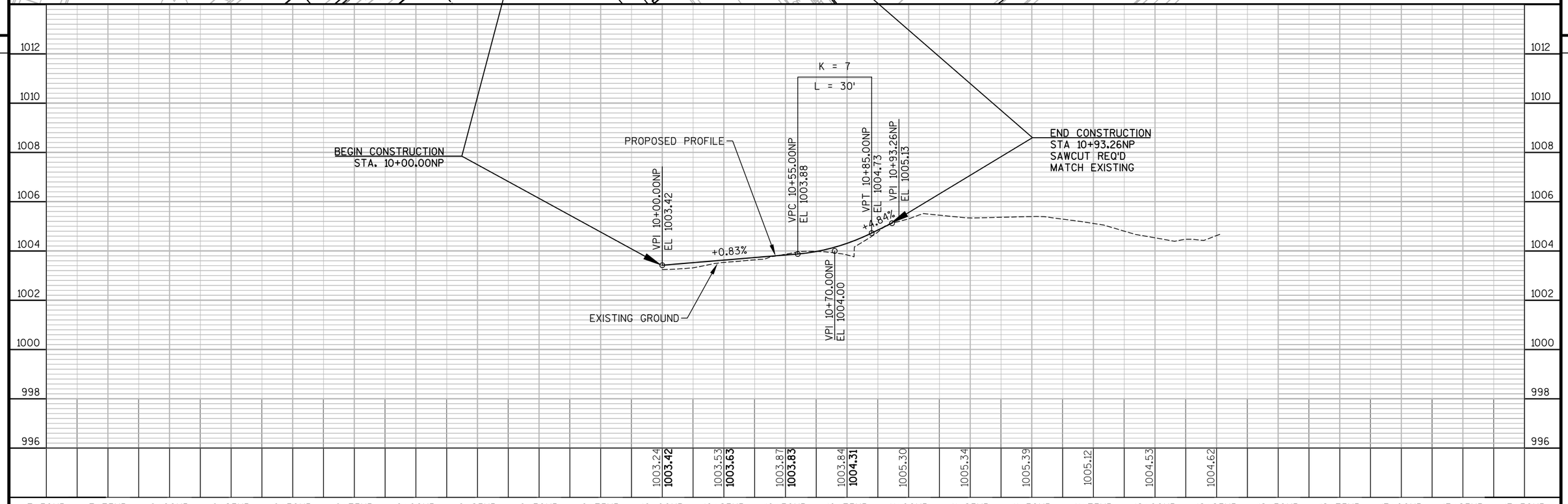


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN & PROFILE - BRITTA PARKWAY (BP LINE)	SHEET 717	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050115_PP (BRITTA EAST).DWG PLOT DATE : 1/25/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1" = 40'_XREF

WISDOT/CADDS SHEET 45





PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN & PROFILE - NIEMANN PLACE DRIVEWAY (NP LINE)	SHEET 718 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\PLAN AND PROFILE\050116_PP (NIEMANN).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : 1 IN:40 FT

LEGEND

1. ATC MANAGEMENT (ELECRTIC)
2. ALLIANT ENERGY (ELECTRIC)
3. MADISON GAS & ELECTRTIC (ELECTRIC)
4. MADISON GAS & ELECTRTIC (GAS)
5. MADISON METROPOLITAN SEWERAGE DISTRICT (SAN)
6. CITY OF FITCHBURG (SAN)
7. CITY OF FITCHBURG (STORM)
8. CITY OF FITCHBURG (WATER)
9. CITY OF FITCHBURG

W-M INVESTMENTS LLC

CERTCO INC.

JOHN D. PAUL & DEBORAH PAUL

TJM MCKEE ROAD LLC

CONSOLIDATED NUTRITION LC

EB CTH PD (MCKEE ROAD)

WB CTH PD (MCKEE ROAD)

FUTURE MILITARY RIDGE PATH (BY OTHERS)

SLOPE INTERCEPTS (TYP.)

BM 1

BM 2

BM 3

CAUTION

R-13-242

R-13-243

B-13-666

MG&E

P.L.

BEGIN CONSTRUCTION
STA 93+00 MR

STA 95+50.00 MR =
STA 10+00.00 Y
SAWING ASPHALT REQ'D
MATCH EXISTING

STA 99+94.82 MR =
STA 126+46.61 PD

STA 104+50.00 MR =
STA 10+00.00 Z
SAWING ASPHALT REQ'D
MATCH EXISTING

END CONSTRUCTION
STA 107+00 MR

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
1	96+28.51 MR 65.70' LT	TOP CORNER OF CONCRETE PATIO	999.23
2	127+58.33 PD 59.26' LT	TOP NUT OF FIRE HYDRANT	1000.94
3	124+01.27 PD 65.12' LT	TOP NUT OF FIRE HYDRANT	1003.37

STA. 96+95.94 MR
STRUCTURE B-13-666
2-SPAN PREFABRICATED
STEEL TRUSS WITH CONCRETE
SLAB SPANS ON END
447.33' CLEAR LENGTH
SKEW 36.4° RHF

PROPOSED PROFILE

EXISTING GROUND

VPI 93+00.00 MR EL 994.18
VPC 93+10.00 MR EL 994.22
VPI 93+60.00 MR EL 994.45
VPT 94+10.00 MR EL 996.95
VPC 94+40.00 MR EL 998.45
VPI 94+90.00 MR EL 1,000.95
VPT 95+40.00 MR EL 1,001.95
VPC 95+60.00 MR EL 1,002.35
VPI 96+10.00 MR EL 1,003.35
VPT 96+60.00 MR EL 1,005.85
VPC 98+90.00 MR EL 1,017.35
VPI 100+00.00 MR EL 1,020.10
VPT 101+10.00 MR EL 1,017.35
VPC 103+40.00 MR EL 1,005.85
VPI 103+90.00 MR EL 1,003.35
VPT 104+40.00 MR EL 1,002.35
VPC 104+60.00 MR EL 1,001.95
VPI 105+10.00 MR EL 1,000.95
VPT 105+60.00 MR EL 998.45
VPC 105+90.00 MR EL 998.45
VPI 106+20.00 MR EL 996.95
VPT 106+20.00 MR EL 996.80
VPI 107+00.00 MR EL 996.39

K = 22, L = 100'
K = 33, L = 100'
K = 33, L = 100'
K = 22, L = 220'
K = 33, L = 100'
K = 33, L = 100'
K = 13, L = 60'

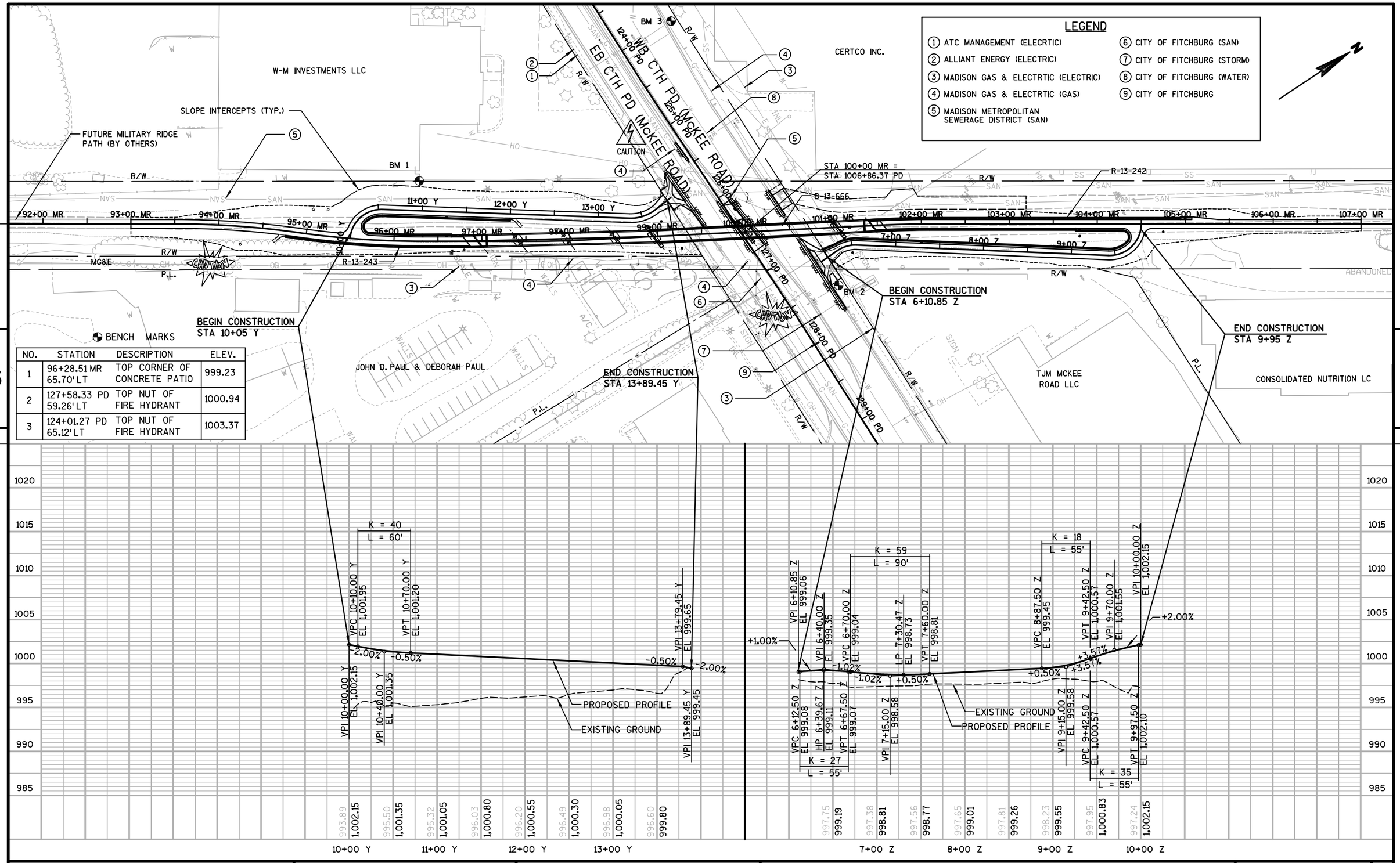
+0.45%, +5.00%, +2.00%, +2.00%, +5.00%, +5.00%, -5.00%, -2.00%, -2.00%, -5.00%, -5.00%, -0.51%

92+00 MR	93+00 MR	94+00 MR	95+00 MR	96+00 MR	97+00 MR	98+00 MR	99+00 MR	100+00 MR	101+00 MR	102+00 MR	103+00 MR	104+00 MR	105+00 MR	106+00 MR	107+00 MR
993.61	994.13	994.17	994.18	994.34	994.77	994.77	996.47	995.06	998.94	994.66	1,000.91	993.89	1,002.15	993.50	1,003.39
993.98	1,005.37	993.54	1,007.85	993.96	1,010.35	994.55	1,012.85	995.31	1,015.35	995.77	1,017.83	998.61	1,019.53	998.42	1,020.10
998.55	1,019.53	997.71	1,017.83	997.75	1,015.35	997.78	1,012.85	997.76	1,010.35	997.60	1,007.85	997.68	1,005.37	997.52	1,003.39
997.24	1,002.15	997.07	1,000.91	997.10	998.94	997.02	997.05	996.60	996.64	996.40	996.39				

PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE-MILITARY RIDGE PATH (MR LINE)	SHEET 719 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\050116_pp_mr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 40



PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	PLAN AND PROFILE-Y & Z LINES	SHEET 720	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\050117_pp_y-z.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

POINT NO.	CTH PB STATION	CTH PB OFFSET	ELEVATION	Y	X	REMARKS
A100	101+53.58 PB	3.75LT	---	445713.41	787056.63	END OF RADIUS; BEGIN CURB AND GUTTER; SAWCUT POINT
A101	101+53.58 PB	13.75LT	---	445713.07	787046.64	SAWCUT POINT
A102	93+67.25 PB	1448.75LT	---	445663.64	785612.49	R=1,445'

CONVENIENCE STORE INVESTMENTS

PI = 85+71.61 MPB
Y = 445,580.07
X = 785,629.28

CTH M

R/W

CAUTION

CTH PB

98+00 PB

+50 PB

99+00 PB

+50 PB

ASPHALTIC SURFACE
SAFETY ISLANDS

86° 42' 10"

100+00 PB

BEGIN CONSTRUCTION
STA. 91+48.91 PB
Y = 444,776.51
X = 786,757.86

PC 90+92.97 PB

STA. 100+00.00 PB =
STA. 100+00.00 MPB

98+00 MPB

+50 MPB

99+00 MPB

S 89° 11' 51" E

+50 MPB

101+00 MPB

BEGIN CONSTRUCTION
STA. 86+65.55 MPB
Y = 445,578.76
X = 785,723.22

WHALEN INVESTMENTS, LLC.

A102

N

R/W

MG&E GAS
(GAS/PETROLEUM)

CAUTION

TDS TELECOM
(COMMUNICATION)

CHARTER COMMUNICATIONS
(COMMUNICATION)

ATC
(ELECTRIC)

A101

A100

+50 PB

101+00 PB

+50 PB

102+00 PB

CG-30D

+50 PB

103+00 PB

+50

MATCHLNE STA. 103+50 PB

CURVE PB-1

SLOPE INTERCEPT (TYP.)

ASPHALTIC SURFACE
SAFETY ISLANDS

CTH PB

TDS TELECOM
(COMMUNICATION)

R/W

ANOREV, LLC.

ALLIANT ENERGY
(ELECTRIC)

PI = 112+65.19 MPB
Y = 445,542.34
X = 788,319.03

CP 10 ▲

MATCHLNE STA. 101+00 MPB

WHALEN INVESTMENTS, LLC.

TDS TELECOM
(COMMUNICATION)

NOTE: REMOVING ASPAHLTIC INTERSECTION RUMBLE STRIPS REQ'D.
SEE MISC. QUANTITIES FOR ASSOCIATED BID ITEMS.
STA. 86+81 RT MPB
STA. 94+11 RT MPB
STA. 95+86 RT MPB
STA. 91+61 RT PB
STA. 93+51 RT PB
STA. 95+76 RT PB

CURVE PB-1
P.I. = 99+92.74 PB
Y = 445,422.51
X = 787,300.78
DELTA = 63° 41' 09" (LT)
D = 3° 57' 17"
T = 899.77'
L = 1,610.33'
R = 1,448.75'
P.C. = 90+92.97 PB
P.T. = 107+03.30 PB

BENCH MARKS/CONTROL POINTS ▲

NO.	STATION/OFFSET	NORTHING	EASTING	ELEV.
CP 10 (PK)	100+93.62 MPB/21.70' RT	445,537.05	787,150.84	1041.03

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	♿	CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	▬	CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				–x–x–	FENCE SAFETY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - CTH PB AT CTH M	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050201_pn_pb.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 44

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
■	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	♿	CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x—x—	FENCE SAFETY

CURVE PB-1
P.I. = 99+92.74 PB
Y = 445,422.51
X = 787,300.78
DELTA = 63° 41' 09" (LT)
D = 3° 57' 17"
T = 899.77'
L = 1,610.33'
R = 1,448.75'
P.C. = 90+92.97 PB
P.T. = 107+03.30 PB

BENCH MARKS/CONTROL POINTS ▲

NO.	STATION/OFFSET	NORTHING	EASTING	ELEV.
CP 25 (PK)	106+26.76 PB/43.83'RT	446,190.92	787,008.83	1036.05

WHALEN INVESTMENTS, LLC.

R/W

R/W

EXISTING RUMBLE STRIP TO BE REMOVED. SEE PLAN-REHAB./TRAFFIC CONTROL SHEETS FOR ASSOCIATED BID ITEMS.

EXISTING RUMBLE STRIP TO BE REMOVED. SEE PLAN-REHAB./TRAFFIC CONTROL SHEETS FOR ASSOCIATED BID ITEMS.

MATCHLNE STA. 103+50 PB

B100

B101

SLOPE INTERCEPT (TYP.)

PB CG-30D 104+00 PB 12.5:1 TAPER +50 PB 105+00 PB +50 PB 106+00 PB +50 PB 107+00 PB

PT 107+03.30 PB

CURVE PB-1

CTH PB

CP 25

CAUTION

END CONSTRUCTION
STA. 106+88.30 PB

MG&E GAS
(GAS/PETROLEUM)

R/W

TDS TELECOM
(COMMUNICATION)

WHALEN INVESTMENTS, LLC.

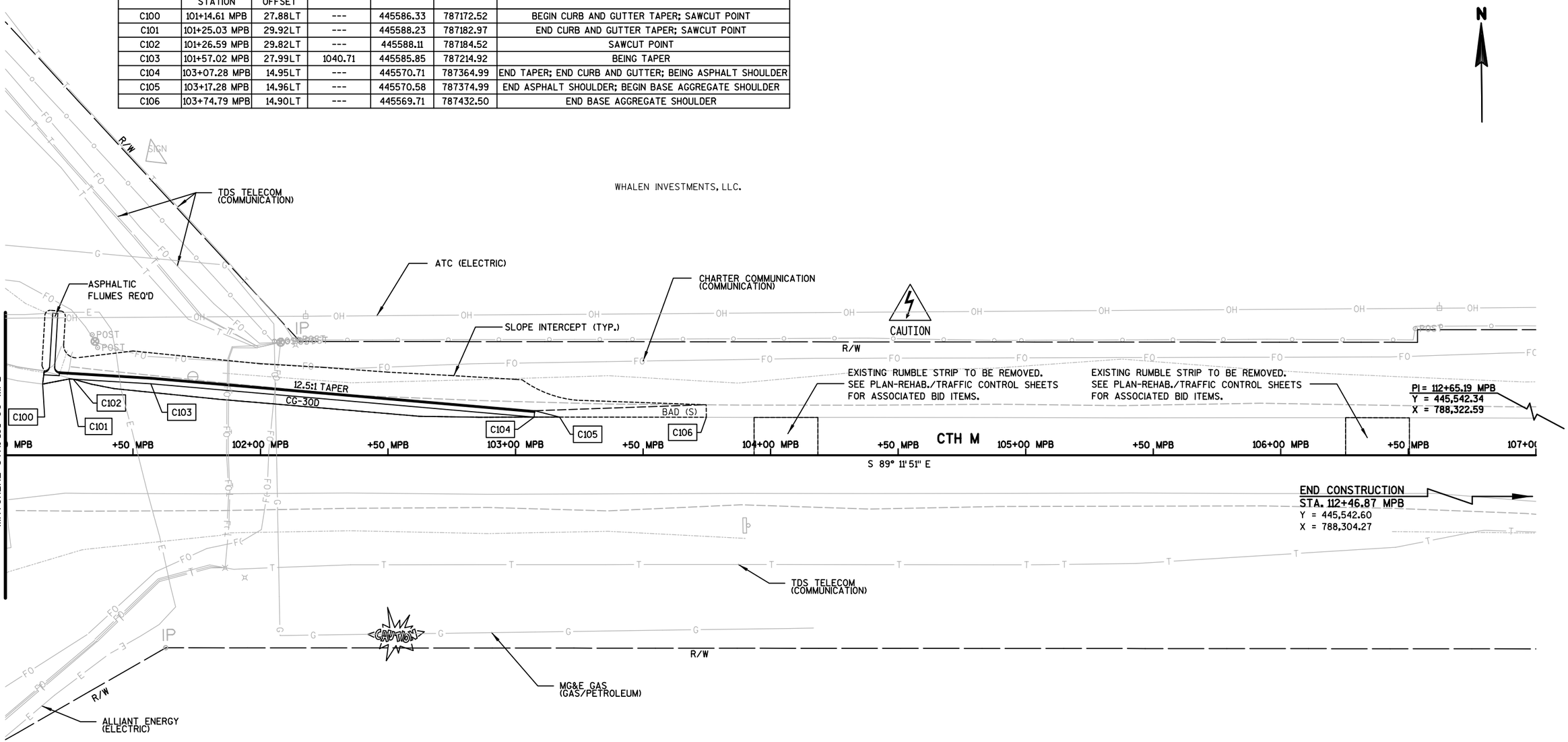
POINT NO.	CTH PB STATION	CTH PB OFFSET	ELEVATION	Y	X	REMARKS
B100	104+00.21 PB	3.75LT	1037.38	445957.35	787027.32	END RADIUS; BEGIN TAPER
B101	105+25.53 PB	13.75LT	---	446075.62	786987.08	END TAPER; END CURB AND GUTTER; SAWCUT POINT

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - CTH PB AT CTH M	SHEET 722	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050202_pn_pb.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 44

POINT NO.	CTH M		ELEVATION	Y	X	REMARKS
	STATION	OFFSET				
C100	101+14.61 MPB	27.88LT	---	445586.33	787172.52	BEGIN CURB AND GUTTER TAPER; SAWCUT POINT
C101	101+25.03 MPB	29.92LT	---	445588.23	787182.97	END CURB AND GUTTER TAPER; SAWCUT POINT
C102	101+26.59 MPB	29.82LT	---	445588.11	787184.52	SAWCUT POINT
C103	101+57.02 MPB	27.99LT	1040.71	445585.85	787214.92	BEING TAPER
C104	103+07.28 MPB	14.95LT	---	445570.71	787364.99	END TAPER; END CURB AND GUTTER; BEING ASPHALT SHOULDER
C105	103+17.28 MPB	14.96LT	---	445570.58	787374.99	END ASPHALT SHOULDER; BEGIN BASE AGGREGATE SHOULDER
C106	103+74.79 MPB	14.90LT	---	445569.71	787432.50	END BASE AGGREGATE SHOULDER



REMOVING ASPAHLTIC INTERSECTION RUMBLE STRIPS REQ'D.
SEE MISC. QUANTITIES FOR ASSOCIATED BID ITEMS.
STA. 112+34 MPB

LEGEND

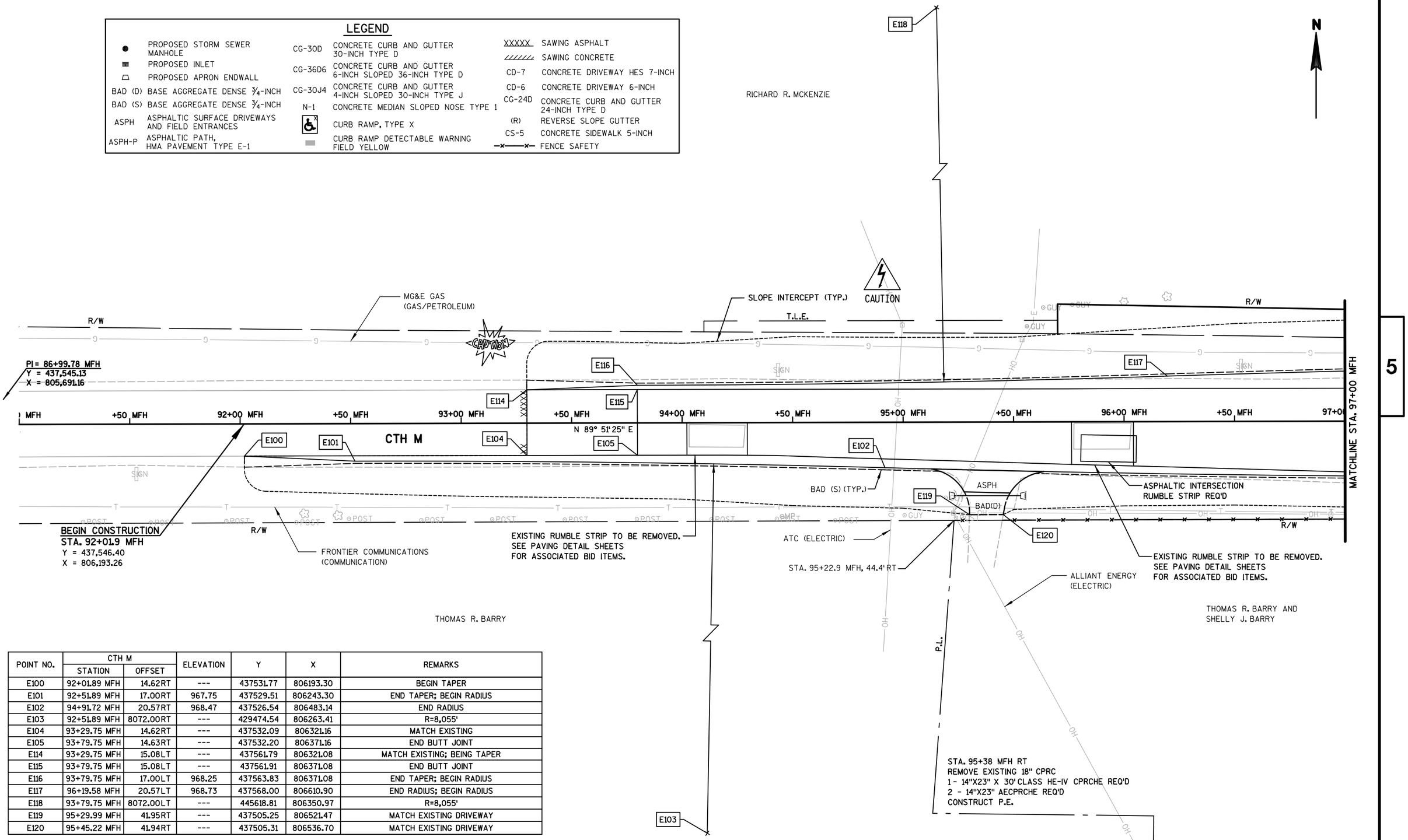
●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH		CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x—x—	FENCE SAFETY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - CTH M AT CTH PB	SHEET 723	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050203_pn_mpb.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

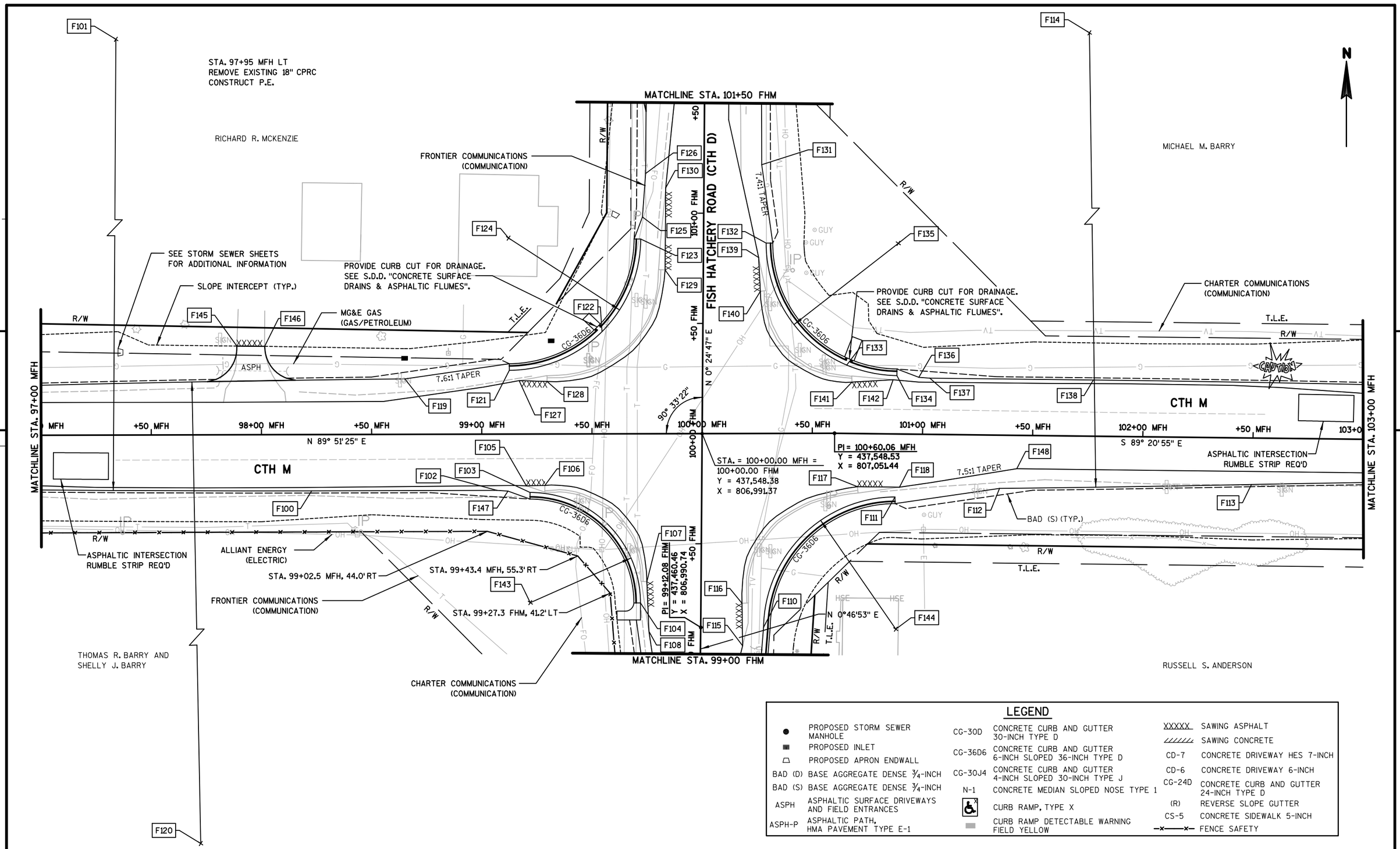
LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH		CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				–x——x–	FENCE SAFETY



POINT NO.	CTH M STATION	CTH M OFFSET	ELEVATION	Y	X	REMARKS
E100	92+01.89 MFH	14.62RT	---	437531.77	806193.30	BEGIN TAPER
E101	92+51.89 MFH	17.00RT	967.75	437529.51	806243.30	END TAPER; BEGIN RADIUS
E102	94+91.72 MFH	20.57RT	968.47	437526.54	806483.14	END RADIUS
E103	92+51.89 MFH	8072.00RT	---	429474.54	806263.41	R=8,055'
E104	93+29.75 MFH	14.62RT	---	437532.09	806321.16	MATCH EXISTING
E105	93+79.75 MFH	14.63RT	---	437532.20	806371.16	END BUTT JOINT
E114	93+29.75 MFH	15.08LT	---	437561.79	806321.08	MATCH EXISTING; BEING TAPER
E115	93+79.75 MFH	15.08LT	---	437561.91	806371.08	END BUTT JOINT
E116	93+79.75 MFH	17.00LT	968.25	437563.83	806371.08	END TAPER; BEGIN RADIUS
E117	96+19.58 MFH	20.57LT	968.73	437568.00	806610.90	END RADIUS; BEGIN RADIUS
E118	93+79.75 MFH	8072.00LT	---	445618.81	806350.97	R=8,055'
E119	95+29.99 MFH	41.95RT	---	437505.25	806521.47	MATCH EXISTING DRIVEWAY
E120	95+45.22 MFH	41.94RT	---	437505.31	806536.70	MATCH EXISTING DRIVEWAY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - CTH M AT FISH HATCHERY ROAD	SHEET 724	E



LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▪	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	♿	CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x—x—	FENCE SAFETY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - CTH M AT FISH HATCHERY ROAD	SHEET	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050206_pn_mfh.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

POINT NO.	CTH M		FISH HATCHERY ROAD		ELEVATION	Y	X	REMARKS
	STATION	OFFSET	STATION	OFFSET				
F100	98+22.72 MFH	25.50RT	---	---	968.69	437522.44	806814.16	END RADIUS
F101	98+22.72 MFH	11091.50LT	---	---	---	448639.40	806786.41	R=11,117'
F102	99+06.82 MFH	25.50RT	99+73.60 FHM	99.92LT	968.57	437522.65	806898.26	---
F103	99+21.81 MFH	26.50RT	99+72.74 FHM	77.93LT	968.62	437521.68	806913.25	BEGIN RADIUS; BEGIN CURB AND GUTTER
F104	99+71.81 MFH	76.76RT	99+22.97 FHM	27.44LT	967.45	437471.55	806963.38	END RADIUS; END CURB AND GUTTER
F105	99+20.18 MFH	23.48RT	99+75.74 FHM	79.59LT	---	437524.70	806911.61	SAWCUT POINT
F106	99+28.53 MFH	23.36RT	99+75.95 FHM	71.24LT	---	437524.84	806919.96	SAWCUT POINT
F107	99+74.75 MFH	67.12RT	99+32.64 FHM	24.60LT	---	437481.19	806966.29	SAWCUT POINT
F108	99+75.59 MFH	89.63RT	99+09.99 FHM	23.52LT	---	437458.69	806967.19	SAWCUT POINT
F110	100+27.65 MFH	87.97RT	99+12.31 FHM	28.50RT	967.43	437460.48	807019.24	BEGIN RADIUS; BEGIN CURB AND GUTTER
F111	100+87.84 MFH	28.55RT	99+71.91 FHM	87.71RT	968.30	437519.66	807078.88	END RADIUS; END CURB AND GUTTER
F112	101+35.22 MFH	24.13RT	---	---	968.46	437523.54	807126.31	END TAPER; BEGIN RADIUS
F113	102+49.50 MFH	21.08RT	---	---	968.39	437525.30	807240.62	END RADIUS
F114	100+49.42 MFH	11091.50LT	---	---	---	448639.97	807013.11	R=11,117'
F115	100+18.10 MFH	96.30RT	99+04.01 FHM	19.09RT	---	437452.13	807009.71	SAWCUT POINT
F116	100+17.88 MFH	77.00RT	99+23.18 FHM	18.63RT	---	437471.42	807009.45	SAWCUT POINT
F117	100+70.73 MFH	24.11RT	99+76.43 FHM	70.63RT	---	437524.30	807061.83	SAWCUT POINT
F118	100+89.83 MFH	24.11RT	99+76.35 FHM	89.72RT	---	437524.09	807080.92	SAWCUT POINT
F119	98+65.13 MFH	25.17LT	---	---	968.9	437573.21	806856.44	END RADIUS; BEGIN TAPER
F120	99+50.58 MFH	11091.50RT	---	---	---	426456.79	806969.63	R=11,117'
F121	99+12.56 MFH	28.94LT	100+28.09 FHM	87.71LT	968.64	437577.10	806903.86	BEGIN RADIUS; BEGIN CURB AND GUTTER
F122	99+54.65 MFH	46.38LT	100+45.93 FHM	45.80LT	968.17	437594.64	806945.91	LOW POINT; CURB CUT
F123	99+72.36 MFH	88.35LT	100+88.08 FHM	28.50LT	986.40	437636.66	806963.51	END RADIUS; END CURB AND GUTTER
F124	99+12.36 MFH	88.93LT	100+88.08 FHM	88.50LT	---	437637.09	806903.51	R=60'
F125	99+73.12 MFH	98.35LT	100+98.08 FHM	27.83LT	968.43	437646.66	806964.25	END TAPER
F126	---	---	101+17.85 FHM	26.50LT	968.5	437666.42	806965.72	---
F127	99+17.02 MFH	24.23LT	100+23.43 FHM	83.21LT	---	437572.41	806908.33	SAWCUT POINT
F128	99+29.67 MFH	23.84LT	100+23.16 FHM	70.56LT	---	437572.05	806920.98	SAWCUT POINT
F129	99+83.39 MFH	74.33LT	100+74.17 FHM	17.33LT	---	437622.67	806974.57	SAWCUT POINT
F130	99+83.75 MFH	111.55LT	101+11.39 FHM	17.33LT	---	437659.89	806974.84	SAWCUT POINT
F131	---	---	101+22.22 FHM	26.14RT	968.73	437670.41	807018.40	BEGIN TAPER; BEGIN RADIUS
F132	100+29.25 MFH	86.39LT	100+86.67 FHM	28.41RT	968.58	437634.84	807020.41	BEGIN RADIUS; BEGIN CURB AND GUTTER
F133	100+65.22 MFH	31.01LT	100+31.58 FHM	65.34RT	968.17	437579.48	807056.94	LOW POINT; CURB CUT
F134	100+88.05 MFH	26.50LT	100+26.97 FHM	88.16RT	968.3	437574.71	807079.72	END RADIUS; END CURB AND GUTTER
F135	100+88.05 MFH	86.50LT	100+86.97 FHM	88.41RT	---	437634.70	807080.41	R=60'
F136	100+98.05 MFH	25.83LT	100+26.26 FHM	98.16RT	968.41	437573.93	807089.71	END TAPER
F137	101+03.05 MFH	25.50LT	100+25.90 FHM	103.15RT	968.42	437573.54	807094.71	---
F138	101+77.24 MFH	25.50LT	---	---	968.43	437572.69	807168.89	BEGIN RADIUS; BEGIN CURB AND GUTTER
F139	100+25.84 MFH	79.86LT	100+80.10 FHM	25.07RT	---	437628.30	807017.02	SAWCUT POINT
F140	100+26.56 MFH	64.47LT	100+64.73 FHM	25.94RT	---	437612.92	807017.78	SAWCUT POINT
F141	100+67.70 MFH	23.31LT	100+23.86 FHM	67.79RT	---	437571.75	807059.33	SAWCUT POINT
F142	100+86.35 MFH	24.61LT	100+25.09 FHM	86.45RT	---	437572.84	807078.00	SAWCUT POINT
F143	99+21.81 MFH	76.50RT	99+22.74 FHM	77.44LT	---	437471.68	806913.38	R=50'
F144	100+88.87 MFH	88.54RT	99+12.08 FHM	88.50RT	---	437459.66	807079.24	R=60'
F145	97+88.93 MFH	40.27LT	---	---	---	437588.13	806780.20	MATCH EXISTING DRIVEWAY
F146	98+01.53 MFH	40.08LT	---	---	---	437587.97	806792.80	MATCH EXISTING DRIVEWAY
F147	99+11.81 MFH	25.83RT	99+73.31 FHM	87.93LT	968.57	437522.33	806903.25	---
F148	101+42.96 MFH	15.13RT	---	---	968.64	437532.45	807134.16	END TAPER

MICHEAL M. BARRY

TIMOTHY R. TURK AND
DEBRA K. TURK

JOHN C. BARGER AND
KAREN M. BARGER

STA. 103+54 MFH LT
REMOVE EXISTING 18" CPRC
CONSTRUCT F.E.

STA. 104+12 MFH LT
REMOVE EXISTING 18" CPCM
CONSTRUCT P.E.

STA. 106+62 MFH LT
REMOVE EXISTING 18" CPRC
1 - 14"X23" X 32' CPRCHE CLASS HE-IV REQ'D
2 - 14"X23" AECPRCHE REQ'D
CONSTRUCT P.E.

N

P.L.

P.L.

EXISTING RUMBLE STRIP TO BE REMOVED.
SEE PAVING DETAIL SHEETS
FOR ASSOCIATED BID ITEMS.

STA. 103+71.0 MFH, 58.0' LT

STA. 103+71.4 MFH, 40.3' LT

CHARTER COMMUNICATIONS
(COMMUNICATION)

SEE STORM SEWER
SHEETS FOR ADDITIONAL
INFORMATION

MG&E GAS
(GAS/PETROLEUM)

STA. 106+54.3 MFH, 40.4' LT

STA. 106+54.3 MFH, 33.4' LT

STA. 107+98.1 MFH, 40.4' LT

FRONTIER COMMUNICATIONS
(COMMUNICATION)

STA. 107+54.4 MFH, 40.4' LT

STA. 107+54.4 MFH, 33.4' LT

G121 G122 G125 G126 G119 G120 G123 G124 G104 G127 G129 G130 G128 G113 G114 G106 G108

T.L.E.

BAD(D)

ASPH

R/W

CAUTION

MATCHLINE STA. 103+00 MFH

0 MFH +50 MFH 104+00 MFH +50 MFH 105+00 MFH +50 MFH 106+00 MFH +50 MFH 107+00 MFH +50 MFH 108+00 MFH +50 MFH 109+0

S 89° 20' 55" E

EXISTING RUMBLE STRIP TO BE REMOVED.
SEE PAVING DETAIL SHEETS.

ASPHALTIC INTERSECTION
RUMBLE STRIP REQ'D

G100 G103 G102

CTH M

PI= 113+33.34 MFH
Y = 437,534.06
X = 808,324.63

BAD (S) (TYP.)

CP KL401

R/W

T.L.E.

R/W

END CONSTRUCTION
STA. 107+98.1 MFH

ALLIANT ENERGY
(ELECTRIC)

SLOPE INTERCEPT (TYP.)

STA. 104+59 MFH RT
EXISTING 24" CPCM
TO BE EXTENDED RT.
1 - 24" X 2' CPCS REQ'D.
1 - 24" AECPS REQ'D.

RUSSELL S. ANDERSON

G101 G105

BENCH MARKS/CONTROL POINTS

NO.	STATION/OFFSET	NORTHING	EASTING	ELEV.
CP KL401	105+23.23 MFH/38.56' RT	437,504.71	807,514.12	965.25

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH		CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x—x—	FENCE SAFETY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - CTH M AT FISH HATCHERY ROAD	SHEET 727	E

POINT NO.	CTH M		ELEVATION	Y	X	REMARKS
	STATION	OFFSET				
G100	105+05.87 MFH	17.00RT	967.88	437526.46	807497.02	END RADIUS; BEGIN TAPER
G101	105+05.87 MFH	8072.00RT	---	429471.98	807405.46	R=8,055'
G102	105+55.87 MFH	14.99RT	---	437527.91	807547.04	END TAPER; MATCH EXISTING
G103	105+05.87 MFH	14.93RT	---	437528.53	807497.05	BEGIN BUTT JOINT
G104	105+08.24 MFH	20.57LT	967.88	437564.00	807499.82	END RADIUS; BEGIN RADIUS
G105	101+77.24 MFH	11091.50RT	---	426456.41	807042.53	R=11,117'
G106	107+48.07 MFH	17.00LT	966.26	437557.71	807739.59	END RADIUS; BEGIN TAPER
G107	107+48.07 MFH	8072.00LT	---	445612.19	807831.15	R=8055'
G108	107+98.07 MFH	14.83LT	---	437554.96	807789.57	END TAPER; MATCH EXISTING
G109	103+69.69 MFH	0.00RT	---	437545.01	807361.04	MILLING ASPHALT POINT
G110	103+69.69 MFH	15.25LT	---	437560.26	807361.21	MILLING ASPHALT POINT
G111	103+96.45 MFH	14.93LT	---	437559.64	807387.97	MILLING ASPHALT POINT
G112	103+96.45 MFH	0.00RT	---	437544.70	8073877.80	MILLING ASPHALT POINT
G113	105+05.87 MFH	14.94LT	---	437558.40	807497.38	BEGIN BUTT JOINT
G114	105+55.87 MFH	14.89LT	---	437557.78	807547.38	END BUTT JOINT; MATCH EXISTING
G115	105+17.95 MFH	0.00RT	---	437543.32	807509.29	MILLING ASPHALT POINT
G116	105+17.95 MFH	14.97LT	---	437558.29	807509.46	MILLING ASPHALT POINT
G117	105+45.95 MFH	14.91LT	---	437557.91	807537.46	MILLING ASPHALT POINT
G118	105+45.95 MFH	0.00RT	---	437543.01	807537.29	MILLING ASPHALT POINT
G119	10343.70 MFH	34.25LT	---	437579.56	807335.44	---
G120	103+63.69 MFH	33.94LT	---	437579.01	807355.43	---
G121	103+43.83 MFH	46.52LT	---	437591.82	807335.71	MATCH EXISTING DRIVEWAY
G122	103+63.83 MFH	46.52LT	---	437591.59	807355.71	MATCH EXISTING DRIVEWAY
G123	104+05.60 MFH	33.16LT	---	437577.76	807397.33	---
G124	104+18.22 MFH	32.89LT	---	437577.35	807409.94	---
G125	104+06.55 MFH	39.01LT	---	437583.60	807398.34	MATCH EXISTING DRIVEWAY
G126	104+17.51 MFH	38.81LT	---	437583.28	807409.30	MATCH EXISTING DRIVEWAY
G127	106+56.60 MFH	27.52LT	---	437569.27	807648.24	---
G128	106+68.22 MFH	27.40LT	---	437569.01	807659.87	---
G129	106+57.51 MFH	32.45LT	---	437574.18	807649.22	MATCH EXISTING DRIVEWAY
G130	106+67.41 MFH	32.45LT	---	437574.07	807659.11	MATCH EXISTING DRIVEWAY

BARY BOTHUN AND
MARY MOTHUN

THOMAS R. BARRY AND
SHELLY J. BARRY

STA. 95+85 FHM LT
REMOVE EXISTING 18" CPCM
1 - 21"X15" X 22' PACS REQ'D
2 - 21"X15" AEPAS REQ'D
CONSTRUCT P.E.

STA. 97+68 FHM LT
REMOVE EXISTING 18" CPCM
1 - 21"X15" X 16' PACS REQ'D
2 - 21"X15" AEPAS REQ'D
CONSTRUCT P.E.

N

P.L.

CHARTER COMMUNICATIONS
(COMMUNICATION)

ALLIANT ENERGY
(ELECTRIC)

BEGIN CONSTRUCTION
STA. 93+16.9 FHM
Y = 436,865.37
X = 806,982.62

STA. 95+41.5 FHM, 32.2' LT

CHARTER COMMUNICATIONS
(COMMUNICATION)

FRONTIER COMMUNICATIONS
(COMMUNICATION)

STA. 98+33.5 FHM, 32.6' LT

R/W

BAD(D)

ASPH

BAD (S) (TYP.)

PI = 92+07.72 FHM
Y = 436,756.16
X = 806,981.13

+50 FHM | 94+00 FHM | +50 FHM | 95+00 FHM | +50 FHM | 96+00 FHM | +50 FHM | 97+00 FHM | +50 FHM | 98+00 FHM | +50 FHM | 99+00

MATCHLINE STA. 99+00 FHM

1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131

FISH HATCHERY ROAD (CTH D)

N 0° 46' 53" E

CAPTION

SLOPE INTERCEPT (TYP.)

T.L.E.

CHARTER COMMUNICATIONS
(COMMUNICATION)

MG&E GAS
(GAS/PETROLEUM)

RUSSELL S. ANDERSON

STA. 97+84 FHM RT
REMOVE EXISTING 18" CPCM
1 - 21"X15" X 18' PACS REQ'D
2 - 21"X15" AEPAS REQ'D
CONSTRUCT P.E.

STA. 98+86 FHM RT
REMOVE EXISTING 18" CPRC
CONSTRUCT P.E.

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
▱	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH		CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x—x—	FENCE SAFETY

5

5

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - FISH HATCHERY ROAD AT CTH M	SHEET 729	E

POINT NO.	FISH HATCHERY ROAD		ELEVATION	Y	X	REMARKS
	STATION	OFFSET				
1100	93+16.94 FHM	14.71RT	---	436865.17	806997.33	BEGIN TAPER; MATCH EXISTING; SAWCUT POINT
1101	93+66.94 FHM	18.00RT	962.95	436915.12	807001.30	END TAPER; BEGIN RADIUS
1102	95+51.30 FHM	21.45RT	963.54	437099.42	807007.26	END RADIUS; BEGIN RADIUS
1103	93+66.94 FHM	4952.00RT	---	436847.84	811934.84	R=4,934'
1104	98+21.75 FHM	26.50RT	966.41	437369.78	807016.00	END RADIUS
1105	98+21.75 FHM	7211.50LT	---	437468.48	799778.68	R=7,238'
1106	98+64.32 FHM	25.26RT	967.17	437412.36	807015.35	---
1107	95+41.52 FHM	11.00RT	---	437089.78	806996.68	END BUTT JOINT; MATCH EXISTING; SAWCUT POINT
1108	95+91.52 FHM	11.00RT	---	437139.78	806997.37	BEGIN BUTT JOINT
1109	97+76.87 FHM	35.36RT	---	437324.79	807024.25	---
1110	97+90.65 FHM	35.34RT	---	437338.56	807024.42	---
1111	97+76.70 FHM	45.12RT	---	437324.48	807034.01	MATCH EXISTING DRIVEWAY
1112	97+90.26 FHM	45.12RT	---	437338.04	807034.20	MATCH EXISTING DRIVEWAY
1113	95+41.52 FHM	11.00LT	---	437090.08	806974.69	END BUTT JOINT; MATCH EXISTING; SAWCUT POINT
1114	95+91.52 FHM	11.00LT	---	437140.08	806975.37	BEGIN BUTT JOINT
1115	95+41.52 FHM	14.52LT	---	437090.13	80697117	BEGIN TAPER; MATCH EXISTING; SAWCUT POINT
1116	95+69.77 FHM	17.00LT	963.78	437118.42	806969.07	END TAPER; BEGIN RADIUS
1117	97+51.65 FHM	20.18LT	965.55	437300.32	806968.37	END RADIUS; BEGIN RADIUS
1118	95+91.52 FHM	4052.00LT	---	437195.18	802934.74	R=4,035'
1119	98+80.17 FHM	23.89LT	967.16	437428.88	806966.41	END RADIUS; BEGIN TAPER
1120	99+49.58 FHM	5922.00RT	---	437455.27	812913.35	R=5,947'
1121	95+79.58 FHM	26.98LT	---	437128.36	806959.22	---
1122	95+90.29 FHM	26.98LT	---	437139.07	806959.37	---
1123	95+80.3 FHM	31.34LT	---	437129.14	806954.88	MATCH EXISTING DRIVEWAY
1124	95+90.02 FHM	31.35LT	---	437138.86	806955.00	MATCH EXISTING DRIVEWAY
1125	97+62.95 FHM	32.59LT	---	437311.79	806956.12	MATCH EXISTING DRIVEWAY
1126	97+73.16 FHM	32.60LT	---	437322.00	806956.24	MATCH EXISTING DRIVEWAY
1127	98+76.44 FHM	35.50RT	---	437424.34	807025.75	---
1128	98+94.24 FHM	35.50RT	---	437442.14	807025.99	---
1129	98+76.12 FHM	38.68RT	---	437423.98	807028.92	MATCH EXISTING DRIVEWAY
1130	98+94.49 FHM	38.73RT	---	437442.35	807029.23	MATCH EXISTING DRIVEWAY
1131	93+16.94 FHM	11.00RT	---	436865.22	806993.62	SAWCUT POINT

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
■	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH		CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				–x–x–	FENCE SAFETY

RICHARD R. MCKENZIE

BENCH MARKS/CONTROL POINTS ▲

NO.	STATION/OFFSET	NORTHING	EASTING	ELEV.
CP KL402	106+77.90 FHM/17.46'RT	438,226.30	807,012.21	972.60

POINT NO.	FISH HATCHERY ROAD STATION	FISH HATCHERY ROAD OFFSET	ELEVATION	Y	X	REMARKS
J100	103+16.98 FHM	21.59RT	969.29	437865.19	807015.25	END RADIUS; BEGIN RADIUS
J101	100+50.42 FHM	7211.50LT	---	437650.78	799780.42	R=7,238'
J102	104+55.44 FHM	18.43RT	971.70	438003.68	807013.09	END RADIUS
J103	104+98.69 FHM	4952.24RT	---	438011.35	811947.08	R=4,934'
J104	105+20.48 FHM	18.00RT	972.23	438068.88	807012.99	BEGIN TAPER
J105	105+70.48 FHM	14.20RT	---	438118.87	807009.11	END TAPER; MATCH EXISTING; SAWCUT POINT
J106	105+20.48 FHM	11.00RT	---	438068.87	807005.99	BEGIN BUTT JOINT
J107	105+70.48 FHM	11.00RT	---	438118.87	807005.91	END BUTT JOINT; MATCH EXISTING; SAWCUT POINT
J108	104+88.94 FHM	41.96RT	---	438037.01	807036.86	MATCH EXISTING DRIVEWAY
J109	105+04.27 FHM	41.91RT	---	438052.34	807036.92	MATCH EXISTING DRIVEWAY
J110	101+78.28 FHM	26.50LT	968.62	437726.84	806966.16	BEGIN RADIUS
J111	104+31.33 FHM	22.08LT	971.16	437979.85	806972.41	END RADIUS, BEGIN RADIUS
J112	101+78.28 FHM	7211.50RT	---	437674.67	814203.97	R=7,238'
J113	106+47.23 FHM	18.00LT	971.18	438195.57	806976.79	END RADIUS; BEGIN TAPER
J114	106+47.23 FHM	4952.00LT	---	438187.89	802042.79	R=4,934'
J115	106+97.23 FHM	14.48LT	---	438245.57	806980.23	END TAPER; MATCH EXISTING; SAWCUT POINT
J116	106+97.23 FHM	11.00LT	---	438245.58	806983.71	SAWCUT POINT
J117	105+70.48 FHM	11.00LT	---	438118.83	806983.91	END BUTT JOINT; MATCH EXISTING
J118	105+20.48 FHM	11.00LT	---	438068.83	806983.99	BEGIN BUTT JOINT
J119	101+62.80 FHM	41.78LT	---	437711.47	806950.76	MATCH EXISTING DRIVEWAY
J120	101+75.29 FHM	41.78LT	---	437723.97	806950.85	MATCH EXISTING DRIVEWAY

STA. 101+69 FHM LT
REMOVE EXISTING 18" CPRC
1 - 21"X15" X 22'PACS REQ'D
2 - 21"X15" AEPAS REQ'D
CONSTRUCT P.E.

MATCHLINE STA. 101+50 FHM

FISH HATCHERY ROAD (CTH D)

PI = 105+04.70 FHM
Y = 438,053.06
X = 806,995.01

PI = 112+50.87 FHM
Y = 438,799.23
X = 806,993.85

N 0° 24' 47" E

N 0° 05' 21" W

END CONSTRUCTION
STA. 106+97.2 FHM

CP KL402

CAUTION

T.L.E.

R/W

ASPH

BAD (S) (TYP.)

SLOPE INTERCEPT (TYP.)

CHARTER COMMUNICATIONS (COMMUNICATION)

FRONTIER COMMUNICATIONS (COMMUNICATION)

ALLIANT ENERGY (ELECTRIC)

MG&E GAS (GAS/PETROLEUM)

P.L.

STA. 104+97 FHM RT
REMOVE EXISTING 18" CPCM
1 - 21"X15" X 58'PACS REQ'D
2 - 21"X15" AEPAS REQ'D
CONSTRUCT P.E.

MICHAEL M. BARRY AND DARLENE KAY BARRY

PETER DAVID GILARDI

MICHAEL J. GRADY AND LYNN M. GRADY

MICHAEL M. BARRY AND DARLENE KAY BARRY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - FISH HATCHERY ROAD AT CTH M	SHEET 731	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050210_pn_fhm.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 44

CHAD C. CATLIN

CHARLES LANDRY

COLLEEN G. HAAS

KEVIN P. GORMAN

LUANN L. SKINNER

STA. 96+11 FHW LT
CONSTRUCT P.E.

STA. 96+43 FHW LT
CONSTRUCT P.E.

BENCH MARKS/CONTROL POINTS ▲

NO.	STATION/OFFSET	NORTHING	EASTING	ELEV.	DESCRIPTION
CP FHW55	99+76.27 FHW/25.57'RT	448,096.41	809,014.60	1065.25	---
BM 3	100+38.97 FHW/30.27'RT	448,157.06	809,031.00	1064.58	RR SPIKE IN PPOL

BEGIN CONSTRUCTION
STA. 95+83.59 FHW
Y = 447,715.57
X = 808,915.53

PI= 95+76.99 FHW
Y = 447,709.09
X = 808,914.28

PI= 96+60.42 WFH
Y = 448,123.74
X = 808,657.31

PI= 99+60.68 FHW
Y = 448,085.91
X = 808,986.56

PI= 100+44.08 FHW
Y = 448,167.78
X = 809,002.22

PI= 108+75.83 WFH
Y = 448,137.71
X = 809,869.67

PI= 100+69.17 WFH
Y = 448,124.88
X = 809,093.92

FISH HATCHERY ROAD (CTH D)

WHALEN ROAD

MATCHLNE STA. 101+00 FHW

CHARTER COMMUNICATIONS (COMMUNICATION)

MG&E ELECTRIC (ELECTRIC)

MG&E GAS (GAS/PETROLEUM)

FRONTIER COMMUNICATIONS (COMMUNICATION)

ATC (ELECTRIC)

CAUTION

STA. 98+45 WFH RT
REMOVE EXISTING 18" CPCM
1 - 21"X15" x 36'PACS REQ'D
2 - 21"X15" AECP REQ'D
CONSTRUCT P.E.

STA. 99+37 WFH
REMOVE EXISTING 24" CMCP
SEE STORM SEWER SHEETS
FOR ADDITIONAL INFORMATION

STA. 99+55 WFH
REMOVE EXISTING 30" CMCP
SEE STORM SEWER SHEETS
FOR ADDITIONAL INFORMATION

ASPHALTIC FLUMES REQ'D

ASHPALTIC FLUMES REQ'D

SLOPE INTERCEPT (TYP.)

BAD (S) (TYP.)

CS-5

ASPH-P 10'
5'

CG-30D

CG-36D6

CP FHW55

BM 3

STA. 100+00.00 FHW =
STA. 100+00.00 WFH

N 10° 40'56" E

N 10° 51'27" E

N 10° 49'50" E

N 10° 50'17" E

N 89° 52'04" E

N 89° 04'29" E

79° 02'13"

26:1 TAPER

10:1 TAPER

P.I.-1

T.L.E.

P.L.E.

R/W

ASPH

CAUTION

FHW
+50 FHW
96+00 FHW
+50 FHW
97+00 FHW
+50 FHW
98+00 FHW
+50 FHW
99+00 FHW
+50 FHW
100+00 FHW
+50 FHW
101+00 FHW
+50 WFH
98+00 WFH
99+00 WFH
100+00 WFH
101+00 WFH

K100 K101 K102 K103 K104 K105 K106 K107 K108 K109 K110 K111 K112 K113 K114 K115 K116 K117 K118 K119 K120 K121 K122 K123 K124 K125 K126 K127 K128 K129 K130 K131 K132 K133 K134 K135 K136 K137 K138 K139 K140 K141 K142 K143

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	♿	CURB RAMP, TYPE X
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1	XXXXX	SAWING ASPHALT
		//////	SAWING CONCRETE
		CD-7	CONCRETE DRIVEWAY HES 7-INCH
		CD-6	CONCRETE DRIVEWAY 6-INCH
		CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
		(R)	REVERSE SLOPE GUTTER
		CS-5	CONCRETE SIDEWALK 5-INCH
		–x–x–	FENCE SAFETY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - FISH HATCHERY ROAD AT WHALEN ROAD	SHEET 732	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050211_pn_fhw.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 44

5

5

POINT NO.	FISH HATCHERY ROAD		WHALEN ROAD		ELEVATION	Y	X	REMARKS
	STATION	OFFSET	STATION	OFFSET				
K100	95+83.59 FHW	11.00RT	---	---	---	447713.50	808926.33	BEGIN BUTT JOINT; MATCH EXISTING; SAWCUT POINT
K101	96+33.65 FHW	11.00RT	---	---	---	447762.66	808935.76	END BUTT JOINT
K102	95+83.59 FHW	10.94LT	---	---	---	447717.63	808904.78	BEGIN BUTT JOINT; MATCH EXISTING; SAWCUT POINT
K103	96+33.54 FHW	11.00LT	---	---	---	447766.69	808914.13	END BUTT JOINT
K104	95+83.59 FHW	14.48RT	---	---	---	447712.84	808929.75	MATCH EXISTING SHOULDER
K105	96+33.67 FHW	14.49RT	---	---	1062.00	447762.02	808939.19	BEGIN TAPER
K106	96+60.68 FHW	17.00RT	---	---	1062.11	447788.08	808946.74	END TAPER
K107	99+72.76 FHW	17.01RT	100+11.52 WFH	29.97RT	---	448094.57	809005.53	SAWCUT POINT
K108	99+72.77 FHW	11.00RT	100+05.62 WFH	28.82RT	---	448095.71	808999.63	SAWCUT POINT; BEGIN BUTT JOINT
K109	100+33.36 FHW	17.00RT	100+23.03 WFH	29.52LT	---	448154.09	809016.91	SAWCUT POINT
K110	100+33.36 FHW	11.00RT	100+17.14 WFH	30.66LT	---	448155.22	809011.02	SAWCUT POINT; BEGIN BUTT JOINT
K111	100+64.15 FHW	10.45RT	100+64.15 WFH	10.45RT	---	448114.22	809058.12	END BUTT JOINT
K112	100+63.99 FHW	9.57LT	100+63.99 WFH	9.57LT	---	448134.24	809057.91	END BUTT JOINT
K113	95+83.59 FHW	13.75LT	---	---	---	447718.16	808902.02	MATCH EXISTING SHOULDER
K114	96+33.53 FHW	13.66LT	---	---	1062.15	447767.18	808911.52	BEGIN TAPER
K115	96+56.48 FHW	15.89LT	---	---	1062.27	447790.15	808913.65	END TAPER
K116	96+74.54 FHW	17.17LT	---	---	1062.37	447808.12	808915.80	BEGIN CURB AND GUTTER; BEGIN RADIUS
K117	97+34.47 FHW	21.63LT	---	---	1062.72	447867.82	808922.71	END RADIUS; BEGIN RADIUS
K118	96+60.54 FHW	610.00LT	---	---	---	447906.04	808330.94	R=593'
K119	98+36.32 FHW	28.00LT	---	---	1063.73	447969.05	808935.63	END RADIUS
K120	98+36.32 FHW	789.00RT	---	---	---	447815.15	809738.01	R=817'
K121	99+18.64 FHW	28.00LT	99+57.02 WFH	74.53RT	1065.05	448049.89	808951.14	BEGIN RADIUS
K122	99+67.76 FHW	87.53LT	99+07.94 WFH	15.00RT	1066.76	448109.31	808901.92	END RADIUS; END CURB AND GUTTER
K123	99+18.64 FHW	78.00LT	99+07.94 WFH	65.00RT	---	448059.31	808902.03	R=50'
K124	99+66.19 FHW	97.41LT	98+97.94 WFH	14.67RT	1066.89	448109.62	808891.92	BEGIN TAPER
K125	99+48.61 FHW	206.59LT	97+87.42 WFH	11.06RT	---	448112.97	808781.39	END TAPER; BEGIN BUTT JOINT
K126	99+39.14 FHW	255.69LT	97+37.42 WFH	11.00RT	---	448112.92	808731.39	END BUTT JOINT; MATCH EXISTING
K127	96+05.54 FHW	25.97LT	---	---	---	447742.02	808894.16	MATCH EXISTING DRIVEWAY
K128	96+17.20 FHW	25.98LT	---	---	---	447753.47	808896.34	MATCH EXISTING DRIVEWAY
K129	96+35.94 FHW	26.10LT	---	---	---	447771.90	808899.75	MATCH EXISTING DRIVEWAY
K130	96+49.35 FHW	26.60LT	---	---	---	447785.16	808901.79	MATCH EXISTING DRIVEWAY
K131	---	---	98+48.92 WFH	28.00RT	---	448096.17	808842.93	MATCH EXISTING DRIVEWAY
K132	---	---	98+35.70 WFH	28.01RT	---	448096.13	808829.71	MATCH EXISTING DRIVEWAY
K133	---	---	97+37.42 WFH	10.94LT	---	448134.86	808731.34	END BUTT JOINT; MATCH EXISTING
K134	---	---	97+87.42 WFH	10.89LT	---	448134.92	808781.34	BEGIN BUTT JOINT; BEGIN TAPER
K135	100+08.42 FHW	83.71LT	99+19.42 WFH	24.19LT	1066.79	448148.53	808913.31	END TAPER
K136	100+07.79 FHW	75.44LT	99+27.42 WFH	22.00LT	1066.79	448146.35	808921.31	BEGIN CURB AND GUTTER; BEGIN RADIUS
K137	100+51.96 FHW	39.00LT	99+71.60 WFH	58.44LT	1067.79	448182.89	808965.41	END RADIUS
K138	100+51.96 FHW	84.00LT	99+27.42 WFH	67.00LT	---	448191.35	808921.21	R=45'
K139	100+20.66 FHW	56.00LT	99+48.95 WFH	30.94LT	---	448155.34	808942.82	BEGIN BIKE PATH
K140	100+34.08 FHW	46.00LT	99+61.32 WFH	42.21LT	---	448166.64	808955.17	BEGIN BIKE PATH
K141	100+13.28 FHW	61.01LT	99+42.63 WFH	24.65LT	1066.61	448149.04	808936.52	LOW POINT; CURB CUT
K142	100+51.96 FHW	46.00LT	99+64.72 WFH	59.77LT	1068.61	448184.21	808958.53	---
K143	100+40.08 FHW	46.00LT	99+62.46 WFH	48.10LT	1067.74	448172.53	808956.30	BEGIN CURB RAMP

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
■	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	♿	CURB RAMP, TYPE X
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	▬	CURB RAMP DETECTABLE WARNING FIELD YELLOW
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1	XXXXX	SAWING ASPHALT
		//////	SAWING CONCRETE
		CD-7	CONCRETE DRIVEWAY HES 7-INCH
		CD-6	CONCRETE DRIVEWAY 6-INCH
		CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
		(R)	REVERSE SLOPE GUTTER
		CS-5	CONCRETE SIDEWALK 5-INCH
		–x–x–	FENCE SAFETY

CURVE FHW-1
P.I. = 103+50.53 FHW
Y = 448,468.81
X = 809,059.85
DELTA = 5° 46' 50" (LT)
D = 2° 12' 47"
T = 130.71'
L = 261.21'
R = 2,589.00'
P.C. = 102+19.82 FHW
P.T. = 104+81.02 FHW

CITY OF FITCHBURG

COLLEEN G. HAAS

STA. 103+35 FHW LT
CONSTRUCT P.E.

SLOPE INTERCEPT (TYP.)

T.L.E.

R/W

FRONTIER COMMUNICATIONS
(COMMUNICATION)

ASPHALTIC FLUME
REQ'D

P.I.

L101 L102 L103 L106 L107 L108 L109 L110 L111 L112 L113 L114 L115 L123 L124 L125 L126 L127 L128 L129 L130 L131 L132 L133 L134 L135 L136 L137 L138 L139 L140 L141 L142 L143 L144

CG-30D

10'

5'

ASPH

CD-7

CD-7

ASPH-P

2%

6%

FISH HATCHERY ROAD (CTH D)

CURVE FHW-1

FHW

+50 FHW

102+00 FHW

103+00 FHW

104+00 FHW

105+00 FHW

106+00 FHW

107+00

N 10° 50' 17" E

N 5° 03' 27" E

N 4° 35' 17" E

PC 102+19.82 FHW

PI 103+50.53 FHW

PT 104+81.02 FHW

PI= 106+45.30 FHW
Y = 448,762.65
X = 809,085.86

MATCHLINE STA. 101+00 FHW

MATCHLINE STA. 107+00 FHW

CAUTION

BAD (S) (TYP.)

CHARTER COMMUNICATIONS
(COMMUNICATION)

MG&E GAS
(GAS/PETROLEUM)

MG&E ELECTRIC
(ELECTRIC)

LUANN L. SKINNER

BRIAN W. MCKEE AND
LINDA L MCKEE

SCHLEY FAMILY TRUST

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - FISH HATCHERY ROAD AT WHALEN ROAD	SHEET 734	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050212_pn_fhw.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 44

POINT NO.	FISH HATCHERY ROAD		ELEVATION	Y	X	REMARKS
	STATION	OFFSET				
L100	102+19.82 FHW	17.00RT	1071.83	448337.23	809051.97	BEGIN RADIUS
L101	104+81.02 FHW	17.00RT	1071.48	448597.51	809088.31	END RADIUS
L102	102+19.82 FHW	2589.00LT	---	448827.24	806492.45	R=2,606'
L103	105+50.00 FHW	17.00RT	1069.76	448666.22	809094.39	BEGIN TAPER
L106	101+61.90 FHW	39.00LT	1069.98	448290.87	808986.08	BEGIN RADIUS
L107	102+52.64 FHW	26.59LT	1071.37	448377.36	809015.06	END RADIUS; BEGIN RADIUS
L108	100+97.30 FHW	780.28RT	---	448073.37	809778.59	R=821.8'
L109	102+99.67 FHW	18.47LT	1071.96	448421.98	809030.84	END RADIUS; BEGIN RADIUS
L110	104+08.29 FHW	602.05LT	---	448596.56	808465.97	R=591.2'
L111	103+47.67 FHW	17.00LT	1072.06	448468.91	809039.37	END RADIUS; BEGIN RADIUS
L112	103+47.67 FHW	612.00LT	---	448551.81	808450.17	R=595'
L113	104+81.02 FHW	17.00LT	1070.93	448600.51	809054.44	END RADIUS
L114	102+19.82 FHW	2589.00LT	---	448827.24	806492.45	R=2,572'
L115	105+50.00 FHW	17.00LT	1069.43	448669.22	809060.52	END CURB AND GUTTER
L123	101+58.13 FHW	46.00LT	1070.77	448288.48	808978.49	BEING RADIUS
L124	101+66.47 FHW	45.65LT	1070.88	448296.62	808980.41	END RADIUS; BEGIN RADIUS
L125	101+58.13 FHW	54.00RT	---	448269.68	809076.71	R=100'
L126	102+54.59 FHW	33.34LT	1072.232	448380.45	809008.76	END RADIUS; BEGIN RADIUS
L127	100+97.29 FHW	780.29RT	---	448073.37	809778.60	R=828.8'
L128	102+94.92 FHW	26.23LT	1072.76	448418.56	809022.42	END RADIUS; BEGIN RADIUS
L129	104+08.29 FHW	602.05LT	---	448596.56	808465.97	R=584.2'
L130	103+05.90 FHW	25.12LT	1072.64	448429.12	809025.23	END RADIUS; BEGIN RADIUS
L131	103+12.19 FHW	134.95LT	---	448452.08	808917.65	R=110'
L132	103+47.67 FHW	24.00RT	1072.50	448469.88	809032.44	END RADIUS; BEGIN RADIUS
L133	103+47.67 FHW	612.00LT	---	448551.81	808450.17	R=588'
L134	104+35.78 FHW	24.00LT	1072.10	448556.51	809043.13	END RADIUS; BEGIN RADIUS
L135	102+19.82 FHW	2589.00LT	---	448827.24	806492.45	R=2,565'
L136	104+50.65 FHW	24.95LT	1071.91	448571.26	809043.70	END RADIUS; BEGIN TAPER
L137	104+35.78 FHW	134.00LT	---	448568.12	808933.74	R=110'
L138	105+63.32 FHW	38.32LT	1069.30	448684.37	809040.46	END TAPER; BEGIN RADIUS
L139	105+74.98 FHW	39.00LT	1069.07	448696.04	809040.81	END RADIUS; BEGIN PATH XSLOPE TRANSITION
L140	105+74.98 FHW	61.00RT	---	448687.23	809140.42	R=100'
L141	106+45.61 FHW	39.00LT	1067.00	448766.09	809047.01	---
L142	106+00.00 FHW	39.00LT	1068.32	448720.96	809043.02	END PATH XSLOPE TRANSITION
L143	103+28.89 FHW	55.43LT	---	448456.07	808998.69	MATCH EXISTING DRIVEWAY
L144	103+38.84 FHW	55.60LT	---	448465.73	808999.93	MATCH EXISTING DRIVEWAY

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
■	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL			CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP, TYPE X	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1		CURB RAMP DETECTABLE WARNING FIELD YELLOW	CS-5	CONCRETE SIDEWALK 5-INCH
				–x–x–	FENCE SAFETY

BENCH MARKS/CONTROL POINTS ▲

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
BM 2	110+69.86 FHW/29.16' RT	SPIKE SET IN WEST FACE OF POWER POLE, NORTH OF WHALEN, EAST SIDE OF FISH HATCHERY, ACROSS FROM RECYCLING CENTER	1064.08

N

CITY OF FITCHBURG

STA. 108+73 FHW LT
REMOVE EXISTING 18" CMCP
CONSTRUCT P.E.

SEE STORM SEWER SHEETS FOR ADDITIONAL INFORMATION

SLOPE INTERCEPT (TYP.)

R/W

FRONTIER COMMUNICATIONS (COMMUNICATION)

M101 M102 M103 M100

ASPH-P 10' CD-7 ASPH

PI = 109+20.95 FHW
Y = 449,037.41
X = 809,107.96

PI = 112+46.48 FHW
Y = 449,362.04
X = 809,132.22

MATCHLINE STA. 107+00 FHW

108+00 FHW +50 FHW 109+00 FHW +50 FHW 110+00 FHW +50 FHW 111+00 FHW +50 FHW 112+00 FHW

N 4° 35' 55" E

N 4° 16' 26" E

FISH HATCHERY ROAD (CTH D)

END CONSTRUCTION
STA. 108+96.29 FHW

CAUTION

BM 2

R/W

MG&E GAS (GAS/PETROLEUM)

MG&E ELECTRIC (ELECTRIC)

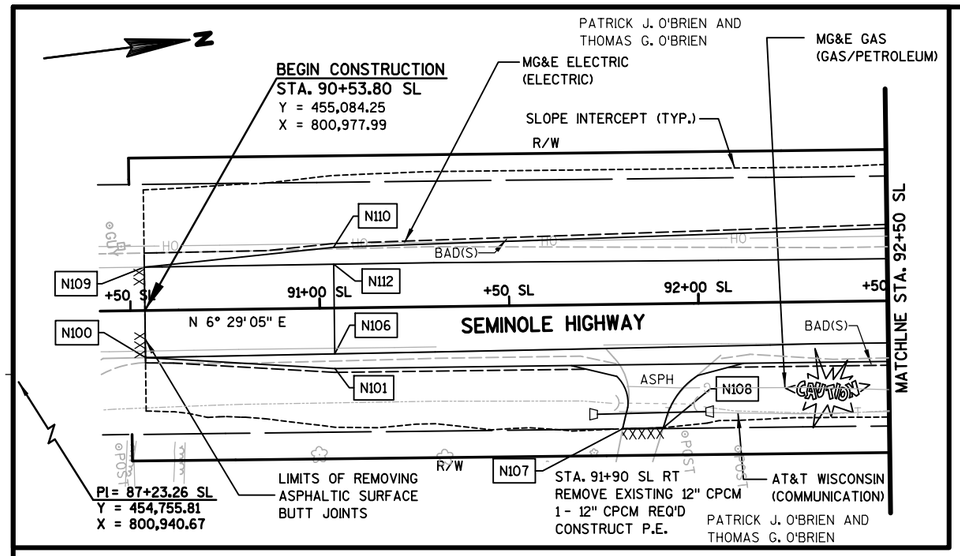
CHARTER COMMUNICATIONS (COMMUNICATIONS)

P.L.

SCHLEY FAMILY TRUST

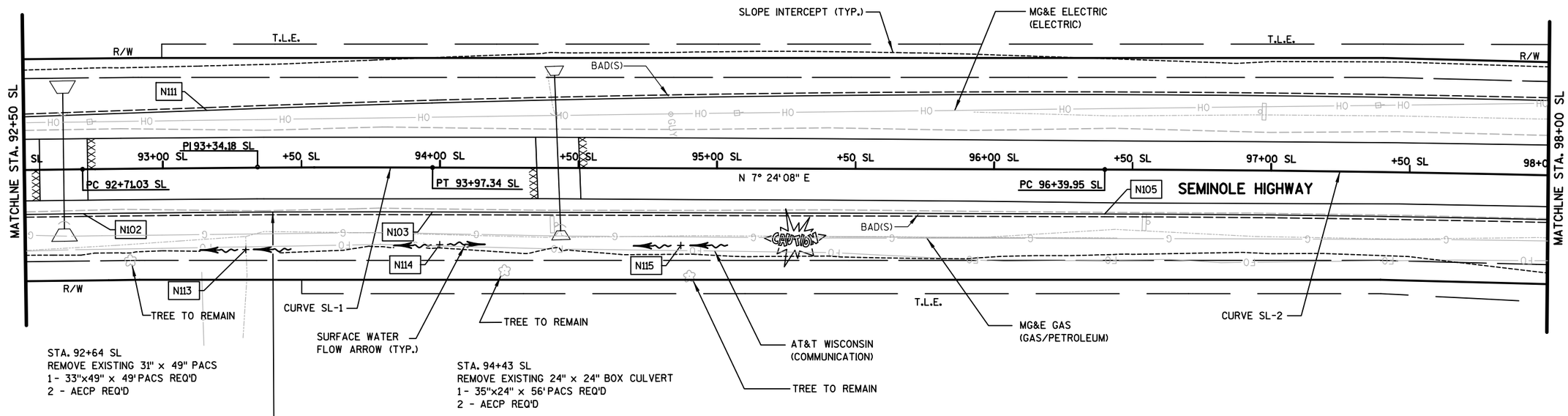
CMG INVESTMENTS LLC.

POINT NO.	FISH HATCHERY ROAD STATION	FISH HATCHERY ROAD OFFSET	ELEVATION	Y	X	REMARKS
M100	108+57.6 FHW	26.63LT	---	448976.40	809076.34	MATCH EXISTING DRIVEWAY; SAWCUT POINT
M101	108+59.64 FHW	49.00LT	---	448980.23	809054.20	MATCH EXISTING DRIVEWAY; SAWCUT POINT
M102	108+87.71 FHW	49.00LT	---	449008.21	809056.45	MATCH EXISTING DRIVEWAY; SAWCUT POINT
M103	108+96.29 FHW	29.00LT	---	449015.15	809077.07	MATCH EXISTING DRIVEWAY; SAWCUT POINT



POINT NO.	SEMINOLE HIGHWAY		ELEVATION	Y	X	REMARKS
	STATION	OFFSET				
N100	90+53.80 SL	12.43RT	---	455082.85	800990.34	BEGIN BUTT JOINT; BEGIN TAPER; MATCH EXISTING
N101	91+03.80 SL	16.00RT	1021.59	455132.12	800999.53	END TAPER
N102	92+71.03 SL	16.00RT	1021.53	455298.28	801018.41	BEGIN RADIUS
N103	93+97.34 SL	16.00RT	1021.64	455423.41	801033.65	END RADIUS
N104	92+71.03 SL	7870.00RT	---	454411.54	808822.20	R=7,854'
N105	96+39.95 SL	16.00RT	1021.62	455664.00	801064.91	BEGIN RADIUS
N106	91+03.80 SL	12.09RT	---	455132.56	800995.65	END BUTT JOINT
N107	91+79.55 SL	32.86RT	---	455205.48	801024.84	MATCH EXISTING DRIVEWAY
N108	91+90.25 SL	32.75RT	---	455216.13	801025.94	MATCH EXISTING DRIVEWAY
N109	90+53.80 SL	11.46LT	---	455085.54	800966.61	BEGIN BUTT JOINT; BEGIN TAPER; MATCH EXISTING
N110	91+03.80 SL	16.00LT	1021.73	455135.74	800967.73	END TAPER
N111	93+15.99 SL	20.77LT	1021.54	455347.21	800987.10	BEGIN RADIUS
N112	91+03.80 SL	11.56LT	---	455135.23	800972.16	END BUTT JOINT
N113	93+29.67 SL	29.55RT	1017.50	455354.89	801038.65	DITCH BOTTOM
N114	94+00.00 SL	27.79RT	1018.04	455424.53	801045.69	DITCH BOTTOM; HIGH POINT
N115	94+87.00 SL	27.84RT	1018.12	455510.80	801056.94	DITCH BOTTOM

PATRICK J. O'BRIEN AND
THOMAS G. O'BRIEN



CURVE SL-1
P.I. = 93+34.18 SL
Y = 455,362.84
X = 801,009.65
DELTA = 0° 55' 10" (RT)
D = 0° 43' 41"
T = 63.16'
L = 126.31'
R = 7,870.00'
P.C. = 92+71.03 SL
P.T. = 93+97.34 SL

CURVE SL-2
P.I. = 98+08.50 SL
Y = 455,833.20
X = 801,070.75
DELTA = 2° 27' 14" (RT)
D = 0° 43' 41"
T = 168.55'
L = 337.04'
R = 7,870.00'
P.C. = 96+39.95 SL
P.T. = 99+76.99 SL

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
▱	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH		CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x——x—	FENCE SAFETY

MATCHLNE STA. 98+00 LR

ANNA M. O'BRIEN

N

STA. 98+00 LR RT
CONSTRUCT P.E.

STA. 98+83 LR LT
EXISTING 15" CPCM
TO BE EXTENDED LT
1 - 15" CPCM REQ'D
1 - 15" AECP REQ'D

WISCONSIN INDEPENDENT
NETWORK (COMMUNICATION)

STA. 98+83 LR RT
EXISTING 15" CPCM
TO BE EXTENDED RT
1 - 15" CPCM REQ'D
1 - 15" AECP REQ'D

AT&T WISCONSIN
(COMMUNICATION)

MICH-WISC PIPE LINE CO.

CHARTER COMMUNICATIONS
(COMMUNICATION

PATRICK J. O'BRIEN AND
THOMAS G. O'BRIEN

ASPHALTIC
FLUME REQ'D

PROVIDE CURB CUT FOR DRAINAGE.
SEE S.D.D. "CONCRETE SURFACE
DRAINS & ASPHALTIC FLUMES".

SLOPE INTERCEPT (TYP.)

MG&E ELECTRIC
(ELECTRIC)

CHARTER COMMUNICATIONS
(COMMUNICATION

AT&T WISCONSIN
(COMMUNICATION)

CURVE SL-2
P.I. = 98+08.50 SL
Y = 455,833.20
X = 801,070.75
DELTA = 2° 27' 14" (RT)
D = 0° 43' 41"
T = 168.55'
L = 337.04'
R = 7,870.00'
P.C. = 96+39.95 SL
P.T. = 99+76.99 SL

STA. 100+73 LR RT
EXISTING 45" x 29" CPRC
TO BE EXTENDED RT
1 - 45" x 29" CPRCHE CLASS IV REQ'D
1 - AECPHE REQ'D
REMOVING APRON ENDWALL REQ'D

STA. 100+80 LR RT
EXISTING 45" x 29" CPRC
TO BE EXTENDED RT
1 - 45" x 29" CPRCHE CLASS IV REQ'D
1 - AECPHE REQ'D
REMOVING APRON ENDWALL REQ'D

PATRICK J. O'BRIEN AND
THOMAS G. O'BRIEN

MG&E ELECTRIC
(ELECTRIC)

STA. = 100+00.00 SL =
100+00.00 LR
Y = 456,021.84
X = 801,104.04

PI= 99+38.86 LR
Y = 456,021.68
X = 801,052.90

PI= 100+94.05 LR
Y = 456,022.13
X = 801,198.03

LACY ROAD

STA. 100+73 LR LT
EXISTING 45" x 29" CPRC
TO BE EXTENDED LT
1 - 45" x 29" CPRCHE
CLASS IV REQ'D
1 - AECPHE REQ'D
REMOVING APRON ENDWALL REQ'D

STA. 100+80 LR LT
EXISTING 45" x 29" CPRC
TO BE EXTENDED LT
1 - 45" x 29" CPRCHE
CLASS IV REQ'D
1 - AECPHE REQ'D
REMOVING APRON ENDWALL REQ'D

PROVIDE CURB CUT FOR DRAINAGE.
SEE S.D.D. "CONCRETE SURFACE
DRAINS & ASPHALTIC FLUMES".

AT&T WISCONSIN
(COMMUNICATION)

SEMINOLE HIGHWAY

MATCHLNE STA. 101+50 LR

MATCHLNE STA. 98+00 SL

MATCHLNE STA. 104+00 SL

BENCH MARKS/CONTROL POINTS △

NO.	STATION/OFFSET	NORTHING	EASTING	ELEV.
CP 5 (REBAR W/ CAP)	99+15.23 LR/43.00'RT	455,978.20	801,019.94	1021.92

PAYNE & DOLAN, INC.

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	♿	CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	▩	CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x—x—	FENCE SAFETY

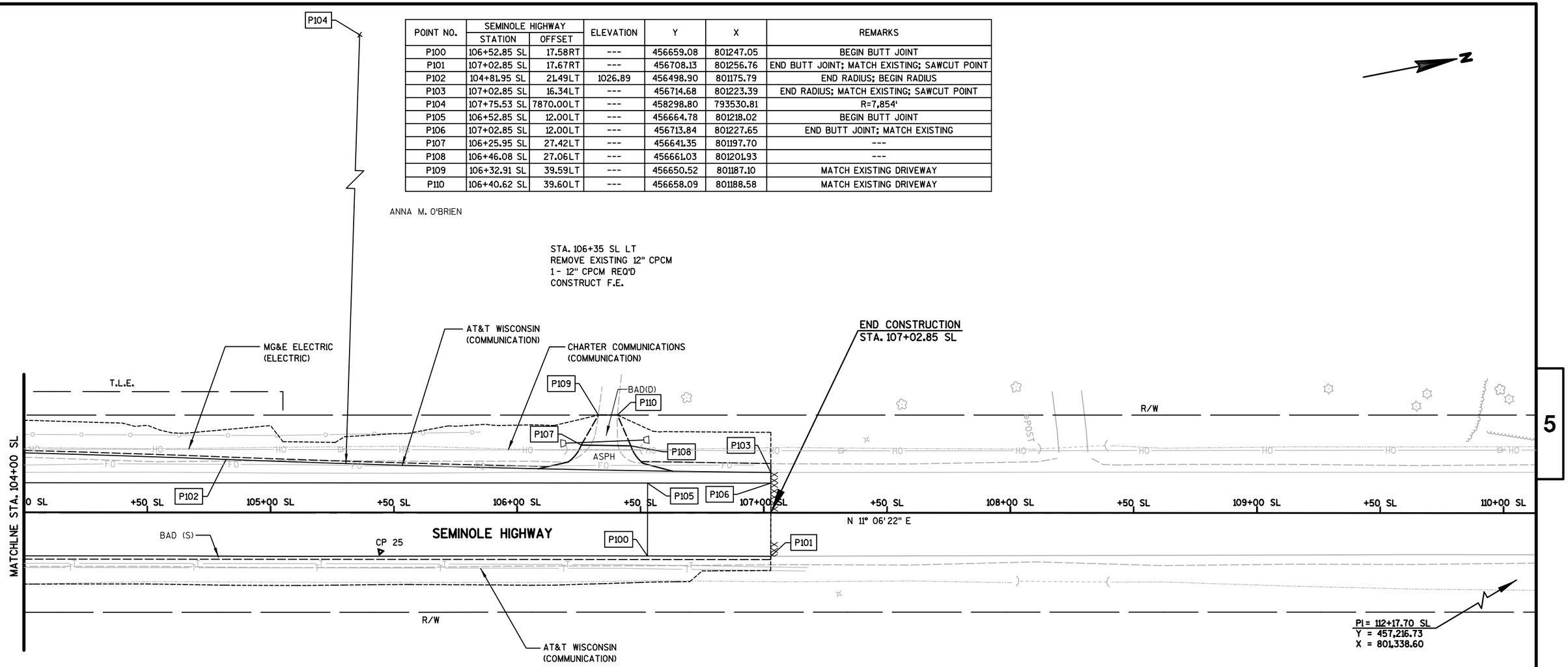
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - SEMINOLE HIGHWAY AT LACY ROAD	SHEET 738	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\050215_pn_sl.dgn PLOT DATE : 3/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 44

POINT NO.	SEMINOLE HIGHWAY		LACY ROAD		ELEVATION	Y	X	REMARKS
	STATION	OFFSET	STATION	OFFSET				
0100	99+28.84 SL	16.00RT	100+03.03 LR	72.69RT	1023.23	455949.15	801107.29	END RADIUS; BEGIN TAPER
0101	101+48.68 SL	7868.13RT	---	---	---	454652.13	808853.45	R=7,853.2'
0102	99+38.78 SL	16.00RT	100+04.70 LR	62.91RT	1023.34	455958.94	801108.93	BEGIN CURB AND GUTTER
0103	99+89.59 SL	57.12RT	100+53.98 LR	21.39RT	1024.60	456000.62	801158.08	END CURB AND GUTTER
0104	---	---	101+27.06 LR	17.26RT	---	456005.45	801231.40	END TAPER; SAWCUT POINT
0105	---	---	101+27.06 LR	12.26RT	---	456010.45	801231.31	SAWCUT POINT
0106	100+45.70 SL	90.79RT	100+98.37 LR	27.00LT	1024.55	456049.20	801201.93	BEGIN TAPER
0107	100+43.71 SL	81.48RT	100+88.46 LR	26.92LT	1024.65	456049.03	801192.41	BEGIN CURB AND GUTTER
0108	100+92.16 SL	20.99RT	100+38.62 LR	86.27LT	1024.58	456108.23	801142.39	END CURB AND GUTTER
0109	101+62.19 SL	17.38RT	---	---	1025.34	456177.64	801152.33	END TAPER
0110	101+64.99 SL	17.38RT	---	---	---	456180.39	801152.87	SAWCUT POINT
0111	101+65.00 SL	12.00RT	---	---	---	456181.44	801147.60	SAWCUT POINT
0112	98+85.08 SL	27.00RT	---	---	1022.49	455912.92	801057.75	END RADIUS; BEGIN TAPER
0113	101+48.68 SL	7868.13RT	---	---	---	454652.13	808853.45	R=7,897'
0114	99+26.99 SL	28.12LT	99+59.22 LR	67.10RT	1022.96	455954.61	801063.46	BEGIN CURB AND GUTTER
0115	99+69.90 SL	81.34LT	99+13.97 LR	15.01RT	1024.32	456006.13	801018.24	END CURB AND GUTTER
0116	99+68.07 SL	91.17LT	99+03.97 LR	15.01RT	1024.29	456005.97	801008.24	END TAPER
0117	---	---	99+00.00 LR	11.00RT	---	456009.92	801004.21	BEGIN BUTT JOINT; SAWCUT POINT
0118	---	---	98+50.00 LR	11.00RT	---	456009.15	800954.22	END BUTT JOINT; SAWCUT POINT
0119	---	---	98+50.00 LR	11.00LT	---	456031.14	800953.88	END BUTT JOINT; SAWCUT POINT
0120	---	---	99+00.00 LR	10.98LT	---	456031.90	801003.87	BEGIN BUTT JOINT; SAWCUT POINT
0121	---	---	99+04.20 LR	14.99LT	1024.33	456035.97	801008.01	BEGIN TAPER
0122	100+01.61 SL	67.61LT	99+34.20 LR	14.99LT	1024.42	456036.44	801038.00	BEGIN CURB AND GUTTER
0123	100+19.05 SL	39.14LT	99+65.34 LR	26.34LT	1024.26	456048.07	801069.29	LOW POINT; CURB CUT
0124	100+50.52 SL	28.00LT	99+82.42 LR	55.02LT	1024.41	456076.80	801086.29	END CURB AND GUTTER
0125	100+60.52 SL	27.00LT	99+85.36 LR	64.63LT	1024.45	456086.42	801089.20	END TAPER
0126	101+87.18 SL	27.00LT	---	---	1025.27	456210.71	801113.60	BEGIN RADIUS
0127	101+87.18 SL	7859.00RT	---	---	---	454691.67	808851.91	R=7,886'
0128	---	---	98+12.87 LR	26.01RT	---	455993.56	800917.33	---
0129	---	---	98+16.88 LR	30.38RT	---	455989.26	800921.41	MATCH EXISTING DRIVEWAY
0130	100+53.57 SL	39.73RT	100+49.44 LR	44.76LT	1024.37	456066.75	801153.34	LOW POINT; CURB CUT
0131	99+69.33 SL	62.02LT	99+32.85 LR	19.17RT	1024.14	456002.27	801037.18	---
0132	100+50.52 SL	78.00LT	99+34.20 LR	64.99LT	---	456086.43	801037.23	R=50'
0133	100+92.59 SL	70.99RT	100+87.73 LR	76.92LT	---	456099.02	80119153	R=50'
0134	99+43.92 SL	58.50RT	100+47.45 LR	65.09RT	---	455956.89	80115169	R=50'
0135	99+26.09 SL	73.12LT	99+13.97 LR	60.01RT	---	455961.13	801018.94	R=45'
0136	99+61.08 SL	48.23RT	100+40.25 LR	46.54RT	1020.49	455975.42	801144.43	DITCH BOTTOM

POINT NO.	SEMINOLE HIGHWAY		ELEVATION	Y	X	REMARKS
	STATION	OFFSET				
P100	106+52.85 SL	17.58RT	---	456659.08	801247.05	BEGIN BUTT JOINT
P101	107+02.85 SL	17.67RT	---	456708.13	801256.76	END BUTT JOINT; MATCH EXISTING; SAWCUT POINT
P102	104+81.95 SL	21.49LT	1026.89	456498.90	801175.79	END RADIUS; BEGIN RADIUS
P103	107+02.85 SL	16.34LT	---	456714.68	801223.39	END RADIUS; MATCH EXISTING; SAWCUT POINT
P104	107+75.53 SL	7870.00LT	---	458298.80	793530.81	R=7,854'
P105	106+52.85 SL	12.00LT	---	456664.78	801218.02	BEGIN BUTT JOINT
P106	107+02.85 SL	12.00LT	---	456713.84	801227.65	END BUTT JOINT; MATCH EXISTING
P107	106+25.95 SL	27.42LT	---	456641.35	801197.70	---
P108	106+46.08 SL	27.06LT	---	456661.03	801201.93	---
P109	106+32.91 SL	39.59LT	---	456650.52	801187.10	MATCH EXISTING DRIVEWAY
P110	106+40.62 SL	39.60LT	---	456658.09	801188.58	MATCH EXISTING DRIVEWAY



BENCH MARKS/CONTROL POINTS ▲

NO.	STATION/OFFSET	NORTHING	EASTING	ELEV.
CP 25 (MAG)	105+44.58 SL/15.91'RT	456,553.16	801,224.54	1027.25

LEGEND

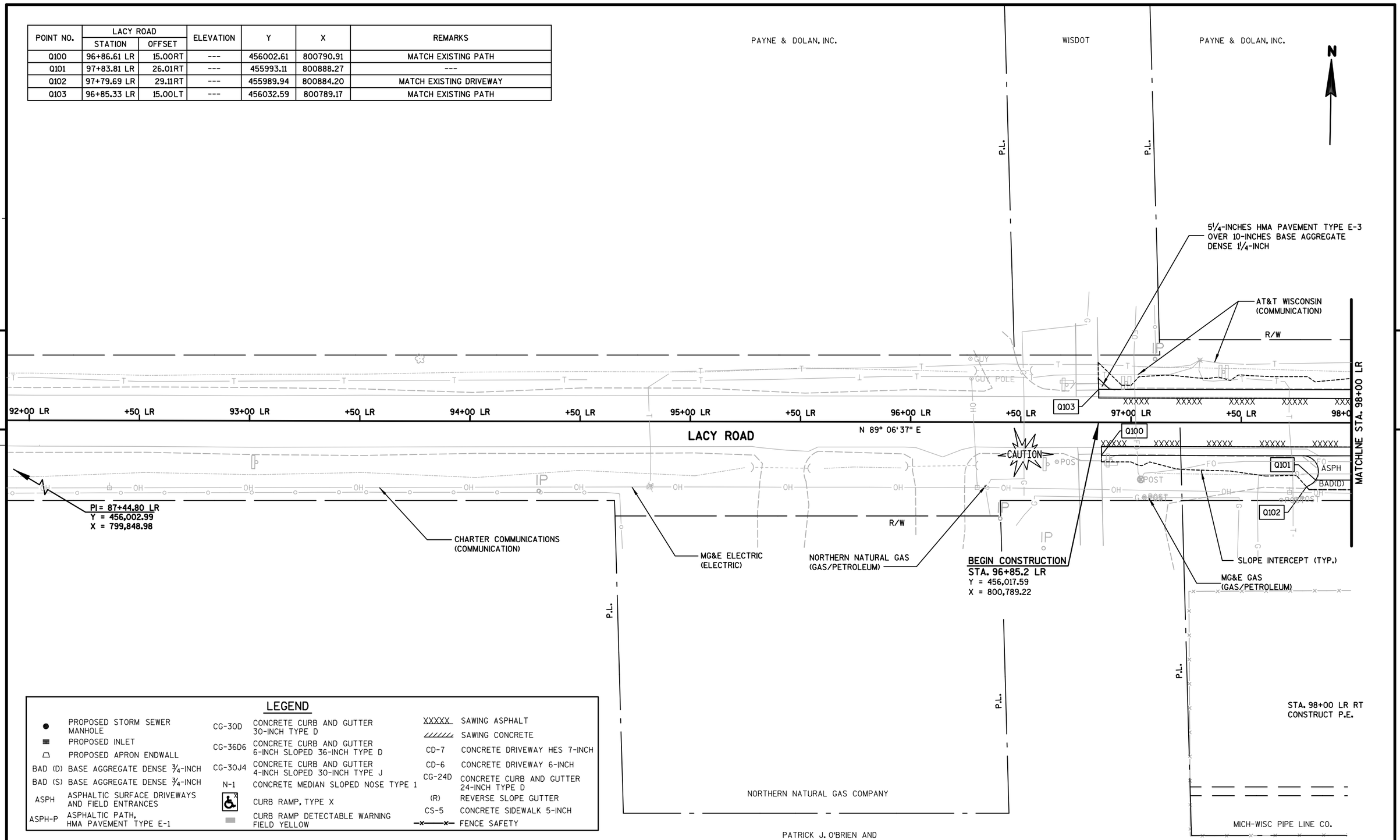
●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
■	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	♿	CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	▒	CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x——x—	FENCE SAFETY

PAYNE & DOLAN, INC.

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT: SEMINOLE HIGHWAY AT LACY ROAD	SHEET 740	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050216_pn_sl.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

POINT NO.	LACY ROAD		ELEVATION	Y	X	REMARKS
	STATION	OFFSET				
Q100	96+86.61 LR	15.00RT	---	456002.61	800790.91	MATCH EXISTING PATH
Q101	97+83.81 LR	26.01RT	---	455993.11	800888.27	---
Q102	97+79.69 LR	29.11RT	---	455989.94	800884.20	MATCH EXISTING DRIVEWAY
Q103	96+85.33 LR	15.00LT	---	456032.59	800789.17	MATCH EXISTING PATH



LEGEND

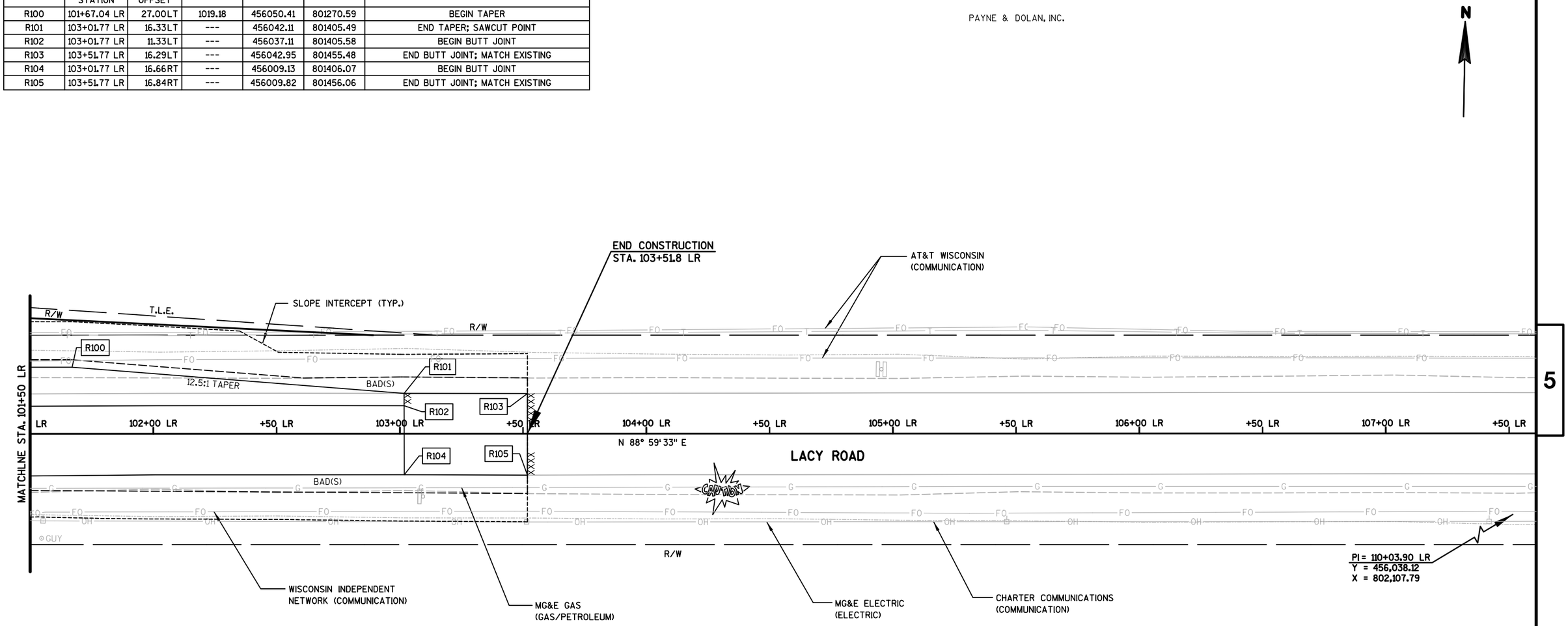
●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH		CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x—x—	FENCE SAFETY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - LACY ROAD AT SEMINOLE HIGHWAY	SHEET 741	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050217_pn_lr.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 44

POINT NO.	LACY ROAD		ELEVATION	Y	X	REMARKS
	STATION	OFFSET				
R100	101+67.04 LR	27.00LT	1019.18	456050.41	801270.59	BEGIN TAPER
R101	103+01.77 LR	16.33LT	---	456042.11	801405.49	END TAPER; SAWCUT POINT
R102	103+01.77 LR	11.33LT	---	456037.11	801405.58	BEGIN BUTT JOINT
R103	103+51.77 LR	16.29LT	---	456042.95	801455.48	END BUTT JOINT; MATCH EXISTING
R104	103+01.77 LR	16.66RT	---	456009.13	801406.07	BEGIN BUTT JOINT
R105	103+51.77 LR	16.84RT	---	456009.82	801456.06	END BUTT JOINT; MATCH EXISTING

PAYNE & DOLAN, INC.



LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	♿	CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	▒	CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x—x—	FENCE SAFETY

PATRICK J. O'BRIEN AND
THOMAS G. O'BRIEN

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - LACY ROAD AT SEMINOLE HIGHWAY	SHEET 742	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050218_pn_lr.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 44

SALIVING LLC.

HERMINIO VILLEGAS CAMACHO
AND NATALIA VILLEGAS

RUBEN E. ZUNIGA AND
MA DE LOURDES RODRIGUEZ

BELMAR DEVELOPMENT CORP.

MATCHLNE STA. 98+50 SP

SENTINEL PASS

S 73° 20' 58" E
dS 00+66

P.L.

R/W

CITY OF FITCHBURG
(SANITARY SEWER)

CITY OF FITCHBURG
(WATER)

CITY OF MADISON
(SANITARY SEWER)

AT&T WISCONSIN
(COMMUNICATION)

ADJUSTING MANHOLE COVERS
EX. SAS 3869-006

MG&E ELECTRIC
(ELECTRIC)

TDS TELECOM
(COMMUNICATION)

MG&E GAS
(GAS/PETROLEUM)

WISCONSIN INDEPENDENT NETWORK
(COMMUNICATION)

SLOPE INTERCEPT (TYP.)

BM 3

T.L.E.

S100 S101 S102 S103 S104 S105 S106 S107 S108 S109 S110 S111 S112 S113 S114 S115 S116 S117 S118 S119 S120 S121 S122 S123 S124 S125 S126

SS +50 SS 96+00 SS +50 SS 97+00 SS +50 SS 98+00 SS +50 SS 99+00 SS +50 SS 100+00 SS +50 SS 101+00 SS

89° 56' 54"

N 16° 42' 08" E

SEMINOLE HIGHWAY

ADJUSTING MANHOLE COVERS
EX. SAS 3869-005

PC 100+91.06

MATCHLNE STA. 101+00 SS

R/W

POST

PI= 92+32.39 SS
Y = 464,787.84
X = 804,001.47

BEGIN CONSTRUCTION
STA. 95+87.45 SS
Y = 465,127.92
X = 804,103.52

PI STA. = 100+00.00 SP =
100+00.00 SS
Y = 465,523.06
X = 804,222.08

CURVE SS-1

UNIVERSITY OF WISCONSIN-MADISON ARBORETUM

CURVE SS-1
P.I. = 102+52.87 SS
Y = 465,765.26
X = 804,294.76
DELTA = 5° 57' 37" (RT)
D = 1° 50' 37"
T = 161.80'
L = 323.31'
R = 3,108.00'
P.C. = 100+91.06 SS
P.T. = 104+14.38 SS

BENCH MARKS/CONTROL POINTS ▲

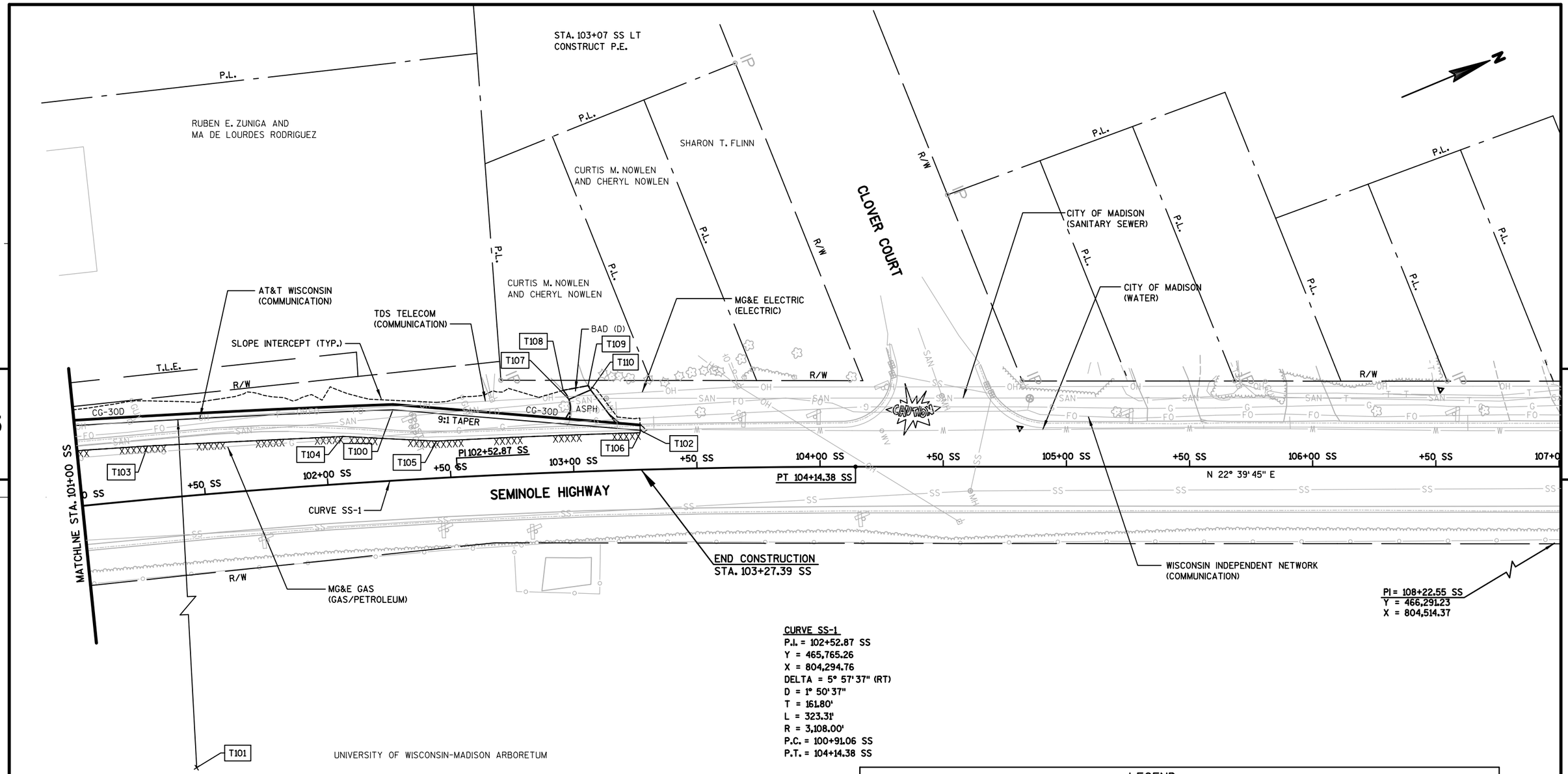
NO.	STATION/OFFSET	DESCRIPTION	ELEV.
BM 3	96+29.69 SS/54.45'LT	TOP NUT HYDRANT ON THE WEST SIDE OF SEMINOLE, 350'± SOUTH OF SENTINEL	954.38

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
■	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
BAD (S)	BASE AGGREGATE DENSE ¾-INCH		CURB RAMP, TYPE X
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1	XXXXX	SAWING ASPHALT
		//////	SAWING CONCRETE
		CD-7	CONCRETE DRIVEWAY HES 7-INCH
		CD-6	CONCRETE DRIVEWAY 6-INCH
		CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
		(R)	REVERSE SLOPE GUTTER
		CS-5	CONCRETE SIDEWALK 5-INCH
		—x——x—	FENCE SAFETY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - SEMINOLE HIGHWAY AT SENTINEL PASS	SHEET 743	E

POINT NO.	SEMINOLE HIGHWAY		SENTINEL PASS		ELEVATION	Y	X	REMARKS
	STATION	OFFSET	STATION	OFFSET				
S100	95+87.45 SS	15.00LT	---	---	---	465132.23	804089.15	SAWCUT POINT
S101	95+87.45 SS	16.00LT	---	---	---	465132.52	804088.19	BEGIN CURB AND GUTTER; BEGIN RADIUS
S102	96+51.25 SS	18.55LT	---	---	948.88	465194.36	804104.09	END RADIUS
S103	95+87.45 SS	816.00LT	---	---	---	465362.44	803321.94	R=800'
S104	97+12.56 SS	23.45LT	---	---	949.08	465254.49	804117.01	BEGIN RADIUS
S105	97+76.35 SS	26.00LT	---	---	949.32	465316.32	804132.90	END RADIUS
S106	97+76.35 SS	774.00RT	---	---	---	465086.41	804899.15	R=800'
S107	99+49.95 SS	26.00LT	99+73.95 SP	50.03RT	950.14	465482.60	804182.80	BEGIN RADIUS
S108	99+79.95 SS	56.03LT	99+43.95 SP	20.00RT	949.89	465519.96	804162.66	END RADIUS
S109	99+49.95 SS	56.00LT	99+43.95 SP	50.00RT	---	465491.22	804154.06	R=30'
S110	98+40.34 SS	15.00LT	99+84.86 SP	159.64RT	---	465374.45	804161.83	SAWCUT POINT
S111	99+26.11 SS	22.00LT	99+77.93 SP	73.87RT	---	465458.61	804179.77	SAWCUT POINT
S112	99+61.98 SS	22.00LT	99+77.97 SP	38.00RT	---	465492.97	804190.08	SAWCUT POINT
S113	100+28.58 SS	20.14LT	99+79.89 SP	28.60LT	---	465556.23	804211.01	SAWCUT POINT
S114	---	---	99+00.58 SP	17.00RT	---	465535.26	804121.96	SAWCUT POINT
S115	---	---	99+00.04 SP	8.03LT	---	465559.40	804128.61	SAWCUT POINT
S116	---	---	99+35.94 SP	8.10LT	---	465549.18	804163.03	SAWCUT POINT
S117	100+28.71 SS	25.20LT	99+74.83 SP	28.74LT	---	465557.81	804206.20	SAWCUT POINT
S118	100+18.58 SS	64.20LT	99+35.82 SP	18.64LT	---	465559.31	804165.93	BEGIN RADIUS; BEGIN CURB AND GUTTER
S119	100+47.65 SS	34.59LT	99+65.46 SP	47.68LT	950.42	465578.64	804202.65	END RADIUS; BEGIN RADIUS
S120	100+48.58 SS	64.57LT	99+35.47 SP	48.64LT	---	465588.15	804174.20	R=30'
S121	99+59.95 SS	27.72LT	99+72.25 SP	40.02RT	950.22	465492.67	804184.03	---
S122	99+70.68 SS	34.32LT	99+65.66 SP	29.29RT	949.95	465504.84	804180.79	---
S123	99+77.95 SS	45.24LT	99+54.74 SP	22.01RT	949.85	465514.95	804172.41	---
S124	99+79.76 SS	52.61LT	99+47.37 SP	20.20RT	949.78	465518.79	804165.88	LOW POINT
S125	99+79.95 SS	57.98LT	99+42.00 SP	20.00RT	949.96	465520.52	804160.78	---
S126	100+20.33 SS	54.49LT	99+45.53 SP	20.37LT	950.02	465558.19	804175.74	LOW POINT



CURVE SS-1
P.I. = 102+52.87 SS
Y = 465,765.26
X = 804,294.76
DELTA = 5° 57' 37" (RT)
D = 1° 50' 37"
T = 161.80'
L = 323.31'
R = 3,108.00'
P.C. = 100+91.06 SS
P.T. = 104+14.38 SS

POINT NO.	SEMINOLE HIGHWAY STATION	SEMINOLE HIGHWAY OFFSET	ELEVATION	Y	X	REMARKS
T100	102+28.13 SS	28.71LT	952.25	465750.12	804263.42	END RADIUS; BEGIN TAPER
T101	98+91.92 SS	4990.00RT	---	463985.43	808970.50	R=5,027'
T102	103+27.39 SS	16.00LT	---	465839.59	804309.78	END TAPER; END CURB AND GUTTER
T103	101+28.48 SS	21.63LT	---	465652.53	804238.58	SAWCUT POINT
T104	102+07.36 SS	19.22LT	---	465727.24	804265.57	SAWCUT POINT
T105	102+44.98 SS	15.00LT	---	465761.57	804281.98	SAWCUT POINT
T106	103+27.39 SS	15.00LT	---	465839.23	804310.71	SAWCUT POINT
T107	102+99.04 SS	29.47LT	---	465817.68	804287.05	---
T108	102+96.87 SS	33.21LT	---	465816.94	804282.77	MATCH EXISTING DRIVEWAY
T109	103+06.94 SS	34.75LT	---	465827.01	804284.91	MATCH EXISTING DRIVEWAY
T110	103+07.93 SS	33.02LT	---	465827.33	804286.89	---

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
■	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	♿X	CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x—x—	FENCE SAFETY

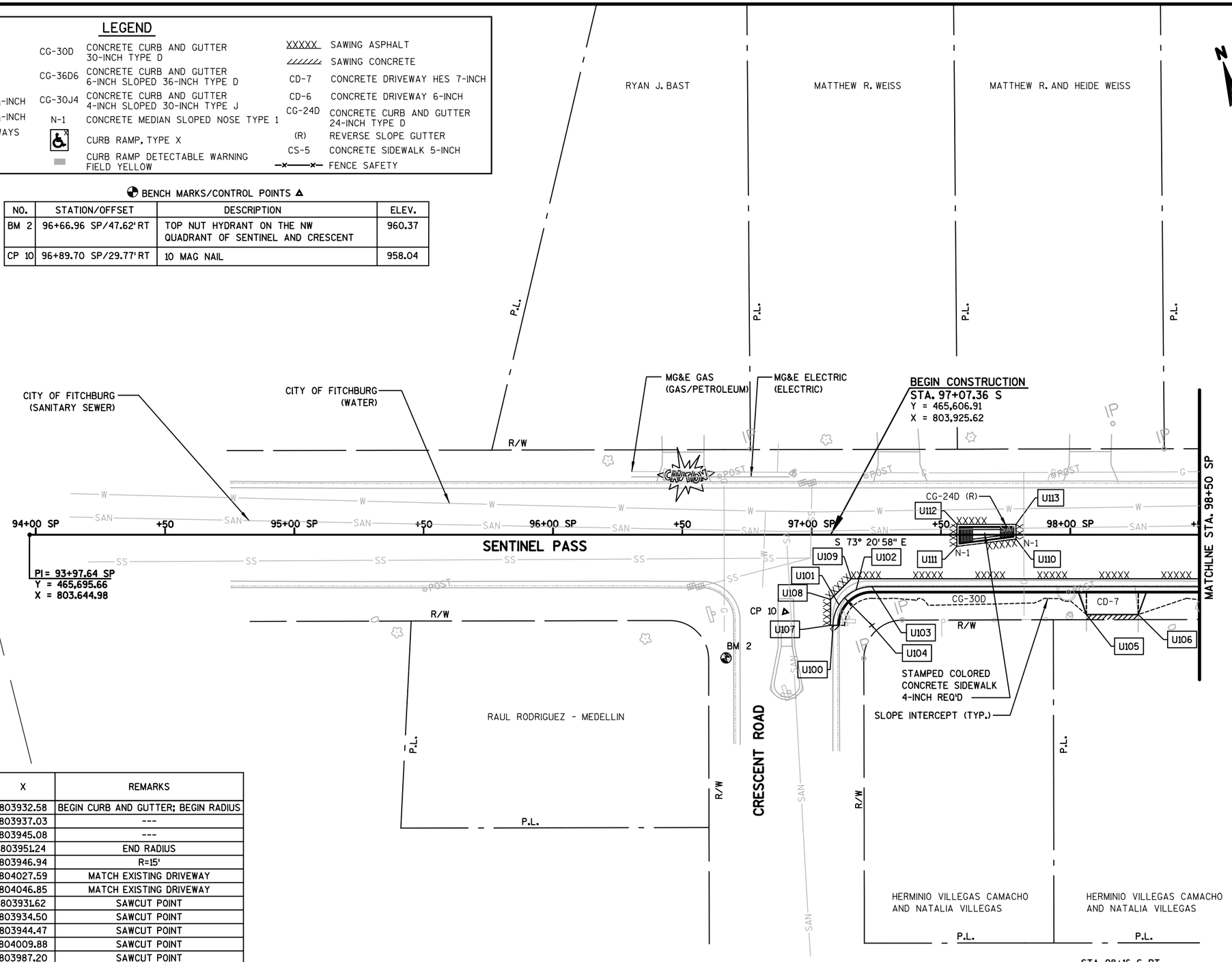
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - SEMINOLE HIGHWAY AT SENTINEL PASS	SHEET 745	E

LEGEND

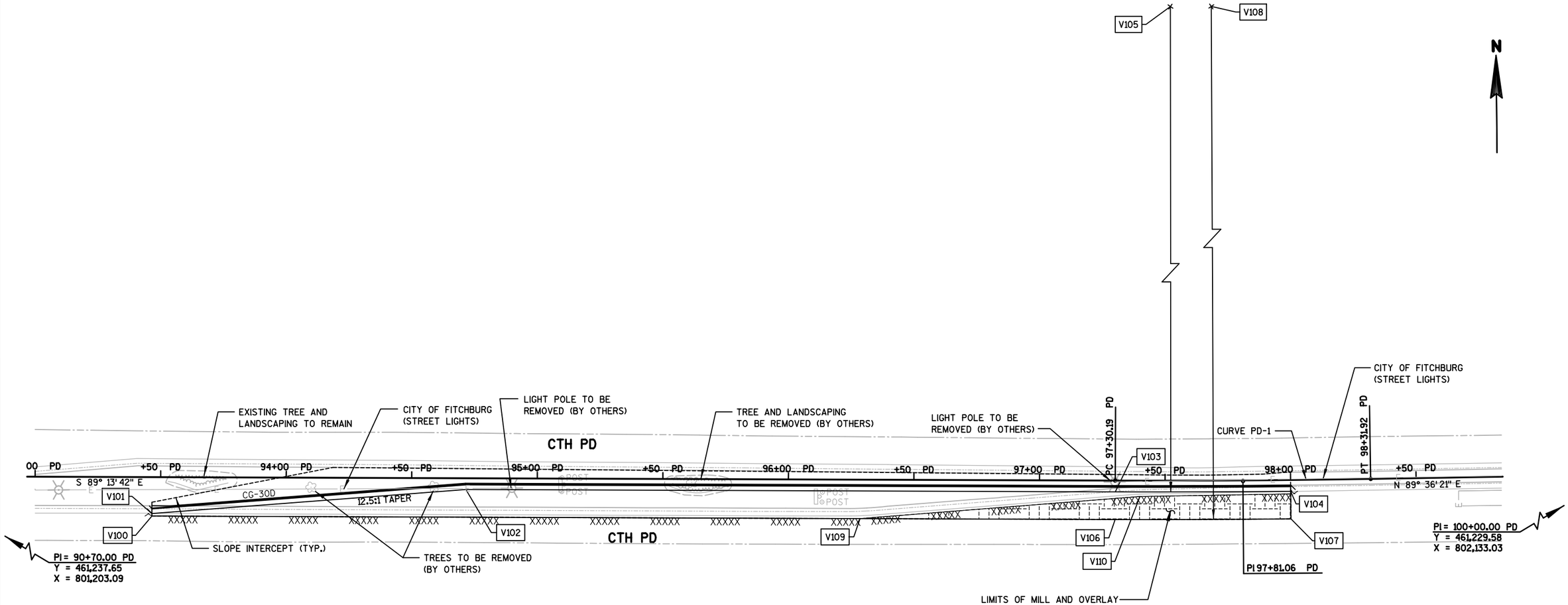
●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH		CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				–x–x–	FENCE SAFETY

BENCH MARKS/CONTROL POINTS ▲

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
BM 2	96+66.96 SP/47.62'RT	TOP NUT HYDRANT ON THE NW QUADRANT OF SENTINEL AND CRESCENT	960.37
CP 10	96+89.70 SP/29.77'RT	10 MAG NAIL	958.04



POINT NO.	SENTINEL PASS STATION	SENTINEL PASS OFFSET	ELEVATION	Y	X	REMARKS
U100	97+08.29 SP	34.97RT	---	465573.15	803932.58	BEGIN CURB AND GUTTER; BEGIN RADIUS
U101	97+10.56 SP	27.06RT	956.91	465580.07	803937.03	---
U102	97+17.24 SP	21.27RT	956.69	465583.70	803945.08	---
U103	97+23.29 SP	20.00RT	956.45	465583.19	803951.24	END RADIUS
U104	97+23.29 SP	35.00RT	---	465568.82	803946.94	R=15'
U105	98+06.22 SP	30.85RT	---	465549.03	804027.59	MATCH EXISTING DRIVEWAY
U106	98+26.32 SP	30.85RT	---	465543.28	804046.85	MATCH EXISTING DRIVEWAY
U107	97+07.29 SP	34.97RT	---	465573.43	803931.62	SAWCUT POINT
U108	97+07.31 SP	25.00RT	---	465582.98	803934.50	SAWCUT POINT
U109	97+15.32 SP	17.00RT	---	465588.35	803944.47	SAWCUT POINT
U110	97+79.00 SP	1.65RT	---	465584.81	804009.88	SAWCUT POINT
U111	97+56.19 SP	4.50RT	---	465588.61	803987.20	SAWCUT POINT
U112	97+56.19 SP	4.00LT	---	465596.76	803989.64	SAWCUT POINT



POINT NO.	CTH PD		ELEVATION	Y	X	REMARKS
	STATION	OFFSET				
V100	93+46.57 PD	15.50RT	---	461218.43	801479.43	SAWCUT POINT
V101	93+46.57 PD	14.50RT	---	461219.43	801479.44	BEGIN CURB AND GUTTER; BEGIN TAPER
V102	94+71.57 PD	4.50RT	1025.11	461227.74	801604.56	END TAPER
V103	97+30.19 PD	4.50RT	1023.20	461224.26	801863.16	BEGIN RADIUS
V104	98+00.00 PD	4.50RT	---	461223.81	801933.03	END CURB AND GUTTER; END RADIUS
V105	97+30.19 PD	5000.00LT	---	466228.31	801930.57	R=5,004.5'
V106	97+30.19 PD	15.50RT	---	461213.26	801863.01	LIMITS OF MILL AND OVERLAY
V107	98+00.00 PD	15.50RT	---	461212.81	801933.04	LIMITS OF MILL AND OVERLAY
V108	97+30.19 PD	5000.00LT	---	466228.31	801930.57	R=5,015.5'
V109	96+28.59 PD	15.50RT	---	461214.63	801761.42	SAWCUT POINT
V110	97+40.01 PD	6.31RT	---	461222.33	801872.97	SAWCUT POINT

CURVE PD-1
P.I. = 97+81.06 PD
Y = 461,228.07
X = 801,914.09
DELTA = 1° 09' 57" (LT)
D = 1° 08' 45"
T = 50.87'
L = 101.74'
R = 5,000.00'
P.C. = 97+30.19 PD
P.T. = 98+31.92 PD

NOTE:
CENTER OF CTH PD - SEMINOLE HIGHWAY INTERSECTION IS LOCATED AT STA. 100+00 PD

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D	XXXXX	SAWING ASPHALT
▬	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	//////	SAWING CONCRETE
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J	CD-7	CONCRETE DRIVEWAY HES 7-INCH
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1	CD-6	CONCRETE DRIVEWAY 6-INCH
BAD (S)	BASE AGGREGATE DENSE ¾-INCH		CURB RAMP, TYPE X	CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES		CURB RAMP DETECTABLE WARNING FIELD YELLOW	(R)	REVERSE SLOPE GUTTER
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1			CS-5	CONCRETE SIDEWALK 5-INCH
				—x—x—	FENCE SAFETY

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - CTH PD AT SEMINOLE HIGHWAY	SHEET 747	E

POINT NO.	WHITNEY WAY STATION	WHITNEY WAY OFFSET	ELEVATION	Y	X	REMARKS
W100	100+00.00 W	23.00RT	---	471904.78	797265.23	BEGIN CURB AND GUTTER; BEGIN RADIUS; SAWCUT POINT
W101	101+66.00 W	23.00RT	983.08	472074.82	797296.56	END RADIUS
W102	101+84.19 W	523.71LT	---	472087.68	796749.71	R=547'
W103	101+72.63 W	23.00LT	983.11	472081.83	797296.52	BEGIN TAPER
W104	102+62.10 W	11.00RT	---	472171.13	797283.95	END TAPER; SAWCUT POINT
W105	101+74.99 W	22.68RT	985.13	472084.29	797296.17	---
W106	100+00.00 W	11.00RT	---	471908.79	797253.92	SAWCUT POINT; BEGIN RADIUS
W107	101+66.00 W	11.00RT	---	472074.93	797284.56	SAWCUT POINT; END RADIUS
W108	101+84.19 W	523.71LT	---	472087.68	796749.71	R=535'
W109	101+72.63 W	11.00LT	---	472081.76	797284.52	SAWCUT POINT; BEGIN RADIUS
W110	101+72.63 W	7921.00RT	---	472177.01	805193.94	R=7,910'
W111	94+84.50 W	41.82RT	---	471647.88	797105.74	BEGIN CURB AND GUTTER; BEGIN TAPER; BEGIN RADIUS; SAWCUT POINT
W112	98+60.00 W	39.40RT	---	471765.80	797212.11	END RADIUS
W113	97+05.27 W	539.14LT	---	472092.36	796731.57	R=581'
W114	97+81.51 W	29.53RT	982.76	471707.18	79715l.73	END TAPER; BEGIN RADIUS
W115	985+11.22 W	28.51RT	982.24	471764.47	797197.82	END RADIUS; BEGIN RADIUS
W116	97+05.27 W	539.14LT	---	472092.36	79673l.57	R=570'
W117	98+56.90 W	22.07RT	---	471773.05	797196.03	END RADIUS; END CURB AND GUTTER; SAWCUT POINT
W118	98+51.16 W	22.51RT	---	471767.92	797192.91	R=6'
W119	98+44.96 W	28.59RT	982.21	471759.09	797193.99	LOW POINT
W120	98+60.00 W	21.86RT	---	471775.82	797197.71	SAWCUT POINT

CP WWY1

BENCH MARKS/CONTROL POINTS ▲

NO.	STATION/OFFSET	DESCRIPTION	ELEV.
CP WWY1	99+18.65 W/94.59'LT	1 MAG NAIL	983.89

LEGEND

●	PROPOSED STORM SEWER MANHOLE	CG-30D	CONCRETE CURB AND GUTTER 30-INCH TYPE D
■	PROPOSED INLET	CG-36D6	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
⏢	PROPOSED APRON ENDWALL	CG-30J4	CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J
BAD (D)	BASE AGGREGATE DENSE ¾-INCH	N-1	CONCRETE MEDIAN SLOPED NOSE TYPE 1
BAD (S)	BASE AGGREGATE DENSE ¾-INCH	♿	CURB RAMP, TYPE X
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	▬	CURB RAMP DETECTABLE WARNING FIELD YELLOW
ASPH-P	ASPHALTIC PATH, HMA PAVEMENT TYPE E-1	XXXXX	SAWING ASPHALT
		//////	SAWING CONCRETE
		CD-7	CONCRETE DRIVEWAY HES 7-INCH
		CD-6	CONCRETE DRIVEWAY 6-INCH
		CG-24D	CONCRETE CURB AND GUTTER 24-INCH TYPE D
		(R)	REVERSE SLOPE GUTTER
		CS-5	CONCRETE SIDEWALK 5-INCH
		—x—x—	FENCE SAFETY

CURVE W-1
P.I. = 99+56.05 W
Y = 471,835.36
X = 797,267.77
DELTA = 49° 10' 12" (LT)
D = 10° 56' 04"
T = 239.74'
L = 449.69'
R = 524.00'
P.C. = 97+16.31 W
P.T. = 101+66.00 W

CURVE W-2
P.I. = 102+43.93 W
Y = 472,152.96
X = 797,272.66
DELTA = 1° 01' 53" (RT)
D = 0° 43' 24"
T = 71.30'
L = 142.60'
R = 7,921.00'
P.C. = 101+72.63 W
P.T. = 103+15.23 W

CURVE W-3
P.I. = 103+67.63 W
Y = 472,276.66
X = 797,273.40
DELTA = 3° 52' 22" (LT)
D = 3° 41' 47"
T = 52.40'
L = 104.77'
R = 1,550.00'
P.C. = 103+15.23 W
P.T. = 104+20.00 W

BEGIN CONSTRUCTION
STA. 97+11.76 W
Y= 471,680.15
X= 797,079.12

POT = 94+84.50 W
Y = 471,535.75
X = 796,903.62

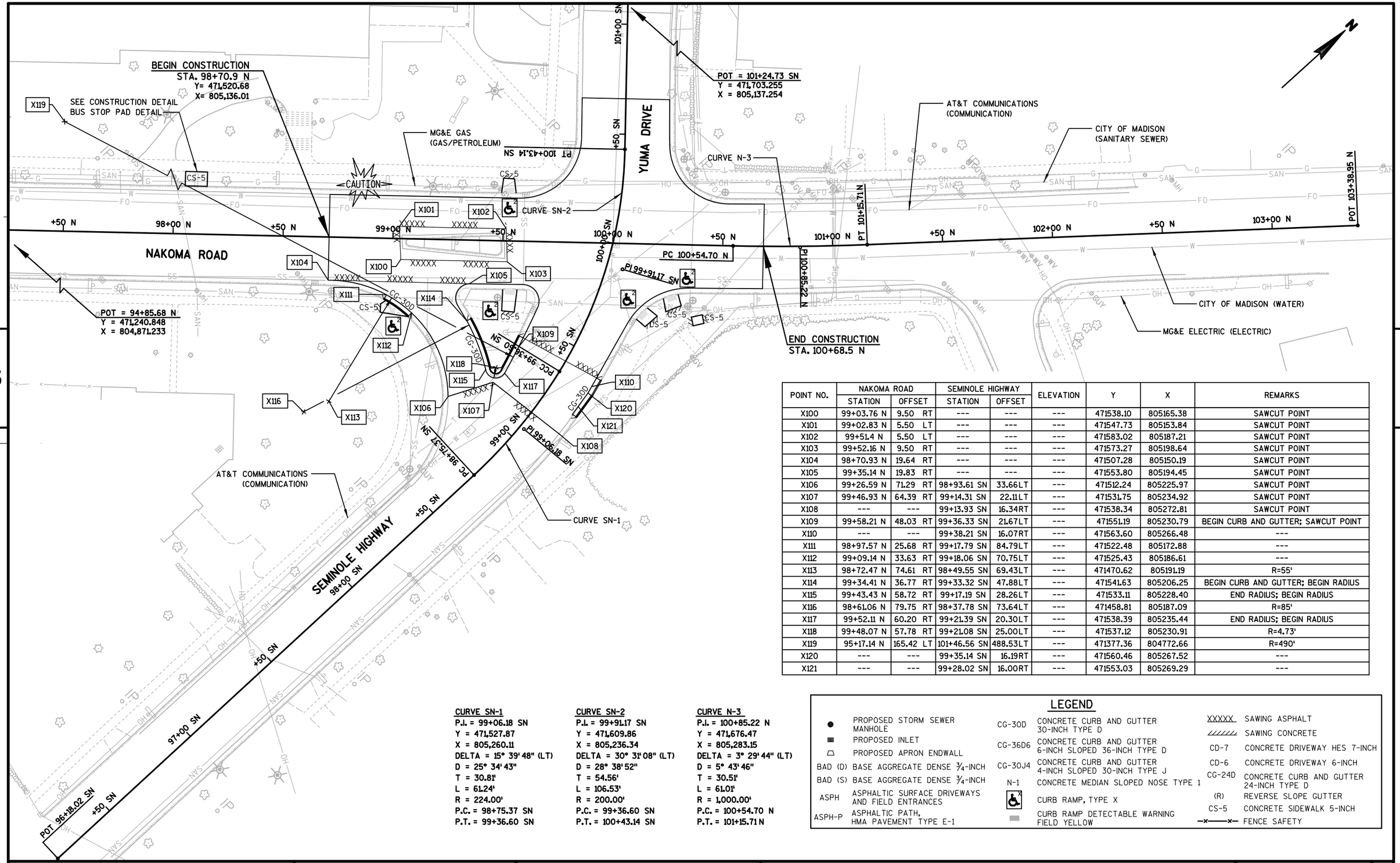
END CONSTRUCTION
STA. 102+62.1 W

N 38°17'02" W
97+00 W
98+00 W
99+00 W
100+00 W
101+00 W
102+00 W
103+00 W
+50 W
PC 97+16.31 W
PT 101+66.00 W
PC 101+72.63 W
PT 102+43.93 W
PRC 103+15.23 W
PT 99+56.05 W
N 0° 20' 52" W
6.8:1 TAPER
7.4:1 TAPER
CG-30D
CURVE W-1
CURVE W-2
CURVE W-3
CAUTION
SLOPE INTERCEPT (TYP.)
CITY OF MADISON (WATER)
CITY OF MADISON (WATER)
GILBERT ROAD
WHITNEY WAY
SIGN
W100 W101 W102 W103 W104 W105 W106 W107 W108 W109 W110 W111 W112 W113 W114 W115 W116 W117 W118 W119 W120

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	PLAN-DETAILS/ALIGNMENT - WHITNEY WAY AT GILBERT ROAD	SHEET 748	E

FILE NAME : s:\mad\1000--1099\1089\251\micros\plan\0777\050223_pn_w.dgn PLOT DATE : 2/15/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 44



POINT NO.	NAKOMA ROAD		SEMINOLE HIGHWAY		ELEVATION	Y	X	REMARKS
	STATION	OFFSET	STATION	OFFSET				
X100	99+03.76 N	9.50 RT	---	---	---	471538.10	805165.38	SAWCUT POINT
X101	99+02.83 N	5.50 LT	---	---	---	471547.73	805153.84	SAWCUT POINT
X102	99+51.4 N	5.50 LT	---	---	---	471583.02	805187.21	SAWCUT POINT
X103	99+52.16 N	9.50 RT	---	---	---	471573.27	805198.64	SAWCUT POINT
X104	98+70.93 N	19.64 RT	---	---	---	471507.28	805150.19	SAWCUT POINT
X105	99+35.14 N	19.83 RT	---	---	---	471553.80	805194.45	SAWCUT POINT
X106	99+26.59 N	71.29 RT	98+93.61 SN	33.66LT	---	471512.24	805225.97	SAWCUT POINT
X107	99+46.93 N	64.39 RT	99+14.31 SN	22.11LT	---	471531.75	805234.92	SAWCUT POINT
X108	---	---	99+13.93 SN	16.34RT	---	471538.34	805272.81	SAWCUT POINT
X109	99+58.21 N	48.03 RT	99+36.33 SN	21.67LT	---	471551.19	805230.79	BEGIN CURB AND GUTTER; SAWCUT POINT
X110	---	---	99+38.21 SN	16.07RT	---	471563.60	805266.48	---
X111	98+97.57 N	25.68 RT	99+17.79 SN	84.79LT	---	471522.48	805172.88	---
X112	99+09.14 N	33.63 RT	99+18.06 SN	70.75LT	---	471525.43	805186.61	---
X113	98+72.47 N	74.61 RT	98+49.55 SN	69.43LT	---	471470.62	805191.19	R=55'
X114	99+34.41 N	36.77 RT	99+33.32 SN	47.88LT	---	471541.63	805206.25	BEGIN CURB AND GUTTER; BEGIN RADIUS
X115	99+43.43 N	58.72 RT	99+17.19 SN	28.26LT	---	471533.11	805228.40	END RADIUS; BEGIN RADIUS
X116	98+61.06 N	79.75 RT	98+37.78 SN	73.64LT	---	471458.81	805187.09	R=85'
X117	99+52.11 N	60.20 RT	99+21.39 SN	20.30LT	---	471538.39	805235.44	END RADIUS; BEGIN RADIUS
X118	99+48.07 N	57.78 RT	99+21.08 SN	25.00LT	---	471537.12	805230.91	R=4.73'
X119	95+17.14 N	165.42 LT	101+46.56 SN	488.53LT	---	471377.36	804772.66	R=490'
X120	---	---	99+35.14 SN	16.19RT	---	471560.46	805267.52	---
X121	---	---	99+28.02 SN	16.00RT	---	471553.03	805269.29	---

CURVE SN-1
P.I. = 99+06.18 SN
Y = 471,527.87
X = 805,260.11
DELTA = 15° 39' 48" (LT)
D = 25° 34' 43"
T = 30.81'
L = 61.24'
R = 224.00'
P.C. = 98+75.37 SN
P.T. = 99+36.60 SN

CURVE SN-2
P.I. = 99+91.17 SN
Y = 471,609.86
X = 805,236.34
DELTA = 30° 31' 08" (LT)
D = 28° 38' 52"
T = 54.56'
L = 106.53'
R = 200.00'
P.C. = 99+36.60 SN
P.T. = 100+43.14 SN

CURVE N-3
P.I. = 100+85.22 N
Y = 471,676.47
X = 805,283.15
DELTA = 3° 29' 44" (LT)
D = 5° 43' 46"
T = 30.51'
L = 61.01'
R = 1,000.00'
P.C. = 100+54.70 N
P.T. = 101+15.71 N

LEGEND

- PROPOSED STORM SEWER MANHOLE
- PROPOSED INLET
- PROPOSED APRON ENDWALL
- BAD (D) BASE AGGREGATE DENSE ¾-INCH
- BAD (S) BASE AGGREGATE DENSE ¾-INCH
- ASPH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
- ASPH-P ASPHALTIC PATH, HMA PAVEMENT TYPE E-1
- CG-30D CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG-36D6 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CG-30J4 CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE J
- N-1 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CURB RAMP, TYPE X
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- XXXXX SAWING ASPHALT
- SAWING CONCRETE
- CD-7 CONCRETE DRIVEWAY HES 7-INCH
- CD-6 CONCRETE DRIVEWAY 6-INCH
- CG-24D CONCRETE CURB AND GUTTER 24-INCH TYPE D
- (R) REVERSE SLOPE GUTTER
- CS-5 CONCRETE SIDEWALK 5-INCH
- –x——x– FENCE SAFETY

Standard Detail Drawing List

08A05-18A	INLET COVERS TYPE A, H, A-S, & H-S
08A05-18B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-18C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-18D	INLET COVER, TYPE BW, Z MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-14A	CURB RAMPS TYPES 1 AND 1-A
08D05-14B	CURB RAMPS TYPES 2 AND 3
08D05-14C	CURB RAMPS TYPE 4A
08D05-14D	CURB RAMPS TYPE 4B
08D05-14E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F08-02	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09B02-07	CONDUIT
09B04-09	PULL BOX
09C02-06	CONCRETE BASES, TYPES 1, 2 & 5
09C03-03	TRANSFORMER/PEDESTAL BASES
09C05-07	CONCRETE CONTROL CABINET BASES
09D01-04	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-02	SIGNAL OR LIGHTING CONTROL CABINET
09E01-11D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E02-03	FREEWAY LIGHTING UNIT POLE WIRING
09E06-04	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09F01-03	DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT
09F04-03	LOOP DETECTOR INSTALLED IN NEW CONCRETE PAVEMENT ROUND CSCP PULLBOX
09F05-03	LOOP DETECTOR INSTALLED IN NEW CONCRETE PAVEMENT ROUND CSCP PULLBOX (MULTIPLE LEAD-OUT)
09F08-03	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)
09F15-03B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09G01-03A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
10A01-02	ELECTRICAL HANDHOLE WIRING
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13A08-01	ASPHALTIC RUMBLE STRIPS AT INTERSECTION
13B02-06	CONCRETE PAVEMENT APPROACH SLAB
13C01-15	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-07	URBAN DOWELED CONCRETE PAVEMENT
13C14-04A	BASE PATCHING CONCRETE
13C14-04B	BASE PATCHING CONCRETE
13C14-04C	BASE PATCHING CONCRETE
13C18-01A	CONCRETE PAVEMENT JOINTING
13C18-01B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-01C	CONCRETE PAVEMENT JOINT TIES
13C18-01D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14A01-03	TREE PRESERVATION DETAILS
14B07-13A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

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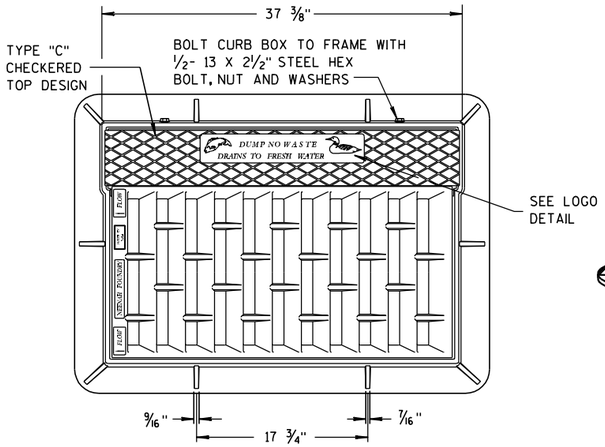
Standard Detail Drawing List

14B07-13C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-01A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B15-07A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-07C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B25-01	STEEL PLATE BEAM GUARD, CLASS "A", OVER LOW FILL CULVERTS
14B28-02	GUARDRAIL MOW STRIP
14B32-01A	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-01B	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-01C	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-01D	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B33-01G	CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR
14B33-01H	CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR
14B35-01C	32-INCH SINGLE-FACED NJ SHAPE CONCRETE BARRIER TO 36-INCH SSCB TRANSITION
14B35-01D	32-INCH SINGLE-FACED NJ SHAPE CONCRETE BARRIER TO 36-INCH SSCB TRANSITION
14B37-01C	32-INCH DOUBLE-FACED NJ SHAPE CONCRETE BARRIER TO 36-INCH SSCB TRANSITION
14B37-01D	32-INCH DOUBLE-FACED NJ SHAPE CONCRETE BARRIER TO 36-INCH SSCB TRANSITION
14B39-01C	36-INCH SSCB TO 42-INCH SSCB HEIGHT TRANSITION
14B41-01A	SINGLE SLOPE ROADSIDE RETAINING WALL
14B41-01B	SINGLE SLOPE ROADSIDE RETAINING WALL
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-01A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-01B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-01C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A02-07	DELINEATOR POST, DELINEATOR BRACKET AND DELINEATOR
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A06-02	DELINEATOR LAYOUT
15B03-12A	CHAIN LINK FENCE
15B03-12B	CHAIN LINK FENCE
15C02-04A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-01	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C08-15E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C10-10	PAVEMENT MARKINGS FOR DROP LANES FREEWAY/EXPRESSWAY
15C11-05	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES

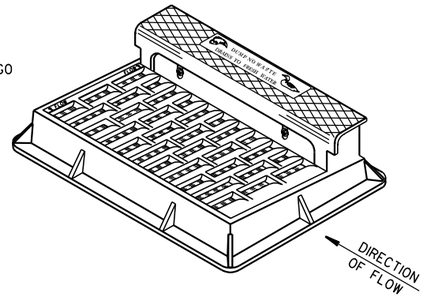
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Standard Detail Drawing List

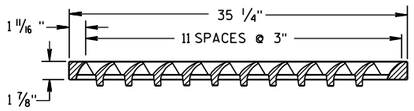
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C19-01C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C23-02	30" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15C29-02A	BICYCLE LANE MARKING
15C29-02B	BICYCLE LANE MARKING
15C29-02C	URBAN BICYCLE LANE MARKING
15C29-02D	URBAN BICYCLE LANE MARKING
15C29-02E	PAVEMENT MARKING FOR BIKE LANES
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-01B	LANE DROP PAVEMENT MARKING
15C31-01D	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15D03-01	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER
15D12-02	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D14-01	TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)
15D15-01	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D20-01	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-01	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D22-01	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D23-01	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D27-01	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-01	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-02	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE

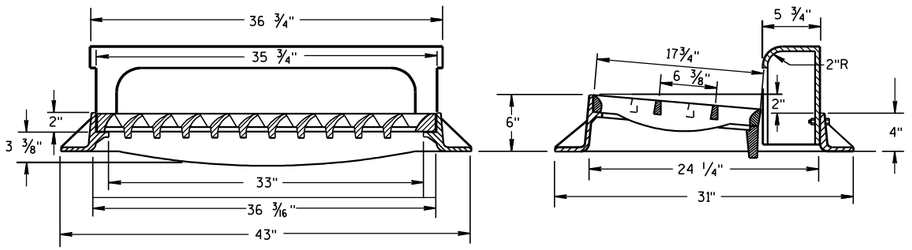


NOTE:
GRATE IS REVERSIBLE.



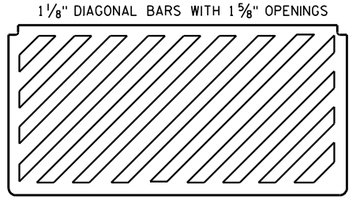
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"





TYPE "H"

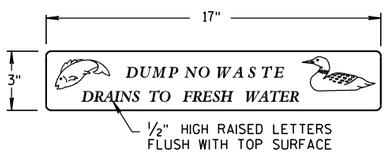
(APPROXIMATE WEIGHT 441 LBS.)
FRAME..... 181 LBS.
GRATE..... 146 LBS.
CURB BOX..... 114 LBS.



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")
(APPROXIMATE WEIGHT 159 LBS.)
GRATE..... 159 LBS.

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL

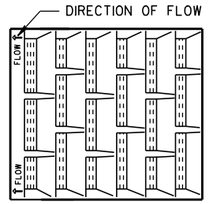
GENERAL NOTES

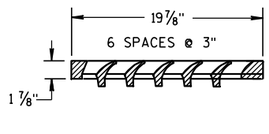
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

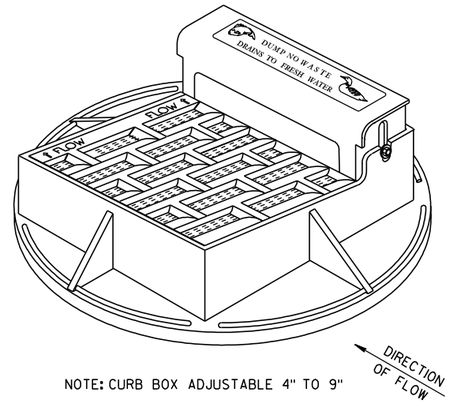
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

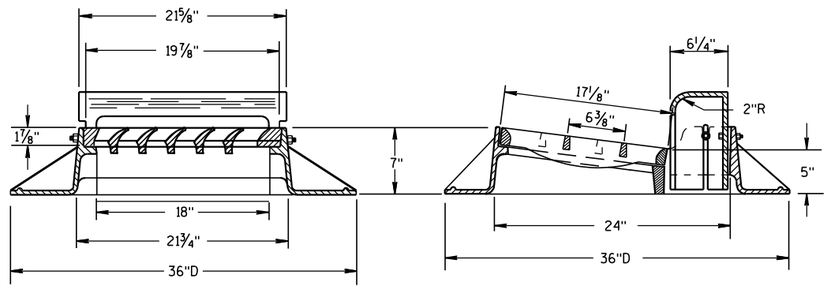
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





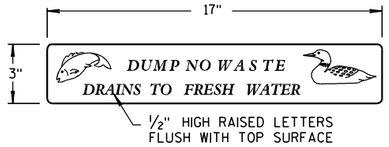


NOTE: CURB BOX ADJUSTABLE 4" TO 9"



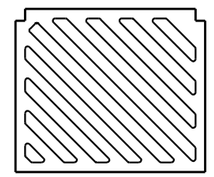
TYPE "A"

(APPROXIMATE WEIGHT 340 LBS.)
FRAME..... 185 LBS.
GRATE..... 71 LBS.
CURB BOX..... 84 LBS.



LOGO DETAIL

NOTE:
GRATE IS REVERSIBLE.



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8"
GRATE..... 84 LBS.

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

INLET COVERS TYPE A, H, A-S, & H-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

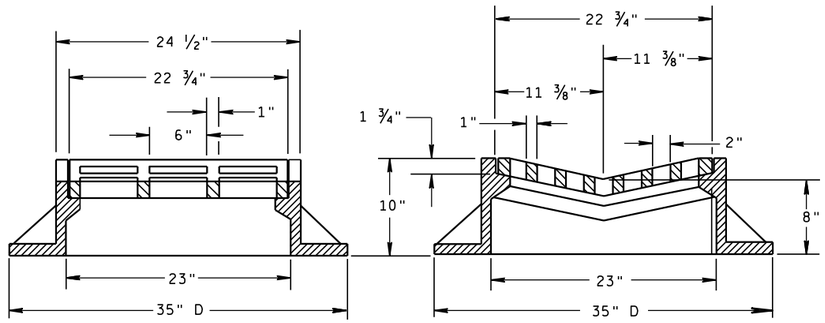
APPROVED
6/5/2012 DATE
/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER
753
FHWA

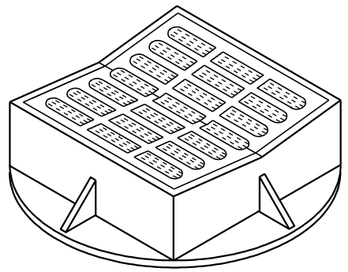
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S.D.D. 8 A 5-18a

6

S.D.D. 8 A 5-18a

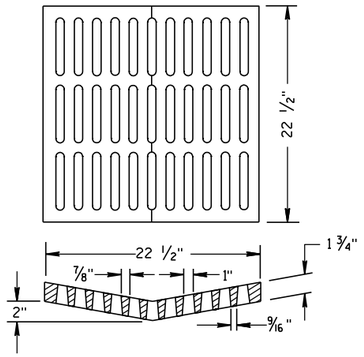




TYPE "B"

(APPROXIMATE WEIGHT 405 LBS.)

FRAME..... 294 LBS.
GRATE..... 111 LBS.

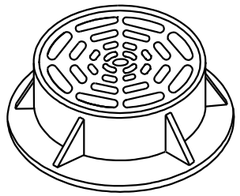


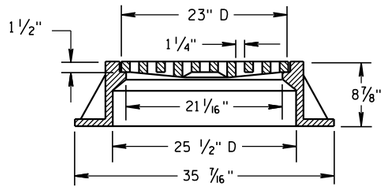
ALTERNATIVE GRATE FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 134 LBS.)

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE





TYPE "C"

(APPROXIMATE WEIGHT 259 LBS.)

FRAME..... 152 LBS.
GRATE..... 107 LBS.

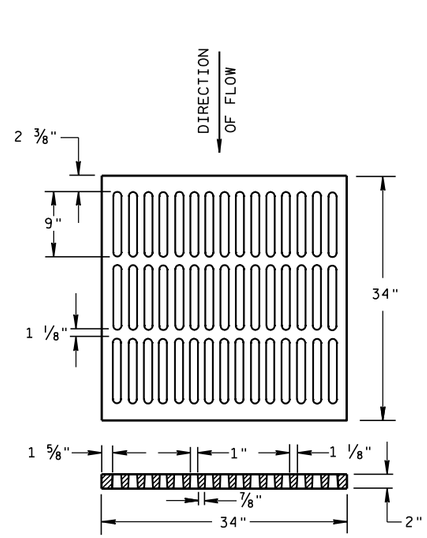
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

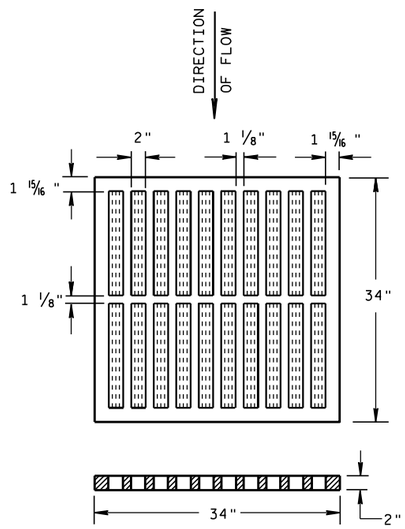


ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 329 LBS.)

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

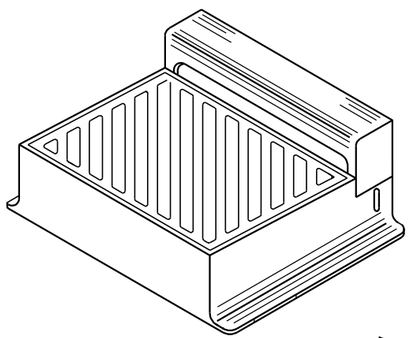


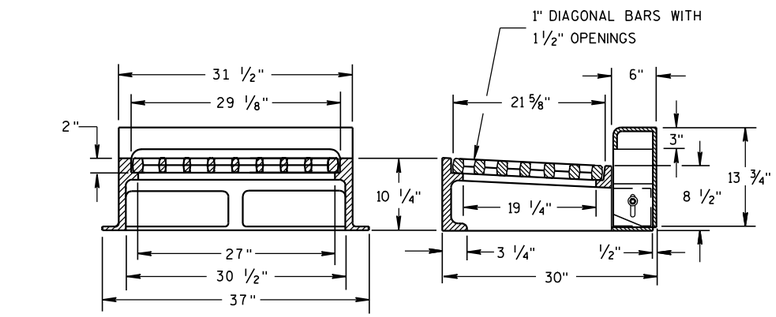
TYPE "MS"

(APPROXIMATE GRATE WEIGHT 268 LBS.)

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE





NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.

TYPE "WM"

(APPROXIMATE WEIGHT 648 LBS.)

FRAME..... 355 LBS.
GRATE..... 156 LBS.
CURB BOX..... 137 LBS.

INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012 DATE

/S/ Jerry H. Zaas
ROADWAY STANDARDS ENGINEER

754 ENT

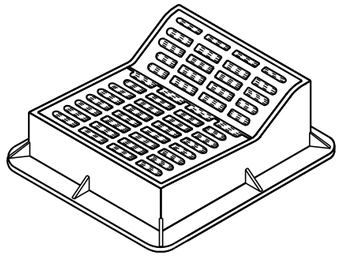
FHWA

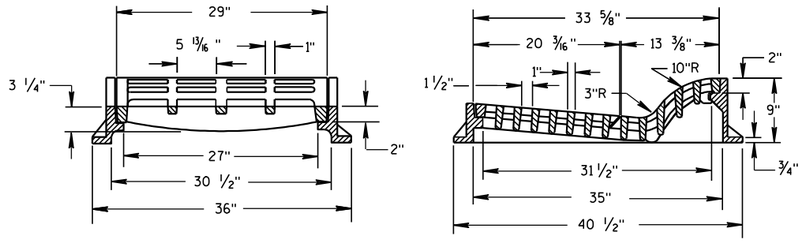
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S.D.D. 8 A 5-18b

6

S.D.D. 8 A 5-18b



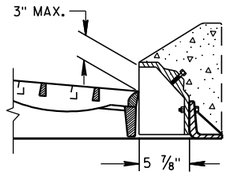


TYPE "F"

(APPROXIMATE WEIGHT 644 LBS.)

FRAME.....302 LBS.
GRATE.....160 LBS.
GRATE.....182 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

(APPROXIMATE WEIGHT CURB BOX 68 LBS.)

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

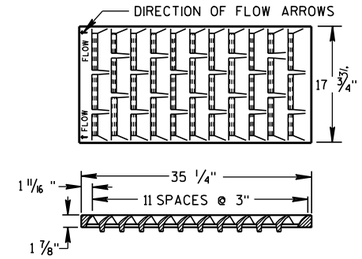
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

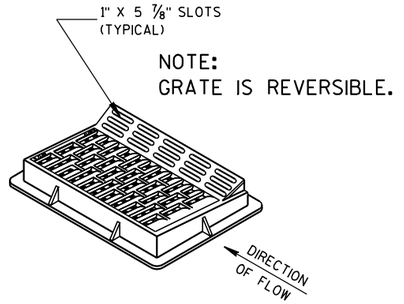
GENERAL NOTES

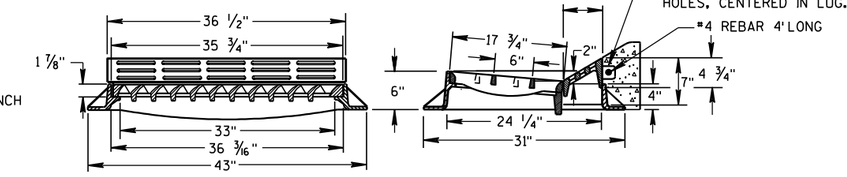
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





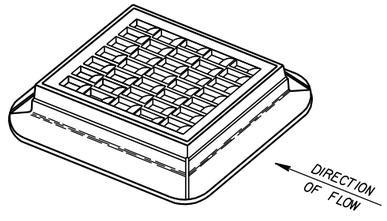


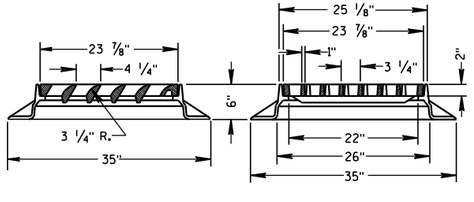
TYPE "HM"

(APPROXIMATE WEIGHT 414 LBS.)
FRAME..... 181 LBS.
GRATE..... 159 LBS.
CURB BOX..... 74 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE

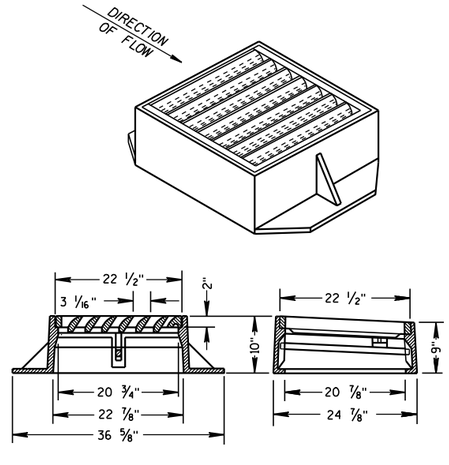




TYPE "S"

(APPROXIMATE WEIGHT 333 LBS.)

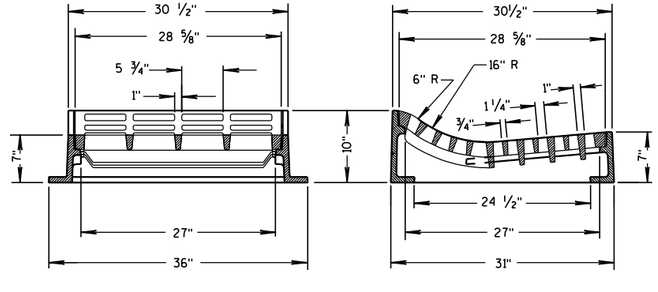
FRAME.....164 LBS.
GRATE..... 169 LBS.



TYPE "V"

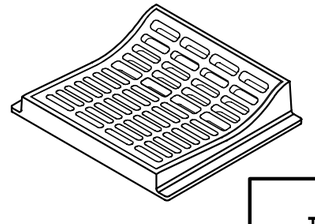
(APPROXIMATE WEIGHT 410 LBS.)

FRAME..... 269 LBS.
GRATE..... 136 LBS.
SAFETY BAR..... 5 LBS.



TYPE "T"

(APPROXIMATE WEIGHT 530 LBS.)
FRAME.....270 LBS.
GRATE.....260 LBS.
USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

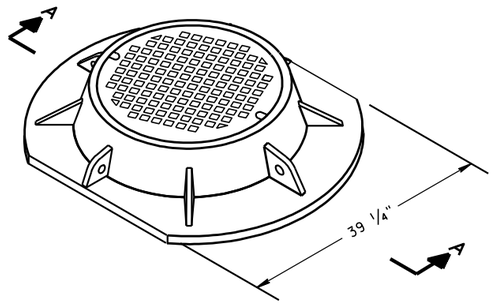
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER 755
FHWA

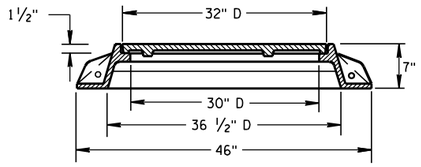
6

S.D.D. 8 A 5-18c

6

S.D.D. 8 A 5-18c



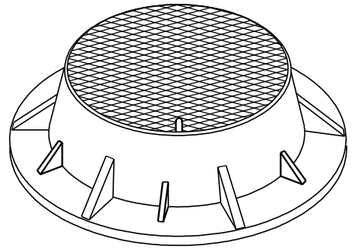


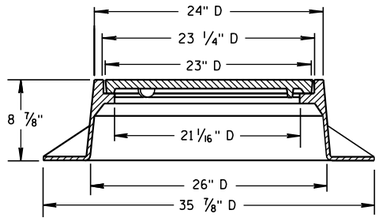
SECTION A-A

TYPE "K"

(APPROXIMATE WEIGHT 439 LBS.)

FRAME.....216 LBS.
LID.....223 LBS.

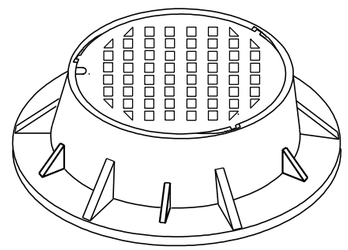


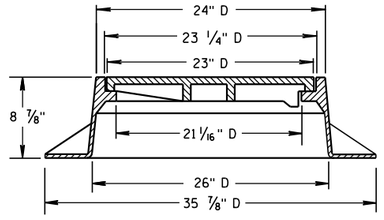


TYPE "J"

(APPROXIMATE WEIGHT 267 LBS.)

FRAME.....152 LBS.
LID.....115 LBS.





TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 267 LBS.)

FRAME.....158 LBS.
LID.....109 LBS.

(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

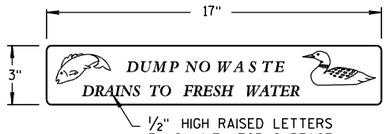
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

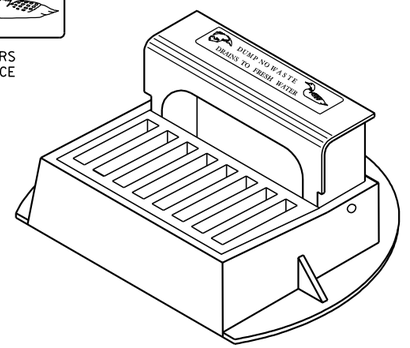
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

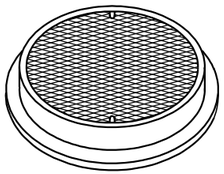
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

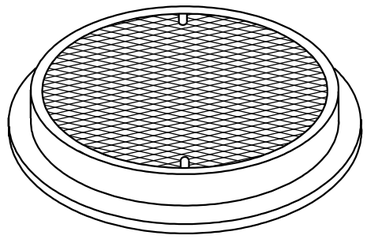
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

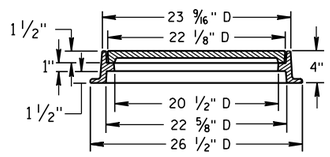


LOGO DETAIL





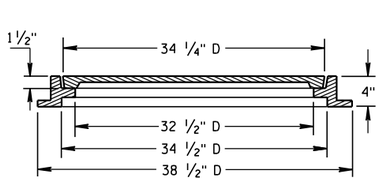




TYPE "L"

(APPROXIMATE WEIGHT 158 LBS.)

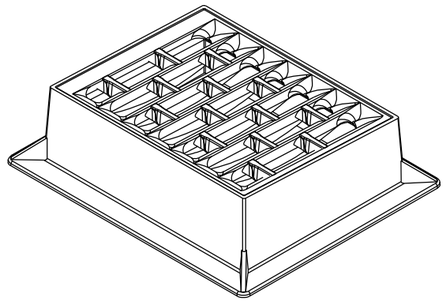
FRAME.....81 LBS.
LID.....77 LBS.

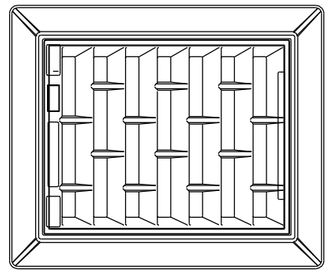


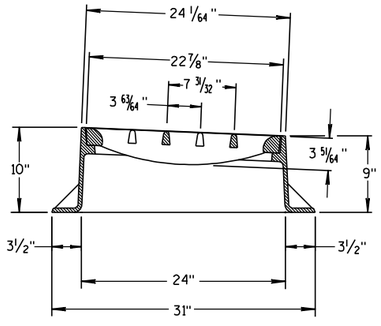
TYPE "M"

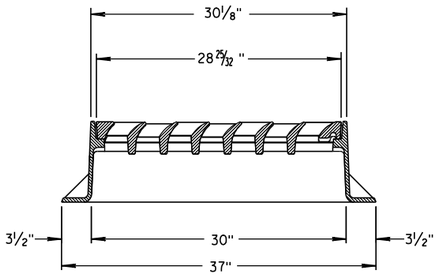
(APPROXIMATE WEIGHT 377 LBS.)

FRAME..... 125 LBS.
LID..... 252 LBS.

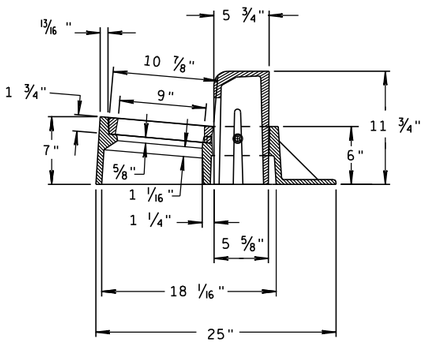








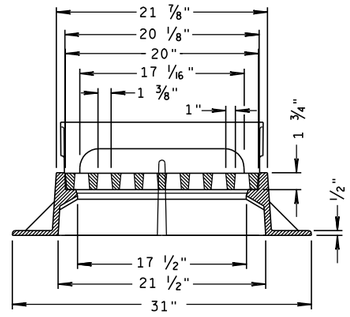
INLET COVER TYPE "BW"



INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 344 LBS.)

FRAME.....206 LBS.
GRATE..... 46 LBS.
CURB BOX..... 92 LBS.



INLET COVERS, TYPE BW, Z
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

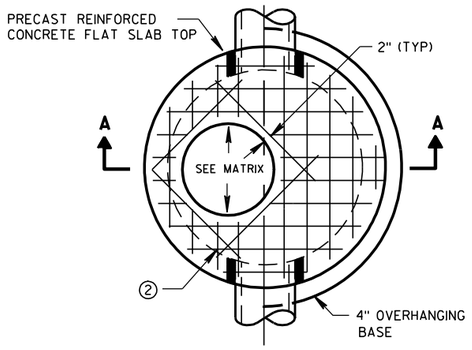
APPROVED
6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS | 1756 | NT
ENGINEER
FHWA

6

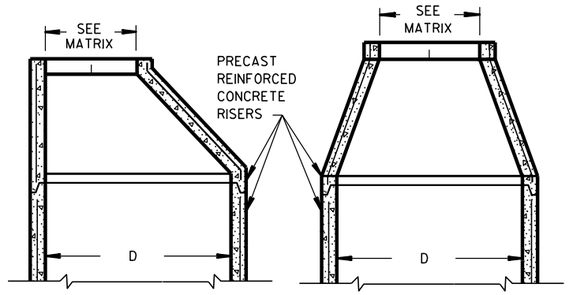
S.D.D. 8 A 5-18d

6

S.D.D. 8 A 5-18d

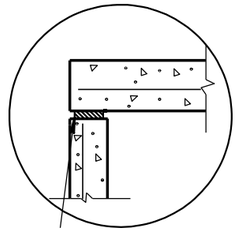


PLAN VIEW CIRCULAR OPENING

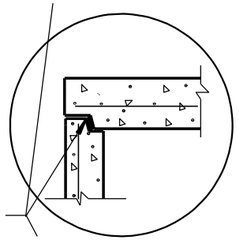


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

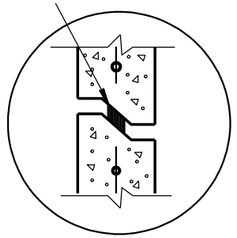


TOP WITH PLAIN END JOINT



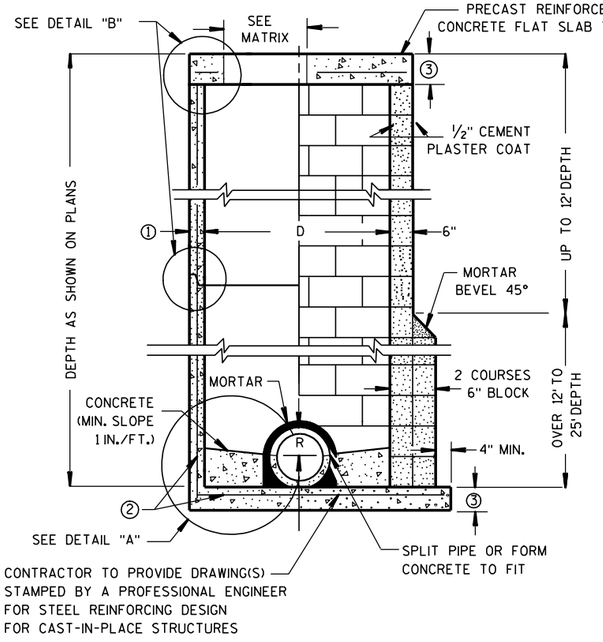
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



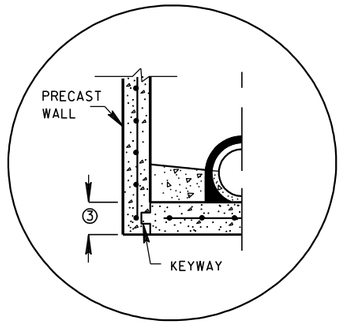
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

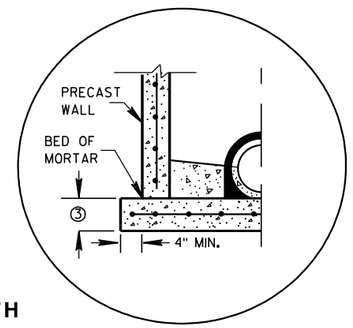


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

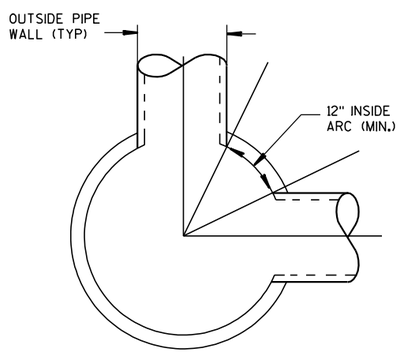


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

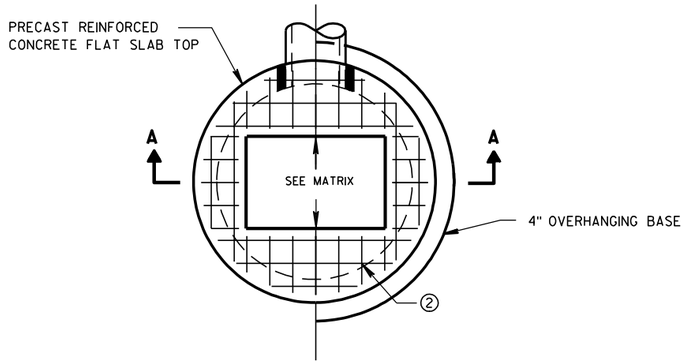
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

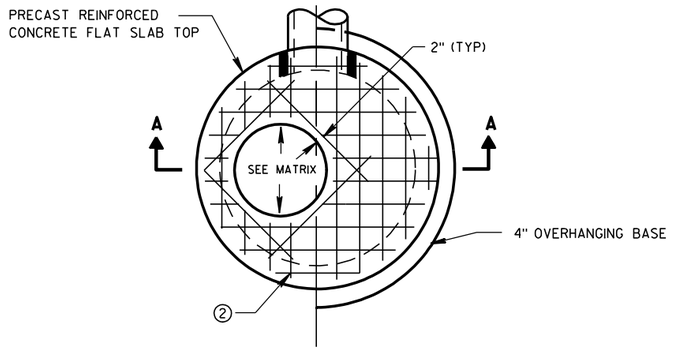
6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER 757

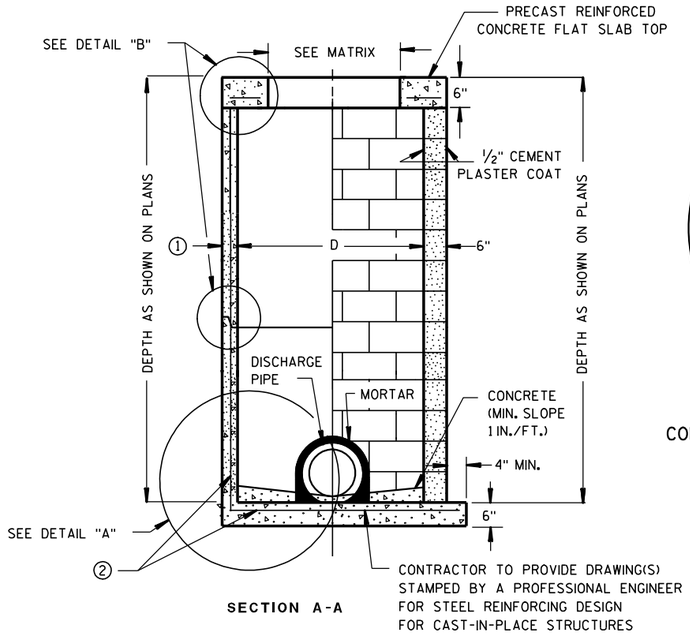
FHWA



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING



SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

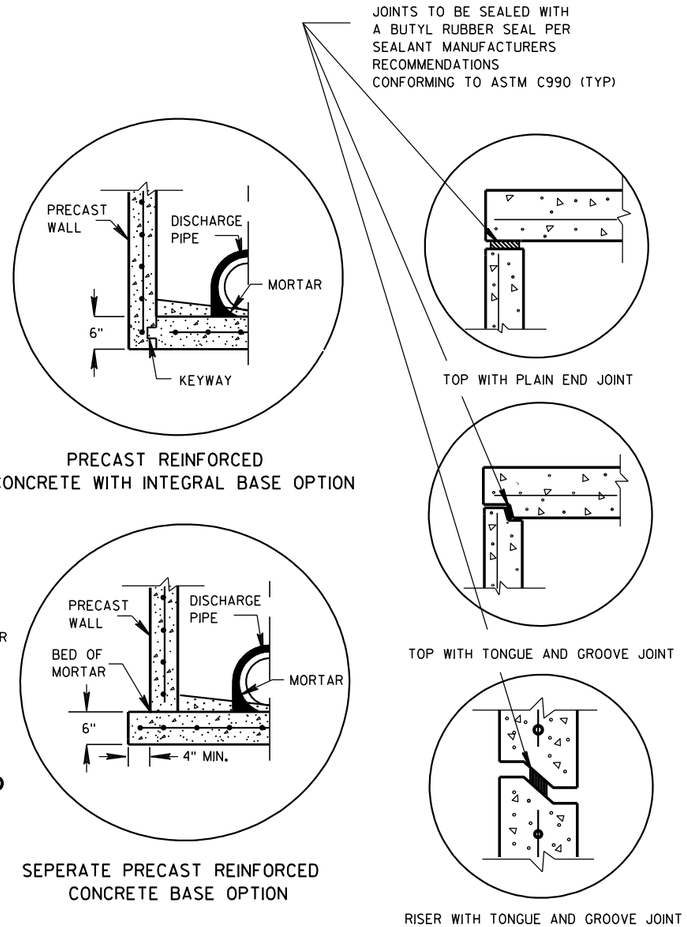
CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

PRECAST REINFORCED
CONCRETE WITH INTEGRAL BASE OPTION

SEPERATE PRECAST REINFORCED
CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

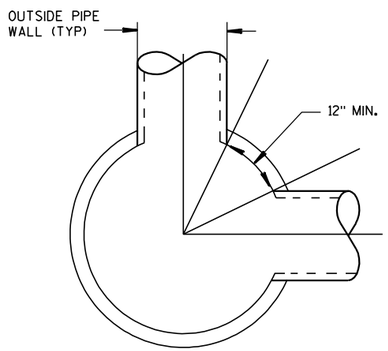
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

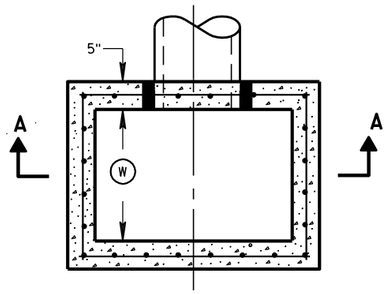
STATE OF WISCONSIN
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6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

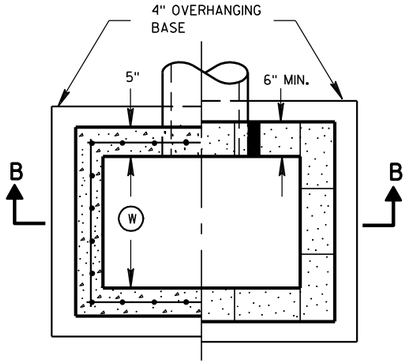
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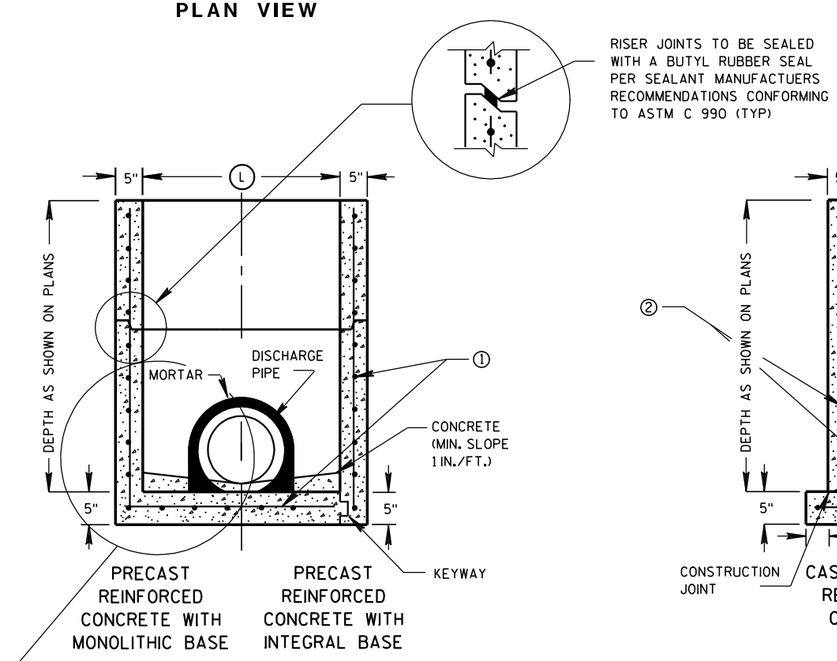
S.D.D. 8 C 6-1



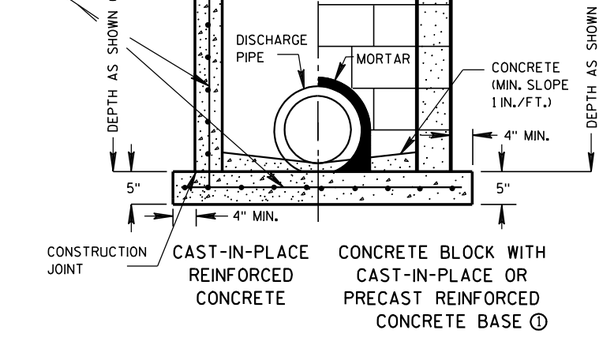
PLAN VIEW



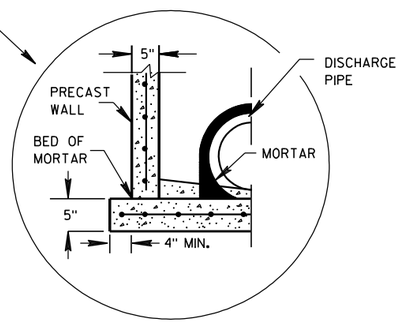
PLAN VIEW



SECTION A-A



SECTION B-B



SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

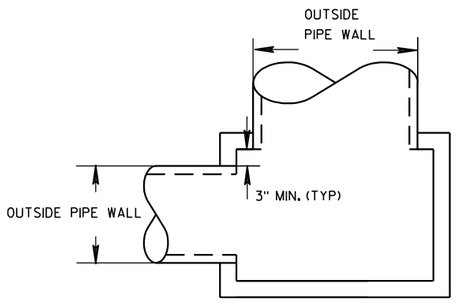
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24

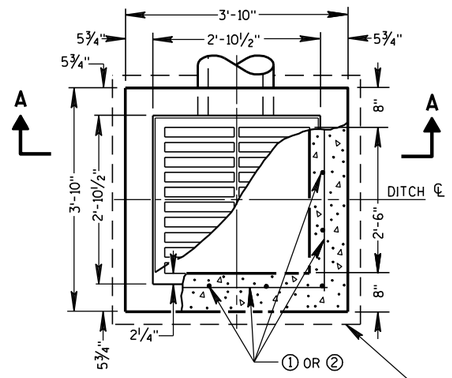


DETAIL "A"

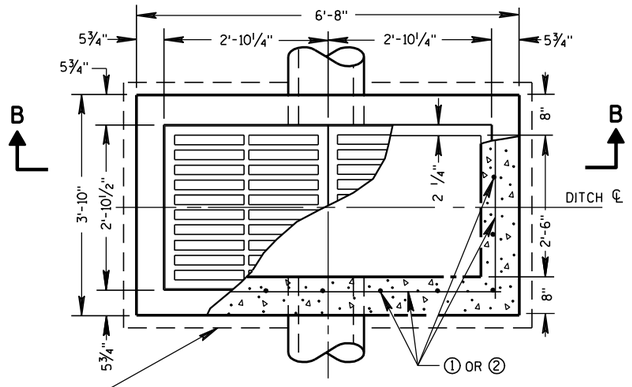
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
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APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS D 759 IT — ENGINEER
FHWA

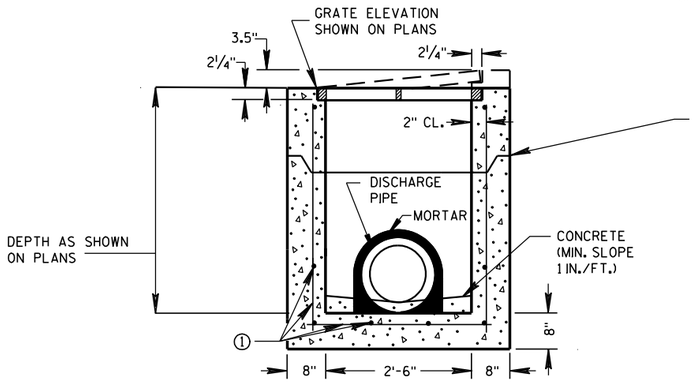


PLAN VIEW

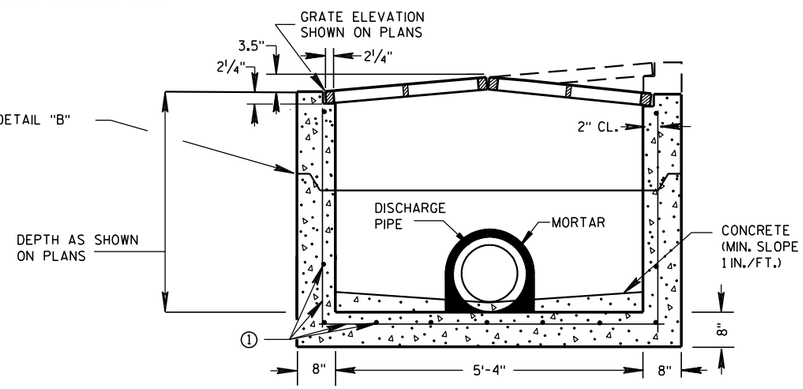


PLAN VIEW

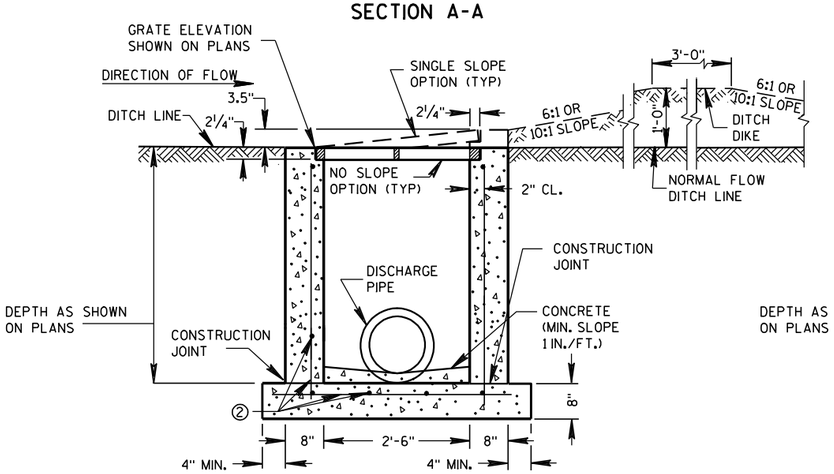
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



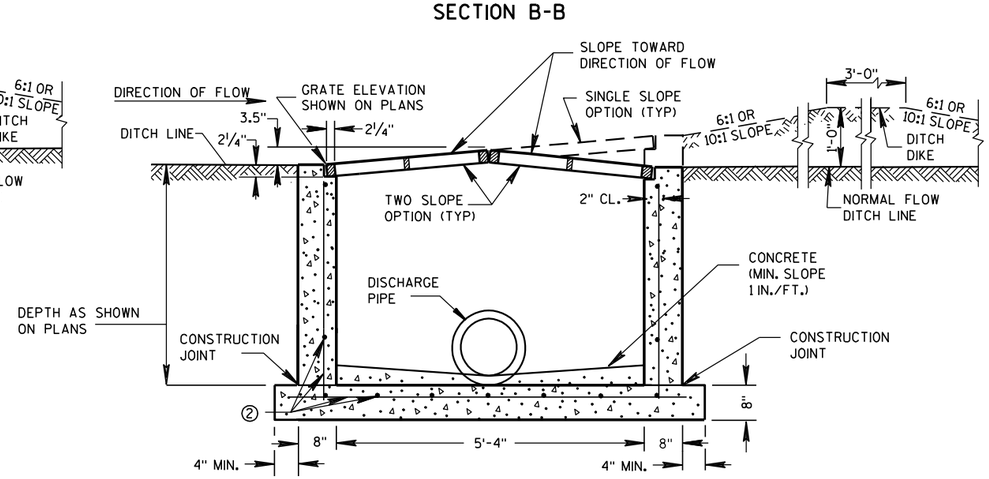
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

GENERAL NOTES

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DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

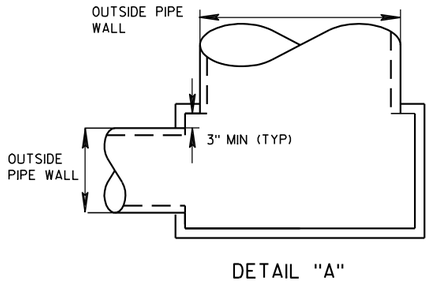
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

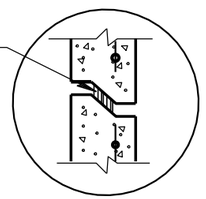
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

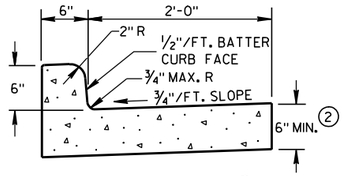
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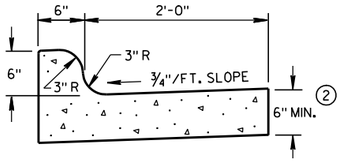
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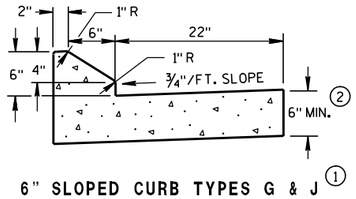
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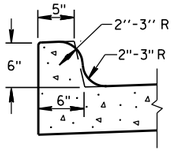
TYPES A & D (1)



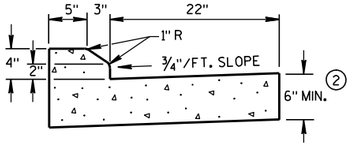
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

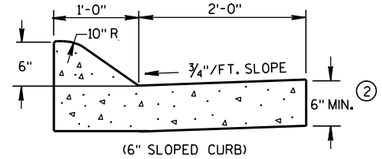


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

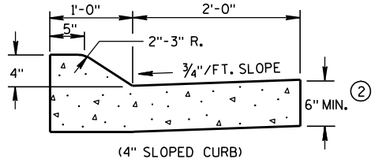


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

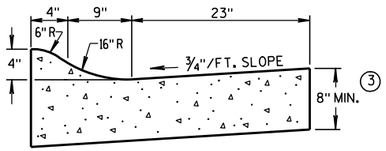


(6" SLOPED CURB)



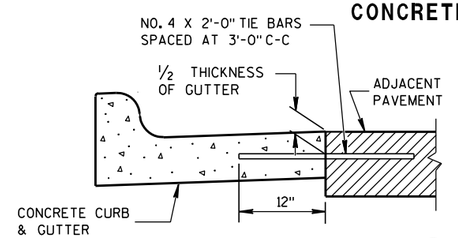
(4" SLOPED CURB)

TYPES A & D (1)

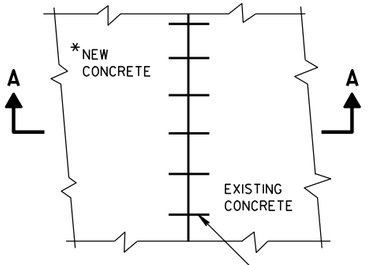


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"

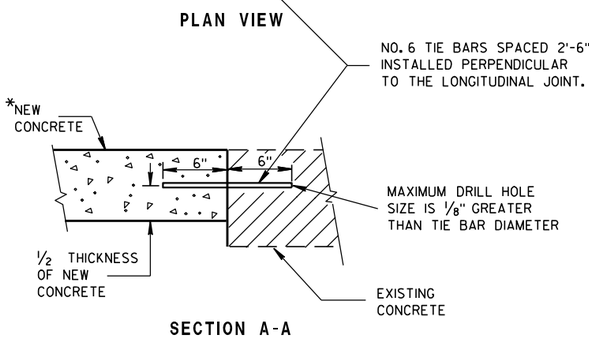


TYPICAL TIE BAR LOCATION (1)



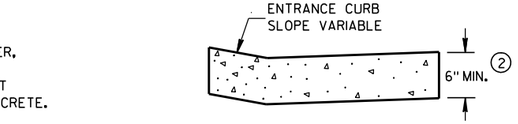
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.



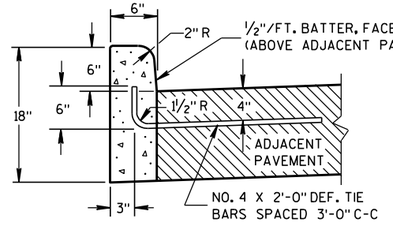
SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

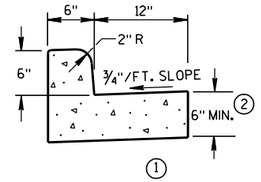


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

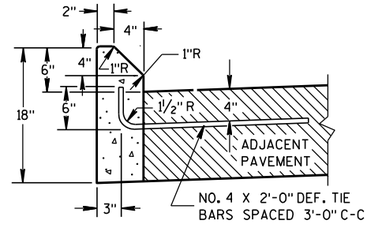


TYPES A & D (1)



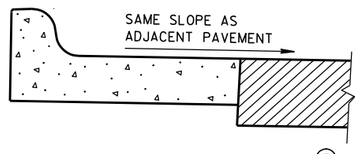
TYPES A & D (1)

CONCRETE CURB & GUTTER 18"



TYPES G & J (1)

CONCRETE CURB



REVERSE SLOPE GUTTER (5)

(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

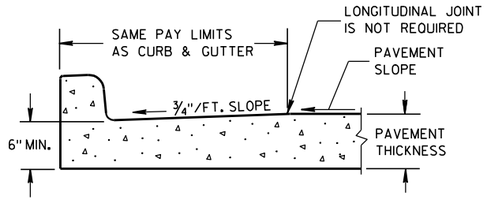
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

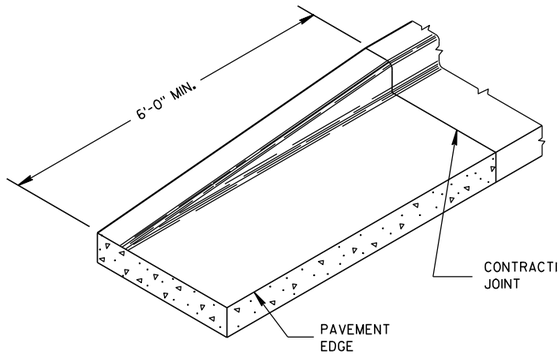
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(4) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(5) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

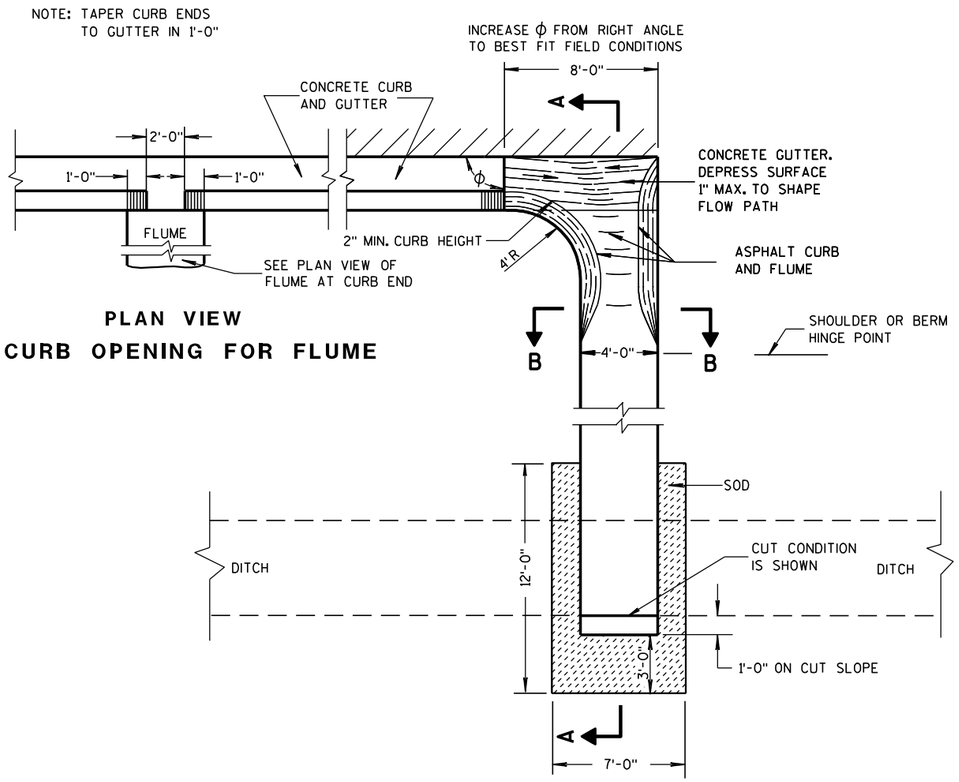
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER
FHWA

6

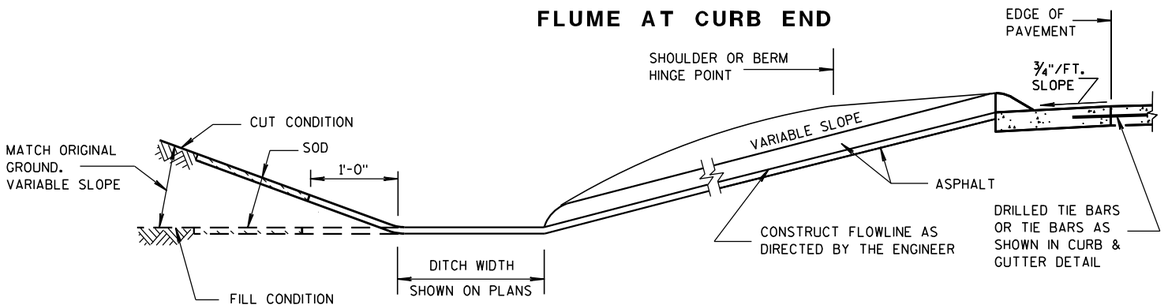
S.D.D. 8 D 1-17

ASPHALTIC FLUME

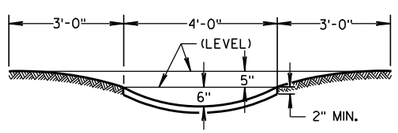


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

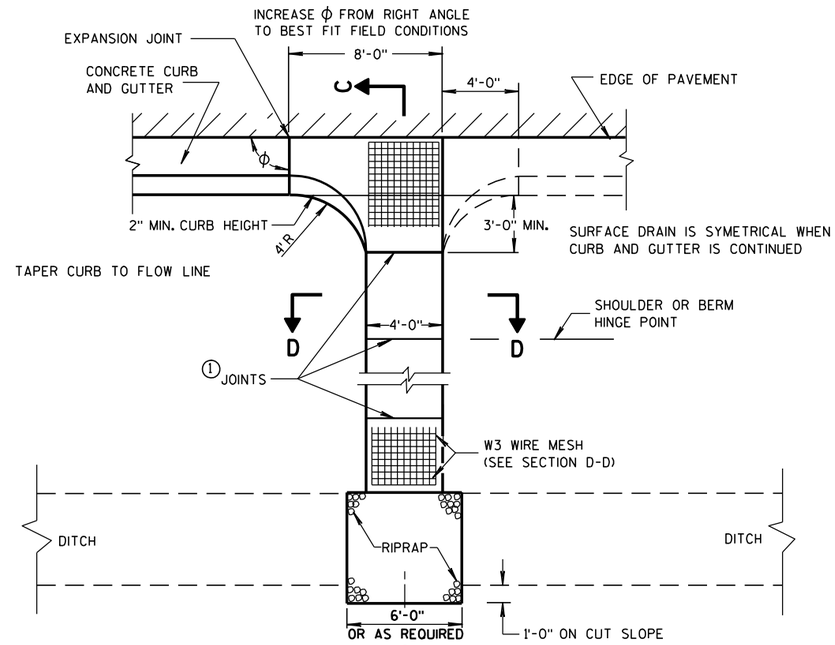
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

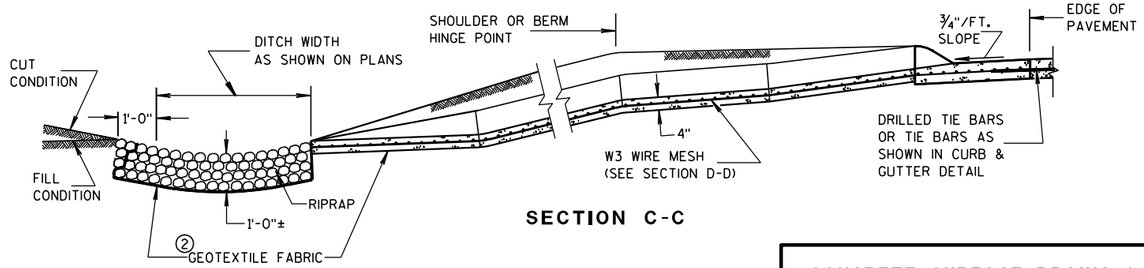
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

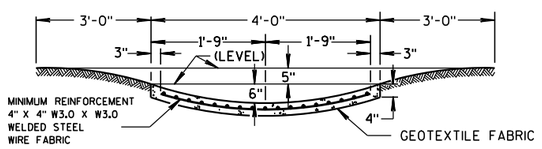
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

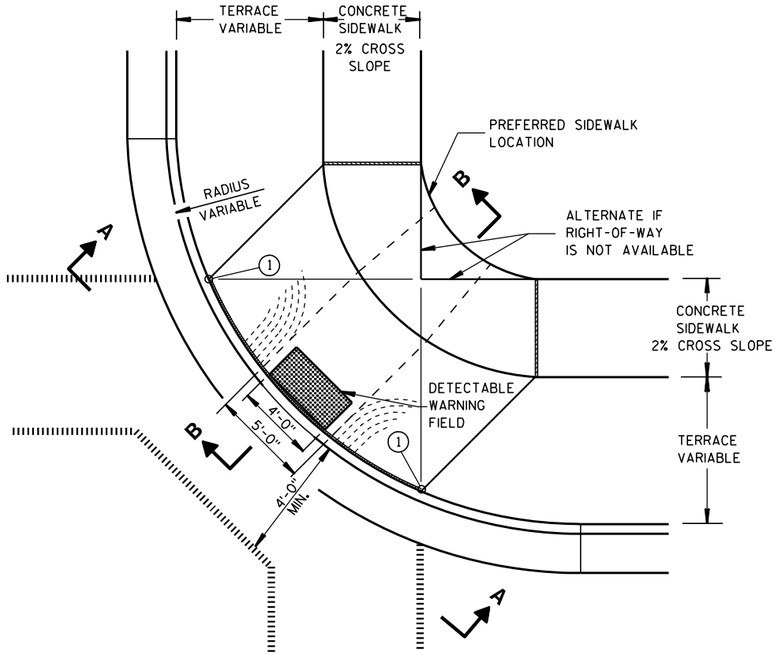
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
762
MENT
FHWA

6

S.D.D. 8 D 4-5

6

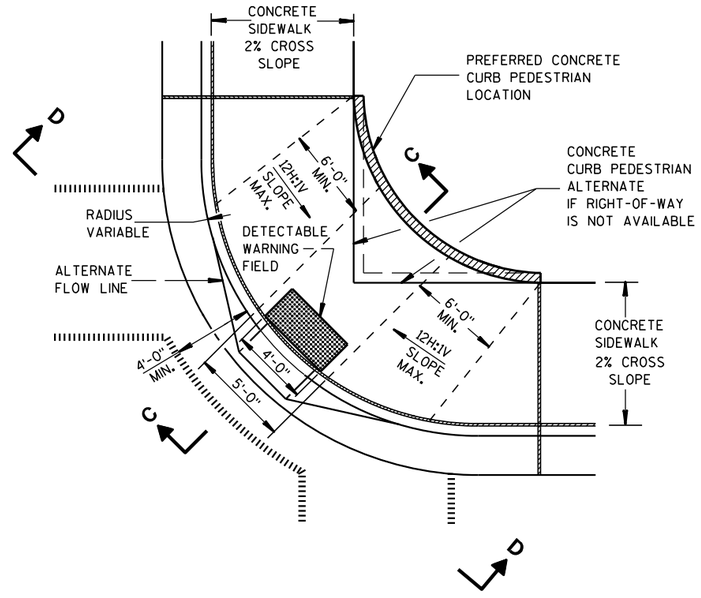
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

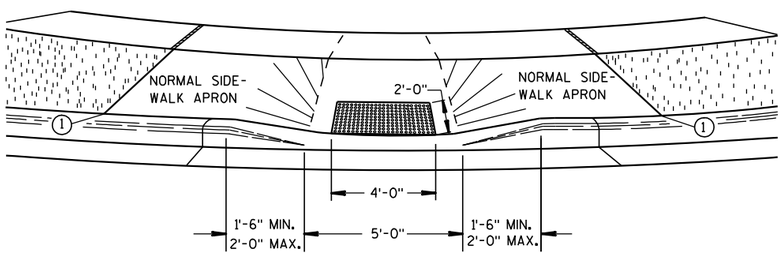
SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

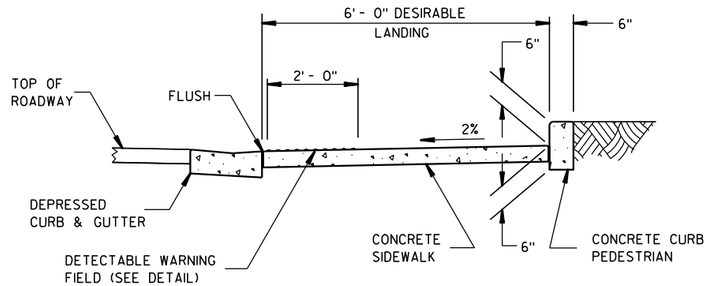
(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

LEGEND

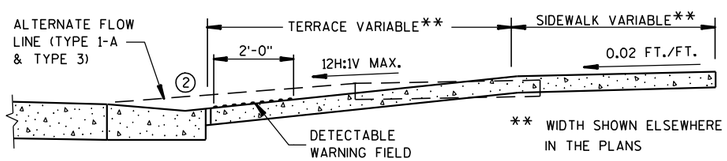
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



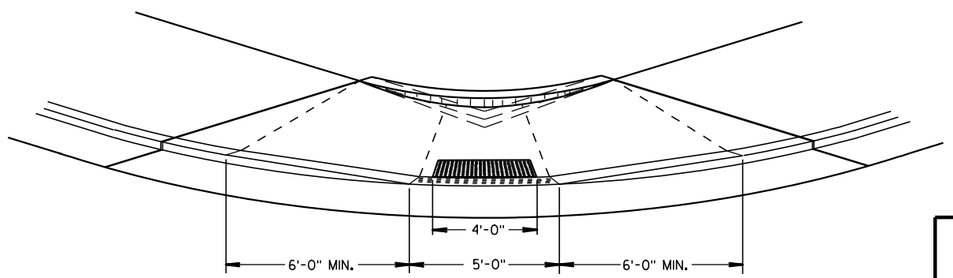
VIEW A-A



SECTION C-C



SECTION B-B

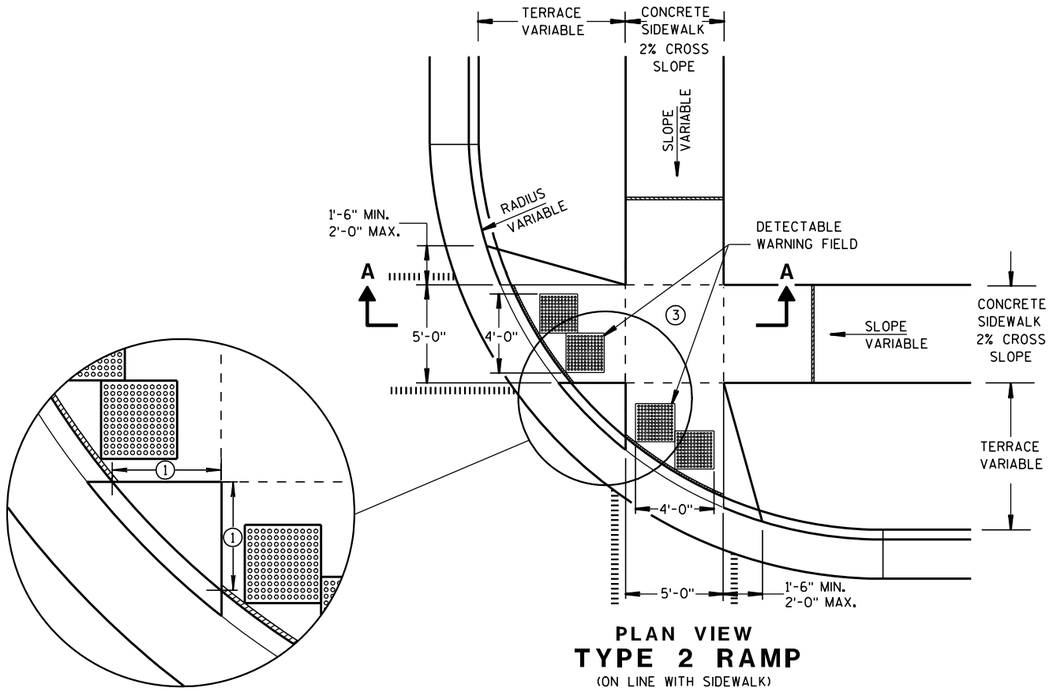


VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

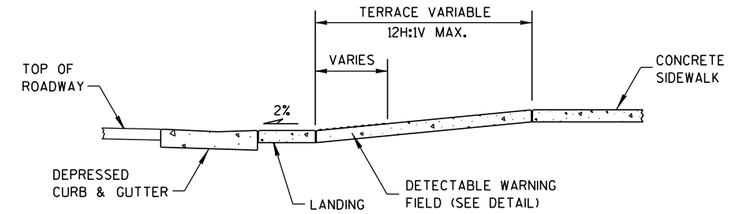
6
S.D.D. 8 D 5-14a



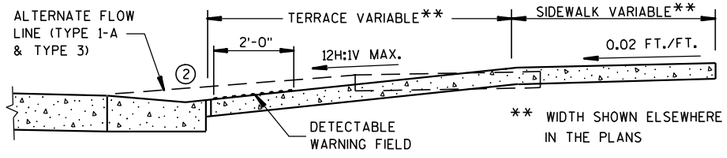
PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

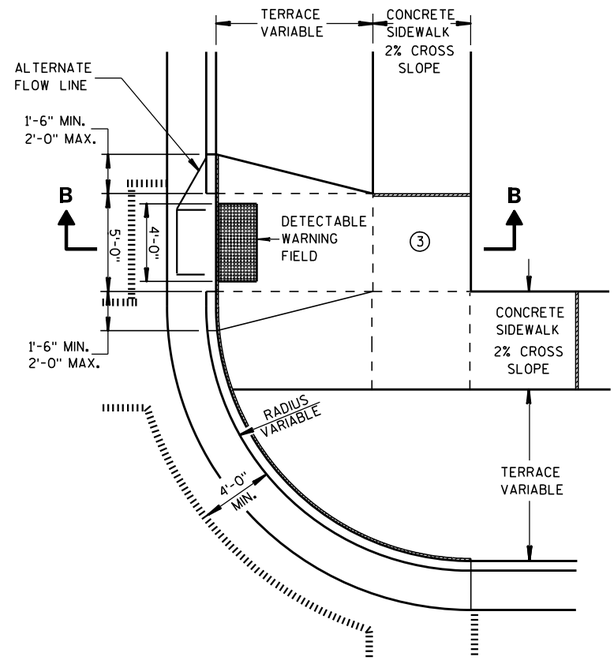
(1) WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

(3) PROVIDE LANDING AT TOP OF RAMP WITH NO MORE THAN 2% SLOPE IN ANY DIRECTION.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

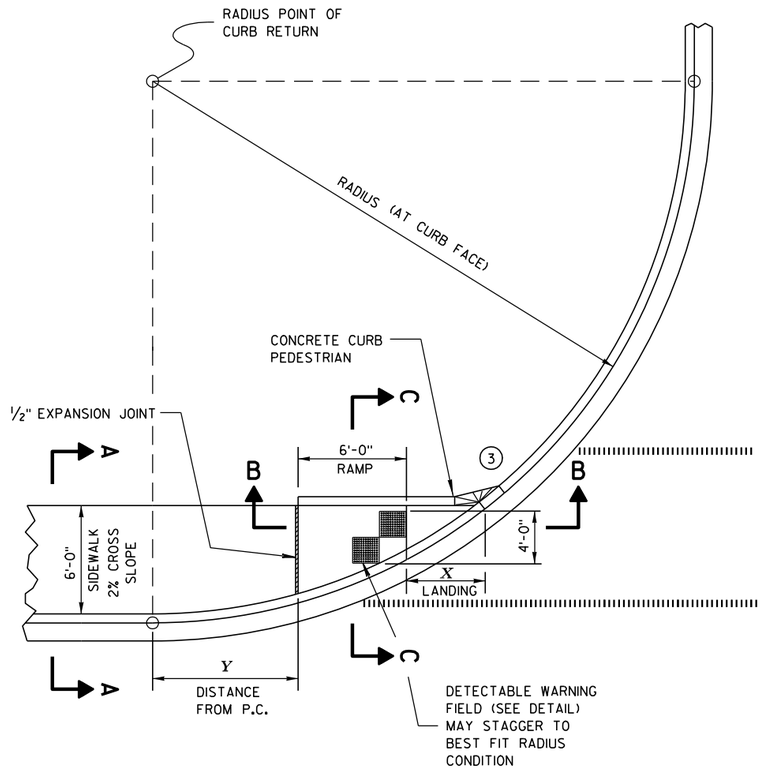
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

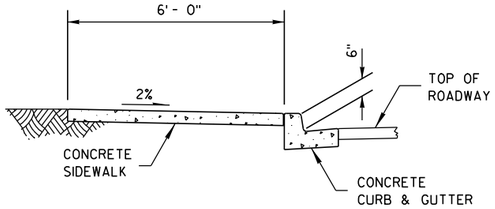
S.D.D. 8 D 5-14b



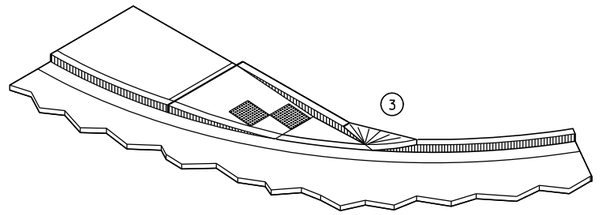
CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

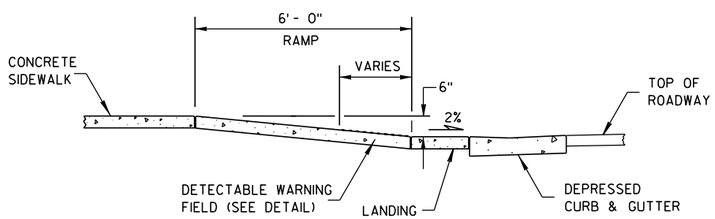
INTERMEDIATE RADII CAN BE INTERPOLATED



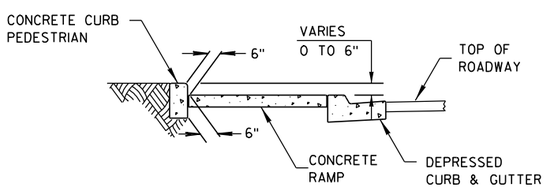
SECTION A-A



ISOMETRIC VIEW



SECTION B-B



SECTION C-C

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

LEGEND

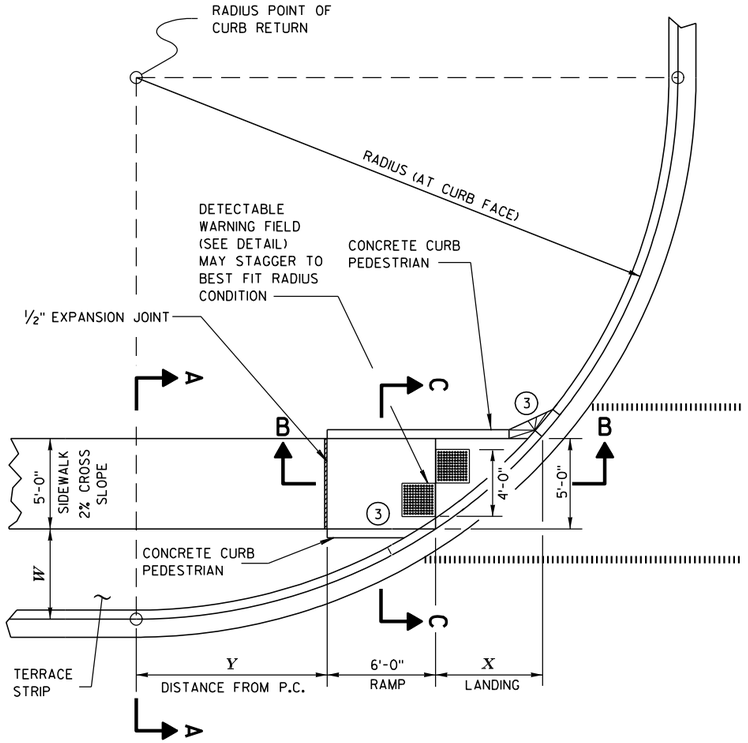
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 4A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 5-14c



CURB RAMP TYPE 4B
PLAN VIEW

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

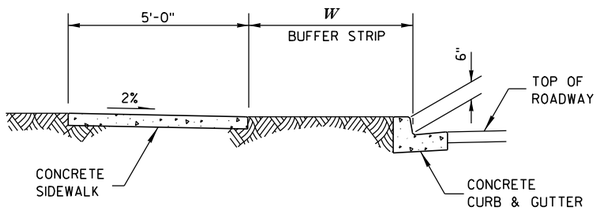
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

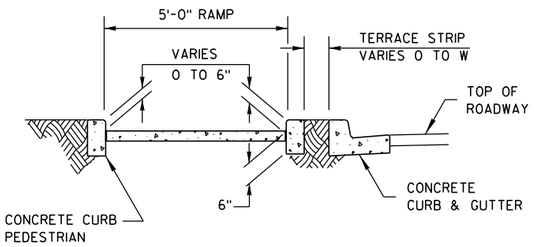
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

RADIUS (AT CURB FACE)	W = 3'- 0"		W = 4'- 0"		W = 5'- 0"		W = 6'- 0"		W = 7'- 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"
70 FEET	12'-2¾"	14'-3¼"	11'-¼"	17'-4"	10'-1"	19'-11¾"	9'-3¾"	22'-4¼"	8'-8¼"	24'-6¼"
80 FEET	13'-2"	15'-8½"	11'-10½"	18'-11¾"	10'-10¾"	21'-10"	10'-1"	24'-4¾"	9'-5"	26'-8¾"
90 FEET	14'- ½"	17'-½"	12'-8¼"	20'-6½"	11'-7¾"	23'-7"	10'-9¾"	26'-3¾"	10'-1¼"	28'-9½"
100 FEET	14'-10½"	18'-3¾"	13'-5½"	22'-0"	12'-4¼"	25'-2¾"	11'-5¾"	28'-1½"	10'-9"	30'-9"

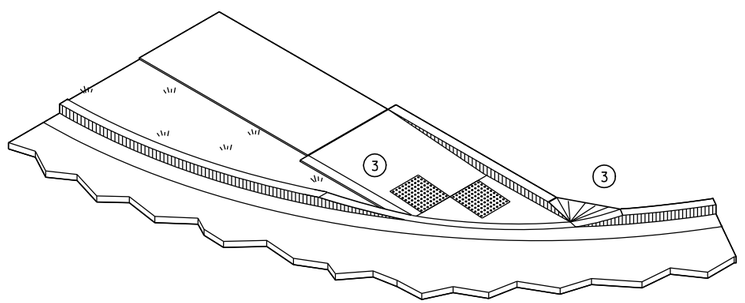
INTERMEDIATE RADII CAN BE INTERPOLATED



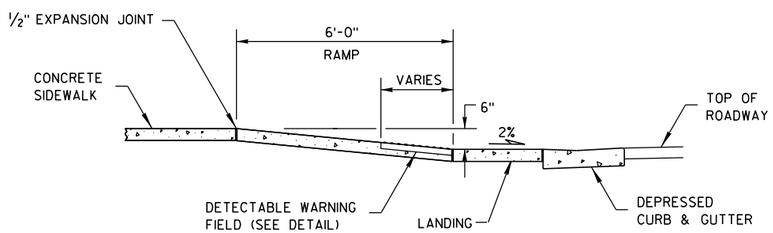
SECTION A-A



SECTION C-C



ISOMETRIC VIEW



SECTION B-B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

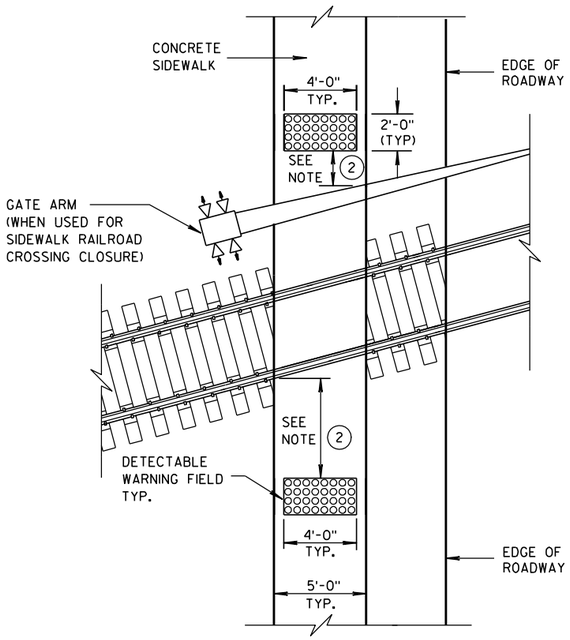
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B

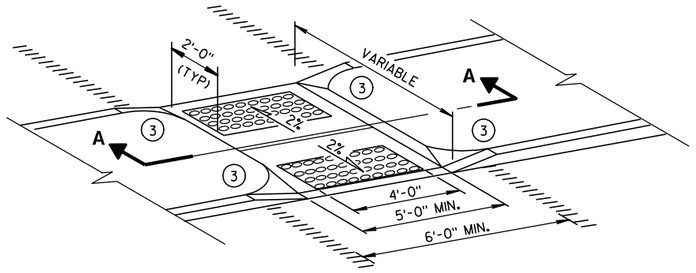
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

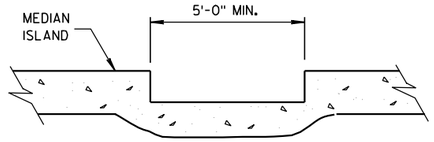
S.D.D. 8 D 5-14d



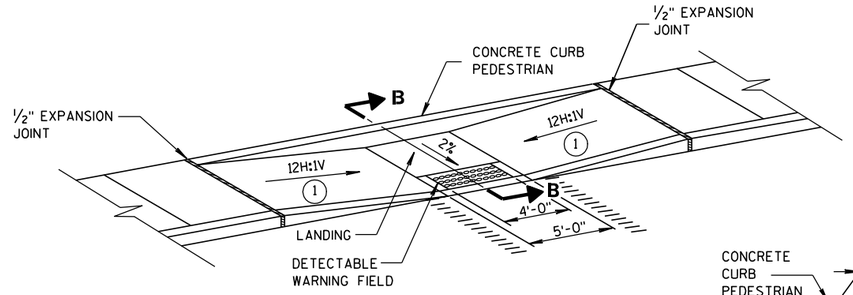
TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



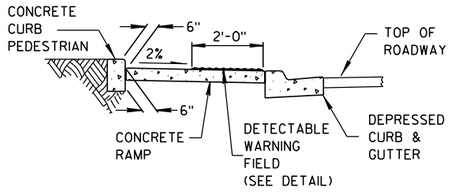
MEDIAN ISLAND NON-ELEVATED CROSSING
TYPE 5



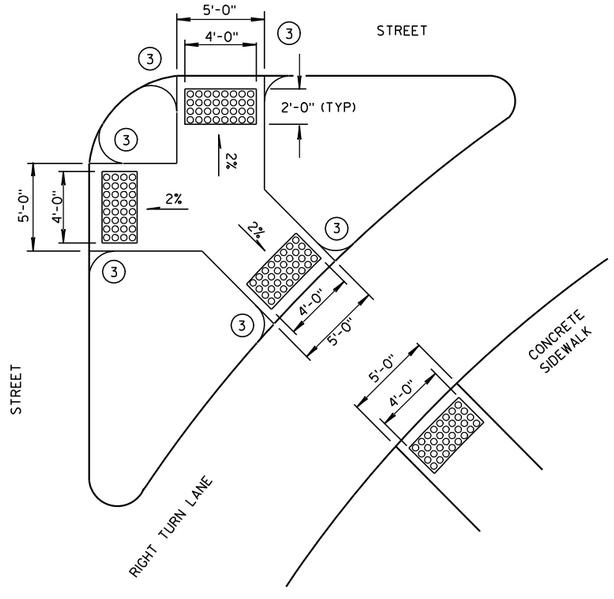
SECTION A-A



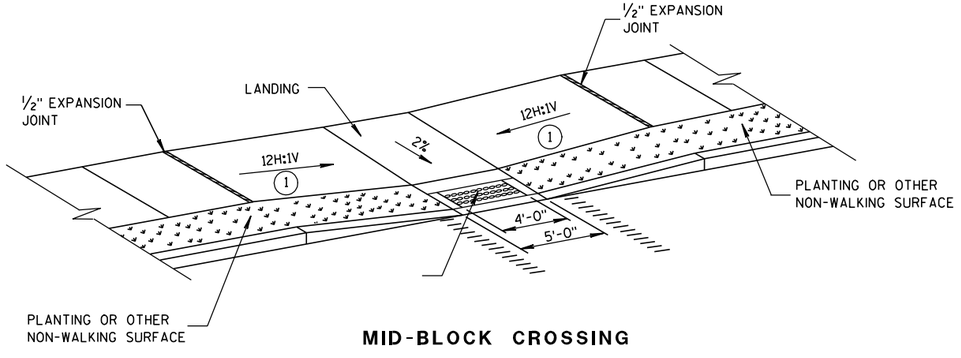
MID-BLOCK CROSSING
TYPE 7A



SECTION B-B



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

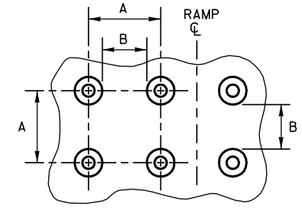
(1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

LEGEND

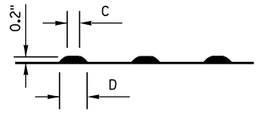
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



PLAN VIEW

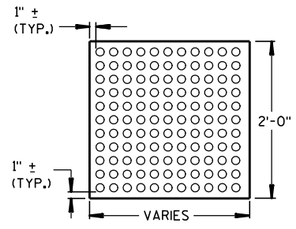
	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW

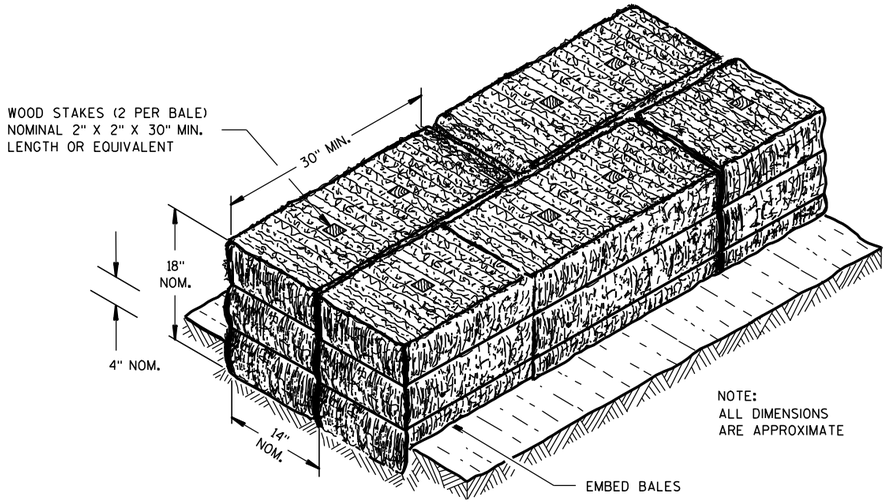
DETECTABLE WARNING FIELD (TYPICAL)

CURB RAMPS TYPES 5, 6, 7A, 7B & 8

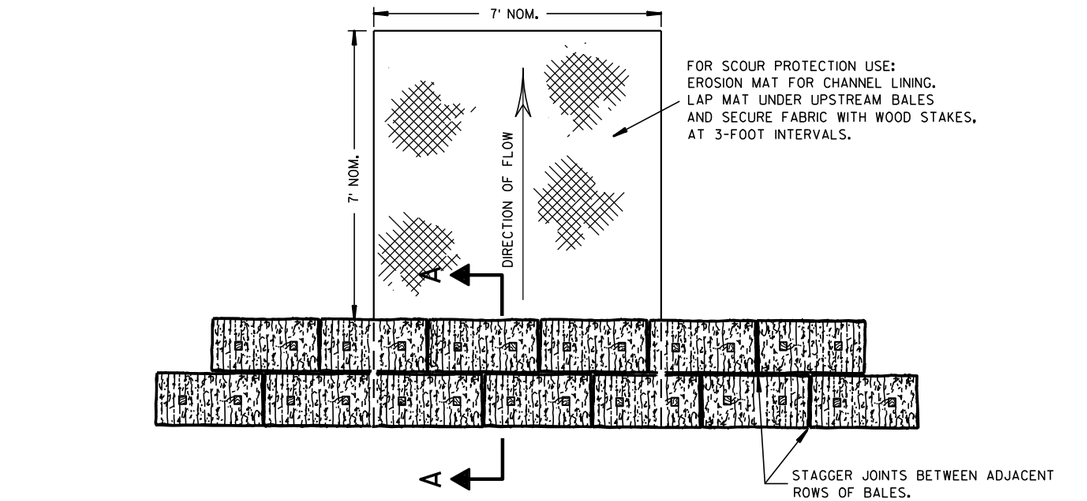
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2-9-10 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER 767 ENT
FHWA

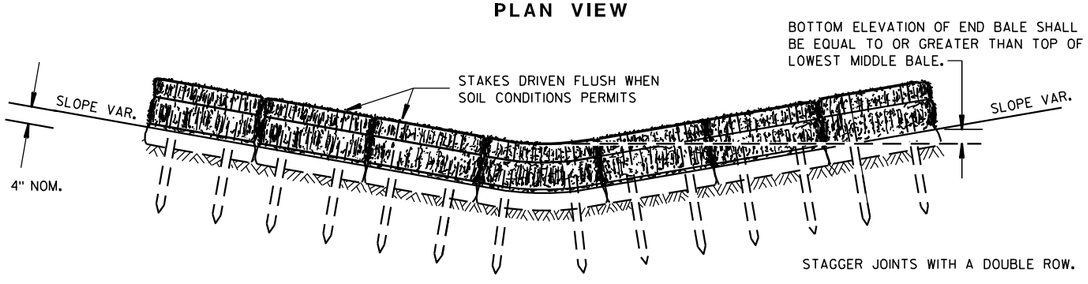
6
S.D.D. 8 D 5-14e



SECTION A-A



PLAN VIEW



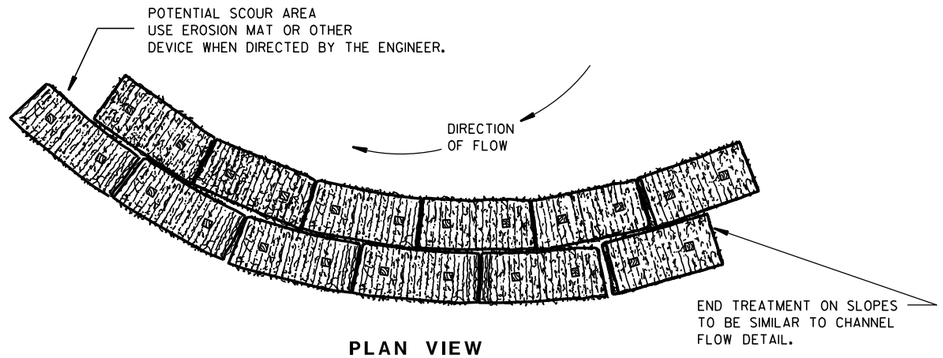
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

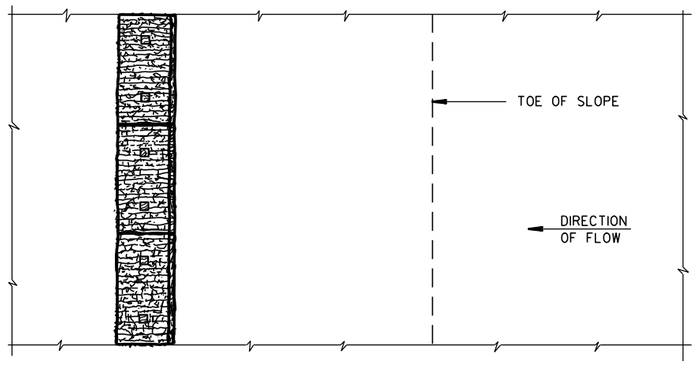
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

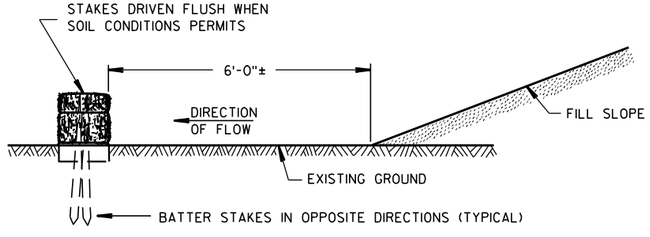


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

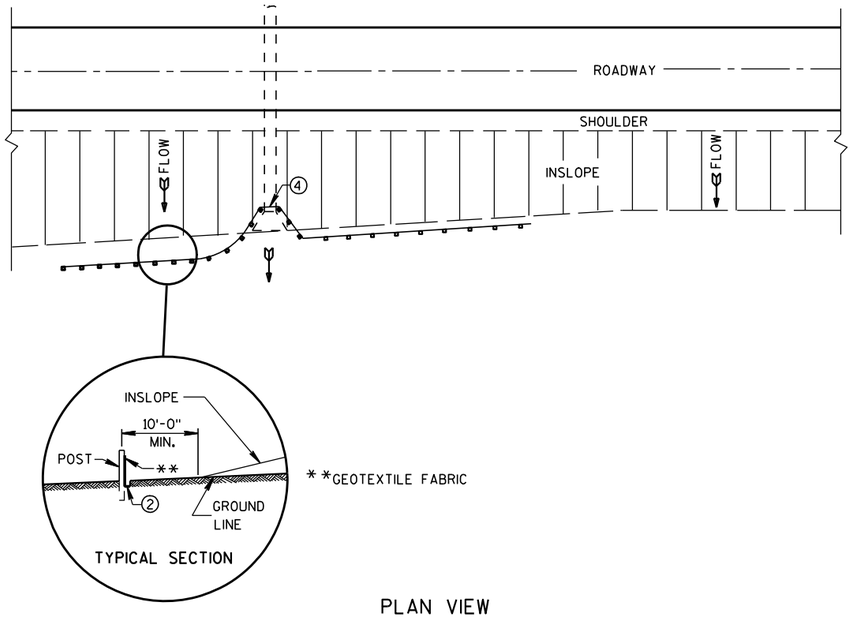
768

6

S.D.D. 8 E 8-3

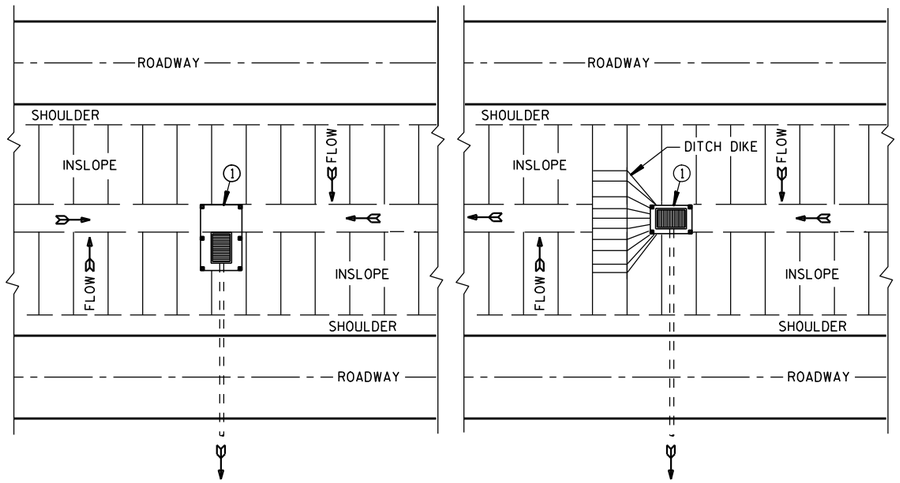
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



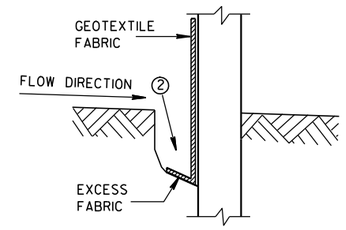
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

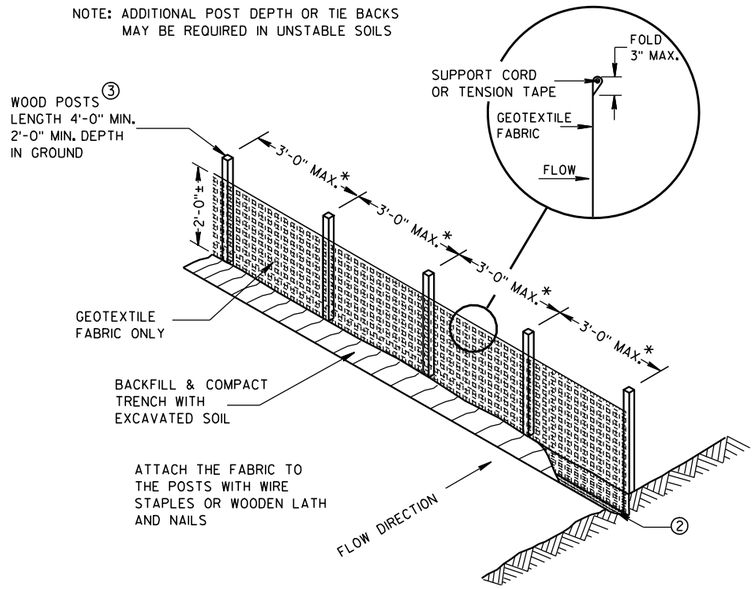
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

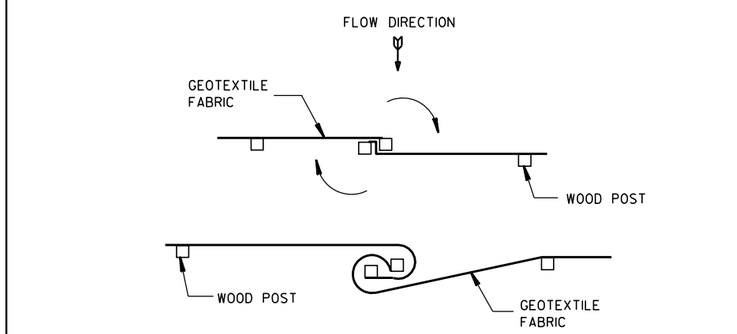
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



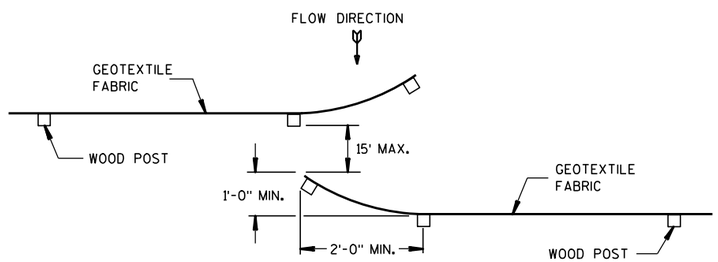
TRENCH DETAIL



SILT FENCE

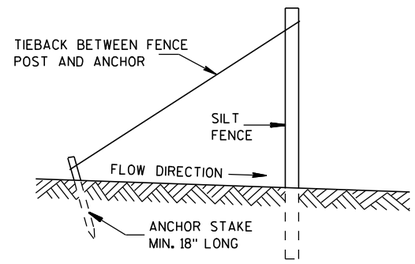


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

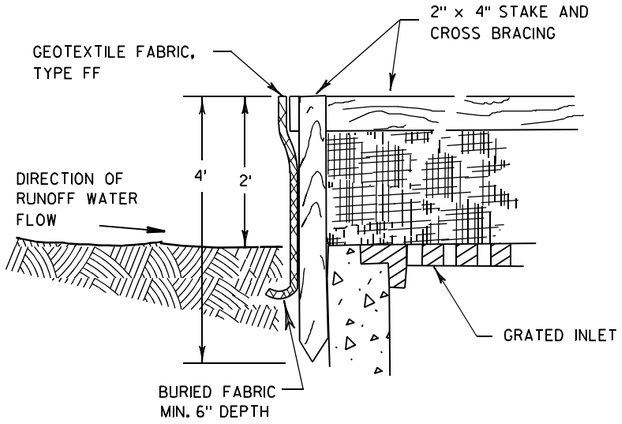
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

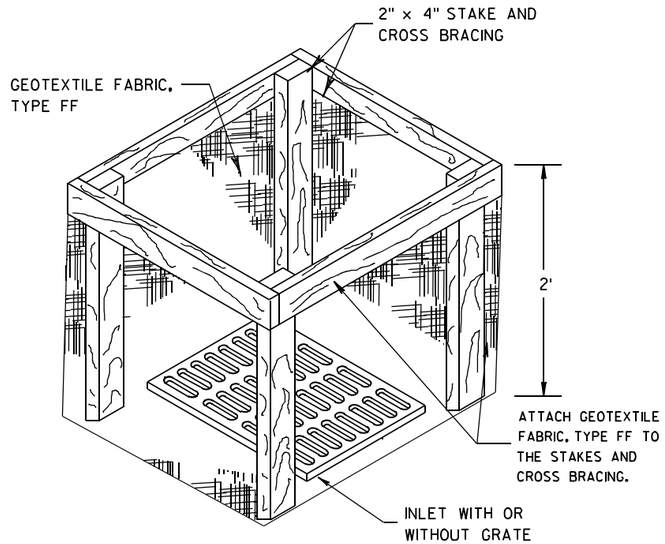
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S.D.D. 8 E 9-6

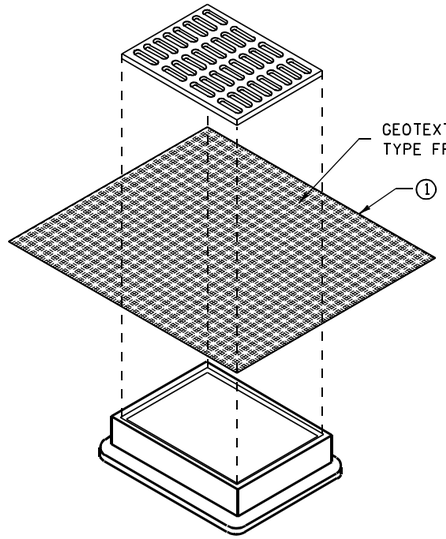
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S.D.D. 8 E 9-6



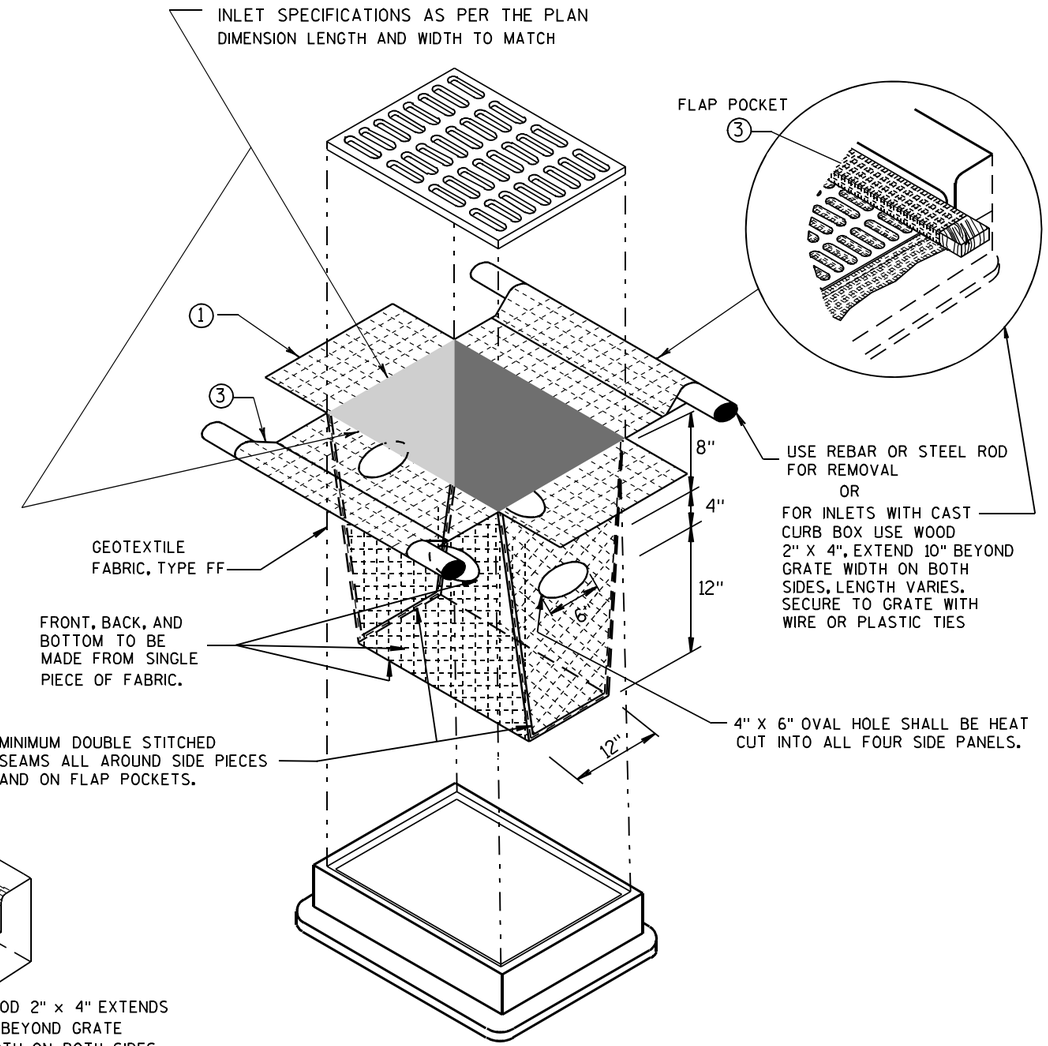


INLET PROTECTION, TYPE A



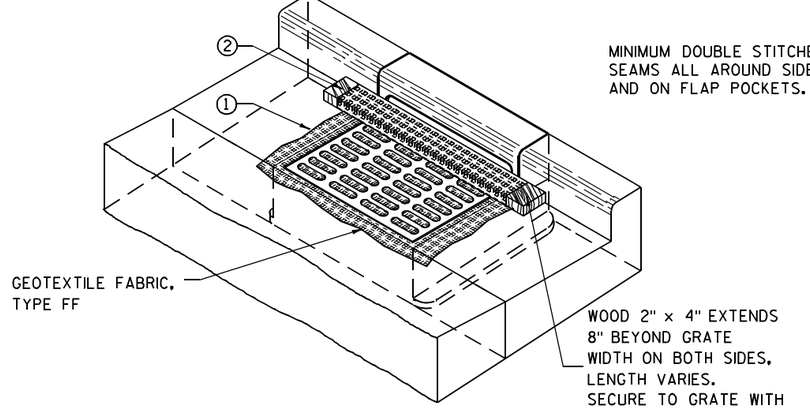
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

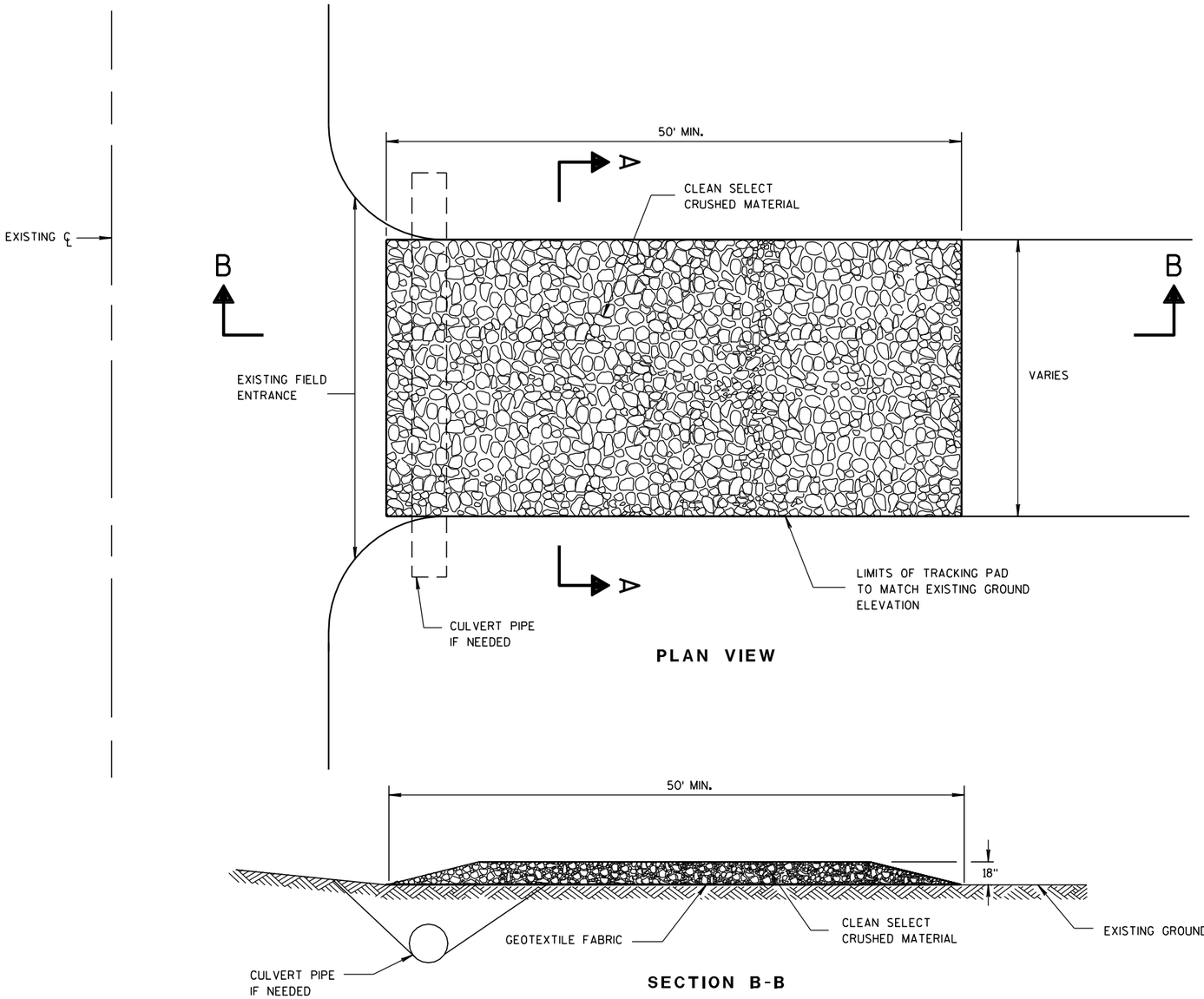
FHWA

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S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

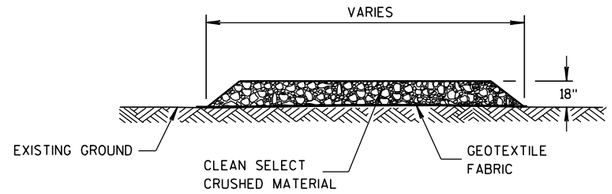
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 DATE
/S/ Jerry H. Zona
ROADWAY STANDARDS ENGINEER 771 ENT
FHWA

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

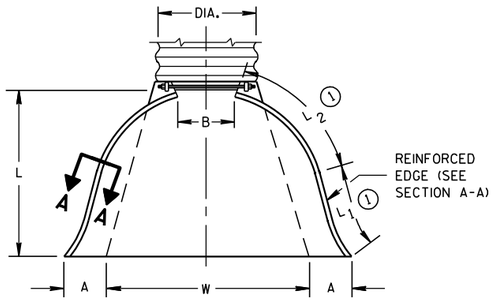
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

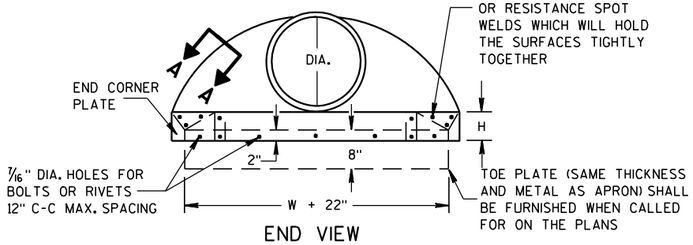
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

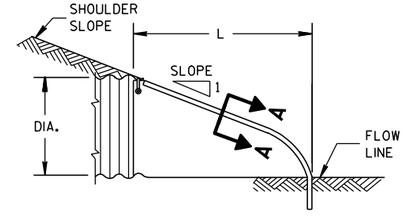
*MINIMUM
**MAXIMUM



PLAN VIEW

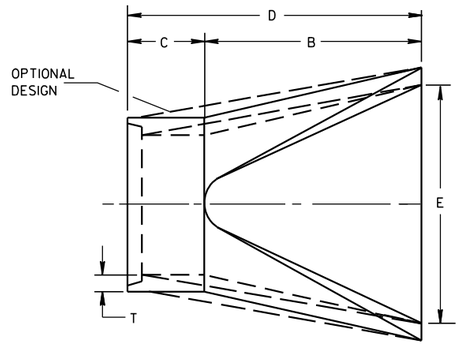


END VIEW

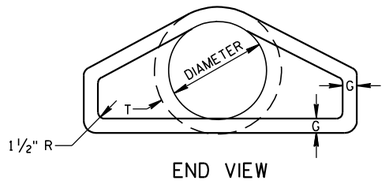


SIDE ELEVATION

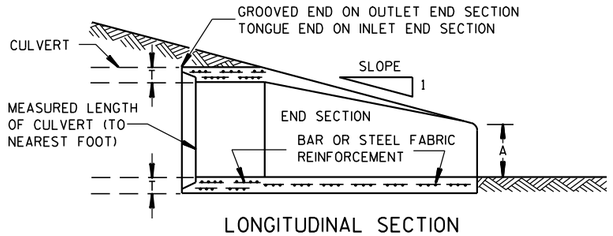
METAL ENDWALLS



PLAN

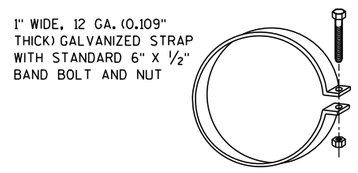


END VIEW



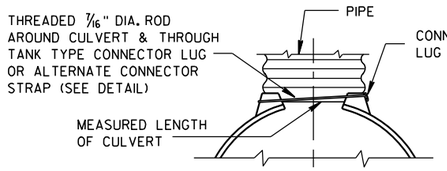
LONGITUDINAL SECTION

CONCRETE ENDWALLS

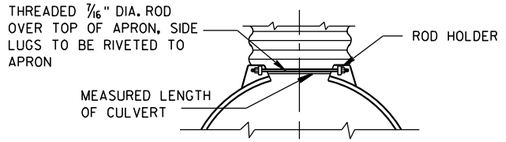


ALTERNATE FOR TYPE 1 CONNECTION

END SECTION CONNECTOR STRAP

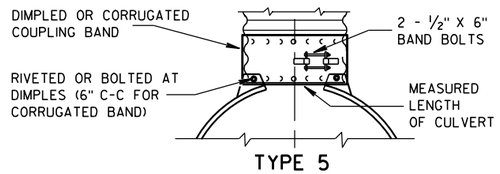


TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE

TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

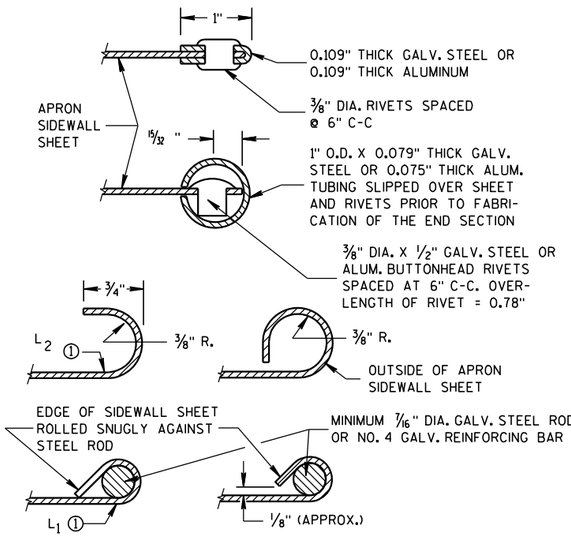
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

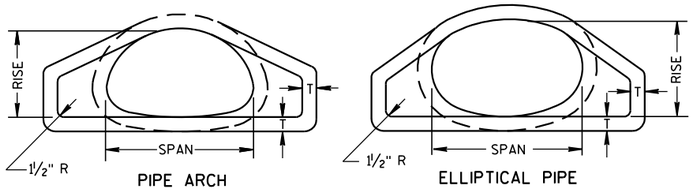
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

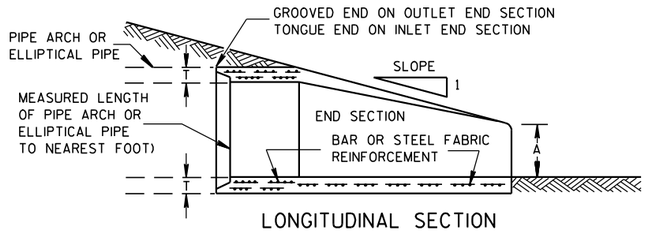
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT 772 ENGINEER
FHWA

6

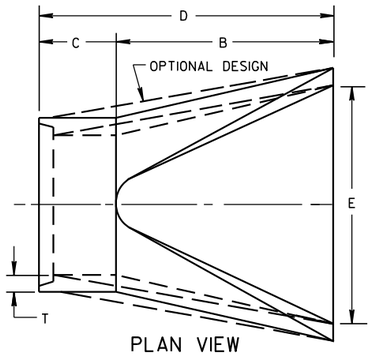
S.D.D. 8 F 1-11



END VIEW

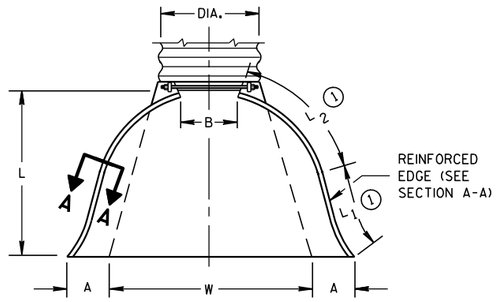


LONGITUDINAL SECTION

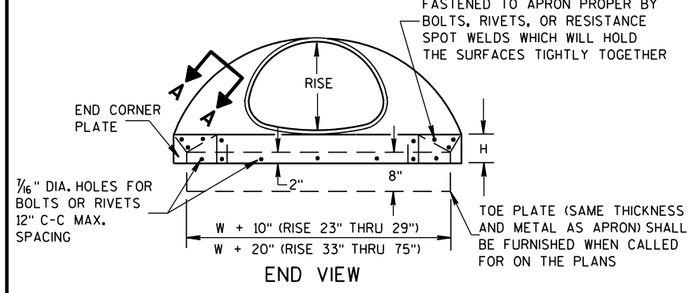


PLAN VIEW

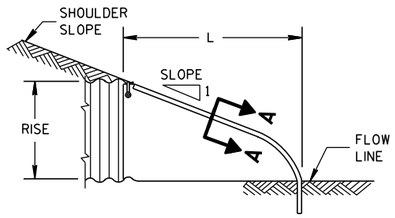
CONCRETE ENDWALLS



PLAN VIEW

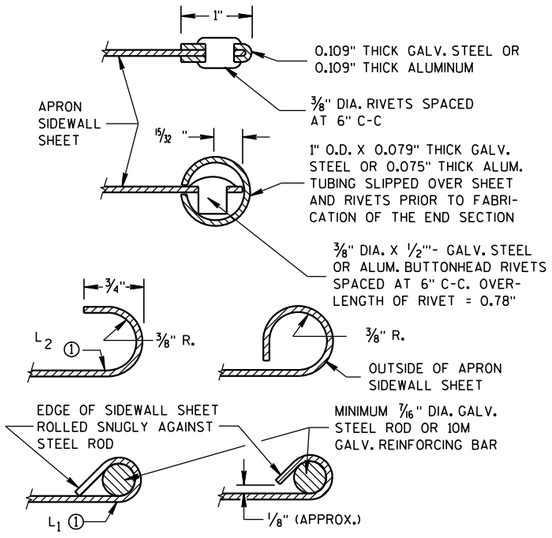


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

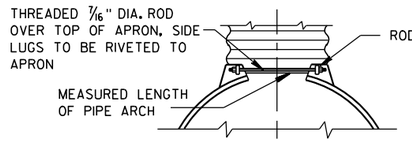
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

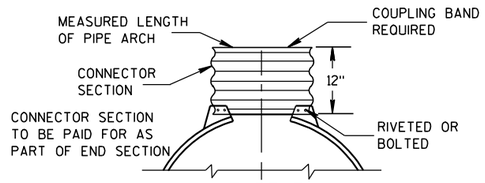
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



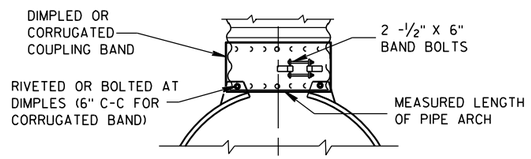
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

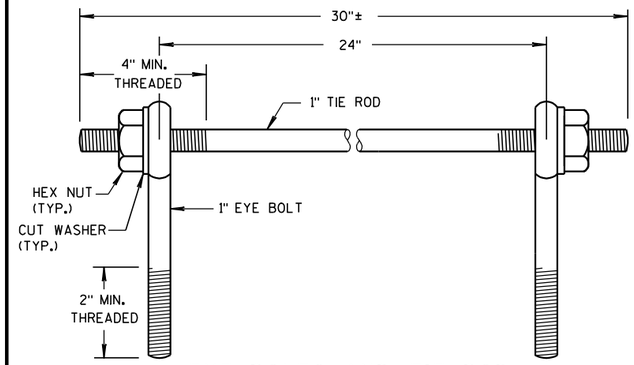
11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

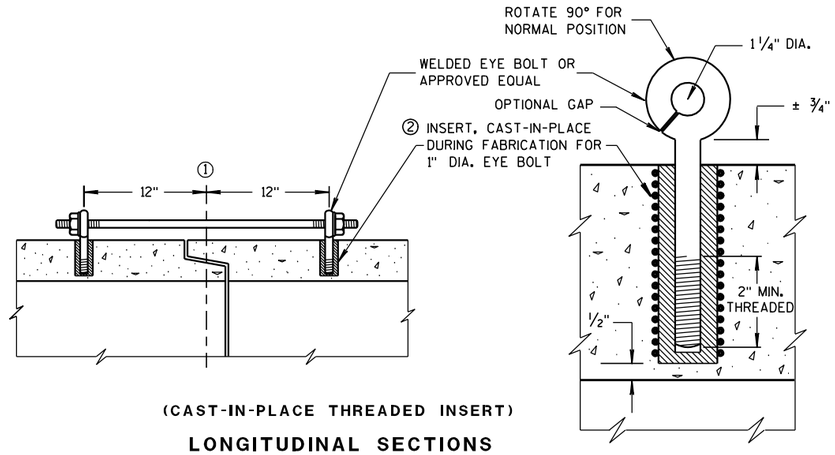
FHWA

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S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

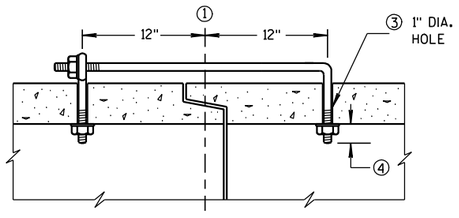
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

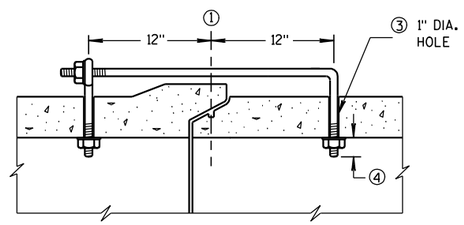
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

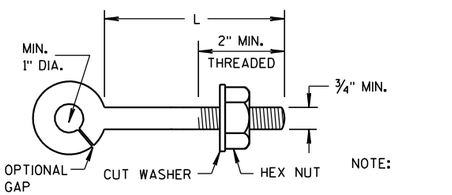


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

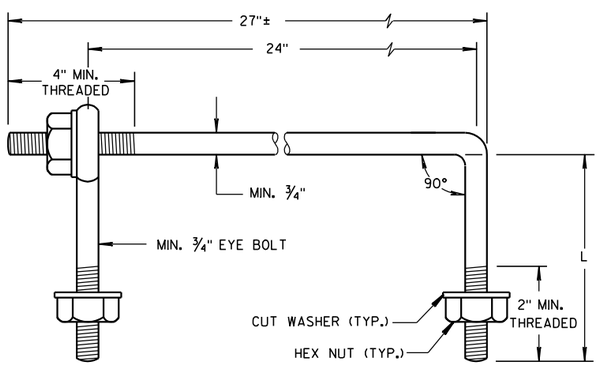
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

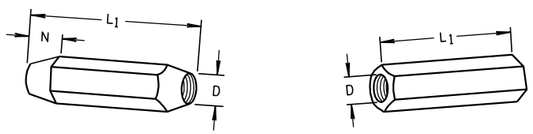
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 7/16

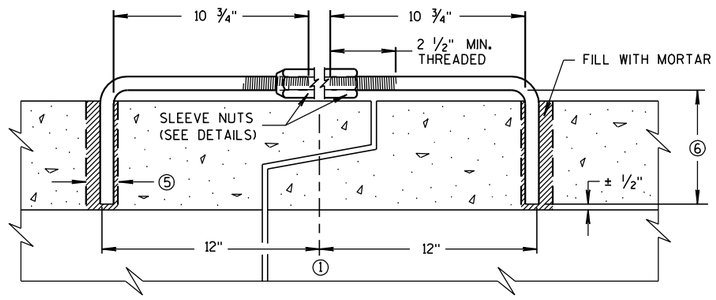
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

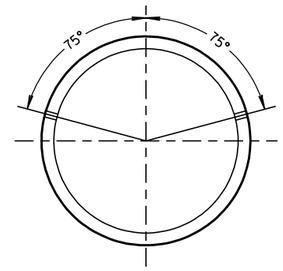
SLEEVE NUTS



LONGITUDINAL SECTION

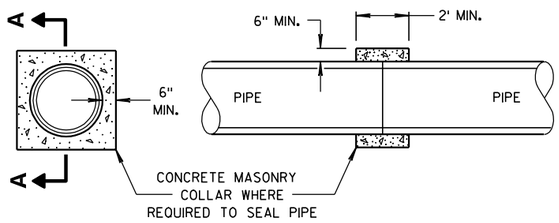
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
774 — DOCUMENT

FHWA

6

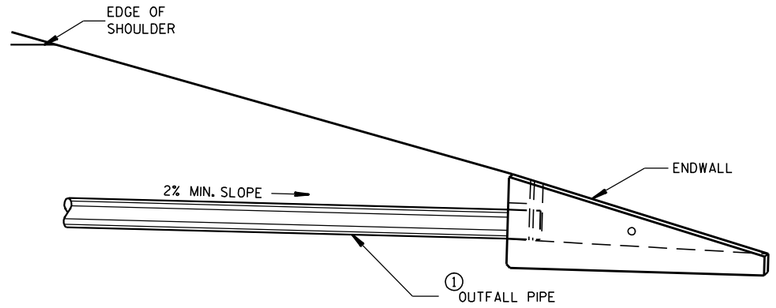
S.D.D. 8 F 4-7

6

S.D.D. 8 F 4-7

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

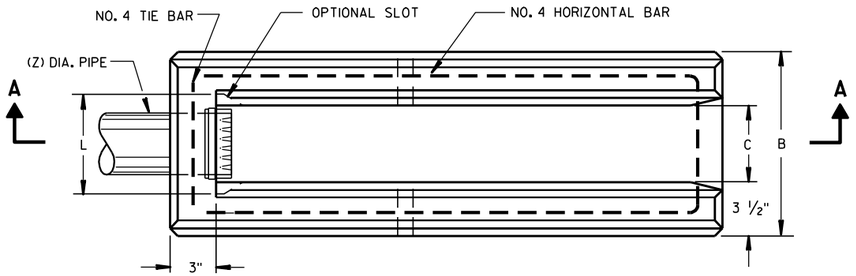
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

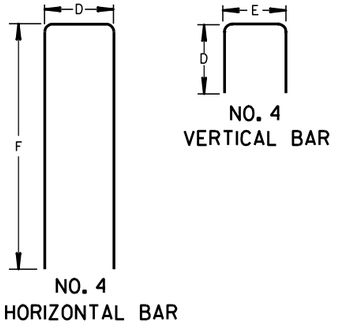
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

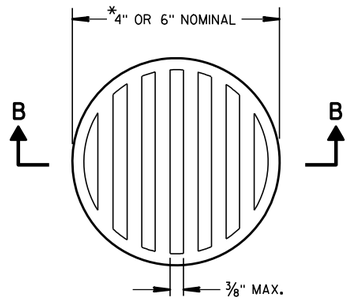
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

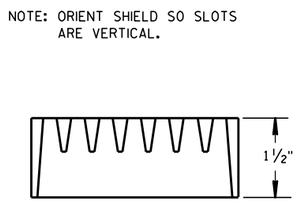


PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS

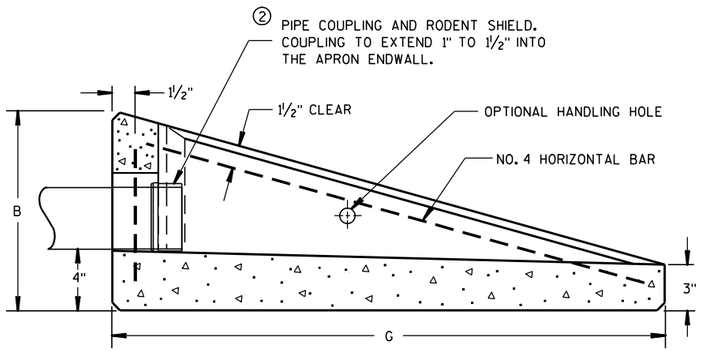




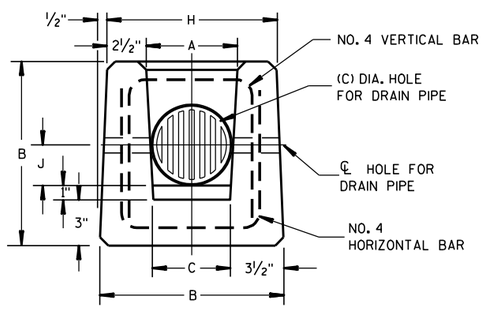
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

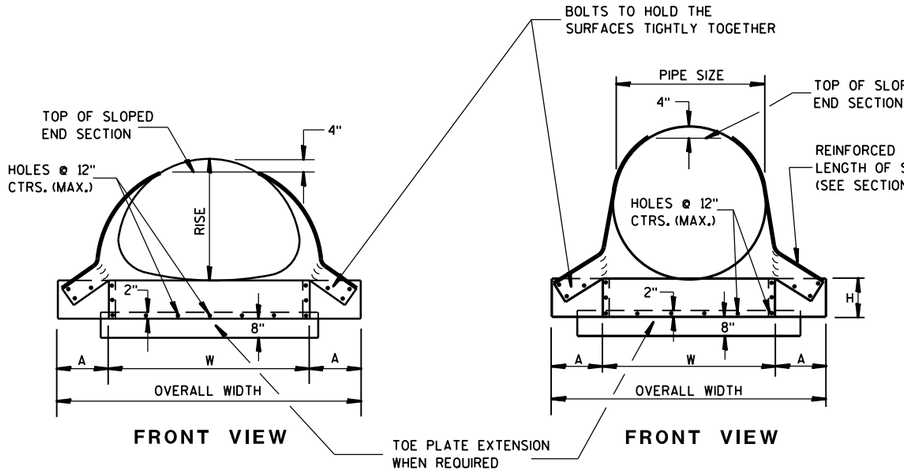
REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinehart
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

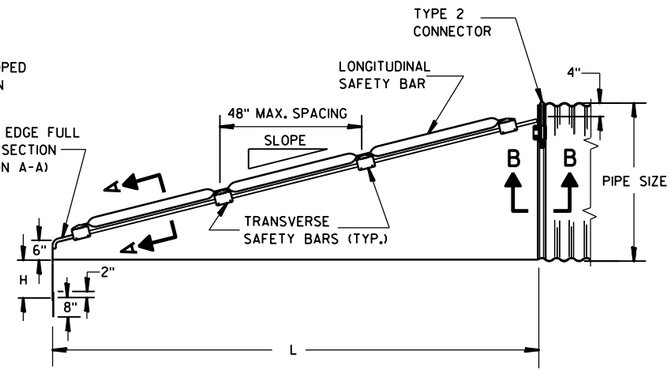
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FRONT VIEW

FRONT VIEW



SIDE VIEW
(48" SIZE ILLUSTRATED)

GENERAL NOTES

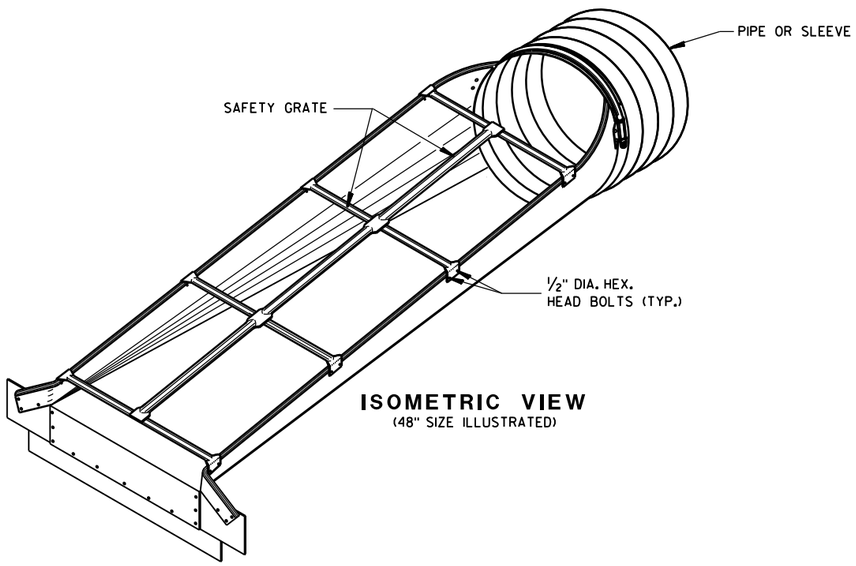
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SAFETY GRATES SHALL BE FABRICATED FROM 3-INCH DIAMETER GALVANIZED PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL. THE LONGITUDINAL BAR SHALL BE WELDED TO THE TRANSVERSE BARS WHERE THE BARS CROSS. THE NUMBER OF TRANSVERSE BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

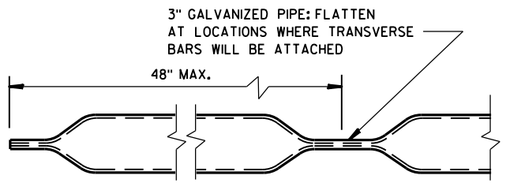
SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE FURNISHED WITH STEEL ADAPTER SLEEVES.

STEEL APRON ENDWALLS FOR CULVERT PIPE CROSS DRAINS

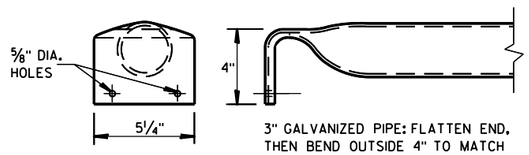
PIPE DIA. (IN.)	MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228
54	.109	12	16	12	60	92	4:1	176	6:1	264
60	.109	12	16	12	66	98	4:1	200	6:1	300



ISOMETRIC VIEW
(48" SIZE ILLUSTRATED)



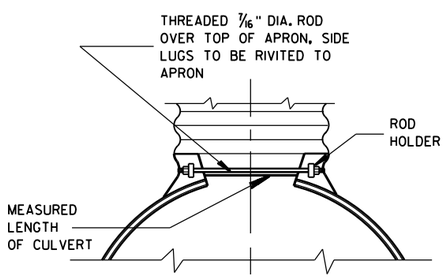
LONGITUDINAL SAFETY BAR



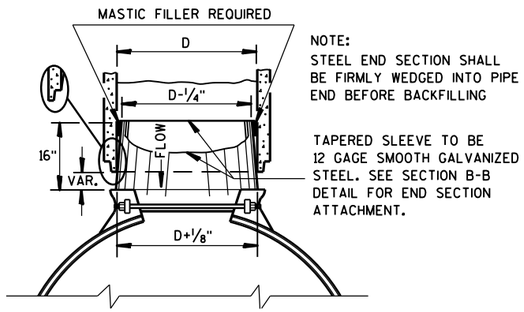
TRANSVERSE SAFETY BAR

STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED CROSS DRAINS

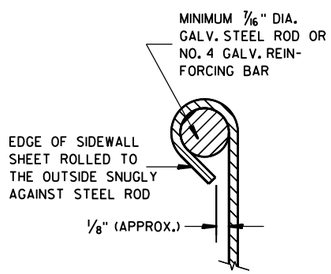
EQUIV. DIA. (IN.)	INCHES		MIN. THICK.		DIMENSIONS (Inches)				L DIMENSIONS			
	SPAN	RISE	IN.	GAGE	A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
30	35	24	.079	14	12	9	41	65	4:1	56	6:1	84
36	42	29	.109	12	12	9	48	72	4:1	76	6:1	114
42	49	33	.109	12	16	12	55	87	4:1	92	6:1	138
48	57	38	.109	12	16	12	63	95	4:1	112	6:1	168
54	64	43	.109	12	16	12	70	102	4:1	132	6:1	198
60	71	47	.109	12	16	12	77	109	4:1	148	6:1	222



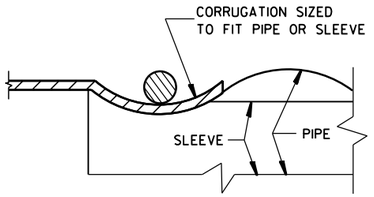
TYPE 2 CONNECTOR DETAIL



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



SECTION A-A



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

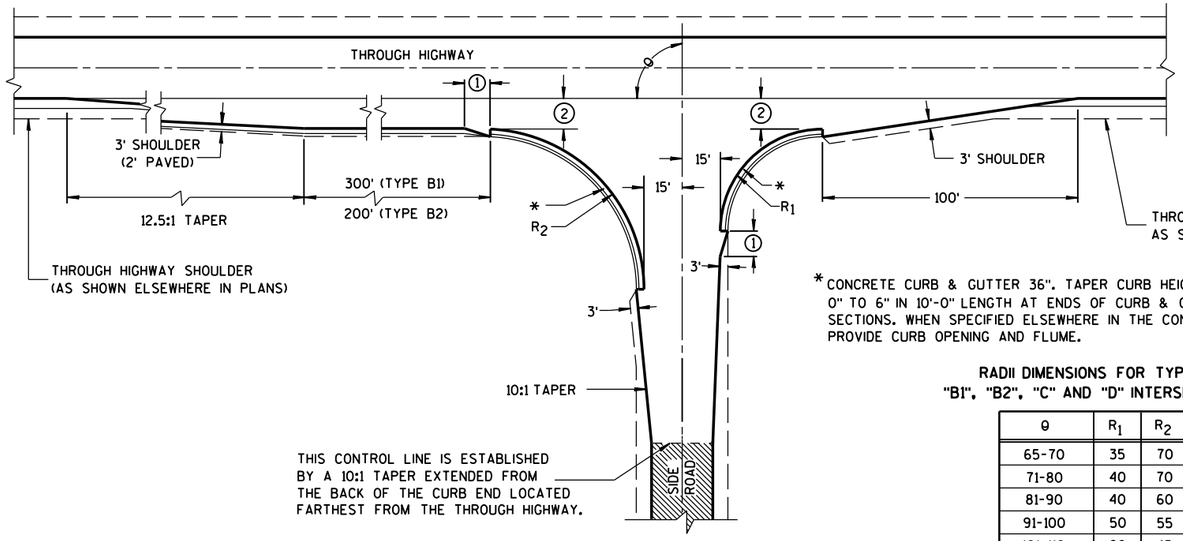
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 8 F 8-2

6

S.D.D. 8 F 8-2

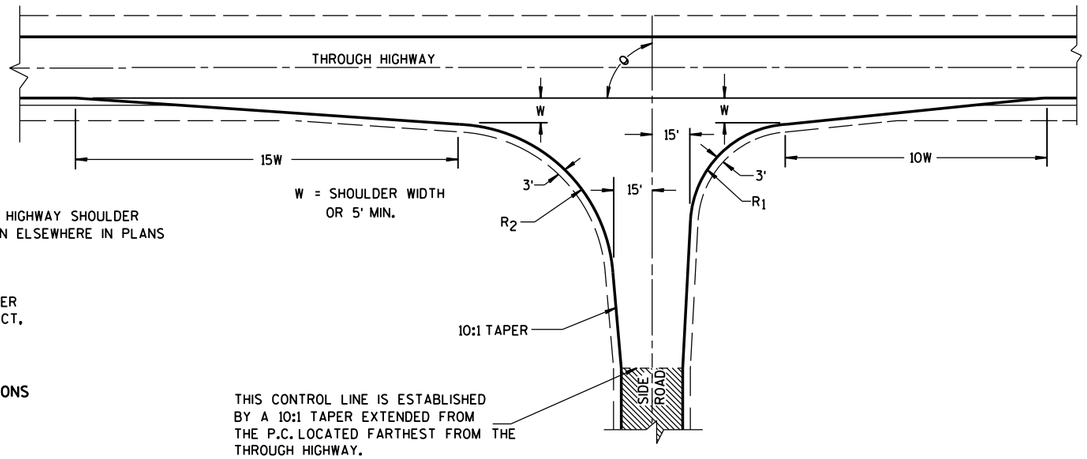


TYPE "B1" AND "B2"

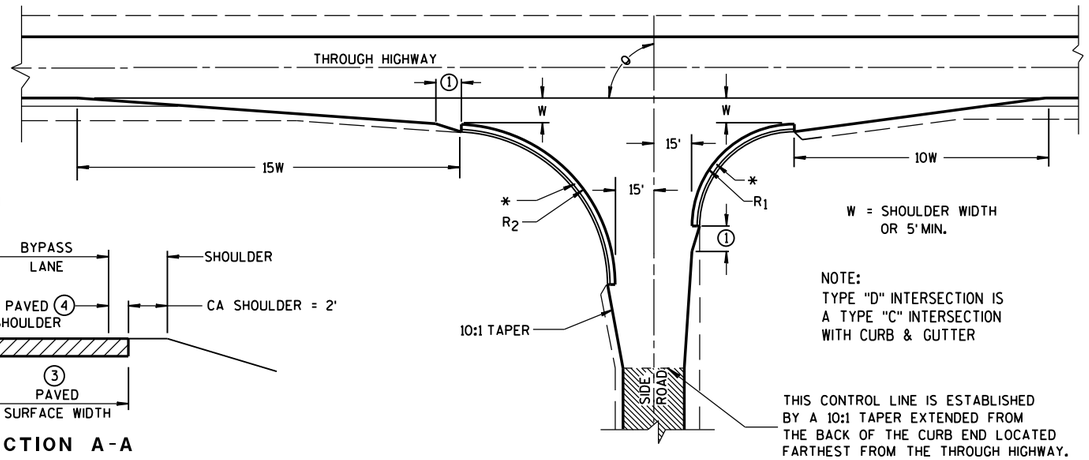
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

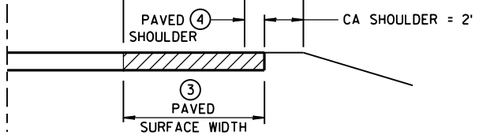
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

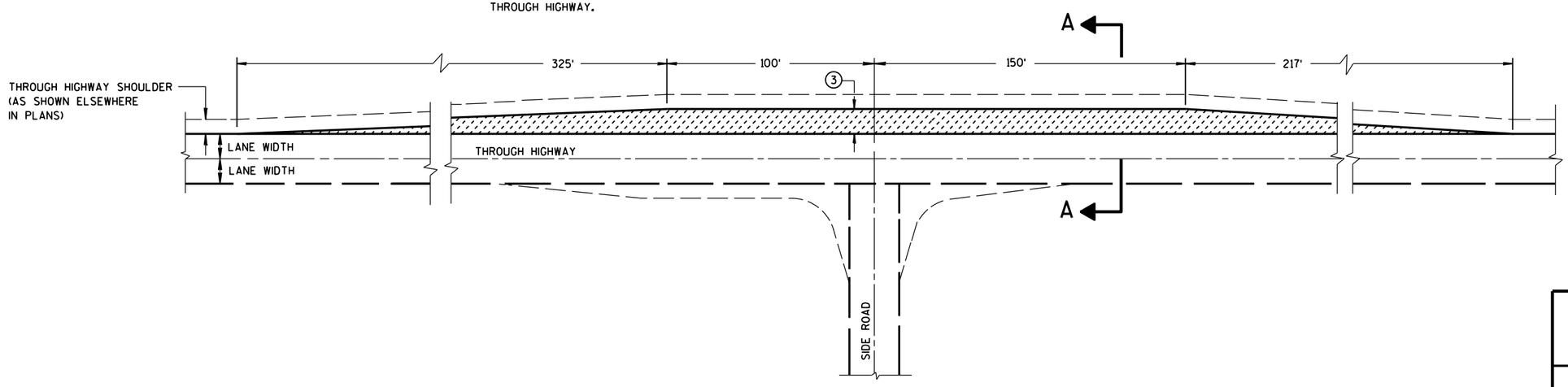
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)

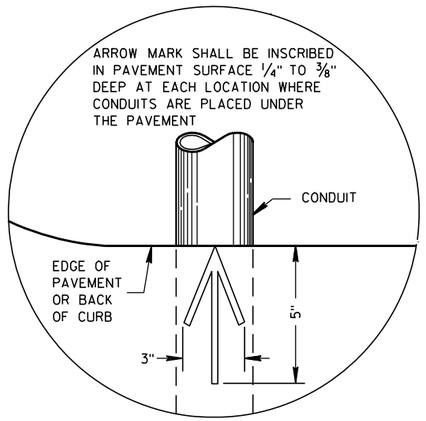


TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

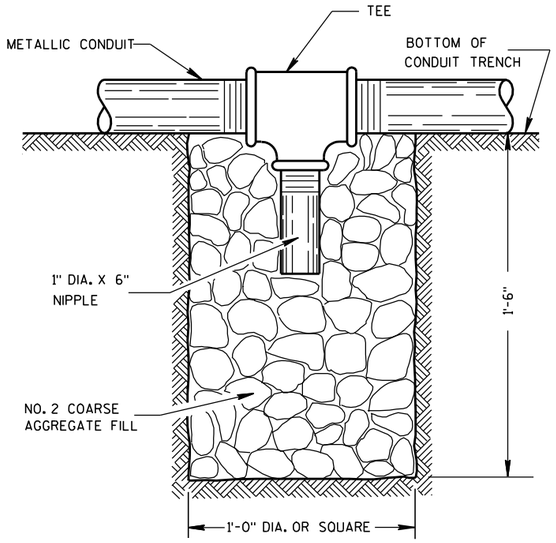
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO 777

6
S.D.D. 9 A 1-13a



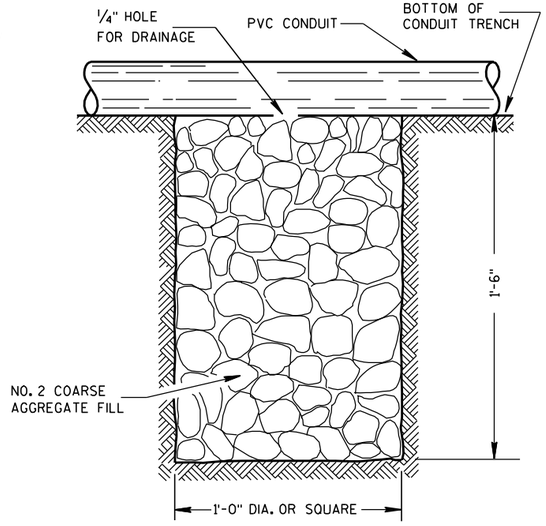
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

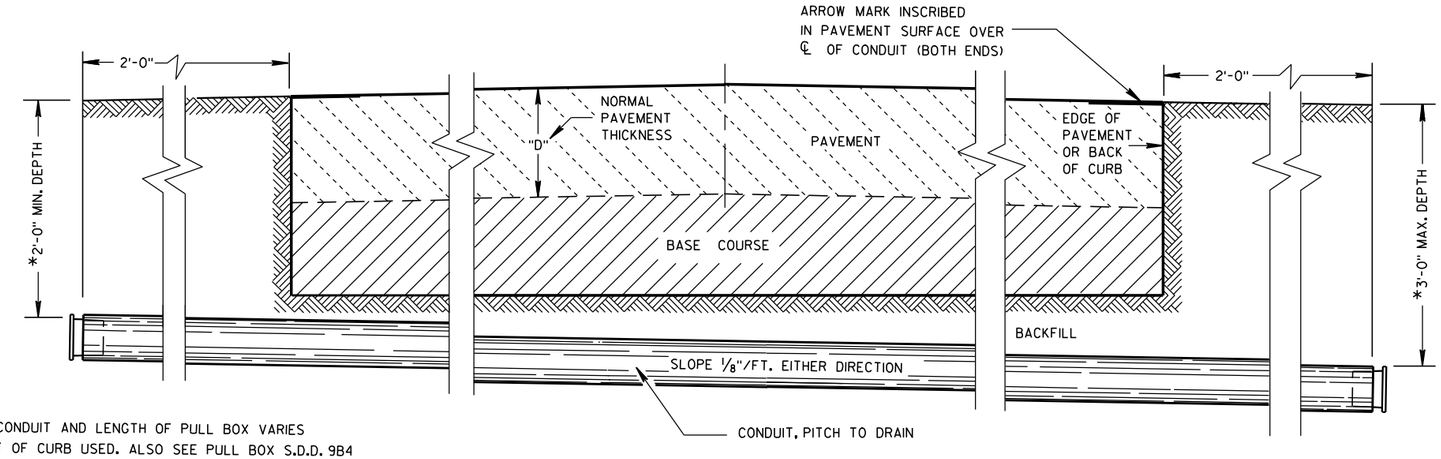
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/23/03 DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 778 HWYS

FHWA

6

S.D.D. 9 B 2-7

6

S.D.D. 9 B 2-7

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE. THE MECHANICAL CONNECTION (INSIDE AND OUTSIDE) TO THE PULL BOX, SHALL BE TOTALLY AND PERMANENTLY SEALED WITH A SILICONE OR RUBBERIZED CAULKING COMPOUND AS APPROVED BY THE ENGINEER.

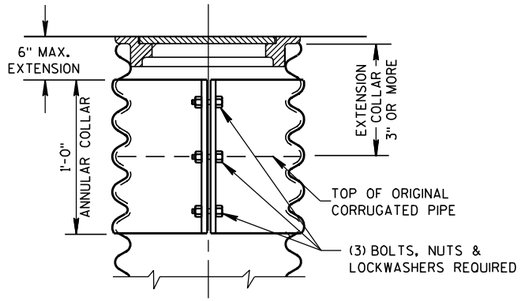
GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

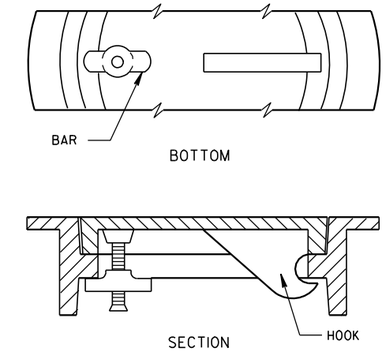
S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

IF PULL BOX EQUIPMENT GROUNDING IS REQUIRED USING AN EQUIPMENT GROUNDING ELECTRODE IN EACH PULL BOX, THE EQUIPMENT GROUNDING ELECTRODE SHALL BE 5/8" X 8'-0", COPPERCLAD AND BE EXOTHERMICALLY WELDED TO A #4 AWG, COPPER, STRANDED WIRE (BARE OR GREEN INSULATED). THE #4 AWG WIRE SHALL BE 4 FEET IN LENGTH, NEATLY COILED, TAPED AND AVAILABLE FOR USE WHEN REQUIRED.

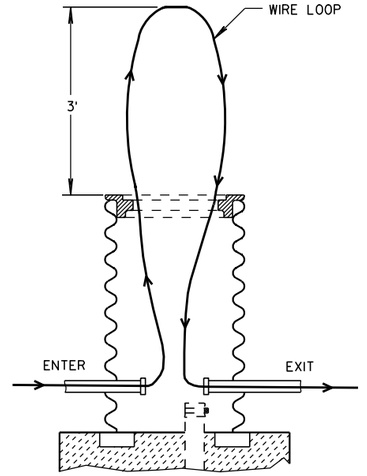


CORRUGATED PIPE EXTENDER

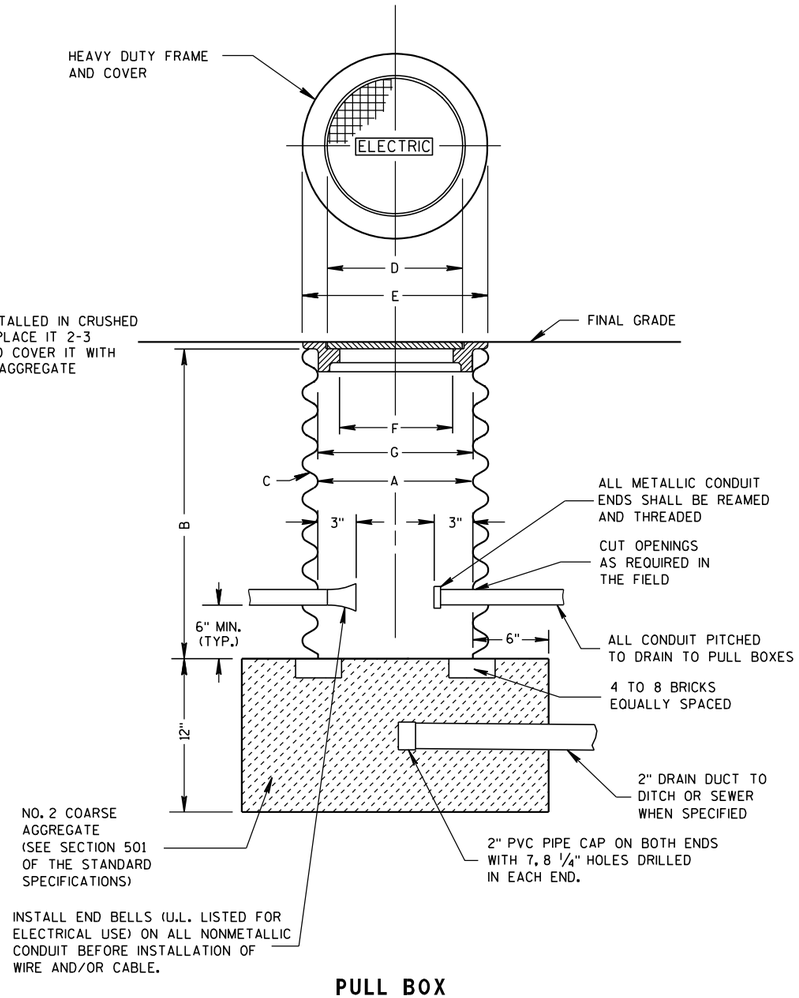


ALTERNATE COVER (LOCKING)

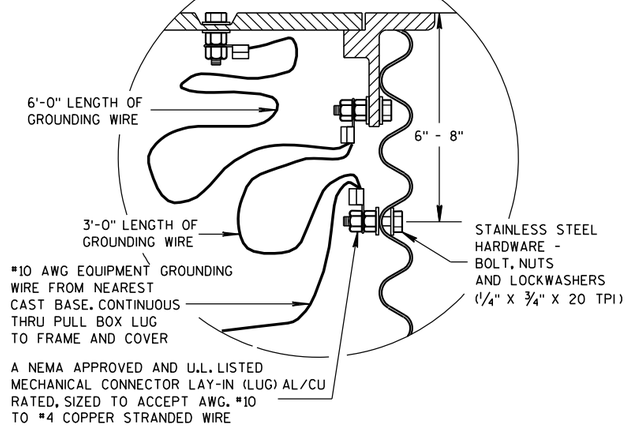
TIGHTENING BAR TYPE



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



PULL BOX

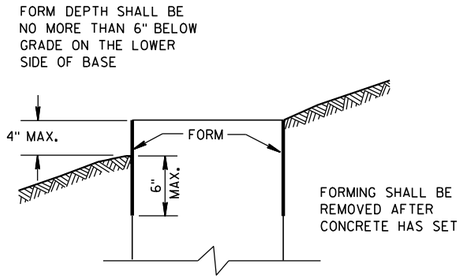


EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/27/06 DATE
/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 779 HWYS
FHWA



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

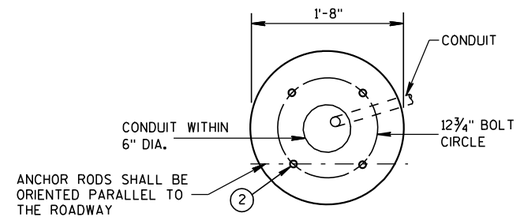
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

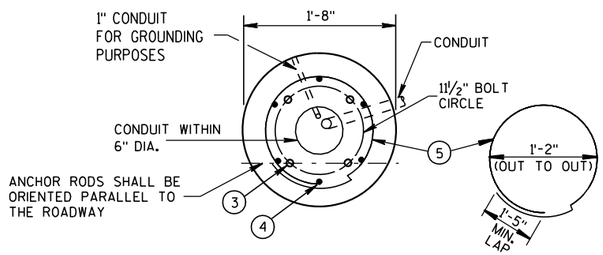
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

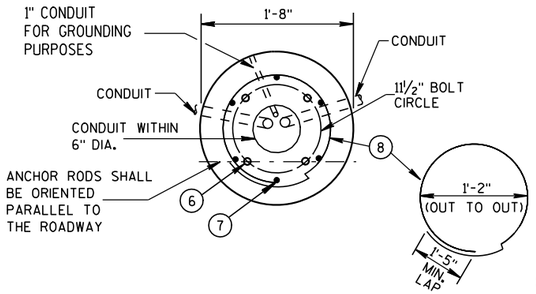
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

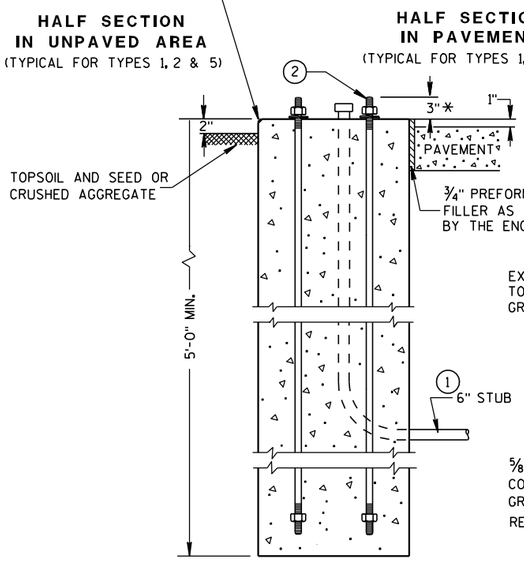






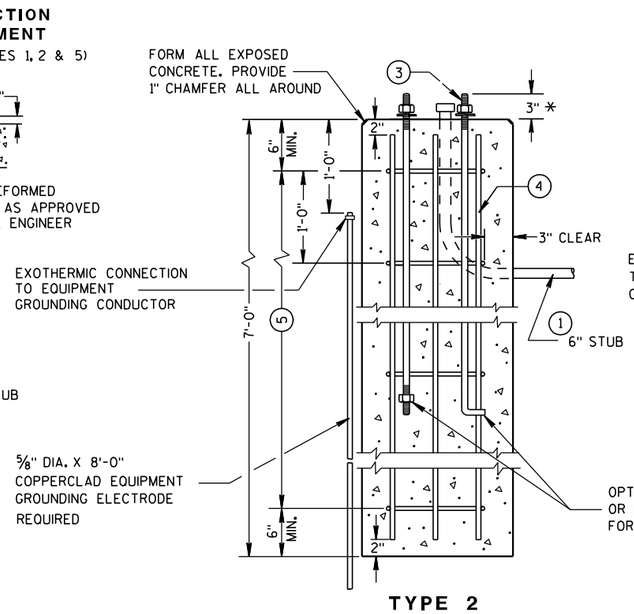
FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2 & 5)

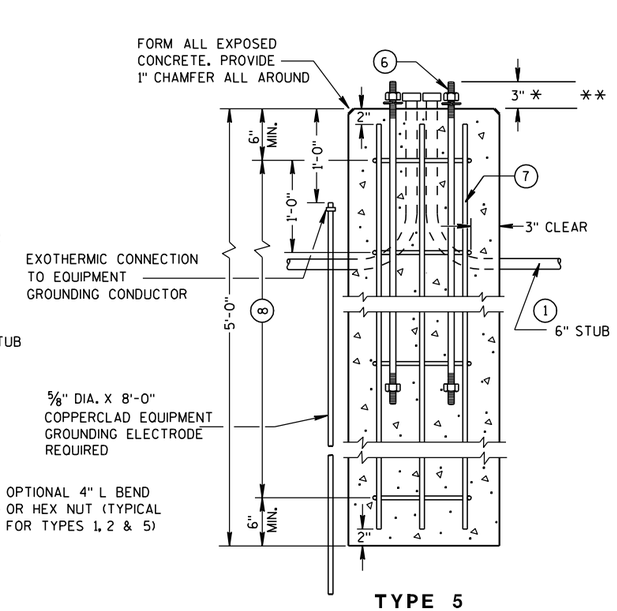


HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2 & 5)

TYPE 1



TYPE 2



TYPE 5

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/3/10 — DATE
/S/ Joanna L. Rush — STATE ELECTRICAL ENGI 780 — HWYS
FHWA

6
S.D.D. 9 C 2-6

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (92,000 YIELD) HEAVY HEX NUT AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

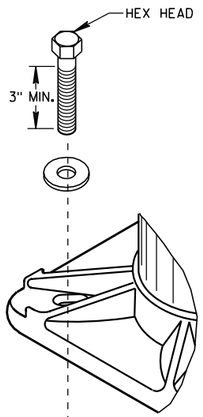
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

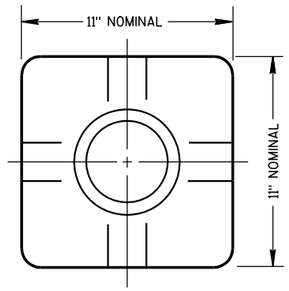
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

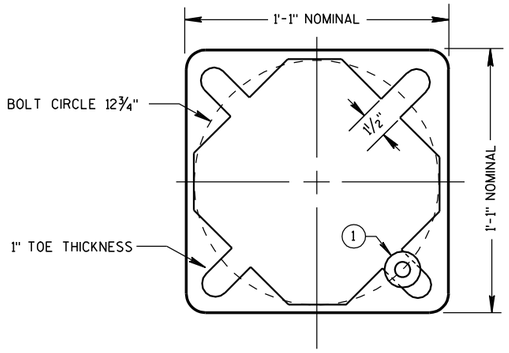
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1½", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

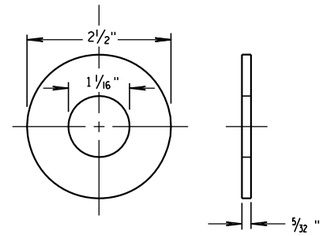




TOP VIEW
(PEDESTAL BASE)

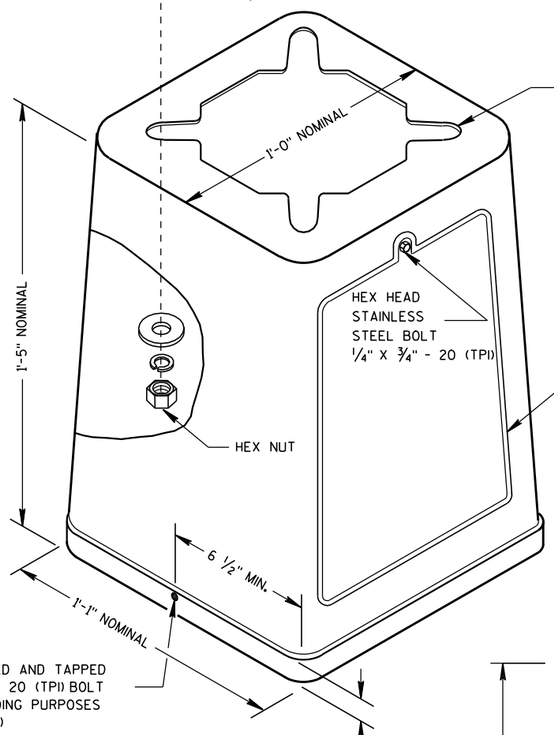


BOTTOM VIEW
(PEDESTAL BASE)

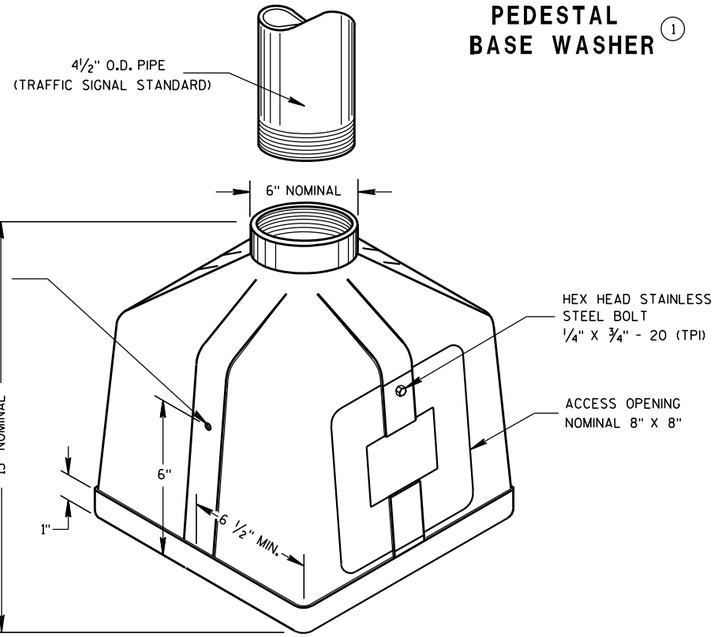


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

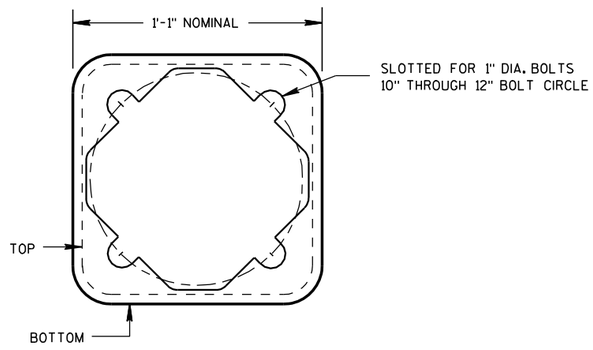


ISOMETRIC VIEW

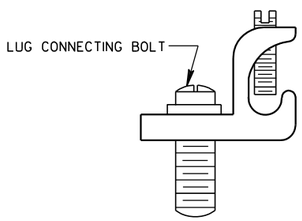


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

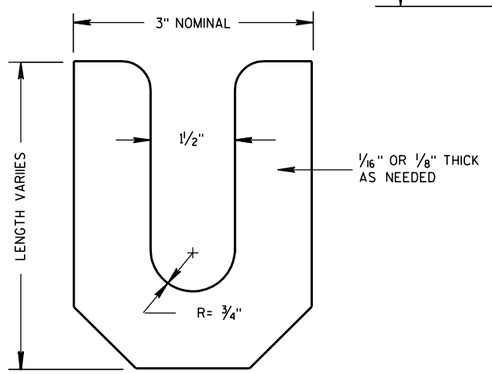


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/27/09 — DATE
/S/ Joanna L. Rich — STATE ELECTRICAL ENGI
781 — HWYS
FHWA

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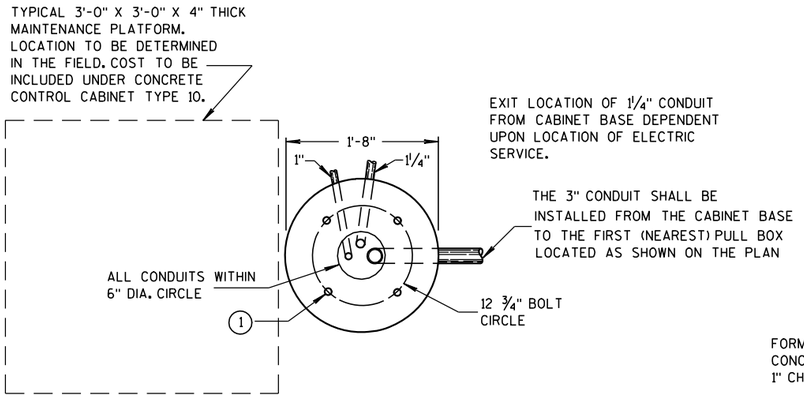
S.D.D. 9 C 3-3

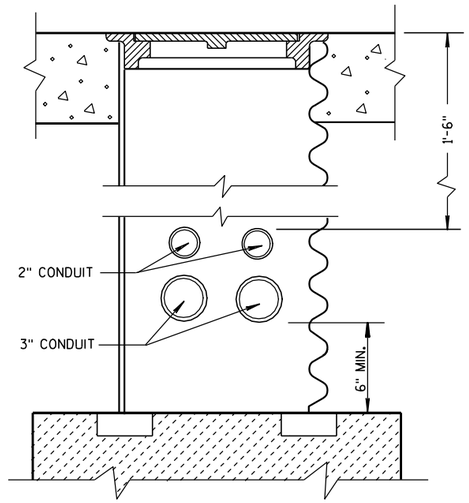
6

S.D.D. 9 C 3-3

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65 *

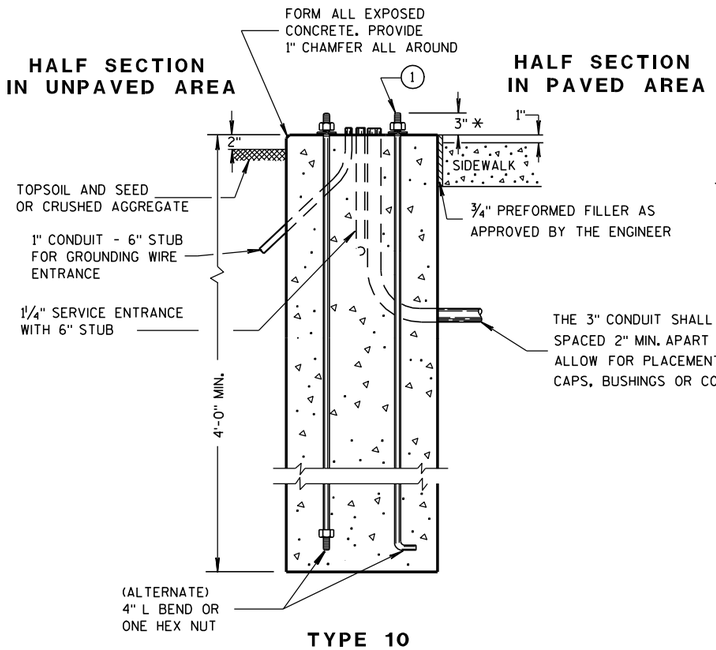
* INCLUDES MAINTENANCE PLATFORM.



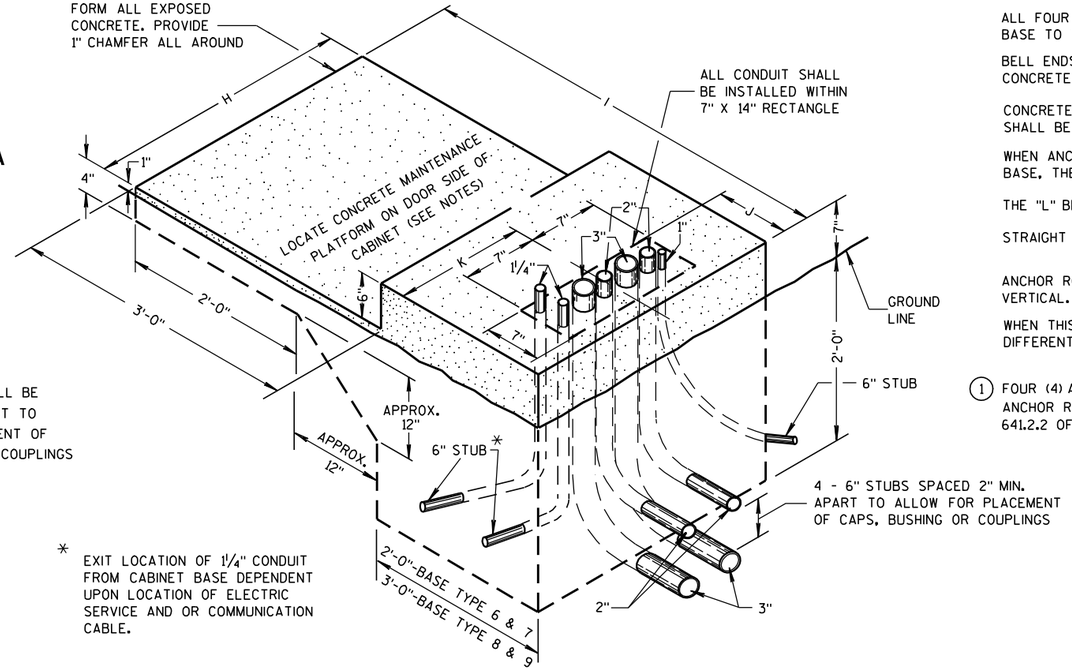


CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)



TYPE 10



TYPE 6,7,8 AND 9 (ISOMETRIC VIEW)

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

* EXIT LOCATION OF 1¼" CONDUIT FROM CABINET BASE DEPENDENT UPON LOCATION OF ELECTRIC SERVICE AND OR COMMUNICATION CABLE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WHEN THIS DRAWING IS USED FOR STREET LIGHTING CABINET BASES, CONDUIT MAY BE DIFFERENT AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

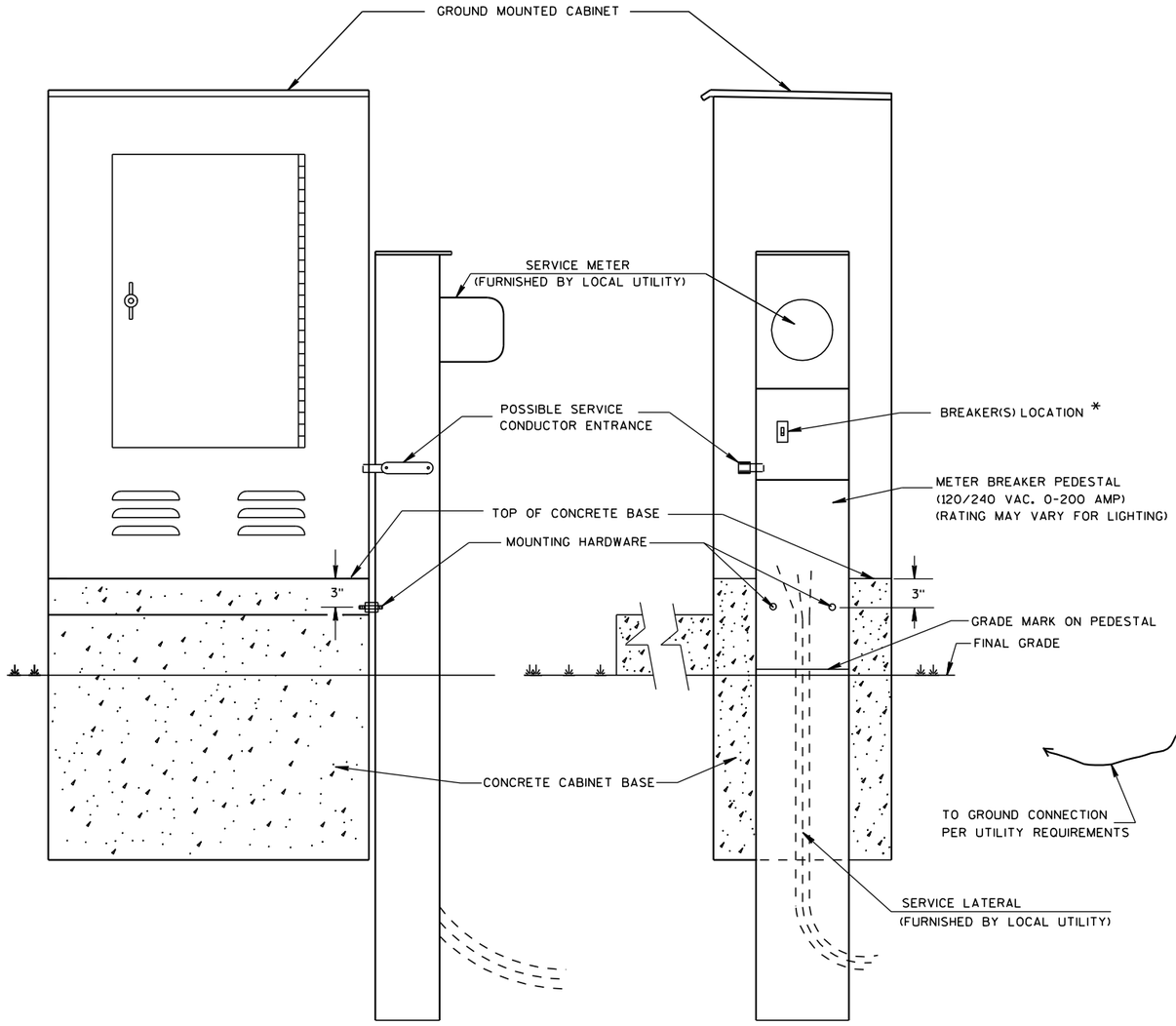
CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/3/10 DATE
/S/ Joanna L. [illegible]
STATE ELECTRICAL ENGI
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S.D.D. 9 C 5-7



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

6

S.D.D. 9 D 1-4

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S.D.D. 9 D 1-4

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

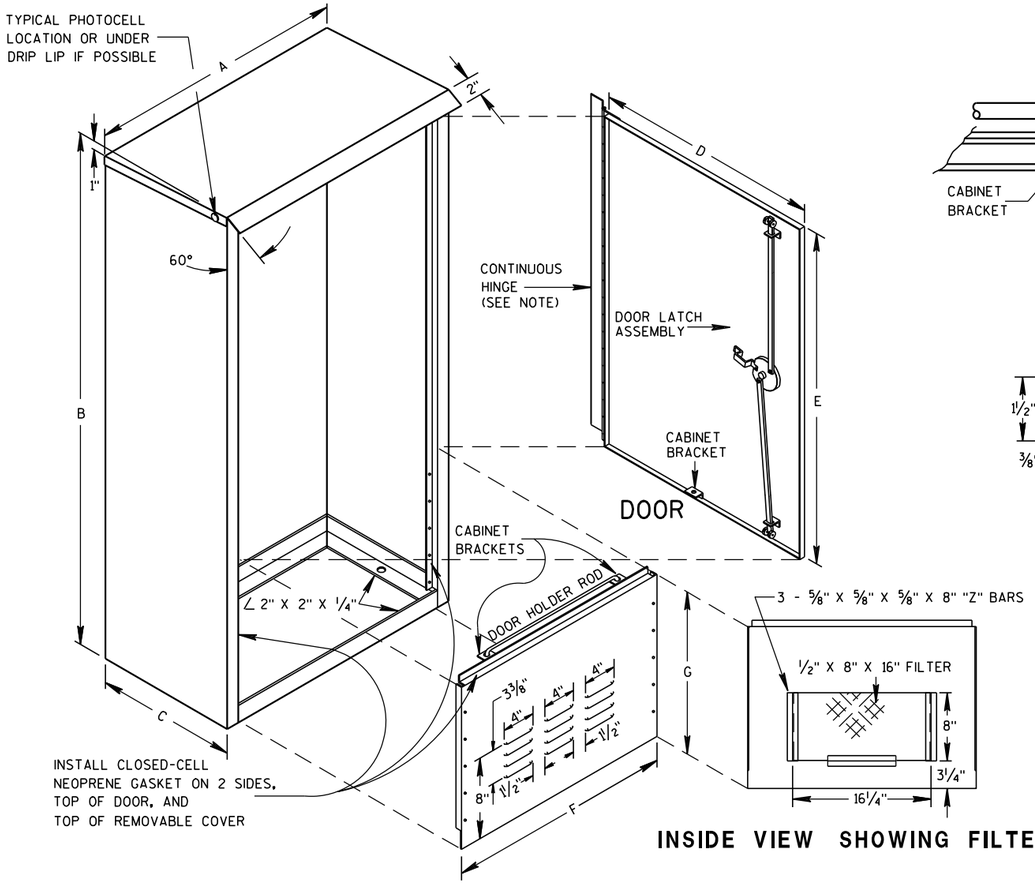
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10/27/09 DATE

/S/ Joanna L. Bush
STATE ELECTRICAL ENGI 783

HWYS

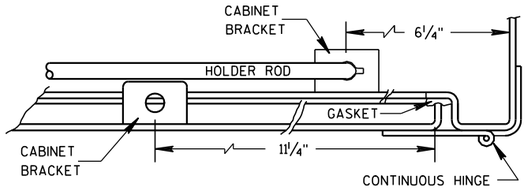
FHWA



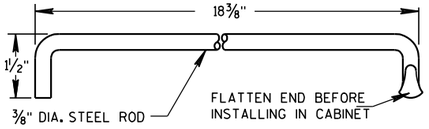
DOOR

REMOVABLE COVER

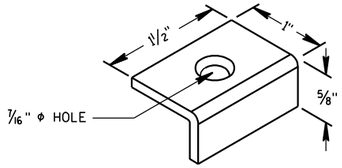
INSIDE VIEW SHOWING FILTER



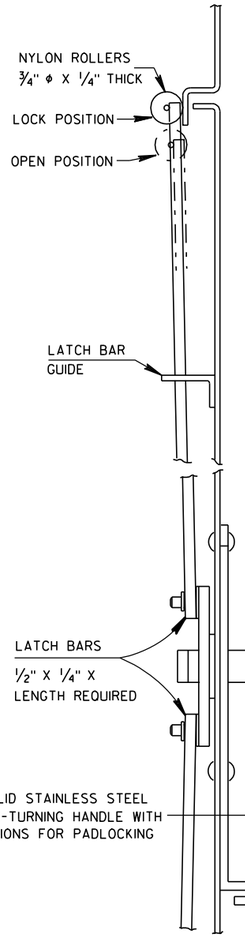
HINGE & DOOR HOLDER



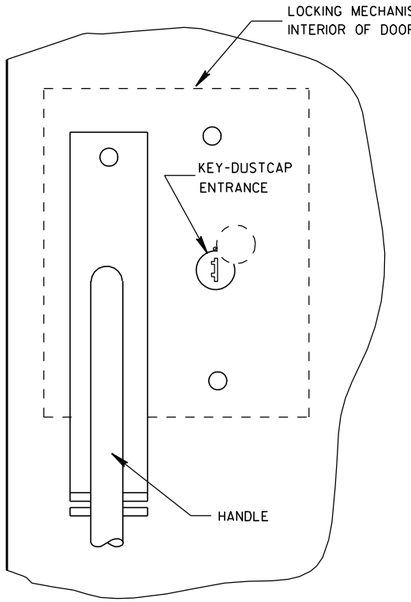
HOLDER ROD



CABINET BRACKET

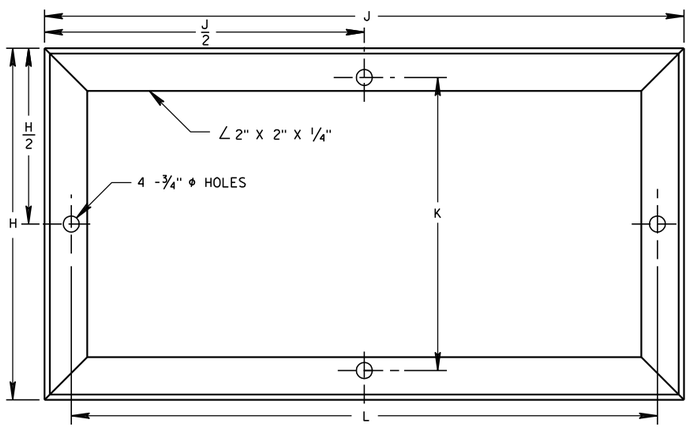


SIDE VIEW



FRONT VIEW

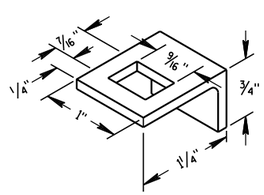
LATCH ASSEMBLY



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2



LATCH BAR GUIDE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

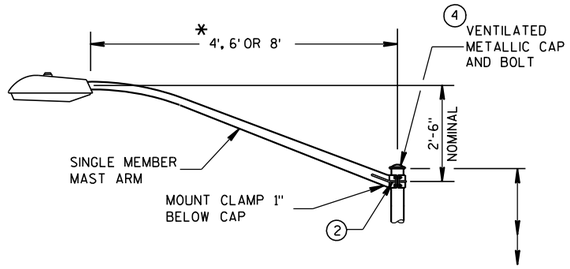
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.

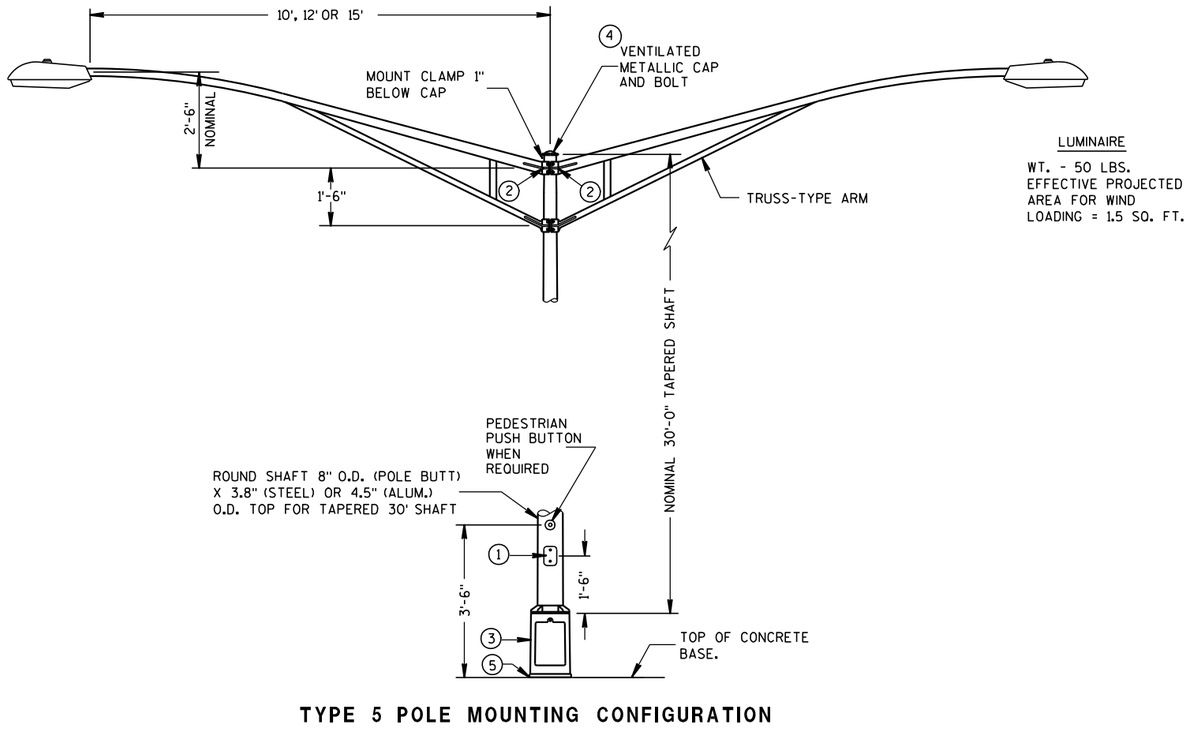
SIGNAL OR LIGHTING CONTROL CABINET

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DEPARTMENT OF TRANSPORTATION

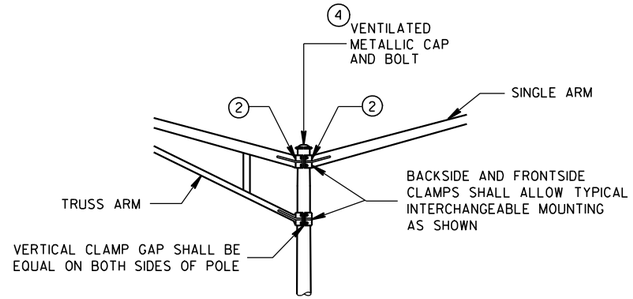
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10/21/96 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI
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*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

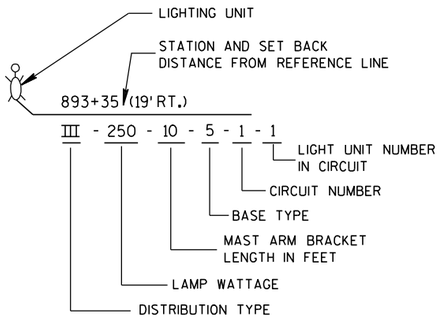
WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

1. 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
2. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.
3. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
4. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
5. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

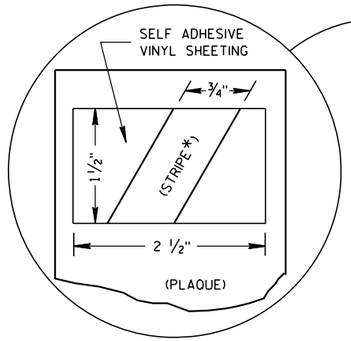
POLE MONTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

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DEPARTMENT OF TRANSPORTATION

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S.D.D. 9 E 1-11d



LIGHTING UNIT CODE
(TYPICAL)



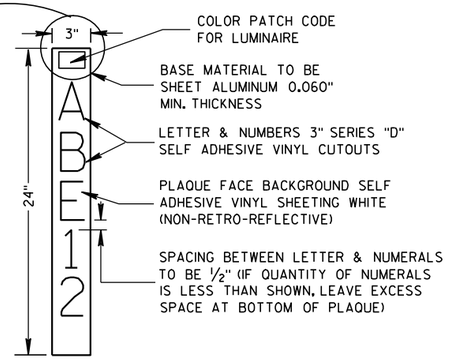
COLOR PATCH CODE FOR LUMINAIRES

(HIGH PRESSURE SODIUM)

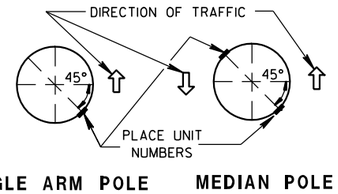
1000 WATT - NO PATCH
400 WATT - ORANGE
310 WATT - BLUE
250 WATT - ORANGE W/WHITE STRIPE*
200 WATT - RED
150 WATT - GREEN
100 WATT - BROWN

(MERCURY VAPOR)

400 WATT - (NO PATCH)
250 WATT - YELLOW



IDENTIFICATION PLAQUE



SINGLE ARM POLE MEDIAN POLE



FASTEN TOP, CENTER AND BOTTOM OF PLAQUE WITH 3 ALUMINUM POP RIVETS (ALUM. POLES) OR STAINLESS STEEL POP RIVETS (STEEL POLES)

NOTES:

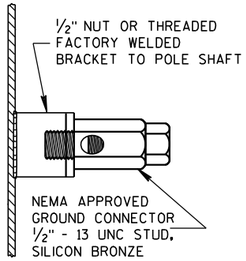
1) PLACE BOTTOM OF UNIT NUMBER PLAQUE 5'-0" ABOVE ELEVATION OF ADJACENT CURB OR SHOULDER.

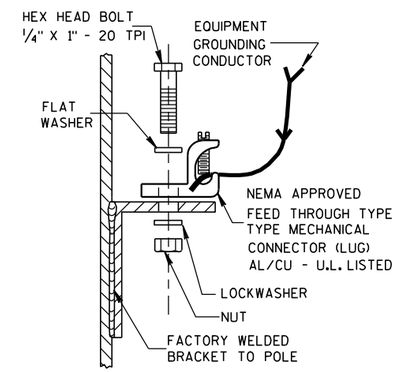
2) UNIT NUMBERS: ONE REQUIRED FOR SINGLE ARM POLES TWO REQUIRED FOR MEDIAN MOUNT POLES.

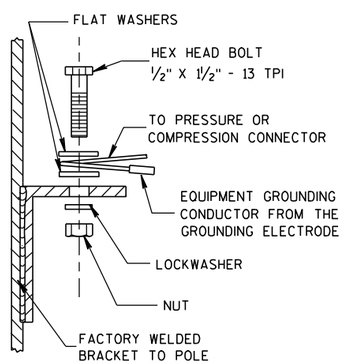
LIGHTING UNIT IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENT

(TYPICAL ALL LIGHTING UNITS)

FURNISH PLAQUE WHEN CALLED FOR BY SPECIAL PROVISIONS

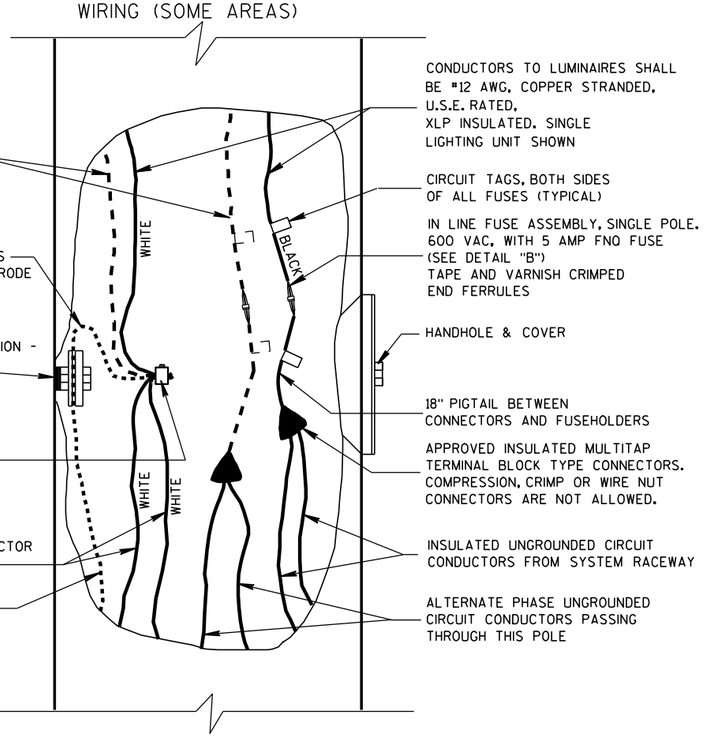




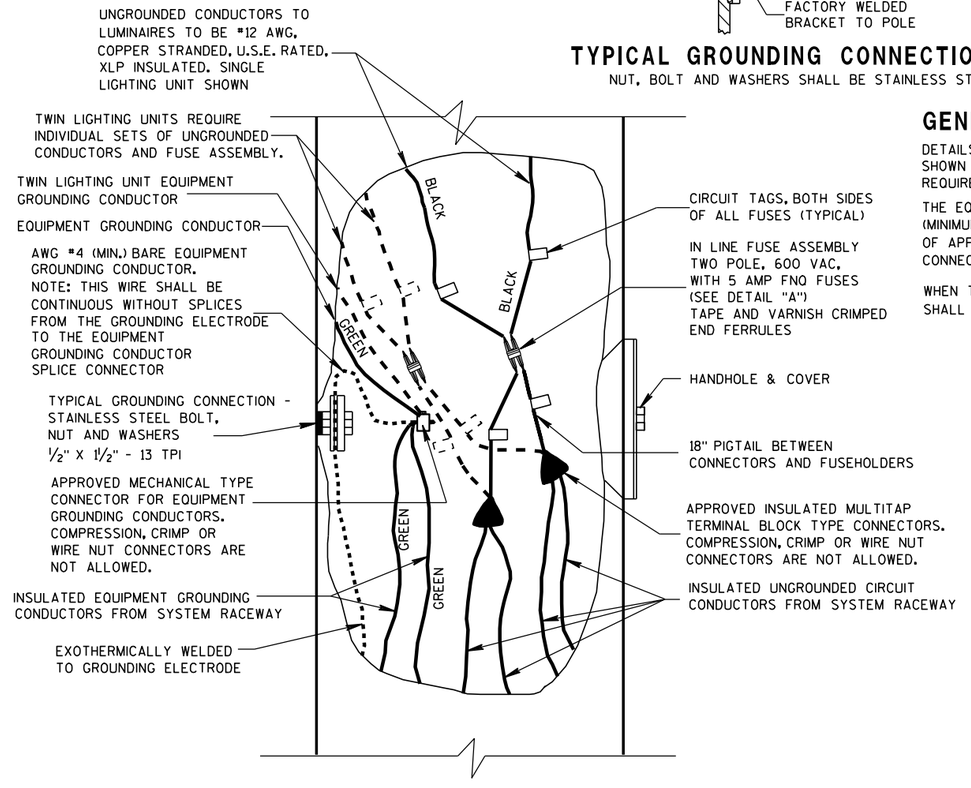


TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



2 WIRE - 120, 240 OR 480 VAC TO GROUND



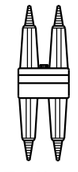
2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

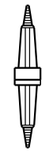
THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.



DETAIL "A"

BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



DETAIL "B"

BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT

FREEWAY LIGHTING UNIT POLE WIRING

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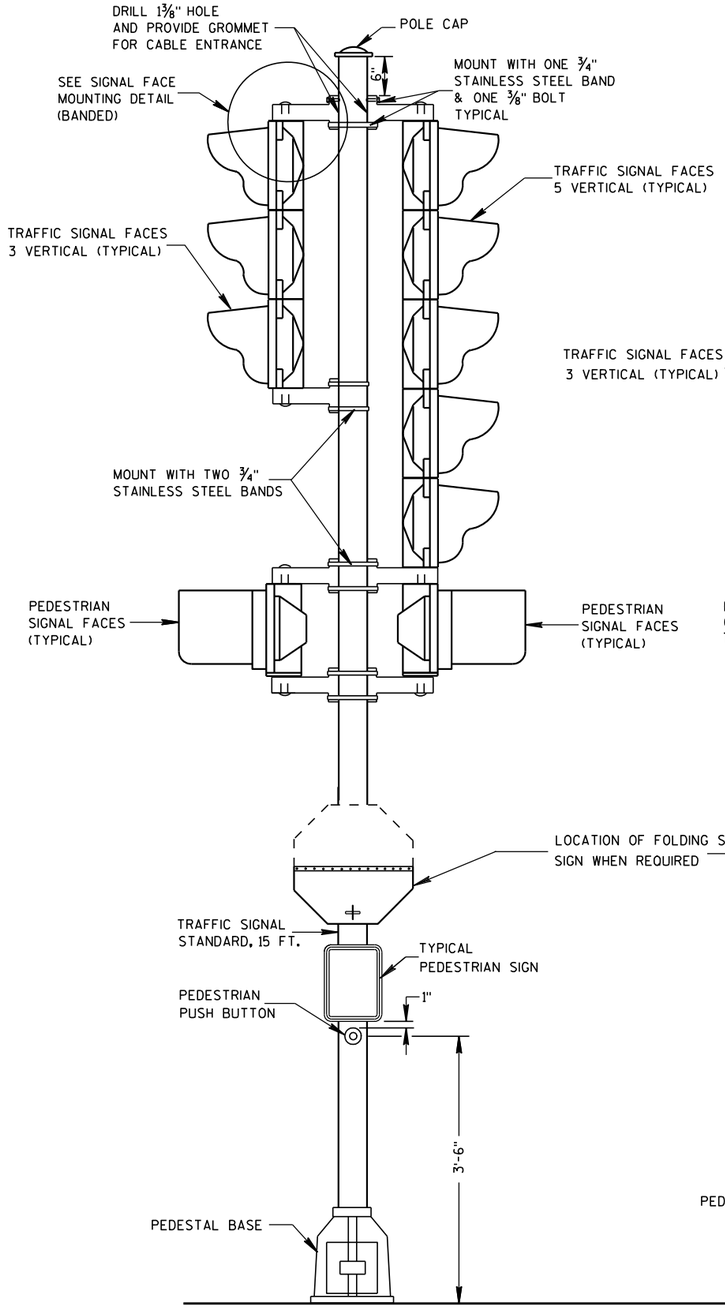
APPROVED

3/2/2011
DATE

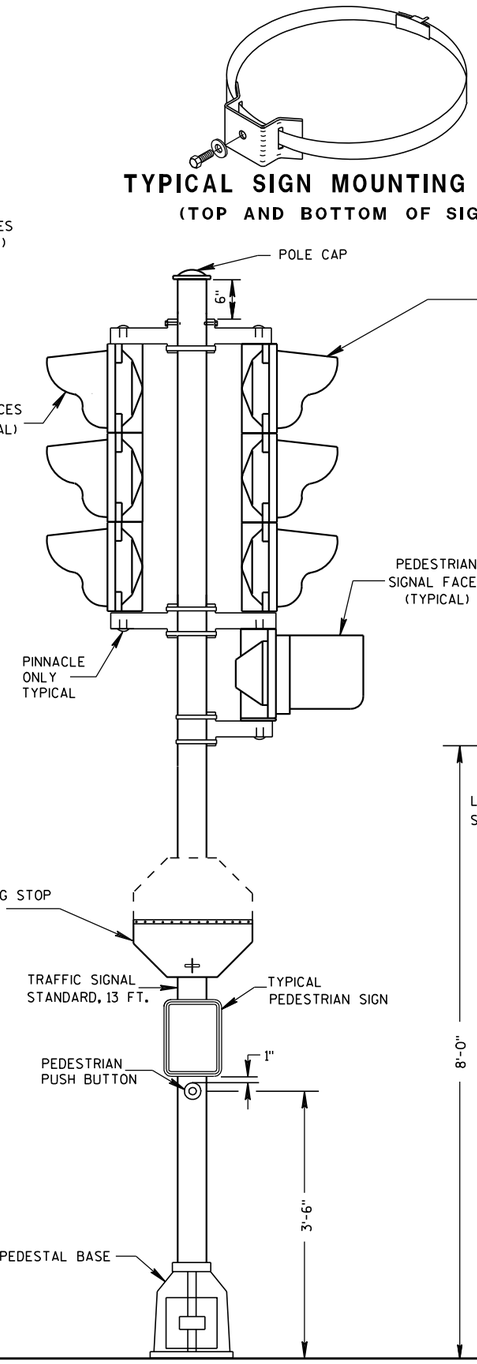
/S/ Thomas J. Gerrios
STATE ELECTRICAL ENGI

FHWA

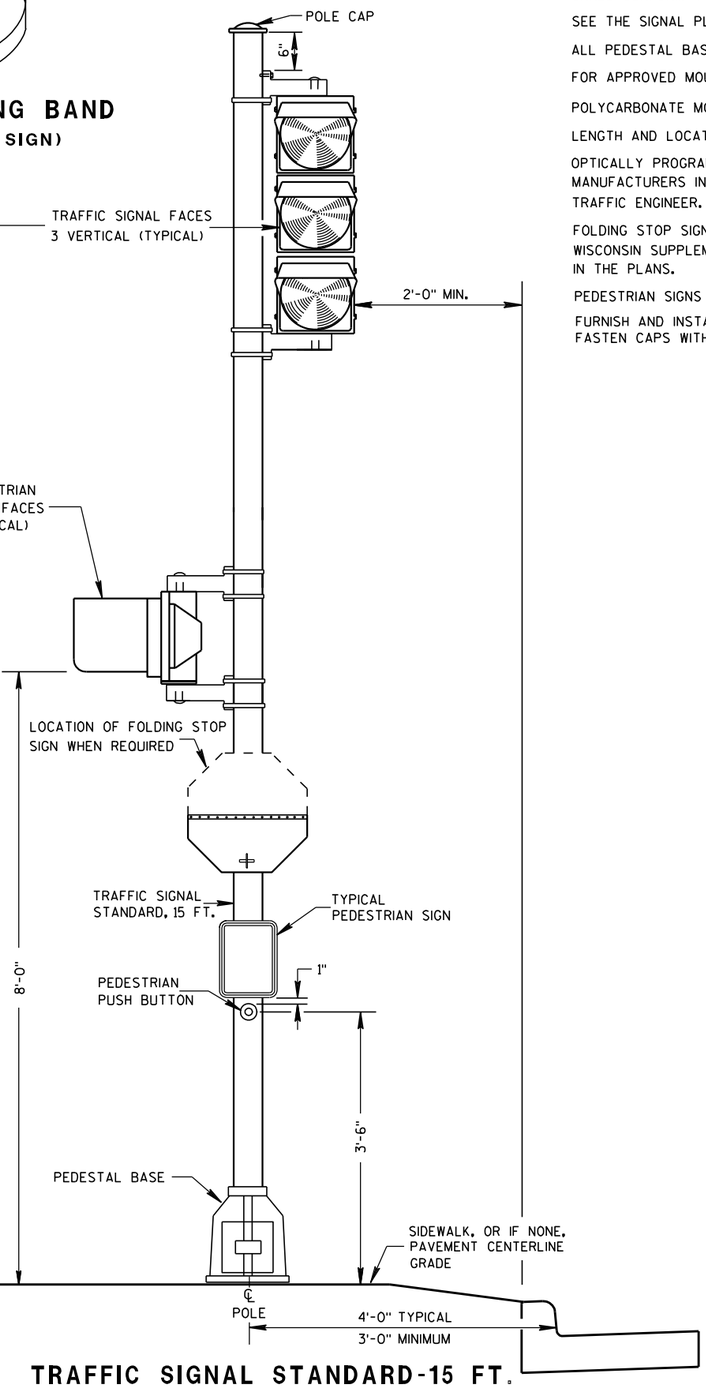
6
S.D.D. 9 E 2-3



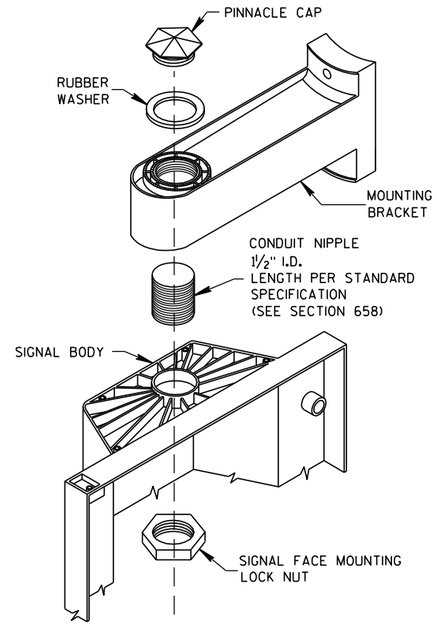
TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)



SIGNAL FACE MOUNTING DETAIL
(BANDED)

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE DISTRICT TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) 1/4" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/11/10
DATE

/S/ John Corbin
STATE ELECTRICAL ENGI

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HWYS

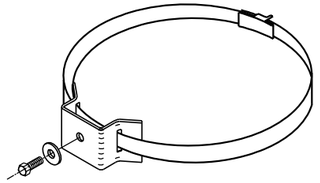
FHWA

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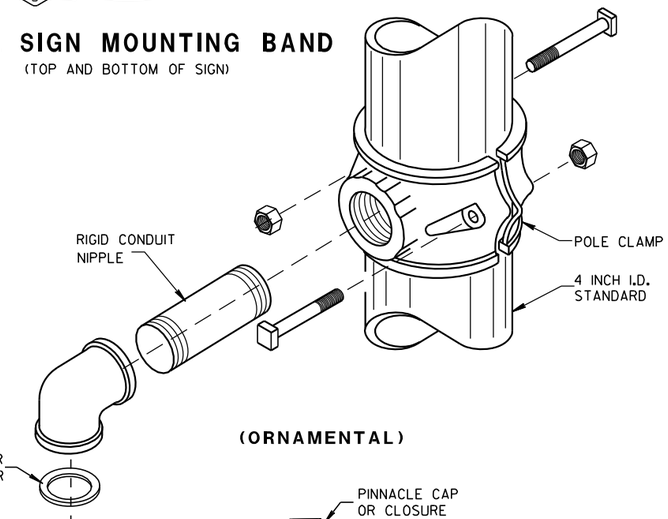
S.D.D. 9 E 6-4

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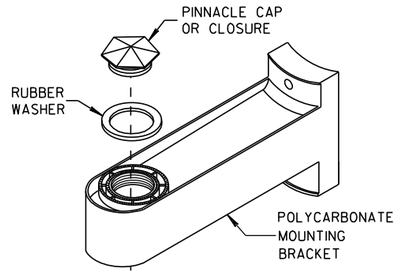
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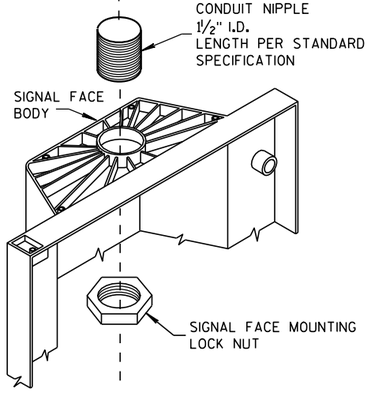
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



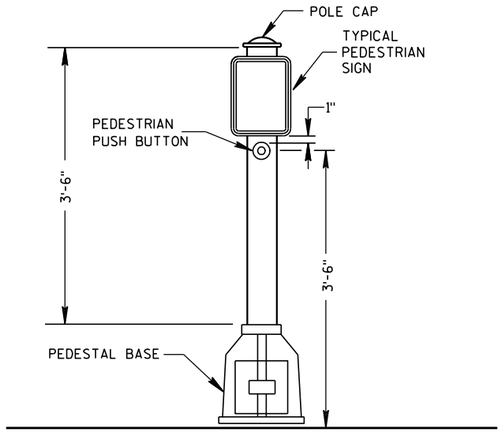
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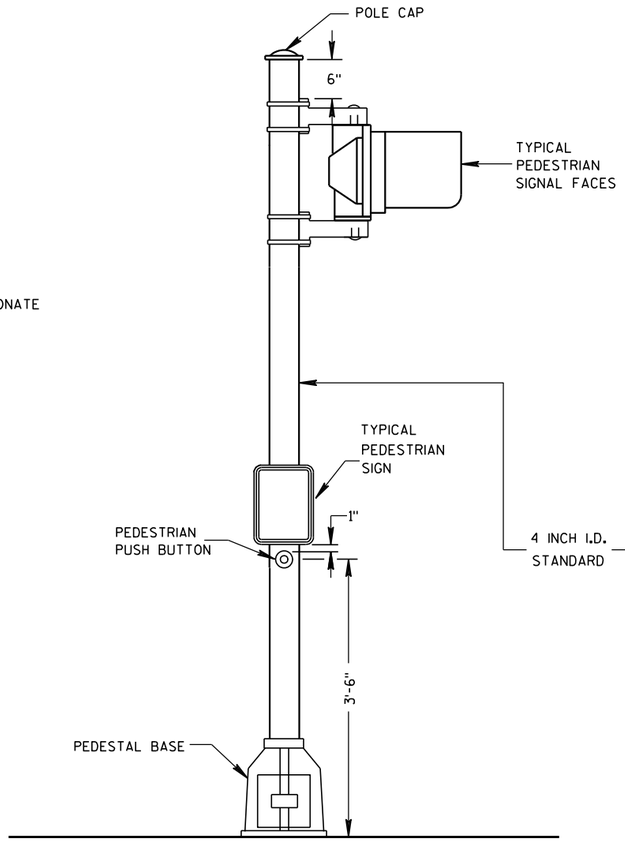
(BANDED)



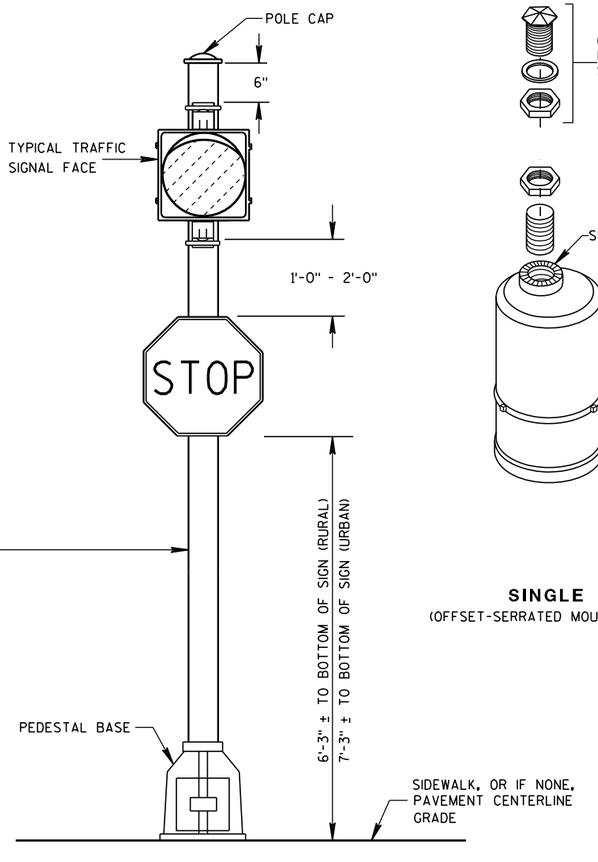
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

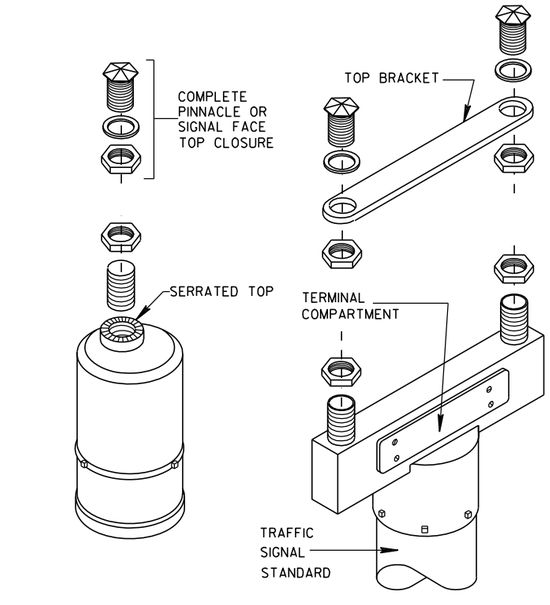
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

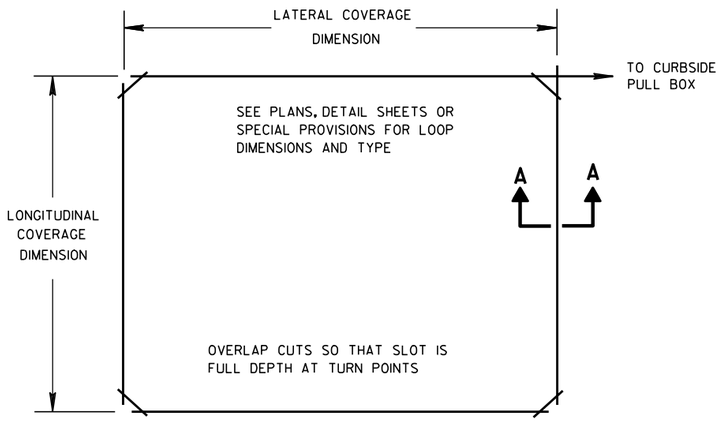
APPROVED
5/11/10 DATE
/S/ John Corbin STATE ELECTRICAL ENGI 788 HWYS
FHWA

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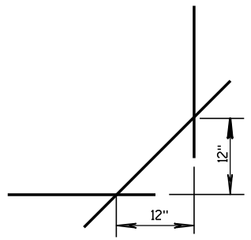
S.D.D. 9 E 7-5

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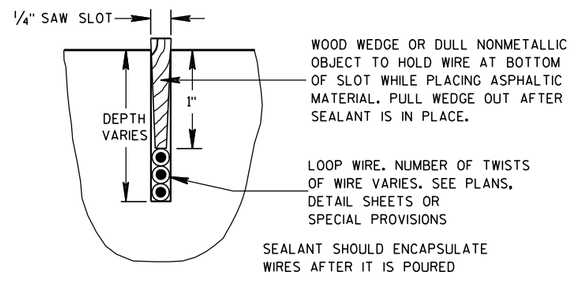
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LOOP WIRE SLOT CONSTRUCTION

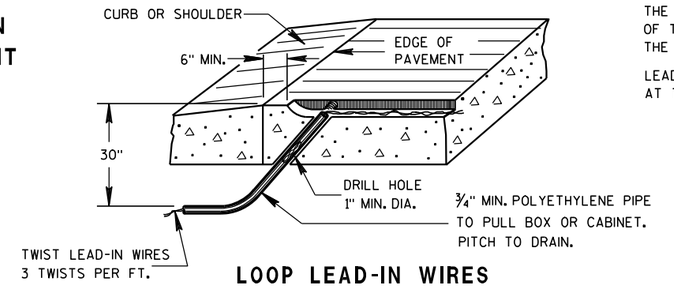


EXPANDED VIEW
SAW CUT CORNERS



SECTION A-A

LOOP AND LEAD-IN WIRES IN PAVEMENT



LOOP LEAD-IN WIRES THROUGH PAVEMENT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

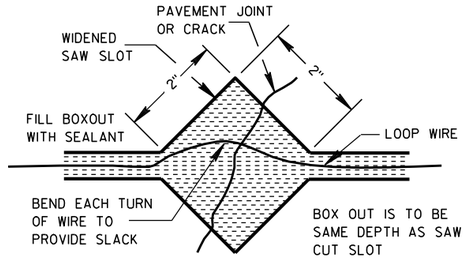
THE SLOTS IN THE PAVEMENT SHALL BE CUT TO DIMENSION WITH A SAW. THE SLOTS SHALL BE CLEANED FREE OF DIRT, DUST, MOISTURE AND DEBRIS PRIOR TO INSTALLATION OF THE WIRE.

AFTER PLACING THE WIRE IN THE SLOT, FILL THE SLOT WITH AN ASPHALTIC MATERIAL IN ACCORDANCE WITH THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

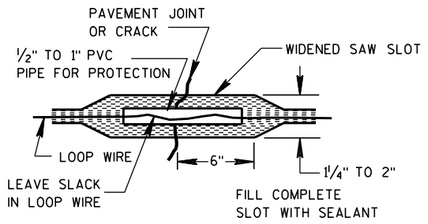
IN THE EVENT ASPHALTIC MATERIAL IS UNAVAILABLE, A FLEXIBLE TYPE EPOXY MAY BE USED AS A LOOP SLOT FILLER. THE LOOP SLOT SHALL BE CLEAN AND DRY BEFORE EPOXY IS INSTALLED. EPOXY USE SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER AND THE FURNISHED EPOXY SHALL BE INSTALLED ONLY AFTER WRITTEN APPROVAL BY THE BY THE PROJECT ENGINEER.

THE TWO SINGLE CONDUCTOR LOOP WIRES SHALL BE TWISTED TOGETHER AT A RATE OF THREE TWISTS PER FOOT FROM THE PAVEMENT EDGE TO THE SPLICE CONNECTION WITH THE LOOP LEAD-IN CABLE.

LEAD-IN CABLES AND LOOP LEAD-IN WIRES SHALL BOTH BE CUT TO 6 FEET IN LENGTH AT THE SPLICING PULL BOX.

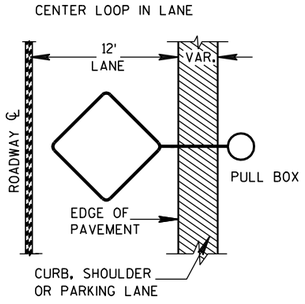


PLAN VIEW

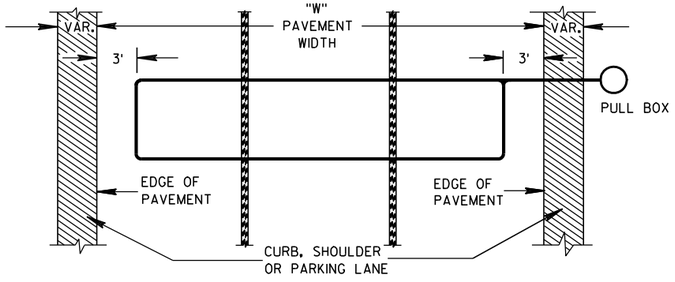


FRONT VIEW

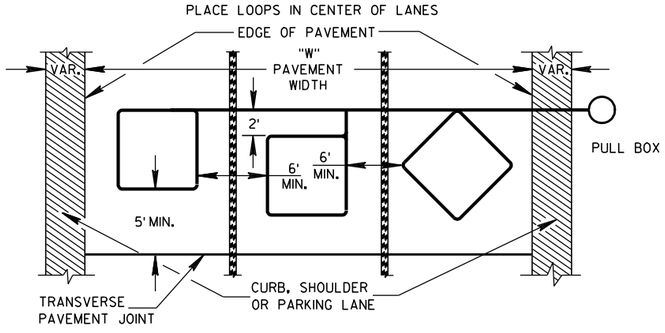
LOOP WIRE INSTALLATION ACROSS PAVEMENT JOINT OR CRACK



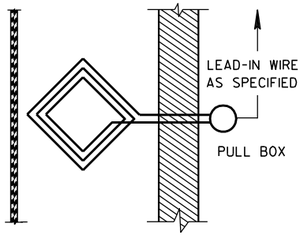
LOOP WIRE SLOT PLAN



LOOP WIRE SLOT PLAN

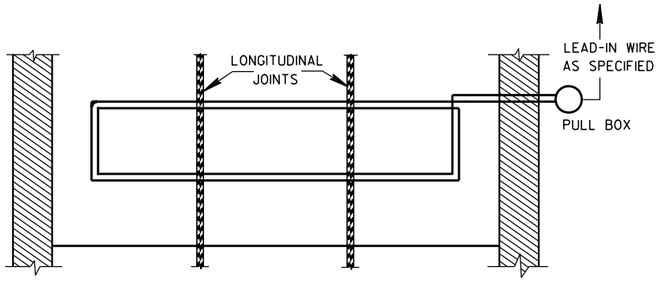


LOOP WIRE SLOT PLAN



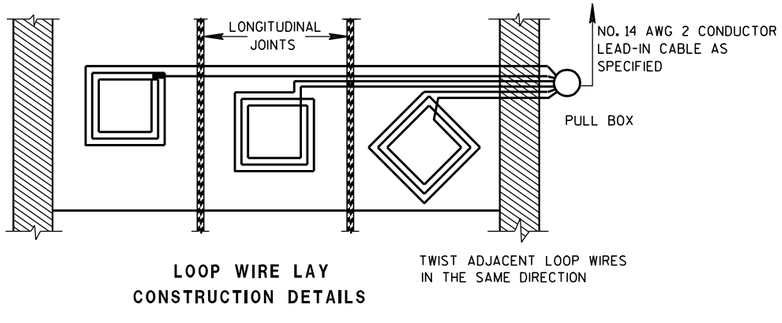
LOOP WIRE LAY CONSTRUCTION DETAILS

SINGLE LANE LOOP DETECTION



LOOP WIRE LAY CONSTRUCTION DETAILS

MULTIPLE LANE MASS LOOP DETECTION



LOOP WIRE LAY CONSTRUCTION DETAILS

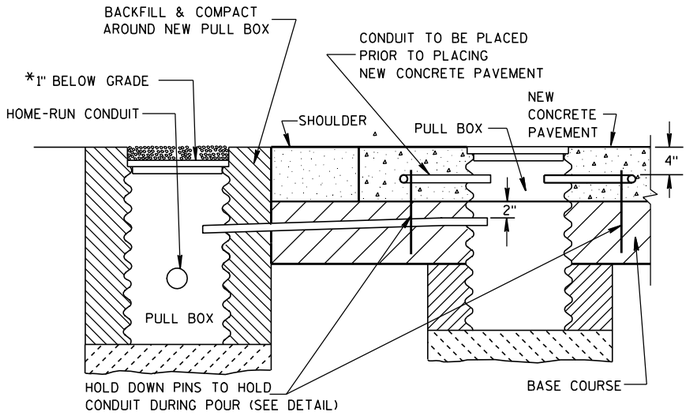
MULTIPLE LANE DETECTION BY INDIVIDUAL LANES, TYPICAL TYPE LOOPS

DETAILS FOR THE INSTALLATION OF TEMPORARY TRAFFIC SIGNAL LOOP DETECTOR WIRES IN ANY EXISTING PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/12/00 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI 789 HWYS
FHWA

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S.D.D. 9 F 1-3



SECTION A-A
NO CURB & GUTTER
LOOP DETECTOR INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

ANY PVC LEADOUT CONDUIT CONTAINING MORE THAN ONE TWISTED PAIR OF LOOP LEAD WIRE SHALL BE 2".

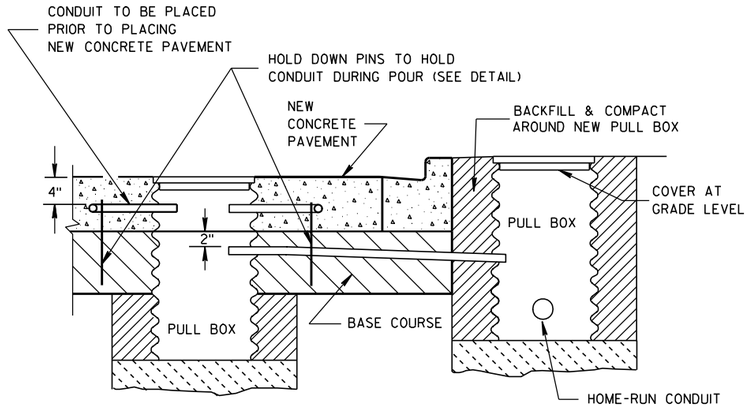
THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

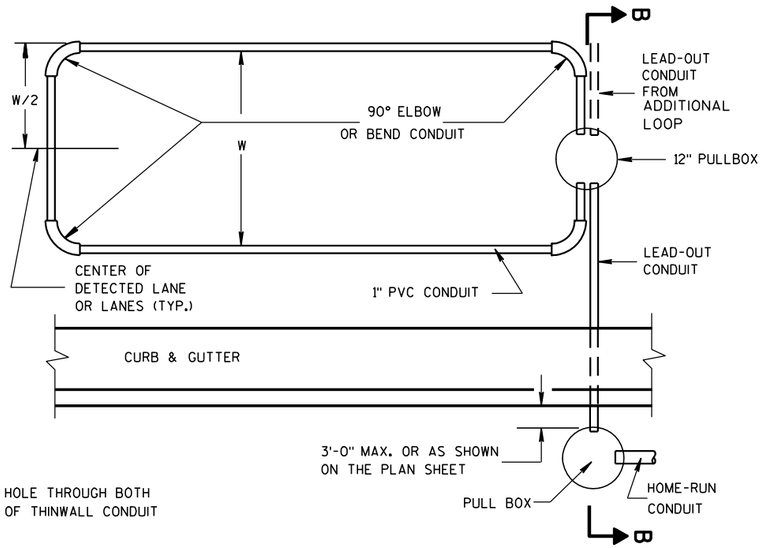
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, INTO THE PULL BOX IN THE PAVEMENT, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE PULL BOX IN THE BASE COURSE, AND THE RELATED CONDUITS SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW CONCRETE PAVEMENT IS POURED.

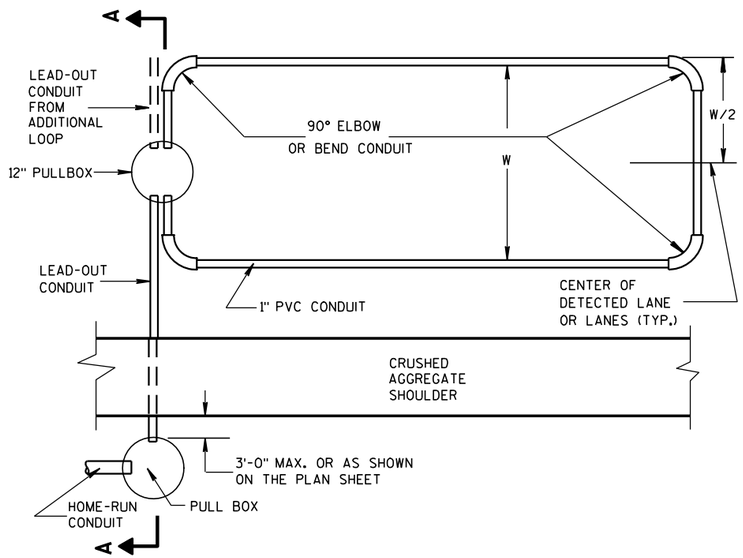
12" PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.



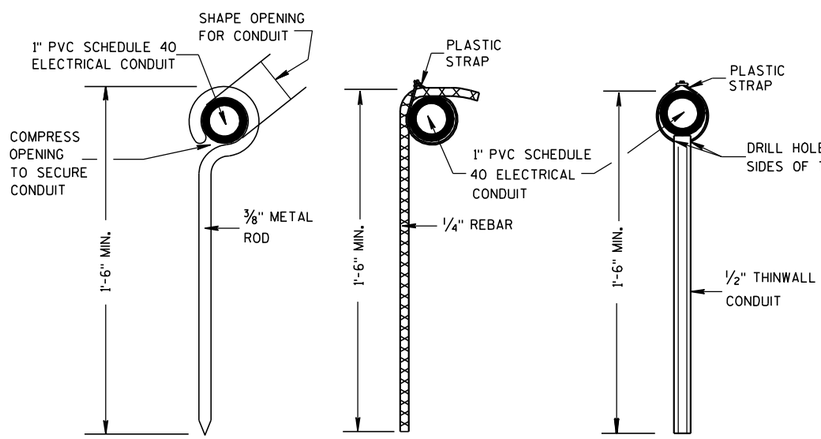
SECTION B-B
CURB & GUTTER
LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR
WITH 12" PULLBOX



TYPICAL PLAN OF LOOP DETECTOR
WITH 12" PULLBOX



TYPICAL DETAILS FOR HOLD DOWN PINS

LOOP DETECTOR INSTALLED IN NEW CONCRETE PAVEMENT ROUND CSCP PULLBOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/7/06	/S/ Balu Ananthanarayanan
DATE	STATE ELECTRICAL ENGI 790 HWYS

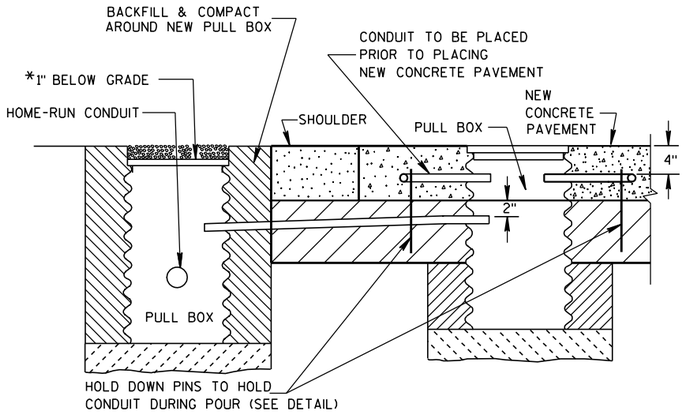
FHWA

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S.D.D. 9 F 4-3

6

S.D.D. 9 F 4-3



SECTION A-A
NO CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

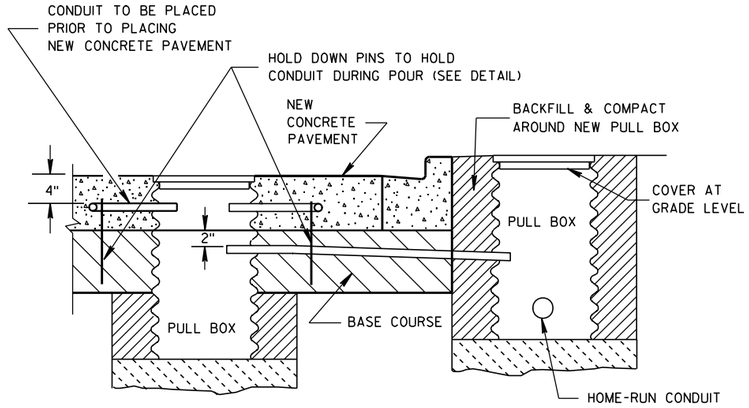
THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, INTO THE PULL BOX IN THE PAVEMENT, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

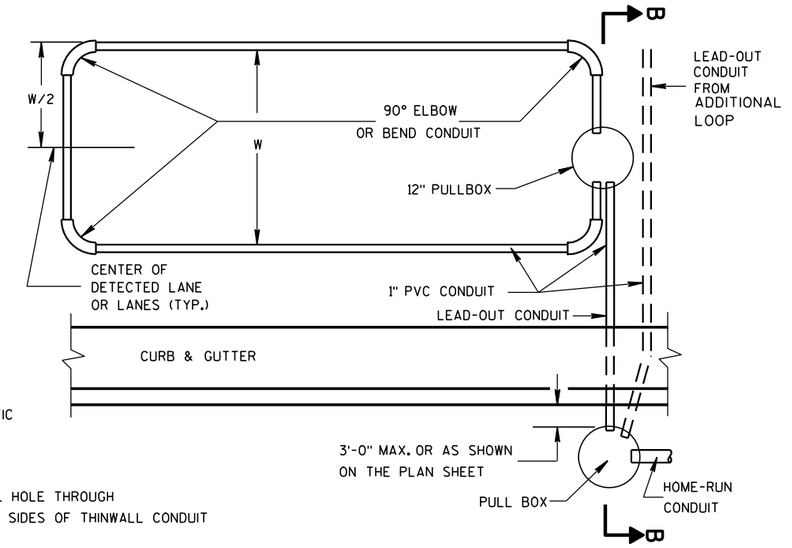
PROTECTION OF THE PULL BOX AND RELATED CONDUITS SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW CONCRETE PAVEMENT IS POURED.

12" PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.

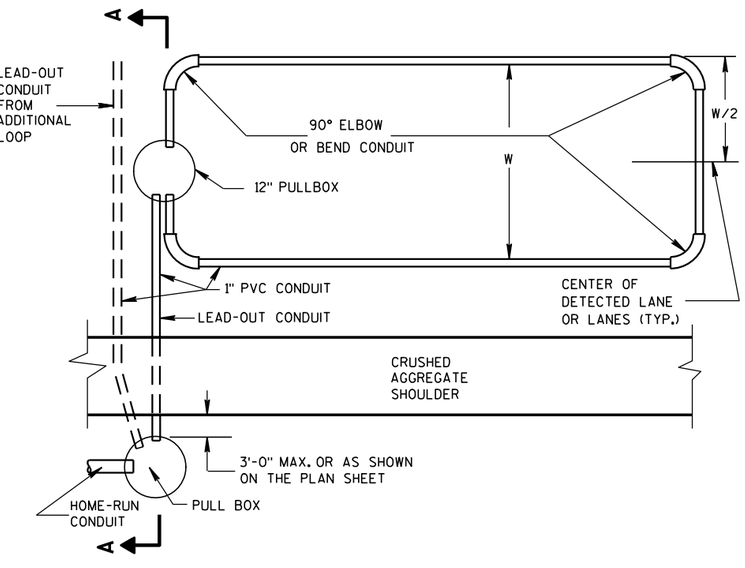


SECTION B-B
CURB & GUTTER

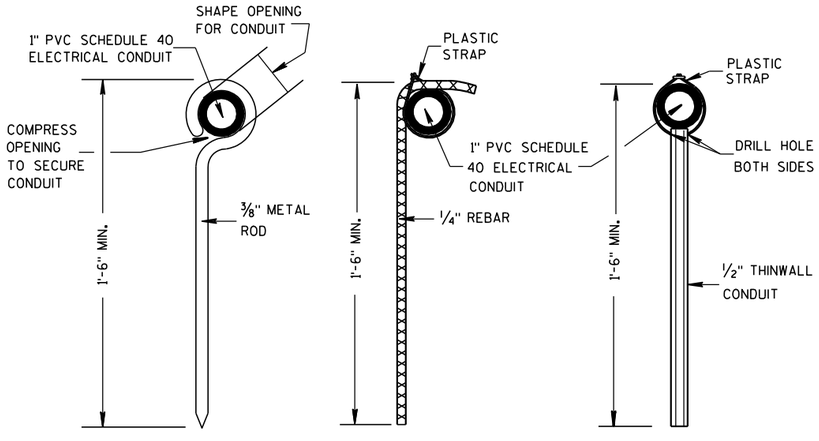
LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR
WITH 12" PULLBOX



TYPICAL PLAN OF LOOP DETECTOR
WITH 12" PULLBOX



TYPICAL DETAILS FOR HOLD DOWN PINS

LOOP DETECTOR INSTALLED
IN NEW CONCRETE PAVEMENT
ROUND CSCP PULLBOX
(MULTIPLE LEAD-OUT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/7/06 DATE

/S/ Balu Ananthar [illegible] an
STATE ELECTRICAL ENGI 791 HWYS

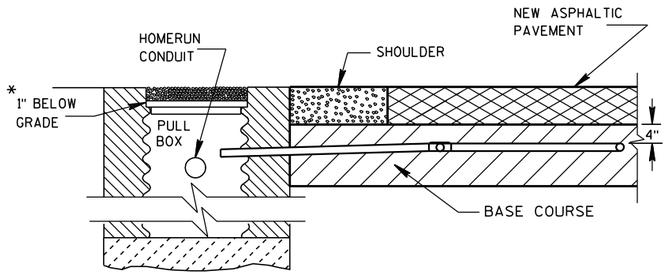
FHWA

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S.D.D. 9 F 5-3

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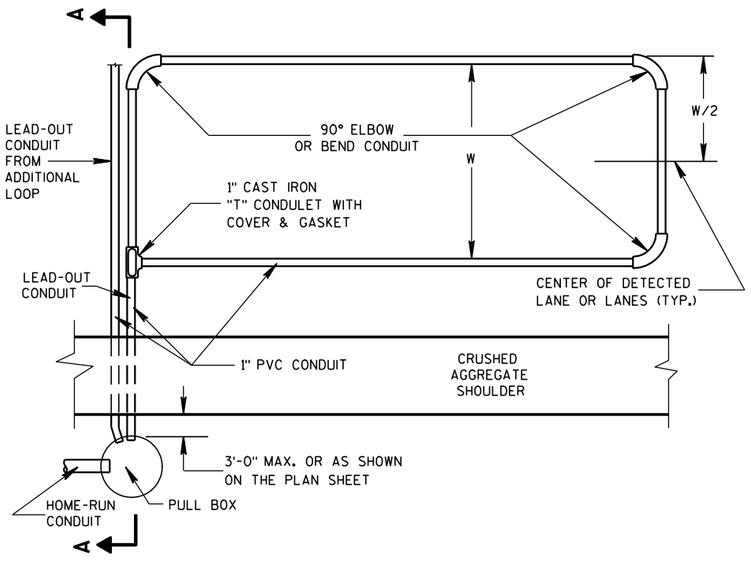
S.D.D. 9 F 5-3



SECTION A-A
NO CURB & GUTTER

DETECTOR LOOP INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF LOOP DETECTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD-OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

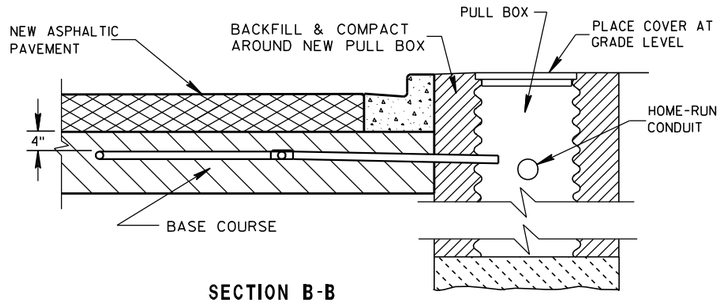
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT AND CONDULET SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE ASPHALTIC PAVEMENT IS PLACED.

WHEN MULTIPLE LAYERS OF ASPHALTIC PAVEMENT ARE TO BE PLACED, LOOPS MAY BE INSTALLED BY SAWING A TWO INCH WIDE SLOT IN THE FIRST LAYER, DIG OUT THE ASPHALTIC MATERIAL AND BASE COURSE. PLACE THE LOOP, FILL THE SLOT WITH BASE COURSE MATERIAL AND NEW ASPHALTIC MATERIAL AND TAMP THE ASPHALTIC MATERIAL IN PLACE.

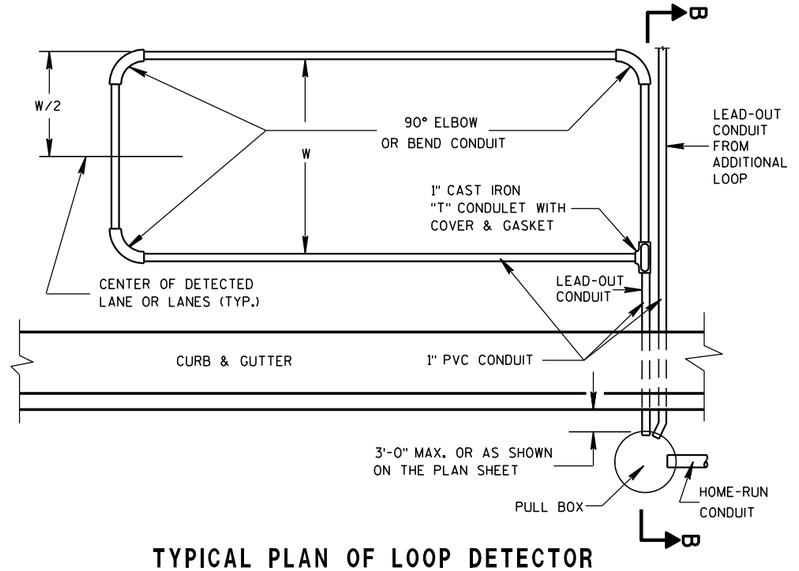
SHOULD TRAFFIC BE ALLOWED TO USE THE AREA OF ROADWAY WITH THE NEWLY INSTALLED LOOP BEFORE THE PLACEMENT OF THE NEXT LAYER OF ASPHALTIC PAVEMENT, THE SLOT/PAVEMENT OPENING SHALL BE SEALED WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

DRIVE A 1½" MAX. PK NAIL INTO THE NEW ASPHALTIC PAVEMENT AND DIRECTLY ABOVE THE CONDULET AFTER THE FINAL LAYER OF NEW ASPHALTIC PAVEMENT IS COMPLETELY INSTALLED, IF REQUIRED BY THE DISTRICT TRAFFIC SECTION.



SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR

LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

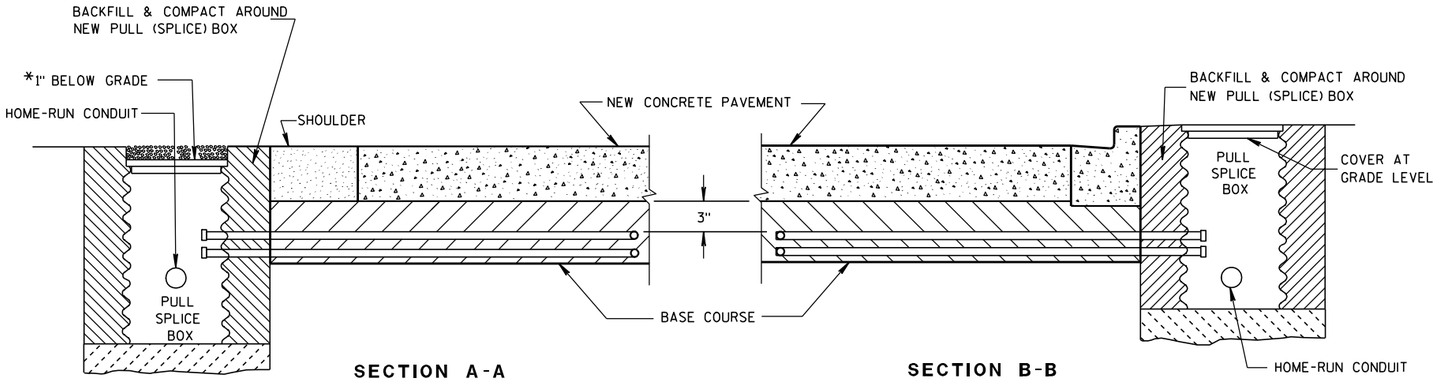
APPROVED

6/7/06 DATE

/S/ Balu Ananthar[illegible]an
STATE ELECTRICAL ENGI 792 HWYS

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SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

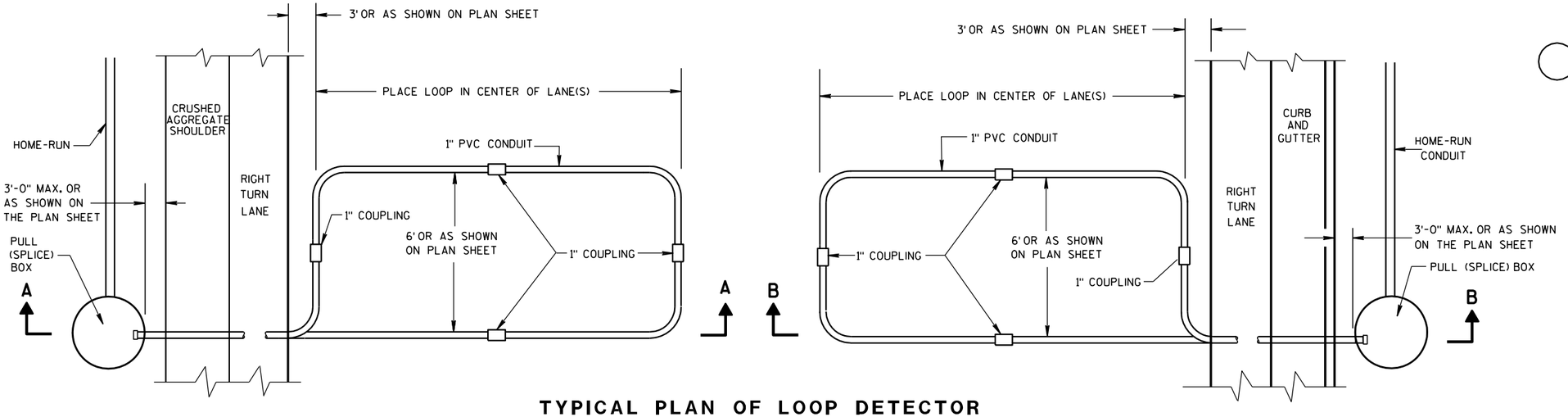
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

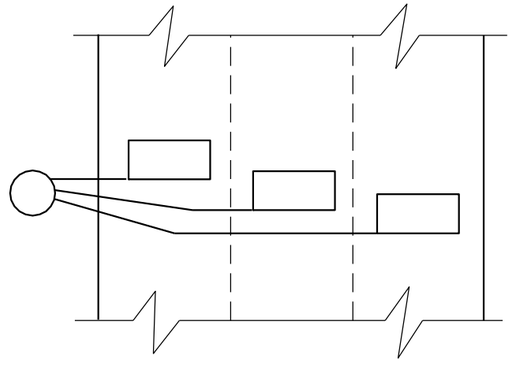
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/7/06 DATE
/S/ Balu Anantharaman
STATE ELECTRICAL ENGI 793 HWYS
FHWA

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S.D.D. 9 F 15-3b

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S.D.D. 9 F 15-3b

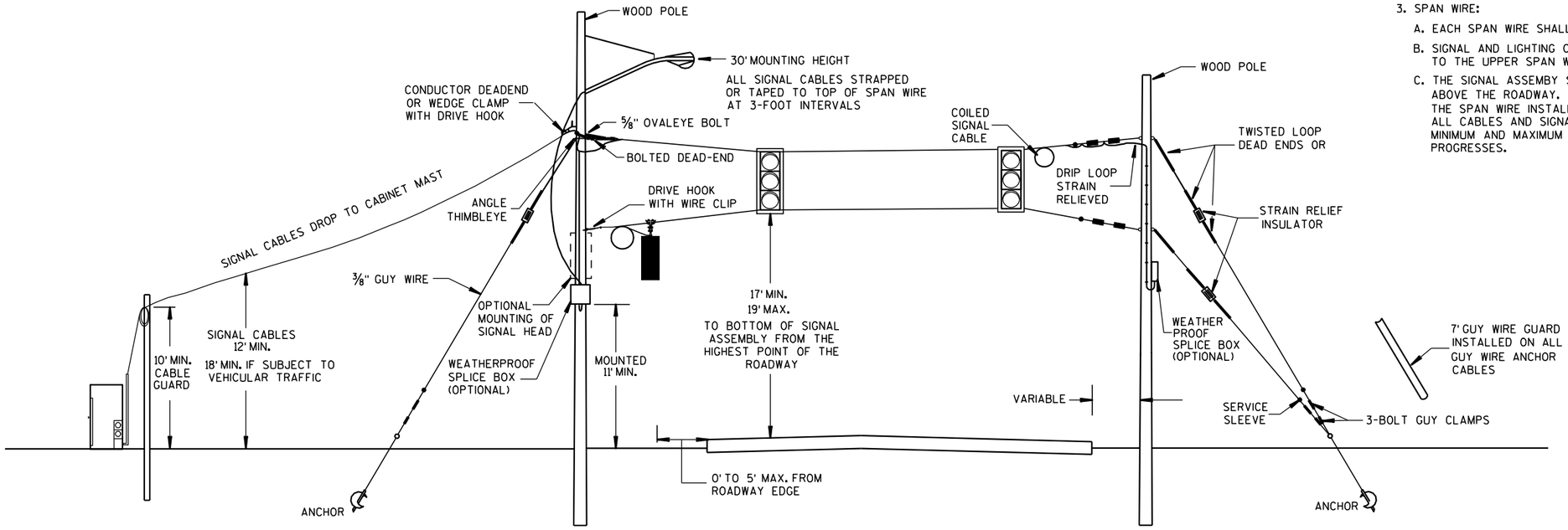
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

MINIMUM POLE LENGTHS	POLE BURIEL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

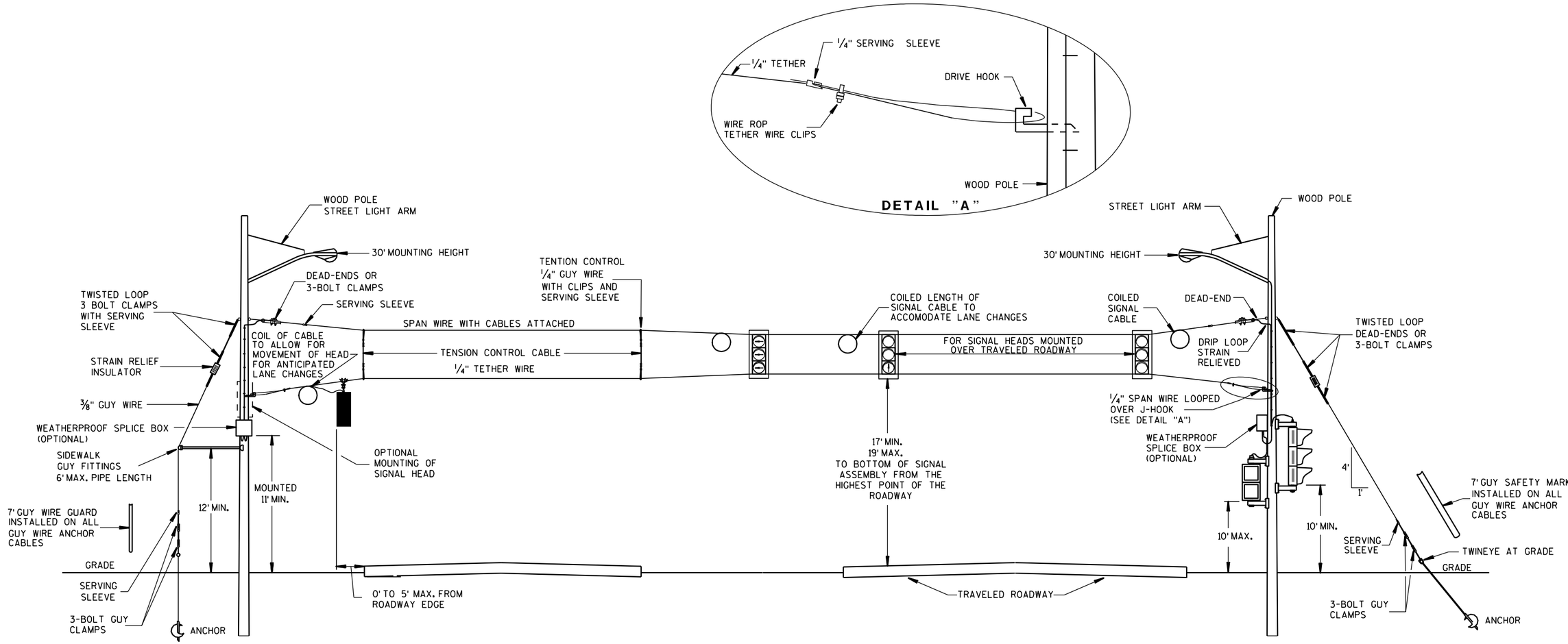
7-14-08 DATE

/S/ Balu Ananthar [illegible] n
STATE ELECTRICAL ENGI 794 HWYS

FHWA

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S.D.D. 9 G 1-3a



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08 DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 795 HWYS

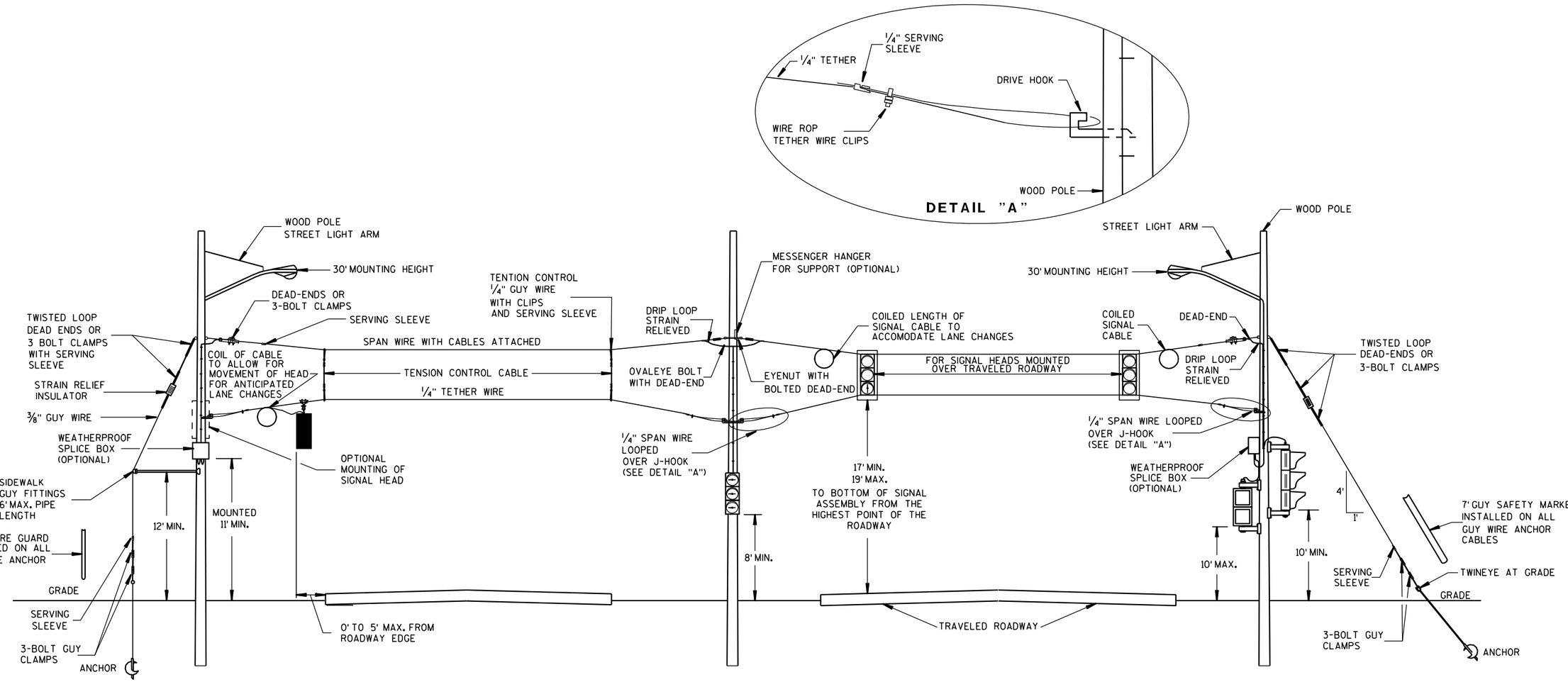
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S.D.D. 9 G 1-3b

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S.D.D. 9 G 1-3b



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

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   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08 DATE

/S/ Balu Aganthangayanan
STATE ELECTRICAL ENGI 796 HWYS

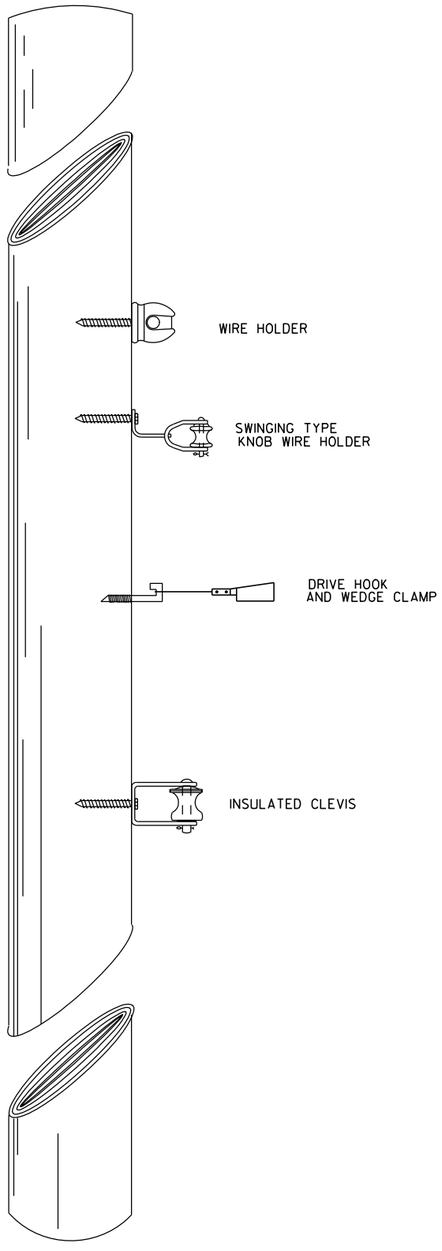
FHWA

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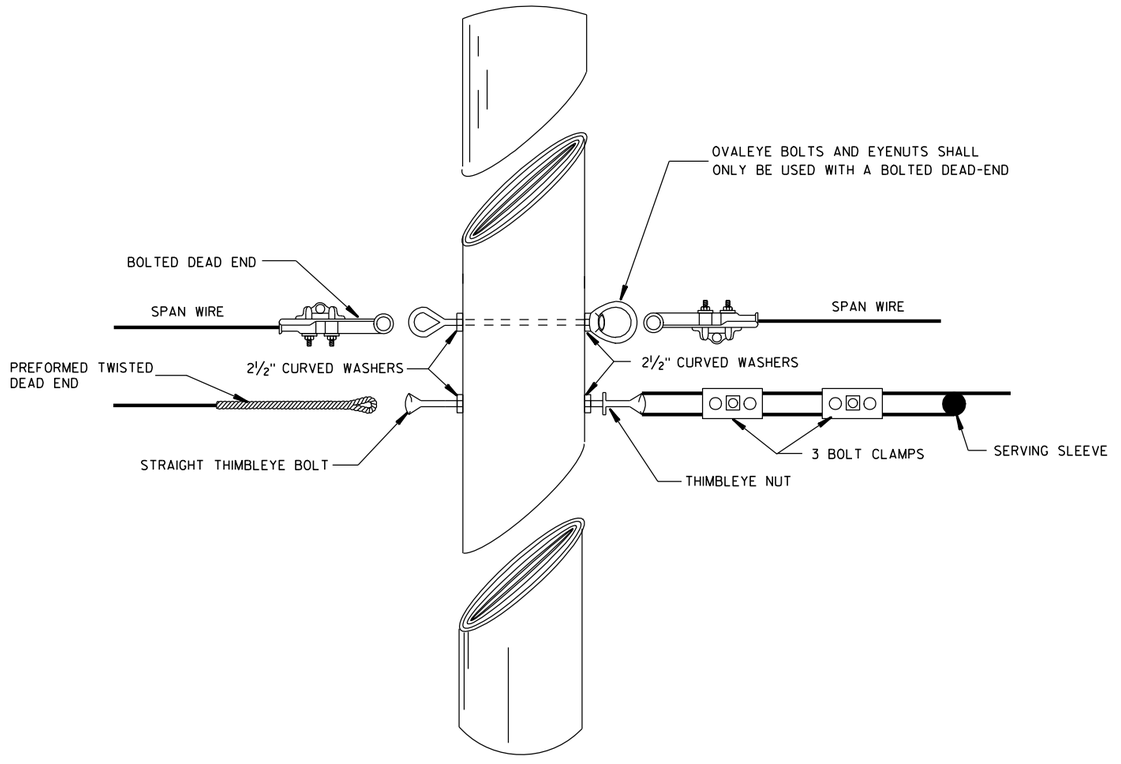
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S.D.D. 9 G 1-3c



TYPICAL CABLE HANGERS



TYPICAL DEAD-ENDING

6

6

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S.D.D. 9 G 1-3d

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

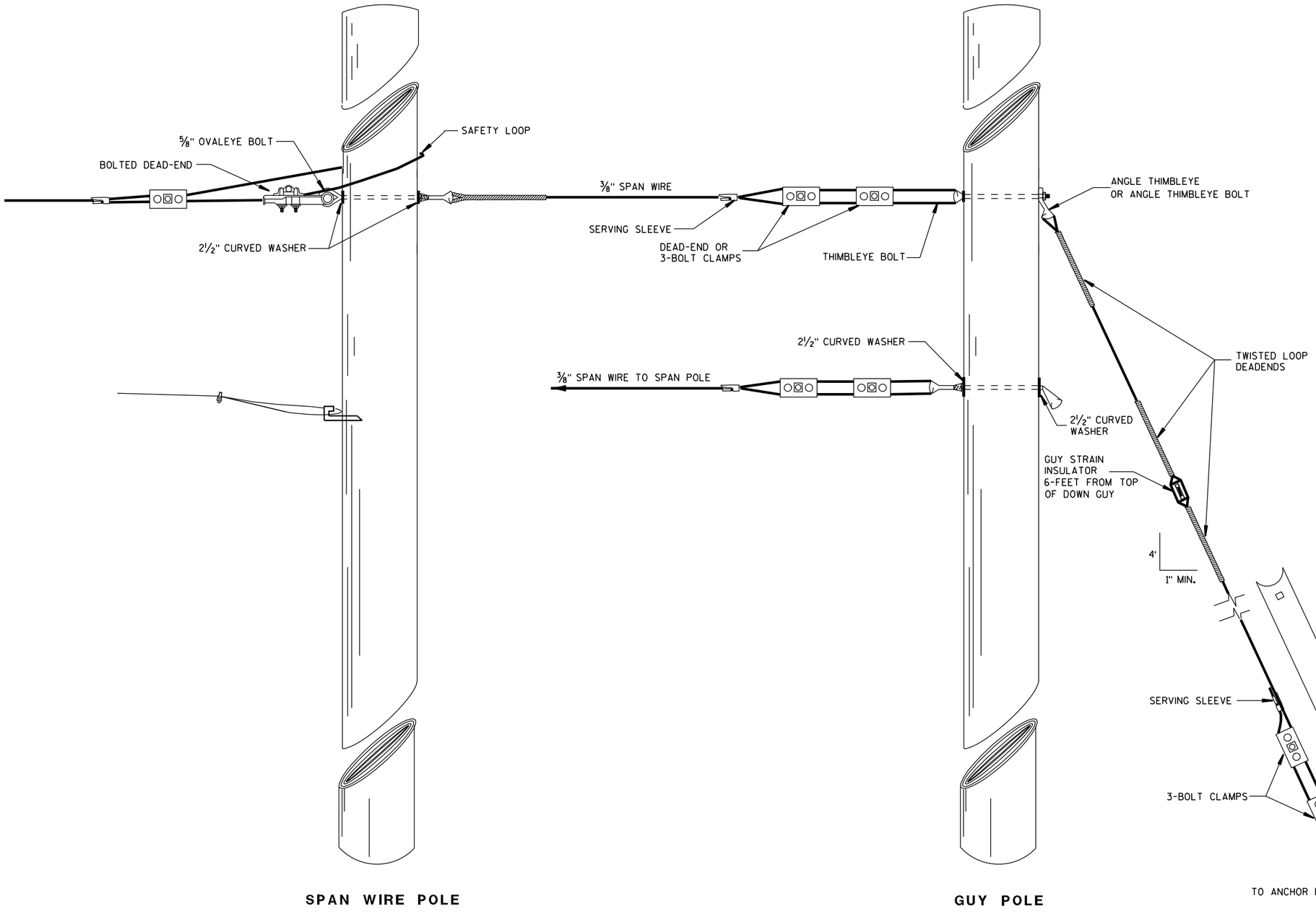
7-14-08
DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 797 HWYS

FHWA

GENERAL NOTES

1. USE ¾" DRILL IN WOOD POLE TO PROVIDE HOLE FOR ⅝" BOLTS.
2. SAFTY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE

GUY POLE

TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

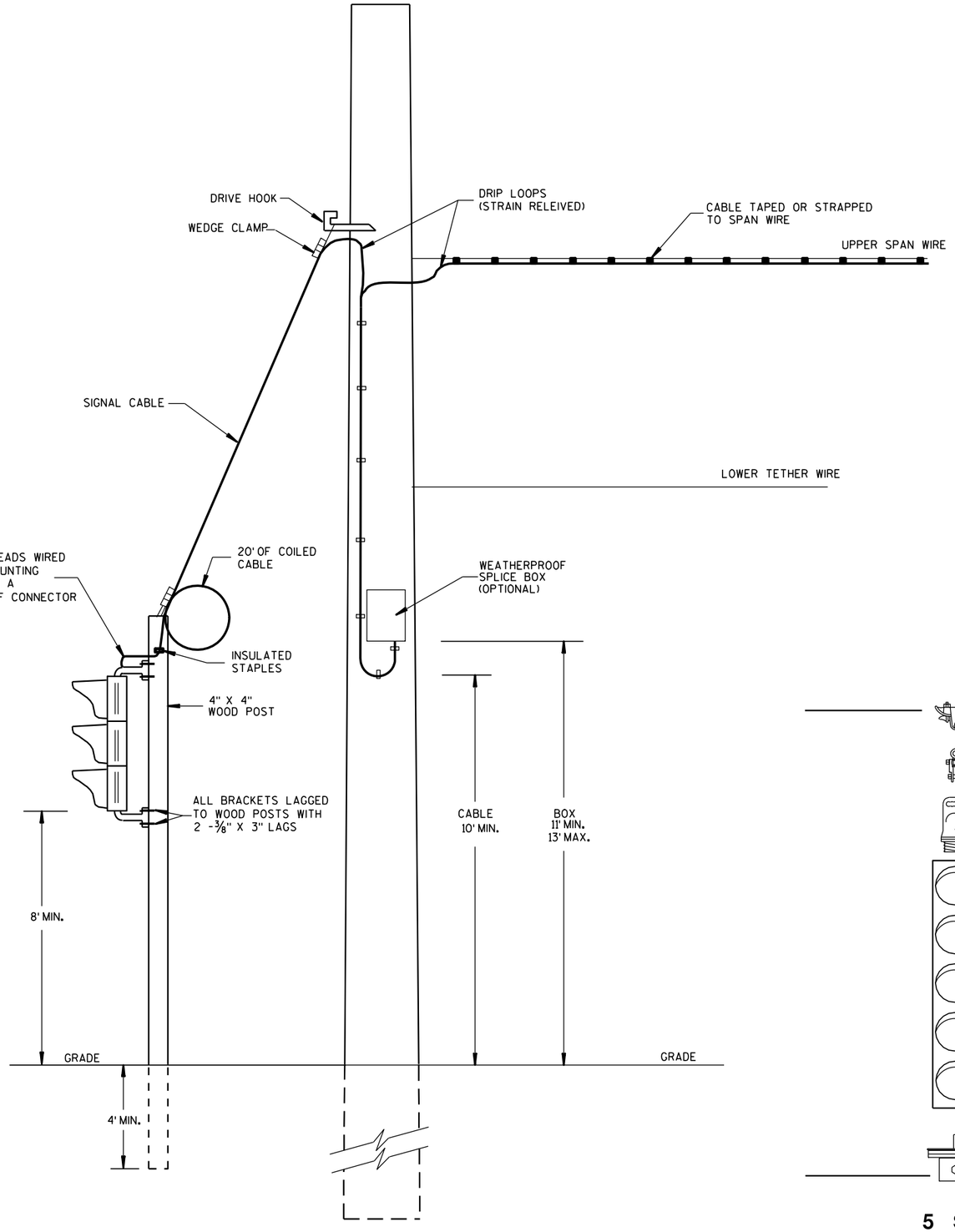
APPROVED
7-14-08 DATE
/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 798 HWYS
FHWA

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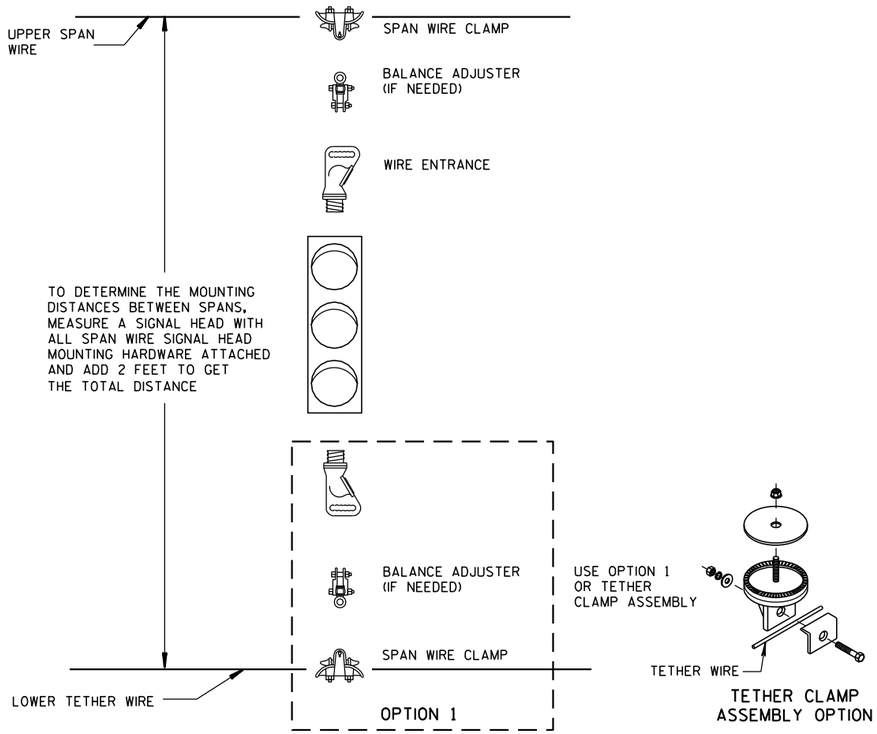
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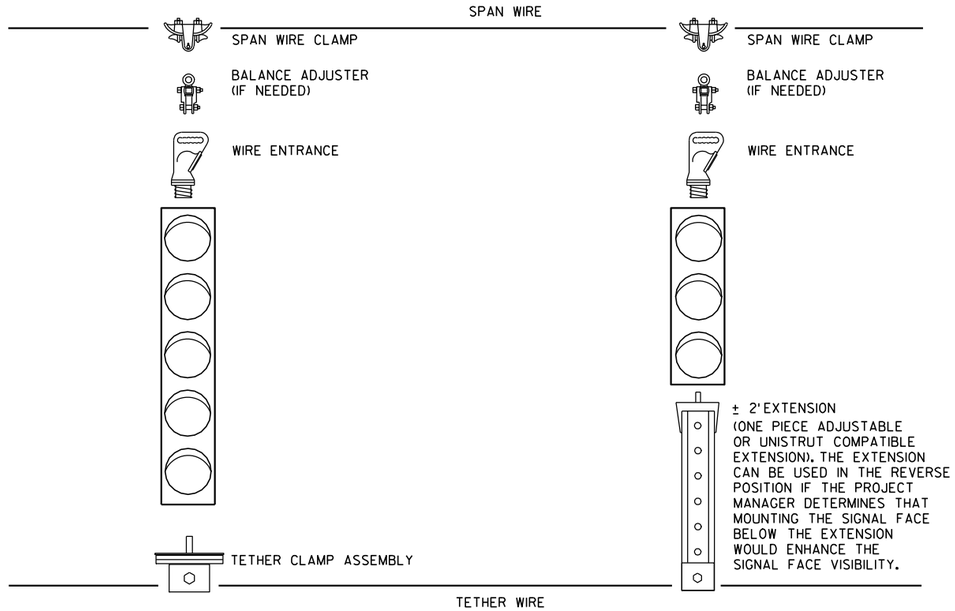
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TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

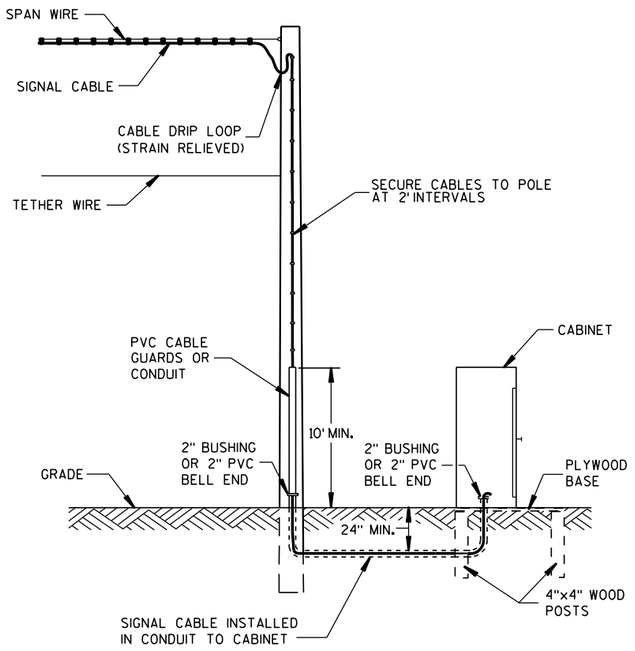
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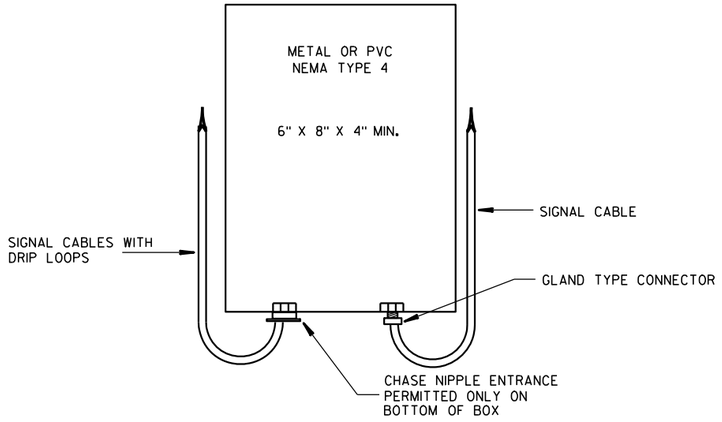
7-14-08
DATE

/S/ Balu Aganthangarayanan
STATE ELECTRICAL ENGI 799 HWYS

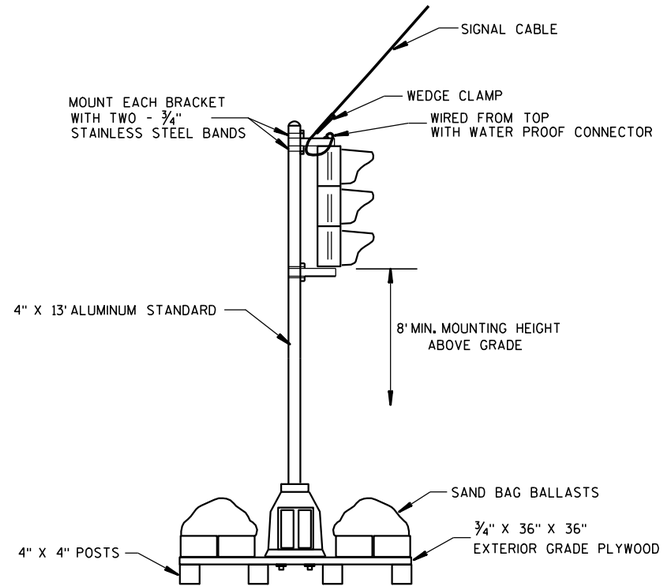
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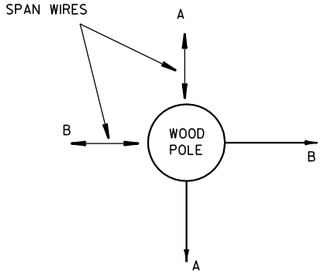




SPLICE BOX

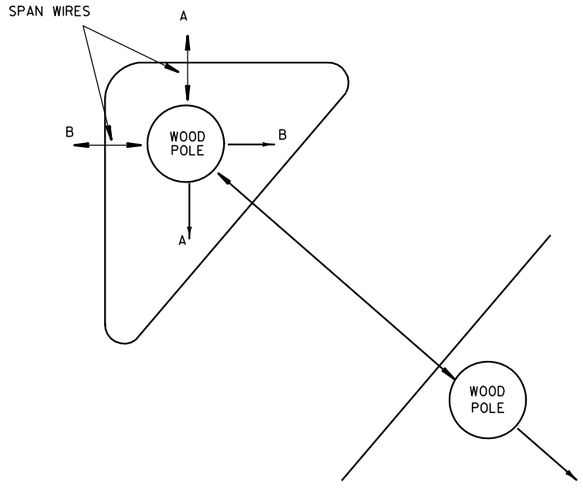


TYPICAL SKID TYPE TEMPORARY

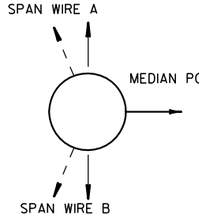


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF THE
SPAN LOADING

MEDIAN POLES

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08
DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 800 HWYS

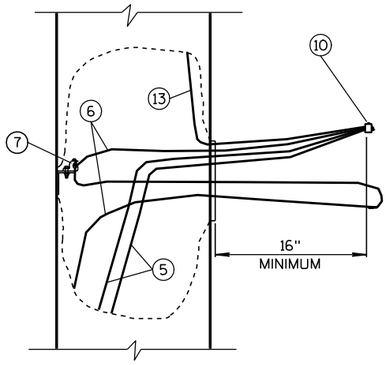
FHWA

6

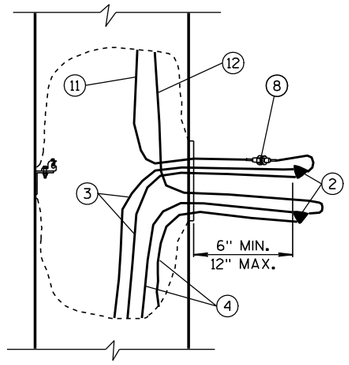
S.D.D. 9 G 1-3g

6

S.D.D. 9 G 1-3g

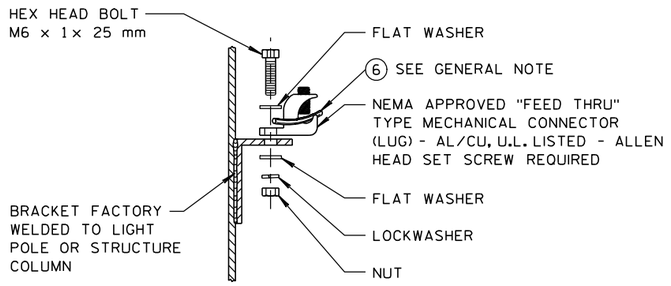


EQUIPMENT GROUNDING CONDUCTOR SLACK



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

TYPICAL CONDUCTOR SLACK AT HANDHOLES



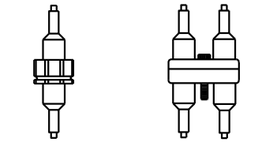
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.



FUSE ASSEMBLIES

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

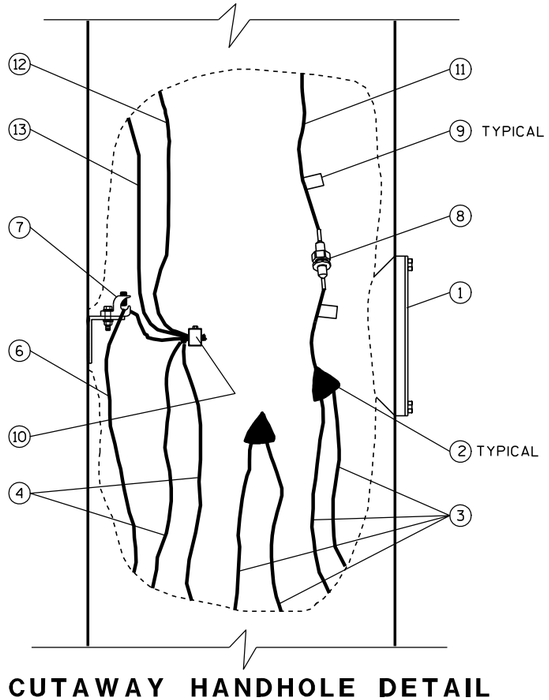
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

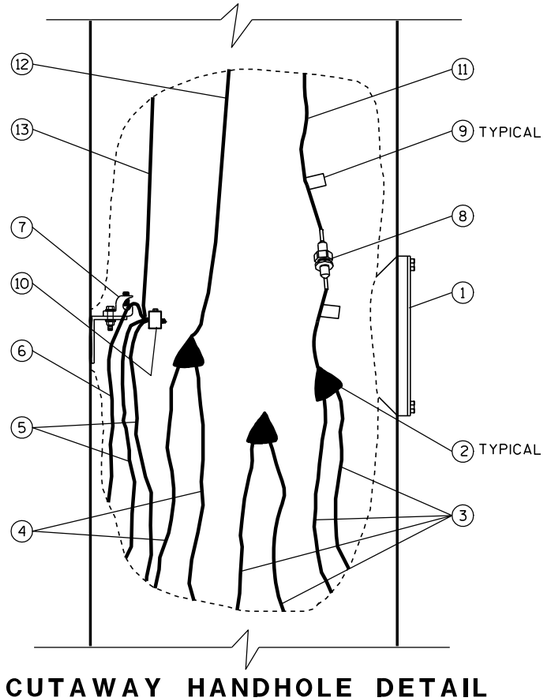
THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYLON CABLE TIE.

IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

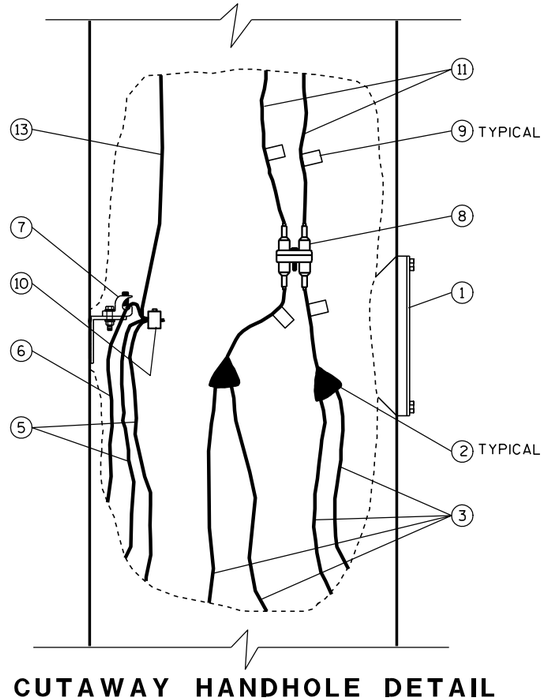
CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



CUTAWAY HANDHOLE DETAIL
GROUNDED NEUTRAL SYSTEMS
1-φ



CUTAWAY HANDHOLE DETAIL
ISOLATED NEUTRAL SYSTEMS
1-φ SHOWN; 3-φ WYE SIMILAR
(SEE GENERAL NOTE)



CUTAWAY HANDHOLE DETAIL
PHASE-TO-PHASE SYSTEMS
1-φ SHOWN; 3-φ DELTA SIMILAR
(SEE GENERAL NOTE)

NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.

1. HANDHOLE AND COVER
2. INSULATED SPLICE
3. UNGROUNDED LINE WIRE
4. GROUNDED LINE WIRE
5. SYSTEM GROUNDING LINE WIRE
6. GROUNDING ELECTRODE CONDUCTOR
7. HANDHOLE GROUNDING LUG
8. FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
9. CIRCUIT TAG (SEE GENERAL NOTE)
10. REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
11. UNGROUNDED POLE WIRE
12. GROUNDED POLE WIRE
13. EQUIPMENT GROUNDING POLE WIRE

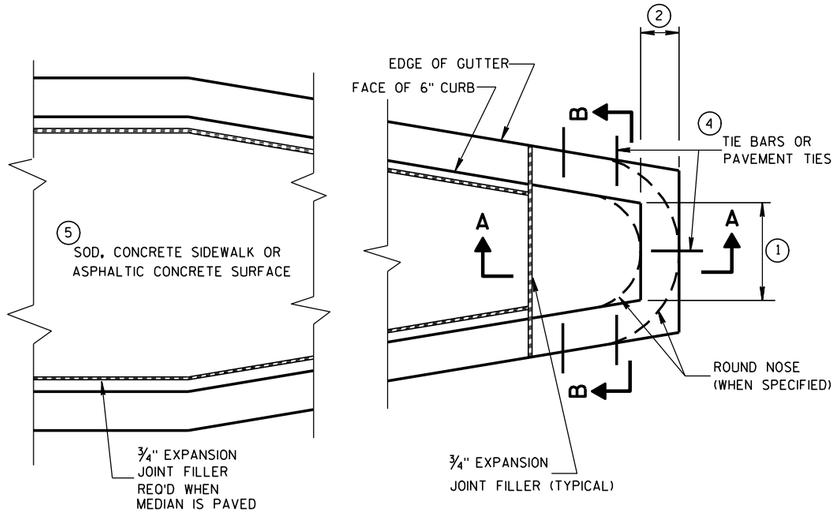
ELECTRICAL HANDHOLE WIRING

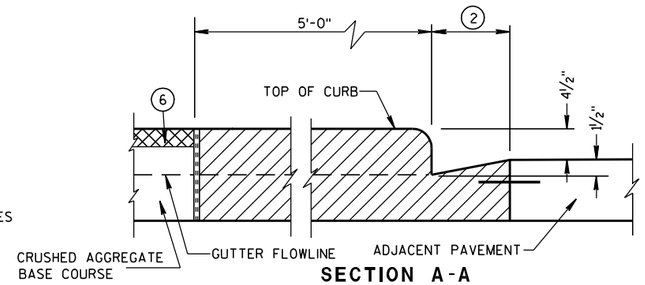
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/25/2010 DATE
/S/ John Corbin STATE ELECTRICAL ENGI 801
FHWA HWYS

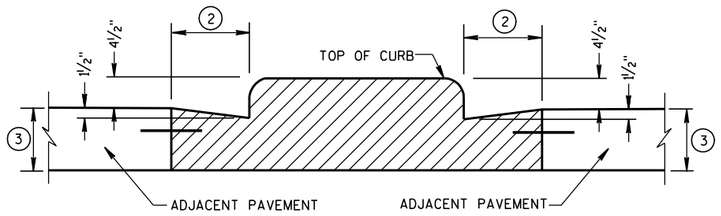
6

S.D.D. 10 A 1-2





SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

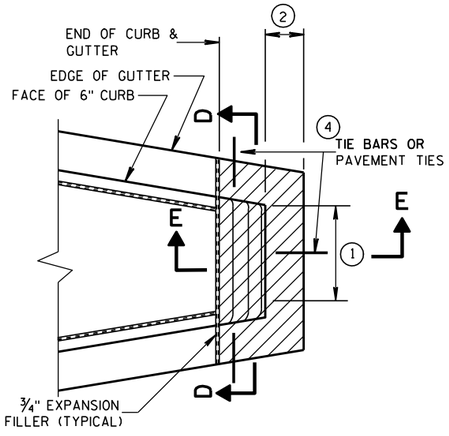
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

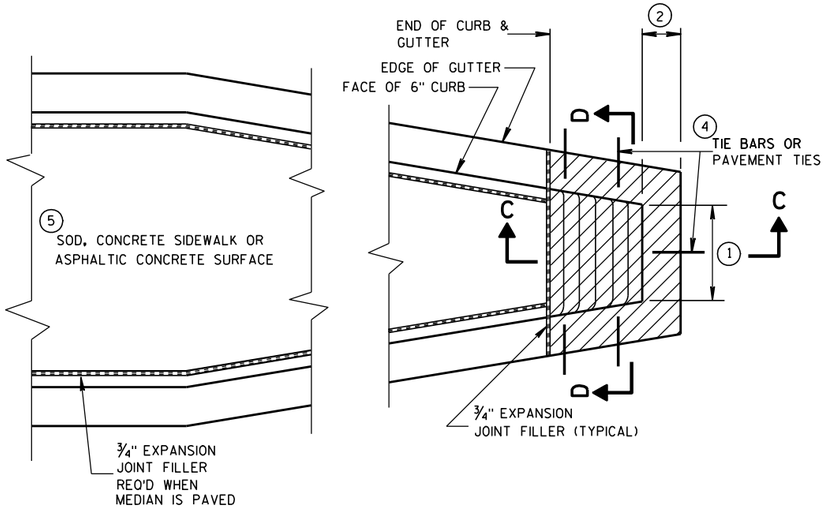
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

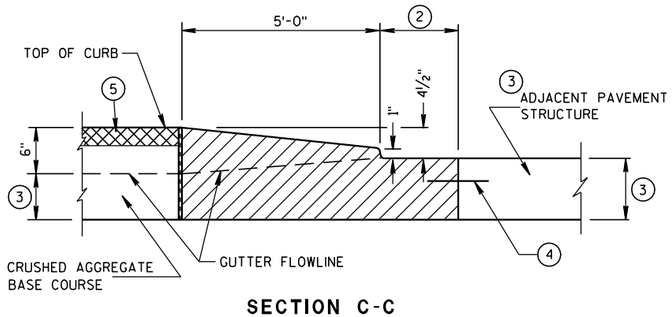
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

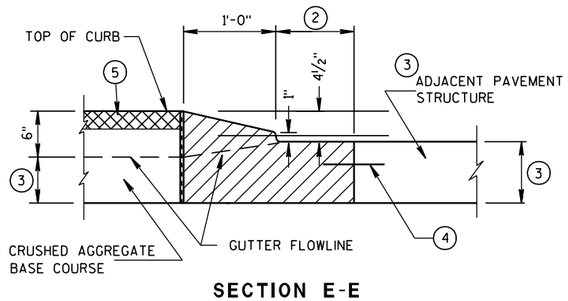
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.







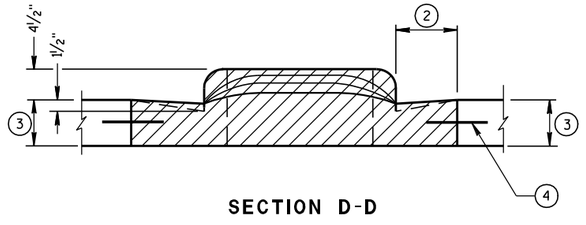
SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 1

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

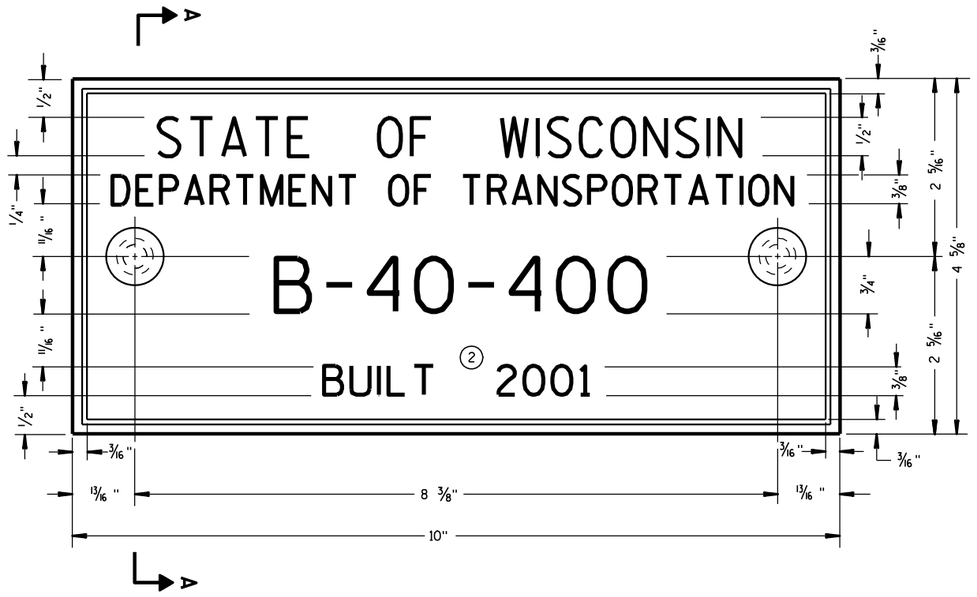
CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE	/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER 1802 NT
FHWA	

6

S.D.D. 11 B 2-2

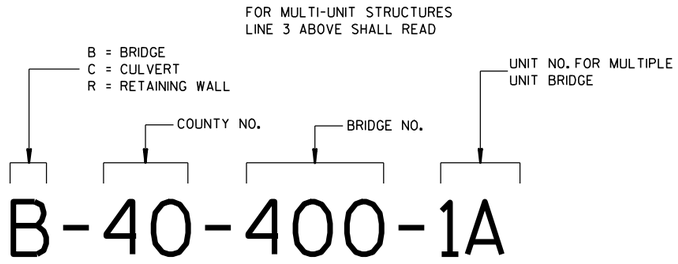
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S.D.D. 11 B 2-2



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

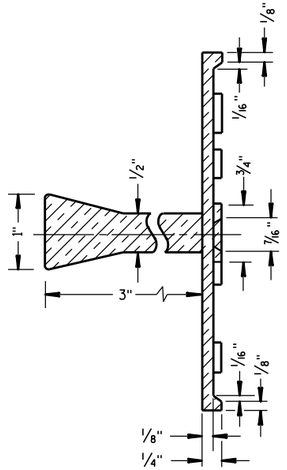
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

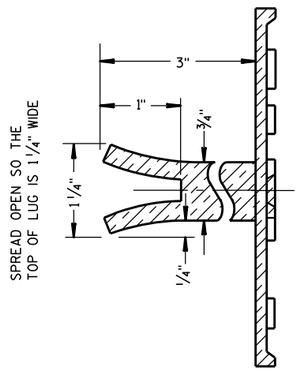
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

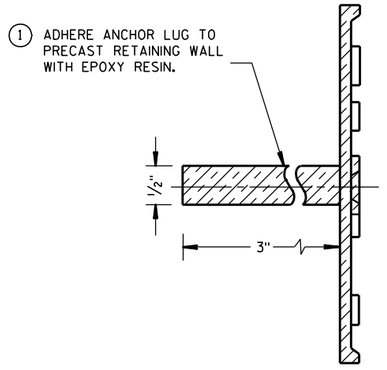
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



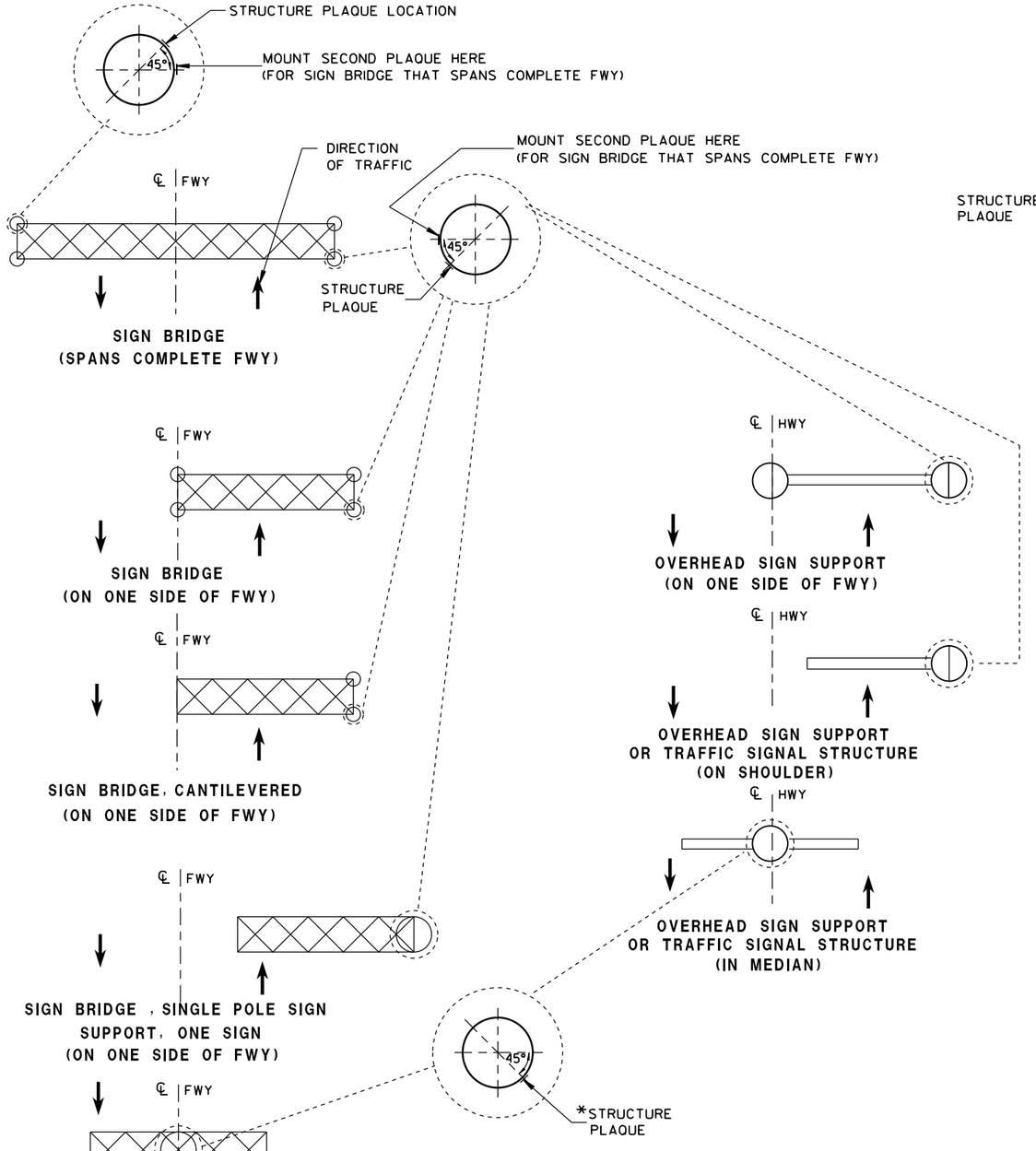
ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
3/26/10 DATE	/S/ Scot Beck CHIEF STRUCTURAL DEVELOPMENT ENGINEER
FHWA	

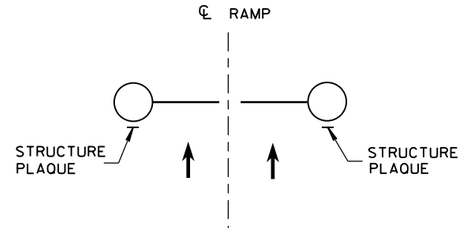
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S.D.D. 12 A 3-10

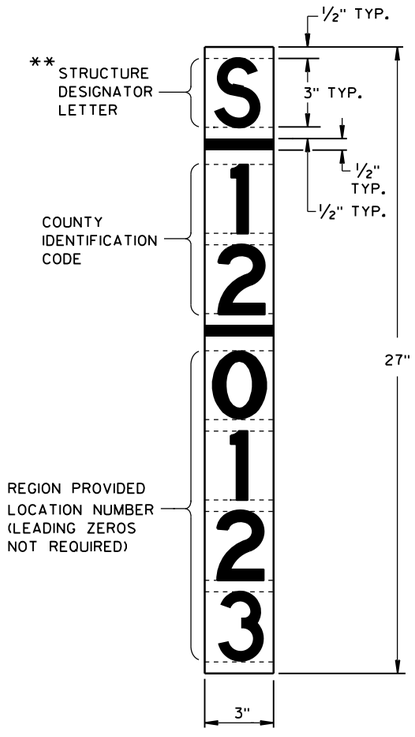


LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.



RAMP GATE
(ACROSS FWY ON-RAMP)



GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

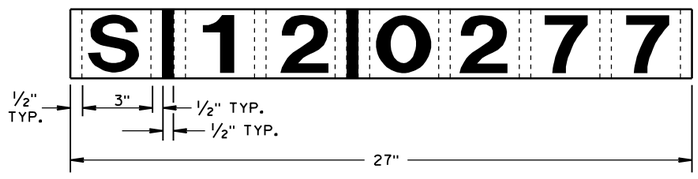
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

804

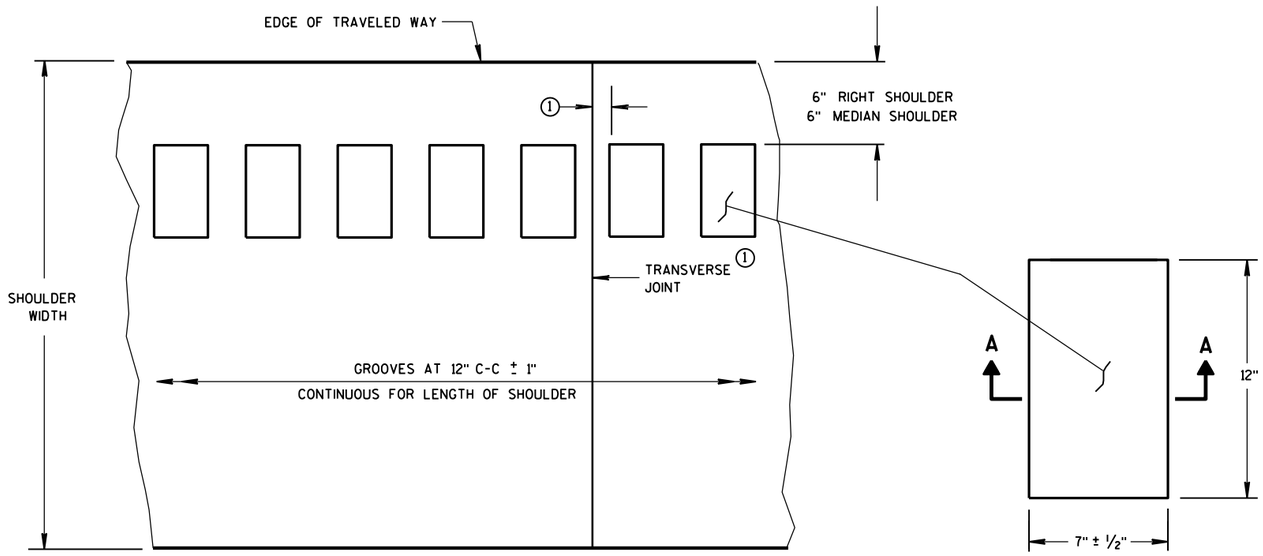
SIGN

6

S.D.D. 12 A 4-3

6

S.D.D. 12 A 4-3



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

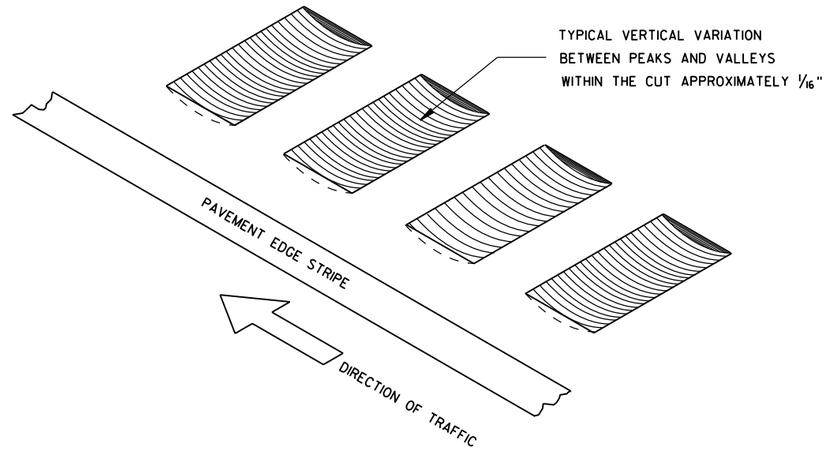
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

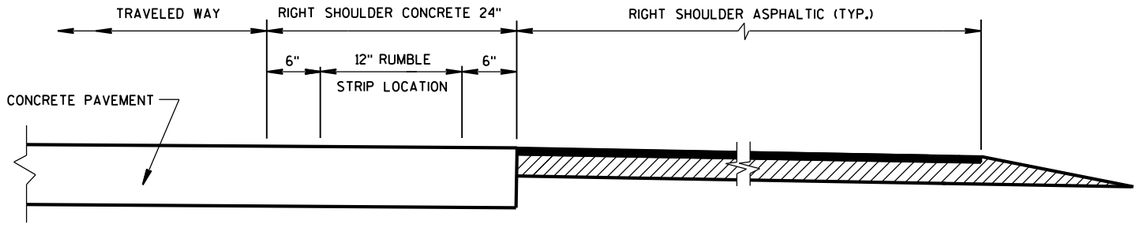
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

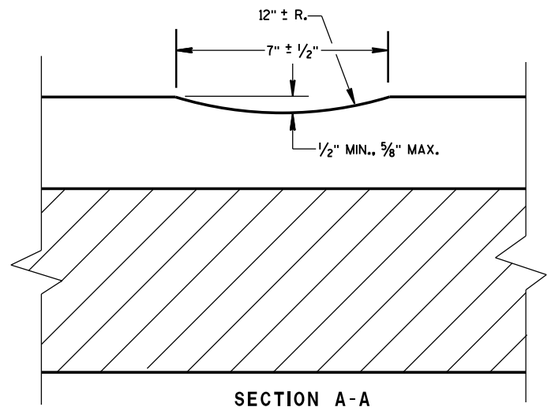
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



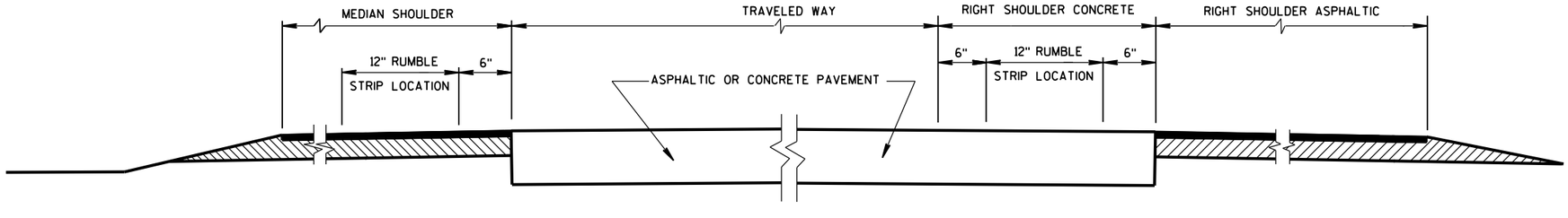
ISOMETRIC



SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION A-A



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS IN RURAL DIVIDED HIGHWAYS

(ONE ROADWAY IS SHOWN)

SHOULDER RUMBLE STRIP, MILLING

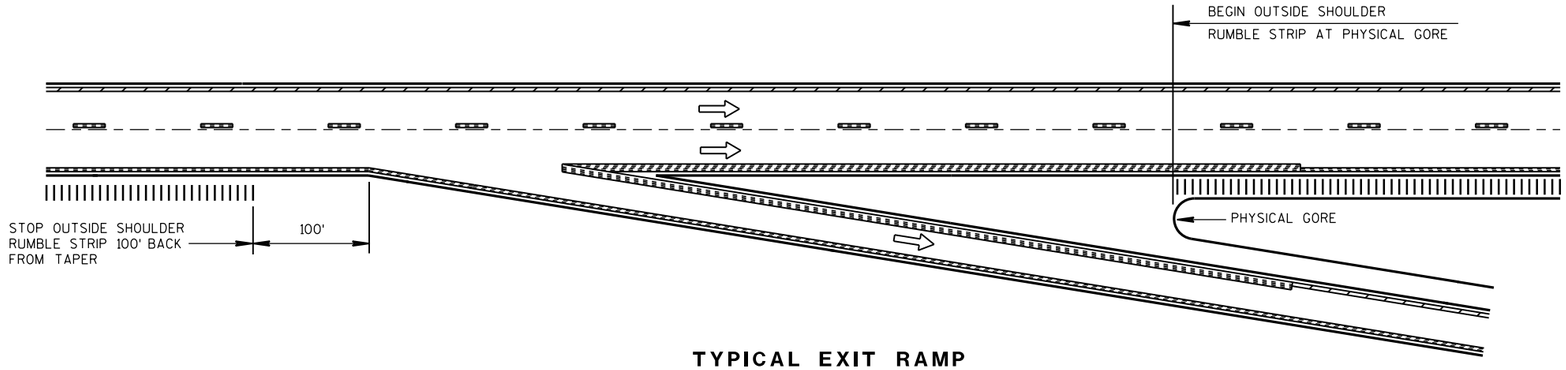
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 13 A 5-5a

6

S.D.D. 13 A 5-5a



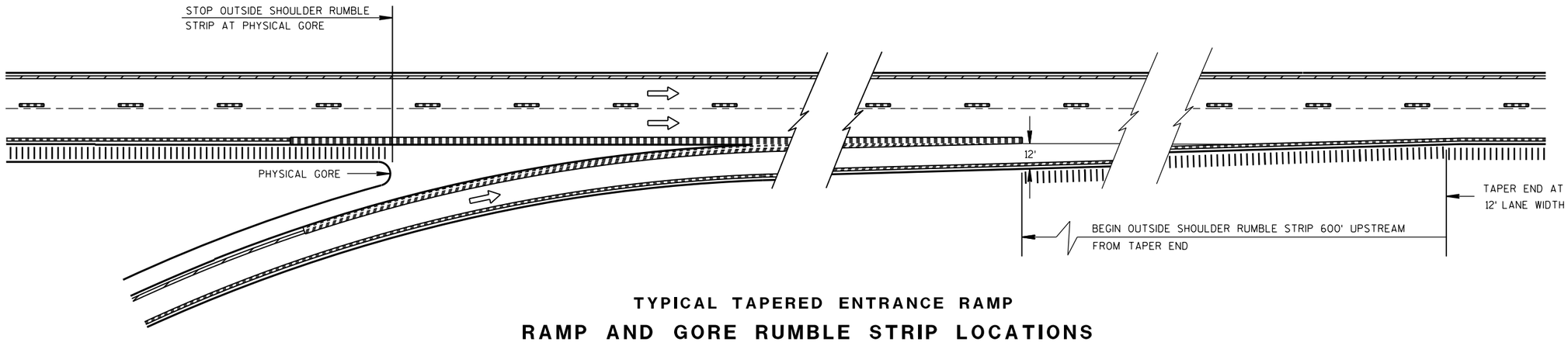
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

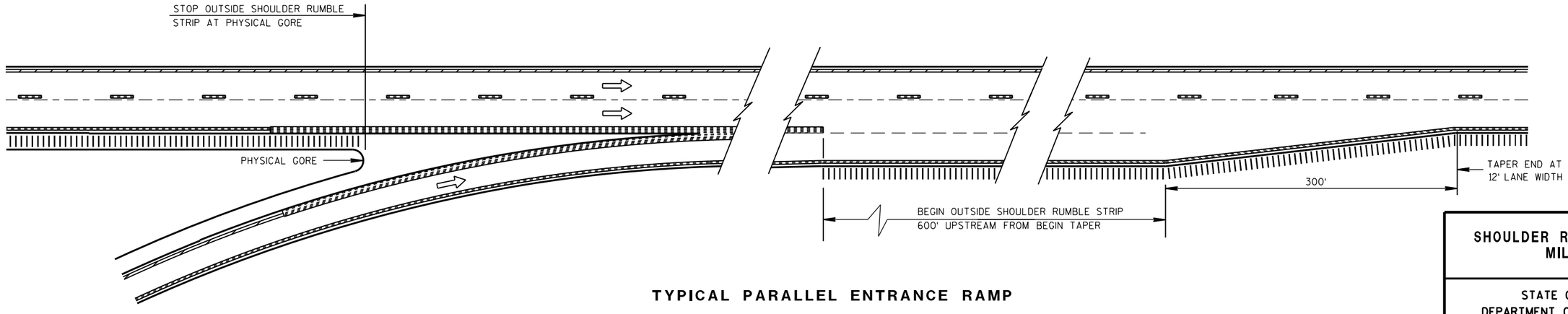
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

806

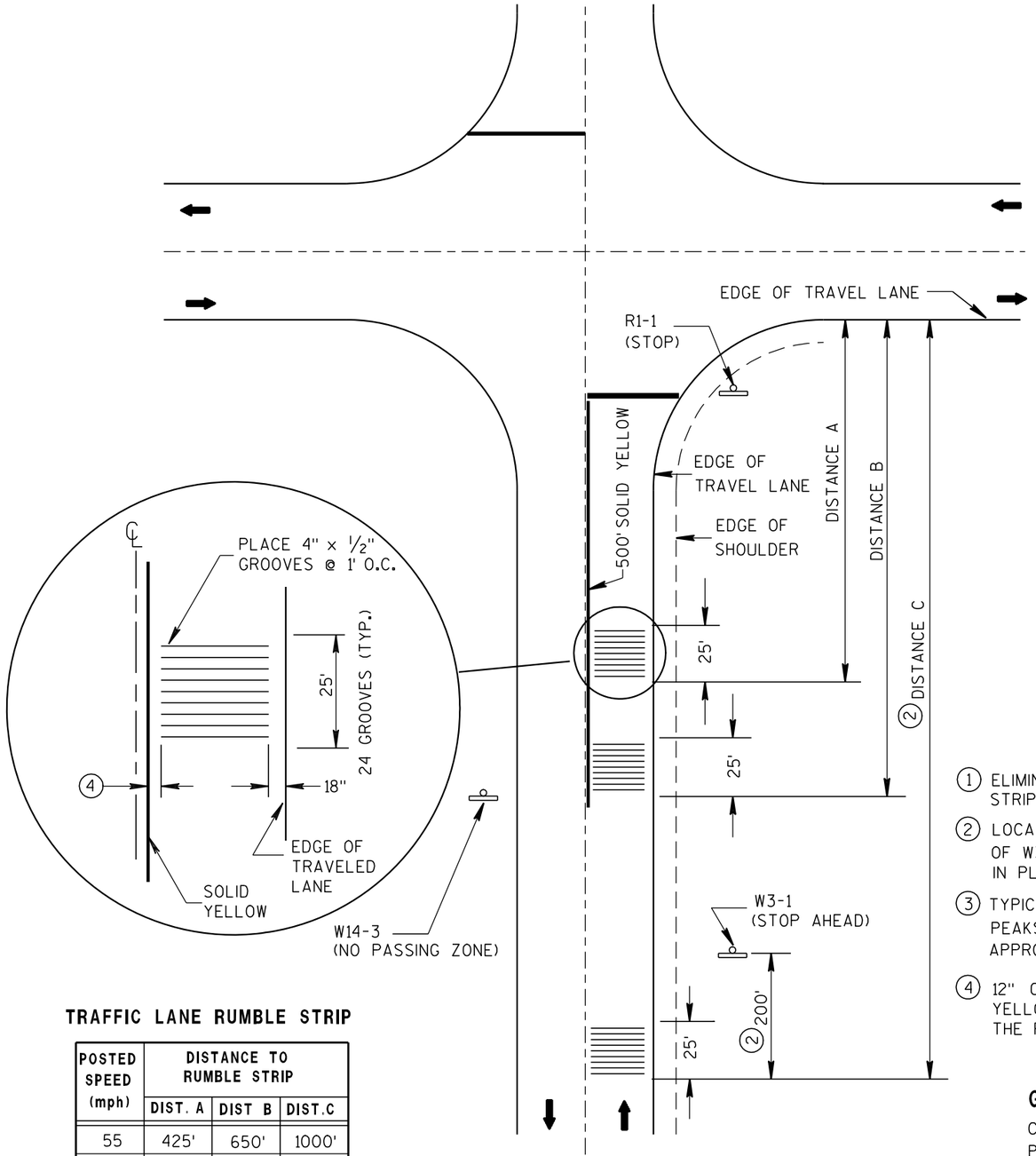
FHWA

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S.D.D. 13 A 5-5b

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S.D.D. 13 A 5-5b



ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

PLAN VIEW

RUMBLE STRIP LOCATION

TRAFFIC LANE RUMBLE STRIP

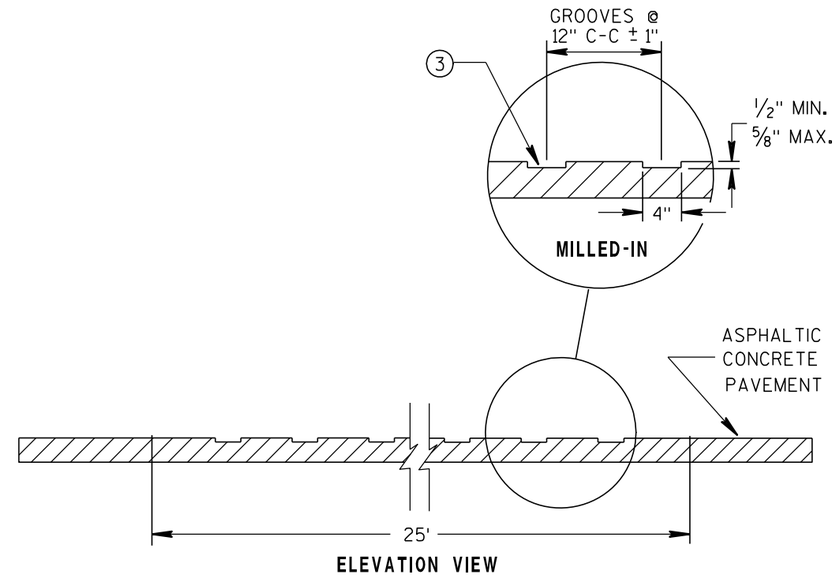
POSTED SPEED (mph)	DISTANCE TO RUMBLE STRIP		
	DIST. A	DIST B	DIST.C
55	425'	650'	1000'
50	325'	450'	800'
45	275'	400'	650'
40	225'	(1)	550'
35	175'	(1)	475'
≤ 30	125'	(1)	425'

(1) ELIMINATE THE MIDDLE SET OF RUMBLE STRIPS.

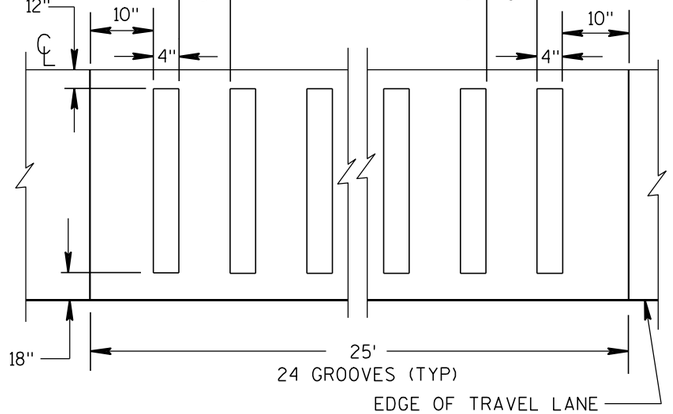
(2) LOCATE RUMBLE STRIP 200' IN ADVANCE OF W3-1 SIGN AS SHOWN. IF W3-1 IS NOT IN PLACE, USE DISTANCE C.

(3) TYPICAL VERTICAL VARIATION BETWEEN PEAKS AND VALLEYS WITHIN THE CUT APPROXIMATELY 1/16"

(4) 12" CLEAR BETWEEN THE SOLID YELLOW LINE AND THE EDGE OF THE RUMBLE.



ELEVATION VIEW



PLAN VIEW

ASPHALTIC PAVEMENT MILLED-IN

GENERAL NOTES

CONTRACTOR SHALL CONFIRM RUMBLE STRIP LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION. THE ENGINEER MAY MODIFY THE RUMBLE STRIP LOCATION AS FIELD CONDITIONS DICTATE.

WHEN ASPHALTIC PAVEMENT IS NEW IN THE RUMBLE AREA THE CONTRACTOR SHALL ALLOW THE PAVEMENT TO CURE A MINIMUM OF 7 DAYS PRIOR TO RUMBLE INSTALLATION.

PAVEMENT MARKING AND SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

ASPHALTIC RUMBLE STRIPS AT INTERSECTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/17/2011
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS 1807
ENGINEER

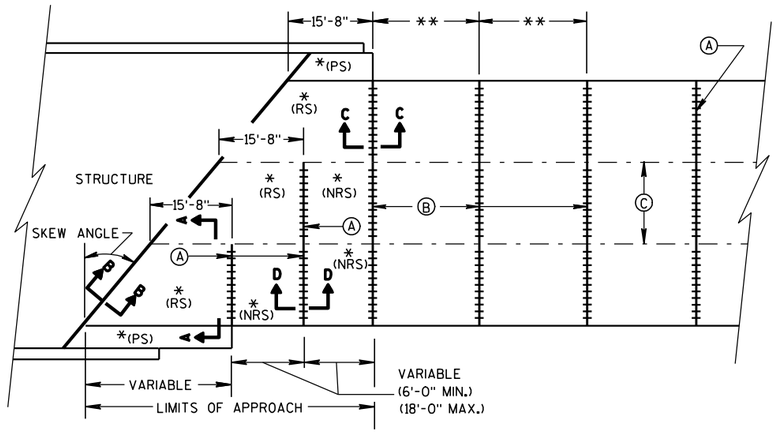
FHWA

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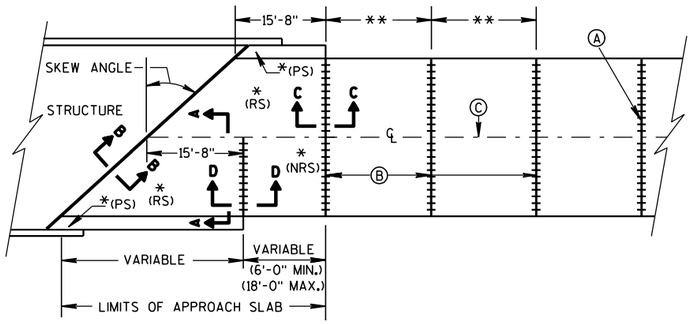
S.D.D. 13 A 8-1

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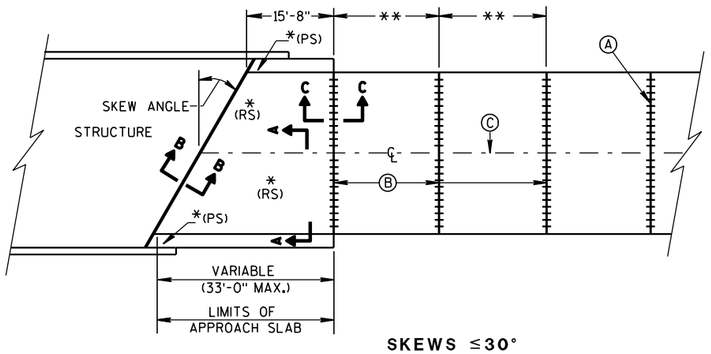
S.D.D. 13 A 8-1



SKEWED APPROACH
(PAVEMENT MORE THAN 2 LANES)



SKEWS >30°
(PAVEMENT WIDTH ≤30')



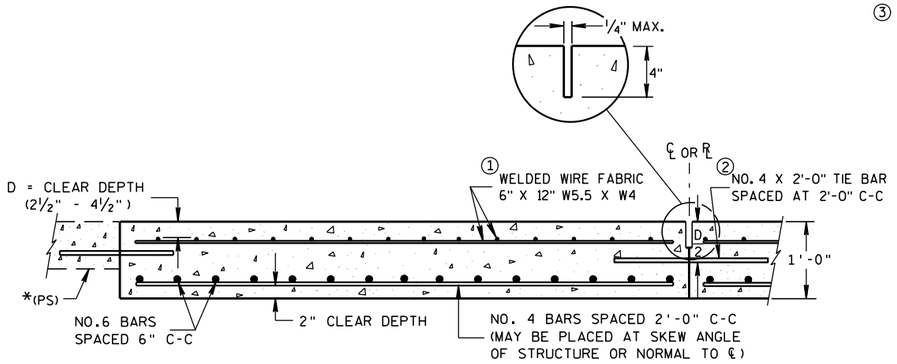
SKEWS ≤30°
(PAVEMENT WIDTH ≤30')

APPROACH SLAB AND ADJACENT PAVEMENT

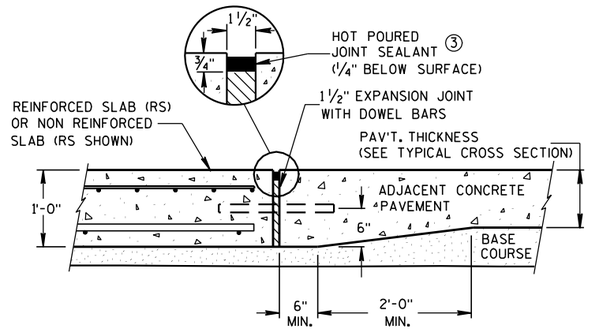
*(RS) = REINFORCED CONCRETE SLAB
*(PS) = PAVED CONCRETE SHOULDER: CONCRETE PAVEMENT, OR CONCRETE SURFACE DRAIN
(SEE DETAILS ELSEWHERE IN THE PLAN)
*(NRS) = NON-REINFORCED CONCRETE SLAB

**STANDARD TRANSVERSE JOINT SPACING
(SEE SDD 13C4, SDD 13C11, & SDD 13C13)

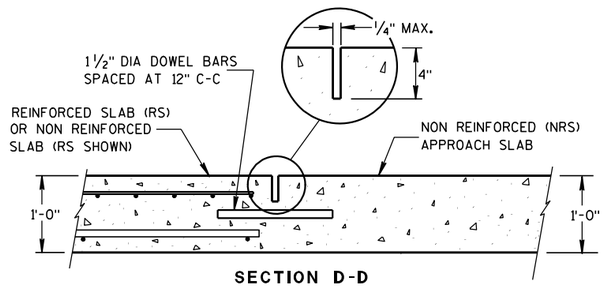
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄
(B) 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄
(C) STANDARD LONGITUDINAL JOINT AND TIE BARS.



SECTION A-A
REINFORCEMENT POSITIONING DETAIL



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



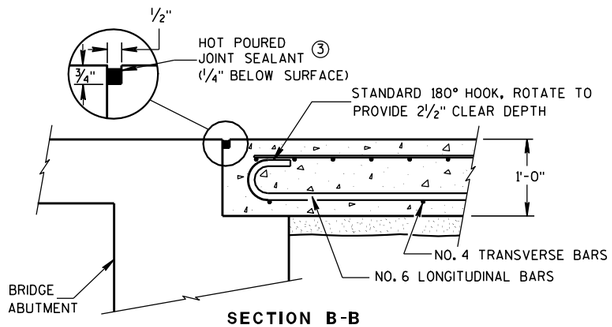
SECTION D-D
CONTRACTION JOINT

GENERAL NOTES

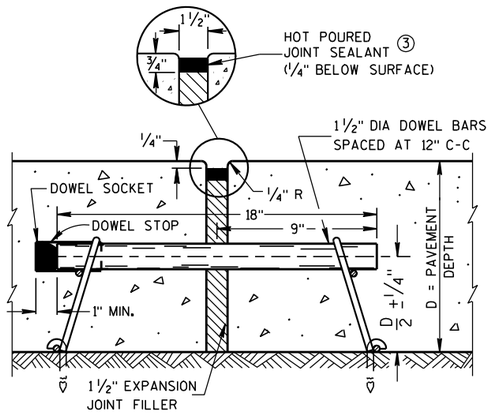
APPROACH SLABS ABUTTING AN HMA PAVEMENT OVER BASE COURSE DO NOT NEED TO BE DOWELED.

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

1. THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.
2. THE CONTRACTOR MAY OMIT TIE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.
3. USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.



SECTION B-B
BEND DETAIL
BOTTOM REINFORCEMENT

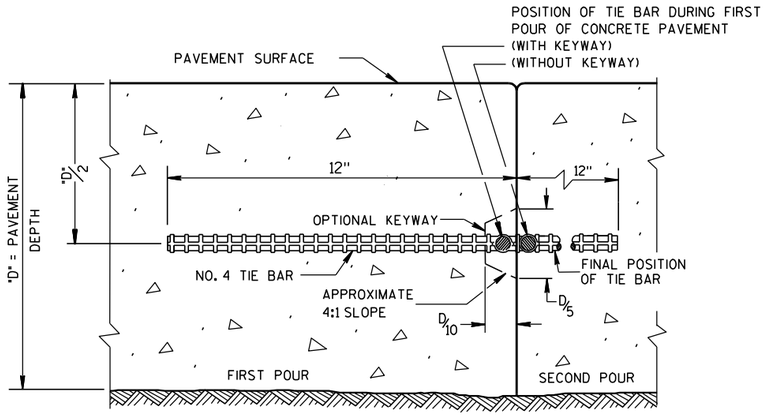


EXPANSION JOINT

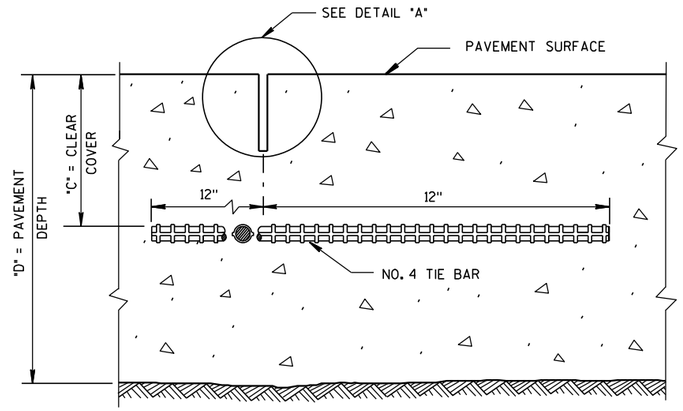
CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/11/2009
DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE 808 NEER
FHWA



CONSTRUCTION JOINT



SAWED JOINT

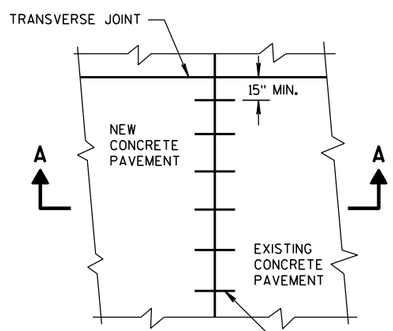
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

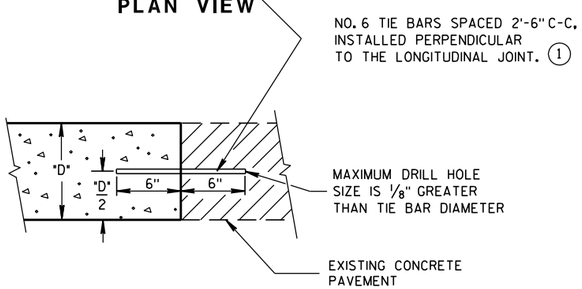
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

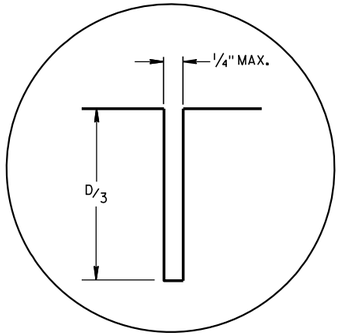
(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

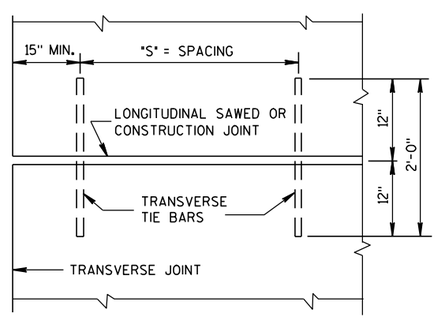


SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"

PAVEMENT DEPTH "D"	CLEAR COVER "C"	MAXIMUM TIE BAR SPACING "S"	
		PAVEMENT WIDTH	
		24' OR 26'	≥ 30'
6, 6 1/2"	3" ± 1/2"	48"	42"
7, 7 1/2"	3 1/4" ± 1"	45"	36"
8, 8 1/2"	3 3/4" ± 1"	39"	30"
9, 9 1/2"	4 1/4" ± 1"	33"	27"
10, 10 1/2"	4 3/4" ± 1"	30"	24"
11, 11 1/2"	5 1/4" ± 1"	27"	21"
12"	5 3/4" ± 1"	24"	21"



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10-5-2010 DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER

FHWA

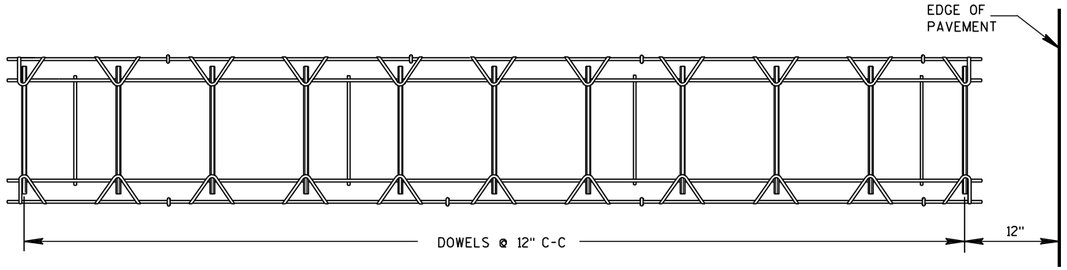
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S.D.D. 13 C 1-15

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S.D.D. 13 C 1-15

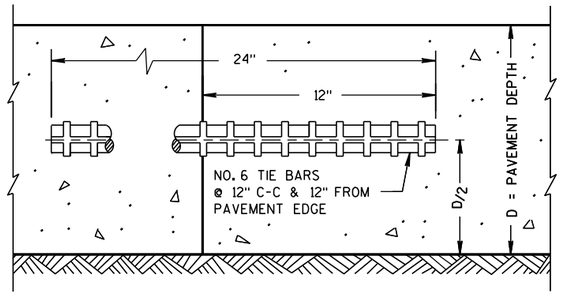


PLAN VIEW



SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



TRANSVERSE CONSTRUCTION JOINT

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, CENTER THE DOWEL ASSEMBLY ACROSS THE LANES. LOCATE THE INNER AND OUTER MOST DOWEL BARS SO THAT THE CENTER OF THE BARS ARE A MINIMUM OF 6 INCHES AND A MAXIMUM OF 12 INCHES FROM THE LONGITUDINAL JOINT AND THE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

① THE ENGINEER MAY APPROVE THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. THE CONTRACTOR MAY USE MECHANICAL DOWEL BAR INSERTERS INSTEAD OF DOWEL ASSEMBLIES.

② ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

③ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

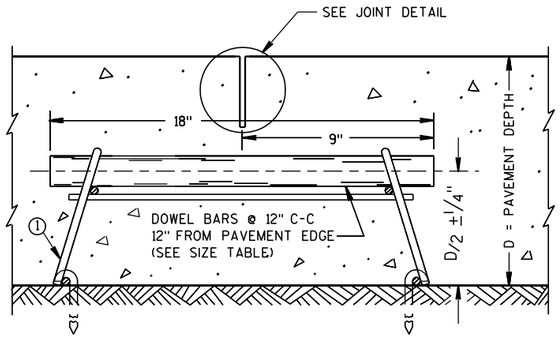
④ SPACE DOWEL BARS INSTALLED BY DRILLING 1'-3" ON CENTER. CENTER THE GROUPING OF DOWEL BARS INSIDE THE SLAB BASED ON ALL THE FOLLOWING SITUATIONS:

BETWEEN THE EDGES OF PAVEMENTS WITHOUT LONGITUDINAL JOINTS OR BETWEEN THE EDGE OF PAVEMENT AND NEAREST LONGITUDINAL JOINT OR BETWEEN TWO ADJACENT LONGITUDINAL JOINTS.

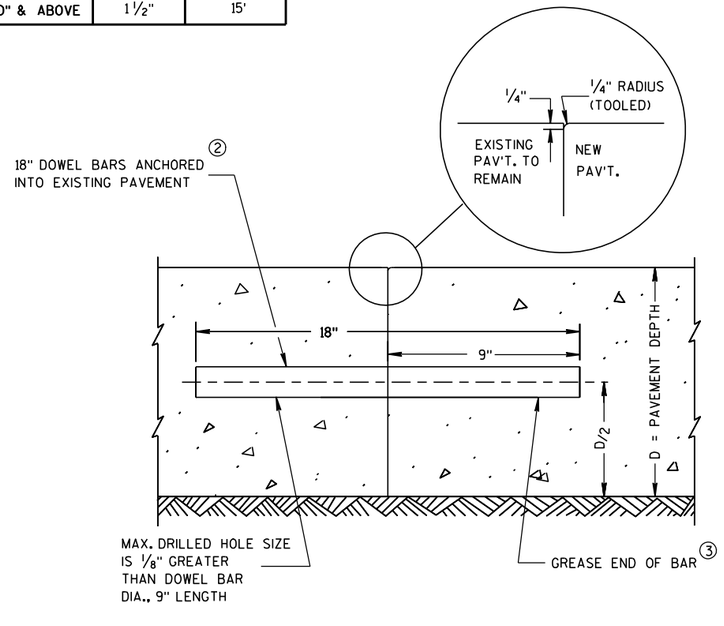
⑤ SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7",7 1/2"	1"	14'
8",8 1/2"	1 1/4"	15'
9",9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'

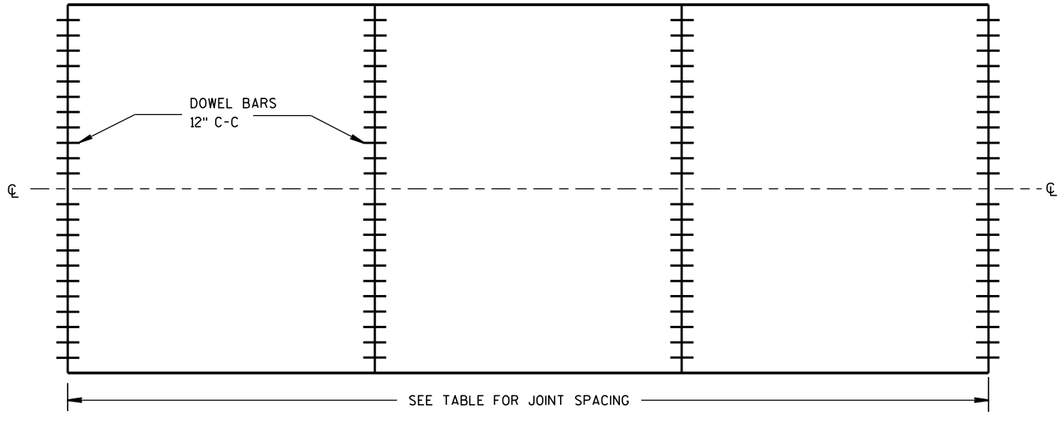


DOWELED CONTRACTION JOINT

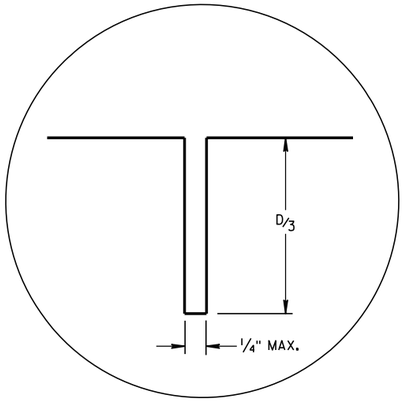


TRANSVERSE CONTRACTION JOINTS ABUTTING EXISTING PAVEMENT

④ DOWEL BAR DETAIL



CONTRACTION JOINT LOCATIONS



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/11/2009 DATE
/S/ Deb Bischoff PAVEMENT POLICY & DESIGN MANAGER
FHWA

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S.D.D. 13 C 13-7

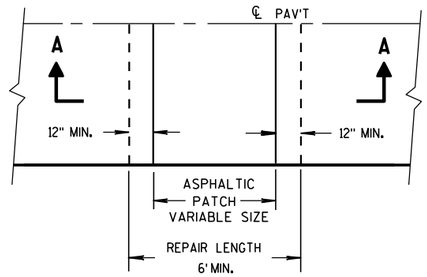
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES. ADDITIONAL SAW CUTS ARE NOT PAID FOR BY THE DEPARTMENT.

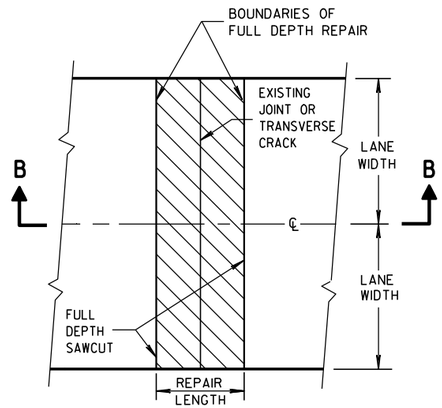
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

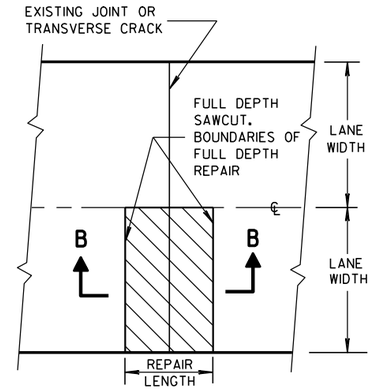
(1) DOWEL BARS MIGHT NOT EXIST.



PLAN VIEW



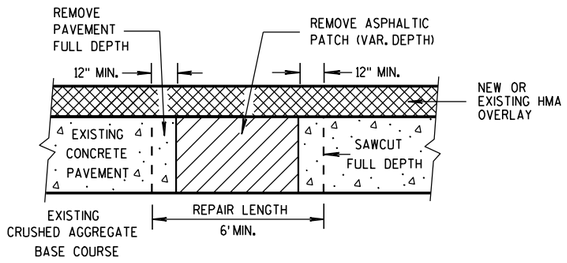
PLAN VIEW
(DOUBLE LANE REPAIR)



PLAN VIEW
(SINGLE LANE REPAIR)

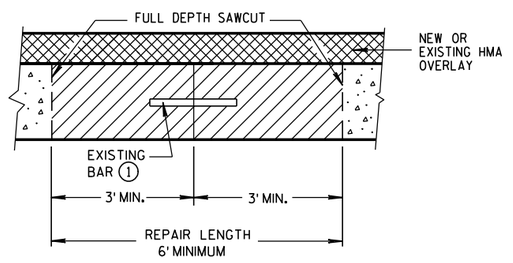
FULL DEPTH CONCRETE PAVEMENT REMOVAL

(SEE NOTE)



SECTION A-A

HMA PATCH REMOVAL



SECTION B-B

CONCRETE REMOVAL

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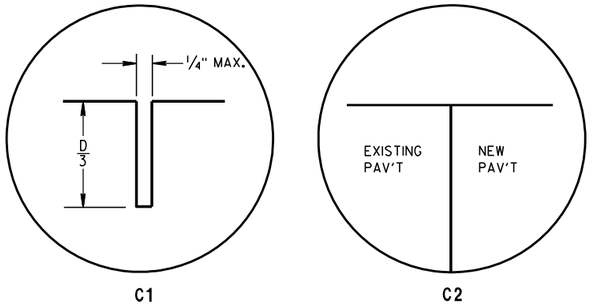
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S.D.D. 13 C 14-4a

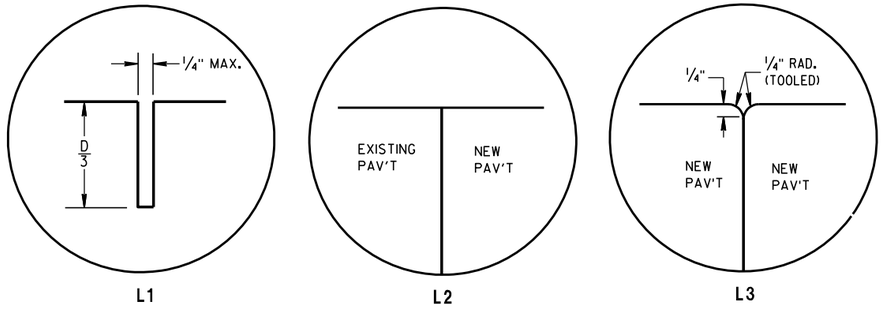
S.D.D. 13 C 14-4a

BASE PATCHING CONCRETE

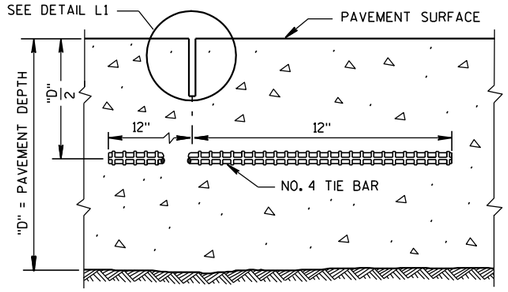
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



TRANSVERSE JOINTS

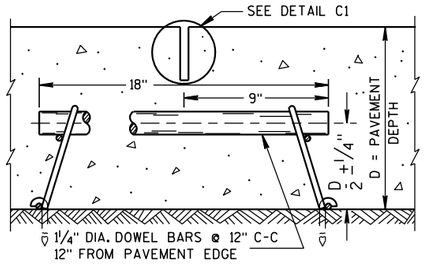


LONGITUDINAL JOINTS



SECTION C-C

SAWED LONGITUDINAL JOINT



SECTION F-F

CONTRACTION JOINT

GENERAL NOTES

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

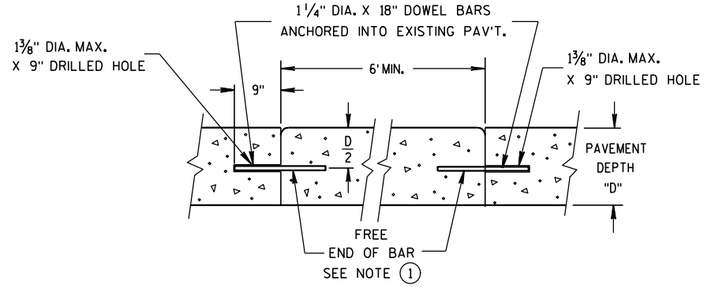
CONCRETE BASE PATCHES OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

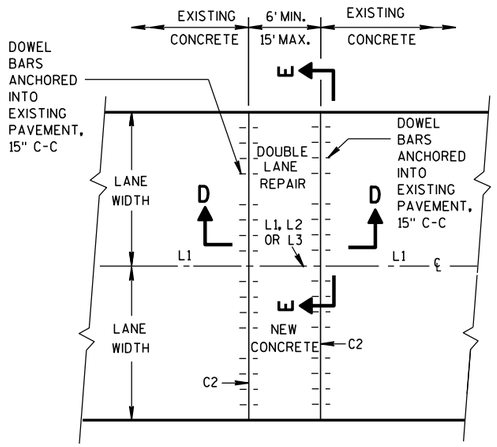
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 24 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

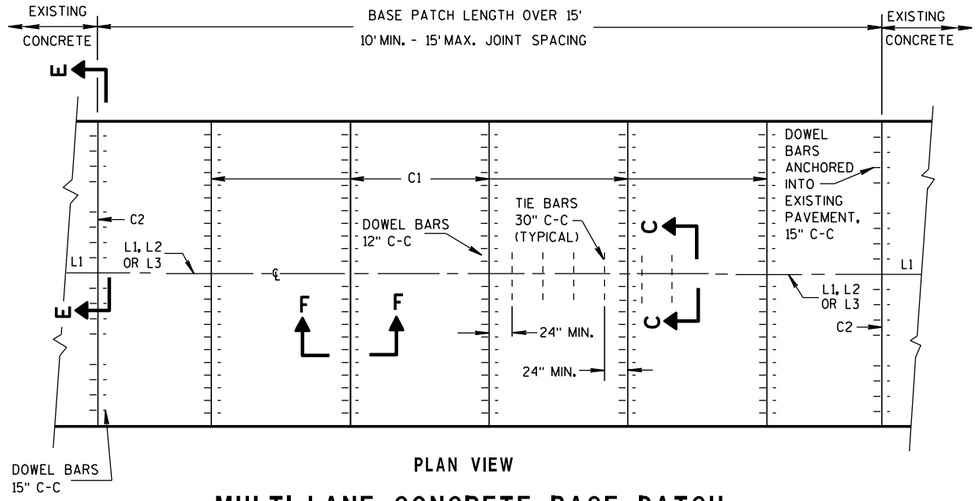


SECTION D-D



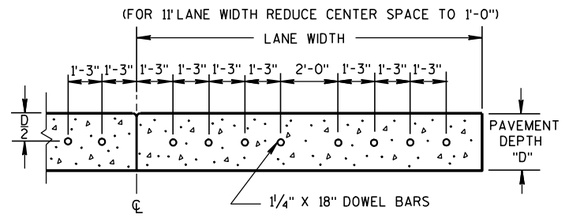
PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

MULTI-LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

BASE PATCHING CONCRETE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 13 C 14-4b

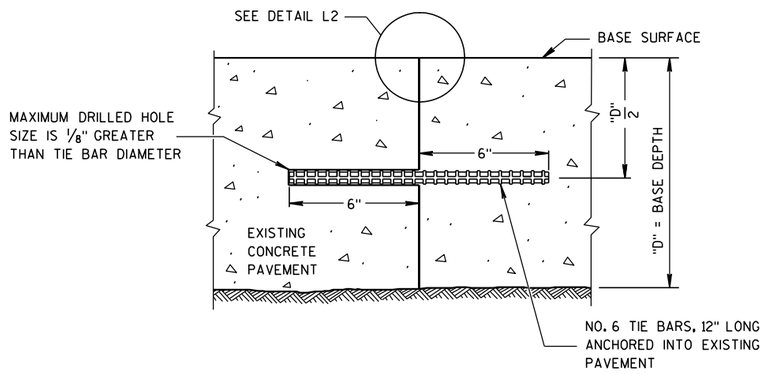
6

S.D.D. 13 C 14-4b

GENERAL NOTES

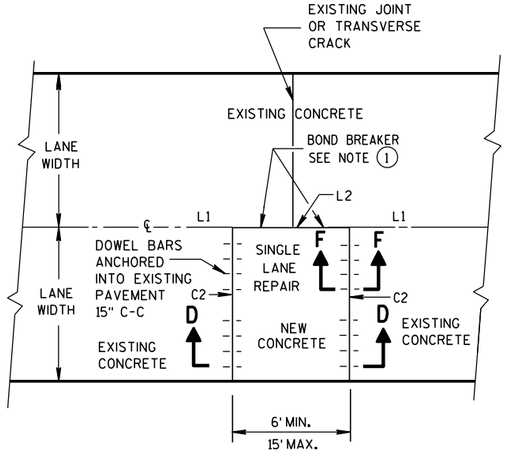
(1) USE AN ENGINEER-APPROVED BOND BREAKER FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.

(2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES AND TO SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.



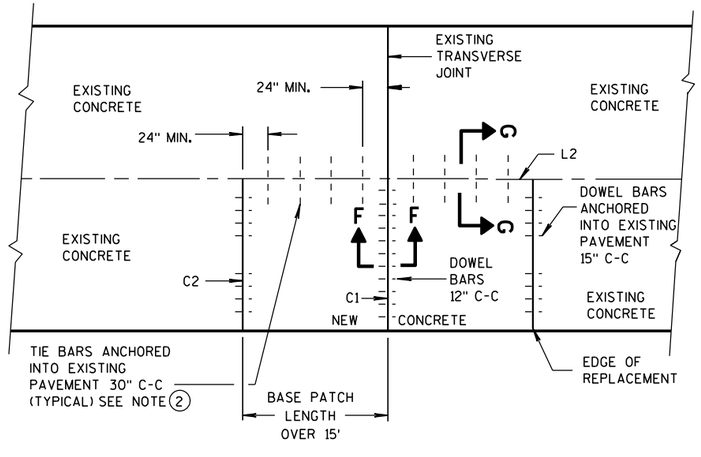
SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW

SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW

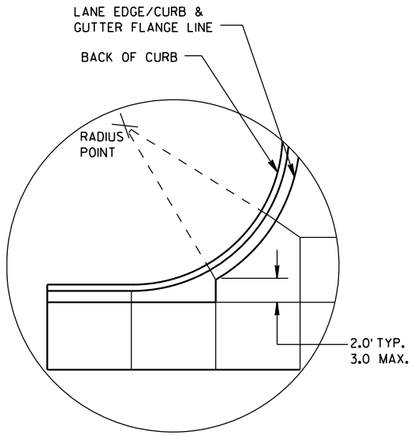
SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

BASE PATCHING CONCRETE

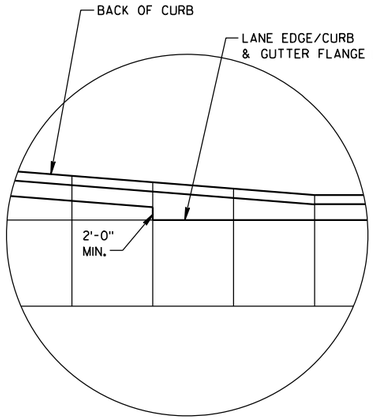
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12-11-2009 DATE
/S/ Deb Bischoff PAVEMENT POLICY & DE NEER
FHWA

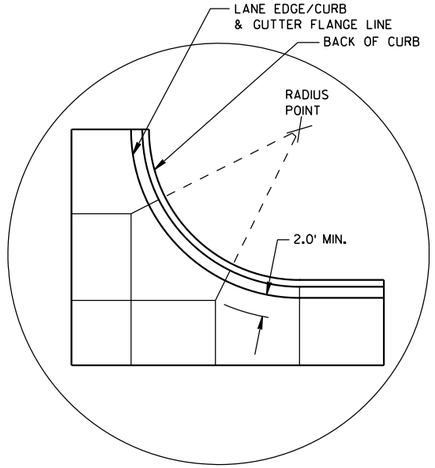
6
S.D.D. 13 C 14-4c



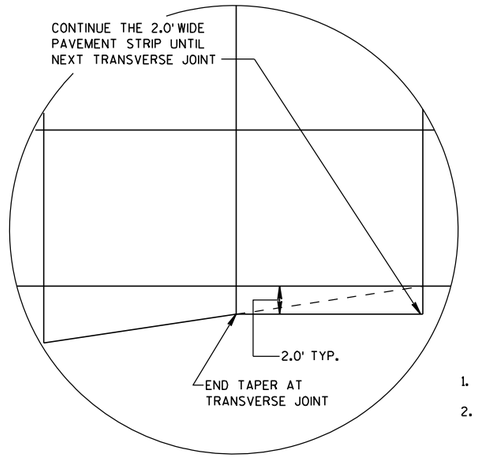
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

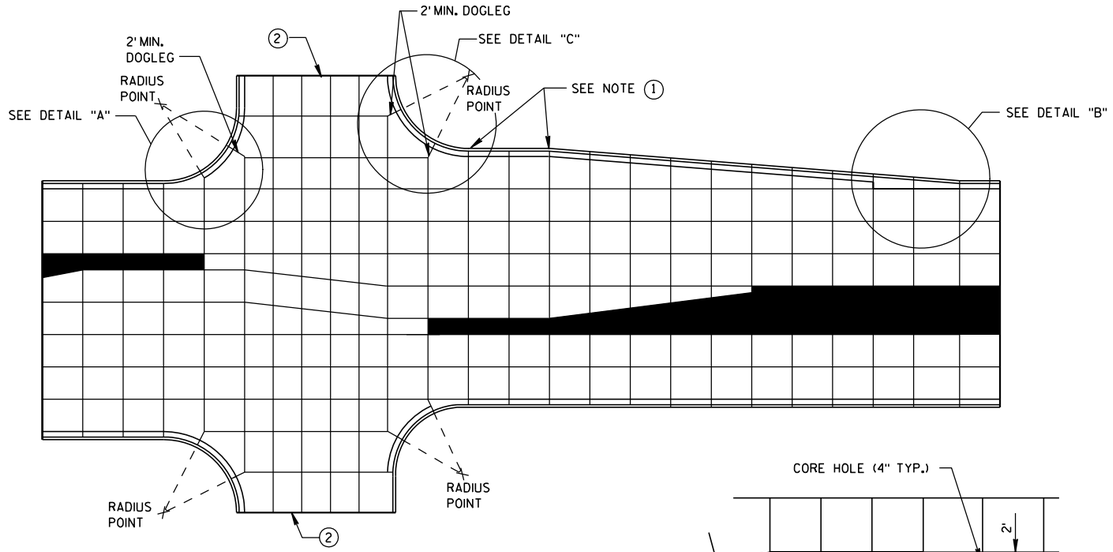
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

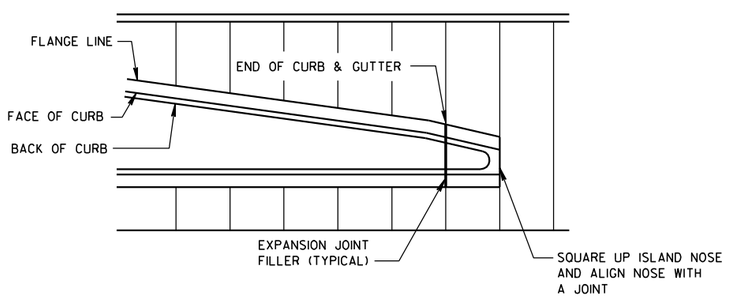
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



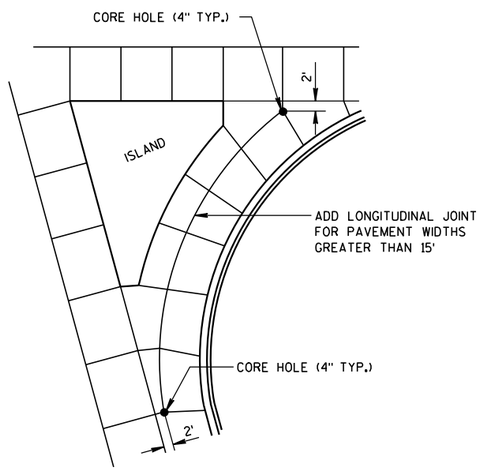
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

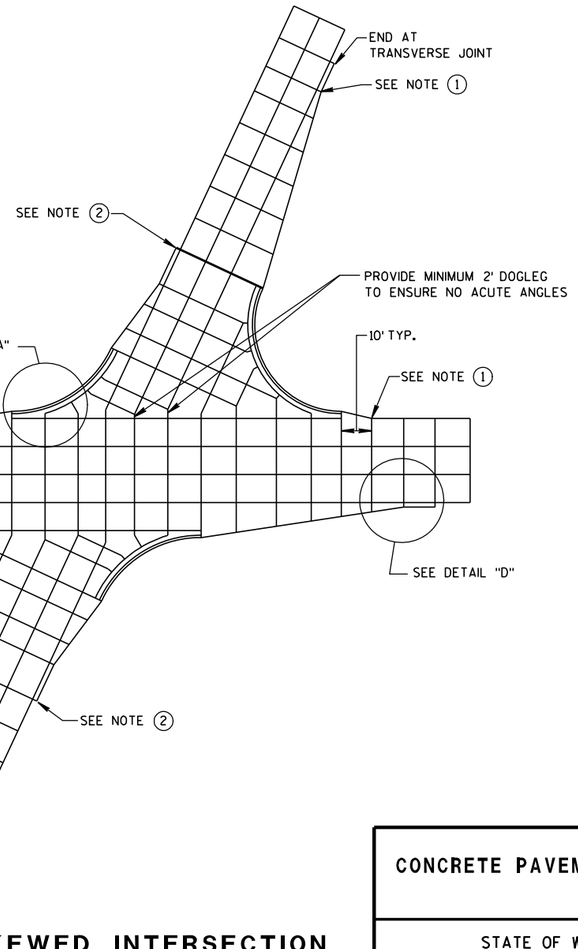
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



APPROACH TO MEDIAN



LARGE RIGHT TURN



SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

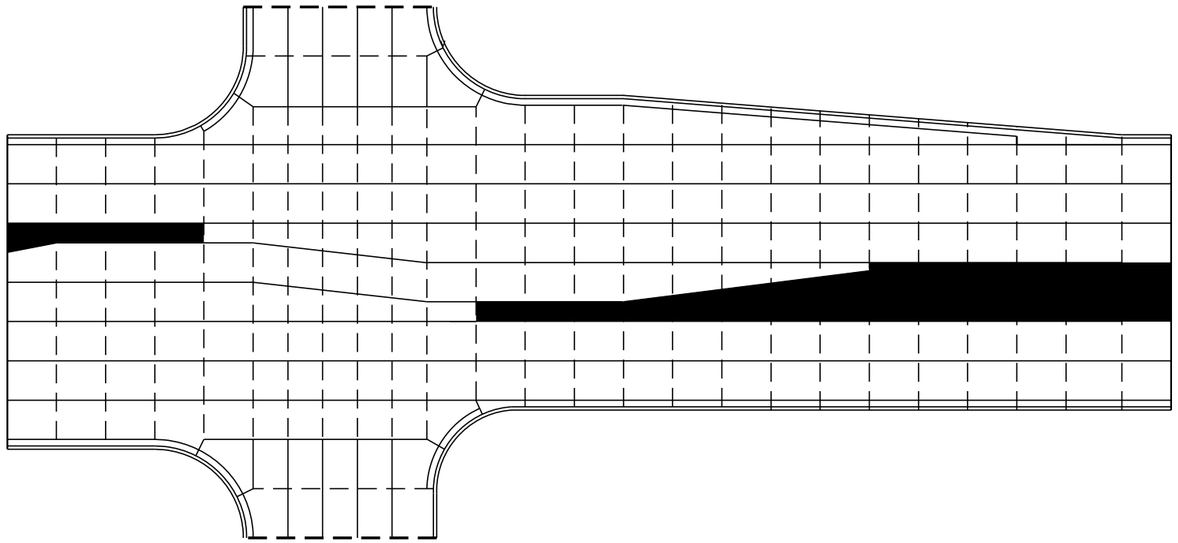
S.D.D. 13 C 18-1a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

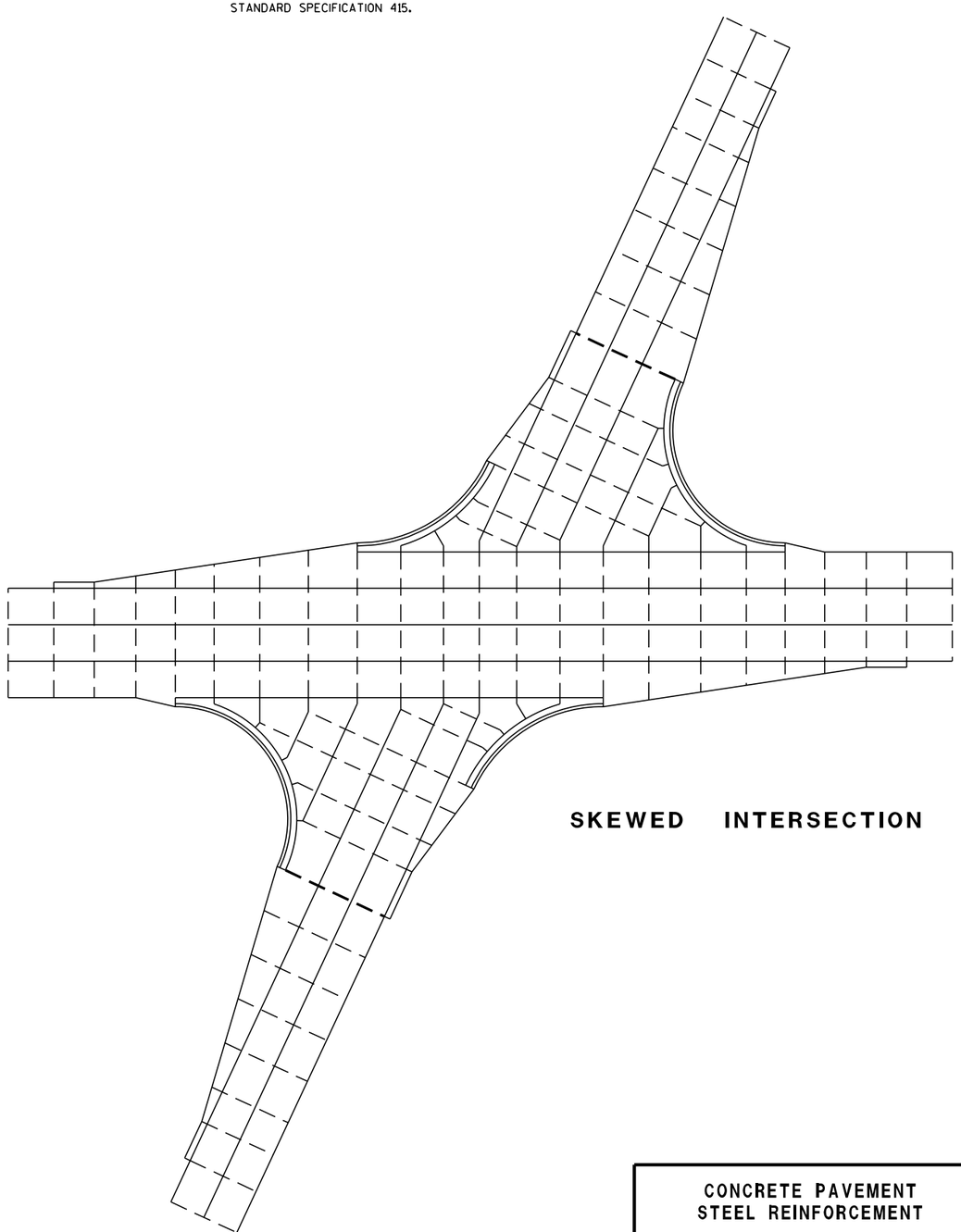
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

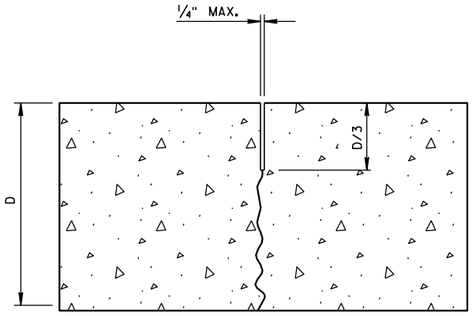
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S.D.D. 13 C 18-1b

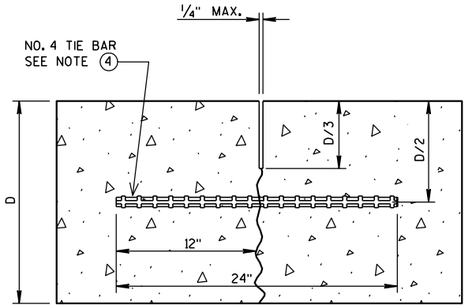
S.D.D. 13 C 18-1b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



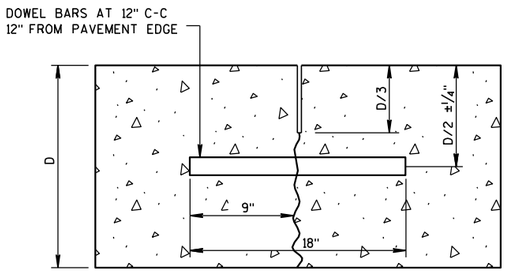
UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

GENERAL NOTES

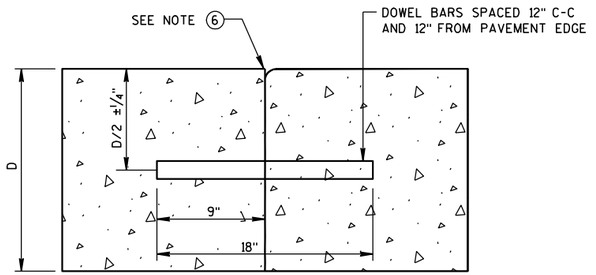
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.
4. SPACE TIE BARS AT LONGITUDINAL CONSTRUCTION OR CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C1.
5. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
6. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.



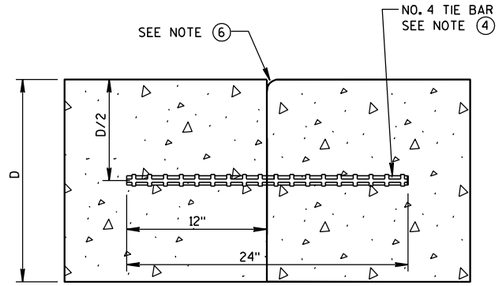
DOWELED-TRANSVERSE

CONTRACTION JOINTS

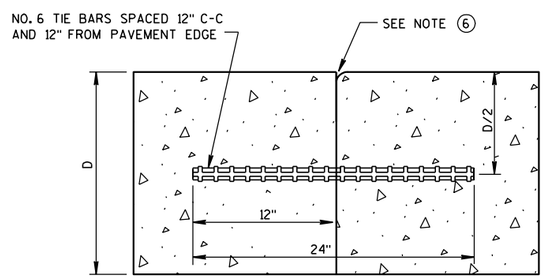
SEE NOTE (2)



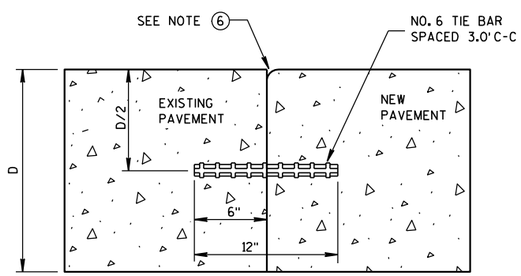
DOWELED TRANSVERSE



TIED LONGITUDINAL



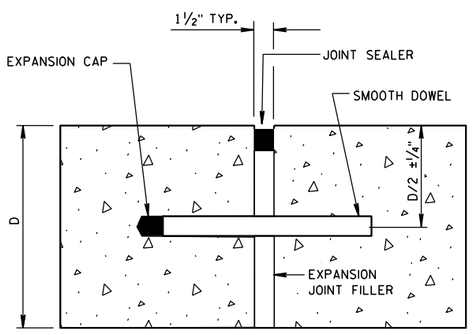
TIED TRANSVERSE
SEE NOTE (3)



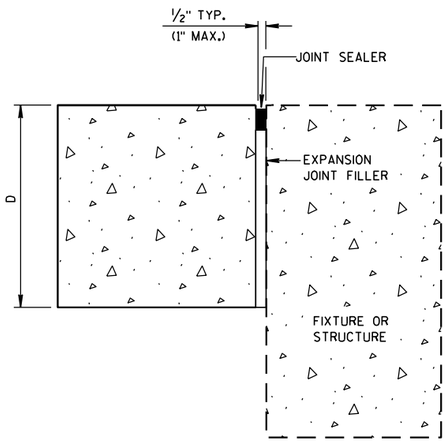
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS

SEE NOTE (5)



DOWELED-TRANSVERSE
SEE NOTE (1)



UNTIED-LONGITUDINAL

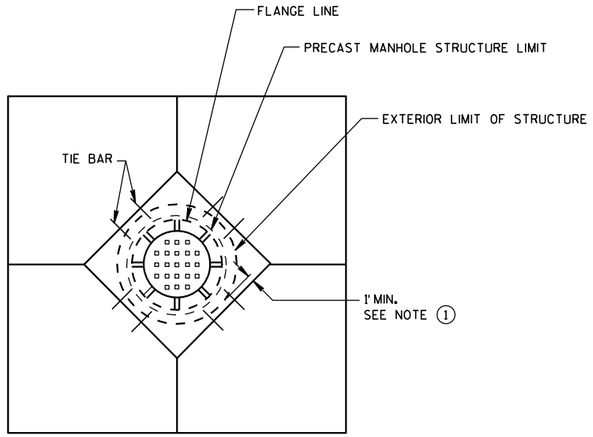
EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

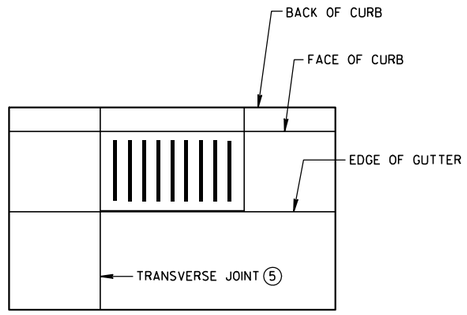
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

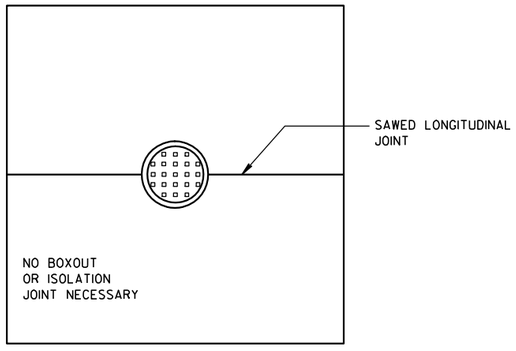
S.D.D. 13 C 18-1c



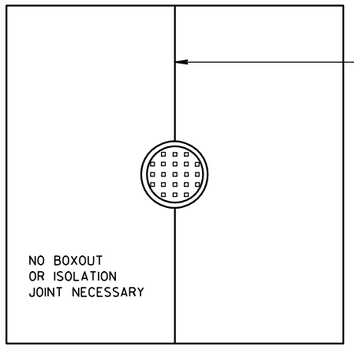
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



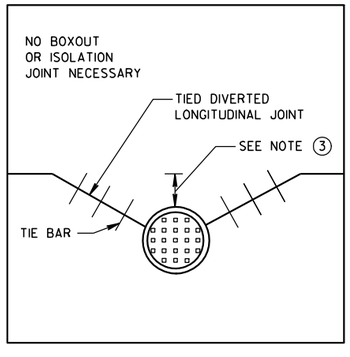
INLET WITH TRANSVERSE JOINT



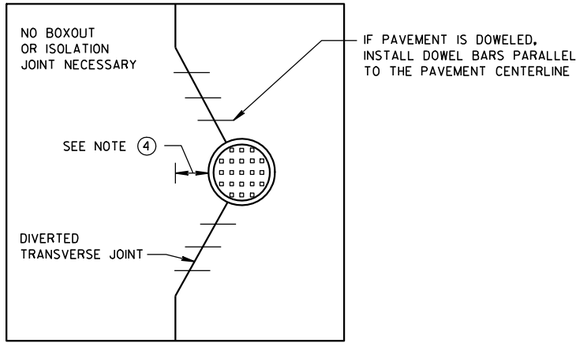
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

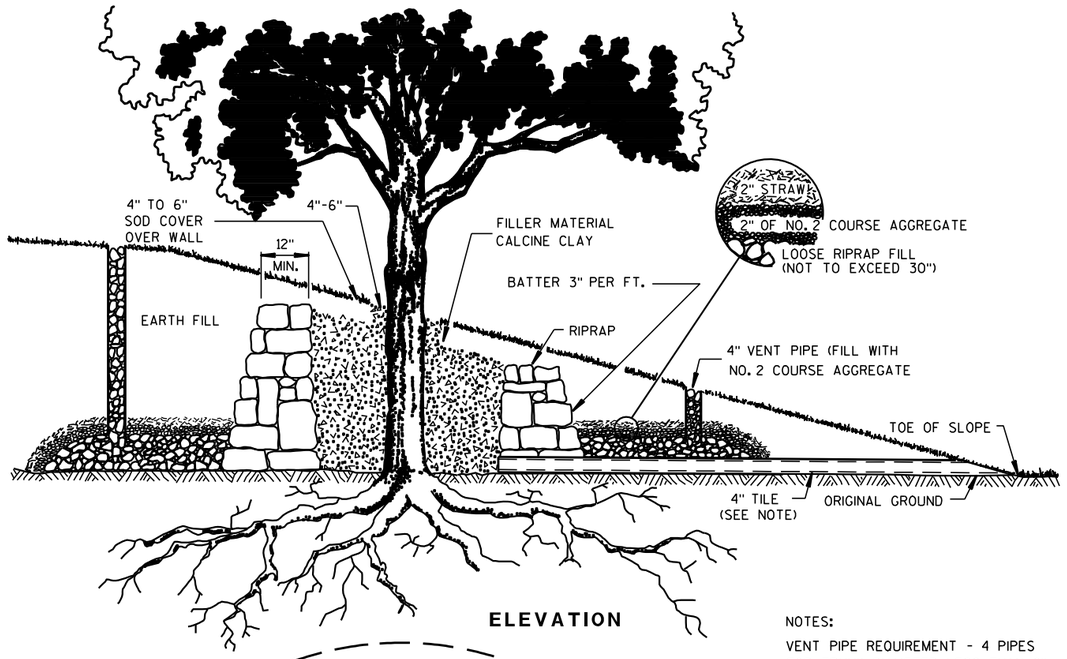
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS GREATER THAN 2 FEET, DO NOT DIVERT JOINT AND SAW LONGITUDINAL JOINT AS NORMAL. IF DISTANCE IS 2 FEET OR LESS, DIVERT LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE.
4. IF DISTANCE FROM THE EDGE OF MANHOLE TO THE NEAREST TRANSVERSE JOINT IS GREATER THAN 4 FEET, REDIRECT JOINT TO INTERSECT MANHOLE. IF DISTANCE IS 4 FEET OR LESS, PLACE REBAR REINFORCEMENT AROUND MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

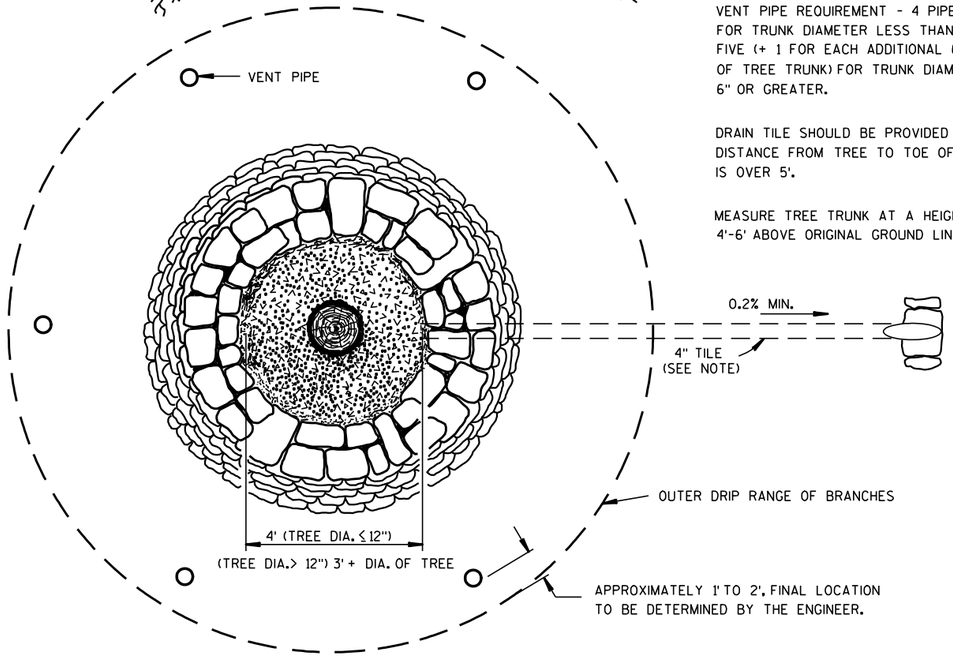
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-5-2010 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & D817 ENGINEER
FHWA

6
S.D.D. 13 C 18-1d



ELEVATION



PLAN

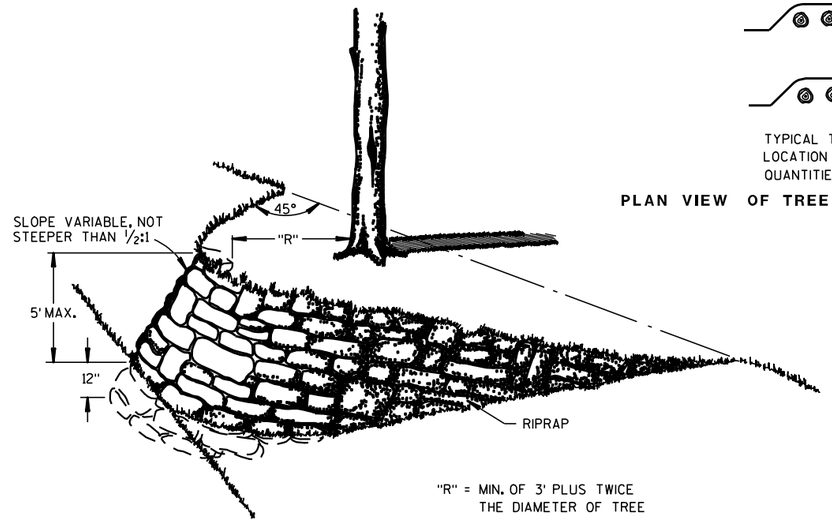
FULL TREE WELL WITH RIPRAP WALL

NOTES:

VENT PIPE REQUIREMENT - 4 PIPES FOR TRUNK DIAMETER LESS THAN 6". FIVE (+ 1 FOR EACH ADDITIONAL 6" OF TREE TRUNK) FOR TRUNK DIAMETER 6" OR GREATER.

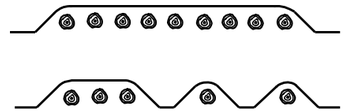
DRAIN TILE SHOULD BE PROVIDED IF DISTANCE FROM TREE TO TOE OF SLOPE IS OVER 5'.

MEASURE TREE TRUNK AT A HEIGHT 4'-6' ABOVE ORIGINAL GROUND LINE.



"R" = MIN. OF 3' PLUS TWICE THE DIAMETER OF TREE

DETAILS OF TREE ISLAND AND ROOT PROTECTION



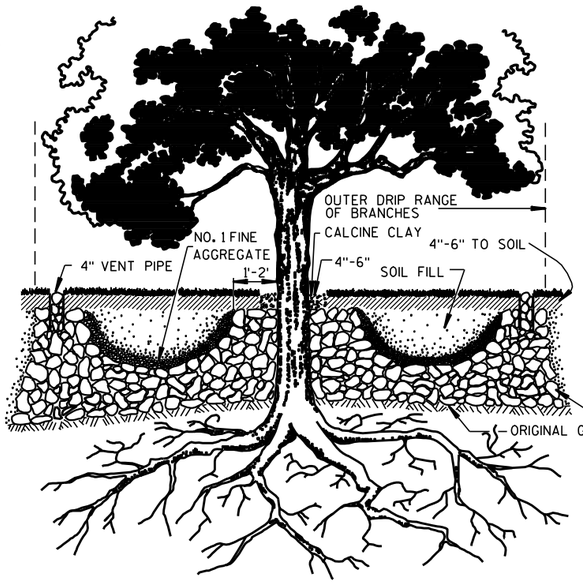
TYPICAL TREATMENTS OF ROOT PROTECTION. LOCATION SHOWN ON MISCELLANEOUS QUANTITIES SHEET.

PLAN VIEW OF TREE ISLANDS FOR ONE OR MORE TREES

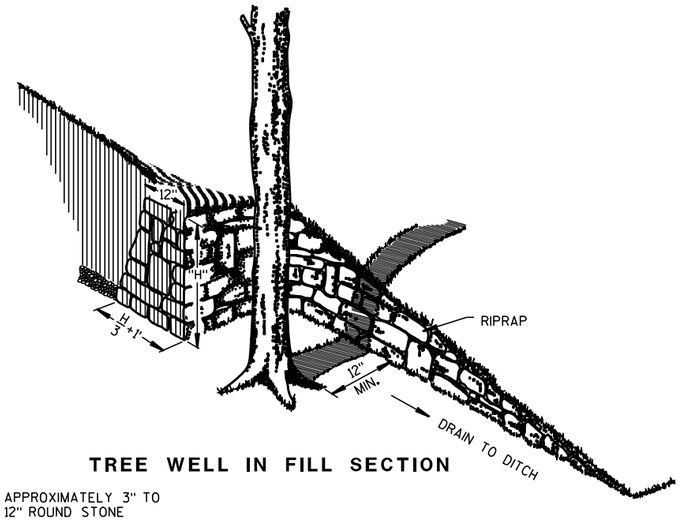
GENERAL NOTES

WALLS TO BE BUILT TO APPROXIMATE SHAPE AND DIMENSIONS SHOWN. STONE TO CONFORM TO SPECIFICATIONS FOR RIPRAP.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.



TREE WELL WITHOUT WALL



TREE WELL IN FILL SECTION

DETAILS FOR TREE WELLS

TREE PRESERVATION DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/25/76 DATE

/S/ D. L. Strand STATE DESIGN ENGINEER

818 WYS

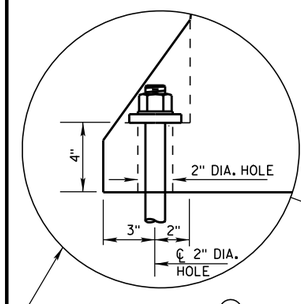
FHWA

6

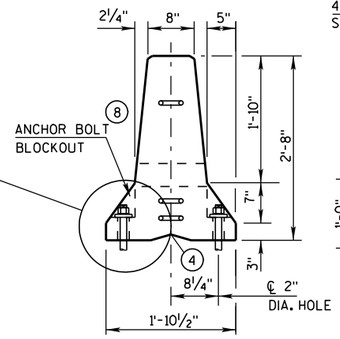
S.D.D. 14 A 1-3

6

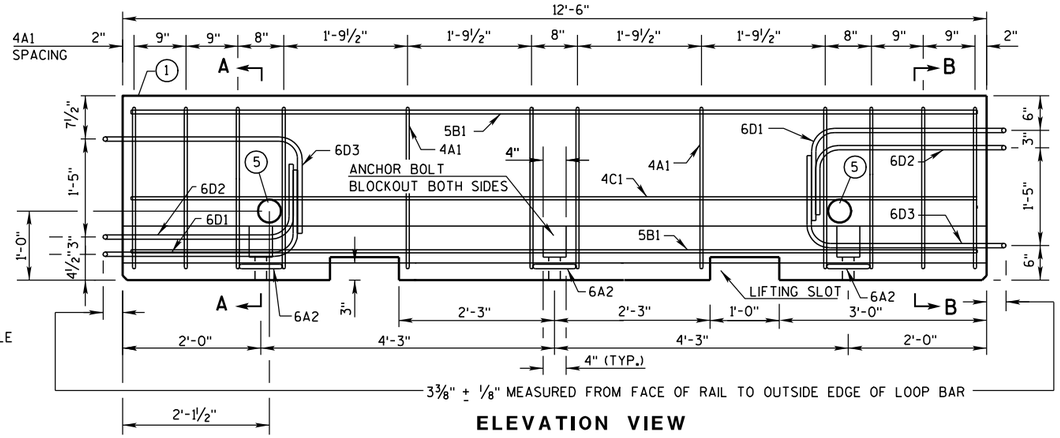
S.D.D. 14 A 1-3



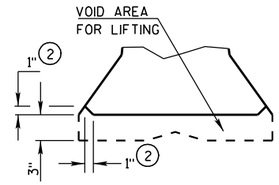
ANCHOR ON TRAFFIC SIDE (8) ONLY WHEN REQUIRED (SEE SHEET D FOR ADDITIONAL ANCHOR DETAIL)



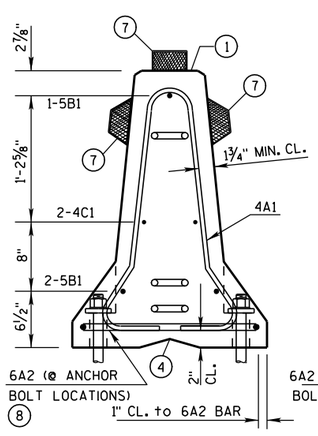
END VIEW



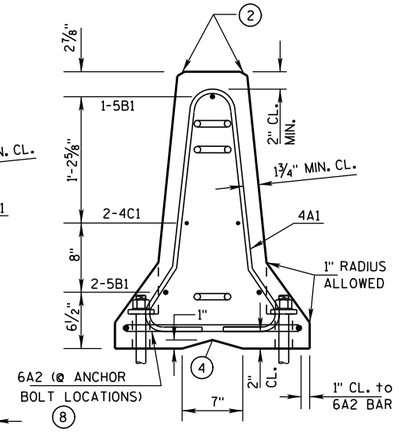
ELEVATION VIEW



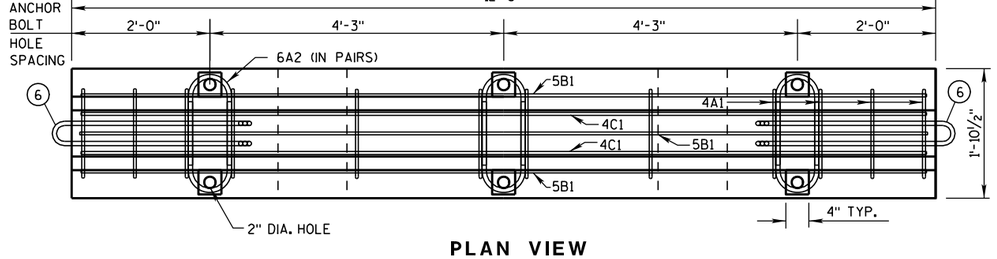
DETAIL "B"
LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)

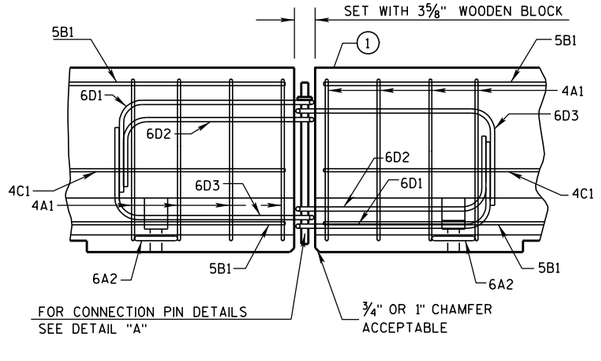


SECTION B-B
(STIRRUP PLACEMENT)

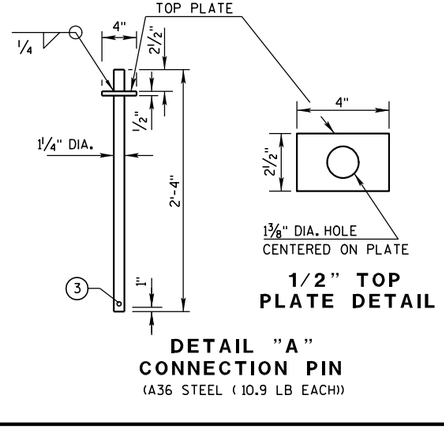


PLAN VIEW

DETAILS OF BARRIER SECTION

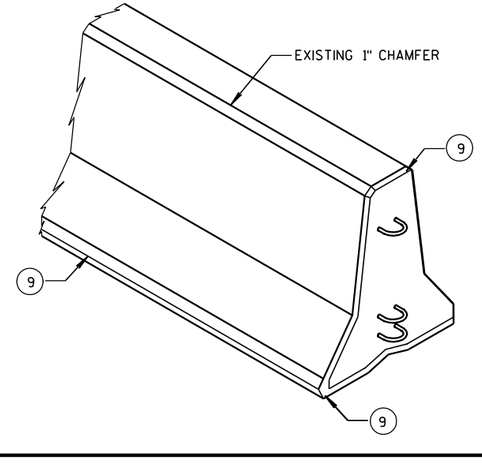


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-13(a) THRU 14B7-13(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR EPOXY ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WICBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

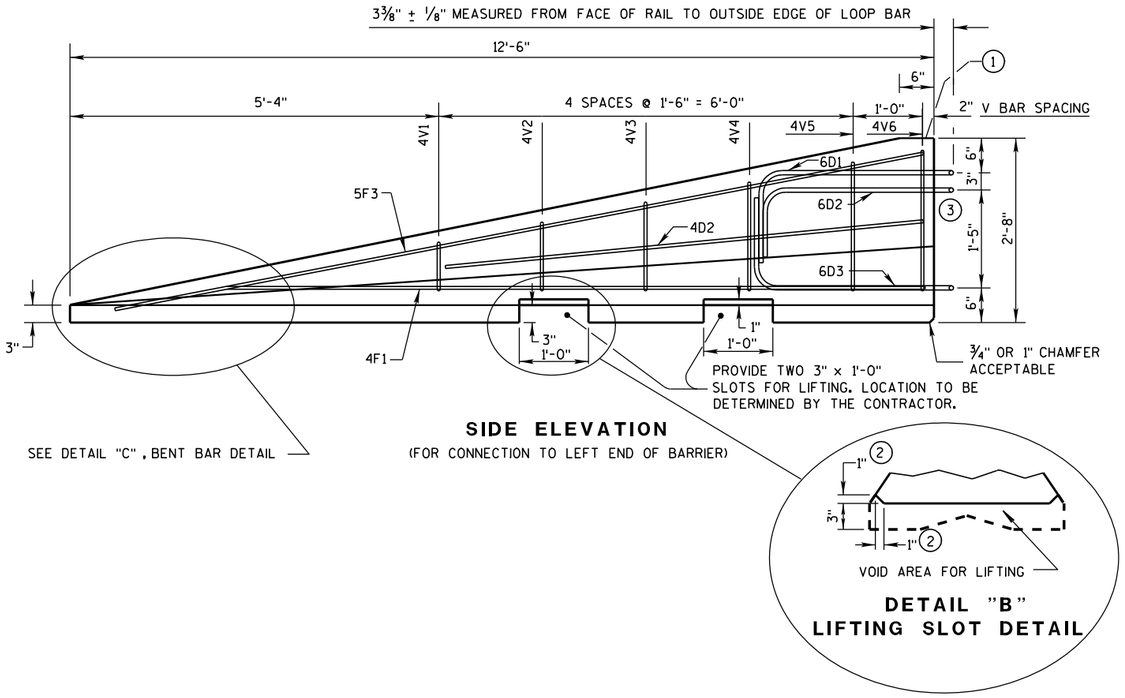
(8) SEE SHEET D FOR ANCHORING CRITERIA.

(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

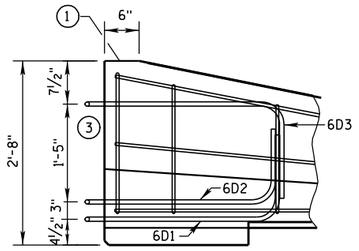
6
S.D.D. 14 B 7-13a



SIDE ELEVATION

(FOR CONNECTION TO LEFT END OF BARRIER)

DETAIL "B"
LIFTING SLOT DETAIL

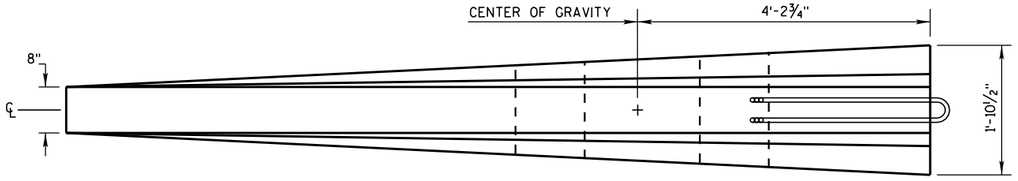


SIDE ELEVATION

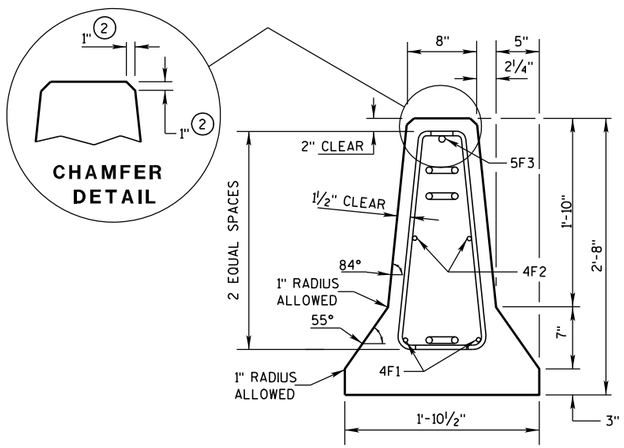
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

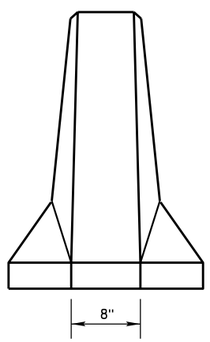
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



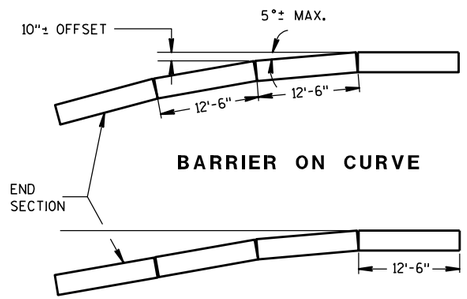
PLAN VIEW



END SECTION



FRONT ELEVATION



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

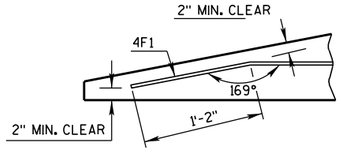
6

S.D.D. 14 B 7-13b

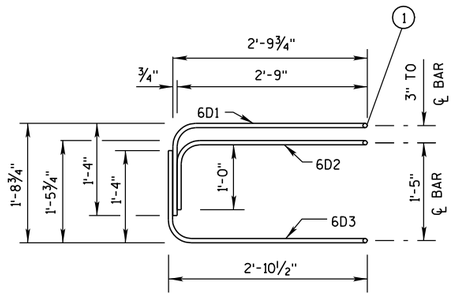
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

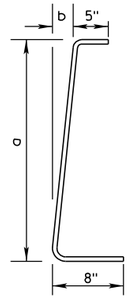
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



DETAIL "C"
BENT BAR DETAIL



ELEVATION
LOOP BAR ASSEMBLY



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

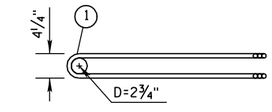
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

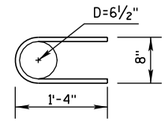
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

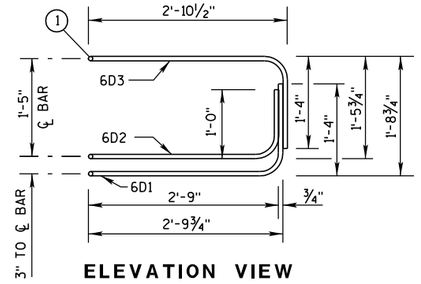
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



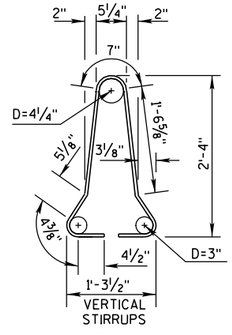
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



ELEVATION VIEW



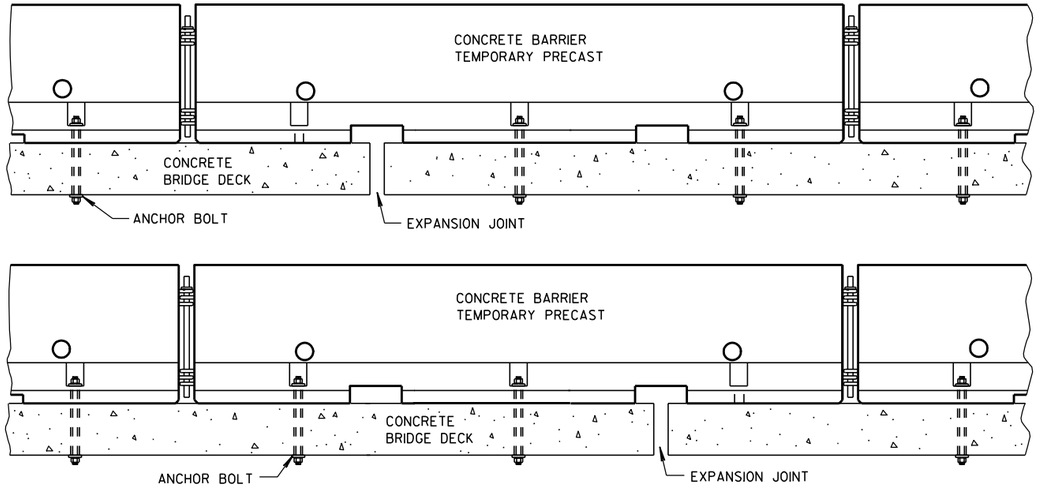
4A1

BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

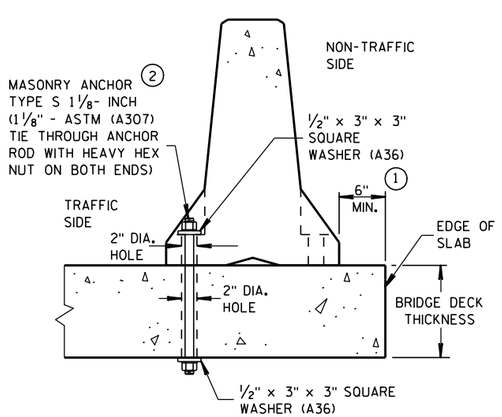
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 7-13c



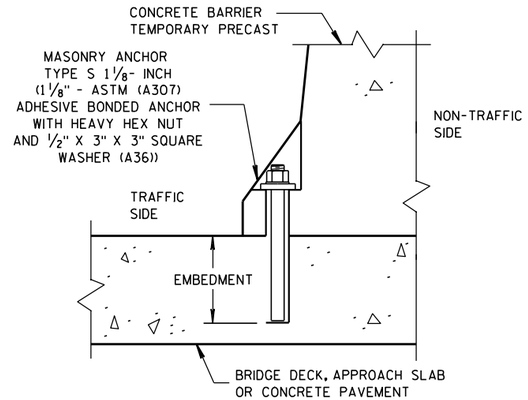
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

2

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

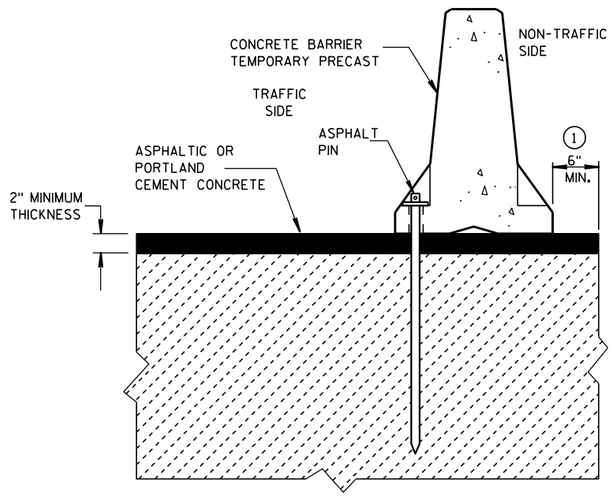
1. CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
   THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

   THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

2. ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

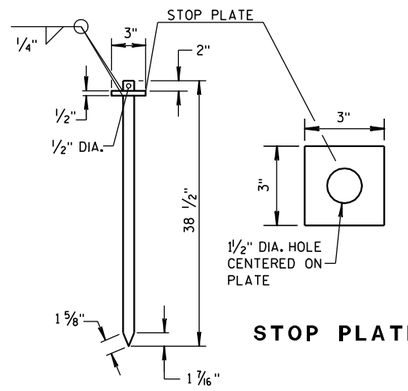
   WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

   UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

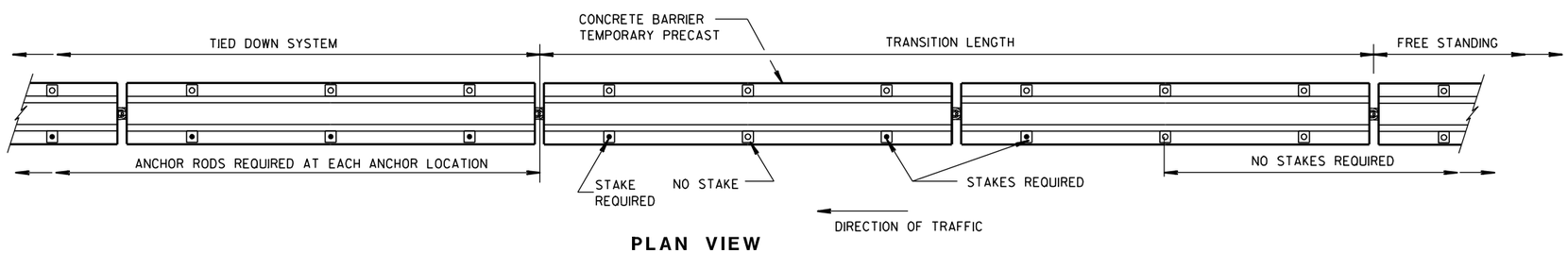
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN

(ASTM A36 STEEL)



PLAN VIEW

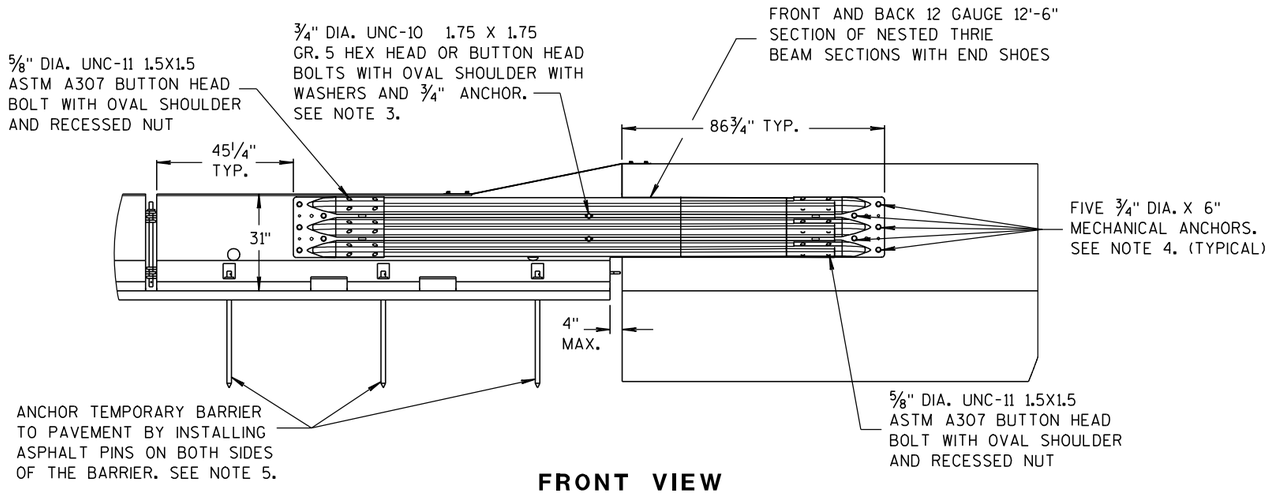
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

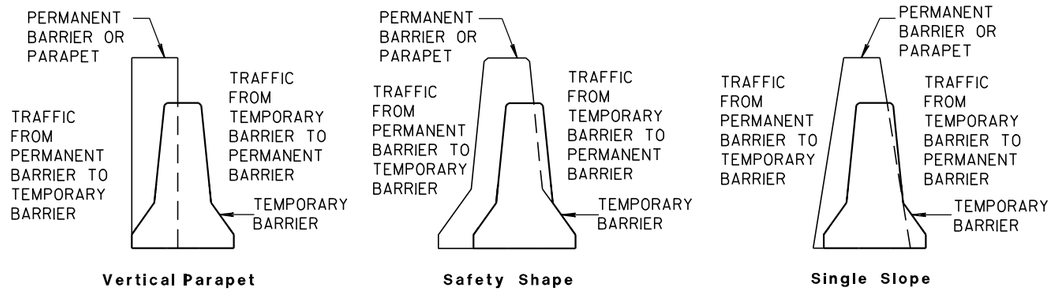
6
S.D.D. 14 B 7-13d



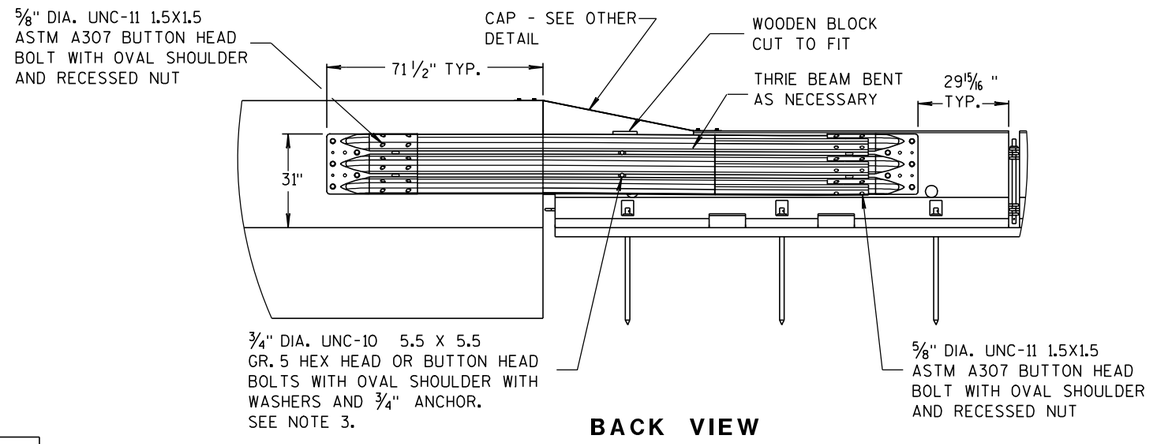
FRONT VIEW

NOTES

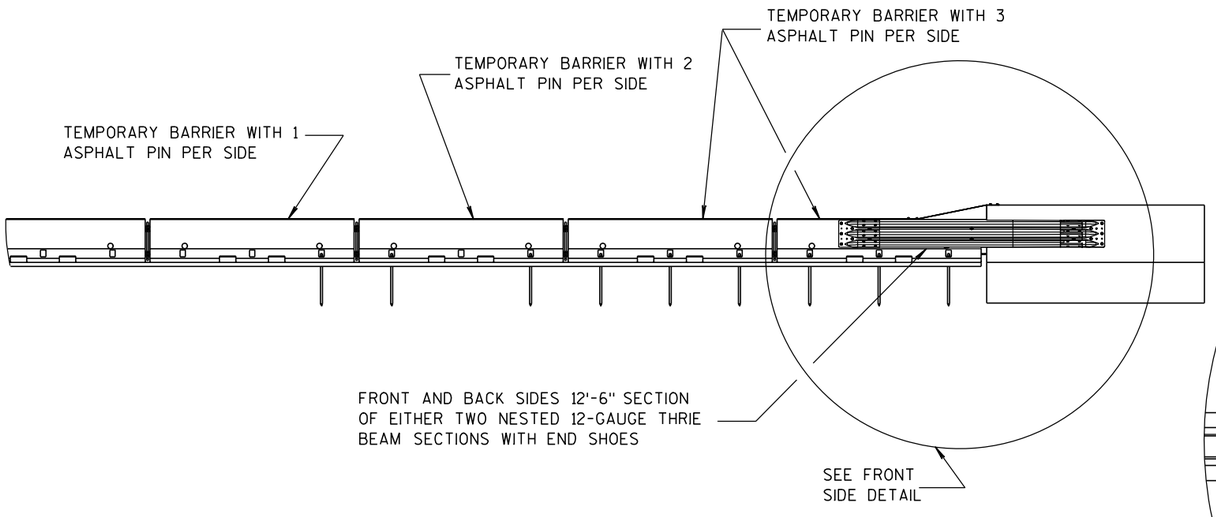
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15¼" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR EPOXY ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



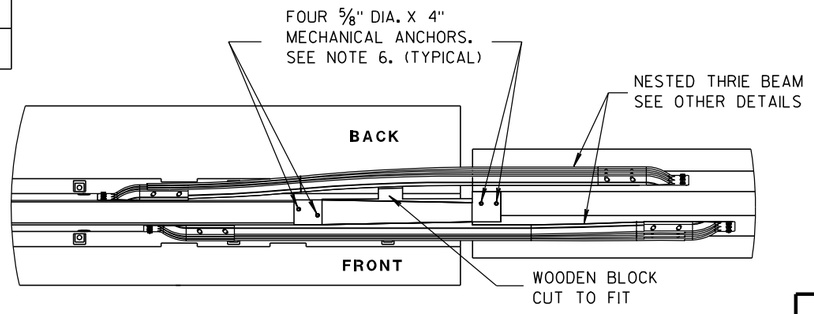
TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM



BACK VIEW



FRONT VIEW



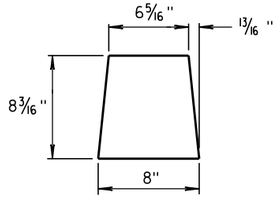
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

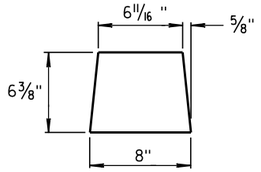
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

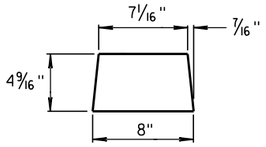
6
S.D.D. 14 B 7-13e



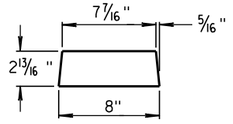
GUSSET 1



GUSSET 2

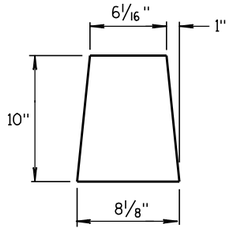


GUSSET 3

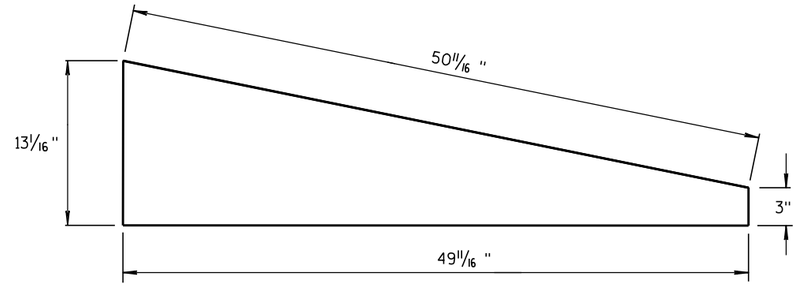


GUSSET 4

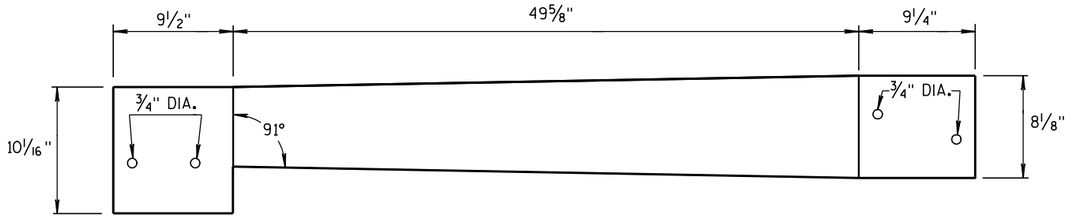
GUSSETS

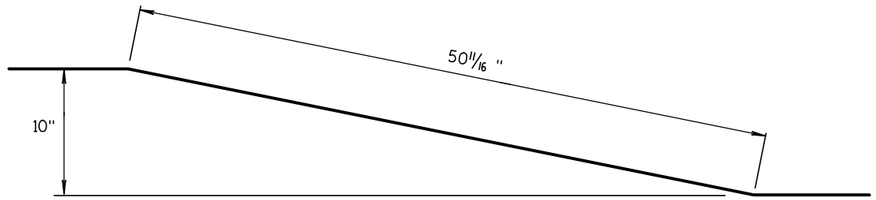


END PLATE

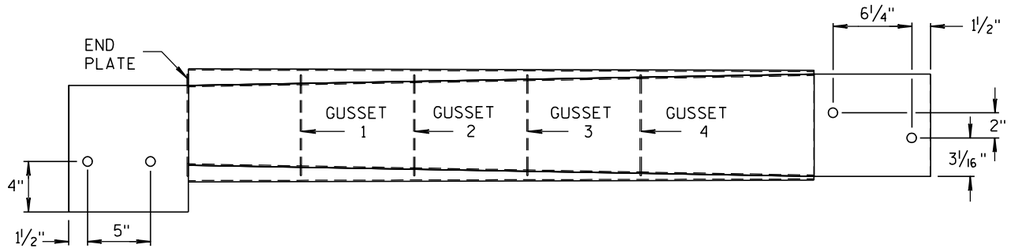


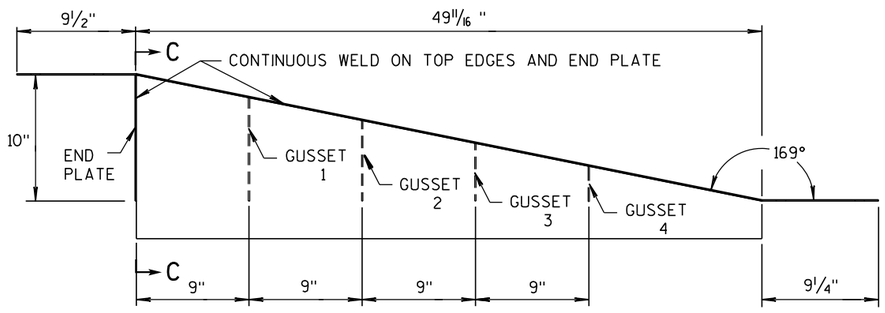
SIDE PLATE

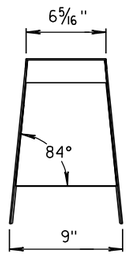




TOP PLATE







SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

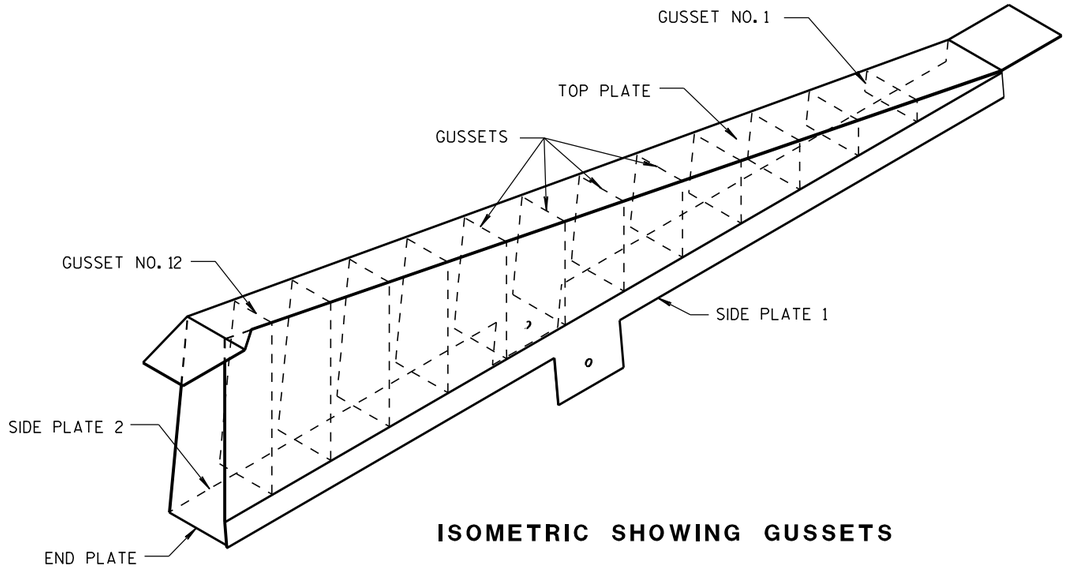
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

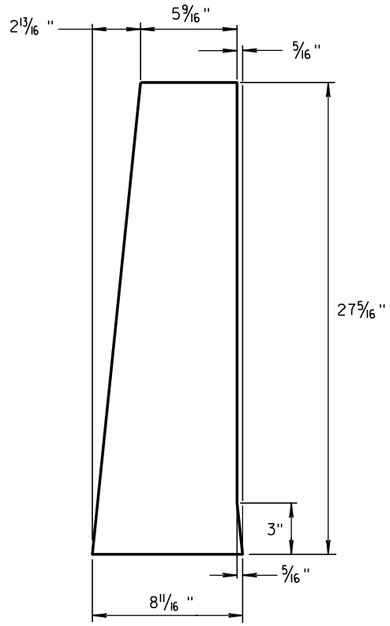
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

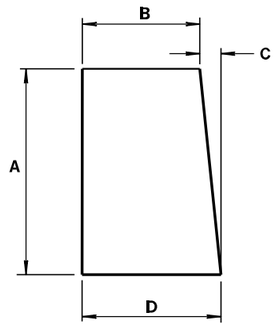


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



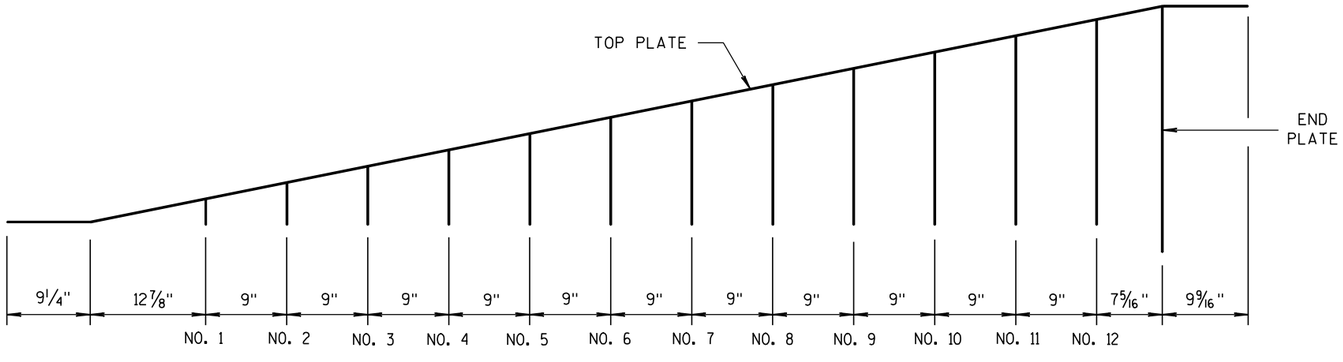
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

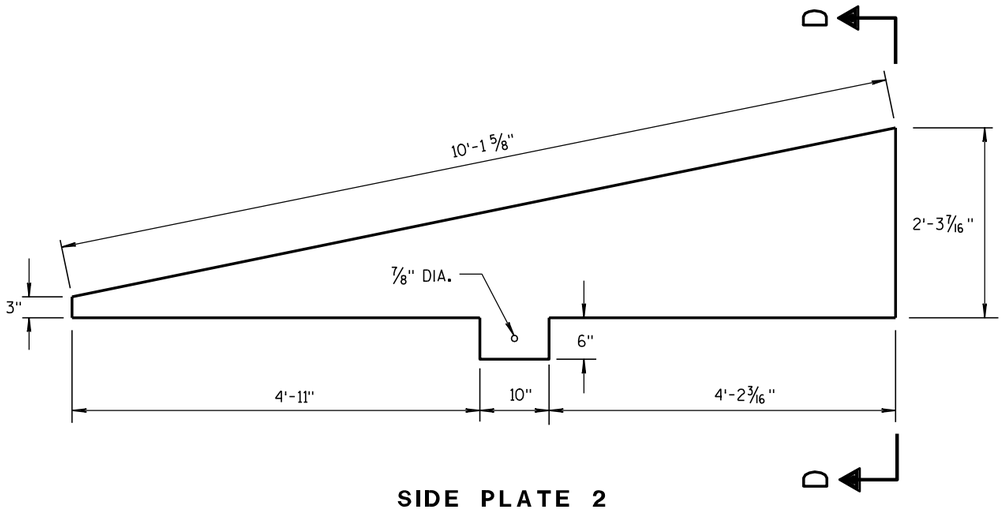
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

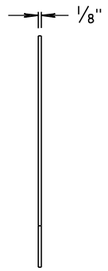
S.D.D. 14 B 7-13g

6

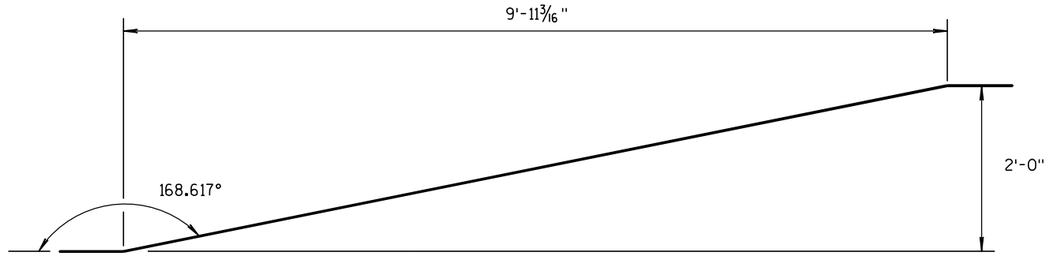
S.D.D. 14 B 7-13g



SIDE PLATE 2

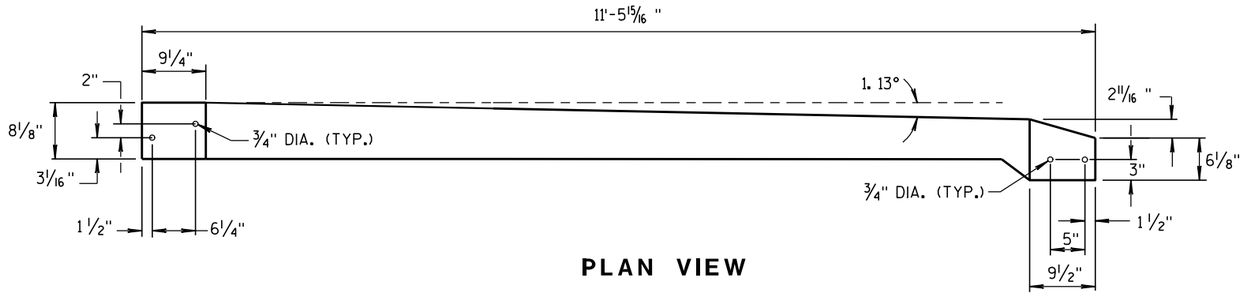


END VIEW



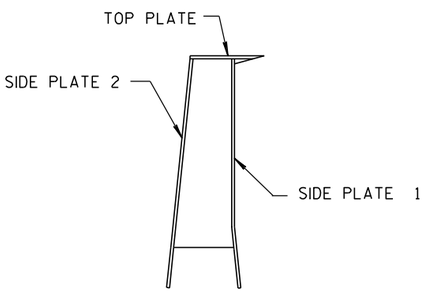
SIDE VIEW

TOP PLATE

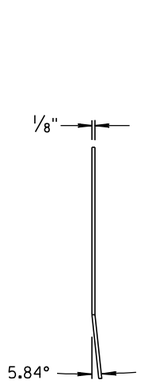


PLAN VIEW

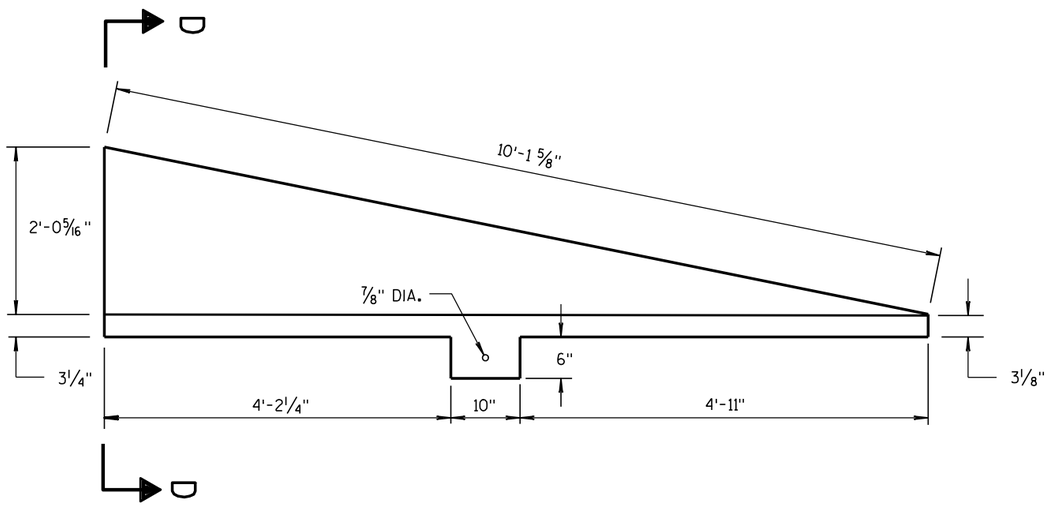
TOP PLATE



SECTION D-D



END VIEW



SIDE PLATE 1

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

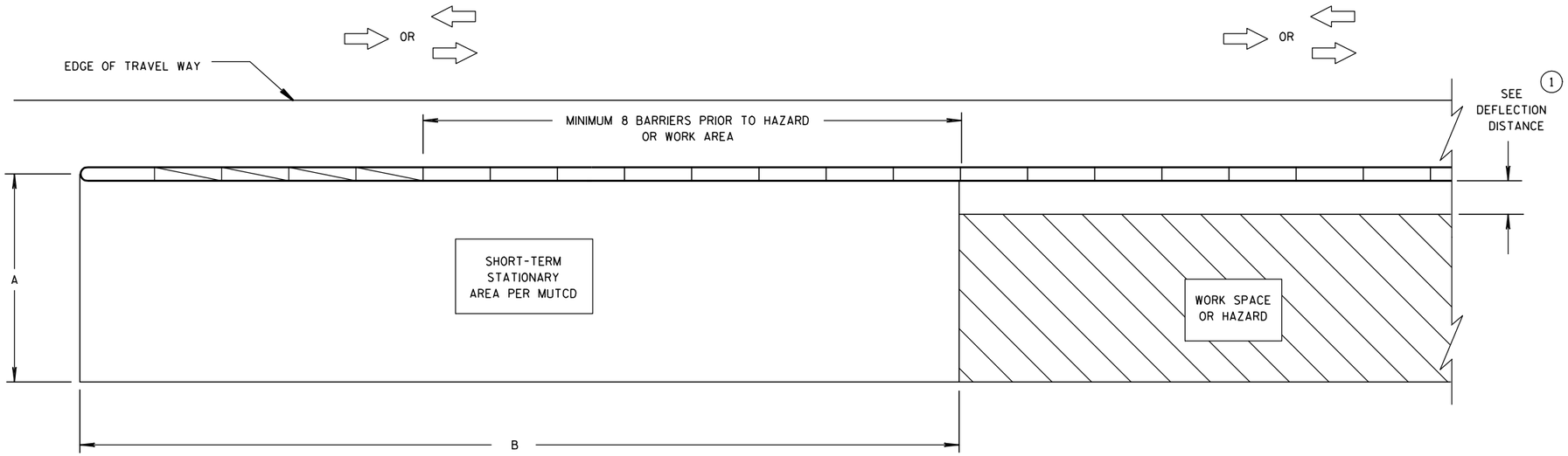
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 8/31/2012 DATE /S/ Jerry H. ---- ROADWAY STANDARDS ENGINEER 826 ENT FHWA

6

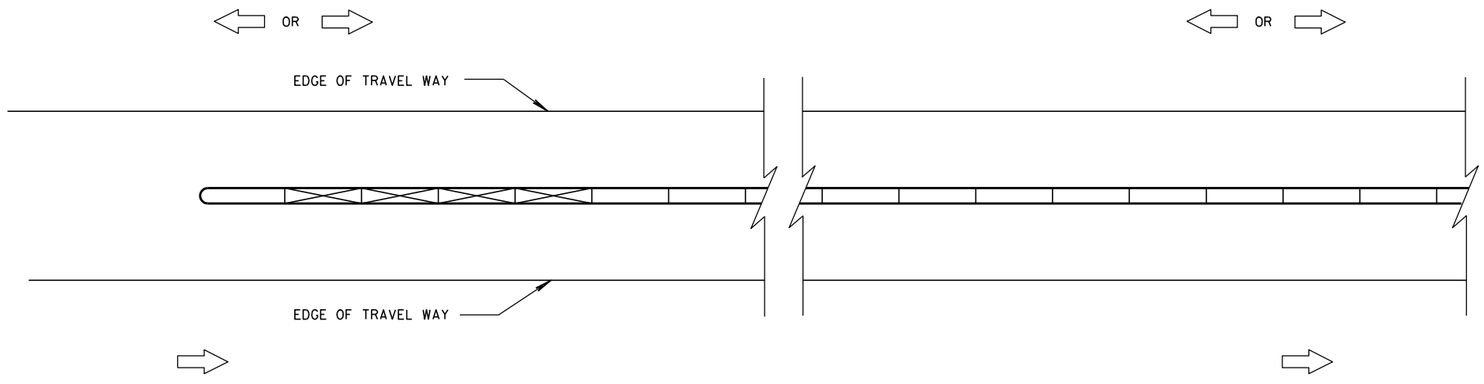
S.D.D. 14 B 7-13h

6

S.D.D. 14 B 7-13h



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

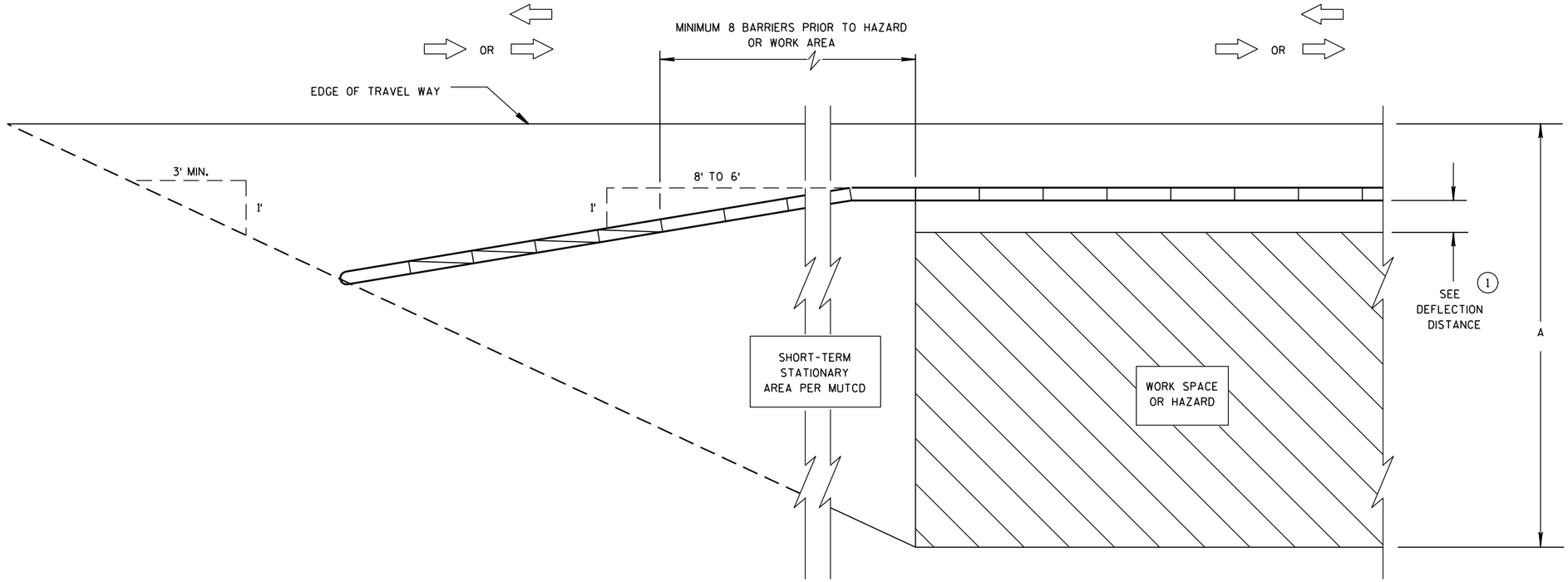
(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

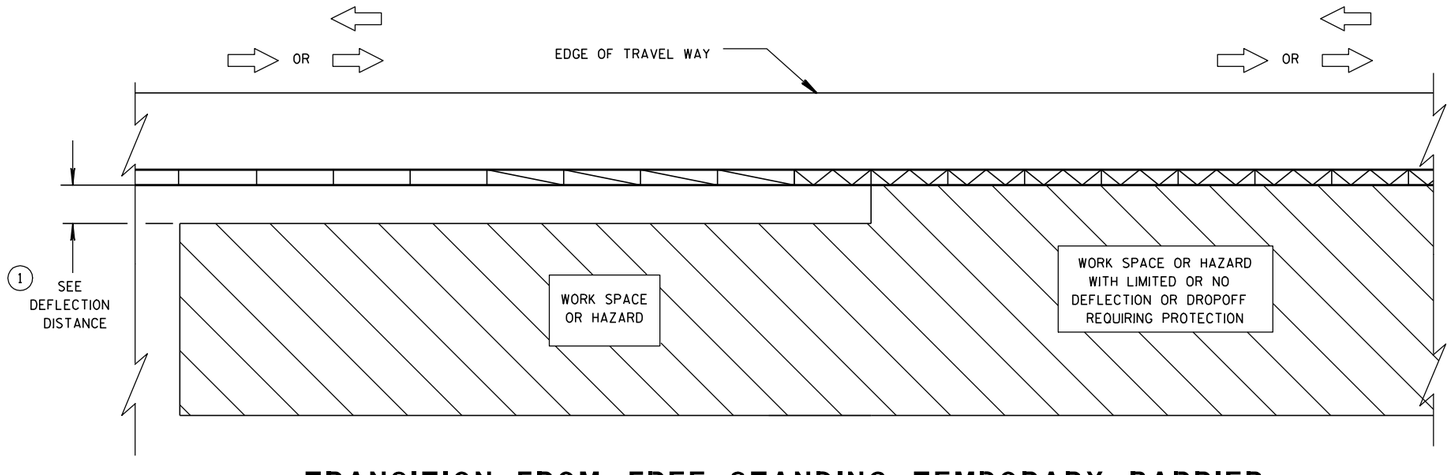
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 8-1a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

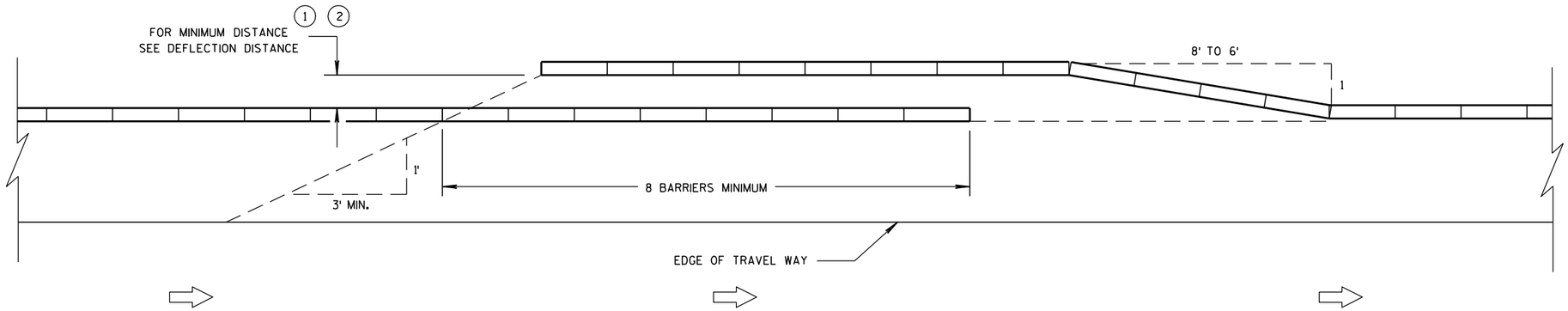
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

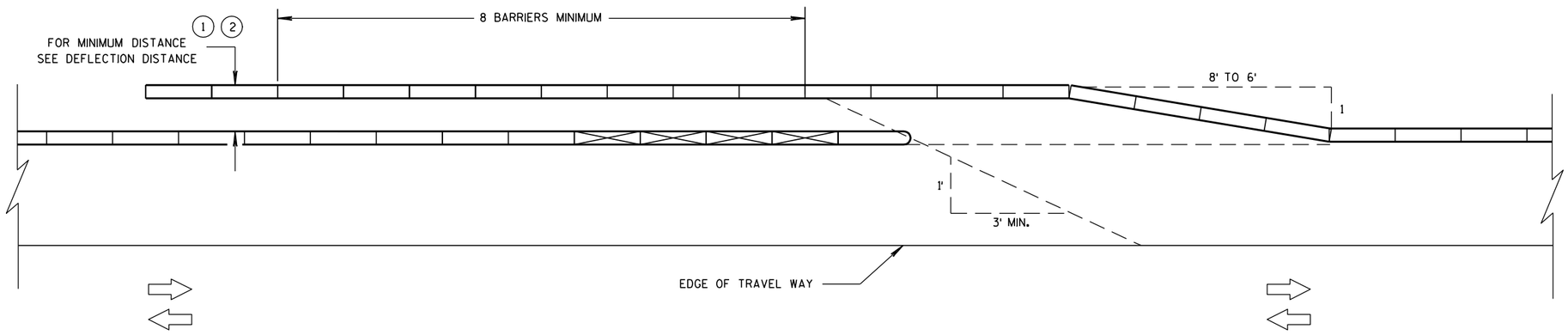
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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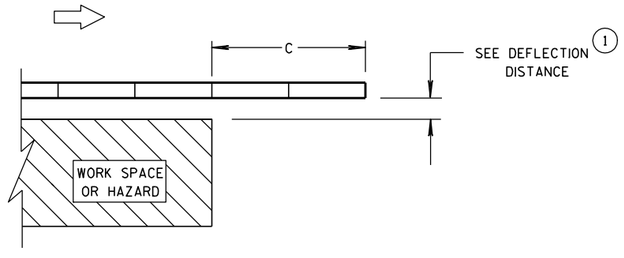
S.D.D. 14 B 8-1b



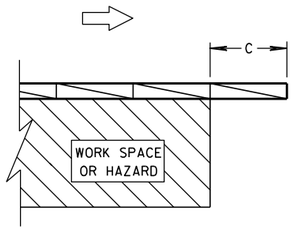
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

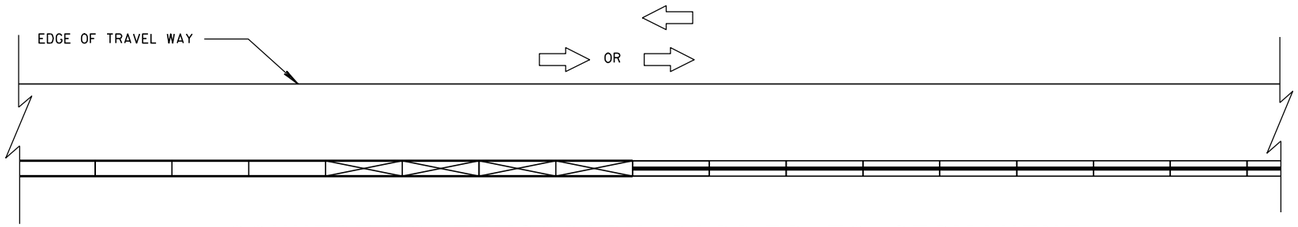
LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

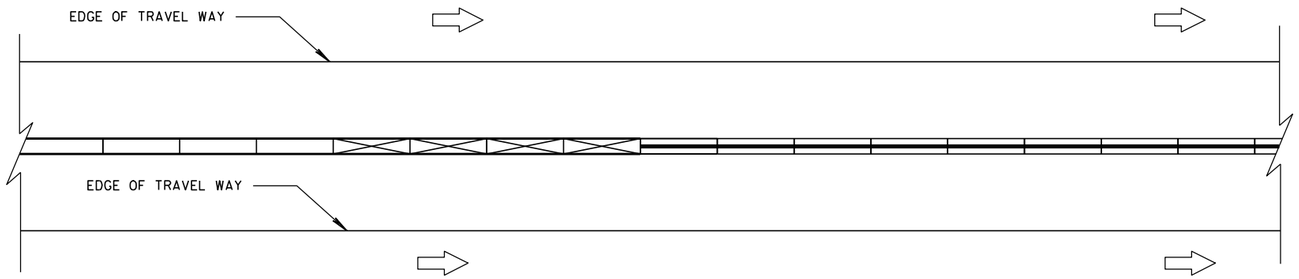
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 8-1c



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR
SAND BARREL ARRAY

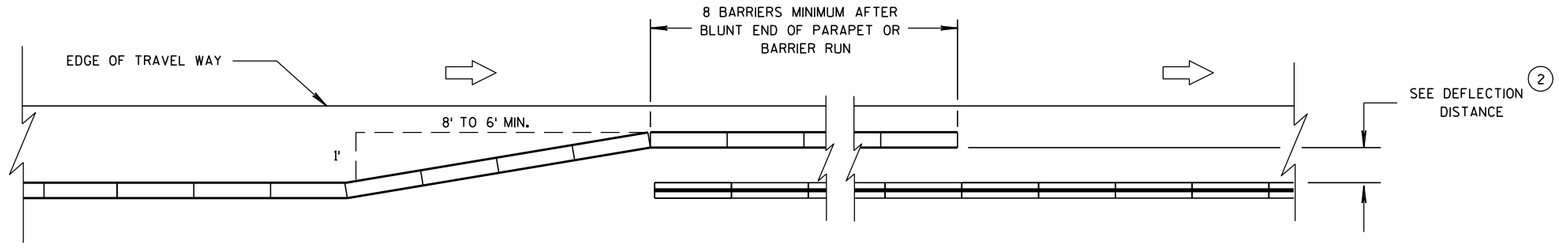
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

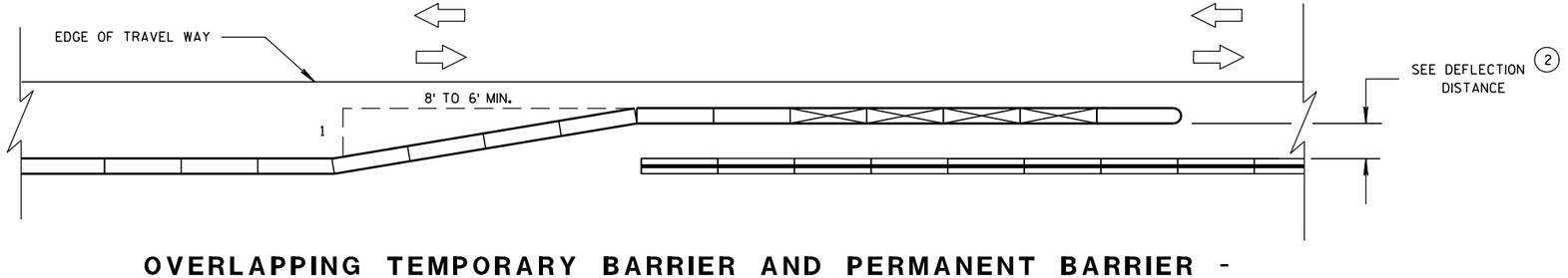
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER
OR CONCRETE PARAPET

FREE STANDING TEMPORARY
BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL
ARRAY AND OTHER TEMPORARY
BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

S.D.D. 14 B 8-1d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

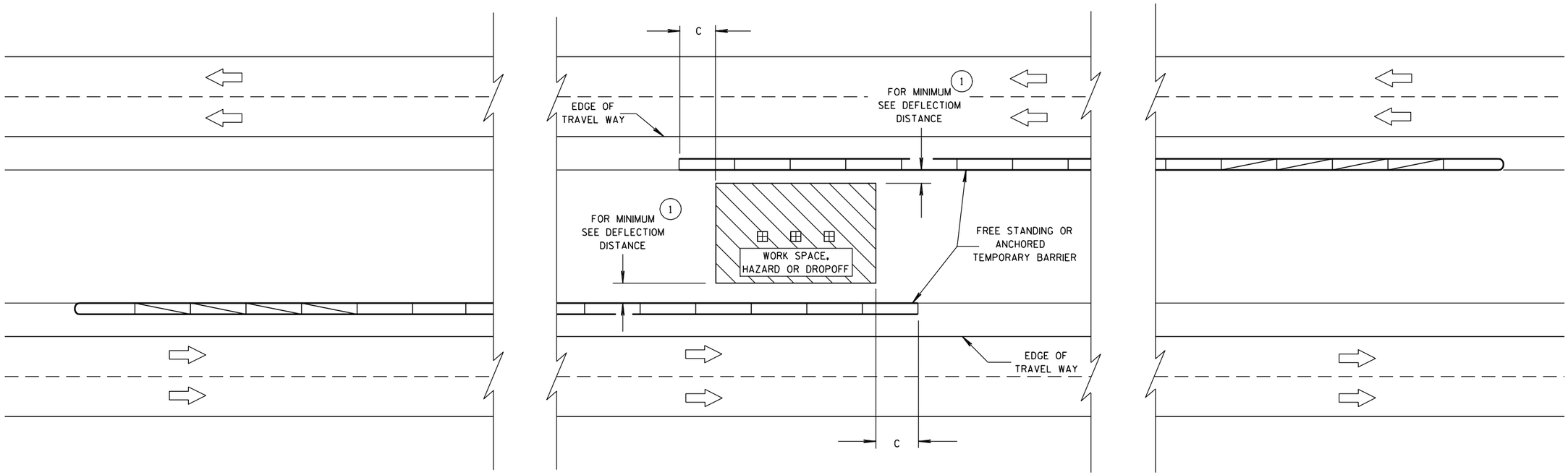
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINNER

831

FHWA

6

S.D.D. 14 B 8-1e

6

S.D.D. 14 B 8-1e

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, AND THE APPLICABLE SPECIAL PROVISIONS.

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

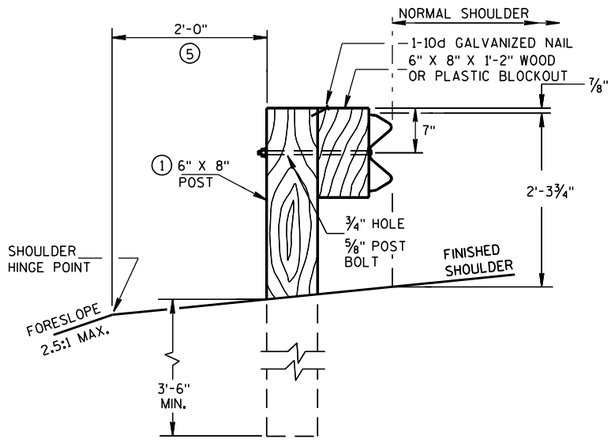
(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

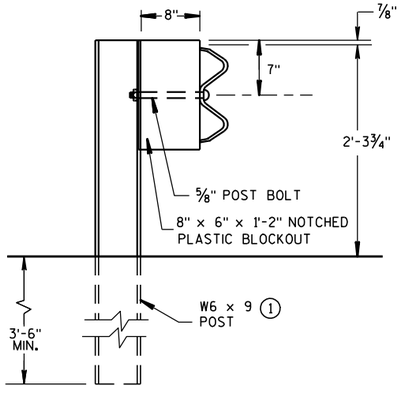
(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

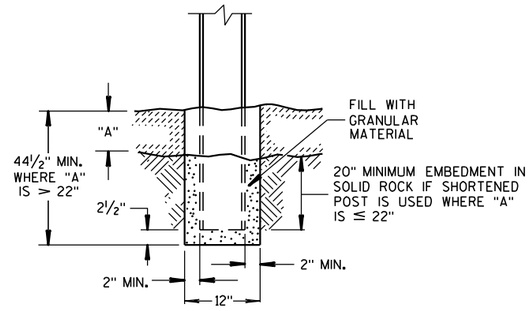
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



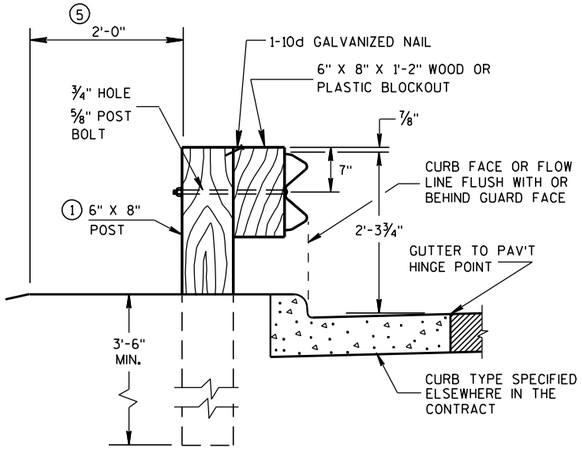
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



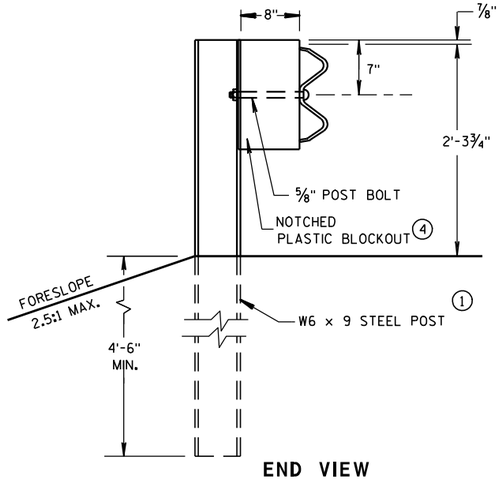
END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



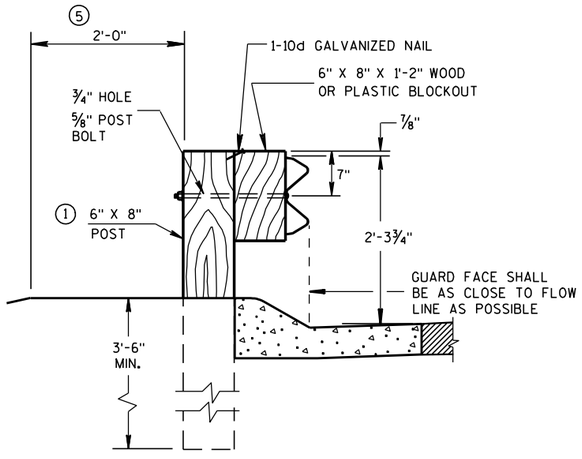
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)



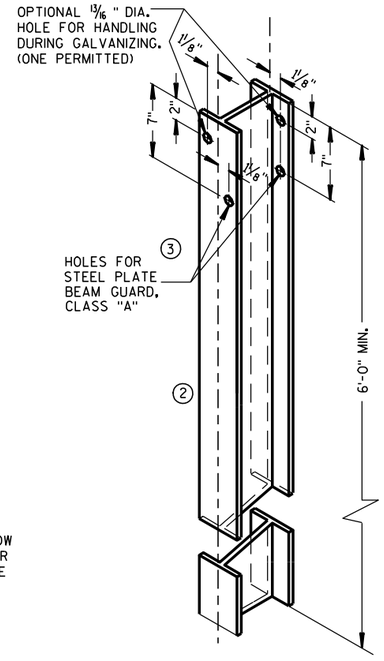
END VIEW
LOCATED ALONG A CURBED ROADWAY



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)

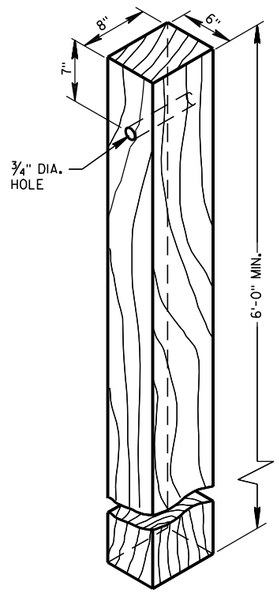


END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

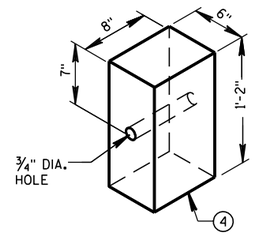


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

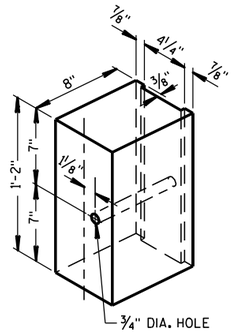
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



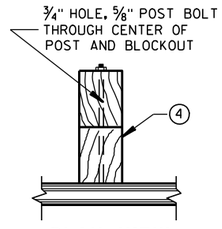
WOOD POST
(6"X8") NOMINAL



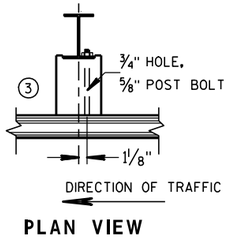
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



TYPICAL NOTCHED (1)
PLASTIC BLOCKOUT
FOR STEEL POSTS



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



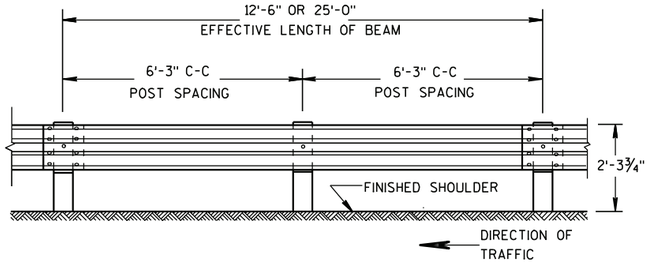
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

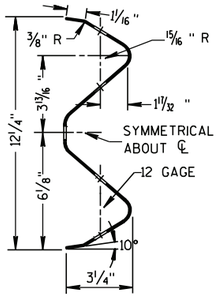
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 15-7a

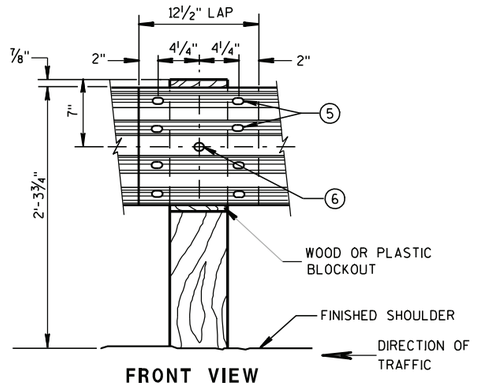


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM

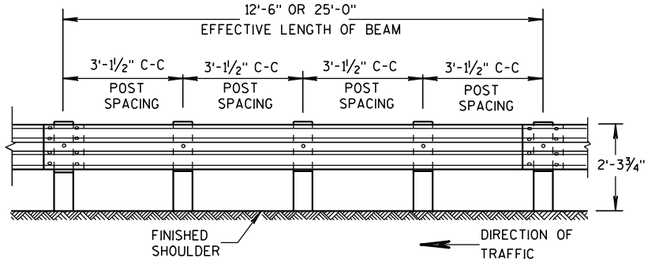


FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

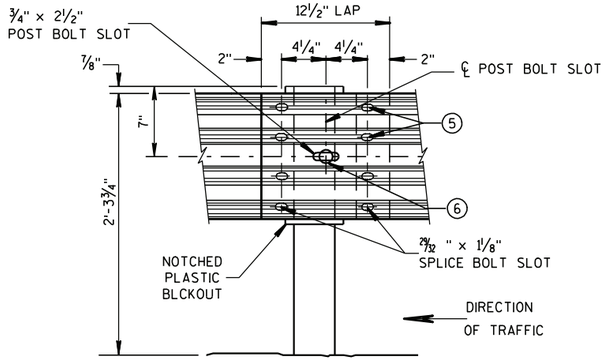
GENERAL NOTES

1. PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
2. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
3. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
4. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
5. 8 - 5/8" ϕ X 2 " BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
6. 5/8" ϕ X 1'-6" BUTTON HEAD BOLT AND AND RECESS NUT WITH ROUND WASHER UNDER NUT.



FRONT VIEW

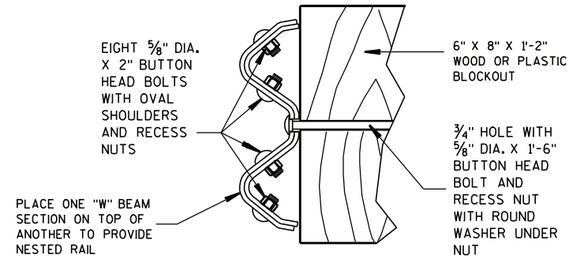
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

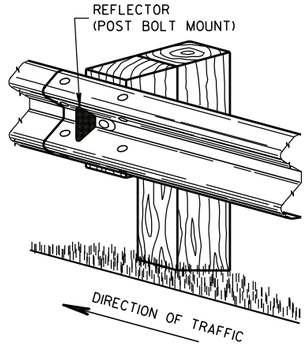


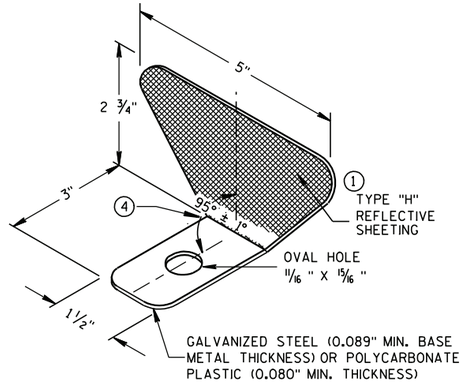
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

REFLECTOR SPACING (2)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (3)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 (4)	



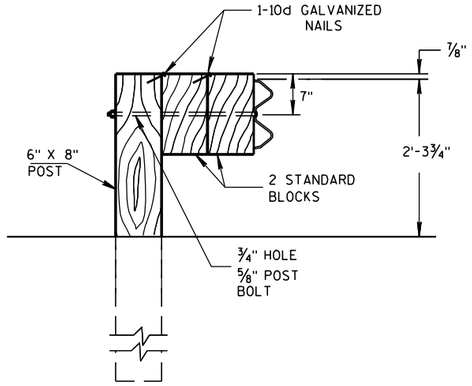


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (1)

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

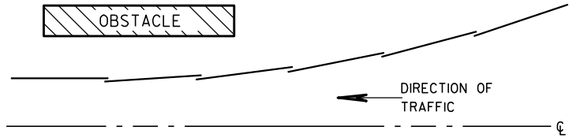
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6
S.D.D. 14 B 15-7b

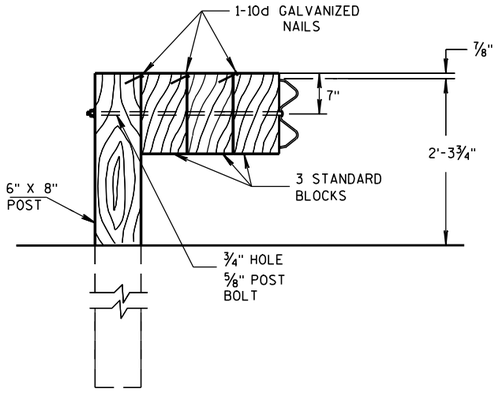


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

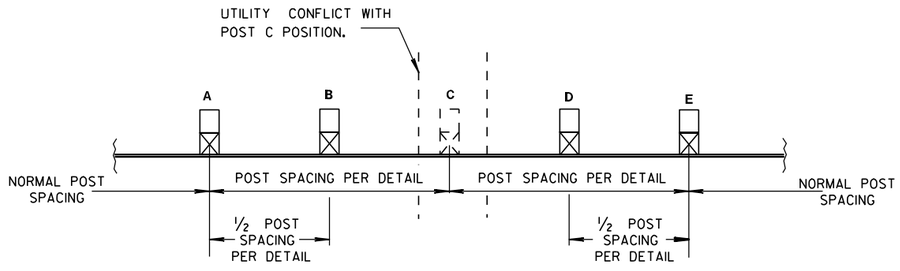


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

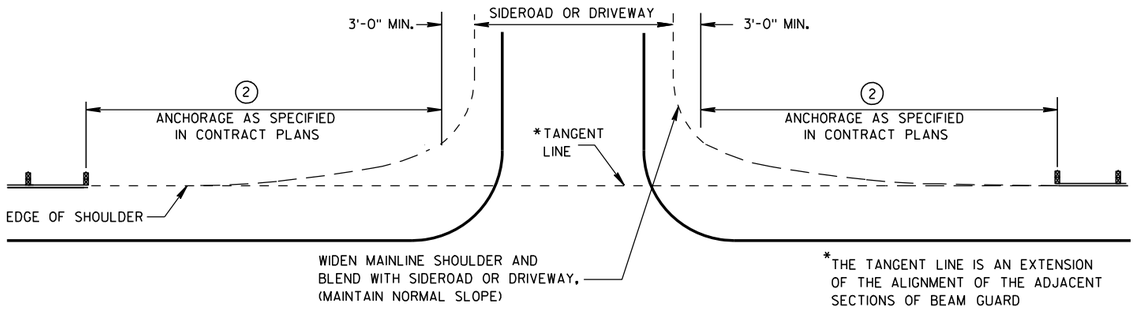
APPROVED

5/23/11	/S/ Jerry H. Zogg	
DATE	ROADWAY STANDARDS ENGINEER 834	ENT

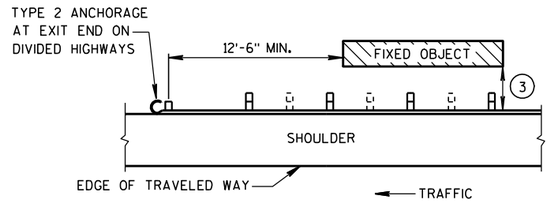
FHWA

6

S.D.D. 14 B 15-7c



BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

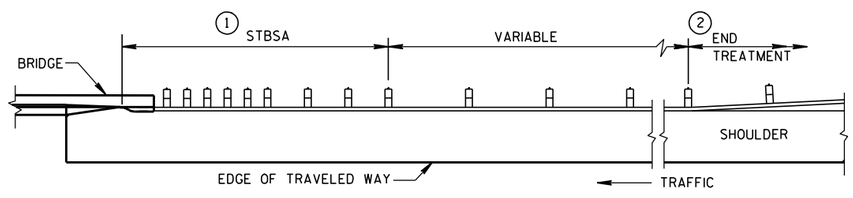
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

(1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE CURRENT SDD 14B20.

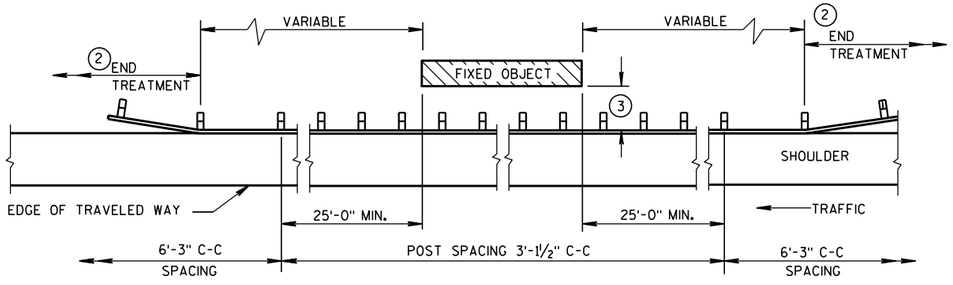
(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

(3)

MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
3'-6"	3' - 1½"
4'-6"	6' - 3"

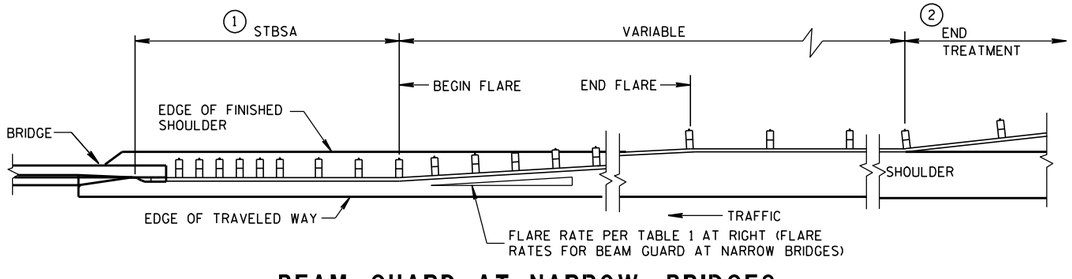


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAM GUARD AT NARROW BRIDGES
(FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1
FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD CLASS "A" AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

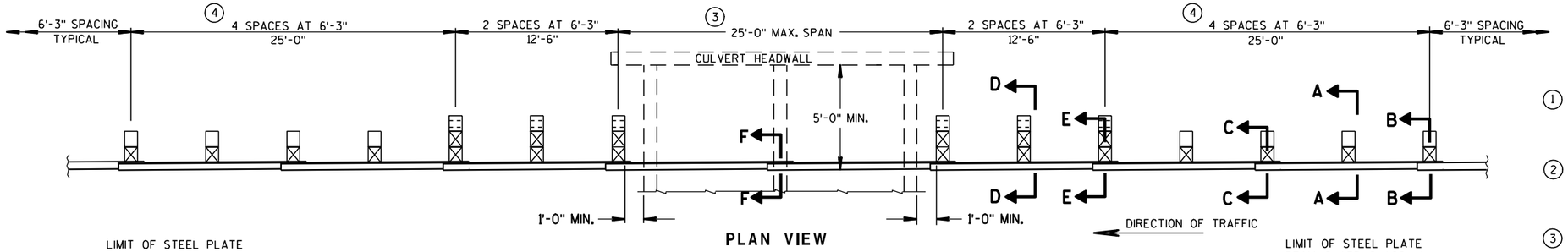
APPROVED
8-21-07 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

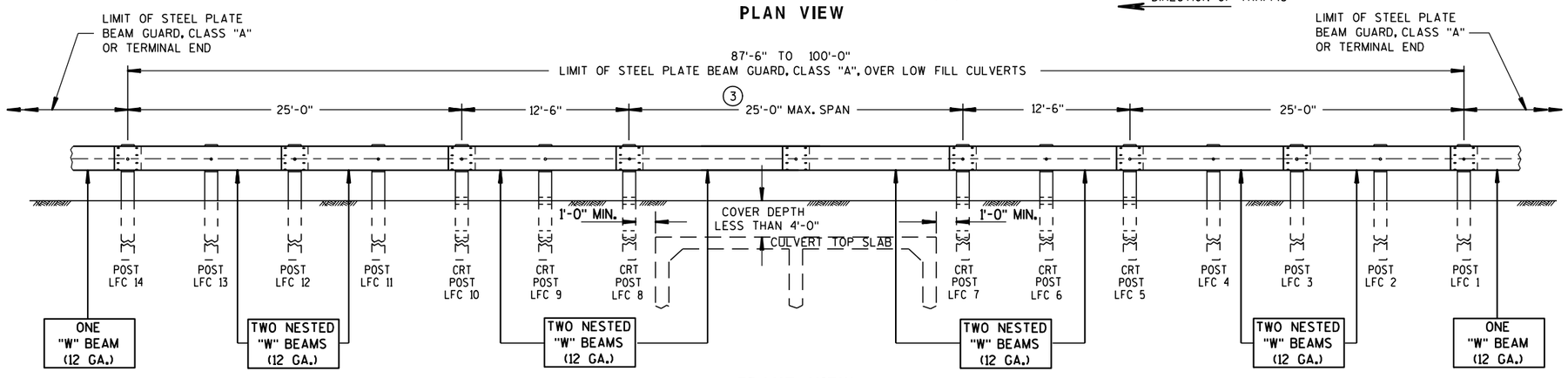
S.D.D. 14 B 18-6a

6

S.D.D. 14 B 18-6a



PLAN VIEW



FRONT VIEW

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD OVER LOW FILL CULVERTS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

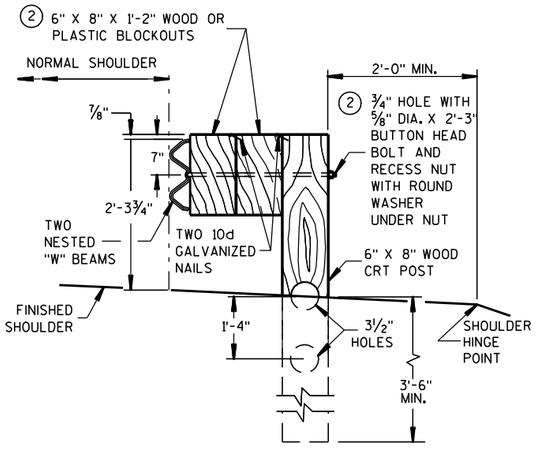
(1) MAINTAIN THE NESTING OF EACH NESTED PAIR OF "W" BEAM SECTIONS THROUGH SPLICES. ORIENTATE NESTED "W" BEAM SPLICES IN THE DIRECTION OF TRAFFIC AS THE PLAN VIEW SHOWS. SEE S.D.D. 14 B 15 FOR SPLICE INSTALLATION.

(2) THE CONTRACTOR MAY USE APPROVED PLASTIC BLOCKOUTS IN LIEU OF WOOD BLOCKOUTS. SEE S.D.D. 14 B 15 FOR TYPICAL BLOCKOUT, SPLICE AND REFLECTOR INSTALLATIONS. USE BOLT SIZES AND LENGTHS AS SHOWN ON THIS DETAIL.

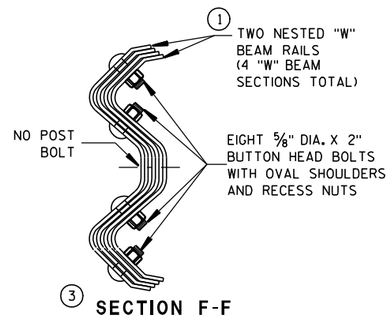
(3) PROVIDE 12'-6", 18'-9" AND 25'-0" SPANS ONLY. USE A MAXIMUM OF ONE SPLICE LOCATED ANYWHERE WITHIN THE SPAN SECTION. LOCATE ALL OTHER SPLICES AT BEAM GUARD POSTS.

(4) IN THE FIRST AND LAST 25 FOOT SECTIONS (POSTS LFC 1-4 & LFC 11-14), THE CONTRACTOR MAY USE W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS OR 6" X 8" WOOD POSTS WITH EITHER WOOD OR PLASTIC BLOCKOUTS. DO NOT MIX STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS AND WOOD POSTS WITH EITHER WOOD OR PLASTIC BLOCKOUTS IN THE SAME INSTALLATION.

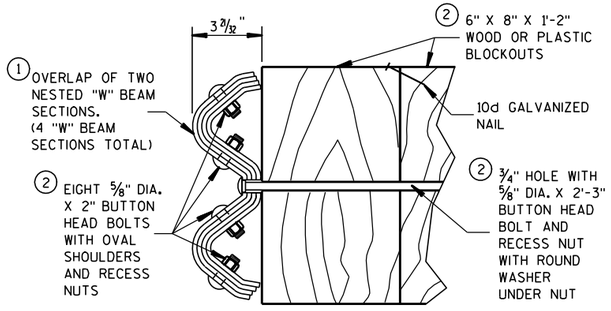
(5) WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK, THE PLAN TYPICAL SECTIONS OR DETAILS MAY SHOW, OR THE ENGINEER MAY ALLOW, THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. BUILD AS THE PLAN SHOWS OR ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST SOIL DEPTH TO 4'-6" OR MORE.



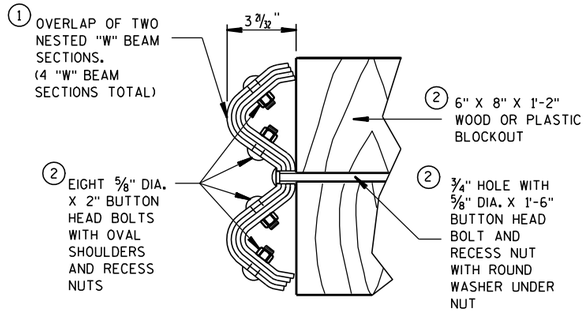
SECTION D-D
TYPICAL CRT POST LFC 6 AND 9



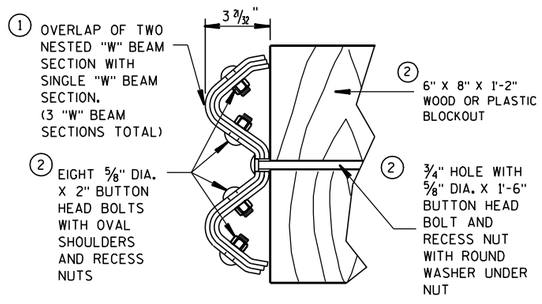
(3) SECTION F-F
BEAM SPLICE IN SPAN OVER CULVERT



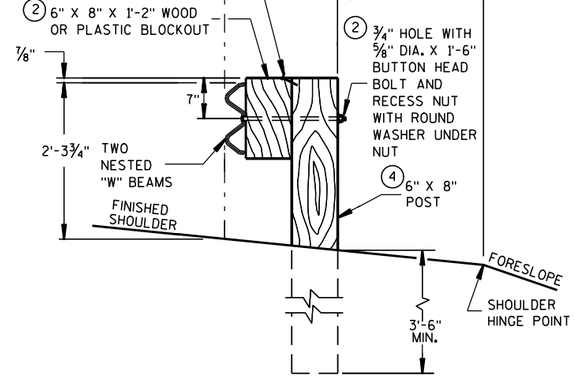
SECTION E-E
TYPICAL CRT POST LFC 5, 7, 8 AND 10



SECTION C-C
TYPICAL AT POSTS LFC 3 AND 12



SECTION B-B
TYPICAL AT POSTS LFC 1 AND 14



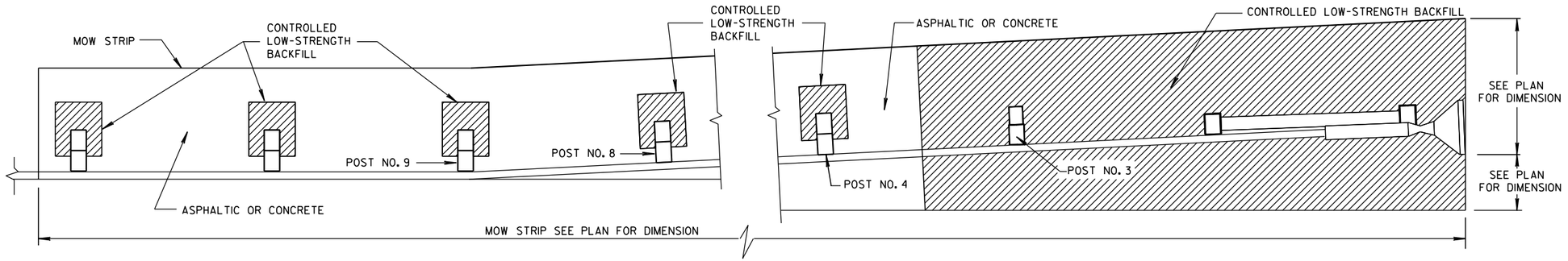
SECTION A-A
TYPICAL AT POST LFC 2,4,11,13

STEEL PLATE BEAM GUARD, CLASS "A", OVER LOW FILL CULVERTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

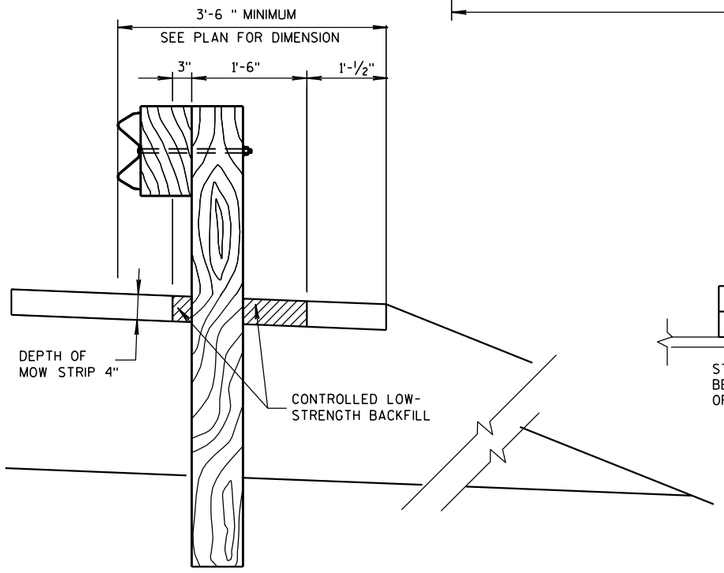
APPROVED
12/8/00 DATE
/S/ John Have... CHIEF ROADWAY DEVELOP... ENGINEER
FHWA

6
S.D.D. 14 B 25-1

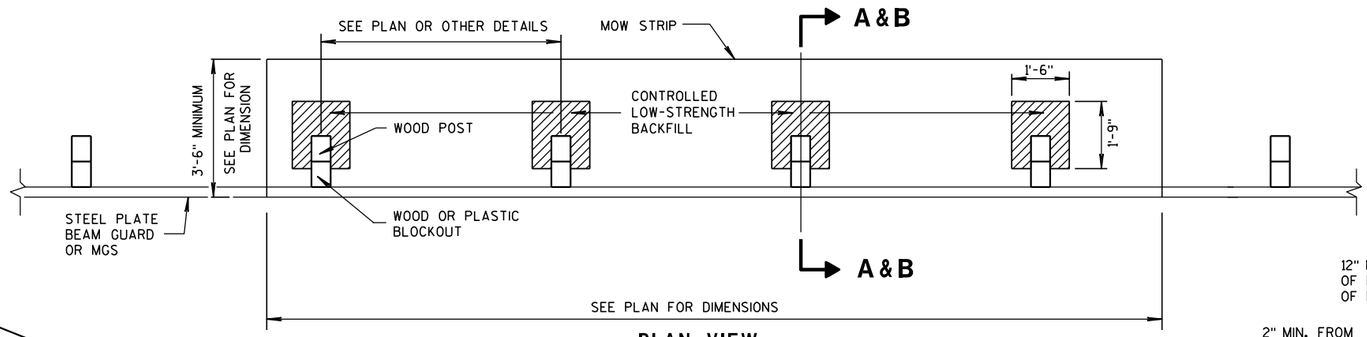


PLAN VIEW

MOW STRIP FOR STEEL PLATE BEAM GUARD ENERGY ABORBING TERMINAL

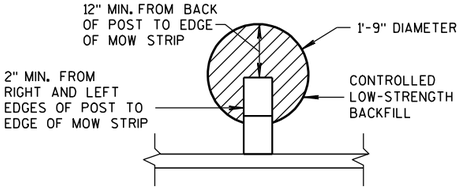


SECTION A-A

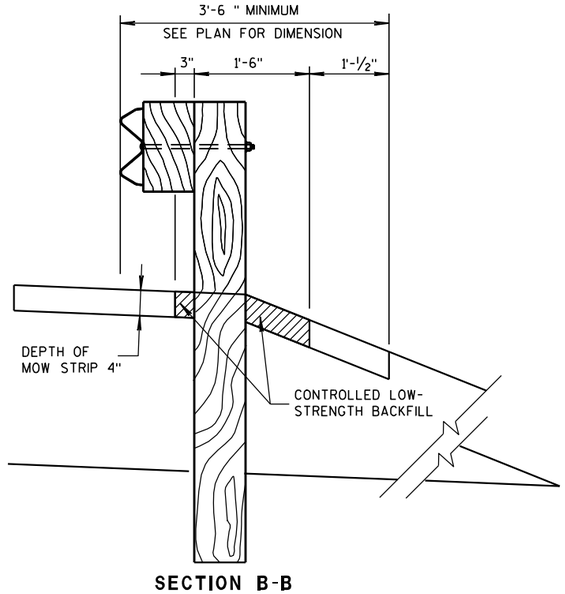


PLAN VIEW

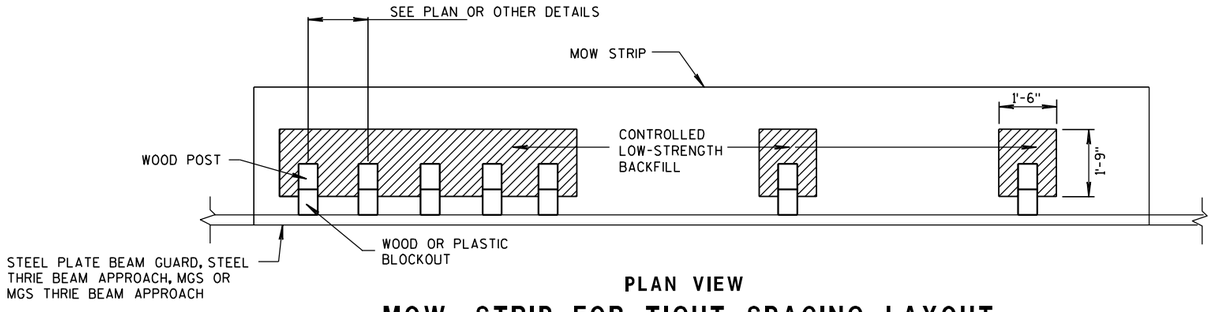
MOW STRIP FOR TYPICAL BLOCKOUT LAYOUT



ALTERNATIVE HMA
MOW STRIP DESIGN

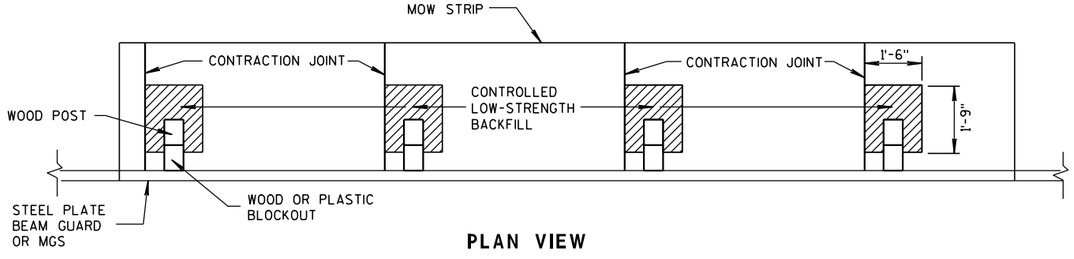


SECTION B-B



PLAN VIEW

MOW STRIP FOR TIGHT SPACING LAYOUT



PLAN VIEW

JOINT PLACEMENT FOR CONCRETE MOW STRIP

GUARDRAIL MOW STRIP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

1/27/12
DATE

/S/ Jerry H. Zaas
ROADWAY STANDARDS 1837
ENGINEER

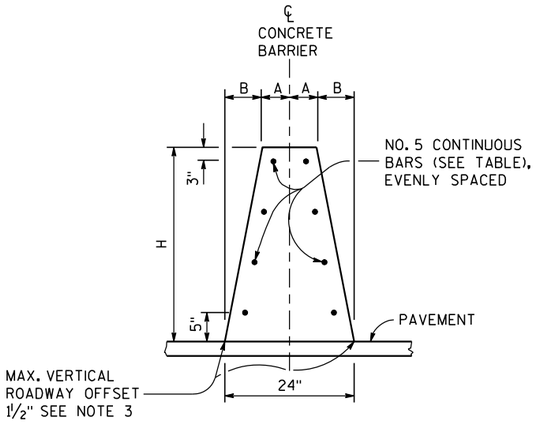
FHWA

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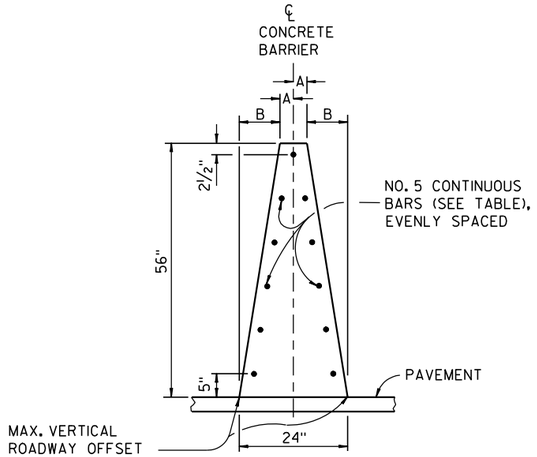
S.D.D. 14 B 28-2

6

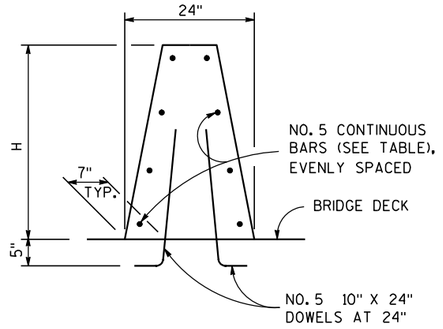
S.D.D. 14 B 28-2



32-INCH, 36-INCH OR 42-INCH SINGLE SLOPE CONCRETE BARRIER (TYPE S32, TYPE S36, AND TYPE S42)



56-INCH SINGLE SLOPE CONCRETE BARRIER (TYPE S56)



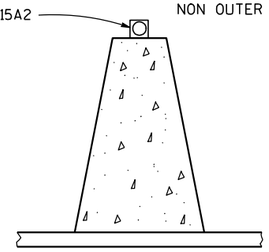
SINGLE SLOPE CONCRETE BARRIER ON BRIDGE

NON OUTER PARAPET APPLICATION

GENERAL NOTES

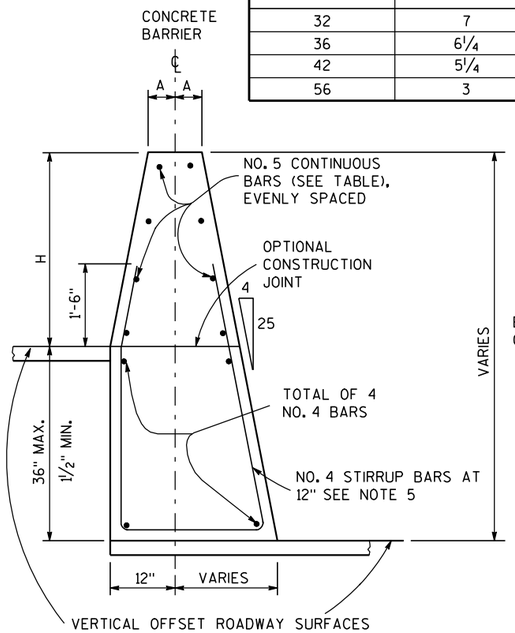
1. WHERE THE CONCRETE BARRIER IS ADDED TO THE FACE OF EXISTING CONCRETE STRUCTURE, MATCH EXISTING WEEP HOLES.
2. EXPANSION JOINTS IN CONCRETE BARRIER SHALL BE LOCATED AT ALL DECK, PAVEMENT AND PRINCIPAL WALL JOINTS. EXPANSION JOINT FILLER MATERIAL SHALL BE THE SAME SIZE AS JOINT OR ½" MINIMUM.
3. WHERE VERTICAL ROADWAY OFFSET IS GREATER THAN 1½", USE TYPE A
4. PLACE BARRIER PERPENDICULAR TO SHOULDER GRADE, UNLESS INDICATED IN PLAN.
5. EXCEPT IN ANCHORS, VERTICAL REINFORCING STIRRUP NOT REQUIRED FOR ROADWAY OFFSETS LESS THAN 1'-0".
6. FOR TYPE S32, TYPE S36, TYPE S42, AND S56 MONOLITHIC FOOTING OR DOWELED FOOTING WITH 2-#8 x 8" @ 2'-0".
7. STAGGER LAPPING OF LONGITUDINAL STEEL. MINIMUM OVERLAP OF STEEL 2 FEET. BARS AT LAPS TO BE FIRMLY TIED OR CONNECTED.
8. 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATION 501.
9. WHEN SWITCHING BETWEEN SLIP FORM AND CAST-IN-PLACE OPERATIONS, EXTEND LONGITUDINAL STEEL 3 FEET BEYOND SLIP-FORMING CUT OFF POINT. EXPOSED STEEL INTO NEXT POURS REINFORCEMENT. LAPS TO BE FIRMLY TIED.
10. USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
11. 2" CLEAR COVER TYPICAL.
12. COLD-JOINTS MAY BE USED BETWEEN ANCHOR INSTALLATIONS. WHEN A COLD JOINT IS NEEDED, 3 FEET OF LAP OF LONGITUDINAL STEEL IS REQUIRED. LAPS TO BE FIRMLY TIED
13. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 NO ADDITIONAL VERTICAL STEEL NEEDED. IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A REQUIRES VERTICAL STEEL. SEE OTHER DETAIL
14. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 DEPTH OF FOOTING 10". IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A MATCH TOTAL HEIGHT OF SINGLE SLOPE BARRIER RETAINING WALL.
15. FOR ALL BARRIER TYPES SHOWN, ANCHOR IS REQUIRED AT CONCRETE BARRIER ENDS AND AT INTERRUPTIONS IN CONCRETE BARRIER. ANCHOR MAY BE AS SHOWN ON DRAWING OR DETAILS SHOWN ON S.D.D. 14B33. ANCHORS INCIDENTAL TO CBSS.

SEE STANDARD DETAIL DRAWING 15A2 FOR DELINEATOR DETAILS



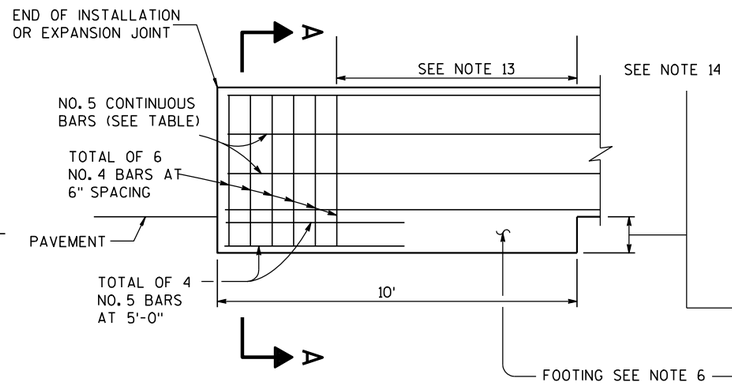
DELINEATION

BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF NO. 5 BARS EACH
32	7	5	8
36	6¼	5¾	8
42	5¼	6¾	10
56	3	9	11



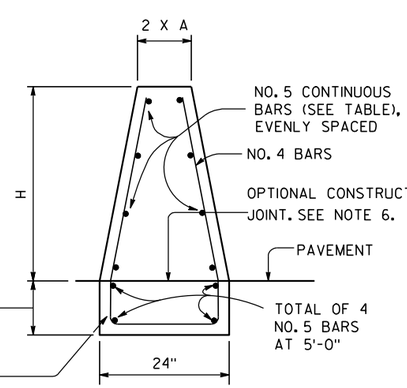
SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL (TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)

(BETWEEN ADJACENT ROADWAYS)



END ANCHOR SINGLE SLOPE CONCRETE BARRIER

AT CONSTRUCTION JOINT



SECTION A-A

DELINEATOR SPACING ON HORIZONTAL CURVES

RADIUS OF CURVE	APPROXIMATE SPACING ON CURVE
50 FEET	20 FEET
115 FEET	25 FEET
180 FEET	35 FEET
250 FEET	40 FEET
300 FEET	50 FEET
400 FEET	55 FEET
500 FEET	65 FEET
600 FEET	70 FEET
700 FEET	75 FEET
800 FEET	80 FEET
900 FEET	85 FEET
1000 FEET	90 FEET

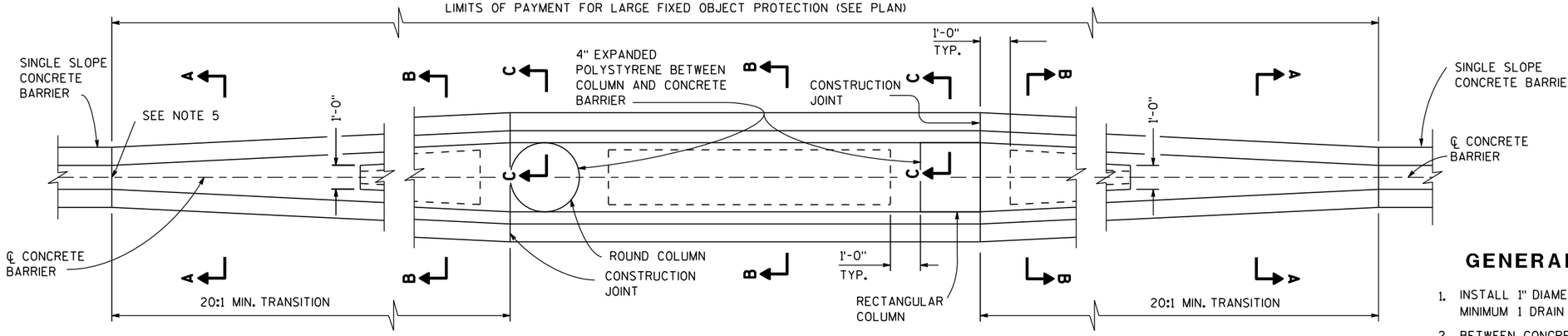
DELINEATOR SPACING ON RADIUS GREATER THAN 1000 FEET OR TANGENT SECTIONS

	LENGTH OF BARRIER	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2	

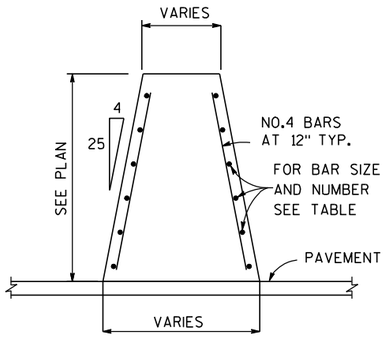
CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

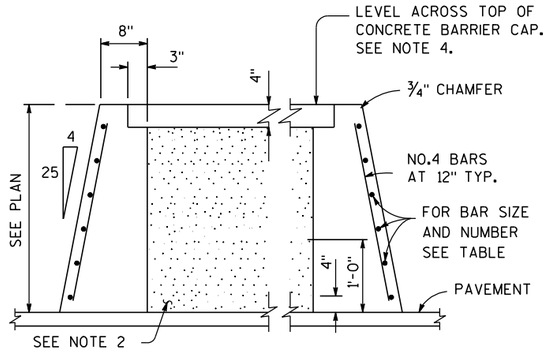
6
S.D.D. 14 B 32-1a



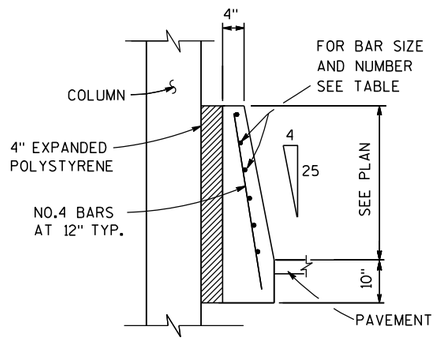
LARGE FIXED OBJECTS PROTECTION
TYPE S32, TYPE S36, TYPE S42, TYPE S56



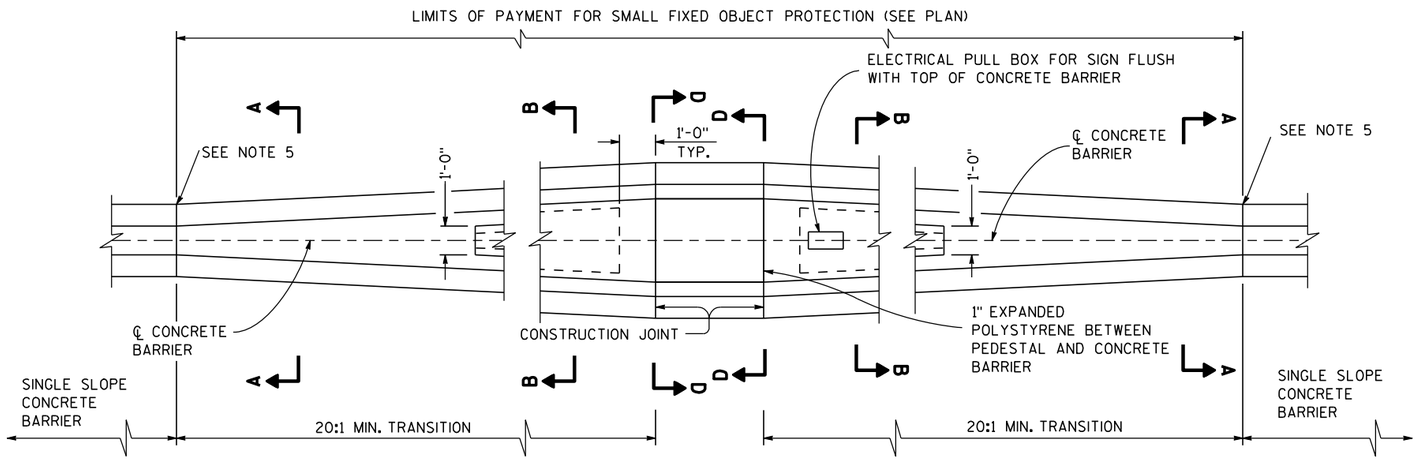
SECTION A-A



SECTION B-B



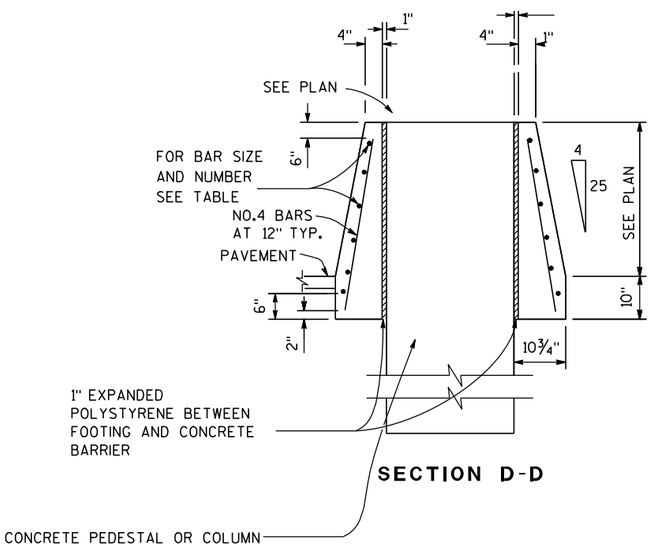
SECTION C-C



SMALL FIXED OBJECTS PROTECTION
TYPE S32, TYPE S36, TYPE S42, TYPE S56

GENERAL NOTES

1. INSTALL 1" DIAMETER DRAIN PIPE EVERY 20' OF CROSS SECTION B-B. MINIMUM 1 DRAIN PER CAVITY.
2. BETWEEN CONCRETE BARRIER WALLS FILL WITH GRANULAR BACKFILL GRADE 2
3. REINFORCING STEEL SHALL EXTEND CONTINUOUS THROUGH CONSTRUCTION JOINTS.
4. ADJUST HEIGHT OF CONCRETE BARRIER WALL ON LOW SIDE OF OFFSET OR SUPERELEVATED ROADWAYS TO PROVIDE LEVEL GRADE ACROSS TOP OF CONCRETE CAP.
5. IF FIXED OBJECT PROTECTION IS INSTALLED FIRST, USE COLD JOINTS. IF CBSS PLACED FIRST, USE EXPANSION JOINT.



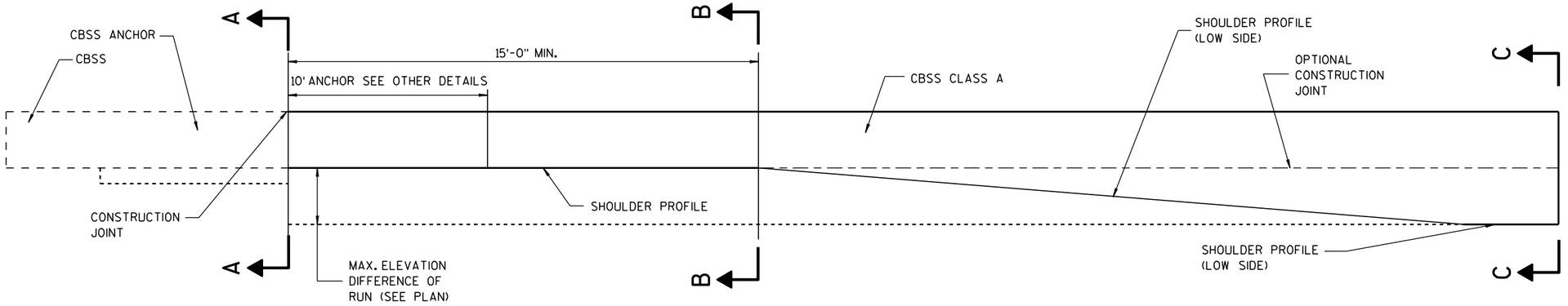
SECTION D-D

BARRIER HEIGHT H INCHES	BAR SIZE	NUMBER OF BARS EACH
32	4	6
36	4	6
42	5	6
56	5	9

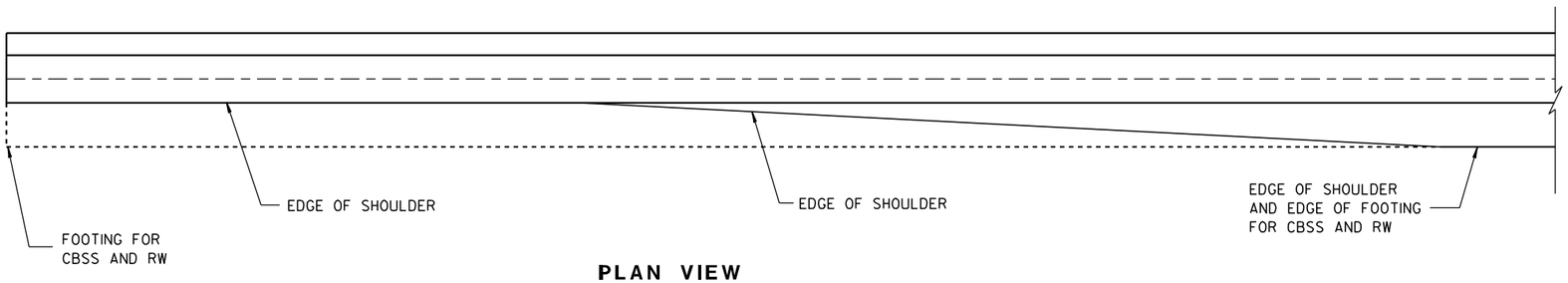
CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

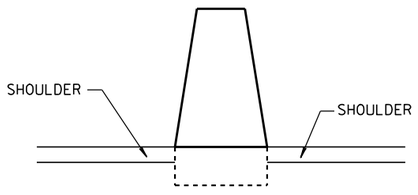
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S.D.D. 14 B 32-1b



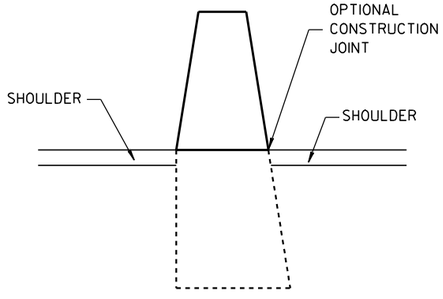
ELEVATION VIEW
TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)



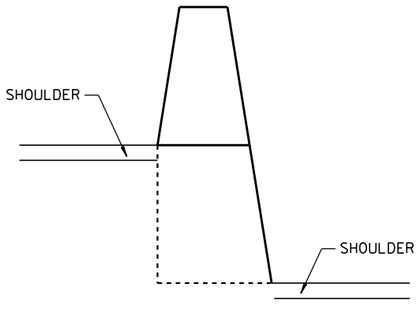
PLAN VIEW
TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)



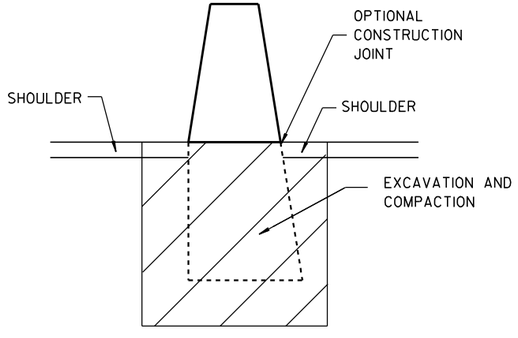
SECTION A-A



SECTION B-B



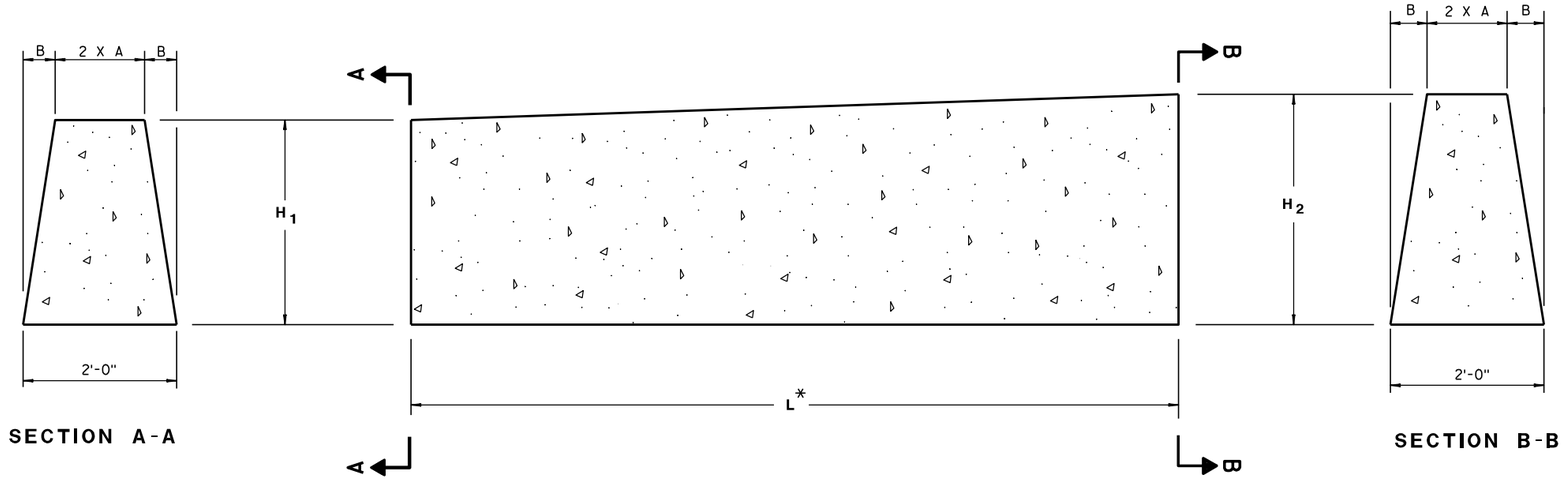
SECTION C-C



CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 32-1c



SECTION A-A

SECTION B-B

DOUBLE COLD JOINT HEIGHT TRANSITION

BARRIER DIMENSIONS

BARRIER HEIGHT INCHES	A INCHES	B INCHES
32	7	5
36	6 1/4	5 3/4
42	5 1/4	6 3/4
56	3	9

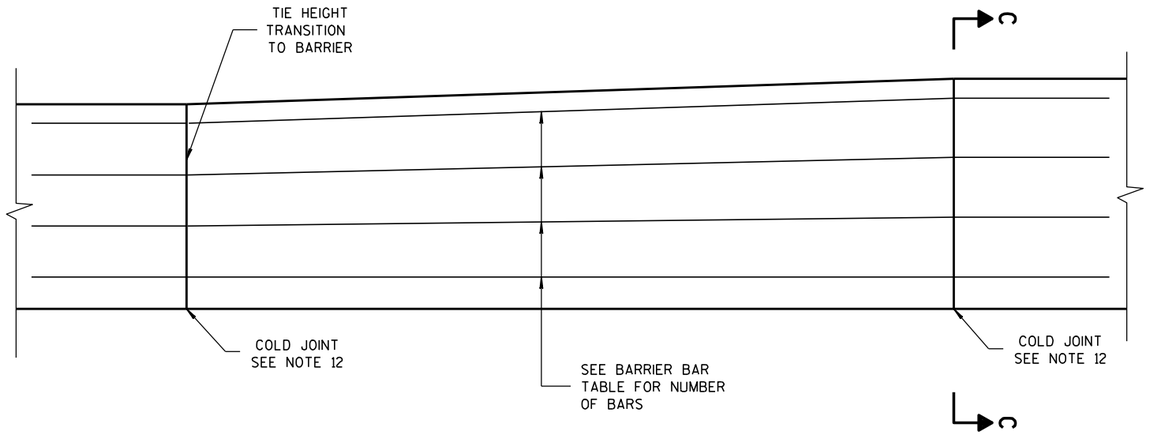
MULTIPLE HEIGHT TRANSITIONS MAY BE USED IN SEQUENCE TO GET TO APPROPRIATE HEIGHT.

USE COLD JOINT TO CONNECT MULTIPLE HEIGHT TRANSITIONS.

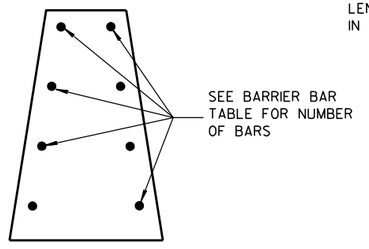
BARRIER BARS

H_1	H_2	L*	NUMBER OF NO. 5 BARS
32"	36"	10'-0"	8
36"	42"	10'-6"	10
42"	56"	24'-6"	11

* LENGTH OF DOUBLE COLD JOINT INCLUDED IN THE TOTAL LENGTH OF CBSS.



STEEL REINFORCEMENT DETAIL



SECTION C-C

CONCRETE BARRIER SINGLE SLOPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6-3-2010 DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

841

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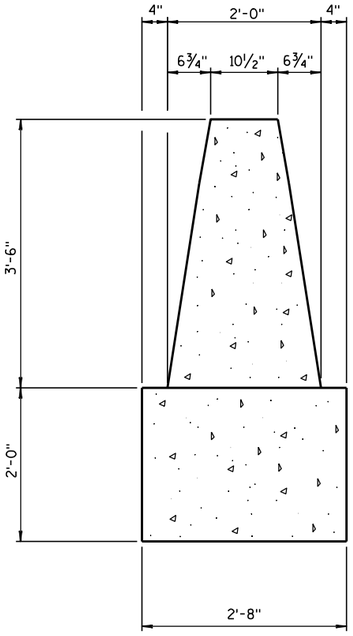
FHWA

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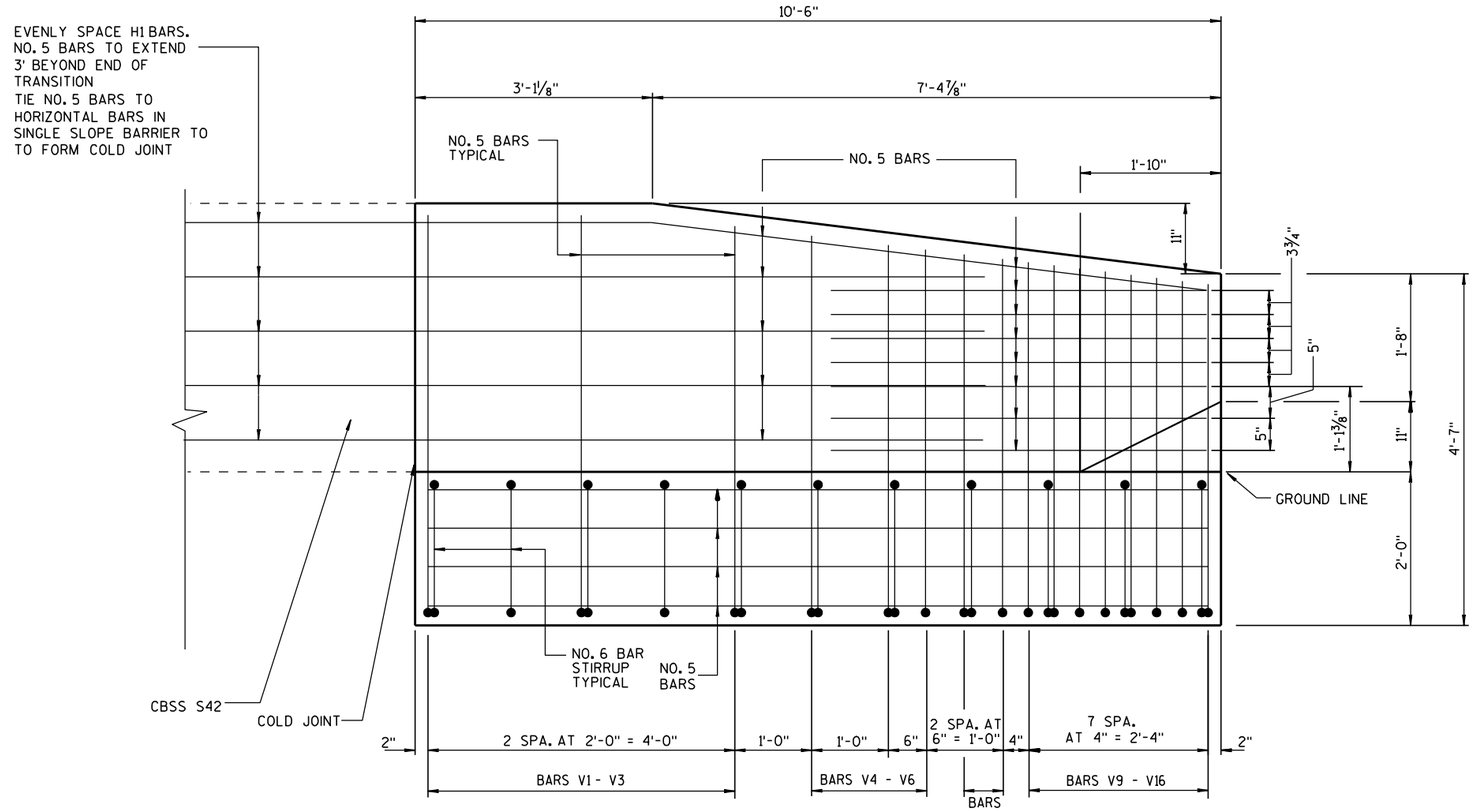
S.D.D. 14 B 32-1d

6

S.D.D. 14 B 32-1d

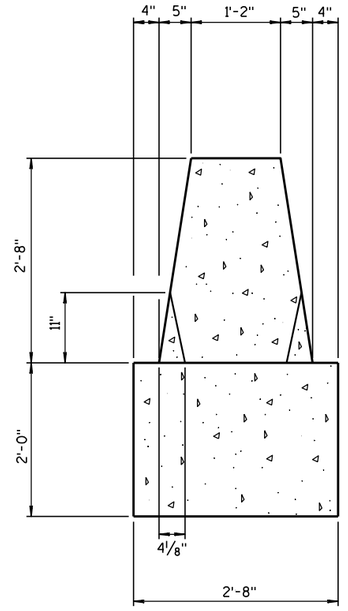


SECTION A-A

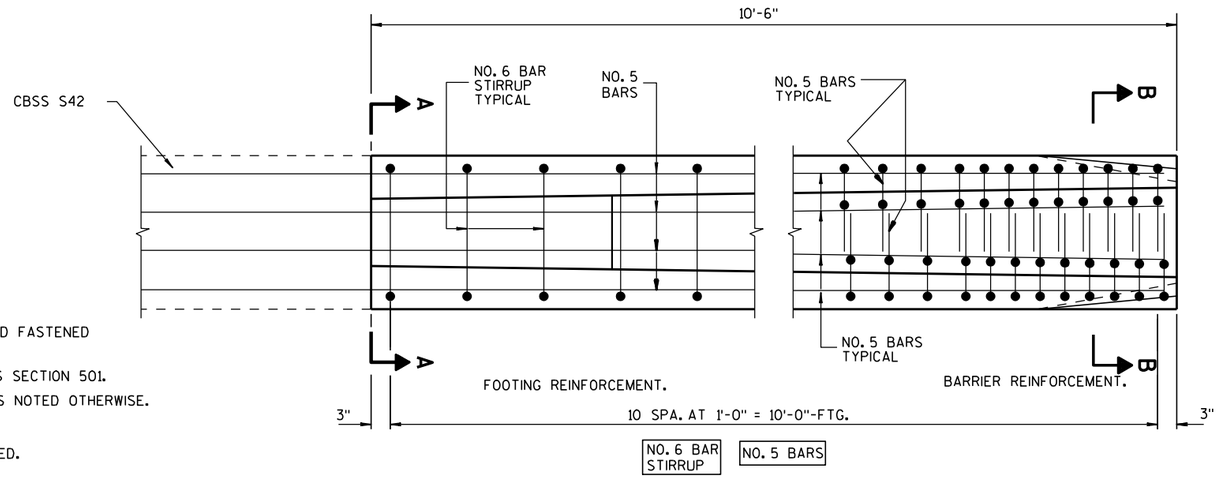


SEE SECTIONS ① THRU ⑯

ELEVATION VIEW



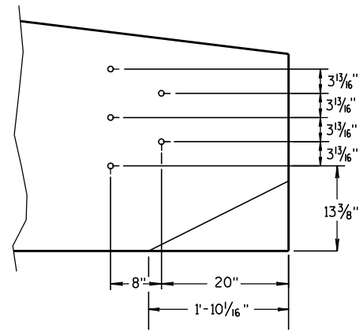
SECTION B-B



FOOTING REINFORCEMENT.

BARRIER REINFORCEMENT.

PLAN VIEW



PVC PIPE LOCATIONS

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2'LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS SECTION 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

THRIE BEAM ANCHOR INCIDENTAL TO CONCRETE BARRIER ITEM.

INSTALL SCHEDULE 40 PVC PIPE 1" DIAMETER AT LOCATIONS INDICATED.

EXTEND PVC PIPE COMPLETELY THROUGH BARRIER.

CUT ENDS OF PVC PIPE FLUSH WITH FINISHED FACE of BARRIER.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

2" CLEAR COVER TYPICAL.

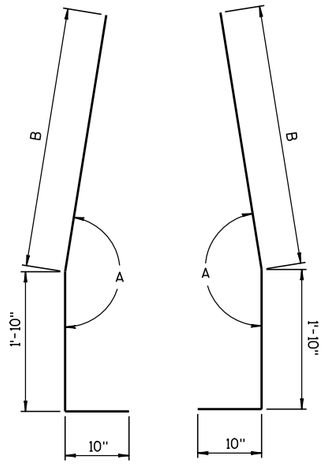
CONCRETE BARRIER SINGLE SLOPE 42" THRIE BEAM ANCHOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 33-1g

BAR CHART
SECTIONS V1 - V11

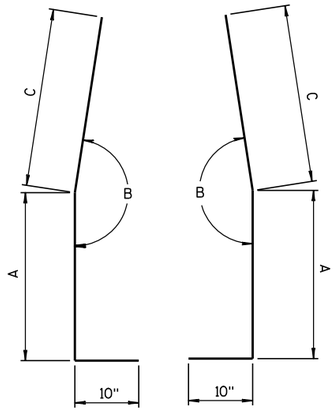
BAR	A	B
V1	170°-50'	3'-4½"
V2	171°-20'	3'-4½"
V3	171°-30'	3'-2½"
V4	171°-25'	3'-1½"
V5	171°-15'	3'-0"
V6	171°-15'	2'-11"
V7	171°-20'	2'-10½"
V8	171°-10'	2'-9½"
V9	171°-10'	2'-9"
V10	171°-05'	2'-8½"
V11	171°-10'	2'-8"



BAR BENDING DETAIL
FOR BARS V1 - V11

BAR CHART
SECTIONS V12 - V13

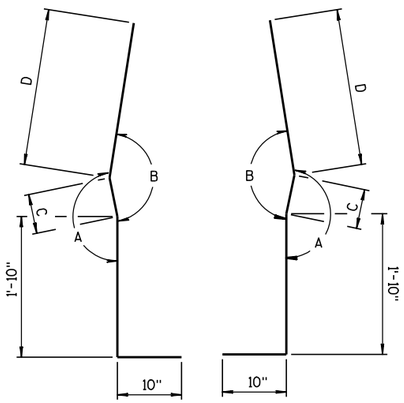
BAR	A	B	C
V12	2'-2"	171°-15'	2'-3½"
V13	2'-7"	171°-05'	1'-10"



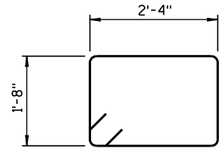
BAR BENDING DETAIL
FOR BARS V12 - V13

BAR CHART
SECTIONS V14 - V16

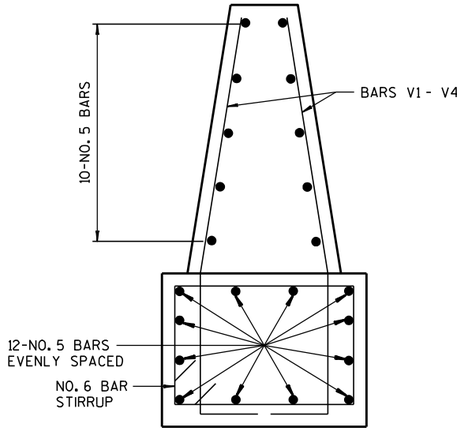
BAR	A	B	C	D
V14	168°-15'	159°-15'	6"	2'-0"
V15	169°-20'	161°-00'	8"	1'-10"
V16	168°-40'	160°-10'	10"	1'-8"



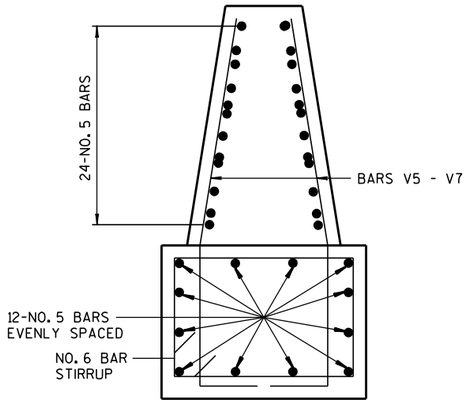
BAR BENDING DETAIL
FOR BARS V14 - V16



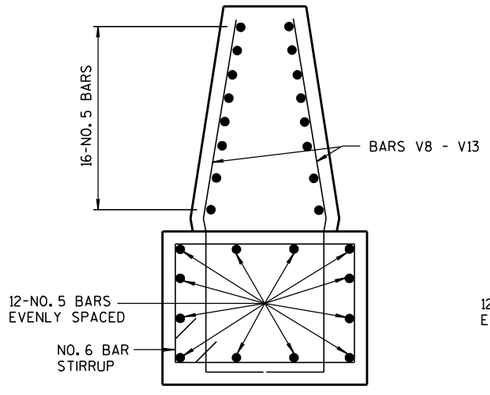
STIRRUP BAR
BENDING DETAIL



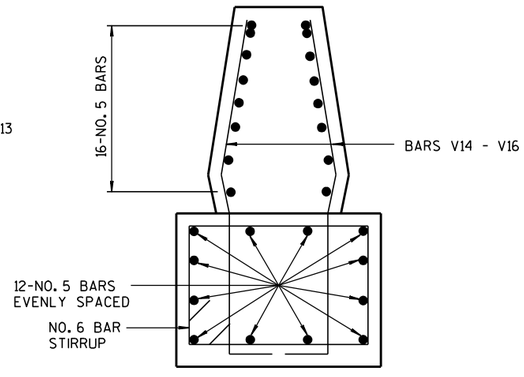
BAR DETAIL
SECTIONS V1 - V4



BAR DETAIL
SECTIONS V5 - V7



BAR DETAIL
SECTIONS V8 - V13



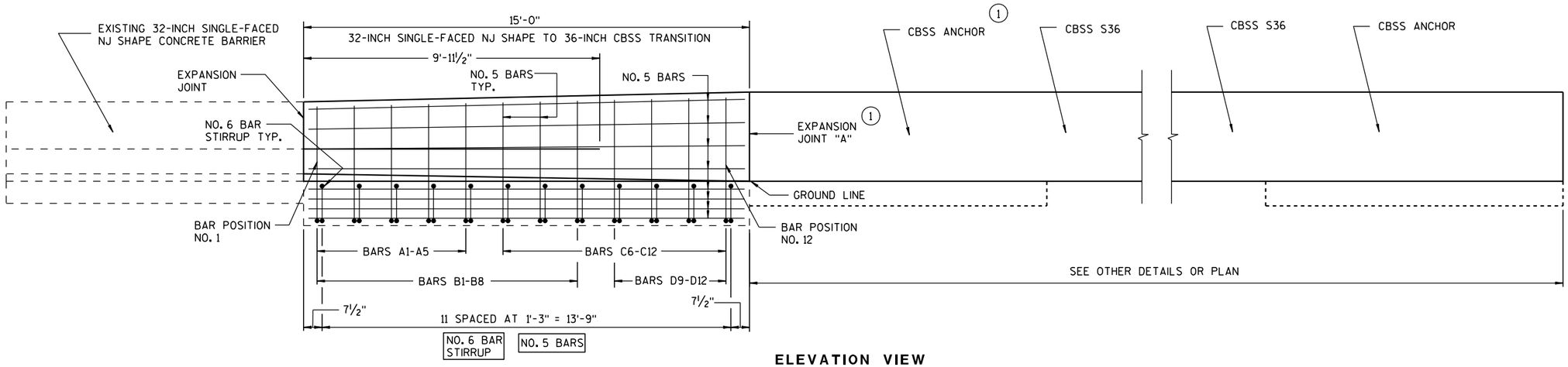
BAR DETAIL
SECTIONS V14 - V16

CONCRETE BARRIER
SINGLE SLOPE 42"
THRIE BEAM ANCHOR

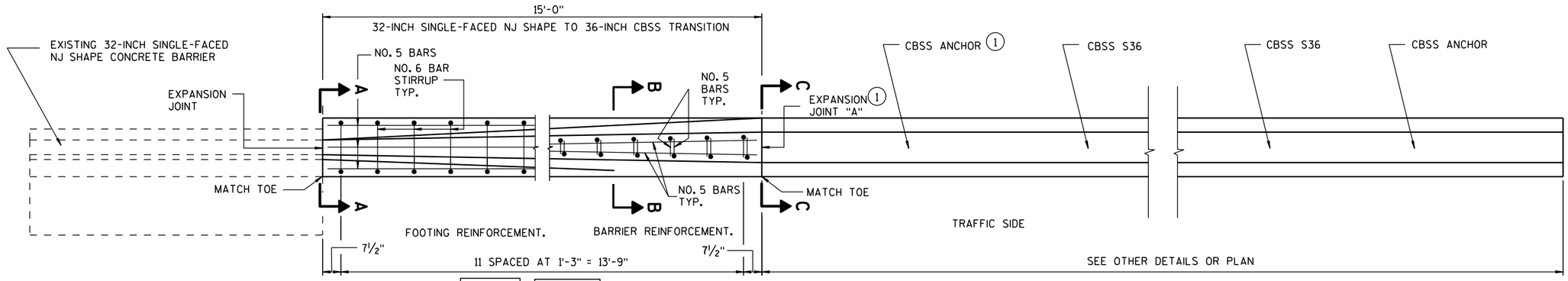
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6-3-2010 DATE
/S/ Jerry H. Z---
ROADWAY STANDARDS ENGINEER
FHWA

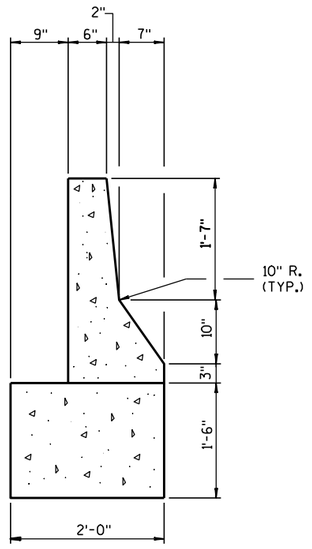
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S.D.D. 14 B 33-1h



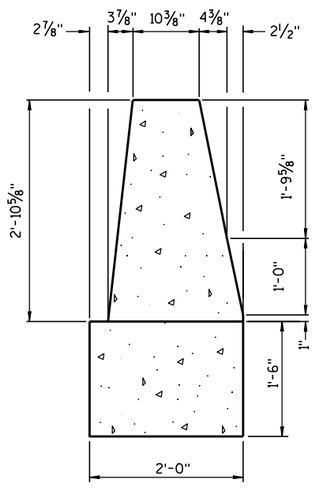
ELEVATION VIEW



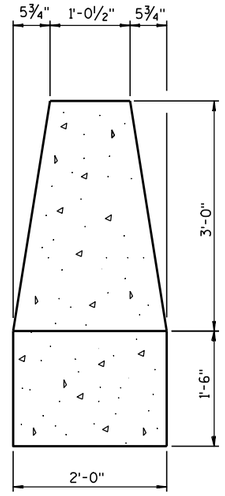
PLAN VIEW



SECTION A-A



SECTION B-B



SECTION C-C

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2'LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.

USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.

THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

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32-INCH SINGLE-FACED NJ SHAPE CONCRETE BARRIER TO 36-INCH SINGLE SLOPE CONCRETE BARRIER TRANSITION

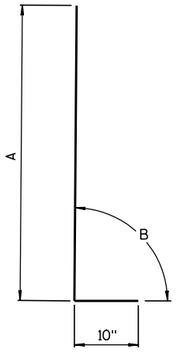
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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S.D.D. 14 B 35-1c

"A" BAR CHART
BAR POSITIONS NO.1 - NO.5

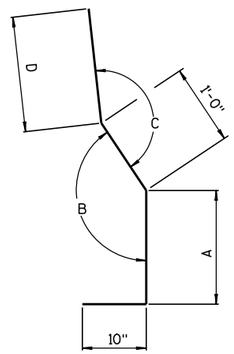
BAR	A	B
A1	3'-10"	89°-35'
A2	3'-10"	88°-40'
A3	3'-11"	87°-50'
A4	3'-11"	87°-10'
A5	3'-11½"	86°-15'



"A" BAR
BENDING DETAIL

"B" BAR CHART
BAR POSITIONS NO.1 - NO. 8

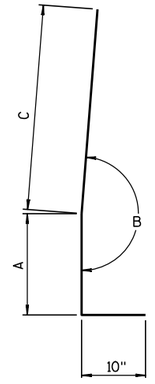
BAR	A	B	C	D
B1	1'-6"	146°-20'	152°-40'	1'-6"
B2	1'-6"	149°-25'	156°-45'	1'-6"
B3	1'-6"	152°-40'	160°-55'	1'-6½"
B4	1'-6"	155°-40'	164°-30'	1'-7"
B5	1'-5½"	158°-30'	167°-55'	1-'7"
B6	1'-5"	161°-45'	172°	1'-7½
B7	1'-5"	164°-25'	175°-05'	1'-8"
B8	1'-5"	167°-30'	179°	1'-8"



"B" BAR
BENDING DETAIL

"C" BAR CHART
BAR POSITIONS NO. 6 - NO. 12

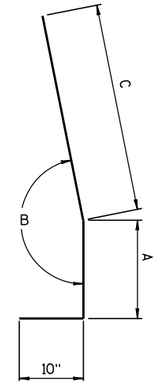
BAR	A	B	C
C6	1'-4"	175°-35'	2'-8"
C7	1'-4"	174°-45'	2'-8"
C8	1'-4"	174°	2'-8½"
C9	1'-4"	173°-15'	2'-9"
C10	1'-4"	172°-45'	2'-9½"
C11	1'-3½"	172°	2'-9½"
C12	1'-3½"	171°-15'	2'-10"



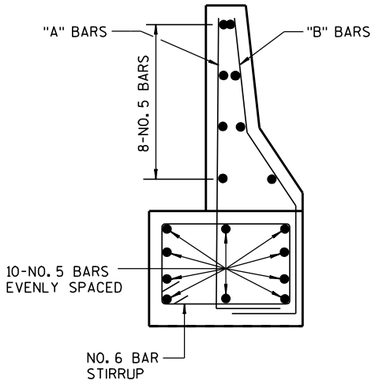
"C" BAR
BENDING DETAIL

"D" BAR CHART
BAR POSITIONS NO. 9 - NO. 12

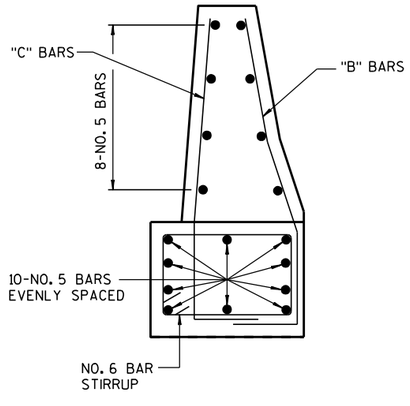
BAR	A	B	C
D9	1'-5"	168°-45'	2'-8½"
D10	1'-4½"	169°-30'	2'-9"
D11	1'-4"	170°-15'	2'-9½"
D12	1'-4"	170°-40'	2'-10"



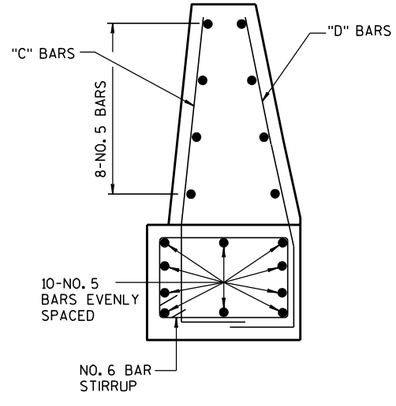
"D" BAR
BENDING DETAIL



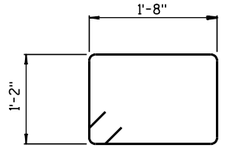
BAR DETAIL
BAR POSITIONS NO. 1 - NO. 5



BAR DETAIL
BAR POSITION NO. 6 - NO. 8



BAR DETAIL
BAR POSITIONS NO. 9 - NO. 12



STIRRUP BAR
BENDING DETAIL

32-INCH SINGLE-FACED NJ SHAPE
CONCRETE BARRIER TO 36-INCH SINGLE
SLOPE CONCRETE BARRIER TRANSITION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

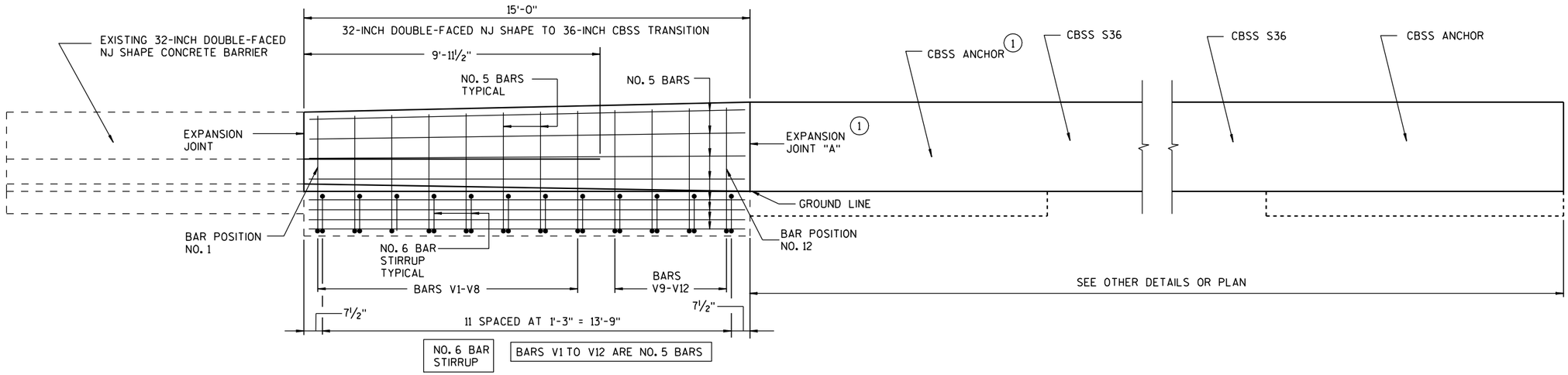
APPROVED
6-3-2010
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

6

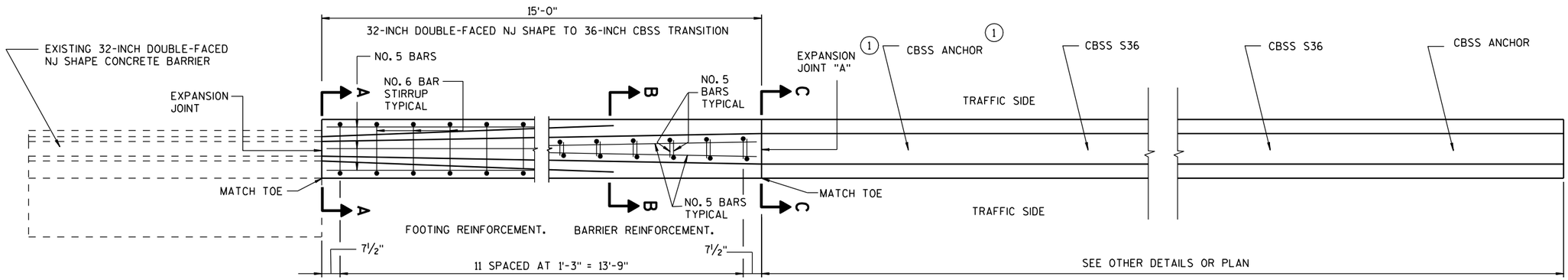
S.D.D. 14 B 35-1d

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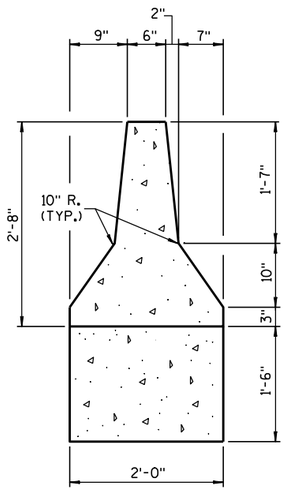
S.D.D. 14 B 35-1d



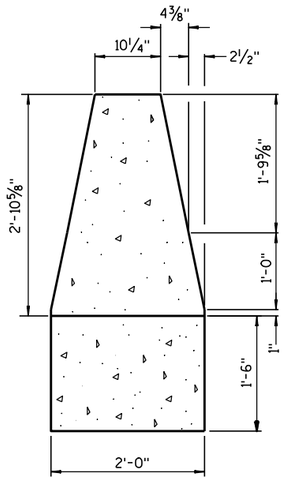
ELEVATION VIEW



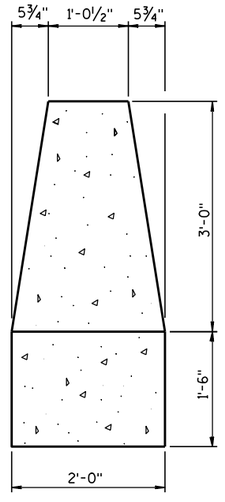
PLAN VIEW



SECTION A-A



SECTION B-B



SECTION C-C

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

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32-INCH DOUBLE-FACED NJ SHAPE CONCRETE BARRIER TO 36-INCH SINGLE SLOPE CONCRETE BARRIER TRANSITION

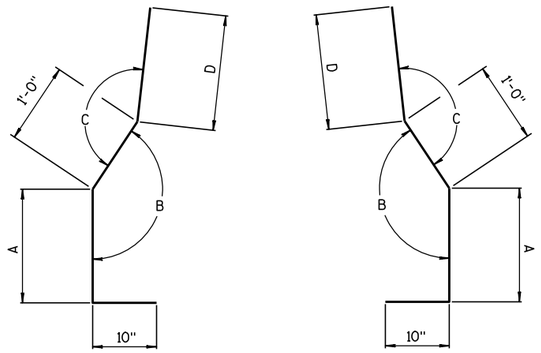
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 37-1c

BAR CHART
BARS V1 - V8

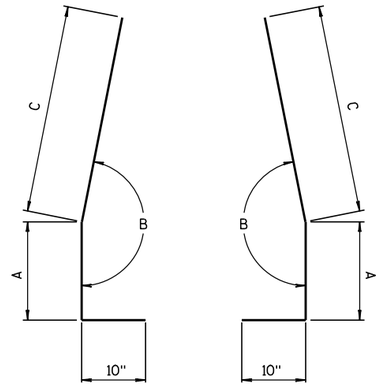
BAR	A	B	C	D
V1	1'-6"	146°-20'	152°-40'	1'-6"
V2	1'-6"	149°-25'	156°-45'	1'-6"
V3	1'-6"	152°-40'	160°-55'	1'-6½"
V4	1'-6"	155°-40'	164°-30'	1'-7"
V5	1'-5½"	158°-30'	167°-55'	1'-7"
V6	1'-5"	161°-45'	172°	1'-7½
V7	1'-5"	164°-25'	175°-05'	1'-8"
V8	1'-5"	167°-30'	179°	1'-8"



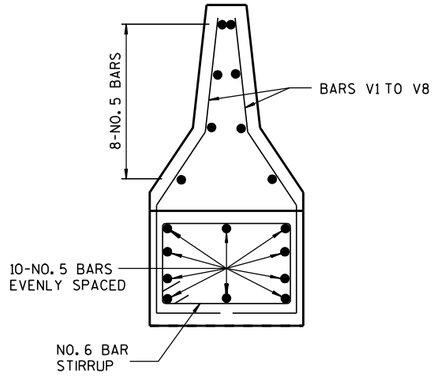
BAR BENDING DETAIL
FOR BARS V1 - V8

BAR CHART
BARS V9 - V12

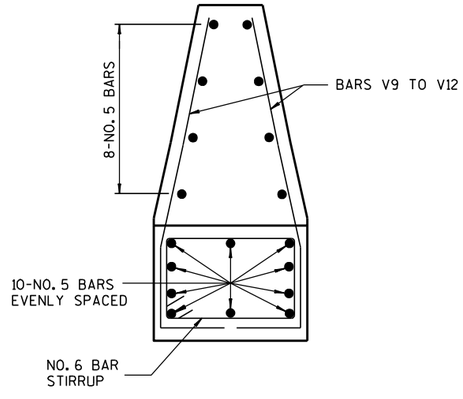
BAR	A	B	C
V9	1'-5"	167°-45'	2'-8½"
V10	1'-4½"	169°-30'	2'-9"
V11	1'-4"	170°-15'	2'-9½"
V12	1'-4"	170°-40'	2'-10"



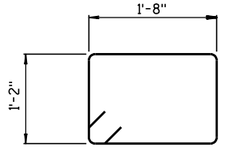
BAR BENDING DETAIL
FOR BARS V9 - V12



BAR DETAIL
BARS V1 - V8



BAR DETAIL
BARS V9 - V12



STIRRUP BAR
BENDING DETAIL

32-INCH DOUBLE-FACED NJ SHAPE CONCRETE BARRIER TO 36-INCH SINGLE SLOPE CONCRETE BARRIER TRANSITION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6-3-2010
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

847

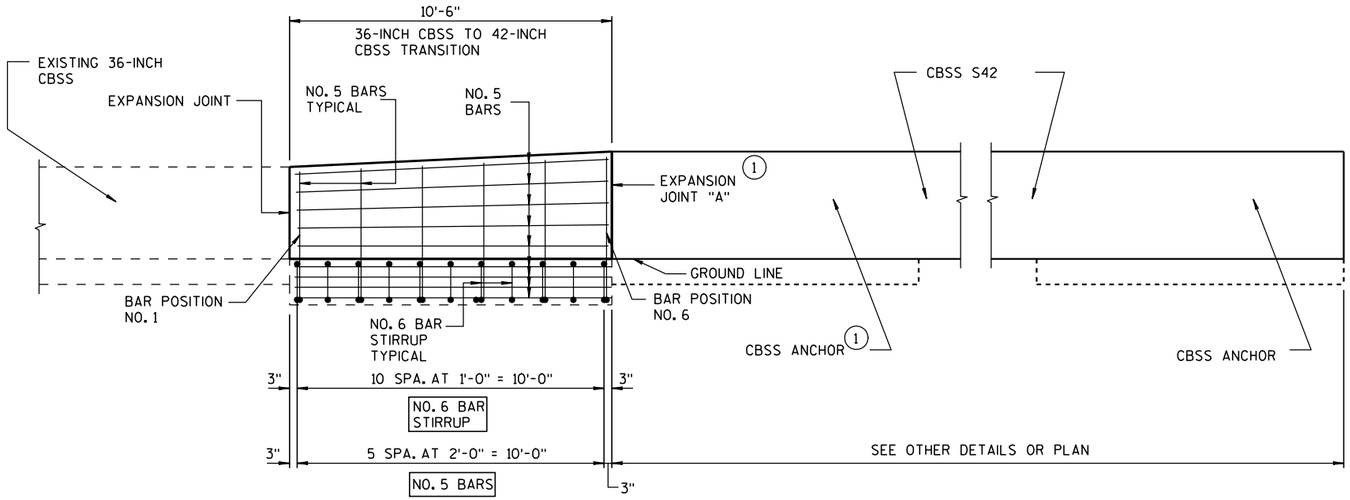
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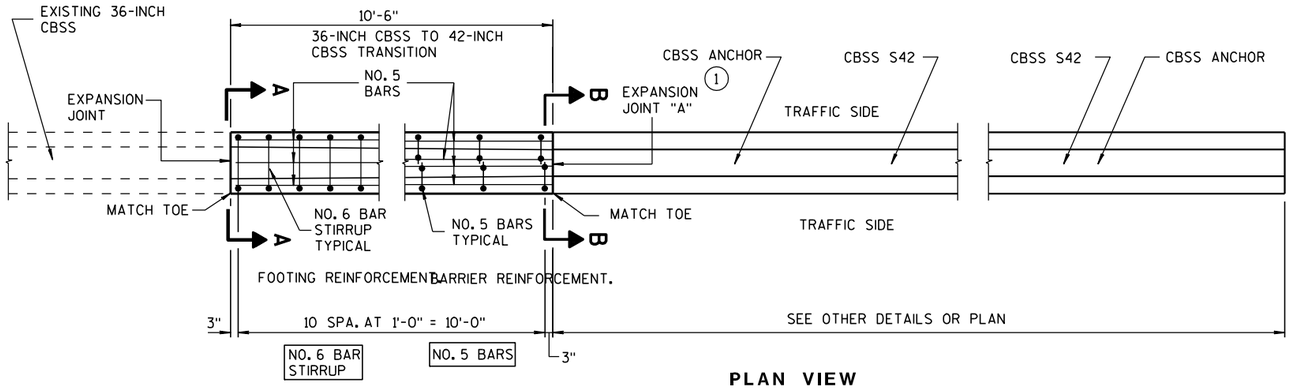
S.D.D. 14 B 37-1d

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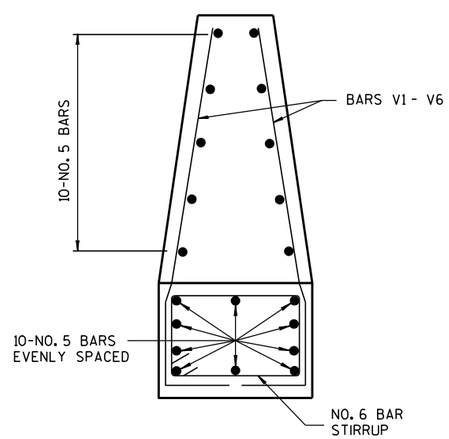
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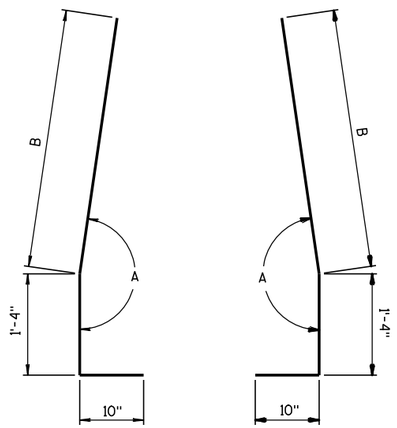
ELEVATION VIEW



PLAN VIEW



BAR DETAIL
BAR POSITION NO. 1 - NO. 6



BAR BENDING DETAIL
FOR BARS V1 - V6

GENERAL NOTES

CONSTRUCT PER STANDARD SPECIFICATION 603.

SPLICES OF LONGITUDINAL BARS TO BE 2'LONG AND FIRMLY TIED AND FASTENED TOGETHER UNLESS NOTED OTHERWISE.

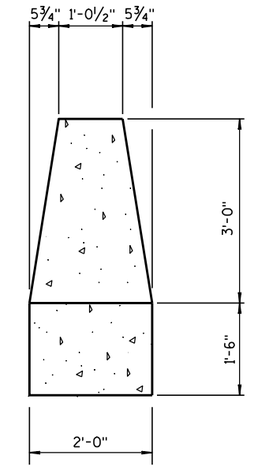
4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.

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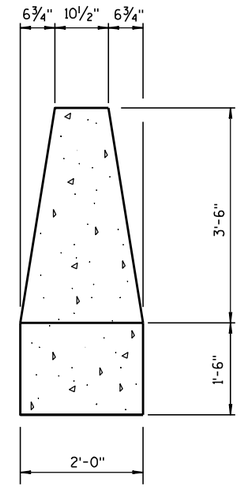
THE NUMBER IN BAR DESIGNATION REPRESENTS THE BARS LOCATION.

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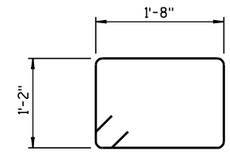
SECTION A-A



SECTION B-B

BAR CHART
SECTIONS V1 - V6

BAR	A	B
V1	170°-55'	2'-10½"
V2	171°-05'	3'-0"
V3	171°-20'	3'-1"
V4	171°-20'	3'-2"
V5	171°-35'	3'-3"
V6	171°-40'	3'-4½"



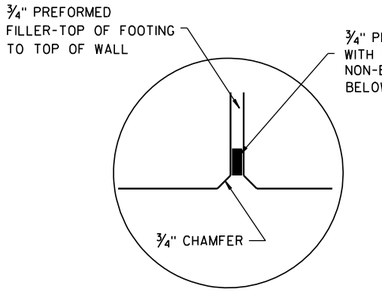
STIRRUP BAR
BENDING DETAIL

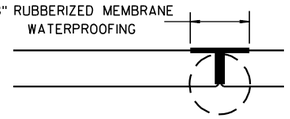
36-INCH SINGLE SLOPE CONCRETE BARRIER TO 42-INCH SINGLE SLOPE CONCRETE BARRIER HEIGHT TRANSITION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

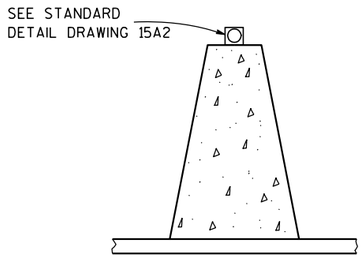
APPROVED
6-3-2010
DATE
/S/ Jerry H. Zaa
ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 39-1c





VERTICAL EXPANSION JOINT



DELINEATION

SPACING FOR DELINEATORS ON HORIZONTAL CURVES

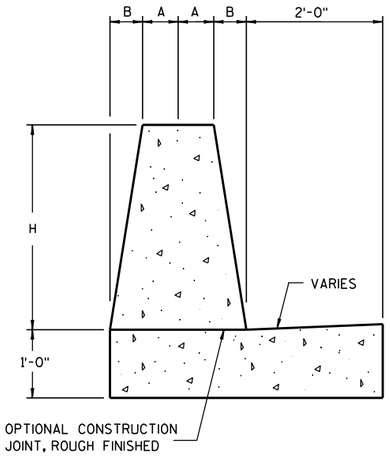
RADIUS OF CURVE	APPROXIMATE SPACING ON CURVE
50 FEET	20 FEET
115 FEET	25 FEET
180 FEET	35 FEET
250 FEET	40 FEET
300 FEET	50 FEET
400 FEET	55 FEET
500 FEET	65 FEET
600 FEET	70 FEET
700 FEET	75 FEET
800 FEET	80 FEET
900 FEET	85 FEET
1000 FEET	90 FEET

GENERAL NOTES

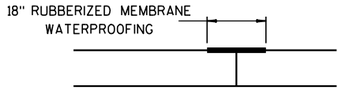
PROVIDE EXPANSION JOINTS WHERE EXISTING EXPANSION JOINTS OR AT THE END OF EACH POUR.

NO HORIZONTAL STEEL CROSSES EXPANSION JOINTS.

CONSTRUCT PER STANDARD SPECIFICATION 603.
SPLICES OF LONGITUDINAL BARS TO BE 2' LONG AND FIRMLY TIED AND FASETENED TOGETHER UNLESS NOTED OTHERWISES.
4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATIONS 501.
USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS NOTED OTHERWISE.
2" CLEAR COVER (TYP.)

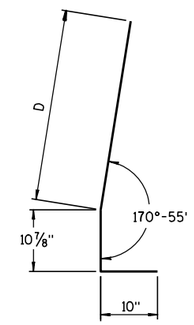


ROADSIDE RETAINING WALL

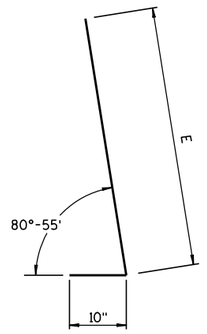


CONSTRUCTION JOINT

BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF NO. 5 BARS EACH
36	6¼	5¾	8
42	5¼	6¾	10
56	3	9	11



V1 BAR BENDING DETAIL



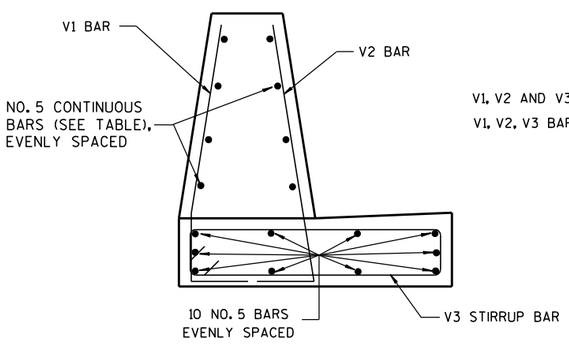
V2 BAR BENDING DETAIL

REFLECTOR SPACING

	LENGTH OF BARRIER	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2	3

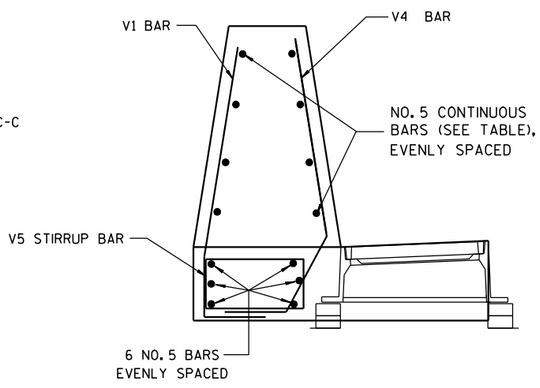
BAR CHART ROADSIDE RETAINING WALL

BARRIER HEIGHT	V1 BAR D	V2 BAR E	V4 BAR F
36"	2'-9⅝"	3'-9¾"	2'-8"
42"	3'-3⅝"	4'-2⅝"	3'-2⅛"
56"	4'-7½"	5'-6½"	4'-4⅜"

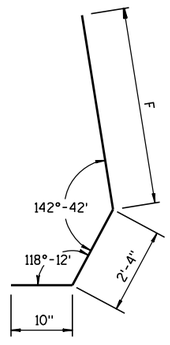


V1, V2 AND V3 ARE SPACED 18" C-C
V1, V2, V3 BARS ARE NO. 5 BARS

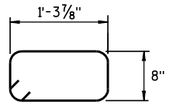
ROADSIDE RETAINING WALL NORMAL BAR PLACEMENT



ROADSIDE RETAINING WALL BAR PLACEMENT NEAR INLET



V4 BAR BENDING DETAIL



V5 STIRRUP BAR BENDING DETAIL

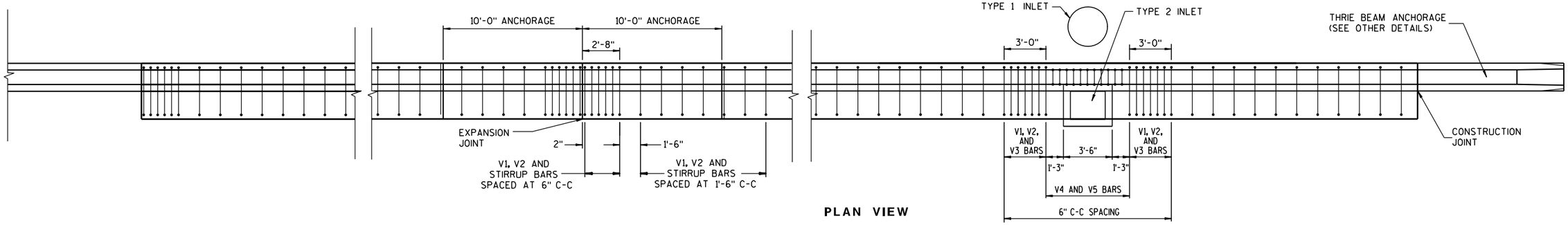


V3 STIRRUP BAR BENDING DETAIL

SINGLE SLOPE ROADSIDE RETAINING WALL

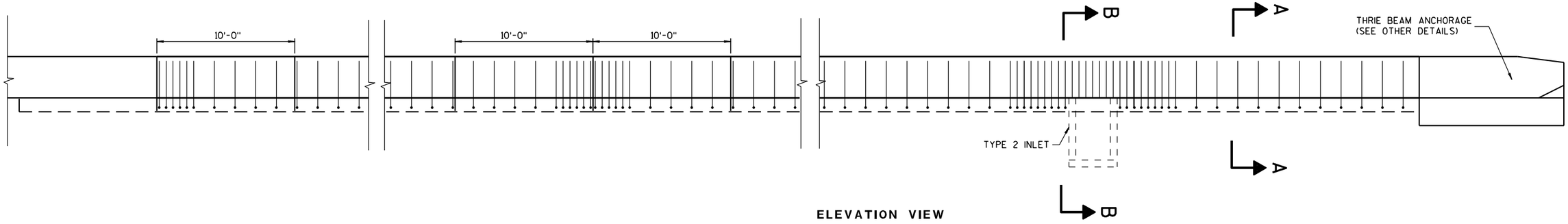
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 41-1a



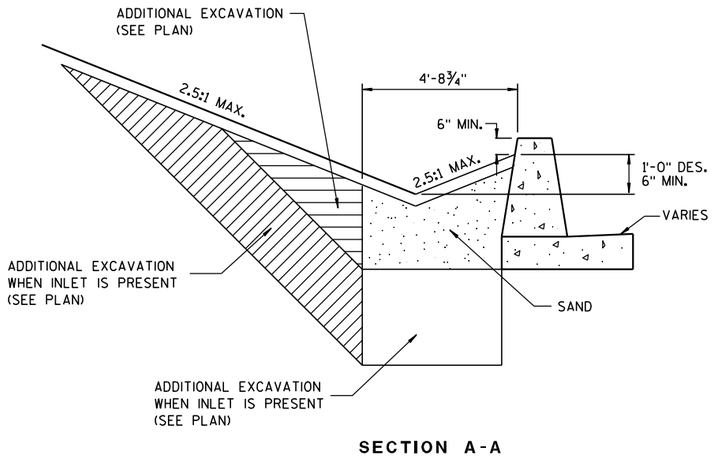
PLAN VIEW

NOTE: HORIZONTAL BARS ARE NOT SHOWN
SEE OTHER DETAILS FOR HORIZONTAL BARS.

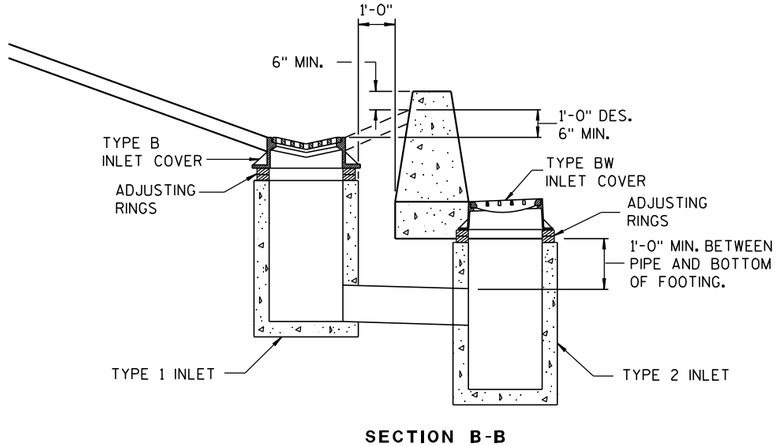


ELEVATION VIEW

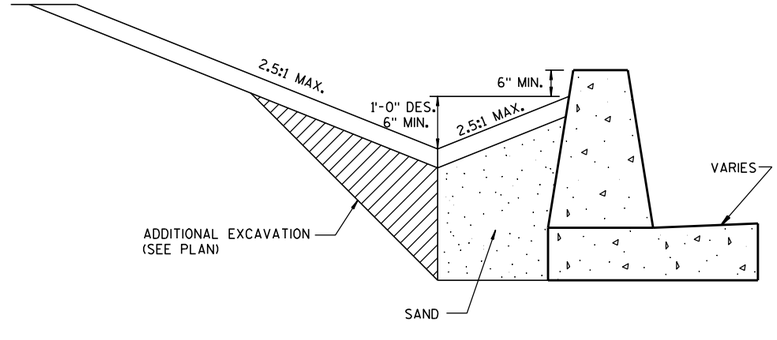
NOTE: HORIZONTAL BARS ARE NOT SHOWN
SEE OTHER DETAILS FOR HORIZONTAL BARS.



SECTION A-A



SECTION B-B



MINIMUM DESIGN OF EARTH WORK

MINIMUM DESIGN OF EARTH WORK FOR INLET

SINGLE SLOPE ROADSIDE RETAINING WALL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/13/2011
DATE

/S/ Jerry H. Zaga
ROADWAY STANDARDS ENGINEER

850

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FHWA

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S.D.D. 14 B 41-1b

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S.D.D. 14 B 41-1b

GENERAL NOTES

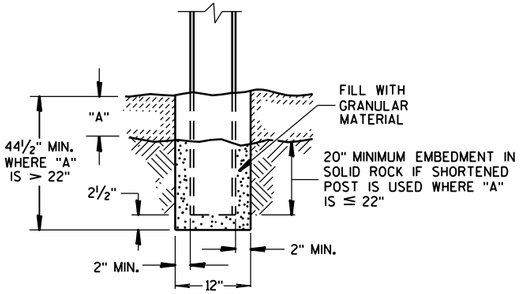
1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

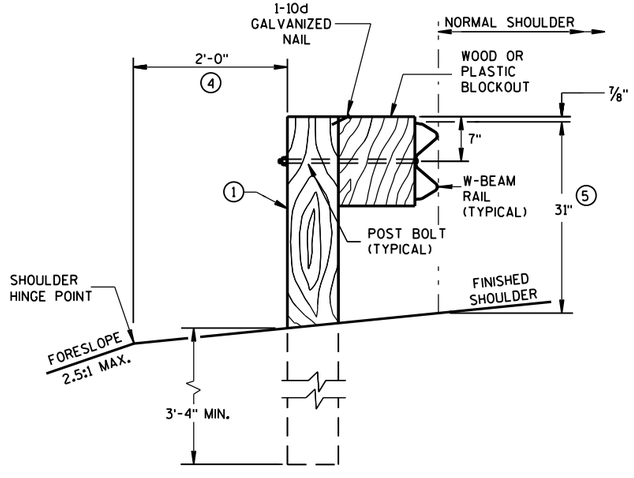
3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

4. WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

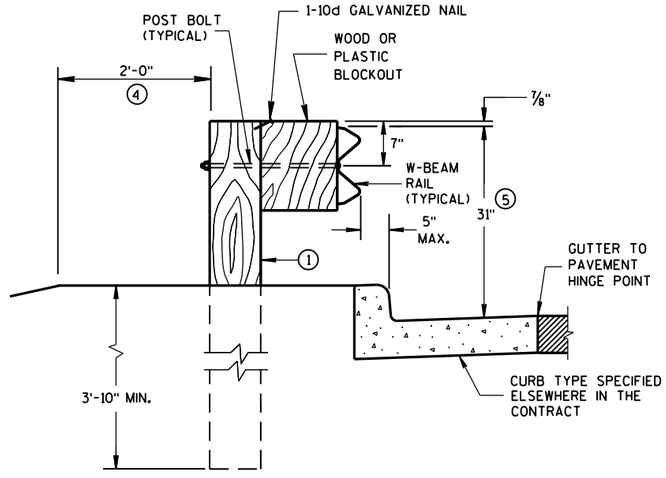


END VIEW
SETTING STEEL OR WOOD POST IN ROCK ③



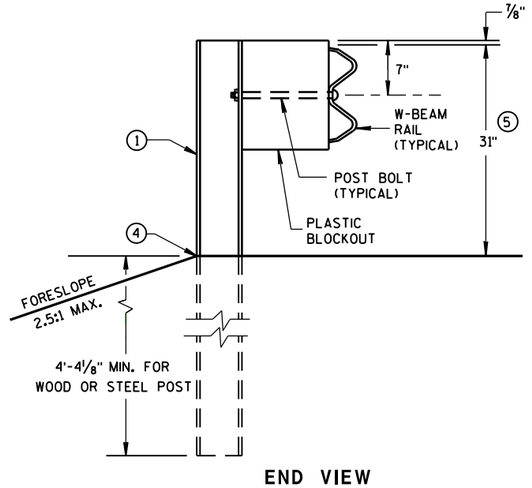
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



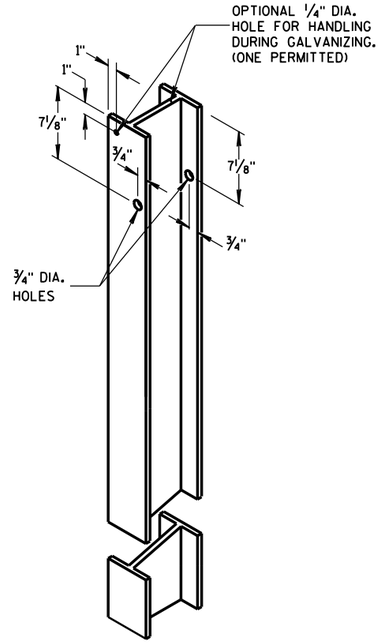
END VIEW

LOCATED ALONG A CURBED ROADWAY

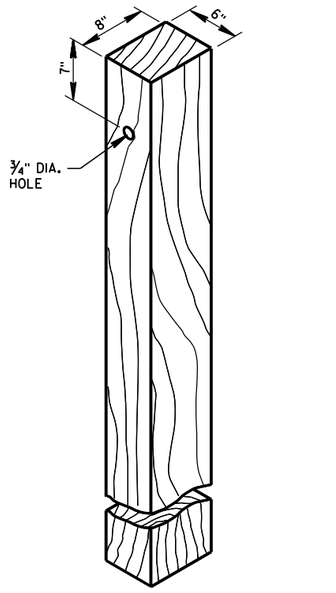


END VIEW

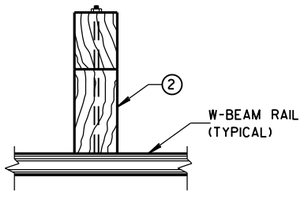
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



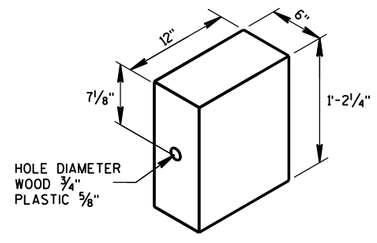
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



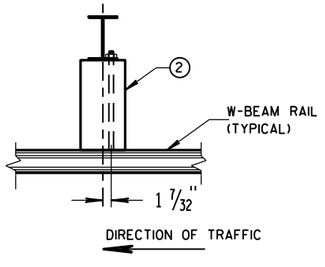
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

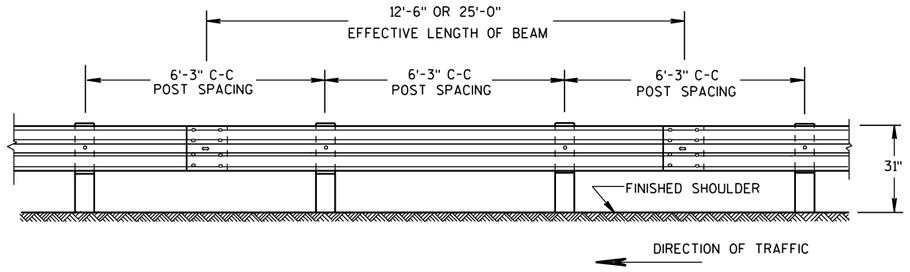


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

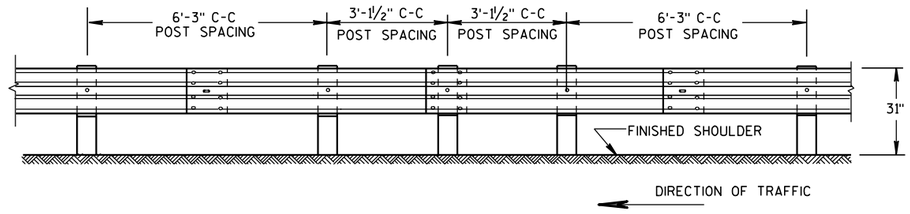
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 42-2a



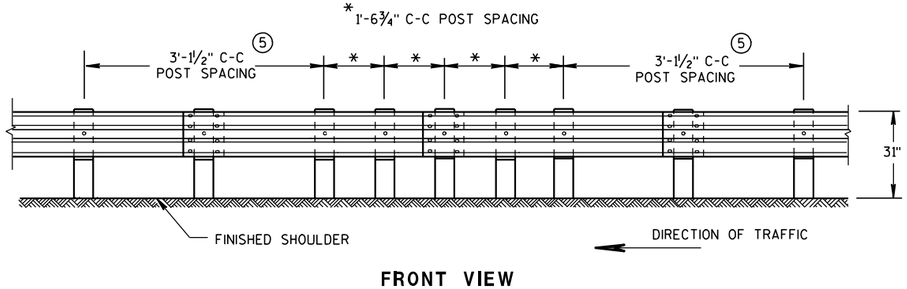
FRONT VIEW

POST SPACING STANDARD INSTALLATION



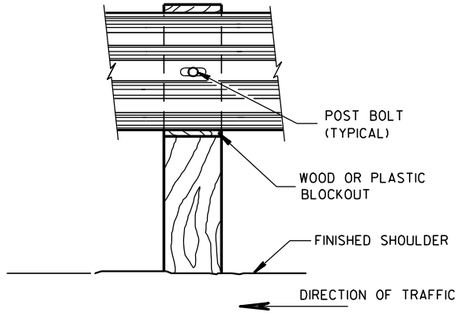
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

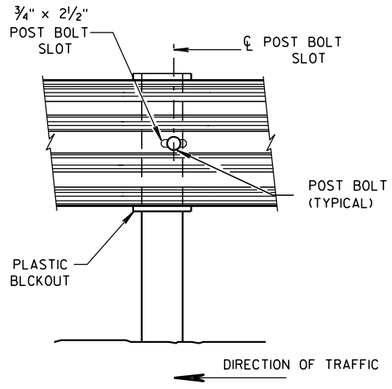


FRONT VIEW

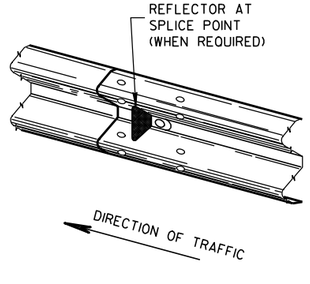
QUARTER POST SPACING (QS)

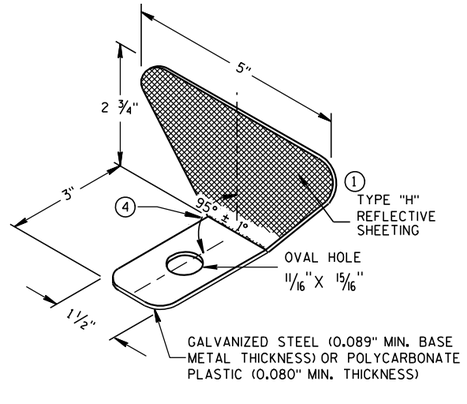


FRONT VIEW AT WOOD POST

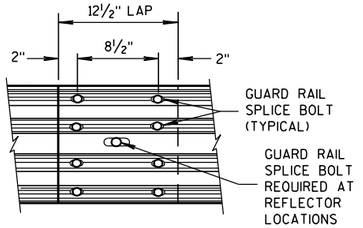


FRONT VIEW AT STEEL POST

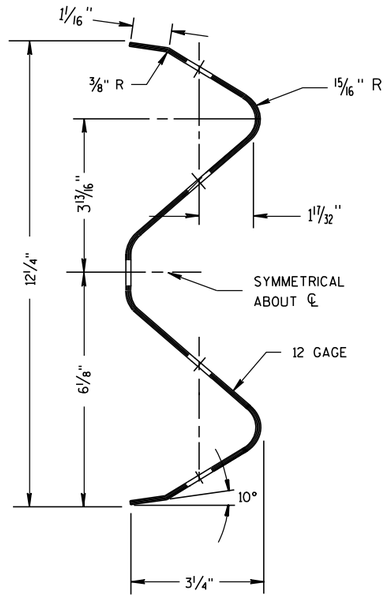




ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ①



FRONT VIEW
MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL

GENERAL NOTES

① PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.

② DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

③ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

④ PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

⑤ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

REFLECTOR SPACING ②

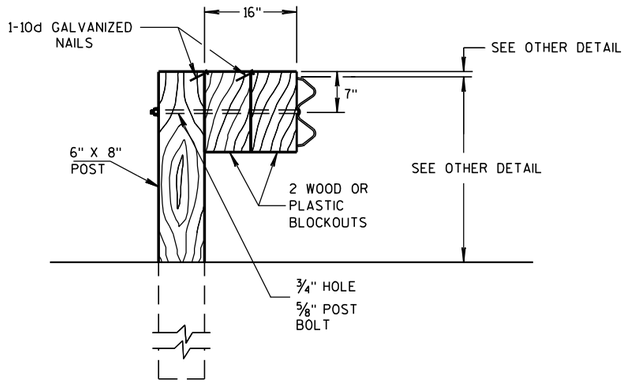
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 ③ 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 ④ 2	3

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

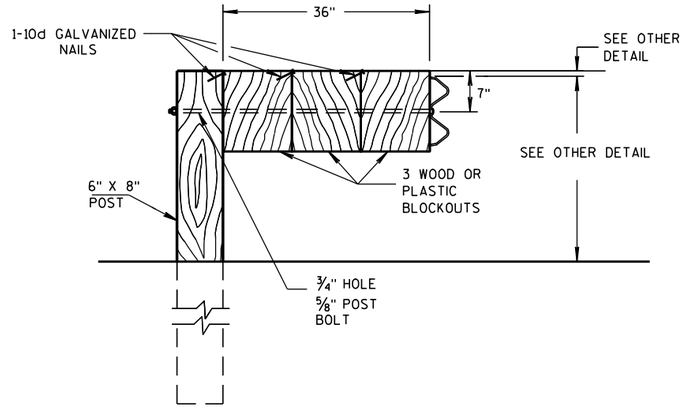
S.D.D. 14 B 42-2b

S.D.D. 14 B 42-2b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

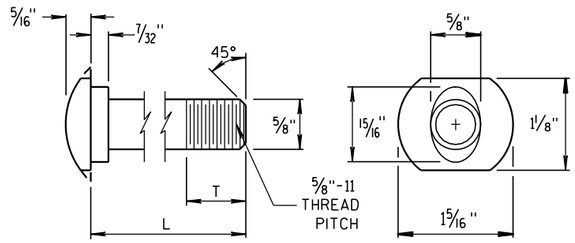


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

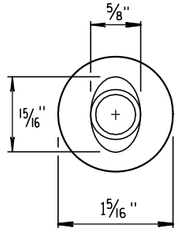
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

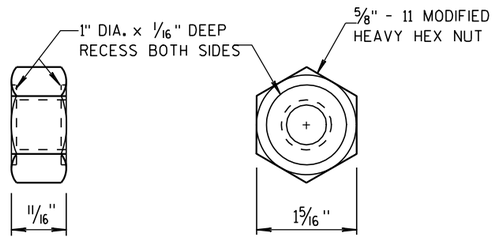


POST BOLT TABLE

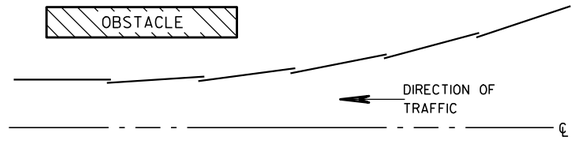
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

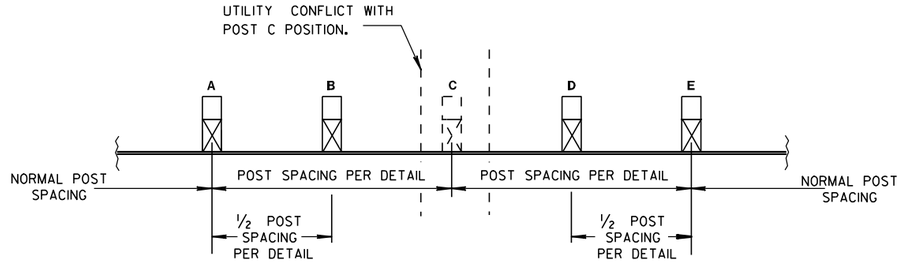


POST BOLT AND RECESS NUT

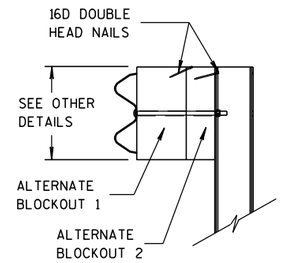


PLAN VIEW

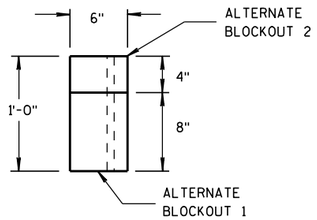
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/15/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

853

FHWA

ENT

6

S.D.D. 14 B 42-2c

6

S.D.D. 14 B 42-2c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE EXTENDED VEHICLE RUNOUT PATH (EVRP), THE HINGE POINT LINE (HPL),AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

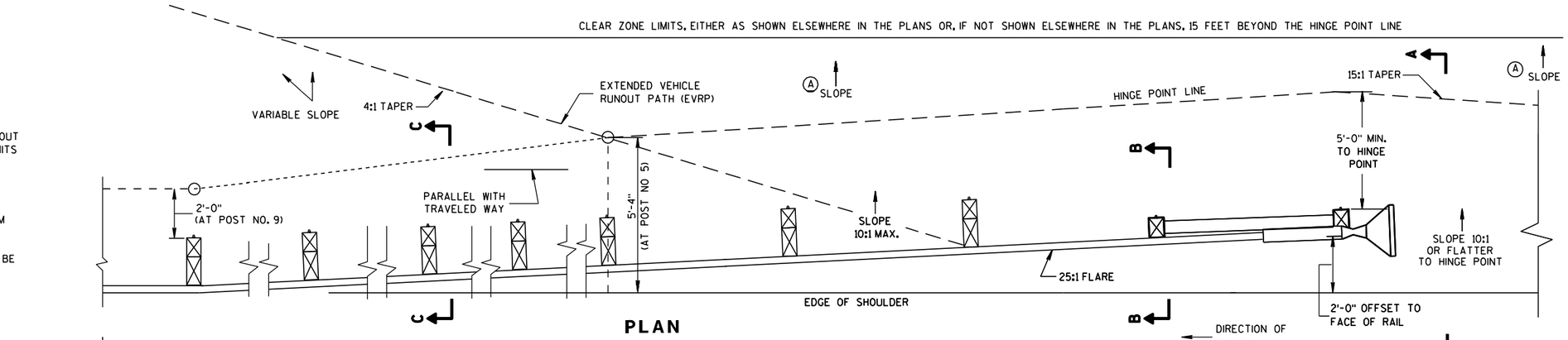
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

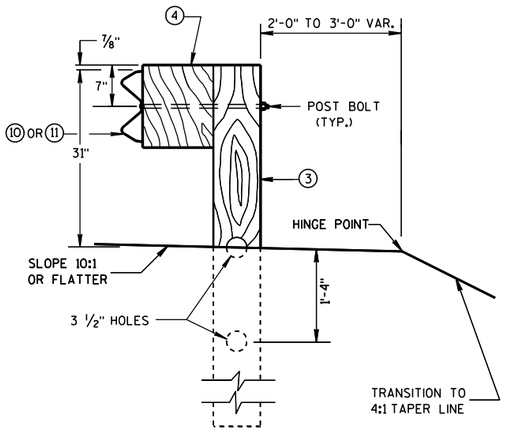
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

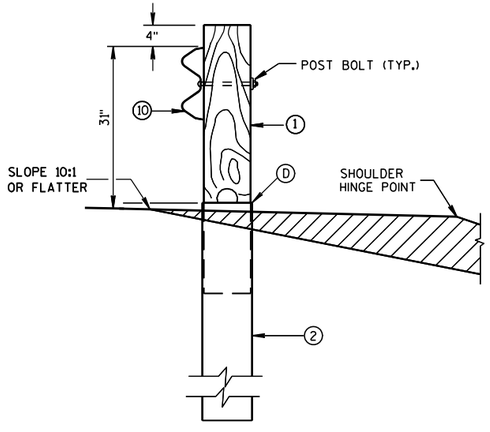
PATTERN AND COLORS ON REFLECTIVE SHEETING TYPE H ARE TO CONFORM TO OM3-L OR OM3-R OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE (± ¾")

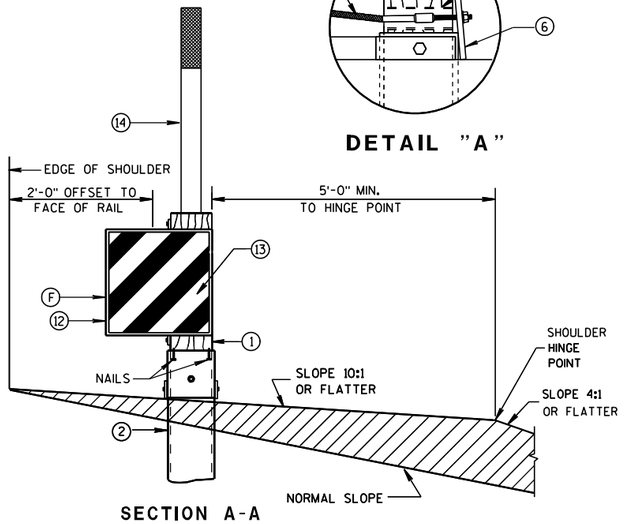




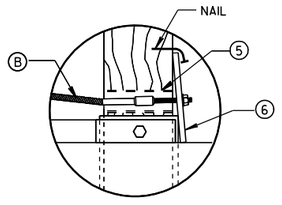
SECTION C-C
TYPICAL AT POST NOS. 3-9



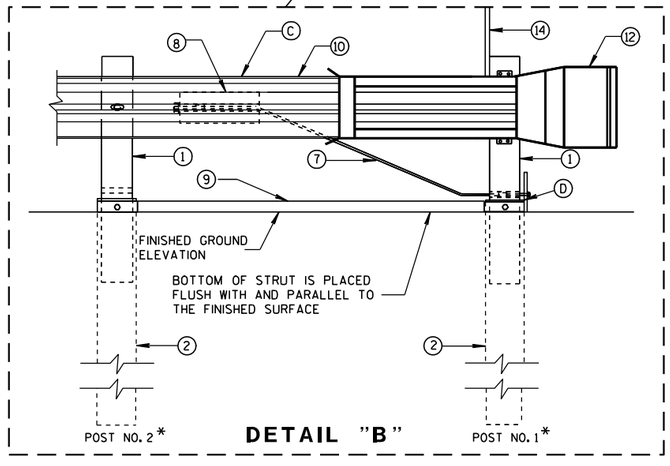
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



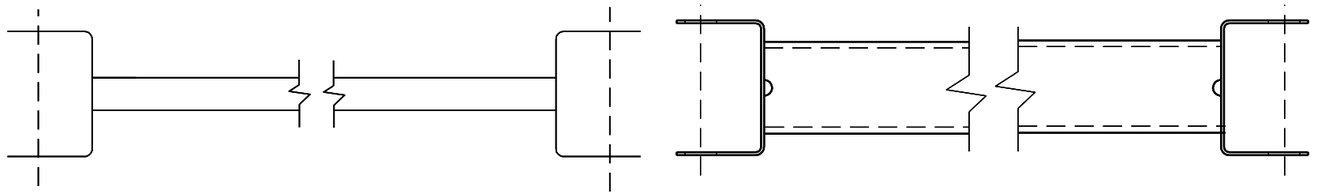
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 14 B 44-1a

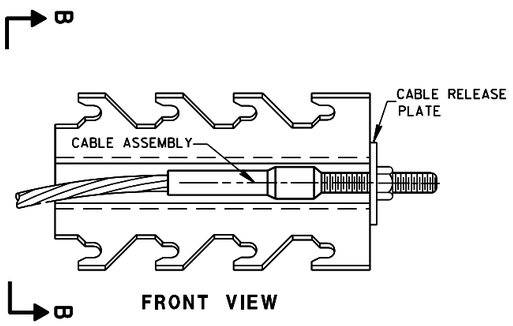
6



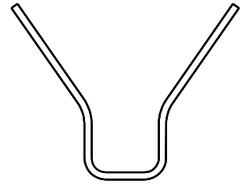
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

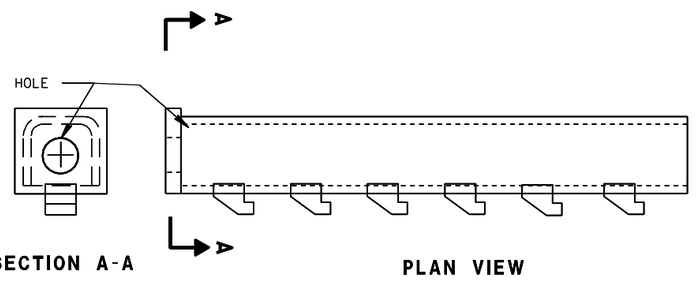
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



FRONT VIEW



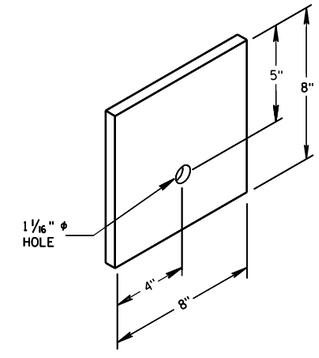
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)



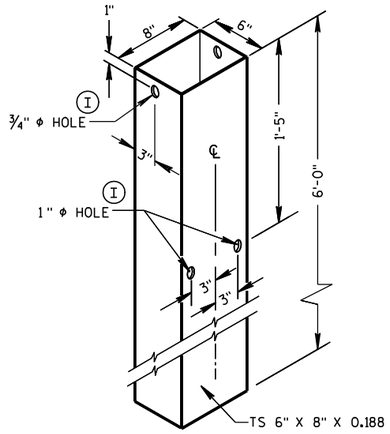
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

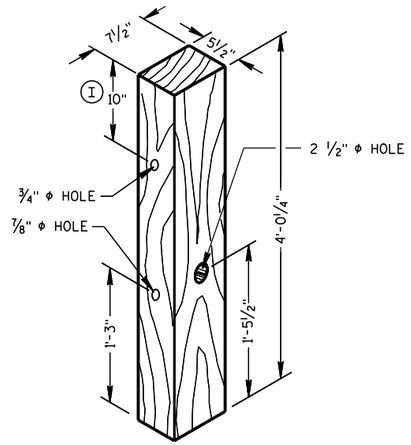
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 44-1b

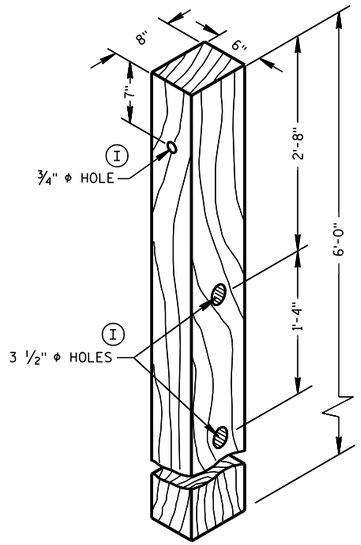


FOUNDATION TUBE (2)



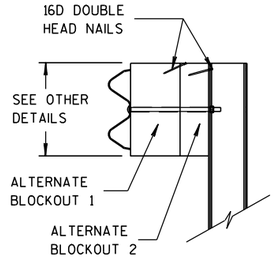
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

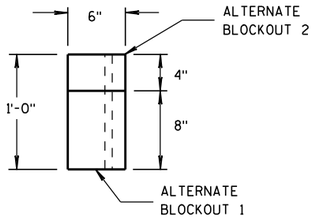


POSTS NUMBER 3-9

WOOD CRT POST (3)

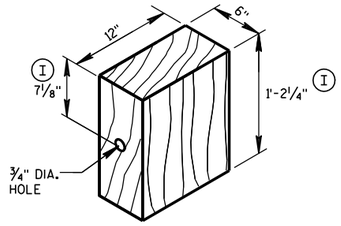


SIDE VIEW



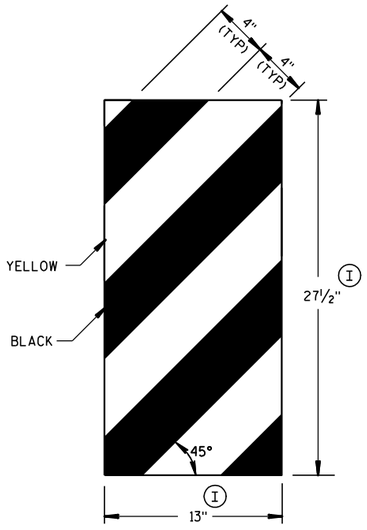
TOP VIEW

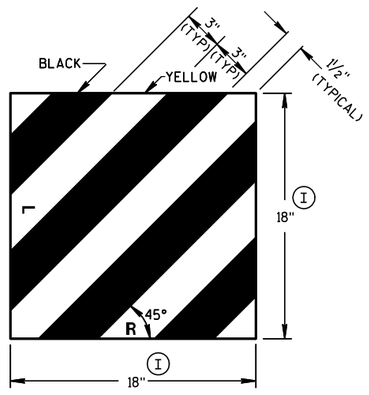
ALTERNATE WOOD BLOCKOUT DETAIL



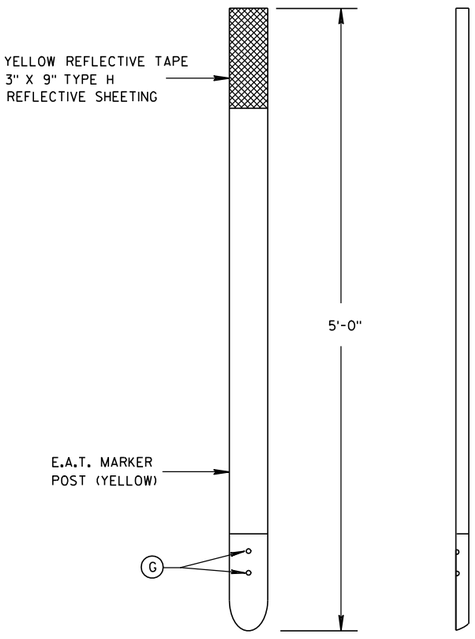
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





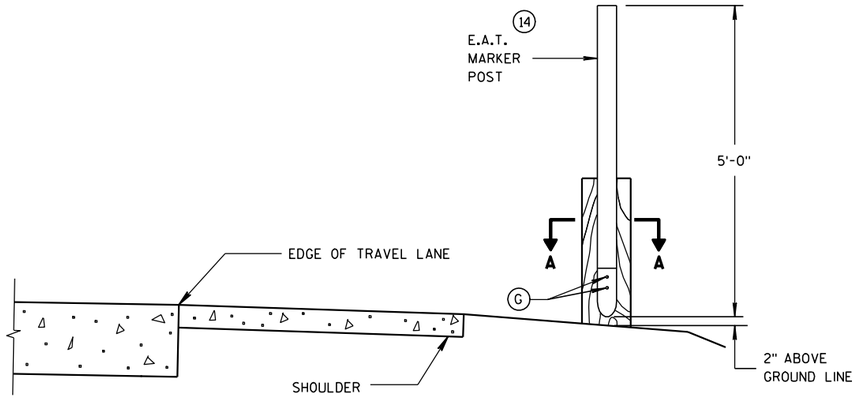
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

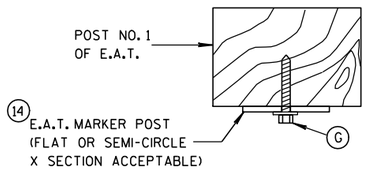
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS 856 [illegible]
ENGINEER

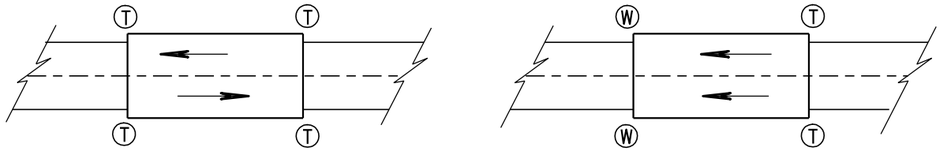
FHWA

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S.D.D. 14 B 44-1c

6

S.D.D. 14 B 44-1c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

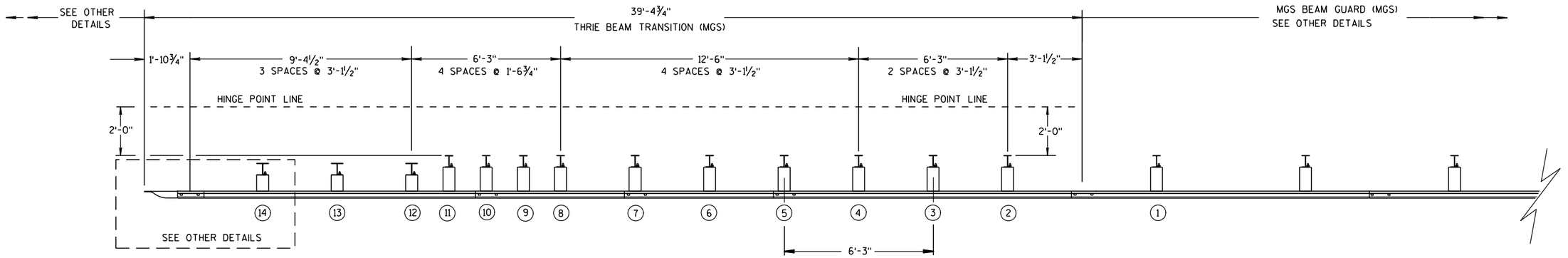
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

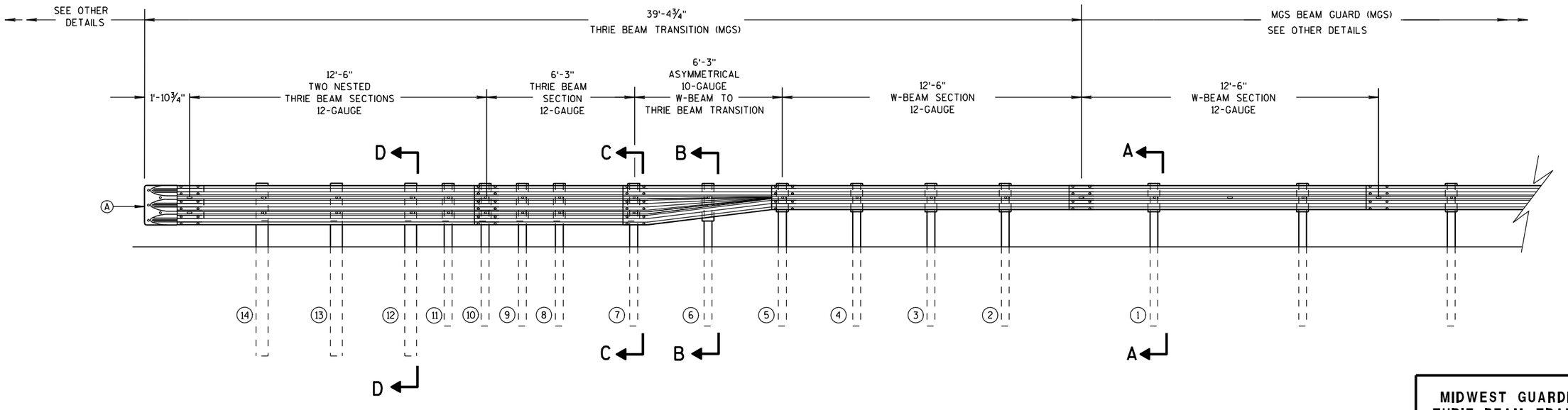
TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

Ⓐ BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

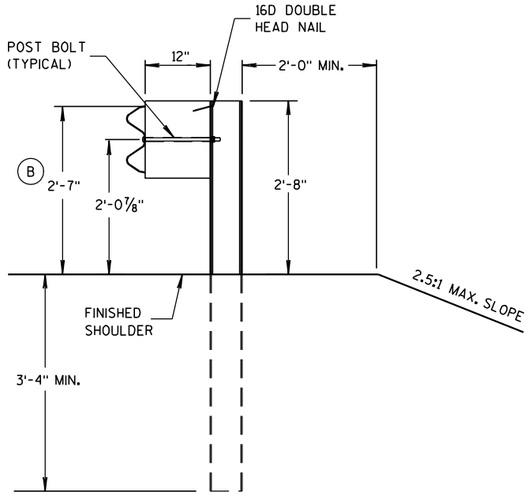
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6
S.D.D. 14 B 45-3a

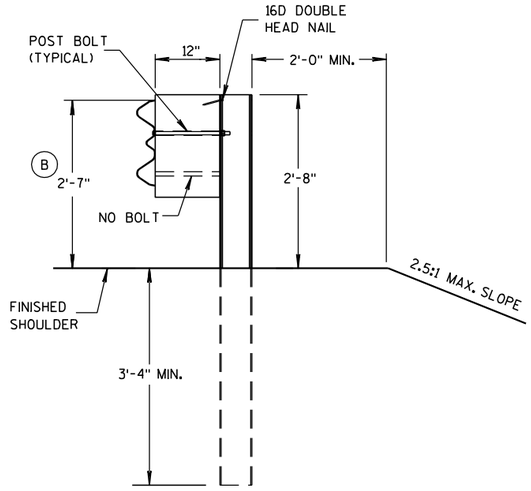
GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



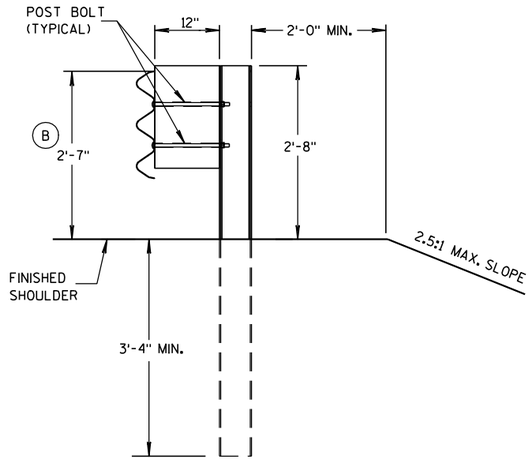
SECTION A-A

POSTS 1-5



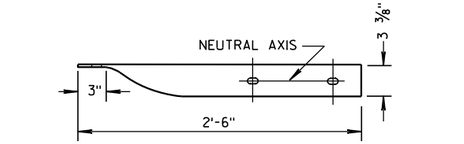
SECTION B-B

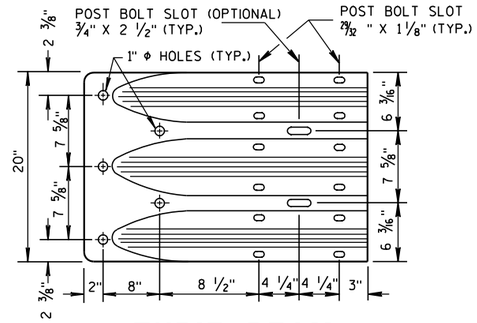
POST 6



SECTION C-C

POSTS 7-11





THRIE BEAM TERMINAL CONNECTOR

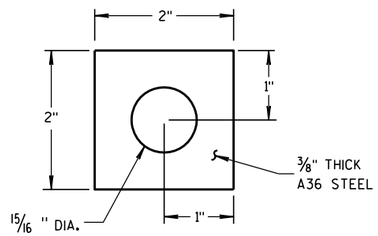
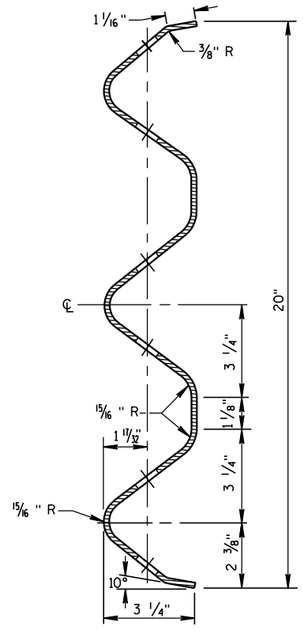
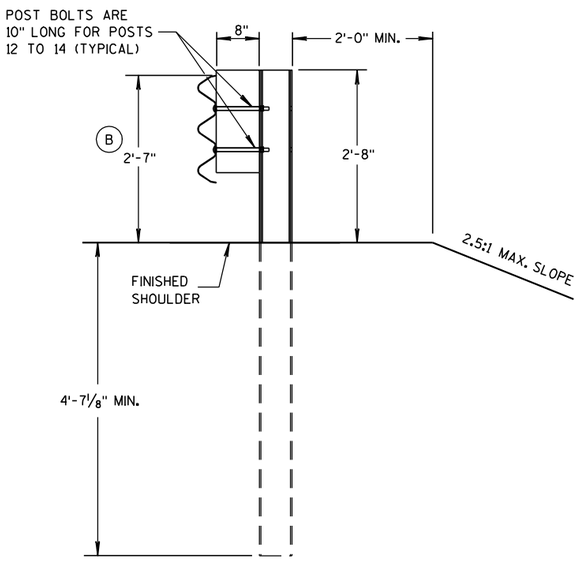


PLATE WASHER DETAIL

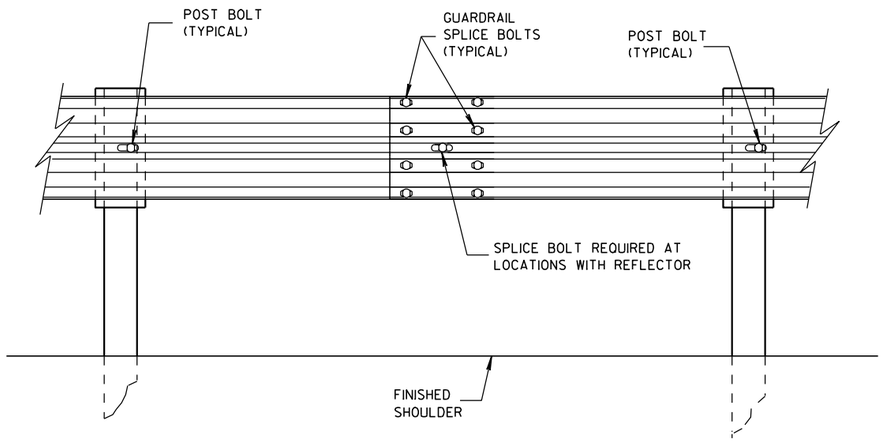


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-14



SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

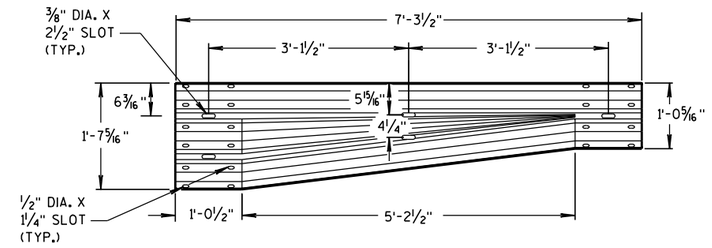
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

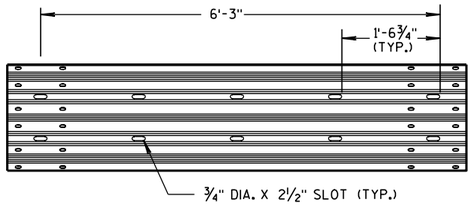
S.D.D. 14 B 45-3b

6

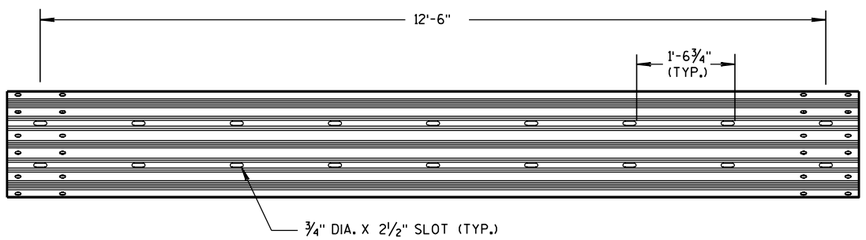
S.D.D. 14 B 45-3b



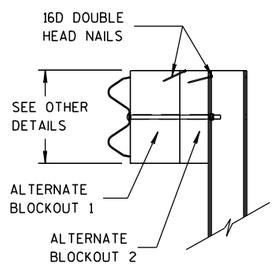
W-BEAM TO THRIE BEAM TRANSITION SECTION



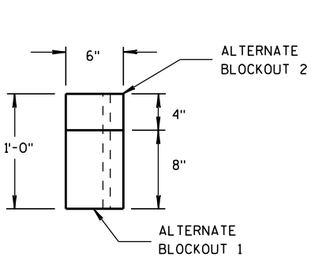
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

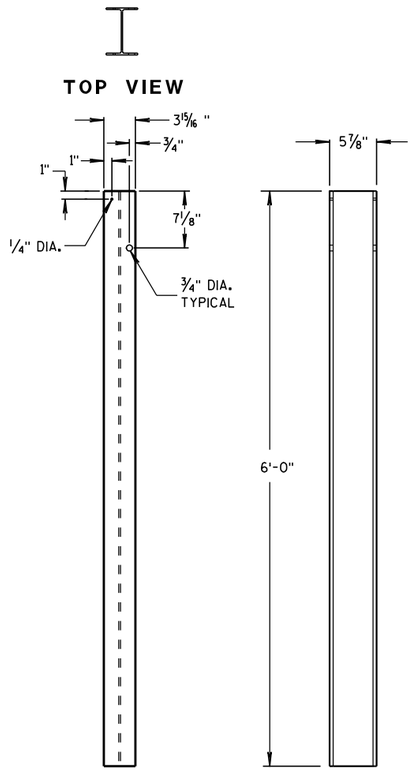


SIDE VIEW

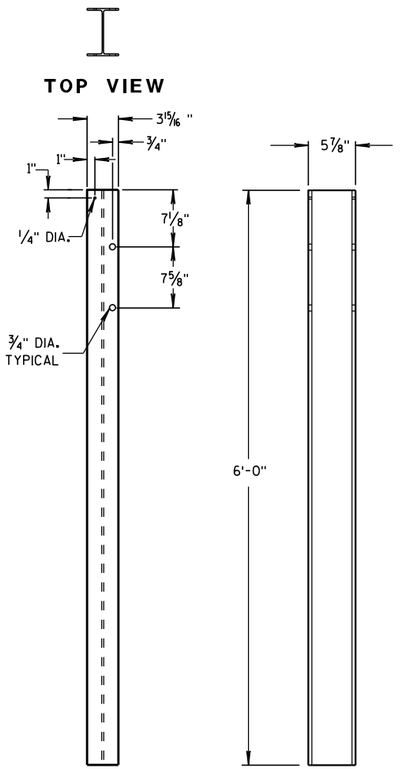


TOP VIEW

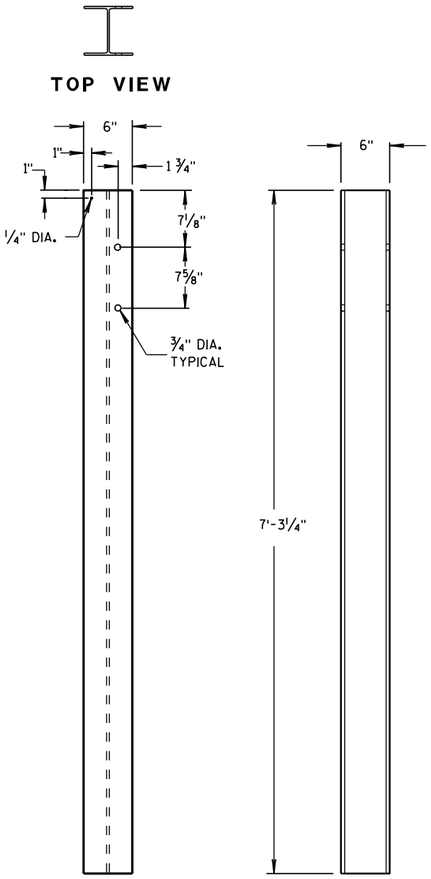
ALTERNATE WOOD BLOCKOUT DETAIL



STEEL POSTS 1-5

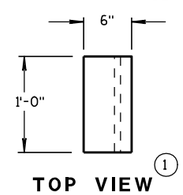


STEEL POSTS 6-11

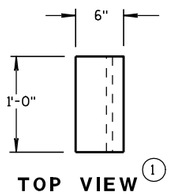


STEEL POSTS 12-14

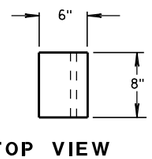
1 WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



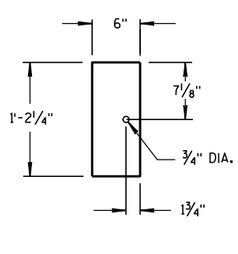
TOP VIEW (1)



TOP VIEW (1)

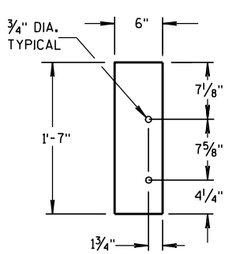


TOP VIEW



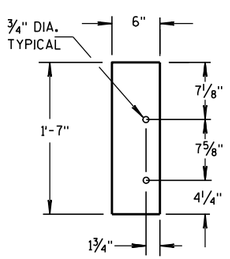
FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-11



FRONT VIEW

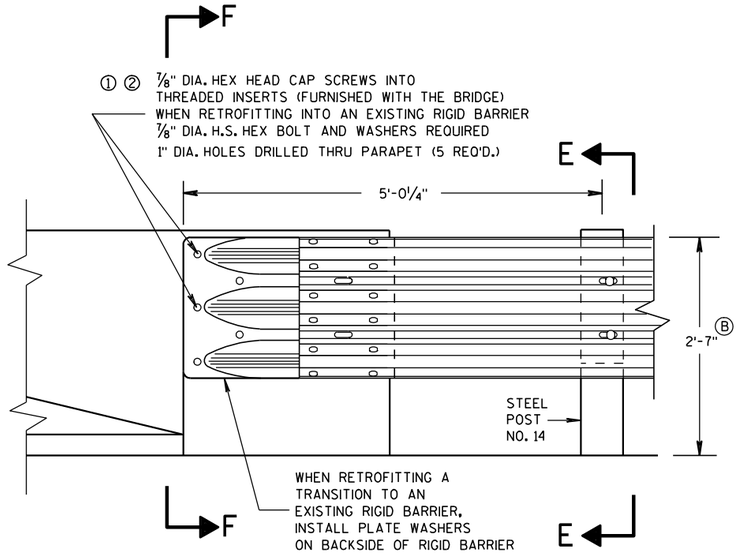
BLOCKOUT POSTS 12-14

STEEL POST SIZES

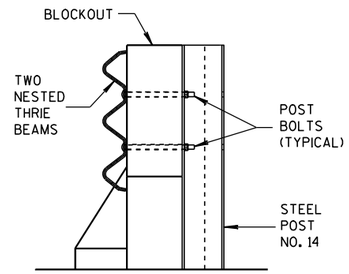
POST NUMBER	SECTION TYPE	LENGTH
1	W6x9	72"
2	W6x9	72"
3	W6x9	72"
4	W6x9	72"
5	W6x9	72"
6	W6x9	72"
7	W6x9	72"
8	W6x9	72"
9	W6x9	72"
10	W6x9	72"
11	W6x9	72"
12	W6x15	87 1/8"
13	W6x15	87 1/8"
14	W6x15	87 1/8"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FRONT VIEW



SECTION E-E

GENERAL NOTES

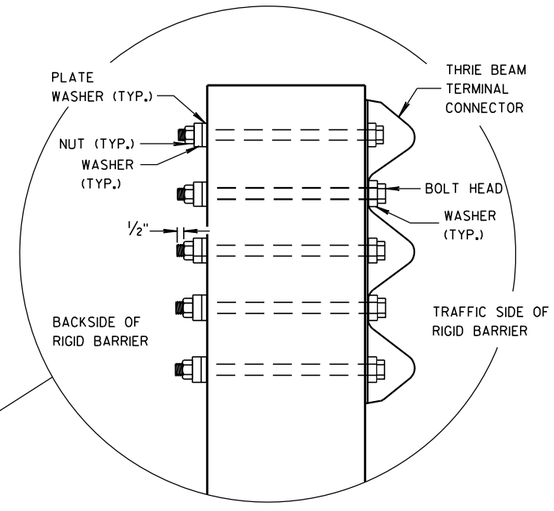
THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

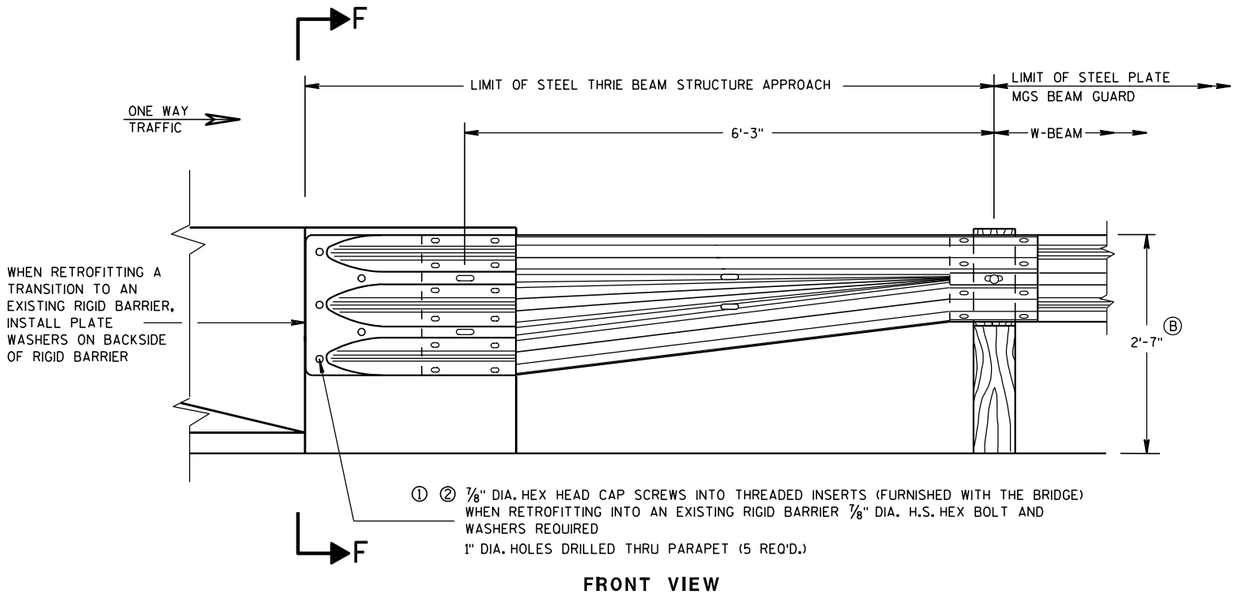
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

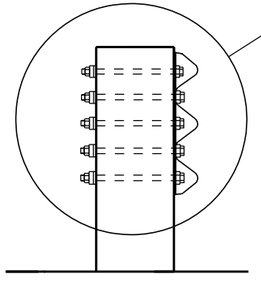
Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".



THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



FRONT VIEW



SECTION F-F

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 — DATE

/S/ Jerry H. [illegible] — ROADWAY STANDARDS (860) — ENGINEER

FHWA

6

S.D.D. 14 B 45-3d

6

S.D.D. 14 B 45-3d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

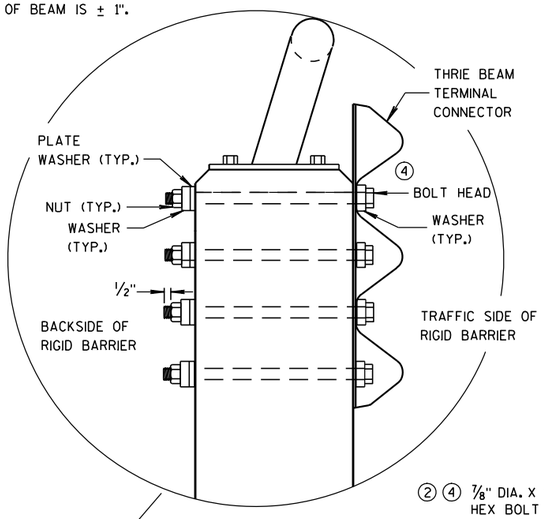
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

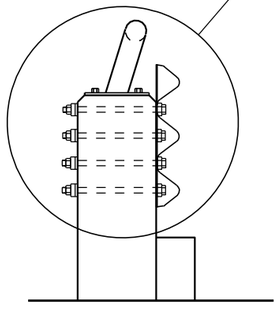
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2". BLOCK IS INCIDENTAL TO THE CONTRACT.

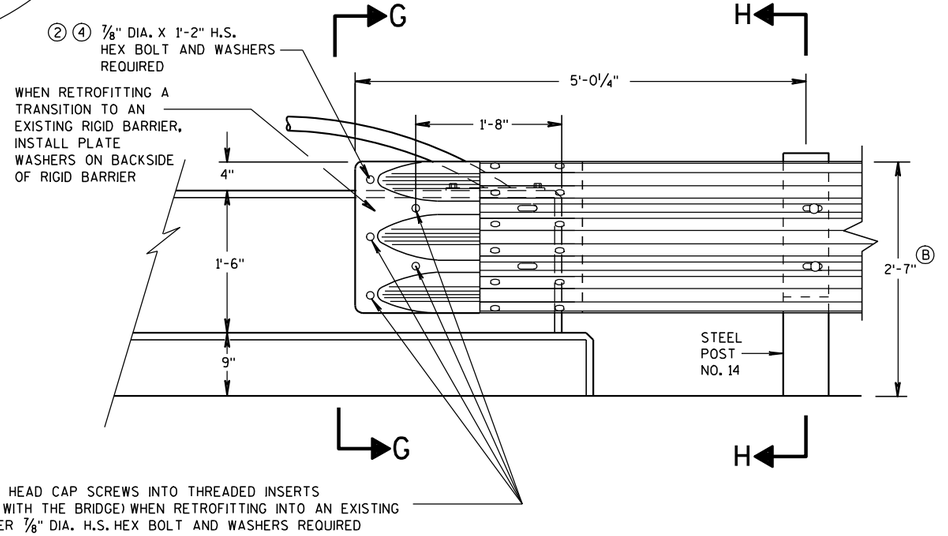
④ BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

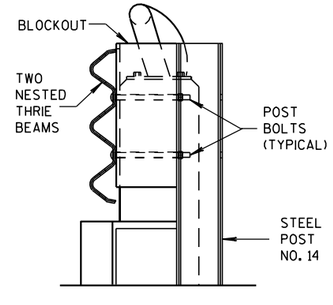




SECTION G-G

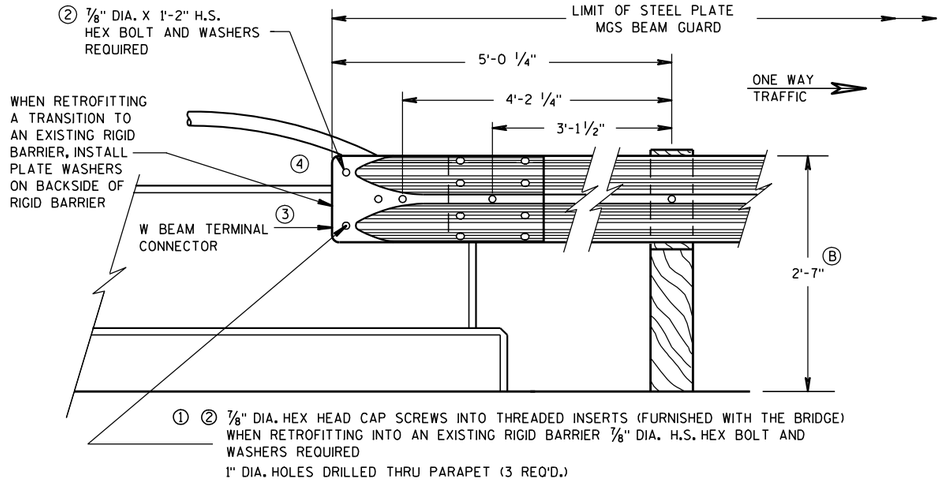


FRONT VIEW



SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8-31-2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

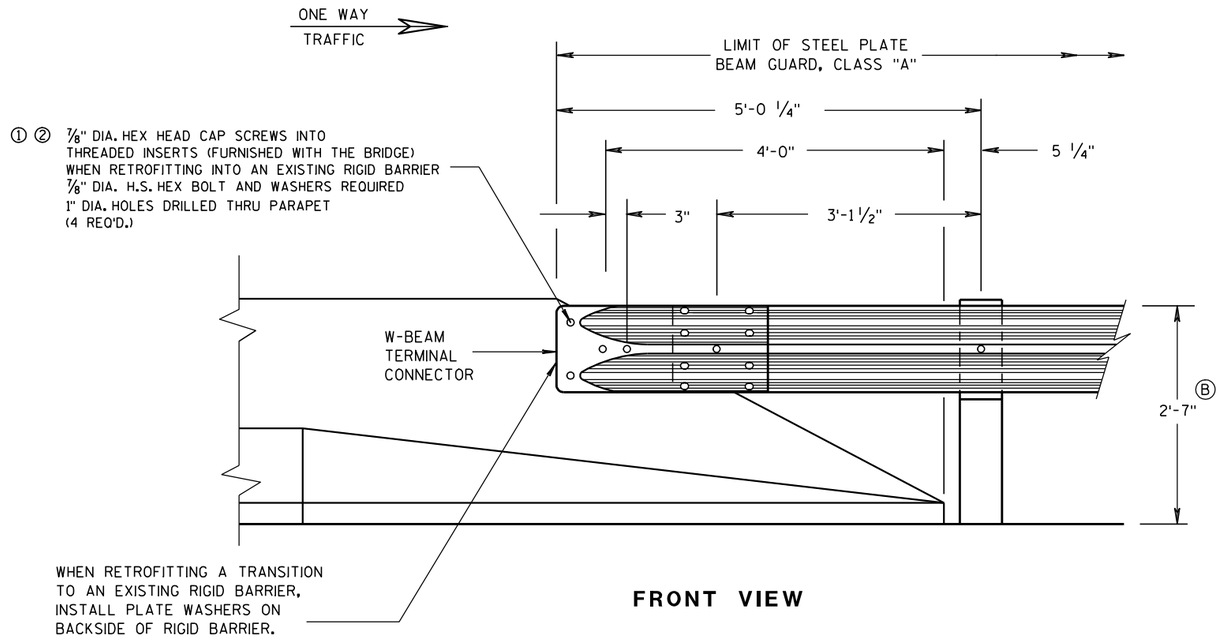
FHWA

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S.D.D. 14 B 45-3e

6

S.D.D. 14 B 45-3e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

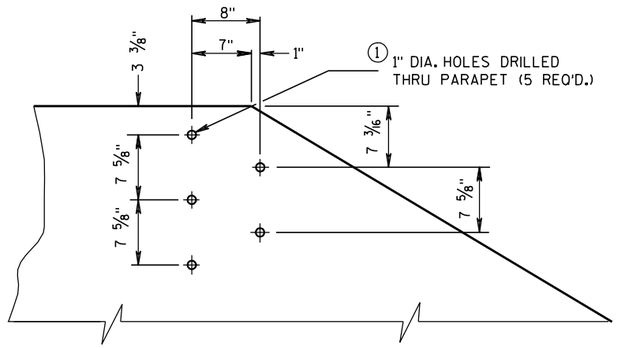
(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

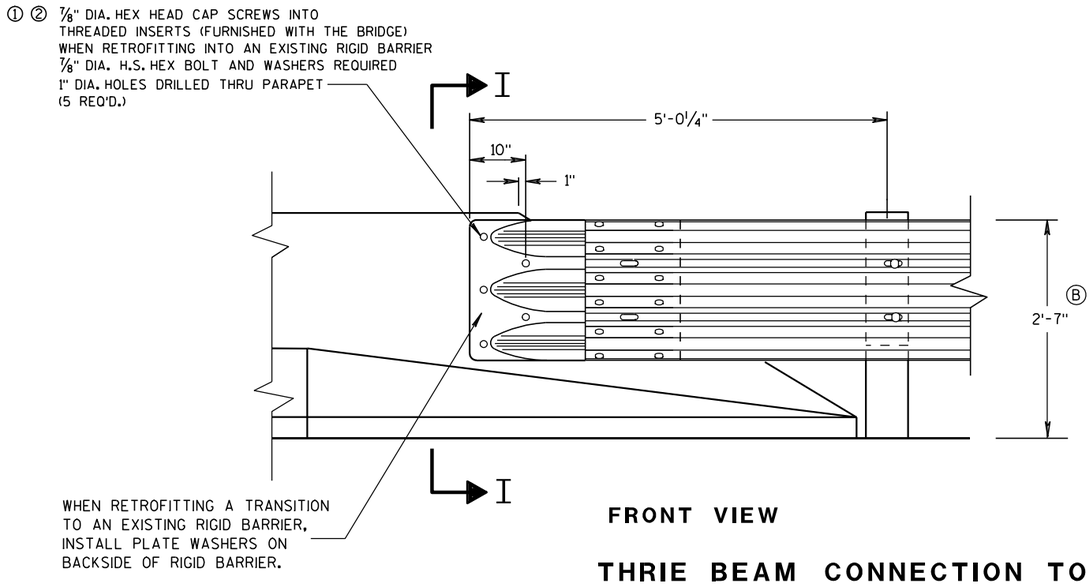
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

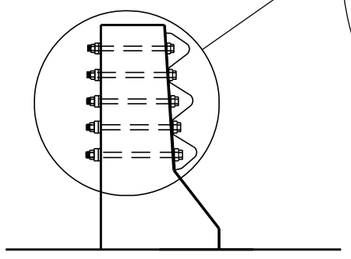
Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".



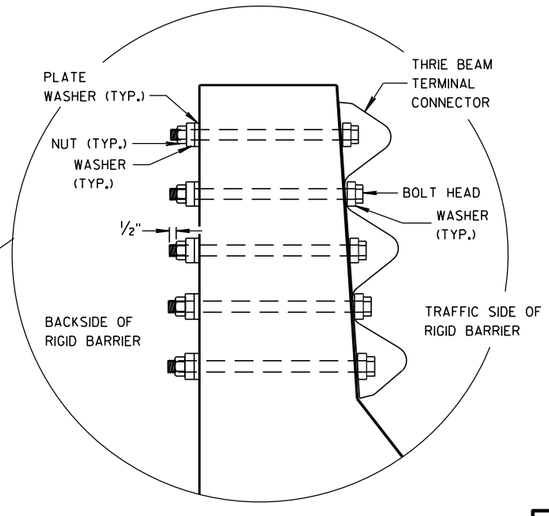
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER

862 — ENT

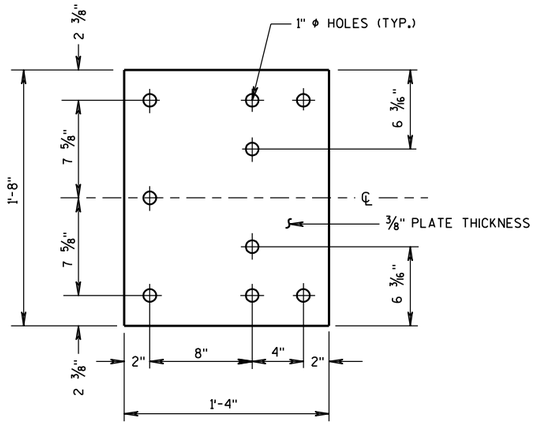
FHWA

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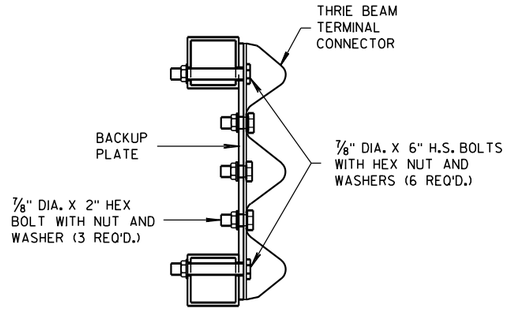
S.D.D. 14 B 45-3f

6

S.D.D. 14 B 45-3f



BACK-UP PLATE DETAIL

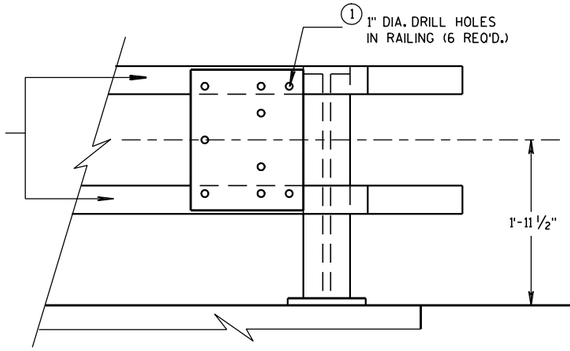


SECTION J-J

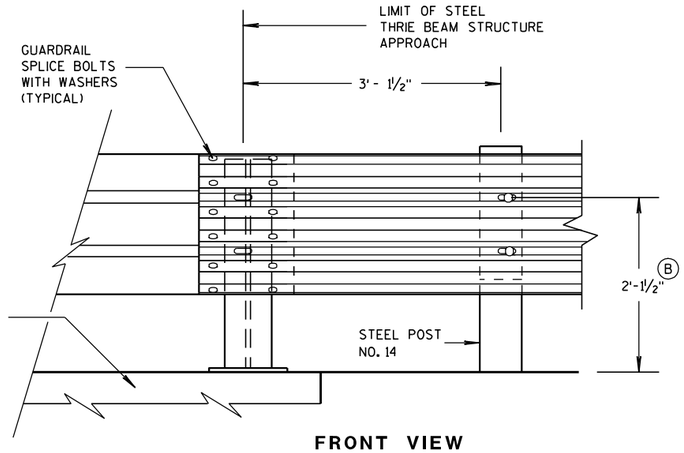
GENERAL NOTES

(1) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(B) TOLERANCE FOR TOP OF BEAM IS ± 1".

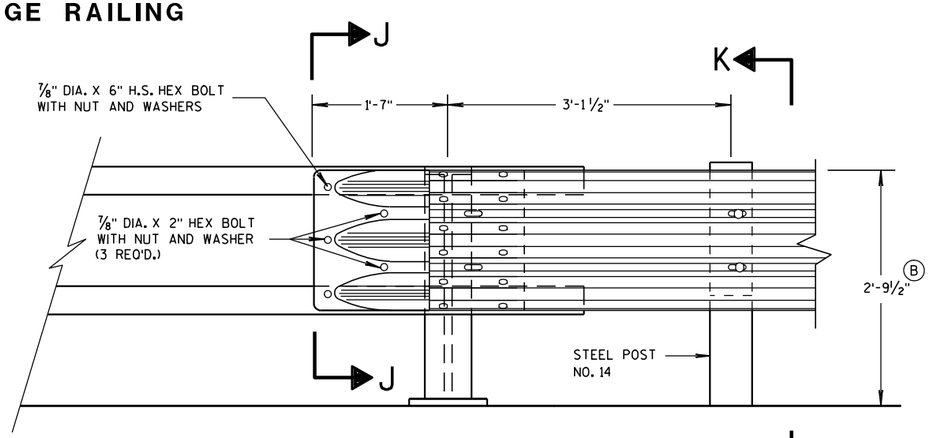


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

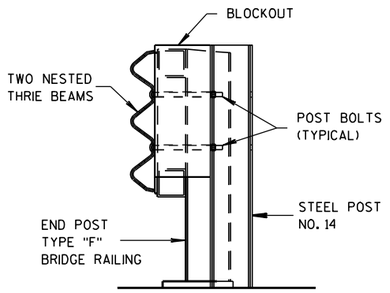


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

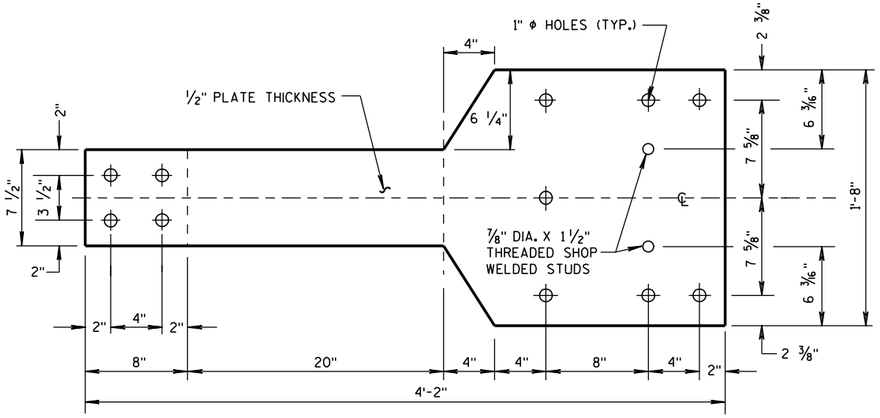
S.D.D. 14 B 45-3g

6

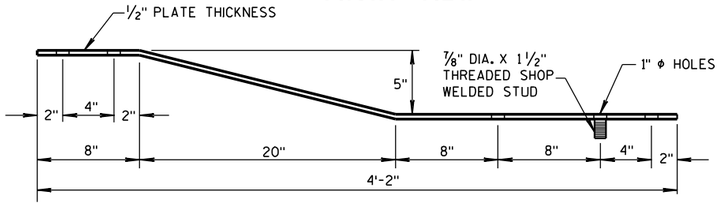
S.D.D. 14 B 45-3g

GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

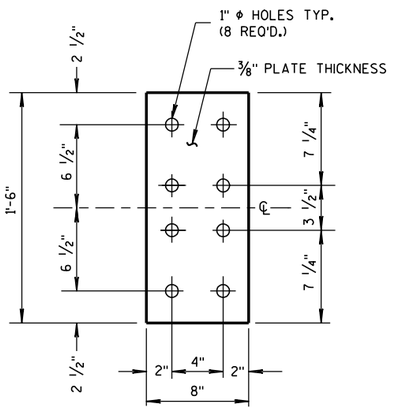


FRONT VIEW



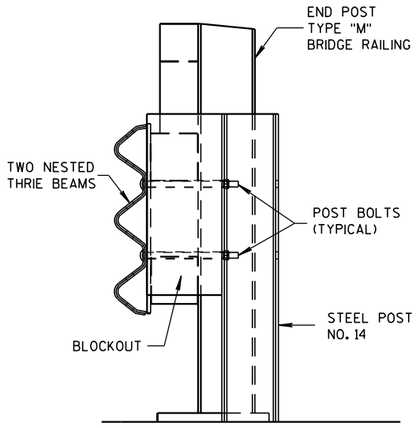
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

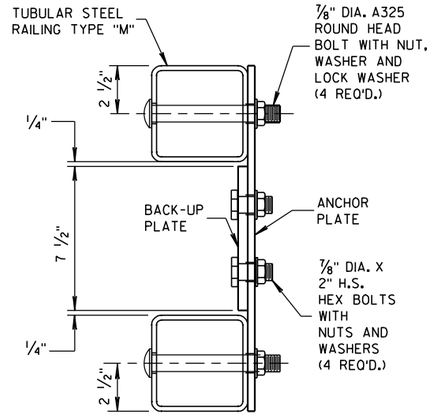


FRONT VIEW

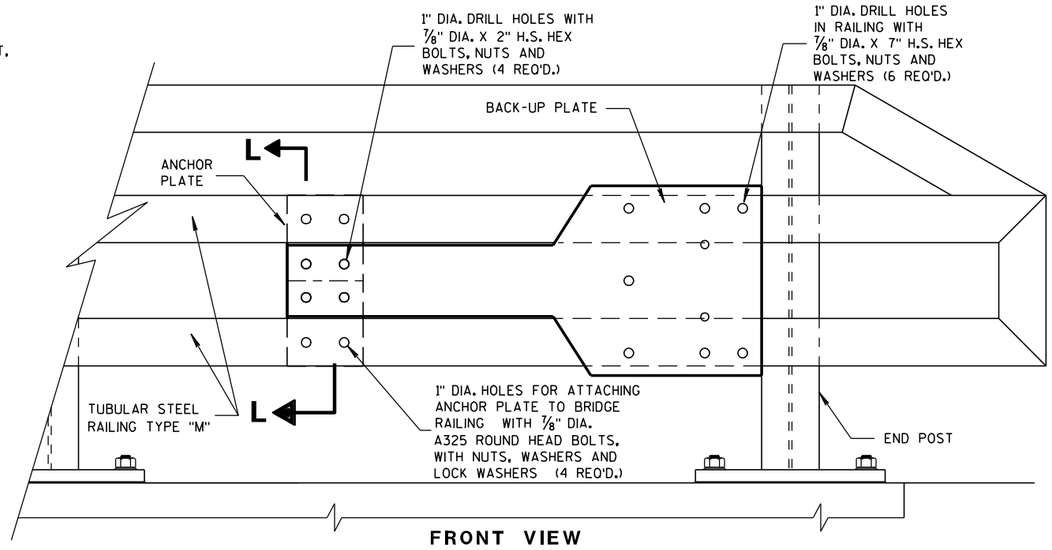
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

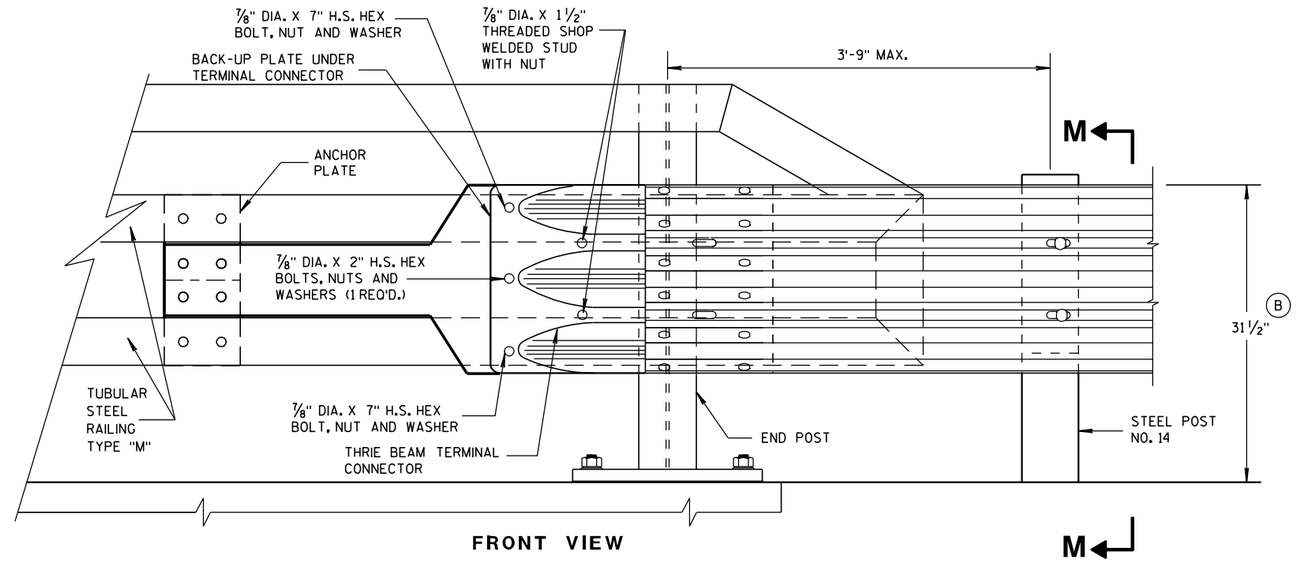


SECTION L-L

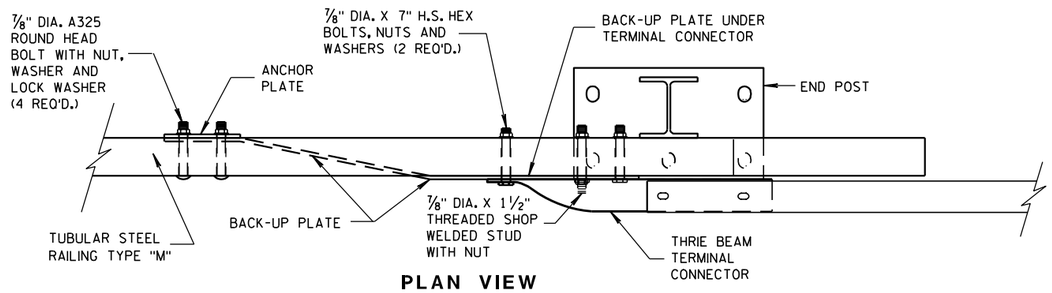


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-31-2012 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
864 ENT
FHWA

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S.D. 14 B 45-3h

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S.D. 14 B 45-3h

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

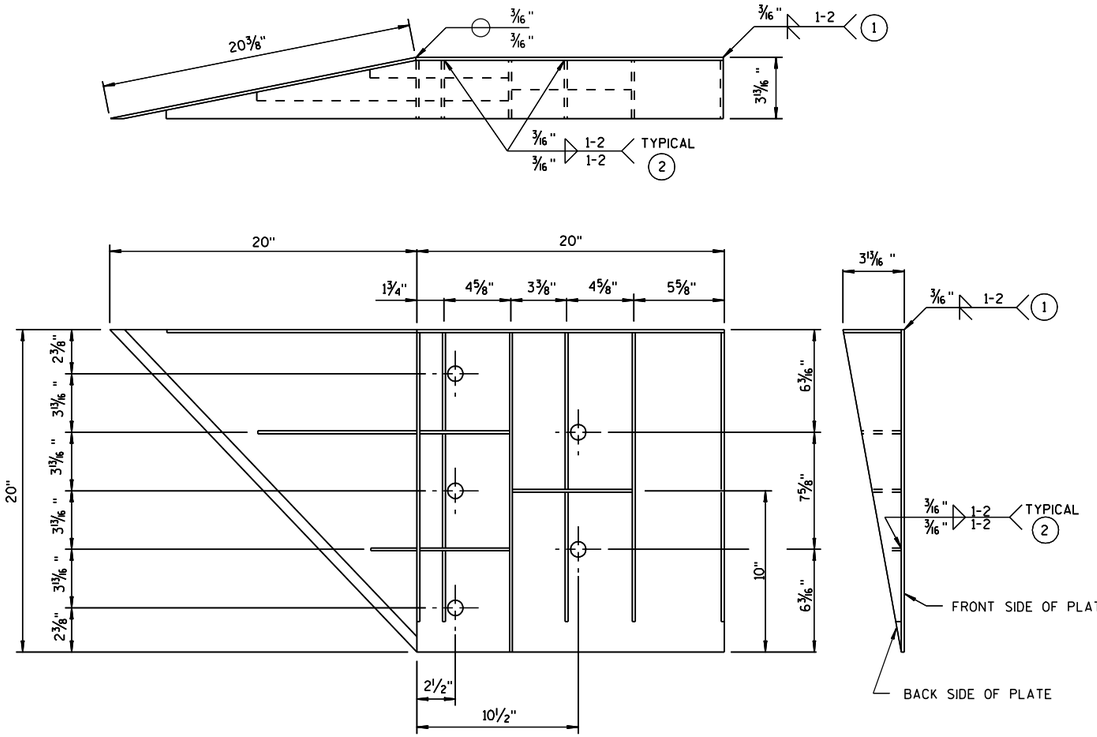
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(1) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(2) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

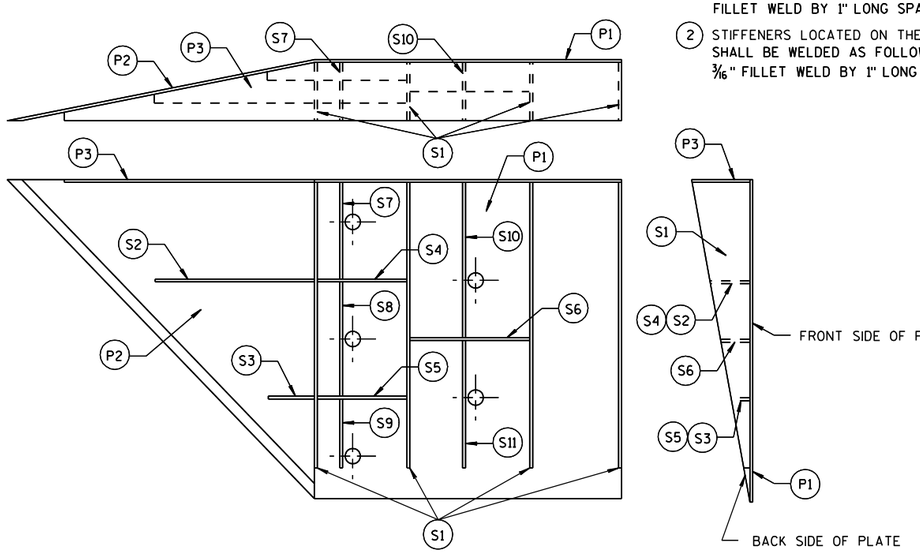


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

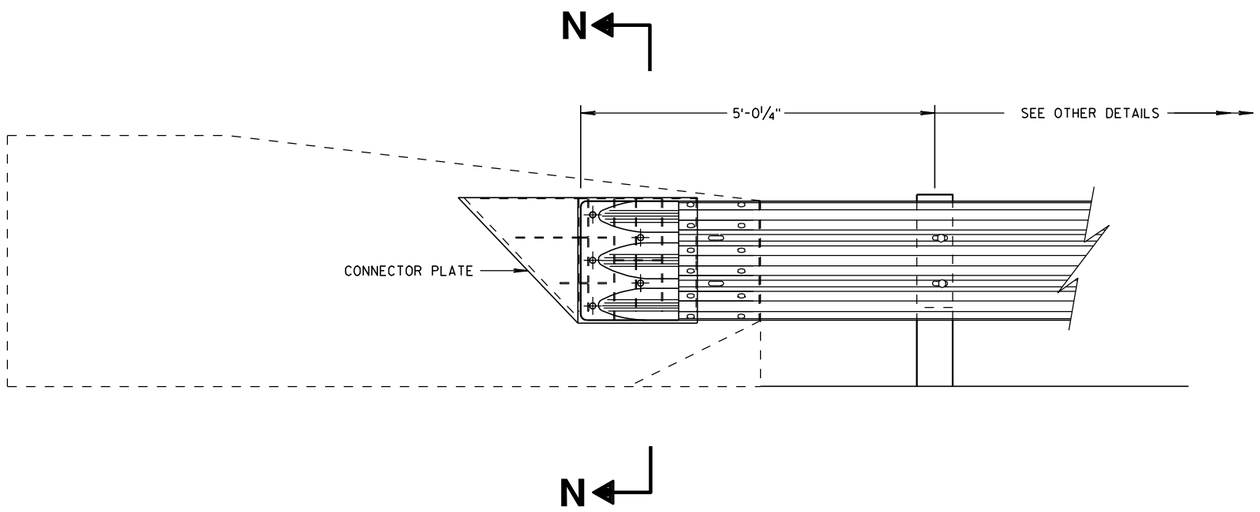
APPROVED
8/31/2012 DATE
/S/ Jerry H ---- ROADWAY STANDARDS ENGINEER
865 ...MENT
FHWA

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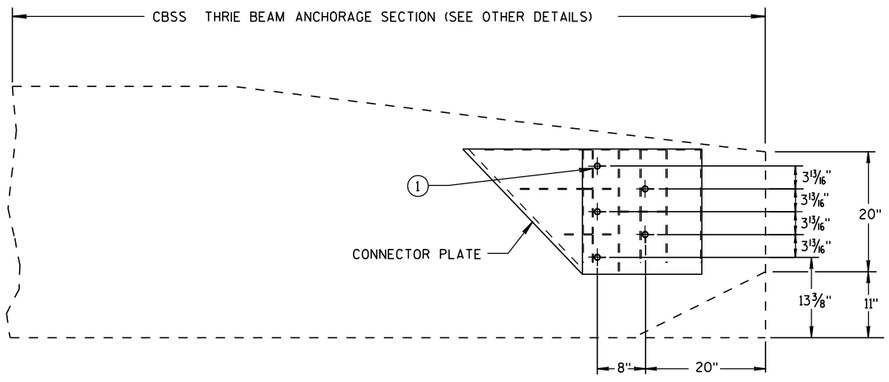
S.D.D. 14 B 45-3i

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S.D.D. 14 B 45-3i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

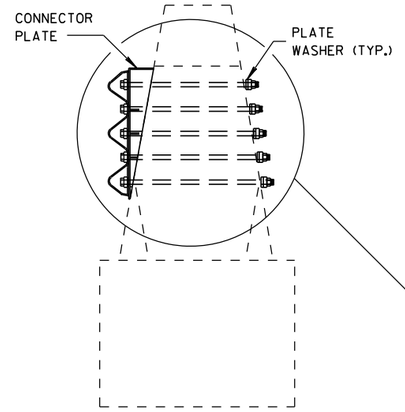


SINGLE SLOPE CONNECTION PLATE PLACEMENT

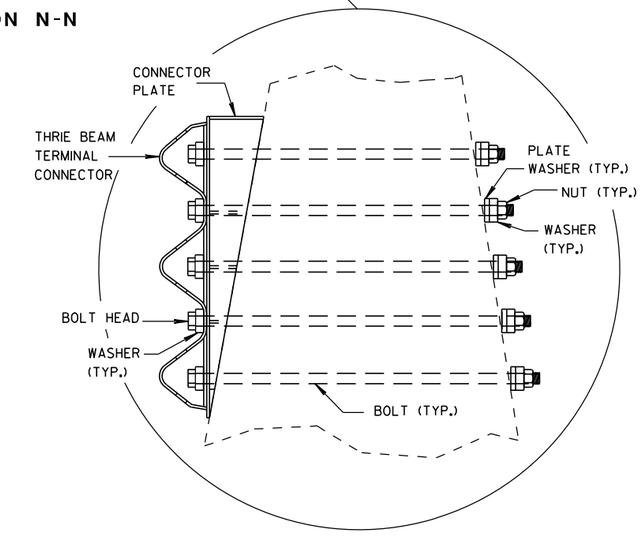
GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(1) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

1866

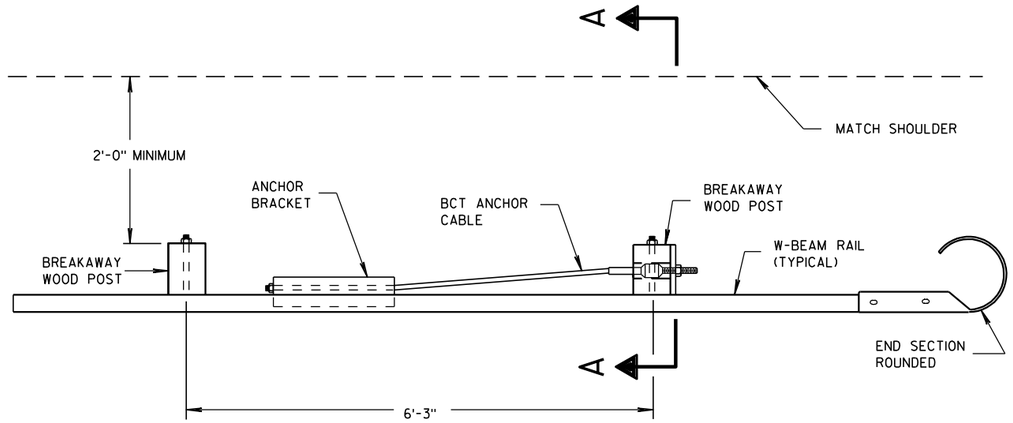
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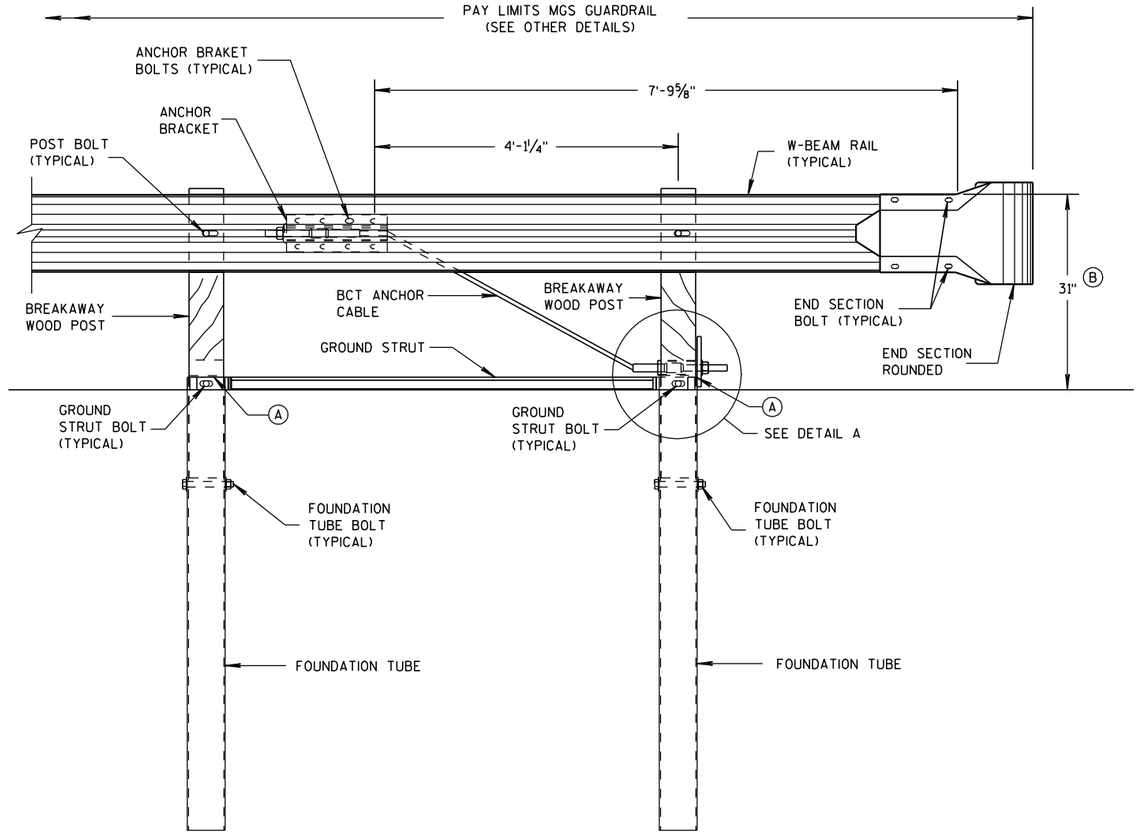
S.D.D. 14 B 45-3j

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S.D.D. 14 B 45-3j

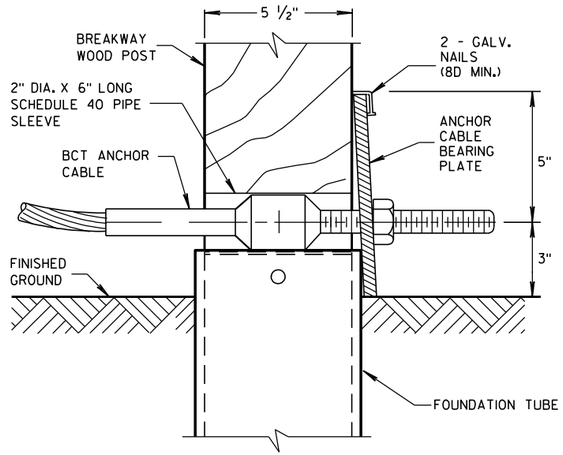


PLAN VIEW



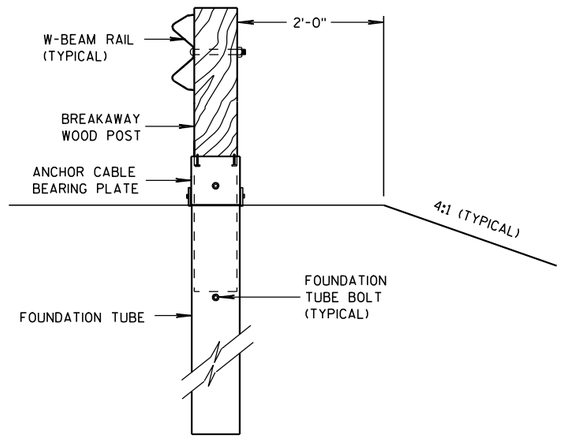
FRONT VIEW

END RAIL DETAIL



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.



SECTION A-A

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

POST BOLTS ARE A ⅝" DIAMETER X 10" LONG GUARDRAIL BOLT. A POST BOLT REQUIRES A ⅝" DIAMETER DH MODIFIED (RECESSED) HEAVY HEX NUT AND ⅝" DIAMETER FLAT WASHER.

FOUNDATION TUBE BOLTS ARE A ⅞" DIAMETER X 7½" LONG HEAVY HEX HEAD BOLT. A FOUNDATION TUBE BOLT REQUIRES A ⅞" DIAMETER DH HEAVY HEX NUT AND A ⅝" DIAMETER FLAT WASHER.

GROUND STRUT BOLTS ARE A ⅝" DIAMETER X 10" LONG HEAVY HEX HEAD BOLT. A GROUND STRUT BOLT REQUIRES A ⅝" DIAMETER DH HEAVY HEX NUT AND A ⅝" DIAMETER FLAT WASHER.

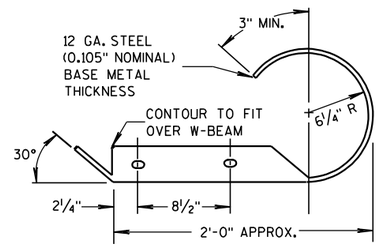
ANCHOR BRAKET BOLTS ARE A ⅝" DIAMETER X 1½" LONG HEAVY HEX HEAD BOLT. AN ANCHOR BRAKET BOLT REQUIRES A ⅝" DIAMETER DH HEAVY HEX NUT AND A FLAT WASHER.

END SECTION BOLTS ARE A ⅝" DIAMETER X 1½" HEAVY HEX HEAD BOLT. AN END SECTION BOLT REQUIRES ⅝" DIAMETER DH HEAVY HEX NUT AND A ⅝" DIAMETER FLAT WASHER.

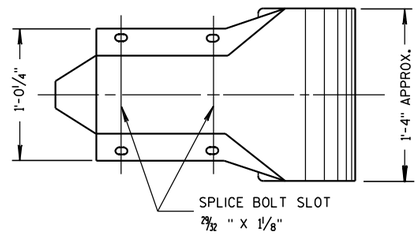
W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".



PLAN VIEW



FRONT VIEW

W BEAM END SECTION ROUNDED

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

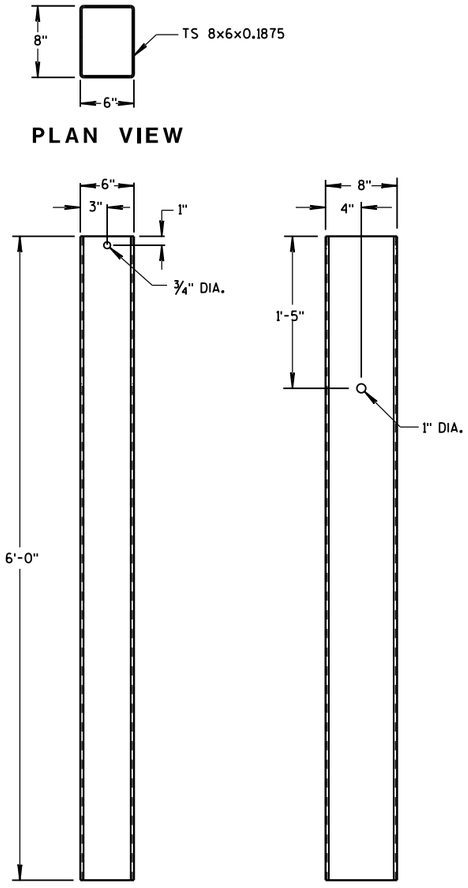
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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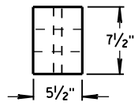
S.D.D. 14 B 47-1a

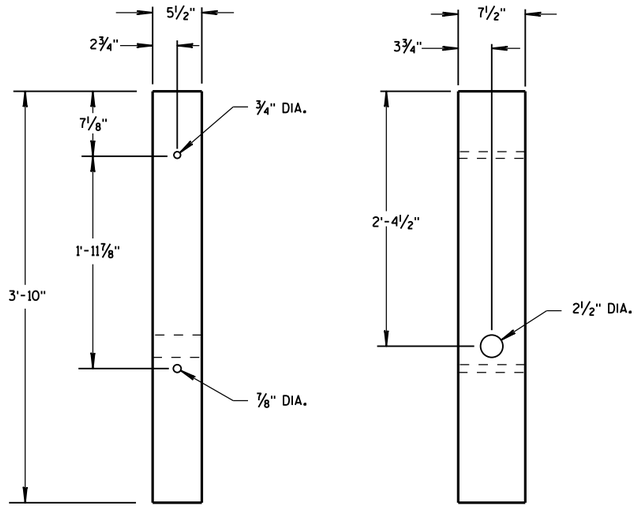
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S.D.D. 14 B 47-1a



FOUNDATION TUBE



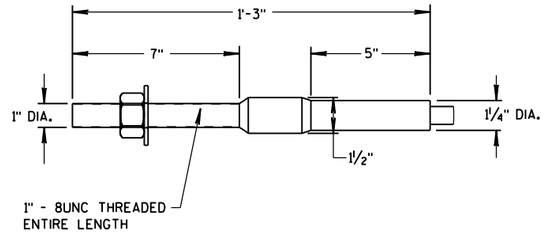


BREAKAWAY WOOD POST

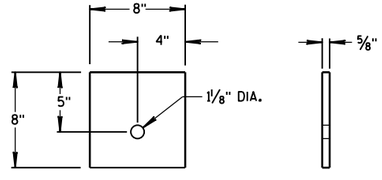
GENERAL NOTES

BCT ANCHOR CABLE IS A ⅜" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. THE END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. THE TREADED STUD SHOULD CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

BCT ANCHOR CABLE



DETAIL B



ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

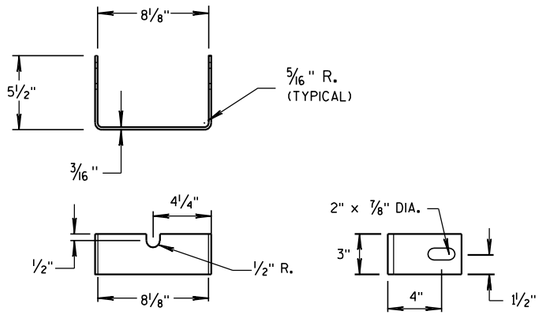
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 868

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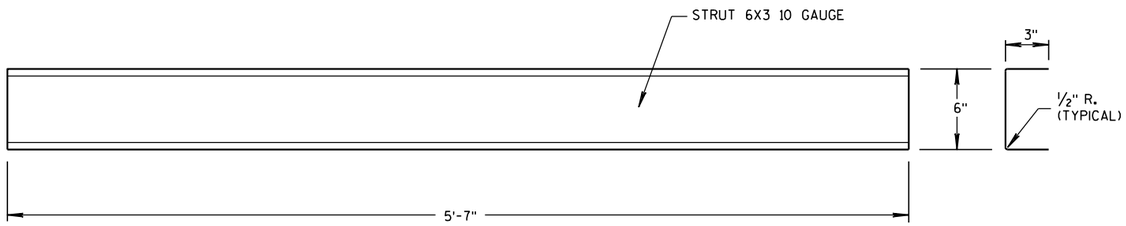
S.D.D. 14 B 47-1b

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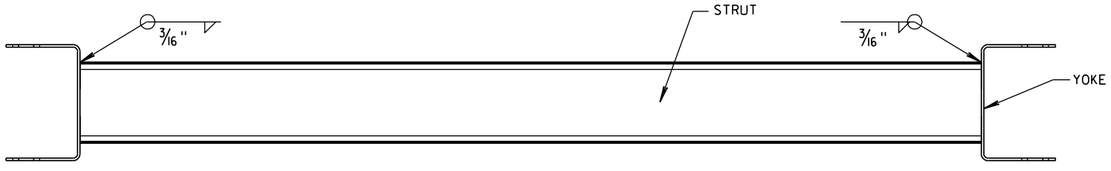
S.D.D. 14 B 47-1b



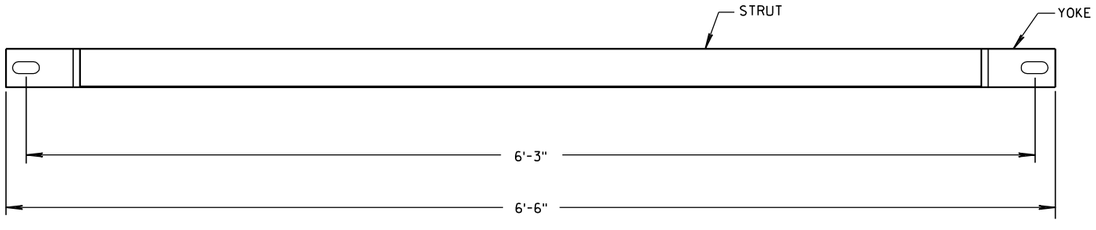
YOKE DETAIL



STRUT DETAIL

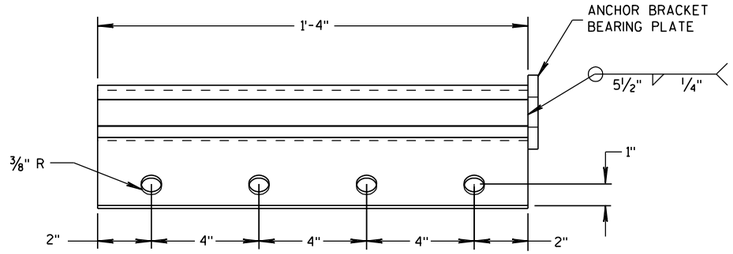


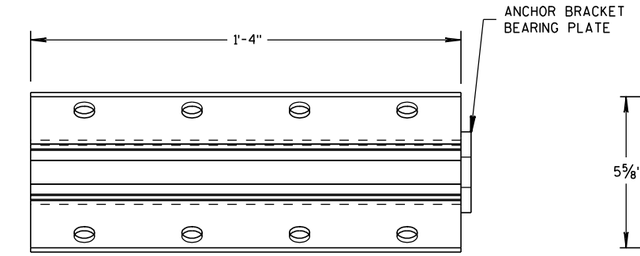
PLAN VIEW

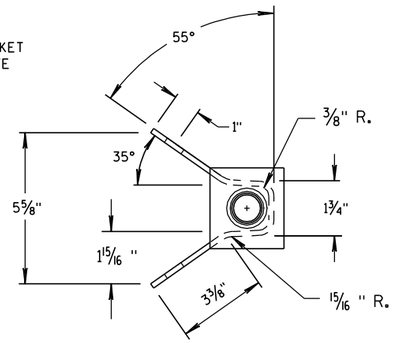


FRONT VIEW

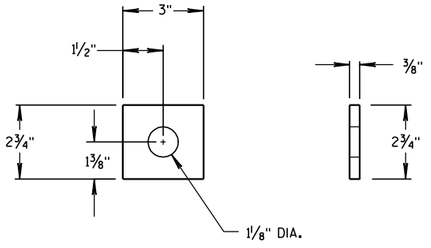
GROUND STRUT DETAIL







ANCHOR BRACKET



ANCHOR BRACKET BEARING PLATE

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

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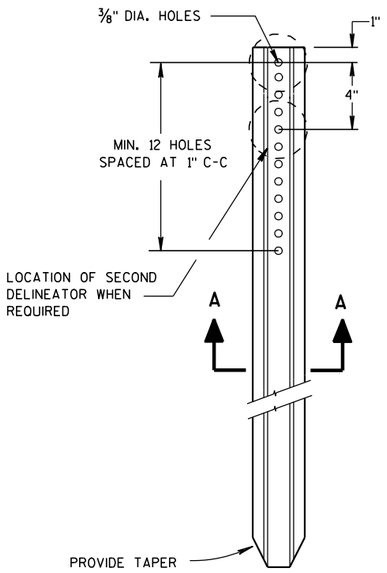
FHWA

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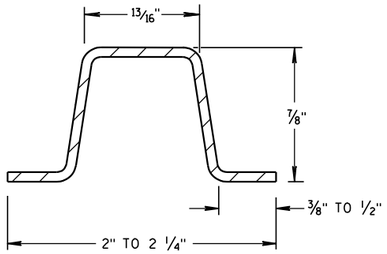
S.D.D. 14 B 47-1c

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S.D.D. 14 B 47-1c

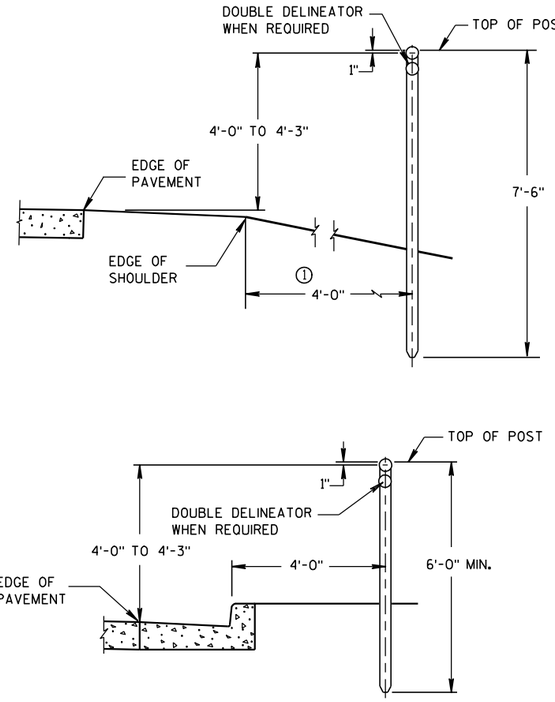


DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.

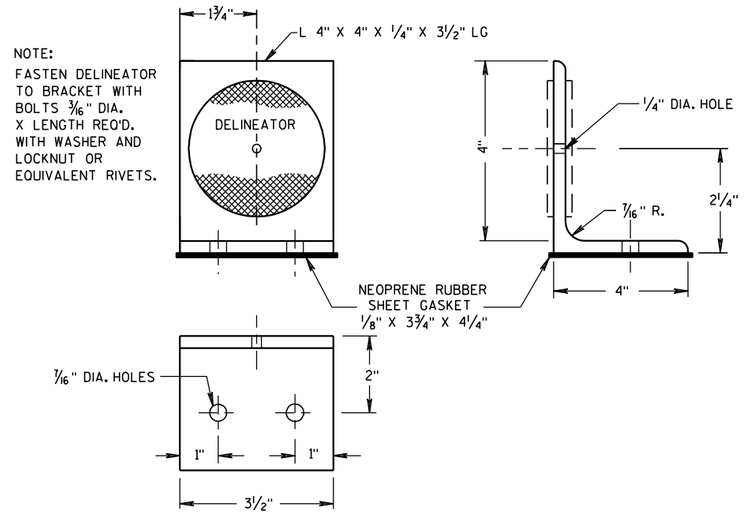


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

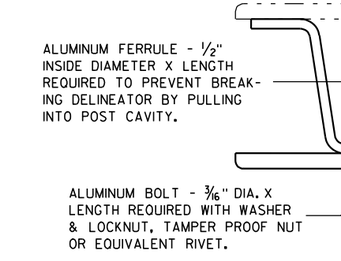
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

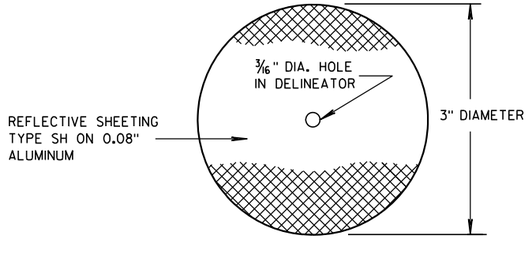
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



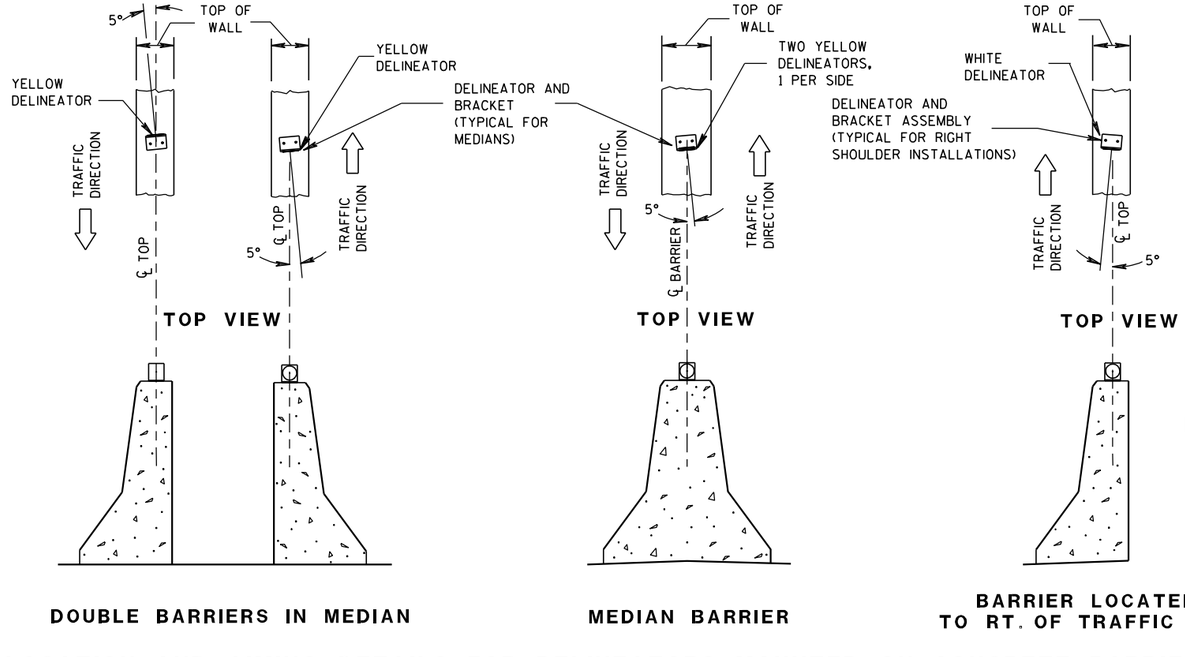
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR



DELINEATOR

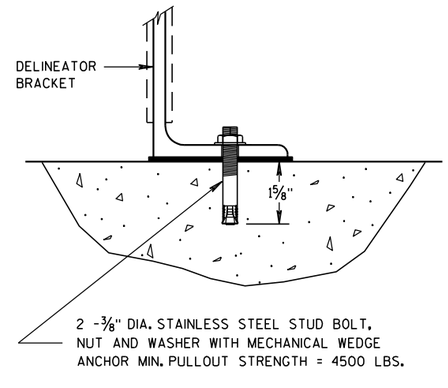


DOUBLE BARRIERS IN MEDIAN

MEDIAN BARRIER

BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATORS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

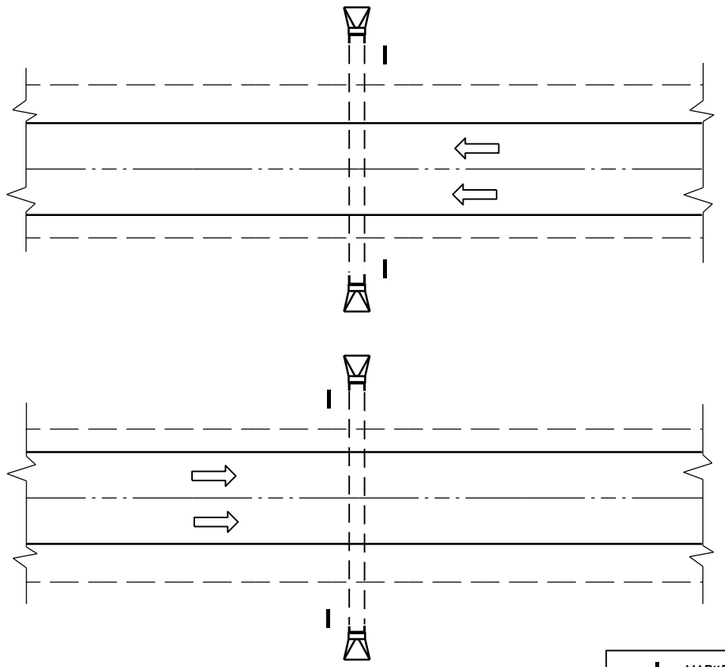
DELINEATOR POST, DELINEATOR BRACKET AND DELINEATOR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
1/25/2011 — DATE
/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER
870 — DESIGN
FHWA

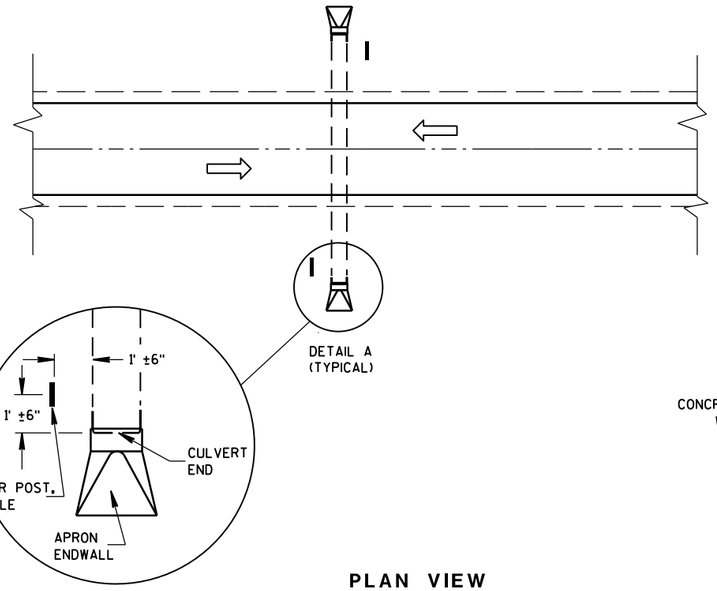
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S.D.D. 15 A 2-7



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

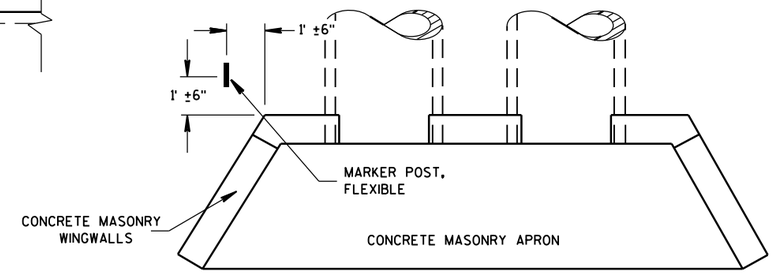
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

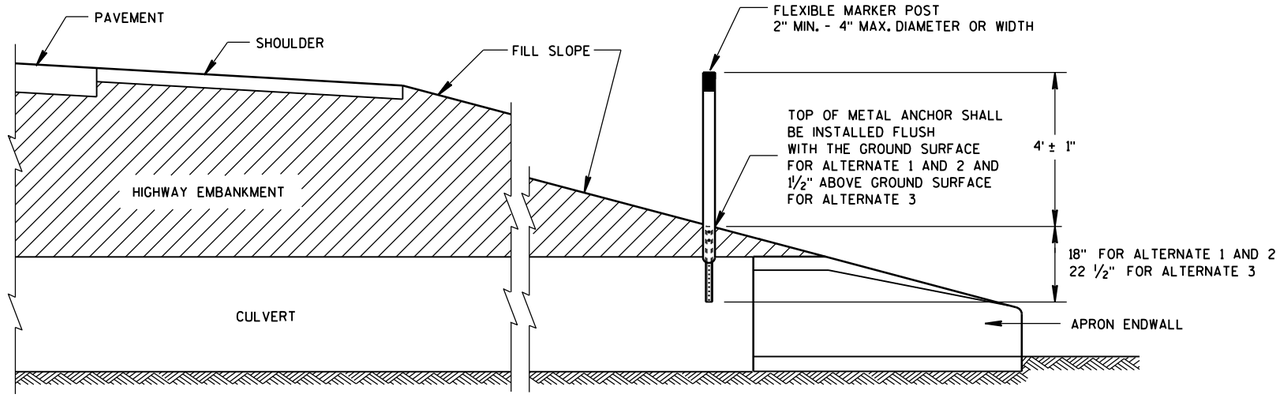
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

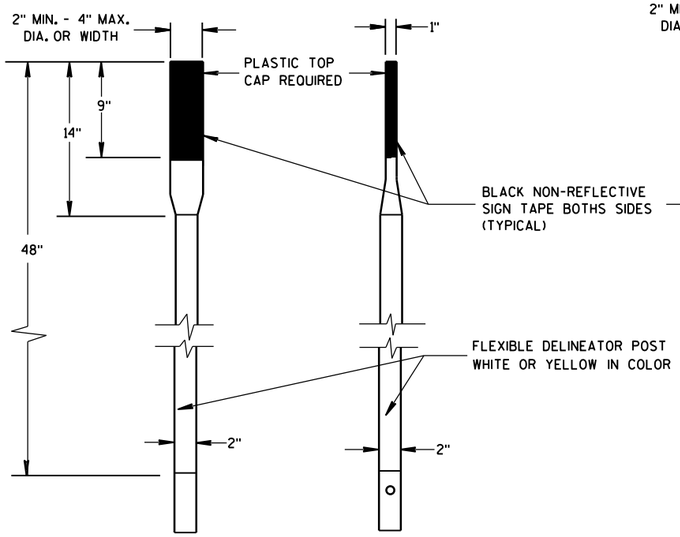
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

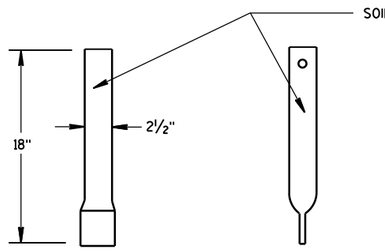
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S.D.D. 15 A 3-2a

6

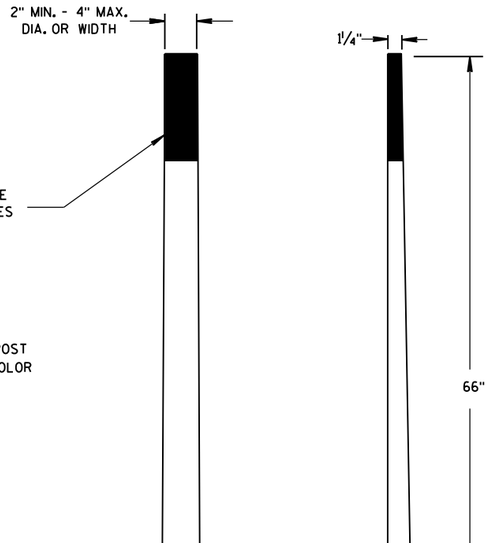
S.D.D. 15 A 3-2a





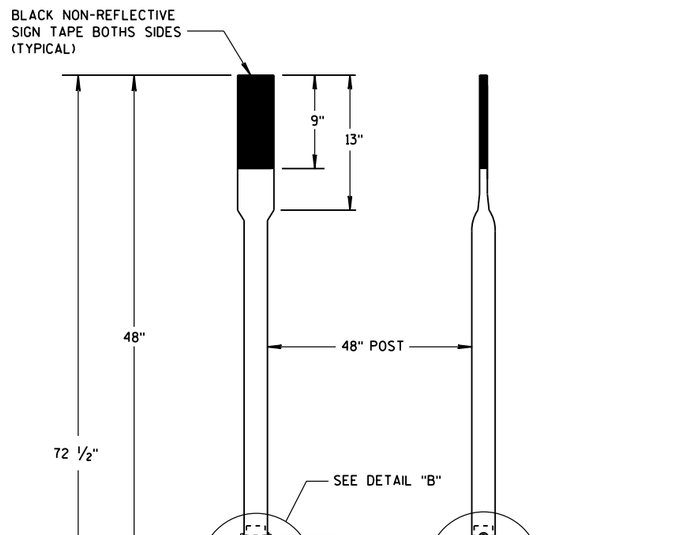
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

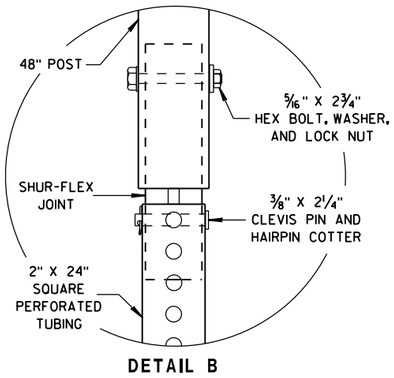
ALTERNATE 2



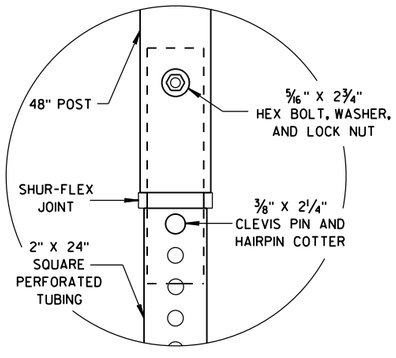
FRONT VIEW SIDE VIEW

ALTERNATE 3

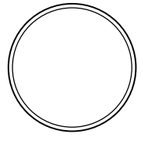
FLEXIBLE MARKER POSTS



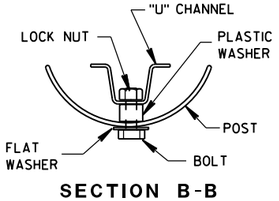
DETAIL B



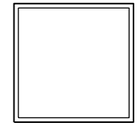
DETAIL C



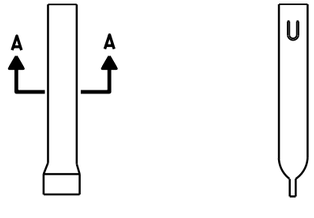
SECTION A-A



SECTION B-B

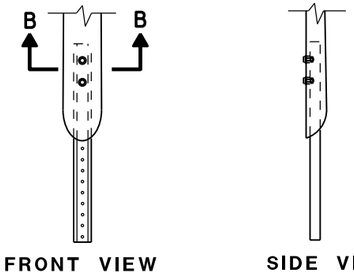


SECTION C-C



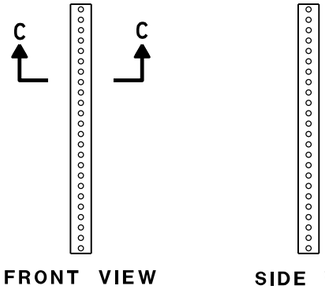
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

ALTERNATE 2



FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

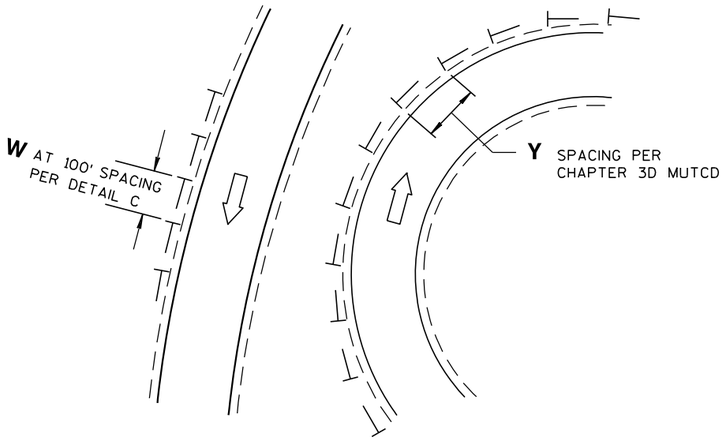
S.D.D. 15 A 3-2b

6

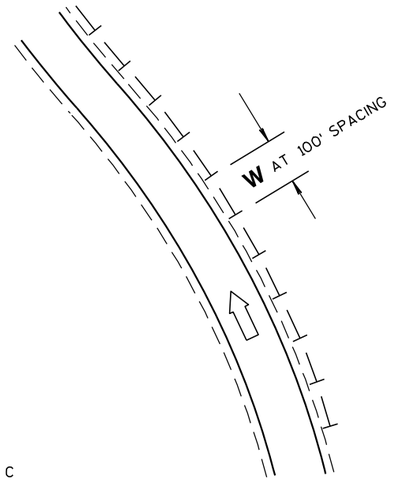
S.D.D. 15 A 3-2b

GENERAL NOTES

* USE DOUBLE DELINEATOR ALONG ACCELERATION-DECELERATION LANES AND TAPERS. USE SINGLE DELINEATOR WHEN RAMP PAVEMENT IS FULL WIDTH.



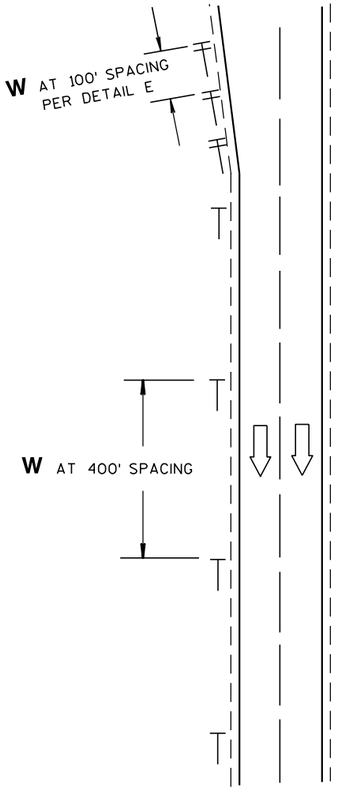
DETAIL A
DELINEATOR LAYOUT AT CURVED RAMP



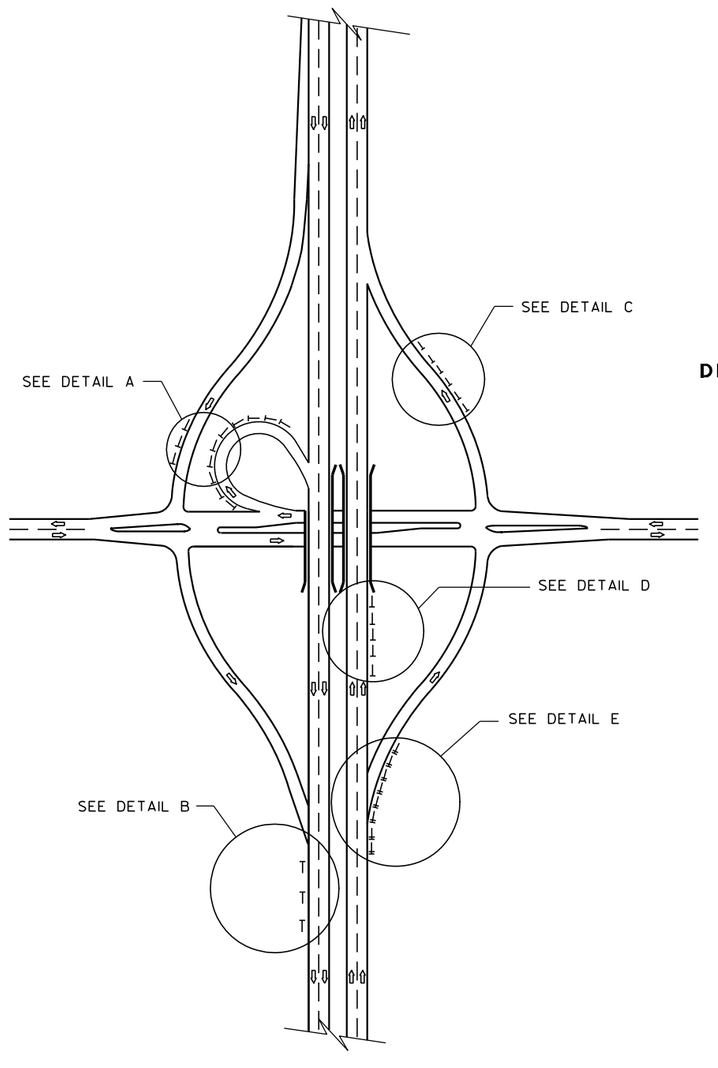
DETAIL C
DELINEATOR LAYOUT ALONG RAMP

LEGEND

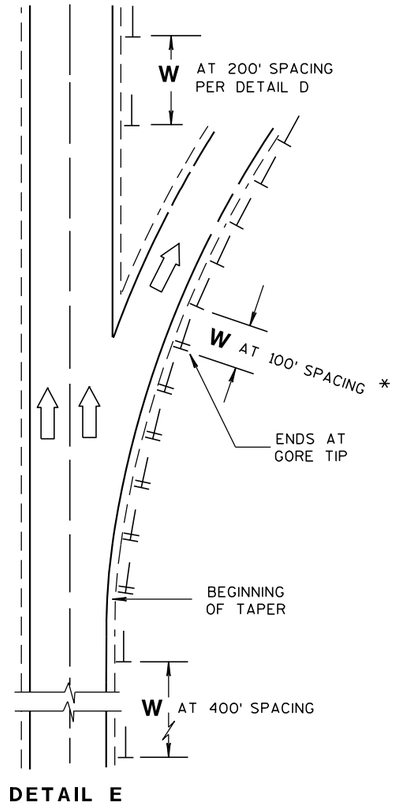
- DIRECTION OF TRAFFIC FLOW
- SINGLE DELINEATOR
- DOUBLE DELINEATOR
- W — WHITE
- Y — YELLOW



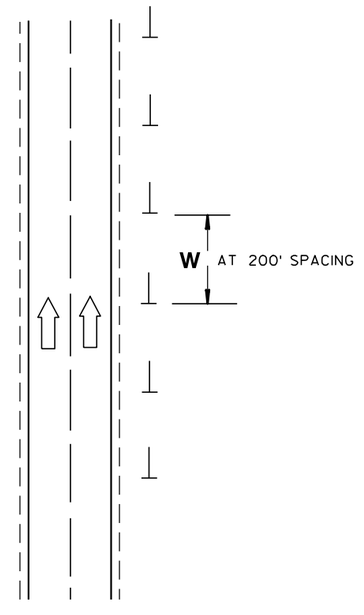
DETAIL B
DELINEATOR LAYOUT ALONG MAINLINE



DELINEATOR LAYOUT



DETAIL E
DELINEATOR LAYOUT FOR ACCELERATION - DECELERATION LANES AND TAPERS AT RAMPS



DETAIL D
DELINEATOR LAYOUT BETWEEN INTERCHANGE RAMPS

DELINEATOR LAYOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

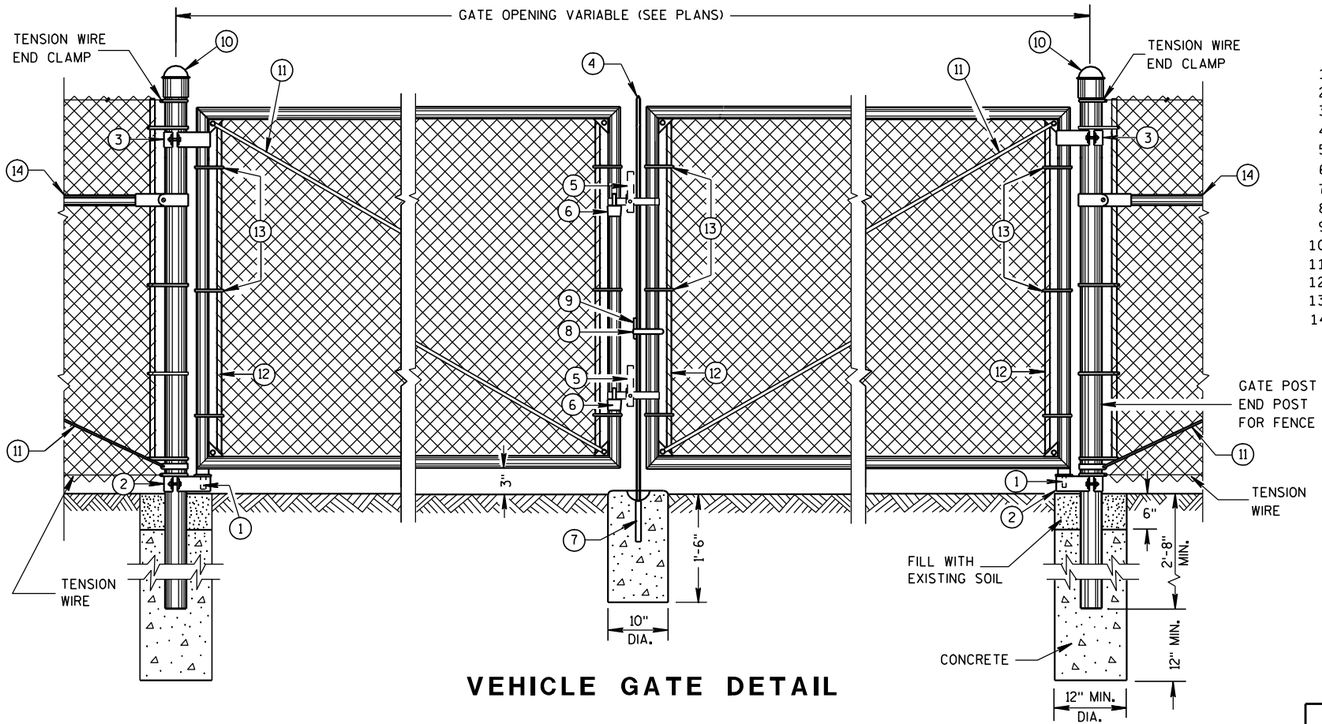
APPROVED
2/5/09 DATE
/S/ Thomas N. Nothdurft STATE TRAFFIC ENGINEER
FHWA

6

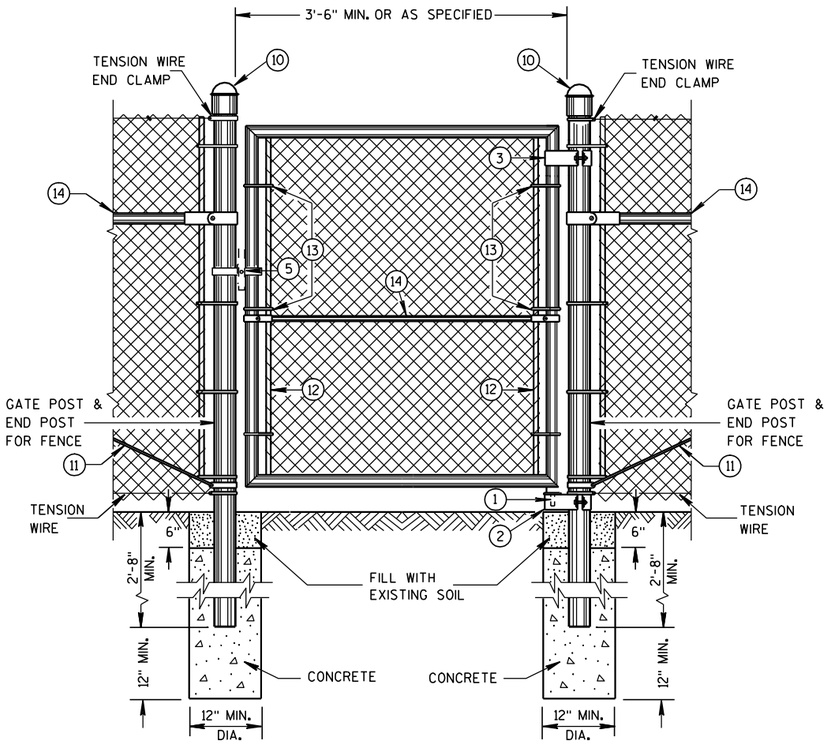
S.D.D. 15 A 6-2

6

S.D.D. 15 A 6-2



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

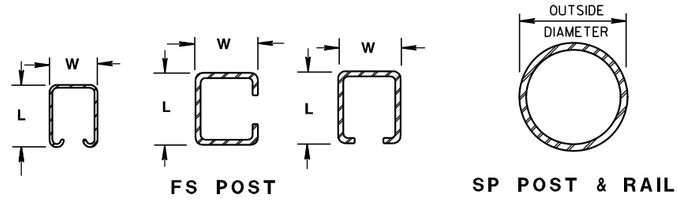
FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.



FS POST

SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR FORMED STEEL FENCE POST

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR ROUND STEEL FENCE POST

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

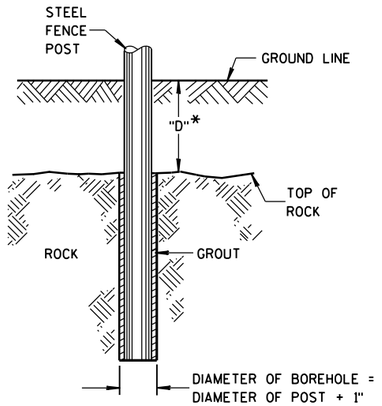
** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

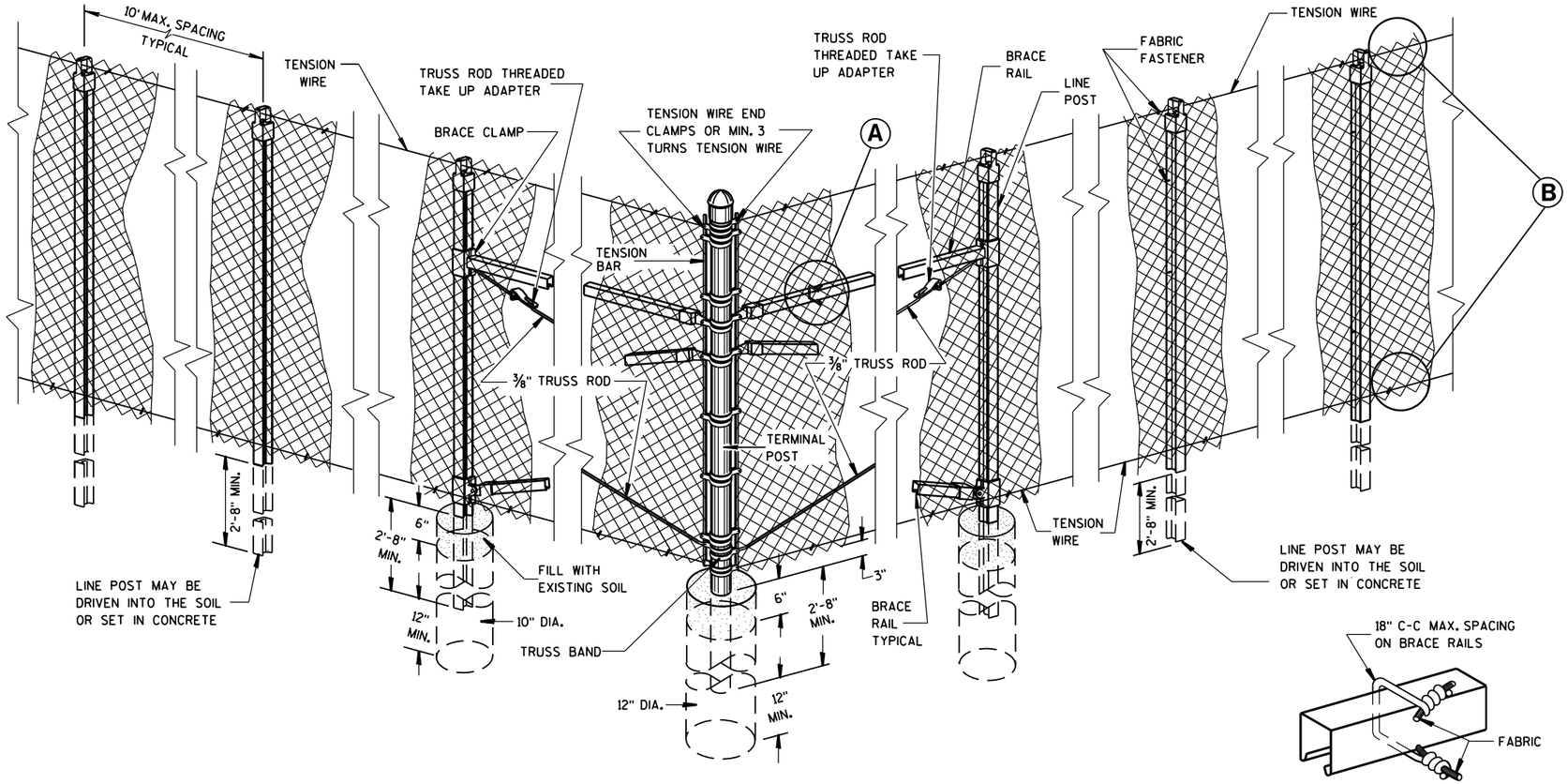
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S.D.D. 15 B 3-12a
S.D.D. 15 B 3-12a

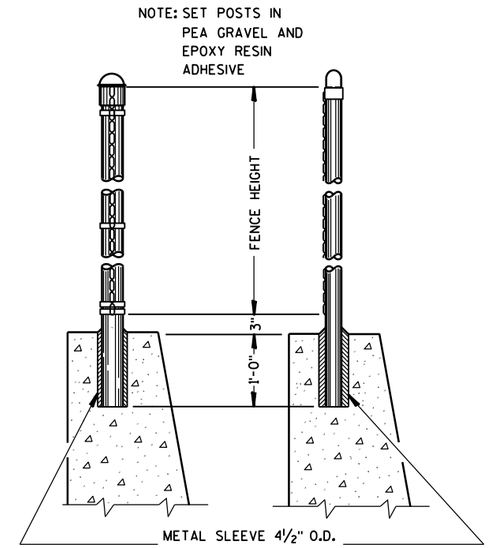


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST

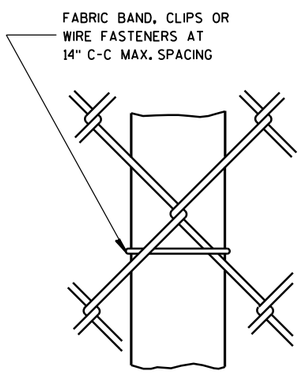


END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



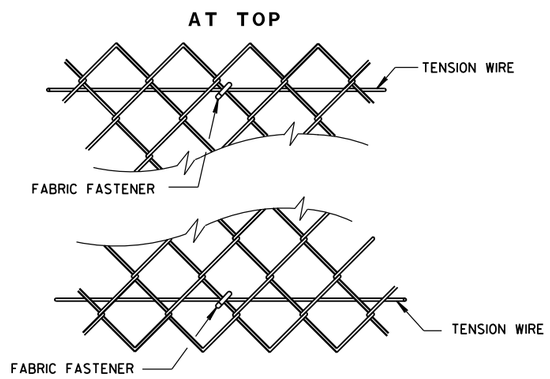
END POST & CORNER POST LINE POST

DETAILS OF FENCE ON WALL



LINE POST

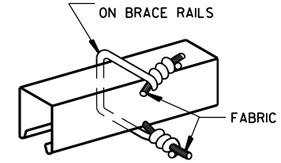
FABRIC FASTENER



AT BOTTOM

SELVAGES

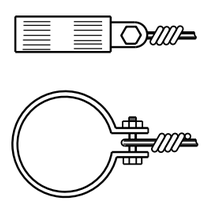
Ⓑ



BRACE RAIL

FABRIC FASTENER

Ⓐ



TENSION WIRE END CLAMP

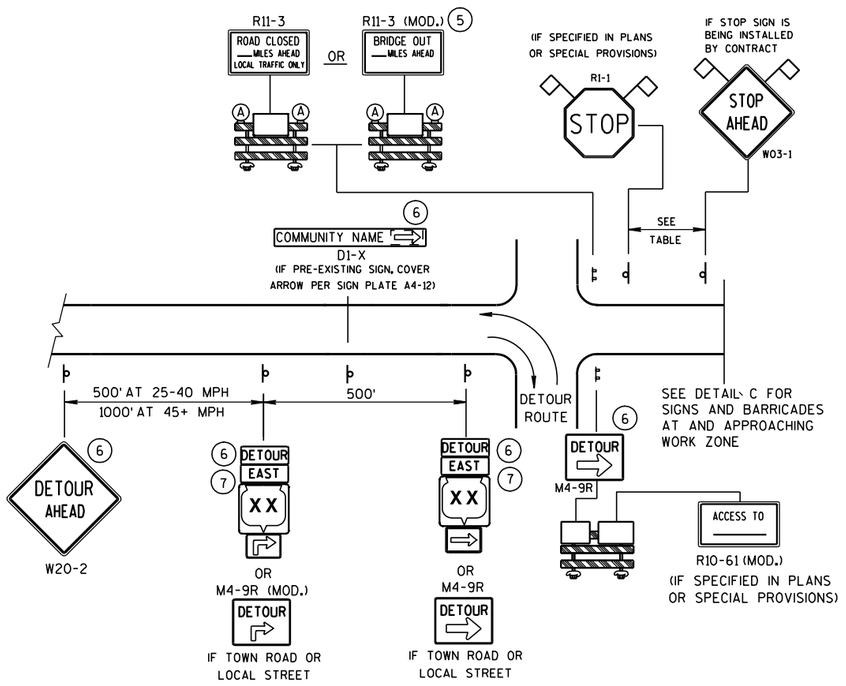
FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/19/2010
DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS D875
ENGINEER
FHWA

6

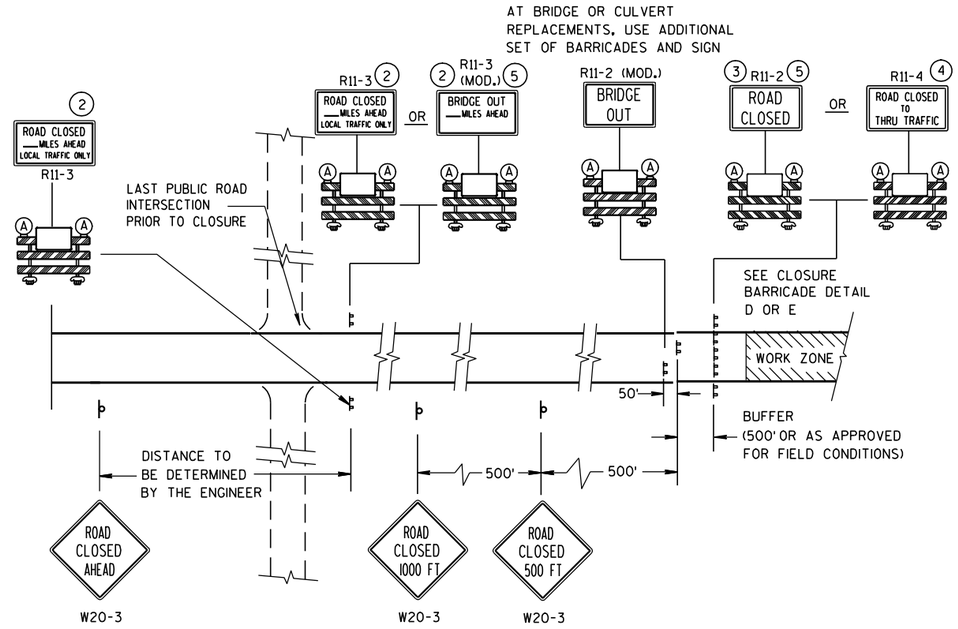
S.D.D. 15 B 3-12b



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

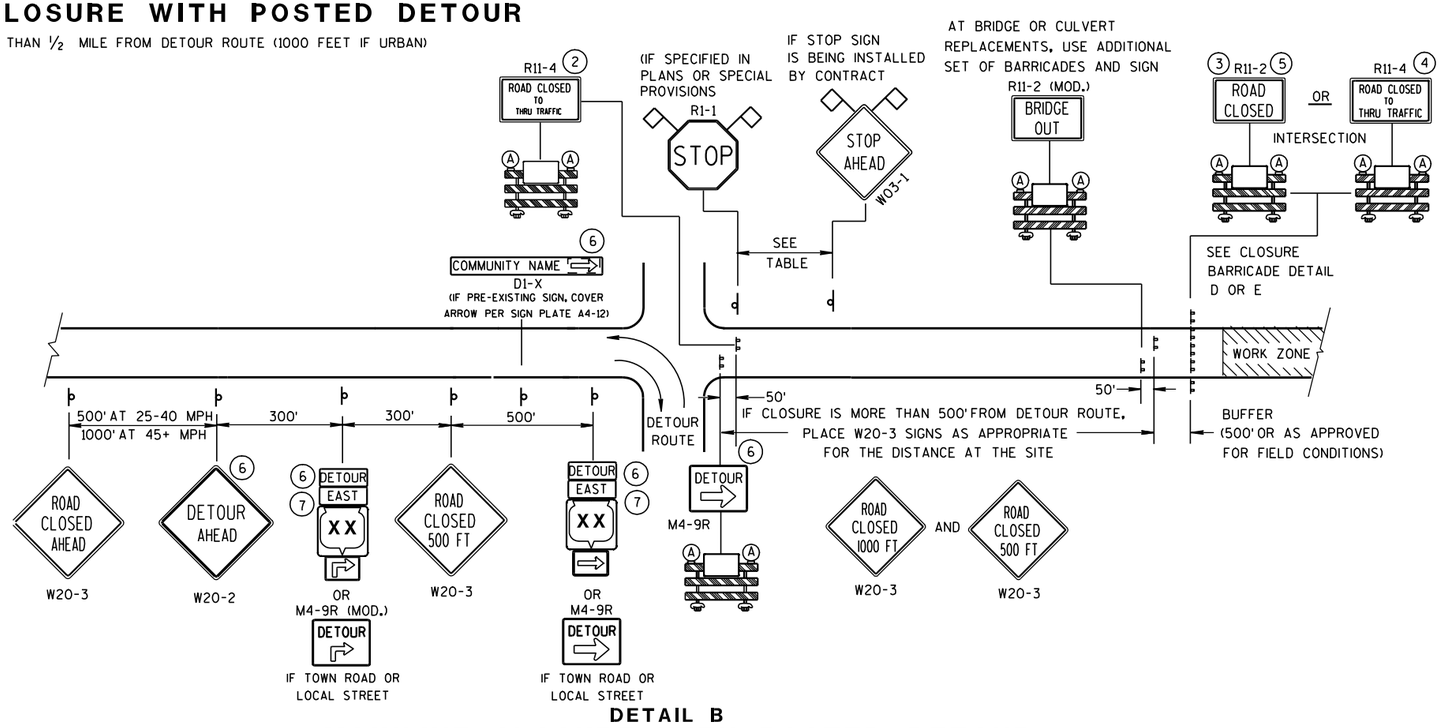


DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-4b
FOR GENERAL NOTES
AND FOOTNOTES (1) THROUGH (7)



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

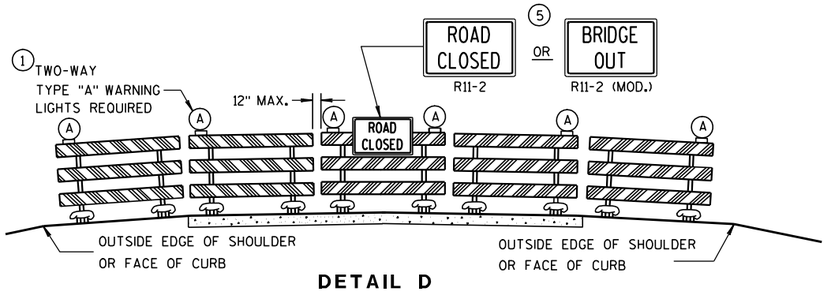
- POST MOUNTED SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK ZONE
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

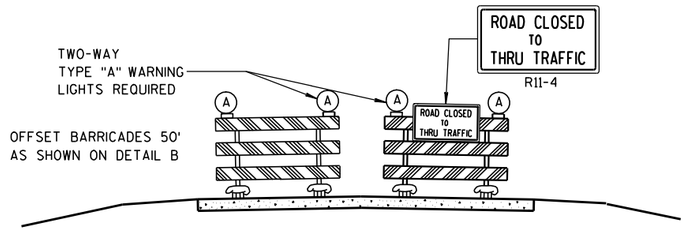
S.D.D. 15 C 2-4a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

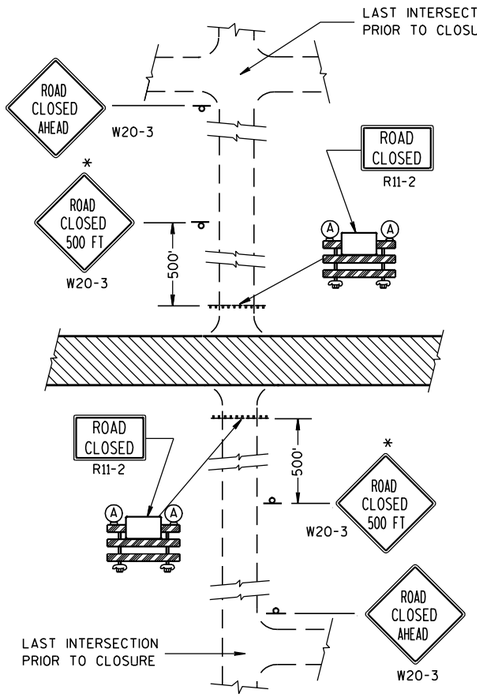
9/16/03
DATE

/S/ Thomas N. N[illegible]
CHIEF SIGNS AND MAR877 INEER

FHWA

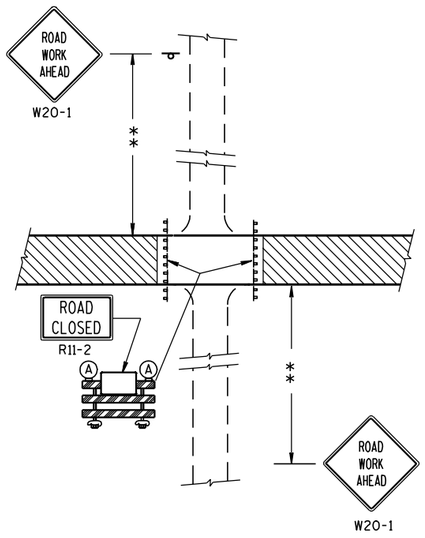
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S.D.D. 15 C 2-4b



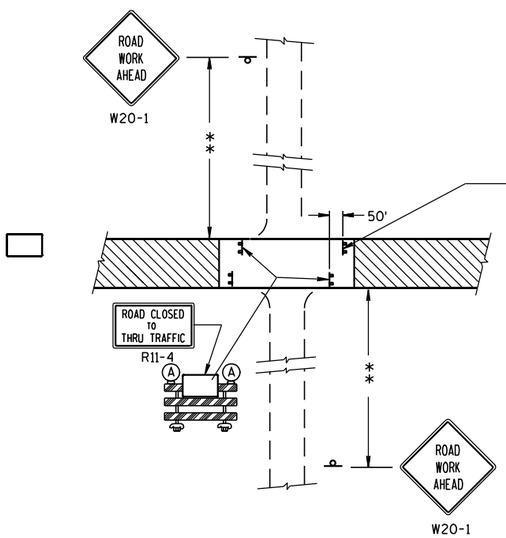
DETAIL 1

(NO ACCESS TO PROJECT)



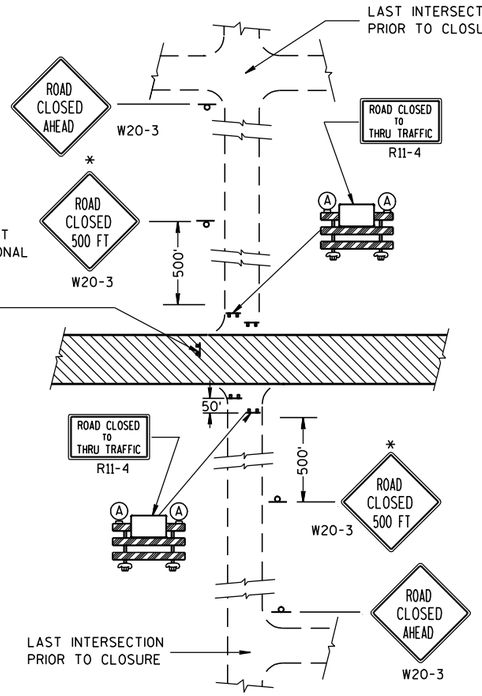
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3 AND R11-4 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- POST MOUNTED WARNING SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9-16-03 DATE

/S/ Thomas N. N- [illegible] 878
CHIEF SIGNS AND MAR [illegible] INEER

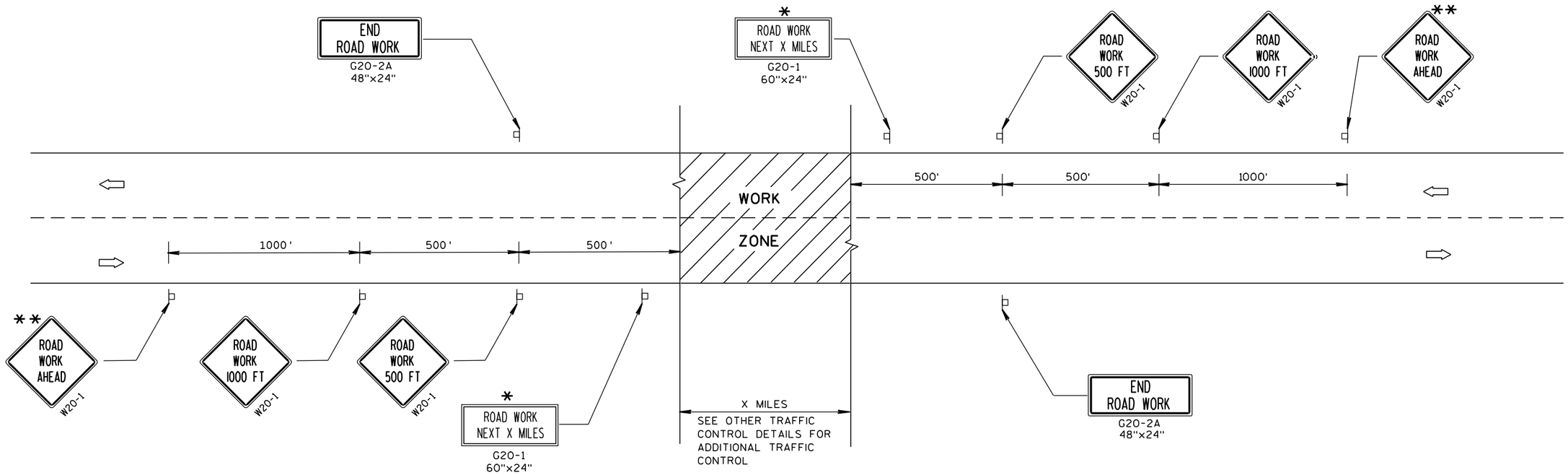
FHWA

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S.D.D. 15 C 3-1

6

S.D.D. 15 C 3-1



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

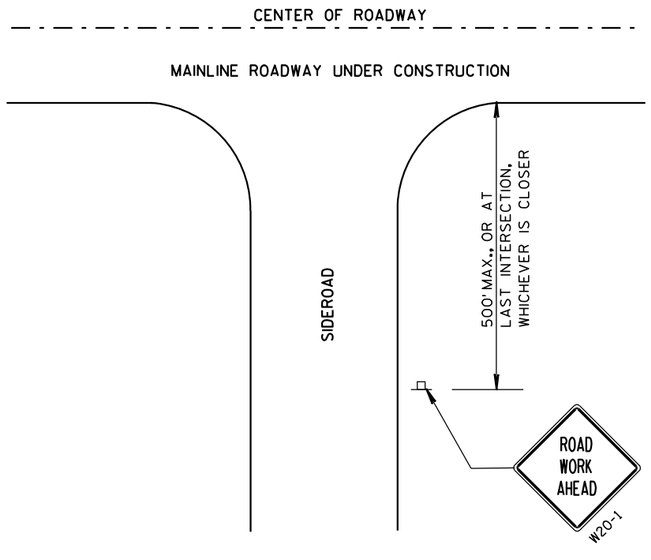
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING.

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

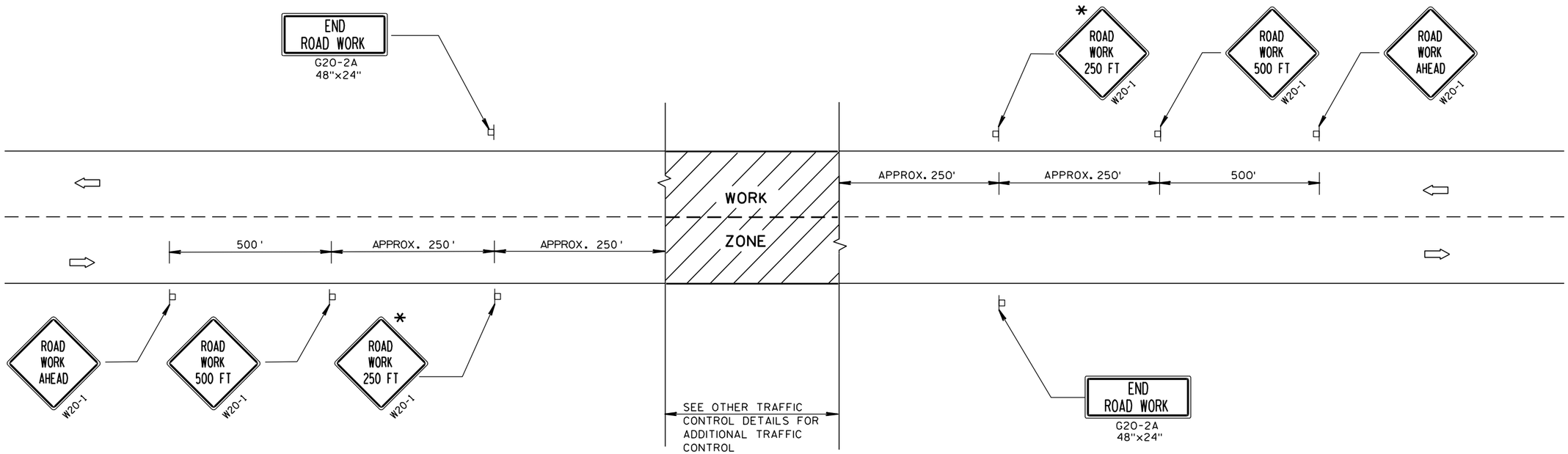
5/23/00 DATE

/S/ Chester J. [illegible] 879 NEER
CHIEF SIGNS AND MARK

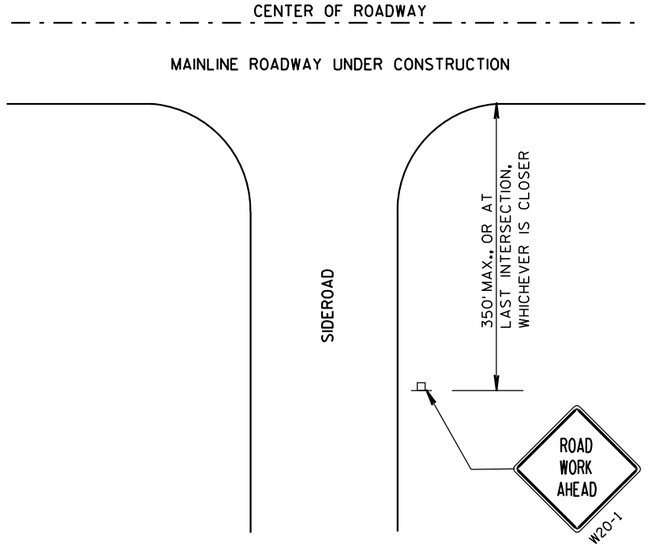
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S.D.D. 15 C 4-1



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00
DATE

/S/ Chester J. [illegible]
880
CHIEF SIGNS AND MARKING ENGINEER

FHWA

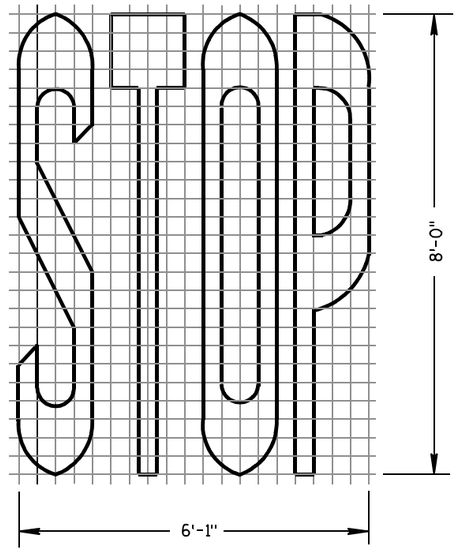
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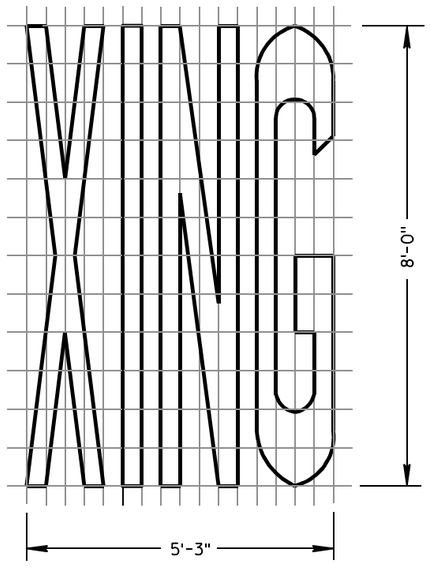
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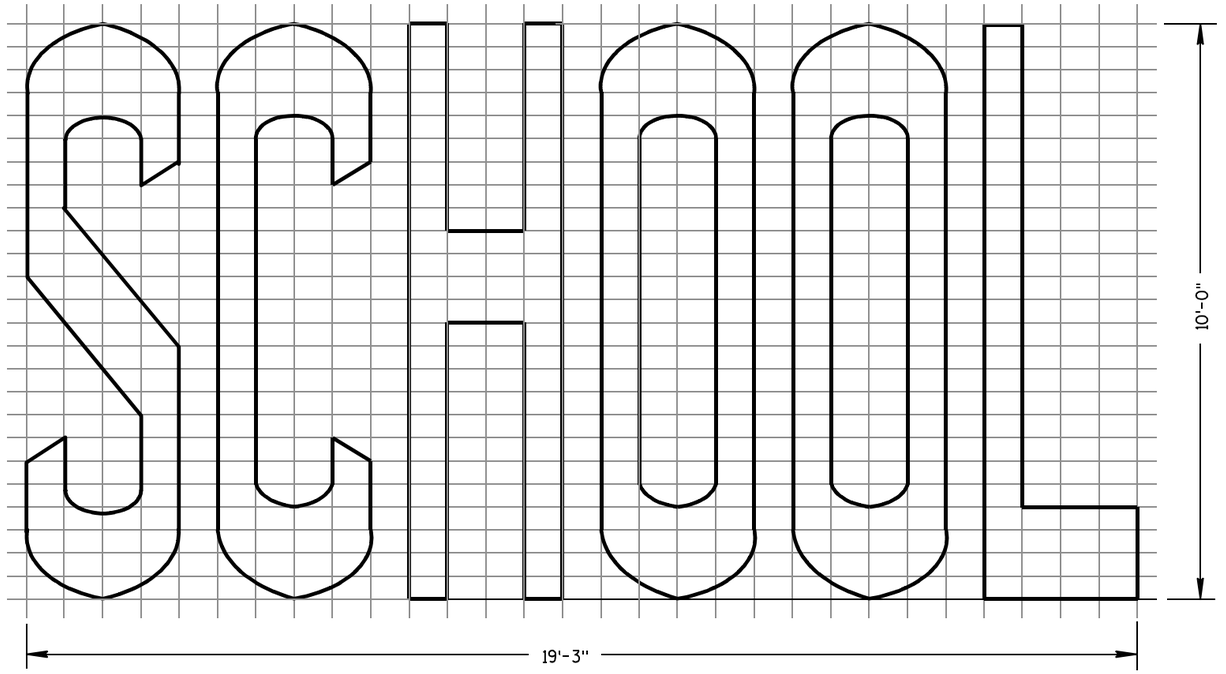
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

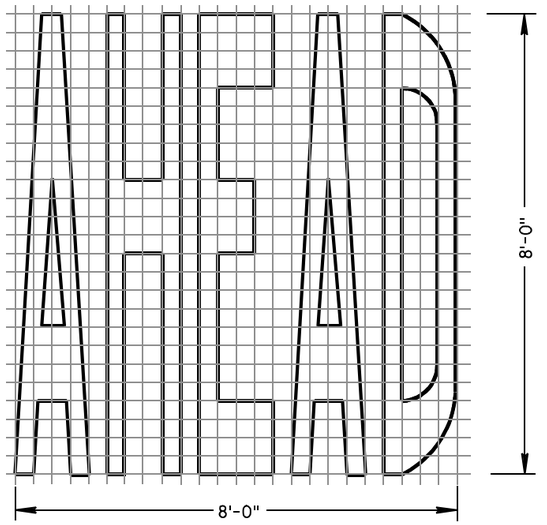
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

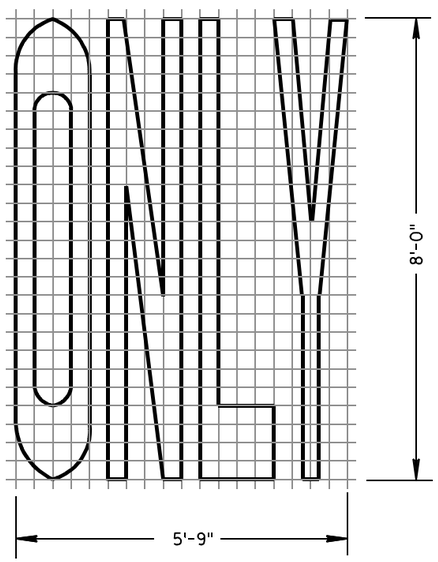


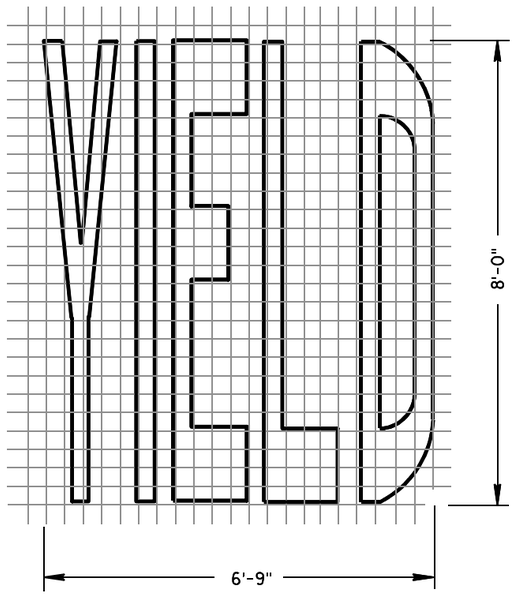


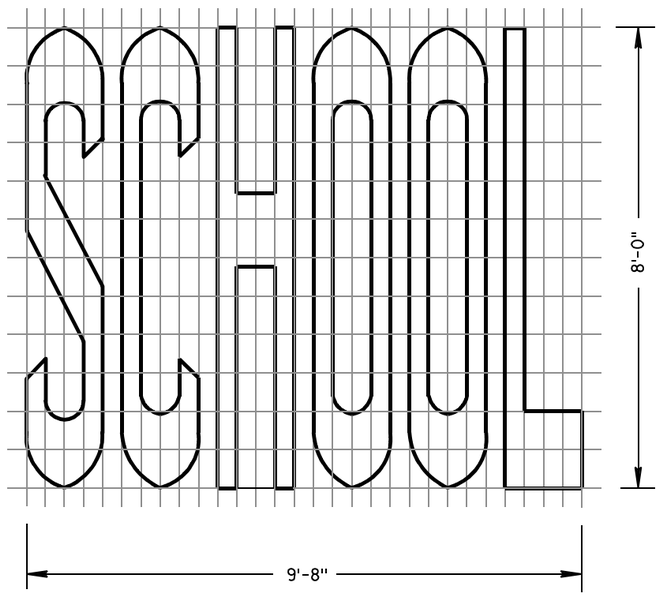


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

FHWA

881 IGN

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S.D.D. 15 C 7-12b

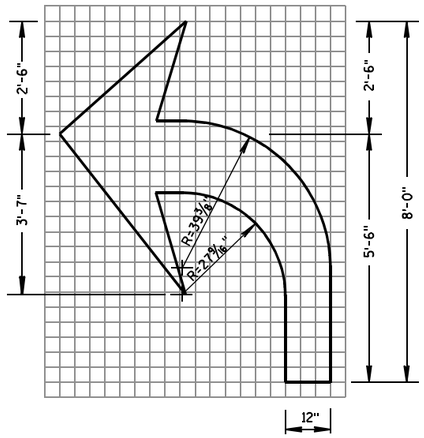
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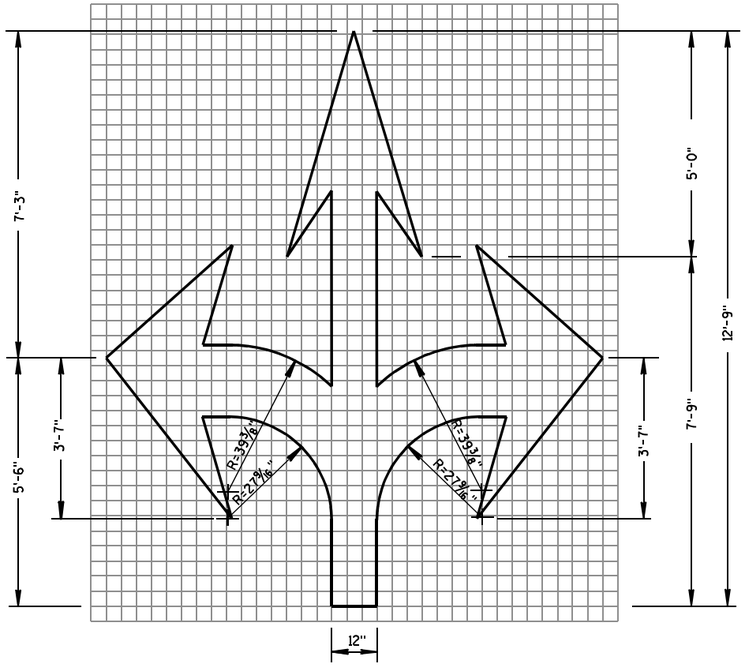
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

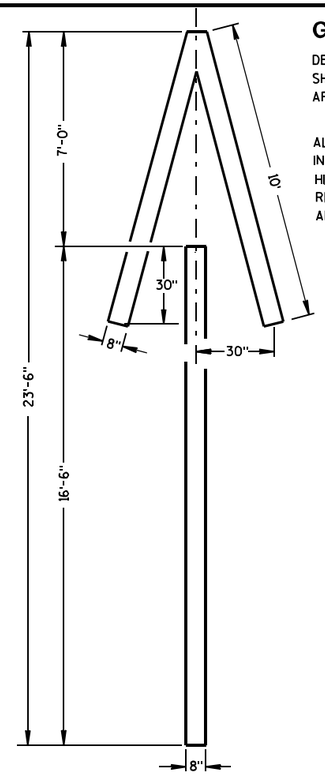
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



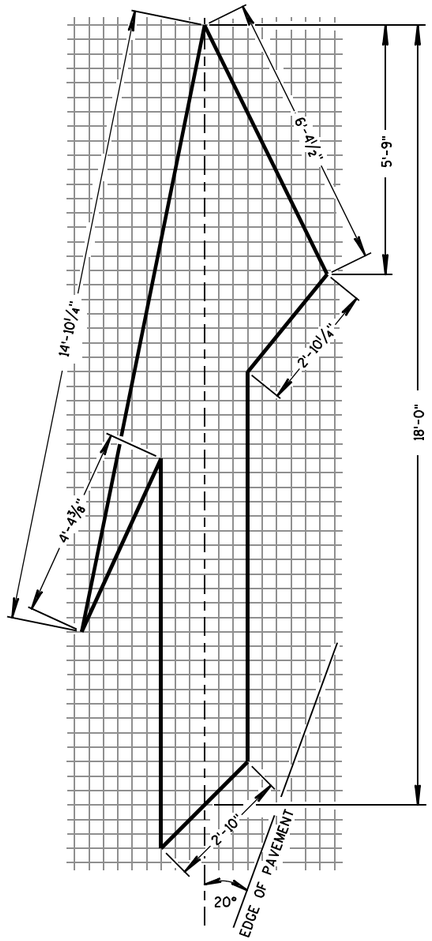
TYPE 2



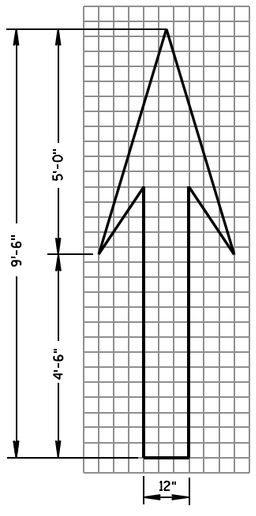
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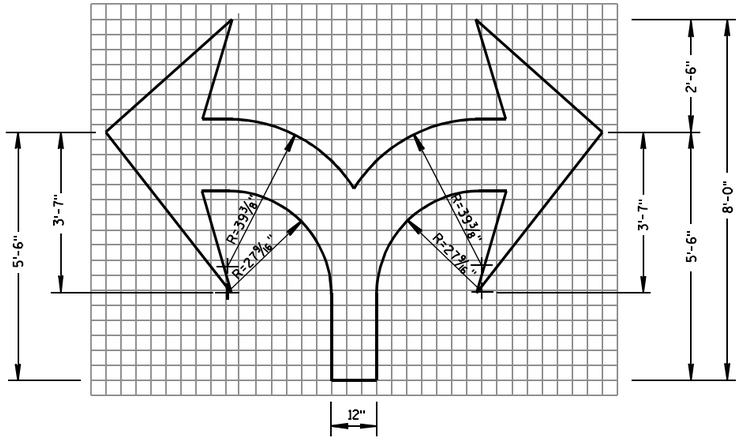
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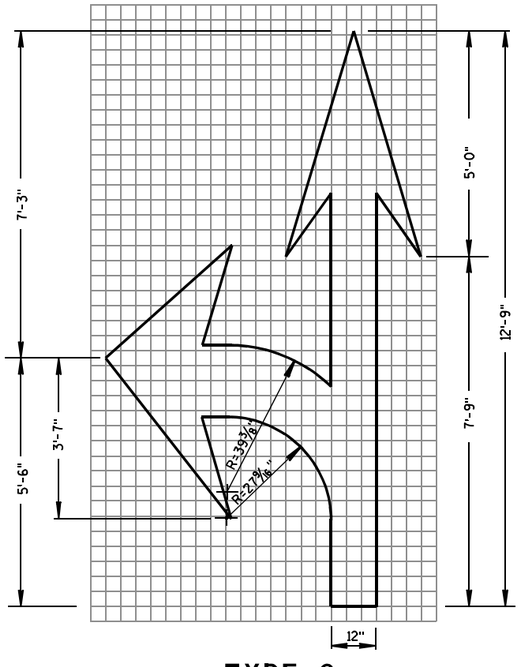
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothohm — STATE TRAFFIC ENGINEER

FHWA

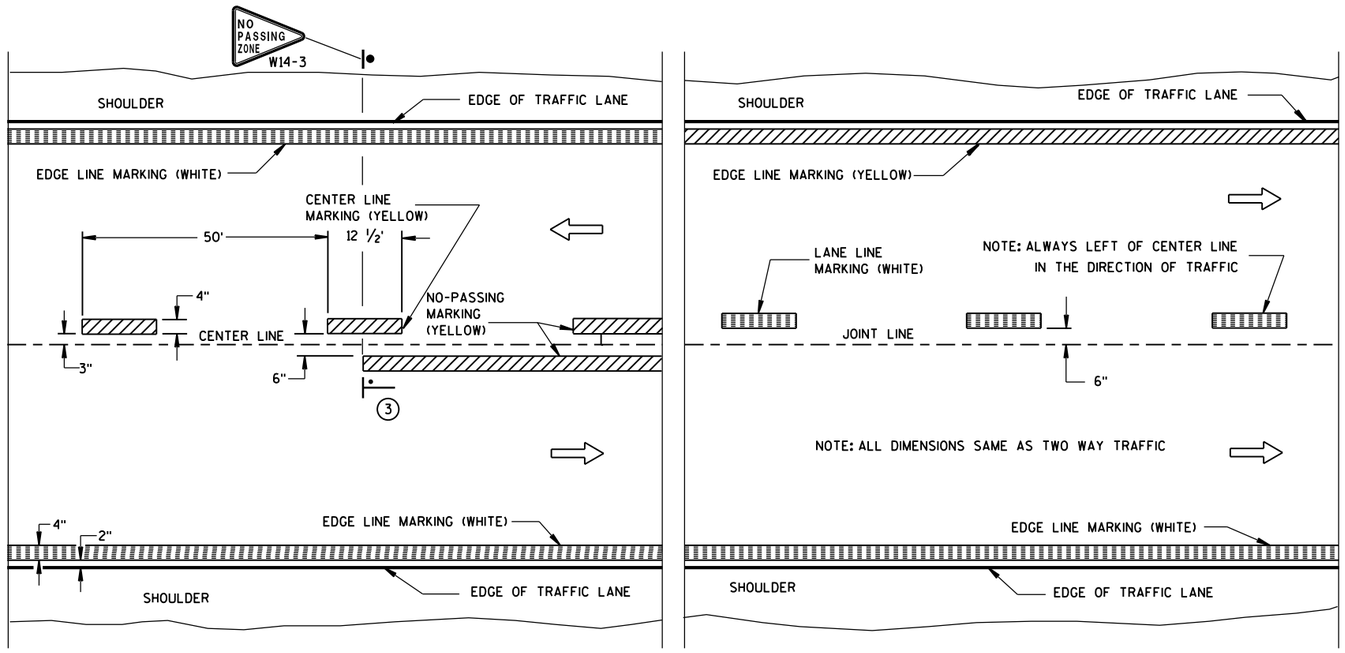
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S.D.D. 15 C 7-12c

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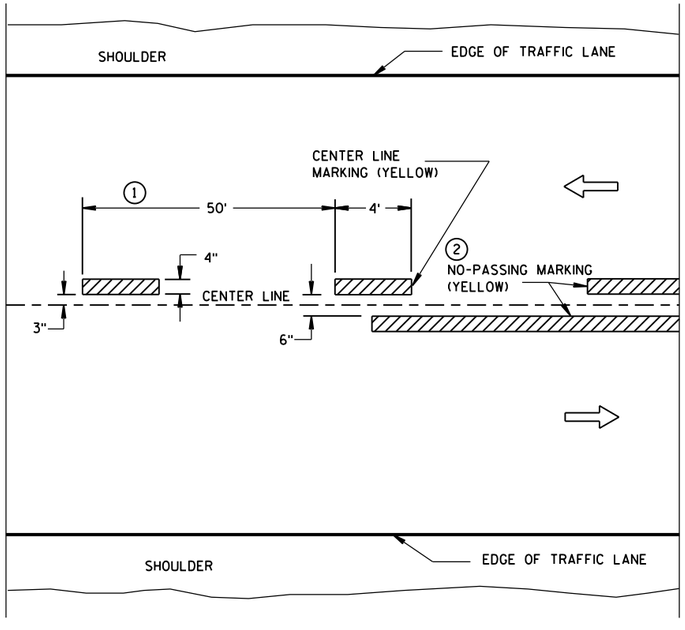
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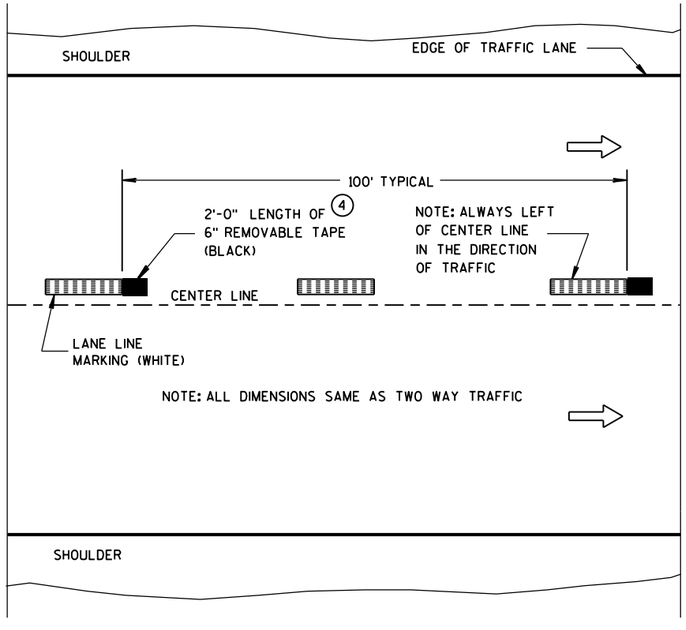
TWO WAY TRAFFIC

ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

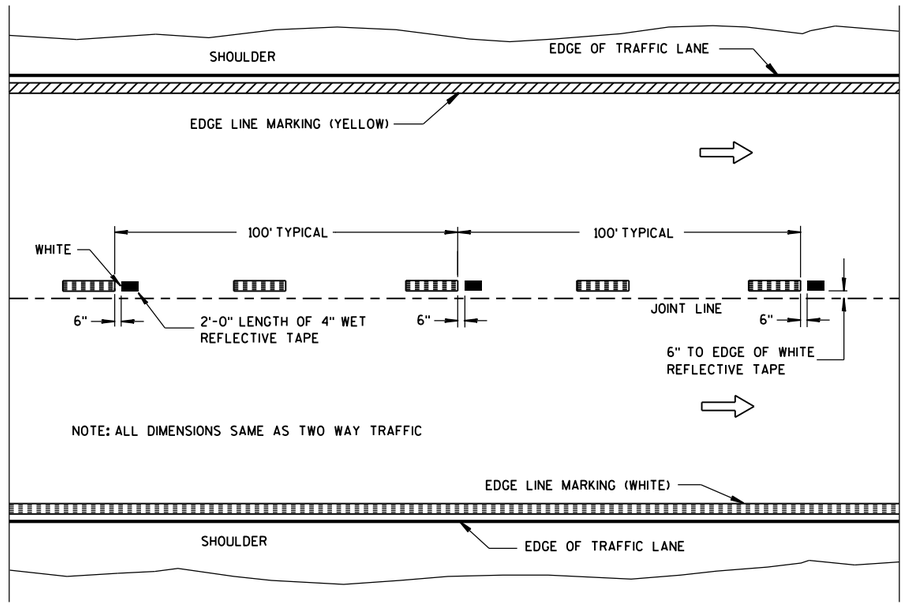
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

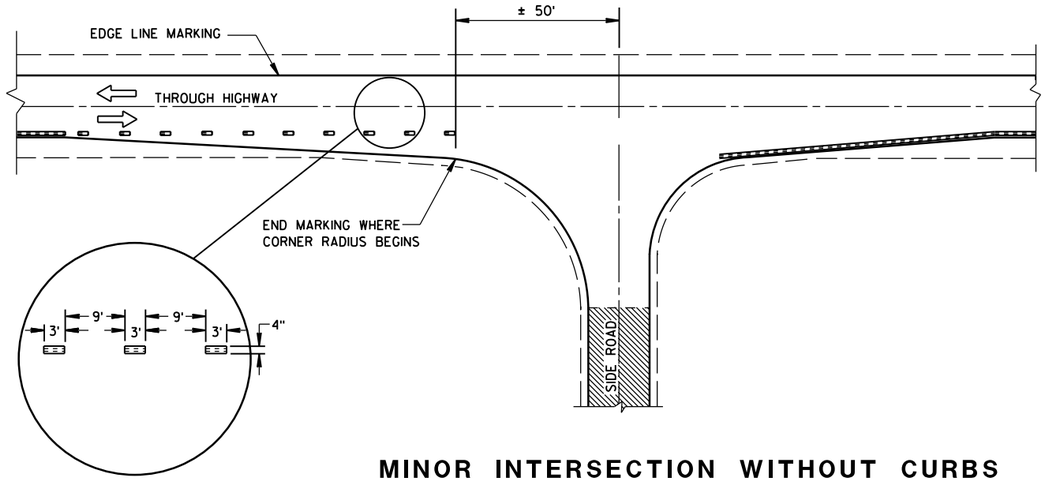
APPROVED
10-1-2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
883 — SIGN
FHWA

6

S.D.D. 15 C 8-15a

6

S.D.D. 15 C 8-15a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

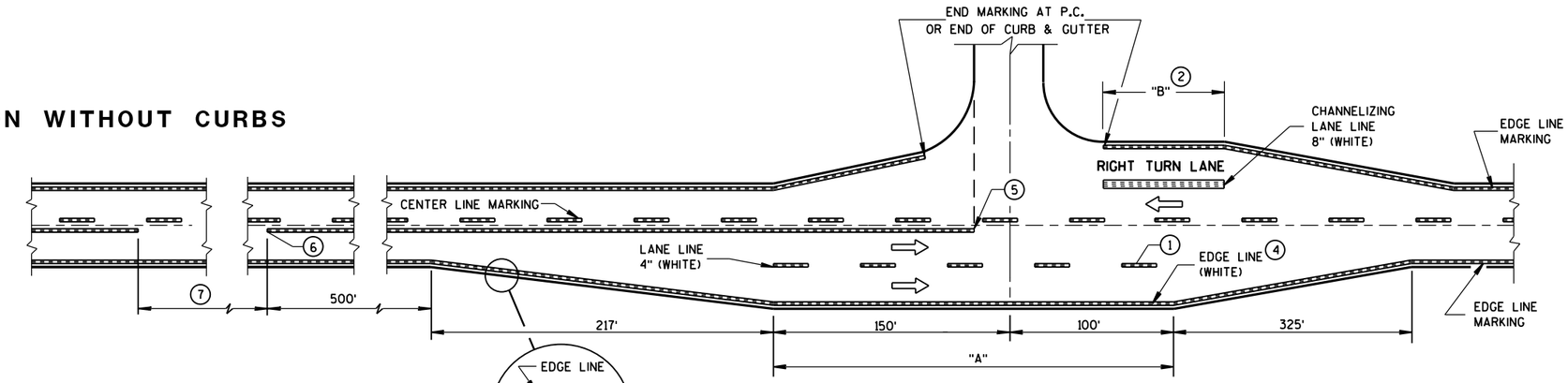
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

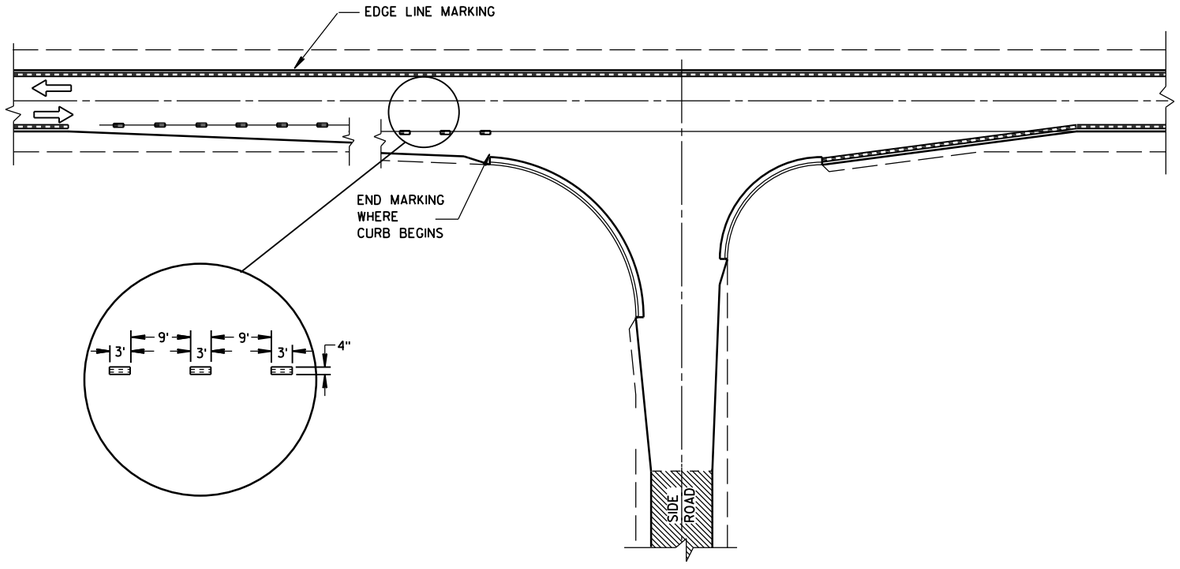
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



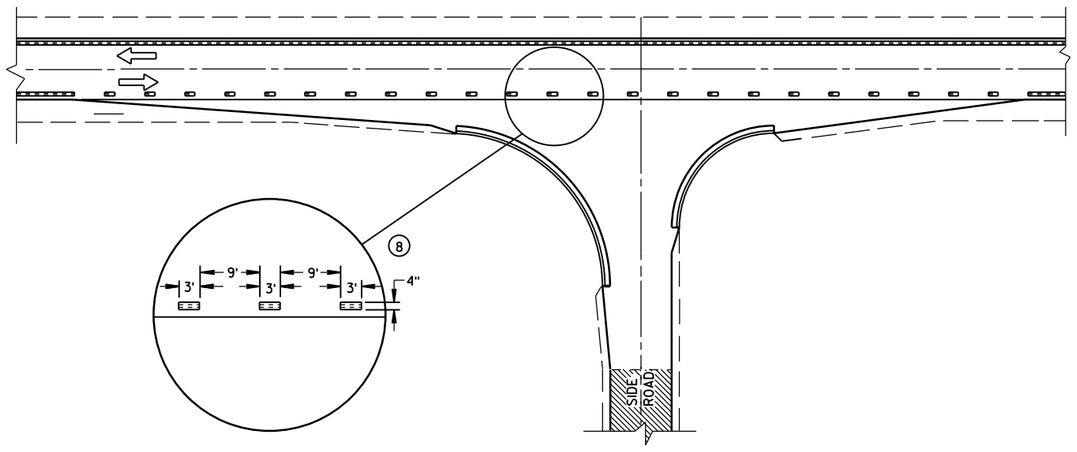
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

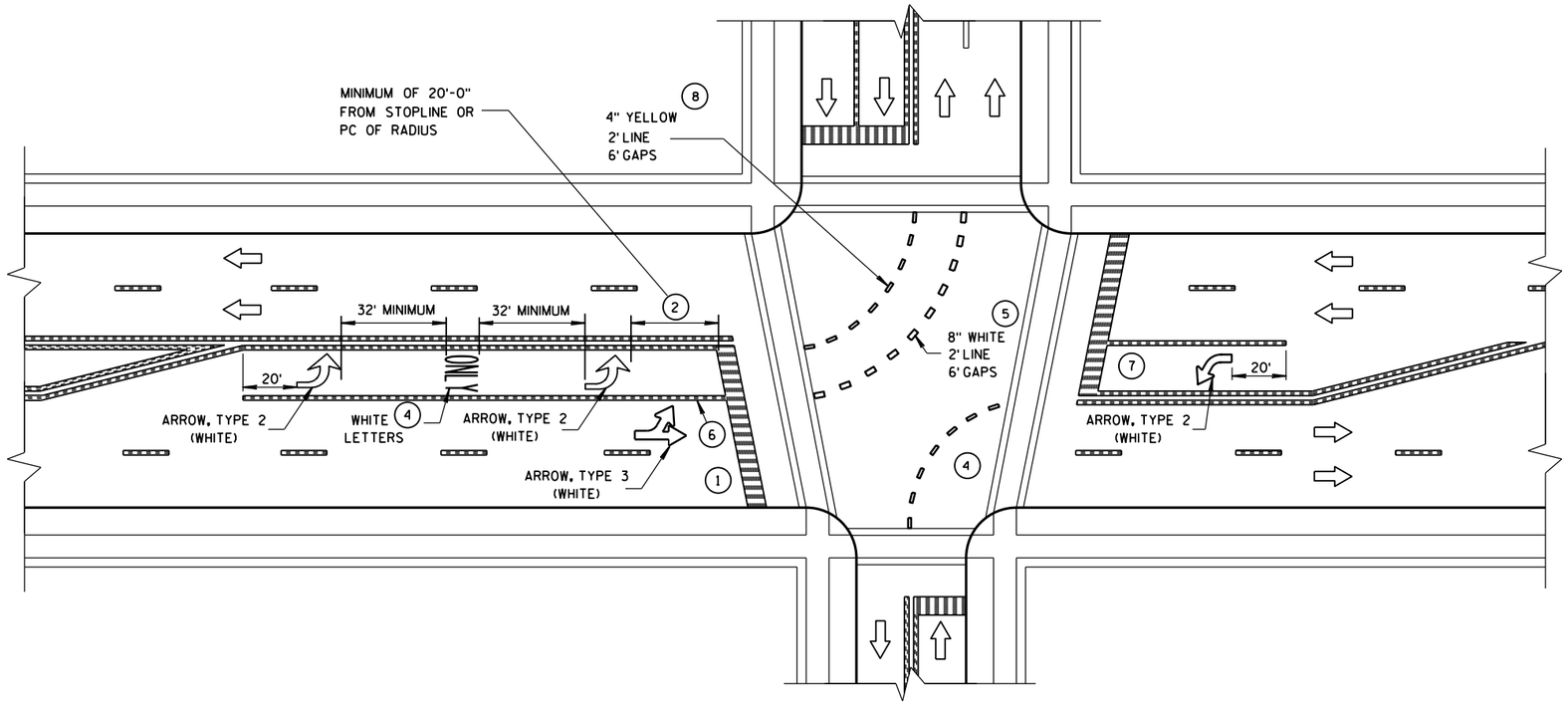
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 884

6

S.D.D. 15 C 8-15b

6

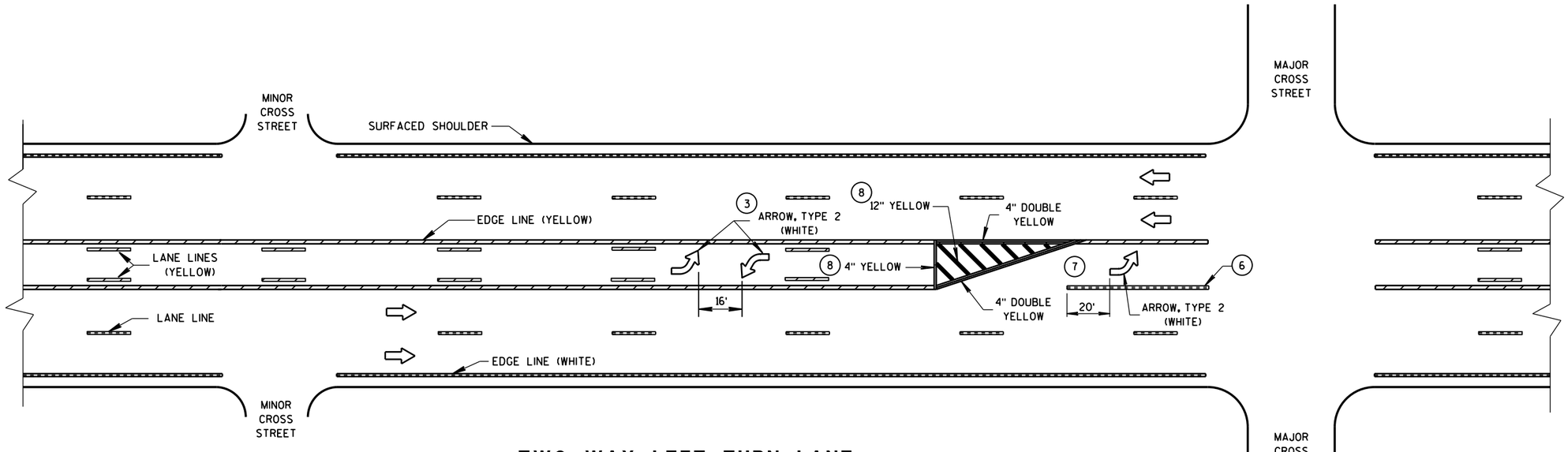
S.D.D. 15 C 8-15b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400' OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA ARROW AND ONLY PER 160' OR WHEN ON A CURVE.
5. 8" WHITE WITH 2'LINE 6'GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108'.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

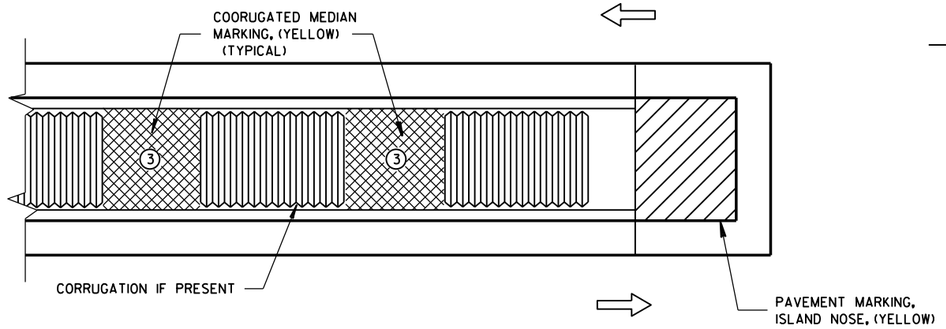
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

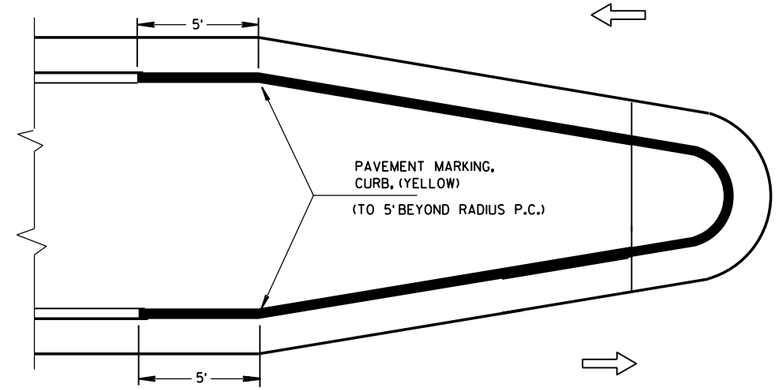
S.D.D. 15 C 8-15e

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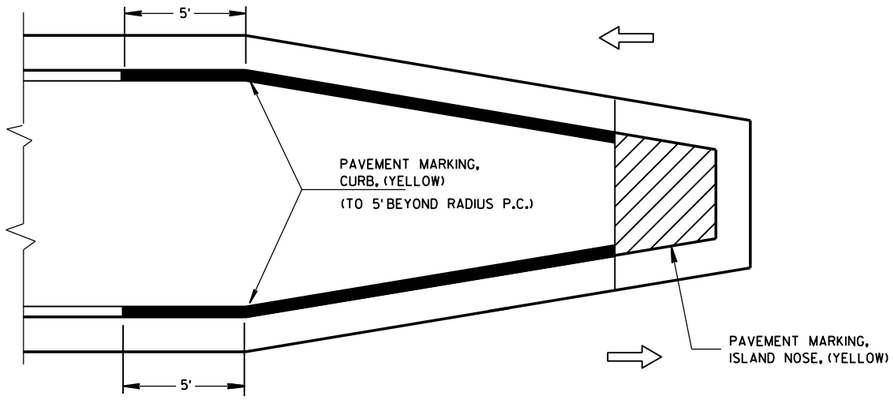
S.D.D. 15 C 8-15e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

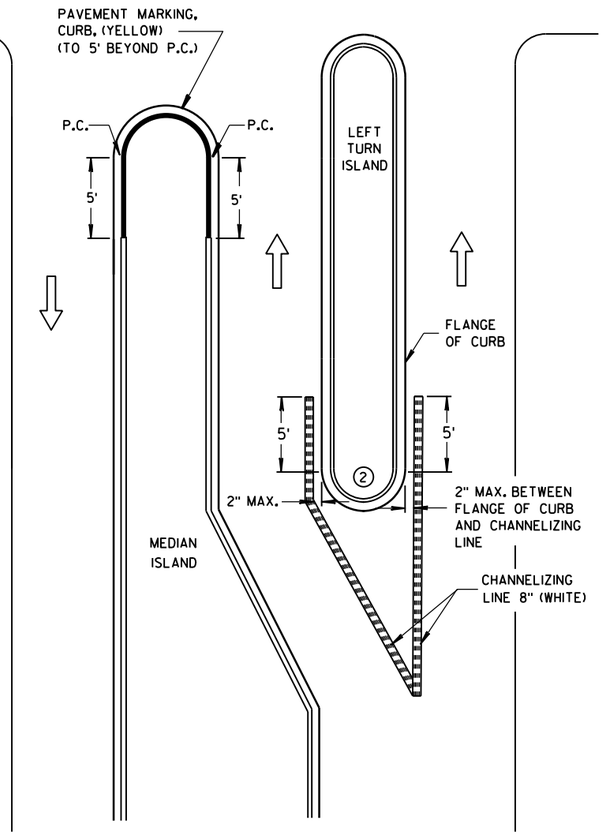


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

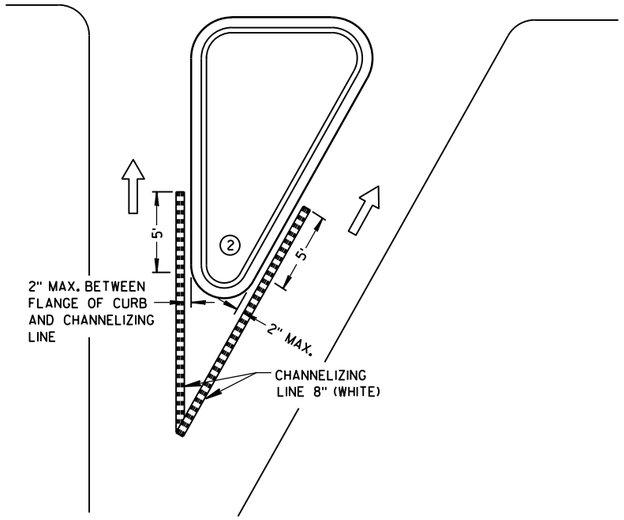
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



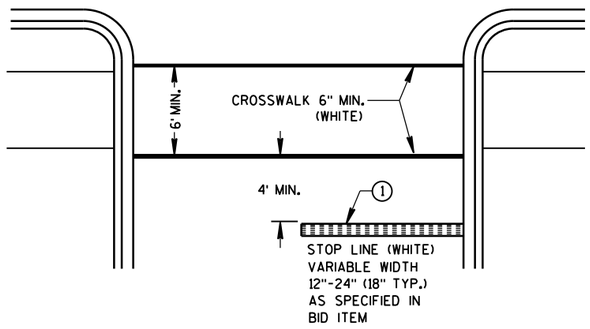
LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
3. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND



STOP LINE AND CROSSWALK

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS, STOP LINE &
CROSS WALK)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

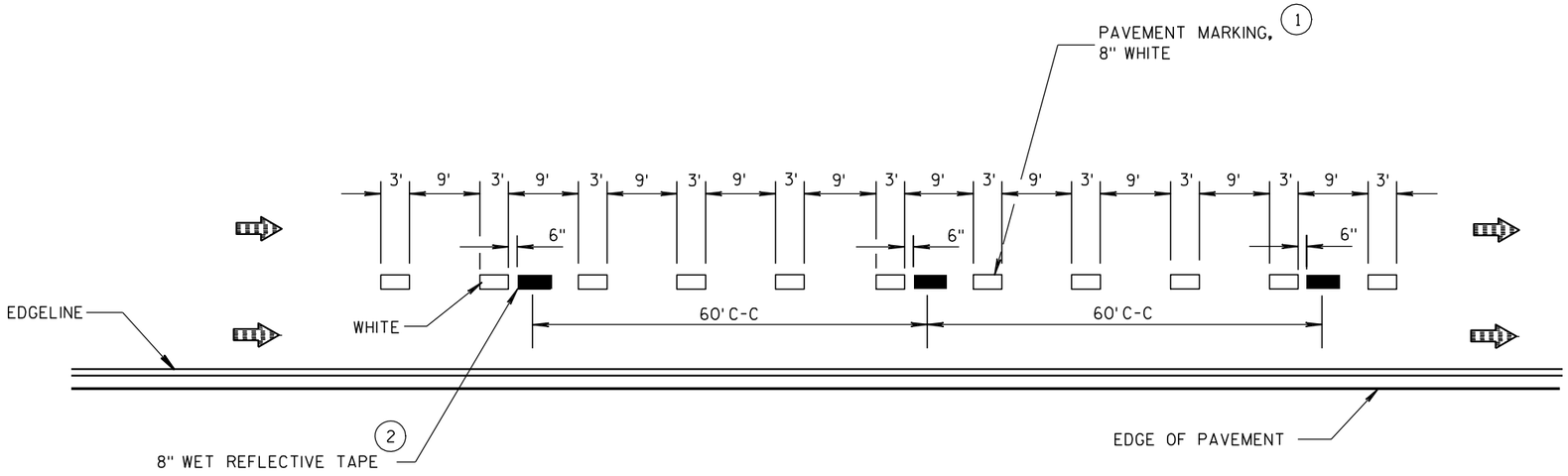
886

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S.D.D. 15 C 8-15f

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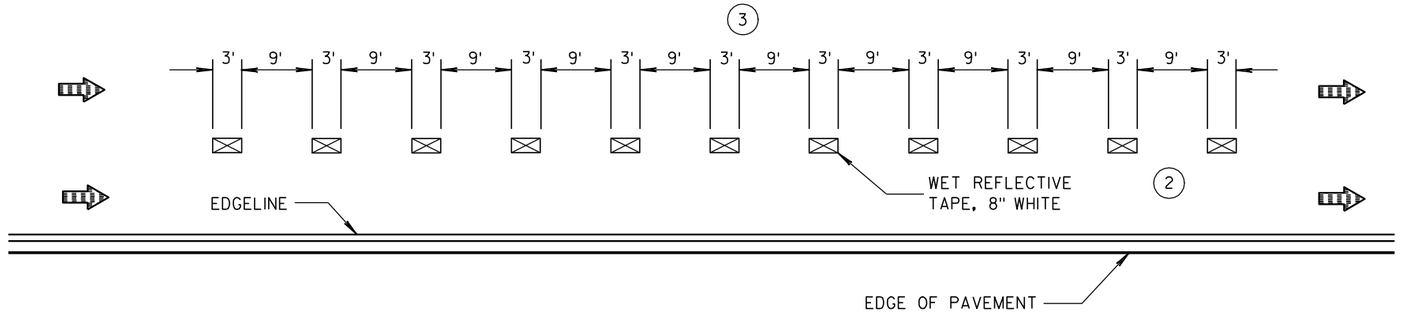
S.D.D. 15 C 8-15f



SPRAYED OR NON WET REFLECTIVE DROP LANE LINE SUPPLEMENTED BY WET REFLECTIVE TAPE SEGMENT

GENERAL NOTES

1. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE. RETRACE EXISTING 4" MARKING WITH 8" MARKING.
2. REPLACE SAME 4" WET REFLECTIVE TAPE WHERE EXISTING 4" TAPE IS IN PLACE.
3. 3' LINE 9' GAP, EXCEPT REPLACE THE EXISTING LINE - GAP PATTERN AND WIDTH OF TAPE WHERE EXISTING TAPE IS IN PLACE.



DROP LANE DETAIL FOR NEW WET REFLECTIVE TAPE INSTALLATIONS

LEGEND

- 2.0' LENGTH OF WET REFLECTIVE TAPE
- 3.0' LENGTH OF WET REFLECTIVE TAPE
- DROP LANE MARKING SPRAYED OR NON WET REFLECTIVE TAPE
- DIRECTION OF TRAFFIC

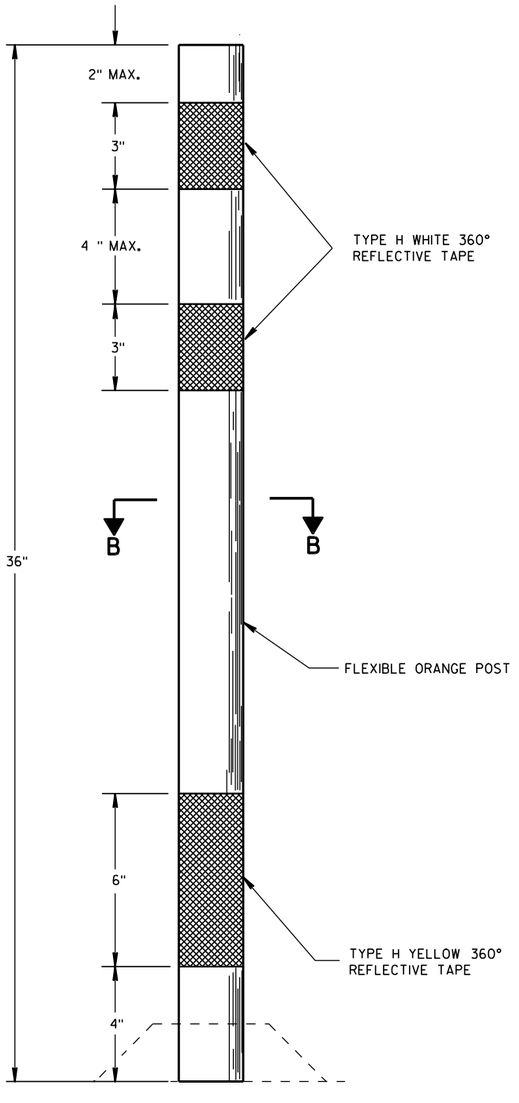
PAVEMENT MARKINGS FOR DROP LANES FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

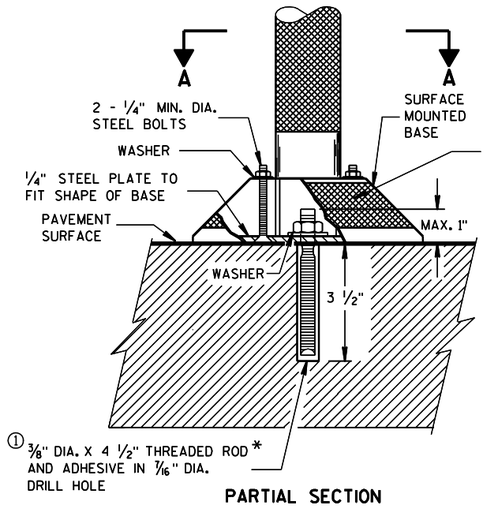
APPROVED
5/13/10 DATE
/S/ Thomas N. Nothohm
STATE TRAFFIC ENGINEER
FHWA

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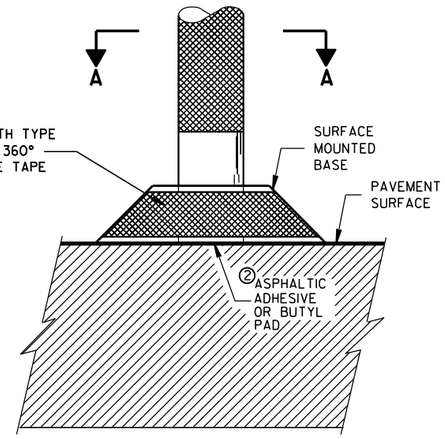
S.D.D. 15 C 10-10



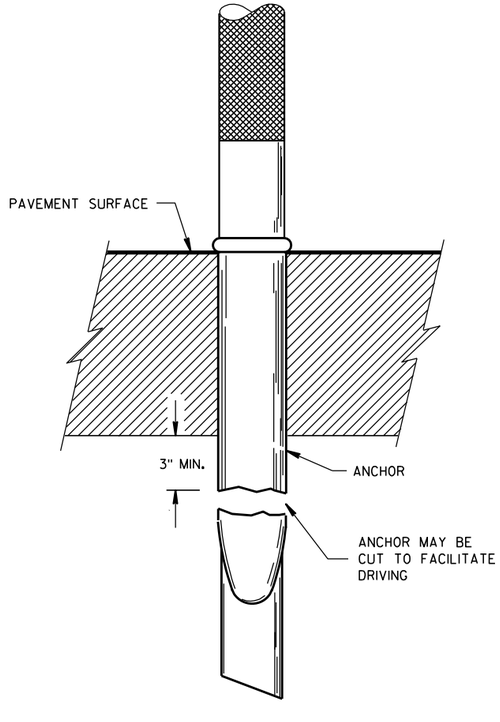
FLEXIBLE TUBULAR MARKER POST

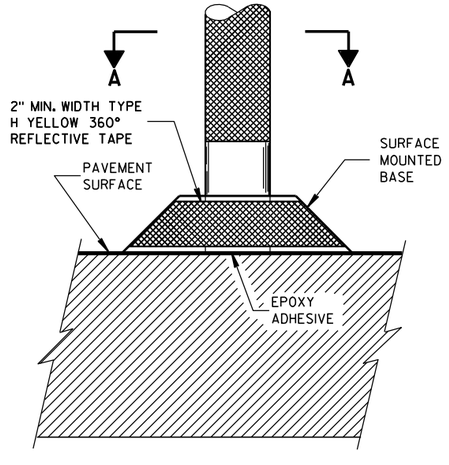


PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT





POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED

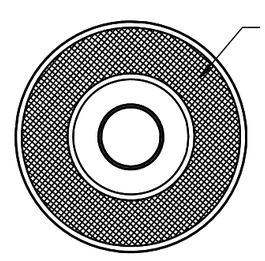
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

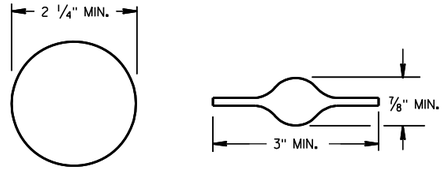
① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



SECTION A-A

SURFACE MOUNTED BASE



SECTION B-B

ALTERNATIVE SHAPES

FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2/17/94 DATE

/S/ Chester J. [illegible] DIRECTOR, OFFICE O 888

FHWA

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S.D.D. 15 C 11-5

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S.D.D. 15 C 11-5

TWO-LANE ROADWAY

SYMBOLS

WORK AREA

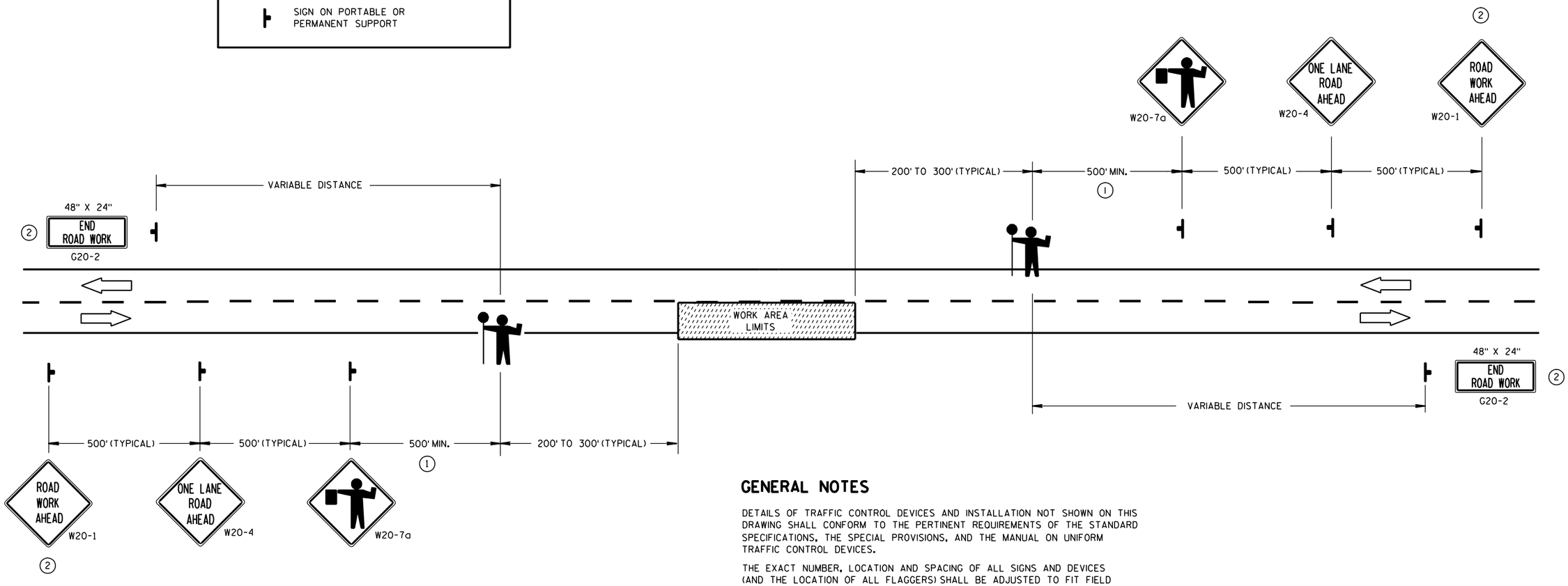
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN ON PORTABLE OR PERMANENT SUPPORT



W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

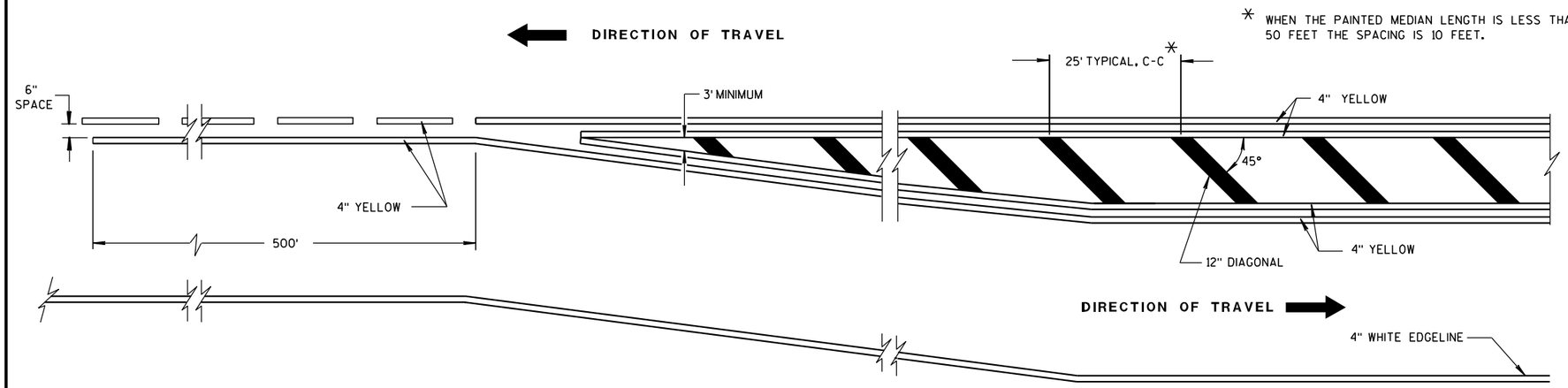
9/5/06 — DATE

/S/ Thomas N. Nathaam — STATE TRAFFIC ENGINEER

FHWA

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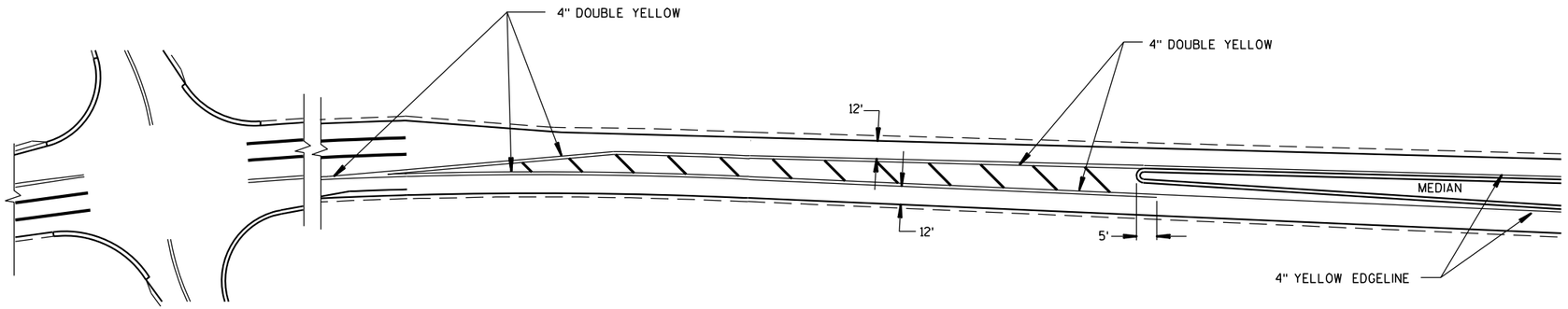
S.D.D. 15 C 12-3



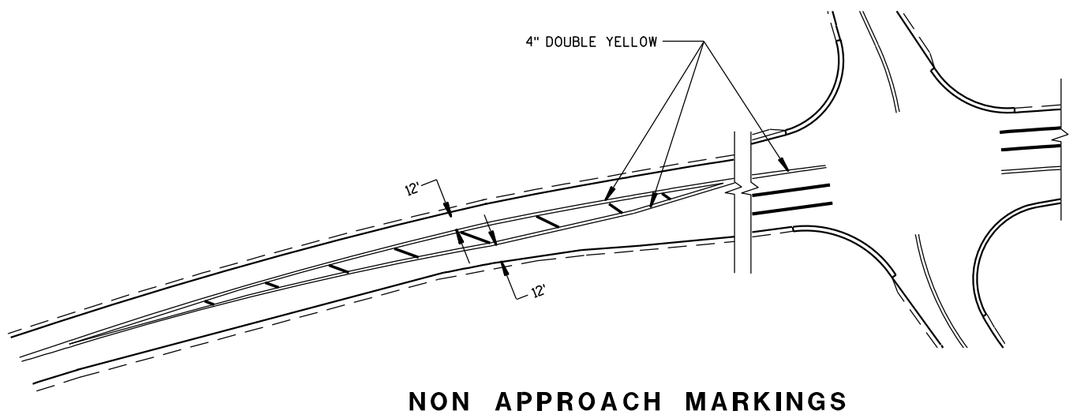
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

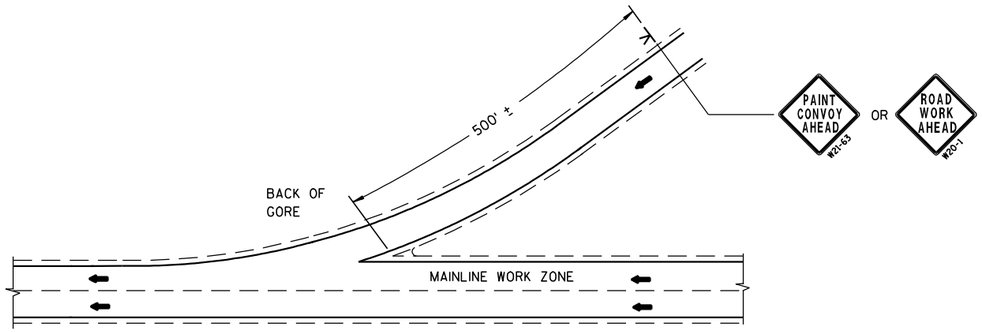
MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER 890 IGN
FHWA	

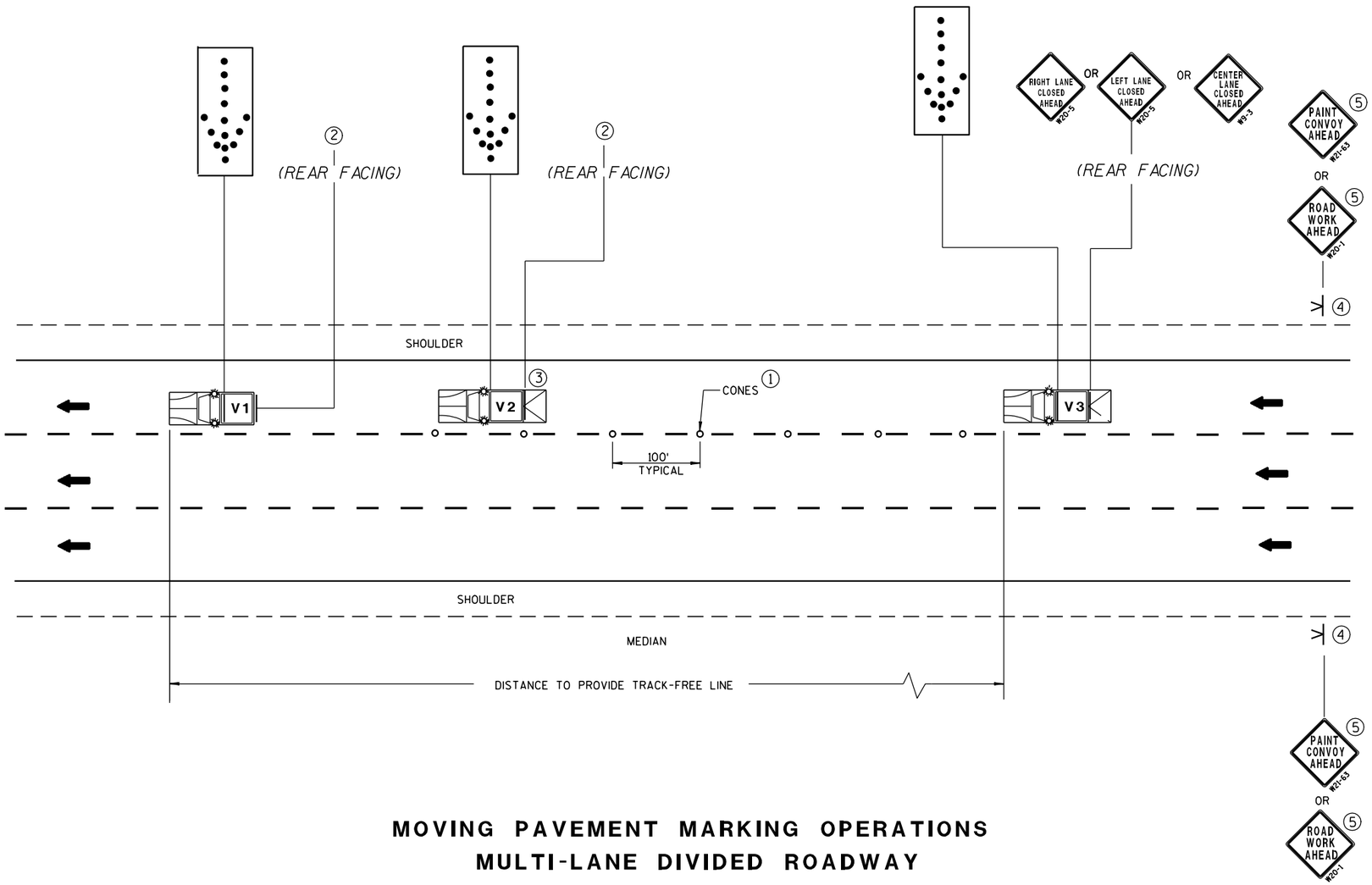
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S.D.D. 15 C 18-3

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S.D.D. 15 C 18-3





MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON PORTABLE SUPPORT
	DIRECTION OF TRAVEL
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/6/2011 DATE

/S/ Thomas N. Nothohm
STATE TRAFFIC ENGINEER

891 SIGN

FHWA

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S.D.D. 15 C 19-1c

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S.D.D. 15 C 19-1c

GENERAL NOTES

ORIENT ANCHOR BOLTS IN FOOTING AND PROVIDE ANCHOR BOLT STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR BOLTS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

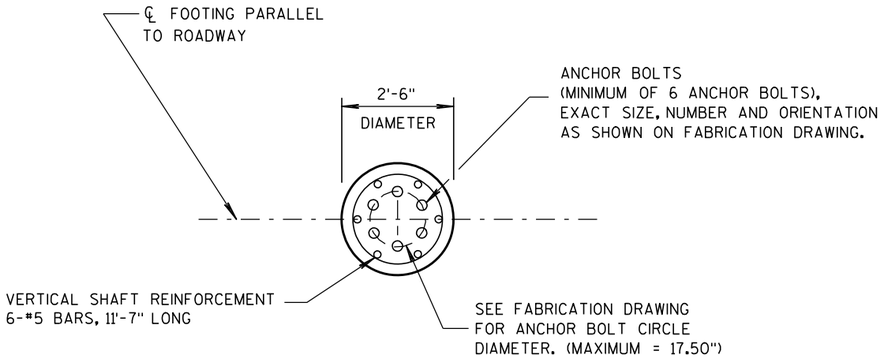
IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

THE REINFORCEMENT AND ANCHOR BOLTS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ANY DAMAGE TO THE CONCRETE BASE DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

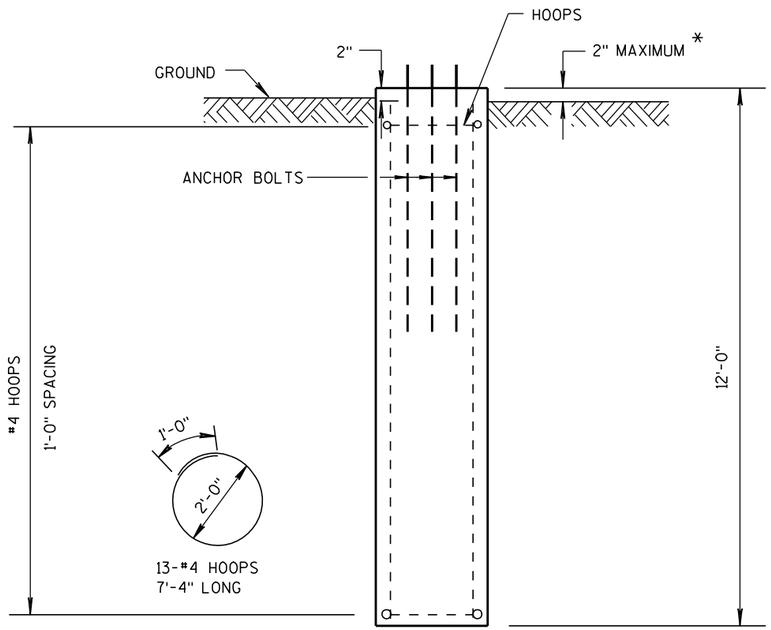
CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR BOLTS	AASHTO M314 GRADE 55

THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



PLAN VIEW

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.



ELEVATION VIEW

CONCRETE - 2.2 C.Y. PER FOOTING
H.S. REINFORCEMENT - 136 LBS. PER FOOTING

30" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

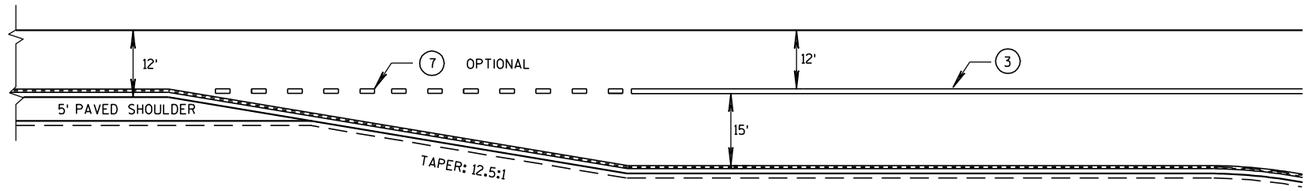
APPROVED
4/17/2009 DATE
/S/ Thomas N. N[illegible] STATE TRAFFIC ENGINEER
892 SIGN
FHWA

6

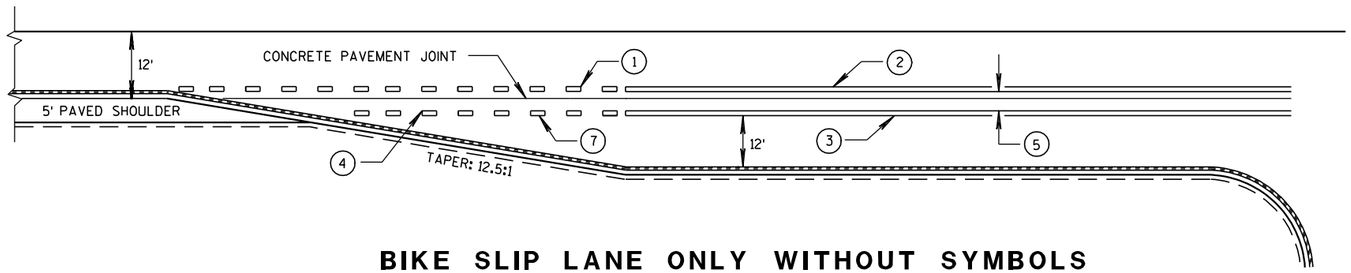
S.D.D. 15 C 23-2

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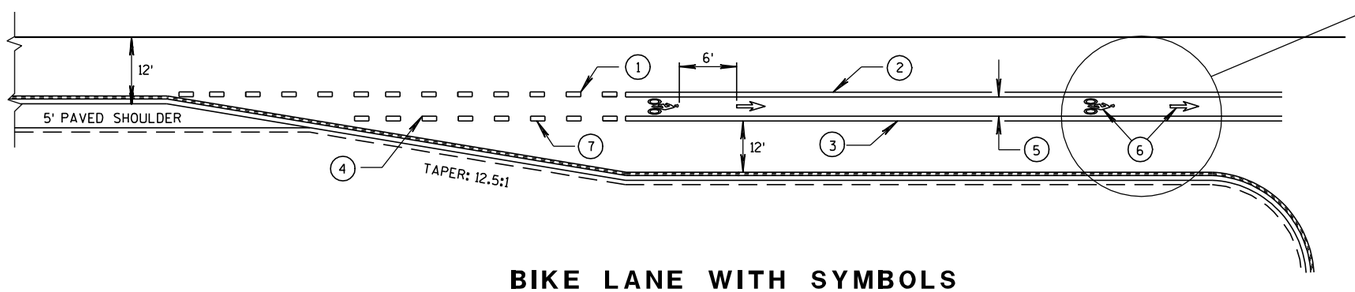
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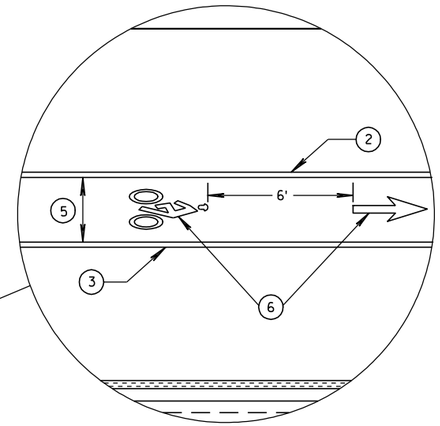


WIDER TURN LANE



BIKE SLIP LANE ONLY WITHOUT SYMBOLS





BIKE LANE WITH SYMBOLS

GENERAL NOTES

1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMMODATION FOR CONCRETE PAVEMENT IS 5' WIDE.
   2 LANE (3' LEFT, 2' RIGHT OF JOINT).
   4 LANE (2' LEFT, 3' RIGHT OF JOINT).
   BIKE ACCOMMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4', 5' AT ≥ 45 MPH.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/6/2012 DATE
/S/ Thomas N. N[illegible] STATE TRAFFIC ENGINE 893 SIGN
FHWA

6

S.D.D. 15 C 29-2a

6

S.D.D. 15 C 29-2a

GENERAL NOTES

(1) 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.

(2) 4-INCH, WHITE.

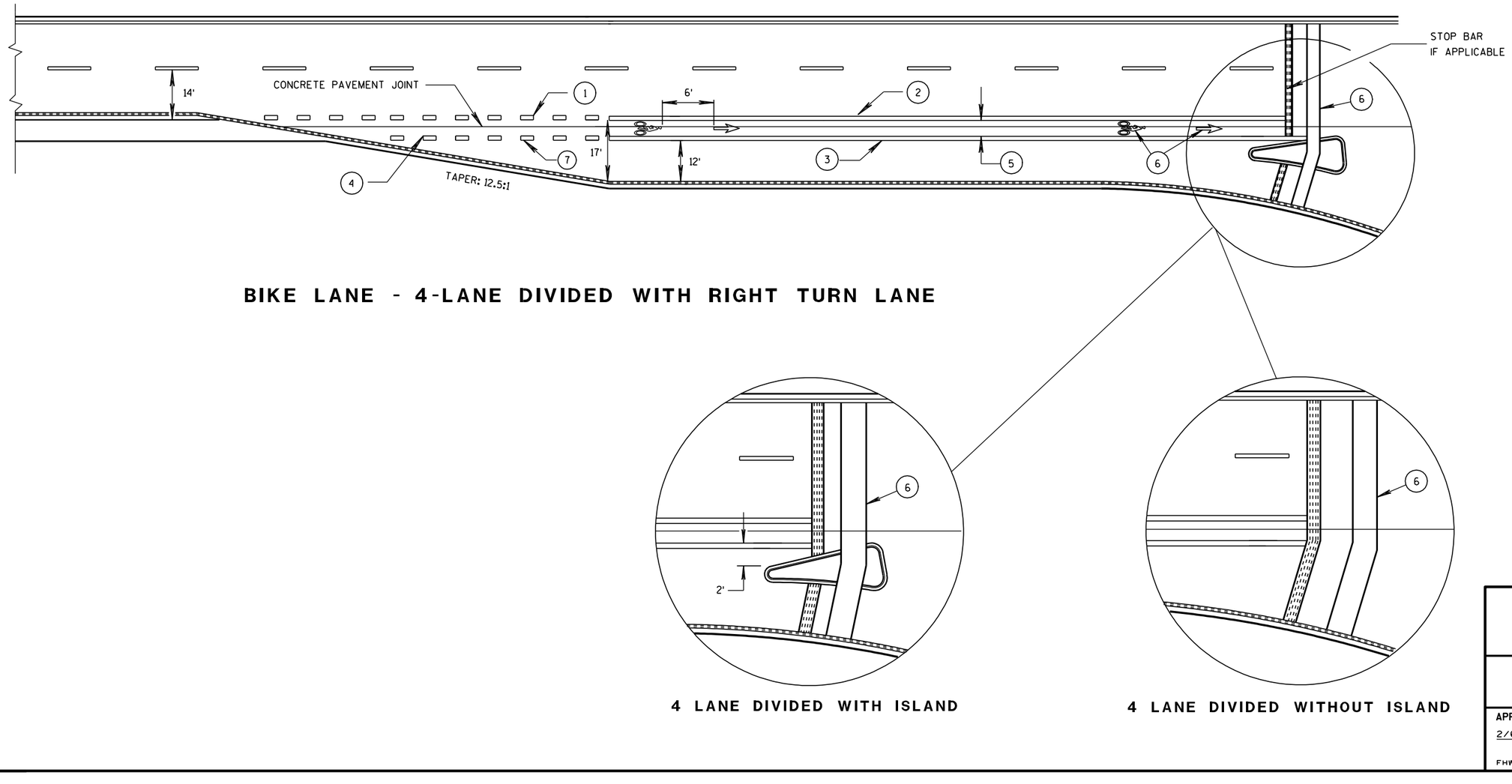
(3) 8-INCH, WHITE.

(4) IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.

(5) BIKE ACCOMMODATION FOR CONCRETE PAVEMENT IS 5' WIDE.
2 LANE (3' LEFT, 2' RIGHT OF JOINT).
4 LANE (2' LEFT, 3' RIGHT OF JOINT).
BIKE ACCOMMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4', 5' AT ≥ 45 MPH.

(6) REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

(7) 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.



BIKE LANE - 4-LANE DIVIDED WITH RIGHT TURN LANE

4 LANE DIVIDED WITH ISLAND

4 LANE DIVIDED WITHOUT ISLAND

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/6/2012 DATE
/S/ Thomas N. [illegible] 894
STATE TRAFFIC ENGINEER SIGN

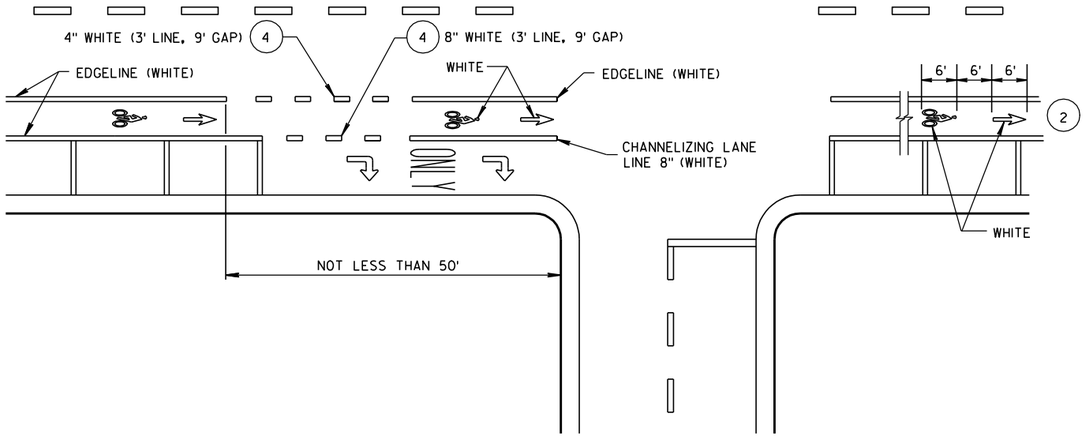
FHWA

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S.D.D. 15 C 29-2b

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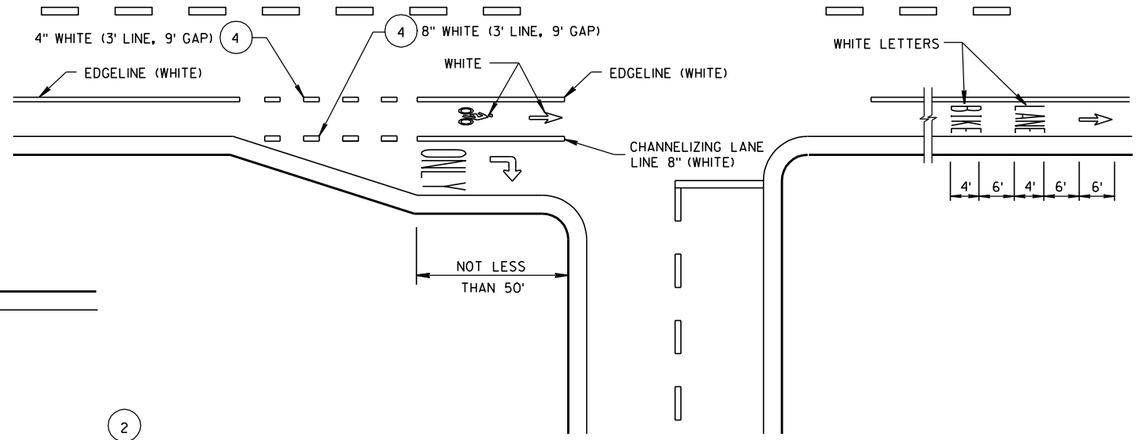
S.D.D. 15 C 29-2b



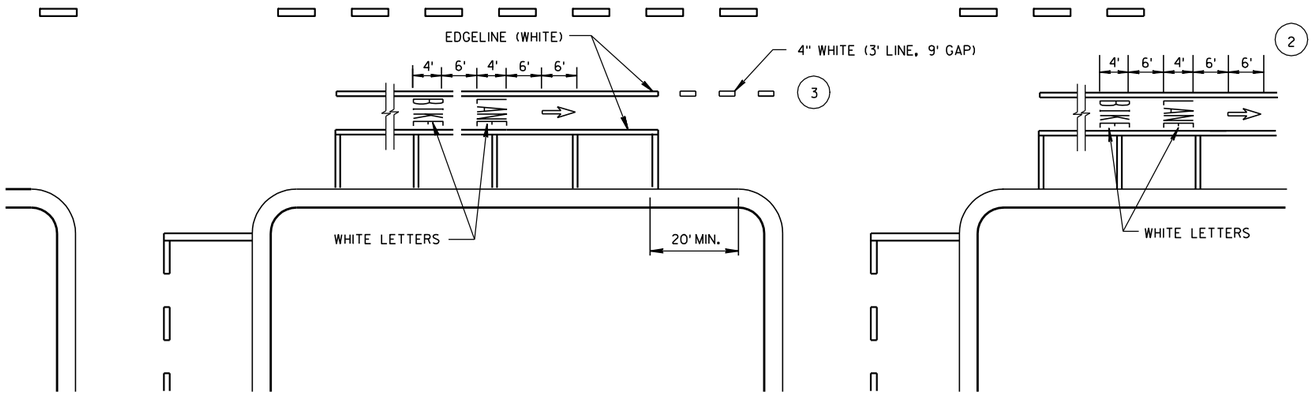
DESIGNATED BICYCLE LANE

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. WHEN SPECIFIED IN THE CONTRACT.



DESIGNATED BICYCLE LANE
NO PARKING, RIGHT TURN LANE



DESIGNATED BICYCLE LANE
WITH PARKING, NO RIGHT TURN LANE

URBAN BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/6/2012 DATE
/S/ Thomas N. [illegible] 895
STATE TRAFFIC ENGINEER SIGN

FHWA

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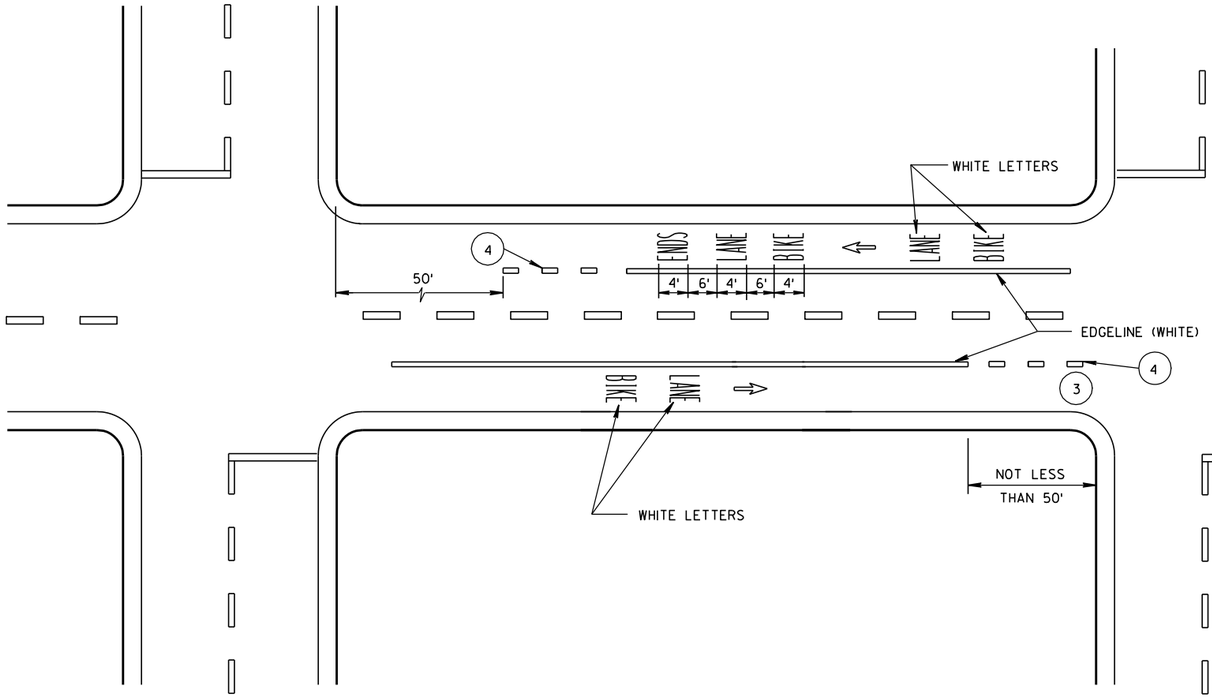
S.D.D. 15 C 29-2c

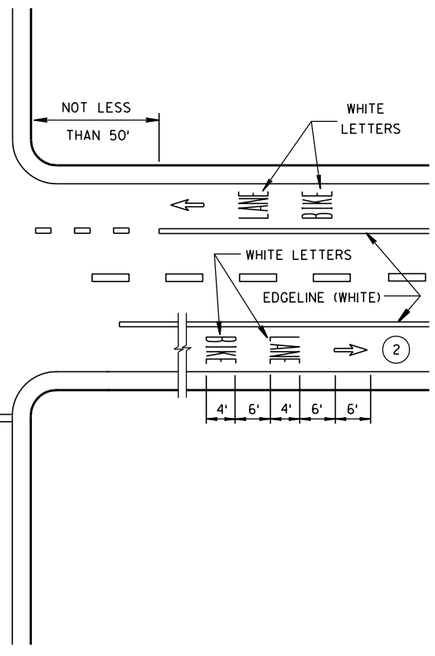
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S.D.D. 15 C 29-2c

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. 3' LINE, 9' GAP - 4" WIDE, WHITE.





DESIGNATED BICYCLE LANE
NO PARKING

URBAN BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2/6/2012 DATE

/S/ Thomas N. [illegible] STATE TRAFFIC ENGINEER

FHWA

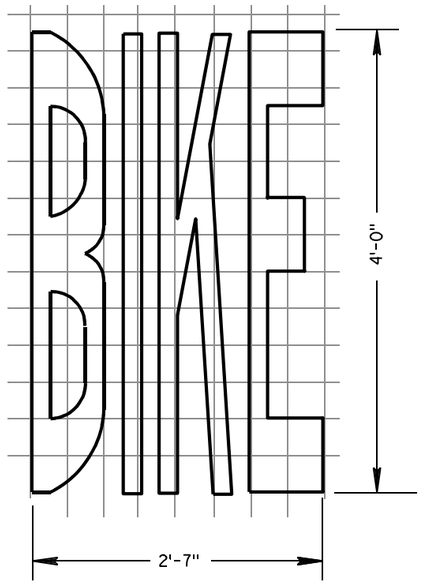
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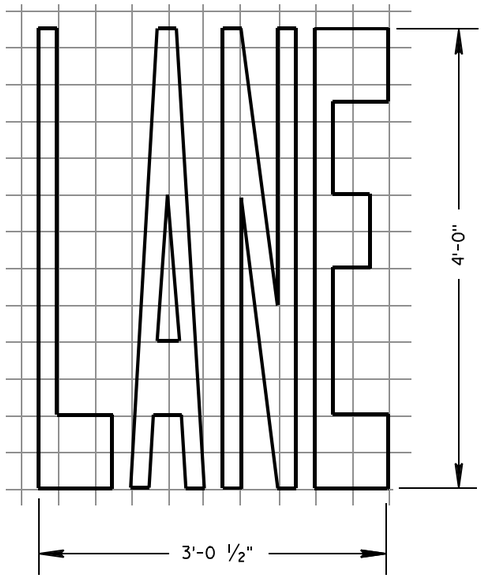
S.D.D. 15 C 29-2d

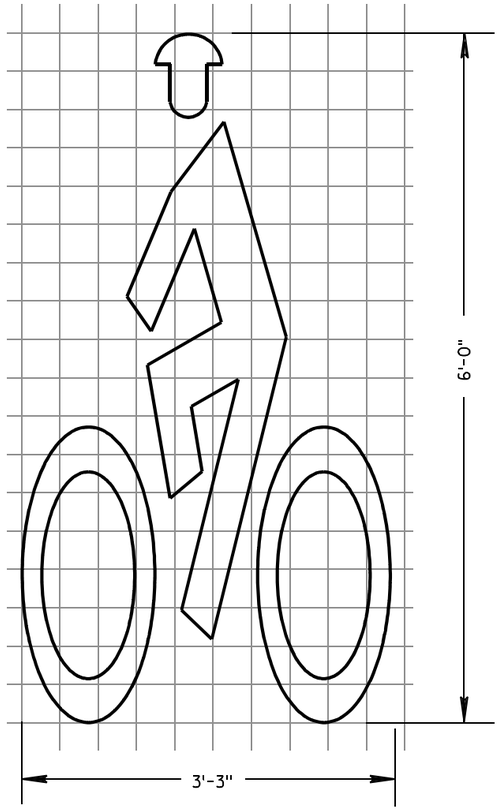
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

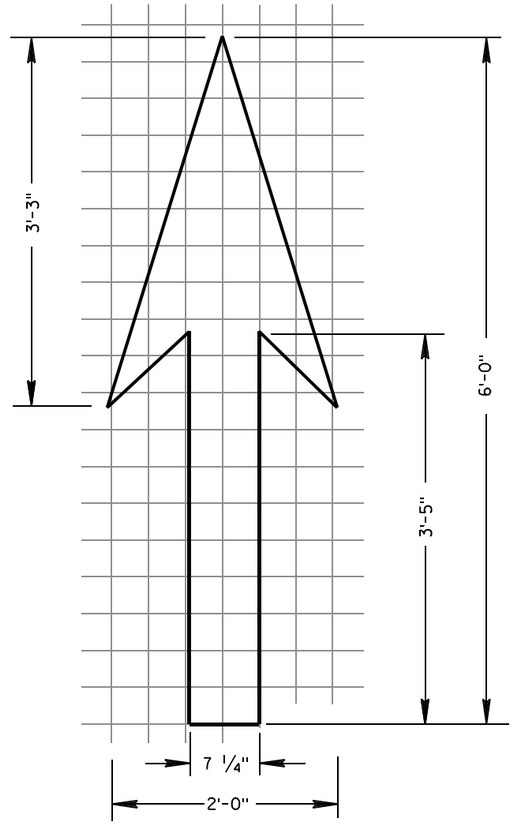
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



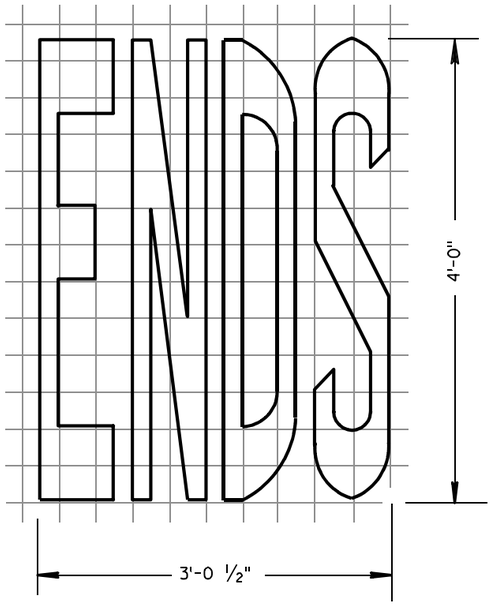




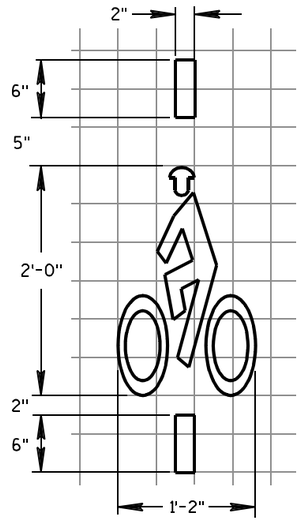
BIKE LANE SYMBOL



BIKE LANE ARROW



BIKE LANE WORDS



BICYCLE DETECTOR PAVEMENT MARKING

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2-6-2012 DATE

/S/ Thomas N. N[illegible] STATE TRAFFIC ENGINEER

FHWA

897

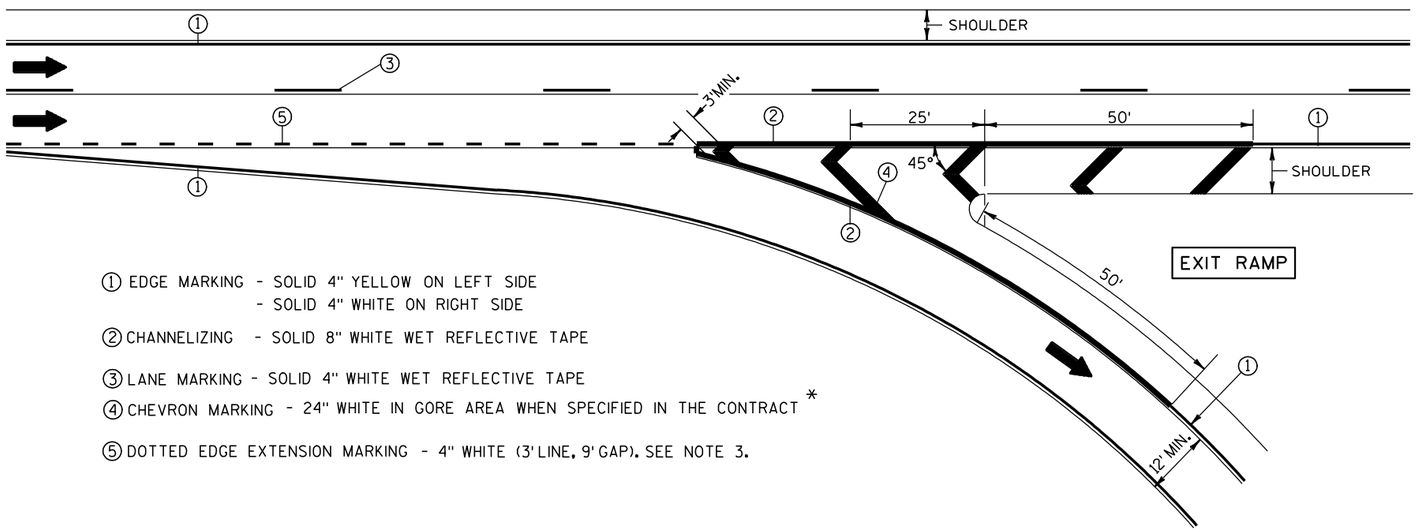
GN

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S.D.D. 15 C 29-2e

6

S.D.D. 15 C 29-2e



① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE

② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE

③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE

④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *

⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 9' GAP). SEE NOTE 3.

NOTES:

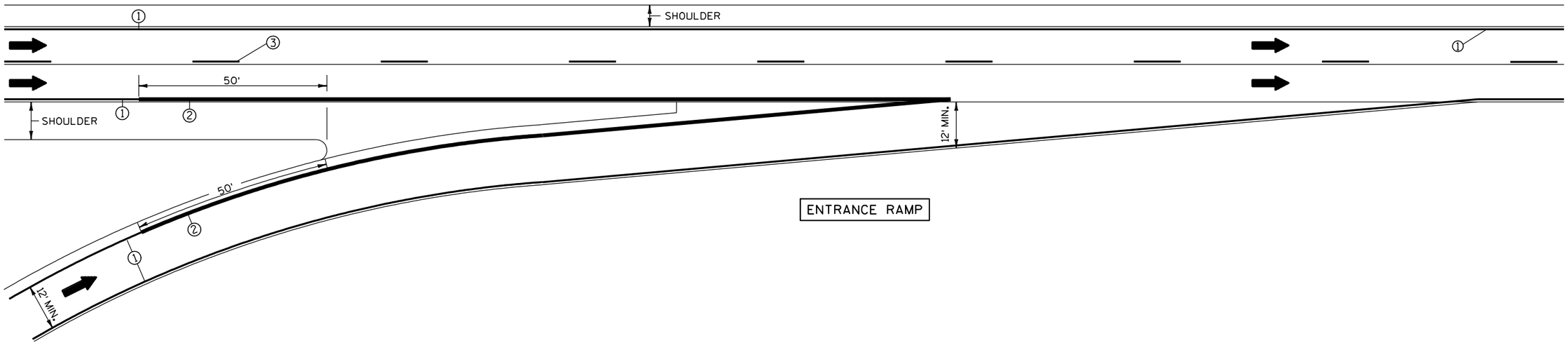
1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.

3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

4. RETRACE EXISTING DIAGONAL MARKINGS.

* REFER TO DESIGN NOTES.



6

S.D.D. 15 C 31-1a

PAVEMENT MARKING
(RAMPS AND GORES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 31-1a

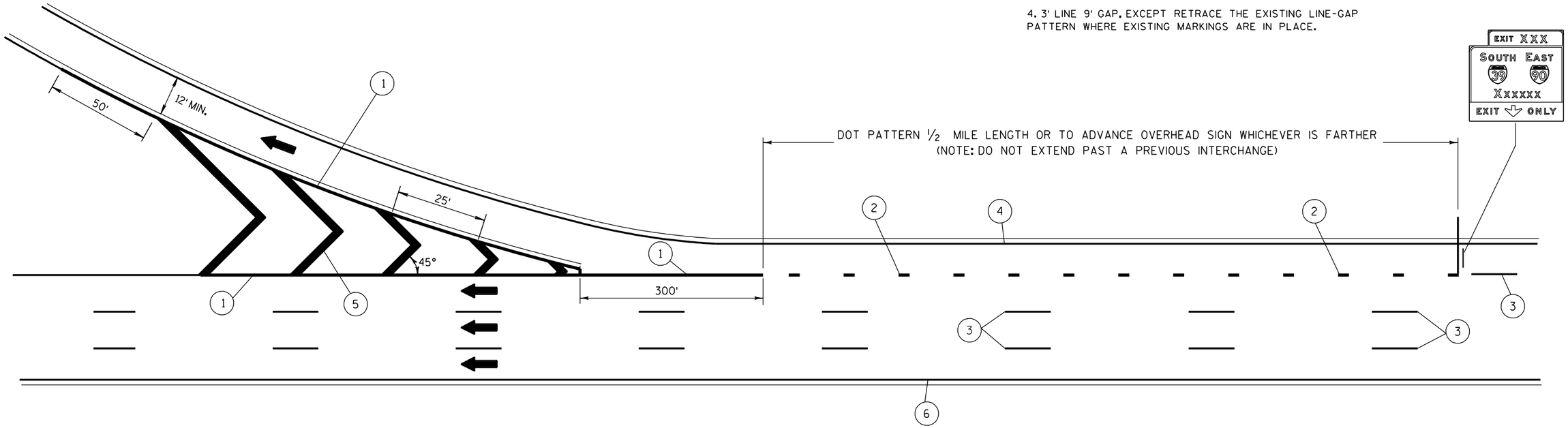
NOTES:

1. SEE STANDARD DETAIL DRAWING 15 C 10 FOR SPRAYED OR NON WET REFLECTIVE LINE SEGMENTS.

2. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

3. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.

4. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.



1. CHANNELIZING - SOLID 8" WHITE WET RELECTIVE TAPE
2. 3' LINE, 9' GAP SOLID 8" WHITE WET REFLECTIVE TAPE. SEE NOTE 4.
3. SOLID 4" WHITE WET REFLECTIVE TAPE
4. 4" WHITE EDGELINE
5. CHEVRON MARKING - 24" WHITE WHEN SPECIFIED IN THE CONTRACT
6. 4" YELLOW EDGELINE

LANE DROP
PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

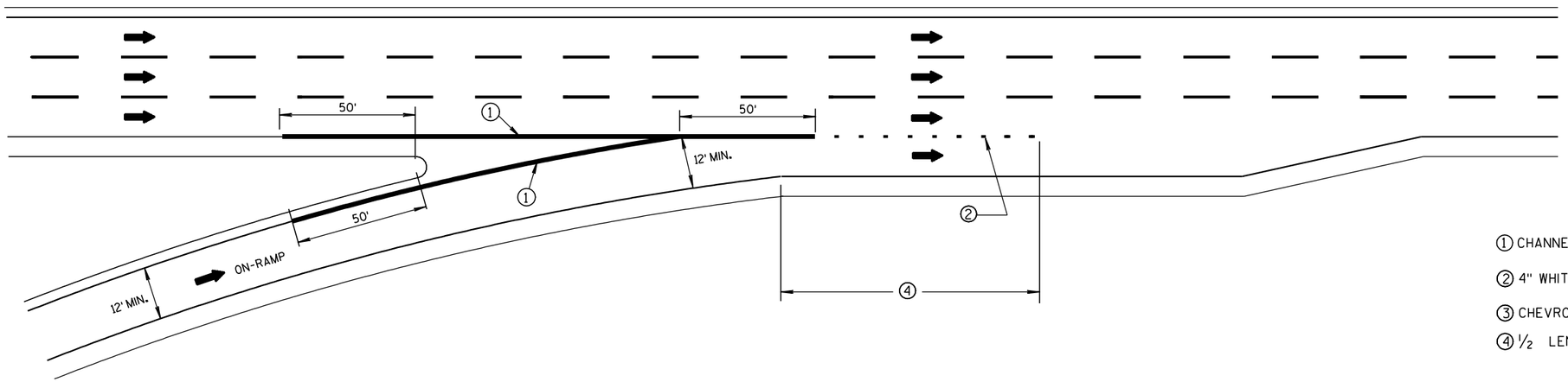
S.D.D. 15 C 31-1b

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S.D.D. 15 C 31-1b

NOTES:

1. AHEAD ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.
3. RETRACE EXISTING DIAGONAL MARKINGS.



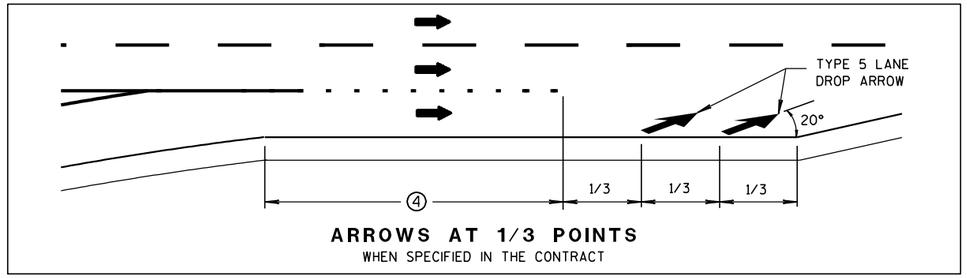
① CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE IN GORE AREA.

② 4" WHITE (3' LINE, 9' GAP).

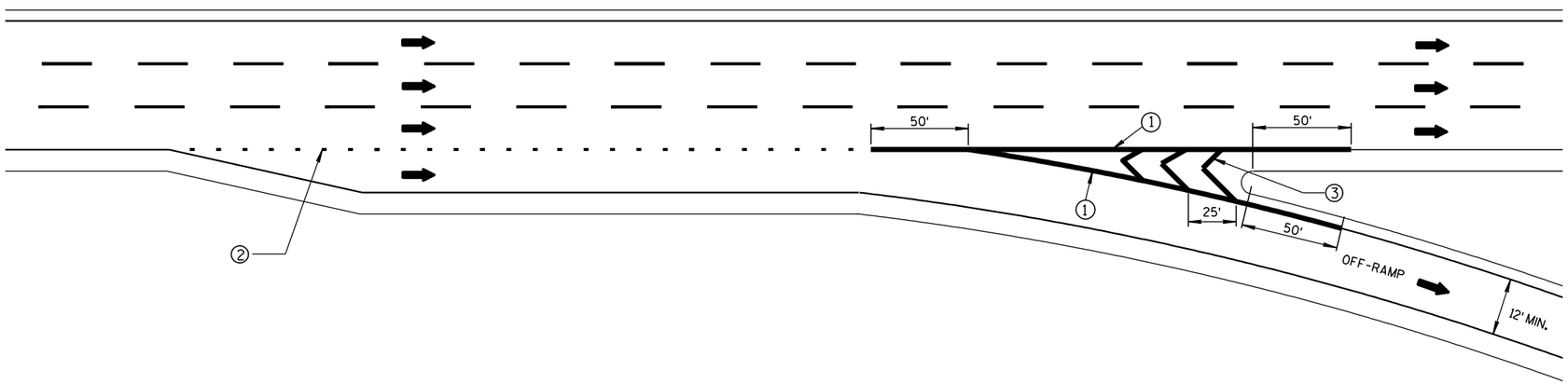
③ CHEVRON MARKING - 24" WHITE WHEN SPECIFIED IN THE CONTRACT.

④ ½ LENGTH OF FULL WIDTH ACCELERATION LANE.

SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE-RAMP



ARROWS AT 1/3 POINTS
WHEN SPECIFIED IN THE CONTRACT



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT-RAMP

PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/23/2011 DATE
/S/ Thomas N. Nothem
STATE TRAFFIC ENGINE 900 SIGN
FHWA

6
S.D.D. 15 C 31-1d

LEGEND

- POST WITH ATTACHED SIGN
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- ARROW BOARD
- REMOVING PAVEMENT MARKING
- TEMPORARY PRECAST CONCRETE BARRIER
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES :

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

(1) CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

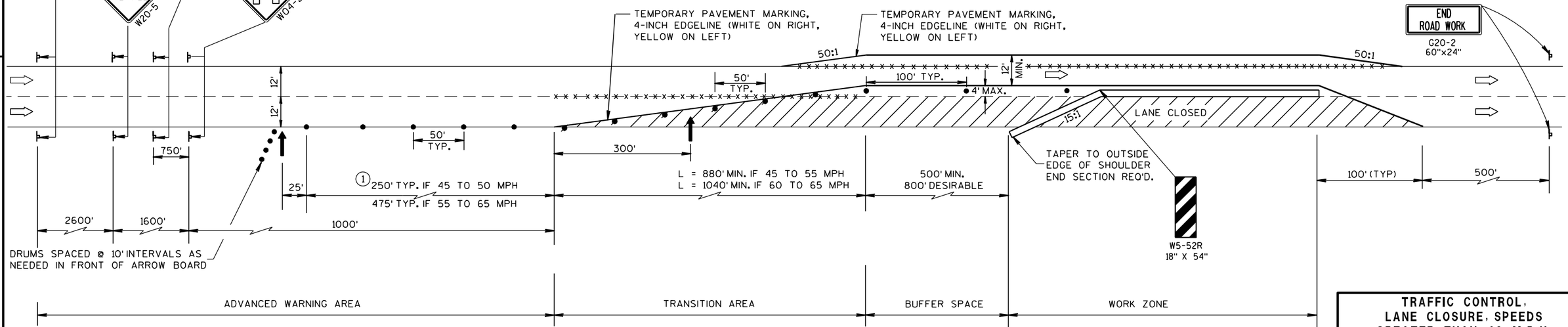
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

NO EQUIPMENT OR MATERIAL SHALL BE LOCATED WITHIN THE WORK ZONE OTHER THAN BEHIND THE PRECAST CONCRETE BARRIER.





TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-94
DATE

/S/ Chester J. [illegible]
DIRECTOR, OFFICE OF [illegible]

FHWA

6

S.D.D. 15 D 3-1

6

S.D.D. 15 D 3-1

LEGEND

- POST WITH ATTACHED SIGN
- POST WITH ATTACHED SIGN IN DRUM
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- ARROW BOARD
- 8' TYPE III BARRICADE
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC

GENERAL NOTES :

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

(1) CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

GENERAL NOTES CONTINUED:

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

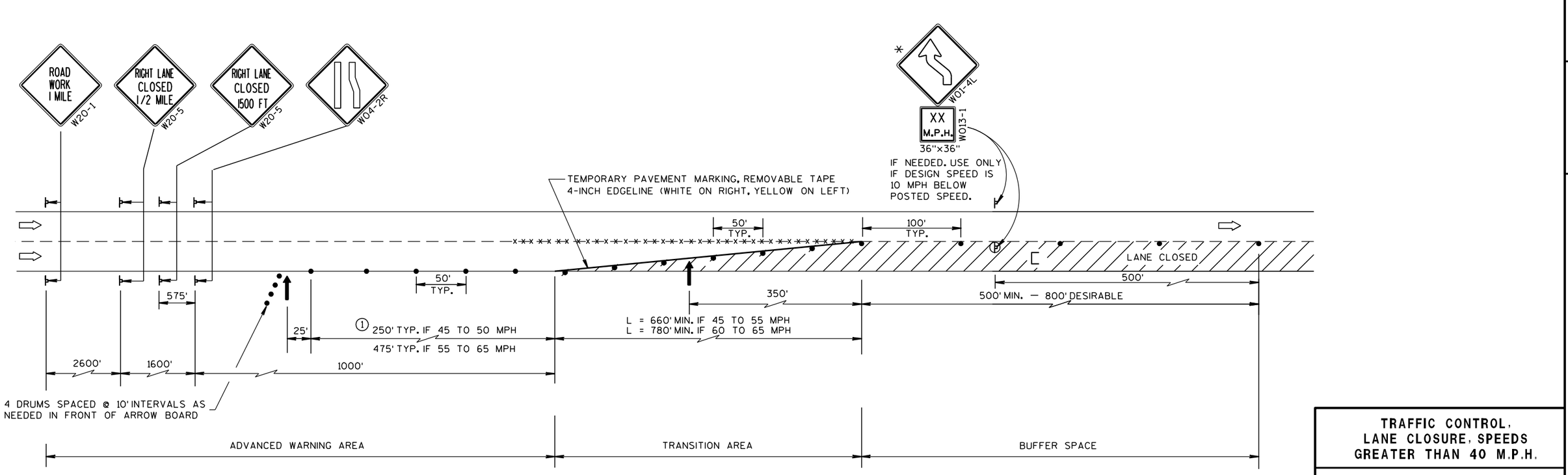
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

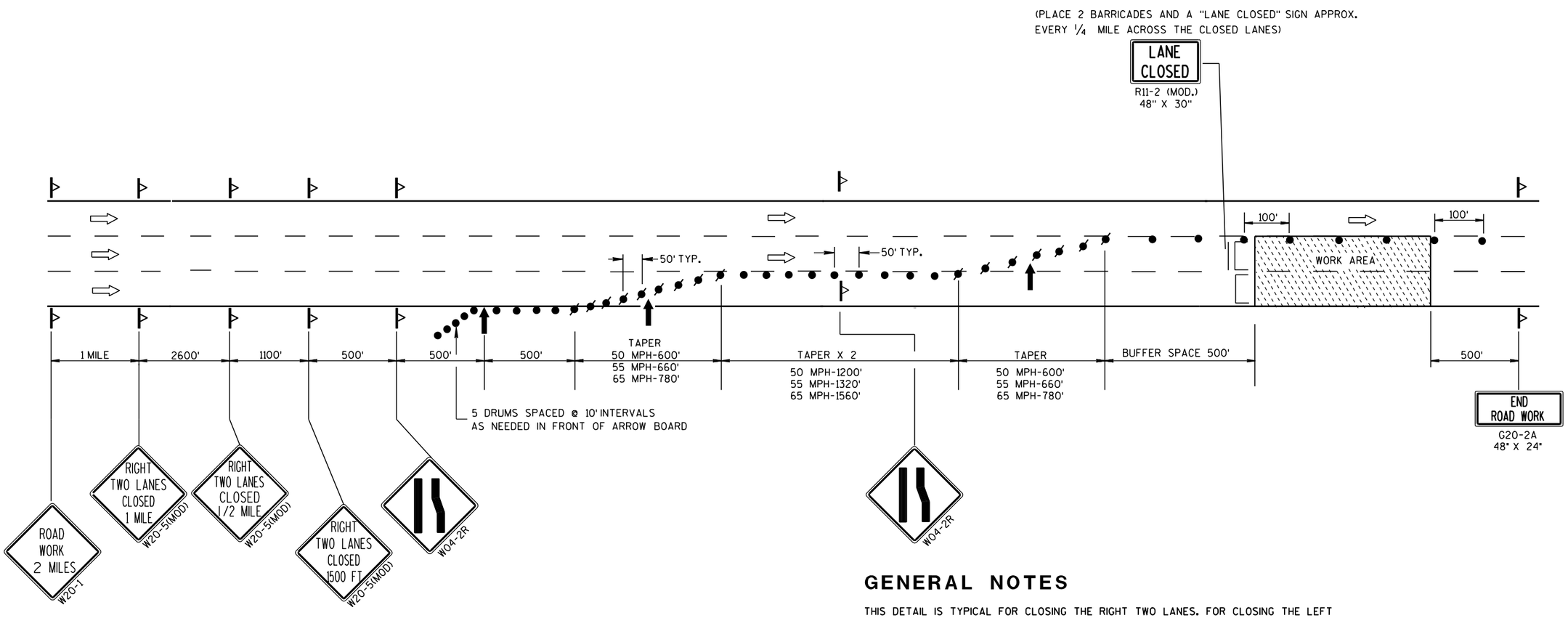
APPROVED
8-7-95 DATE
/S/ Chester J. [illegible]
DIRECTOR, OFFICE O 902 C
FHWA

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S.D.D. 15 D 12-2

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S.D.D. 15 D 12-2



LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY BURN)
- SIGN ON POST OR PORTABLE SUPPORT
- FLASHING ARROW BOARD
- TYPE III BARRICADE (8' EQUIVALENT) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES. FOR CLOSING THE LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

WHEN A RAMP OR SIDE ROAD INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/2000
DATE

/S/ Chester J. [illegible]
CHIEF SIGNS AND MAR 903 INEER

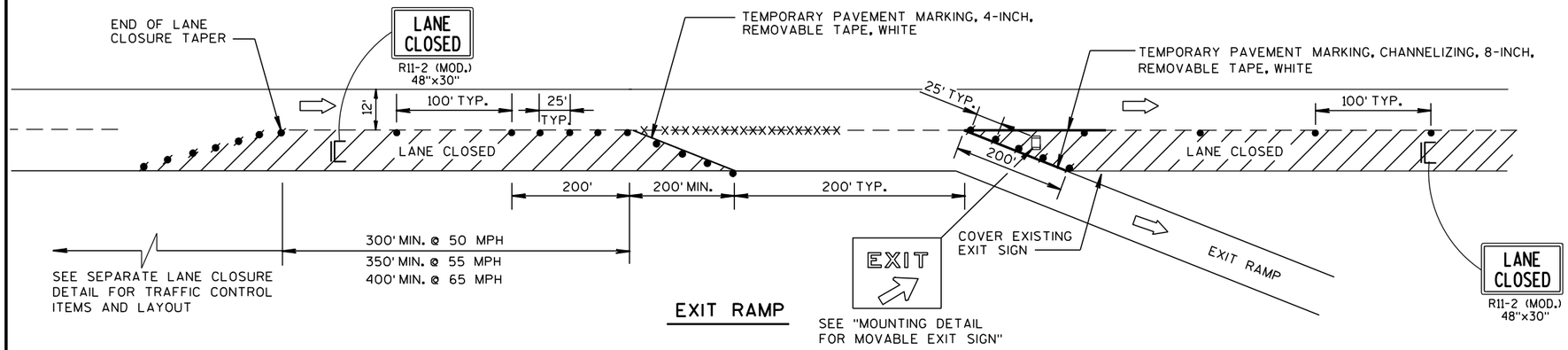
FHWA

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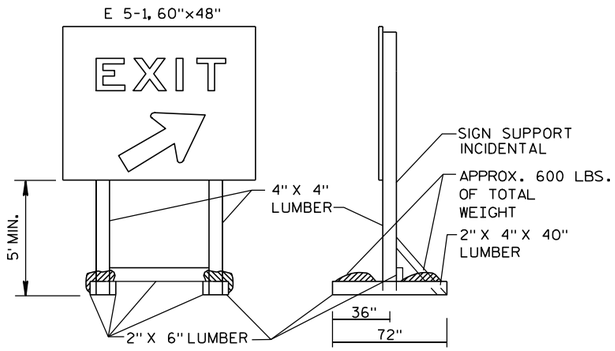
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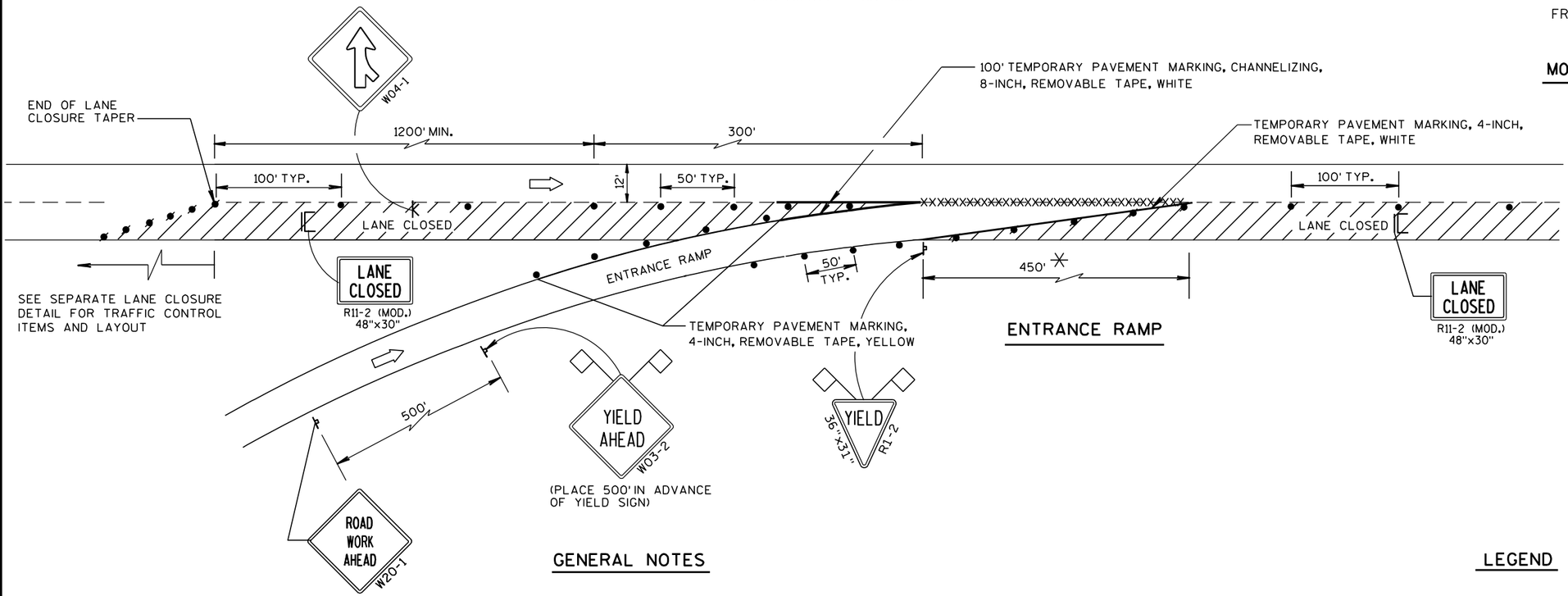


EXIT RAMP



NOTE: ALL LUMBER DIMENSIONS ARE NOMINAL

MOUNTING DETAIL FOR MOVABLE EXIT SIGN



ENTRANCE RAMP

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2 (MOD.) "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

✳ LENGTH OF OPENING MAY BE REDUCED TO 150 FEET DURING STAGING OF WORK IN IMMEDIATE AREA OF RAMP TAPER.

LEGEND

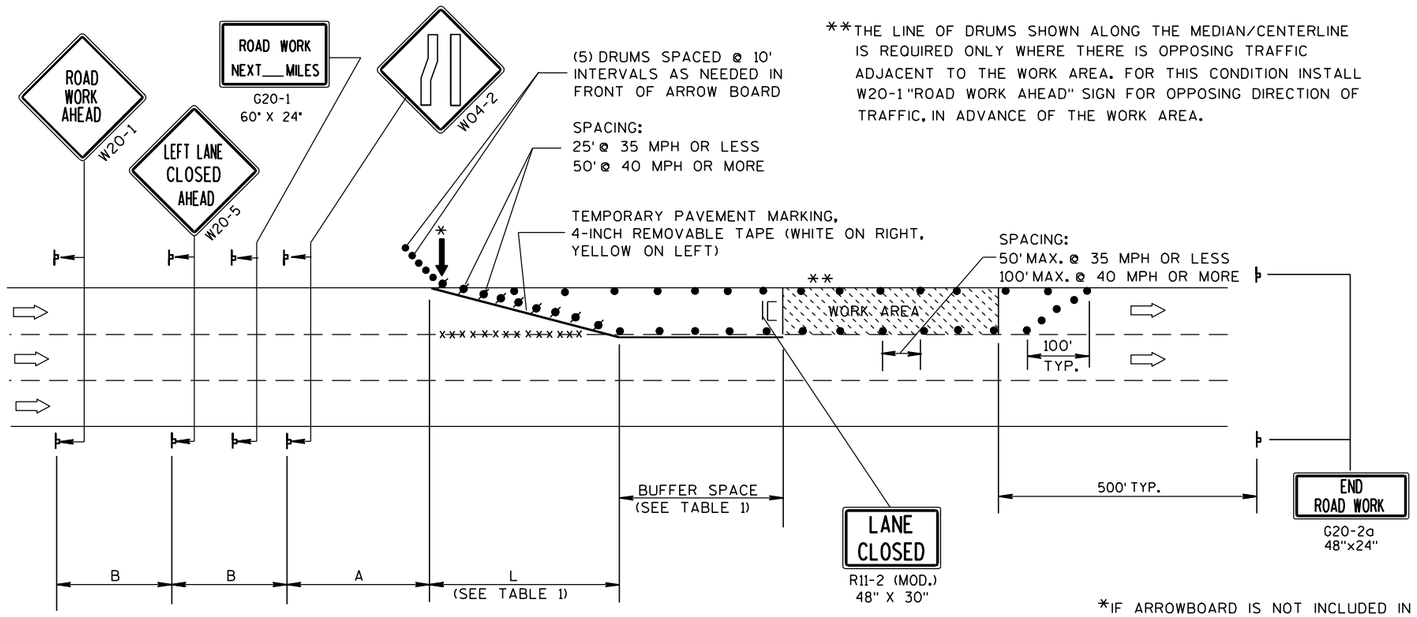
- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT
- TRAFFIC CONTROL, DRUM
- TRAFFIC CONTROL, DRUM WITH WARNING LIGHT, TYPE C (STEADY-BURN)
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE (8' EQUIVALENT) WITH SIGN
- FLAGS, 16"x16" MIN., ORANGE
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/24/2000 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARKINGS ENGINEER
FHWA

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S.D.D. 15 D 15-1



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

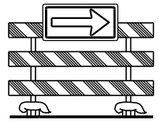


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- POST MOUNTED SIGN
- ARROW BOARD
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- xxxx REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

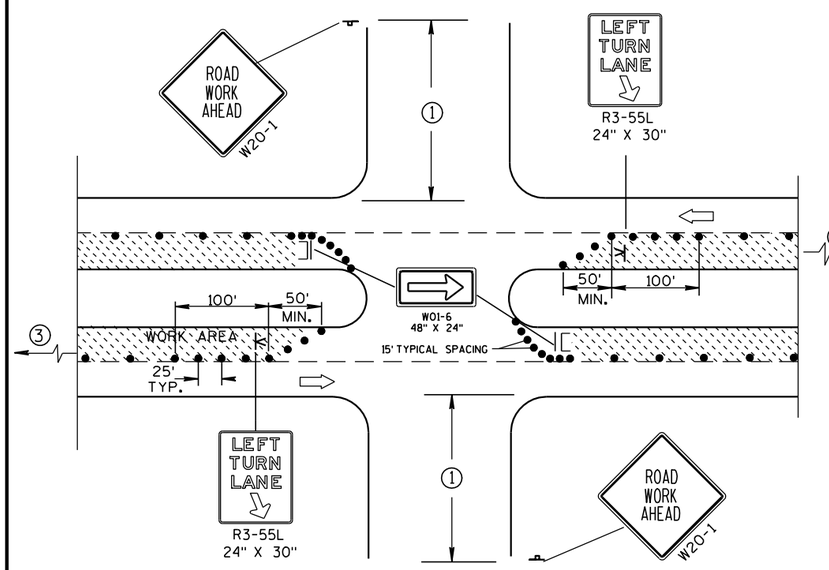
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 DATE
/S/ Chester J. [illegible] 905
CHIEF SIGNS AND MARKINGS ENGINEER
FHWA

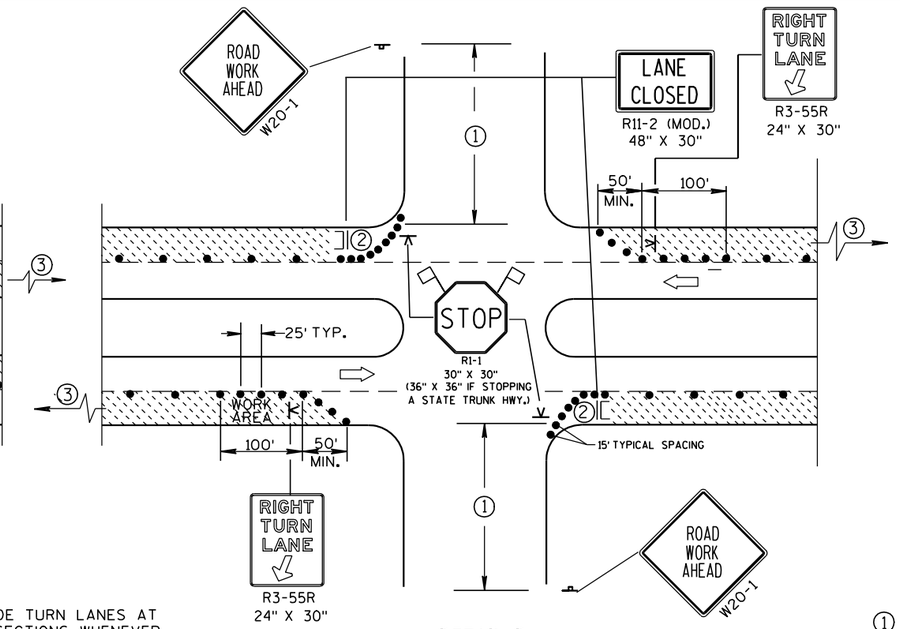
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S.D.D. 15 D 20-1



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

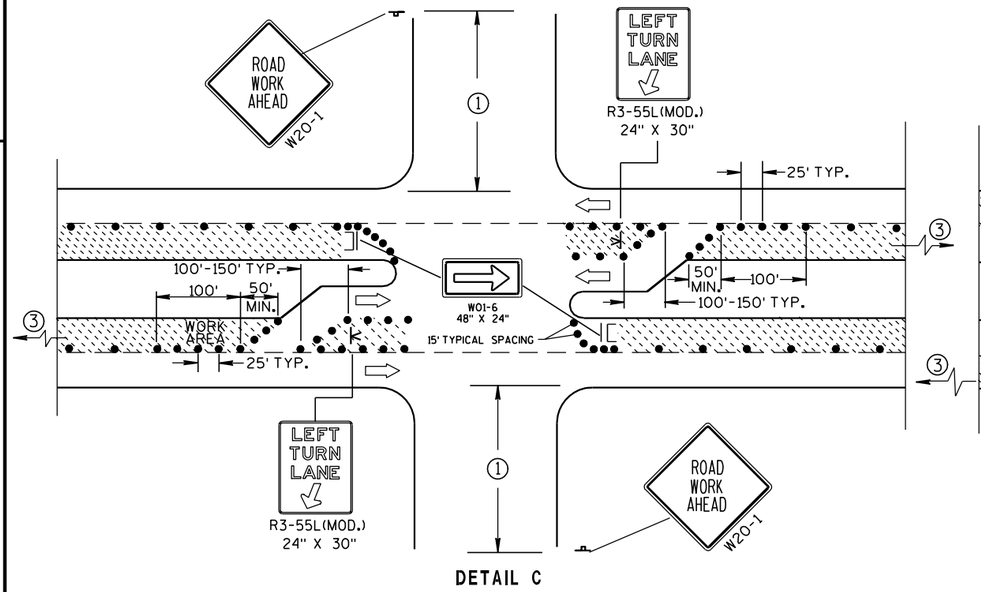
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

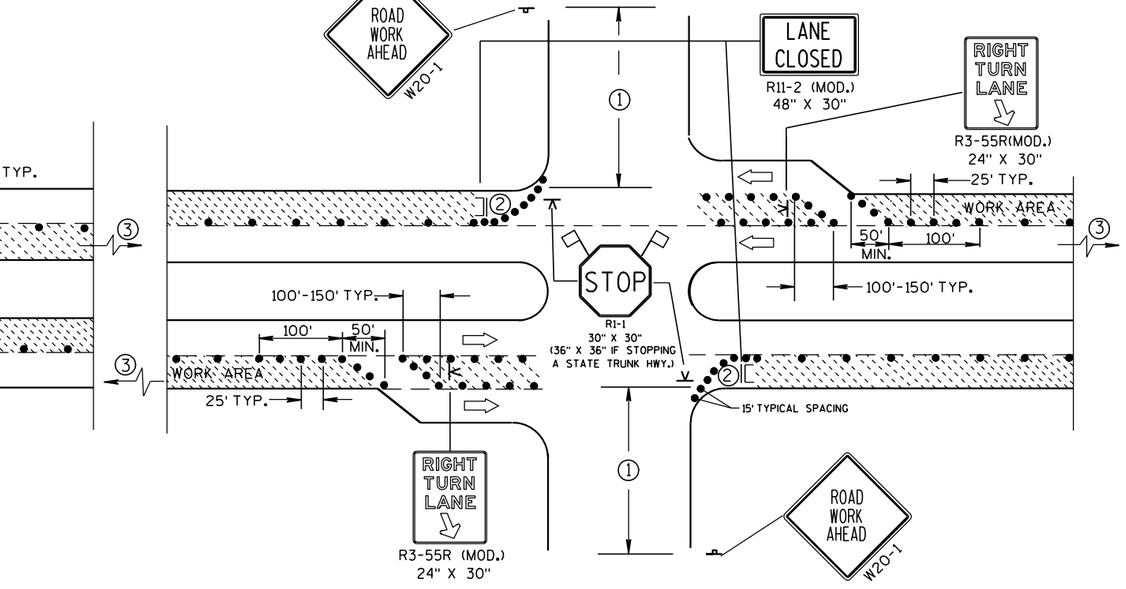
② ALSO USE BARRICADE AND 15' TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- DRUM
- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHT, TYPE A (FLASHING) WITH SIGN
- DIRECTION OF TRAFFIC FLOW
- FLAGS, 16" X 16" MIN., ORANGE

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00 — DATE

/S/ Chester J. Spang — CHIEF SIGNS AND MARKING ENGINEER

FHWA

6

S.D.D. 15 D 21-1

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S.D.D. 15 D 21-1

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

L = $\frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT
- ARROW BOARD
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- xxxx REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES. FOR CLOSING THE LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

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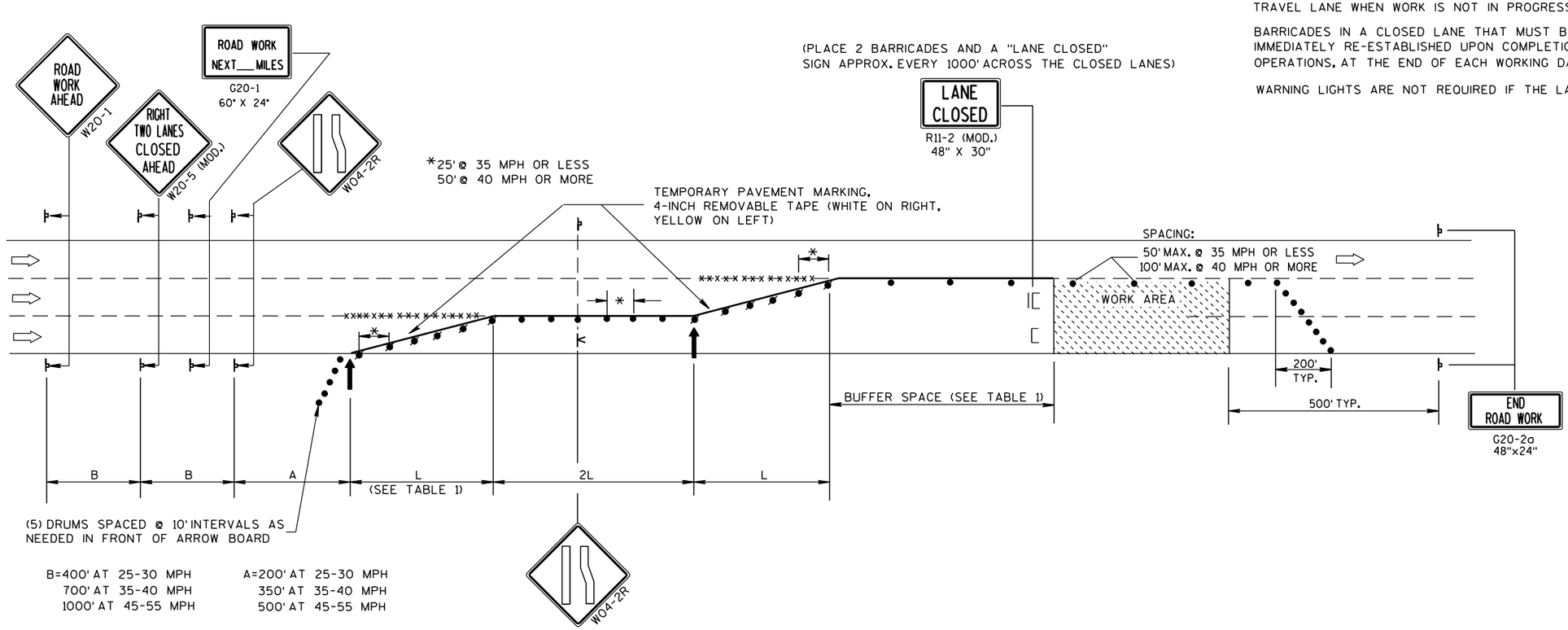
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WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO LOCATE THE ARROWBOARD AS SHOWN, PLACE THE ARROWBOARD IN THE LANE CLOSURE TAPER AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE TAPER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
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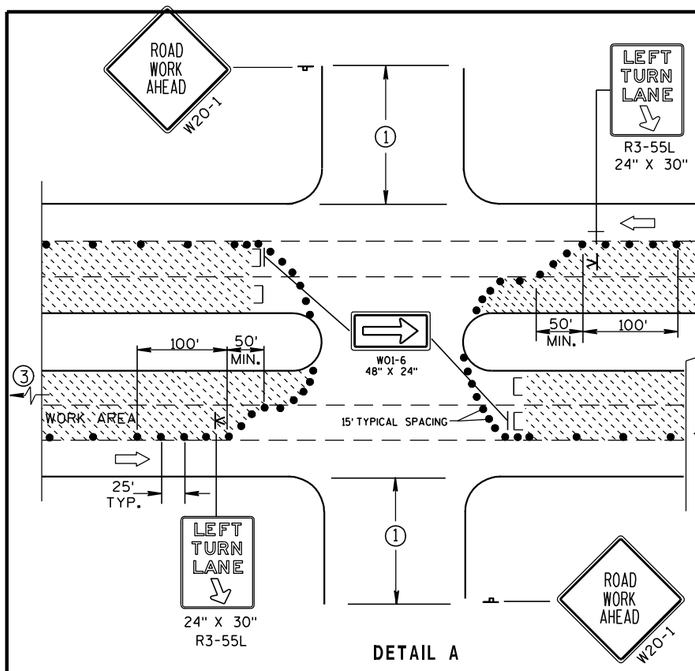
TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 DATE
/S/ Cester J. [illegible] CHIEF SIGNS AND MARKINGS ENGINEER
FHWA

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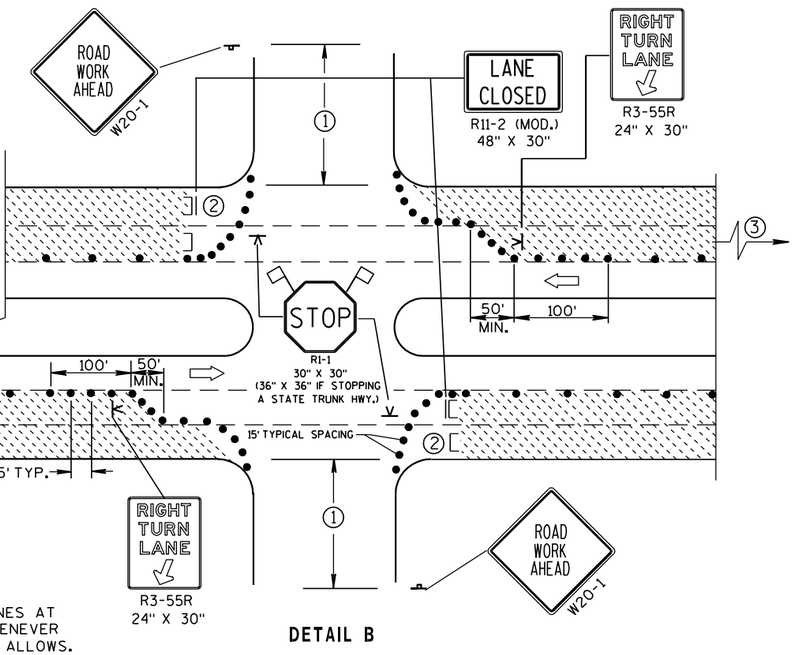
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DETAIL A

FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT TWO LANES CLOSED AT INTERSECTION

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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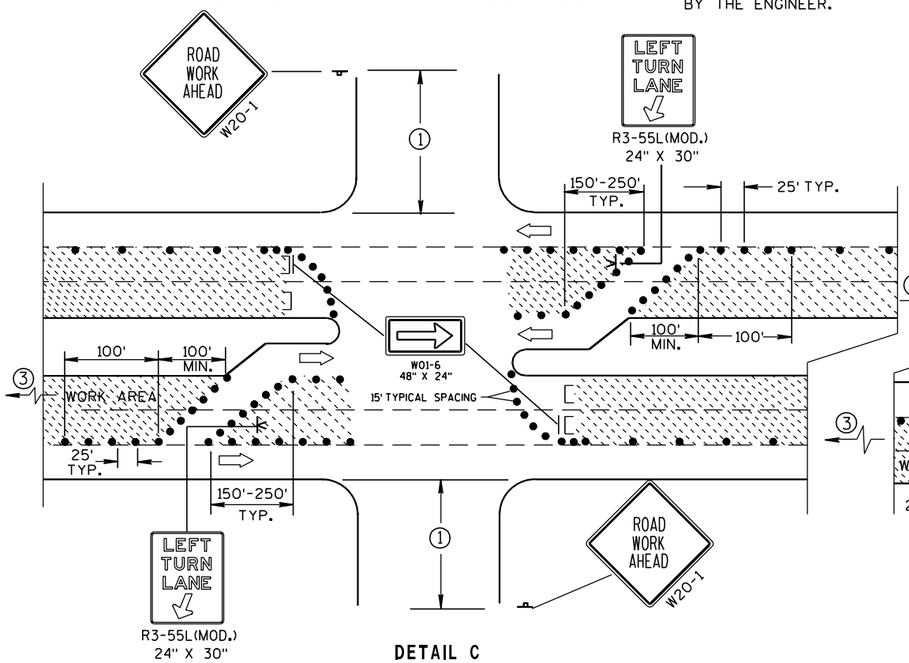
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BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

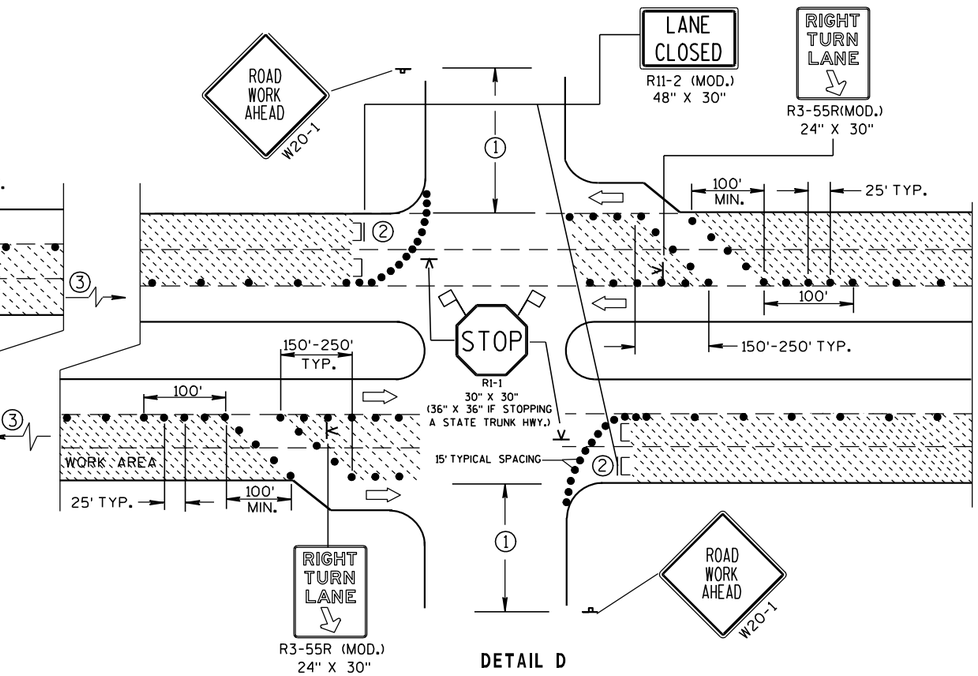
(2) ALSO USE BARRICADES AND 15' TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT TWO LANES CLOSED AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- DRUM
- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHT, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- FLAGS, 16" X 16" MIN., ORANGE

TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARKINGS ENGINEER
FHWA

6

S.D.D. 15 D 23-1

SYMBOLS

- TRAFFIC CONTROL DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW
- ARROW BOARD IN CAUTION MODE

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

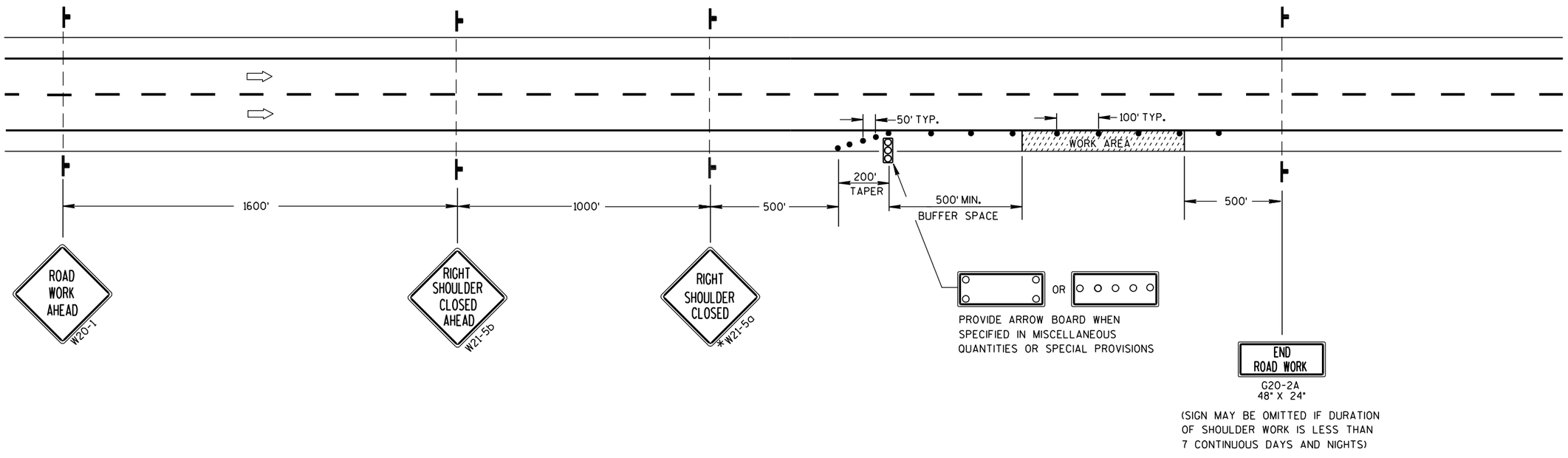
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00
DATE

/S/ Chester J Spaan
CHIEF SIGNS AND MARKINGS ENGINEER

FHWA

909

6

S.D.D. 15 D 27-1

6

S.D.D. 15 D 27-1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

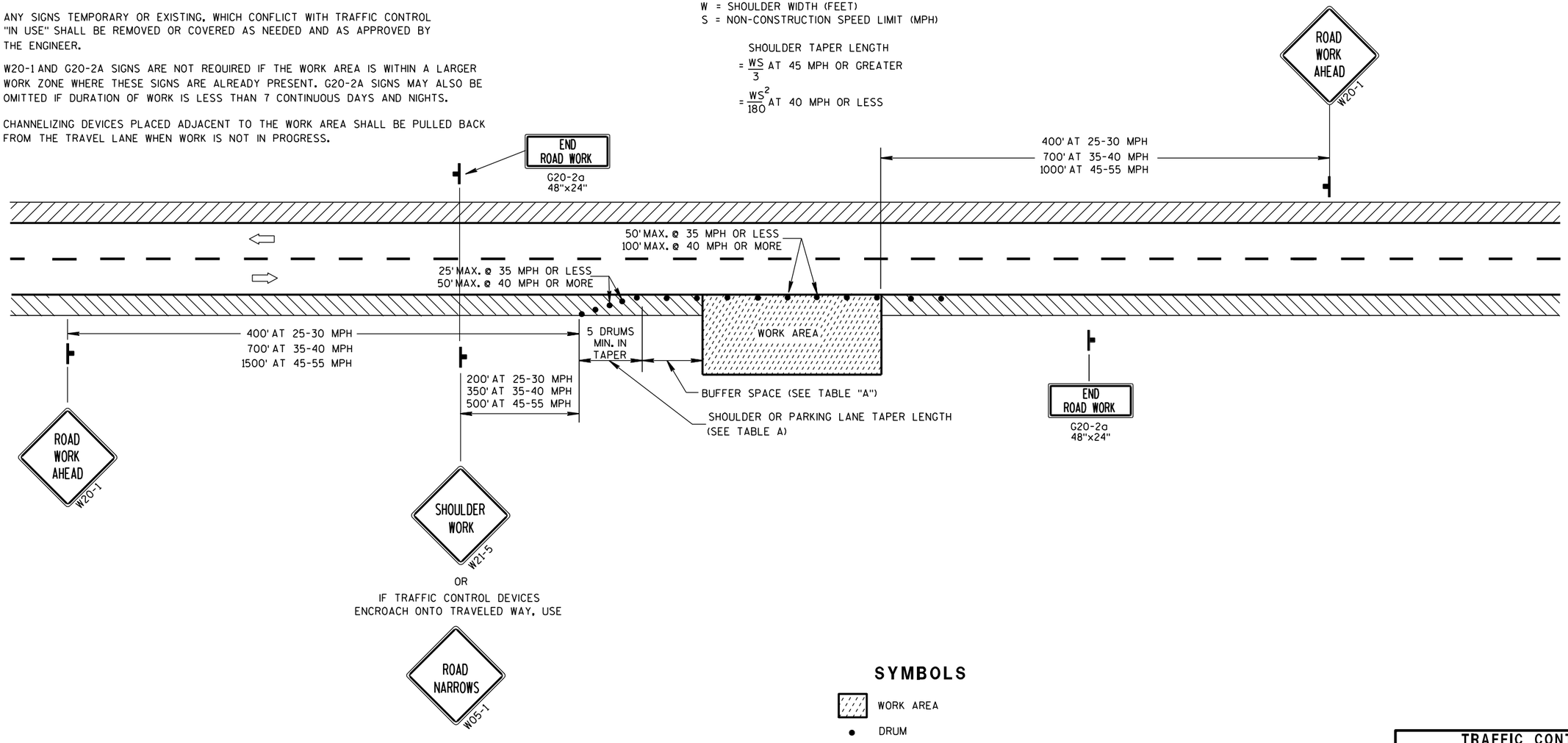
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
$= \frac{WS}{3}$ AT 45 MPH OR GREATER
$= \frac{WS^2}{180}$ AT 40 MPH OR LESS



SYMBOLS

- WORK AREA
- DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW

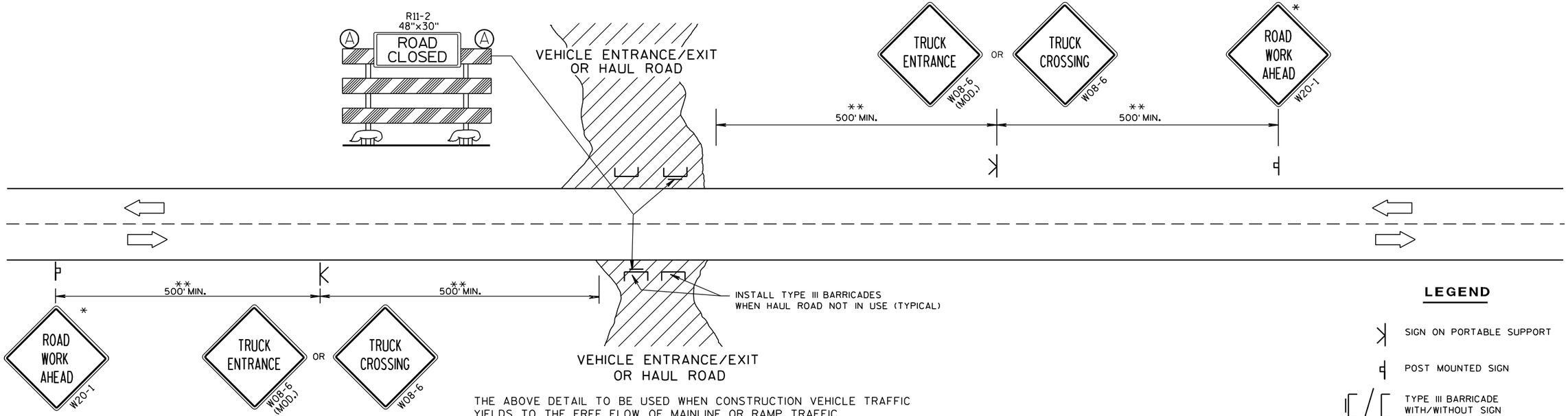
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible] ENGINEER
FHWA

6

S.D.D. 15 D 28-1



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, DEVICES AND FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.

WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

* THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE **ENTRANCE/EXIT CONDITIONS ARE SEPARATED BY MORE THAN 2 MILES** FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

** 500' SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350'. FOR 25-30 MPH, USE 200'. USE 1000'/1500' FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.

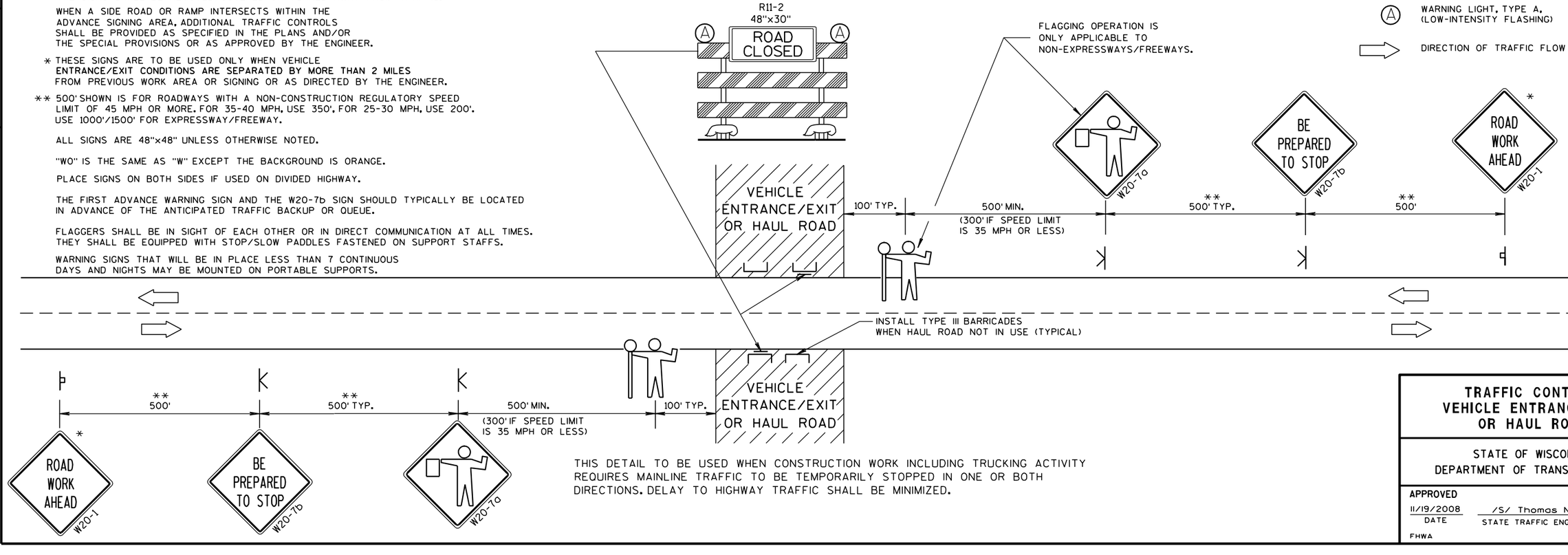
THE FIRST ADVANCE WARNING SIGN AND THE W20-7b SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

LEGEND

- SIGN ON PORTABLE SUPPORT
- POST MOUNTED SIGN
- TYPE III BARRICADE WITH/WITHOUT SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) WARNING LIGHT, TYPE A, (LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC FLOW



THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/19/2008 DATE
/S/ Thomas N. N[illegible] STATE TRAFFIC ENGINEER
911 SIGN
FHWA

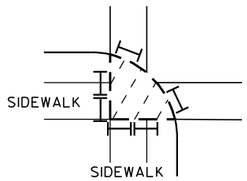
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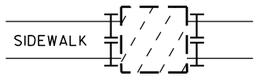
S.D.D. 15 D 29-2

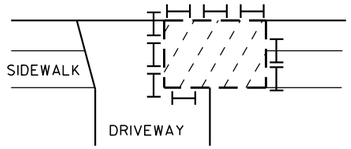
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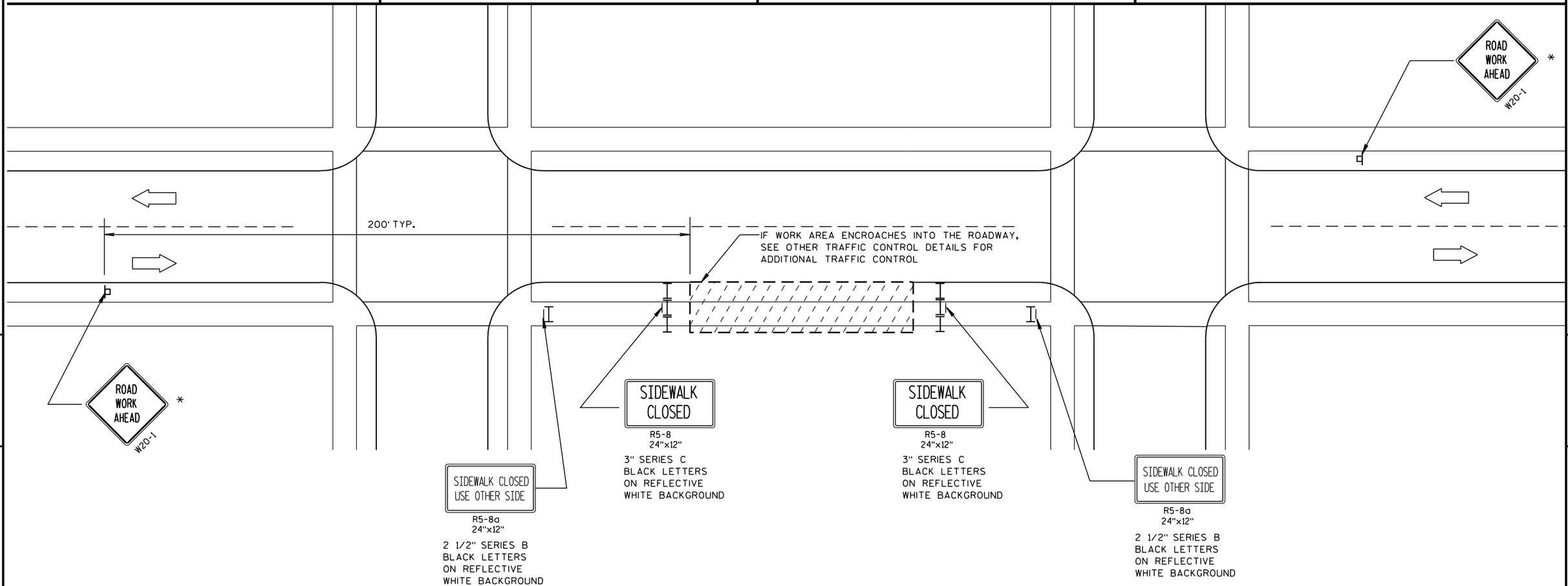
S.D.D. 15 D 29-2

WARNING OF LOCALIZED SIDEWALK WORK AREAS









LEGEND

- POST MOUNTED SIGN
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC FLOW

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

* "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL, SIDEWALK CLOSURE

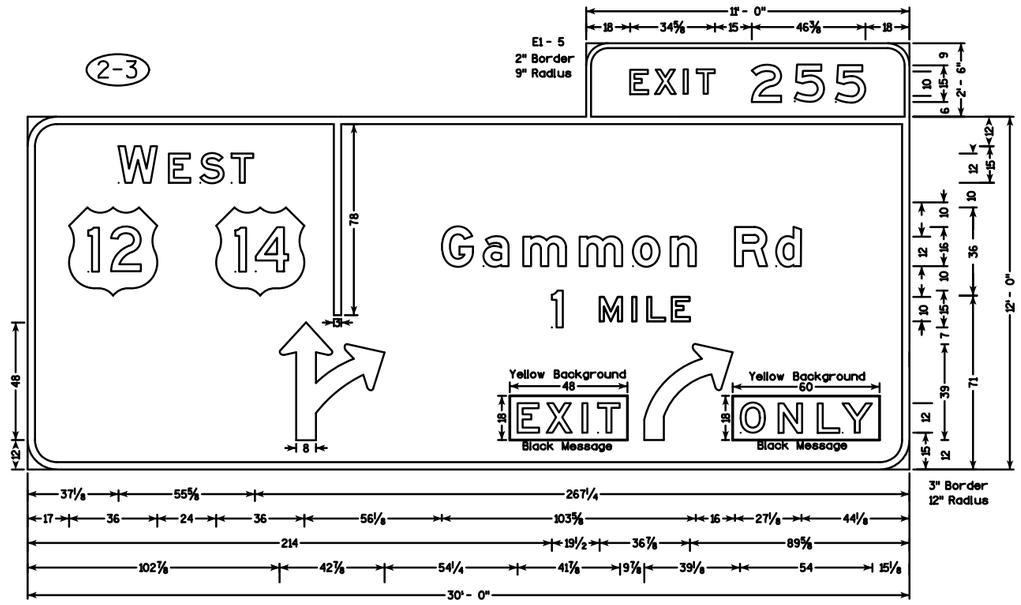
TRAFFIC CONTROL, SIDEWALK CLOSURE

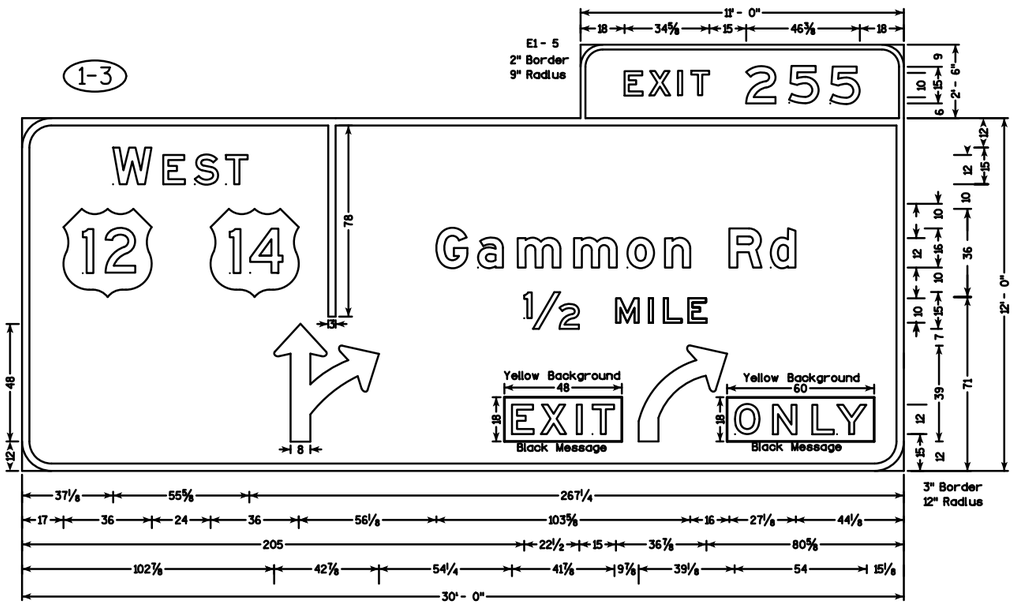
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

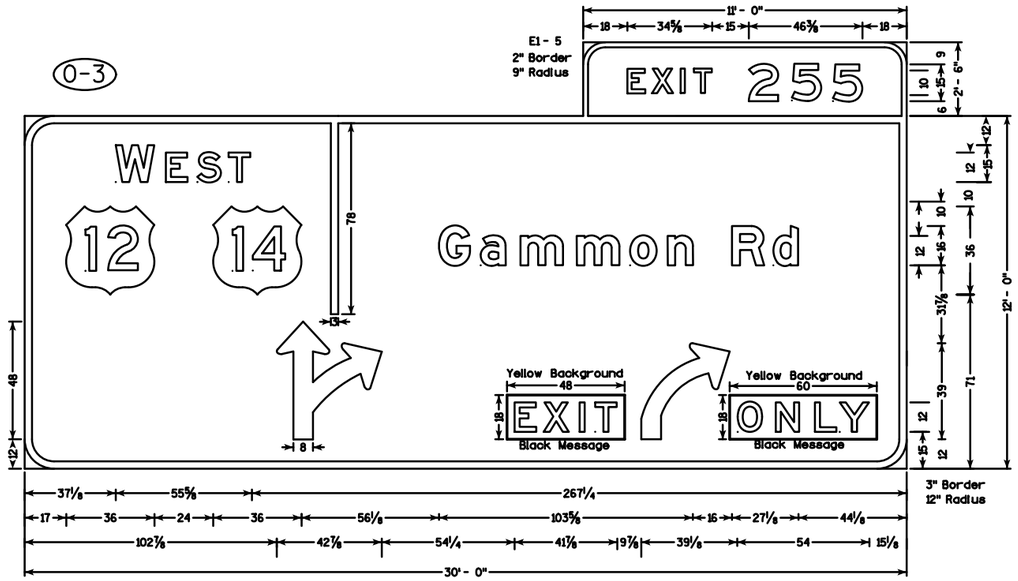
APPROVED
5/23/2000 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible] ENGINEER
FHWA

6

S.D.D. 15 D 30-1







NOTES

1. Sign Is Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green except as noted
   Message - White except as noted
3. Message Series - E Modified

7

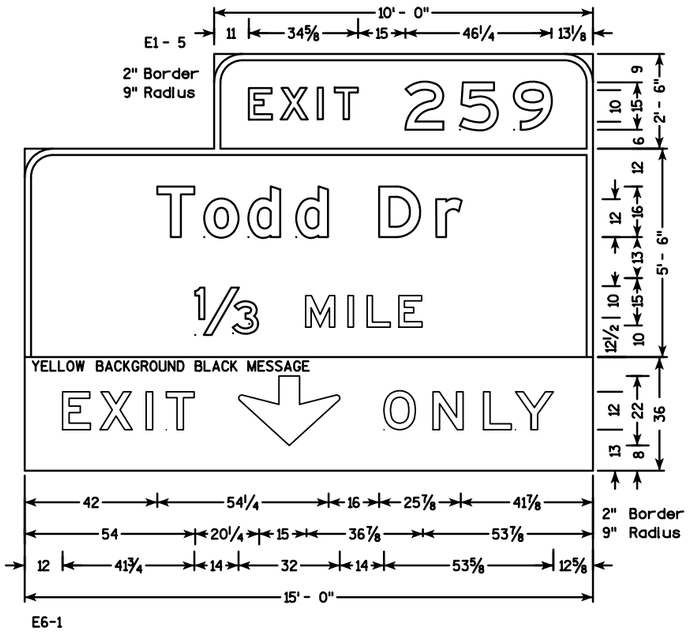
7

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	SIGNING DETAIL	SHEET 913	E

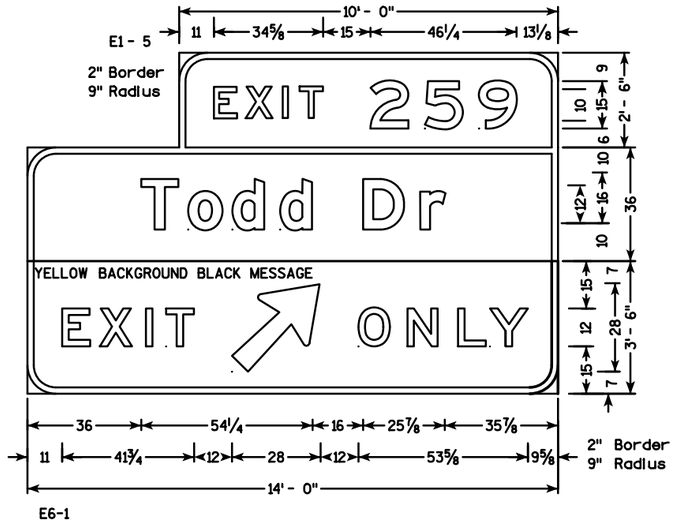
NOTES

1. All Signs are Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green except as Shown
   Message - White except as Shown
3. Message Series - E Modified except all cap Words are series E

6-19

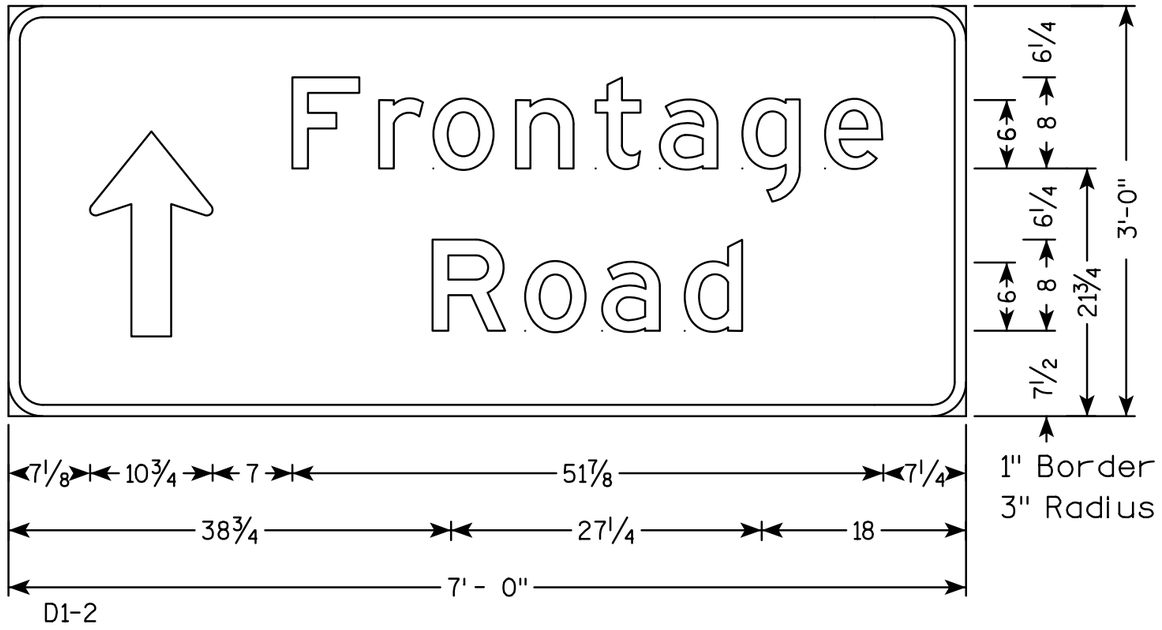


7-3



7

7

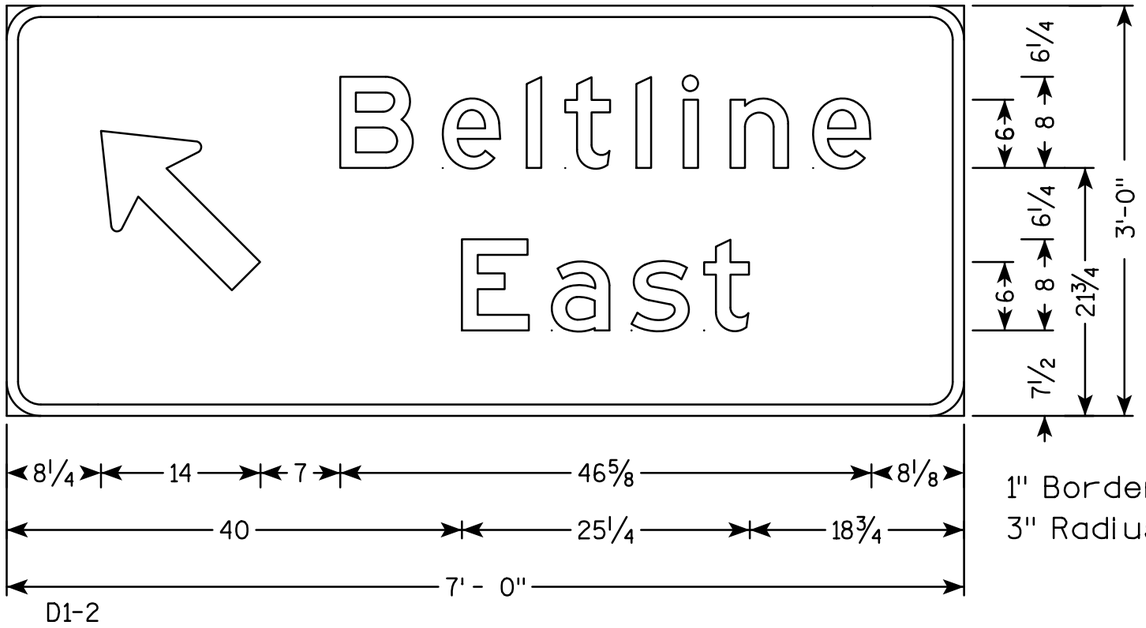


6-4

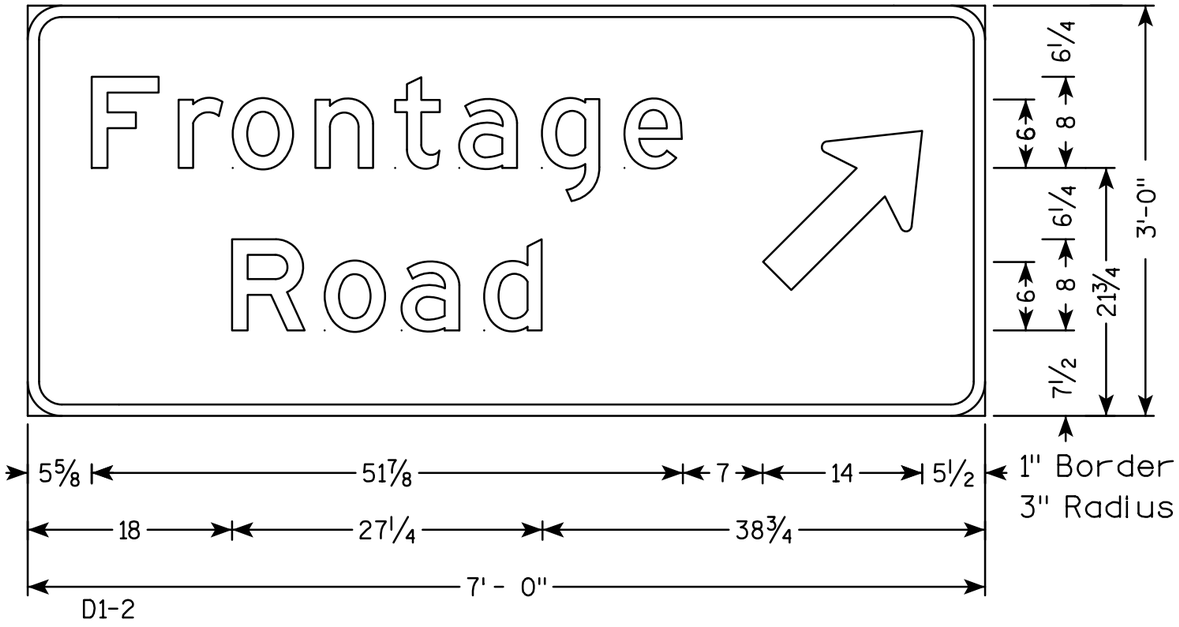
NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E

6-1 6-3



6-21

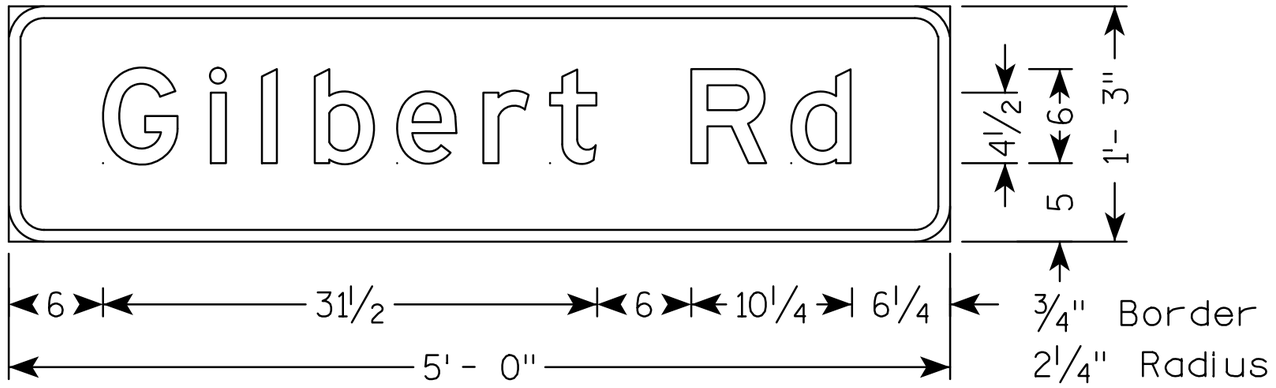


7

7

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	SIGNING DETAIL	SHEET 915	E

34-5

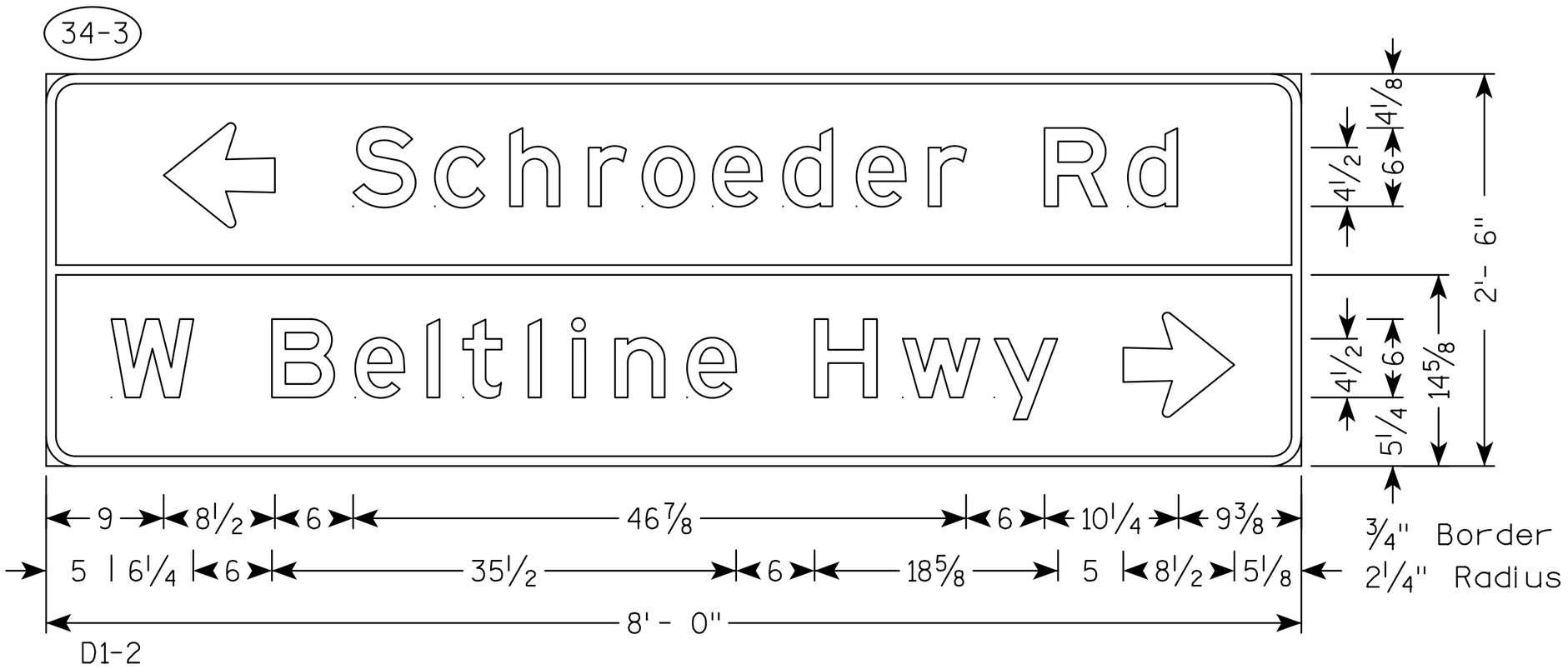


M1-94

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E

34-3



D1-2

7

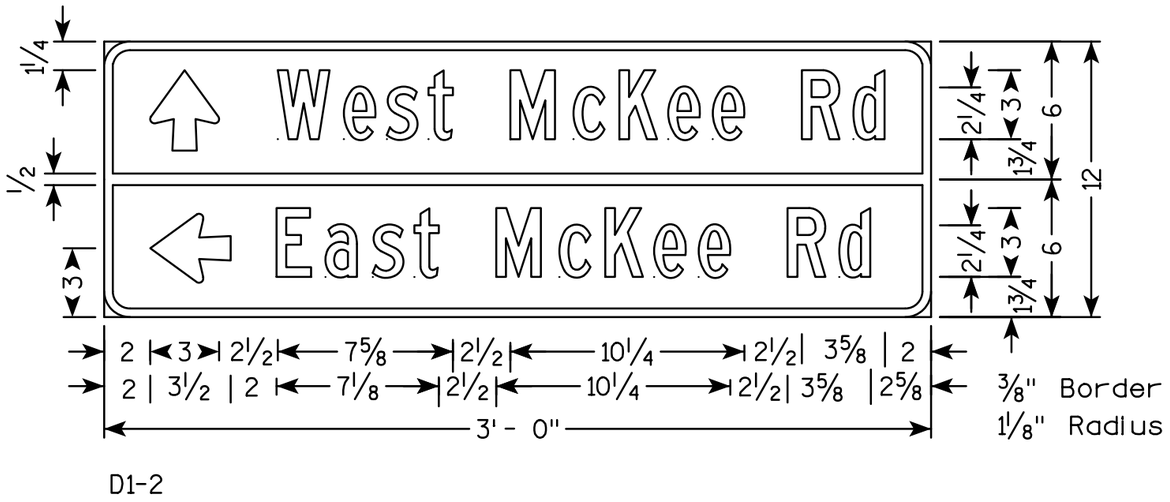
7

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	SIGNING DETAIL	SHEET 916	E

NOTES

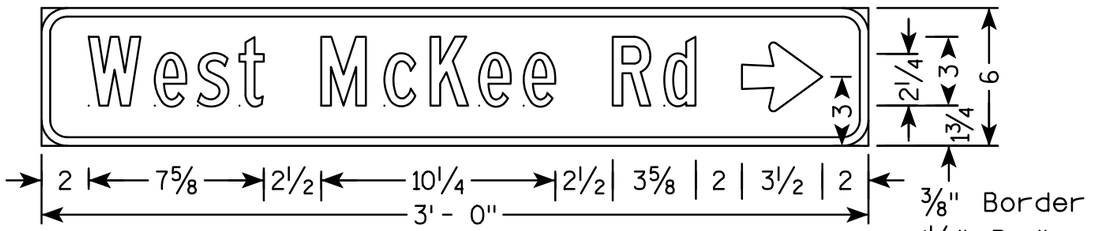
1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - C

37-2



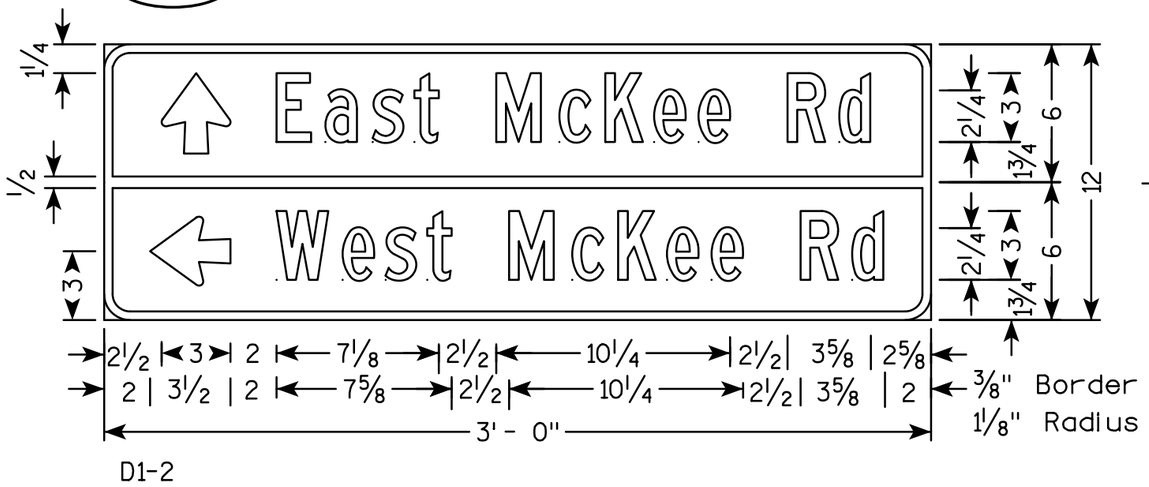
D1-2

38-6



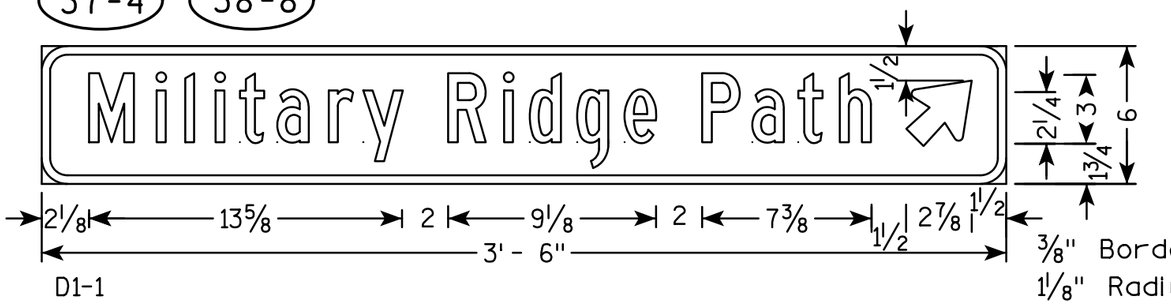
D1-1

38-7



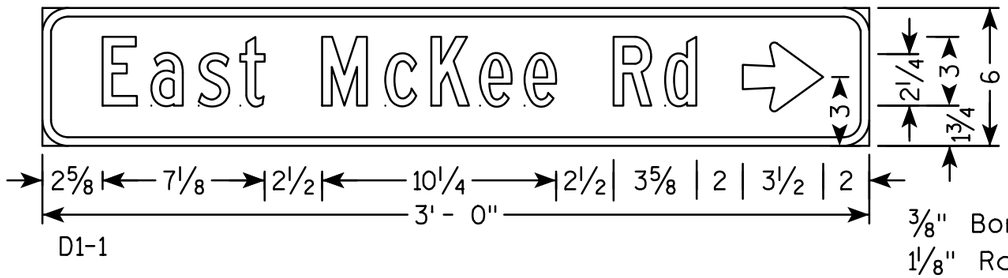
D1-2

37-4 38-8



D1-1

37-1



D1-1

7

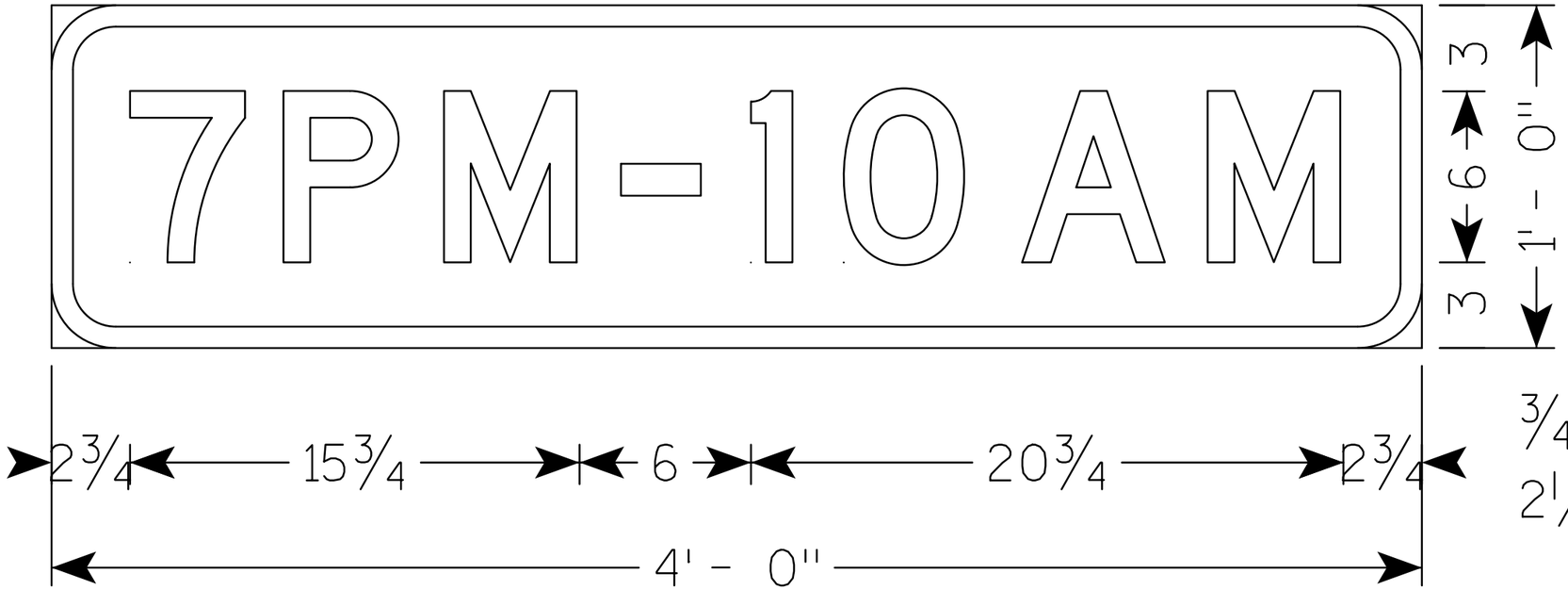
7

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	SIGNING DETAIL	SHEET 917	E

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D Line 1- Series C Line 2

SPECIAL 1



7

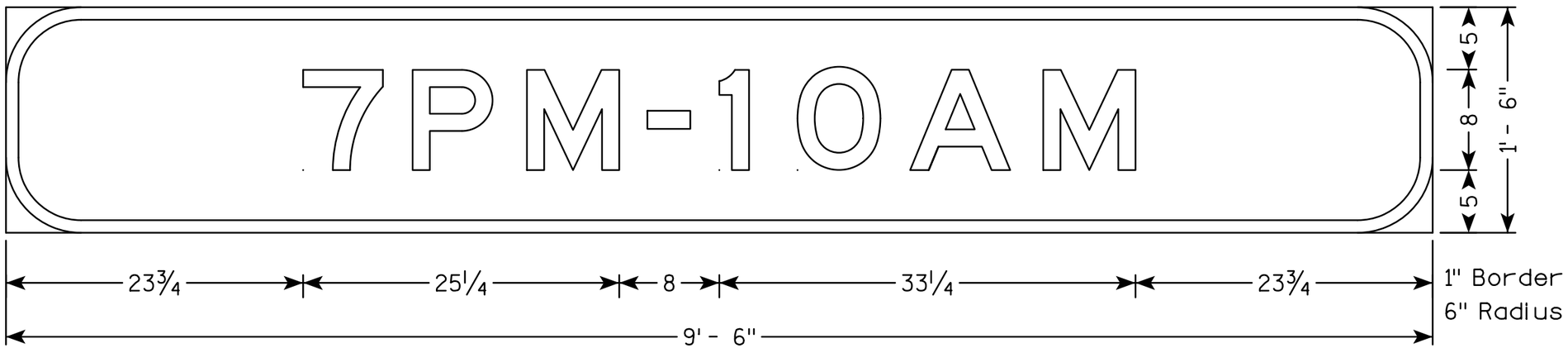
7

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	SIGNING DETAILS	SHEET NO: 918	E

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E

SPECIAL 2

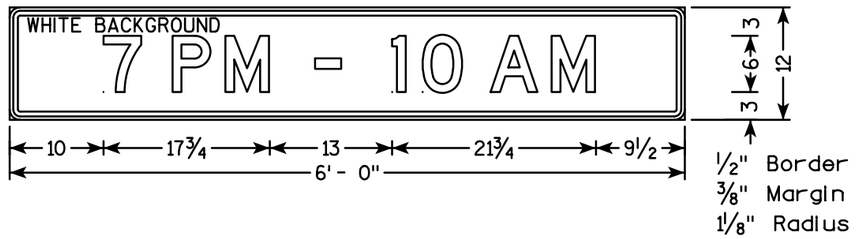


7

7

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	SIGNING DETAILS	SHEET NO: 919	E

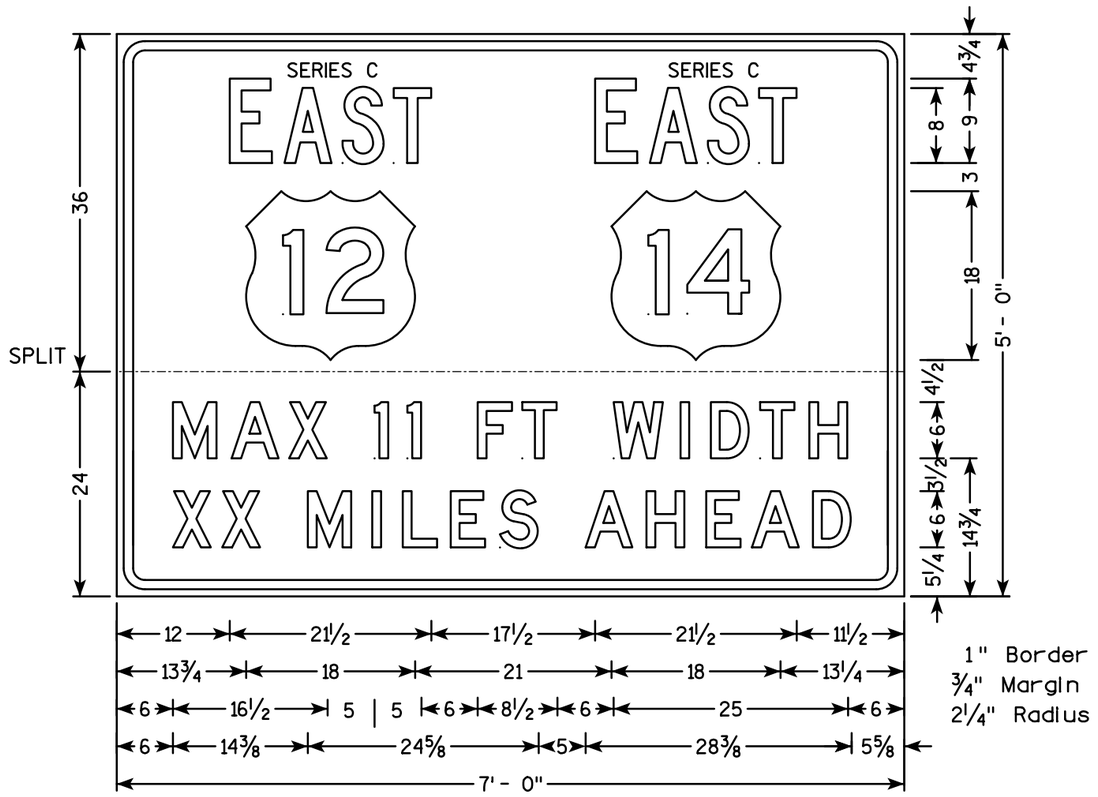
SPECIAL 4



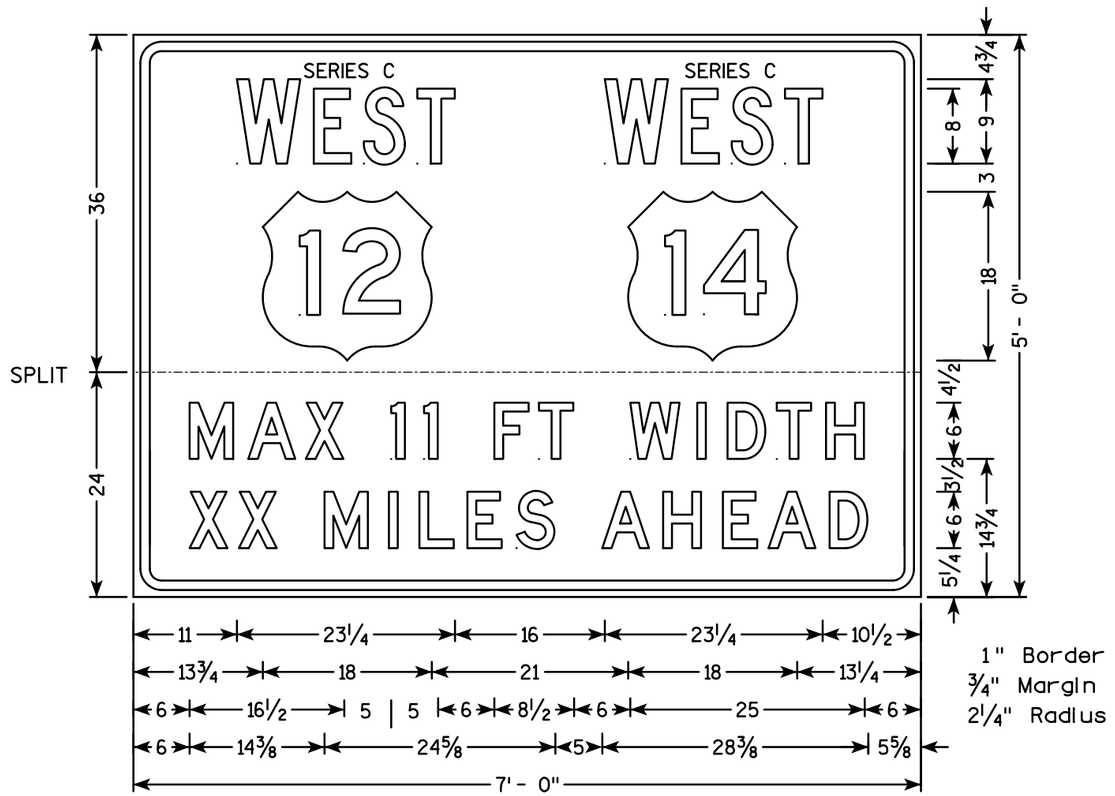
NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE except as Shown
   Message - BLACK
3. Message Series - D except as Shown

SPECIAL 3



SPECIAL 8

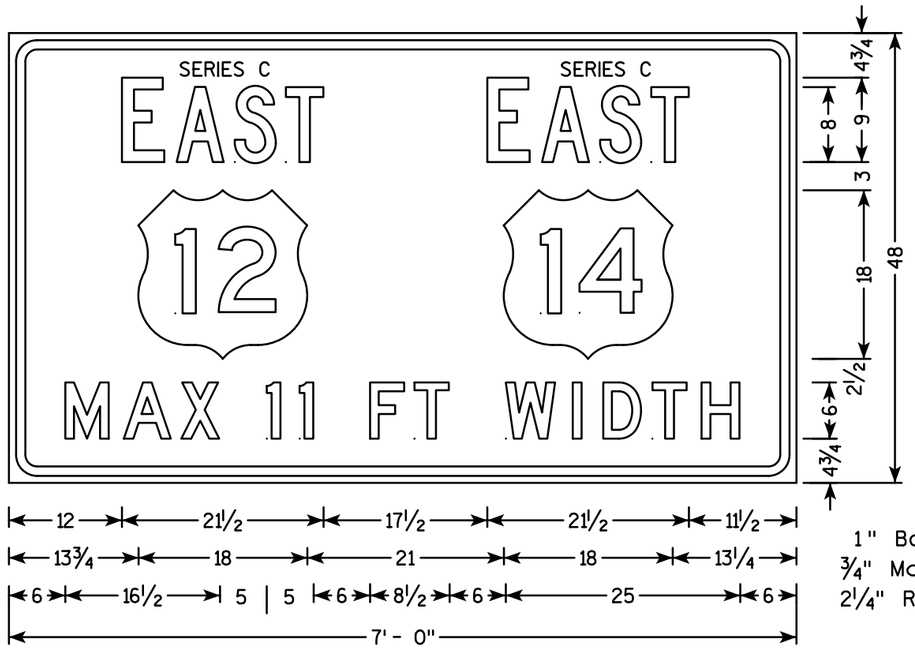


7

7

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	SIGNING DETAILS		SHEET 920	E

SPECIAL 5

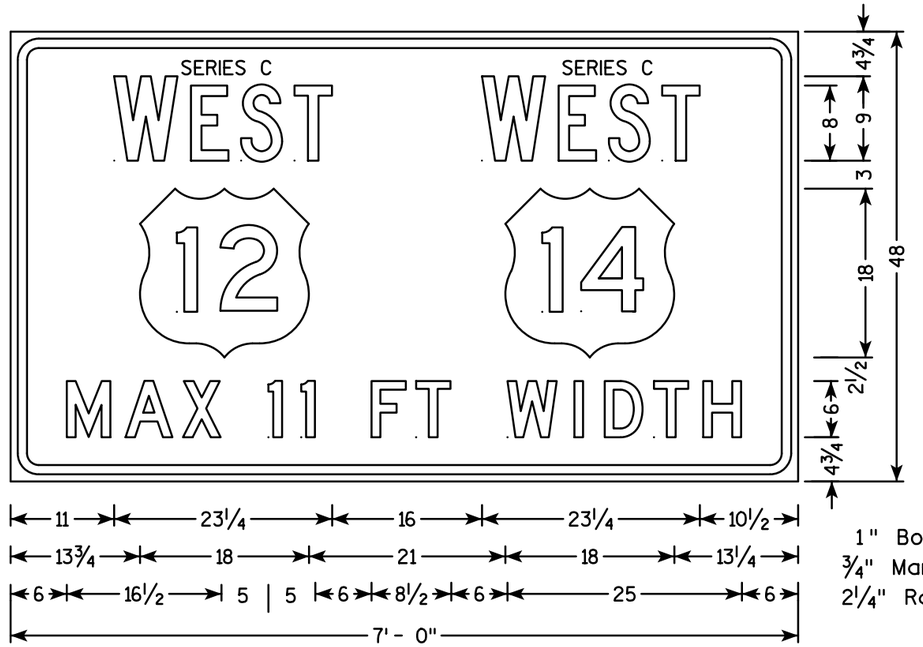


1" Border
¾" Margin
2¼" Radius

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE except as Shown
   Message - BLACK
3. Message Series - D except as Shown

SPECIAL 9



1" Border
¾" Margin
2¼" Radius

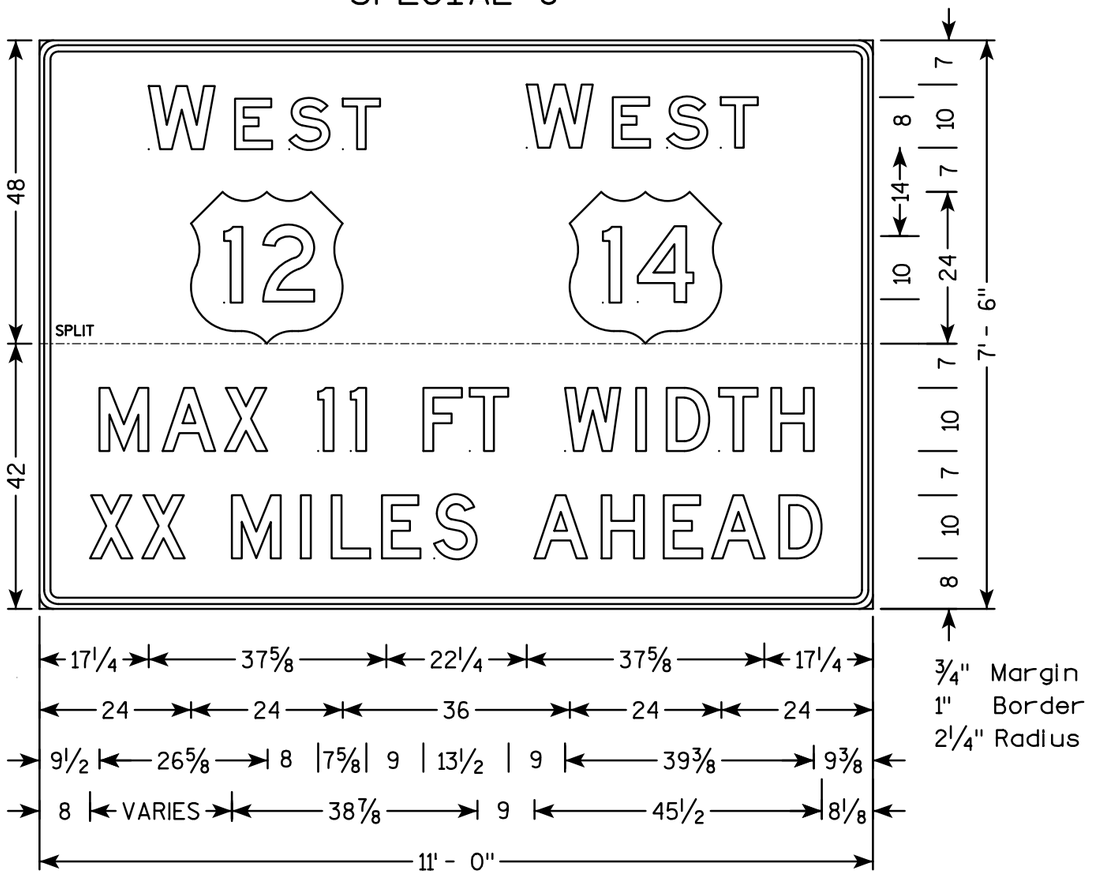
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7

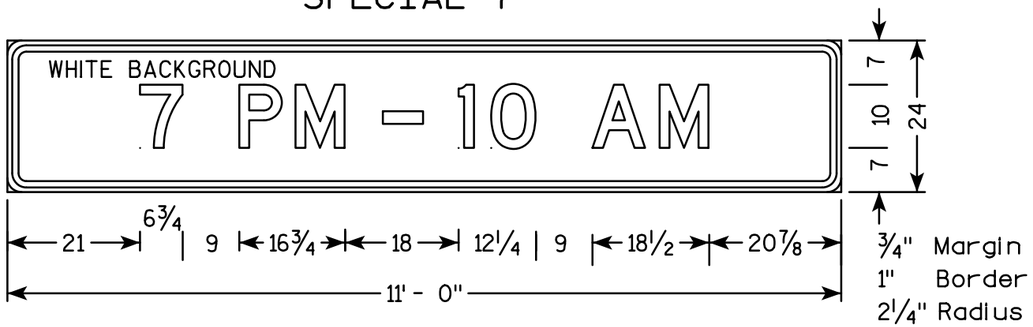
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	SIGNING DETAILS		SHEET 921	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\070109_sd.dgn PLOT DATE : 2/1/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 47

SPECIAL 6



SPECIAL 7



NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE except as Shown
   Message - Black
3. Message Series - D

7

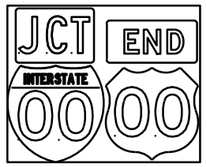
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	SIGNING DETAILS		SHEET 922	E

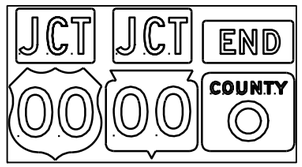
TYPICAL ASSEMBLIES



J1-1



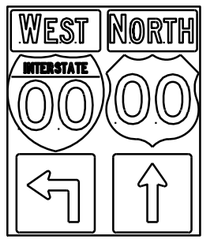
J1-2



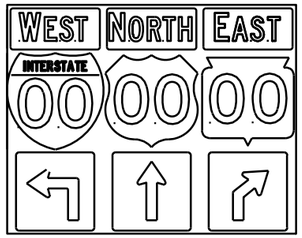
J1-3



J2-1



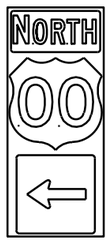
J2-2



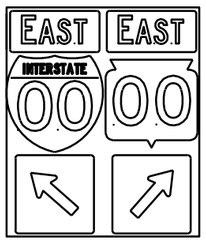
J2-3



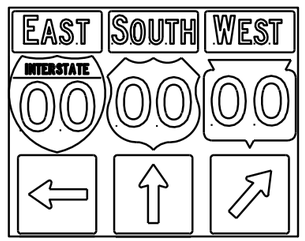
JV



J3-1



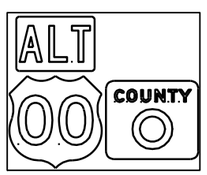
J3-2



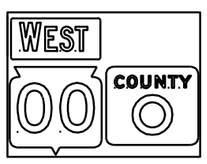
J3-3



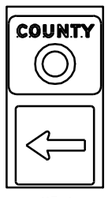
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



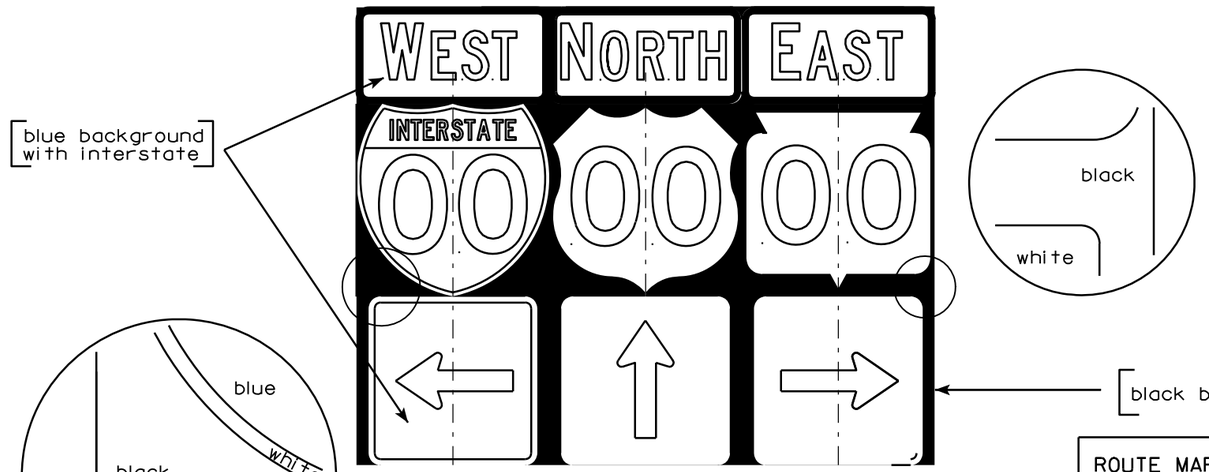
J23-1



J22-1

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square since base material is plywood.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.



ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/21/09 PLATE NO. A2-1S.6

PROJECT NO:

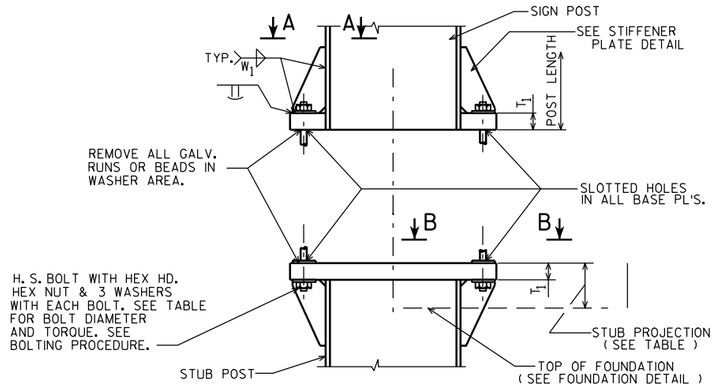
SHEET NO: 923 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A21S.DGN PLOT DATE : 21-OCT-2009 09:27 PLOT BY : ditjph PLOT NAME :

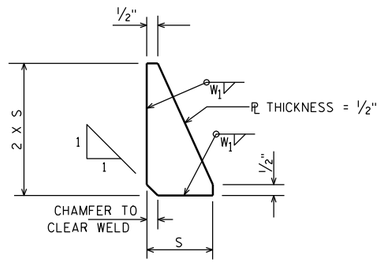
WISDOT/CADDS SHEET 42

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7

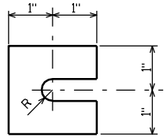


SIGN POST AND STUB POST ELEVATION



STIFFENER PLATE DETAIL

(SEE TABLE FOR DIMENSIONS)



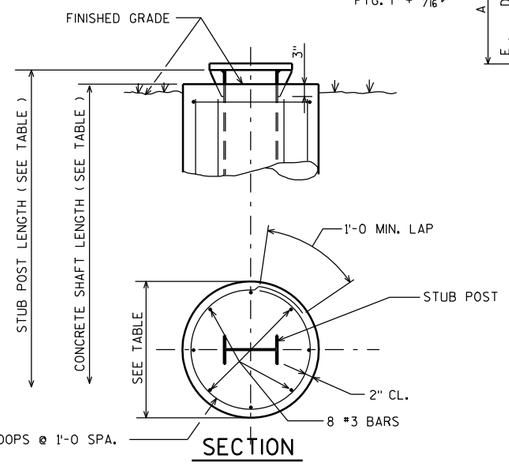
FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M.- B36.

SHIM DETAIL

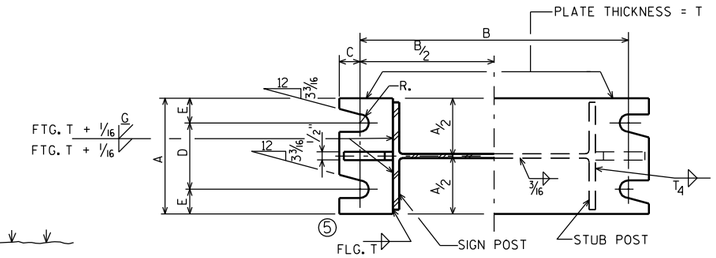
	QUANTITIES FOR 1 FOOTING	
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
⑦ E	1.0	62

REINF.	TYPE	#3	#4
	A	8 @ 4'-5	5 @ 6'-3
	B	8 @ 6'-5	7 @ 6'-3
	C	8 @ 6'-11	7 @ 6'-3
	D	8 @ 7'-5	8 @ 6'-3
⑦	E	8 @ 7'-11	9 @ 6'-3

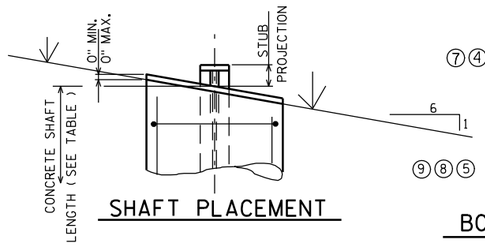
POST DETAIL



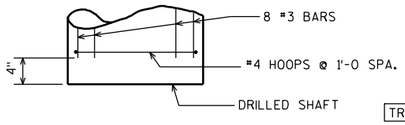
SECTION



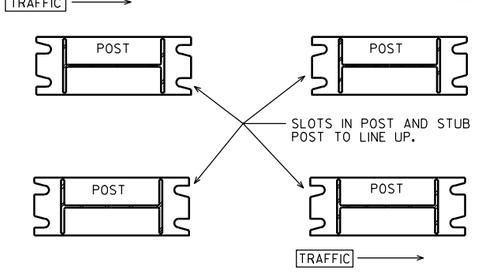
SECTION A-A SECTION B-B



SHAFT PLACEMENT



FOUNDATION DETAIL



POST SLOT ORIENTATION ⑦

DESIGN DATA

WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.

GROUP LOADS	PERCENT OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD & WIND	140
3. DEAD, ICE & 1/2 WIND△	140 △25 P.S.F. MIN.

ALLOWABLE SOIL PRESSURE = 1½T / SQ. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50.
⑨ THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
H.S. BOLTS, WASHERS & NUTS SHALL BE A325 GALVANIZED WHEN POSTS, POST STUBS AND ATTACHMENTS ARE A709 GRADE 50 AND GALVANIZED.

BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
2. SHIM AS REQ'D. TO PLUMB POST.
3. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
4. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.

	TYPE	DIMENSION: POST SIZE	BASE CONNECTION DATA TABLE: BOLT SIZE & TORQUE	A	B	C	D	E	T_1	T_4	W_1	R	S	FOUNDATION DATA: STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	② K
④	A	W10"X12.0 #/FT.	3/4" ϕ @ 75#-FT.	5 1/4"	1'-0 3/8	7/8"	3 1/2"	7/8"	1"	3/16"	5/16"	13/32 "	2 1/8"	3'-6	3"	2'-0 ϕ	5'-0	76.0# ④
④	B	W12"X16.0 #/FT.	7/8" ϕ @ 85#-FT.	5 1/2"	1'-4 1/4	1"	3 1/2"	1"	1 1/4"	1/4"	5/16"	15/32 "	3"	5'-6	3"	2'-0 ϕ	7'-0	146.5# ④
	C	W12"X19.0 #/FT.	7/8" ϕ @ 85#-FT.	5 1/2"	1'-4 1/4	1"	3 1/2"	1"	1 1/2"	5/16"	5/16"	15/32 "	3"	6'-0	3"	2'-0 ϕ	7'-6	182.1#
	D	W12"X22.0 #/FT.	7/8" ϕ @ 85#-FT.	5 1/2"	1'-4 1/4	1"	3 1/2"	1"	1 1/2"	3/8"	5/16"	15/32 "	3"	6'-6	3"	2'-0 ϕ	8'-0	210.5#
③	E	W12"X26.0 #/FT.	1" ϕ @ 90#-FT.	7"	1'-4 1/4	1 1/4"	4"	1 1/2"	1 1/2"	3/8"	5/16"	17/32 "	3"	7'-0	3"	2'-0 ϕ	8'-6	293.0# ③

① ⑥ ①

STRUCTURAL CARBON STEEL PAY WTS. (1 POST) = K+ (POST LENGTH X POST WT.)
" K " INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer
DATE 4/26/11 PLATE NO. A3-1.13

NO.	DATE	REVISION
⑨	4-26-11	REMOVE NON-GALVANIZED
⑧	10-30-96	NOT GALVANIZED/GALVANIZED
⑦	10-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
⑥	8-24-87	BASE CONN. WELD
⑤	10-13-81	BASE CONN. WELD & FUSE ℄ WASHERS
④	10-19-79	POST A & B, A572 GR. 50, & K
②	11-28-78	"K" ③ 4-23-79 TYPE "E"
①	5-4-78	T_1 , T_2 & W_1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

TYPE A, B, C, D, & E

CONST. SPEC. 2011 | DRAWN BY JPH | PLANS CK'D.

FTG. & SIGN SUPPORT DETAILS GROUND MOUNT BREAK-AWAY SIGNS

SHEET

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 924 | E

VERITCAL DIMENSION ⇨

HORIZONTAL DIMENSION ⇩

⇩ \ ⇨	2.5 ft.	3 ft.	3.5 ft.	4 ft.	4.5 ft.	5 ft.	5.5 ft.	6 ft.	6.5 ft.	7 ft.	7.5 ft.	8 ft.	8.5 ft.	9 ft.	9.5 ft.	10 ft.	10.5 ft.	11 ft.	11.5 ft.	12 ft.	12.5 ft.	13 ft.	13.5 ft.	14 ft.	14.5 ft.	15 ft.	15.5 ft.	16 ft.
10 ft.	25 Sq. Ft	30 Sq. Ft	35 Sq. Ft	40 Sq. Ft	45 Sq. Ft	50 Sq. Ft	55 Sq. Ft	60 Sq. Ft	65 Sq. Ft	70 Sq. Ft	75 Sq. Ft	80 Sq. Ft	85 Sq. Ft	90 Sq. Ft	95 Sq. Ft	100 Sq. Ft	105 Sq. Ft	110 Sq. Ft	115 Sq. Ft	120 Sq. Ft	125 Sq. Ft	130 Sq. Ft	135 Sq. Ft	140 Sq. Ft	145 Sq. Ft	150 Sq. Ft	155 Sq. Ft	160 Sq. Ft
11 ft.	27.5 Sq. Ft	33 Sq. Ft	38.5 Sq. Ft	44 Sq. Ft	49.5 Sq. Ft	55 Sq. Ft	60.5 Sq. Ft	66 Sq. Ft	71.5 Sq. Ft	77 Sq. Ft	82.5 Sq. Ft	88 Sq. Ft	93.5 Sq. Ft	99 Sq. Ft	104.5 Sq. Ft	110 Sq. Ft	115.5 Sq. Ft	121 Sq. Ft	126.5 Sq. Ft	132 Sq. Ft	137.5 Sq. Ft	143 Sq. Ft	148.5 Sq. Ft	154 Sq. Ft	159.5 Sq. Ft	165 Sq. Ft	170.5 Sq. Ft	176 Sq. Ft
12 ft.	30 Sq. Ft	36 Sq. Ft	42 Sq. Ft	48 Sq. Ft	54 Sq. Ft	60 Sq. Ft	66 Sq. Ft	72 Sq. Ft	78 Sq. Ft	84 Sq. Ft	90 Sq. Ft	96 Sq. Ft	102 Sq. Ft	108 Sq. Ft	114 Sq. Ft	120 Sq. Ft	126 Sq. Ft	132 Sq. Ft	138 Sq. Ft	144 Sq. Ft	150 Sq. Ft	156 Sq. Ft	162 Sq. Ft	168 Sq. Ft	174 Sq. Ft	180 Sq. Ft	186 Sq. Ft	192 Sq. Ft
13 ft.	32.5 Sq. Ft	39 Sq. Ft	45.5 Sq. Ft	52 Sq. Ft	58.5 Sq. Ft	65 Sq. Ft	71.5 Sq. Ft	78 Sq. Ft	84.5 Sq. Ft	91 Sq. Ft	97.5 Sq. Ft	104 Sq. Ft	110.5 Sq. Ft	117 Sq. Ft	123.5 Sq. Ft	130 Sq. Ft	136.5 Sq. Ft	143 Sq. Ft	149.5 Sq. Ft	156 Sq. Ft	162.5 Sq. Ft	169 Sq. Ft	175.5 Sq. Ft	182 Sq. Ft	188.5 Sq. Ft	195 Sq. Ft	201.5 Sq. Ft	208 Sq. Ft
14 ft.	35 Sq. Ft	42 Sq. Ft	49 Sq. Ft	56 Sq. Ft	63 Sq. Ft	70 Sq. Ft	77 Sq. Ft	84 Sq. Ft	91 Sq. Ft	98 Sq. Ft	105 Sq. Ft	112 Sq. Ft	119 Sq. Ft	126 Sq. Ft	133 Sq. Ft	140 Sq. Ft	147 Sq. Ft	154 Sq. Ft	161 Sq. Ft	168 Sq. Ft	175 Sq. Ft	182 Sq. Ft	189 Sq. Ft	196 Sq. Ft	203 Sq. Ft	210 Sq. Ft	217 Sq. Ft	224 Sq. Ft
15 ft.	37.5 Sq. Ft	45 Sq. Ft	52.5 Sq. Ft	60 Sq. Ft	67.5 Sq. Ft	75 Sq. Ft	82.5 Sq. Ft	90 Sq. Ft	97.5 Sq. Ft	105 Sq. Ft	112.5 Sq. Ft	120 Sq. Ft	127.5 Sq. Ft	135 Sq. Ft	142.5 Sq. Ft	150 Sq. Ft	157.5 Sq. Ft	165 Sq. Ft	172.5 Sq. Ft	180 Sq. Ft	187.5 Sq. Ft	195 Sq. Ft	202.5 Sq. Ft	210 Sq. Ft	217.5 Sq. Ft	225 Sq. Ft	232.5 Sq. Ft	240 Sq. Ft
16 ft.	40 Sq. Ft	48 Sq. Ft	56 Sq. Ft	64 Sq. Ft	72 Sq. Ft	80 Sq. Ft	88 Sq. Ft	96 Sq. Ft	104 Sq. Ft	112 Sq. Ft	120 Sq. Ft	128 Sq. Ft	136 Sq. Ft	144 Sq. Ft	152 Sq. Ft	160 Sq. Ft	168 Sq. Ft	176 Sq. Ft	184 Sq. Ft	192 Sq. Ft	200 Sq. Ft	208 Sq. Ft	216 Sq. Ft	224 Sq. Ft	232 Sq. Ft	240 Sq. Ft	248 Sq. Ft	256 Sq. Ft
17 ft.	42.5 Sq. Ft	51 Sq. Ft	59.5 Sq. Ft	68 Sq. Ft	76.5 Sq. Ft	85 Sq. Ft	93.5 Sq. Ft	102 Sq. Ft	110.5 Sq. Ft	119 Sq. Ft	127.5 Sq. Ft	136 Sq. Ft	144.5 Sq. Ft	153 Sq. Ft	161.5 Sq. Ft	170 Sq. Ft	178.5 Sq. Ft	187 Sq. Ft	195.5 Sq. Ft	204 Sq. Ft	212.5 Sq. Ft	221 Sq. Ft	229.5 Sq. Ft	238 Sq. Ft	246.5 Sq. Ft	255 Sq. Ft	263.5 Sq. Ft	272 Sq. Ft
18 ft.	45 Sq. Ft	54 Sq. Ft	63 Sq. Ft	72 Sq. Ft	81 Sq. Ft	90 Sq. Ft	99 Sq. Ft	108 Sq. Ft	117 Sq. Ft	126 Sq. Ft	135 Sq. Ft	144 Sq. Ft	153 Sq. Ft	162 Sq. Ft	171 Sq. Ft	180 Sq. Ft	189 Sq. Ft	198 Sq. Ft	207 Sq. Ft	216 Sq. Ft	225 Sq. Ft	234 Sq. Ft	243 Sq. Ft	252 Sq. Ft	261 Sq. Ft	270 Sq. Ft	279 Sq. Ft	288 Sq. Ft
19 ft.	47.5 Sq. Ft	57 Sq. Ft	66.5 Sq. Ft	76 Sq. Ft	85.5 Sq. Ft	95 Sq. Ft	104.5 Sq. Ft	114 Sq. Ft	123.5 Sq. Ft	133 Sq. Ft	142.5 Sq. Ft	152 Sq. Ft	161.5 Sq. Ft	171 Sq. Ft	180.5 Sq. Ft	190 Sq. Ft	199.5 Sq. Ft	209 Sq. Ft	218.5 Sq. Ft	228 Sq. Ft	237.5 Sq. Ft	247 Sq. Ft	256.5 Sq. Ft	266 Sq. Ft	275.5 Sq. Ft	285 Sq. Ft	294.5 Sq. Ft	304 Sq. Ft
20 ft.	50 Sq. Ft	60 Sq. Ft	70 Sq. Ft	80 Sq. Ft	90 Sq. Ft	100 Sq. Ft	110 Sq. Ft	120 Sq. Ft	130 Sq. Ft	140 Sq. Ft	150 Sq. Ft	160 Sq. Ft	170 Sq. Ft	180 Sq. Ft	190 Sq. Ft	200 Sq. Ft	210 Sq. Ft	220 Sq. Ft	230 Sq. Ft	240 Sq. Ft	250 Sq. Ft	260 Sq. Ft	270 Sq. Ft	280 Sq. Ft	290 Sq. Ft	300 Sq. Ft	310 Sq. Ft	320 Sq. Ft
21 ft.	52.5 Sq. Ft	63 Sq. Ft	73.5 Sq. Ft	84 Sq. Ft	94.5 Sq. Ft	105 Sq. Ft	115.5 Sq. Ft	126 Sq. Ft	136.5 Sq. Ft	147 Sq. Ft	157.5 Sq. Ft	168 Sq. Ft	178.5 Sq. Ft	189 Sq. Ft	199.5 Sq. Ft	210 Sq. Ft	220.5 Sq. Ft	231 Sq. Ft	241.5 Sq. Ft	252 Sq. Ft	262.5 Sq. Ft	273 Sq. Ft	283.5 Sq. Ft	294 Sq. Ft	304.5 Sq. Ft	315 Sq. Ft	325.5 Sq. Ft	336 Sq. Ft

Type "A" (2 Posts)
1.2 CY Conc.
68 LBs Bar Steel

Type "B" (2 Posts)
1.6 CY Conc.
98 LBs Bar Steel

Type "C" (2 Posts)
1.8 CY Conc.
100 LBs Bar Steel

Type "D" (2 Posts)
1.8 CY Conc.
112 LBs Bar Steel

Type "C" (3 Posts)
2.7 CY Conc.
150 LBs Bar Steel

STEEL POST SIZE

"A" - W10" x 12"
"B" - W12" x 16"
"C" - W12" x 19"
"D" - W12 x 22"

7

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DETERMINATION OF HIGH STRENGTH STRUCTURAL STEEL SIGN SUPPORT TYPE

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/03/10 PLATE NO. A3-2.2

PROJECT NO: | SHEET NO: E

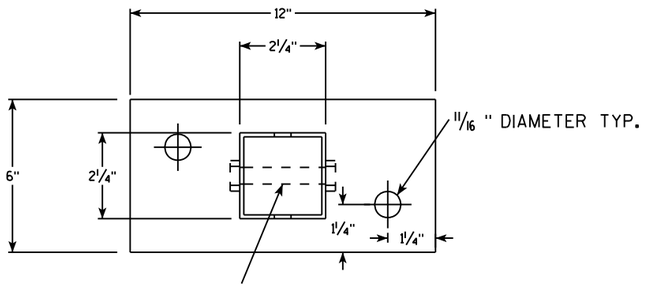
FILE NAME : C:\users\PROJECTS\tr_stdplate\A32.DGN PLOT DATE : 05-MAR-2010 10:10 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

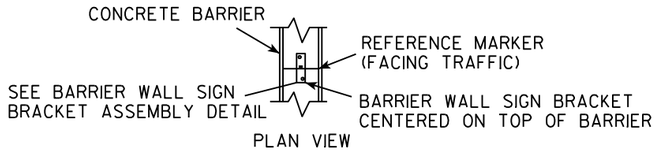
TYPICAL BARRIER WALL SIGN PLACEMENT DETAILS

TYPICAL REFERENCE MARKER MOUNTING DETAILS

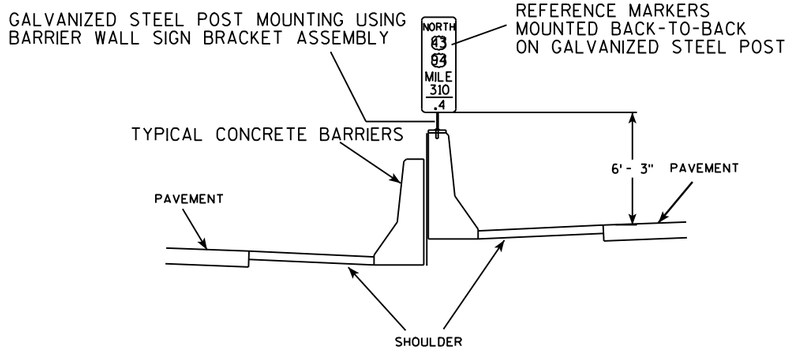
BARRIER WALL SIGN BRACKET ASSEMBLY
NOT TO SCALE



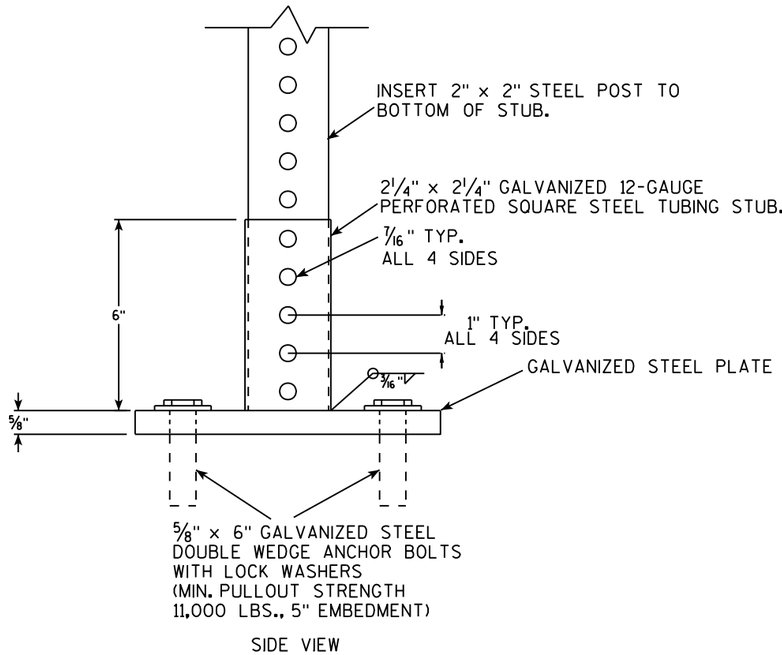
PLAN VIEW



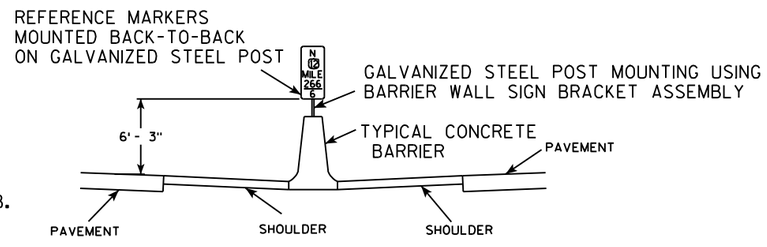
MEDIAN BARRIER MOUNTING DETAIL



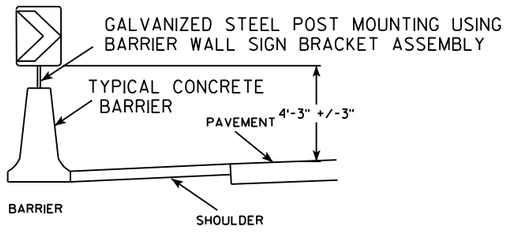
TYPICAL ENHANCED REFERENCE
MARKER PLACEMENT ON DOUBLE MEDIAN BARRIER



SIDE VIEW



TYPICAL ENHANCED REFERENCE
MARKER PLACEMENT ON SINGLE MEDIAN BARRIER



TYPICAL CHEVRON MARKER PLACEMENT

NOTES

1) ALL MATERIAL TO BE APPROVED BY ENGINEER BEFORE INSTALLATION
2) SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS.

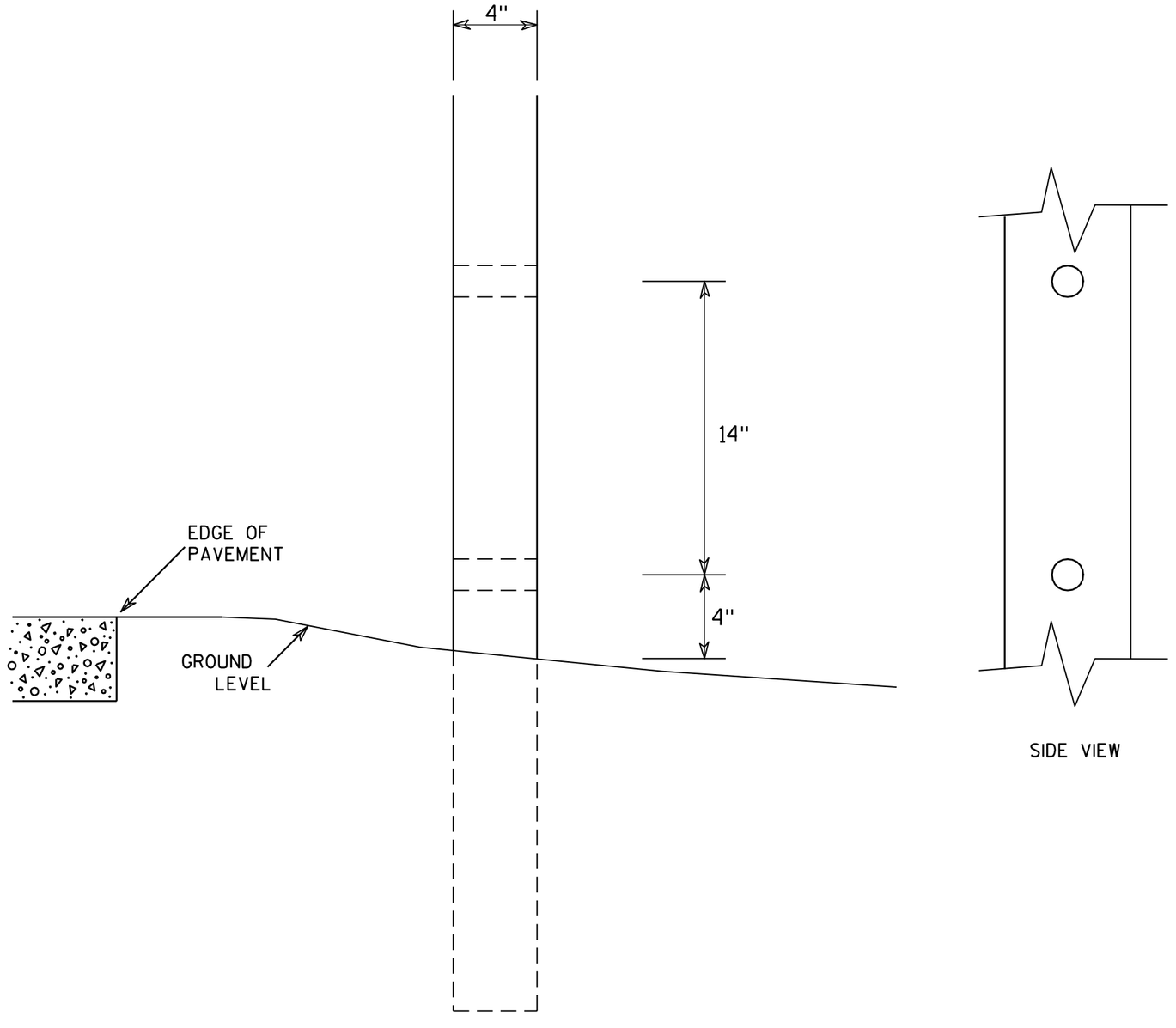
SIGN MOUNTING ON BARRIER WALL

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 8/15/2012 PLATE NO. A4-10.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 926	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

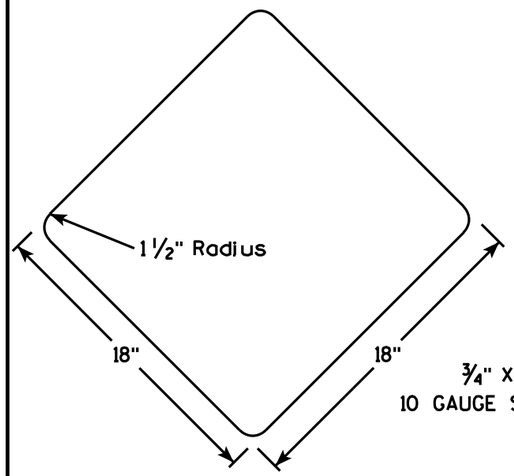
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

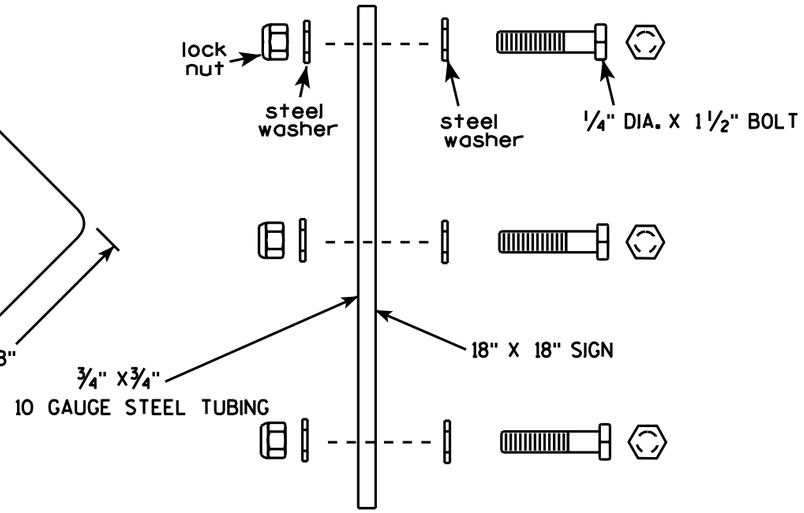
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 927	E



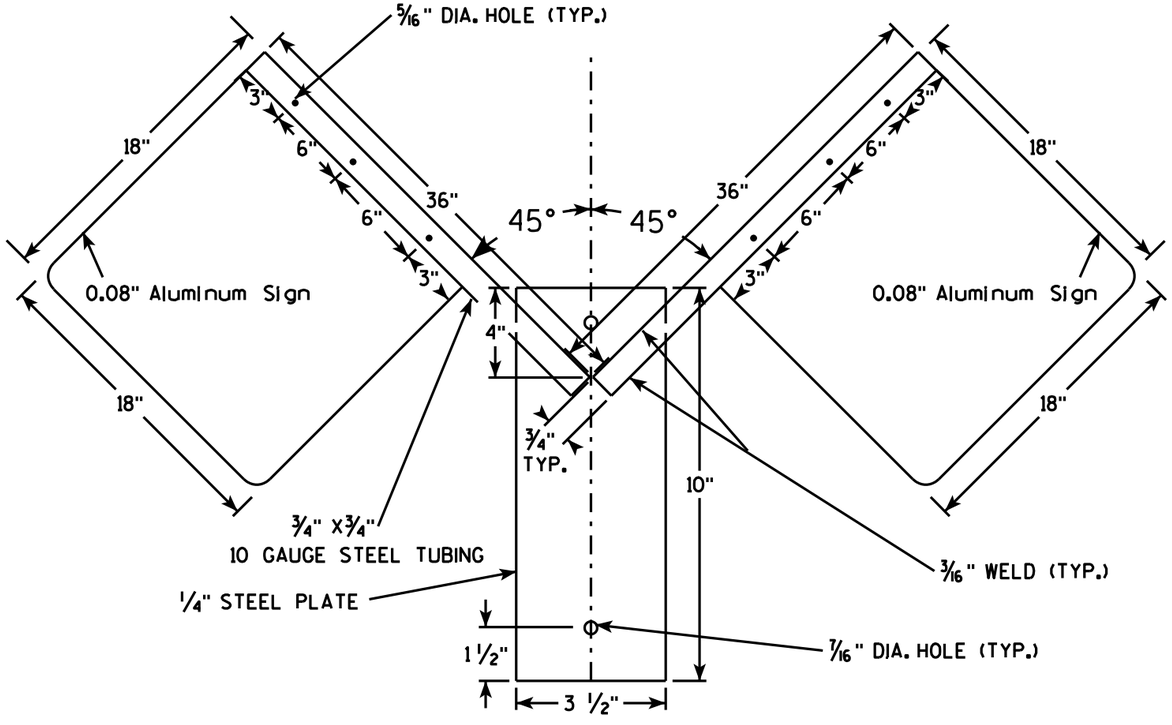
SIGN DETAIL



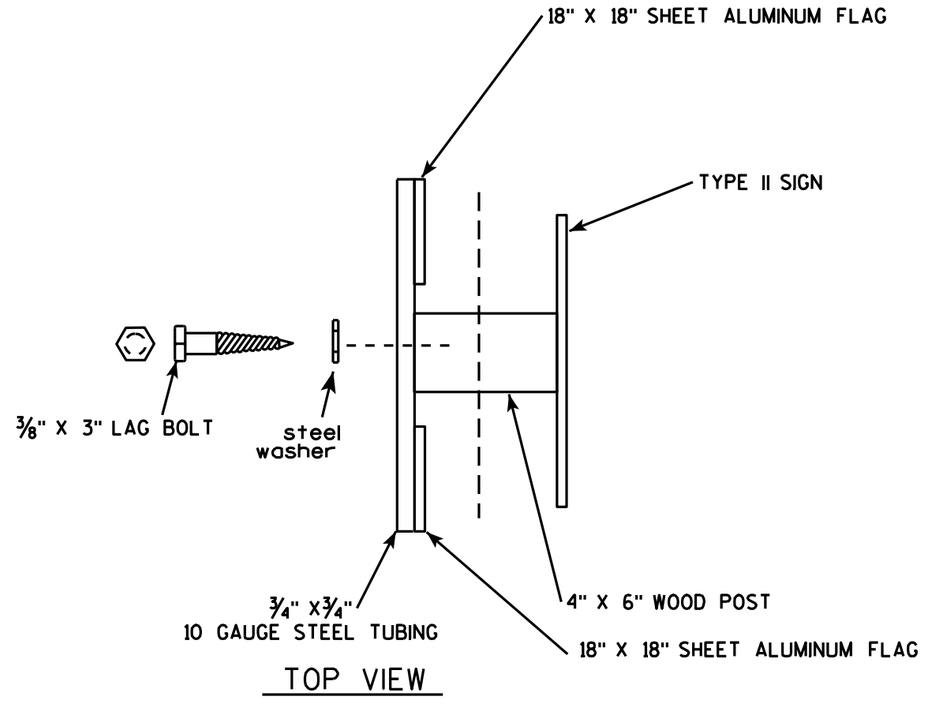
FLAG BOLTING PROCEDURE

GENERAL NOTES

1. ALL MATERIAL TO BE APPROVED BY ENGINEER BEFORE INSTALLATION.
2. SEE SIGN PLATE A4-8 FOR HARDWARE REQUIREMENTS.
3. SIGN IS TYPE II, TYPE F REFLECTIVE- REFERENCE WisDOT STANDARD. SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION LATEST EDITION.
4. SIGN COLOR - ORANGE
5. SIGN CORNERS SHALL BE ROUNDED
6. BRACKET SHALL BE ENTIRELY PRIMED AND PAINTED WITH TWO COATS OF A BLACK POWDER COATED ENAMEL PAINT.



BACK VIEW



TOP VIEW

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGN FLAGS

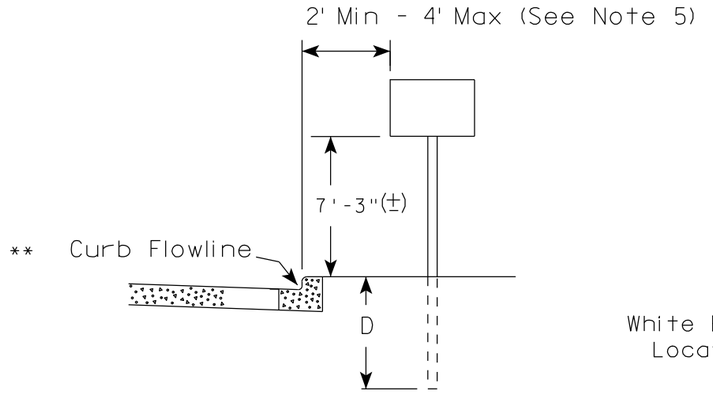
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

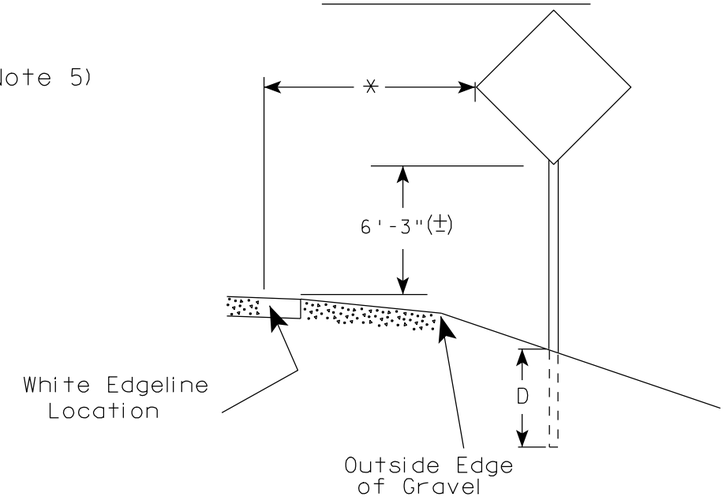
DATE 8/15/2012 PLATE NO. A4-15.2

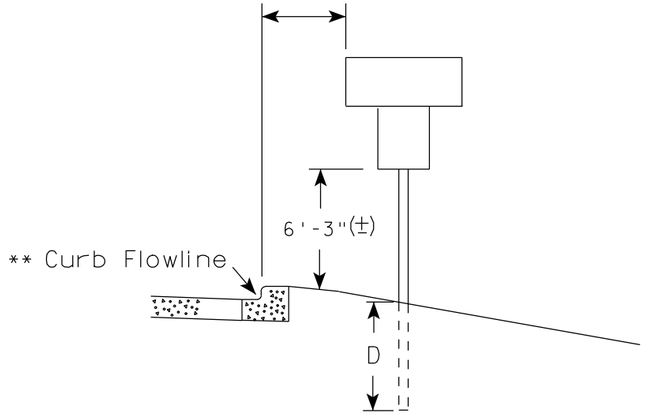
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 928	E

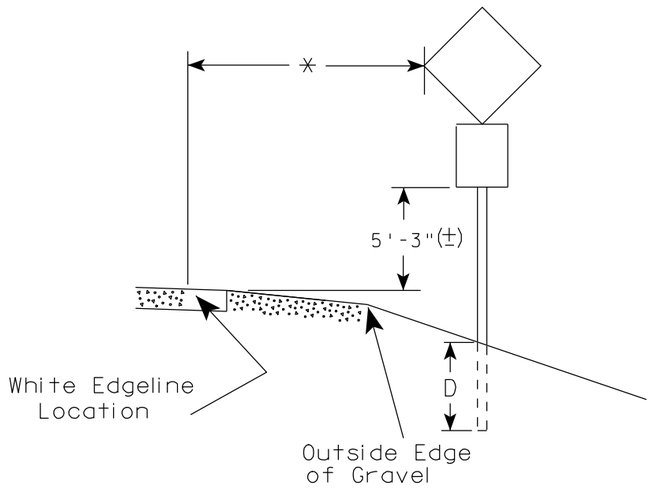
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

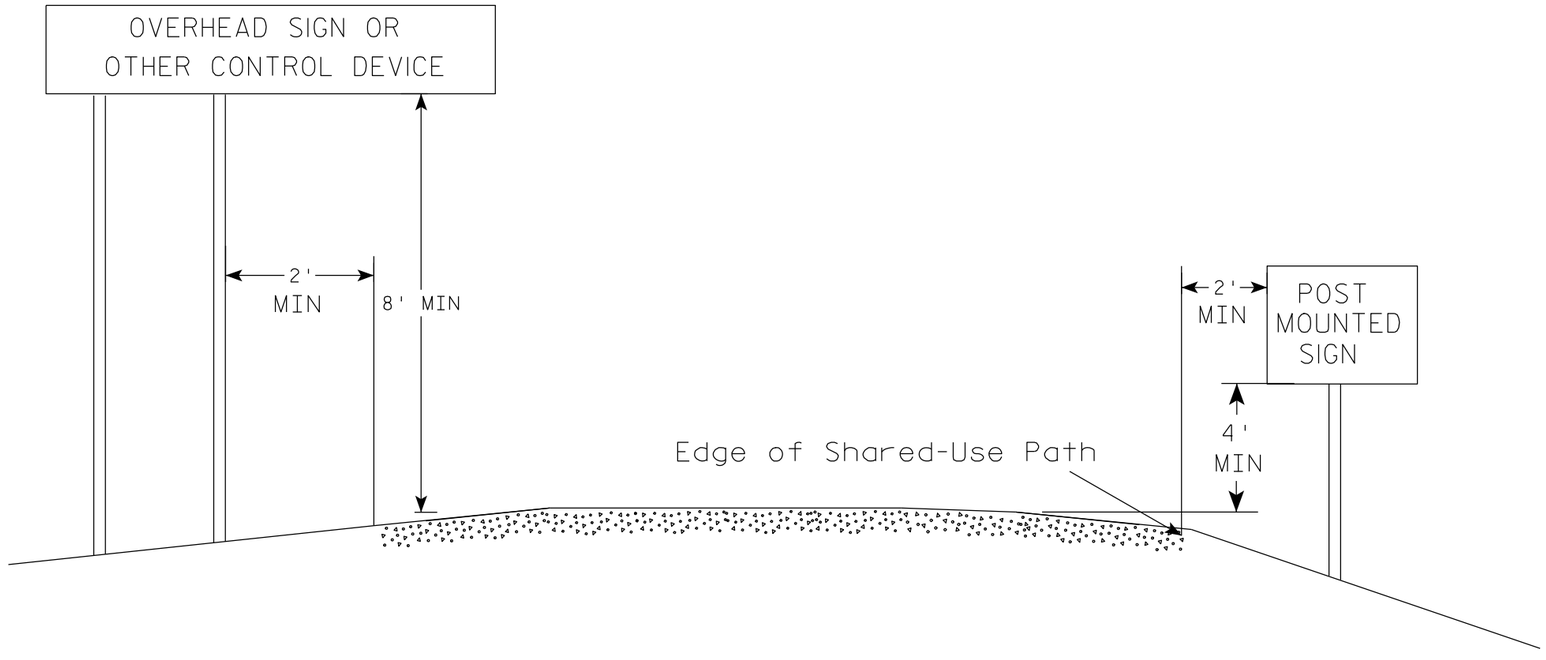
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-3.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 929	E

GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. Offset distance shall be consistent with existing signs or consistent throughout length of project.



POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON MULTI USE PATHS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

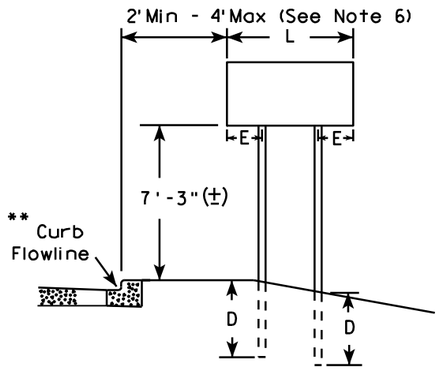
DATE 3/5/2012 PLATE NO. A4-3S.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 930	E

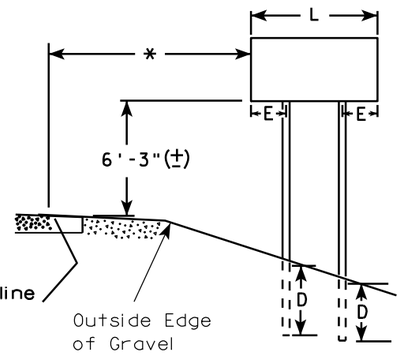
FILE NAME : c:\CAEFiles\Projects\tr_stdplate\A43S.DGN PLOT DATE : 05-MAR-2012 13:42 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 101.303739:1.000000

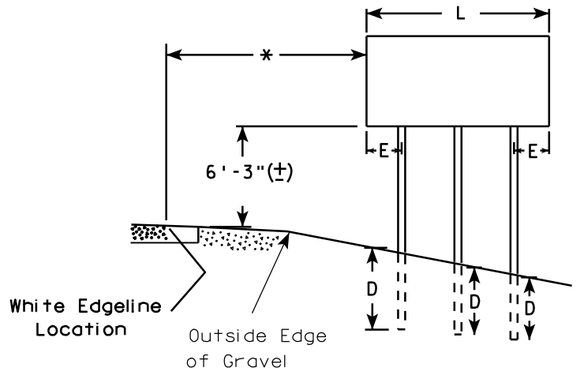
WISDOT/CADDS SHEET 42

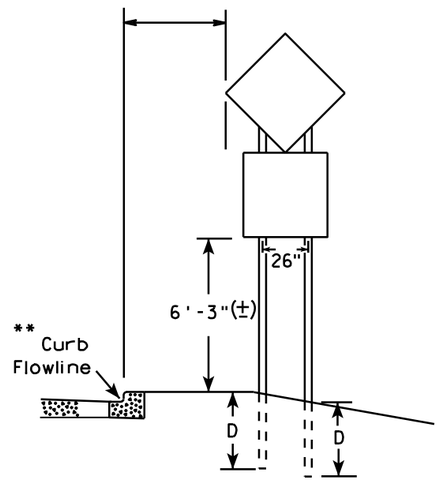
URBAN AREA



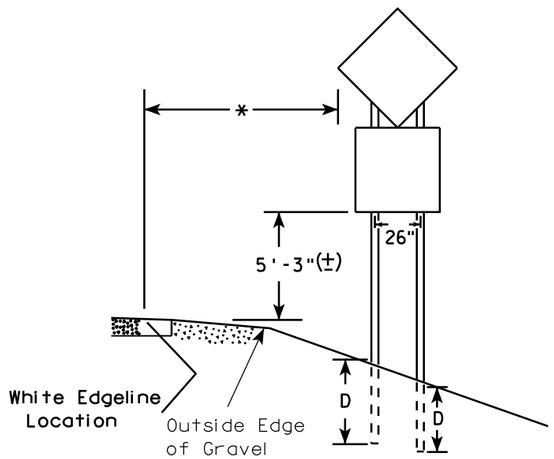
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. For multiple post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

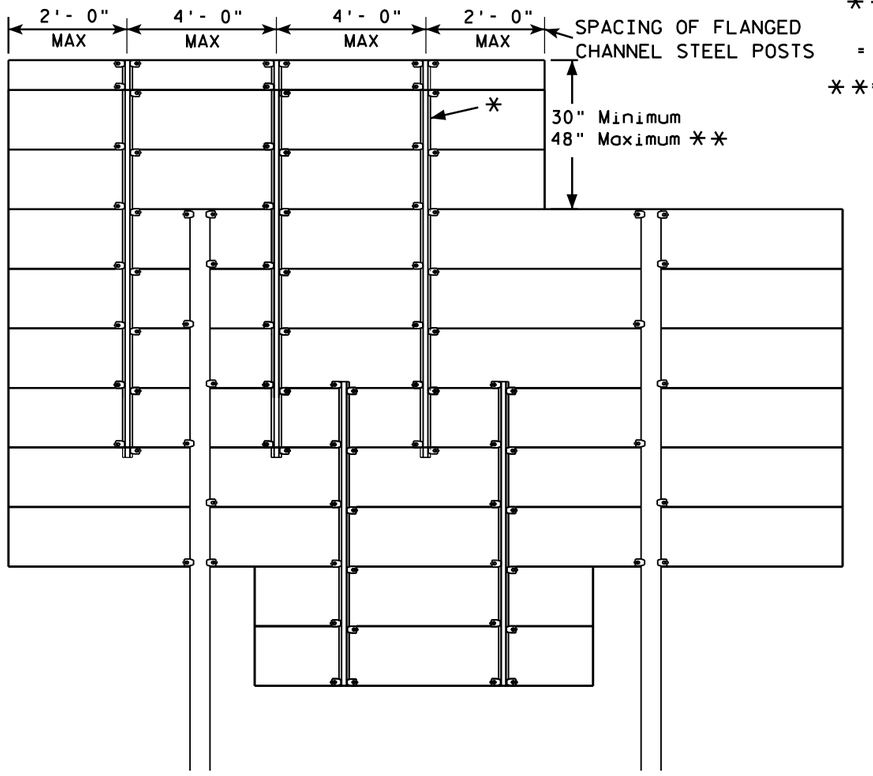
DATE 9/21/2011 PLATE NO. A4-4.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 931	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A44.DGN PLOT DATE : 21-SEP-2011 13:36 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 109.249131:1.000000

WISDOT/CADDS SHEET 42

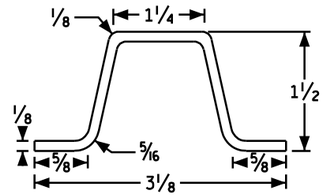
GROUND MOUNTED SIGN



*=2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

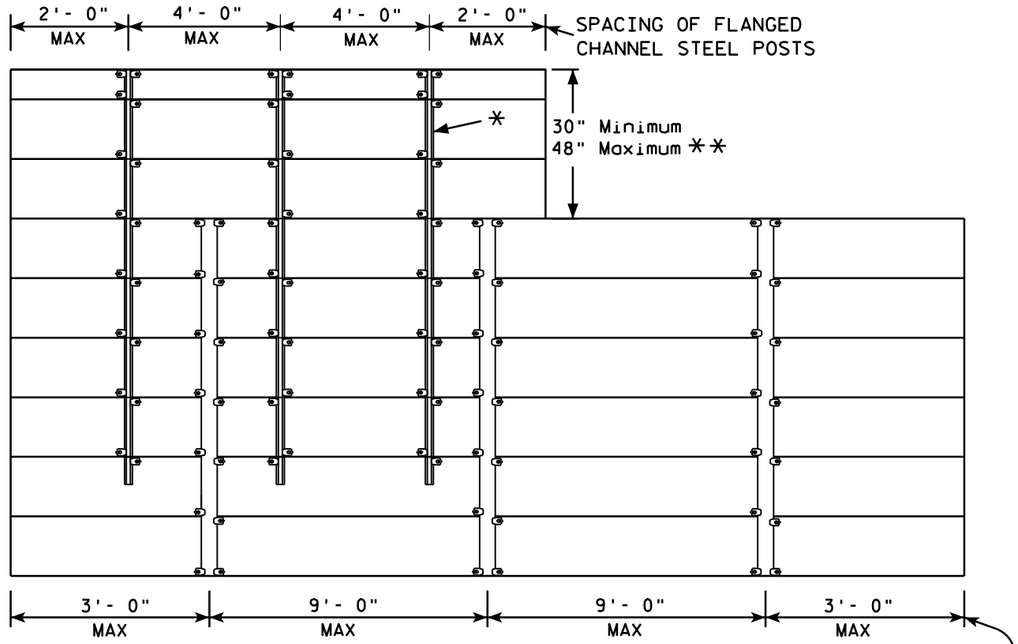
**=FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

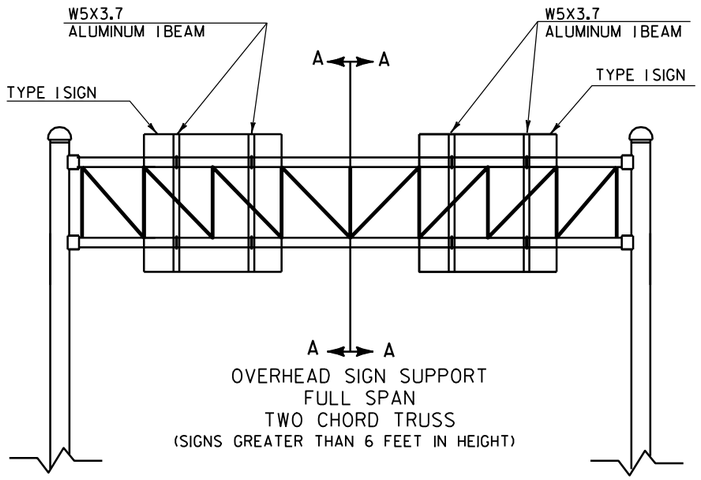
DATE 6/7/10 PLATE NO. A4-6.11

7

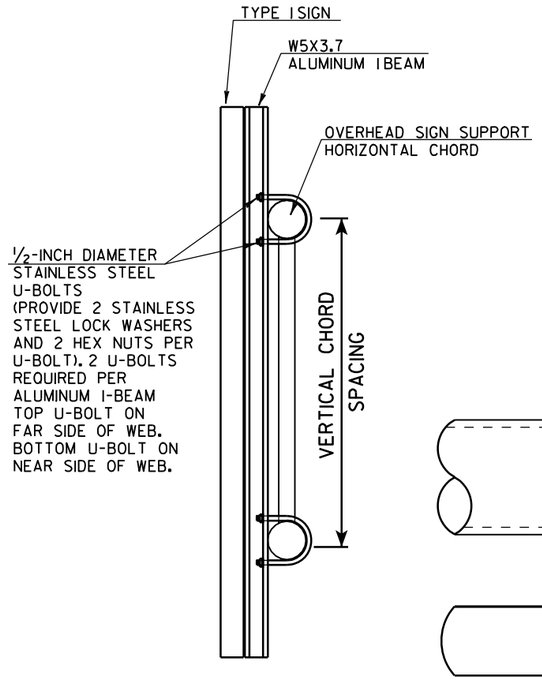
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PROJECT NO:

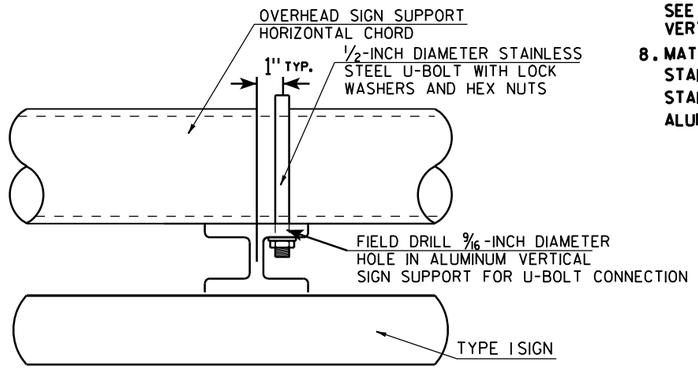
SHEET NO: 932 E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



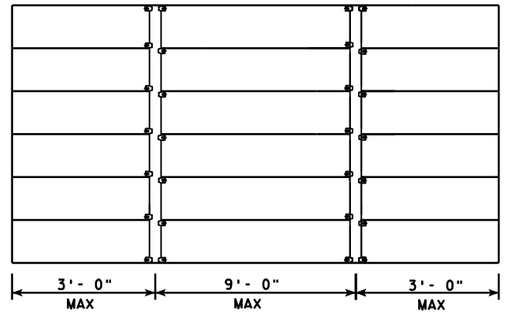
CUT SECTION A-A



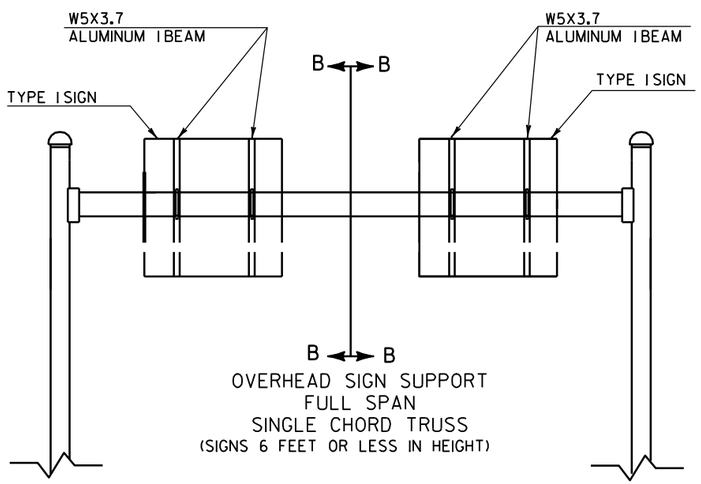
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

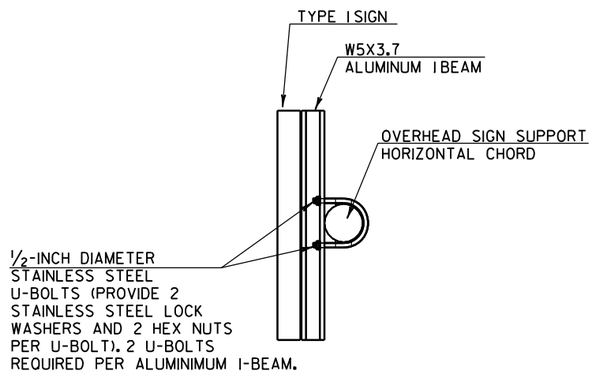
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.



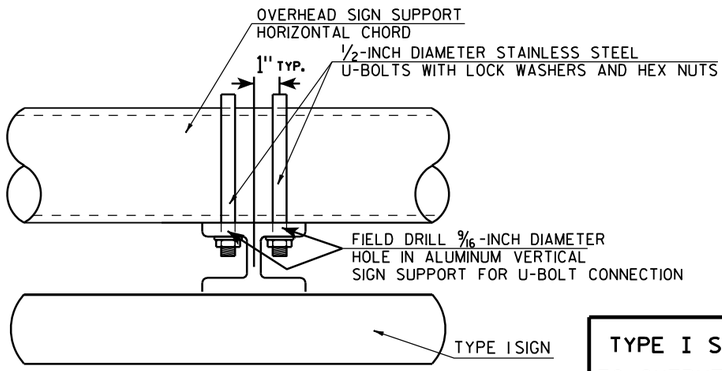
SPACING OF W5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
SINGLE CHORD TRUSS
(SIGNS 6 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
SINGLE CHORD TRUSS
PLAN VIEW

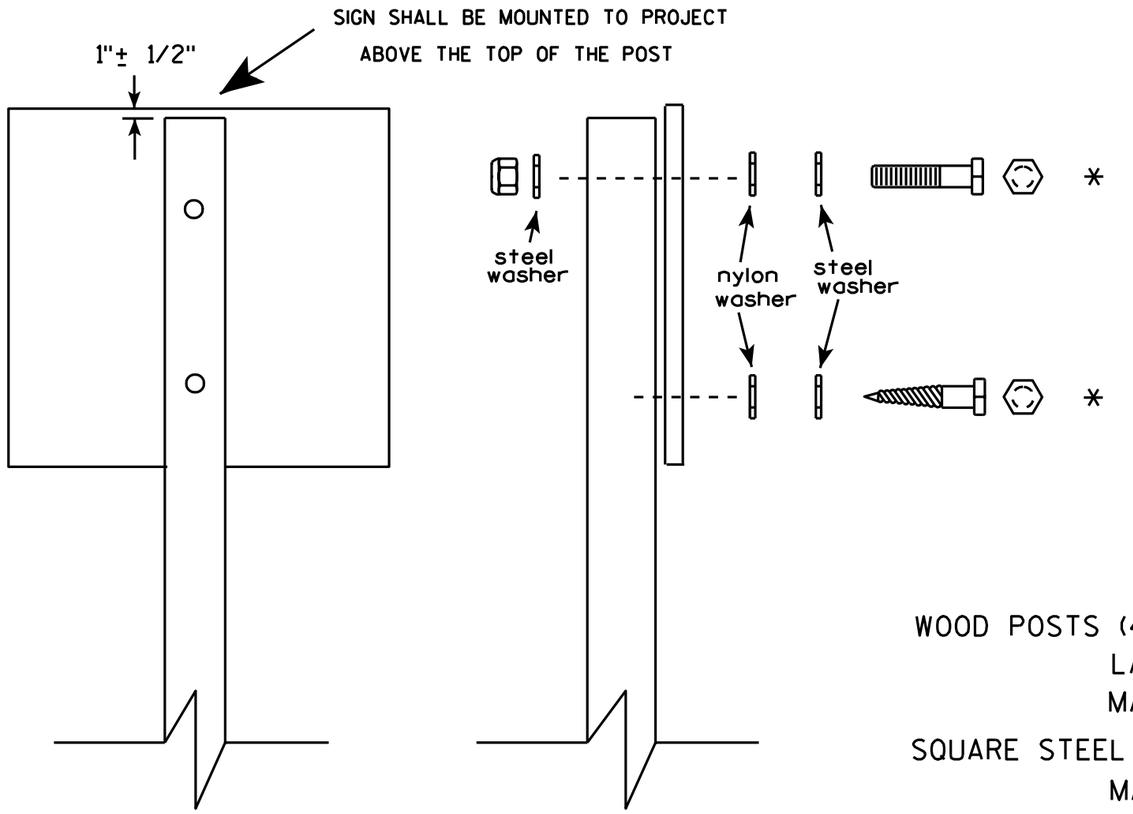
TYPE I SIGN CONNECTION TO OVERHEAD SIGN SUPPORT

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/12/12 PLATE NO. A4-7.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 933	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

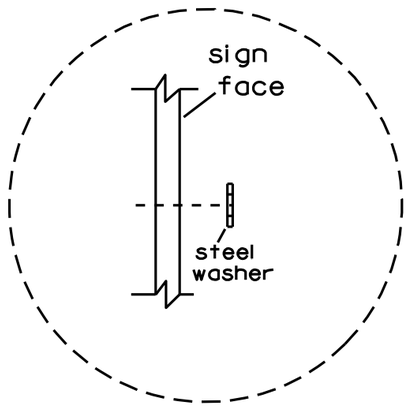
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

7

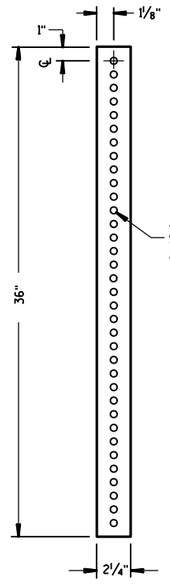
7

PROJECT NO:

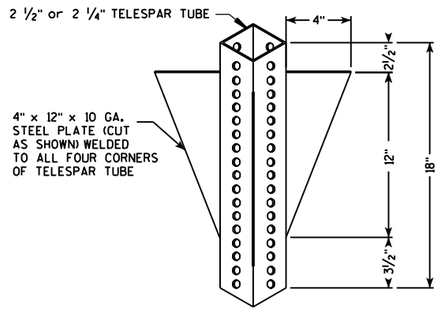
SHEET NO: 934 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

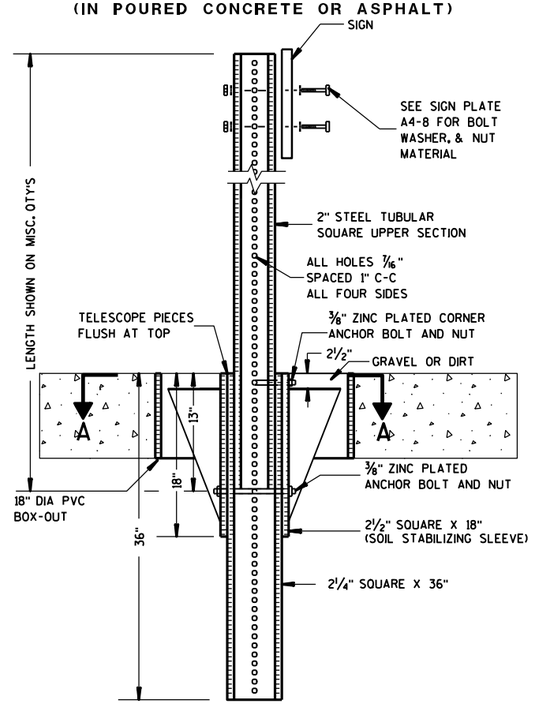
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



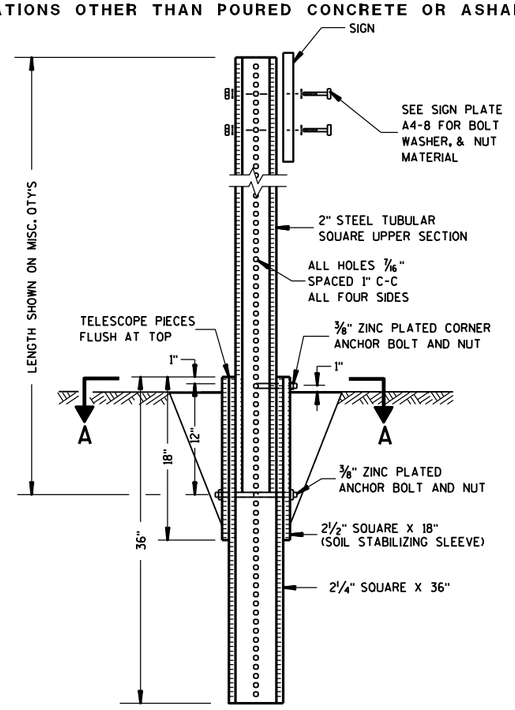
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

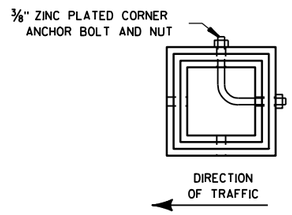


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

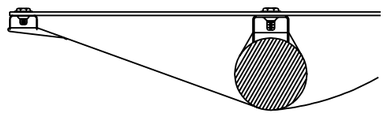
TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

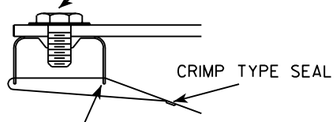
APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 5/30/12 PLATE NO. A4-9.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 935	E

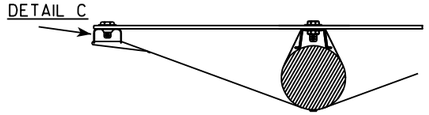
BRACE BANDING

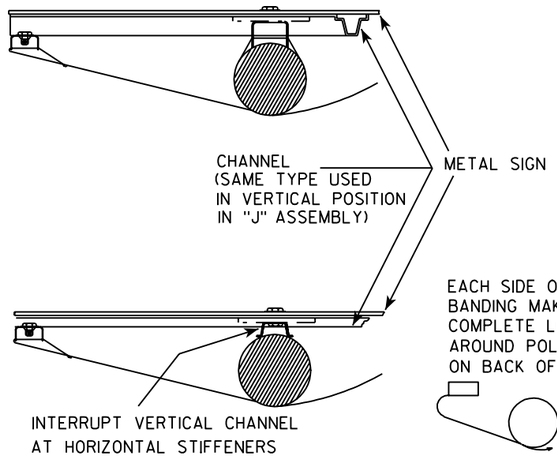


DETAIL C
CADMIUM PLATED STEEL BOLT
THROUGH BLACK BORDER



DETAIL C

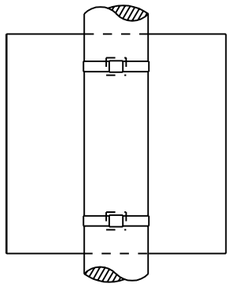


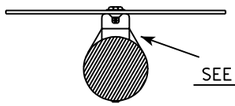


EACH SIDE OF BRACE
BANDING MAKES ONE
COMPLETE LOOP
AROUND POLE-SEAL
ON BACK OF POLE

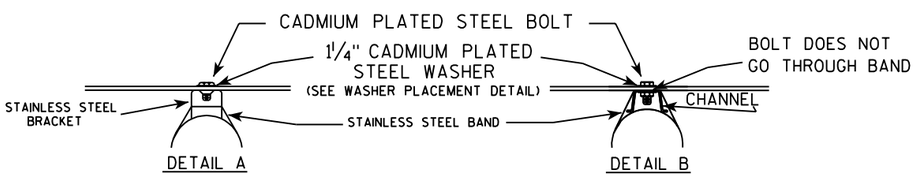
BRACKET BANDING

SINGLE SIGN





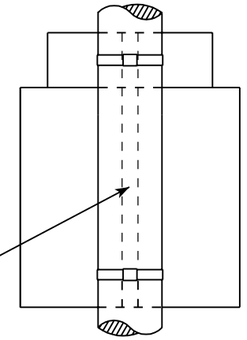
SEE DETAIL A



DETAIL A

DETAIL B

"J" ASSEMBLY

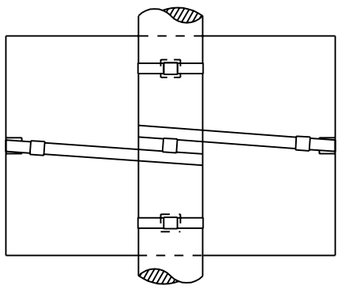


CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

SEE DETAIL B

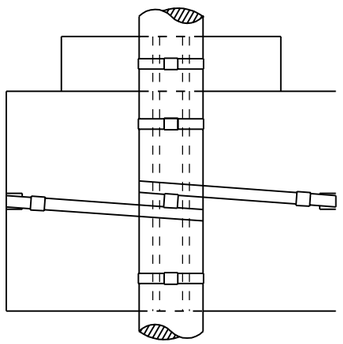
GENERAL NOTES

1. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

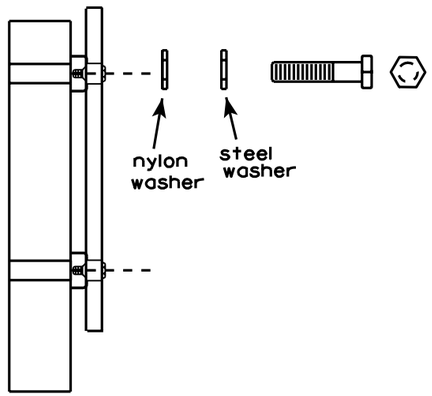


BRACE BANDING

BRACE BANDING SHALL BE TIGHTENED FIRMLY BUT NOT SO TIGHT AS TO APPRECIABLY CURVE FACE OF SIGN.



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

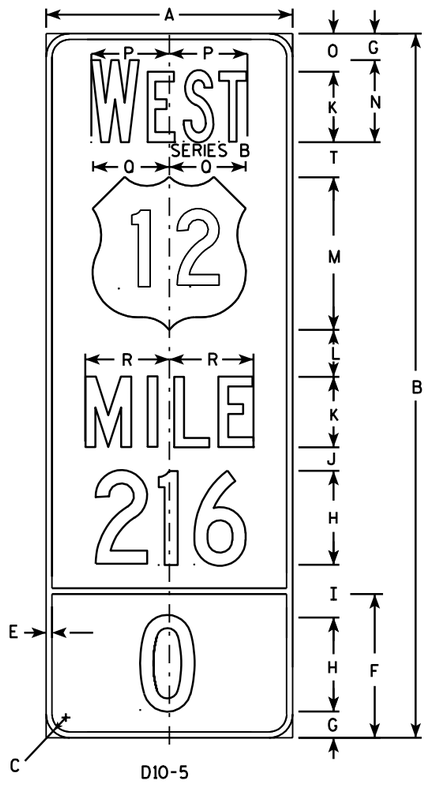
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

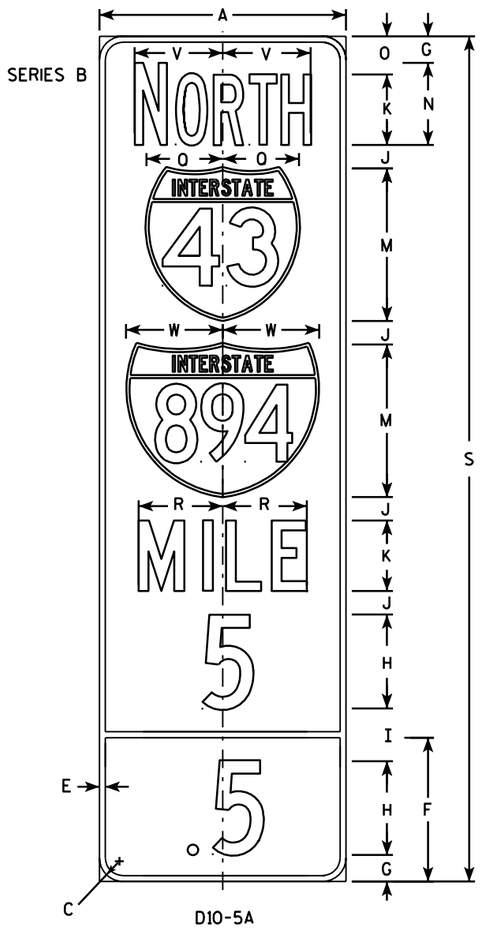
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/08/05 PLATE NO. A5-9.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 936	E



D10-5



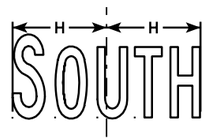
D10-5A

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLUE
   Message - WHITE
3. Interstate Shield Color
   Background - Top Red
   - Bottom Blue
   Message - White
4. Message Series - C or as noted on the Sign.
5. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
6. The decimal point is required for all digits except "0".
7. Optically adjust mileage numbers about the centerline of the sign to achieve proper balance.



SERIES B



SERIES B

Metric equivalent for this sign is:		Metric equivalent for this sign is:	
SIZE	D10-5	SIZE	D10-5A
1		1	
2		2	
3		3	
4	525 mm X 1500 mm	4	525 mm X 1950 mm
5	525 mm X 1500 mm	5	525 mm X 1950 mm

																										D10-5		D10-5A	
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2	Area sq. ft.	Area m2
1																														
2																														
3																														
4	21	60	1 ½		½	12 ¼	2 ¼	8	4 ½	2	6	4	13	7	3 ¼	6 ⅝	6 ½	7 ⅛	72	3		7 ½	8 ¼				8.75	0.79	10.5	1.03
5	21	60	1 ½		½	12 ¼	2 ¼	8	4 ½	2	6	4	13	7	3 ¼	6 ⅝	6 ½	7 ⅛	72	3		7 ½	8 ¼				8.75	0.79	10.5	1.03

STANDARD SIGN
D10-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/09/05 PLATE NO. D10-5.1

PROJECT NO:

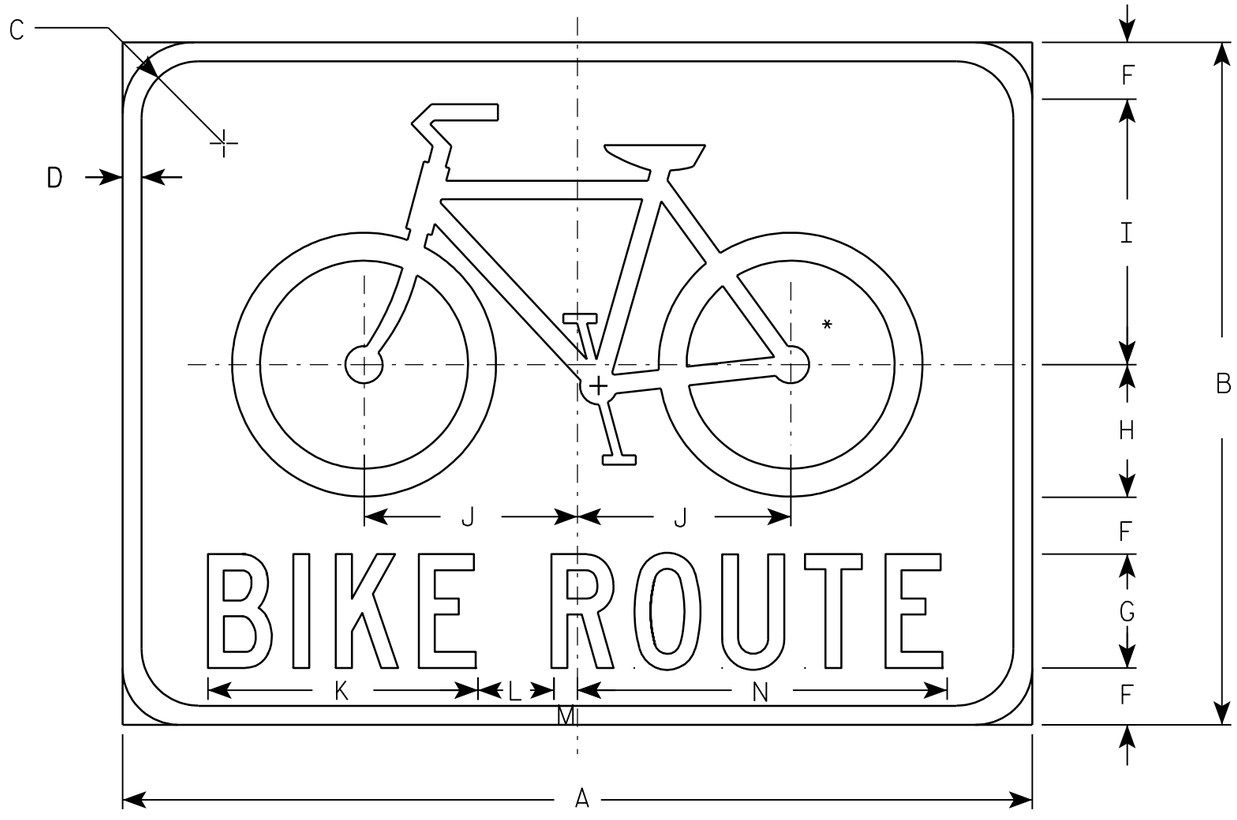
SHEET NO: 937 E

FILE NAME : C:\Users\Projects\tr_stdplate\D105.DGN PLOT DATE : 09-MAR-2005 08:35 PLOT BY : DOTSJA

WISDOT/CADDS SHEET 42

7

7



D11-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

* See W11-1 for symbol design

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 450 mm
3	750 mm X 600 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	18	1 1/2	1/2		1 1/2	3	3 1/2	7	5 5/8	7 1/8	2	5/8	9 3/4													3.0	0.27
3	30	24	1 1/4	5/8		2	4	4 3/4	9 1/4	7 1/2	9 1/2	2 5/8	7/8	13													5.0	0.45
4																												
5																												

STANDARD SIGN
D11-1

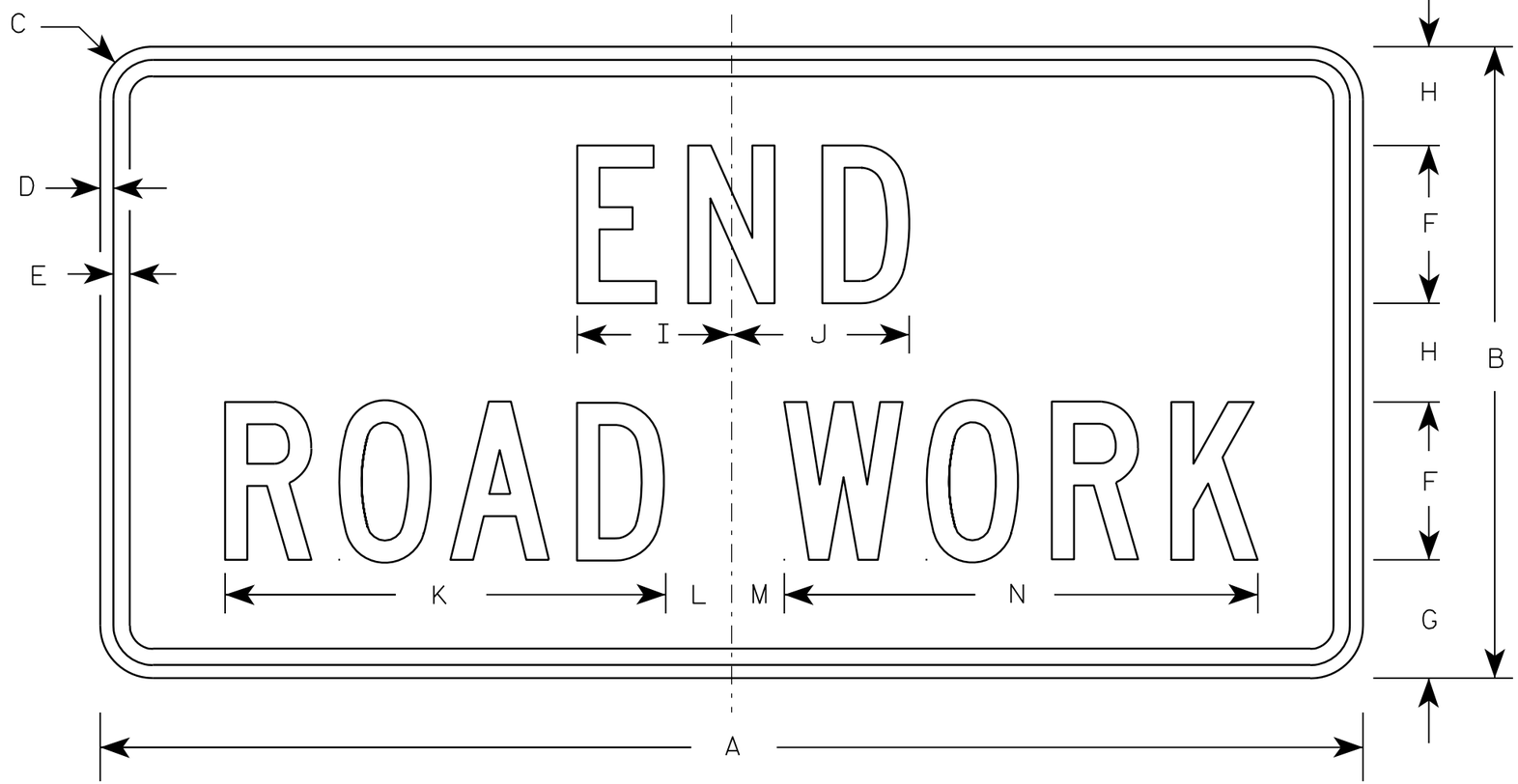
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/04 PLATE NO. D11-1.1

PROJECT NO:

SHEET NO: 938 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 939	E

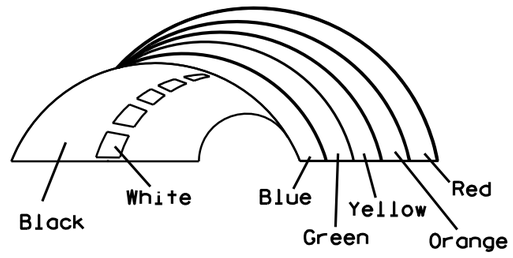


* VARIES

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - (See Note 5)
3. Message Series - (See Note 6)
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Border - Blue
   Line 1 - Red
   Line 2 - Black
   Line 3-5 - Blue
6. Line 1 - Dutch 8011L
   Line 2 - Series E
   Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

STANDARD SIGN
I55-56

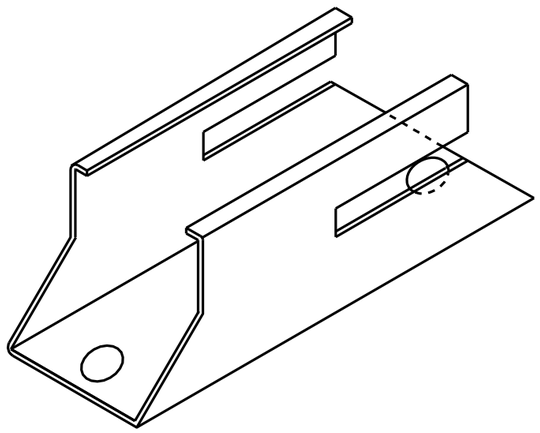
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 940

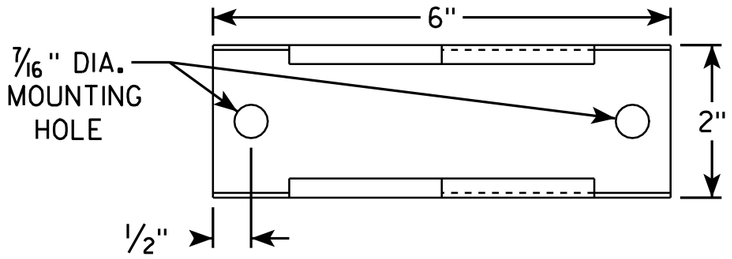
ISOMETRIC VIEW



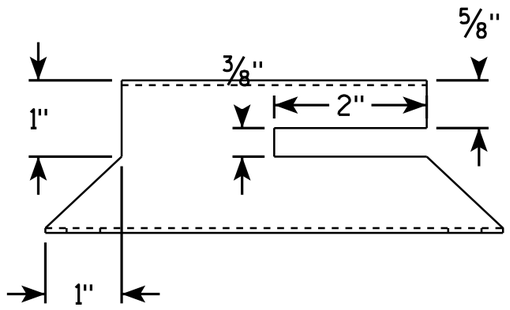
NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

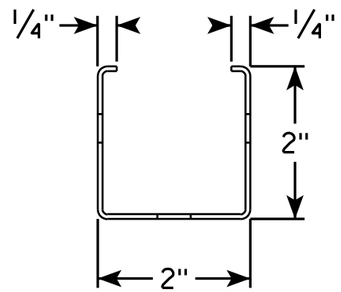
TOP VIEW



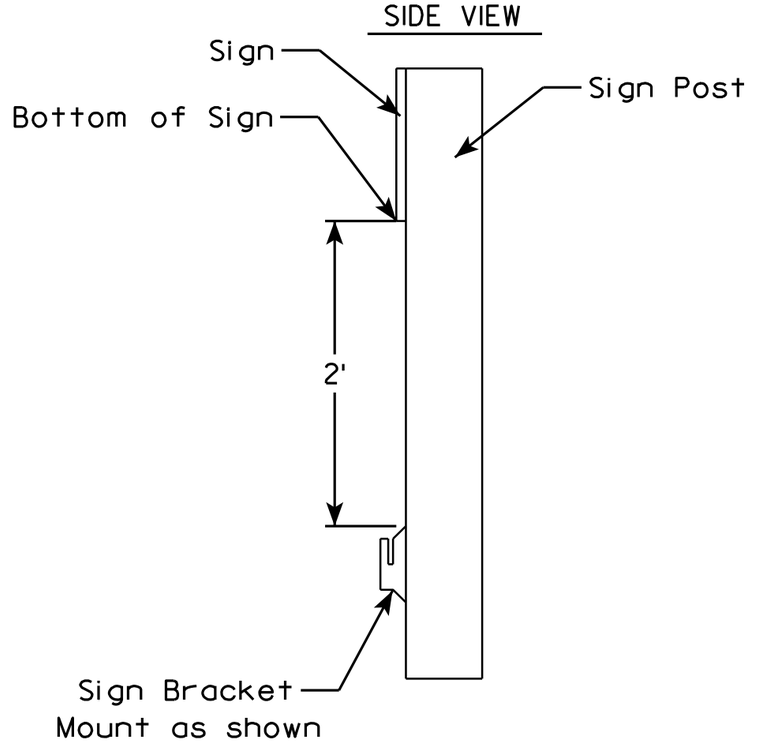
SIDE VIEW



END VIEW



SIDE VIEW



7

7

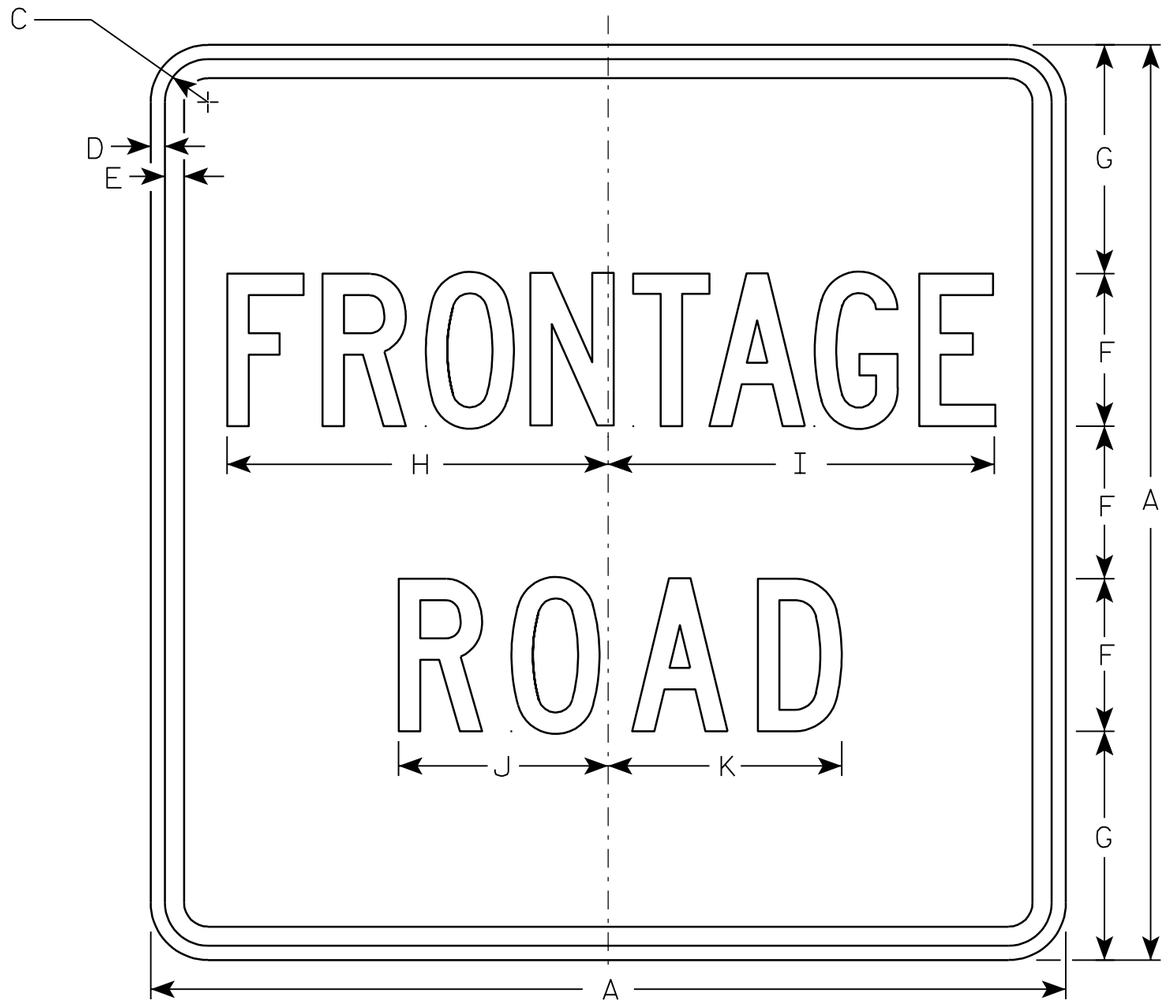
ROLLUP SIGN BRACKET I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 941	E



M1-95

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	600 mm X 600 mm
3	
4	900 mm X 900 mm
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	24		1 1/8	3/8	1/2	4	6	10	10 1/8	5 1/2	6 1/8																4.0	0.36
2	24		1 1/8	3/8	1/2	4	6	10	10 1/8	5 1/2	6 1/8																4.0	0.36
3																												
4	36		1 3/8	1/2	5/8	6	9	15	15 1/4	8 1/4	9 1/8																9.0	0.81
5																												

STANDARD SIGN
M1-95

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spange for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-95.6

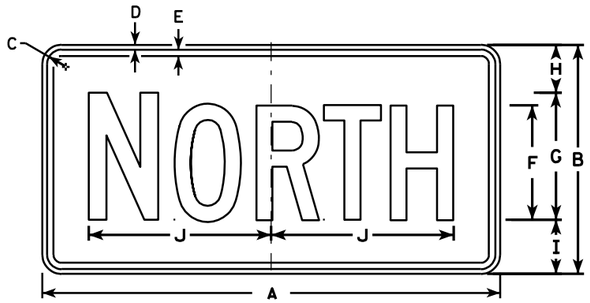
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 942	E

FILE NAME : C:\Users\Projects\tr_stdplate\M195.DGN PLOT DATE : 14-OCT-2005 09:14 PLOT BY : DITJPH PLOT NAME : PLOT SCALE : 3.973889:1.000000

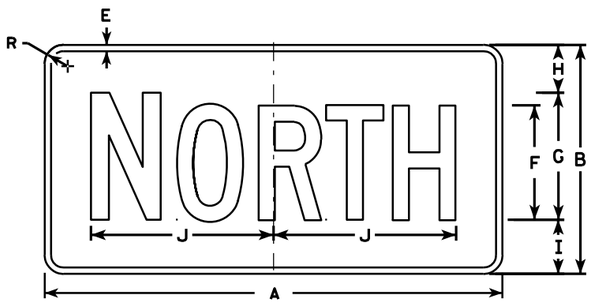
WISDOT/CADDS SHEET 42

7

7



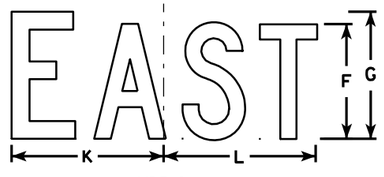
M3-1
MK3-1
MO3-1



MB3-1
MG3-1
MM3-1
MN3-1



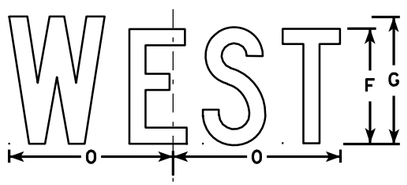
M3-2
MK3-2
MO3-2



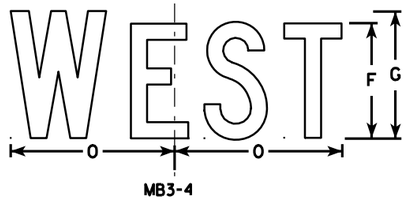
MB3-2
MG3-2
MM3-2
MN3-2

M3-3
MK3-3
MO3-3

MB3-3
MG3-3
MM3-3
MN3-3



M3-4
MK3-4
MO3-4



MB3-4
MG3-4
MM3-4
MN3-4

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective (Detour or temporary signs - Reflective) Message - Black
   MB3-1 thru MB3-4 Background - Blue Message - White - Type H Reflective (Detour or temporary signs - Reflective)
   MG3-1 thru MG3-4 Background - Green Message - White - Type H Reflective
   MK3-1 thru MK3-4 Background - Green Message - White - Type H Reflective
   MM3-1 thru MM3-4 Background - White - Type H Reflective Message - Green
   MN3-1 thru MN3-4 Background - Brown Message - White - Type H Reflective
   M03-1 thru M03-4 Background - Orange - Reflective Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

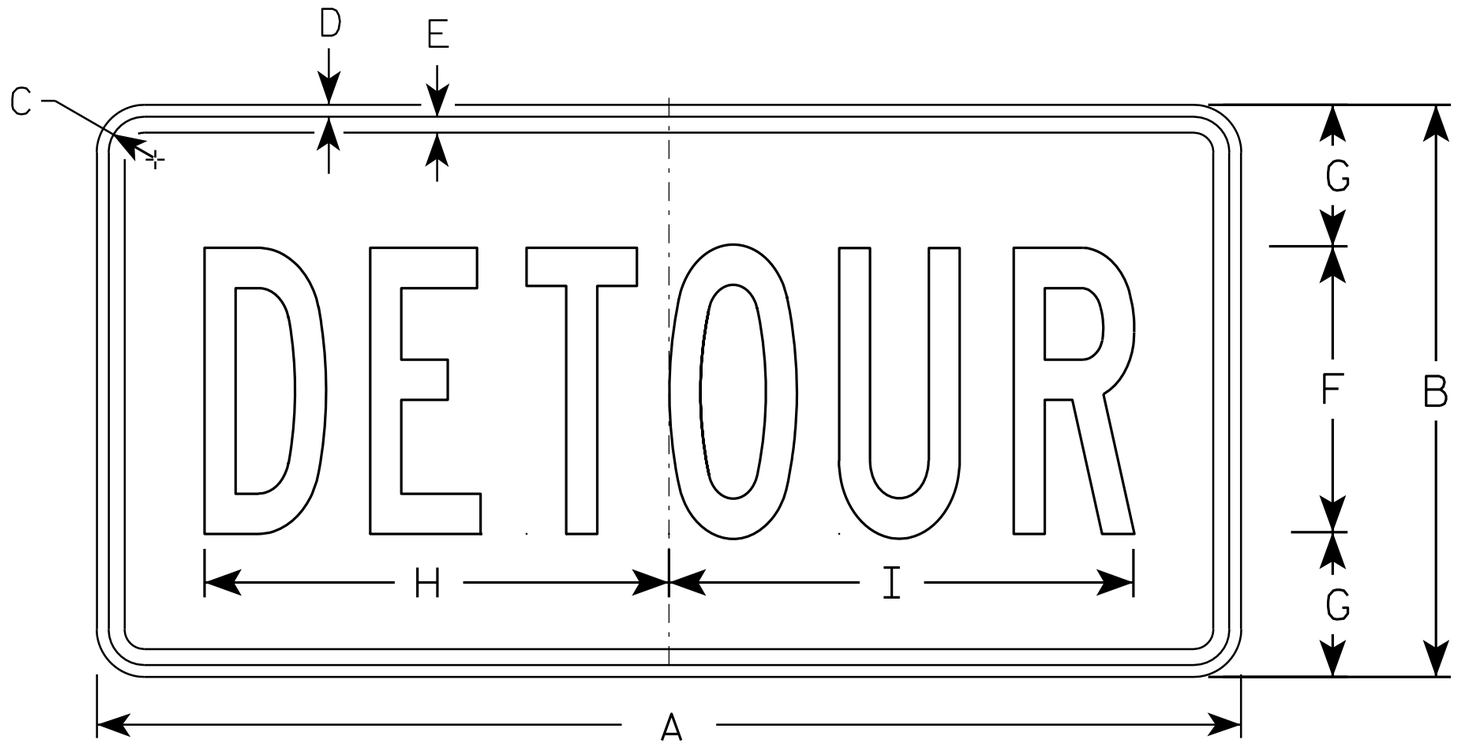
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 943	E



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

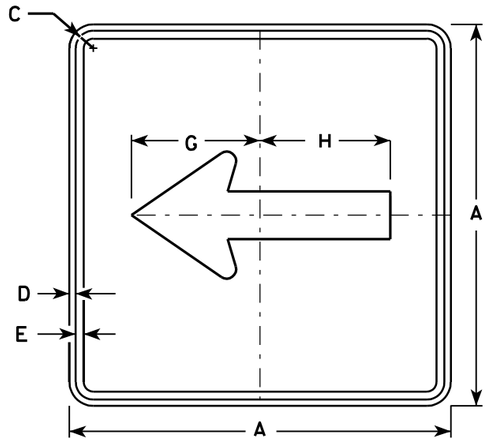
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

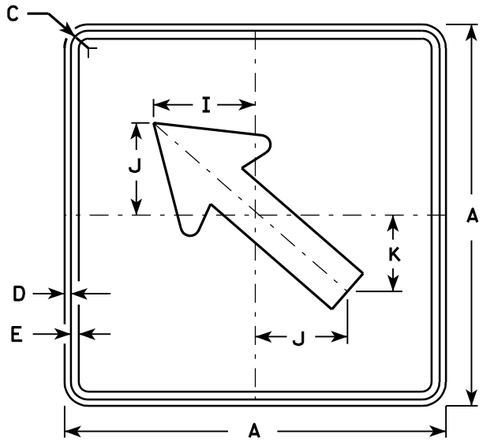
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

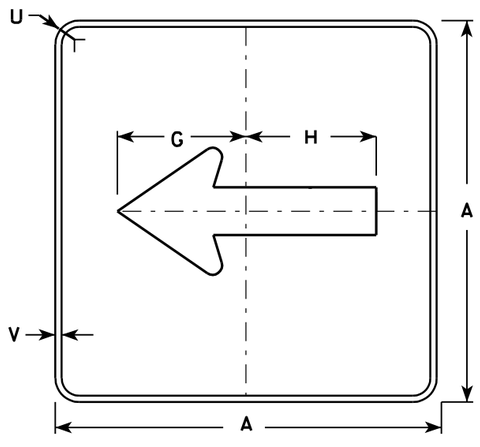
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 944	E



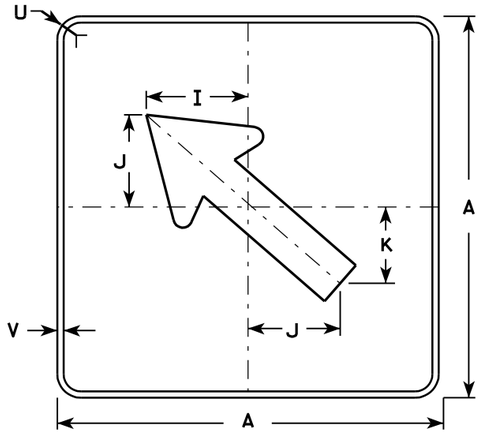
M6-1
MK6-1
MM6-1
MO6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MR6-2



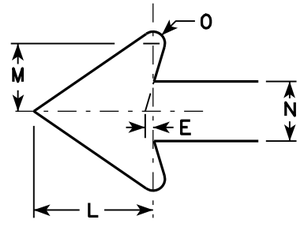
MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG6-1 and MG6-2 Background - Green
   Message - White - Type H Reflective
   MK6-1 and MK6-2 Background - Green
   Message - White - Type H Reflective
   MM6-1 and MM6-2 Background - White - Type H Reflective
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White - Type H Reflective
   MO6-1 and MO6-2 Background - Orange - Reflective
   Message - Black
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow - Type H Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

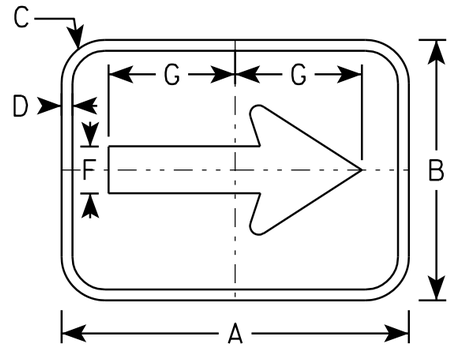
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

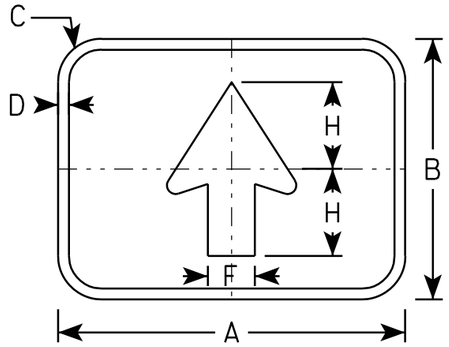
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-1.12

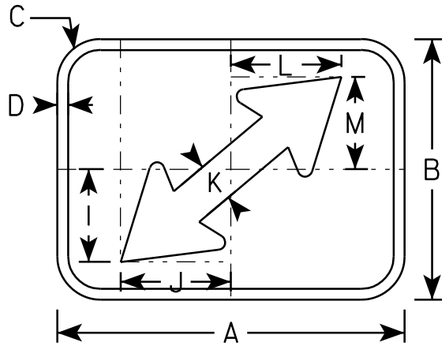
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 945	E



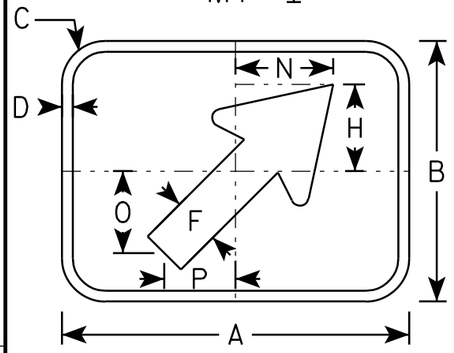
M7-1



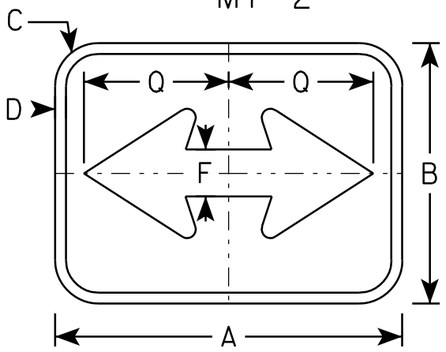
M7-2



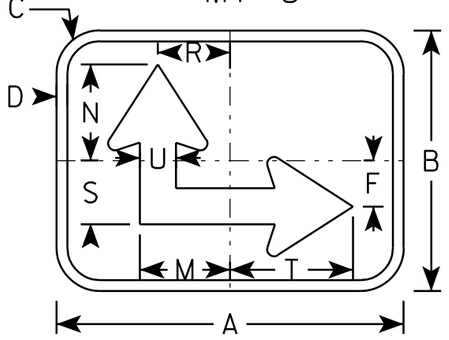
M7-3



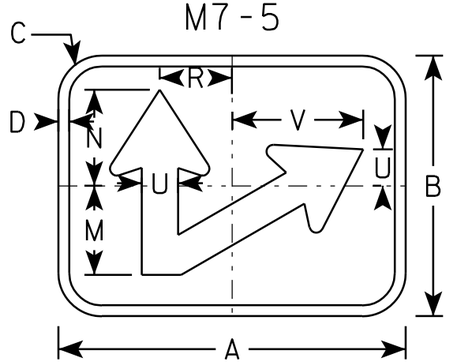
M7-4



M7-5



M7-6



M7-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message -White
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	12	9	1 1/2	3/8		1 5/8	4 3/8	3	3 1/4	3 3/4	1 3/8	3 7/8	3 1/8	3 3/8	2 7/8	2 1/2	5	2 1/2	2 1/4	4 1/4	1 1/4	4 1/2					.75
3																											
4																											
5																											

STANDARD SIGN
M7 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 05/04/10 PLATE NO. M7-1.1

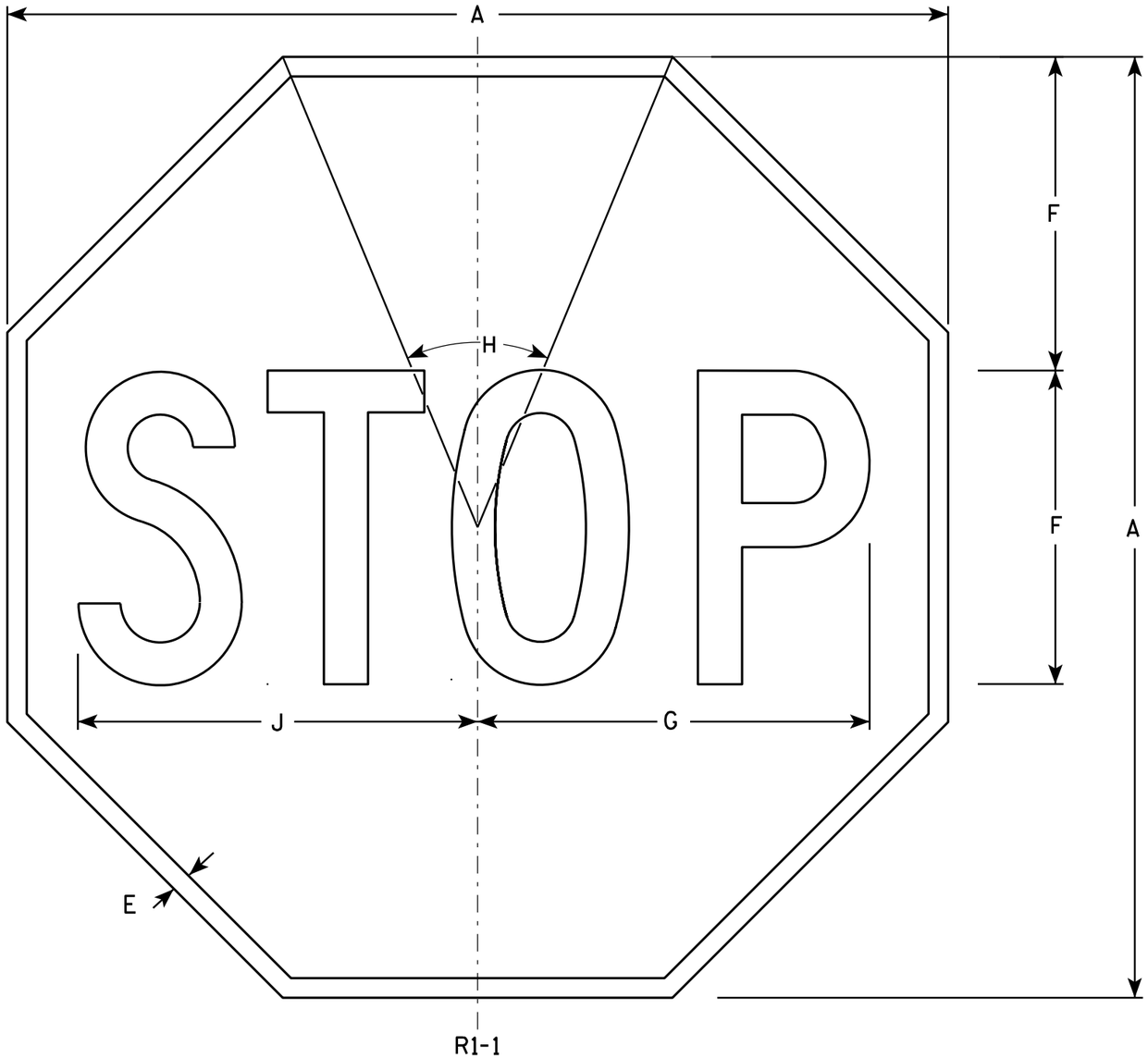
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 946	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M71.DGN PLOT DATE : 28-MAY-2010 08:14 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 5.237442:1.000000

WISDOT/CADDS SHEET 42

7

7



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

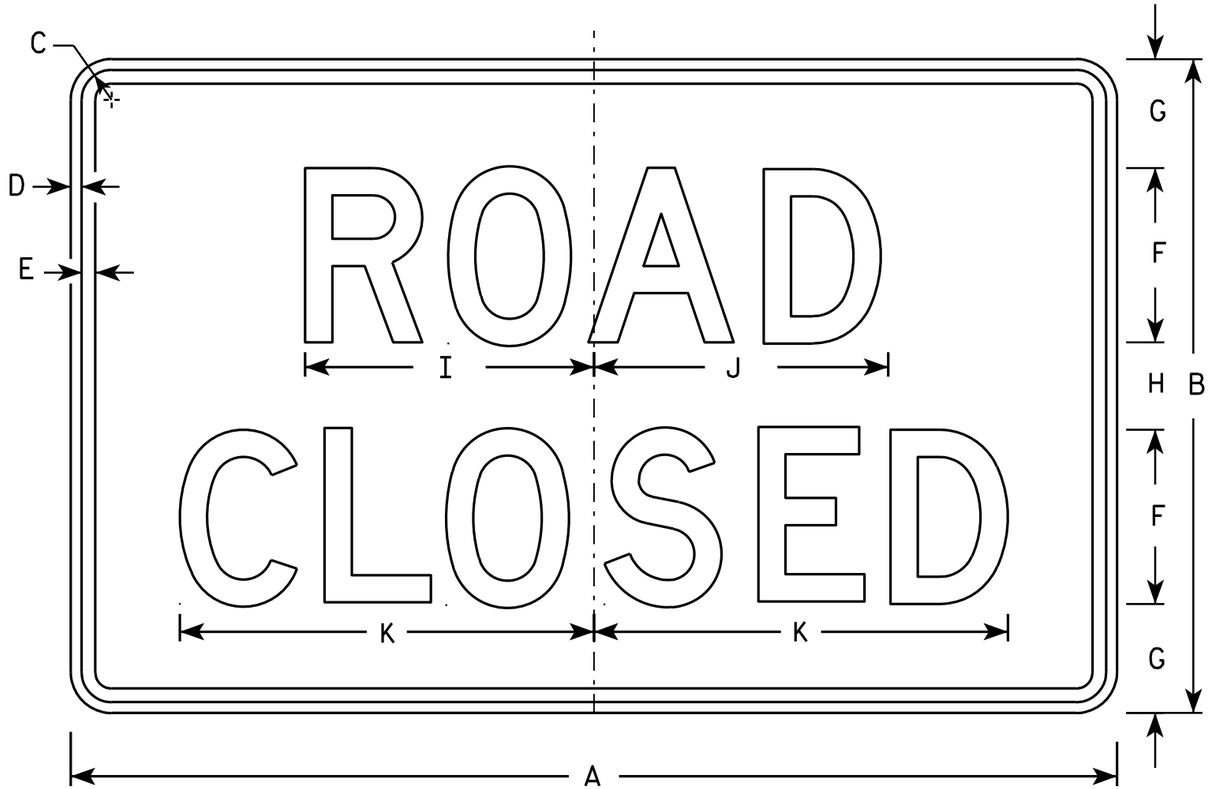
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

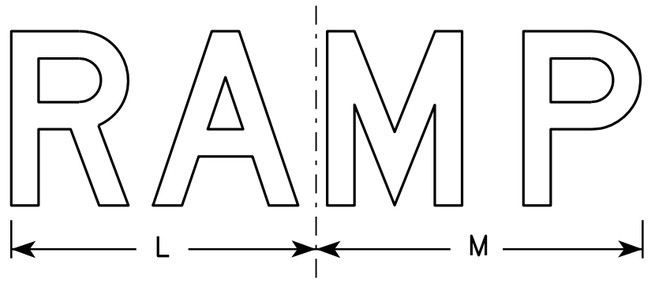
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 947	E



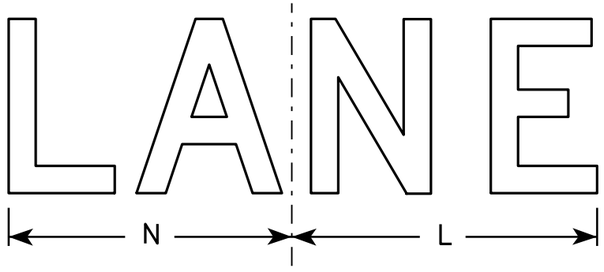
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

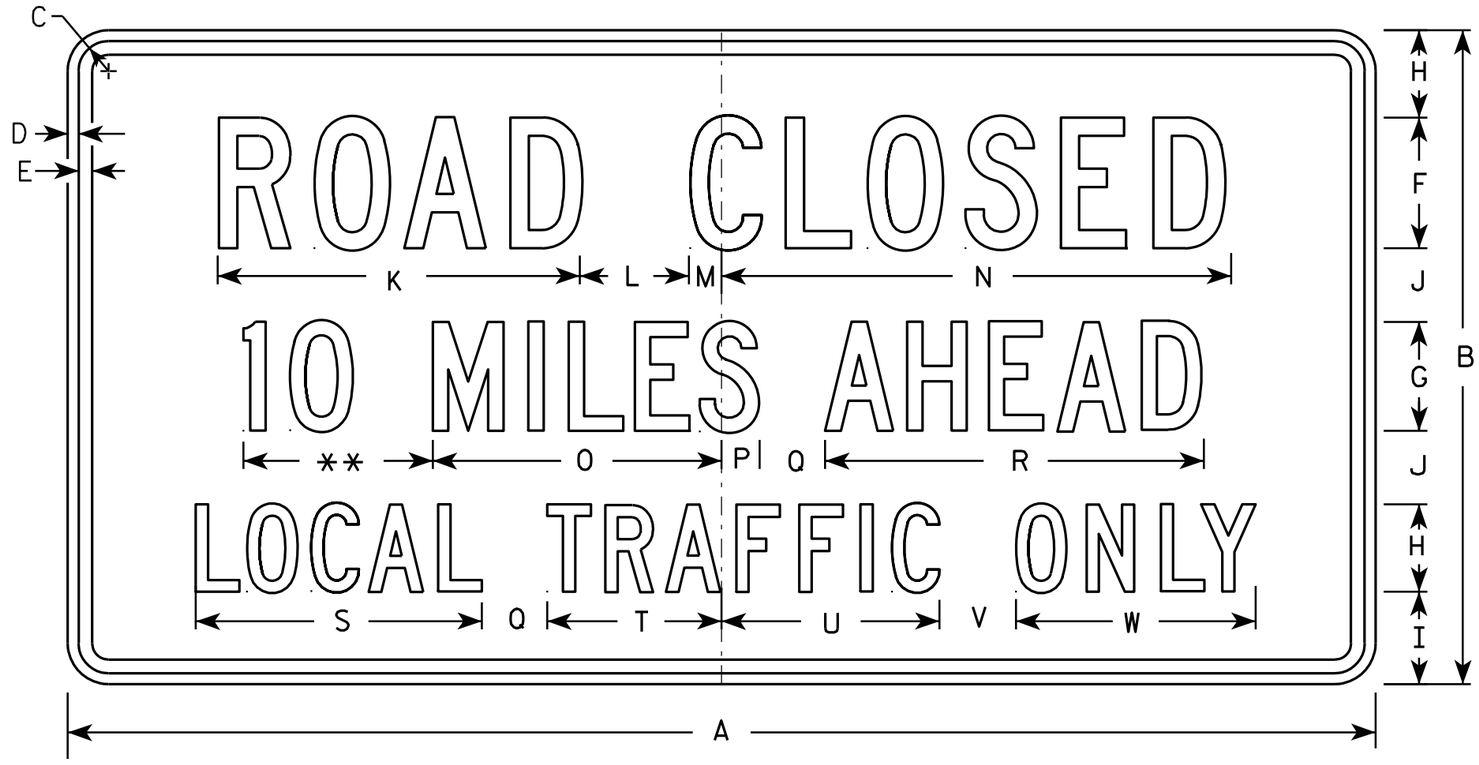
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 948	E



R11-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

** See Note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

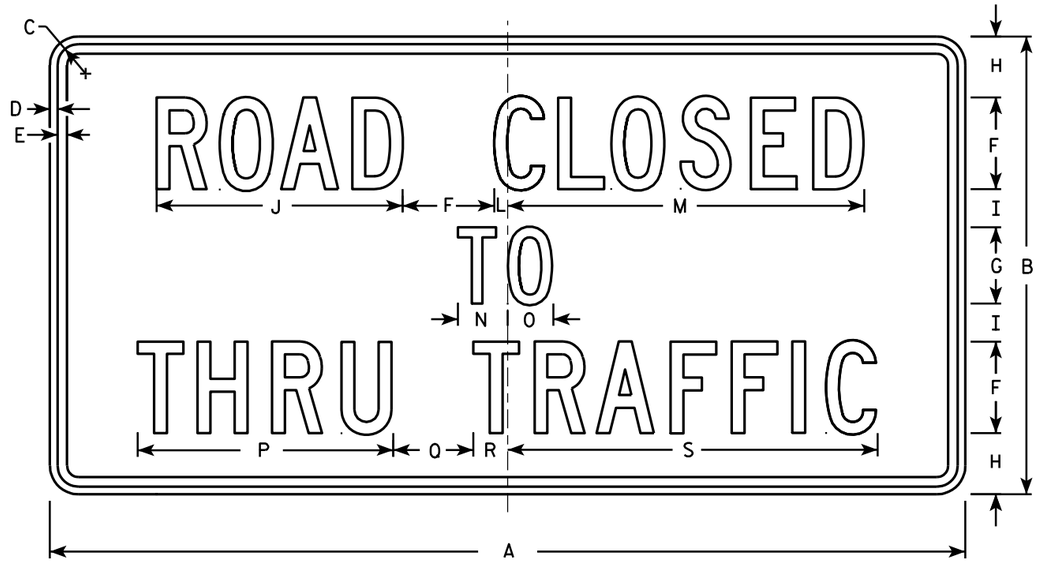
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 949	E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

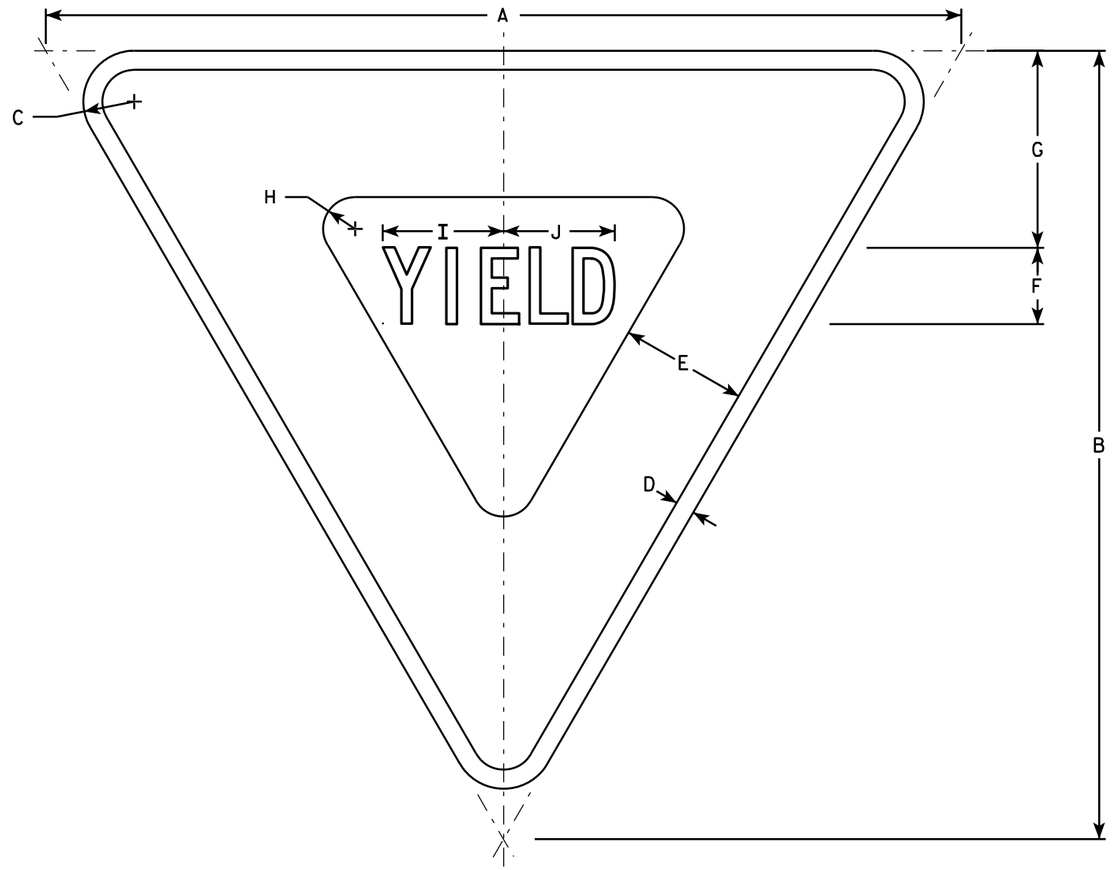
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 950 | E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6	24	21	1 1/2	3/8	3	2	4 3/4	7/8	3 1/4	3																	1.75
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

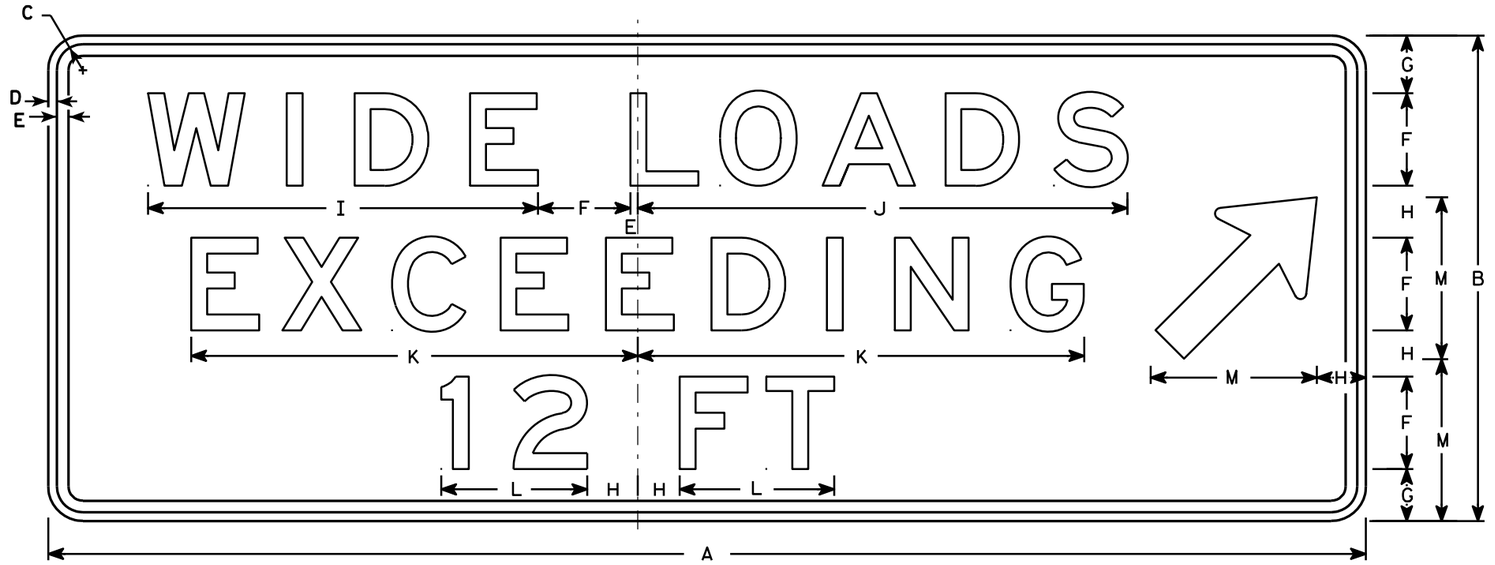
STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-2.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 951	E



R12-70B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	114	42	2 1/4	3/4	1	8	5	4	34	42	39	13	14														36.75
2M	114	42	2 1/4	3/4	1	8	5	4	34	42	39	13	14														36.75
3																											
4																											
5																											

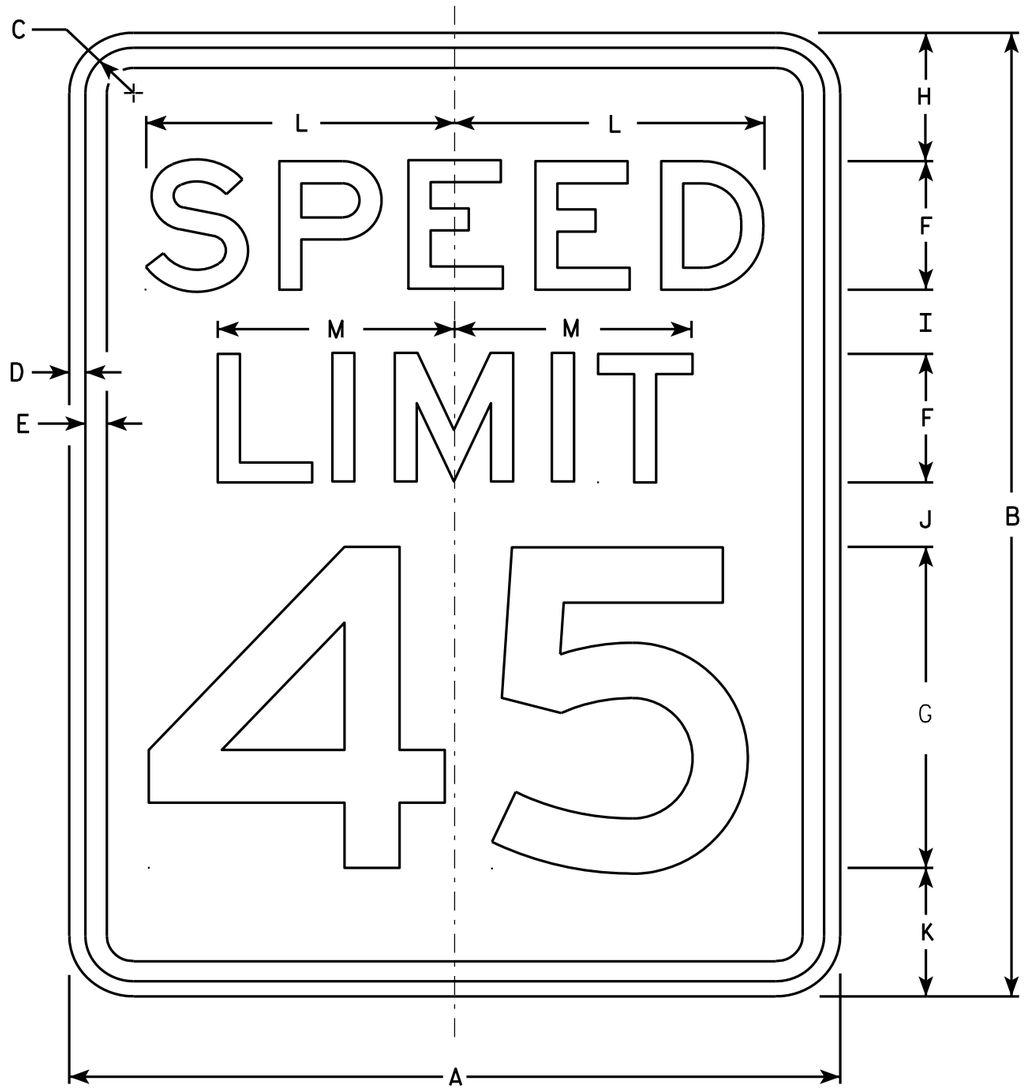
TYPICAL SIGN
R12-70B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R12-70B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 952	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

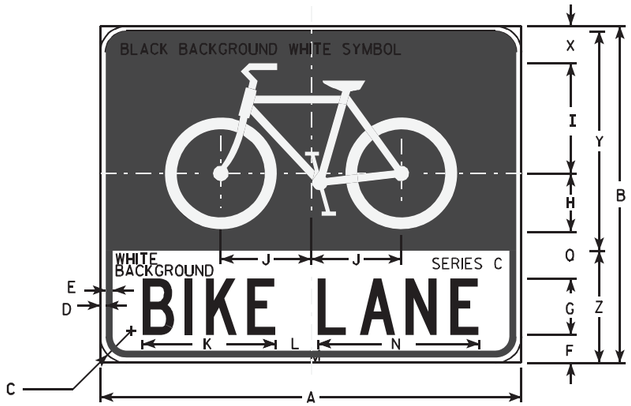
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

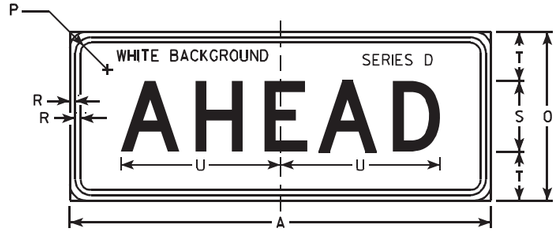
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

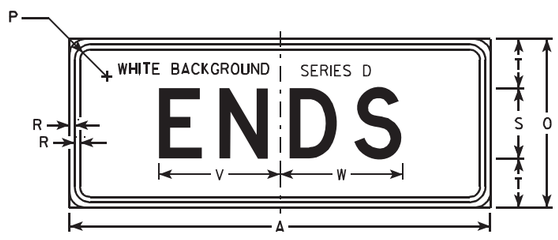
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 953	E



R3-17



R3-17ap



R3-17bp

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - AS SHOWN
   Message - BLACK
3. Message Series - C or as noted on the Signs.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	R3-17 Area sq. ft.	R3-17ap Area sq. ft.	R3-17bp Area sq. ft.
1																													
2S	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
2M	30	24	1 1/8	3/8	1/2	2	4	4 1/8	7 7/8	6 3/8	9 1/2	2 5/8	7/8	13	12	1 1/8	3 3/8	3/8	5	3 1/2	11 3/8	8 5/8	8 3/4	2 3/8	15 5/8	8	5.0	2.5	2.5
3																													
4																													
5																													

STANDARD SIGN
R3-17 & R3-17a&bp

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/12/2011 PLATE NO. R3-17.2

PROJECT NO:

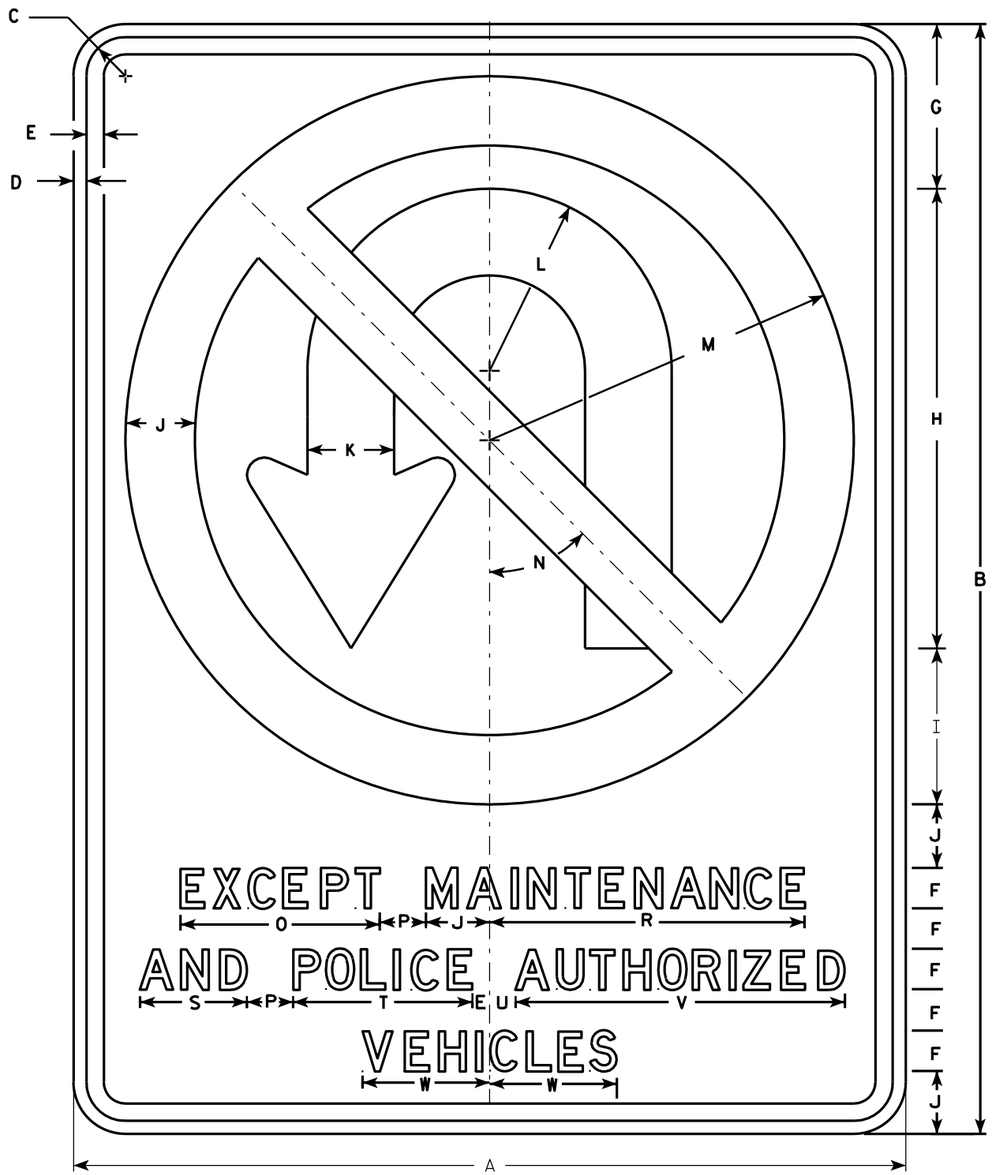
SHEET NO: E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R317.DGN PLOT DATE : 12-APR-2011 11:25 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

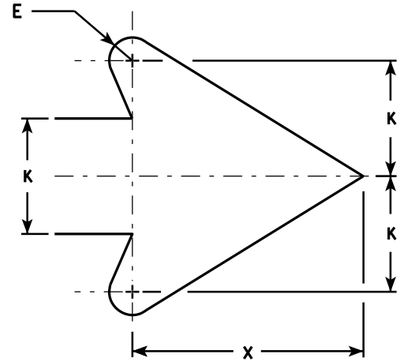
7



R3-4B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0
5	36	48	1 5/8	5/8	3/4	1 3/4	7 1/8	19 7/8	6 3/4	2 3/4	3 3/4	7 7/8	15 3/4	45°	8 5/8	2		13 5/8	4 5/8	7 3/4	1 1/8	14 1/4	5 1/2	7 5/8			12.0

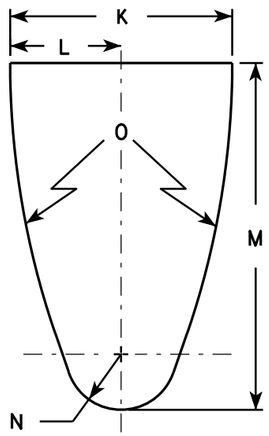
STANDARD SIGN
R3-4B

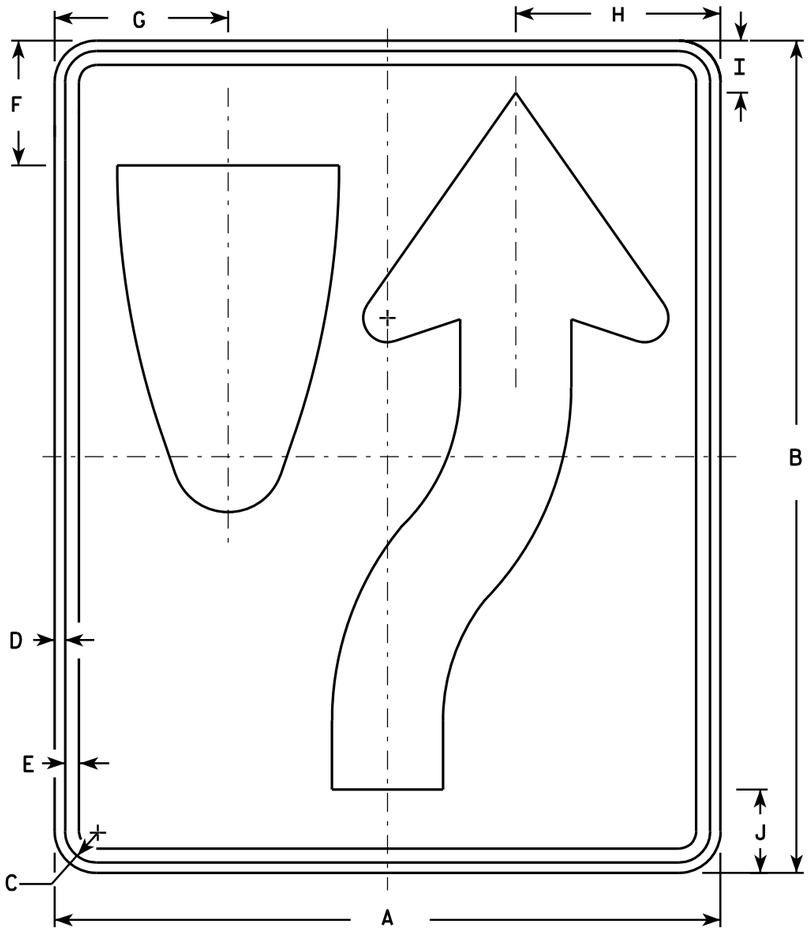
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/17/2011 PLATE NO. R3-4B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 955	E

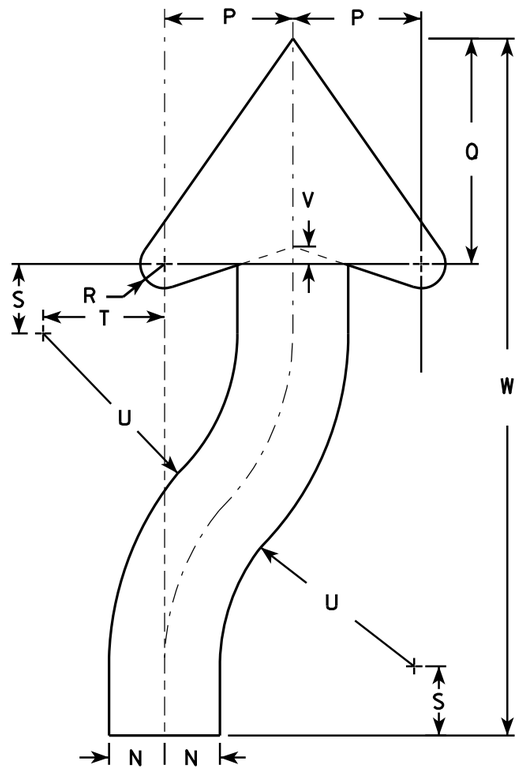




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

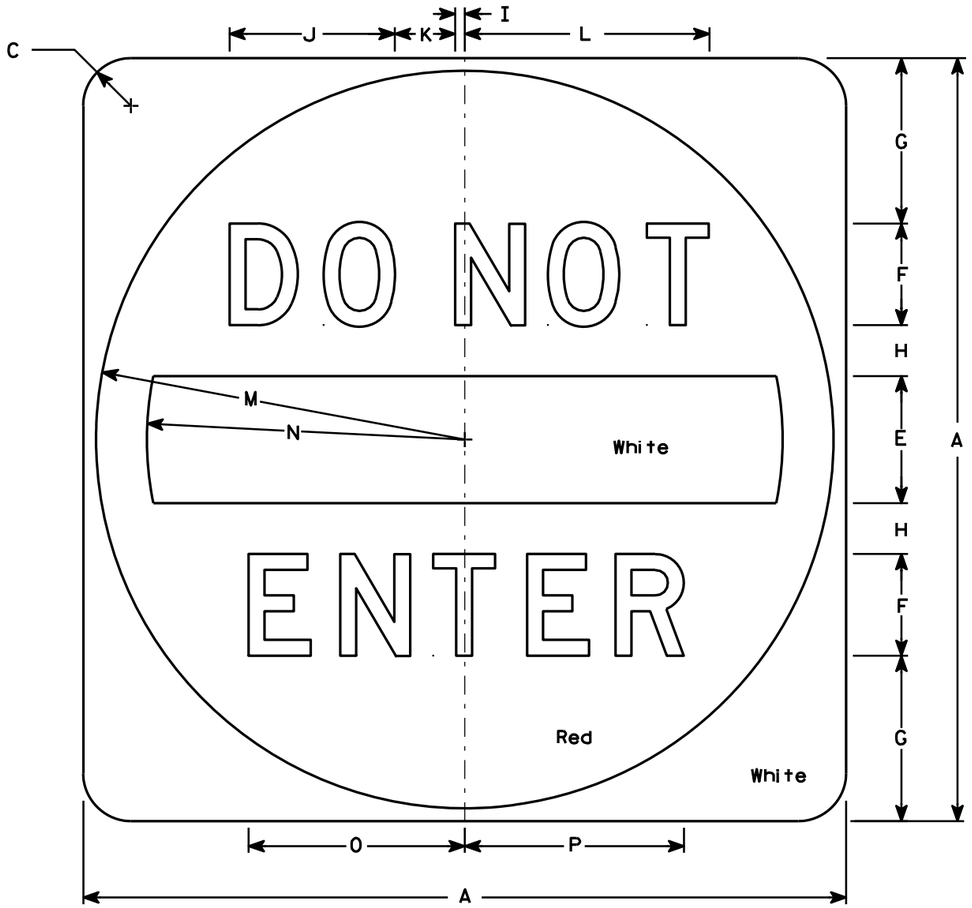
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 956	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 957 | E



R5-57

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Lines 1, 2, and 5 are Series C.
   Lines 3 and 4 are Series B.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0
5	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0

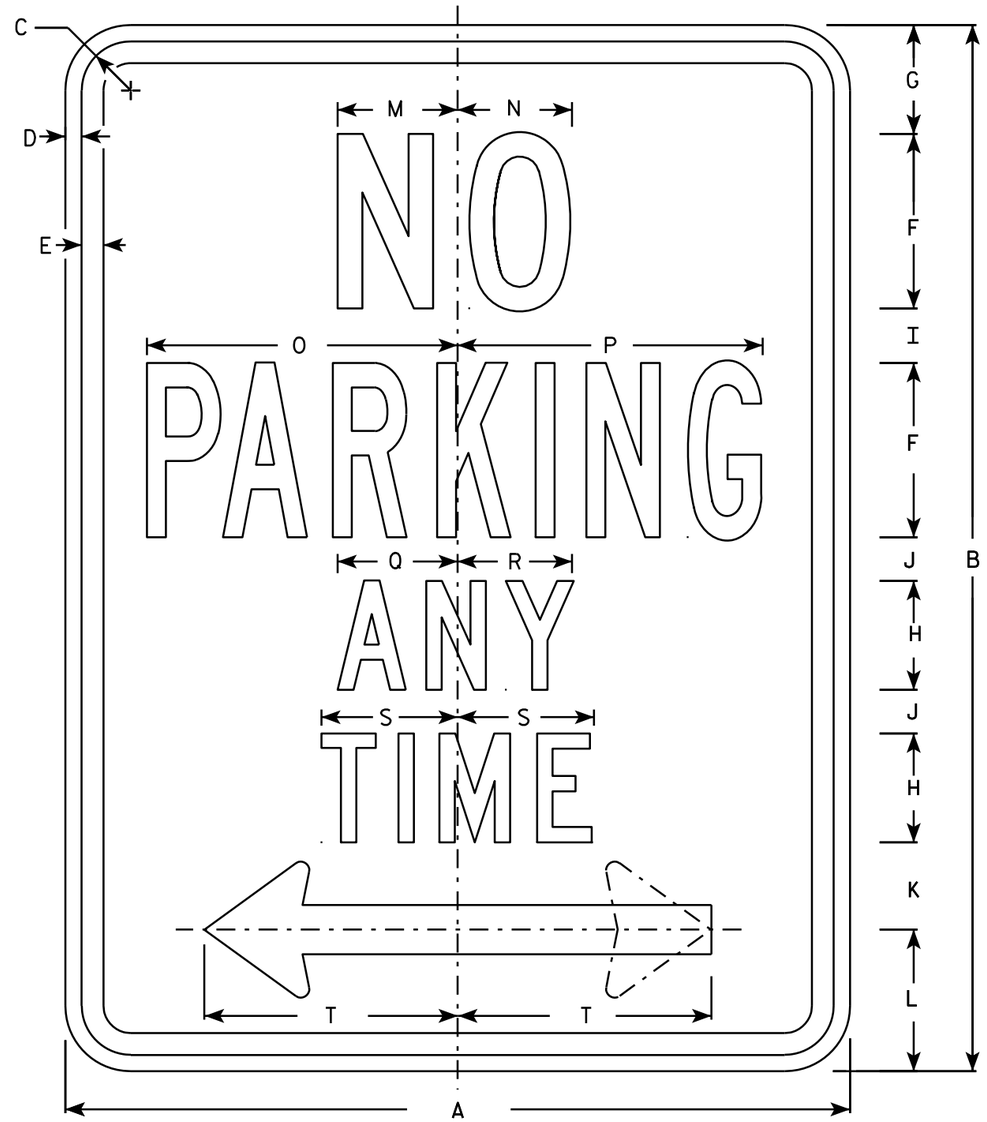
STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57.10

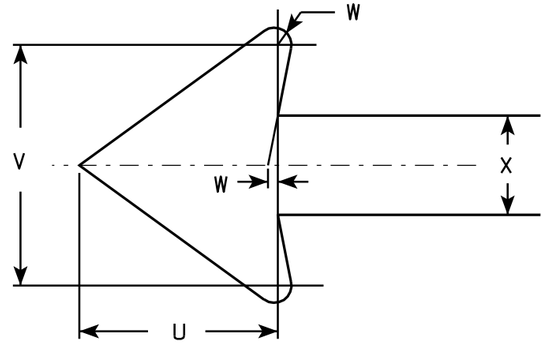
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 958	E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

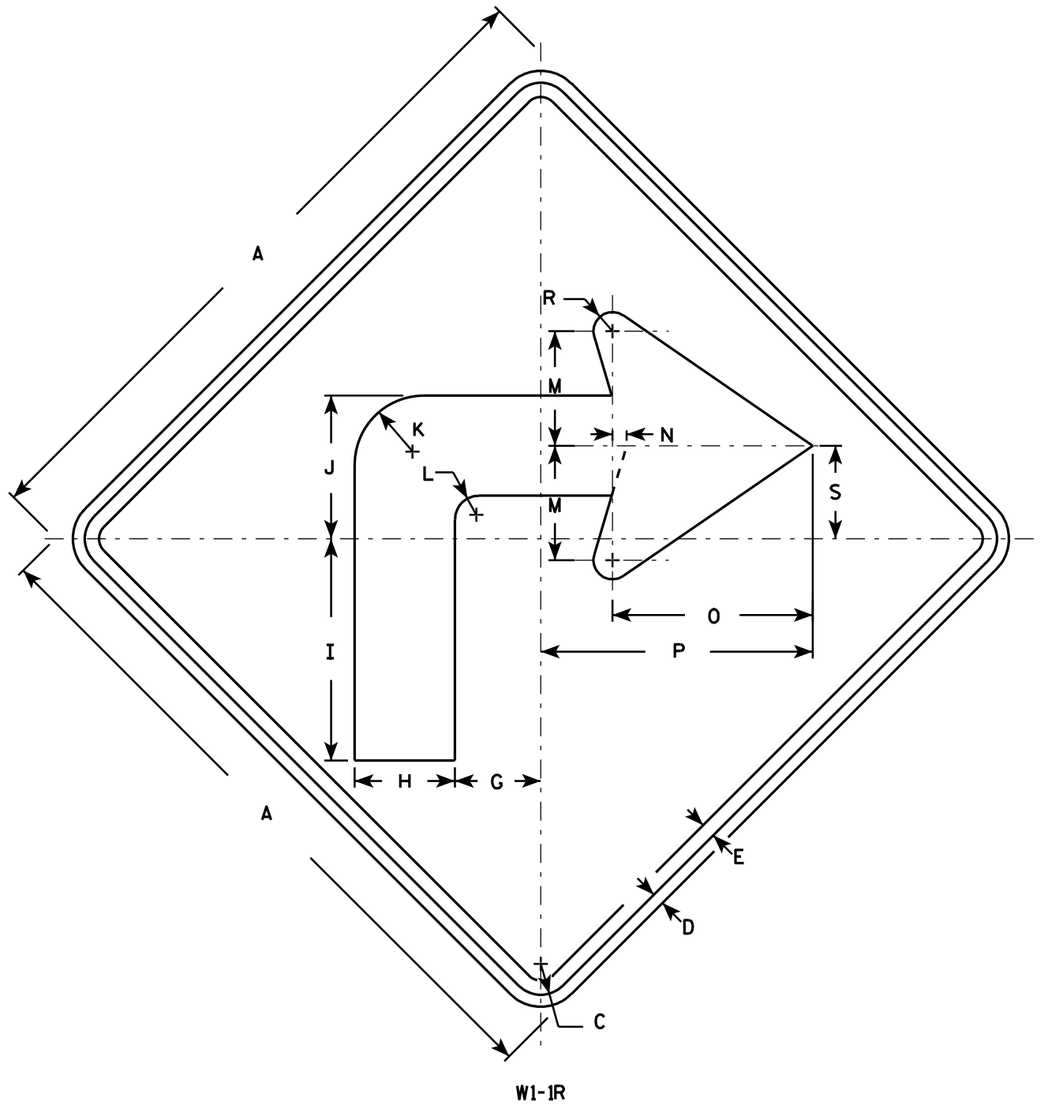
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 959	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

WISDOT/CADDS SHEET 42



W1-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

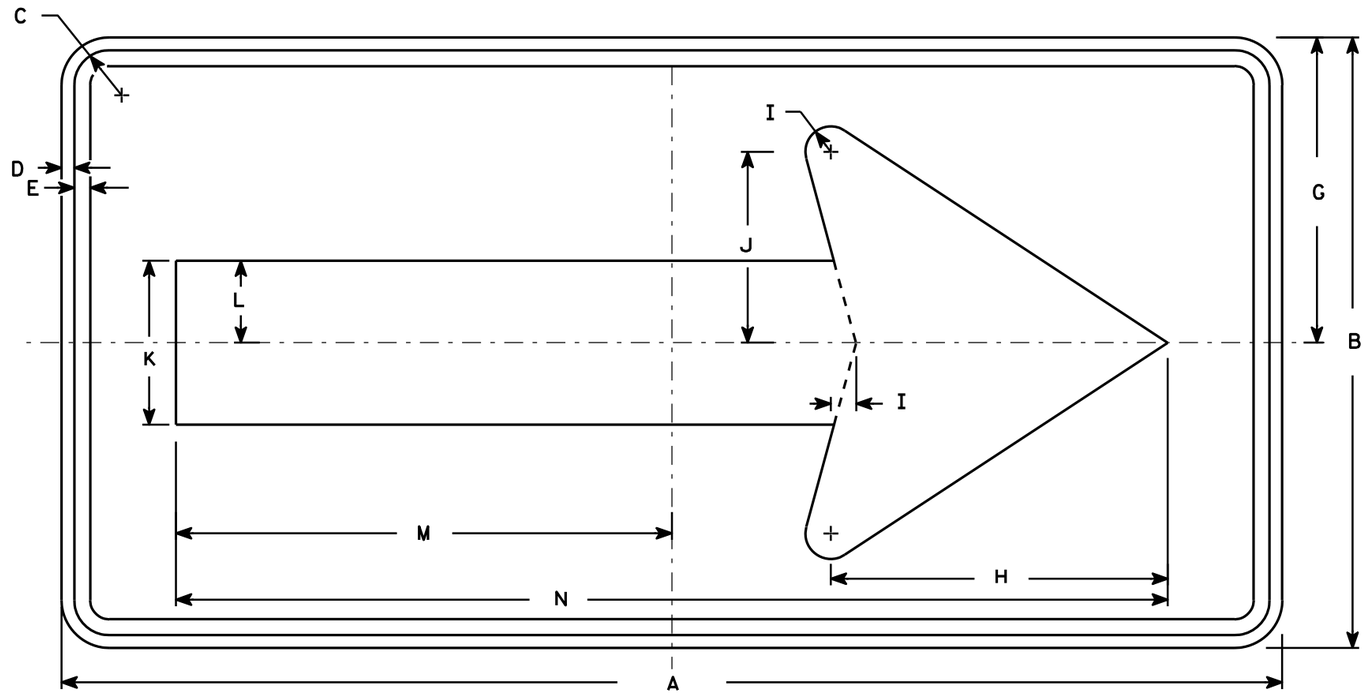
STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 960 | E



W1-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

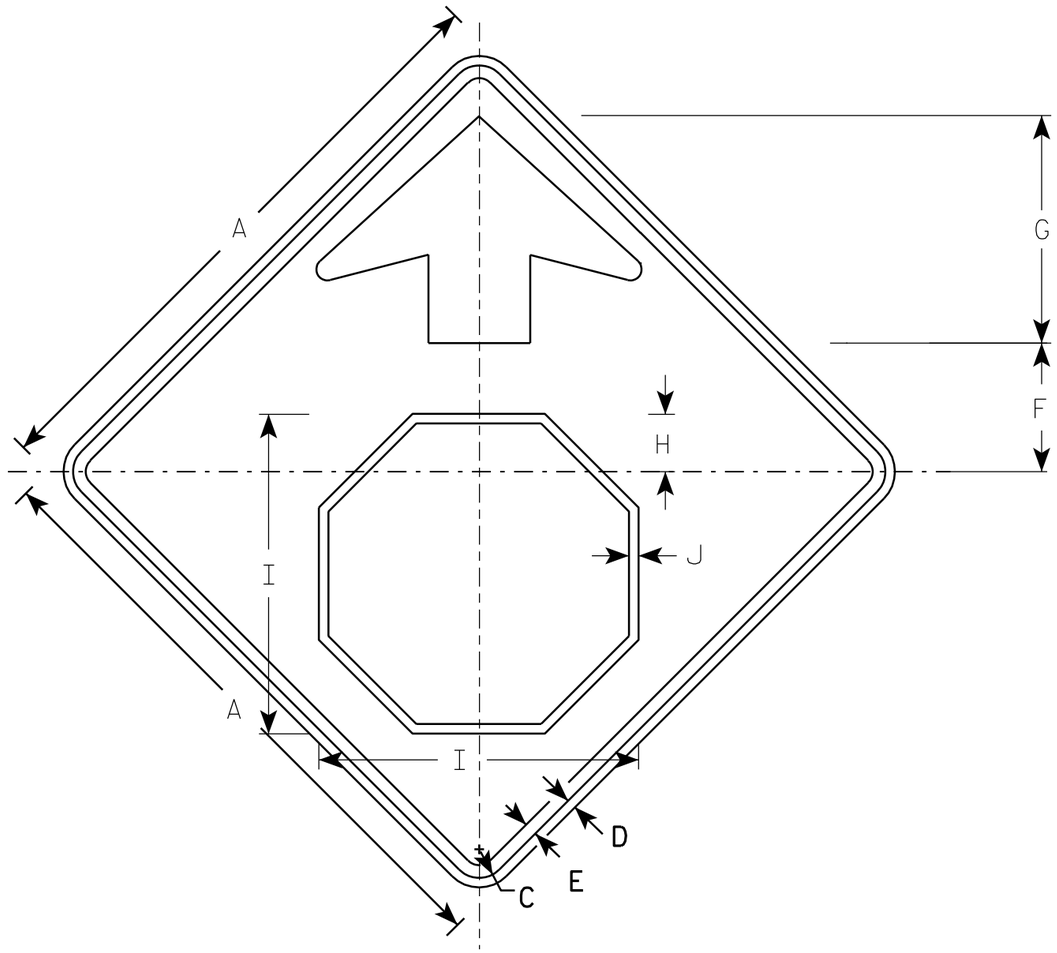
STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-6.8

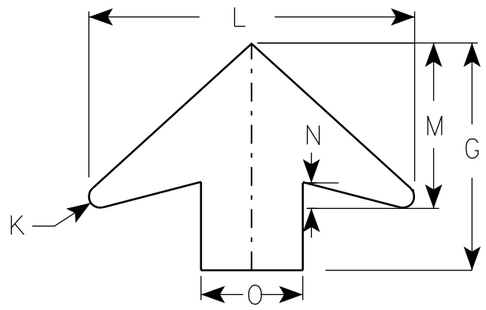
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 961



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

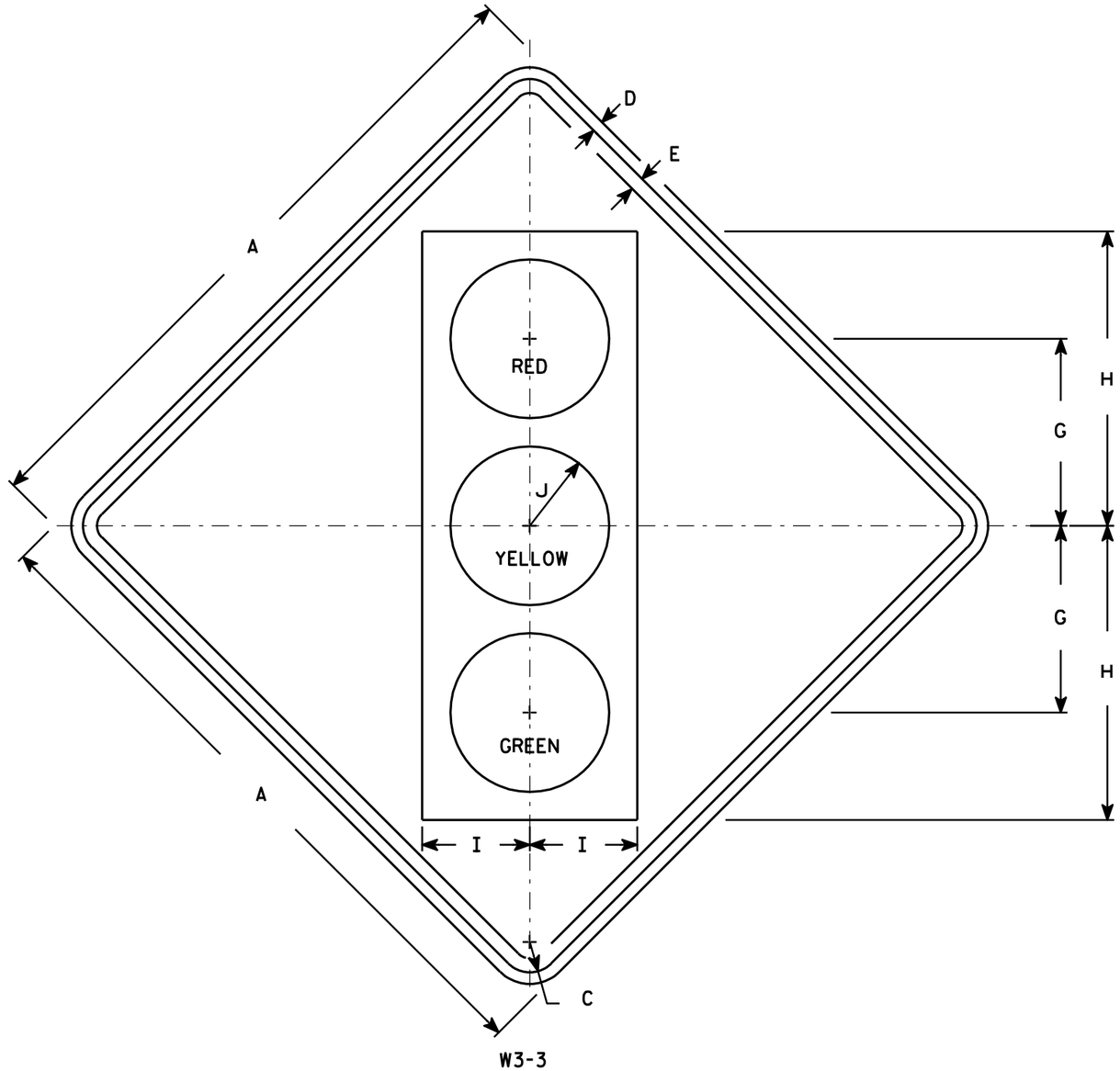
SHEET NO: 962 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN PLOT DATE : 07-JUN-2010 12:59 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

7



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

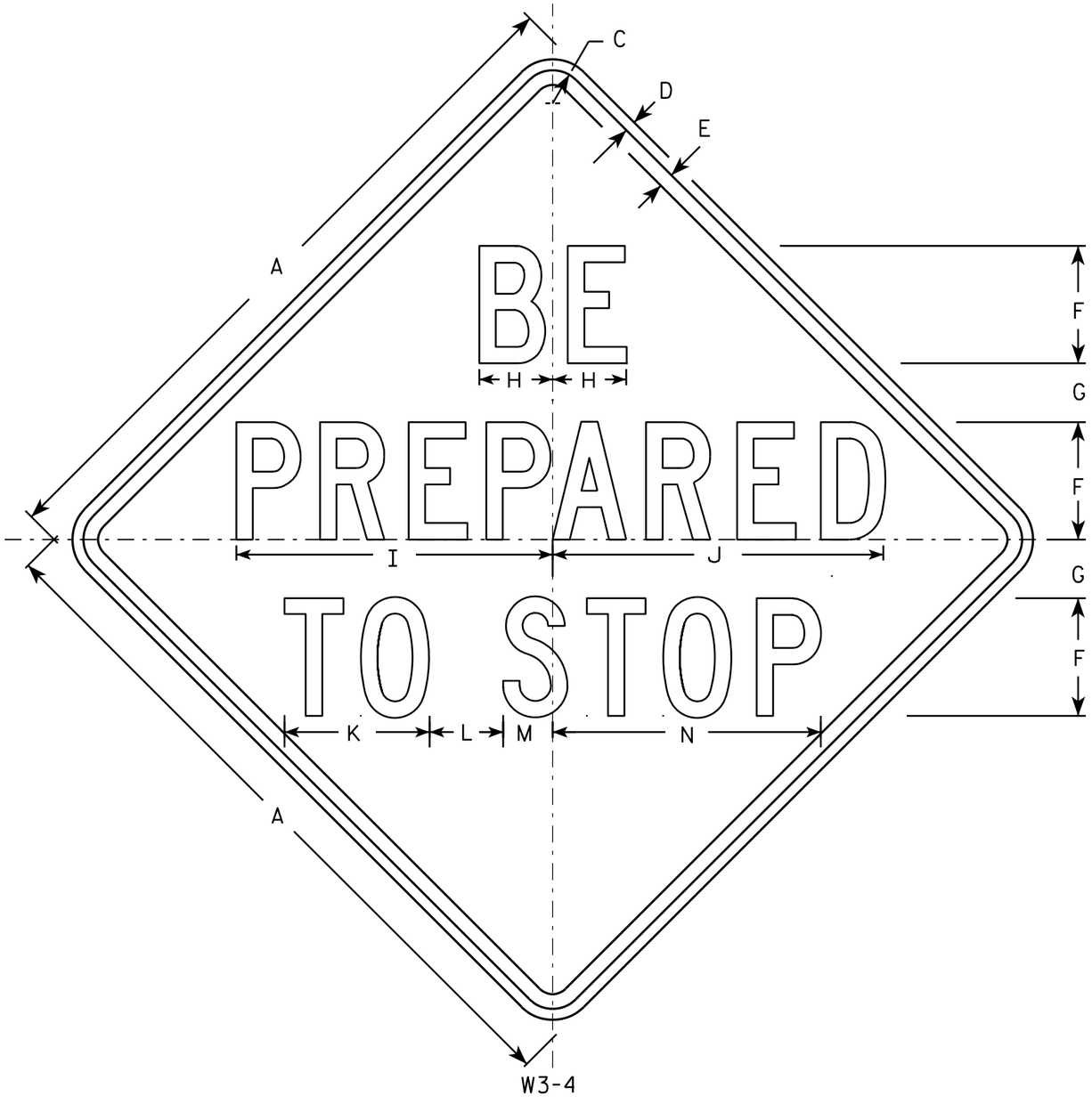
STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 963 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 1/8	3/8	1/2	5	2 1/8	3 1/8	13 1/4	14 1/8	6 1/8	3 3/8	2	11 1/2													6.25
2S	36		1 3/8	1/2	5/8	6	2 1/2	3 3/4	15 7/8	16 7/8	7 3/8	4	2 3/8	13 3/4													9.0
2M	36		1 3/8	1/2	5/8	6	2 1/2	3 3/4	15 7/8	16 7/8	7 3/8	4	2 3/8	13 3/4													9.0
3	36		1 3/8	1/2	5/8	6	2 1/2	3 3/4	15 7/8	16 7/8	7 3/8	4	2 3/8	13 3/4													9.0
4	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0
5	48		2 1/4	3/4	1	8	4	5	21 1/2	22 1/2	9 7/8	5	3 3/8	18 1/4													16.0

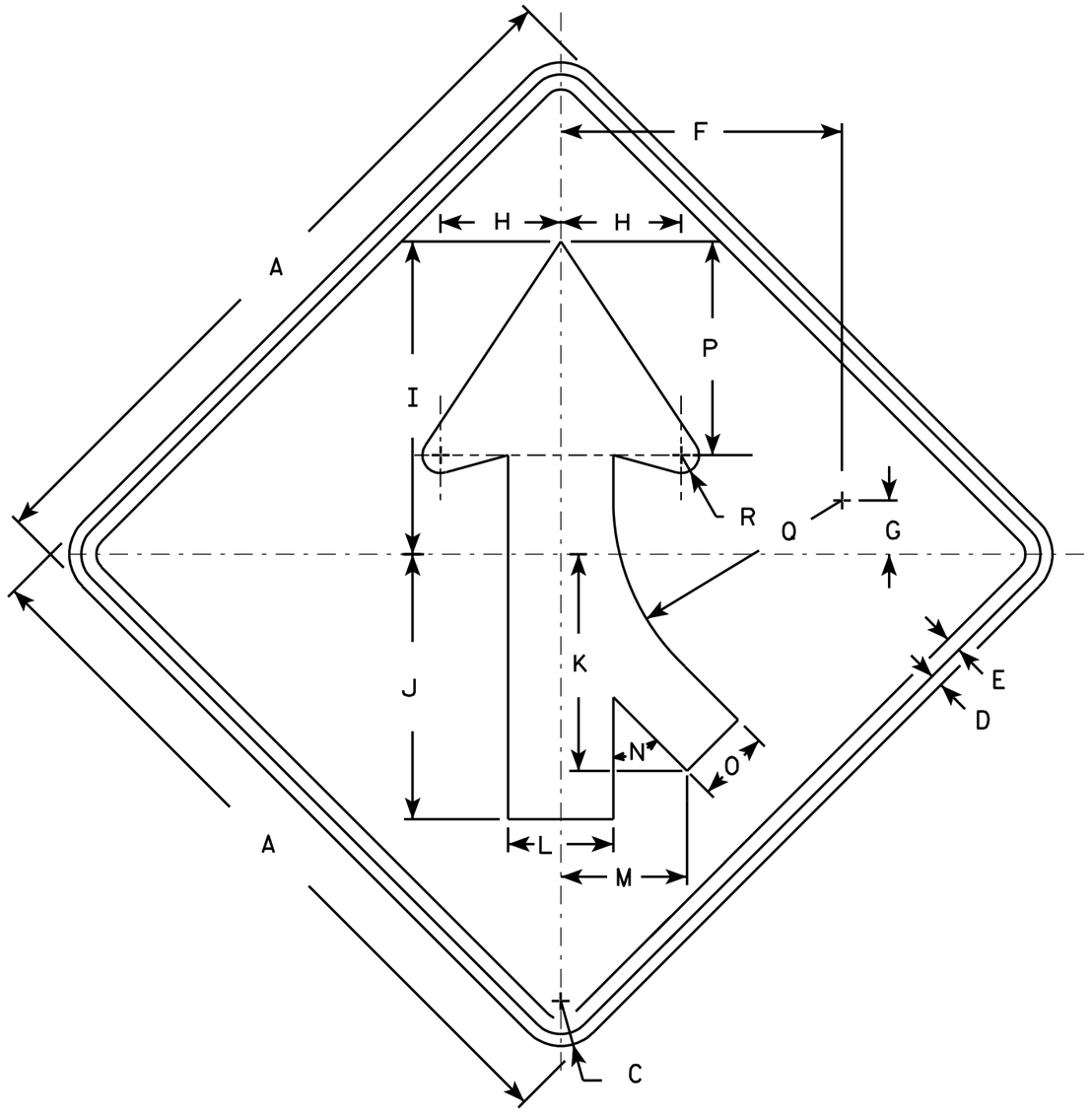
STANDARD SIGN
W3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W3-4.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 964	E



W4-1 R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25
2S	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2M	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

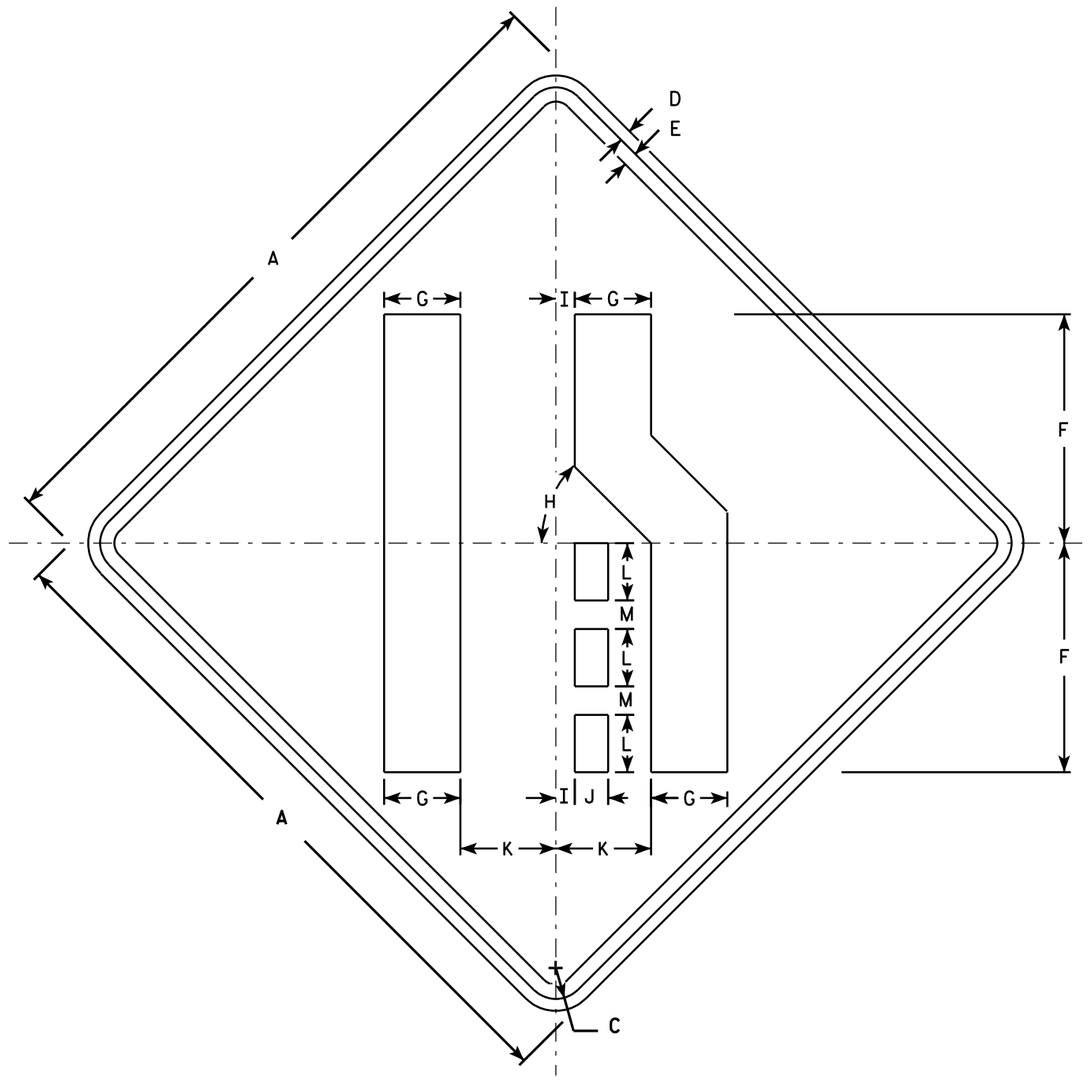
STANDARD SIGN
W4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/21/11 PLATE NO. W4-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 965	E



W4-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

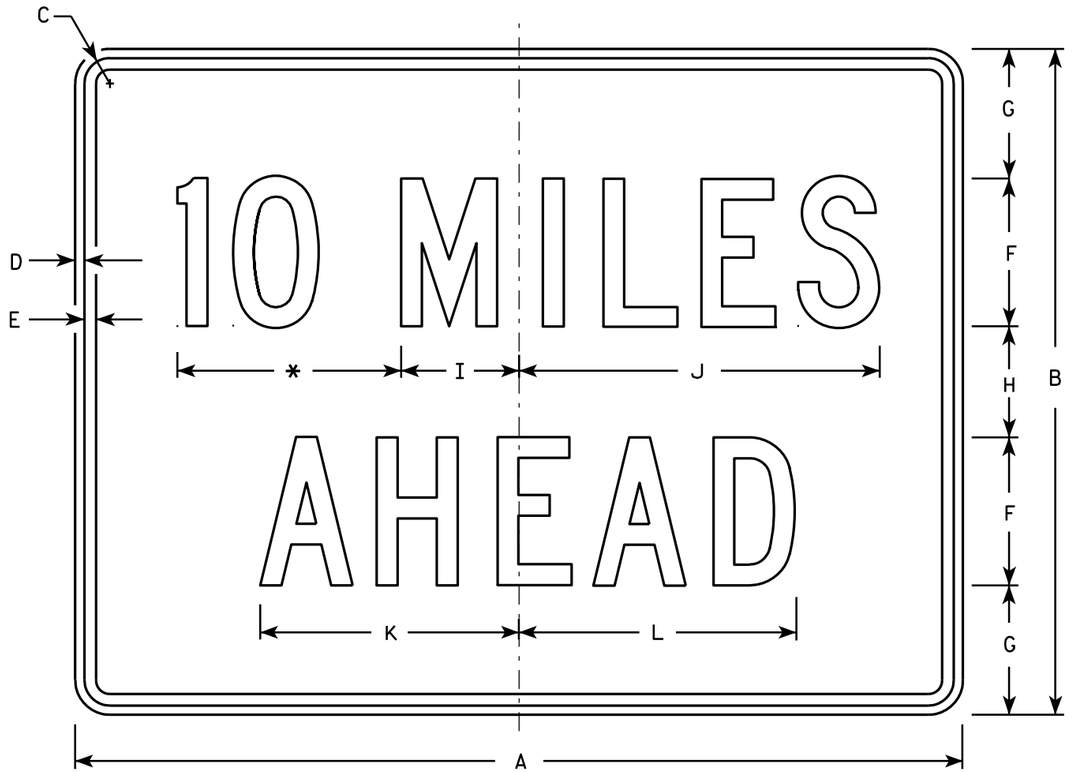
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

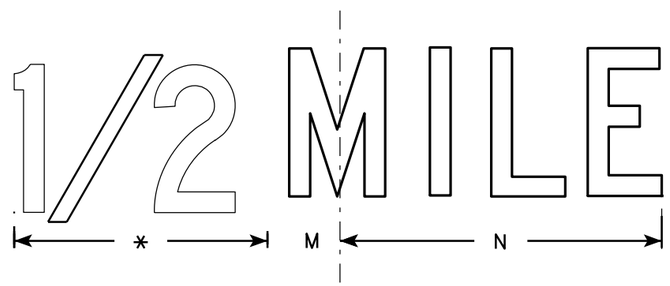
DATE 2/29/2012 PLATE NO. W4-2.13

PROJECT NO:

SHEET NO: 966 E



W57-52



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	1/2	4	3 1/2	3	3 1/8	9 3/4	7	7 1/2	1 3/8	8 3/4													3.0
2S	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	13													6.0
2M	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	13													6.0
3	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	13													6.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	17 3/8													12.0

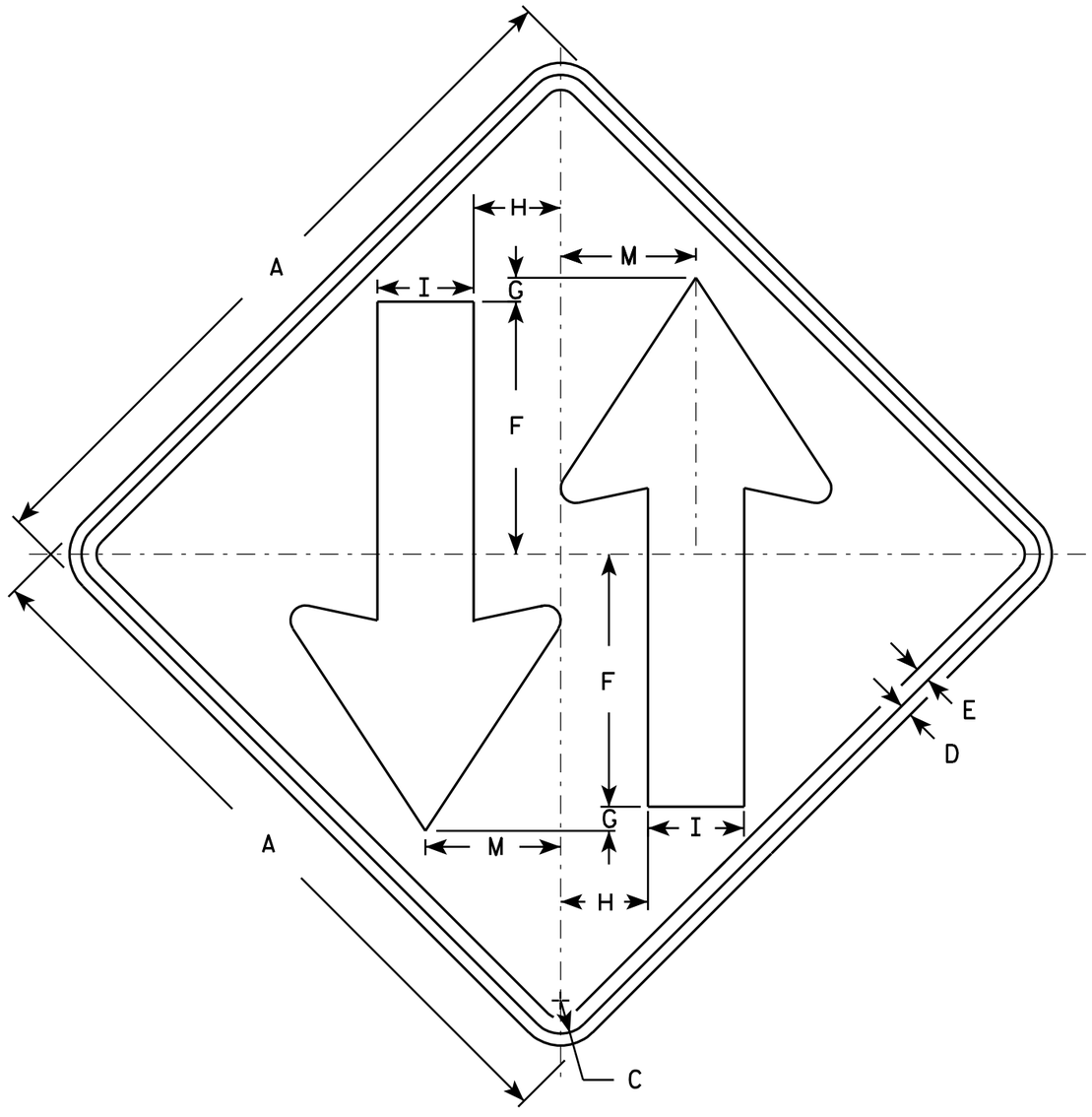
STANDARD SIGN
W57-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/22/11 PLATE NO. W57-52.6

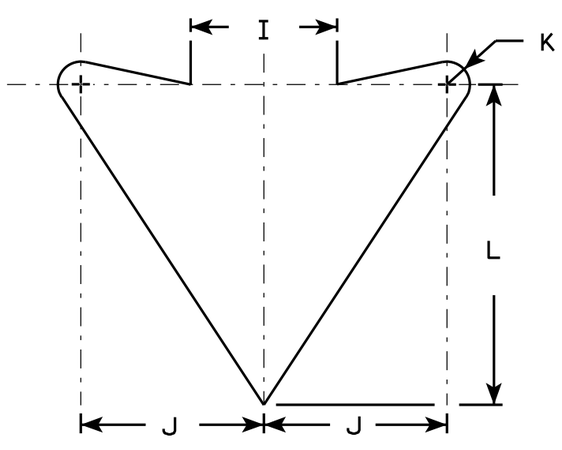
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 967	E



W6-3

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10 1/2	1	3 5/8	4	5	5/8	8 3/4	5 5/8														6.25
2S	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2M	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
3																											
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

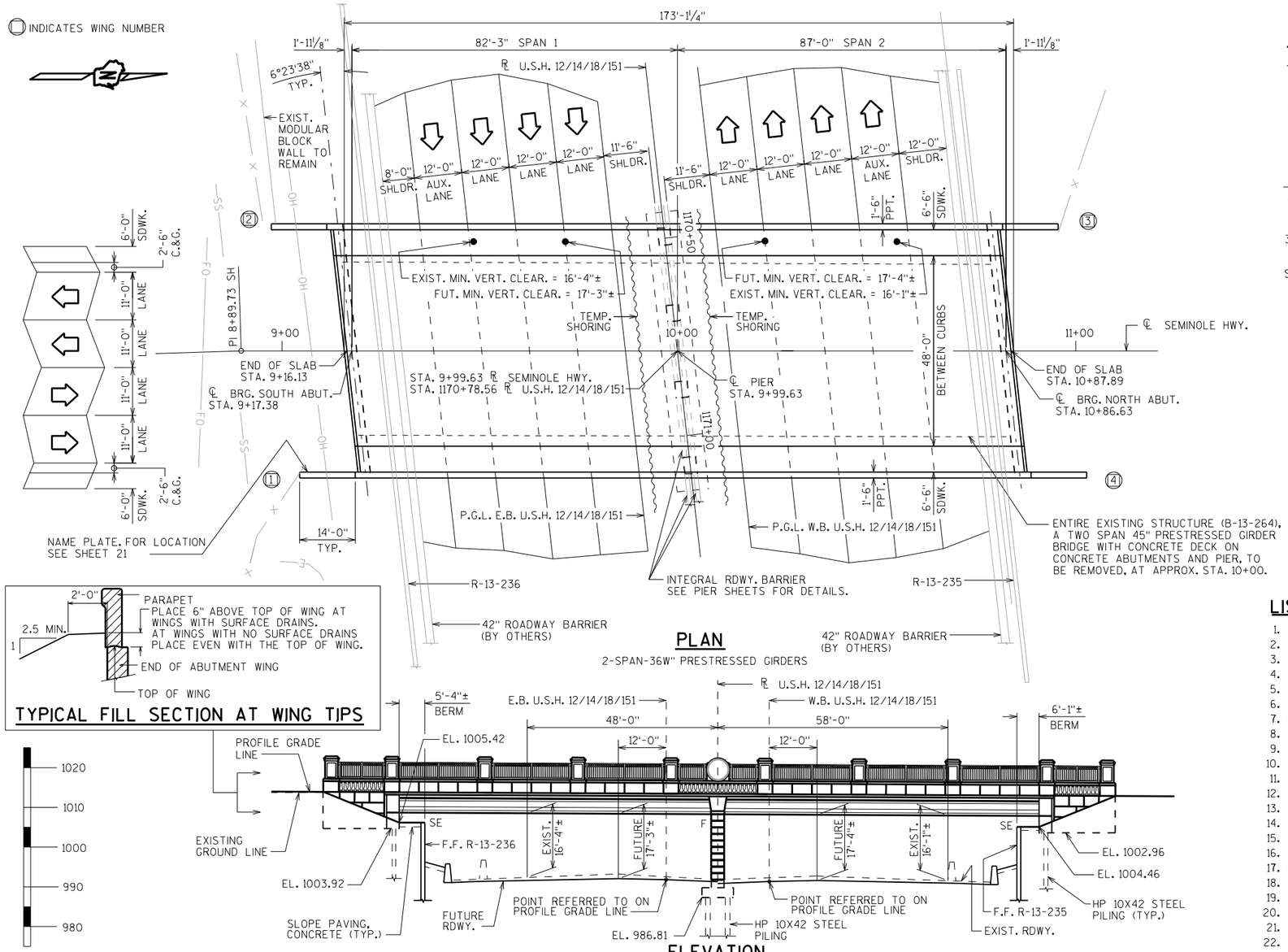
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/22/11 PLATE NO. W6-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 968	E

STATE PROJECT NUMBER

1206-00-72



PLAN

2-SPAN-36W" PRESTRESSED GIRDERS

ELEVATION

CROSS SECTION THRU U.S.H. 12/14/18/151 LOOKING WEST

TYPICAL FILL SECTION AT WING TIPS

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF=1.10
OPERATING RATING FACTOR: RF=1.43
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY SLAB — f'c = 4,000 P.S.I. ALL OTHER — f'c = 3,500 P.S.I.

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 P.S.I.

36W" PRESTRESSED GIRDERS, CONCRETE MASONRY — f'c = 8,000 P.S.I.
STRANDS- 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.

STRUCTURAL CARBON STEEL ASTM A709 GRADE 36 — Fy = 36,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10 X 42 PILING
DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 170 TONS ** PER PILE
AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 90'LONG AT NORTH ABUTMENT. ESTIMATED 85'LONG AT SOUTH ABUTMENT.

PIER TO BE SUPPORTED ON HP 10 X 42 PILING
DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 170 TONS ** PER PILE
AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 75'LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

SEMINOLE HWY.	BELTLINE HWY.
A.D.T.=14,200 (2030)	A.D.T.=128,300 (2030)
R.D.S.=30 M.P.H.	R.D.S.=60 M.P.H.

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT DETAILS
6. NORTH ABUTMENT
7. NORTH ABUTMENT DETAILS
8. PIER
9. PIER DETAILS
10. 36W" PRESTRESSED GIRDER DETAILS
11. 36W" PRESTRESSED GIRDER DETAILS
12. STEEL DIAPHRAGM
13. SUPERSTRUCTURE
14. SUPERSTRUCTURE DETAILS 1
15. SUPERSTRUCTURE DETAILS 2
16. PARAPET DETAILS 1
17. PARAPET DETAILS 2
18. CONDUIT DETAILS
19. RAILING DETAILS
20. AESTHETIC DETAILS 1
21. AESTHETIC DETAILS 2
22. AESTHETIC DETAILS 3
23. AESTHETIC DETAILS 4
24. ALTERNATE CONSTRUCTION JOINT
25. SLOPE PAVING (CONCRETE CAST-IN-PLACE)

⚠ B-13-664 TO BE COMPLETED PRIOR TO U.S.H. 12/14/18/151 RECONSTRUCTION. ROADWAY CONFIGURATION AND VERT. UNDERCLEARANCES ARE SHOWN FOR BOTH EXIST. AND FUTURE RDWY. CONFIGURATIONS.

STRUCTURE DESIGN CONTACTS:
DAN BREUNIG (608) 266-0214
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 2/21/13
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-13-664

SEMINOLE HWY OVER USH 12/14/18/151

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
DANE	MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
DVB	BLB	WWR/DVB	BLB

GENERAL PLAN

SHEET 1 OF 25

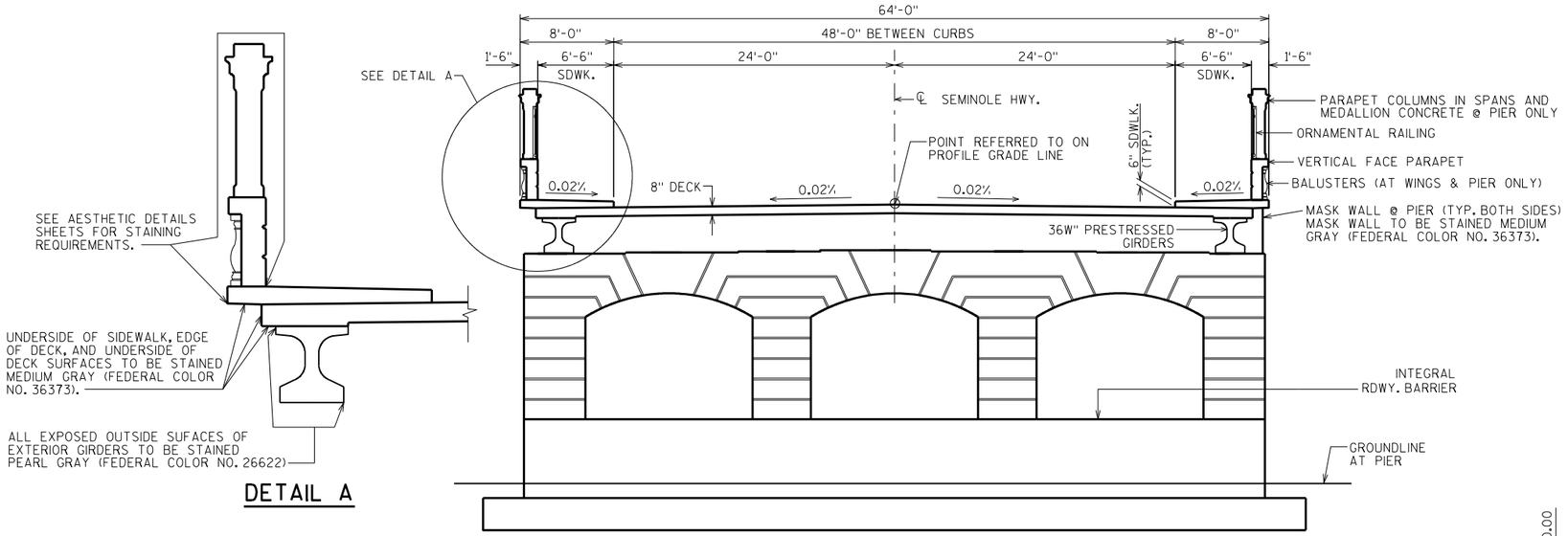
969

I.D. 1206-00-02

DATE:

SCALE =

STATE PROJECT NUMBER
1206-00-72



DETAIL A

CROSS SECTION THRU ROADWAY LOOKING NORTH

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE, CURB, AND SIDEWALK.

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIERS.

THE COLOR OF THE FINISH STAIN SHALL BE MEDIUM GRAY (FEDERAL COLOR NO. 36373). AND PEARL GRAY (FEDERAL COLOR NO. 26622). SEE AESTHETIC DETAILS SHEETS FOR ADDITIONAL INFORMATION.

THE COLOR OF THE NON-STAINING NON-BITUMINOUS JOINT SEALER SHALL MATCH THE COLORS OF THE CONCRETE STAINING.

SIZE 2 COARSE AGGREGATE IS INCIDENTAL TO THE BID ITEM "SLOPE PAVING CONCRETE".

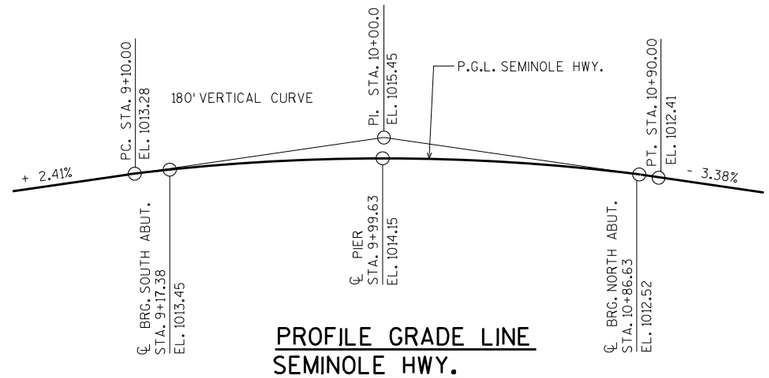
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	NORTH ABUT.	PIER	CAT. 0020	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 10+00	LS	———	———	———	———	———	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-13-664	LS	———	———	———	———	———	1
206.6000.S	TEMPORARY SHORING	SF	———	———	———	780	———	780
210.0100	BACKFILL STRUCTURE	CY	———	215	215	———	———	430
502.0100	CONCRETE MASONRY BRIDGES	CY	480	59	59	154	26 ☆	778
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1185	———	———	———	———	1185
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	1360	———	———	———	———	1360
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	———	4090	4100	2840	———	11030
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	104150	1490	1490	22330	———	129460
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	———	8	8	16	———	32
506.4000	STEEL DIAPHRAGMS B-13-664	EACH	28	———	———	———	———	28
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	———	15	15	———	———	30
517.1010.S	CONCRETE STAINING B-13-664	SF	8045	140	140	1150	410 ◪	9885
517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-13-664	SF	———	———	———	———	230 ◭	230
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	———	1020	1080	2100	———	4200
604.0400	SLOPE PAVING CONCRETE	SY	———	37	42	———	———	79
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	115	115	———	———	230
652.0135	CONDUIT RIGID METALLIC 3-INCH	LF	———	90	90	———	———	180
652.0235	CONDUIT RIGID NON-METALLIC SCHEDULE 40 3-INCH	LF	660	———	———	———	———	660
SPV.0060	DECORATIVE MEDALLION	EACH	———	———	———	———	2	2
SPV.0060	MEDALLION CONCRETE STAINING MULTI-COLOR	EACH	———	———	———	———	2	2
SPV.0090	REMOVING EXISTING TIMBER PILING	LF	———	60	60	480	———	600
SPV.0105	RAILING TUBULAR SCREENING GALVANIZED B-13-664	LS	———	———	———	———	———	1
	NON-BID ITEMS							
	FILLER	SIZE	———	———	———	———		½" & ¾"
	EXPANDED POLYSTYRENE	SIZE	———	———	———	———	———	1"

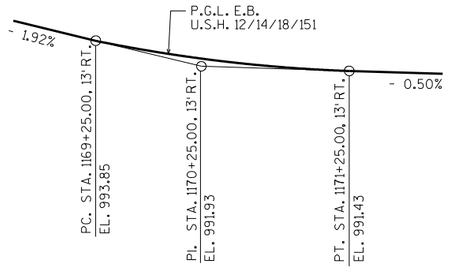
☆ THE QUANTITY OF "CONCRETE MASONRY BRIDGES" IN CATEGORY 0020 INCLUDES CONCRETE FOR BALUSTERS, MEDALLIONS, MASK WALLS, AND PARAPET COLUMNS ABOVE THE PARAPET.

◪ THE QUANTITY OF "CONCRETE STAINING B-13-664" IN CATEGORY 0020 INCLUDES ALL PEARL GRAY FEDERAL COLOR #26622 APPLIED TO PARAPET COLUMNS ABOVE THE PARAPET.

◭ THE QUANTITY OF "ARCHITECTURAL SURFACE TREATMENT" IN CATEGORY 0020 INCLUDES THE AREAS FORMED FOR BALUSTERS.

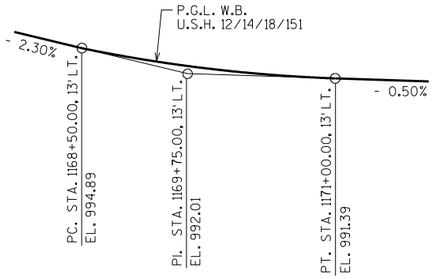


PROFILE GRADE LINE
SEMINOLE HWY.



200' VERTICAL CURVE

PROFILE GRADE LINE
E.B. U.S.H. 12/14/18/151



250' VERTICAL CURVE

PROFILE GRADE LINE
W.B. U.S.H. 12/14/18/151

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY WWR/DVB | PLANS CK'D. BLB

CROSS SECTION & QUANTITIES

SHEET 2

970

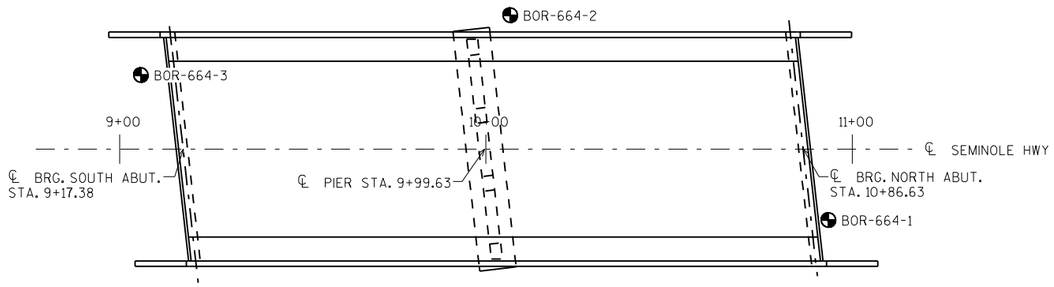
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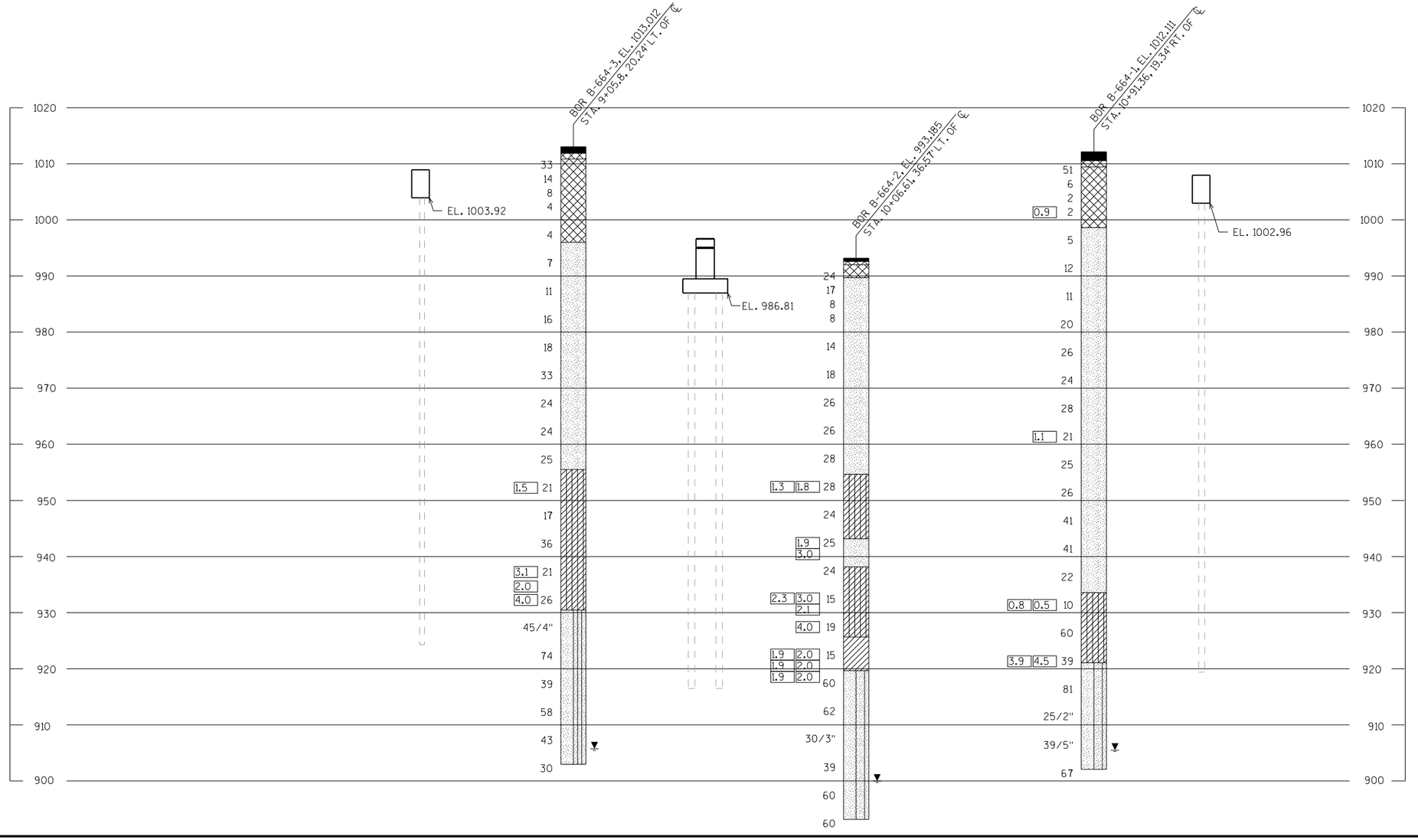
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SCALE =

SOUTH MADISON BELTLINE
SEMINOLE HIGHWAY BRIDGE

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	7/17/12	468399.2	805302.9
2	7/12/12	468315.8	805244.3
3	7/17/12	468214.4	805257.3
BORINGS COMPLETED BY: SES			
REPORT COMPLETED BY: SES			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY			





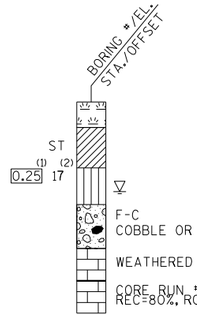
STATE PROJECT NUMBER

1206-00-72

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY PR/DVB | PLANS CK'D. BLB

SUBSURFACE EXPLORATION

SHEET 3

971

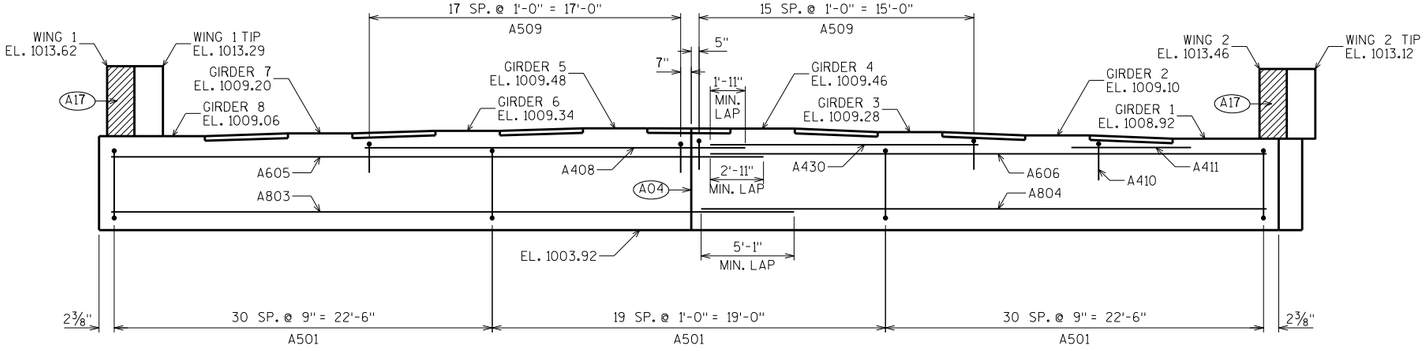
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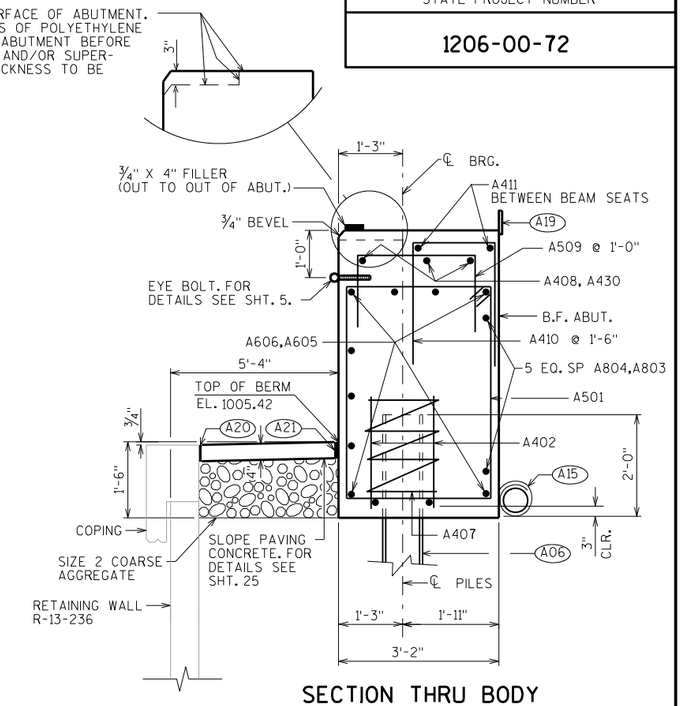
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STATE PROJECT NUMBER

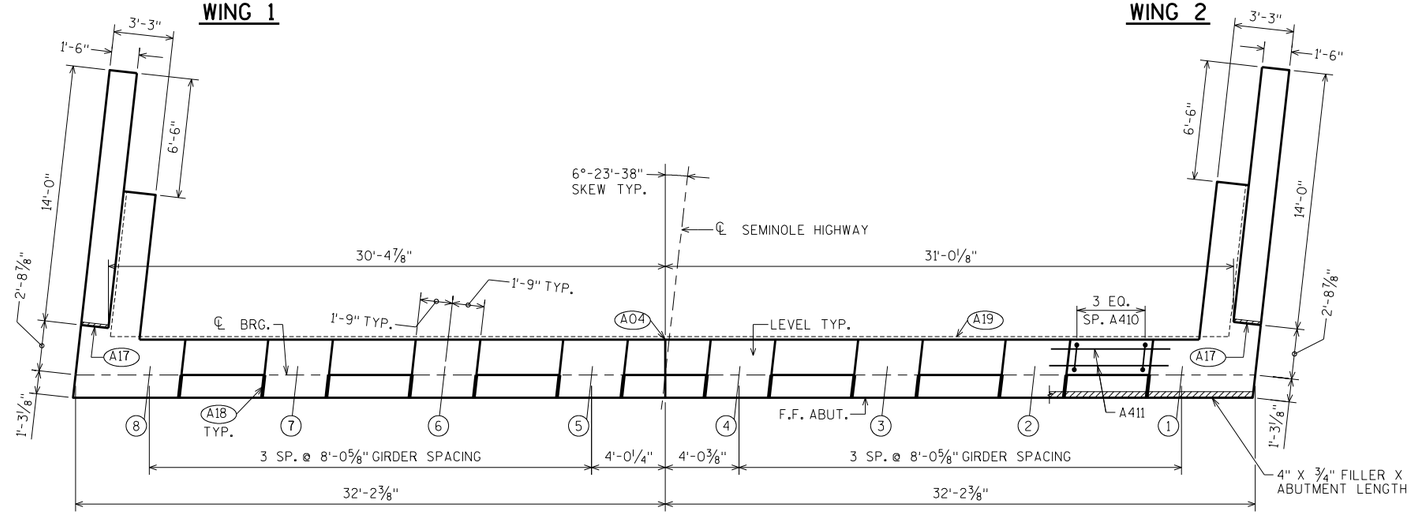
1206-00-72



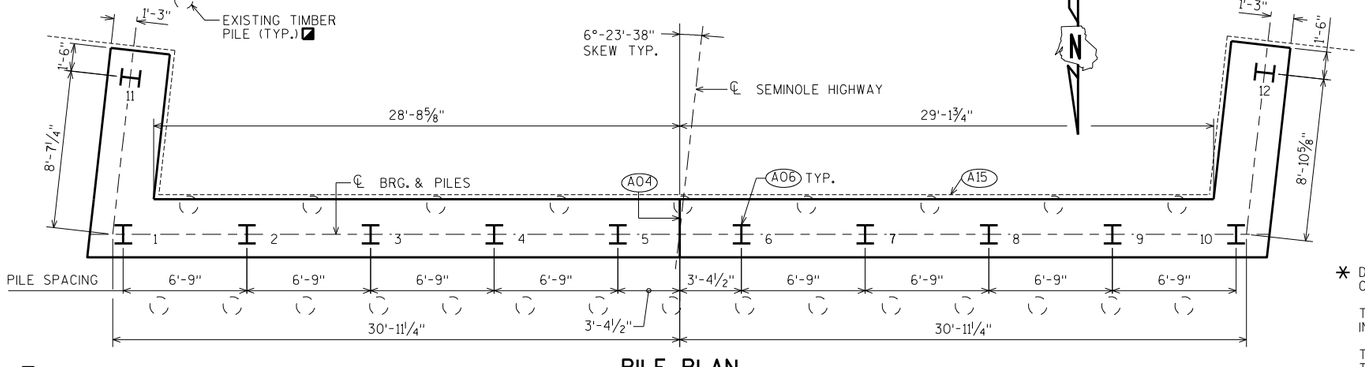
ELEVATION LOOKING SOUTH



SECTION THRU BODY

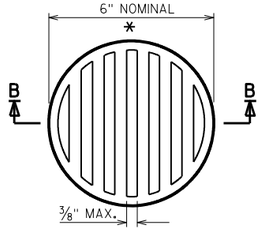


PLAN

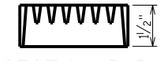


PILE PLAN

◪ LOCATIONS OF EXISTING TIMBER PILES ARE APPROXIMATE, AND BASED ON ORIGINAL PLANS, AS SHOWN. AFTER THE EXISTING FOOTING IS REMOVED, DETERMINE WHICH EXISTING PILES ARE TO BE REMOVED BASED ON SPACING CRITERIA GIVEN IN THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER. REMOVE EXISTING TIMBER PILES THAT ARE IN CONFLICT WITH NEW PILES IN ACCORDANCE WITH THE SPECIAL PROVISION.



RODENT SCREEN DETAIL



SECTION B-B

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH SHEET METAL SCREWS.

(A04) VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2 x 8, 3/4" "V" GROOVE @ THE FRONT FACE AND 18" R.M.W. @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A06) SUPPORT ABUTMENT ON HP 10 x 42 STEEL PILING, ESTIMATED 85'LONG WITH A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A20) 3/4" JOINT FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 3/4" FILLER WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

(A21) 1" EXPANDED POLYSTYRENE: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY	PLANS CK'D.
DFD	BLB

SOUTH ABUTMENT

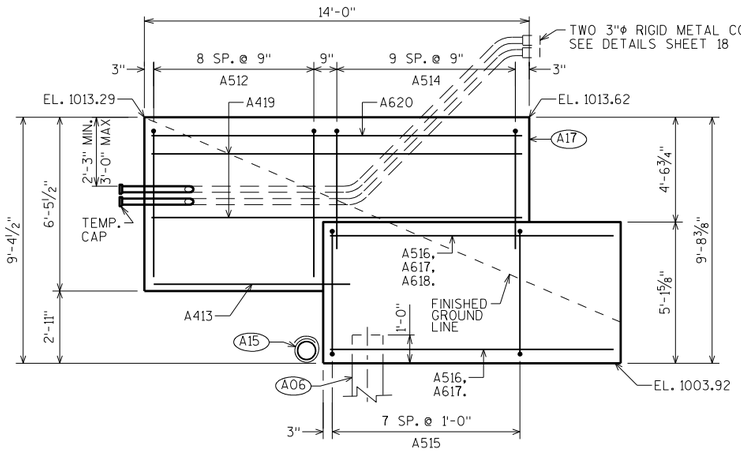
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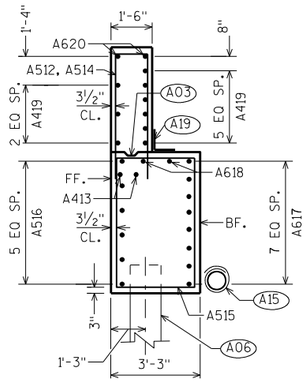
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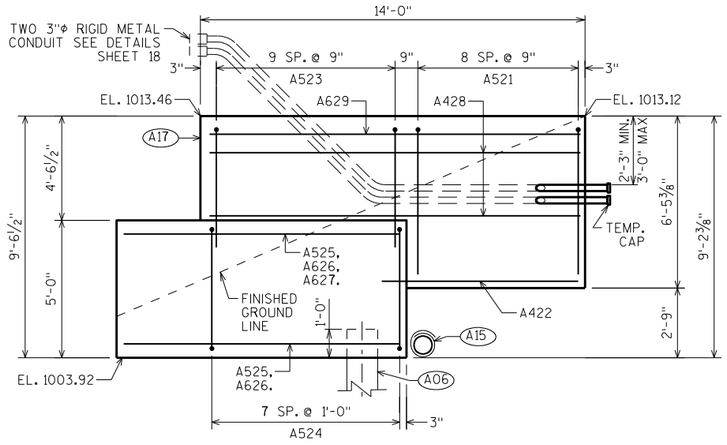
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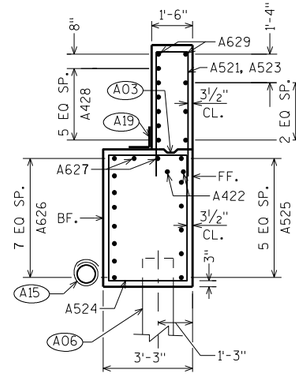
WING 1 ELEVATION



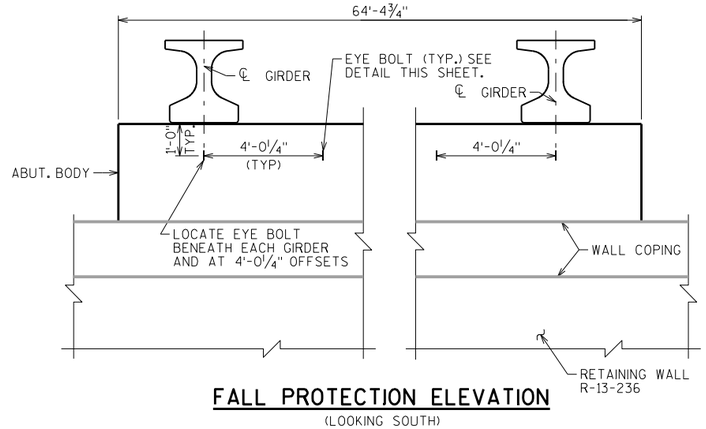
WING 1 SECTION



WING 2 ELEVATION



WING 2 SECTION



FALL PROTECTION ELEVATION

(LOOKING SOUTH)

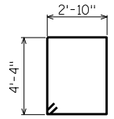
A03 OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 X 6. (18" R.M.W. @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

A06 SUPPORT ABUTMENT ON HP 10 X 42 STEEL PILING, ESTIMATED 85' LONG WITH A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE.

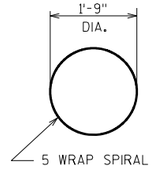
A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED.

A17 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

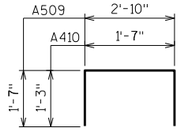
A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



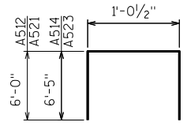
A501



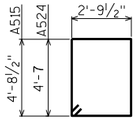
A407



A509, A410



A512, A514, A521, A523



A515, A524

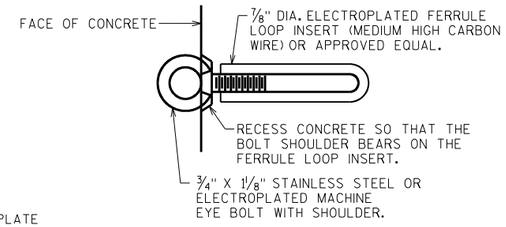
STATE PROJECT NUMBER

1206-00-72

BILL OF BARS

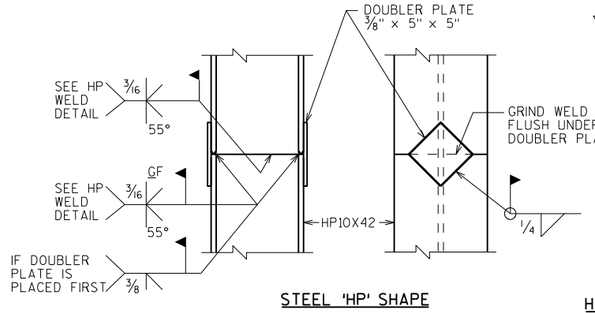
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		80	14'-11"	X		BODY-STIRRUPS
A402		20	2'-3"			PILES- 2 PER PILE
A803		6	37'-2"			BODY-HORIZONTAL
A804		6	32'-1"			BODY-HORIZONTAL
A605		11	35'-1"			BODY-HORIZONTAL
A606		11	31'-11"			BODY-HORIZONTAL
A407		10	28'-0"	X		PILES-1 PER PILE
A408		3	19'-9"			BODY-HORZ. OVER GIRS. 5-6
A509		34	5'-9"	X		BODY-TOP OVER GIRS. 3-6
A410		28	3'-11"	X		BODY-BETWEEN BEAM SEATS
A411		14	6'-6"			BODY-HORZ. EXT
A512	X	9	12'-10"	X		WING 1-VERTICAL
A413	X	2	7'-8"			WING 1-HORIZONTAL
A514	X	10	13'-8"	X		WING 1-VERTICAL
A515	X	8	15'-8"	X		WING 1-STIRRUP
A516	X	6	10'-3"			WING 1-HORIZONTAL
A617	X	8	9'-11"			WING 1-HORIZONTAL
A618	X	2	9'-11"			WING 1-HORIZONTAL
A419	X	9	13'-8"			WING 1-HORIZONTAL
A620	X	2	13'-8"			WING 1-HORIZONTAL
A521	X	9	12'-10"	X		WING 2-VERTICAL
A422	X	2	7'-8"			WING 2-HORIZONTAL
A523	X	10	13'-8"	X		WING 2-VERTICAL
A524	X	8	15'-5"	X		WING 2-STIRRUP
A525	X	6	10'-4"			WING 2-HORIZONTAL
A626	X	8	10'-8"			WING 2-HORIZONTAL
A627	X	2	10'-8"			WING 2-HORIZONTAL
A428	X	9	13'-8"			WING 2-HORIZONTAL
A629	X	2	13'-8"			WING 2-HORIZONTAL
A430		3	15'-8"			BODY-HORZ. OVER GIRS. 3-4



EYE BOLT DETAIL

EYE BOLTS AND FERRULE LOOP INSERTS ARE INCLUDED IN THE BID ITEM "CONCRETE MASONRY BRIDGES". MINIMUM STRENGTH OF EYE BOLT AND LOOP INSERT IS 3500 LB.



STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DFD | PLANS CK'D. BLB

SOUTH ABUTMENT DETAILS

SHEET 5

973

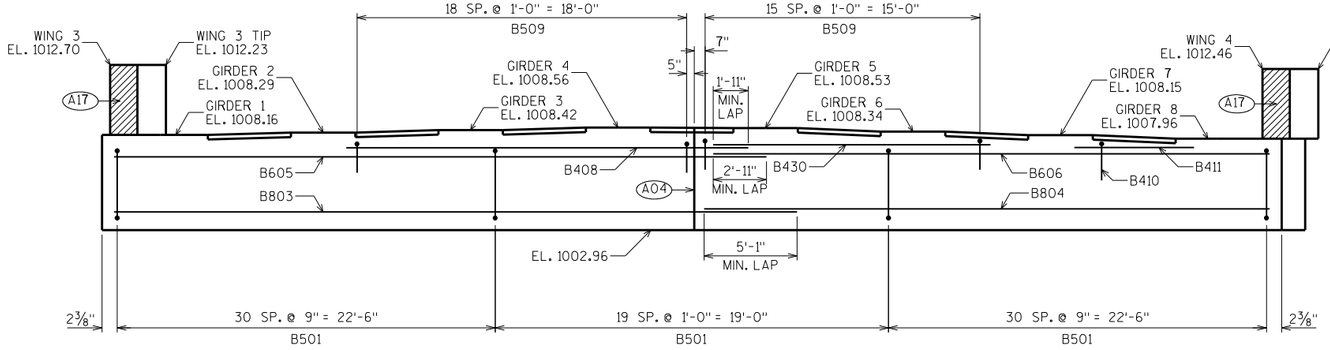
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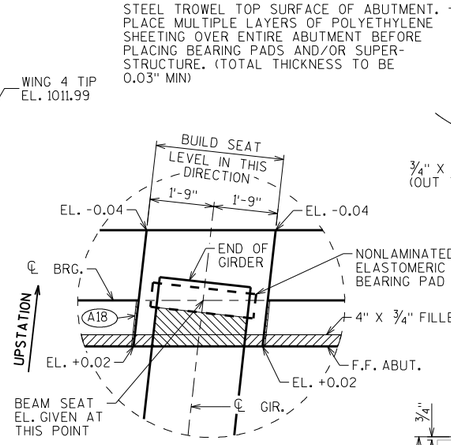
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STATE PROJECT NUMBER

1206-00-72

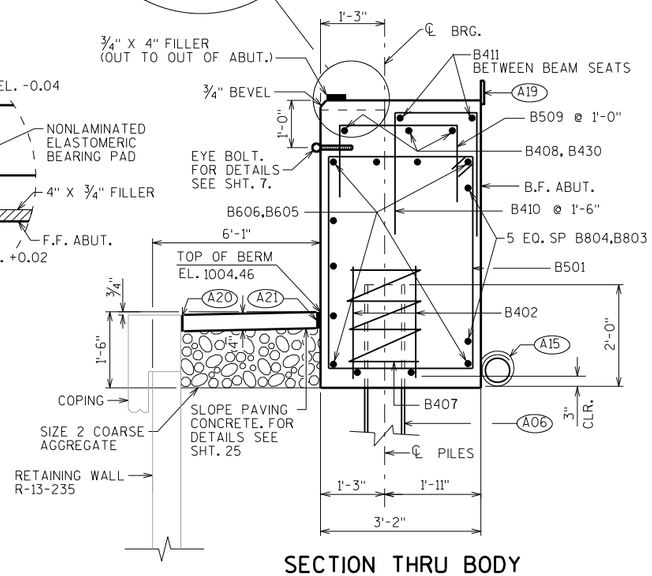


ELEVATION LOOKING NORTH

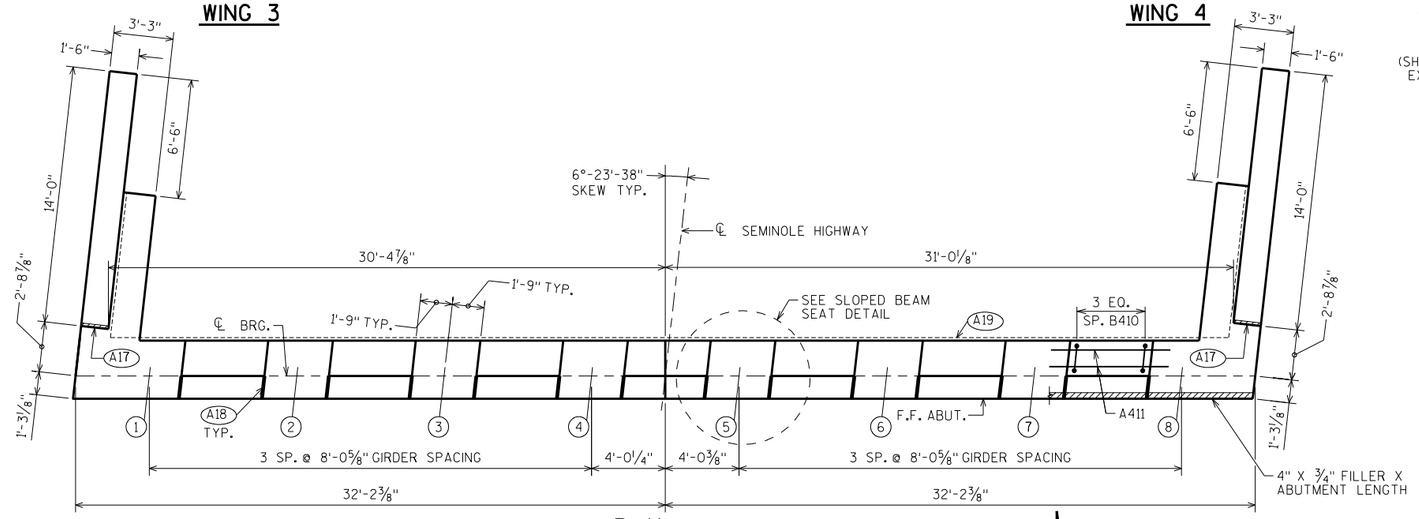


SLOPED BEAM SEAT DETAIL

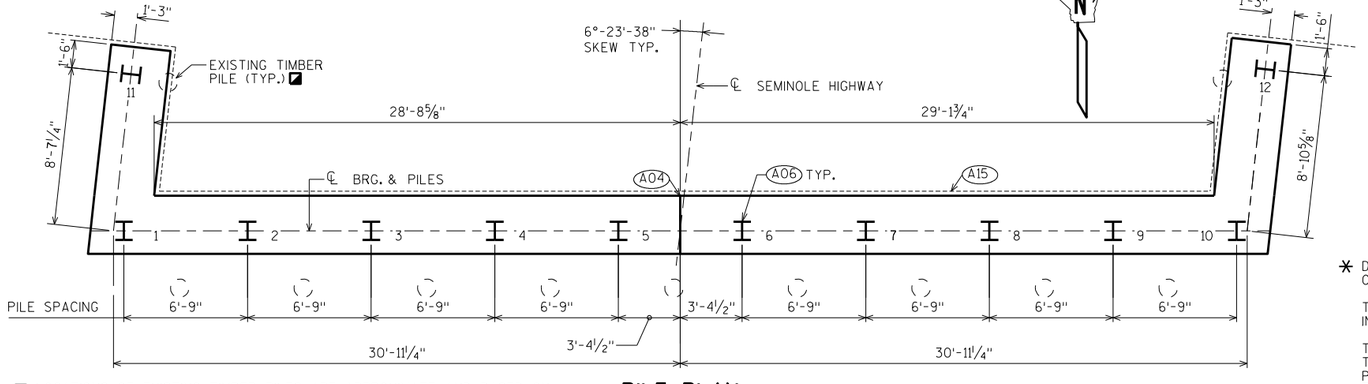
(SHOWN AT INTERIOR GIRDER, EXTERIOR GIRDER SIMILAR)



SECTION THRU BODY

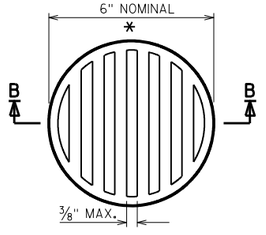


PLAN

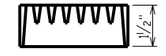


PILE PLAN

◪ LOCATIONS OF EXISTING TIMBER PILES ARE APPROXIMATE, AND BASED ON ORIGINAL PLANS, AS SHOWN. AFTER THE EXISTING FOOTING IS REMOVED, DETERMINE WHICH EXISTING PILES ARE TO BE REMOVED BASED ON SPACING CRITERIA GIVEN IN THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER. REMOVE EXISTING TIMBER PILES THAT ARE IN CONFLICT WITH NEW PILES IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



RODENT SCREEN DETAIL



SECTION B-B

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH SHEET METAL SCREWS.

(A04) VERT. CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2 x 8, 3/4" "V" GROOVE @ THE FRONT FACE AND 18" R.M.W. @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A06) SUPPORT ABUTMENT ON HP 10 x 42 STEEL PILING, ESTIMATED 90'LONG WITH A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A20) 3/4" JOINT FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 3/4" FILLER WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

(A21) 1" EXPANDED POLYSTYRENE: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DFD | PLANS CK'D. BLB

NORTH ABUTMENT

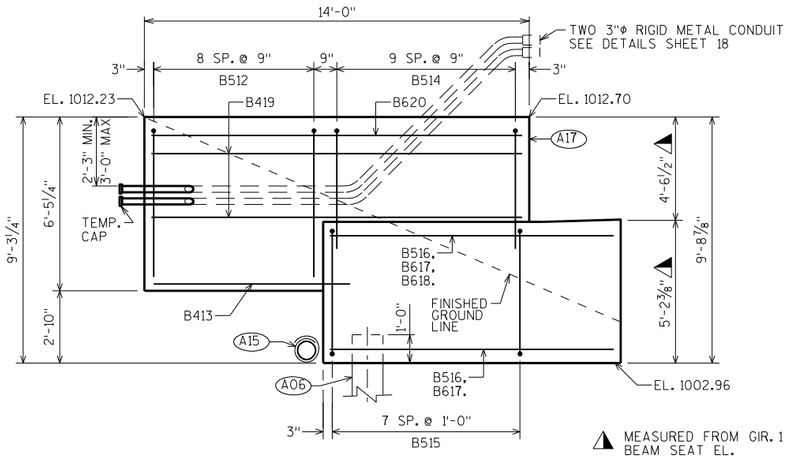
SHEET 6

974

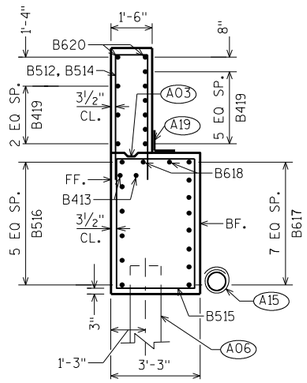
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WING 3 ELEVATION



WING 3 SECTION

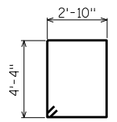
(A03) OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" R.M.W. @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

(A06) SUPPORT ABUTMENT ON HP 10 x 42 STEEL PILING, ESTIMATED 90' LONG WITH A REQUIRED DRIVING RESISTANCE OF 170 TONS PER PILE.

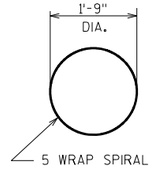
(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

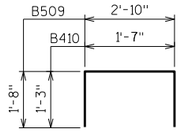
(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



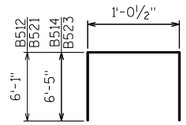
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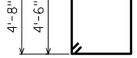
B407



B509, B410



B512, B514, B521, B523

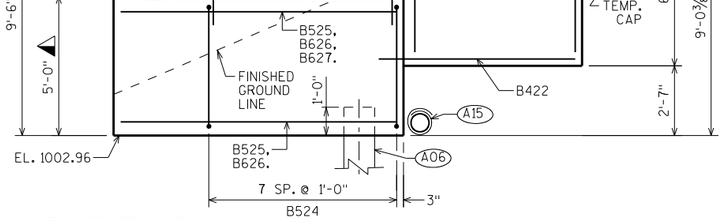


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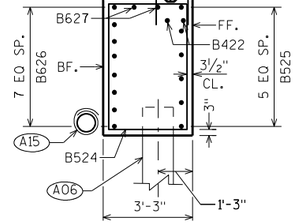
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

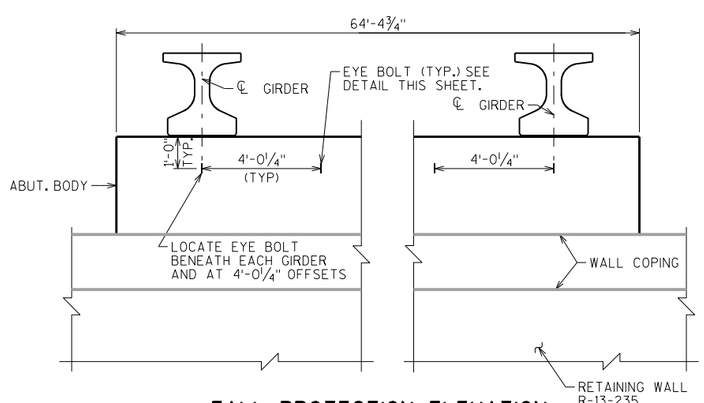
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		80	14'-11"	X		BODY-STIRRUPS
B402		20	2'-3"			PILES- 2 PER PILE
B803		6	37'-2"			BODY-HORIZONTAL
B804		6	32'-1"			BODY-HORIZONTAL
B605		11	35'-1"			BODY-HORIZONTAL
B606		11	31'-11"			BODY-HORIZONTAL
B407		10	28'-0"	X		PILES-1 PER PILE
B408		3	21'-0"			BODY-HORZ. OVER GIRS. 3-4
B509		35	5'-11"	X		BODY-TOP OVER GIRS. 3-6
B410		28	3'-11"	X		BODY-BETWEEN BEAM SEATS
B411		14	6'-6"			BODY-HORZ. EXT
B512	X	9	13'-0"	X		WING 3-VERTICAL
B413	X	2	7'-8"			WING 3-HORIZONTAL
B514	X	10	13'-8"	X		WING 3-VERTICAL
B515	X	8	15'-7"	X		WING 3-STIRRUP
B516	X	6	10'-3"			WING 3-HORIZONTAL
B617	X	8	9'-11"			WING 3-HORIZONTAL
B618	X	2	9'-11"			WING 3-HORIZONTAL
B419	X	9	13'-8"			WING 3-HORIZONTAL
B620	X	2	13'-8"			WING 3-HORIZONTAL
B521	X	9	13'-0"	X		WING 4-VERTICAL
B422	X	2	7'-8"			WING 4-HORIZONTAL
B523	X	10	13'-8"	X		WING 4-VERTICAL
B524	X	8	15'-3"	X		WING 4-STIRRUP
B525	X	6	10'-4"			WING 4-HORIZONTAL
B626	X	8	10'-8"			WING 4-HORIZONTAL
B627	X	2	10'-8"			WING 4-HORIZONTAL
B428	X	9	13'-8"			WING 4-HORIZONTAL
B629	X	2	13'-8"			WING 4-HORIZONTAL
B430		3	16'-2"			BODY-HORZ. OVER GIRS. 5-6



WING 4 ELEVATION

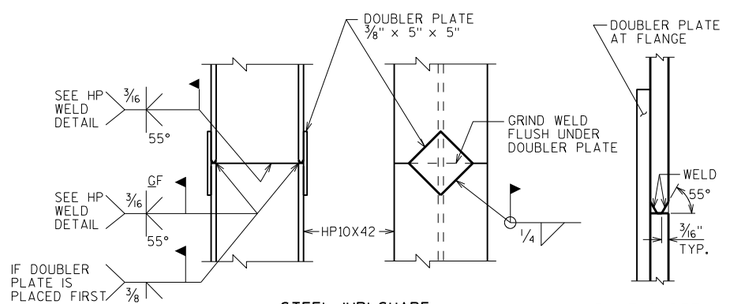


WING 4 SECTION



FALL PROTECTION ELEVATION

(LOOKING NORTH)

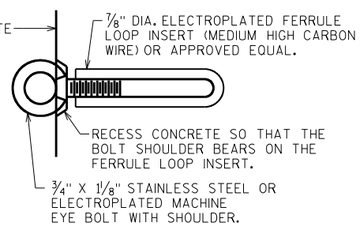


STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS



EYE BOLT DETAIL

EYE BOLTS AND FERRULE LOOP INSERTS ARE INCLUDED IN THE BID ITEM "CONCRETE MASONRY BRIDGES". MINIMUM STRENGTH OF EYE BOLT AND LOOP INSERT IS 3500 LB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DFD | PLANS CK'D. BLB

NORTH ABUTMENT DETAILS

SHEET 7

975

STATE PROJECT NUMBER

1206-00-72

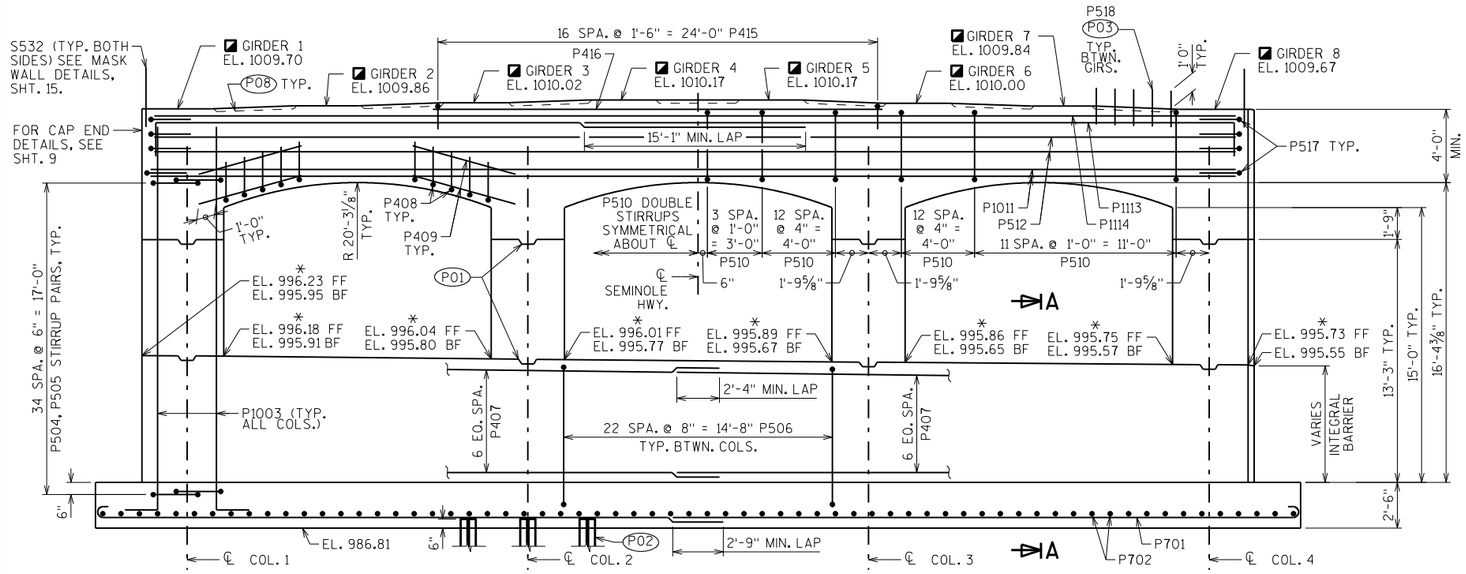
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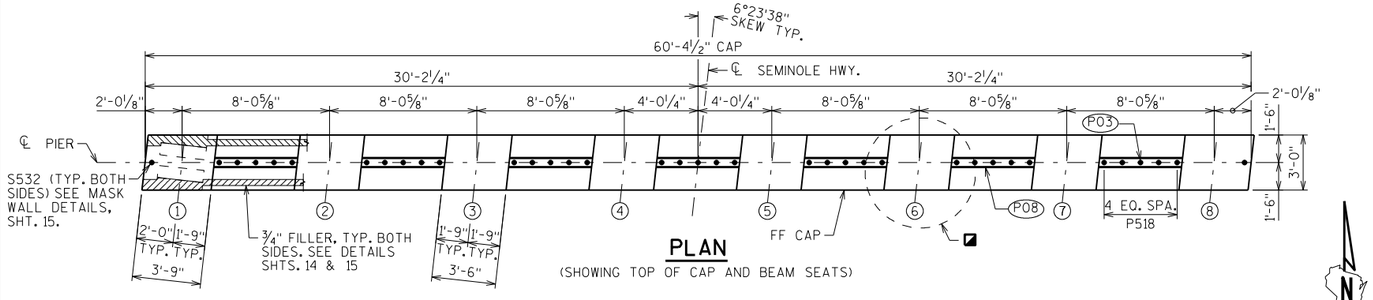
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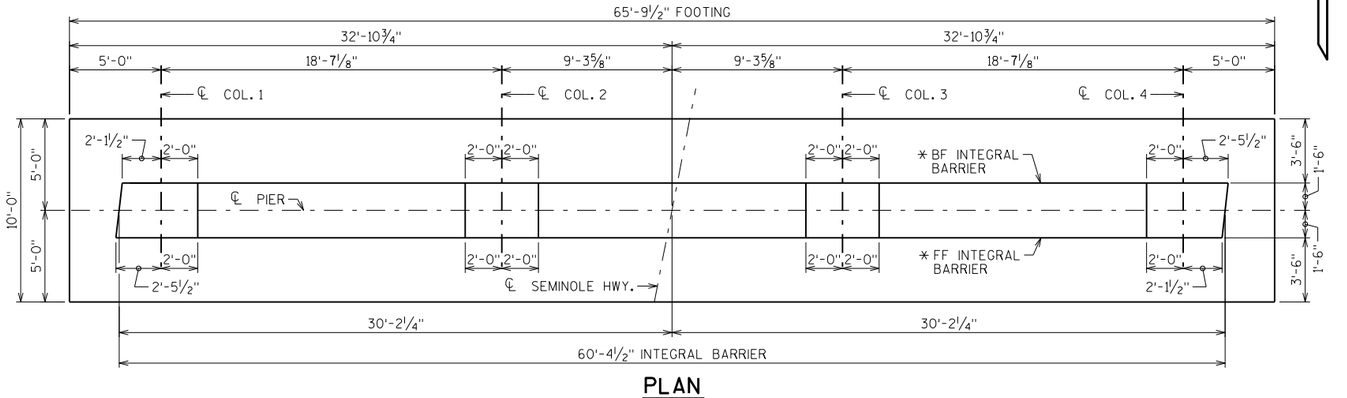
ELEVATION

(LOOKING NORTH)
RUSTICATION GROOVES NOT SHOWN FOR CLARITY. SEE SHT. 23 FOR DETAILS



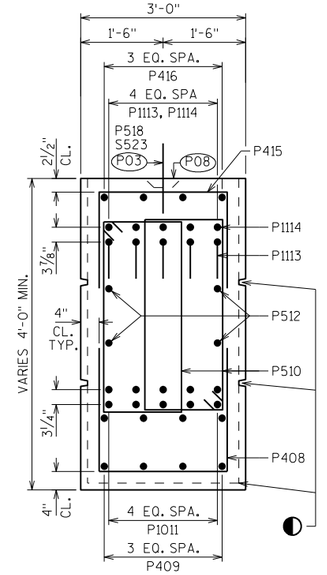
PLAN

(SHOWING TOP OF CAP AND BEAM SEATS)

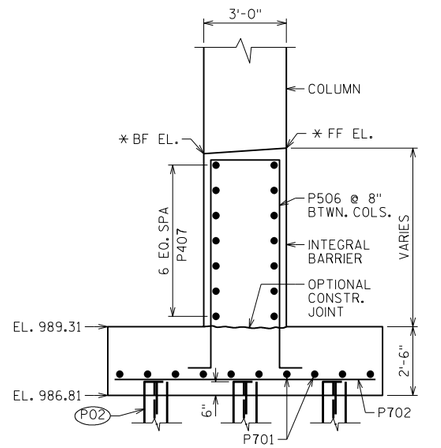


PLAN

(SHOWING FOOTINGS, INTEGRAL BARRIER AND COLUMNS)
(SEE SHEET 9 FOR PILE LAYOUT)

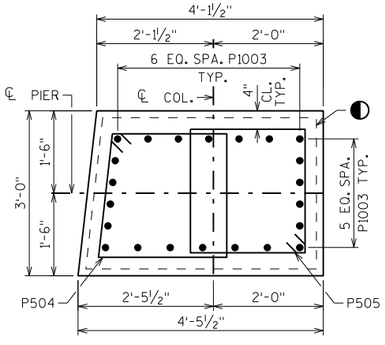


SECTION THRU CAP



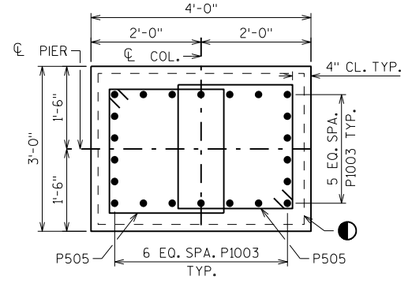
SECTION A-A

(THROUGH INTEGRAL BARRIER AND FOOTING)



SECTION THRU COLUMNS 1 & 4

(COLUMN 1 SHOWN, COLUMN 4 ROTATED 180°)



SECTION THRU COLUMNS 2 & 3

◐ RUSTICATION GROOVES. SEE SHEET 23 FOR DETAILS

◪ SEE SHEET 9 FOR SLOPED BEAM SEAT DETAILS

(P01) 1'-3" X 1'-3" X 2" CONSTRUCTION JOINT FORMED BY BEVELED KEYWAY.

(P02) SUPPORT PIER ON HP 10 x 42 STEEL PILING, ESTIMATED 75'-0" LONG. & DRIVEN TO A MIN. BRG. VALUE OF 170 TONS PER PILE.

(P03) P518 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. S523 BARS OUTSIDE OF EXT. GIRDERS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

(P08) KEYED CONSTRUCTION JOINT-FORMED BY BEVELED 2 x 6 BETWEEN BEAM SEATS.

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

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PIER

SHEET 8

976

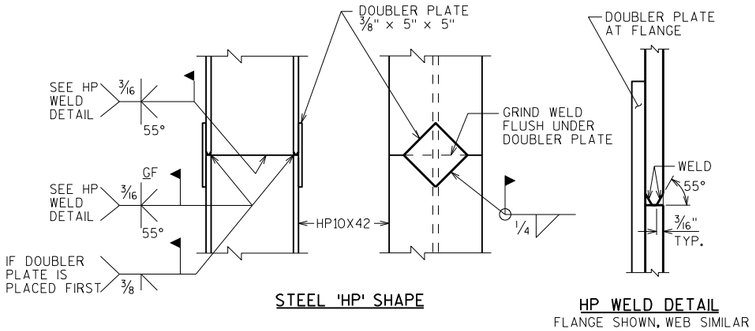
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STATE PROJECT NUMBER

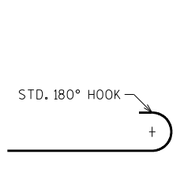
1206-00-72



STEEL 'HP' SHAPE

HP WELD DETAIL
FLANGE SHOWN, WEB SIMILAR

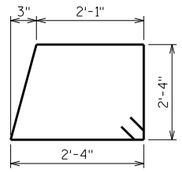
PILE DETAILS



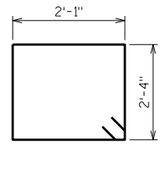
P701



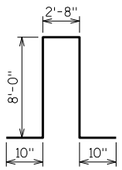
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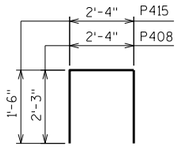
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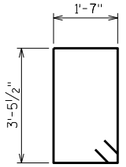
P505



P506



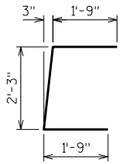
P408, P415



P510



P1113

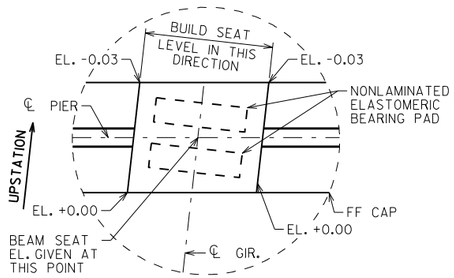


P517

BILL OF BARS

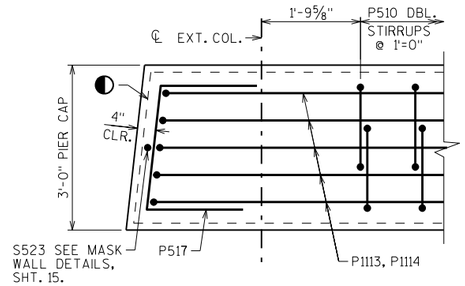
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P701		20	35'-1"	X		FOOTING
P702		72	9'-6"			FOOTING
P1003	X	88	23'-0"	X		COLUMNS VERT.
P504	X	70	9'-8"	X		COLUMNS 1 & 4 STIRRUPS
P505	X	210	9'-5"	X		COLUMNS 1-4 STIRRUPS
P506	X	69	19'-10"	X		INTEGRAL BARRIER STIRRUPS
P407	X	28	31'-1"			INTEGRAL BARRIER HORIZ.
P408	X	30	6'-8"	X		CAP ARCH U-BAR
P409	X	48	6'-0"			CAP ARCH DIAGONAL
P510	X	160	10'-8"	X		CAP STIRRUPS
P1011	X	10	59'-8"			CAP BOTTOM HORIZ.
P512	X	4	59'-8"			CAP MIDDLE HORIZ.
P1113	X	10	39'-1"	X		CAP TOP HORIZ.
P1114	X	5	59'-8"			CAP TOP HORIZ.
P415	X	17	5'-2"	X		CAP TOP U-BAR UNDER GIRS. 3-5
P416	X	4	24'-6"			CAP HORIZ. UNDER GIRS 3-5
P517	X	8	5'-6"	X		CAP END U-BAR
P518	X	35	2'-0"			CAP VERT. DOWELS



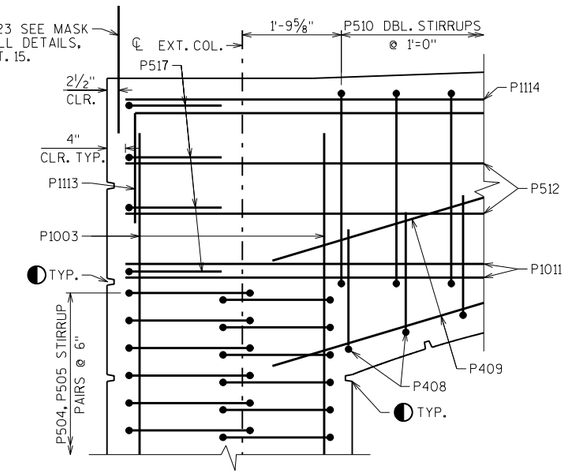
BEAM SEAT DETAIL

(SHOWN AT INTERIOR GIRDER, EXTERIOR GIRDER SIMILAR)



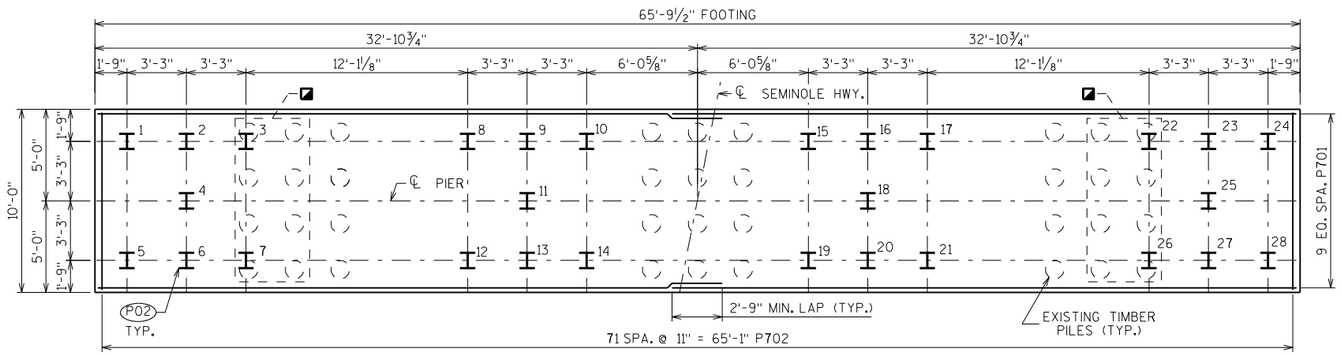
CAP END PLAN

(WEST END SHOWN, EAST END SIMILAR)



CAP END DETAIL

(WEST END SHOWN, EAST END SIMILAR)



FOOTING PLAN

◪ LOCATIONS OF EXISTING TIMBER PILES ARE APPROXIMATE, AND BASED ON ORIGINAL PLANS, AS SHOWN. AFTER THE EXISTING FOOTING IS REMOVED, DETERMINE WHICH EXISTING PILES ARE TO BE REMOVED BASED ON SPACING CRITERIA GIVEN IN THE SPECIAL PROVISIONS AND AS DIRECTED BY THE ENGINEER. REMOVE EXISTING TIMBER PILES THAT ARE IN CONFLICT WITH NEW PILES IN ACCORDANCE WITH THE SPECIAL PROVISIONS. CUT OFF ALL REMAINING EXISTING TIMBER PILES 6" BELOW BOTTOM OF PROPOSED FOOTING.

◐ RUSTICATION GROOVES. SEE SHEET 23 FOR DETAILS

(P02) SUPPORT PIER ON HP 10 X 42 STEEL PILING, ESTIMATED 75'-0" LONG. & DRIVEN TO A MIN. BRG. VALUE OF 170 TONS PER PILE.

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STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

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PIER DETAILS

SHEET 9

977

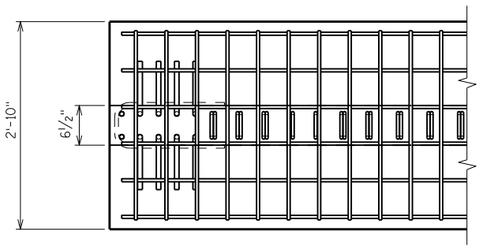
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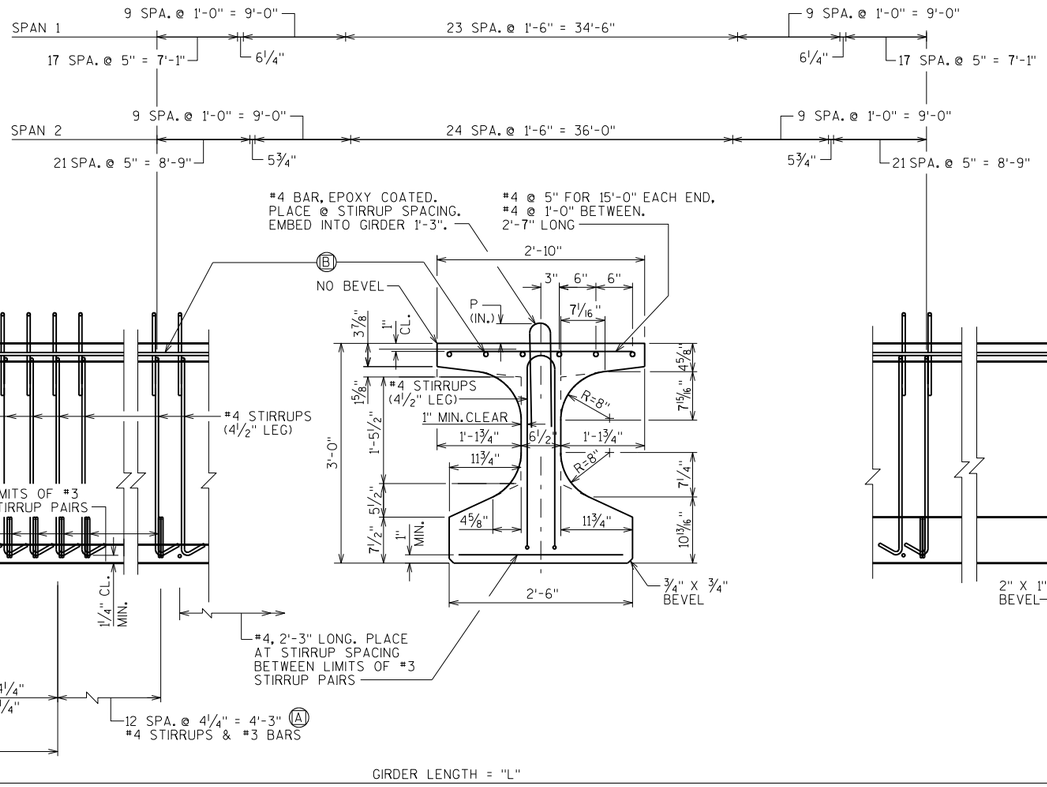
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STATE PROJECT NUMBER

1206-00-72



TOP FLANGE

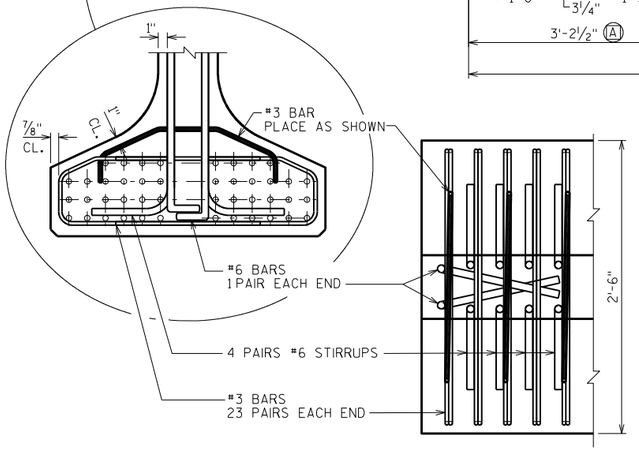


SIDE VIEW & TYP. SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"

SECTION A-A



BOTTOM FLANGE

GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

STRANDS SHALL BE FLUSH WITH THE END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, ENDS OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

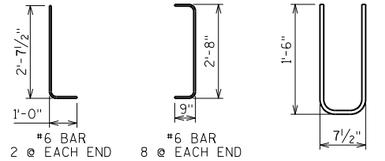
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, ONE OPTION IS AVAILABLE:

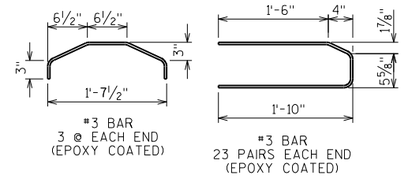
USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE 0.6" DIA. -7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.





* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.)									CONC. STRGTH. f'c (p.s.i.)	"P" 1ST ⅓ OF GIRDER	"P" MID ⅓ OF GIRDER	"P" END ⅓ OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN						UNDRAPED PATTERN	
			1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10						TOTAL NO. OF STRANDS	f'ci (P.S.I.) *	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	TOTAL NO. OF STRANDS	f'ci (P.S.I.)
1	1-8	82.63	0.5	1.0	1.3	1.5	1.6	1.5	1.3	1.0	0.5	8000	8	9	8	0.60	26	6800	32	11	14	4		
2	1-8	87.38	0.6	1.2	1.6	1.9	2.0	1.9	1.6	1.2	0.6	8000	8	9	8	0.60	30	6800	32	11	14	4		

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

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36W" PRESTRESSED GIRDER DETAILS

SHEET 10

978

DEC 2012

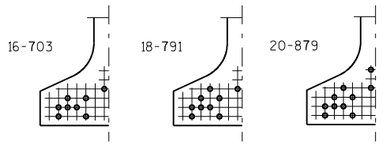
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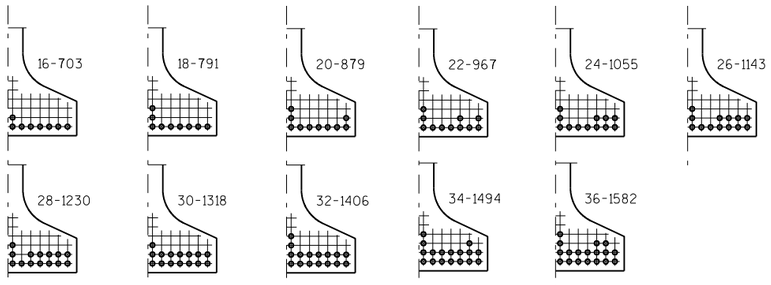
STATE PROJECT NUMBER

1206-00-72



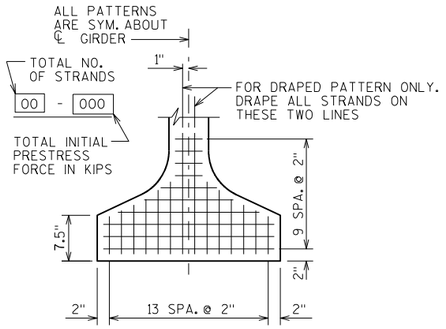
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS

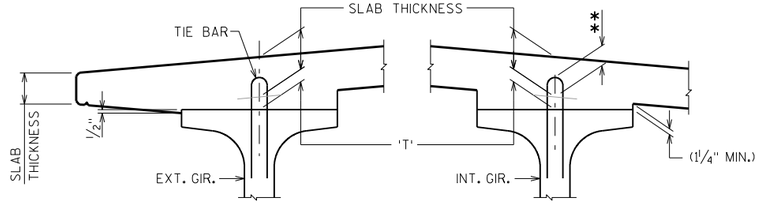


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



TYP. STRAND PATTERN



SLAB HAUNCH DETAIL

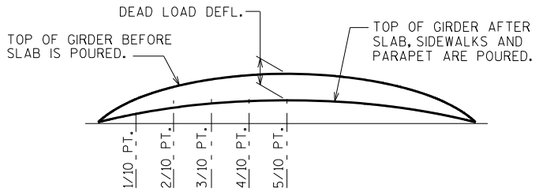
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

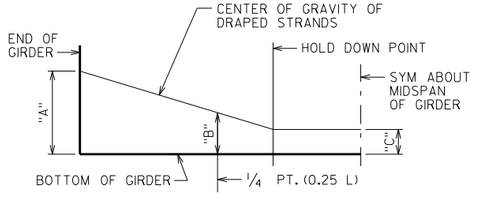
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3.44" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN		
1	2.63"	*
2	3.40"	*

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

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STRUCTURE B-13-664

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36W" PRESTRESSED GIRDER DETAILS

SHEET 11

979

DEC 2012

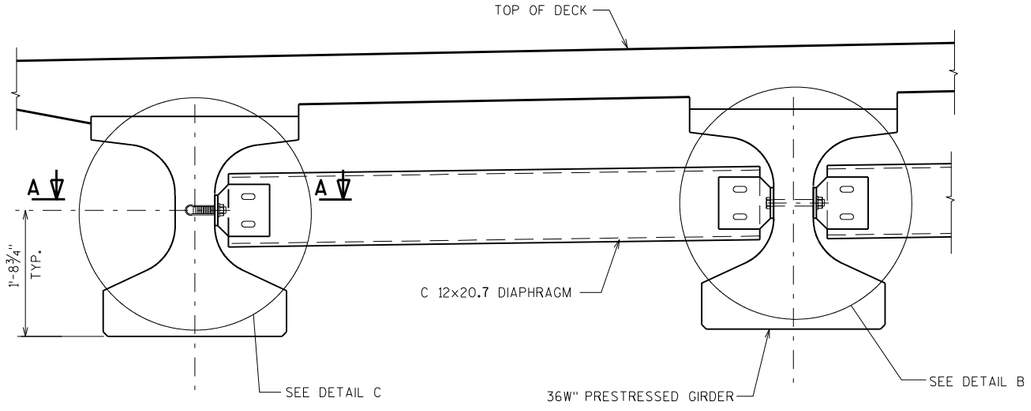
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STATE PROJECT NUMBER

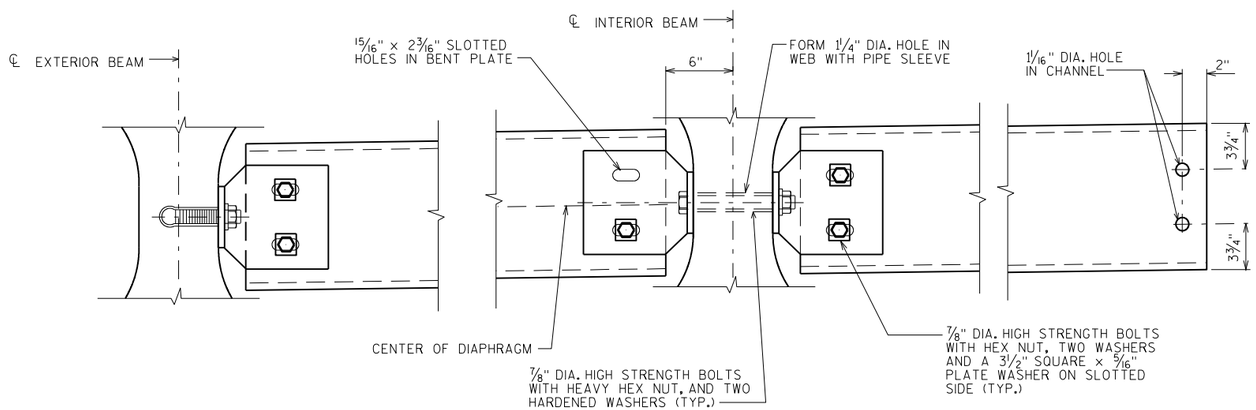
1206-00-72



EXTERIOR GIRDER

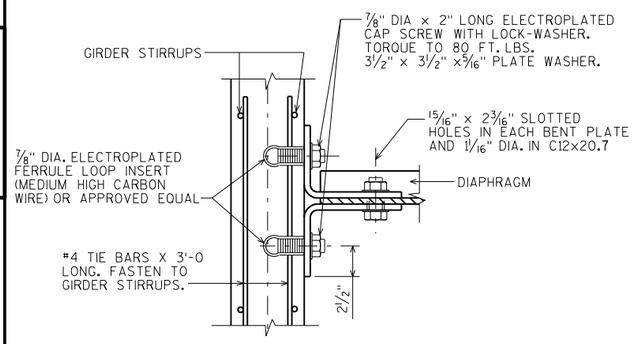
INTERIOR GIRDER

PART TRANSVERSE SECTION AT DIAPHRAGM



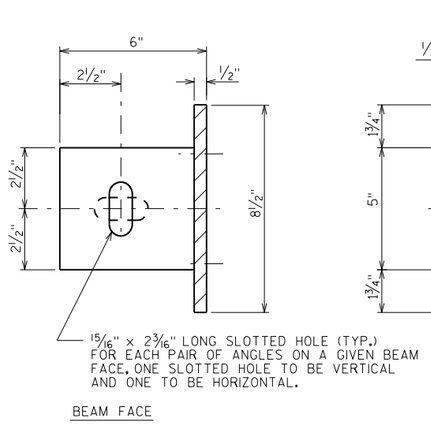
DETAIL C

DETAIL B

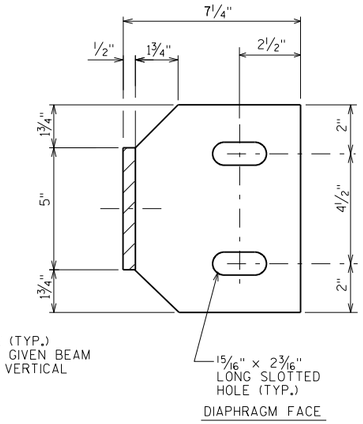


SECTION A-A

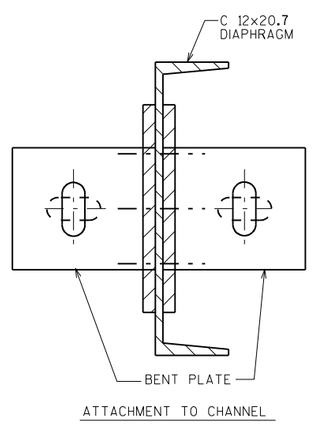
(FOR EXTERIOR ATTACHMENT)



BEAM FACE



DIAPHRAGM FACE



ATTACHMENT TO CHANNEL

NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-13-664", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

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STEEL DIAPHRAGM

SHEET 12

980

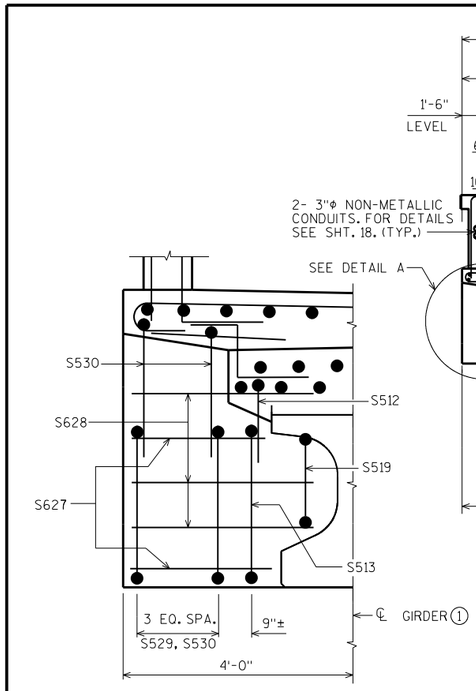
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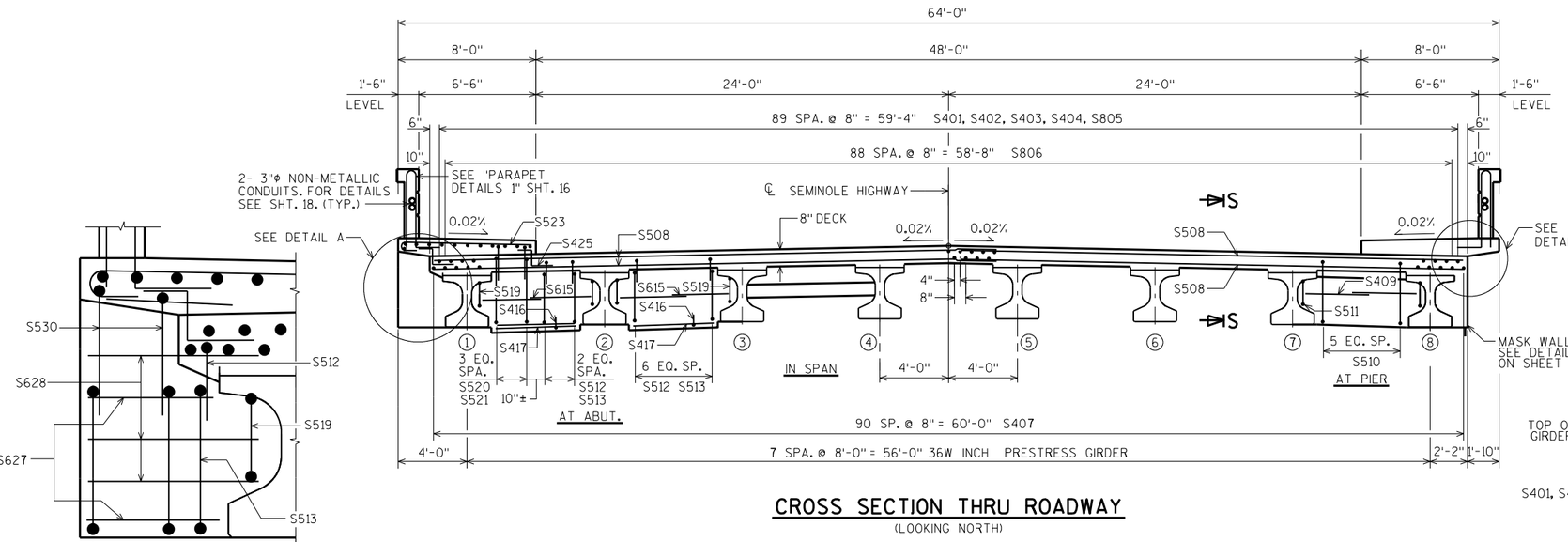
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STATE PROJECT NUMBER

1206-00-72

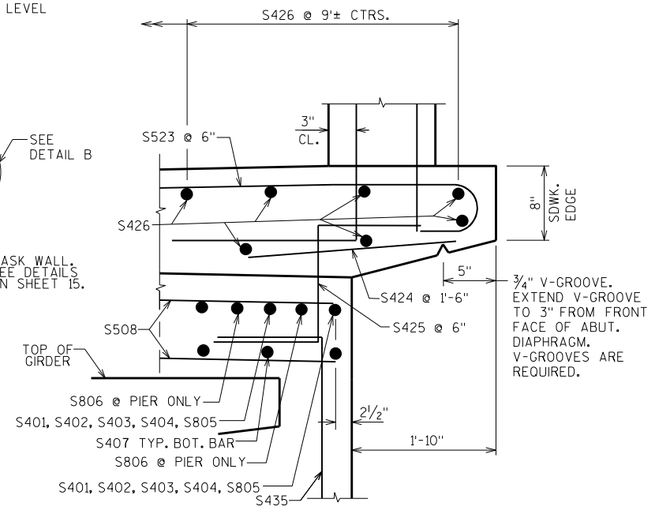


DETAIL A



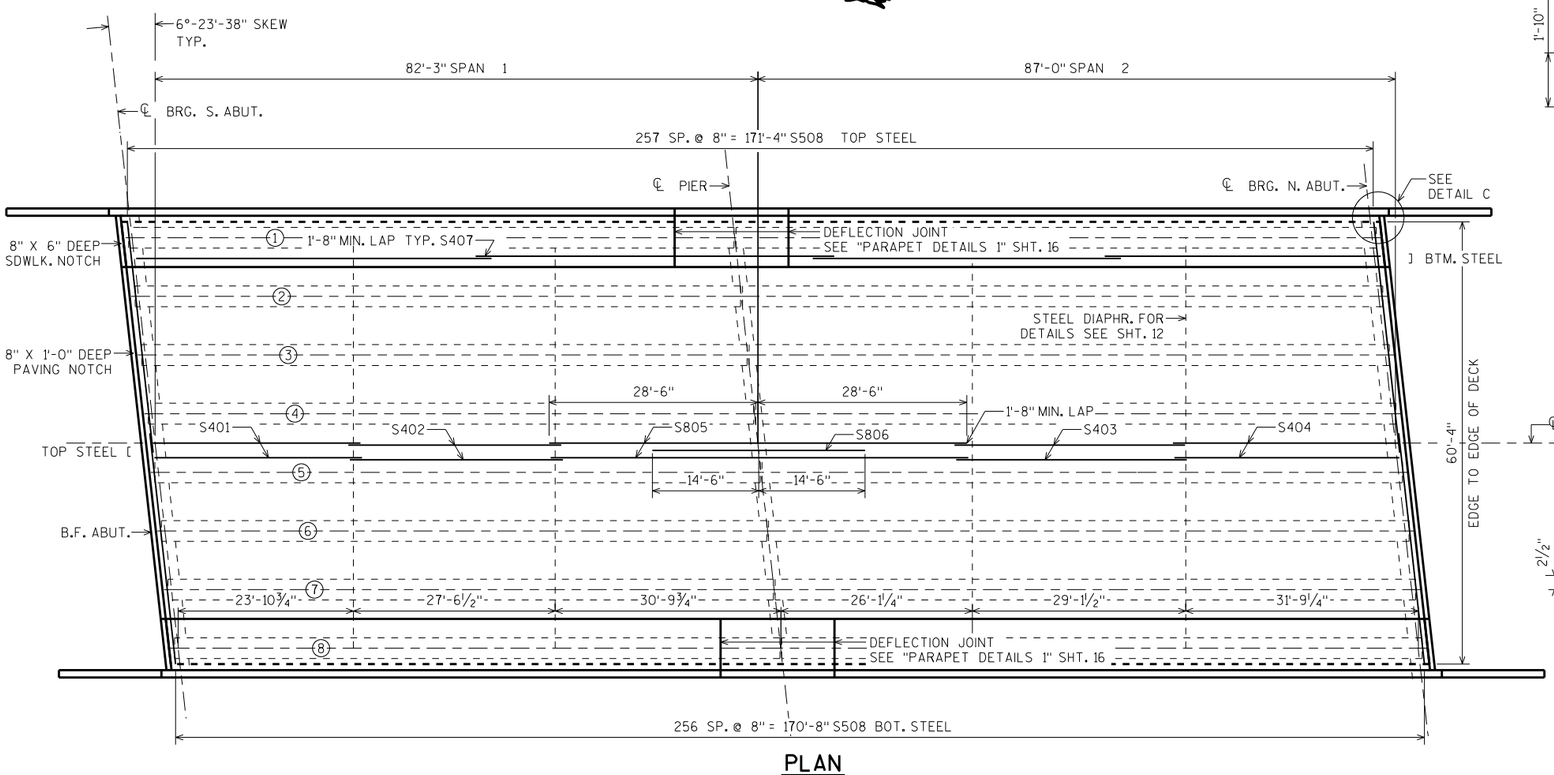
CROSS SECTION THRU ROADWAY

(LOOKING NORTH)

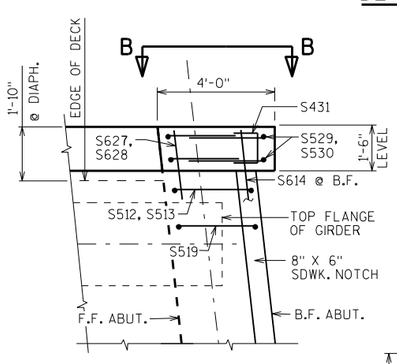


DETAIL B

DETAIL A

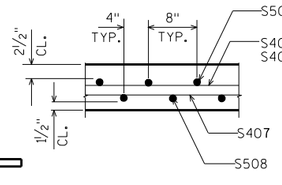


PLAN

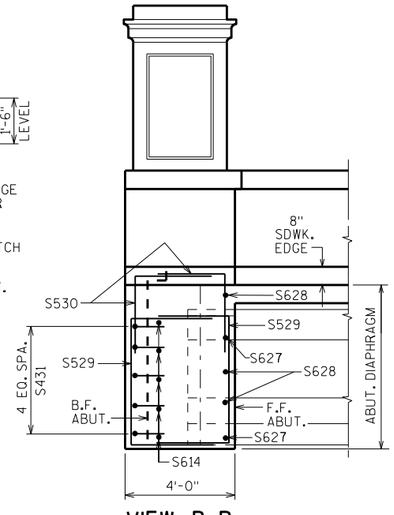


DETAIL C

NW CORNER SHOWN
OTHER CORNERS SIMILAR



SECTION S-S



VIEW B-B

SHOWING TYP. REINF. AT ENDS OF ABUT. DIAPH.'S ONLY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DVB | PLANS CK'D. BLB

SUPERSTRUCTURE

SHEET 13

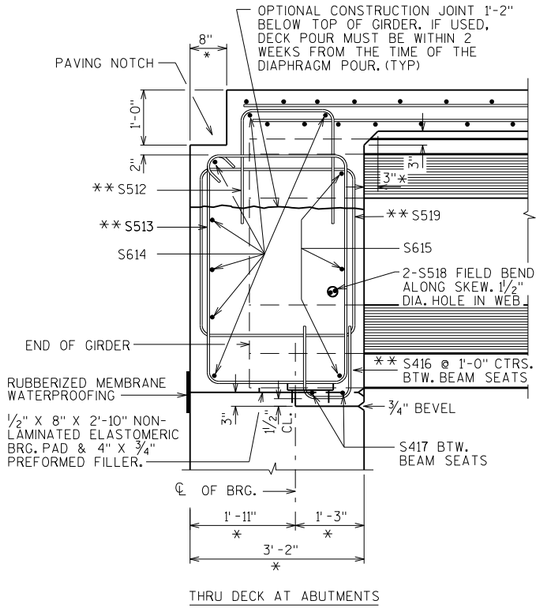
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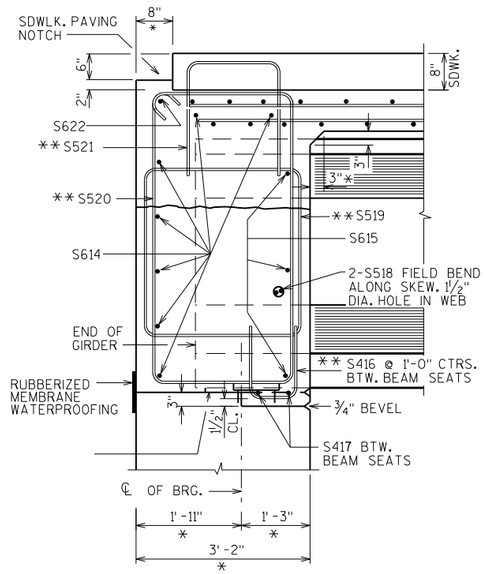
DEC 2012

8

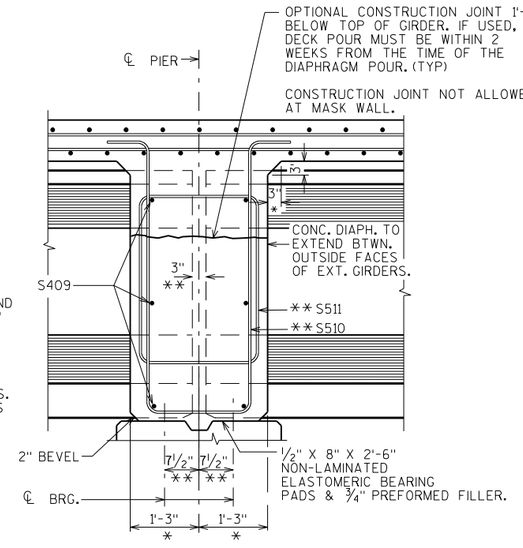
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THRU DECK AT ABUTMENTS



THRU SIDEWALK AT ABUTMENTS

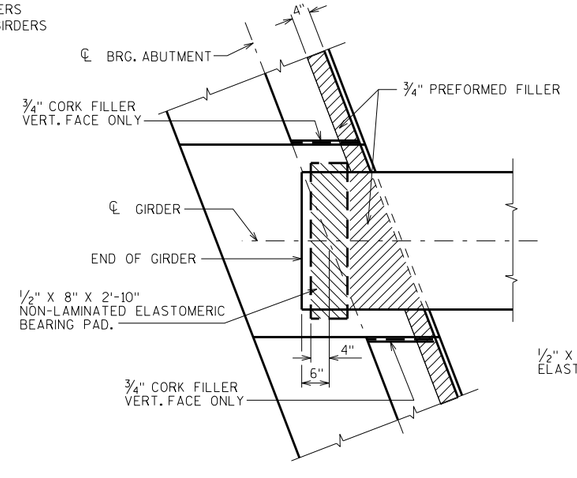


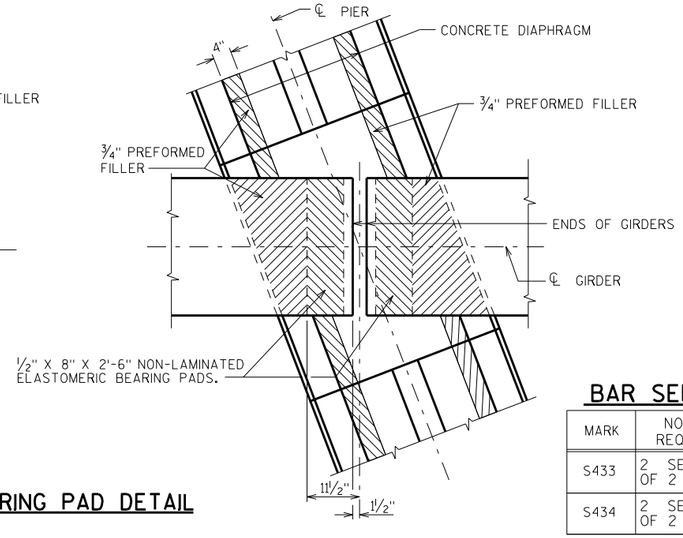
AT PIER DIAPHRAGM

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** BARS PLACED PARALLEL TO GIRDERS SPACING PERPENDICULAR TO ℄ GIRDERS

PART LONGIT. SECTION





BEARING PAD DETAIL

BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
S433	2 SERIES OF 2	6'-8" TO 7'-0"
S434	2 SERIES OF 2	4'-0" TO 5'-2"

BUNDLE AND TAG EACH SERIES SEPARATELY.

TOP OF DECK ELEVATIONS

	S. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	PIER 1	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	N. ABUT.
EOD	1012.77	1012.95	1013.10	1013.24	1013.35	1013.44	1013.51	1013.55	1013.58	1013.58	1013.56	1013.52	1013.45	1013.36	1013.24	1013.10	1012.93	1012.74	1012.53	1012.29	1012.03
GIR. 1	1012.82	1013.00	1013.15	1013.28	1013.39	1013.48	1013.55	1013.60	1013.62	1013.62	1013.60	1013.56	1013.49	1013.40	1013.28	1013.14	1012.97	1012.78	1012.56	1012.32	1012.06
GIR. 2	1013.00	1013.17	1013.33	1013.46	1013.57	1013.65	1013.72	1013.76	1013.78	1013.78	1013.76	1013.71	1013.64	1013.54	1013.42	1013.28	1013.11	1012.92	1012.70	1012.46	1012.19
GIR. 3	1013.18	1013.35	1013.50	1013.63	1013.74	1013.82	1013.88	1013.92	1013.94	1013.94	1013.92	1013.87	1013.79	1013.69	1013.57	1013.42	1013.25	1013.06	1012.84	1012.59	1012.32
GIR. 4	1013.36	1013.53	1013.68	1013.80	1013.91	1013.99	1014.05	1014.09	1014.10	1014.10	1014.07	1014.02	1013.94	1013.84	1013.72	1013.57	1013.39	1013.20	1012.97	1012.73	1012.45
℄	1013.45	1013.62	1013.76	1013.89	1013.99	1014.07	1014.13	1014.17	1014.18	1014.18	1014.15	1014.10	1014.02	1013.92	1013.79	1013.64	1013.46	1013.26	1013.04	1012.79	1012.52
GIR. 5	1013.38	1013.55	1013.69	1013.81	1013.92	1014.00	1014.05	1014.09	1014.10	1014.10	1014.07	1014.01	1013.93	1013.83	1013.70	1013.55	1013.37	1013.17	1012.95	1012.70	1012.43
GIR. 6	1013.24	1013.40	1013.55	1013.67	1013.77	1013.84	1013.90	1013.93	1013.94	1013.93	1013.90	1013.85	1013.76	1013.66	1013.53	1013.37	1013.19	1012.99	1012.76	1012.51	1012.24
GIR. 7	1013.10	1013.26	1013.40	1013.52	1013.61	1013.69	1013.74	1013.77	1013.78	1013.77	1013.74	1013.68	1013.59	1013.49	1013.35	1013.20	1013.01	1012.81	1012.58	1012.32	1012.05
GIR. 8	1012.96	1013.12	1013.25	1013.37	1013.46	1013.54	1013.59	1013.62	1013.62	1013.61	1013.57	1013.51	1013.42	1013.31	1013.18	1013.02	1012.83	1012.63	1012.39	1012.14	1011.86
EOD	1012.92	1013.08	1013.21	1013.33	1013.42	1013.50	1013.55	1013.57	1013.58	1013.56	1013.53	1013.47	1013.38	1013.27	1013.13	1012.97	1012.79	1012.58	1012.34	1012.09	1011.80

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

STATE PROJECT NUMBER

1206-00-72

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	90	30'-0"			LONGITUDINAL TOP - SPAN 1
S402	X	90	28'-2"			LONGITUDINAL TOP - SPAN 1
S403	X	90	35'-0"			LONGITUDINAL TOP - SPAN 2
S404	X	90	30'-0"			LONGITUDINAL TOP - SPAN 2
S805	X	90	57'-0"			LONGITUDINAL CONTINUITY
S806	X	89	29'-0"			LONGITUDINAL CONTINUITY
S407	X	364	44'-3"			LONGITUDINAL BOTTOM
S508	X	1030	31'-6"			TRANSVERSE TOP AND BOTTOM
S409	X	84	4'-9"			PIER DIAPHRAGM - HORIZ.
S510	X	42	10'-0"	X		PIER DIAPHRAGM - VERT.
S511	X	20	7'-8"	X		PIER DIAPHRAGM - VERT.
S512	X	86	5'-9"	X		ABUT. DIAPHRAGM @ DECK - VERT.
S513	X	86	11'-8"	X		ABUT. DIAPHRAGM @ DECK - VERT.
S614	X	28	33'-7"			ABUT. DIAPHRAGM - HORIZ.
S615	X	84	5'-4"			ABUT. DIAPHRAGM - HORIZ.
S416	X	84	3'-3"	X		ABUT. DIAPHRAGM - VERT.
S417	X	28	4'-3"			ABUT. DIAPHRAGM - HORIZ.
S518	X	32	6'-0"			ABUT. DIAPHRAGM
S519	X	32	9'-0"	X		ABUT. DIAPHRAGM
S520	X	16	13'-6"	X		ABUT. DIAPHRAGM @ SDWLK. - VERT.
S521	X	16	5'-9"	X		ABUT. DIAPHRAGM @ SDWLK. - VERT.
S622	X	4	5'-10"			ABUT. DIAPHRAGM @ SDWLK. - HORIZ.
S523	X	688	8'-3"	X		SIDEWALK. - TRANSVERSE. - HORIZ.
S424	X	232	2'-8"			SIDEWALK. - TRANSVERSE. - HORIZ.
S425	X	1376	2'-7"	X		SIDEWALK. - TRANSVERSE. - VERT. - Z BAR
S426	X	112	44'-3"			SIDEWALK. - LONGIT. - HORIZ.
S627	X	8	2'-3"			ABUT. DIAPHRAGM END - HORIZ.
S628	X	12	3'-4"			ABUT. DIAPHRAGM END - HORIZ.
S529	X	32	9'-9"	X		ABUT. DIAPHRAGM END - VERT.
S530	X	32	6'-5"	X		ABUT. DIAPHRAGM END - VERT.
S431	X	20	4'-10"	X		ABUT. DIAPHRAGM END - HORIZ.
S532	X	2	3'-7"			PIER CAP END/MASK WALL - VERT.
S433	X	4	6'-10"	X	▲	MASK WALL - HORIZ.
S434	X	4	4'-7"	X	▲	MASK WALL - HORIZ.
S435	X	16	4'-0"	X		MASK WALL/DECK - VERT.
S536	X	436	8'-6"	X		PARAPET - VERT.
S537	X	88	8'-4"	X		PARAPET - VERT. - COLUMNS
S538	X	8	9'-11"	X		PARAPET - VERT.
S439	X	526	2'-6"	X		PARAPET - HORIZ. - TOP
S440	X	80	44'-10"			PARAPET - HORIZ. - LONGIT.
S441	X	80	3'-8"			PARAPET - HORIZ. - LONGIT. - COLUMNS
S542	X	192	6'-0"			PARAPET/PPT. COLUMN - VERT.
S543	X	96	8'-1"	X		PARAPET COLUMN U-BAR TOP
S444	X	224	3'-1"			PARAPET COLUMN - HORIZ.
S545	X	18	15'-6"	X		MEDALLION - VERT.
S446	X	20	5'-8"			MEDALLION - HORIZ.
S447	X	4	6'-6"	X		MEDALLION - TOP

SEE SHEET 15 FOR BENT BAR DETAILS.

▲ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DVB | PLANS CK'D. BLB

SUPERSTRUCTURE DETAILS 1

SHEET 14

982

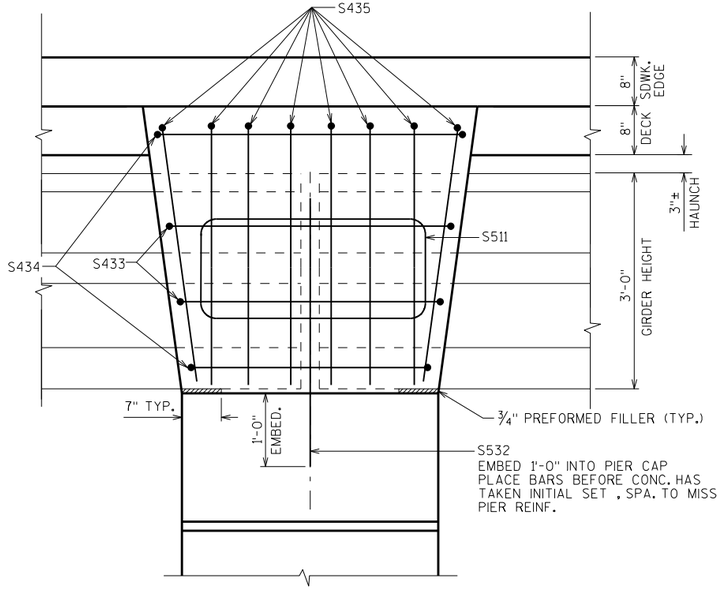
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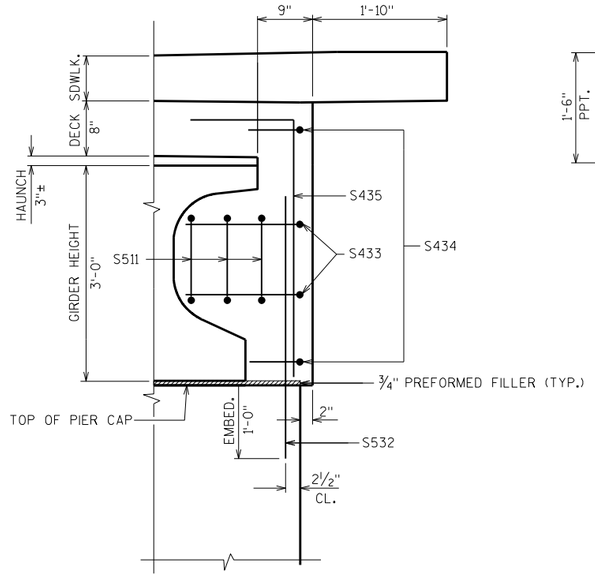
STATE PROJECT NUMBER

1206-00-72



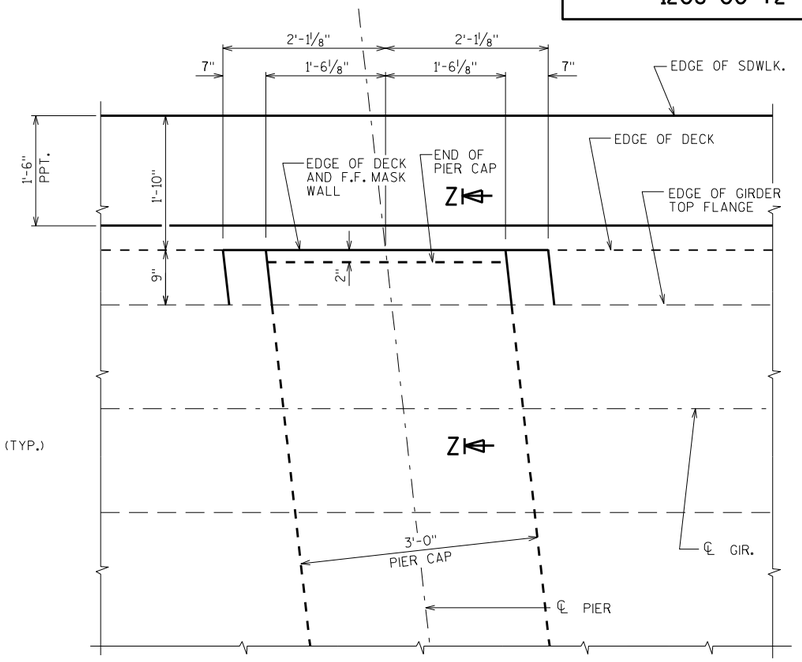
MASK WALL ELEVATION

(SHOWING MASK WALL REINF. ONLY)



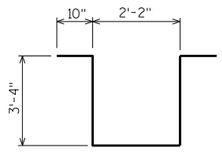
SECTION Z-Z

(SHOWING MASK WALL REINF. ONLY)
(CONSTRUCTION JOINT NOT ALLOWED AT MASK WALL)

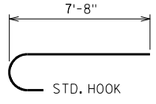


PLAN

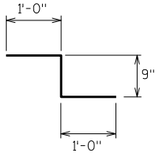
(SHOWING MASK WALL DIMENSIONS)



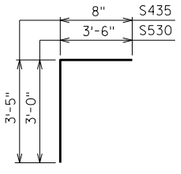
S510



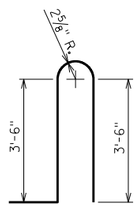
S523



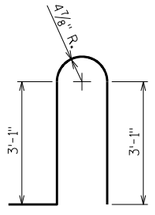
S425



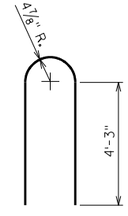
S530, S435



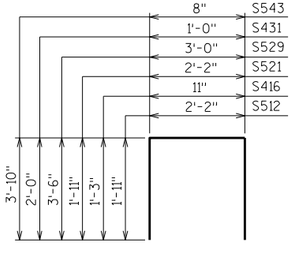
S536



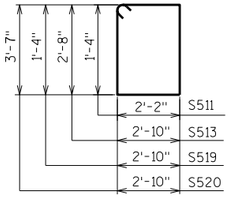
S537



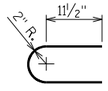
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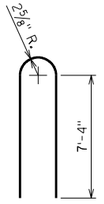
S512, S416, S521, S529, S431, S543



S511, S513, S519, S520



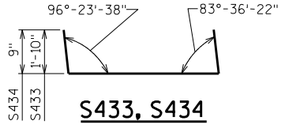
S439



S545



S447



S433, S434

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DVB | PLANS CK'D. BLB

SUPERSTRUCTURE DETAILS 2

SHEET 15

983

SCALE = 2.89

8

8

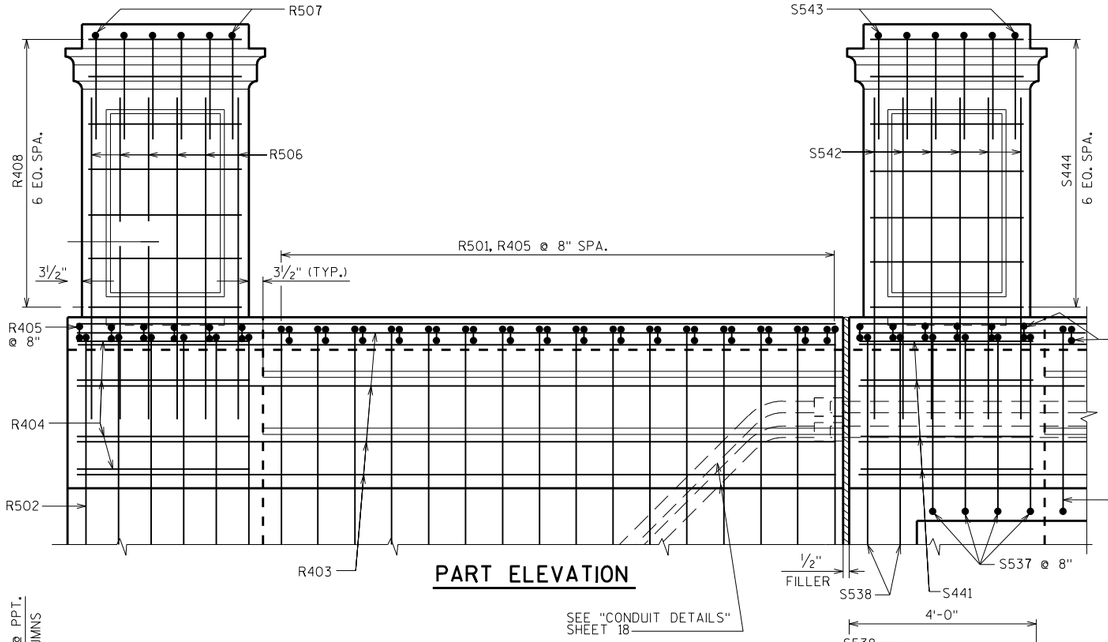
STATE PROJECT NUMBER

1206-00-72

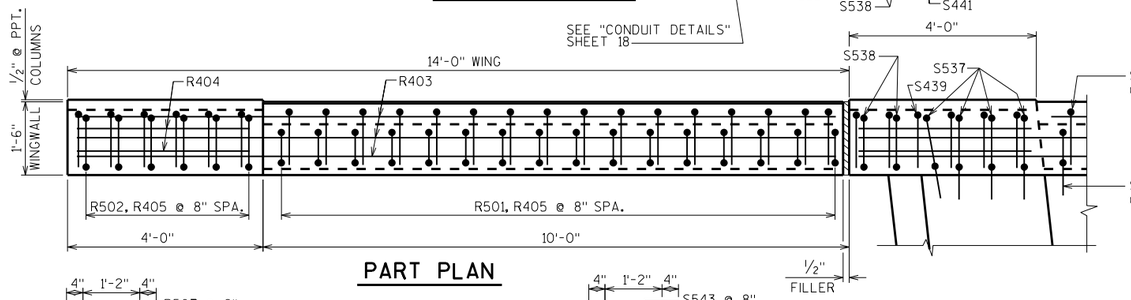
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

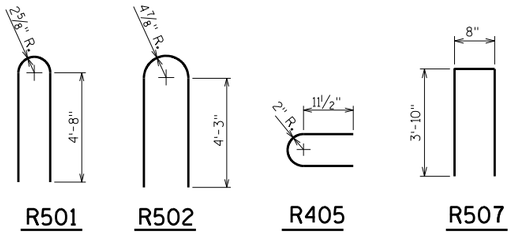
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	64	10'-0"	X		PARAPET-VERT.
R502	X	24	9'-11"	X		PARAPET-VERT.
R403	X	40	13'-8"			PARAPET-HORIZ.
R404	X	20	3'-8"			PARAPET-HORIZ.
R405	X	88	2'-6"	X		PARAPET-HORIZ. U-BAR-TOP
R506	X	48	6'-0"			PARAPET/COLUMN-VERT.
R507	X	24	8'-1"	X		COLUMN-VERT. U-BAR
R408	X	56	3'-1"			COLUMN-HORIZ.



PART ELEVATION

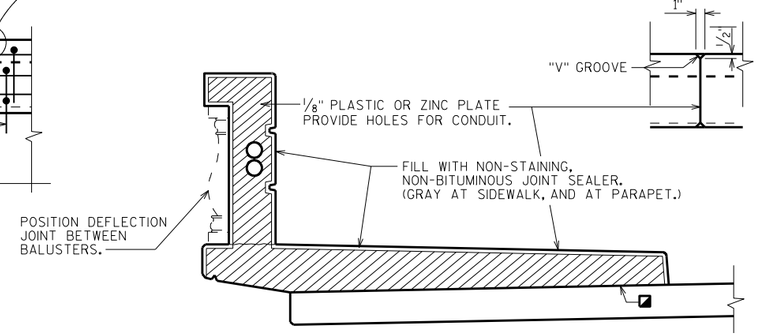


PART PLAN

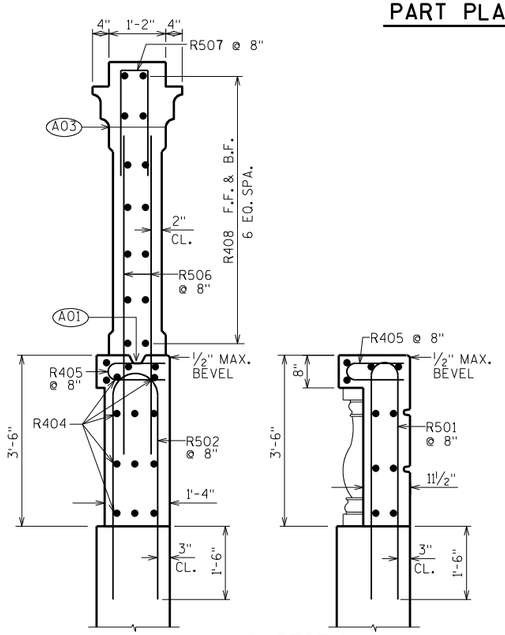


R501 R502 R405 R507

DEFLECTION JOINT TO BE PLACED AS NEAR AS POSSIBLE TO ℄ PIER OUTSIDE OF MEDALLION. (PLACE TO MISS RAIL BASE PLATE; PLACE BETWEEN BALUSTERS WHERE FORMLINER EXISTS.) CUT S426 AND S440 BARS IN THIS AREA TO MISS DEFLECTION JOINT.

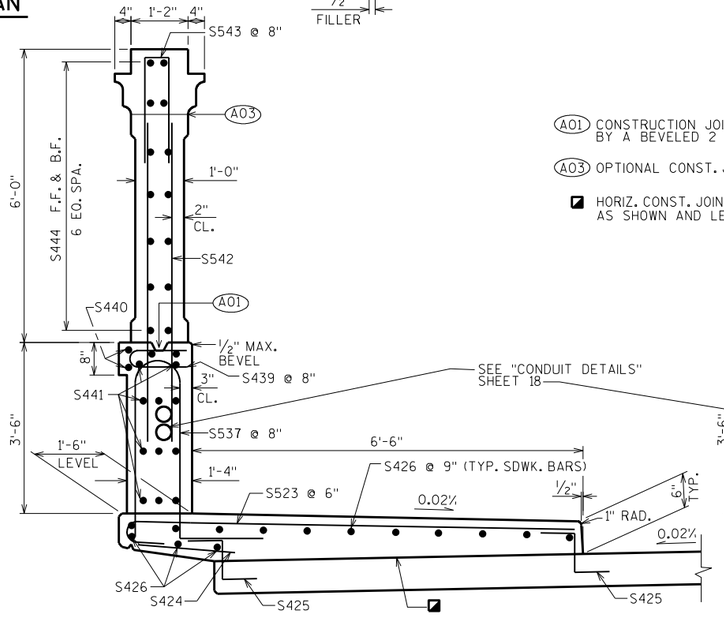


SECTION THRU DEFLECTION JOINT



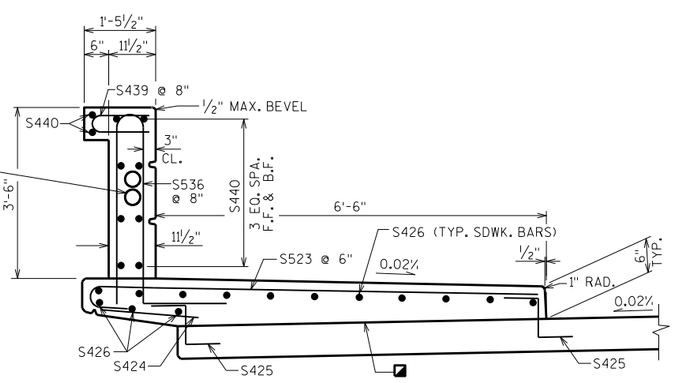
WING SECTIONS

BARS NOT LABELED ARE R403



SECTION THRU PPT. COLUMN ON DECK

BARS IN PARAPET NOT LABELED ARE S440



SECTION THRU PPT. ON DECK

A01 CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2 x 4.

A03 OPTIONAL CONST. JOINT. IF USED, LEAVE ROUGH.

HORIZ. CONST. JOINT- STRIKE OFF AS SHOWN AND LEAVE ROUGH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DVB | PLANS CK'D. BLB

PARAPET DETAILS 1

SHEET 16

984

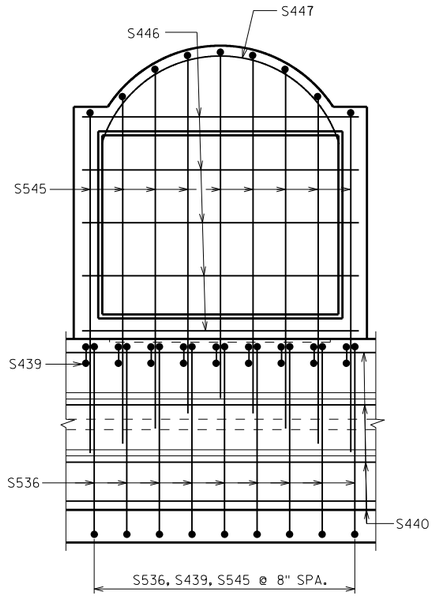
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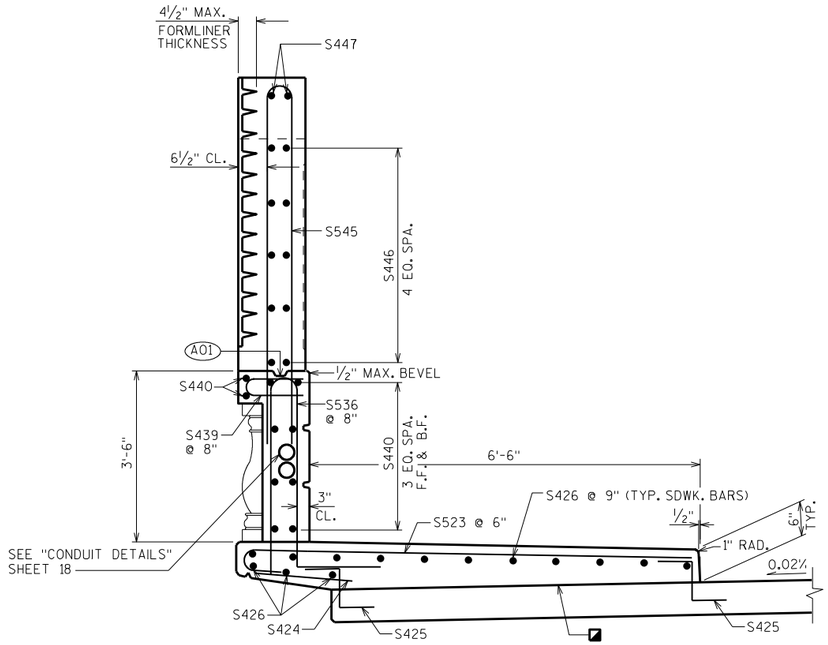
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STATE PROJECT NUMBER

1206-00-72



PART ELEVATION AT MEDALLION



SECTION THRU MEDALLION

(SEE ADDITIONAL DETAILS ON SHEET 22)

HORIZ. CONST. JOINT- STRIKE OFF AS SHOWN AND LEAVE ROUGH.

A01 CONSTRUCTION JOINT: KEYWAY FORMED BY A BEVELED 2 x 4.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DVB | PLANS CK'D. BLB

PARAPET DETAILS 2

SHEET 17

985

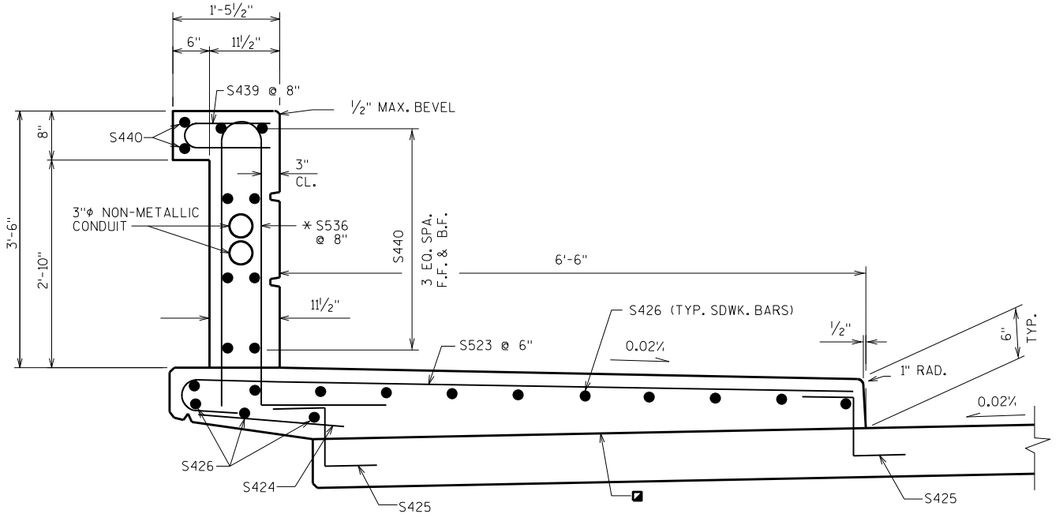
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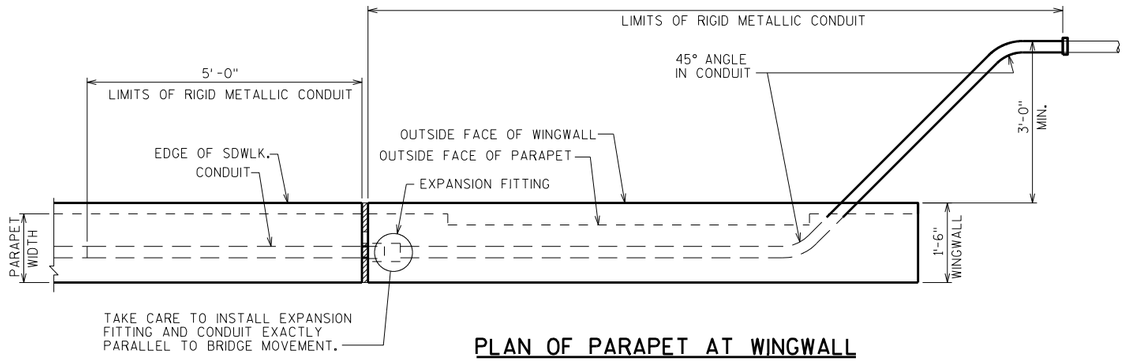
STATE PROJECT NUMBER

1206-00-72



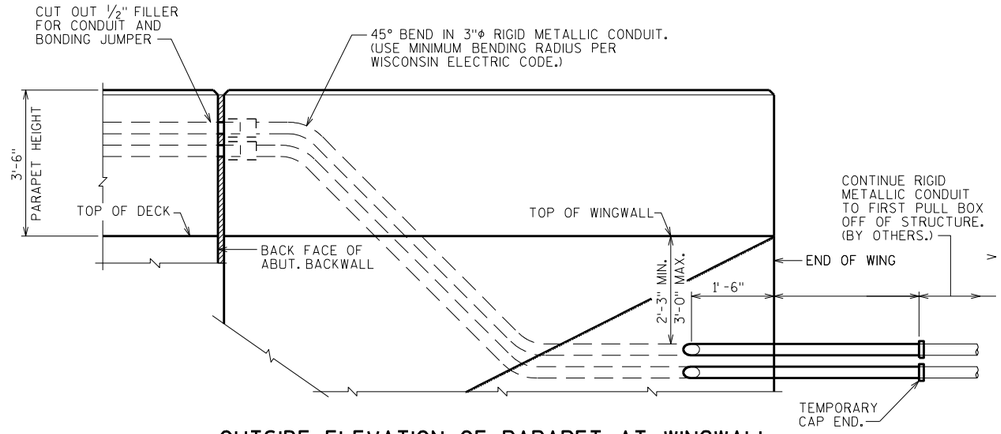
SECTION THRU PPT. ON DECK

◪ HORIZ. CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.



PLAN OF PARAPET AT WINGWALL

(AESTHETIC DETAILS, PPT. COLUMNS, AND RAILING NOT SHOWN FOR CLARITY)
(TYP. ALL WINGS)



OUTSIDE ELEVATION OF PARAPET AT WINGWALL

(AESTHETIC DETAILS, PPT. COLUMNS, AND RAILING NOT SHOWN FOR CLARITY)
(TYP. ALL WINGS)

* SEE "PARAPET DETAILS 1" SHT. 16 FOR ADDITIONAL BAR STEEL DETAILS.

NOTES

BID ITEMS SHALL BE:

"CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH"
"CONDUIT RIGID METALLIC 3-INCH".

APPROVED MANUFACTURER OR EQUIVALENT - EXPANSION FITTING:
O-Z/GEDNEY TYPE AX-200 AND BONDING JUMPER (4" TOTAL CONDUIT MOVEMENT).

EXPANSION FITTINGS, ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID METALLIC 3-INCH".

WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

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CONDUIT DETAILS

SHEET 18

986

SCALE = 1.0

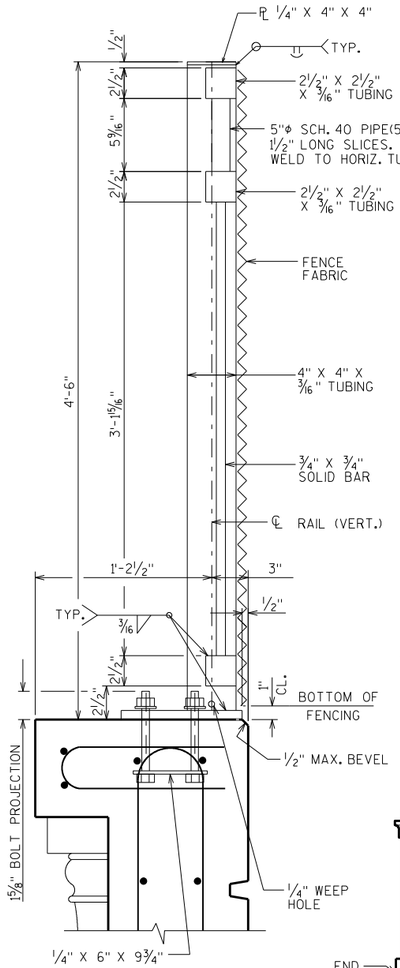
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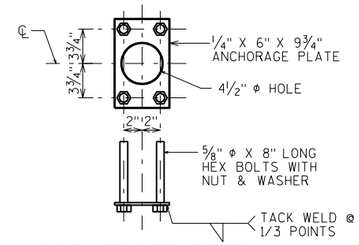
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STATE PROJECT NUMBER

1206-00-72

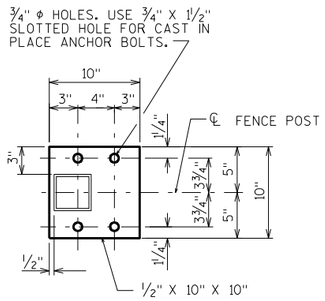


SECTION THRU RAILING

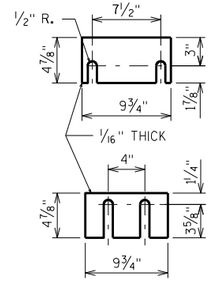


ANCHORAGE DETAIL

5/8" ϕ CONCRETE MASONRY ANCHOR, TYPE S EPOXY, 7" MINIMUM EMBEDMENT WITH A MINIMUM PULLOUT OF 20 KIPS MAY BE SUBSTITUTED FOR 5/8" CAST IN PLACE ANCHOR BOLTS. ANCHORAGE PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.

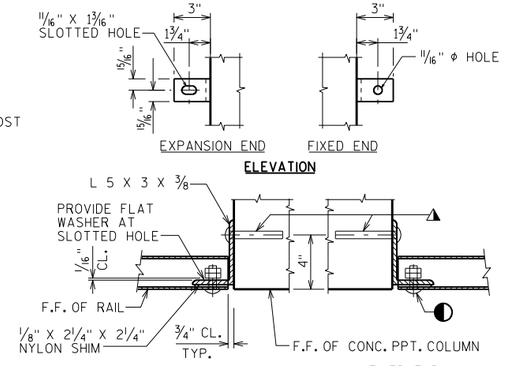


BASE PLATE



SHIM PLATE DETAILS

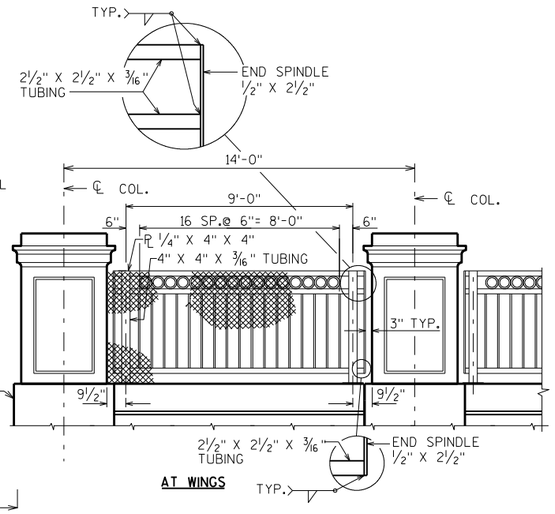
TWO SHIMS OF EACH SIZE REQUIRED PER POST



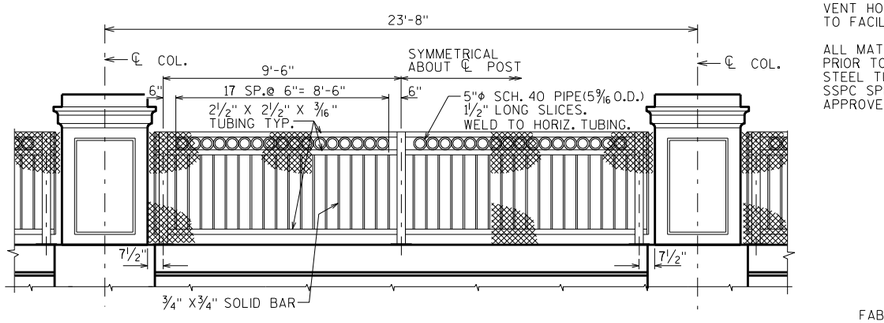
TOP RAIL CONNECTION DETAIL

◭ CONCRETE MASONRY ANCHORS, TYPE "S", 5/8-INCH., MINIMUM PULLOUT CAPACITY OF 14 KIPS. EMBED 5". EPOXY ANCHOR.

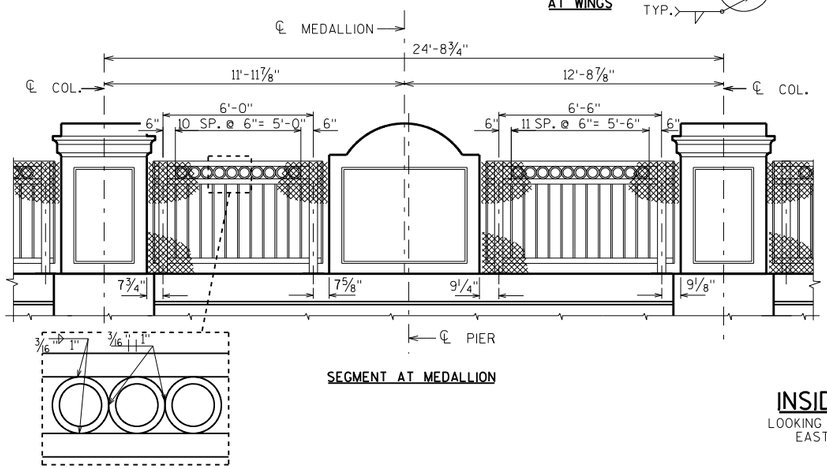
◐ 5/8" ϕ X 2" LONG STAINLESS STEEL ROUND HEAD-SQUARE NECK (CARRIAGE BOLT) AND 2 JAM NUTS OR LOCK NUTS.



AT WINGS



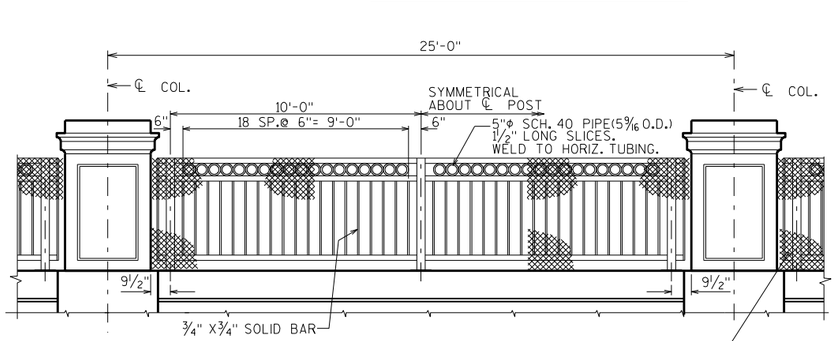
AT TYP. RAIL SEGMENT - SPAN 1 - (3 TOTAL)



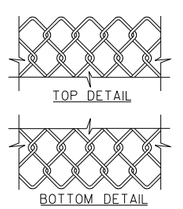
SEGMENT AT MEDALLION

INSIDE ELEVATION

LOOKING WEST AT WEST PARAPET
EAST PARAPET MIRRORED

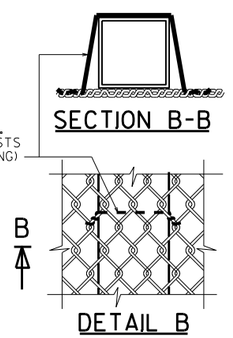


AT TYP. RAIL SEGMENT - SPAN 2 - (3 TOTAL)



FENCE FABRIC

5'-0" VINYL COATED FENCE FABRIC WOVEN OF 9-GAUGE WIRE IN 2" DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SELVAGES KNUCKLED.



SECTION B-B

DETAIL B

NOTES

BID ITEM SHALL BE "RAILING TUBULAR SCREENING GALVANIZED B-13-664" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILS AND POSTS TO BE A.S.T.M. A500, GRADE B. BASE PLATES AND SHIMS TO BE A.S.T.M. A709, GRADE 36. ALL GALVANIZED AFTER FABRICATION.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.

ALL POST SPA. ARE TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.

SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN TRANSVERSE DIRECTION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR A.S.T.M. 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.

RAILING TO BE PAINTED AND FENCE FABRIC AND TIES TO BE VINYL COATED. BLACK FEDERAL COLOR NO. 27038.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 POSTS.

THE END OF THE FABRIC SHALL BE ATTACHED TO THE POST BY MEANS OF A TENSION BAR THREADED THROUGH THE END LOOPS OF THE FABRIC AND SECURED TO THE POST WITH CLAMPS & BOLT. THE FABRIC SHALL BE STRETCHED TO REMOVE ALL SLACK.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING.

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING ALL STEEL RAILING POSTS AND STEEL TUBING SHALL BE GIVEN A #6 BLAST CLEANING BY SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DVB | PLANS CK'D. BLB

RAILING DETAILS

SHEET 19

987

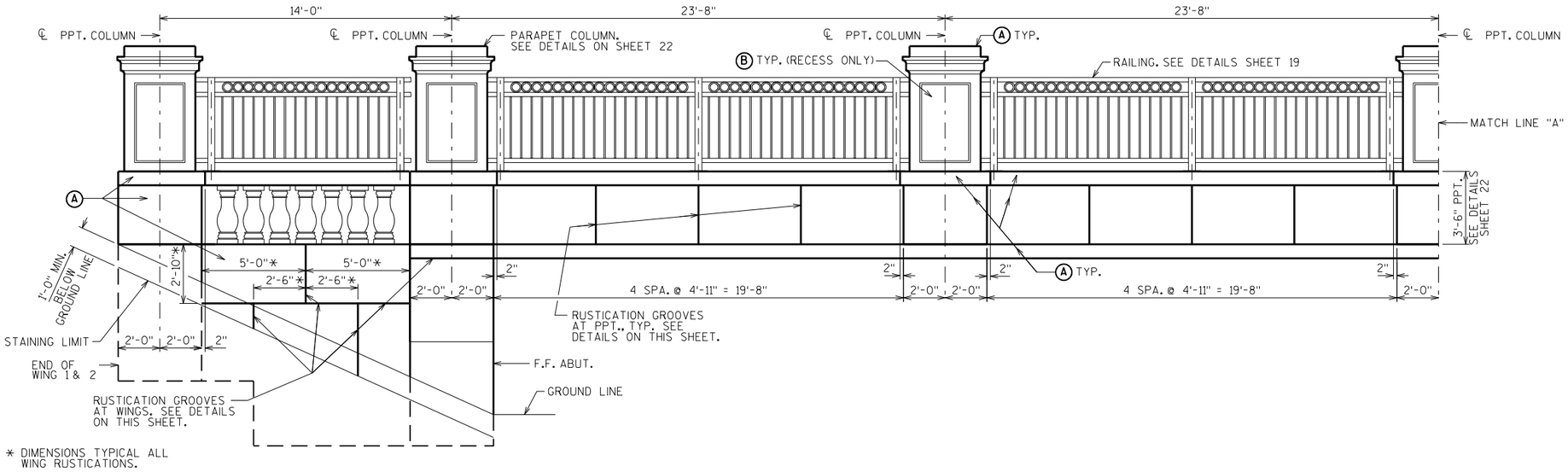
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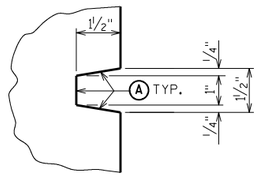
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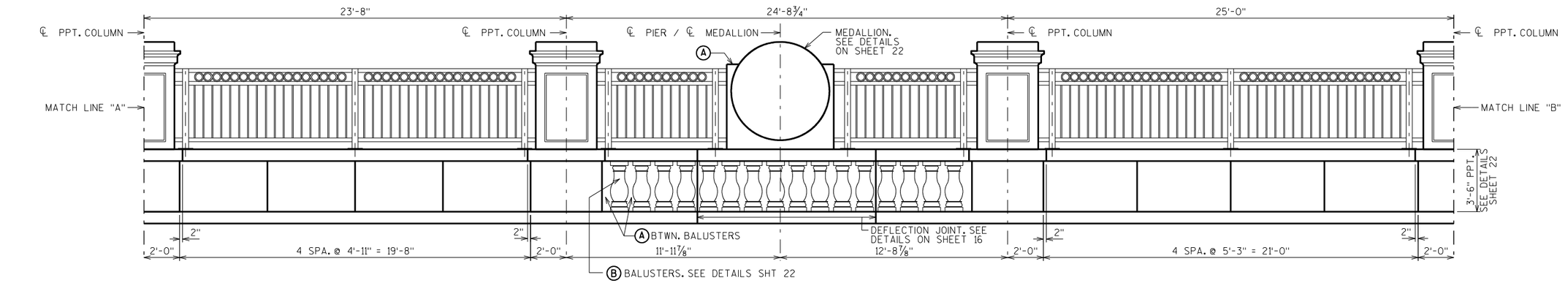
STATE PROJECT NUMBER

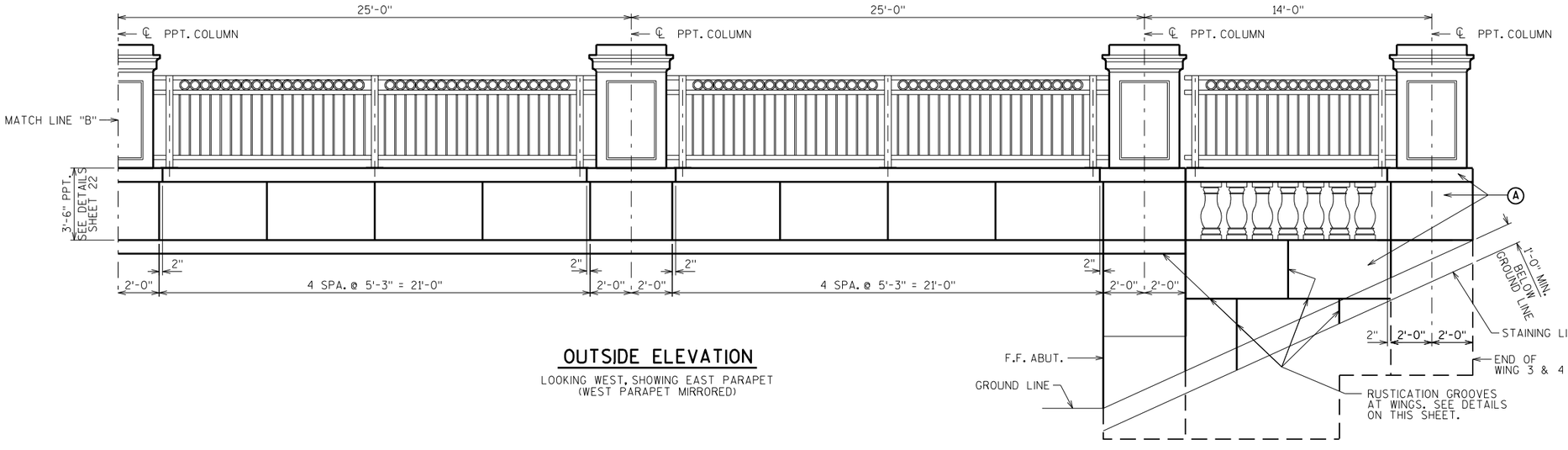
1206-00-72





RUSTICATION GROOVE DETAIL





OUTSIDE ELEVATION

LOOKING WEST, SHOWING EAST PARAPET (WEST PARAPET MIRRORED)

(A) BASE COLOR
MEDIUM GRAY FEDERAL COLOR # 36373

(B) PEARL GRAY FEDERAL COLOR # 26622

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DFD | PLANS CK'D. BLB

AESTHETIC DETAILS 1

SHEET 20

988

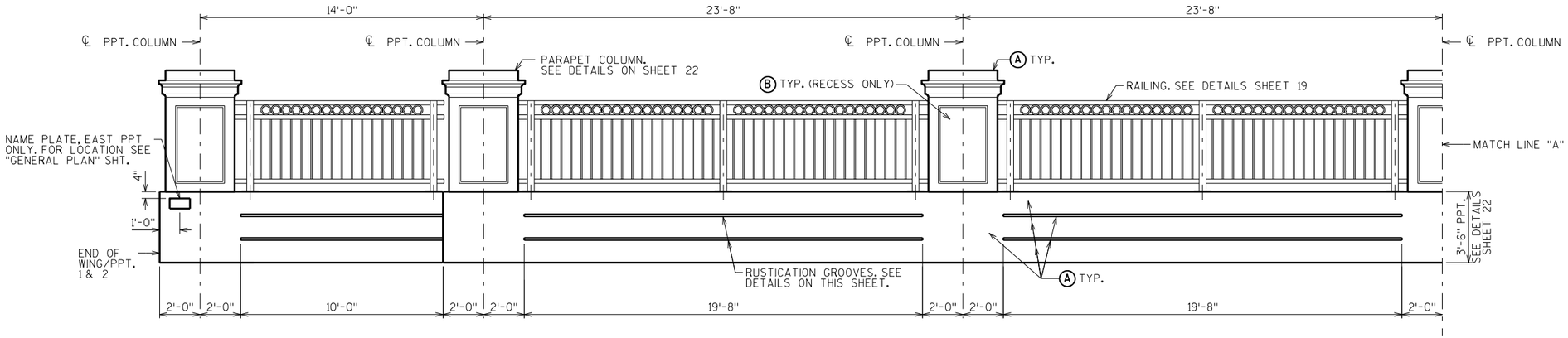
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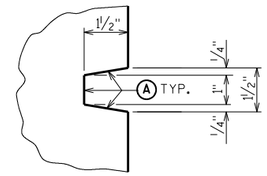
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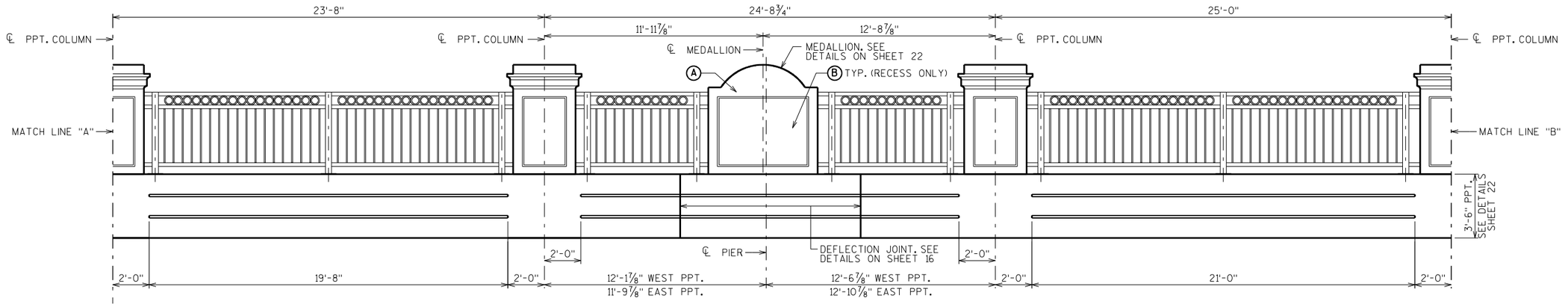
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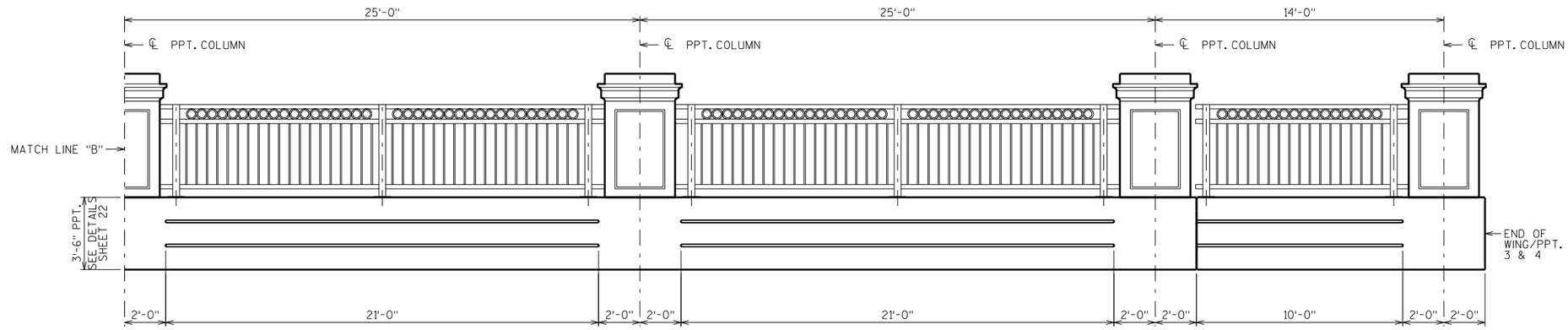
1206-00-72





RUSTICATION GROOVE DETAIL





INSIDE ELEVATION

LOOKING WEST, SHOWING WEST PARAPET
(EAST PARAPET MIRRORED)

Ⓐ BASE COLOR
MEDIUM GRAY FEDERAL COLOR # 36373

Ⓑ PEARL GRAY FEDERAL COLOR # 26622

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DFD | PLANS CK'D. BLB

AESTHETIC DETAILS 2

SHEET 21

989

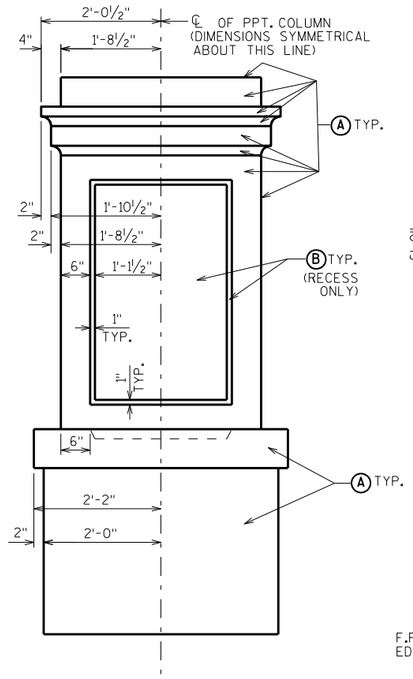
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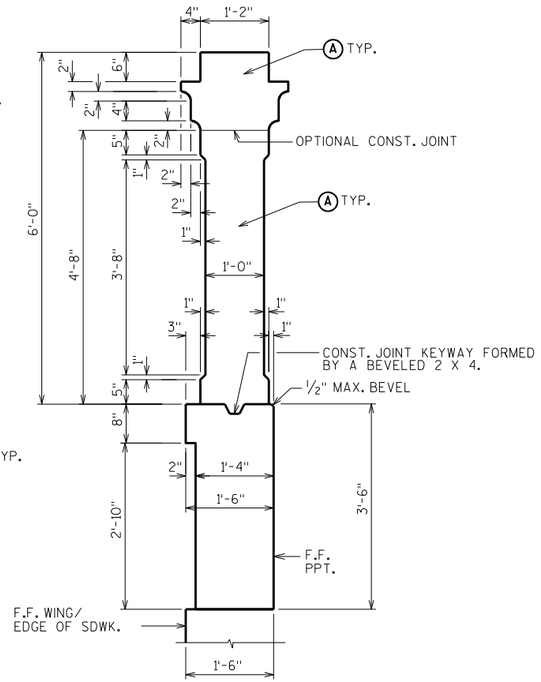
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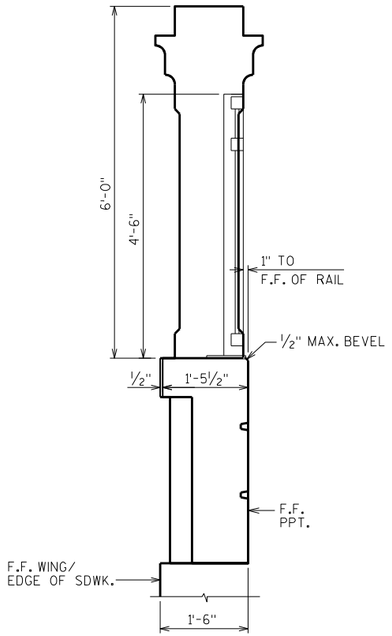
1206-00-72



PPT. COLUMN
OUTSIDE ELEVATION

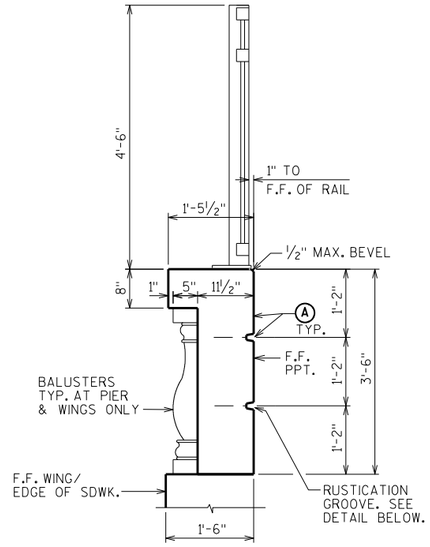


SECT. THRU PPT. COLUMN

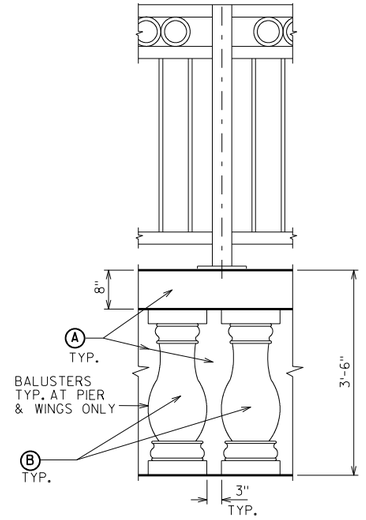


SECT. VIEWS STACKED

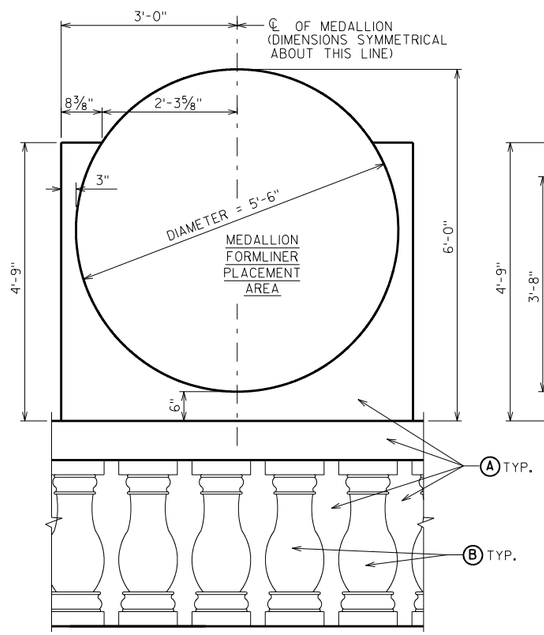
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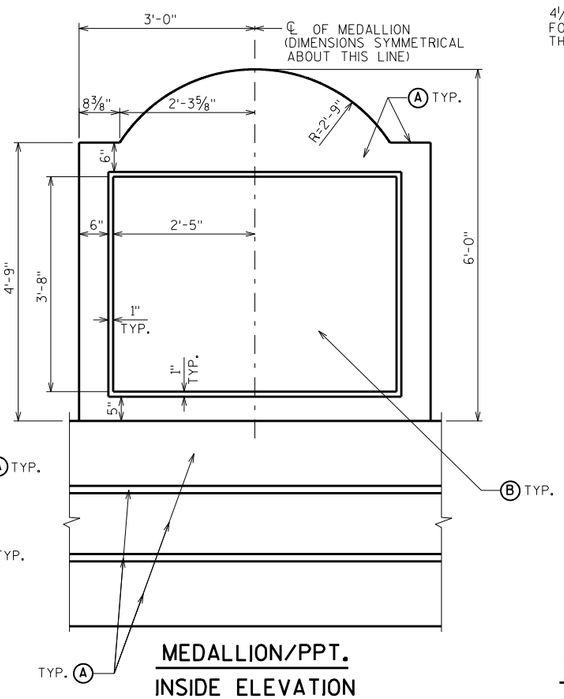
SECT. THRU PPT. BTWN. COLUMNS



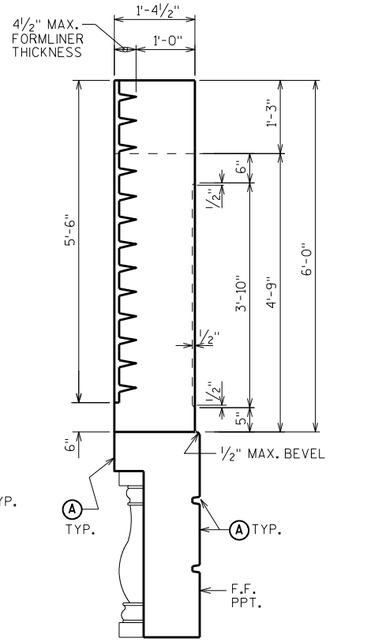
PPT. BTWN. COLUMNS
OUTSIDE ELEVATION



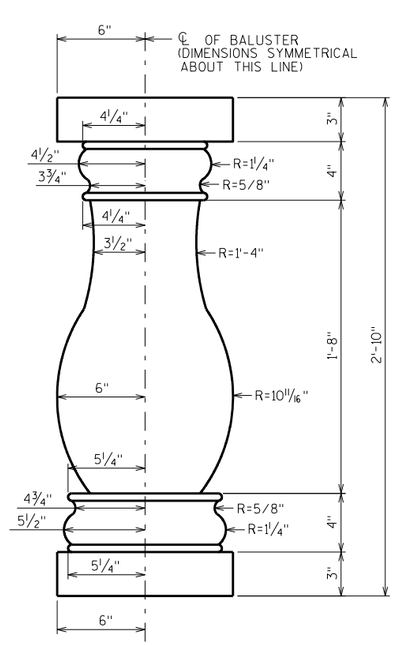
MEDALLION/PPT.
OUTSIDE ELEVATION



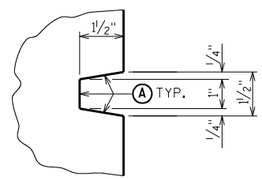
MEDALLION/PPT.
INSIDE ELEVATION



SECT. THRU MEDALLION/PPT.



BALUSTER DETAILS



RUSTICATION GROOVE DETAIL

A BASE COLOR
MEDIUM GRAY FEDERAL COLOR # 36373

B PEARL GRAY FEDERAL COLOR # 26622

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DFD | PLANS CK'D. BLB

AESTHETIC DETAILS 3

SHEET 22

990

SCALE = 1.25

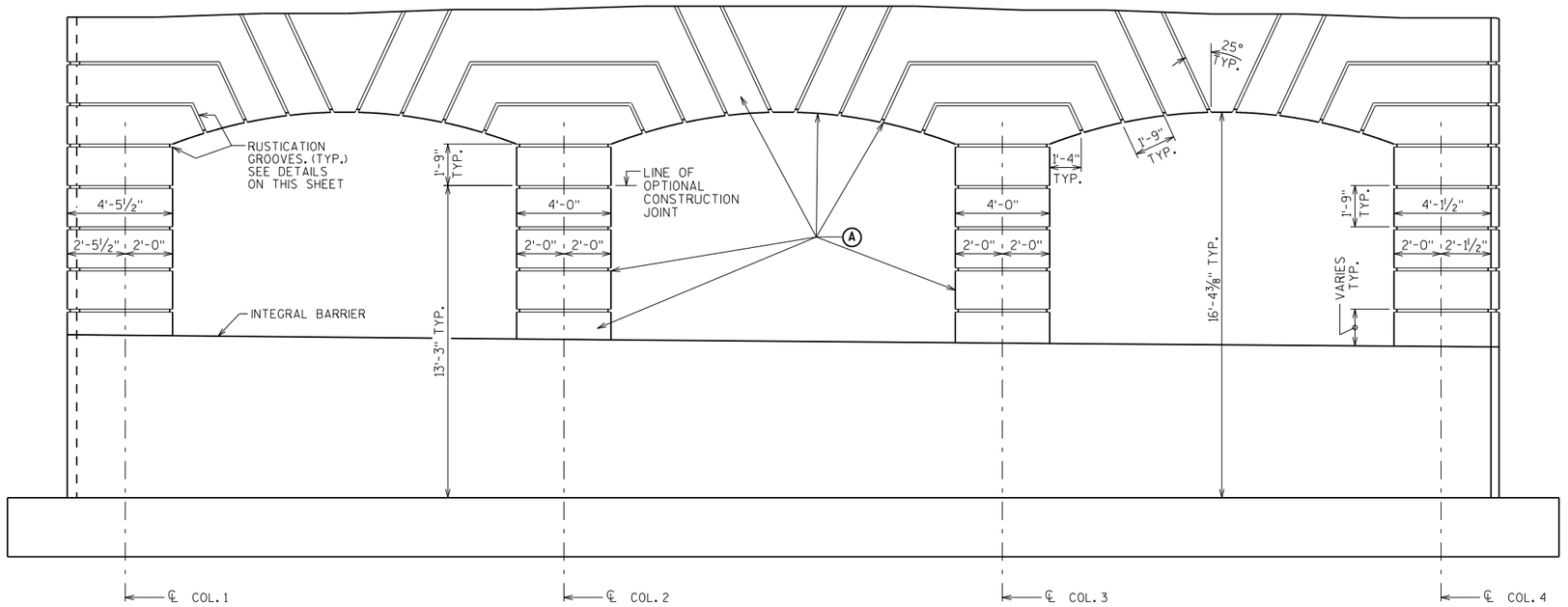
8

8

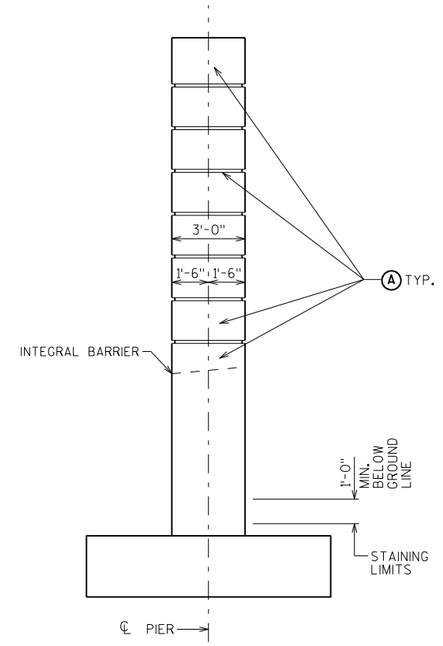
STATE PROJECT NUMBER
1206-00-72

NOTE:
ALL EXPOSED PIER SURFACES TO BE STAINED.

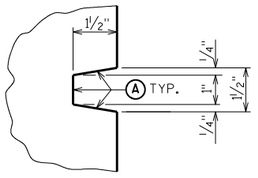
(A) BASE COLOR
MEDIUM GRAY FEDERAL COLOR # 36373



PIER ELEVATION
(LOOKING NORTH)



SIDE ELEVATION



RUSTICATION GROOVE DETAIL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DFD | PLANS CK'D. BLB

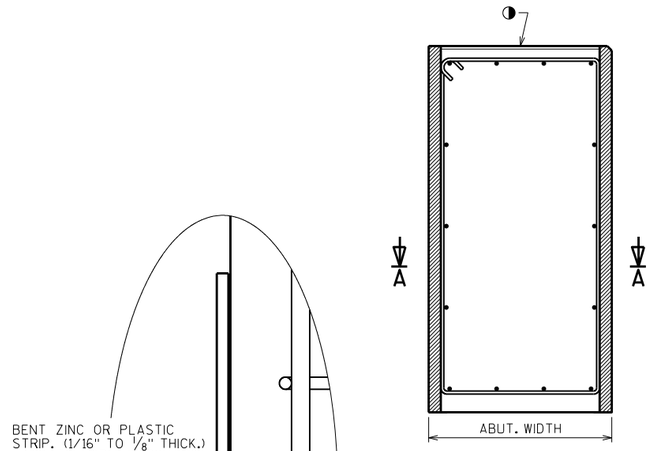
AESTHETIC DETAILS 4

SHEET 23

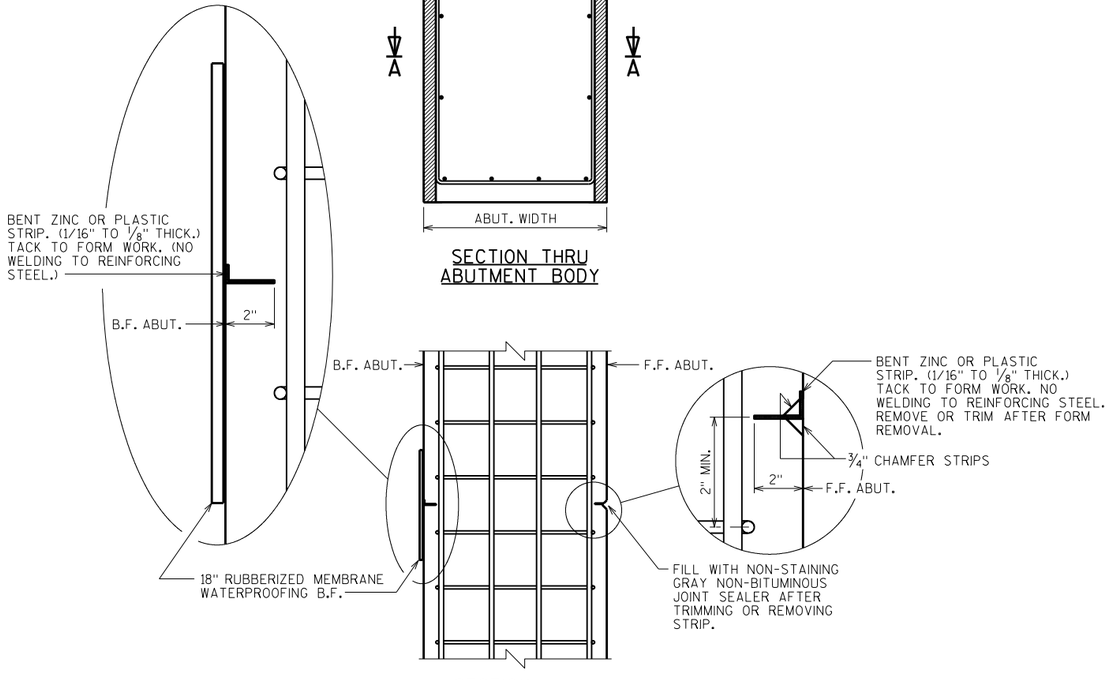
991

SCALE = 3.0

STATE PROJECT NUMBER
1206-00-72



SECTION THRU ABUTMENT BODY



SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DVB | PLANS CK'D. BLB

ALTERNATE CONSTRUCTION JOINT

SHEET 24

992

8

8

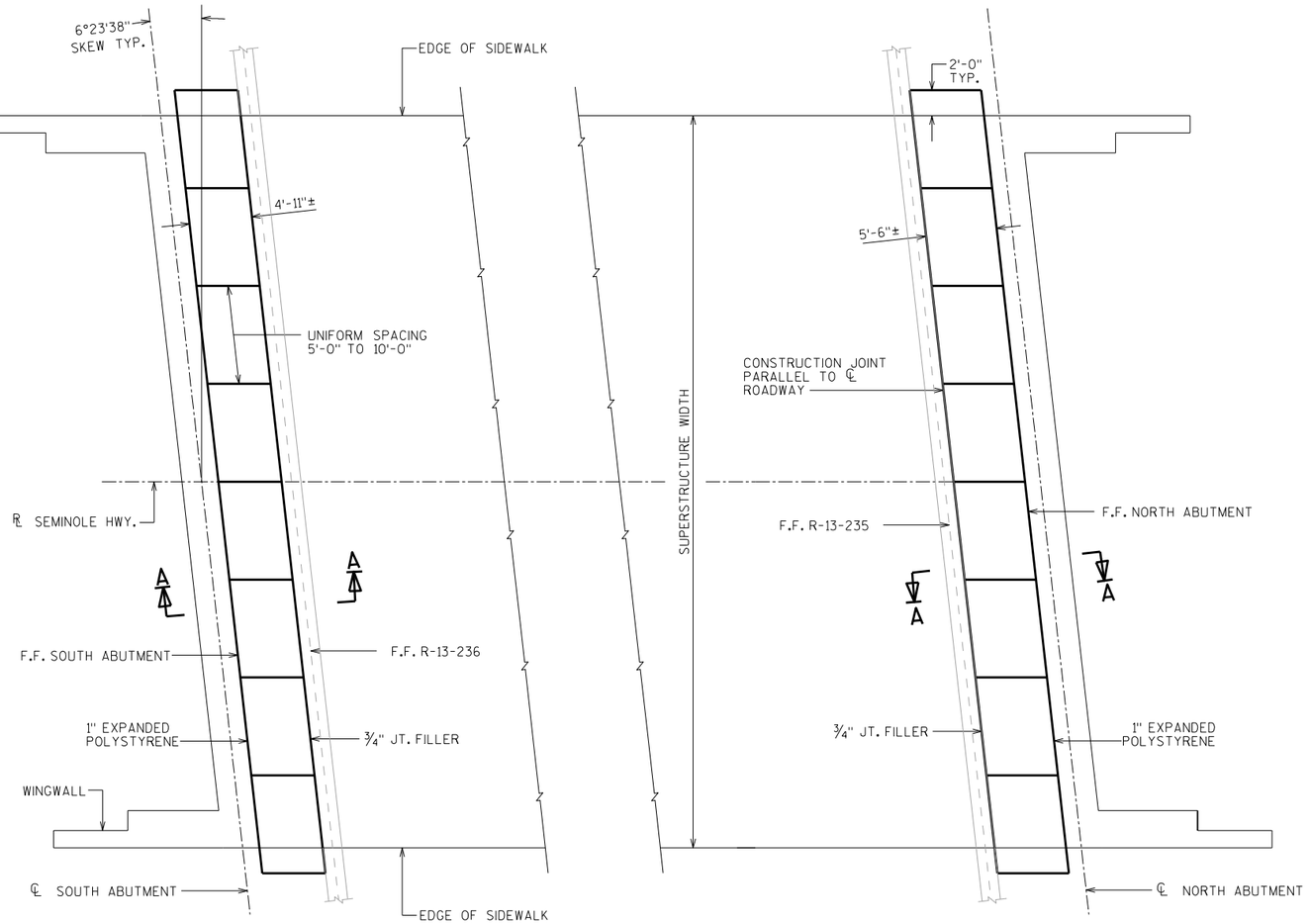
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SCALE = 1.0

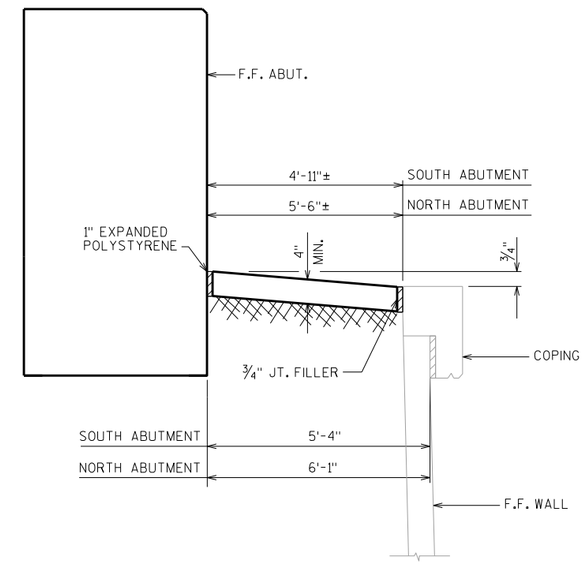
ALTJOINT
10-08

STATE PROJECT NUMBER

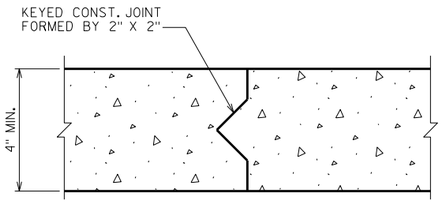
1206-00-72



PLAN



SECTION A-A



CONSTRUCTION JOINT

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN HEREON SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-664

DRAWN BY DVB | PLANS CK'D. BLB

SLOPE PAVING (CONCRETE CAST-IN-PLACE)

SHEET 25

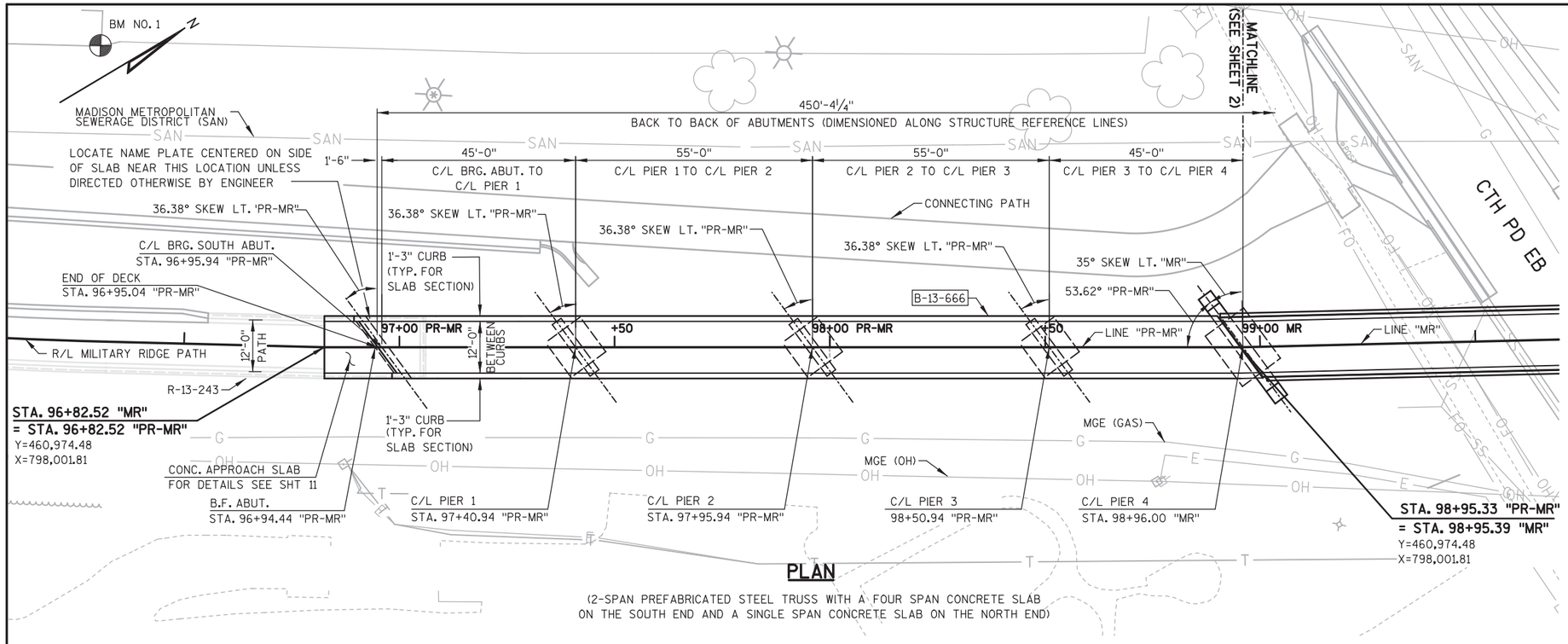
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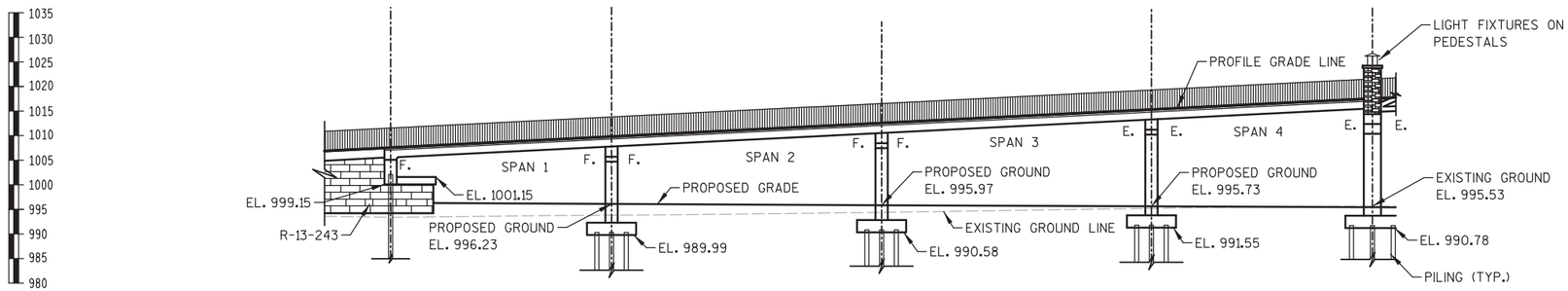
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SCALE = 1.0



PLAN

(2-SPAN PREFABRICATED STEEL TRUSS WITH A FOUR SPAN CONCRETE SLAB ON THE SOUTH END AND A SINGLE SPAN CONCRETE SLAB ON THE NORTH END)



ELEVATION

(NORMAL TO STRUCTURE, FACING WEST)

BENCHMARKS

NO.	STATION	DESCRIPTION	ELEV.
1	96+28.51 MR, 65.70' LT	TOP NUT OF FIRE HYDRANT	999.23
2	127+58.33 PD, 59.26' LT	TOP NUT OF FIRE HYDRANT	1000.94
3	124+01.27 PD, 65.12' LT	TOP NUT OF FIRE HYDRANT	1003.37

ESTIMATED STEEL TRUSS BRIDGE REACTIONS

LOAD TYPE	P (LBS.)	H (LBS.)	L (LBS.)
DEAD LOAD	59,000	---	---
UNIFORM LIVE LOAD, 90 psf	27,000	---	---
WIND UPLIFT, 20 psf WINDWARD/LEEWARD	-12,400/ -4,100	---	---
WIND HORIZ., 75 psf WINDWARD/LEEWARD	-20,500/ 20,500	46,800	---
SEISMIC	---	---	---
THERMAL	---	---	---

P = VERTICAL LOAD AT EACH BASE PLATE (4 PER BRIDGE)
H = HORIZONTAL LOAD AT EACH SPAN END (2 PER BRIDGE)
L = LONGITUDINAL LOAD AT FIXED BEARING (4 PER BRIDGE)
NOTES:
1. VALUES IN THIS TABLE ARE ESTIMATES. ACTUAL VALUES SHALL BE PROVIDED BY PREFABRICATED BRIDGE MANUFACTURER.
2. "+" INDICATES DOWNWARD LOAD
"-" INDICATES UPWARD LOAD

LIST OF DRAWINGS

1. GENERAL PLAN
2. GENERAL PLAN
3. CROSS SECTIONS & PROFILE GRADE
4. QUANTITIES & GEN. NOTES
5. SUBSURFACE EXPLORATION
6. SUBSURFACE EXPLORATION
7. SOUTH ABUTMENT
8. SOUTH ABUTMENT DETAILS
9. NORTH ABUTMENT
10. NORTH ABUTMENT DETAILS
11. ABUTMENT DETAILS
12. PIER 1 DETAILS
13. PIER 1 DETAILS
14. PIER 2 DETAILS
15. PIER 2 DETAILS
16. PIER 3 DETAILS
17. PIER 3 DETAILS
18. PIER 4 DETAILS
19. PIER 4 DETAILS
20. PIER 5 DETAILS
21. PIER 5 DETAILS
22. PIER 6 DETAILS
23. PIER 6 DETAILS
24. AESTHETIC DETAILS
25. SUPERSTRUCTURE SPAN 1-4 PLAN
26. TYPICAL SECTION SPAN 1-4
27. SUPERSTRUCTURE SPAN 1-4 DETAILS
28. SUPERSTRUCTURE SPAN 1-4 DETAILS
29. SUPERSTRUCTURE SPAN 7 PLAN
30. TYPICAL SECTION SPAN 7
31. SUPERSTRUCTURE SPAN 7 DETAILS
32. SUPERSTRUCTURE ELEVATIONS
33. EXPANSION DEVICE AT PIERS 4 & 6
34. EXPANSION DEVICE AT PIER 5
35. RAILING STEEL LAYOUT
36. RAILING STEEL LAYOUT
37. RAILING STEEL TYPE C3 MODIFIED DETAILS
38. RAILING STEEL SPECIAL DETAILS
39. PROTECTIVE SCREENING DETAILS

STATE PROJECT NUMBER

1206-07-83

DESIGN DATA

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY, SLAB _____ f'c = 4,000 psi
CONCRETE MASONRY, ALL OTHERS _____ f'c = 3,500 psi
HIGH STRENGTH BAR STEEL
REINFORCEMENT, GRADE 60 _____ fy = 60,000 psi
HIGH STRENGTH STRUCTURAL STEEL
ASTM A847, ASTM A588, ASTM A606,
OR ASTM A242 _____ fy = 50 ksi
STRUCTURAL CARBON STEEL
ASTM A36 _____ fy = 36 ksi

LIVE LOAD:

90 psf PEDESTRIAN LOAD
20,000 lb. VEHICLE LOAD (H-10)

WIND LOAD:

35 psf SUPERSTRUCTURE
(SPANS 2 AND 3 AS IF ENCLOSED)
20 psf UPLIFT SUPERSTRUCTURE (SPANS 2 AND 3)

FOUNDATION DATA:

THE SOUTH AND NORTH ABUTMENTS TO BE SUPPORTED ON STEEL PILING, HP 10-INCH X 42 LB. DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 80 TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 50' LONG AT THE SOUTH ABUT. AND 30' LONG AT NORTH ABUT.

PIERS 1, 2, AND 3 TO BE SUPPORTED ON STEEL PILING, HP 10-INCH X 42 LB. DRIVEN TO REQUIRED DRIVING RESISTANCE OF 140 TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 60' LONG AT PIER 1 AND 50' LONG AT PIERS 2 AND 3.

PIERS 4, 5, AND 6 TO BE SUPPORTED ON STEEL PILING, HP 10-INCH X 42 LB. DRIVEN TO REQUIRED DRIVING RESISTANCE OF 180 TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED 65' LONG AT PIER 4, 75' AT PIER 5 AND 70' AT PIER 6.

* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING THE MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC DATA:

CTH PD (MCKEE ROAD)

AADT: 20,800 (2012)
AADT: 26,800 (2032)
DESIGN SPEED: 45 MPH



SW REGION CONTACT:
MARK VESPERMAN (608) 246-7548

BRIDGE OFFICE CONTACT:
BILL DREHER (608) 266-8489

DESIGN CONSULTANT CONTACT:
BRETT OFTEDAHL (608) 251-4843

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher KAR 03/04/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-13-666

MILITARY RIDGE PATH OVER CTH PD

COUNTY	CITY
DANE	FITCHBURG

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

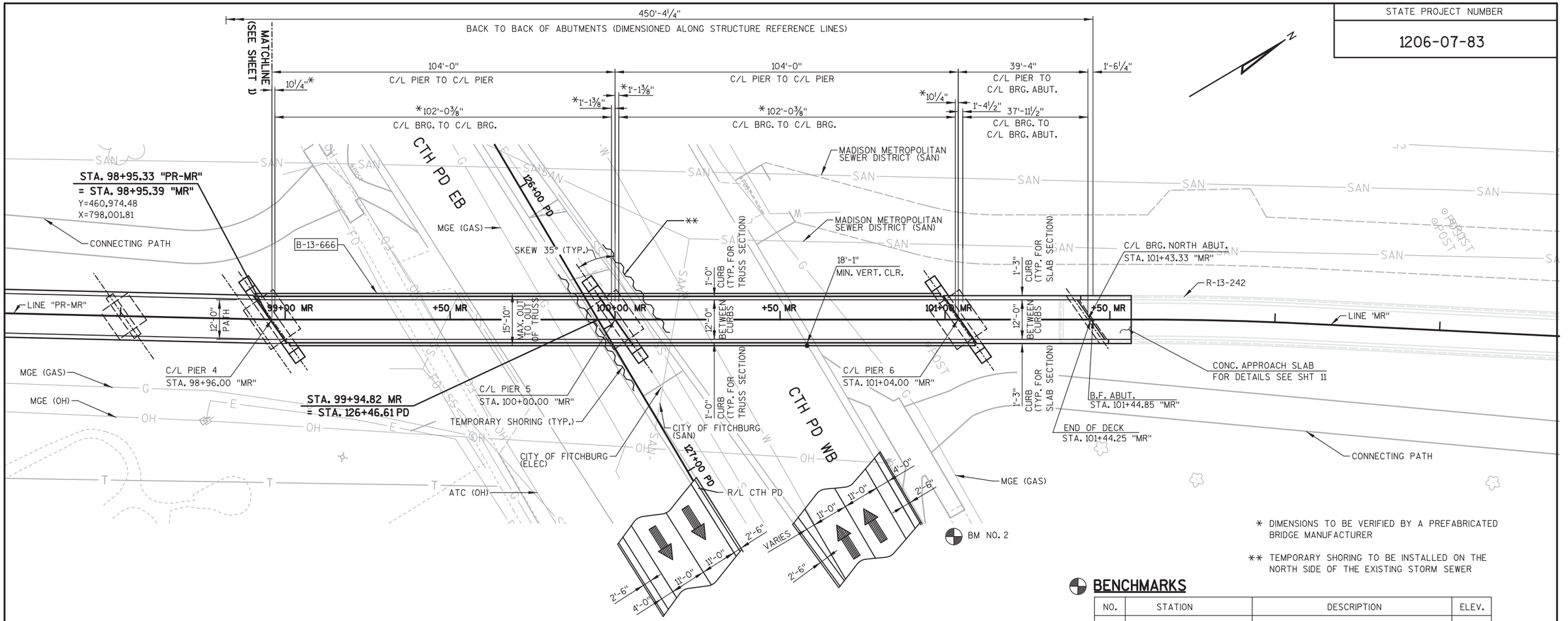
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
CMB	KRB	ACB	KRB

GENERAL PLAN

SHEET 1 OF 39
994

STATE PROJECT NUMBER

1206-07-83



* DIMENSIONS TO BE VERIFIED BY A PREFABRICATED BRIDGE MANUFACTURER

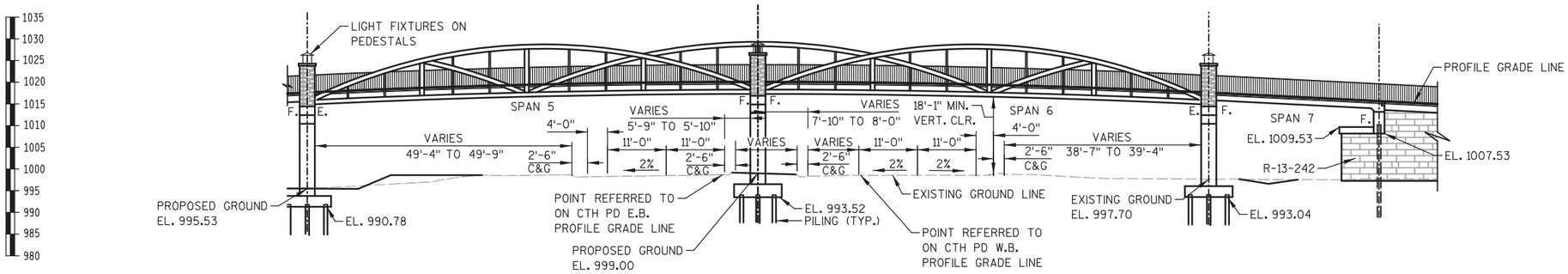
** TEMPORARY SHORING TO BE INSTALLED ON THE NORTH SIDE OF THE EXISTING STORM SEWER

PLAN

(2-SPAN PREFABRICATED STEEL TRUSS WITH A FOUR SPAN CONCRETE SLAB ON THE SOUTH END AND A SINGLE SPAN CONCRETE SLAB ON THE NORTH END)

BENCHMARKS

NO.	STATION	DESCRIPTION	ELEV.
1	96+28.51 MR, 65.70' LT	TOP NUT OF FIRE HYDRANT	999.23
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3	124+01.27 PD, 65.12' LT	TOP NUT OF FIRE HYDRANT	1003.37



ELEVATION

(NORMAL TO STRUCTURE, FACING WEST)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY BSB | PLANS CK'D. BMO

GENERAL PLAN

SHEET 2 OF 39

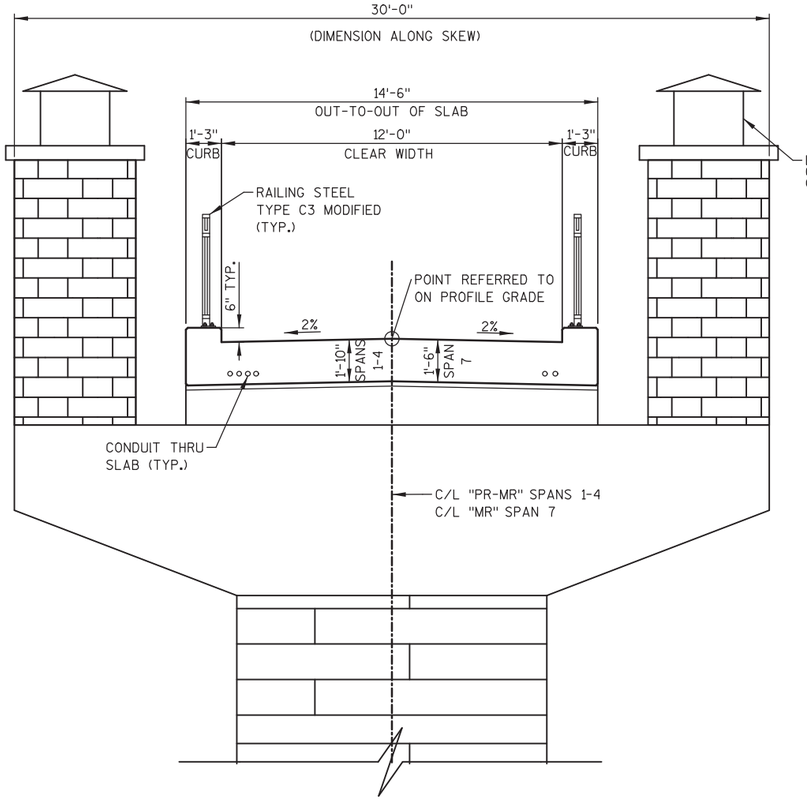
995

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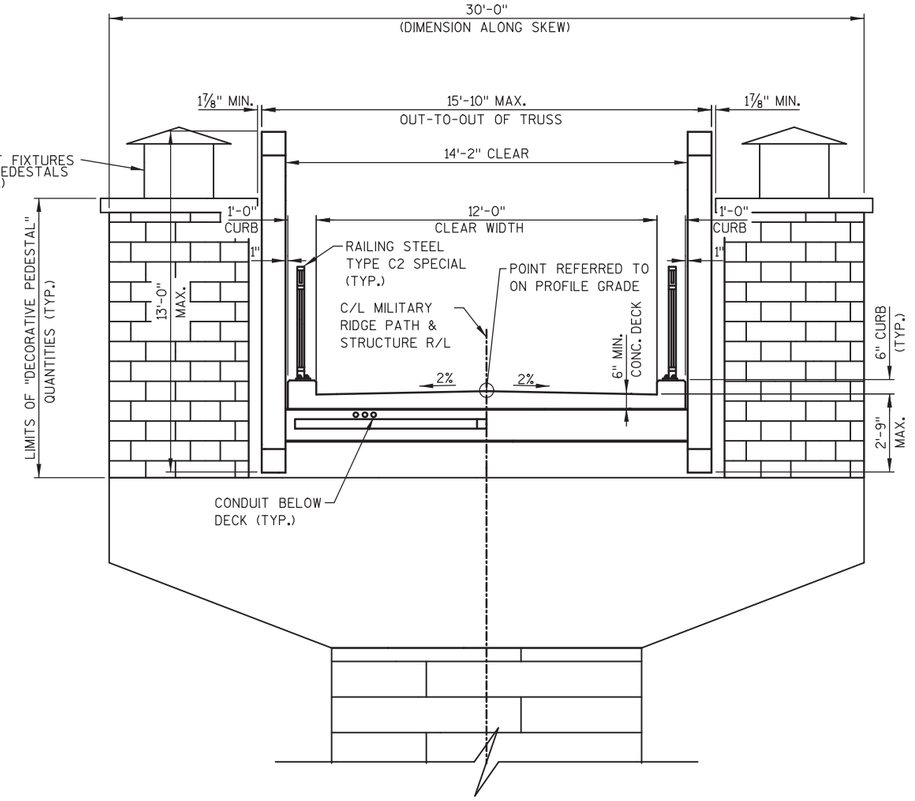
STATE PROJECT NUMBER

1206-07-83



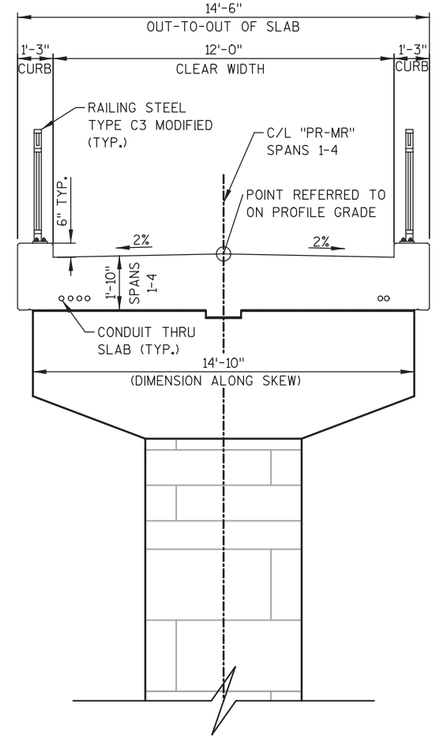
CROSS SECTION THRU SLAB STRUCTURE

(LOOKING NORTH THRU SPAN 4)



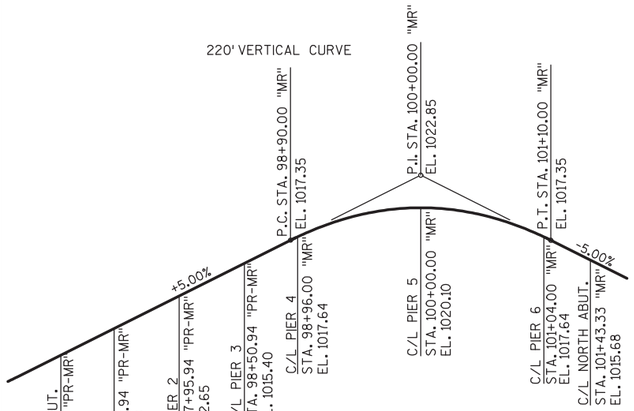
CROSS SECTION THRU TRUSS STRUCTURE

(LOOKING NORTH THRU SPAN 5)

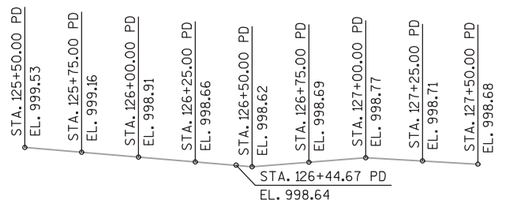


CROSS SECTION THRU SLAB STRUCTURE

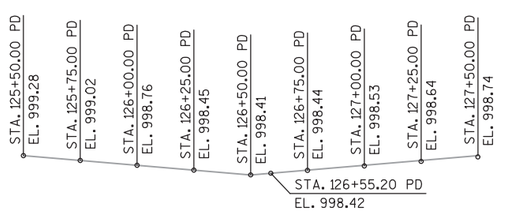
(LOOKING NORTH THRU SPAN 1)



PROFILE GRADE LINE MILITARY RIDGE PATH



EXISTING PROFILE GRADE LINE E.B. CTH PD



EXISTING PROFILE GRADE LINE W.B. CTH PD

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY ACB | PLANS CK'D. BMO

CROSS SECTIONS & PROFILE GRADE

SHEET 3 OF 39

996

STATE PROJECT NUMBER
1206-07-83

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	UNIT	SOUTH ABUTMENT	PIER 1	PIER 2	PIER 3	PIER 4	PIER 5	PIER 6	*DECORATIVE PEDESTALS	NORTH ABUTMENT	SUPERSTRUCTURE			TOTALS
												SPANS 1-4	SPANS 5-6	SPAN 7	
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-13-666	L.S.	---	---	---	---	---	---	---	---	---	---	---	---	1
206.6000.S	TEMPORARY SHORING	S.F.	---	---	---	---	---	392	---	---	---	---	---	---	392
210.0100	BACKFILL STRUCTURE	C.Y.	---	---	---	---	---	93	---	---	---	---	---	---	93
502.0100	CONCRETE MASONRY BRIDGES	C.Y.	9	20	21	22	57	56	54	27	9	211	---	37	523
502.3100	EXPANSION DEVICE B-13-666	L.S.	---	---	---	---	---	---	---	---	---	---	---	---	1
502.3200	PROTECTIVE SURFACE TREATMENT	S.Y.	---	---	---	---	---	---	---	---	---	495	349	97	941
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB.	1,020	1,230	1,230	1,230	1,530	1,530	1,530	---	1,010	---	---	---	10,310
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB.	40	3,210	3,390	3,520	9,570	9,290	9,110	2,820	30	36,290	---	6,930	84,200
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EA.	---	---	---	1	1	---	---	---	---	---	---	---	2
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	S.Y.	3	---	---	---	---	---	---	---	3	---	---	---	6
517.1010.S.02	CONCRETE STAINING B-13-666	S.F.	159	286	316	361	784	786	726	950	154	---	---	---	4,522
517.1050.S.02	ARCHITECTURAL SURFACE TREATMENT B-13-666	S.F.	---	119	149	195	371	392	313	784	---	---	---	---	2,323
550.1100	PILING STEEL HP 10-INCH x 42 LB	L.F.	150	480	400	400	520	600	560	---	90	---	---	---	3,200
604.0400	SLOPE PAVING CONCRETE	S.Y.	10	---	---	---	---	---	---	---	8	---	---	---	18
SPV.0105.17	RAILING STEEL TYPE C3 GALVANIZED PEDESTRIAN, B-13-666	L.S.	---	---	---	---	---	---	---	---	---	---	---	---	1
SPV.0105.20	RAILING STEEL SPECIAL GALVANIZED PEDESTRIAN, B-13-666	L.S.	---	---	---	---	---	---	---	---	---	---	---	---	1
SPV.0105.27	PAINTING EPOXY SYSTEM PEDESTRIAN BRIDGE B-13-666	L.S.	---	---	---	---	---	---	---	---	---	---	---	---	1
SPV.0105.28	PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-666, LRFD	L.S.	---	---	---	---	---	---	---	---	---	---	---	---	1
* SPV.0105.34	PEDESTRIAN BRIDGE DECORATIVE ARCH	L.S.	---	---	---	---	---	---	---	---	---	---	---	---	1
SPV.0180.02	CONCRETE APPROACH SLAB, 6-INCH	S.Y.	17	---	---	---	---	---	---	---	16	---	---	---	33
	NON BID - ITEM														
	FILLER	SIZE	---	---	---	---	---	---	---	---	---	---	---	---	3/4"
	EXPANDED POLYSTYRENE	SIZE	---	---	---	---	---	---	---	---	---	---	---	---	1"

* ITEMS INCLUDED IN CATEGORY 0020.
ALL OTHER ITEMS ARE CATEGORY 0030.

DECORATIVE PEDESTALS ARE LOCATED ON PIERS 4, 5 AND 6.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGE OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

EXCAVATION REQUIRED UNDER THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-13-666" IS NOT USED TO BALANCE THE EARTHWORK.

ALL BACKFILL FOR PIER 5 SHALL BE STRUCTURE BACKFILL.

THE TRUSS SPANS SHALL BE ANCHORED TO THE PIER IN A MANNER TO:

-ALLOW THERMAL MOVEMENTS OF THE SUPERSTRUCTURE ALONG C/L OF THE BIKE PATH

-PREVENT HORIZONTAL TRANSLATION OF THE SUPERSTRUCTURE PERPENDICULAR TO THE C/L OF THE BIKE PATH.

THE TRUSS SHALL BE CAMBERED TO OFFSET THE CALCULATED DEAD LOAD DEFLECTION PLUS AN AMOUNT EQUAL TO THE PROFILE GRADE LINE.

PROTECTIVE SCREENING, CONCRETE DECK AND REINFORCEMENT, CURBS, BEARINGS, AND ANCHOR BOLTS ARE INCLUDED IN THE BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE B-13-666 LRFD."

THE PAINT COLOR FOR THE STEEL TRUSS SHALL BE PANTONE MATCHING SYSTEM COLOR PMS 364(GREEN).

TRUSS AND CONCRETE DECK SHALL BE DESIGNED TO ACCOMMODATE A 1 3/4-INCH STRIP SEAL JOINT AT PIERS 4, 5 & 6. THEREFORE THE TRUSS FABRICATOR SHALL COORDINATE WITH THE JOINT MANUFACTURER TO OBTAIN NECESSARY JOINT AND ANCHORAGE DETAILS. SEE SHEETS 33 & 34 FOR GENERAL JOINT INFORMATION.

ALL ITEMS ASSOCIATED WITH THE BRIDGE LIGHTING ARE INCLUDED IN THE ROADWAY BID ITEMS. CONDUIT LOCATIONS SHOWN ON THE BRIDGE PLANS ARE PROVIDED FOR GENERAL INFORMATION ONLY. SEE LIGHTING PLANS FOR ADDITIONAL INFORMATION. CONDUIT STUBS FOR LED HANDRAIL LIGHTING MUST BE LOCATED PRECISELY TO CORRESPOND WITH THE RAILING POST BASE PLATE LOCATION.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE TOP OF DECK SURFACE AND THE TOP AND FRONT FACE OF THE CURB FOR THE SPANS 5 AND 6. APPLY PROTECTIVE SURFACE TREATMENT TO DECK, CURB, EDGES, AND BOTTOM OF SLAB AS DETAILED FOR ALL OTHER SPANS.

WALLS R-13-242 AND R-13-243 WILL BE CONSTRUCTED CONCURRENTLY WITH BRIDGE B-13-666. CONSTRUCTION SEQUENCE FOR THE MSE WALL AND SOIL REINFORCEMENT MUST BE COORDINATED WITH ABUTMENT CONSTRUCTION.

SLAB FALSE WORK FOR SPANS 1, 2, 3, 4 AND 7 SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

ALL DETAILS, MATERIALS AND FABRICATION SHALL CONFORM TO THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, 2013 EDITION.

FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATORS M153 TYPES I, II, OR III OR AASHTO DESIGNATOR M213.

ALIGNMENT "PR-MR" IS A REFERENCE LINE USED TO LAY OUT SPANS 1 THRU 4 ON A TANGENT. THE BRIDGE ALIGNMENT DEFLECTS AT PIER 4 WHERE "PR-MR" INTERSECTS ALIGNMENT "MR". ALIGNMENT "MR" IS THE MILITARY RIDGE PATH REFERENCE LINE AND IS USED TO LAY OUT SPANS 5-7. ALL PIERS ARE PARALLEL TO ONE ANOTHER BUT THE SKEWS SHOWN ON THE GENERAL PLAN ARE DIFFERENT BECAUSE PIERS 1-4 ARE REFERENCED TO ALIGNMENT "PR-MR" NOT "MR".

DECORATIVE ARCH, INTERMEDIATE ARCHES, AND TOP CHORD MUST BE HSS TUBES OF THE SAME WIDTH AND DEPTH BUT MAY HAVE DIFFERENT WALL THICKNESSES.

TRUSSES SHALL BE DESIGNED AS SIMPLE SPANS BETWEEN PIERS. ARCHES SHALL BE FABRICATED TO A PARABOLIC CURVE.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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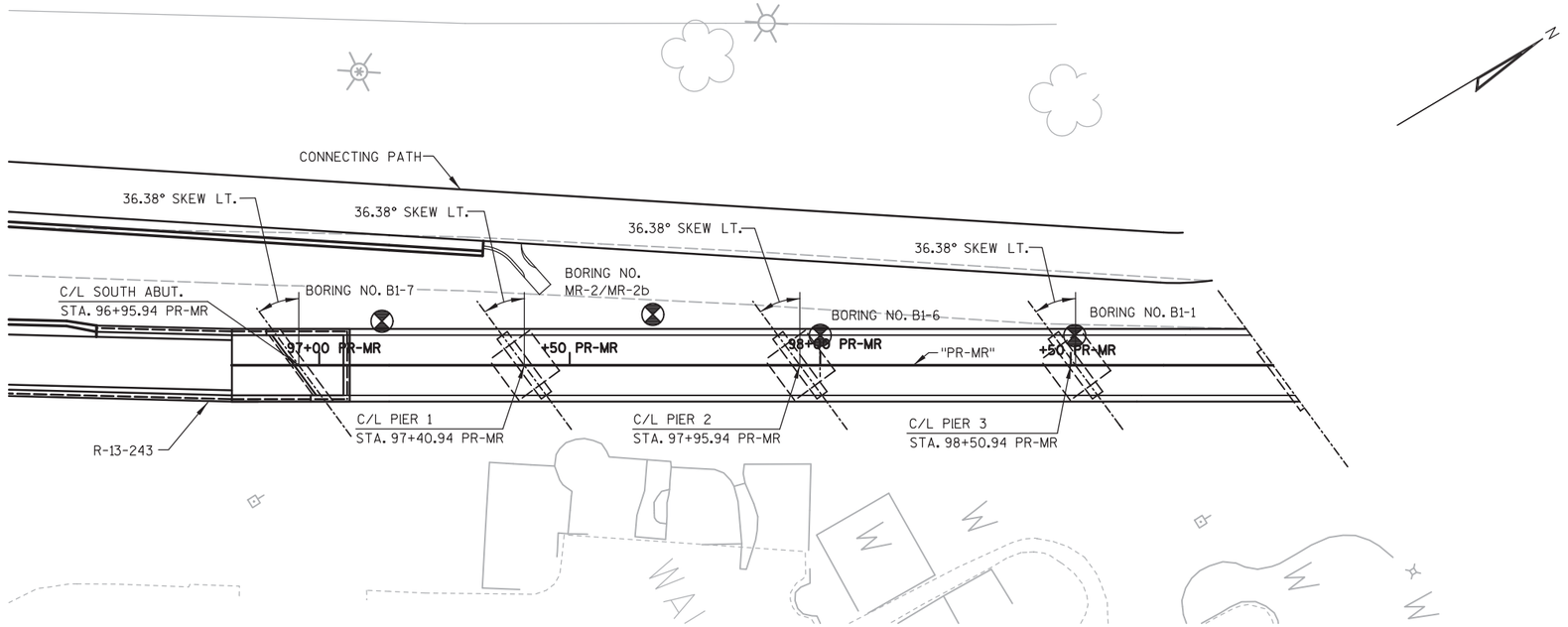
QUANTITIES & GEN. NOTES

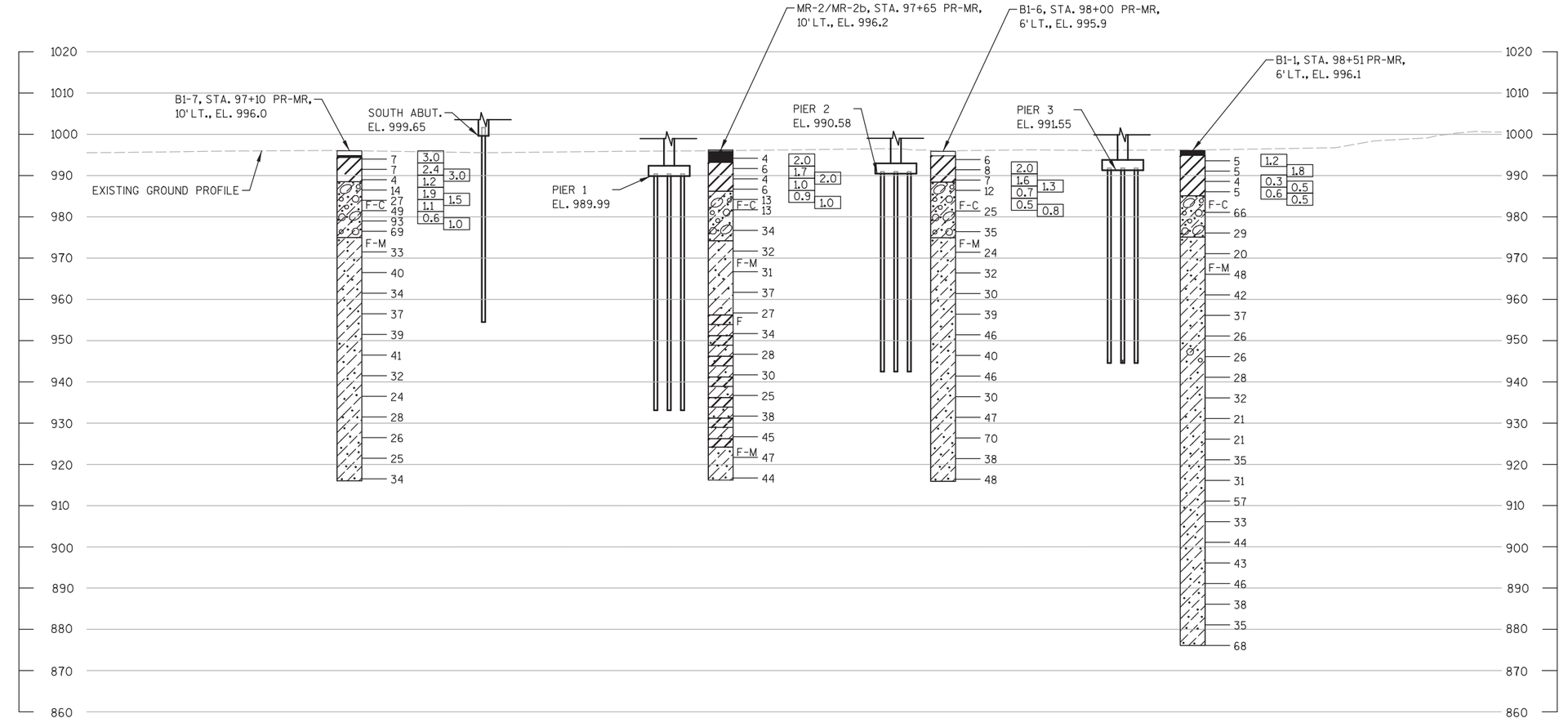
SHEET 4 OF 39
997

BORINGS PERFORMED BY:

SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WISCONSIN 53713

BORING #B1-1 DRILL DATE: 11/7/12
BORING #B1-2 DRILL DATE: 11/7/12
BORING #B1-3 DRILL DATE: 11/12/12
BORING #B1-4 DRILL DATE: 11/1/12
BORING #B1-5 DRILL DATE: 11/6/12
BORING #B1-6 DRILL DATE: 12/31/2012
BORING #B1-7 DRILL DATE: 1/16/2013
BORING #MR-2 DRILL DATE: 12/1/2012
BORING #MR-2b DRILL DATE: 1/8/2013





STATE PROJECT NUMBER

1206-07-83

ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING

PROBING NO.
STA.
ELEVATION
7 AVERAGE BLOWS PER FOOT
REFUSAL 95/6

95/6=95 BLOWS FOR 6" PENETRATION
PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING

BORING NO.
ELEV.
STA.
UNCONFINED STRENGTH — 7.7 7
SANDY GRAVEL
BLOWS PER FT. USING 140# WT. FALLING 30"
WASH SAMPLE
F. BOULDERS OR COBBLES
SHELBY TUBE — S.T.
SAND
GROUND WATER ELEVATION
SILTY CLAY
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SO LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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SUBSURFACE EXPLORATION

SHEET 5 OF 39
998

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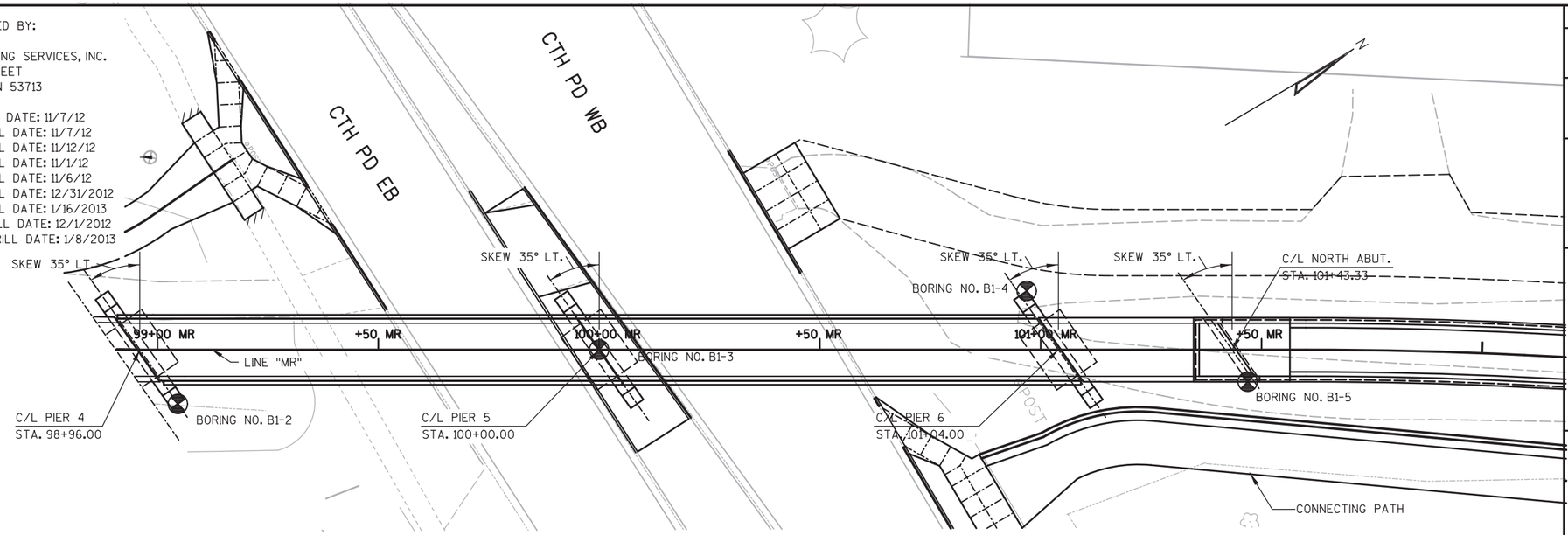
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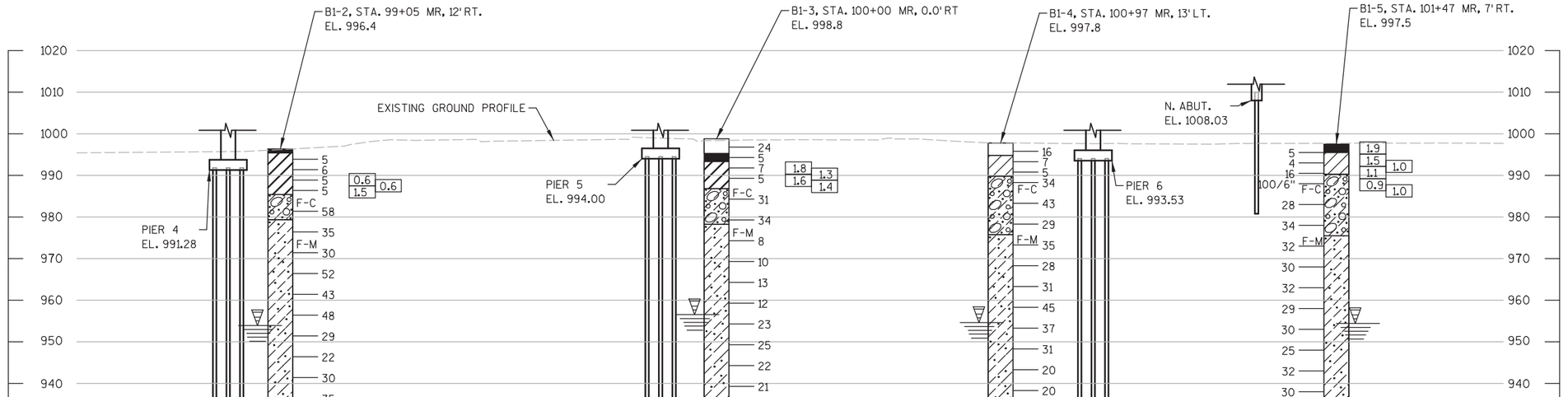
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BORINGS PERFORMED BY:

SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WISCONSIN 53713

BORING *B1-1 DRILL DATE: 11/7/12
BORING *B1-2 DRILL DATE: 11/7/12
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BORING *B1-4 DRILL DATE: 11/1/12
BORING *B1-5 DRILL DATE: 11/6/12
BORING *B1-6 DRILL DATE: 12/31/2012
BORING *B1-7 DRILL DATE: 1/16/2013
BORING *MR-2 DRILL DATE: 12/1/2012
BORING *MR-2b DRILL DATE: 1/8/2013





STATE PROJECT NUMBER

1206-07-83

ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
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MATERIAL SYMBOLS

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LEGEND OF PROBING

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7 AVERAGE BLOWS PER FOOT
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95/6=95 BLOWS FOR 6" PENETRATION PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING

BORING NO.
STA.
ELEV.
UNCONFINED STRENGTH — 7.7 7
BLOWS PER FT. USING 140# WT. FALLING 30"
WASH SAMPLE
SHELBY TUBE — S.T.
GROUND WATER ELEVATION
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SANDY GRAVEL
F. BOULDERS OR COBBLES
SAND
SILTY CLAY
SO LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY BSB | PLANS CK'D. BMO

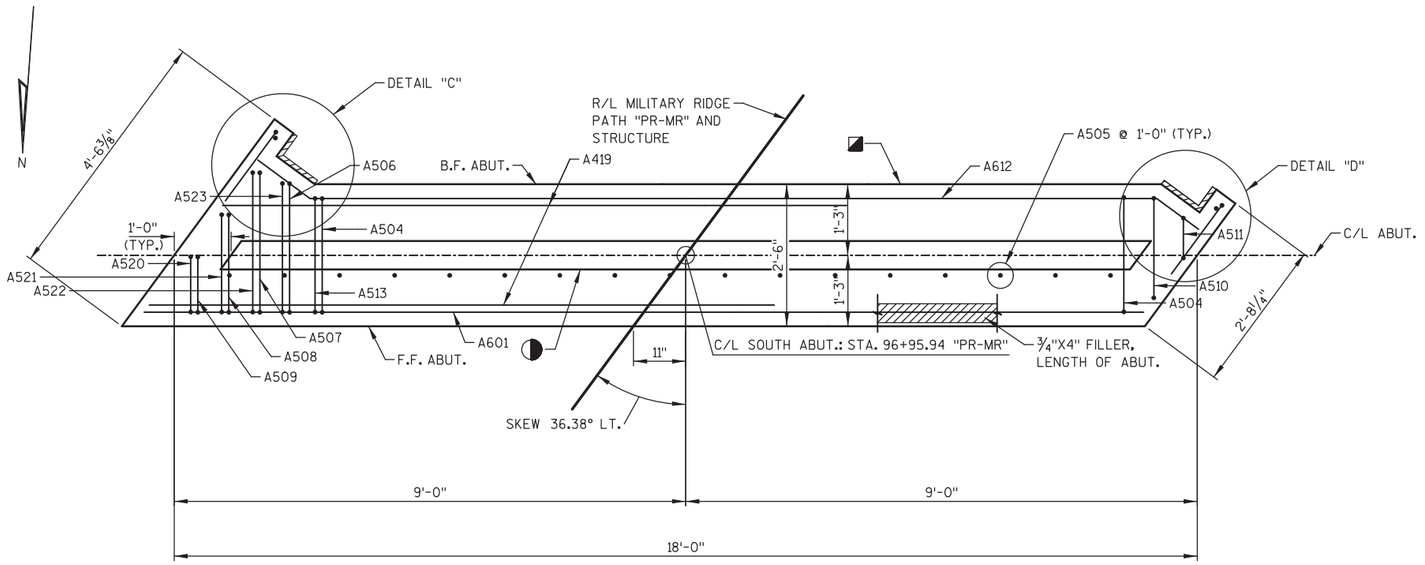
SUBSURFACE EXPLORATION

SHEET 6 OF 39

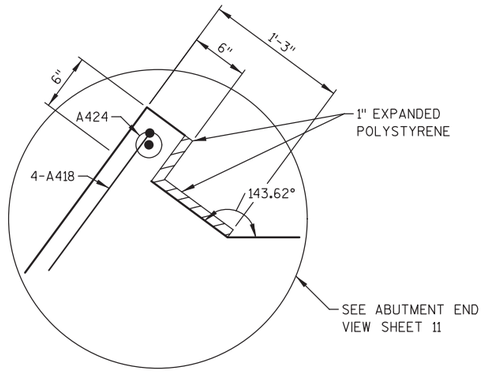
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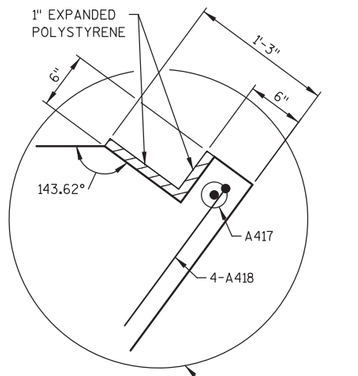
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1206-07-83



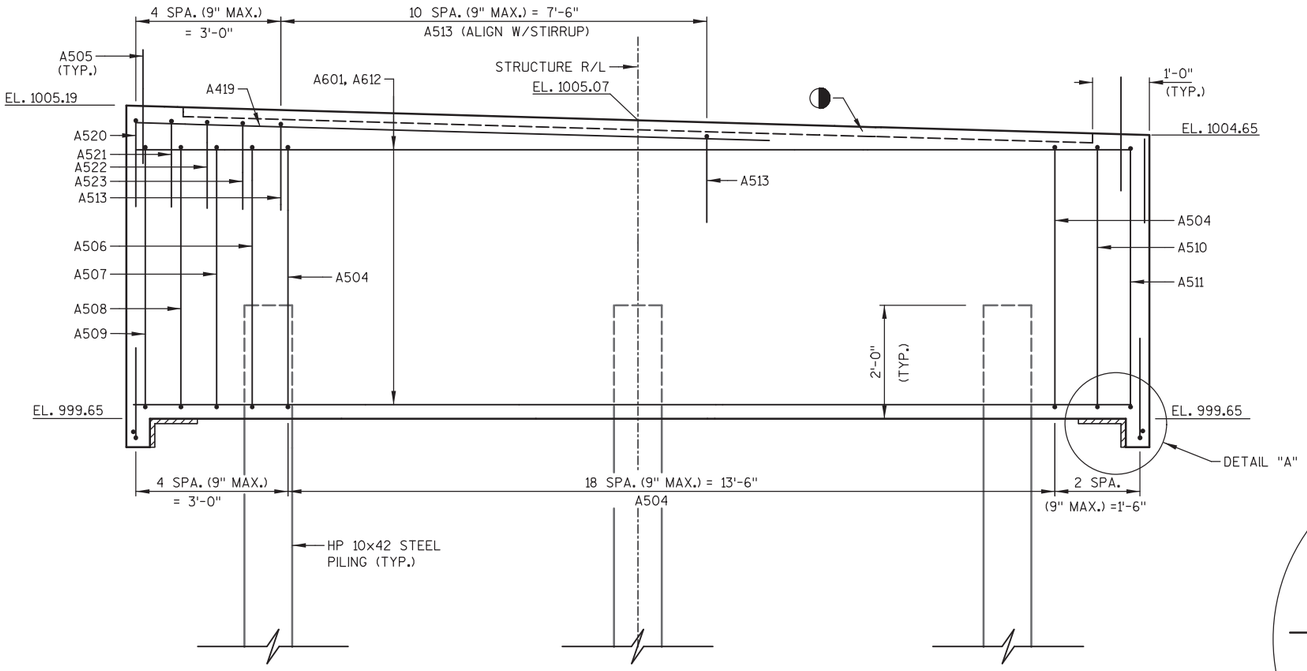
PLAN



DETAIL "C"

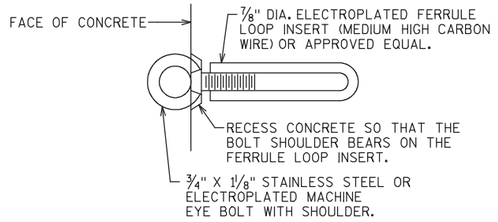


DETAIL "D"



ELEVATION

(LOOKING SOUTH)



EYE BOLT DETAIL

EYE BOLTS AND FERRULE LOOP INSERTS ARE INCLUDED IN THE BID ITEM "CONCRETE MASONRY BRIDGES". MINIMUM STRENGTH OF EYE BOLT AND LOOP INSERT IS 3500 LB.

NOTES

SEE SHEET 11 FOR PILE SPLICE DETAILS.

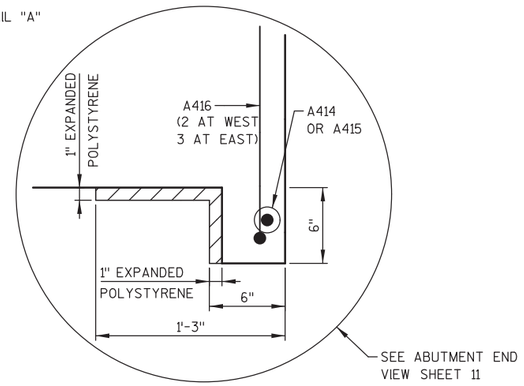
SEE SHEET 8 FOR REINFORCING DETAILS.

ADJUST A504 BARS TO AVOID PILE INTERFERENCE.

PROVIDE EYE BOLT FALL PROTECTION AT EACH ABUTMENT. LOCATE EYE BOLTS 1' BELOW THE SLAB AND SPACE AT 6' MAX ACROSS THE FACE OF THE ABUTMENT.

LEGEND

- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- HORIZONTAL CONSTRUCTION JOINT KEYWAY FORMED BY A BEVELED 2" x 6"



DETAIL "A"

(TYP. EACH END)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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SOUTH ABUTMENT

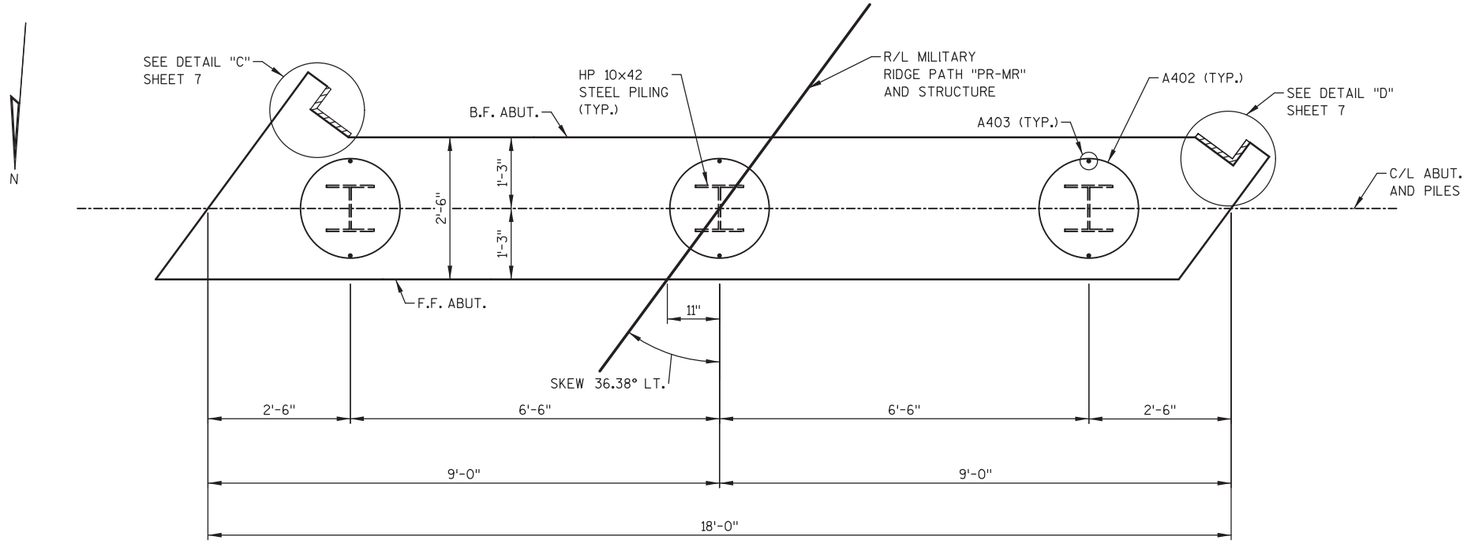
SHEET 7 OF 39
1000

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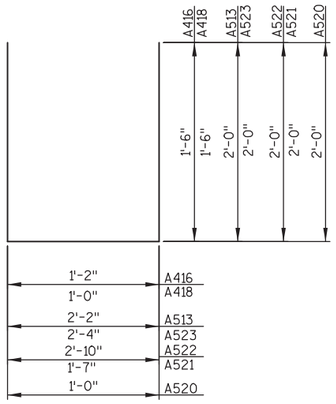
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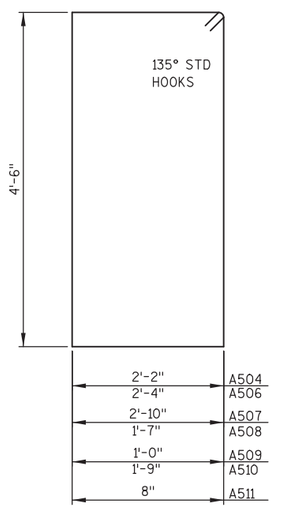
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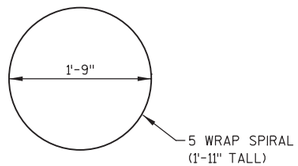
PILE PLAN



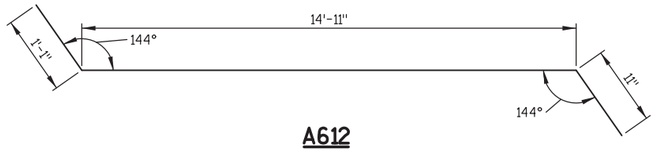
A416, A418, A513, A520
A521, A522, A523



A504, A506, A507, A508
A509, A510, A511



A402



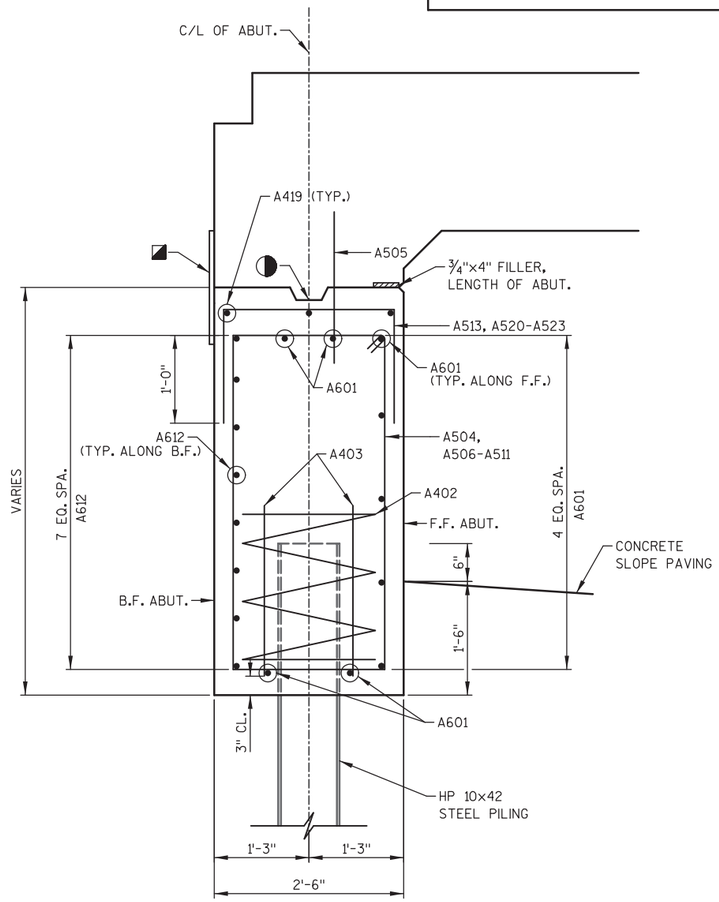
A612

SOUTH ABUTMENT BILL OF BARS

UNCOATED: 1,020 LBS.
COATED: 40 LBS.

MARK	NO.	LENGTH	BENT	COAT	LOCATION
A601	9	17'-8"			BODY - HORIZONTAL - BTM., F.F., TOP
A402	3	28'-0"	X		BODY - PILES - SPIRAL
A403	6	2'-0"			BODY - PILES - VERTICAL
A504	19	13'-11"	X		BODY - STIRRUP - VERTICAL
A505	17	2'-0"		X	BODY - TOP - VERTICAL
A506	1	14'-3"	X		BODY - STIRRUP - VERTICAL
A507	1	15'-3"	X		BODY - STIRRUP - VERTICAL
A508	1	12'-9"	X		BODY - STIRRUP - VERTICAL
A509	1	11'-7"	X		BODY - STIRRUP - VERTICAL
A510	1	13'-1"	X		BODY - STIRRUP - VERTICAL
A511	1	10'-11"	X		BODY - STIRRUP - VERTICAL
A612	8	16'-11"	X		BODY - HORIZONTAL - B.F.
A513	11	5'-11"	X		BODY - TOP - VERTICAL
A414	1	2'-4"			LOWER - RETAINING WALL LIP - WEST
A415	1	4'-1"			LOWER - RETAINING WALL LIP - EAST
A416	5	4'-0"	X		LOWER - RETAINING WALL LIP
A417	1	5'-2"			UPPER - RETAINING WALL LIP - WEST
A418	8	3'-10"	X		UPPER - RETAINING WALL LIP
A419	3	11'-0"			BODY - TOP - HORIZONTAL
A520	1	4'-9"	X		BODY - TOP - VERTICAL
A521	1	5'-4"	X		BODY - TOP - VERTICAL
A522	1	6'-7"	X		BODY - TOP - VERTICAL
A523	1	6'-1"	X		BODY - TOP - VERTICAL
A424	1	5'-8"			UPPER - RETAINING WALL LIP - EAST

NOTE: THE FIRST ONE OR TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.



TYPICAL SECTION THRU BODY

NOTES

ABUTMENT TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 80 TONS PER PILE. ESTIMATED PILE LENGTH IS 50 FEET.

LEGEND

18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.

HORIZONTAL CONSTRUCTION JOINT KEYWAY FORMED BY A BEVELED 2" x 6"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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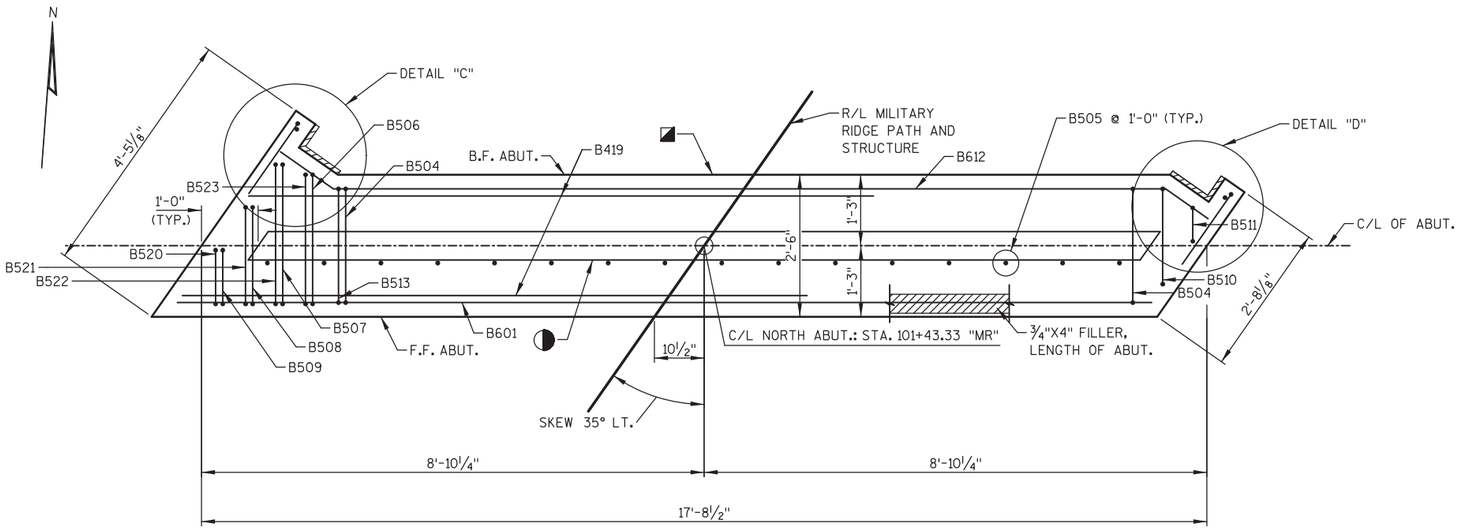
SOUTH ABUTMENT DETAILS

SHEET 8 OF 39
1001

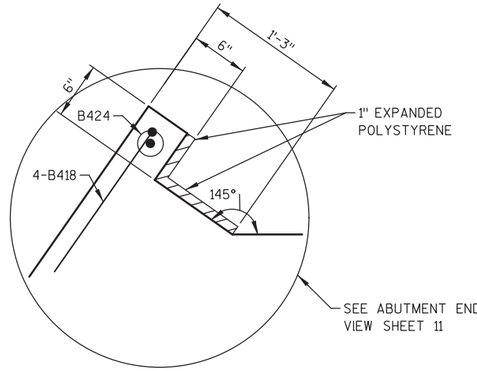
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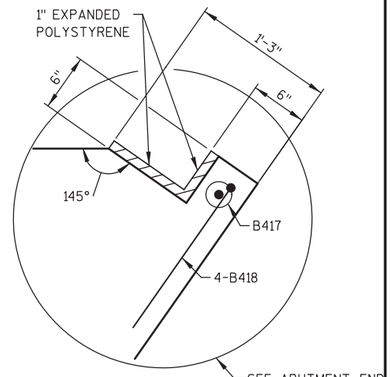
STATE PROJECT NUMBER
1206-07-83



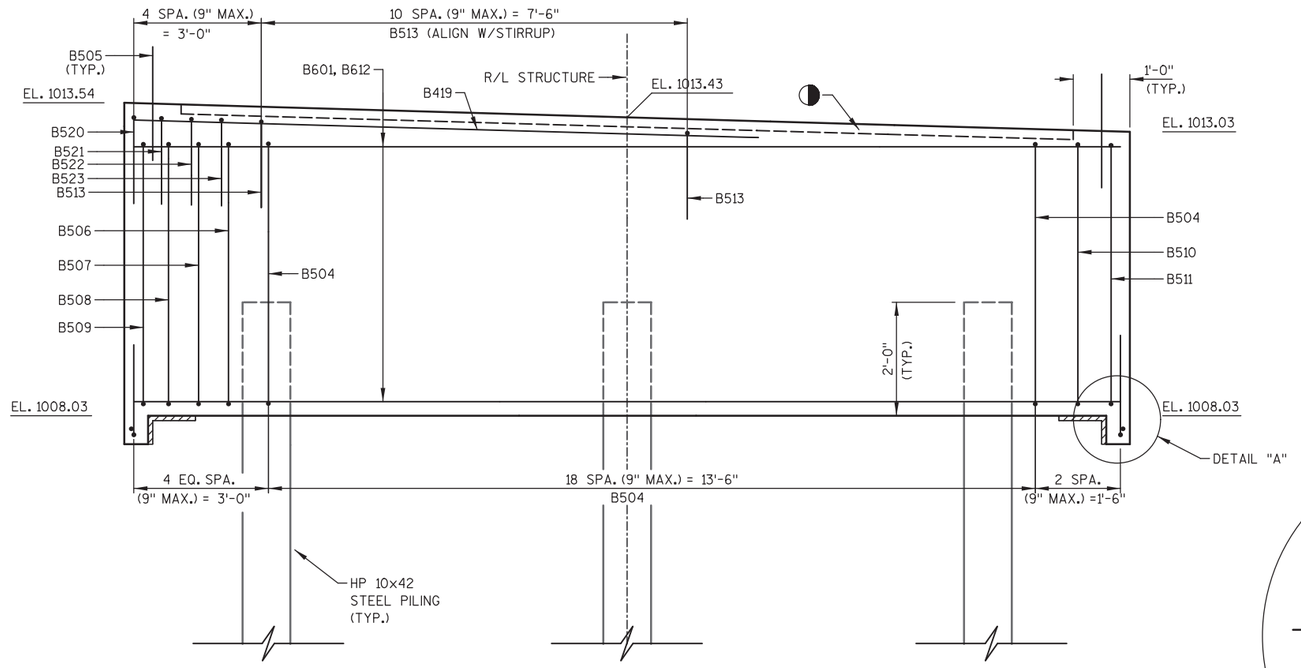
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DETAIL "C"

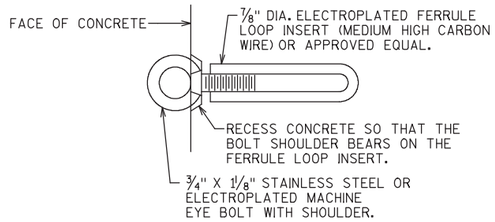


DETAIL "D"



ELEVATION

(LOOKING NORTH)



EYE BOLT DETAIL

EYE BOLTS AND FERRULE LOOP INSERTS ARE INCLUDED IN THE BID ITEM "CONCRETE MASONRY BRIDGES". MINIMUM STRENGTH OF EYE BOLT AND LOOP INSERT IS 3500 LB.

NOTES

SEE SHEET 11 FOR PILE SPLICE DETAILS.

SEE SHEET 10 FOR REINFORCING DETAILS.

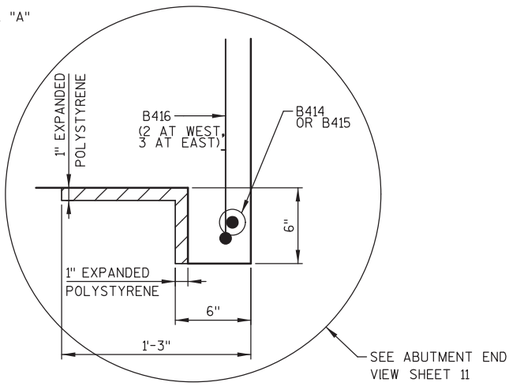
ADJUST B504 BARS TO AVOID PILE INTERFERENCE.

PROVIDE EYE BOLT FALL PROTECTION AT EACH ABUTMENT. LOCATE EYE BOLTS 1' BELOW THE SLAB AND SPACE AT 6' MAX ACROSS THE FACE OF THE ABUTMENT.

LEGEND

◪ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.

◑ HORIZONTAL CONSTRUCTION JOINT KEYWAY FORMED BY A BEVELED 2" x 6"



DETAIL "A"

(TYP. EACH END)

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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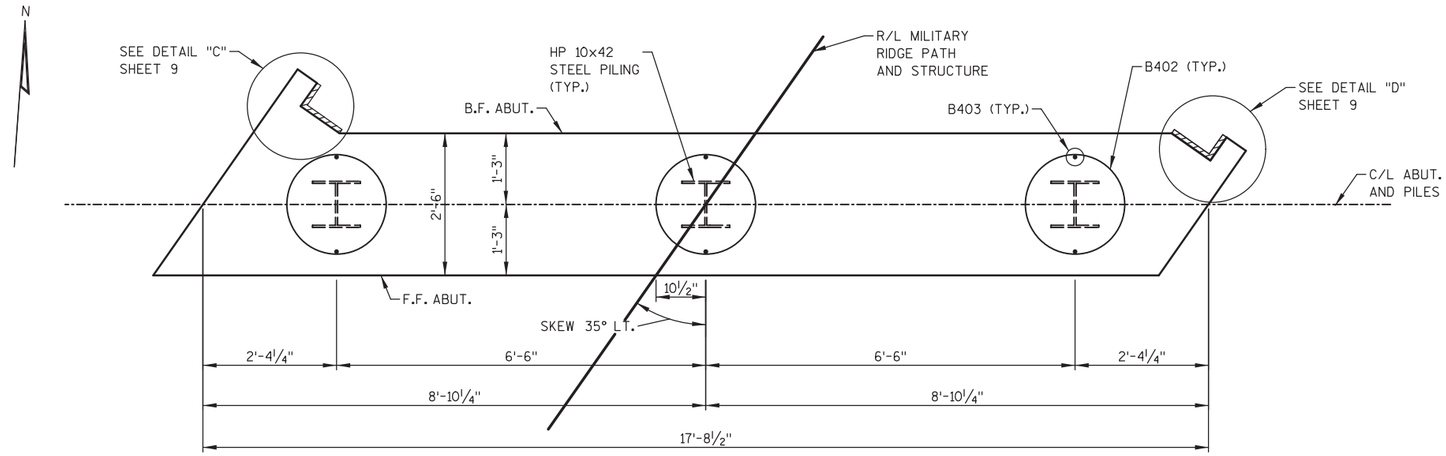
NORTH ABUTMENT

SHEET 9 OF 39
1002

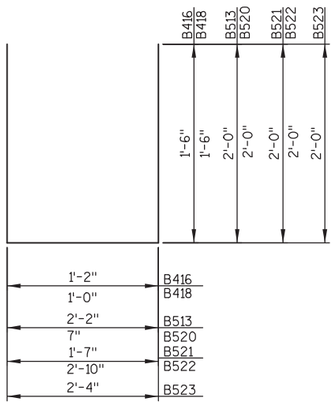
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STATE PROJECT NUMBER
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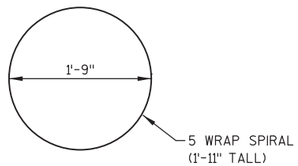


PILE PLAN

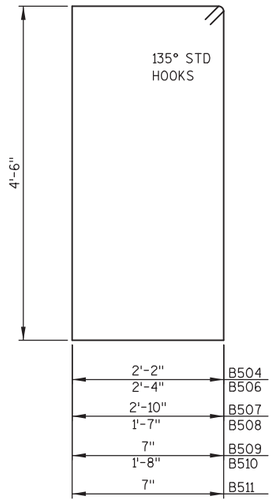


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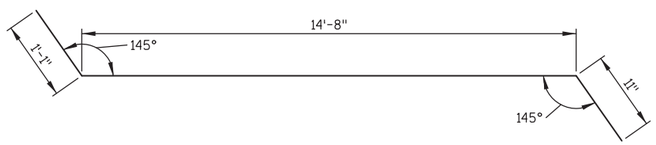


B402



B504, B506, B507, B508

B509, B510, B511



B612

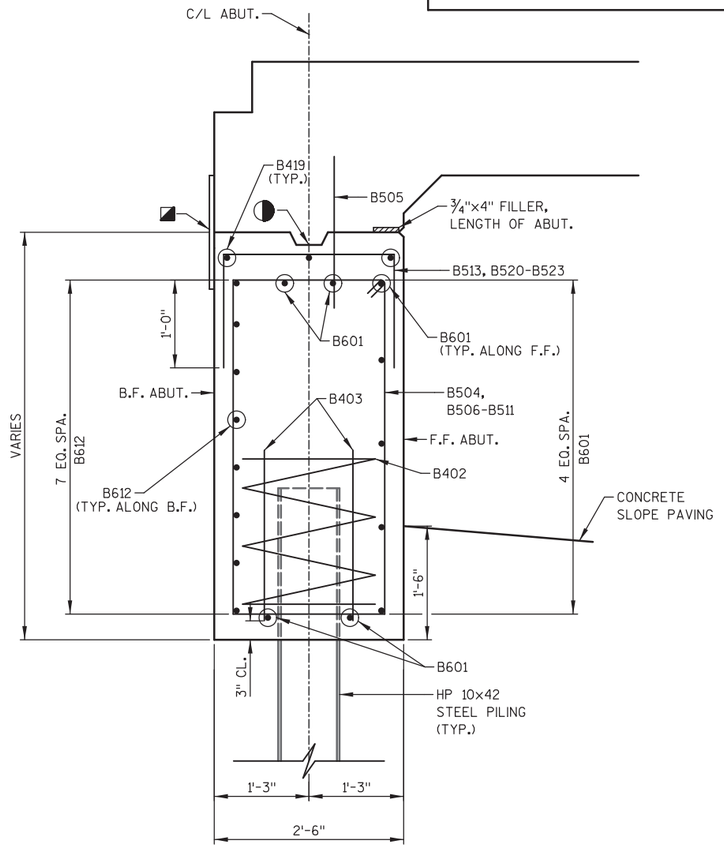
NORTH ABUTMENT BILL OF BARS

UNCOATED: 1,010 LBS.

COATED: 30 LBS.

MARK	NO.	LENGTH	BENT	COAT	LOCATION
B601	9	17'-2"			BODY - HORIZONTAL - BTM., F.F., TOP
B402	3	28'-0"	X		BODY - PILES - SPIRAL
B403	6	2'-0"			BODY - PILES - VERTICAL
B504	19	13'-11"	X		BODY - STIRRUP - VERTICAL
B505	16	2'-0"		X	BODY - TOP - VERTICAL
B506	1	14'-3"	X		BODY - STIRRUP - VERTICAL
B507	1	15'-3"	X		BODY - STIRRUP - VERTICAL
B508	1	12'-9"	X		BODY - STIRRUP - VERTICAL
B509	1	10'-9"	X		BODY - STIRRUP - VERTICAL
B510	1	12'-11"	X		BODY - STIRRUP - VERTICAL
B511	1	10'-9"	X		BODY - STIRRUP - VERTICAL
B612	8	16'-8"	X		BODY - HORIZONTAL - B.F.
B513	11	5'-11"	X		BODY - TOP - VERTICAL
B414	1	2'-4"			LOWER - RETAINING WALL LIP - EAST
B415	1	4'-1"			LOWER - RETAINING WALL LIP - WEST
B416	5	4'-0"	X		LOWER - RETAINING WALL LIP
B417	1	5'-2"			UPPER - RETAINING WALL LIP - EAST
B418	8	3'-10"	X		UPPER - RETAINING WALL LIP
B419	3	11'-0"			BODY - TOP - HORIZONTAL
B520	1	4'-4"	X		BODY - TOP - VERTICAL
B521	1	5'-4"	X		BODY - TOP - VERTICAL
B522	1	6'-7"	X		BODY - TOP - VERTICAL
B523	1	6'-1"	X		BODY - TOP - VERTICAL
B424	1	5'-8"			UPPER - RETAINING WALL LIP - WEST

NOTE: THE FIRST ONE OR TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.



TYPICAL SECTION THRU BODY

NOTES

ABUTMENT TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 80 TONS PER PILE. ESTIMATED PILE LENGTH IS 30 FEET.

LEGEND

◪ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.

◑ HORIZONTAL CONSTRUCTION JOINT KEYWAY FORMED BY A BEVELED 2" x 6"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY BSB | PLANS CK'D. BMO

NORTH ABUTMENT DETAILS

SHEET 10 OF 39

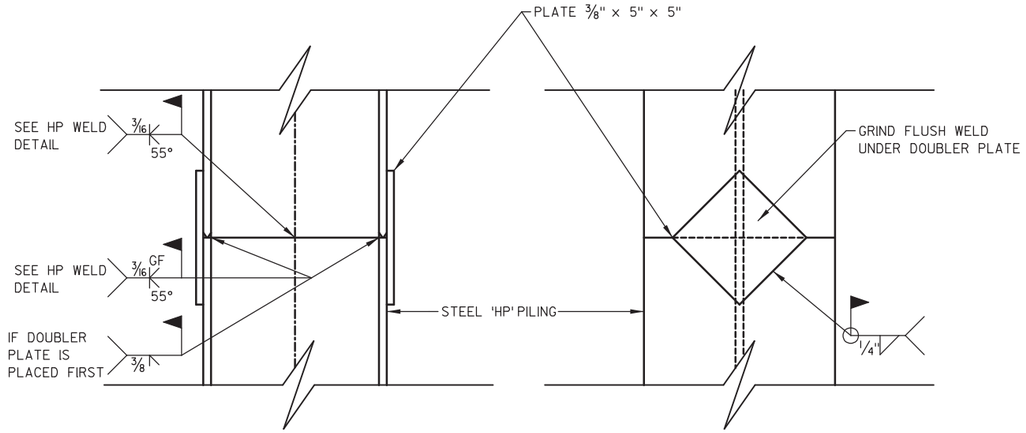
1003

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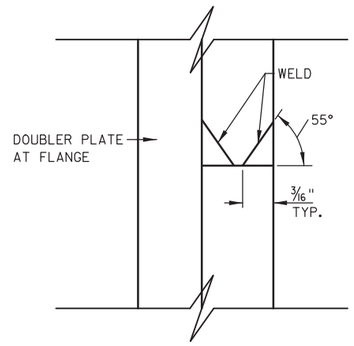
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STATE PROJECT NUMBER

1206-07-83

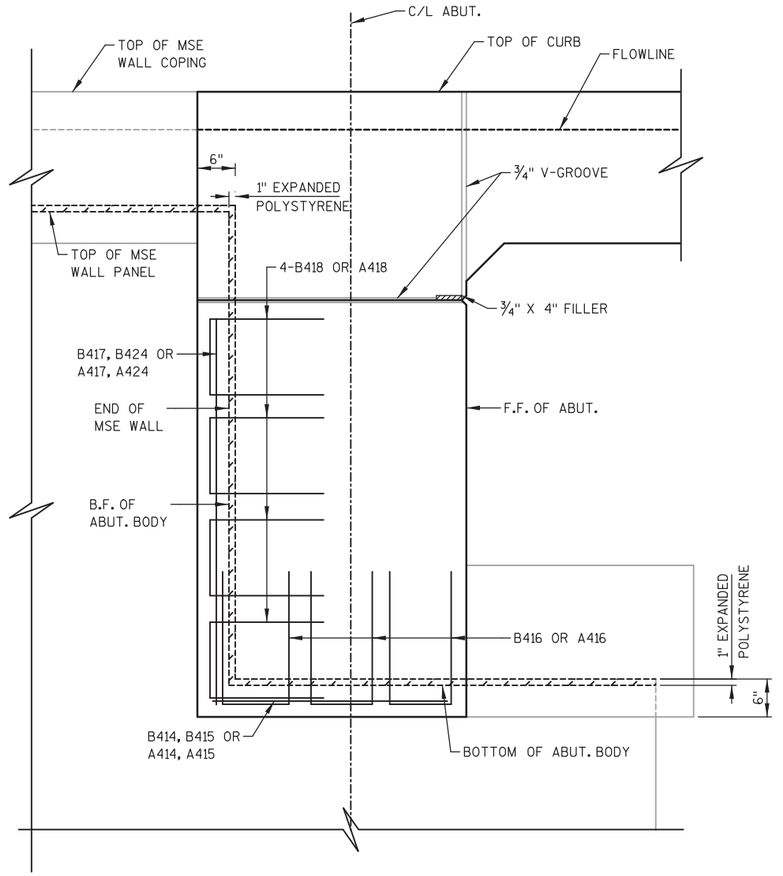


PILE SPLICE DETAILS

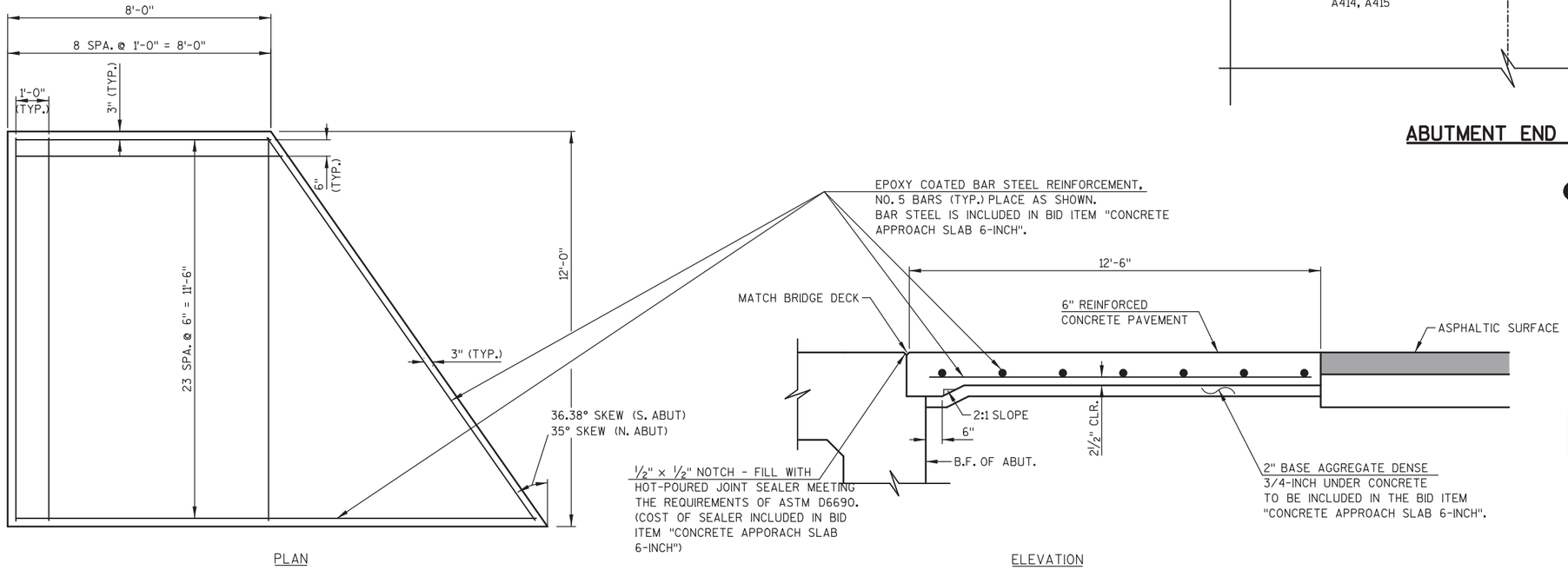


HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR



ABUTMENT END VIEW



PLAN

ELEVATION

CONCRETE PAVEMENT APPROACH SLAB SPECIAL

NOTES:

ALL LABOR AND MATERIAL (EYE BOLTS, CABLE, AND CLAMPS) INCIDENTAL TO BID ITEM "MASONRY ANCHORS TYPE S 3/4-INCH.

ALL HARDWARE AND CABLE TO BE GALVANIZED OR STAINLESS STEEL.

USE EYEBOLTS FOR TYPE S ANCHOR HARDWARE.

MASONRY ANCHORS TYPE S 3/4-INCH. MIN. ULTIMATE PULLOUT CAPACITY OR 26 KIPS. FOR ADHESIVE ANCHORS, EMBED A MINIMUM OF 7" IN CONCRETE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY BSB | PLANS CK'D. BMO

ABUTMENT DETAILS

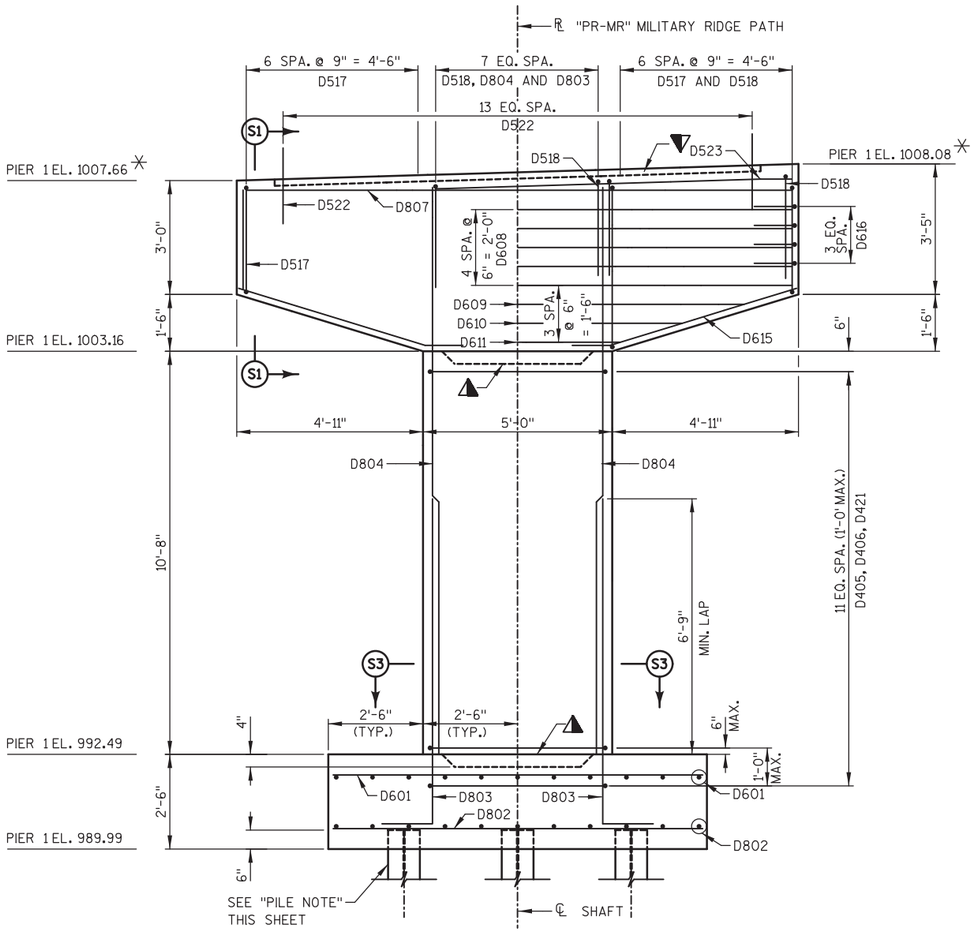
SHEET 11 OF 39
1004

8

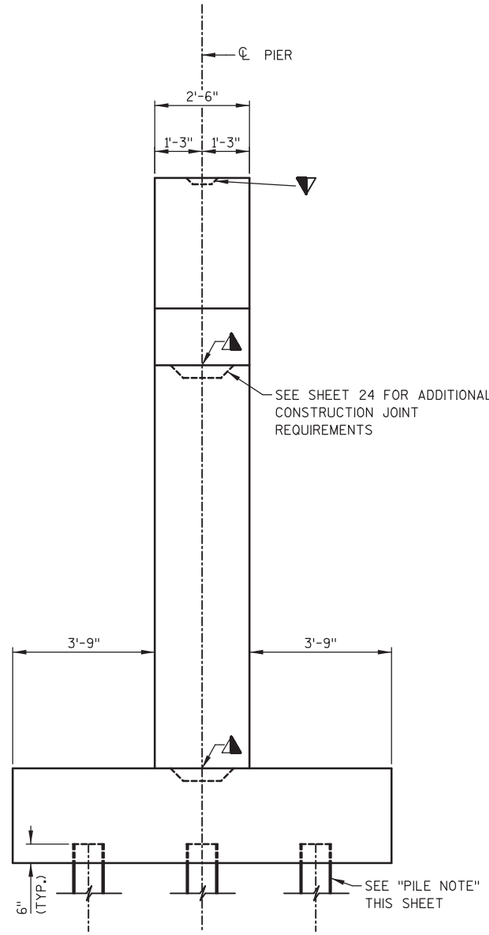
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STATE PROJECT NUMBER

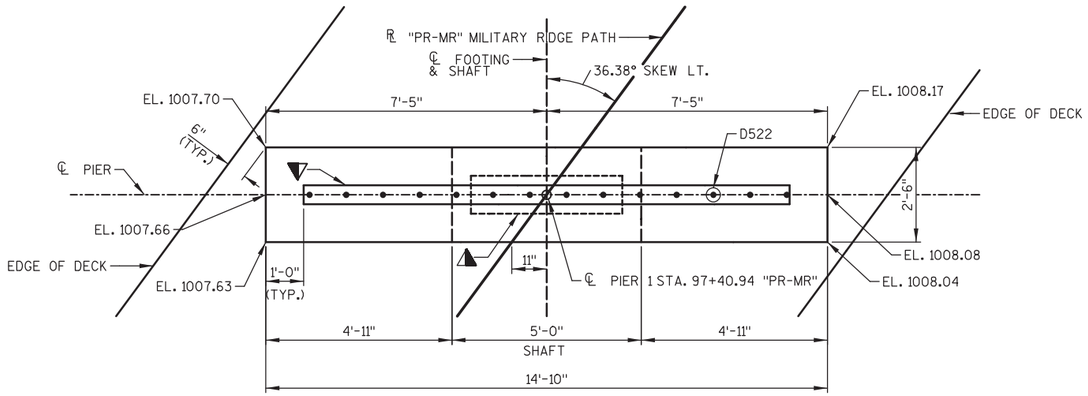
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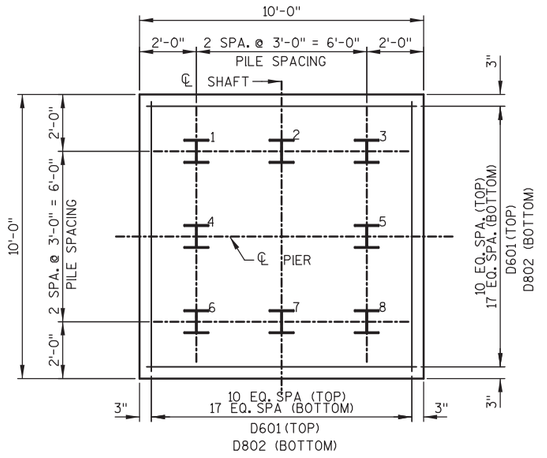
ELEVATION
(LOOKING UP STATION)



END VIEW



PLAN



FOOTING PLAN

LEGEND

- KEYED CONSTRUCTION JOINT FORMED BY A BEVELED KEYWAY 4" × 1'-0" × 3'-6".
- KEYED CONSTRUCTION JOINT FORMED BY A BEVELED KEYWAY 2" × 6". CENTER KEYWAY BELOW SLAB BEARING.
- ELEVATIONS GIVEN AT C/L PIER CAP.

PILE NOTE

PIER TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS PER PILE, ESTIMATED 60' LONG.

NOTES

SEE SHEET 13 FOR REINFORCING DETAILS.

ARCHITECTURAL SURFACE TREATMENT NOT SHOWN FOR CLARITY. SEE SHEET 24 FOR REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY: BSB | PLANS CK'D.: BMO

PIER 1 DETAILS

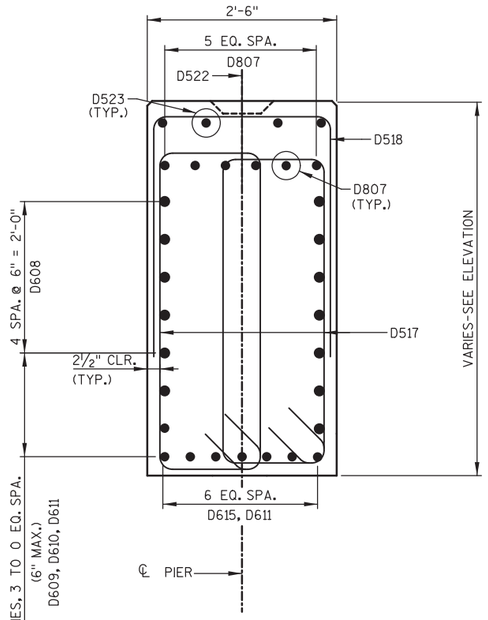
SHEET 12 OF 39
1005

8

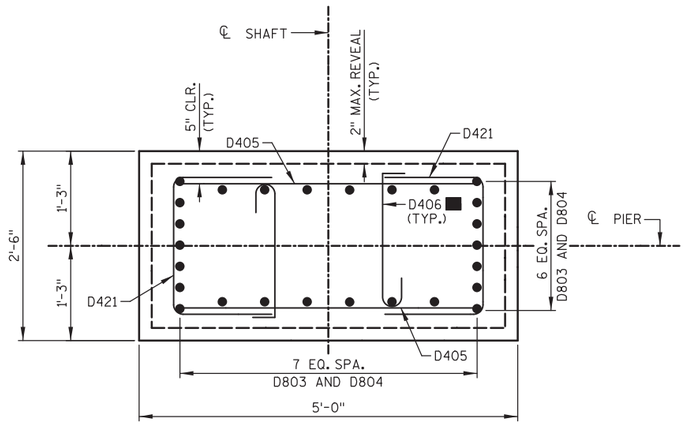
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STATE PROJECT NUMBER

1206-07-83



SECTION S1
SECTION THRU CAP



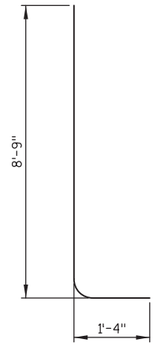
SECTION S3
SECTION THRU SHAFT

PIER 1
BILL OF BARS

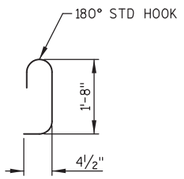
UNCOATED: 1,230 LBS.
COATED: 3,210 LBS.

MARK	NO.	LENGTH	BENT	COAT	LOCATION
D601	22	9'-6"			FOOTINGS - HORIZ.
D802	36	9'-6"			FOOTINGS - HORIZ.
D803	26	9'-11"	X	X	FOOTING & SHAFT - VERT.
D804	26	15'-0"		X	SHAFT - VERT.
D405	24	4'-2"		X	SHAFT - HORIZ.
D406	24	2'-6"	X	X	SHAFT - HORIZ. - TIES
D807	6	19'-0"	X	X	CAP - HORIZ. - TOP
D608	10	14'-5"		X	CAP - HORIZ. - SIDES
D609	2	11'-9"		X	CAP - HORIZ. - SIDES
D610	2	8'-5"		X	CAP - HORIZ. - SIDES
D611	7	5'-2"		X	CAP - HORIZ. - SIDES
D615	14	5'-11"	X	X	CAP - HORIZ. - BTM.
D616	8	8'-9"	X	X	CAP - HORIZ. - ENDS
△ D517	28	9'-11"	X	X	CAP - STIRRUP - VERT.
D518	15	7'-0"	X	X	CAP - STIRRUP - VERT. - TOP
D421	24	4'-10"	X	X	SHAFT - HORIZ. - ENDS
D522	14	2'-0"		X	CAP - VERT.
D523	4	10'-0"		X	CAP - HORIZ. - TOP

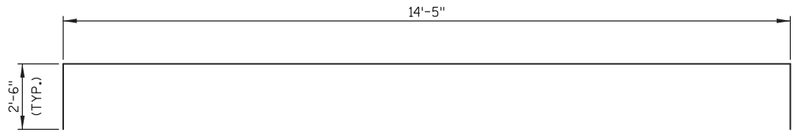
NOTE: THE FIRST ONE OR TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.



D803



D406

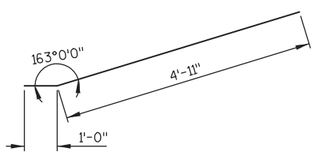


D807

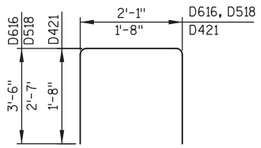
△ BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
D517	4 SERIES OF 7	8'-7" TO 11'-3"

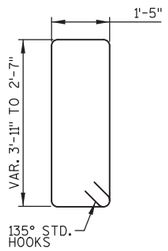
LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



D615



D616, D518, D421



D517

LEGEND

■ SPACE D406 @ 1'-0" O.C. VERTICALLY

NOTES

SEE SHEET 24 FOR ARCHITECTURAL SURFACE TREATMENT REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

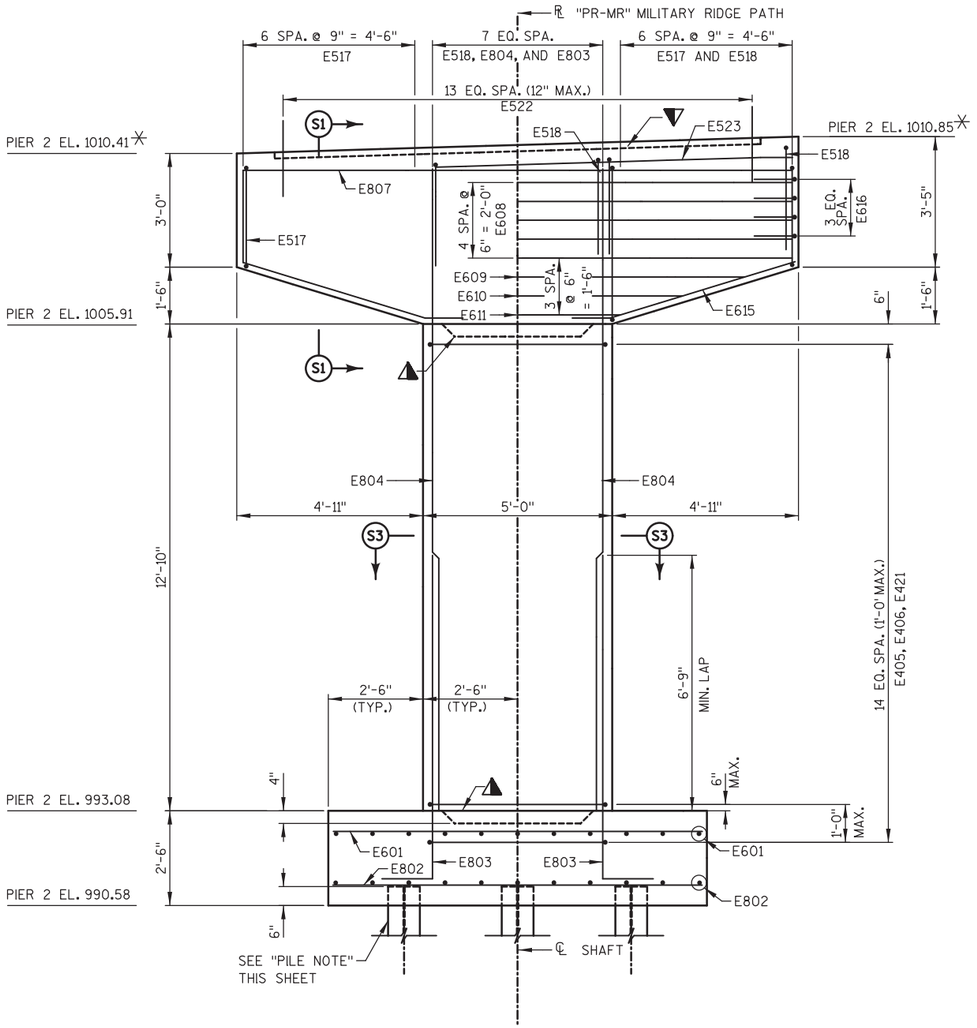
DRAWN BY BSB | PLANS CK'D. BMO

PIER 1
DETAILS

SHEET 13 OF 39
1006

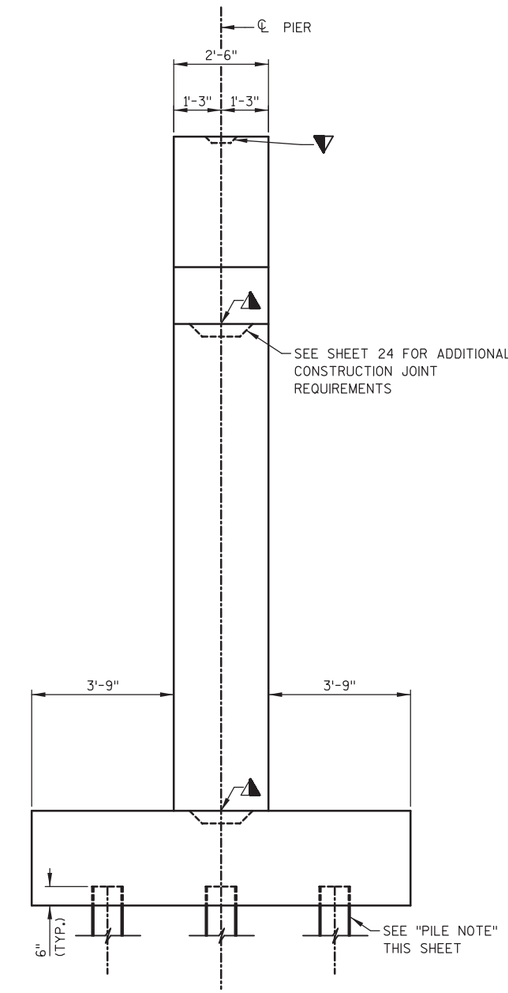
8

8

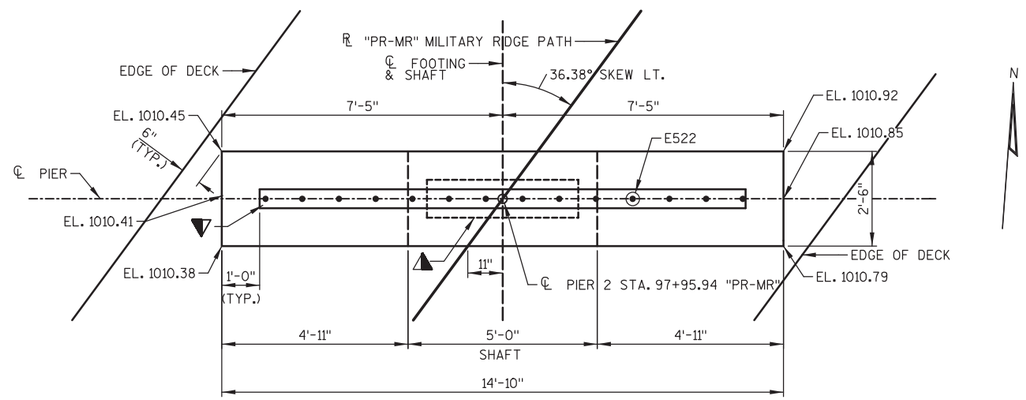


ELEVATION

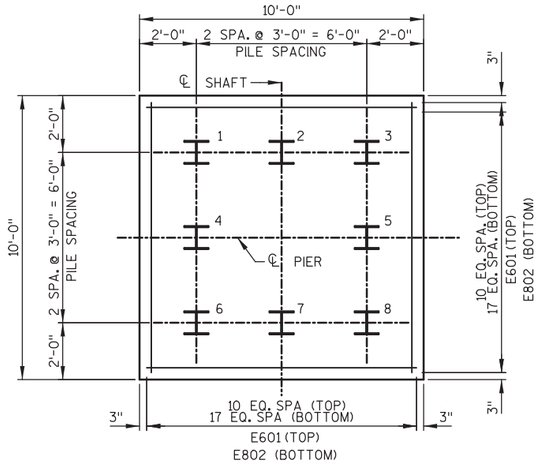
(LOOKING UP STATION)



END VIEW



PLAN



FOOTING PLAN

LEGEND

- KEYED CONSTRUCTION JOINT FORMED BY A BEVELED KEYWAY 4" × 1'-0" × 3'-6".
- KEYED CONSTRUCTION JOINT FORMED BY A BEVELED KEYWAY 2" × 6". CENTER KEYWAY BELOW SLAB BEARING.
- ✳ ELEVATIONS GIVEN AT C/L PIER CAP.

PILE NOTE

PIER TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS PER PILE, ESTIMATED 50' LONG.

NOTES

SEE SHEET 13 FOR REINFORCING DETAILS.

ARCHITECTURAL SURFACE TREATMENT NOT SHOWN FOR CLARITY. SEE SHEET 24 FOR REQUIREMENTS.

STATE PROJECT NUMBER

1206-07-83

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

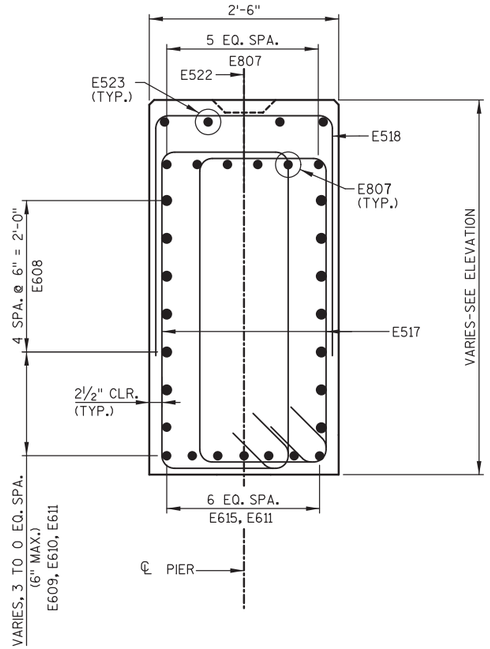
DRAWN BY BSB | PLANS CK'D. BMO

PIER 2 DETAILS

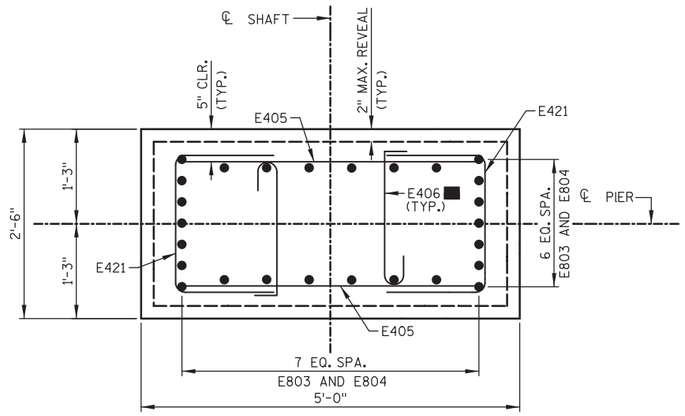
SHEET 14 OF 39
1007

8

8



SECTION S1
SECTION THRU CAP



SECTION S3
SECTION THRU SHAFT

STATE PROJECT NUMBER

1206-07-83

PIER 2
BILL OF BARS

UNCOATED: 1,230 LBS.
COATED: 3,390 LBS.

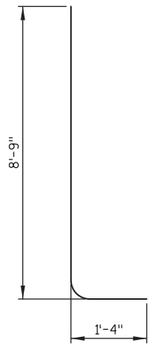
MARK	NO.	LENGTH	BENT	COAT	LOCATION
E601	22	9'-6"			FOOTINGS - HORIZ.
E802	36	9'-6"			FOOTINGS - HORIZ.
E803	26	9'-11"	X	X	FOOTING & SHAFT - VERT.
E804	26	17'-0"		X	SHAFT - VERT.
E405	30	4'-2"		X	SHAFT - HORIZ.
E406	30	2'-6"	X	X	SHAFT - HORIZ. - TIES
E807	6	19'-0"	X	X	CAP - HORIZ. - TIES
E608	10	14'-5"		X	CAP - HORIZ. - SIDES
E609	2	11'-9"		X	CAP - HORIZ. - SIDES
E610	2	8'-5"		X	CAP - HORIZ. - SIDES
E611	7	5'-2"		X	CAP - HORIZ. - SIDES
E615	14	5'-11"	X	X	CAP - HORIZ. - BTM.
E616	8	8'-9"	X	X	CAP - HORIZ. - ENDS
△ E517	28	9'-11"	X	X	CAP - STIRRUP - VERT.
E518	15	7'-0"	X	X	CAP - STIRRUP - VERT. - TOP
E421	30	4'-10"	X	X	SHAFT - HORIZ. - ENDS
E522	14	2'-0"		X	CAP - VERT.
E523	4	10'-0"		X	CAP - HORIZ. - TOP

NOTE: THE FIRST ONE OR TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.

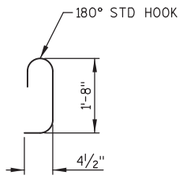
△ BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
E517	4 SERIES OF 7	8'-7" TO 11'-3"

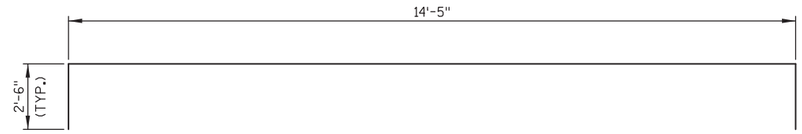
LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



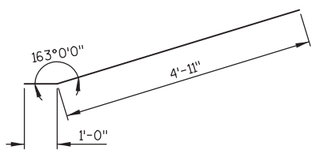
E803



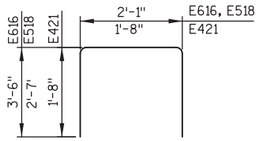
E406



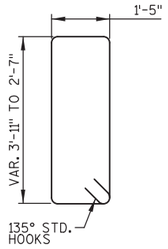
E807



E615



E616, E518, E421



E517

LEGEND

■ SPACE E406 @ 1'-0" O.C. VERTICALLY

NOTES

SEE SHEET 24 FOR ARCHITECTURAL SURFACE TREATMENT REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY BSB | PLANS CK'D. BMO

PIER 2
DETAILS

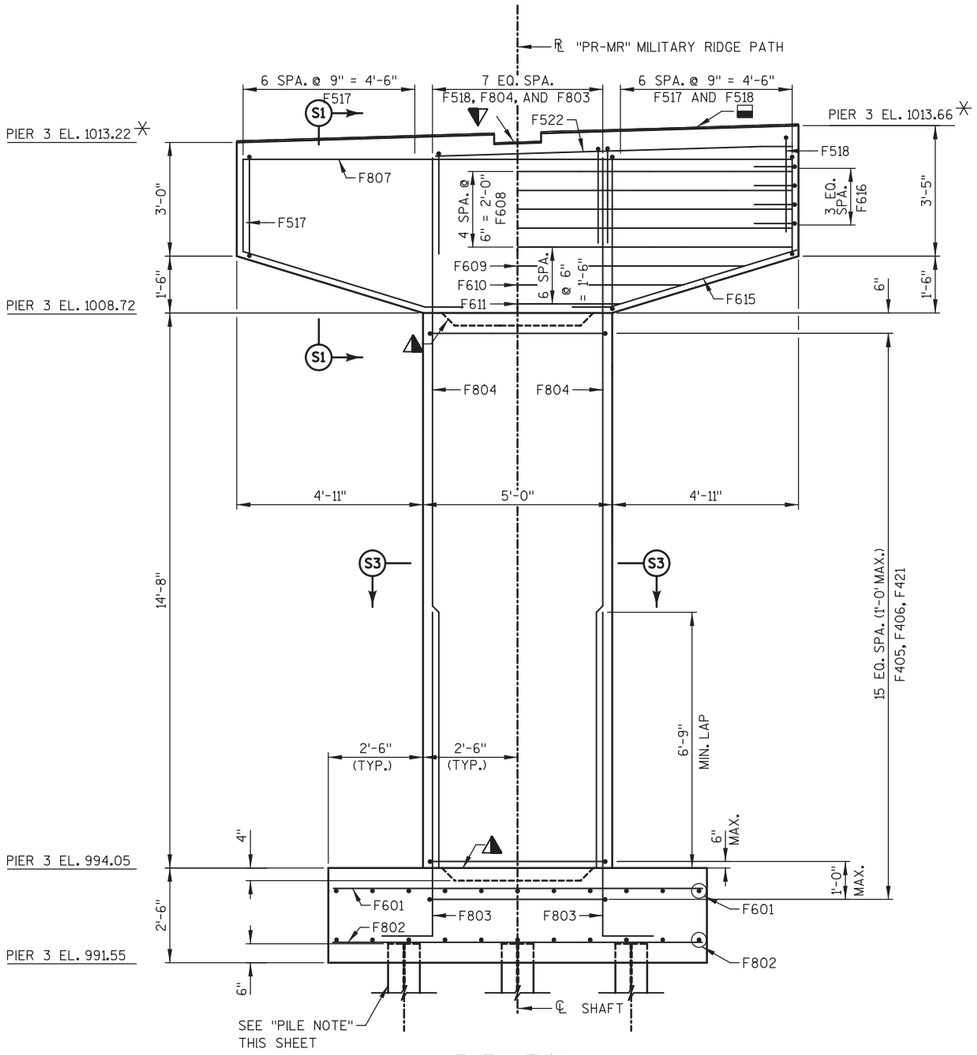
SHEET 15 OF 39
1008

8

8

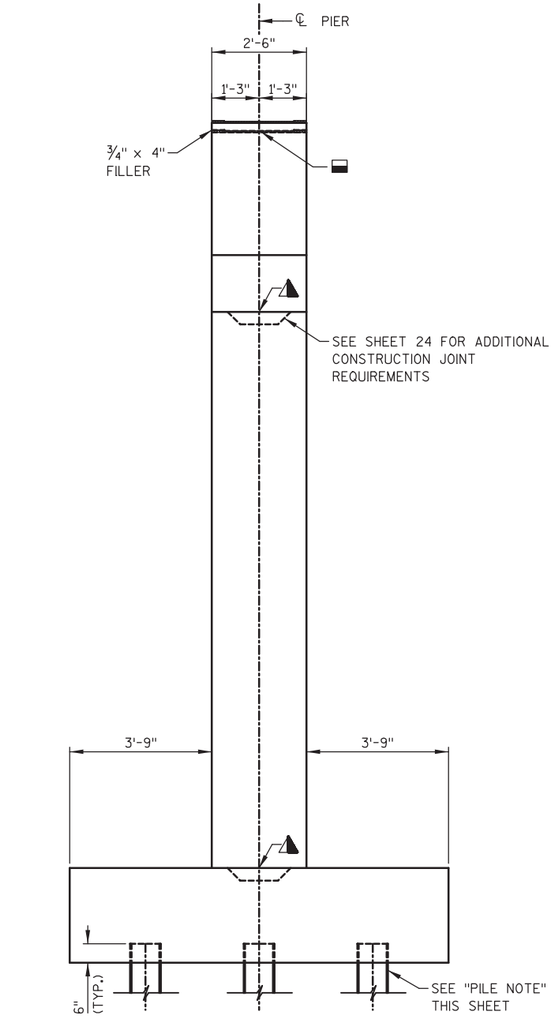
STATE PROJECT NUMBER

1206-07-83

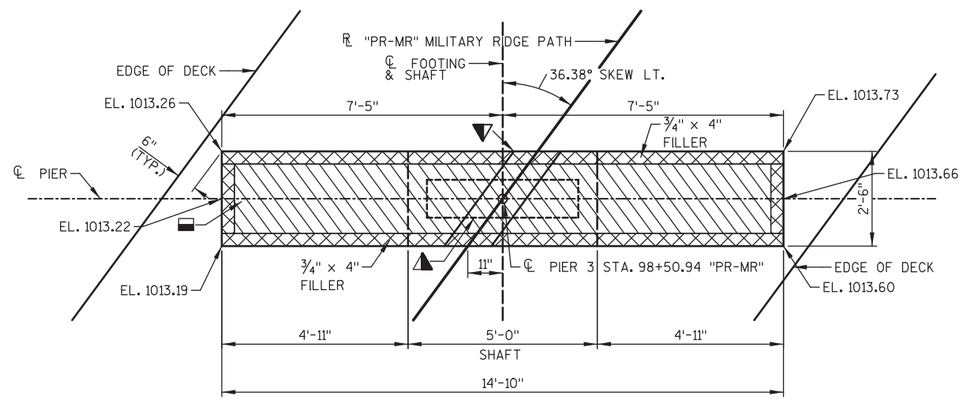


ELEVATION

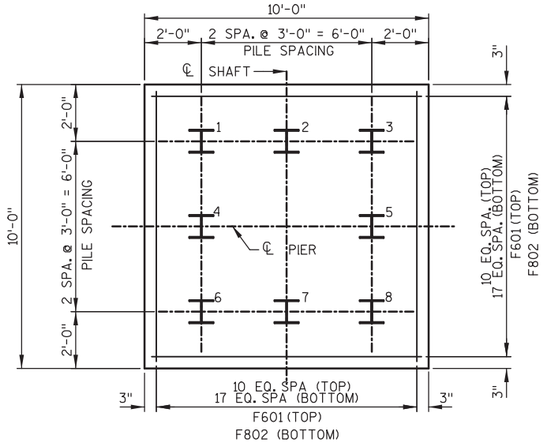
(LOOKING UP STATION)



END VIEW



PLAN



FOOTING PLAN

LEGEND

- KEYED CONSTRUCTION JOINT FORMED BY A BEVELED KEYWAY 4" × 1'-0" × 3'-6".
- 1/2" NON-LAMINATED ELASTOMERIC BEARING PAD. STEEL TROWEL TOP SURFACE OF PIER. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE PIER TOP BEFORE PLACING BEARING PADS AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".
- 12" X 3" KEYWAY. ORIENT PARALLEL TO REFERENCE LINE. EXTEND FULL WIDTH OF CAP.
- ELEVATIONS GIVEN AT C/L PIER CAP.

PILE NOTE

PIER TO BE SUPPORTED ON HP 10×42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS PER PILE, ESTIMATED 50' LONG.

NOTES

SEE SHEET 17 FOR REINFORCING DETAILS.

ARCHITECTURAL SURFACE TREATMENT NOT SHOWN FOR CLARITY. SEE SHEET 24 FOR REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY BSB | PLANS CK'D. BMO

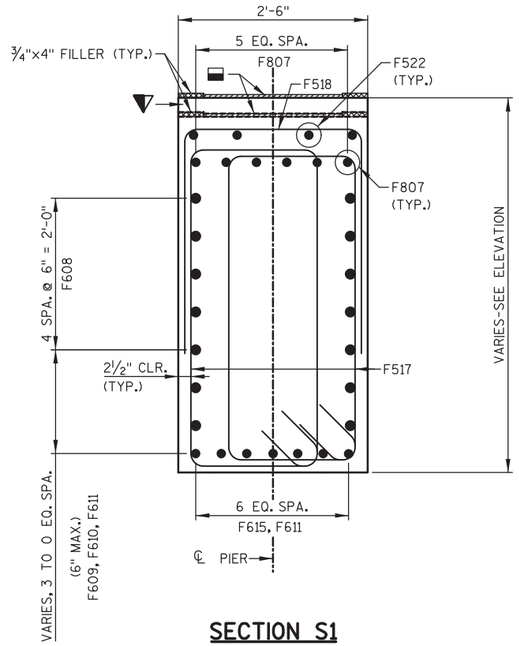
PIER 3 DETAILS

SHEET 16 OF 39

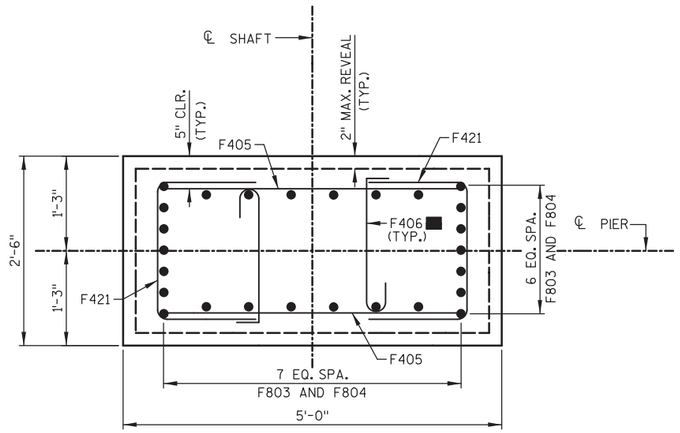
1009

8

8



SECTION S1
SECTION THRU CAP



SECTION S3
SECTION THRU SHAFT

PIER 3
BILL OF BARS

UNCOATED: 1,230 LBS.
COATED: 3,520 LBS.

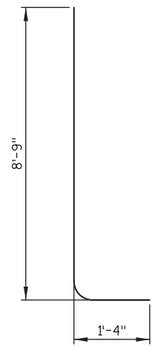
MARK	NO.	LENGTH	BENT	COAT	LOCATION
F601	22	9'-6"			FCOTINGS - HORIZ.
F802	36	9'-6"			FCOTINGS - HORIZ.
F803	26	9'-11"	X	X	FCOTING & SHAFT - VERT.
F804	26	19'-0"		X	SHAFT - VERT.
F405	32	4'-2"		X	SHAFT - HORIZ.
F406	32	2'-6"	X	X	SHAFT - HORIZ. - TIES
F807	6	19'-0"	X	X	CAP - HORIZ. - TIES
F608	10	14'-5"		X	CAP - HORIZ. - SIDES
F609	2	11'-9"		X	CAP - HORIZ. - SIDES
F610	2	8'-5"		X	CAP - HORIZ. - SIDES
F611	7	5'-2"		X	CAP - HORIZ. - SIDES
F615	14	5'-11"	X	X	CAP - HORIZ. - BTM.
F616	8	8'-9"	X	X	CAP - HORIZ. - ENDS
△ F517	28	9'-11"	X	X	CAP - STIRRUP - VERT.
F518	15	7'-0"	X	X	CAP - STIRRUP - VERT. - TOP
F421	32	4'-10"	X	X	SHAFT - HORIZ. - ENDS
F522	4	10'-0"		X	CAP - HORIZ. - TOP

NOTE: THE FIRST ONE OR TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.

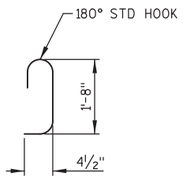
△ BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
F517	4 SERIES OF 7	8'-7" TO 11'-3"

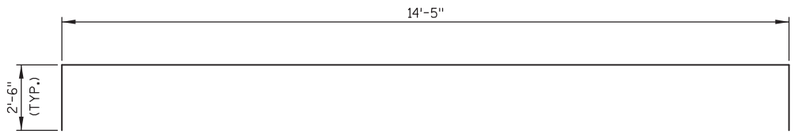
LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



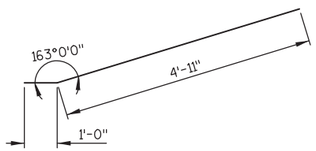
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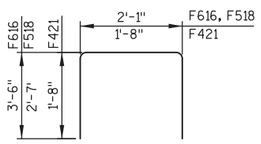
F406



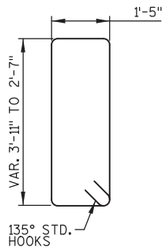
F807



F615



F616, F518, F421



F517

LEGEND

- ½" NON-LAMINATED ELASTOMERIC BEARING PAD. STEEL TROWEL TOP SURFACE OF PIER. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE PIER TOP BEFORE PLACING BEARING PADS AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".
- SPACE F406 @ 1'-0" O.C. VERTICALLY
- 12" × 3" KEYWAY. ORIENT PARALLEL TO REFERENCE LINE. EXTEND FULL WIDTH OF CAP.

NOTES

SEE SHEET 24 FOR ARCHITECTURAL SURFACE TREATMENT REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

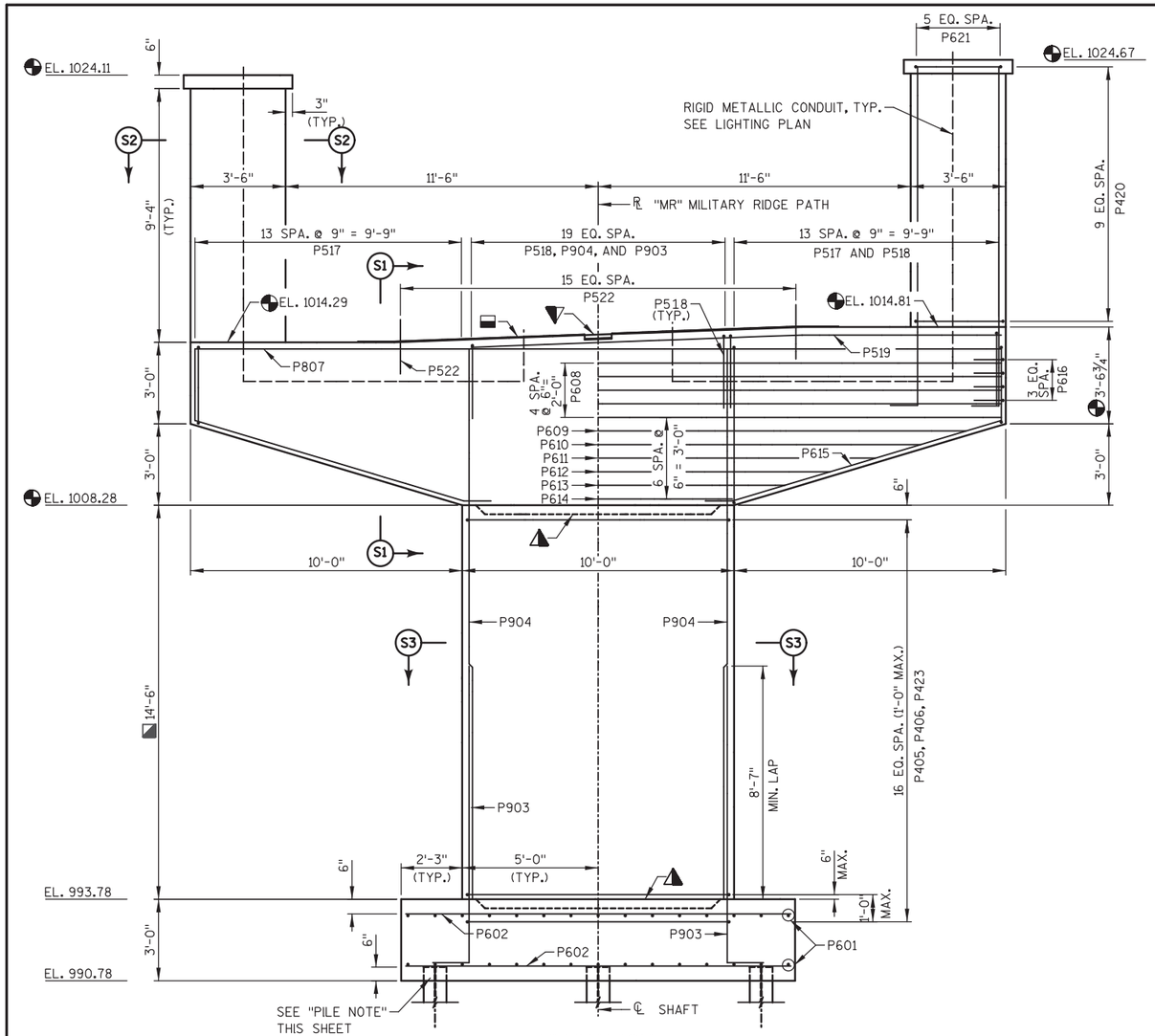
DRAWN BY BSB | PLANS CK'D. BMO

PIER 3
DETAILS

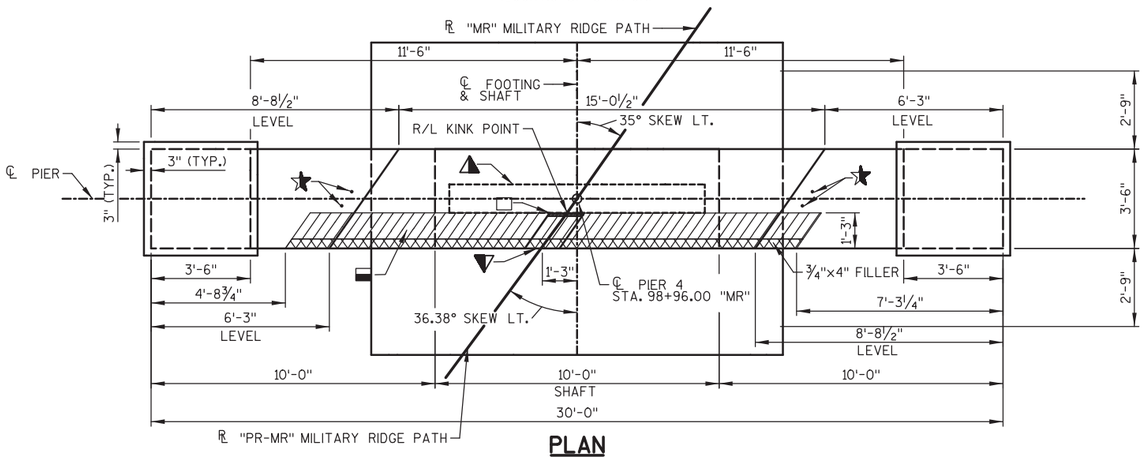
SHEET 17 OF 39
1010

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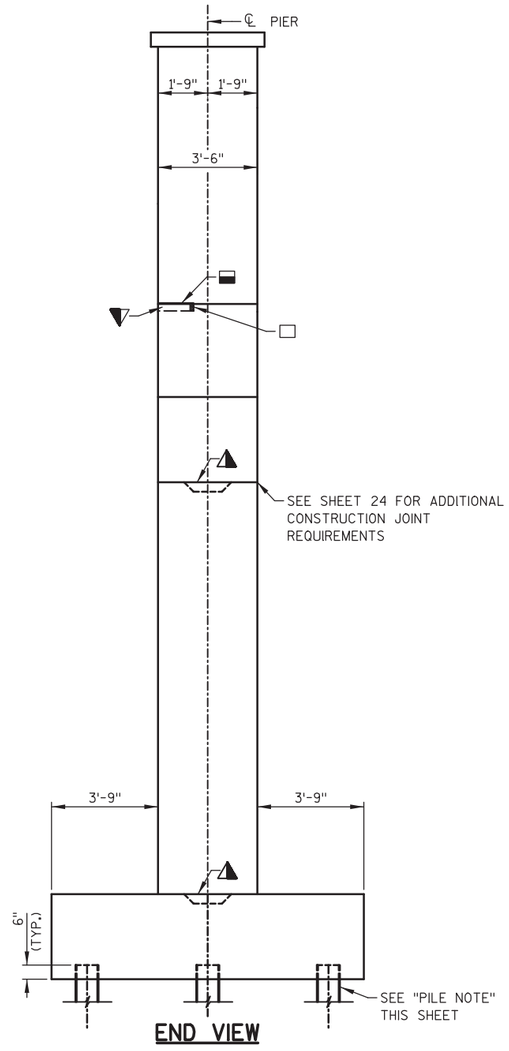
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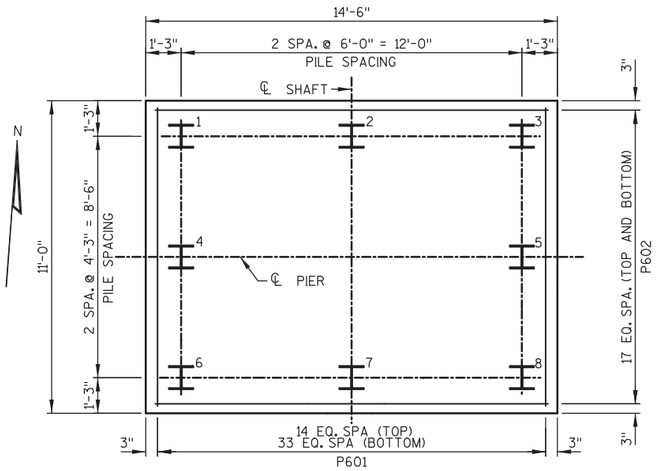
ELEVATION
(LOOKING UP STATION)



PLAN



END VIEW



FOOTING PLAN

LEGEND

- KEYED CONSTRUCTION JOINT FORMED BY A BEVELED KEYWAY 4" × 1'-2" × 8'-0".
- 12" × 3" KEYWAY. ORIENT PARALLEL TO REFERENCE LINE
- DIMENSION SHOWN IS TO BE USED FOR QUANTITY ESTIMATE ONLY. ACTUAL DIMENSION TO BE DETERMINED BY CONTRACTOR IN ACCORDANCE WITH PREFABRICATED BRIDGE REQUIREMENTS.
- DIMENSIONS AND ELEVATIONS TO BE VERIFIED BY CONTRACTOR IN ACCORDANCE WITH PREFABRICATED BRIDGE REQUIREMENTS. ALL REBAR REVISIONS REQUIRED TO MEET PREFABRICATED BRIDGE REQUIREMENTS SHALL BE REVIEWED BY ENGINEER.
- PREFABRICATED BRIDGE ANCHOR BOLTS. COORDINATE ANCHOR BOLT REQUIREMENTS WITH PREFABRICATED BRIDGE MANUFACTURER.
- ½" NON-LAMINATED ELASTOMERIC BEARING PAD. STEEL TROWEL TOP SURFACE OF PIER. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE SLAB BEARING AREA BEFORE PLACING BEARING PADS AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".
- 1½"×3"×12" FILLER AT BACKFACE OF KEYWAY.

PILE NOTE

PIER TO BE SUPPORTED ON HP 10×42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE, ESTIMATED 65'LONG.

NOTES

SEE SHEET 19 FOR REINFORCING DETAILS.

ARCHITECTURAL SURFACE TREATMENT NOT SHOWN FOR CLARITY. SEE SHEET 24 FOR REQUIREMENTS.

STATE PROJECT NUMBER

1206-07-83

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

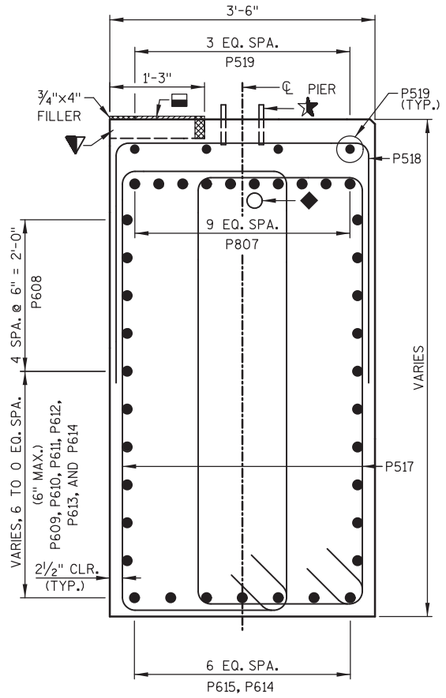
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PIER 4 DETAILS

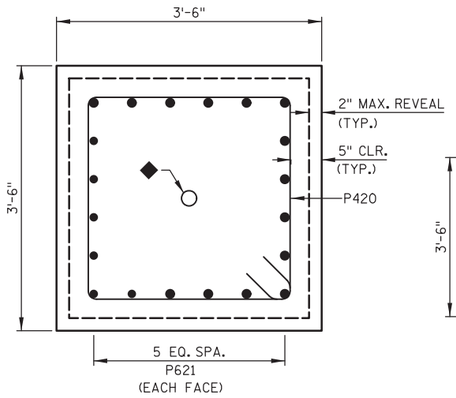
SHEET 18 OF 39
1011

8

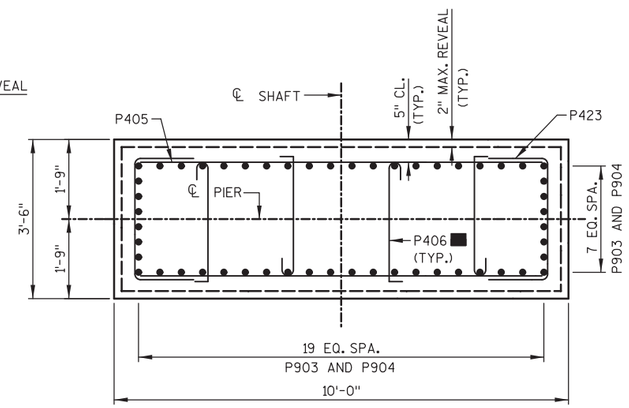
8



SECTION S1
SECTION THRU CAP



SECTION S2
SECTION THRU PEDESTAL



SECTION S3
SECTION THRU SHAFT

PIER 4
BILL OF BARS

UNCOATED: 1,530 LBS.
COATED: 9,570 LBS.
✳ DECORATIVE PEDESTALS: 940 LBS.

MARK	NO.	LENGTH	BENT	COAT	LOCATION
P601	49	10'-6"			FOOTINGS - HORIZ.
P602	36	14'-0"			FOOTINGS - HORIZ.
P903	52	12'-5"	X	X	FOOTING & SHAFT - VERT.
P904	52	20'-3"		X	SHAFT - VERT.
P405	32	9'-2"		X	SHAFT - HORIZ.
P406	64	3'-6"	X	X	SHAFT - HORIZ. - TIES
P807	10	34'-2"	X	X	CAP - HORIZ. - TOP
P608	10	29'-7"		X	CAP - HORIZ. - SIDES
P609	2	26'-10"		X	CAP - HORIZ. - SIDES
P610	2	23'-6"		X	CAP - HORIZ. - SIDES
P611	2	20'-2"		X	CAP - HORIZ. - SIDES
P612	2	16'-10"		X	CAP - HORIZ. - SIDES
P613	2	13'-6"		X	CAP - HORIZ. - SIDES
P614	7	10'-0"		X	CAP - HORIZ. - BTM.
P615	14	11'-2"	X	X	CAP - HORIZ. - BTM.
P616	8	9'-9"	X	X	CAP - HORIZ. - ENDS
△ P517	56	13'-1"	X	X	CAP - STIRRUP - VERT.
P518	34	9'-2"	X	X	CAP - STIRRUP - VERT. - TOP
P519	4	19'-6"		X	CAP - HORIZ. - TOP
✳ P420	20	11'-2"	X	X	PEDESTAL- HORIZ.
✳ P621	40	13'-1"	X	X	PEDESTAL - VERT.
P522	16	2'-0"		X	CAP - VERTICAL
P423	32	5'-10"	X	X	SHAFT - HORIZ. - ENDS

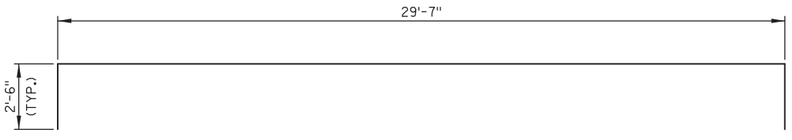
NOTES:
THE FIRST ONE OR TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.

✳ DECORATIVE PEDESTAL REINFORCING IS INCLUDED WITH CATEGORY 0020.

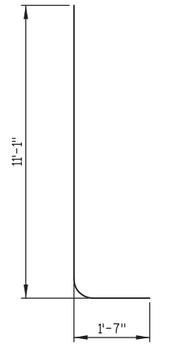
△ BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
P517	4 SERIES OF 14	10'-1" TO 16'-1"

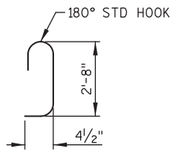
LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



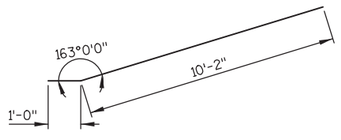
P807



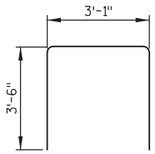
P903



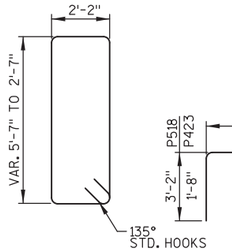
P406



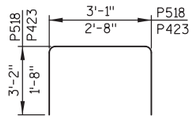
P615



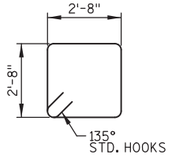
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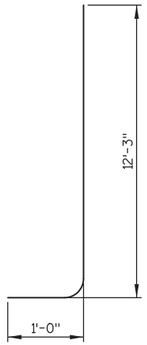
P517



P518, P423



P420



P621

LEGEND

★ PREFABRICATED BRIDGE ANCHOR BOLTS. COORDINATE ANCHOR BOLT REQUIREMENTS WITH PREFABRICATED BRIDGE MANUFACTURER.

■ SPACE P406 @ 1'-0" O.C. VERTICALLY

▬ ½" NON-LAMINATED ELASTOMERIC BEARING PAD. STEEL TROWEL TOP SURFACE OF PIER. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE PIER TOP BEFORE PLACING BEARING PADS AND SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

▼ 12"x3" KEYWAY. ORIENT PARALLEL TO REFERENCE LINE.

◆ RIGID METALLIC CONDUIT, SEE LIGHTING PLAN.

NOTES

SEE SHEET 24 FOR ARCHITECTURAL SURFACE TREATMENT REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

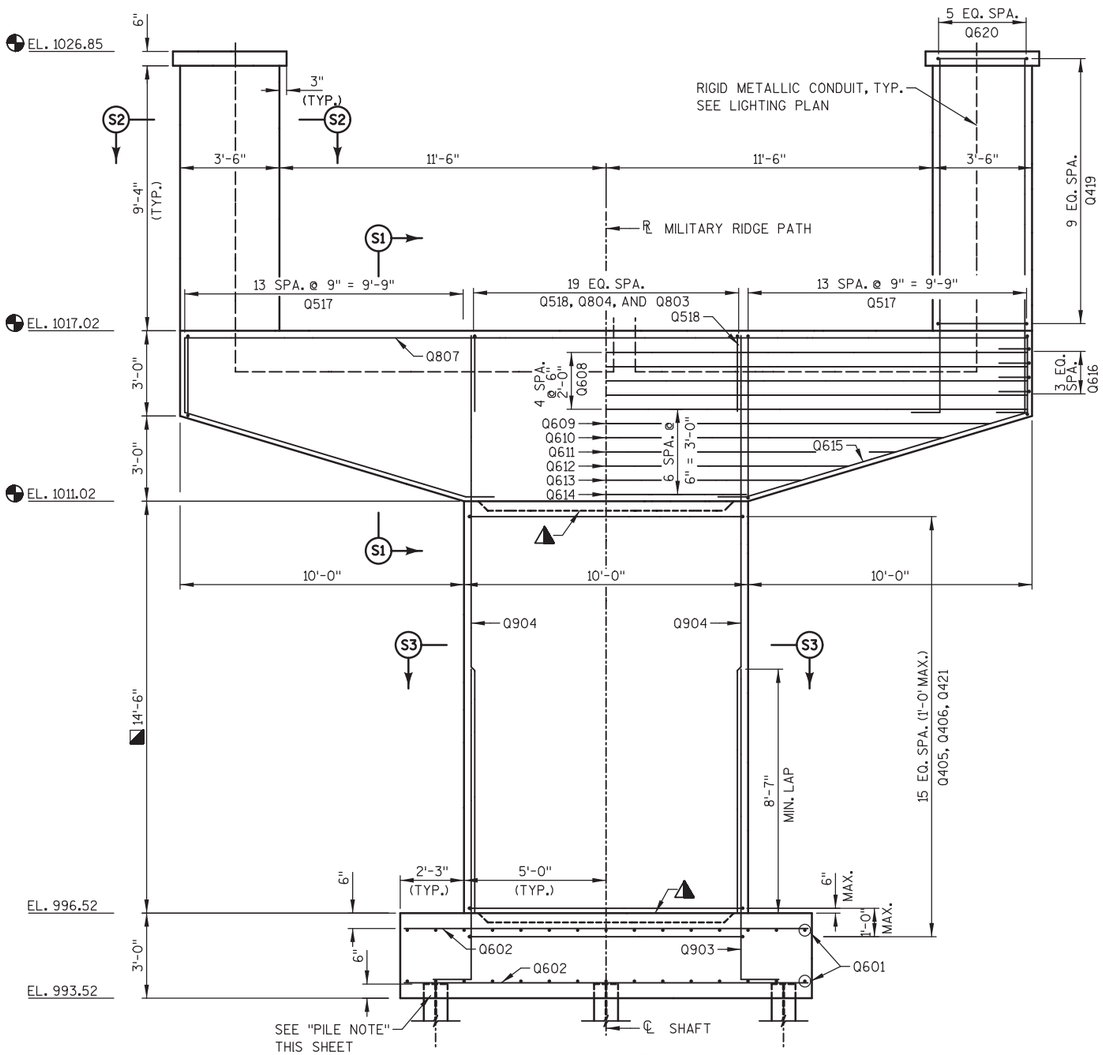
STRUCTURE B-13-666

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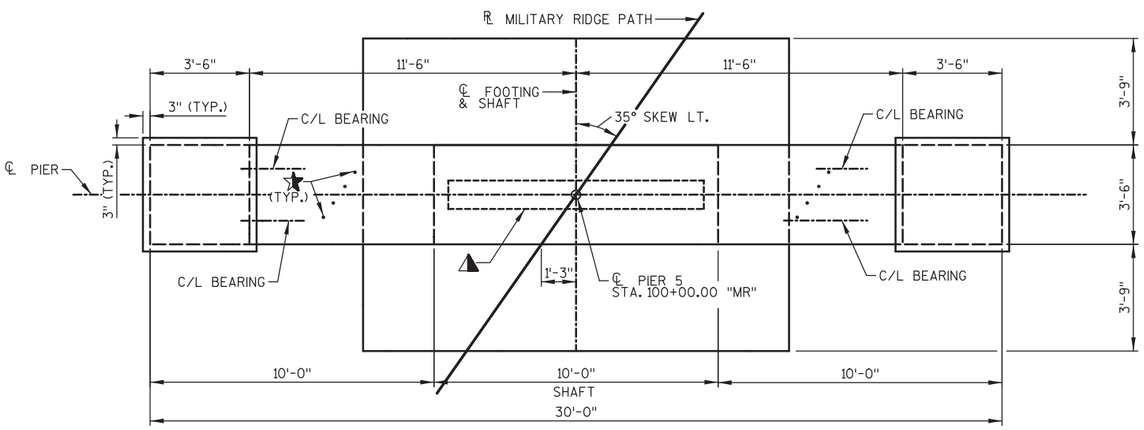
PIER 4 DETAILS

8

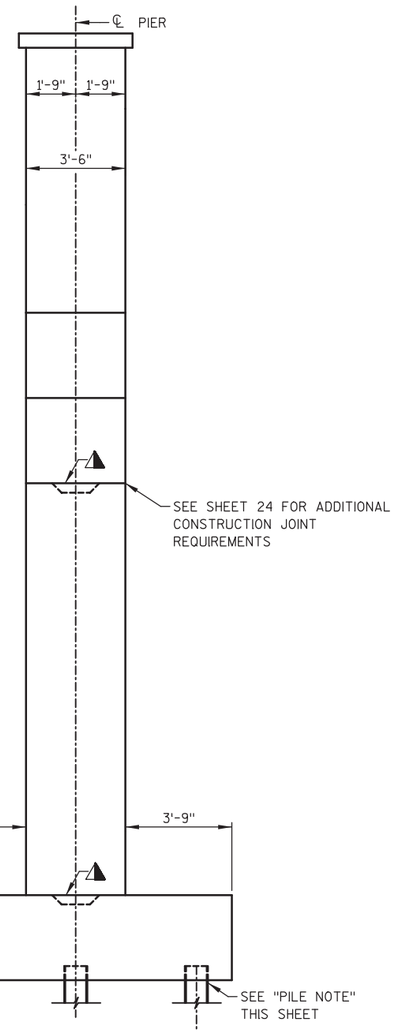
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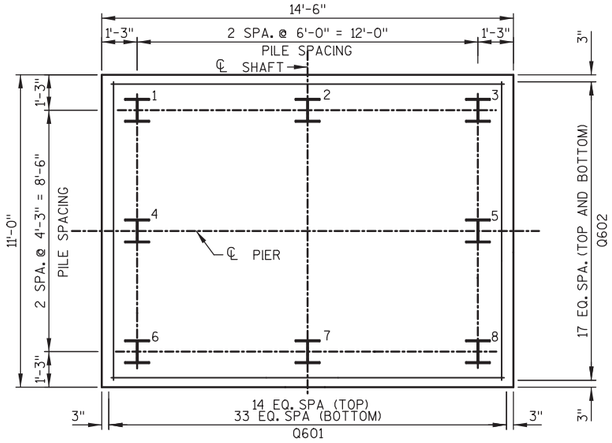
ELEVATION
(LOOKING UP STATION)



PLAN



END VIEW



FOOTING PLAN

LEGEND

- KEYED CONSTRUCTION JOINT FORMED BY A BEVELED KEYWAY 4" × 1'-2" × 8'-0".
- DIMENSION SHOWN IS TO BE USED FOR QUANTITY ESTIMATE ONLY. ACTUAL DIMENSION TO BE DETERMINED BY CONTRACTOR IN ACCORDANCE WITH PREFABRICATED BRIDGE REQUIREMENTS.
- DIMENSIONS AND ELEVATIONS TO BE VERIFIED BY CONTRACTOR IN ACCORDANCE WITH PREFABRICATED BRIDGE REQUIREMENTS. ALL REBAR REVISIONS REQUIRED TO MEET PREFABRICATED BRIDGE REQUIREMENTS SHALL BE REVIEWED BY ENGINEER.
- PREFABRICATED BRIDGE ANCHOR BOLTS. COORDINATE ANCHOR BOLT REQUIREMENTS WITH PREFABRICATED BRIDGE MANUFACTURER.

PILE NOTE

PIER TO BE SUPPORTED ON HP 10x42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE, ESTIMATED 75'LONG.

NOTES

SEE SHEET 21 FOR REINFORCING DETAILS.

ARCHITECTURAL SURFACE TREATMENT NOT SHOWN FOR CLARITY. SEE SHEET 24 FOR REQUIREMENTS.

STATE PROJECT NUMBER

1206-07-83

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

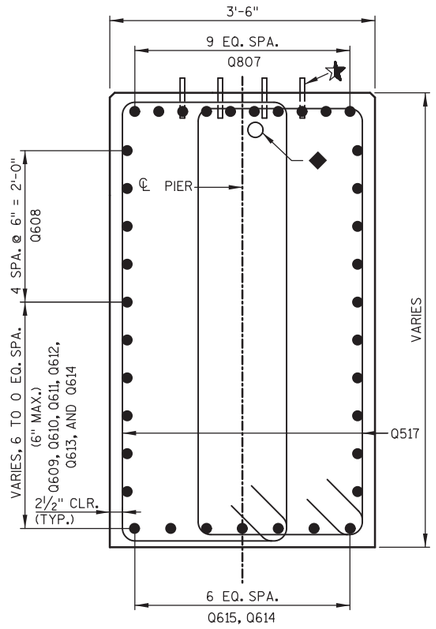
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PIER 5 DETAILS

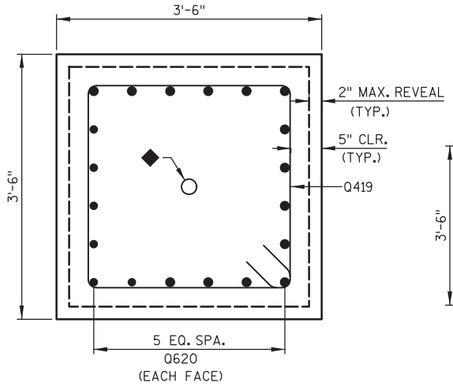
SHEET 20 OF 39
1013

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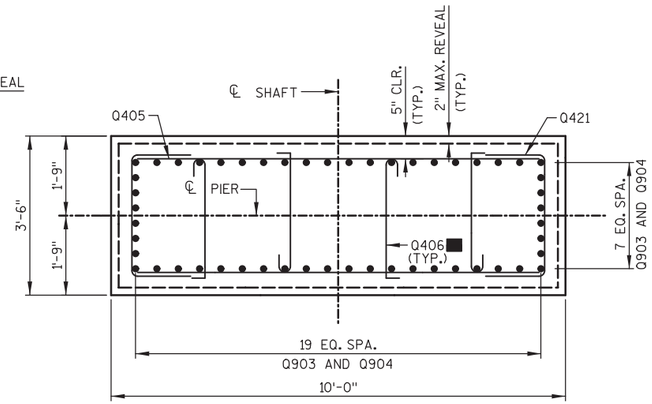
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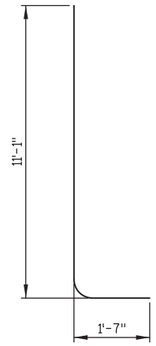
SECTION S1
SECTION THRU CAP



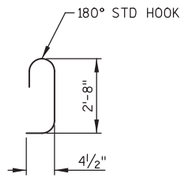
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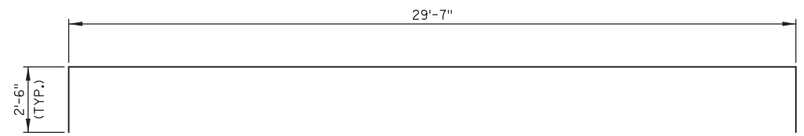
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SECTION THRU SHAFT



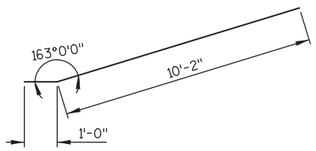
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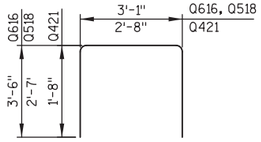
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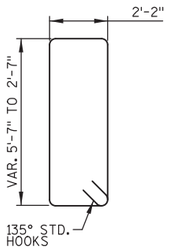
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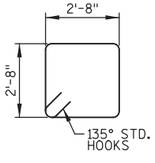
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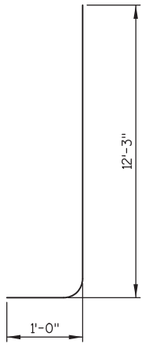
Q616, Q518, Q421



Q517



Q419



Q620

STATE PROJECT NUMBER

1206-07-83

PIER 5
BILL OF BARS

UNCOATED: 1,530 LBS.
COATED: 9,290 LBS.
✳ DECORATIVE PEDESTALS: 940 LBS.

MARK	NO.	LENGTH	BENT	COAT	LOCATION
Q601	49	10'-6"			FOOTINGS - HORIZ.
Q602	36	14'-0"			FOOTINGS - HORIZ.
Q903	52	12'-5"	X	X	FOOTING & SHAFT - VERT.
Q904	52	20'-3"		X	SHAFT - VERT.
Q405	32	9'-2"		X	SHAFT - HORIZ.
Q406	64	3'-6"	X	X	SHAFT - HORIZ. - TIES
Q807	10	34'-2"	X	X	CAP - HORIZ. - TIES
Q608	10	29'-7"		X	CAP - HORIZ. - SIDES
Q609	2	26'-10"		X	CAP - HORIZ. - SIDES
Q610	2	23'-6"		X	CAP - HORIZ. - SIDES
Q611	2	20'-2"		X	CAP - HORIZ. - SIDES
Q612	2	16'-10"		X	CAP - HORIZ. - SIDES
Q613	2	13'-6"		X	CAP - HORIZ. - SIDES
Q614	7	10'-0"		X	CAP - HORIZ. - BTM.
Q615	14	11'-2"	X	X	CAP - HORIZ. - BTM.
Q616	8	9'-9"	X	X	CAP - HORIZ. - ENDS
△ Q517	56	13'-1"	X	X	CAP - STIRRUP - VERT.
Q518	20	8'-0"	X	X	CAP - STIRRUP - VERT. - TOP
✳ Q419	20	11'-2"	X	X	PEDESTAL- HORIZ.
✳ Q620	40	13'-1"	X	X	PEDESTAL - VERT.
Q421	32	5'-10"	X	X	SHAFT - HORIZ. - ENDS

NOTE:
THE FIRST ONE OR TWO DIGITS OF A BAR MARK SGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.

✳ DECORATIVE PEDESTAL REINFORCING IS INCLUDED WITH CATEGORY 0020.

△ BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
Q517	4 SERIES OF 14	10'-1" TO 16'-1"

LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

LEGEND

★ PREFABRICATED BRIDGE ANCHOR BOLTS. COORDINATE ANCHOR BOLT REQUIREMENTS WITH PREFABRICATED BRIDGE MANUFACTURER.

■ SPACE Q406 @ 1'-0" O.C. VERTICALLY

◆ RIGID METALLIC CONDUIT. SEE LIGHTING PLAN.

NOTES

SEE SHEET 24 FOR ARCHITECTURAL SURFACE TREATMENT REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

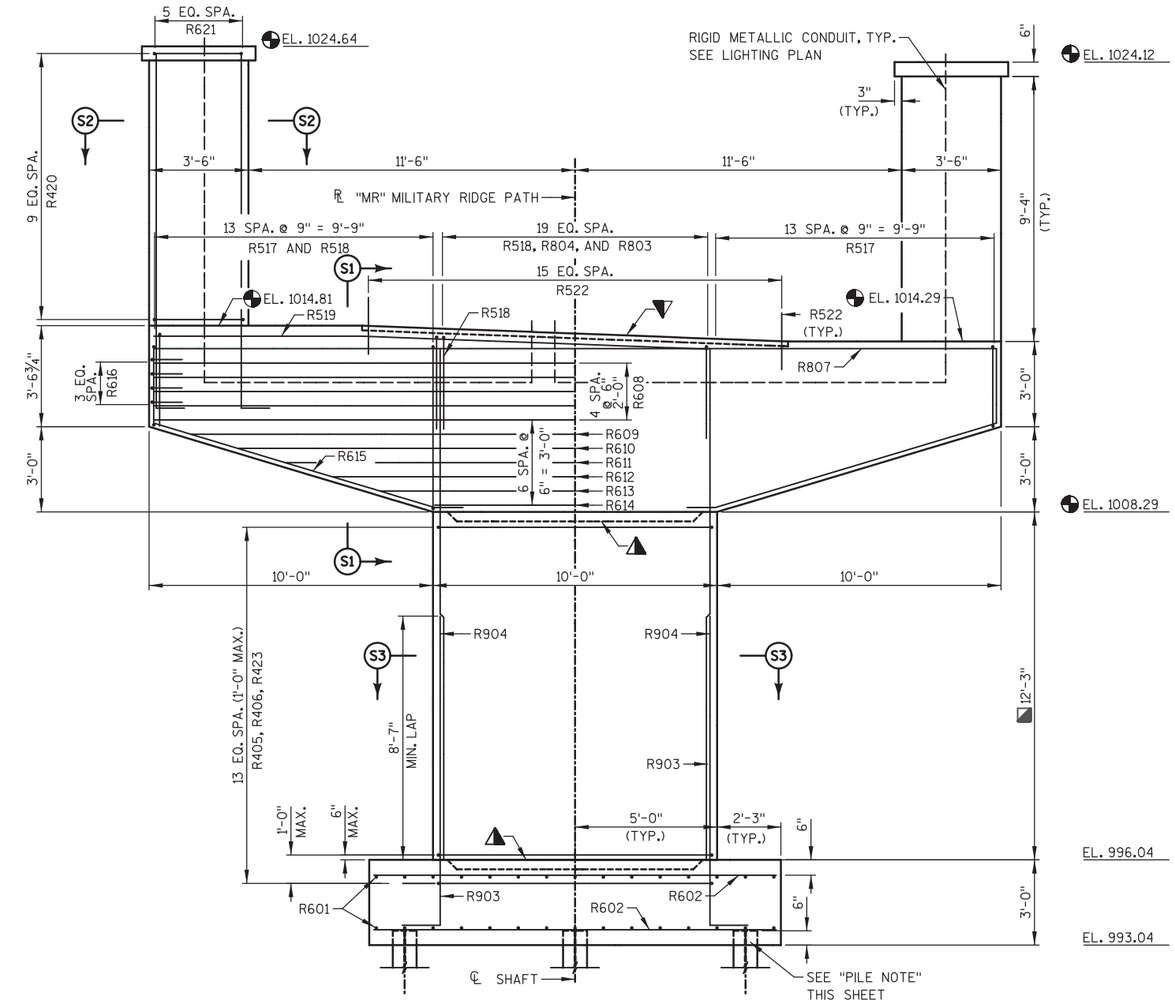
DRAWN BY BSB | PLANS CK'D. BMO

PIER 5
DETAILS

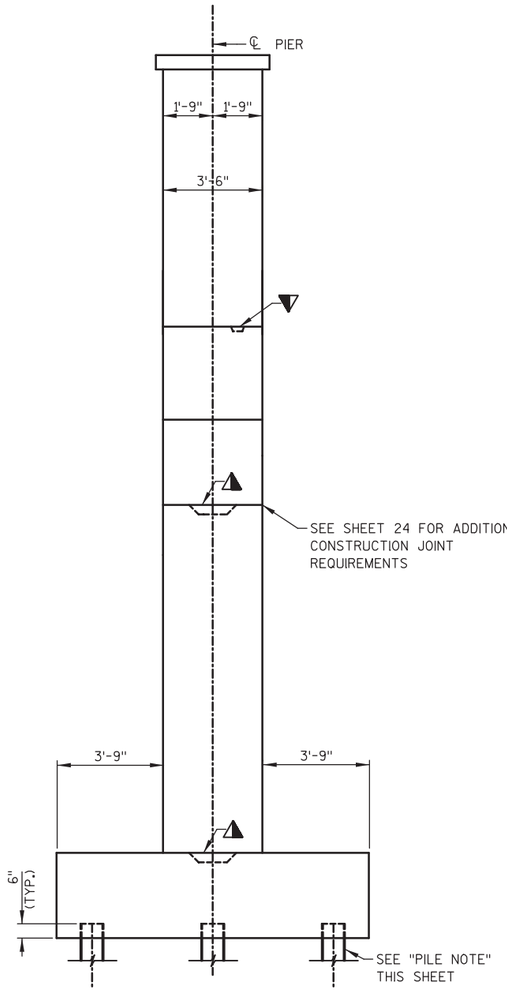
SHEET 21 OF 39
1014

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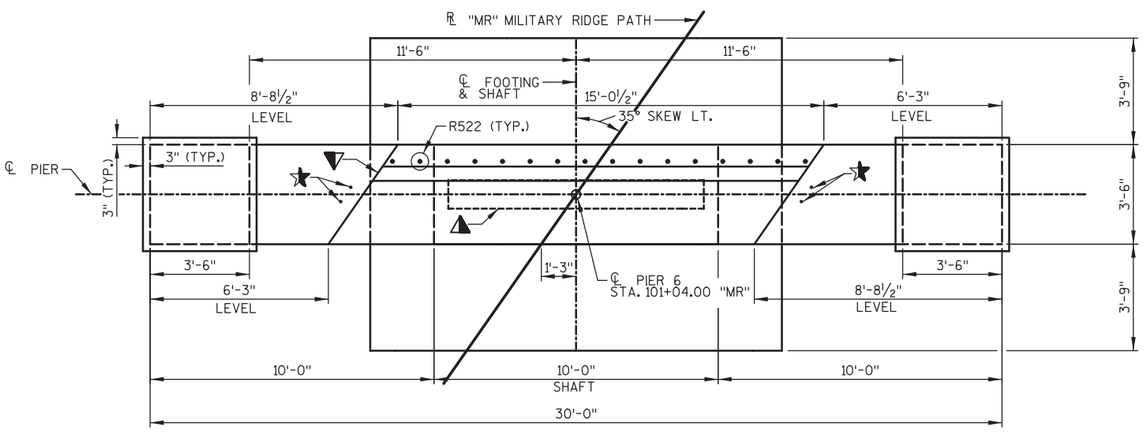
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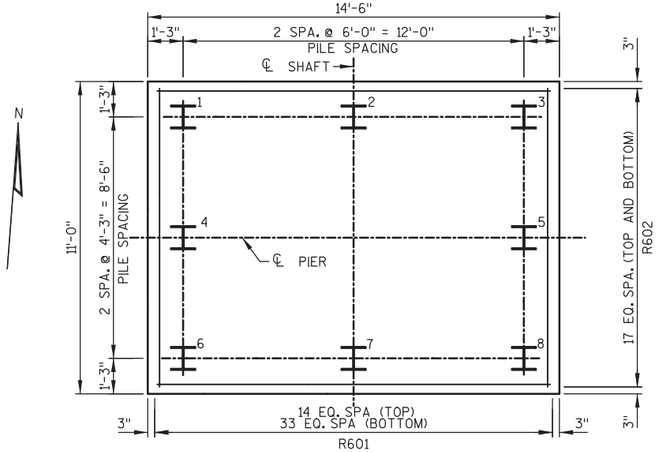
ELEVATION
(LOOKING UP STATION)



END VIEW



PLAN



FOOTING PLAN

STATE PROJECT NUMBER

1206-07-83

LEGEND

- KEYED CONSTRUCTION JOINT FORMED BY A BEVELED KEYWAY 4" x 1'-2" x 8'-0".
- KEYED CONSTRUCTION JOINT FORMED BY A BEVELED KEYWAY 2" x 6". CENTER KEYWAY BELOW SLAB BEARING.
- DIMENSION SHOWN IS TO BE USED FOR QUANTITY ESTIMATE ONLY. ACTUAL DIMENSION TO BE DETERMINED BY CONTRACTOR IN ACCORDANCE WITH PREFABRICATED BRIDGE REQUIREMENTS.
- DIMENSIONS AND ELEVATIONS TO BE VERIFIED BY CONTRACTOR IN ACCORDANCE WITH PREFABRICATED BRIDGE REQUIREMENTS. ALL REBAR REVISIONS REQUIRED TO MEET PREFABRICATED BRIDGE REQUIREMENTS SHALL BE REVIEWED BY ENGINEER.
- PREFABRICATED BRIDGE ANCHOR BOLTS. COORDINATE ANCHOR BOLT REQUIREMENTS WITH PREFABRICATED BRIDGE MANUFACTURER.

PILE NOTE

PIER TO BE SUPPORTED ON HP 10x42 PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE, ESTIMATED 70' LONG.

NOTES

SEE SHEET 23 FOR REINFORCING DETAILS.

ARCHITECTURAL SURFACE TREATMENT NOT SHOWN FOR CLARITY. SEE SHEET 24 FOR REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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PIER 6 DETAILS

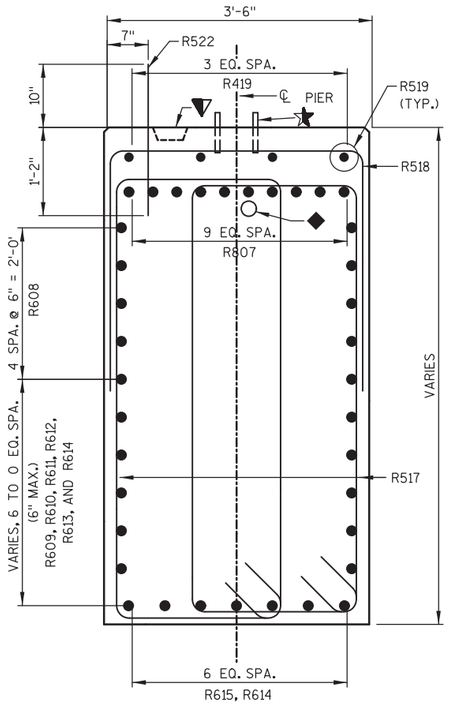
SHEET 22 OF 39
1015

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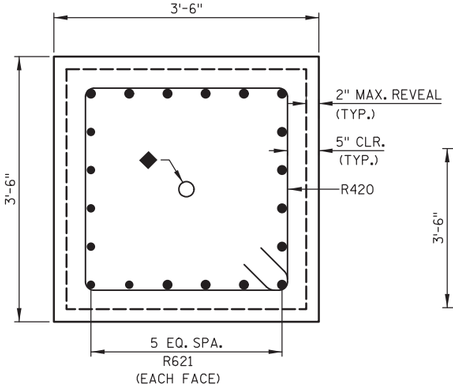
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STATE PROJECT NUMBER

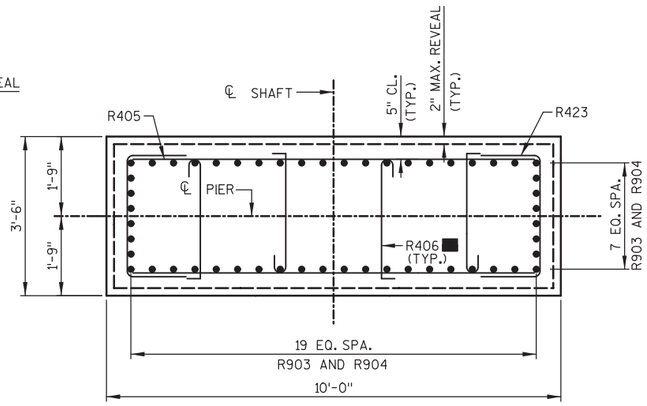
1206-07-83



SECTION S1
SECTION THRU CAP



SECTION S2
SECTION THRU PEDESTAL



SECTION S3
SECTION THRU SHAFT

PIER 6
BILL OF BARS

UNCOATED: 1,530 LBS.
COATED: 9,110 LBS.
✳ DECORATIVE PEDESTALS: 940 LBS.

MARK	NO.	LENGTH	BENT	COAT	LOCATION
R601	49	10'-6"			FOOTINGS - HORIZ.
R602	36	14'-0"			FOOTINGS - HORIZ.
R903	52	12'-5"	X	X	FOOTING & SHAFT - VERT.
R904	52	18'-0"		X	SHAFT - VERT.
R405	28	9'-2"		X	SHAFT - HORIZ.
R406	56	3'-6"	X	X	SHAFT - HORIZ. - TIES
R807	10	34'-2"	X	X	CAP - HORIZ. - TOP
R608	10	29'-7"		X	CAP - HORIZ. - SIDES
R609	2	26'-10"		X	CAP - HORIZ. - SIDES
R610	2	23'-6"		X	CAP - HORIZ. - SIDES
R611	2	20'-2"		X	CAP - HORIZ. - SIDES
R612	2	16'-10"		X	CAP - HORIZ. - SIDES
R613	2	13'-6"		X	CAP - HORIZ. - SIDES
R614	7	10'-0"		X	CAP - HORIZ. - BTM.
R615	14	11'-2"	X	X	CAP - HORIZ. - BTM.
R616	8	9'-9"	X	X	CAP - HORIZ. - ENDS
△ R517	56	13'-1"	X	X	CAP - STIRRUP - VERT.
R518	34	9'-2"	X	X	CAP - STIRRUP - VERT. - TOP
R519	4	19'-6"		X	CAP - HORIZ. - TOP
✳ R420	20	11'-2"	X	X	PEDESTAL - HORIZ.
✳ R621	40	13'-1"	X	X	PEDESTAL - VERT.
R522	16	2'-0"		X	CAP - VERTICAL
R423	28	5'-10"	X	X	SHAFT - HORIZ. - ENDS

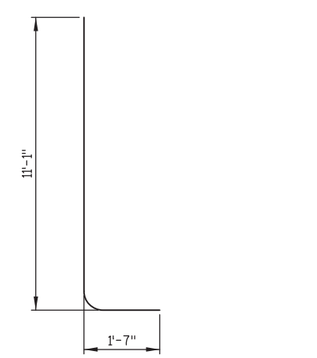
NOTE:
THE FIRST ONE OR TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.

✳ DECORATIVE PEDESTAL REINFORCING IS INCLUDED WITH CATEGORY 0020.

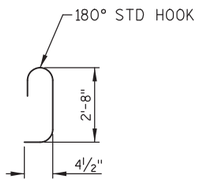
△ BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
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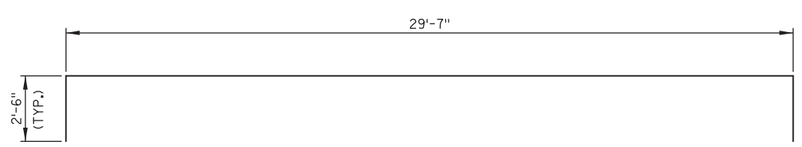
LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



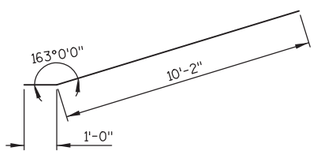
R903



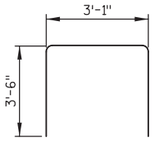
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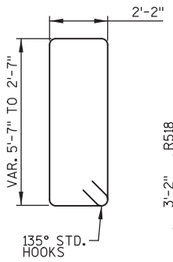
R807



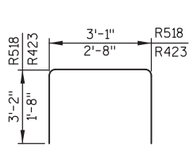
R615



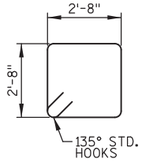
R616



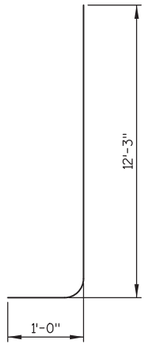
R517



R518, R423



R420



R621

LEGEND

▼ KEYED CONSTRUCTION JOINT FORMED BY A BEVELED KEYWAY 2" x 6". CENTER BELOW SLAB BEARING.

★ PREFABRICATED BRIDGE ANCHOR BOLTS. COORDINATE ANCHOR BOLT REQUIREMENTS WITH PREFABRICATED BRIDGE MANUFACTURER.

■ SPACE R406 @ 1'-0" O.C. VERTICALLY

◆ RIGID METALLIC CONDUIT. SEE LIGHTING PLAN.

NOTES

SEE SHEET 24 FOR ARCHITECTURAL SURFACE TREATMENT REQUIREMENTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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PIER 6 DETAILS

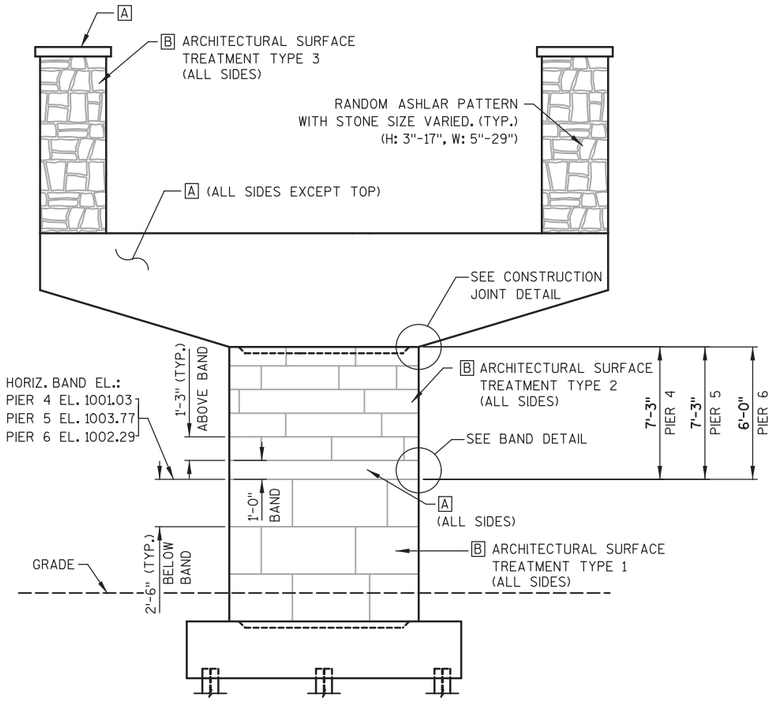
SHEET 23 OF 39
1016

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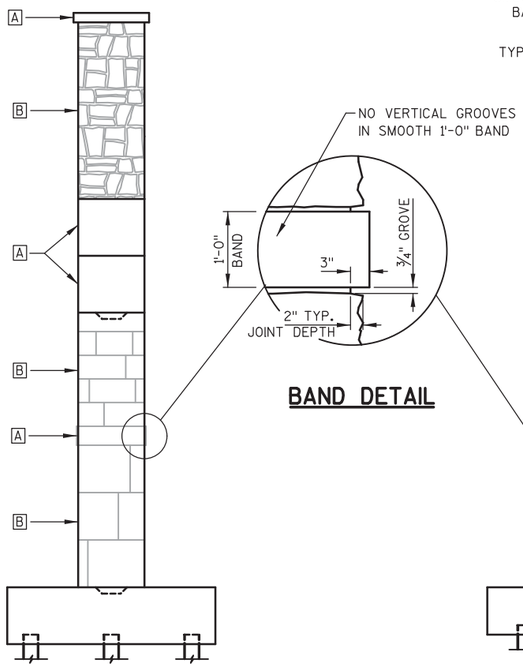
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STATE PROJECT NUMBER

1206-07-83

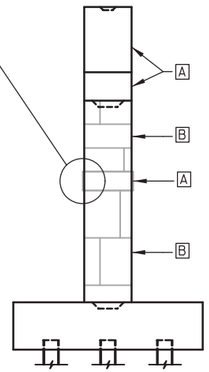


FRONT FACE ELEVATION
PIERS 4-6
AESTHETIC DETAILS

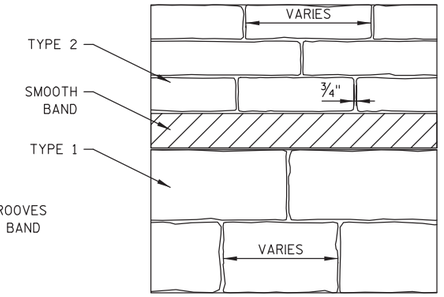


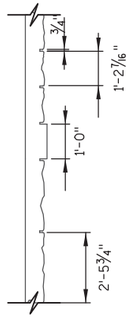
SIDE ELEVATION
PIERS 4-6

BAND DETAIL

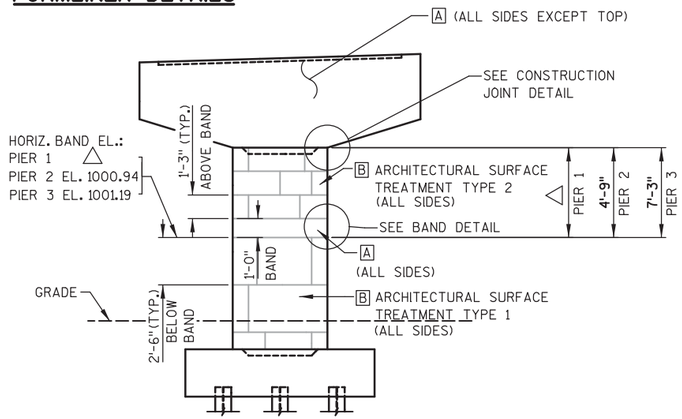


SIDE ELEVATION
PIERS 1-3

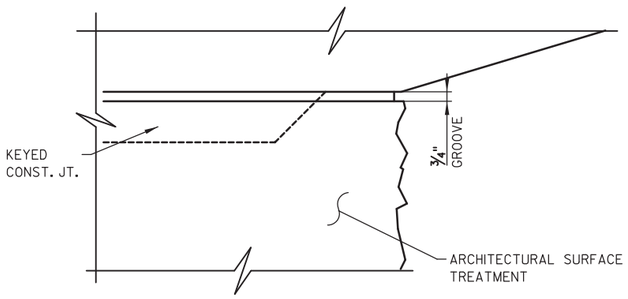




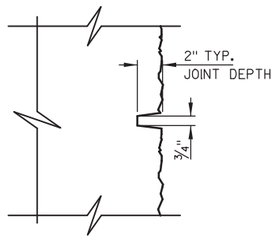
FORMLINER DETAILS



FRONT FACE ELEVATION
PIERS 1-3
AESTHETIC DETAILS

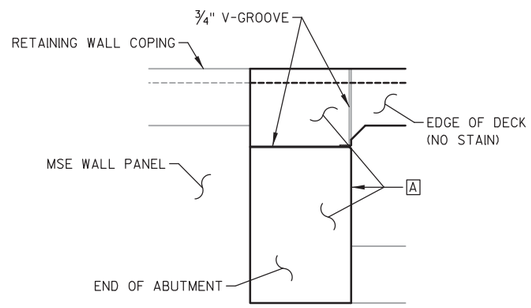


CONSTRUCTION JOINT DETAIL



"MORTAR JOINT" DETAIL

APPLIES TO HORIZONTAL AND VERTICAL JOINTS



ABUTMENT DETAIL

NOTES

FORMLINER PATTERN SHALL BE LEVEL AND CONTINUOUS AROUND ALL CORNERS.

THE COST OF FORMLINER TREATMENTS IS PAID FOR UNDER SPECIAL PROVISION "ARCHITECTURAL SURFACE TREATMENT." MAX ALLOWED FORMLINER RELIEF IS 2". AVERAGE STONE RELIEF IS ¾".

ALL SURFACES OF FORM LINED BLOCKS TO BE SPLIT FACE INCLUDING FACES AND EDGES.

FORM LINER USED ON BRIDGE SHALL MATCH FORM LINER USED ON RETAINING WALLS R-13-242 AND R-13-243.

ARCHITECTURAL SURFACE TREATMENT AND STAIN SHALL EXTEND MIN. 1'-0" BELOW FINISHED GROUND SURFACE ON ALL COLUMN FACES AT PIERS 1, 2, 3, 4 AND 6 AND TO TOP OF FOOTING AT PIER 5.

CONCRETE STAINING SCHEDULE

MARK	COLOR	LOCATION
A	FS 20122	PIER CAP, HORIZONTAL BAND, ABUTMENT
B	FS 33448	BLOCKS

ARCHITECTURAL SURFACE TREATMENT SCHEDULE

TYPE	RELIEF AVE.	RELIEF MAX.	DESCRIPTION
1	¾"	2"	30" NOMINAL COURSING OF RECTANGULAR CUT STONE PATTERN. STONE LENGTH VARIES (12" TO 48")
2	¾"	2"	15" NOMINAL COURSING OF RECTANGULAR CUT STONE PATTERN. STONE LENGTH VARIES (12" TO 48")
3	1¼"	1⅝"	RANDOM ASHLAR PATTERN WITH STONE SIZE VARIED. (H: 3"-17", W: 5"-29")

LEGEND

△ NO HORIZONTAL BAND AT PIER 1. PROVIDE ARCHITECTURAL SURFACE TREATMENT TYPE 1 ONLY ON COLUMN FROM PIER CAP TO 1' BELOW FINISHED GROUND.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY BSB | PLANS CK'D. BMO

AESTHETIC DETAILS

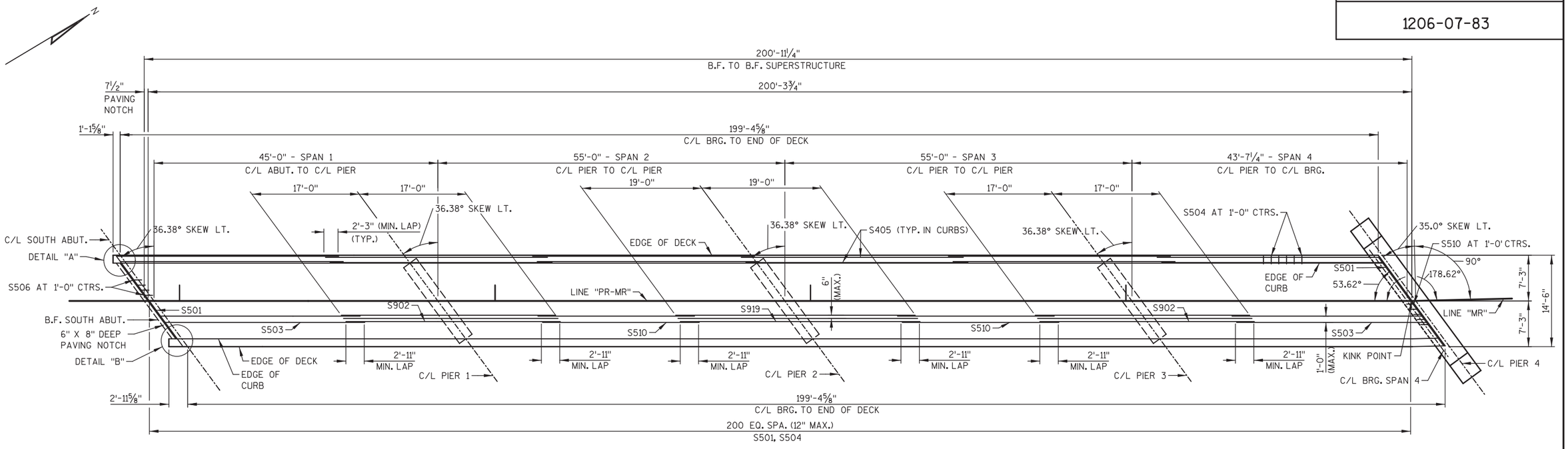
SHEET 24 OF 39
1017

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8

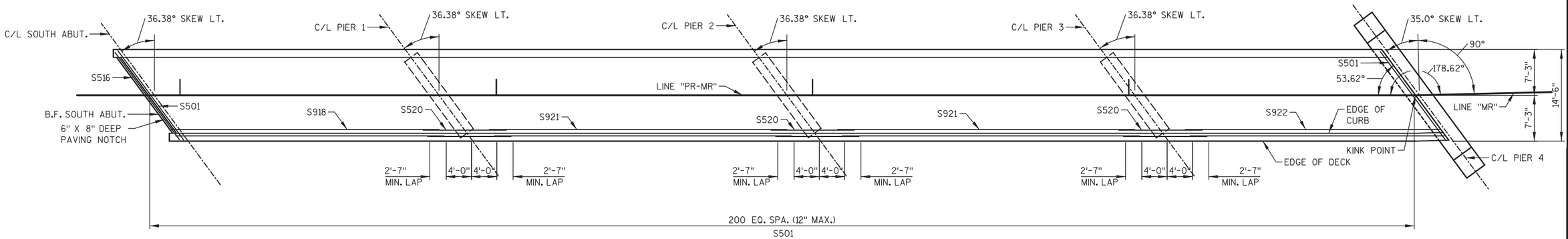
STATE PROJECT NUMBER

1206-07-83



PLAN

(SHOWING TOP MAT SLAB REINFORCING)



PLAN

(SHOWING BOTTOM MAT SLAB REINFORCING)

NOTES

SEE SHEET 27-28 FOR REINFORCING DETAILS AND TOP OF DECK ELEVATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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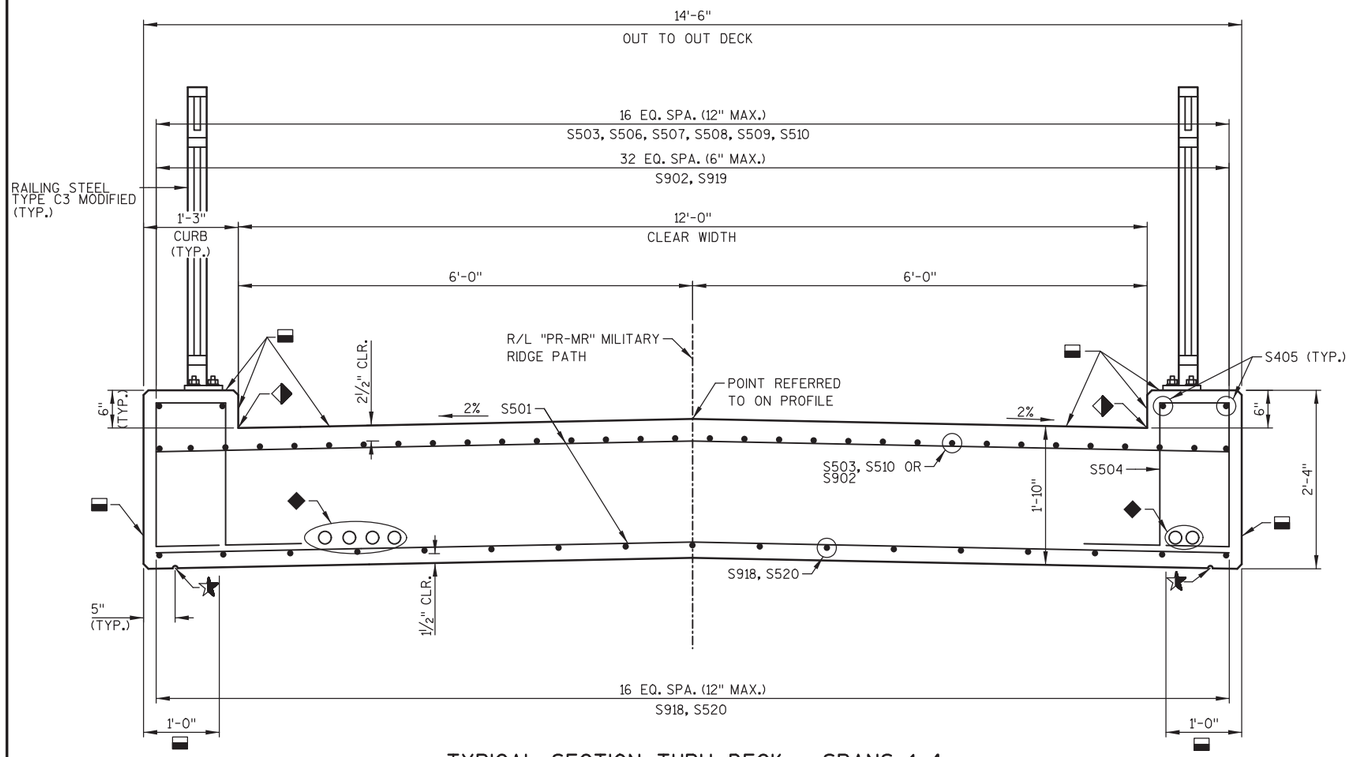
SUPERSTRUCTURE
SPAN 1-4 PLAN

SHEET 25 OF 39
1018

8

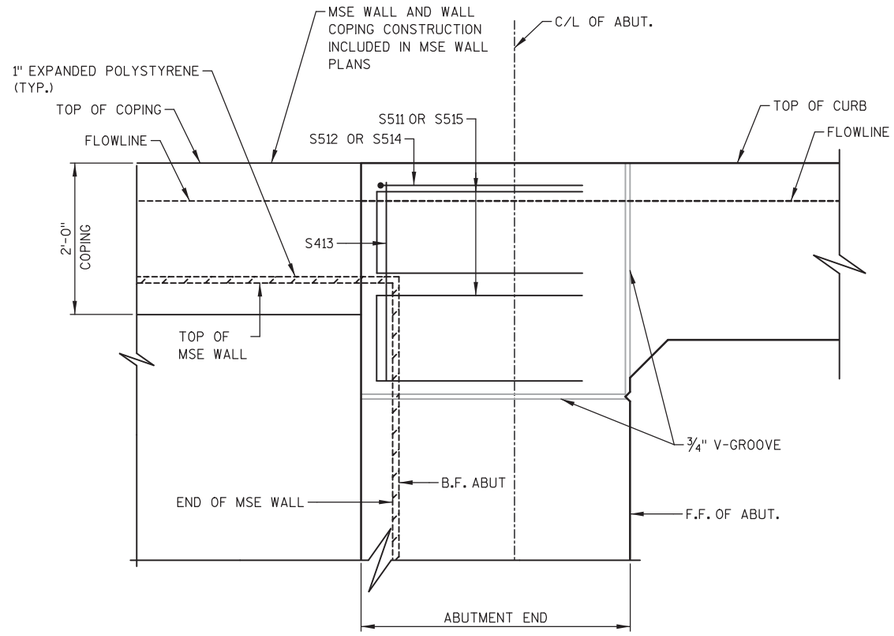
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STATE PROJECT NUMBER
1206-07-83

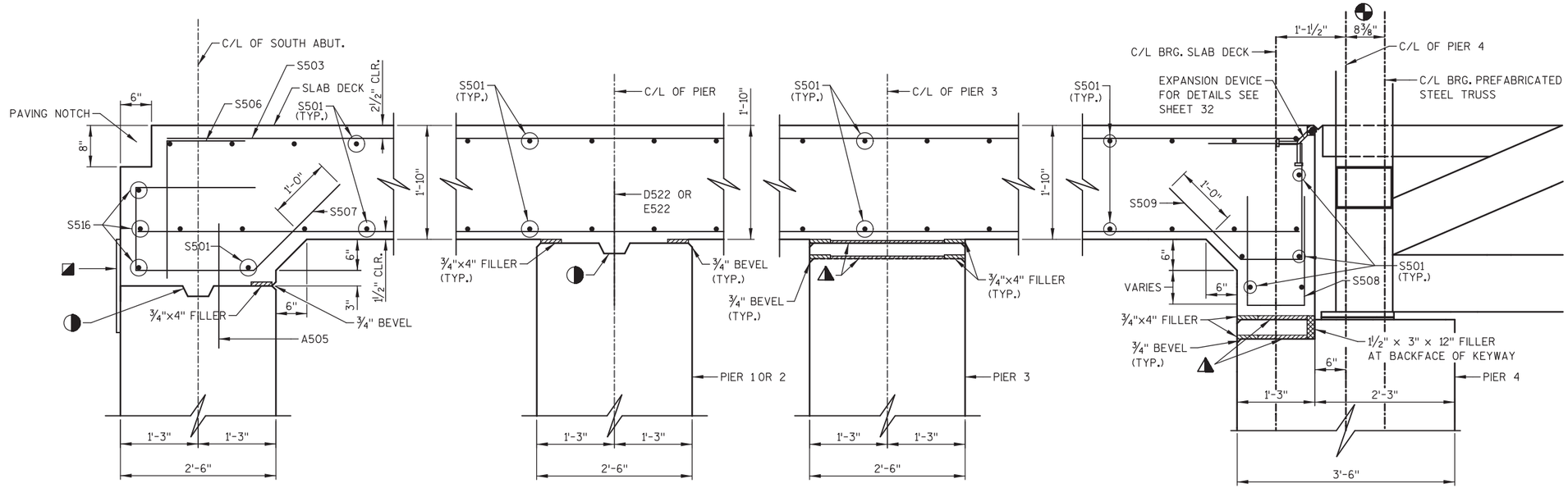


TYPICAL SECTION THRU DECK - SPANS 1-4

(LOOKING NORTH)



TYPICAL END VIEW AT ABUTMENT



TYPICAL SECTION THRU SOUTH ABUT.

(SECTION CUT NORMAL TO ABUT.)

TYPICAL SECTION THRU PIERS 1-2

(SECTION CUT NORMAL TO PIER)

TYPICAL SECTION THRU PIER 3

(SECTION CUT NORMAL TO PIER)

TYPICAL SECTION THRU PIER 4

(SECTION CUT NORMAL TO PIER)

LEGEND

- EDGE OF DECK ELEVATIONS ARE TO THIS LOCATION SEE TABLE ON SHEET 32.
- ¾" V-GROOVE. EXTEND V-GROOVE TO 3" FROM FRONT FACE OF ABUTMENT.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- HORIZONTAL CONSTRUCTION JOINT KEYWAY FORMED BY A BEVELED 2" x 6".
- RIGID METALLIC CONDUIT. SEE LIGHTING PLAN FOR SIZE AND LAYOUT.
- COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.
- ½" NON-LAMINATED ELASTOMERIC BEARING PAD.
- DIMENSION TO BE VERIFIED BY CONTRACTOR IN ACCORDANCE WITH PREFABRICATED BRIDGE REQUIREMENTS.

NOTES

SEE SHEET 27 FOR REINFORCING DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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TYPICAL SECTION SPANS 1-4

SHEET 26 OF 39
1019

8

8

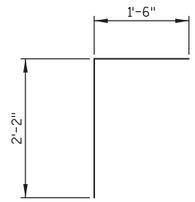
STATE PROJECT NUMBER
1206-07-83

SUPERSTRUCTURE: SPANS 1-4
BILL OF BARS

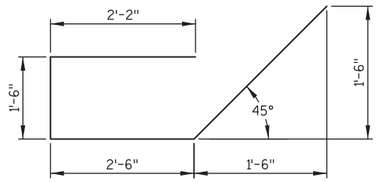
COATED: 36,290 LBS.

MARK	NO.	LENGTH	BENT	COAT	LOCATION
S501	408	17'-7"		X	SLAB/ABUTMENT DIAPHRAGM - TRANSVERSE
S902	66	34'-0"		X	SLAB - LONGITUDINAL - TOP - PIERS 1, 3
S503	34	32'-0"		X	SLAB - LONGITUDINAL - TOP - SPANS 1, 4
S504	402	6'-1"	X	X	CURB - VERTICAL - STIRRUPS
S405	24	35'-3"		X	CURB - LONGITUDINAL - TOP
S506	17	3'-7"	X	X	ABUTMENT DIAPHRAGM - VERT.
S507	17	8'-0"	X	X	ABUTMENT DIAPHRAGM - VERT.
S508	17	4'-5"	X	X	PIER DIAPHRAGM - VERT.
S509	17	6'-10"	X	X	PIER DIAPHRAGM - VERT.
S510	34	25'-0"		X	SLAB - LONGITUDINAL - TOP - SPANS 2, 3
S511	2	8'-7"	X	X	ABUTMENT DIAPHRAGM - SE CORNER - VERT.
S512	1	8'-4"	X	X	ABUTMENT DIAPHRAGM - SE CORNER - HORIZ.
S413	2	2'-8"		X	ABUTMENT DIAPHRAGM - CORNERS - VERT.
S514	1	5'-2"	X	X	ABUTMENT DIAPHRAGM - SW CORNER - HORIZ.
S515	2	5'-5"	X	X	ABUTMENT DIAPHRAGM - SW CORNER - VERT.
S516	3	16'-6"		X	SLAB - TRANSVERSE - PAVING NOTCH
S918	17	41'-10"		X	SLAB - LONGITUDINAL - BOTTOM - SPAN 1
S919	33	38'-0"		X	SLAB - LONGITUDINAL - TOP - PIER 2
S520	51	20'-7"		X	SLAB - LONGITUDINAL - BOTTOM
S921	34	47'-0"		X	SLAB - LONGITUDINAL - BOTTOM - SPANS 2, 3
S922	17	40'-3"		X	SLAB - LONGITUDINAL - BOTTOM - SPAN 4

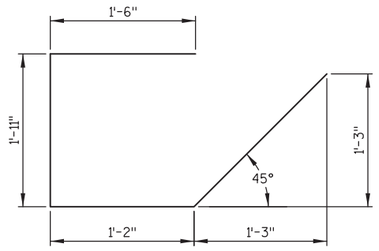
NOTE: THE FIRST ONE OR TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.
DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.



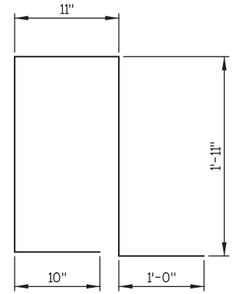
S506



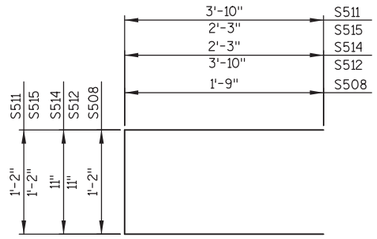
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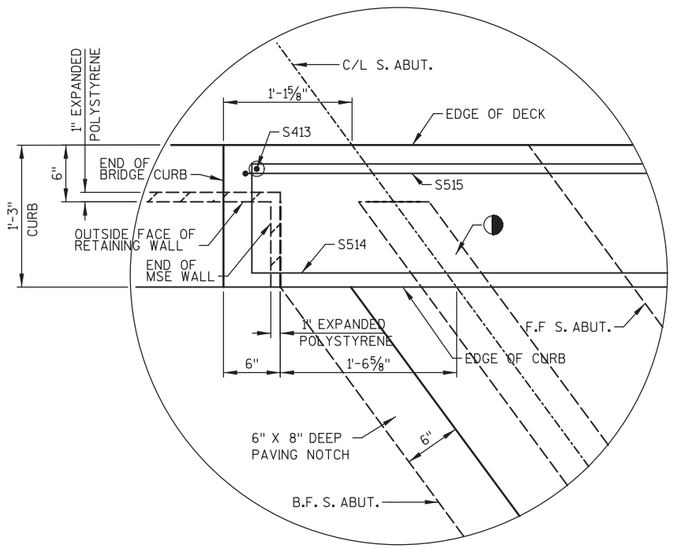
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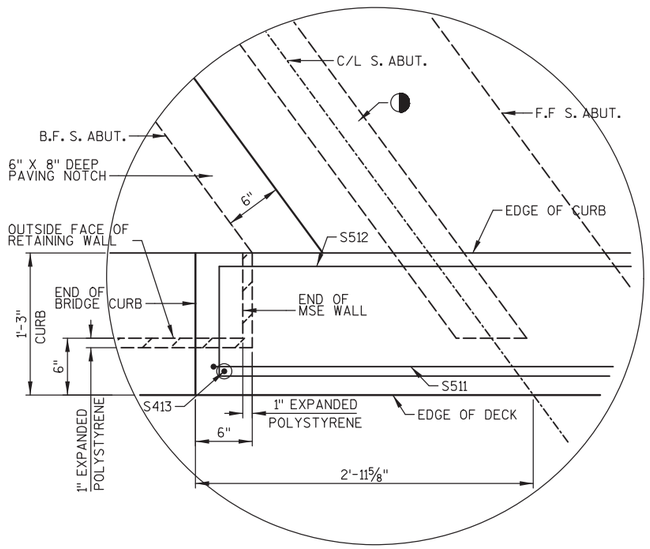
S504



S508, S512, S514
S515, S511



DETAIL "A"



DETAIL "B"

LEGEND

◑ HORIZONTAL CONSTRUCTION JOINT KEYWAY AT THE TOP OF ABUTMENT BELOW.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY	BSB	PLANS CK'D.	BMO

SUPERSTRUCTURE SPANS 1-4 DETAILS

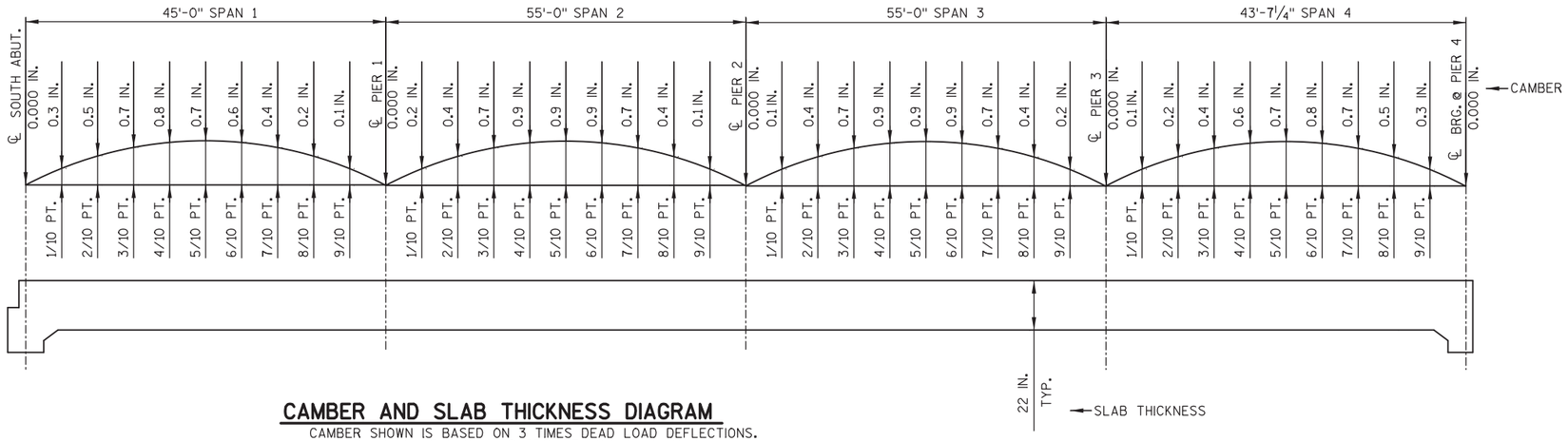
SHEET 27 OF 39

1020

8

8

STATE PROJECT NUMBER
1206-07-83



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

	TOP OF SLAB ELEVATION AT FINAL GRADE
LESS	SLAB THICKNESS
PLUS	CAMBER
PLUS	FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
EQUALS	TOP OF SLAB FALSEWORK ELEVATION.

SURVEY TOP OF SLAB ELEVATIONS

	ABUTMENT	5/10 PT.	PIER 1	5/10 PT.	PIER 2	5/10 PT.	PIER 3	5/10 PT.	PIER 4
WEST GUTTER									
CROWN									
EAST GUTTER									

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE ℄ OF ABUTMENTS, THE ℄ OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR ℞. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

NOTES

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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SUPERSTRUCTURE
SPANS 1-4 DETAILS

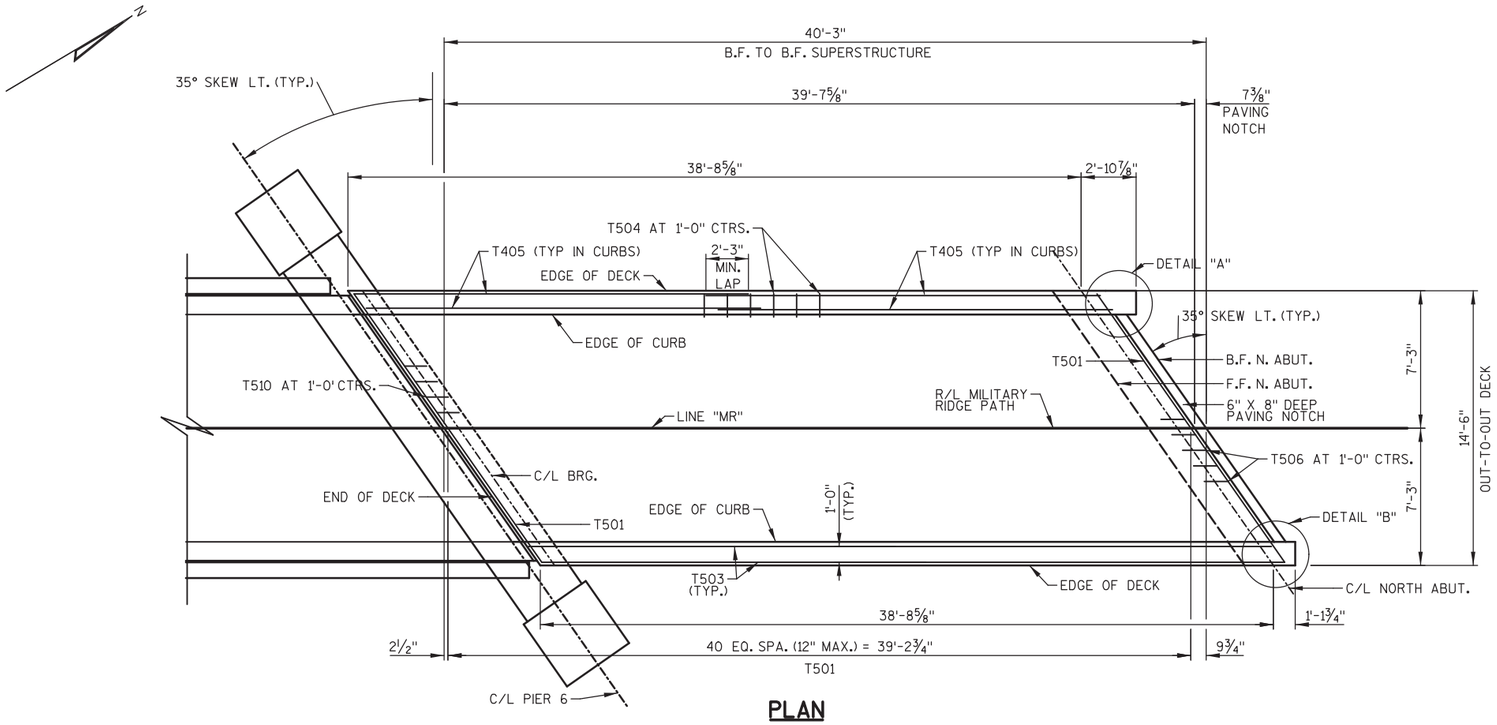
SHEET 28 OF 39
1021

8

8

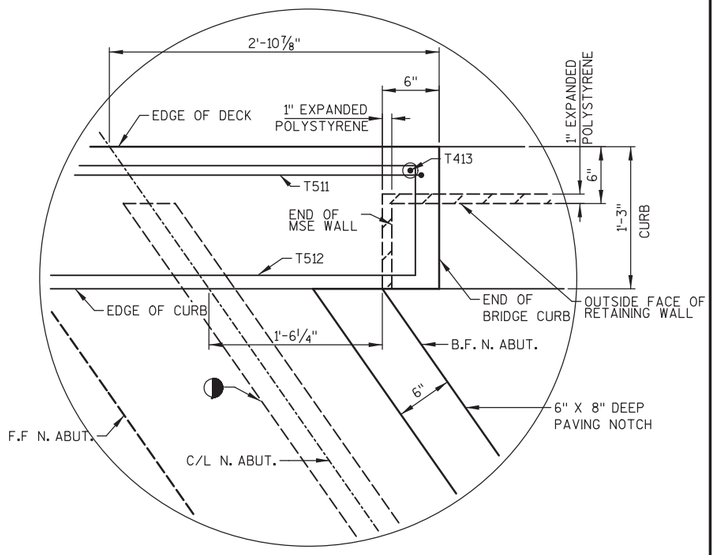
STATE PROJECT NUMBER

1206-07-83

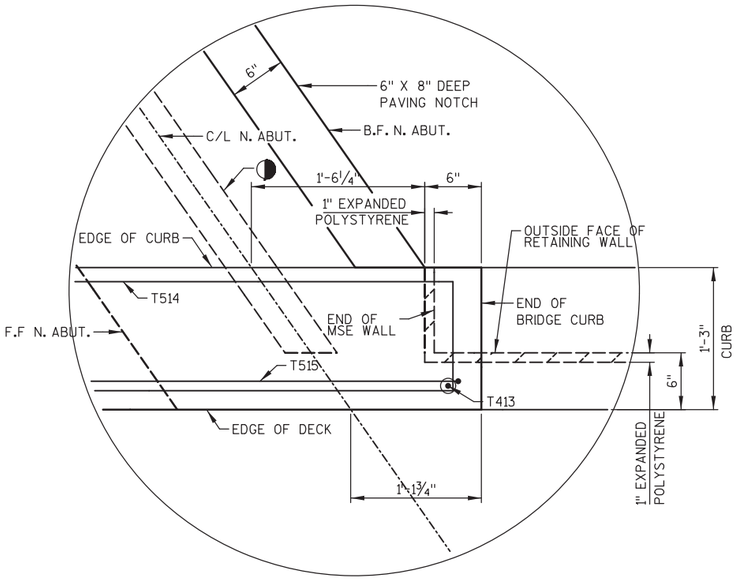


PLAN

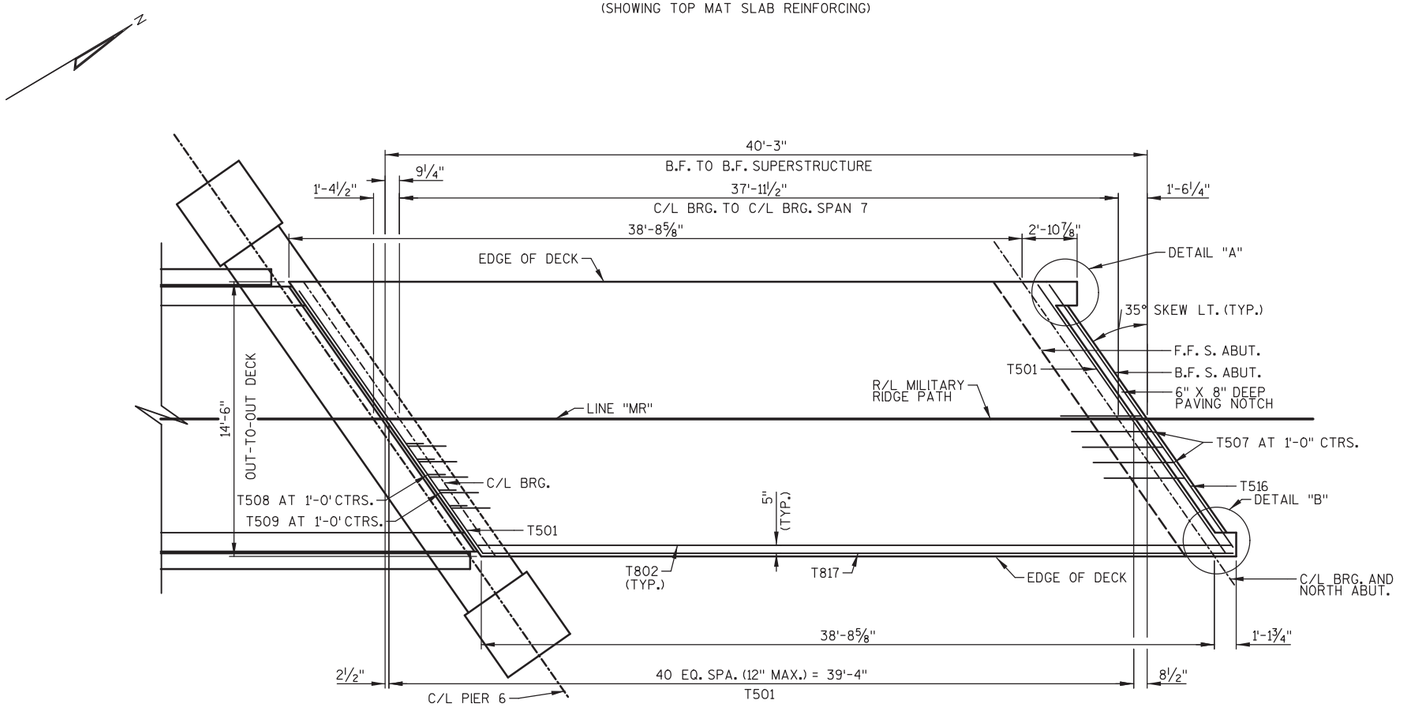
(SHOWING TOP MAT SLAB REINFORCING)



DETAIL "A"



DETAIL "B"



PLAN

(SHOWING BOTTOM MAT SLAB REINFORCING)

LEGEND

◑ HORIZONTAL CONSTRUCTION JOINT KEYWAY AT THE TOP OF ABUTMENT BELOW.

NOTES

SEE SHEET 31 FOR REINFORCING DETAILS.

SEE SHEET 32 FOR TOP OF DECK ELEVATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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SUPERSTRUCTURE SPAN 7 PLAN

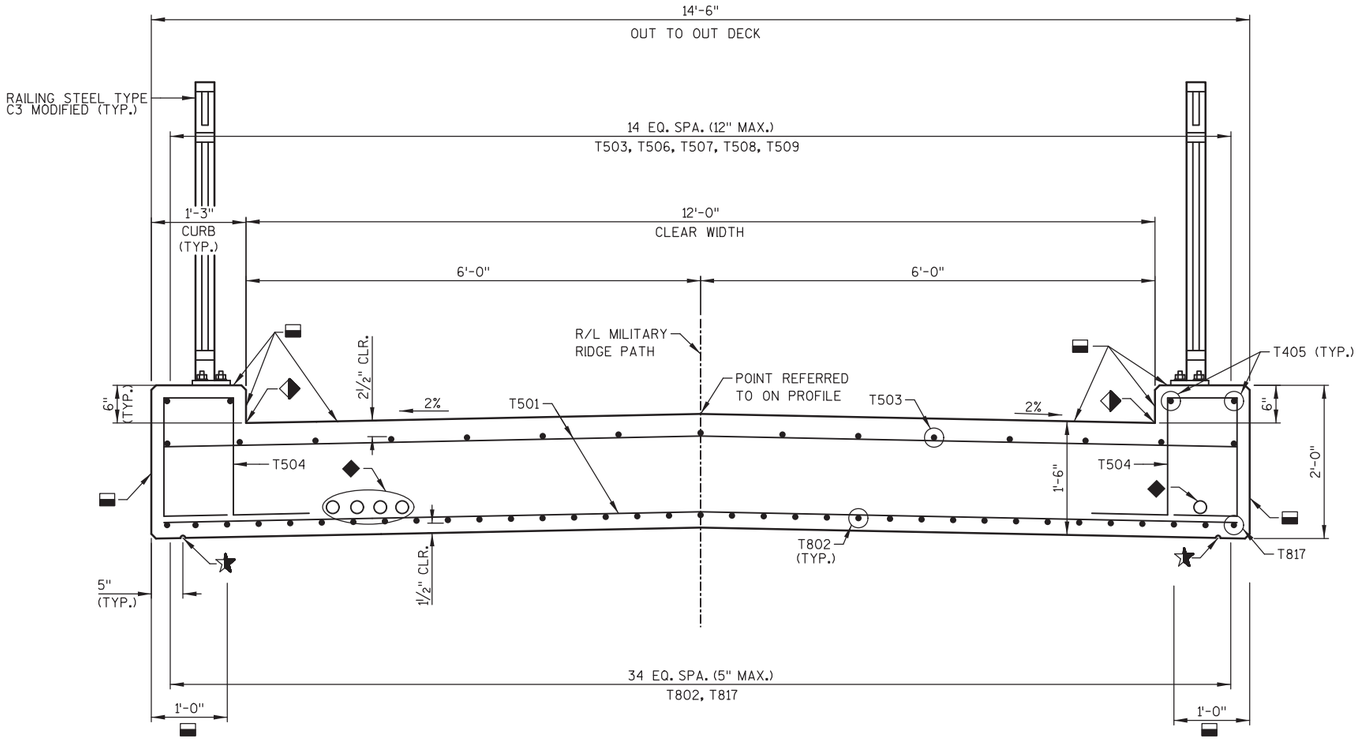
SHEET 29 OF 39

1022

8

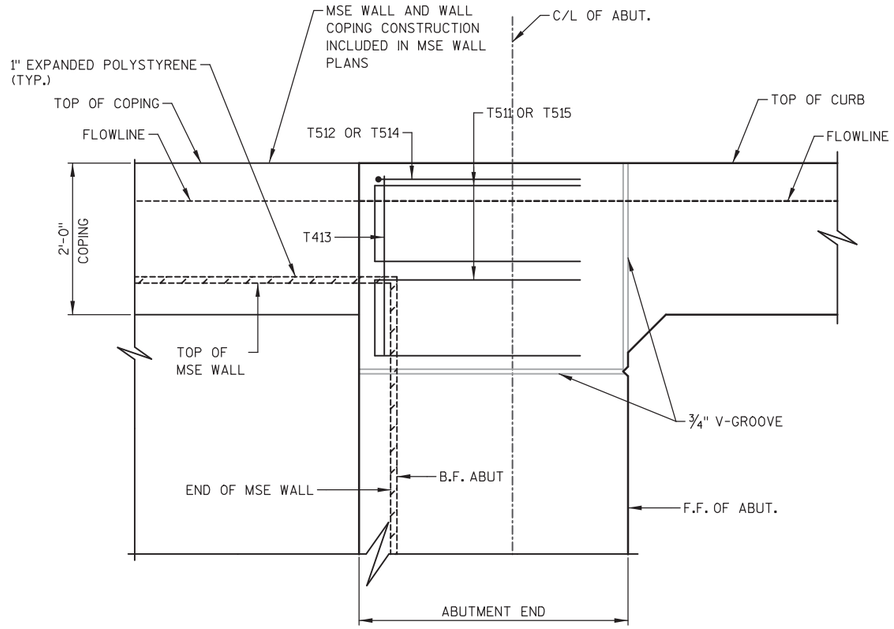
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STATE PROJECT NUMBER
1206-07-83

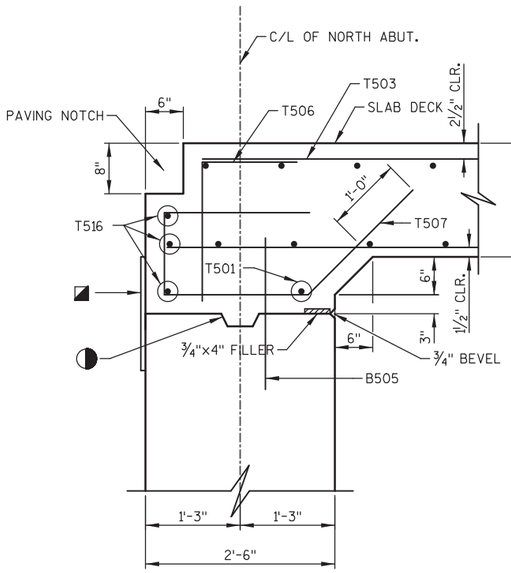


TYPICAL SECTION THRU DECK - SPAN 7

(LOOKING NORTH)

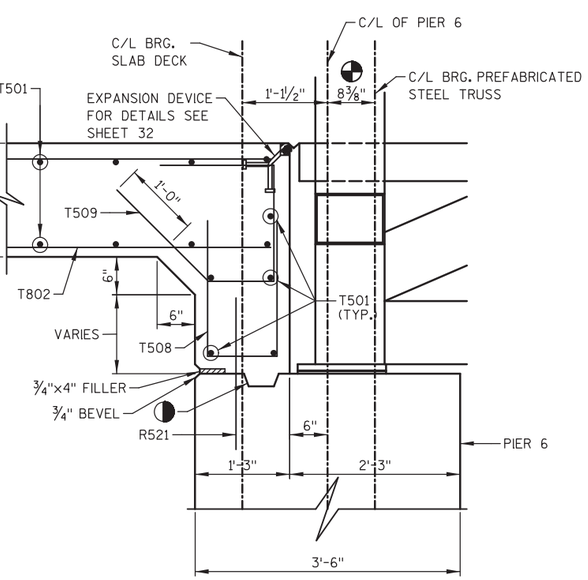


TYPICAL END VIEW AT ABUTMENT



TYPICAL SECTION THRU ABUT.

(SECTION CUT NORMAL TO ABUTMENT)



TYPICAL SECTION THRU PIER

(SECTION CUT NORMAL TO PIER)

LEGEND

- EDGE OF DECK ELEVATIONS ARE TO THIS LOCATION SEE TABLE ON SHEET 32.
- ¾" V-GROOVE. EXTEND V-GROOVE TO 3" FROM FRONT FACE OF ABUTMENT.
- 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- HORIZONTAL CONSTRUCTION JOINT KEYWAY FORMED BY A BEVELED 2" × 6".
- RIGID METALLIC CONDUIT. SEE LIGHTING PLAN FOR SIZE AND LAYOUT.
- COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.
- DIMENSIONS TO BE VERIFIED BY CONTRACTOR IN ACCORDANCE WITH PREFABRICATED BRIDGE REQUIREMENTS.

NOTES

SEE SHEET 31 FOR REINFORCING DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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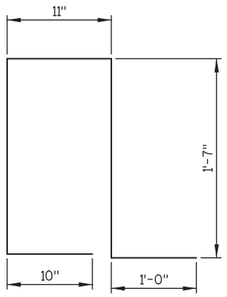
TYPICAL SECTION SPAN 7

SHEET 30 OF 39

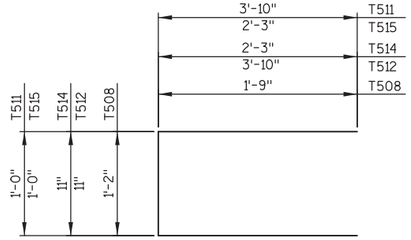
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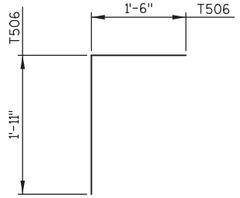
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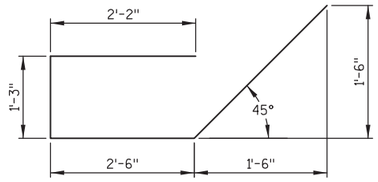
T504



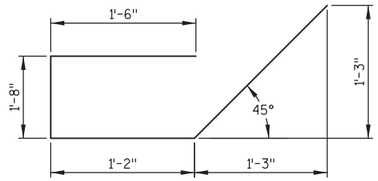
T508, T511, T512, T514, T515



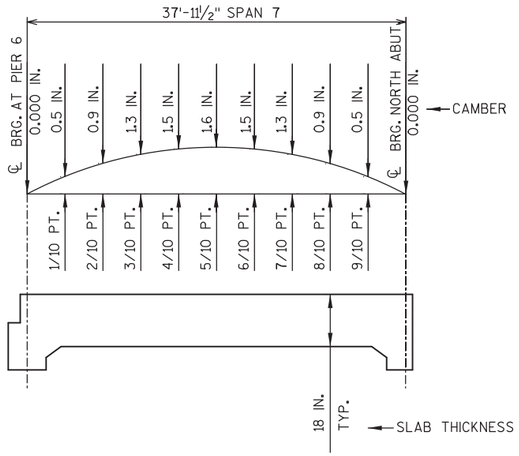
T506



T507



T509



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

	TOP OF SLAB ELEVATION AT FINAL GRADE
LESS	SLAB THICKNESS
PLUS	CAMBER
PLUS	FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
EQUALS	TOP OF SLAB FALSEWORK ELEVATION.

STATE PROJECT NUMBER

1206-07-83

SUPERSTRUCTURE : SPAN 7
BILL OF BARS

COATED: 6,930 LBS.

MARK	NO.	LENGTH	BENT	COAT	LOCATION
T501	88	17'-3"		X	SLAB/ABUTMENT DIAPHRAGM - TRANSVERSE
T802	34	39'-11"		X	SLAB - LONGITUDINAL - BOTTOM
T503	15	39'-2"		X	SLAB - LONGITUDINAL - TOP
T504	82	5'-5"	X	X	CURB - VERTICAL - STIRRUPS
T405	8	20'-10"		X	CURB - LONGITUDINAL - TOP
T506	15	3'-4"	X	X	ABUTMENT DIAPHRAGM - VERT.
T507	15	7'-9"	X	X	ABUTMENT DIAPHRAGM - VERT.
T508	15	4'-5"	X	X	PIER DIAPHRAGM - VERT.
T509	15	5'-10"	X	X	PIER DIAPHRAGM - VERT.
					NOT USED
T511	2	8'-5"	X	X	ABUTMENT DIAPHRAGM - NW CORNER - VERT.
T512	1	8'-4"	X	X	ABUTMENT DIAPHRAGM - NW CORNER - HORIZ.
T413	2	2'-5"		X	ABUTMENT DIAPHRAGM - CORNERS - VERT.
T514	1	5'-2"	X	X	ABUTMENT DIAPHRAGM - NE CORNER - HORIZ.
T515	2	5'-3"	X	X	ABUTMENT DIAPHRAGM - NE CORNER - VERT.
T516	3	16'-11"		X	SLAB - TRANSVERSE - PAVING NOTCH
T817	1	39'-6"		X	SLAB - LONGITUDINAL - BOTTOM - EAST EDGE

NOTE: THE FIRST ONE OR TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.
DIMENSIONS FOR BENDING ARE OUT TO OUT OF BAR.

SURVEY TOP OF SLAB ELEVATIONS

	PIER 4	5/10 PT.	NORTH ABUTMENT
WEST GUTTER			
CROWN			
EAST GUTTER			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE ℄ OF ABUTMENTS, THE ℄ OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR ℞. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

NOTES

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY BSB | PLANS CK'D. BMO

SUPERSTRUCTURE SPAN 7 DETAILS

SHEET 31 OF 39

1024

8

8

STATE PROJECT NUMBER
1206-07-83

TOP OF DECK ELEVATIONS: SPANS 1-4

LOCATION	WEST GUTTER LINE 6.00' LT		C/L BRIDGE -		EAST GUTTER LINE 6.00' RT	
	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.
C/L SOUTH ABUT	96+91.52	1007.31	96+95.94	1007.65	97+00.36	1007.75
0.1L POINT	96+96.02	1007.53	97+00.44	1007.87	97+04.86	1007.97
0.2L POINT	97+00.52	1007.76	97+04.94	1008.10	97+09.36	1008.20
0.3L POINT	97+05.02	1007.98	97+09.44	1008.32	97+13.86	1008.42
0.4L POINT	97+09.52	1008.21	97+13.94	1008.55	97+18.36	1008.65
0.5L POINT	97+14.02	1008.43	97+18.44	1008.77	97+22.86	1008.87
0.6L POINT	97+18.52	1008.66	97+22.94	1009.00	97+27.36	1009.10
0.7L POINT	97+23.02	1008.88	97+27.44	1009.22	97+31.86	1009.32
0.8L POINT	97+27.52	1009.11	97+31.94	1009.45	97+36.36	1009.55
0.9L POINT	97+32.02	1009.33	97+36.44	1009.67	97+40.86	1009.77
C/L PIER 1	97+36.52	1009.56	97+40.94	1009.90	97+45.36	1010.00
0.1L POINT	97+42.02	1009.83	97+46.44	1010.17	97+50.86	1010.27
0.2L POINT	97+47.52	1010.11	97+51.94	1010.45	97+56.36	1010.55
0.3L POINT	97+53.02	1010.38	97+57.44	1010.72	97+61.86	1010.82
0.4L POINT	97+58.52	1010.66	97+62.94	1011.00	97+67.36	1011.10
0.5L POINT	97+64.02	1010.93	97+68.44	1011.27	97+72.86	1011.37
0.6L POINT	97+69.52	1011.21	97+73.94	1011.55	97+78.36	1011.65
0.7L POINT	97+75.02	1011.48	97+79.44	1011.82	97+83.86	1011.92
0.8L POINT	97+80.52	1011.76	97+84.94	1012.10	97+89.36	1012.20
0.9L POINT	97+86.02	1012.03	97+90.44	1012.37	97+94.86	1012.47
C/L PIER 2	97+91.52	1012.31	97+95.94	1012.65	98+00.36	1012.75
0.1L POINT	97+97.02	1012.58	98+01.44	1012.92	98+05.86	1013.02
0.2L POINT	98+02.52	1012.86	98+06.94	1013.20	98+11.36	1013.30
0.3L POINT	98+08.02	1013.13	98+12.44	1013.47	98+16.86	1013.57
0.4L POINT	98+13.52	1013.41	98+17.94	1013.75	98+22.36	1013.85
0.5L POINT	98+19.02	1013.68	98+23.44	1014.02	98+27.86	1014.12
0.6L POINT	98+24.52	1013.96	98+28.94	1014.30	98+33.36	1014.40
0.7L POINT	98+30.02	1014.23	98+34.44	1014.57	98+38.86	1014.67
0.8L POINT	98+35.52	1014.51	98+39.94	1014.85	98+44.36	1014.95
0.9L POINT	98+41.02	1014.78	98+45.44	1015.12	98+49.86	1015.22
C/L PIER 3	98+46.52	1015.06	98+50.94	1015.40	98+55.36	1015.50
0.1L POINT	98+51.05	1015.28	98+55.45	1015.62	98+59.84	1015.72
0.2L POINT	98+55.58	1015.51	98+59.95	1015.85	98+64.33	1015.95
0.3L POINT	98+60.10	1015.74	98+64.46	1016.07	98+68.81	1016.17
0.4L POINT	98+64.63	1015.96	98+68.96	1016.30	98+73.30	1016.39
0.5L POINT	98+69.16	1016.19	98+73.47	1016.52	98+77.78	1016.62
0.6L POINT	98+73.69	1016.41	98+77.98	1016.75	98+82.26	1016.84
0.7L POINT	98+78.22	1016.64	98+82.48	1016.97	98+86.75	1017.07
0.8L POINT	98+82.74	1016.87	98+86.99	1017.20	98+91.23	1017.29
0.9L POINT	98+87.27	1017.09	98+91.49	1017.42	98+95.72	1017.51
C/L PIER 4	98+91.80	1017.32	98+96.00	1017.64	99+00.20	1017.72

ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.

TOP OF DECK ELEVATIONS: SPANS 5-6

LOCATION	WEST GUTTER LINE 6.00' LT		C/L BRIDGE -		EAST GUTTER LINE 6.00' RT	
	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.
C/L PIER 4	98+91.80	1017.32	98+96.00	1017.64	99+00.20	1017.72
0.1L POINT	99+02.20	1017.81	99+06.40	1018.11	99+10.60	1018.16
0.2L POINT	99+12.60	1018.24	99+16.80	1018.53	99+21.00	1018.56
0.3L POINT	99+23.00	1018.63	99+27.20	1018.90	99+31.40	1018.91
0.4L POINT	99+33.40	1018.97	99+37.60	1019.22	99+41.80	1019.21
0.5L POINT	99+43.80	1019.26	99+48.00	1019.49	99+52.20	1019.46
0.6L POINT	99+54.20	1019.50	99+58.40	1019.71	99+62.60	1019.66
0.7L POINT	99+64.60	1019.70	99+68.80	1019.88	99+73.00	1019.81
0.8L POINT	99+75.00	1019.84	99+79.20	1020.00	99+83.40	1019.92
0.9L POINT	99+85.40	1019.93	99+89.60	1020.08	99+93.80	1019.97
C/L PIER 5	99+95.80	1019.98	100+00.00	1020.10	100+04.20	1019.98
0.1L POINT	100+06.20	1019.97	100+10.40	1020.08	100+14.60	1019.93
0.2L POINT	100+16.60	1019.92	100+20.80	1020.00	100+25.00	1019.84
0.3L POINT	100+27.00	1019.81	100+31.20	1019.88	100+35.40	1019.70
0.4L POINT	100+37.40	1019.66	100+41.60	1019.71	100+45.80	1019.50
0.5L POINT	100+47.80	1019.46	100+52.00	1019.49	100+56.20	1019.26
0.6L POINT	100+58.20	1019.21	100+62.40	1019.22	100+66.60	1018.97
0.7L POINT	100+68.60	1018.91	100+72.80	1018.90	100+77.00	1018.63
0.8L POINT	100+79.00	1018.56	100+83.20	1018.53	100+87.40	1018.24
0.9L POINT	100+89.40	1018.16	100+93.60	1018.11	100+97.80	1017.81
CL PIER 6	100+99.80	1017.72	101+04.00	1017.64	101+08.20	1017.32

ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.

TOP OF DECK ELEVATIONS: SPAN 7

LOCATION	WEST GUTTER LINE 6.00' LT		C/L BRIDGE -		EAST GUTTER LINE 6.00' RT	
	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.
C/L PIER 6	100+99.80	1017.72	101+04.00	1017.64	101+08.20	1017.44
0.1L POINT	101+03.73	1017.53	101+07.93	1017.45	101+12.13	1017.24
0.2L POINT	101+07.66	1017.35	101+11.87	1017.26	101+16.07	1017.05
0.3L POINT	101+11.60	1017.15	101+15.80	1017.06	101+20.00	1016.85
0.4L POINT	101+15.53	1016.95	101+19.73	1016.86	101+23.93	1016.65
0.5L POINT	101+19.46	1016.76	101+23.67	1016.67	101+27.87	1016.46
0.6L POINT	101+23.40	1016.56	101+27.60	1016.47	101+31.80	1016.26
0.7L POINT	101+27.33	1016.36	101+31.53	1016.27	101+35.73	1016.06
0.8L POINT	101+31.26	1016.17	101+35.46	1016.08	101+39.67	1015.87
0.9L POINT	101+35.20	1015.97	101+39.40	1015.88	101+43.60	1015.67
C/L NORTH ABUT	101+39.13	1015.77	101+43.33	1015.68	101+47.53	1015.47

ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

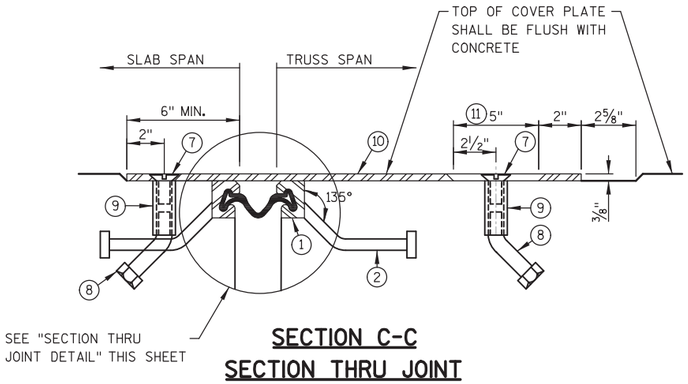
DRAWN BY BSB | PLANS CK'D. BMO

SUPERSTRUCTURE ELEVATIONS

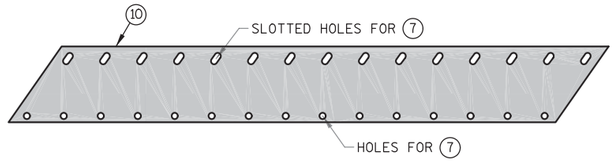
SHEET 32 OF 39
1025

STATE PROJECT NUMBER

1206-07-83



SECTION C-C
SECTION THRU JOINT



PLAN OF COVER PLATE WITH SLIP RESISTANT SURFACE

PLACE SLIP-RESISTANT SURFACE ON TOP WALKING SURFACE IN SHADED AREA.

APPROVED SLIP-RESISTANT APPLIED SURFACES FOR STEEL PLATES		
PRODUCT	MANUFACTURER	CONTACT AT
SLIPNOT GRADE 2, STEEL	W. S. MOLNAR COMPANY	1-800-SLIPNOT
ALGRIP, STEEL	ROSS TECHNOLOGY CORP.	1-800-345-8170

LEGEND

1. NEOPRENE STRIP SEAL (4 - INCH) & STEEL EXTRUSIONS.
2. STUDS ⅝"ϕ X 6⅜" LONG AT 6" CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
7. ¾"ϕ X 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS 1/16" BELOW PLATE SURFACE.
8. ¾"ϕ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
9. ¾"ϕ X 2¼" GALVANIZED THREADED COUPLING.
10. GALVANIZED PLATE ⅜" x 2'-0" X LIMITS SHOWN, WITH HOLES FOR #7.
11. 1" x 5" SLOTTED COUNTERSUNK HOLE FOR #7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.

BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING

GENERAL NOTES

NO FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS.
NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING THE PLATES & EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

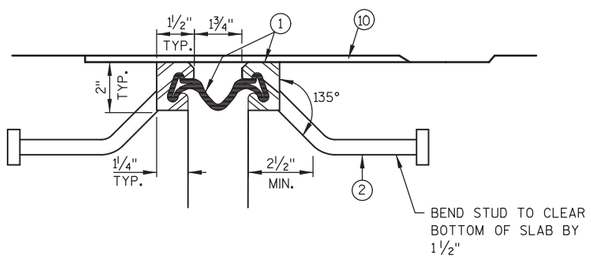
ANCHOR SYSTEM #8 & #9 SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C & D.

THE EXPANSION DEVICE MANUFACTURER SHALL PROVIDE A MECHANISM TO SUPPORT THE JOINT IN PLACE DURING THE CONCRETE POUR.

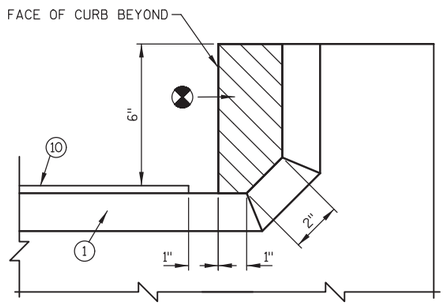
STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE (B-13-666)".

COVER PLATE SHALL BE FABRICATED FROM TWO PLATES, JOINTED ALONG THE REFERENCE LINE, AND SHOP WELDED PRIOR TO GALVANIZING.

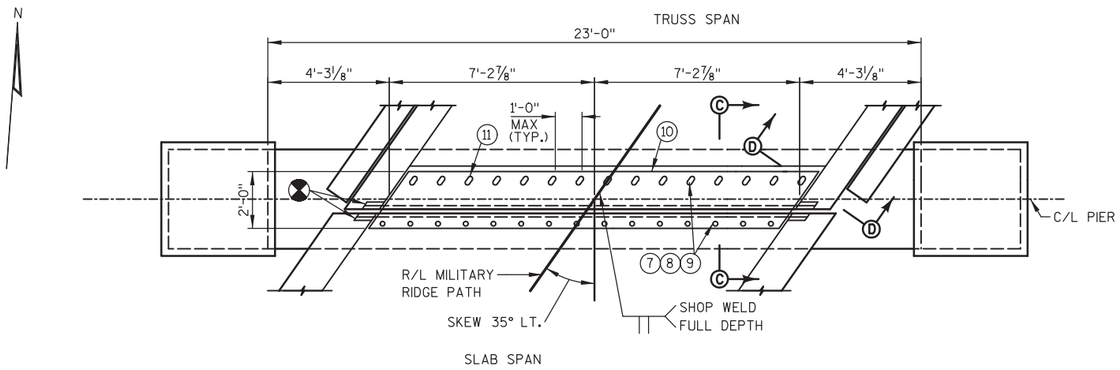
PLACE SLIP RESISTANT SURFACE ON TOP WALKING SURFACE. SEE DETAIL THIS SHEET.



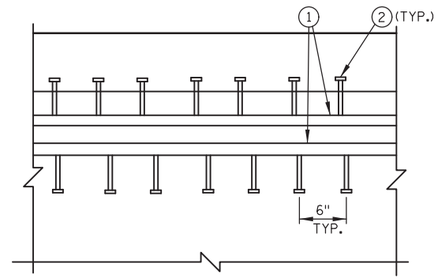
SECTION THRU JOINT DETAIL



SECTION D-D
SECTION THRU JOINT AT CURB



PIER 4 PLAN
(PIER 6 SIMILAR)



PART PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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EXPANSION DEVICE AT PIERS 4 & 6

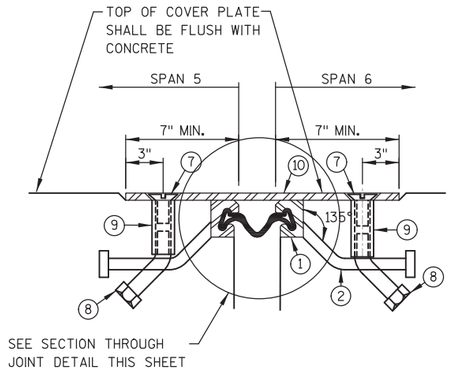
SHEET 33 OF 39
1026

8

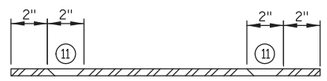
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STATE PROJECT NUMBER

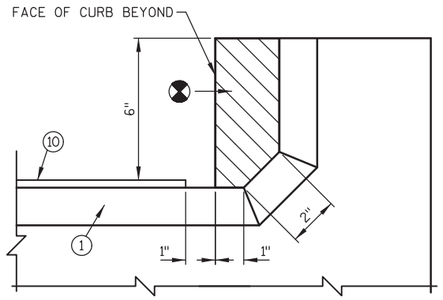
1206-07-83



SECTION C-C
SECTION THRU JOINT



SLOTTED HOLE DETAIL



SECTION D-D
SECTION THRU JOINT AT CURB

LEGEND

1. NEOPRENE STRIP SEAL (4 - INCH) & STEEL EXTRUSIONS.
2. STUDS $\frac{5}{8}$"Φ X $6\frac{3}{8}$" LONG AT 6" CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
7. $\frac{3}{4}$"Φ X $1\frac{1}{2}$" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS $\frac{1}{16}$" BELOW PLATE SURFACE.
8. $\frac{3}{4}$"Φ X 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
9. $\frac{3}{4}$"Φ X $2\frac{1}{4}$" GALVANIZED THREADED COUPLING.
10. GALVANIZED PLATE $\frac{3}{8}$" X 1'-4" X LIMITS SHOWN, WITH HOLES FOR #7.
11. 1" X 2" SLOTTED COUNTERSUNK FOR #7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.

⊠ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING

GENERAL NOTES

NO FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS.
NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING THE PLATES & EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

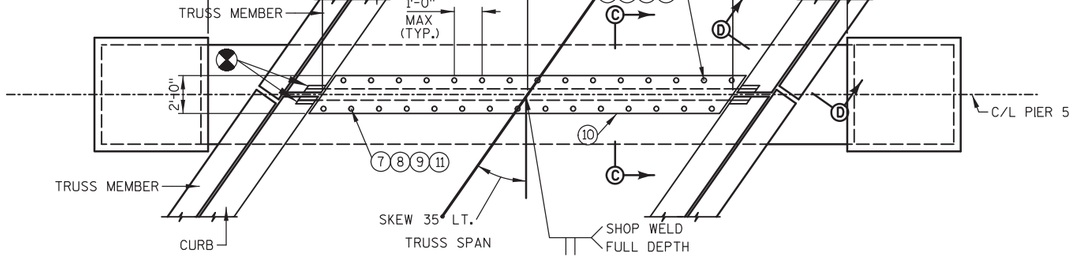
ANCHOR SYSTEM #8 & #9 SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C & D.

THE EXPANSION DEVICE MANUFACTURER SHALL PROVIDE A MECHANISM TO SUPPORT THE JOINT IN PLACE DURING THE CONCRETE POUR.

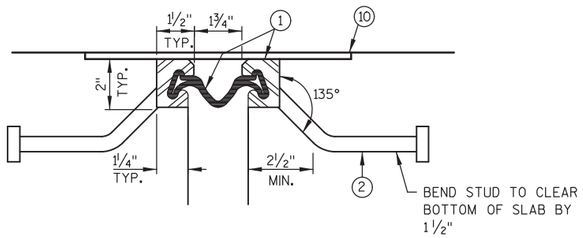
STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE (B-13-666)".

COVER PLATE SHALL BE FABRICATED FROM TWO PLATES, JOINTED ALONG THE REFERENCE LINE, AND SHOP WELDED PRIOR TO GALVANIZING.

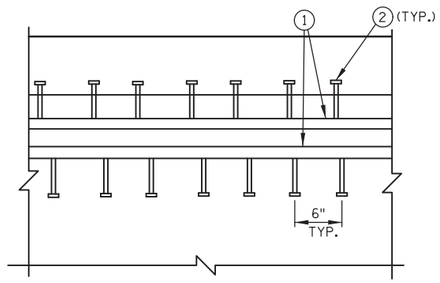
PLACE SLIP RESISTANT SURFACE ON TOP WALKING SURFACE. SEE DETAIL SHEET 33.



PIER 5 PLAN



SECTION THRU JOINT DETAIL



PART PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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EXPANSION DEVICE AT PIER 5

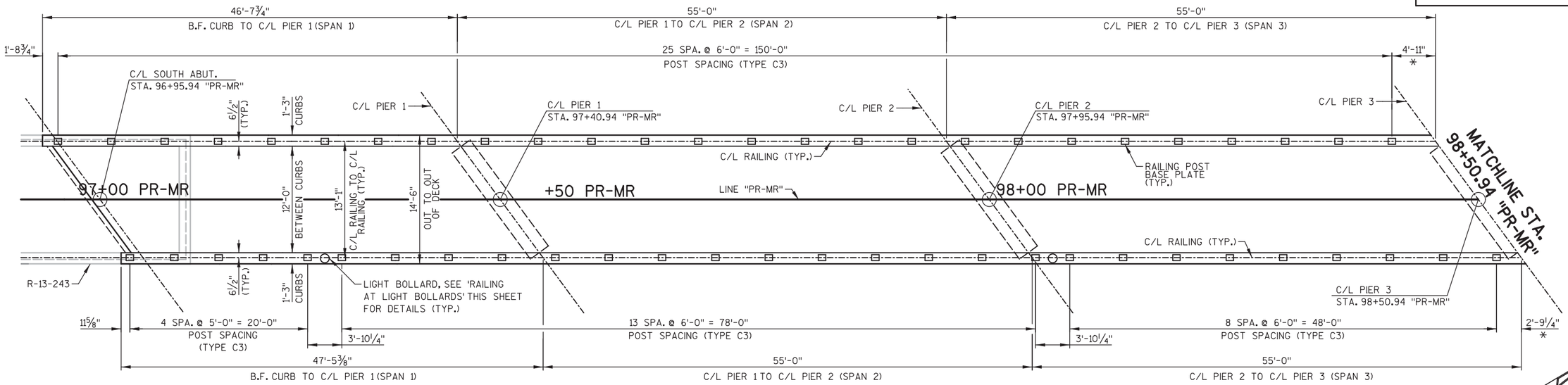
SHEET 34 OF 39
1027

8

8

STATE PROJECT NUMBER

1206-07-83



NOTES

RAILINGS FOR SPANS 1, 2, 3 AND 4 SHALL BE PARALLEL TO REFERENCE LINE "PR-MR".

ALL DIMENSIONS TAKEN ABOUT CENTERLINE OF RAILING POSTS.

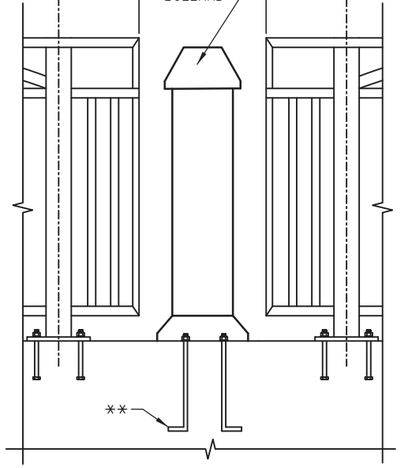
SEE RAILING END DETAILS ON THIS SHEET.

RAILING SYSTEM FOR SPANS 1, 2, 3, 4 AND 7 SHALL BE RAILING STEEL TYPE C3 GALVANIZED PEDESTRIAN, B-13-666. SEE DETAILS SHEET 37.

RAILING SYSTEM FOR SPANS 5 AND 6 SHALL BE RAILING STEEL SPECIAL GALVANIZED PEDESTRIAN, B-13-666. SEE DETAILS SHEET 38.

RAILING LAYOUT PLAN

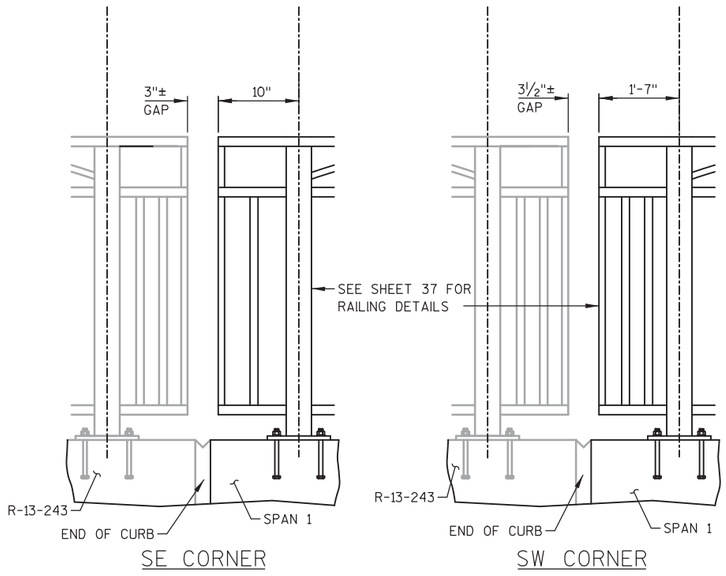
* DIMENSION IS FROM POST TO MATCHLINE. POST SPACING IS 6'-0" ACROSS MATCHLINE.



** ¾" ANCHOR BOLTS INCLUDED WITH LIGHT BOLLARD ITEM. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

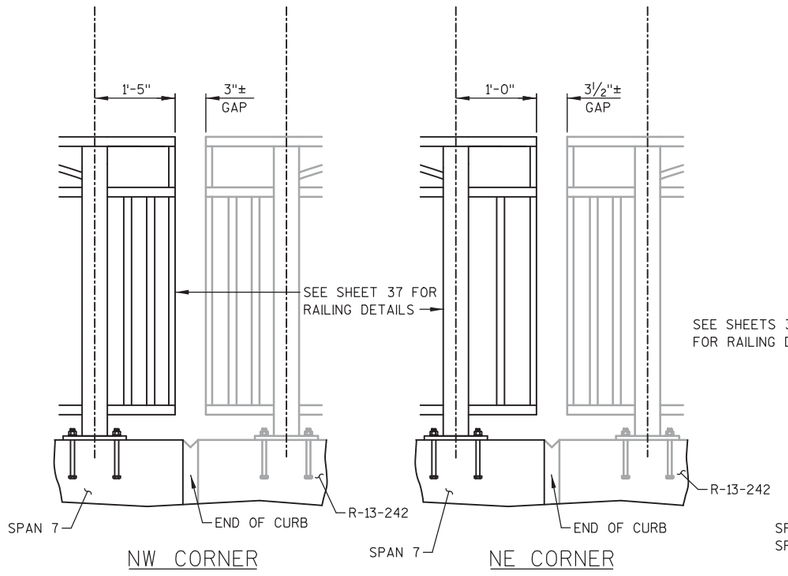
RAILING AT LIGHT BOLLARDS

(LOOKING NORMAL TO RAILING)



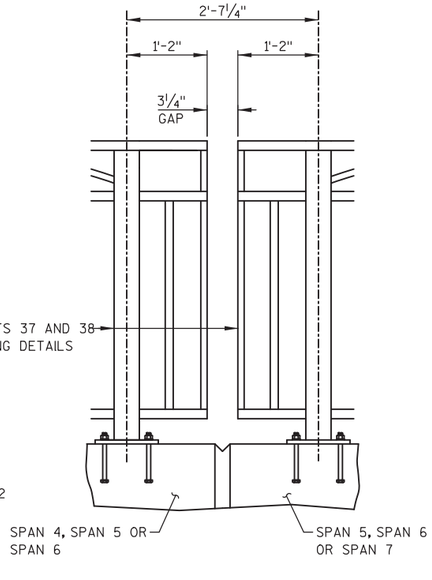
END OF RAILING AT SOUTH ABUT.

(LOOKING NORMAL TO RAILING)



END OF RAILING AT NORTH ABUT.

(LOOKING NORMAL TO RAILING)



END OF RAILING AT PIERS 4, 5 & 6

(LOOKING NORMAL TO RAILING)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

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RAILING STEEL LAYOUT

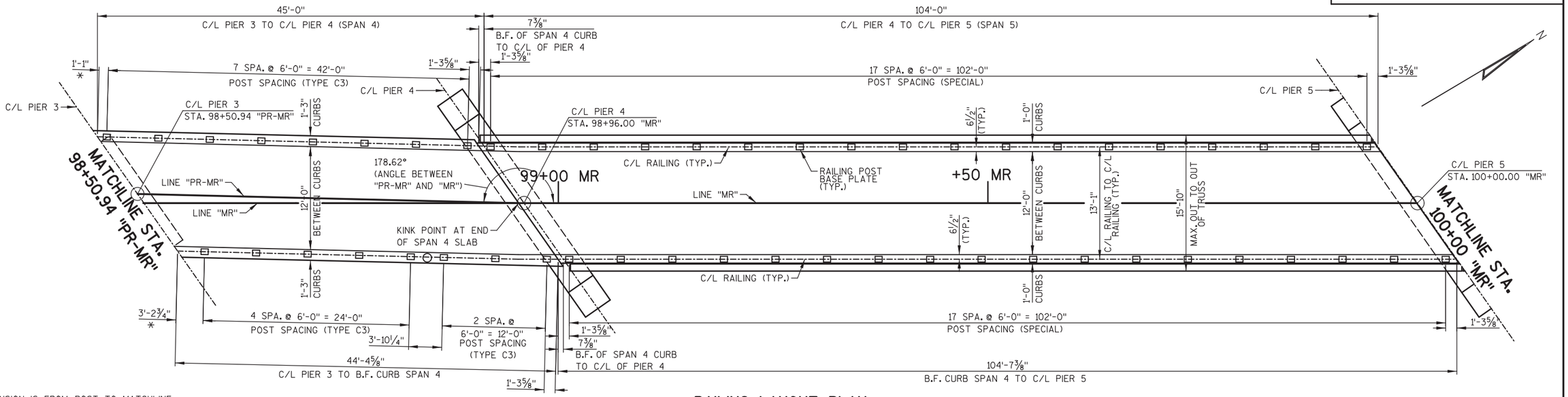
SHEET 35 OF 39
1028

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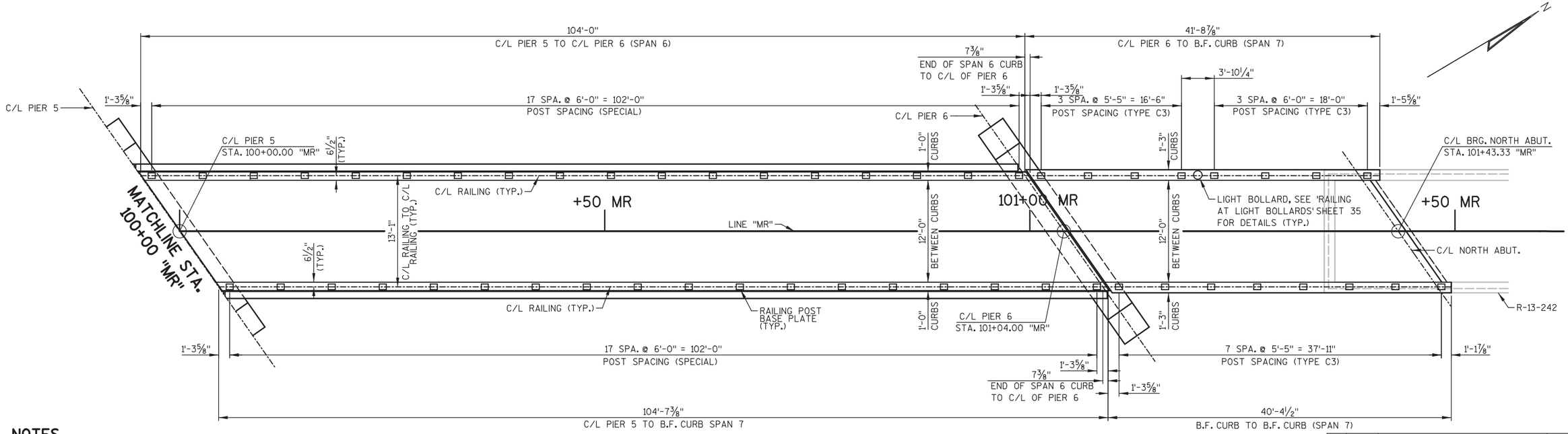
STATE PROJECT NUMBER

1206-07-83



* DIMENSION IS FROM POST TO MATCHLINE.
POST SPACING IS 6'-0" ACROSS MATCHLINE.

RAILING LAYOUT PLAN



RAILING LAYOUT PLAN

NOTES

RAILINGS FOR SPANS 1, 2, 3, AND 4 SHALL BE PARALLEL TO REFERENCE LINE "PR-MR".

ALL DIMENSIONS TAKEN ABOUT CENTERLINE OF RAILING POSTS.

SEE RAILING END DETAILS ON SHEET 35.

RAILING SYSTEM FOR SPANS 1, 2, 3, 4 AND 7 SHALL BE RAILING STEEL TYPE C3 GALVANIZED PEDESTRIAN, B-13-666. SEE DETAILS SHEET 37.

RAILING SYSTEM FOR SPANS 5 AND 6 SHALL BE RAILING STEEL SPECIAL GALVANIZED PEDESTRIAN, B-13-666. SEE DETAILS SHEET 38.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY BSB | PLANS CK'D. BMO

RAILING STEEL LAYOUT

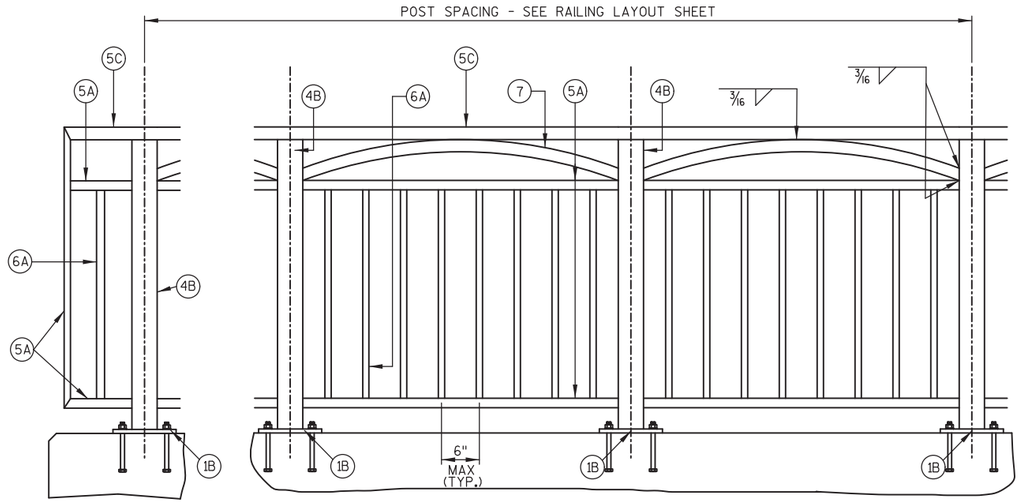
SHEET 36 OF 39
1029

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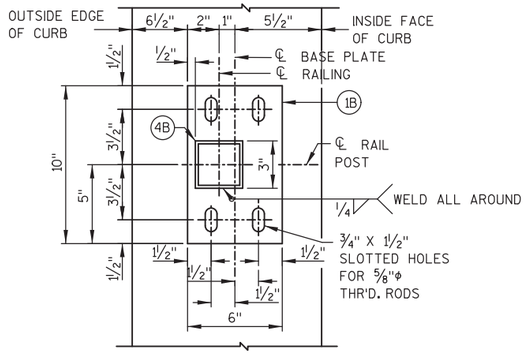
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STATE PROJECT NUMBER

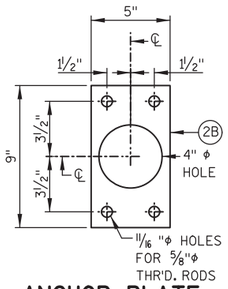
1206-07-83



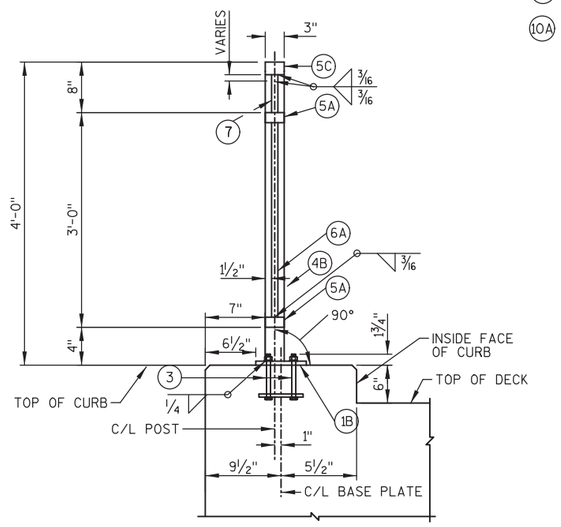
ELEVATION TYPE C3 MODIFIED



TYPICAL RAIL POST BASE PLATE



ANCHOR PLATE



SECTION THRU RAILING

LEGEND

- (1B) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES
- (2B) ¼" X 5" X 9" ANCHOR PLATE WITH 11/16 " ϕ HOLES FOR THR'D. RODS NO. 3.
- (3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), ⅝" ϕ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS.
- (4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.
- (5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS.
- (5C) STRUCTURAL TUBING 3" X 2" X 3/16" TOP RAIL. WELD TO NO. 1 AND NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- (7) BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.
- (9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".
- (10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C3 GALVANIZED PEDESTRIAN B-13-666", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 6, 7, 9 AND 10 SHALL CONFORM TO ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (NO. 4, AND NO. 5).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

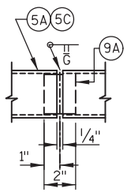
CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE SPECIAL PROVISIONS. THE RAILING SHALL BE PAINTED PANTONE MATCHING SYSTEM COLOR PMS 364 (GREEN).

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

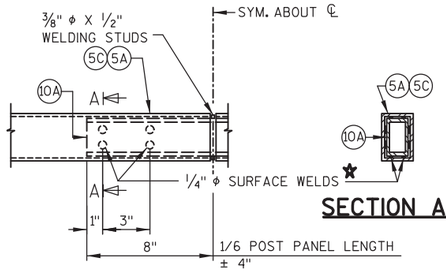
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



SHOP RAIL SPLICE DETAIL

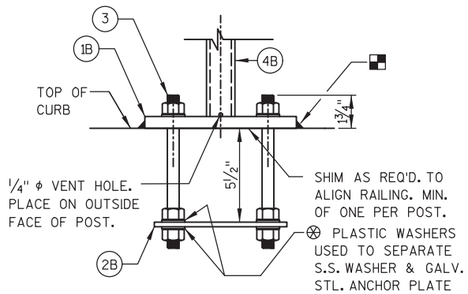
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION A-A

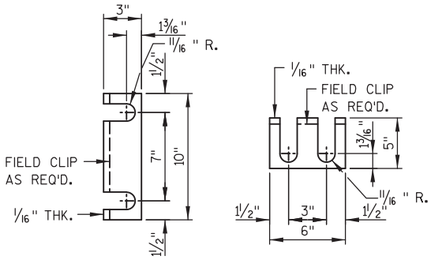
FIELD ERECTION JOINT DETAIL

★ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



RAIL POST SHIM DETAIL

(2 SETS PER POST)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY: BSB | PLANS CK'D.: BMO

RAILING STEEL TYPE C3 MODIFIED DETAILS

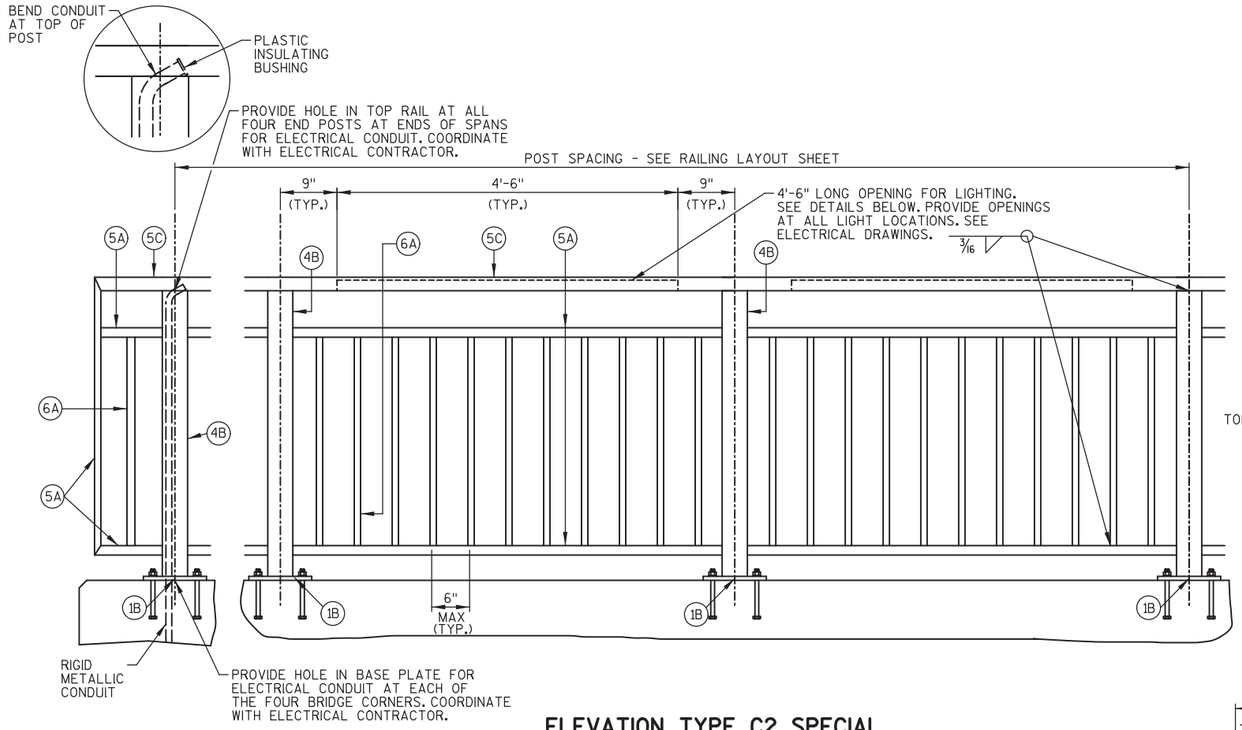
SHEET 37 OF 39
1030

8

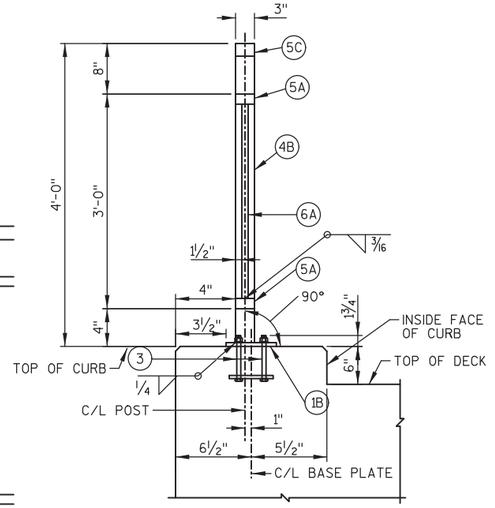
8

STATE PROJECT NUMBER

1206-07-83



ELEVATION TYPE C2 SPECIAL



SECTION THRU RAILING

LEGEND

(1B) PLATE 5/8" X 6" X 10" WITH 3/4" X 1½" SLOTTED HOLES

(2B) 1/4" X 5" X 9" ANCHOR PLATE WITH 11/16 " ϕ HOLES FOR THR'D. RODS NO. 3.

(3) 5/8" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), 5/8" ϕ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS.

(4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS.

(5C) STRUCTURAL TUBING 3" X 2" X 3/16" TOP RAIL. WELD TO NO.1 &NO.4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS AND AT RECESSED LIGHTING LOCATIONS. PROVIDE MODIFICATIONS FOR RECESSED LIGHTING. SEE DETAILS THIS SHEET.

(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.

(7) BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.

(9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATE. (1'-4" @ FIELD ERECTION JOINTS)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL SPECIAL GALVANIZED PEDESTRIAN B-13-666", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 6, 7, 9, AND NO. 10 SHALL CONFORM TO ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (NO. 4, AND NO. 5).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

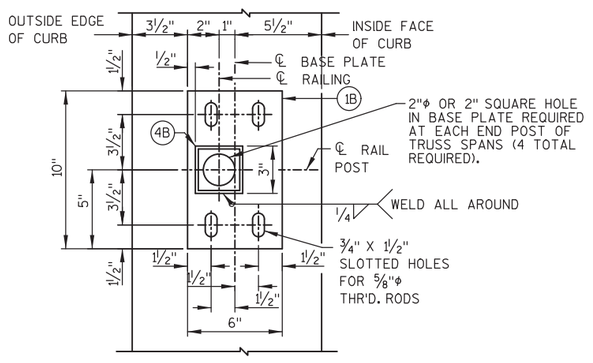
ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE SPECIAL PROVISIONS. THE RAILING SHALL BE PAINTED PANTONE MATCHING SYSTEM COLOR PMS 364 (GREEN).

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

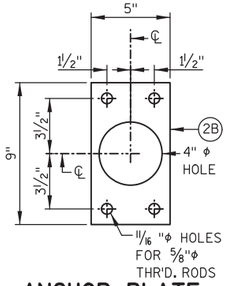
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

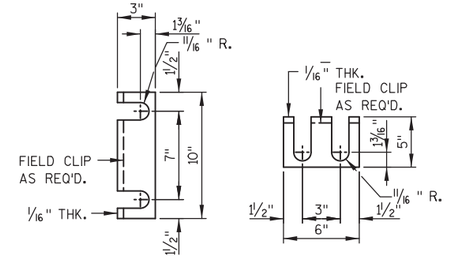
COORDINATE RECESSED LIGHTING REQUIREMENTS WITH ELECTRICAL CONTRACTOR.



TYPICAL RAIL POST BASE PLATE

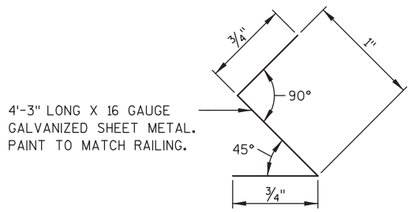


ANCHOR PLATE

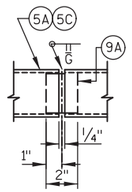


RAIL POST SHIM DETAIL

(2 SETS PER POST)

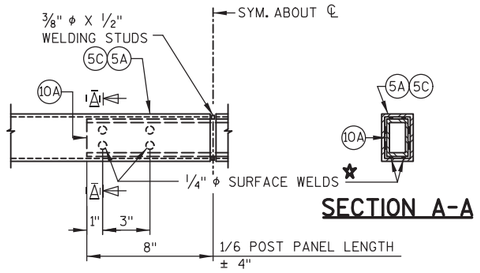


SHEET METAL DETAIL



SHOP RAIL SPLICE DETAIL

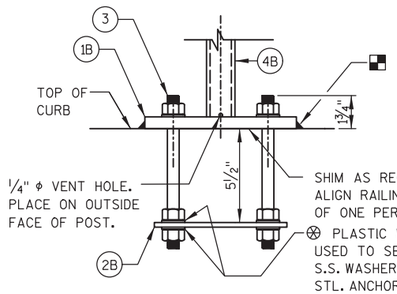
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



FIELD ERECTION JOINT DETAIL

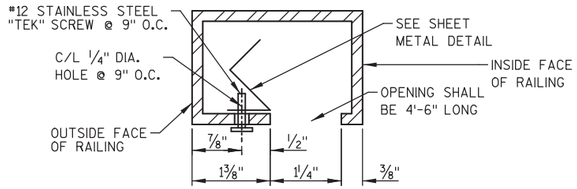
SECTION A-A

★ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



SECTION THRU TOP HORIZONTAL TUBE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY BSB | PLANS CK'D. BMO

RAILING STEEL SPECIAL DETAILS

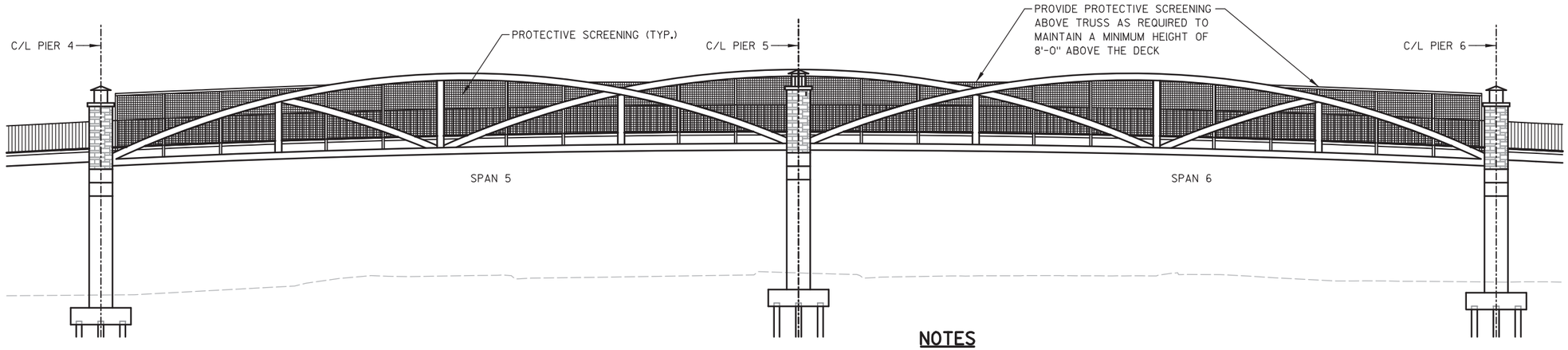
SHEET 38 OF 39

1031

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8

STATE PROJECT NUMBER
1206-07-83



ELEVATION

(TYPICAL EACH SIDE)

NOTES

PROTECTIVE SCREENING SHALL BE PROVIDED BY THE PREFABRICATED BRIDGE MANUFACTURER. ALL WORK ASSOCIATED WITH PROTECTIVE SCREENING SHALL BE INCIDENTAL TO BID ITEM "PREFABRICATED STEEL TRUSS PEDESTRIAN BRIDGE."

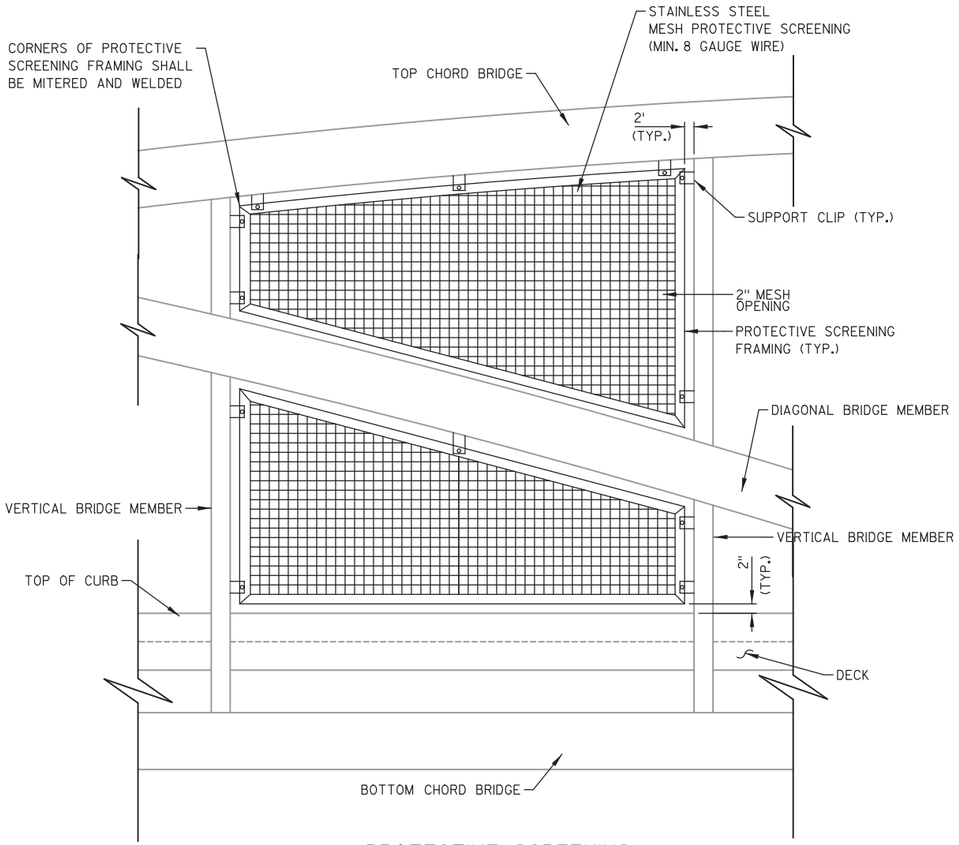
STAINLESS STEEL MESH SHALL BE ORIENTED VERTICALLY/HORIZONTALLY ACROSS THE FULL LENGTH OF THE BRIDGE.

ALL MATERIALS FOR THE PROTECTIVE SCREENING, INCLUDING HARDWARE, SHALL BE STAINLESS STEEL.

ALTERNATE DETAILS FOR THE PROTECTIVE SCREENING MAY BE PROPOSED BY THE PREFABRICATED BRIDGE MANUFACTURER, BUT MUST BE APPROVED BY THE ENGINEER.

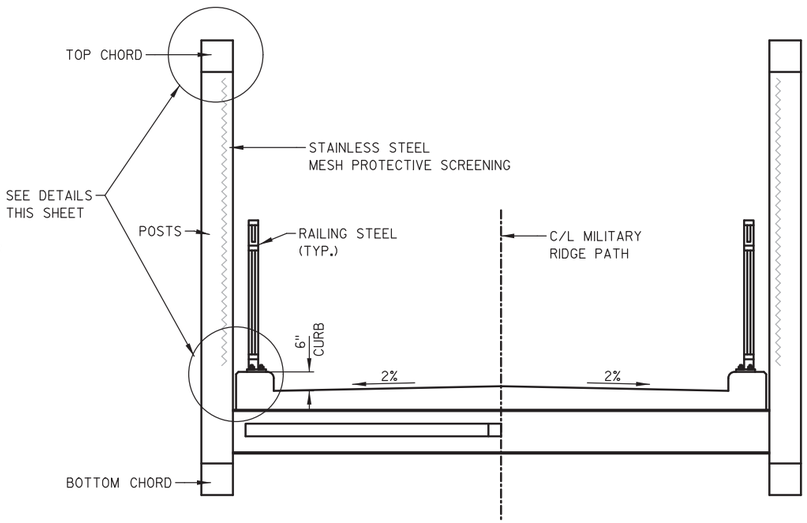
PROTECTIVE SCREENING SHALL BE PROVIDED ON BOTH SIDES OF THE STEEL TRUSS PEDESTRIAN BRIDGE FROM THE TOP OF THE CURB TO THE TOP OF THE BRIDGE AS SHOWN FOR THE FULL LENGTH OF THE TRUSS BRIDGE.

PROVIDE PROTECTIVE SCREENING ABOVE THE TOP CHORD AS REQUIRED IN ORDER TO MAINTAIN A MINIMUM VERTICAL DIMENSION OF 8'-0" FROM THE TOP OF DECK TO TOP OF TRUSS OR TOP OF SCREENING. PROVIDE ADDITIONAL FRAMING ABOVE THE TRUSS AS REQUIRED TO SUPPORT THE PROTECTIVE SCREENING.

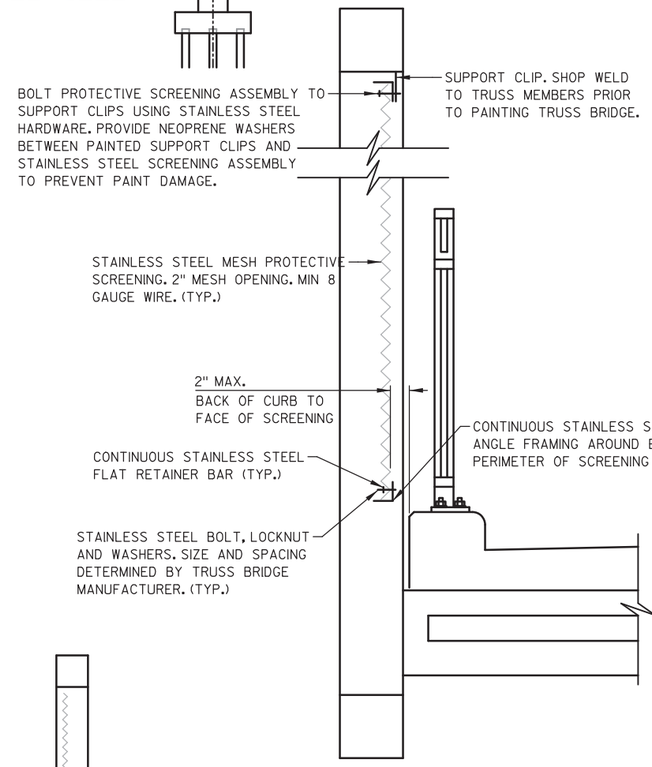


PROTECTIVE SCREENING

(INSIDE ELEVATION)



CROSS SECTION THRU TRUSS BRIDGE



PROTECTIVE SCREENING DETAIL

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-666

DRAWN BY	BSB	PLANS CK'D.	BMO

PROTECTIVE SCREENING DETAILS

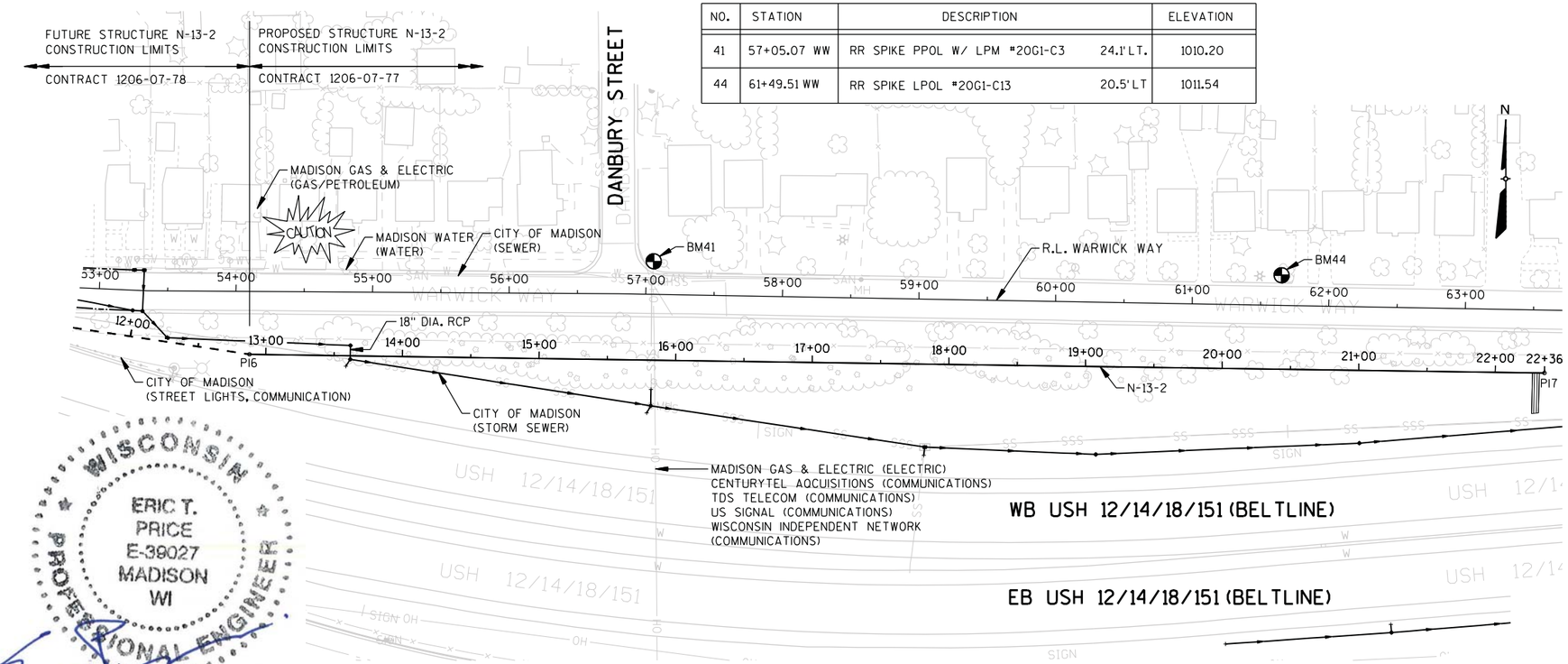
SHEET 39 OF 39

1032

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PLOT DATE: 1/31/2013 PLOT TIME: 11:02:49 AM
BATCH PRINT SHEET 1 OF 5

BENCH MARK TABLE

NO.	STATION	DESCRIPTION		ELEVATION
41	57+05.07 WW	RR SPIKE PPOL W/ LPM "20G1-C3	24.1' LT.	1010.20
44	61+49.51 WW	RR SPIKE LPOL "20G1-C13	20.5' LT	1011.54



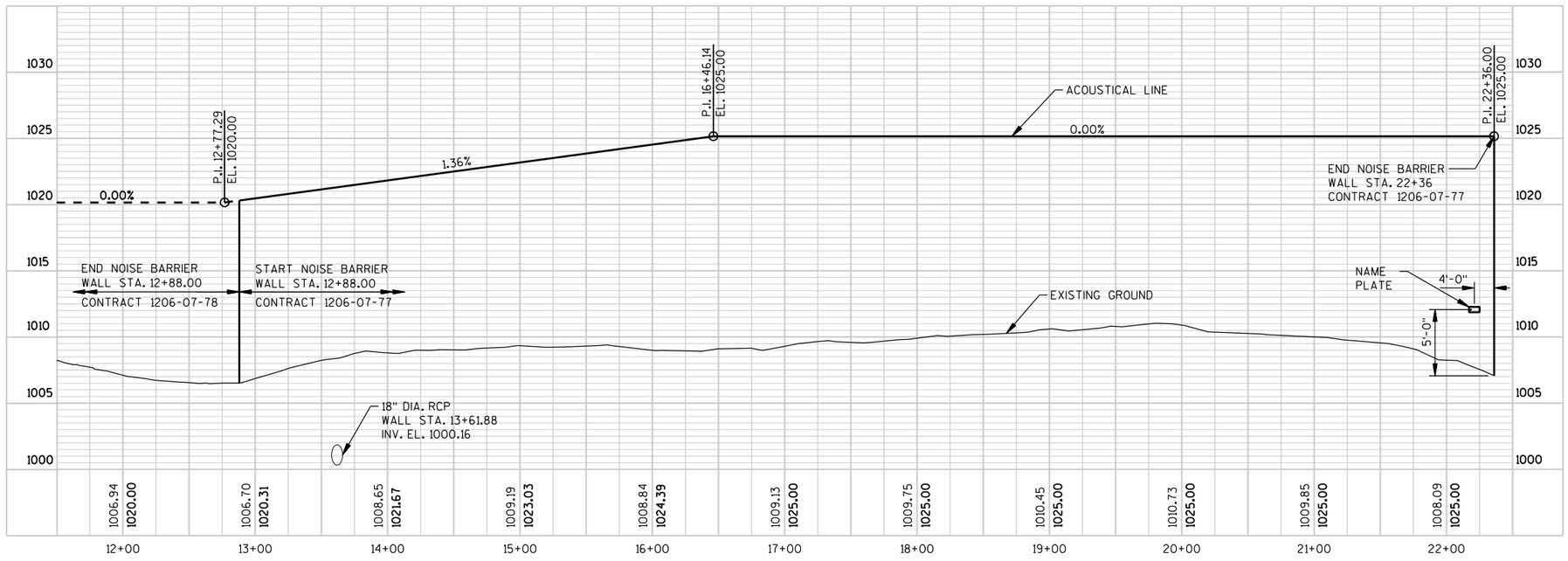
WISCONSIN
ERIC T. PRICE
E-39027
MADISON
WI
PROFESSIONAL ENGINEER

January 31, 2013

PLAN

NOISE BARRIER N-13-2

PI NO	NORTHING	EASTING	WALL STA.
PI6	468421.54	804178.36	12+88.00
PI7	468407.90	805126.26	22+36.00



ELEVATION

WALL STA. 1+00 - WALL STA. 12+88 CONSTRUCTED UNDER
FUTURE CONTRACT 1206-07-78

STATE PROJECT NUMBER

1206-07-77

GENERAL NOTES

CONSTRUCTION OF NOISE BARRIER TO BE SPLIT BETWEEN TWO SEPARATE CONTRACTS. WALL STA. 12+88 TO WALL STA. 22+36 TO BE CONSTRUCTED UNDER THIS CONTRACT, 1206-07-77. WALL STA. 1+00 TO WALL STA. 12+88 TO BE CONSTRUCTED IN THE FUTURE UNDER 1206-07-78 CONTRACT.

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS, ELEVATIONS, AND OFFSETS ARE IN FEET UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE NOISE BARRIER IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE NOISE BARRIER MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE STRUCTURE N-13-2".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE BARRIER LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE BARRIER SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

ALL NOISE BARRIER SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT "GUIDE SPECIFICATIONS FOR STRUCTURAL DESIGN OF SOUND BARRIERS", PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).

THE FOLLOWING DESIGN PRESSURES SHALL BE USED IN ACCORDANCE WITH THE SPECIAL PROVISIONS:
28.5 PSF FOR GROUND MOUNTED BARRIERS

THE NOISE BARRIER IS TO BE DESIGNED USING THE GROUND LINE AND ACOUSTIC LINE SHOWN ON THIS SHEET.

INCLUDE THE COST OF SURFACE TREATMENT, STAINING, REVEALS, COATING OF STEEL POSTS AND CONNECTIONS, AND COLORING/STAINING THE PANELS UNDER THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE STRUCTURE N-13-2".

PLACE HYDRANT ACCESS HOLE SIGNS PER SIGNING PLAN SHEETS.

A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS STRUCTURE AND IS AVAILABLE UPON REQUEST FROM WISDOT'S SW REGION OFFICE.

LIST OF DRAWINGS

1. GENERAL PLAN
2. BARRIER DETAILS
3. ELEVATION AND AESTHETIC DETAILS
4. SUBSURFACE EXPLORATION-1
5. SUBSURFACE EXPLORATION-2

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
BILL DREHER (608) 266-8489

CONSULTANT:
ERIC PRICE (608) 828-8181

SW REGION CONTACT:
MARK VESPERMAN (608) 246-7548

NO.	DATE	REVISION	BY

AECOM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 03/08/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE N-13-2

NOISE BARRIER ALONG WB BELTLINE & VERONA RD. OFF RAMP

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
DANE	MADISON

DESIGN SPEC.
AASHTO LRFD BRIDGE SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MAH	ETP	MAH	ETP

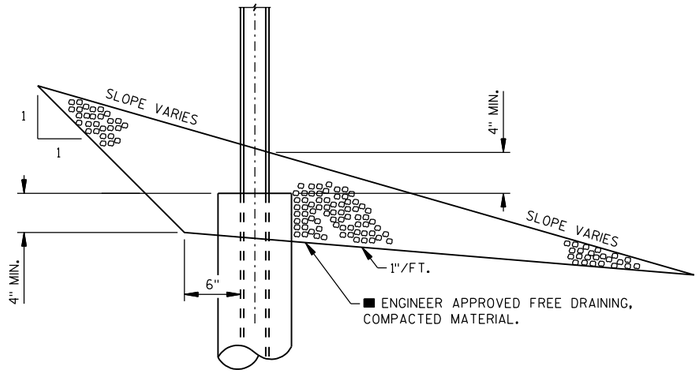
GENERAL PLAN

SHEET 1 OF 5
1033

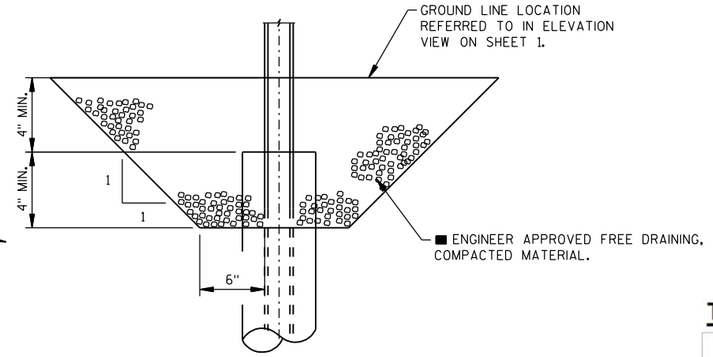
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BATCH PRINT SHEET 2 OF 5



✳ SLOPED GRADE BACKFILL & DRAINAGE DETAIL
(NOT TO SCALE)

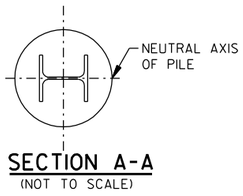


✳ LEVEL GRADE BACKFILL & DRAINAGE DETAIL
(NOT TO SCALE)

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
(1)	531.0300.S.01	NOISE BARRIER, DOUBLE SIDED SOUND ABSORPTIVE STRUCTURE, N-13-2	SF	14,050

ALL ITEMS ARE CATEGORY 0090



SECTION A-A
(NOT TO SCALE)

SECTION THRU GROUND MOUNTED VERTICAL SUPPORT POST & AUGER CAST PILE

TYPICAL AT EACH POST LOCATION
(NOT TO SCALE)
("D", "L", AND "X" TO BE DETERMINED BY SUPPLIER)

W = DESIGN WIND LOAD (SEE SHEET 1)
L = NOISE BARRIER FOUNDATION DEPTH BELOW EXISTING GROUND
D = NOISE BARRIER FOUNDATION DIAMETER
S = FACTORED SOIL PRESSURE

GROUND MOUNTED NOISE BARRIER LOADING
(NOT TO SCALE)

NOTES

DETAILS SHOWN ARE GENERAL GUIDELINES FOR A VARIETY OF APPLICATIONS THAT MAY NOT ALL BE UTILIZED FOR THE SUBJECT WALL. SPECIFIC DETAILS SHALL BE PROVIDED BY NOISE BARRIER FABRICATOR AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

LEGEND

✳ ALL ITEMS SHOWN ARE INCLUDED WITH THE BID ITEM "NOISE BARRIER DOUBLE-SIDED ABSORPTIVE STRUCTURE N-13-2".

■ AT A MINIMUM, MATERIAL AND COMPACTION SHALL MEET THE REQUIREMENTS OF SECTION 312 OF THE STANDARD SPECIFICATIONS.

(1) PAY LIMIT MEASURED FROM ACOUSTICAL LINE TO GROUND LINE AT FRONT FACE OF BARRIER. GROUND LINE IN ELEVATION VIEW IS AT FRONT FACE OF BARRIER. BARRIER MAY BE LOCATED IN SLOPE SECTION AND EMBEDMENT SHALL BE AS SHOWN ON THIS SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE N-13-2

DRAWN BY MAH | PLANS CK'D. ETP

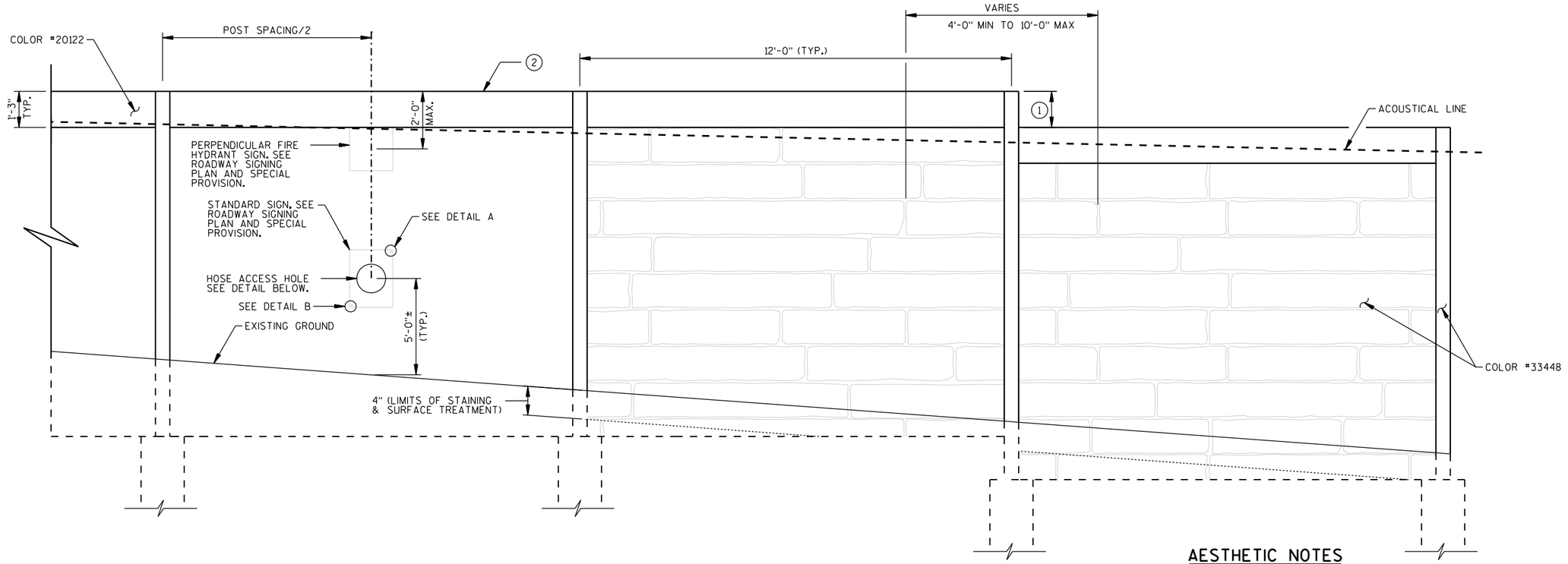
BARRIER DETAILS

SHEET 2 OF 5
1034

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BATCH PRINT SHEET 3 OF 5



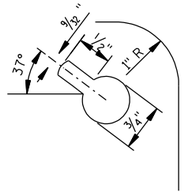
TYPICAL NOISE BARRIER ELEVATION

(STAIN AND FORMLINER TO BE PLACED ON BOTH SIDES OF NOISE WALL)

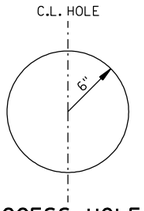
ACCESS HOLE LOCATIONS

*WALL STA.
15+90
18+91

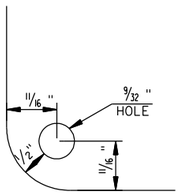
*ADJUST WALL STATIONS AS REQUIRED TO PLACE ACCESS HOLES MIDWAY BETWEEN POSTS.



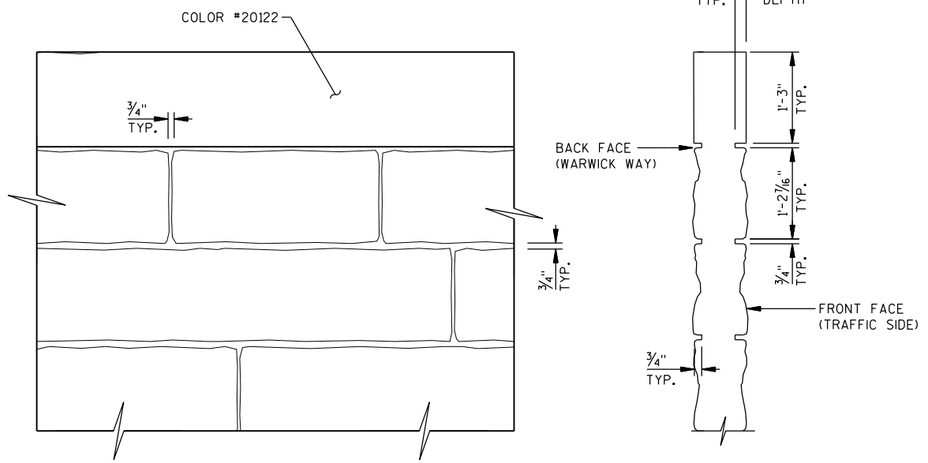
DETAIL A



HOSE ACCESS HOLE DETAIL



DETAIL B



FORMLINER DETAILS

AESTHETIC NOTES

AESTHETIC DETAILS AS SHOWN IN THIS PLAN AS NOTED IN THE SPECIAL PROVISIONS.

ALL STONE EDGES ADJACENT TO HORIZONTAL PANEL JOINTS SHALL BE CUT STONE TEXTURE.

ALL STONE EDGES ADJACENT TO VERTICAL PANEL JOINTS SHALL BE FLUSH CUT.

HORIZONTAL AND VERTICAL MORTAR JOINT DEPTHS TO BE 2" ON FRONT FACE (TRAFFIC SIDE) AND 3/4" DEPTH ON BACK FACE (WARWICK WAY).

FORMLINER COURSING SHALL BE LEVEL AND CONTINUOUS ACROSS VERTICAL PANEL JOINTS.

AVERAGE RELIEF IS 3/4" (BOTH FACES).

ALL EXPOSED SURFACES OF FORMLINED BLOCKS TO BE SPLIT FACE INCLUDING FACES AND EDGES.

LEGEND

(1) STEP PANELS A MINIMUM OF 1'-3" AND A MAXIMUM OF 2'-6", IN INCREMENTS OF 1'-3". WHEN MORE THAN ONE PANEL MUST BE STEPPED, KEEP THE STEP INCREMENT THE SAME FOR EACH OF STEPPING PANELS.

(2) ADJUST VERTICAL PLACEMENT OF PANELS TO MAXIMIZE HORIZONTAL RUNS, KEEPING THE TOP OF PANELS AT THE SAME ELEVATION. THE TOP OF WALL SHALL BE AT OR ABOVE ACOUSTICAL LINE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE N-13-2

DRAWN BY MAH | PLANS CK'D. ETP

ELEVATION AND AESTHETIC DETAILS

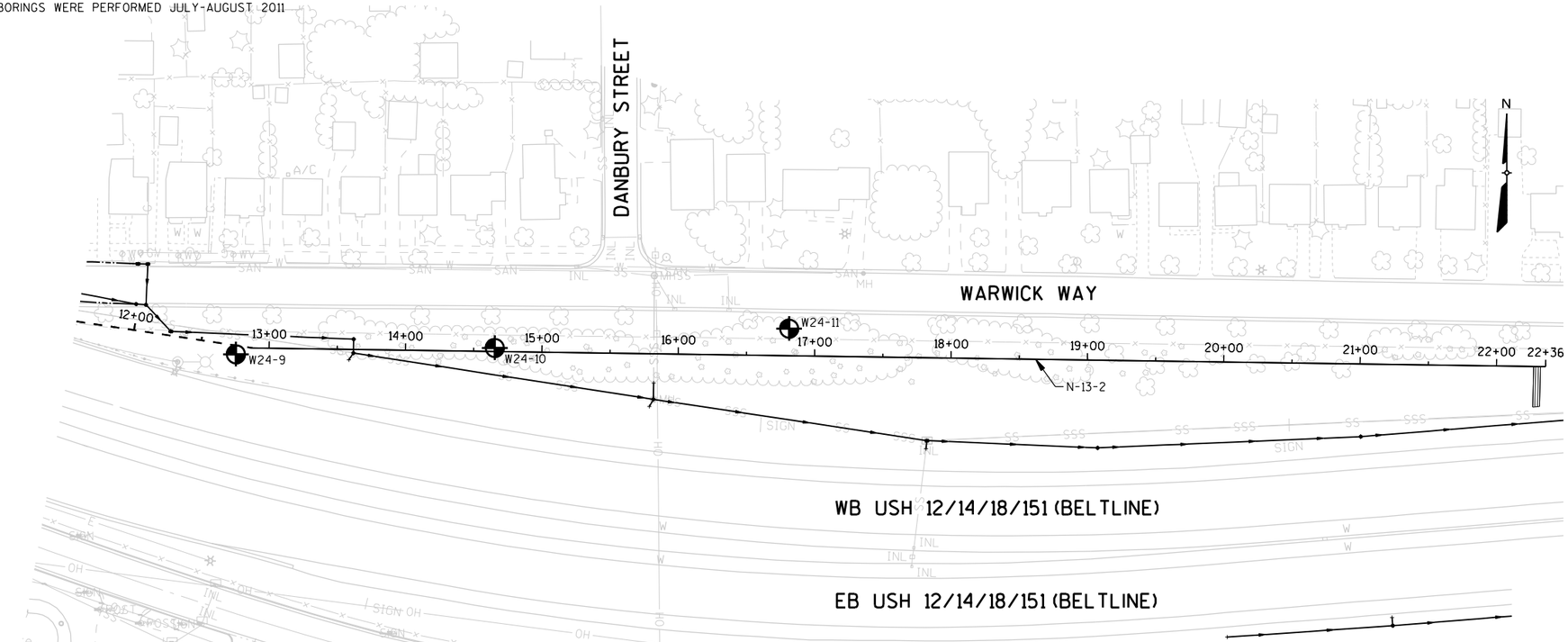
SHEET 3 OF 5
1035

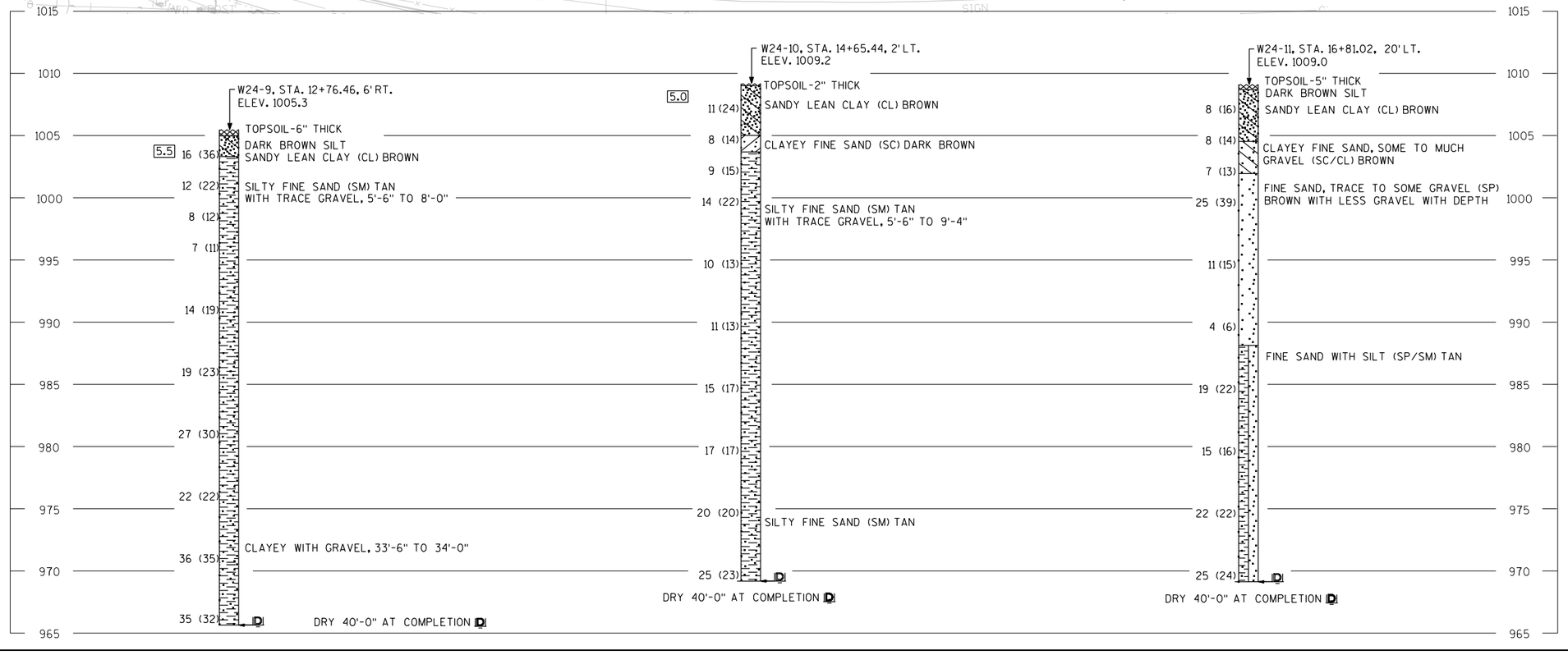
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BORINGS AND REPORT BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713-4648

BORINGS WERE PERFORMED JULY-AUGUST 2011





STATE PROJECT NUMBER

1206-07-77

ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

MATERIAL SYMBOLS

TOPSOIL SILT SANDSTONE
SAND PEAT LIMESTONE
GRAVEL CLAY IGNEOUS ROCK

LEGEND OF PROBING

PROBING NO.
STA.
ELEVATION
7 AVERAGE BLOWS PER FOOT
REFUSAL 95/6

95/6=95 BLOWS FOR 6" PENETRATION
PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING

BORING NO.
ELEV. STA.
UNCONFINED STRENGTH → 7.7 7 (7)
BLOWS PER FT. USING 140# WT. FALLING 30"
N_{160}-VALUE
SANDY GRAVEL
F. BOULDERS OR COBBLES
SAND
SHELBY TUBE — S.T.
GROUND WATER ELEVATION
SILTY CLAY
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SO LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE N-13-2

DRAWN BY MAH PLANS CK'D. ETP

SUBSURFACE EXPLORATION-1

SHEET 4 OF 5
1036

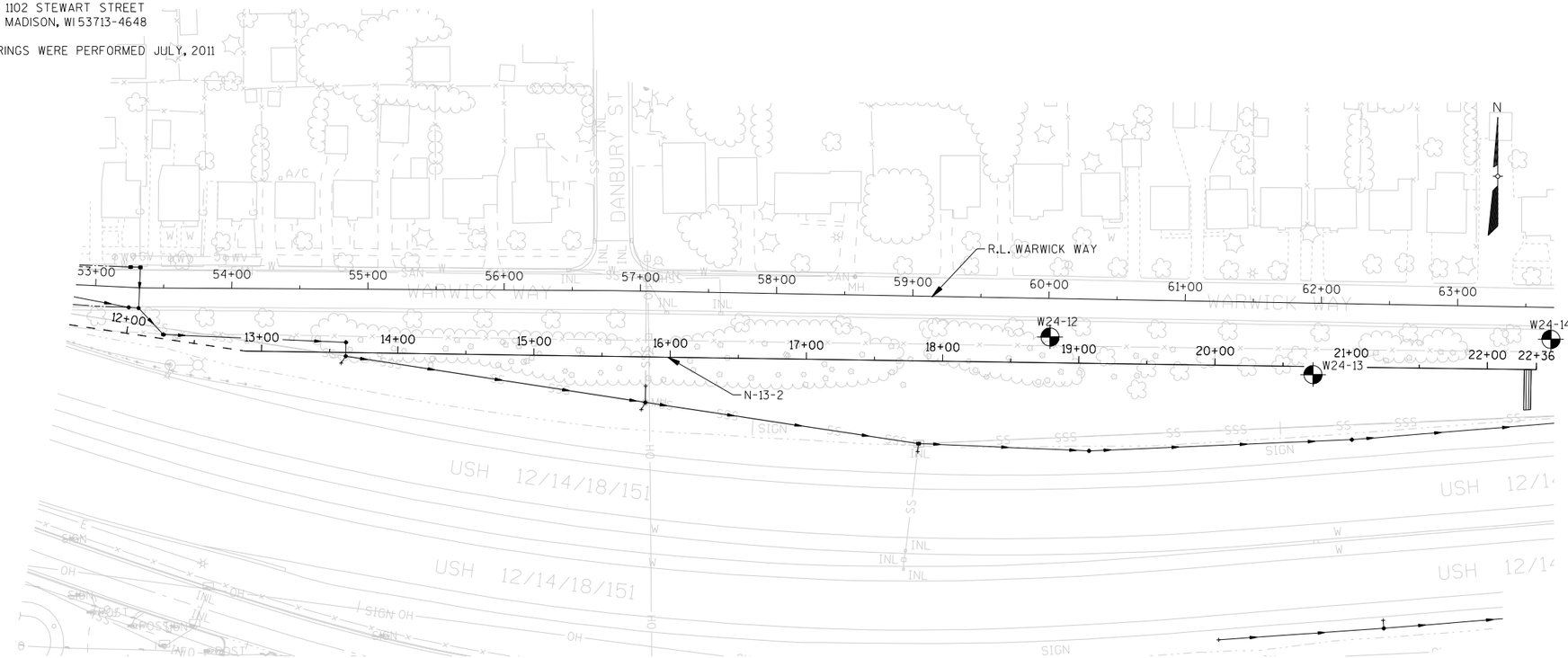
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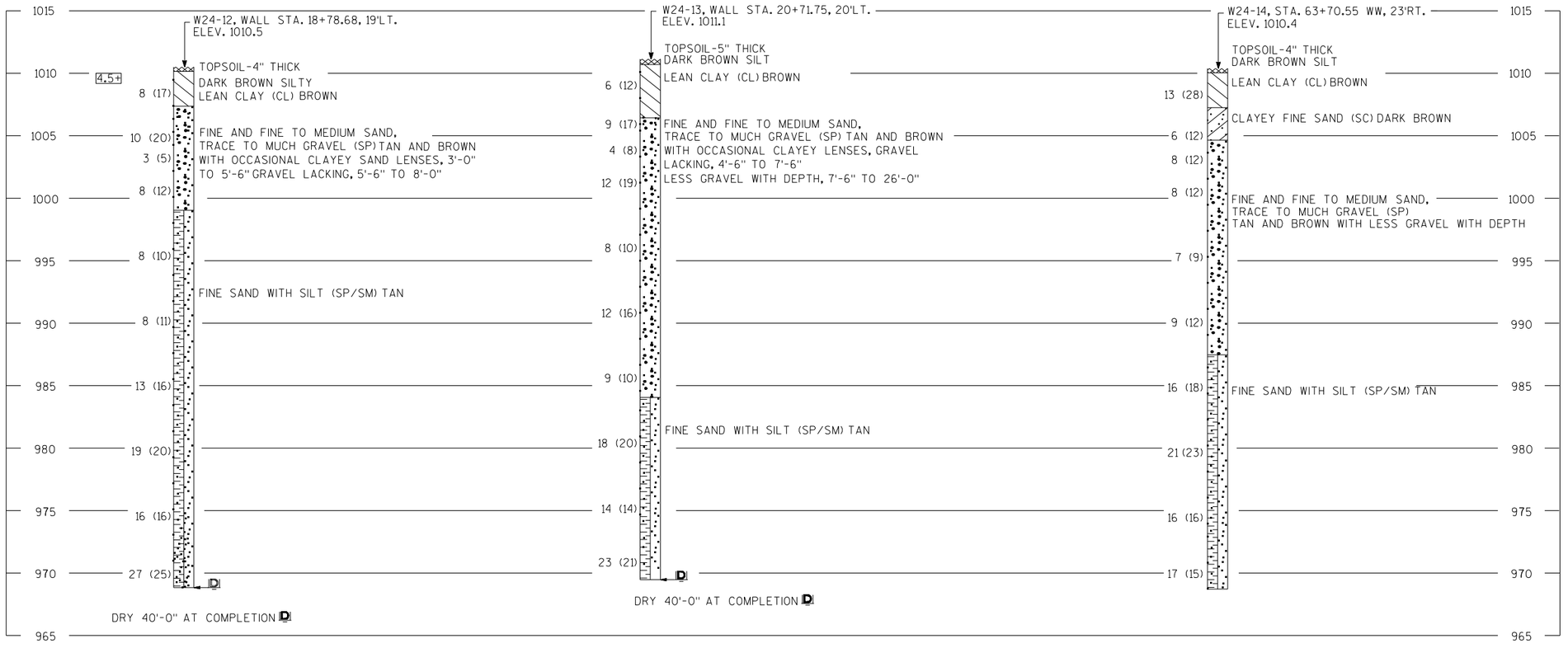
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BATCH PRINT SHEET 4 OF 5

BORINGS AND REPORT BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713-4648

BORINGS WERE PERFORMED JULY, 2011





STATE PROJECT NUMBER

1206-07-77

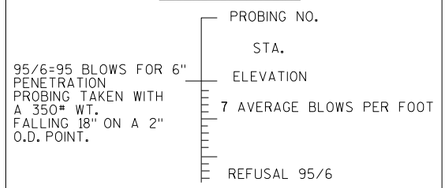
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

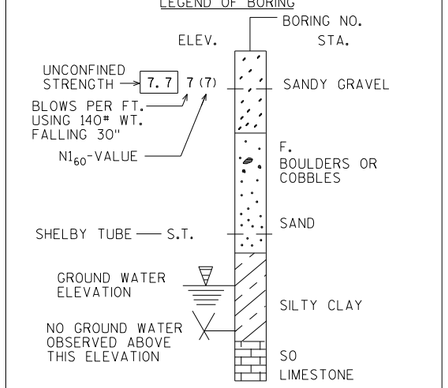
MATERIAL SYMBOLS

TOPSOIL SILT SANDSTONE
SAND PEAT LIMESTONE
GRAVEL CLAY IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE N-13-2

DRAWN BY MAH PLANS CK'D. ETP

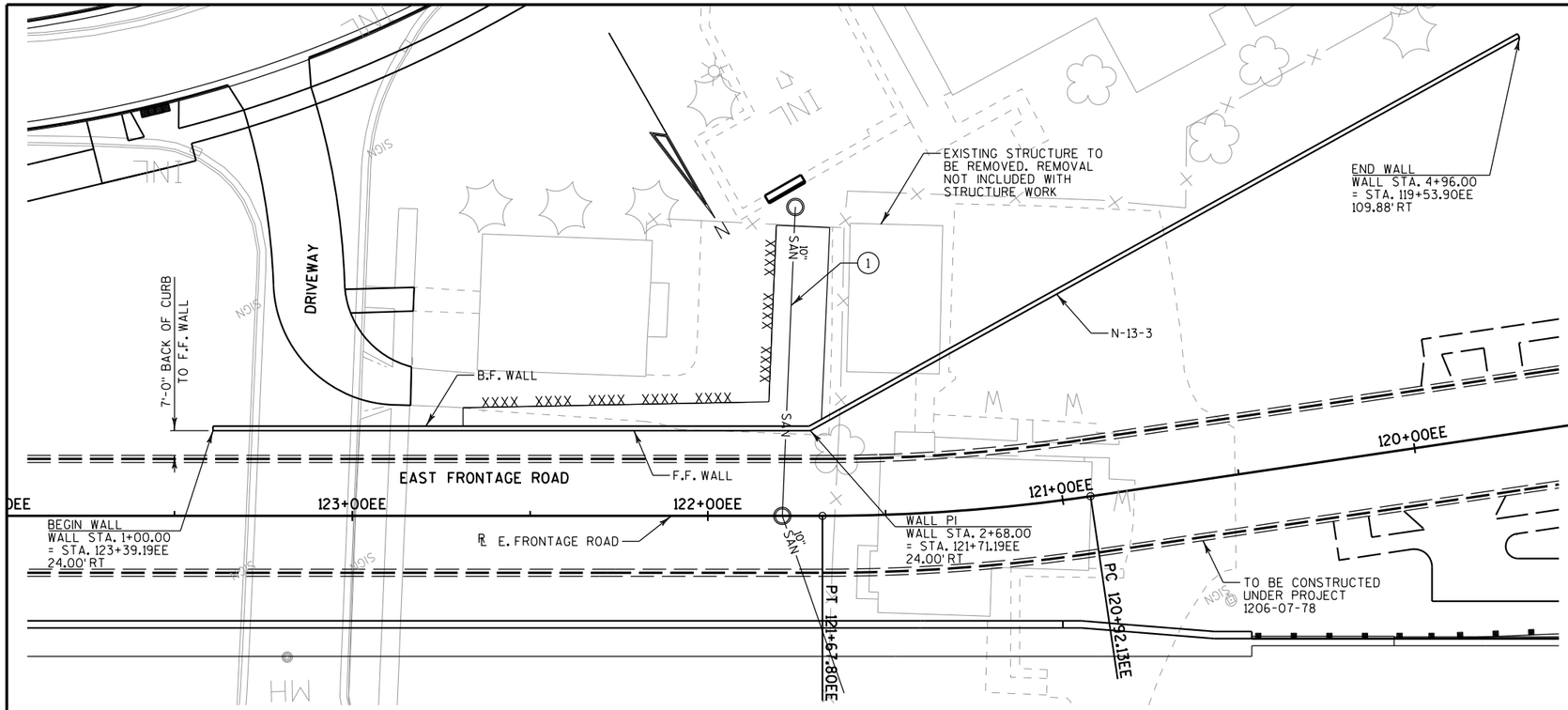
SUBSURFACE EXPLORATION-2

SHEET 5 OF 5
1037

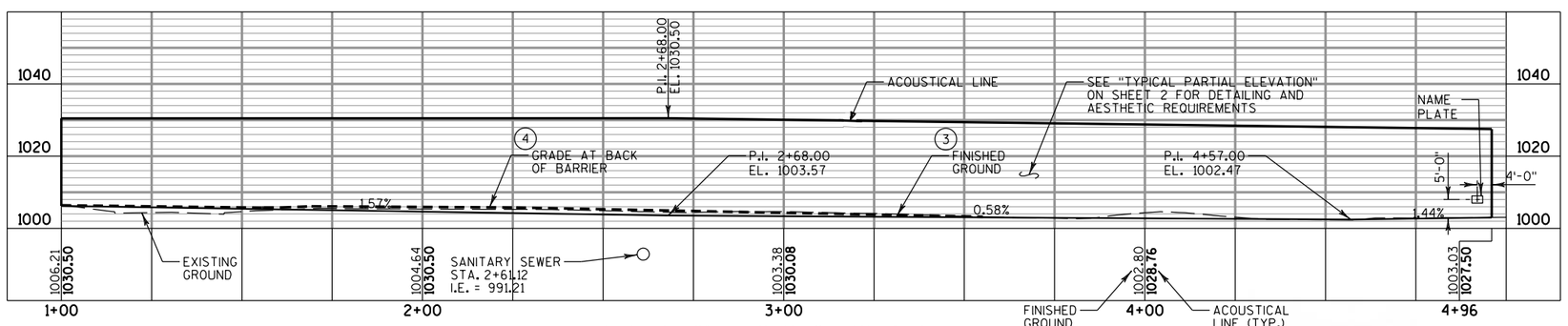
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PLAN - STRUCTURE N-13-3



ELEVATION - STRUCTURE N-13-3

(LOOKING AT F.F.)

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
(2)	531.0300.S.02	NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE STRUCTURE N-13-3	SF	10,160

ALL ITEMS ARE CATEGORY 0100

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
37	1154+29 (BELTLINE), 240' RT	RR SPIKE IN POWER POLE	1005.68

WISCONSIN
WILLIAM A. HOVE
E-33600
MADISON, WI
PROFESSIONAL ENGINEER

1-28-2013

LIST OF DRAWINGS

1. GENERAL PLAN
2. NOISE BARRIER DETAILS
3. DETAILS & SOIL PARAMETERS
4. SUBSURFACE EXPLORATION

STATE PROJECT NUMBER

1206-07-77

GENERAL NOTES AND DESIGN DATA

DRAWINGS SHALL NOT BE SCALED.

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE NOISE BARRIER IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE NOISE BARRIER MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "NOISE BARRIER DOUBLE SIDED SOUND ABSORPTIVE N-13-3".

PLANS, ELEVATIONS AND DETAILS SHOWN ARE INTENDED TO INDICATE LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE NOISE BARRIER IS TO BE DESIGNED USING THE GROUND LINE AND ACOUSTIC LINE SHOWN ON THIS SHEET.

ALL NOISE BARRIER SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT "GUIDE SPECIFICATIONS FOR STRUCTURAL DESIGN OF SOUND BARRIERS", PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).

THE FOLLOWING DESIGN PRESSURES SHALL BE USED IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND GUIDE SPECIFICATIONS:

WIND LOAD _____ 28.5 PSF (GROUND MOUNTED)

LIVE LOAD SURCHARGE ___ 240 PSF (WHERE APPLICABLE)

EARTH LOAD _____ PER SOILS PARAMETER TABLE (40 PSF MIN.)

INCLUDE THE COST OF THE SURFACE TREATMENT, REVEALS, COATING OF STEEL POSTS AND CONNECTIONS AND COLORING/STAINING THE PANELS, UNDER THE BID ITEMS "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-13-3".

A GEOTECHNICAL REPORT HAS BEEN COMPLETED FOR THIS STRUCTURE AND IS AVAILABLE UPON REQUEST FROM WISDOT'S SW REGION OFFICE.

LEGEND

(1) CONTRACTOR SHALL COORDINATE WALL POST LOCATIONS AND SANITARY SEWER LOCATIONS TO ENSURE PROPOSED POST LOCATIONS DO NOT INTERFERE WITH SANITARY SEWER LOCATION.

(2) PAY LIMIT MEASURED FROM ACOUSTICAL LINE TO FINISHED GROUND LINE AT FRONT FACE OF BARRIER. BARRIER MAY BE LOCATED IN A SLOPED OR RETAINED SECTION AND EMBEDMENT SHALL BE AS SHOWN ON SHEET 3.

(3) FINAL GRADING WILL BE COMPLETED UNDER FUTURE PROJECT 1206-07-78. FINISHED GROUND LINE SHOWN IS AT FRONT FACE OF BARRIER.

(4) PORTIONS OF THE BARRIER THAT RETAIN EARTH OR ARE IN A SLOPED SECTION SHALL CONFORM TO THE DETAILS ON SHEET 3. SEE ROADWAY PLANS FOR FURTHER INFORMATION FOR WORK ADJACENT TO THE WALLS.

NO.	DATE	REVISION	BY

CORRE
Structural Environmental Municipal Transportation
6510 GRAND TETON PLAZA, SUITE 314
MADISON, WI 53719
(608)828-1011
www.correengineering.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 03/08/13
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE N-13-3

NOISE BARRIER AT VERONA ROAD EAST FRONTAGE ROAD

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
DANE	MADISON

DESIGN SPEC.
AASHTO STD. SPEC. 2002

DESIGNED BY	PJM	DESIGN CK'D.	BH	DRAWN BY	BSS	PLANS CK'D.	BH

GENERAL PLAN

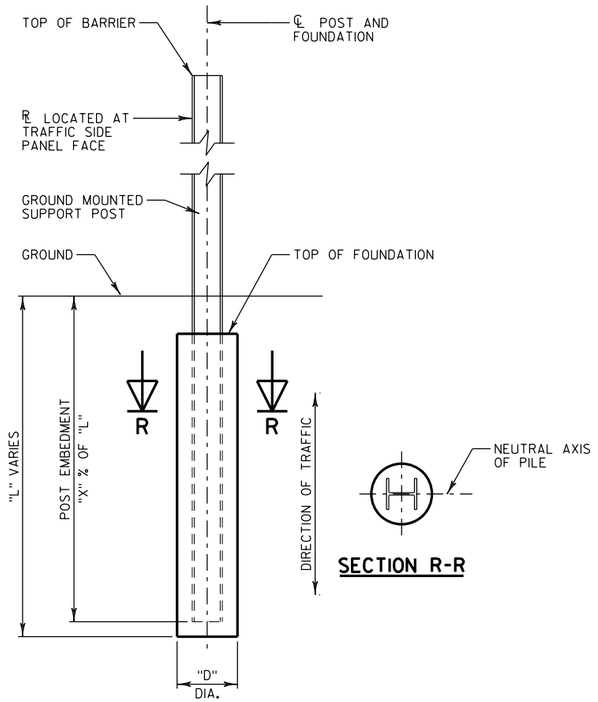
SHEET 1 OF 4

1038

SW REGION CONTACT:
MARK VESPERMAN (608) 246-7548

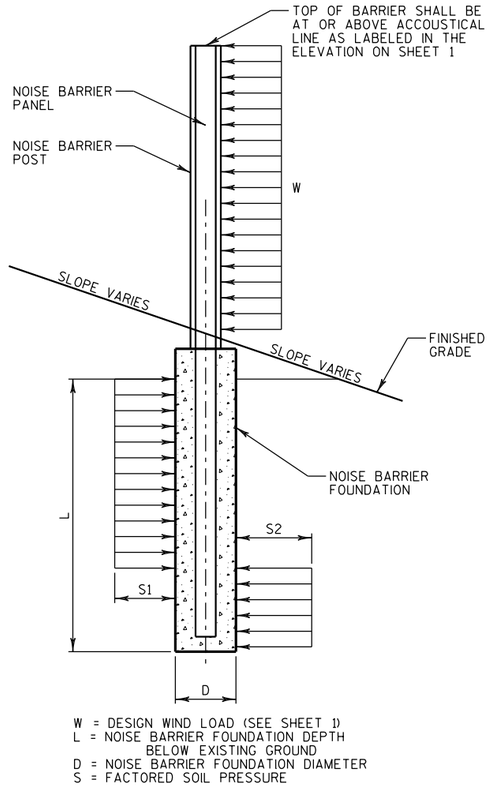
BUREAU OF STRUCTURES CONTACT:
WILLIAM DREHER (608) 266-8489

CONSULTANT CONTACT:
BILL HOVE (608) 828-1011



SECTION THRU GROUND MOUNTED VERTICAL SUPPORT POST & AUGER CAST PILE

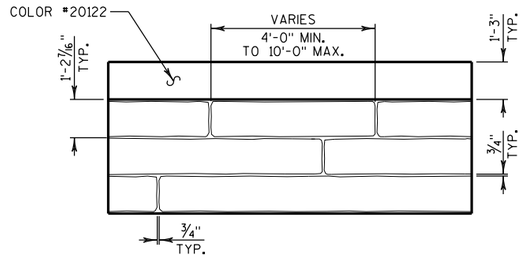
TYPICAL AT EACH POST LOCATION
(NOT TO SCALE)
("D", "L" AND "X" TO BE DETERMINED BY SUPPLIER)



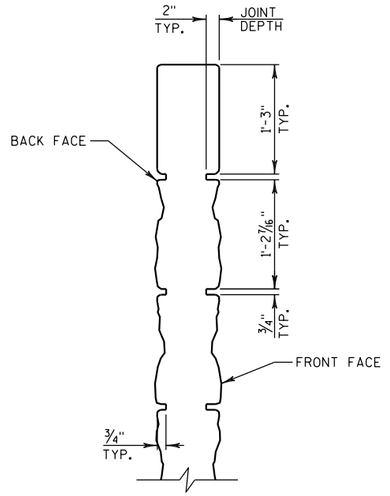
W = DESIGN WIND LOAD (SEE SHEET 1)
L = NOISE BARRIER FOUNDATION DEPTH BELOW EXISTING GROUND
D = NOISE BARRIER FOUNDATION DIAMETER
S = FACTORED SOIL PRESSURE

GROUND MOUNTED NOISE BARRIER LOADING

(NOT TO SCALE)



FORMLINER DETAILS



SECTION THRU FORMLINER

LEGEND

(1) STEP PANELS A MINIMUM OF 1'-3" AND A MAXIMUM OF 2'-6", IN INCREMENTS OF 1'-3". WHEN MORE THAN ONE PANEL MUST BE STEPPED, KEEP THE STEP INCREMENT THE SAME FOR EACH OF THE STEPPING PANELS.

(2) ADJUST VERTICAL PLACEMENT OF PANELS TO MAXIMIZE HORIZONTAL RUNS, KEEPING THE TOP OF PANELS AT THE SAME ELEVATION. THE TOP OF THE BARRIER SHALL BE AT OR ABOVE THE ACOUSTICAL LINE.

AESTHETIC NOTES

AESTHETIC DETAILS AS SHOWN IN THIS PLAN AS NOTED IN THE SPECIAL PROVISIONS.

ALL STONE EDGES ADJACENT TO HORIZONTAL PANEL JOINTS SHALL BE CUT STONE TEXTURE.

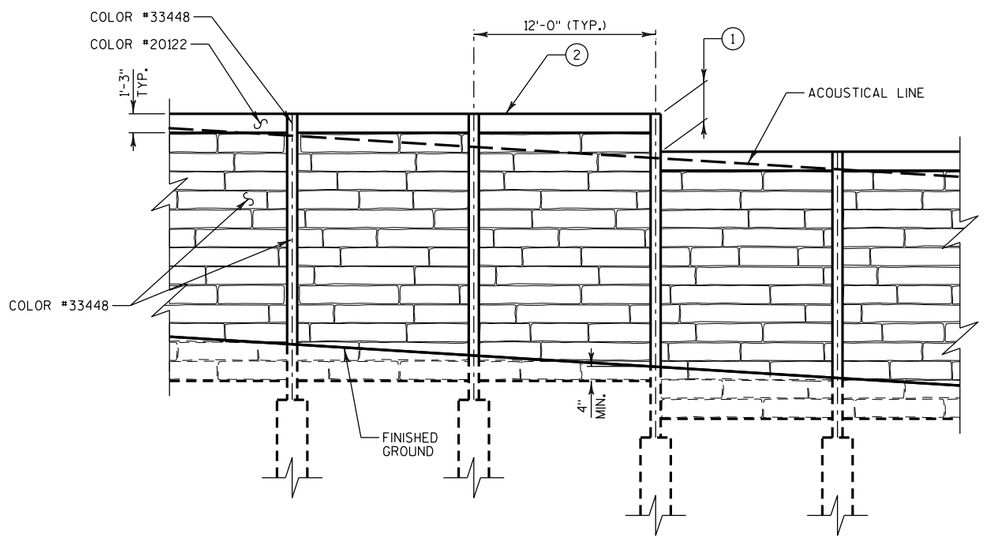
ALL STONE EDGES ADJACENT TO VERTICAL PANEL JOINTS SHALL BE FLUSH CUT.

HORIZONTAL AND VERTICAL MORTAR JOINT DEPTHS TO BE 2" ON FRONT FACE AND 3/4" DEPTH ON BACK FACE.

FORMLINER COURSING SHALL BE LEVEL AND CONTINUOUS ACROSS VERTICAL PANEL JOINTS.

AVERAGE STONE RELIEF IS 3/4" (BOTH FACES).

ALL EXPOSED SURFACES OF FORMLINED BLOCKS TO BE SPLIT FACE INCLUDING FACES AND EDGES.



TYPICAL PARTIAL ELEVATION - STRUCTURE N-13-3

(STAIN AND FORMLINER TO BE PLACED ON BOTH SIDES)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE N-13-3

DRAWN BY BSS | PLANS CK'D. BH

NOISE BARRIER DETAILS

SHEET 2 OF 4

1039

STATE PROJECT NUMBER

1206-07-77

8

8

FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\N-13-0003\080102-walldet.dgn PLOT DATE : 1/28/2013

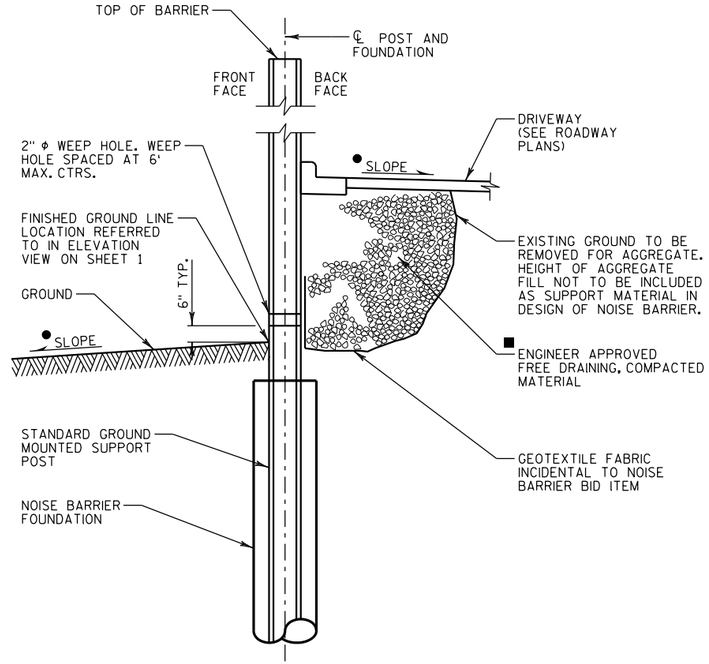
PLOT SCALE : 5.00000 ' / in.

STATE PROJECT NUMBER

1206-07-77

SOIL PARAMETERS

ELEVATION (feet)			ESTIMATED SOIL PROPERTIES			LATERAL EARTH PRESSURE COEFFICIENTS		
FROM	TO	MATERIAL TYPE	DENSITY (pcf)	ANGLE OF INTERNAL FRICTION (degrees)	COHESION (psf)	ACTIVE Ka	PASSIVE Kp	AT-REST Ko
BORING W25-1								
1002.0	999.9	LEAN CLAY	130	0	3,000	1	1	1
999.9	997.4	SILTY FINE SAND	122	33	0	0.29	3.4	0.46
997.4	991.0	FINE SAND	120	30	0	0.33	3	0.5
991.0	987.2	FINE SAND WITH SILT	120	30	0	0.33	3	0.5
987.2	982.9	FINE SAND WITH SILT	125 (SATURATED)	31	0	0.32	3.1	0.49
BORING W25-2								
1004.6	1003.4	TOPSOIL	120	5	1,000	0.84	1.2	0.91
1003.4	1002.1	SANDY LEAN CLAY	125	15	850	0.59	1.7	0.74
1002.1	999.6	SANDY LEAN CLAY	128	15	1,700	0.59	1.7	0.74
999.6	996.4	LEAN CLAY	121	0	1,000	1	1	1
996.4	992.6	SILTY FINE SAND	122	30	0	0.33	3	0.5
992.6	988.6	FINE SAND WITH SILT	120	31	0	0.32	3.1	0.49
988.6	985.1	FINE SAND WITH SILT	125 (SATURATED)	30	0	0.33	3	0.5
BORING W25-3								
1002.4	999.7	LEAN CLAY	130	0	1,800	1	1	1
999.7	998.7	SILTY FINE SAND	122	28	0	0.36	2.8	0.53
998.7	996.0	FINE SAND WITH SILT	124	32	0	0.31	3.3	0.47
996.0	991.7	FINE SAND WITH SILT	123	30	0	0.33	3	0.5
991.7	984.2	FINE SAND	124	32	0	0.31	3.3	0.47



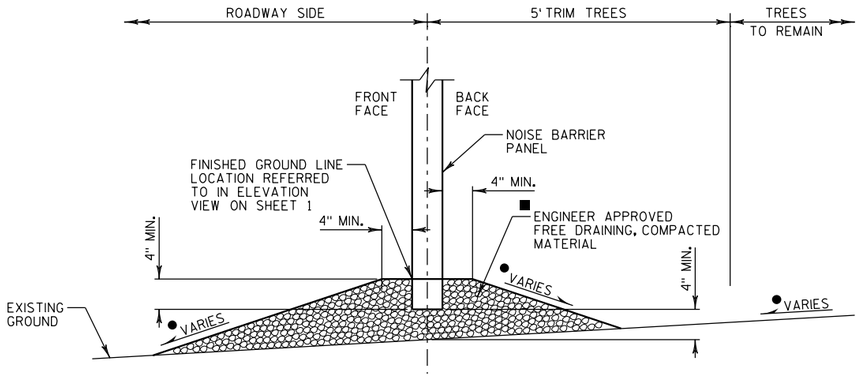
*** EARTH RETENTION DETAIL**
(NOT TO SCALE)

NOTES

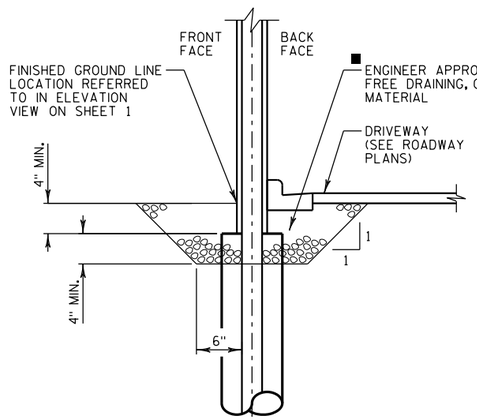
DETAILS SHOWN ARE GENERAL GUIDELINES FOR A VARIETY OF APPLICATIONS THAT MAY NOT ALL BE UTILIZED FOR THE SUBJECT WALL. SPECIFIC DETAILS SHALL BE PROVIDED BY THE NOISE BARRIER FABRICATOR AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

LEGEND

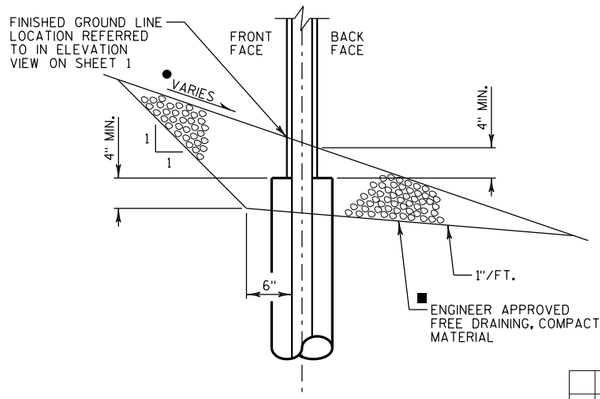
- ✱ ALL ITEMS SHOWN ARE INCIDENTAL TO THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE STRUCTURE N-13-3."
- ● SEE ROADWAY CROSS SECTIONS FOR SLOPES
- ■ AT A MINIMUM, MATERIAL AND COMPACTION SHALL MEET THE REQUIREMENTS OF SECTION 312 OF THE STANDARD SPECIFICATIONS.



*** CLEARING/GRUBBING AND FINISHING FILL SECTION**
(NOT TO SCALE)



*** LEVEL GRADE BACKFILL & DRAINAGE DETAIL**
(NOT TO SCALE)



*** SLOPED GRADE BACKFILL & DRAINAGE DETAIL**
(NOT TO SCALE)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE N-13-3

DRAWN BY BSS | PLANS CK'D. BH

DETAILS & SOIL PARAMETERS

SHEET 3 OF 4

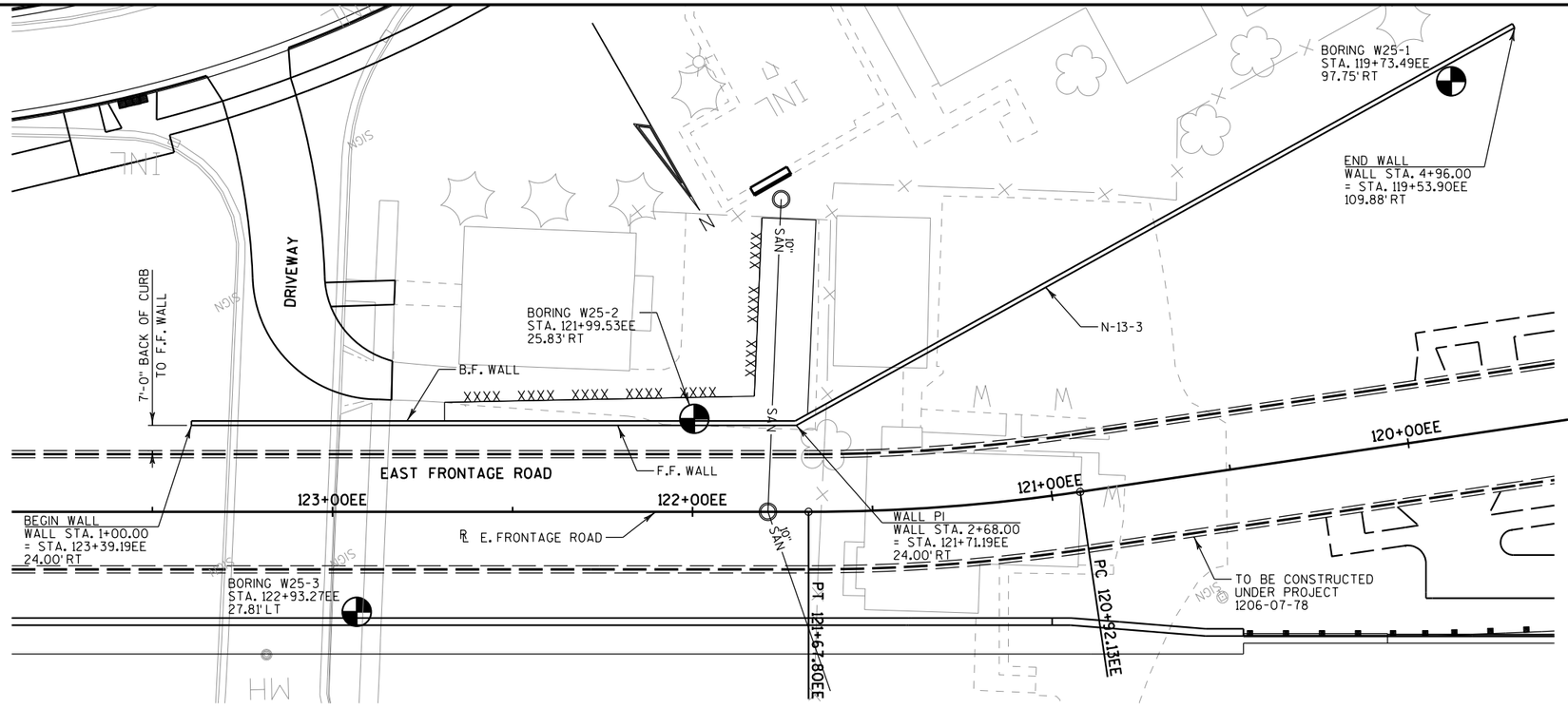
1040

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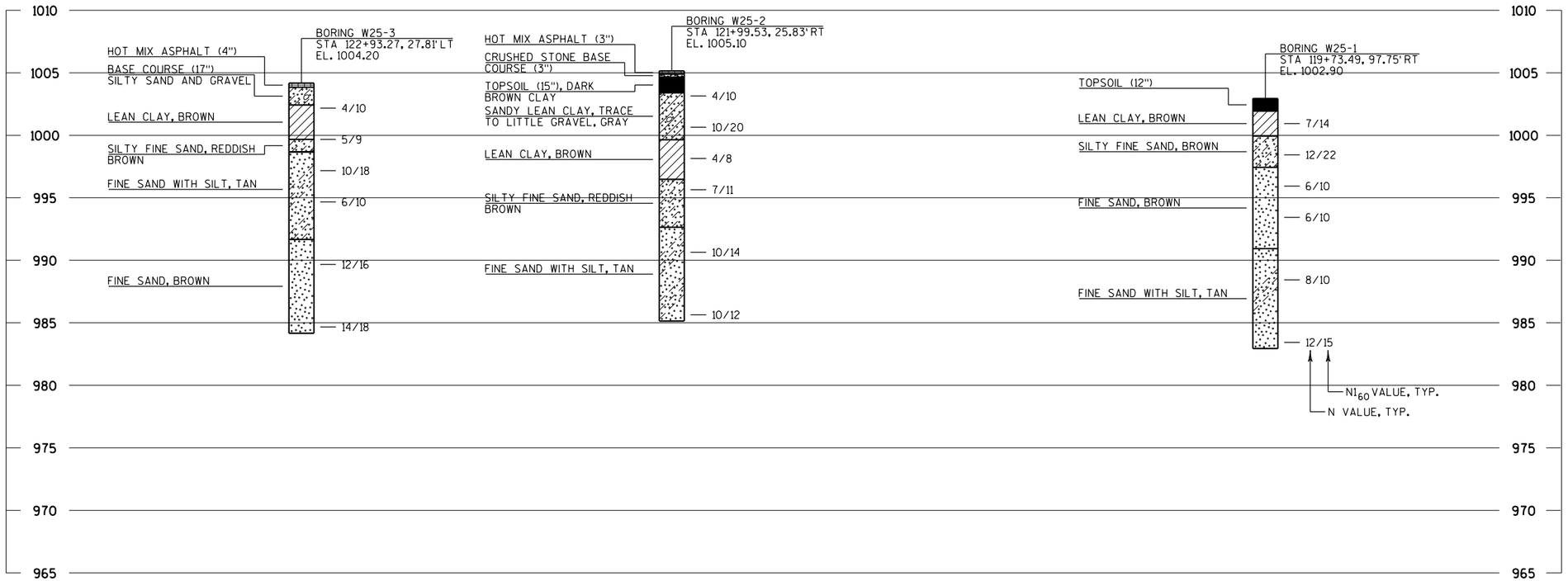
FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\N-13-0003\080103-soilparameters.dgn PLOT DATE : 1/28/2013

PLOT SCALE : 200.00000 ' / in.



SOIL BORINGS PERFORMED BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713
(608)-274-7600

BORINGS W25-2 & W25-3
PERFORMED ON 5/26/11
BORING W25-1
PERFORMED ON 6/07/11



STATE PROJECT NUMBER

1206-07-77

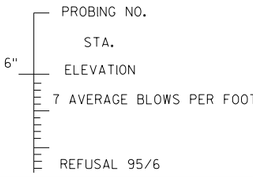
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

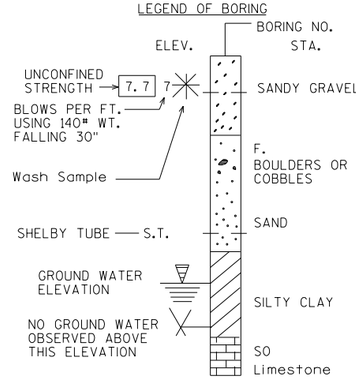
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE N-13-3

DRAWN BY BSS | PLANS CK'D. BH

SUBSURFACE EXPLORATION

SHEET 4 OF 4

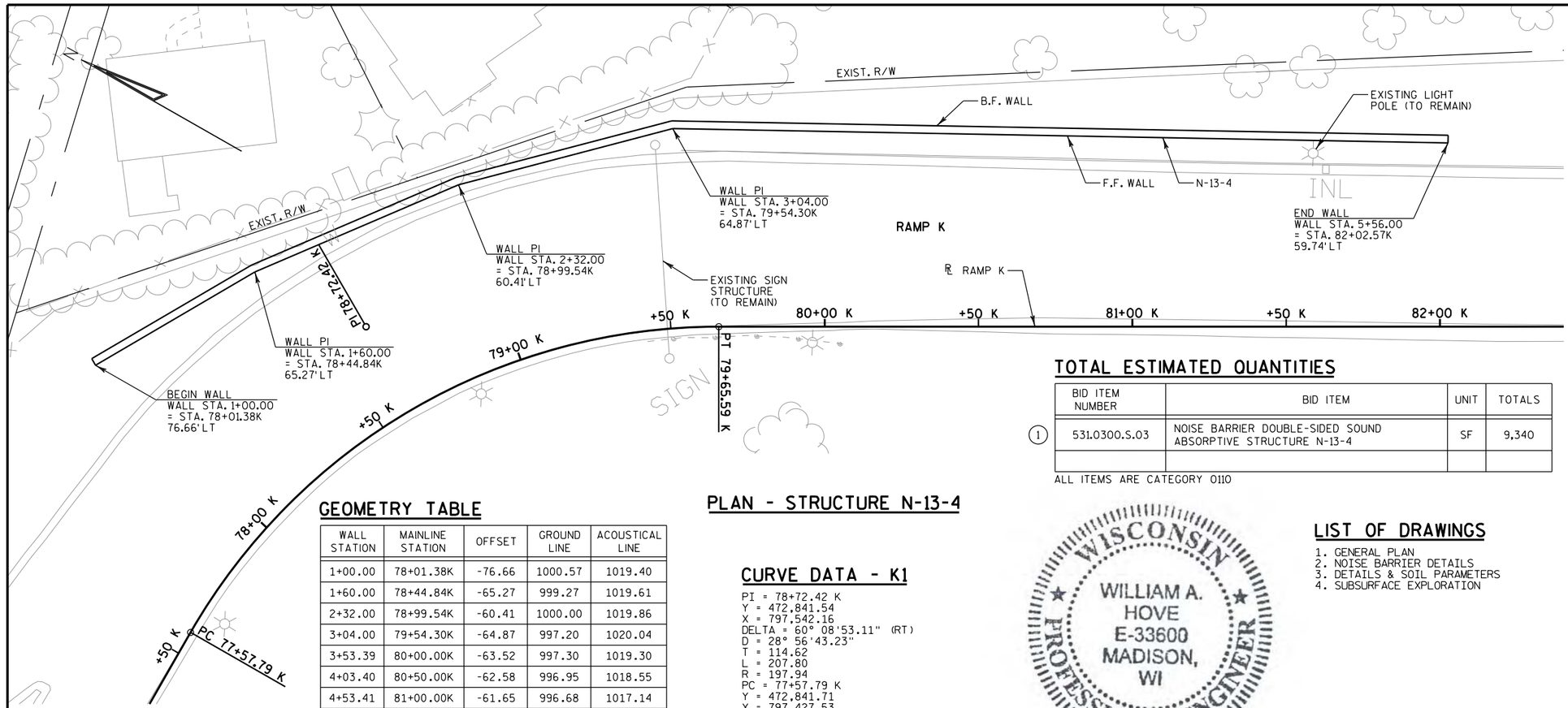
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FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\N-13-0003\080104-subsexpl.dgn PLOT DATE : 1/28/2013

PLOT SCALE : 40.00000 ' / in.



GEOMETRY TABLE

WALL STATION	MAINLINE STATION	OFFSET	GROUND LINE	ACOUSTICAL LINE
1+00.00	78+01.38K	-76.66	1000.57	1019.40
1+60.00	78+44.84K	-65.27	999.27	1019.61
2+32.00	78+99.54K	-60.41	1000.00	1019.86
3+04.00	79+54.30K	-64.87	997.20	1020.04
3+53.39	80+00.00K	-63.52	997.30	1019.30
4+03.40	80+50.00K	-62.58	996.95	1018.55
4+53.41	81+00.00K	-61.65	996.68	1017.14
5+03.42	81+50.00K	-60.72	996.38	1015.12
5+56.00	82+02.57K	-59.74	995.91	1013.00

PLAN - STRUCTURE N-13-4

CURVE DATA - K1

PI = 78+72.42 K
Y = 472,841.54
X = 797,542.16
DELTA = 60° 08'53.11" (RT)
D = 28° 56'43.23"
T = 114.62
L = 207.80
R = 197.94
PC = 77+57.79 K
Y = 472,841.71
X = 797,427.53
PT = 79+65.59 K
Y = 472,742.04
X = 797,599.06

TOTAL ESTIMATED QUANTITIES

	BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
(1)	531.0300.S.03	NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE STRUCTURE N-13-4	SF	9,340

ALL ITEMS ARE CATEGORY 0110

WISCONSIN
WILLIAM A. HOVE
E-33600
MADISON, WI
PROFESSIONAL ENGINEER

1-28-2013

LIST OF DRAWINGS

1. GENERAL PLAN
2. NOISE BARRIER DETAILS
3. DETAILS & SOIL PARAMETERS
4. SUBSURFACE EXPLORATION

STATE PROJECT NUMBER

1206-07-77

GENERAL NOTES AND DESIGN DATA

DRAWINGS SHALL NOT BE SCALED.

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE NOISE BARRIER IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE NOISE BARRIER MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "NOISE BARRIER DOUBLE SIDED SOUND ABSORPTIVE N-13-4".

PLANS, ELEVATIONS AND DETAILS SHOWN ARE INTENDED TO INDICATE LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE NOISE BARRIER IS TO BE DESIGNED USING THE GROUND LINE AND ACOUSTIC LINE SHOWN ON THIS SHEET.

ALL NOISE BARRIER SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT "GUIDE SPECIFICATIONS FOR STRUCTURAL DESIGN OF SOUND BARRIERS", PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).

THE FOLLOWING DESIGN PRESSURES SHALL BE USED IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND GUIDE SPECIFICATIONS:

WIND LOAD _____ 28.5 PSF (GROUND MOUNTED)

LIVE LOAD SURCHARGE ___ 240 PSF (WHERE APPLICABLE)

EARTH LOAD _____ PER SOILS PARAMETER TABLE (40 PSF MIN.)

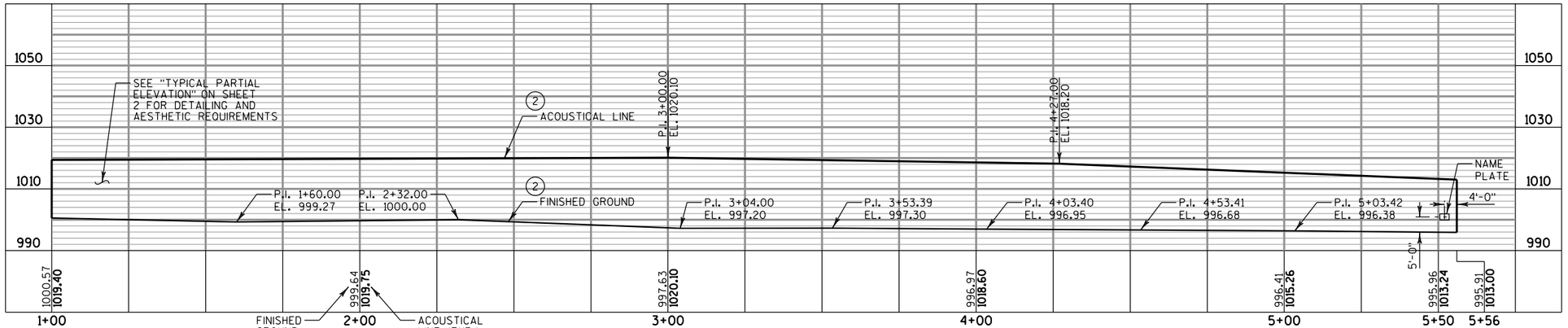
INCLUDE THE COST OF THE SURFACE TREATMENT, REVEALS, COATING OF STEEL POSTS AND CONNECTIONS AND COLORING/STAINING THE PANELS, UNDER THE BID ITEMS "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-13-4".

A GEOTECHNICAL REPORT HAS BEEN COMPLETED FOR THIS STRUCTURE AND IS AVAILABLE UPON REQUEST FROM WISDOT'S SW REGION OFFICE.

LEGEND

(1) PAY LIMIT MEASURED FROM ACOUSTICAL LINE TO FINISHED GROUND LINE AT FRONT FACE OF BARRIER. FINISHED GROUND LINE ELEVATION IN GEOMETRY TABLE AND ELEVATION VIEW IS AT FRONT FACE OF BARRIER. BARRIER MAY BE LOCATED IN A SLOPED OR RETAINED SECTION AND EMBEDMENT SHALL BE AS SHOWN ON SHEET 3.

(2) SEE GEOMETRY TABLE FOR STATION, OFFSETS & ELEVATIONS. FINISHED GROUND LINE SHOWN IS AT FRONT FACE OF BARRIER. PORTIONS OF THE BARRIER THAT RETAIN EARTH OR ARE IN A SLOPED SECTION SHALL CONFORM TO THE DETAILS SHOWN ON SHEET 3. FINISHED GROUND WILL BE THE SAME AS EXISTING GROUND. NO CHANGES ARE PROPOSED TO THE EXISTING GROUND OR GRADE. DISTURBED AREAS SHALL BE RESTORED AS DIRECTED BY THE ENGINEER. SITE PREPARATION, WHICH INCLUDES CLEARING, GRUBBING, EXCAVATION AND REMOVAL OF FENCES, STONE, ETC. IS INCIDENTAL TO THE NOISE BARRIER BID ITEM.



ELEVATION - STRUCTURE N-13-4

(LOOKING AT F.F.)

SW REGION CONTACT:
MARK VESPERMAN (608) 246-7548

BUREAU OF STRUCTURES CONTACT:
WILLIAM DREHER (608) 266-8489

CONSULTANT CONTACT:
BILL HOVE (608) 828-1011

NO.	DATE	REVISION	BY

CORRE
Structural
Environmental
Municipal
Transportation
6510 GRAND TETON PLAZA, SUITE 314
MADISON, WI 53719
(608)826-1061
www.correngineering.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 03/08/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE N-13-4

NOISE BARRIER AT USH 12/14 WB OFF-RAMP TO WHITNEY WAY

COUNTY: DANE — ~~TOWN~~/CITY/~~VILLAGE~~: MADISON

DESIGN SPEC.
AASHTO STD. SPEC. 2002

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
PJM	BH	BSS	BH

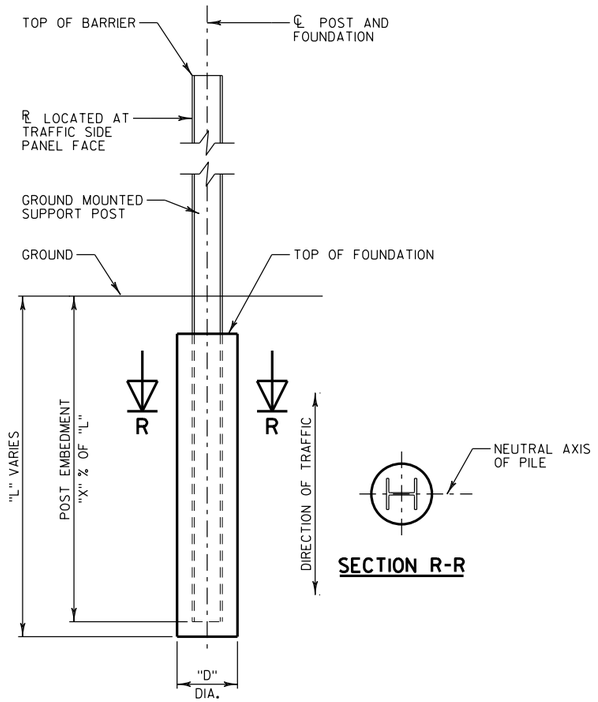
GENERAL PLAN

SHEET 1 OF 4

1042

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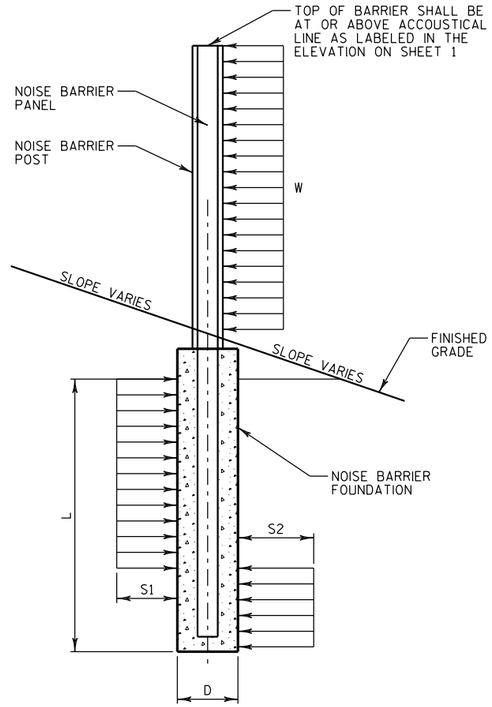
8



SECTION R-R

SECTION THRU GROUND MOUNTED VERTICAL SUPPORT POST & AUGER CAST PILE

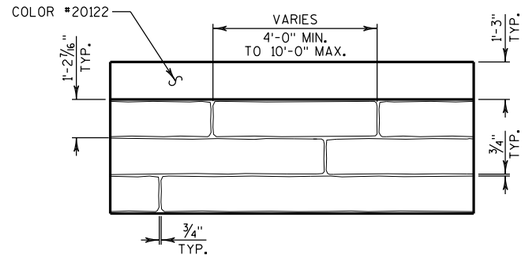
TYPICAL AT EACH POST LOCATION
(NOT TO SCALE)
("D", "L" AND "X" TO BE DETERMINED BY SUPPLIER)



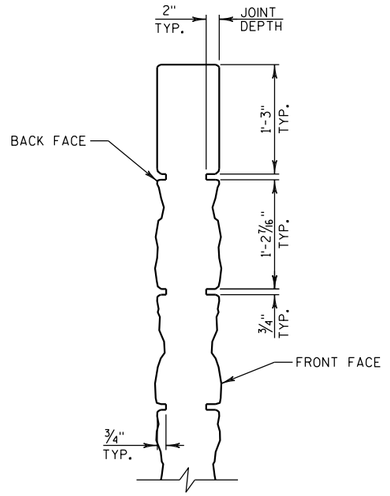
W = DESIGN WIND LOAD (SEE SHEET 1)
L = NOISE BARRIER FOUNDATION DEPTH BELOW EXISTING GROUND
D = NOISE BARRIER FOUNDATION DIAMETER
S = FACTORED SOIL PRESSURE

GROUND MOUNTED NOISE BARRIER LOADING

(NOT TO SCALE)



FORMLINER DETAILS



SECTION THRU FORMLINER

LEGEND

(1) STEP PANELS A MINIMUM OF 1'-3" AND A MAXIMUM OF 2'-6", IN INCREMENTS OF 1'-3". WHEN MORE THAN ONE PANEL MUST BE STEPPED, KEEP THE STEP INCREMENT THE SAME FOR EACH OF THE STEPPING PANELS.

(2) ADJUST VERTICAL PLACEMENT OF PANELS TO MAXIMIZE HORIZONTAL RUNS, KEEPING THE TOP OF PANELS AT THE SAME ELEVATION. THE TOP OF THE BARRIER SHALL BE AT OR ABOVE THE ACOUSTICAL LINE.

AESTHETIC NOTES

AESTHETIC DETAILS AS SHOWN IN THIS PLAN AS NOTED IN THE SPECIAL PROVISIONS.

ALL STONE EDGES ADJACENT TO HORIZONTAL PANEL JOINTS SHALL BE CUT STONE TEXTURE.

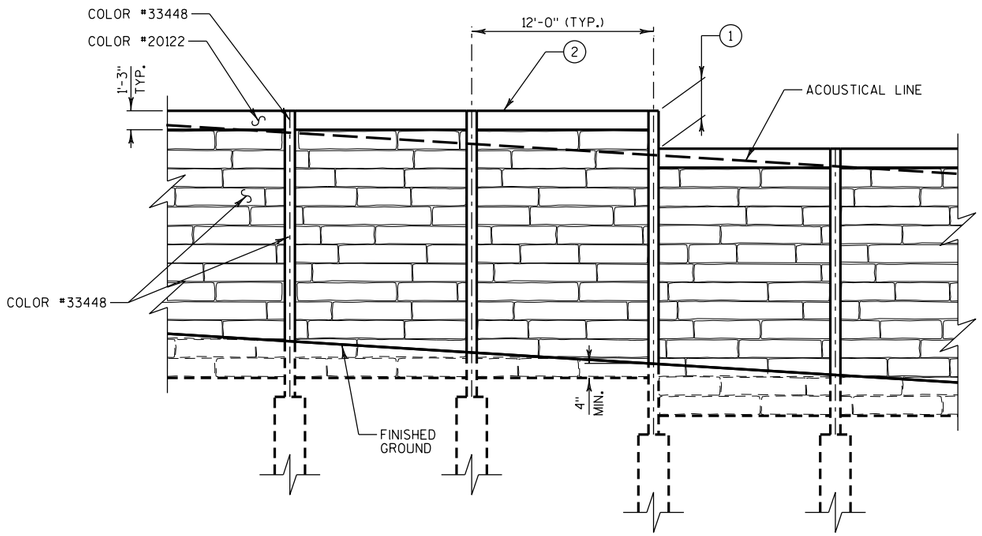
ALL STONE EDGES ADJACENT TO VERTICAL PANEL JOINTS SHALL BE FLUSH CUT.

HORIZONTAL AND VERTICAL MORTAR JOINT DEPTHS TO BE 2" ON FRONT FACE AND 3/4" DEPTH ON BACK FACE.

FORMLINER COURSING SHALL BE LEVEL AND CONTINUOUS ACROSS VERTICAL PANEL JOINTS.

AVERAGE STONE RELIEF IS 3/4" (BOTH FACES).

ALL EXPOSED SURFACES OF FORMLINED BLOCKS TO BE SPLIT FACE INCLUDING FACES AND EDGES.



TYPICAL PARTIAL ELEVATION - STRUCTURE N-13-4

(STAIN AND FORMLINER TO BE PLACED ON BOTH SIDES)

8

8

STATE PROJECT NUMBER

1206-07-77

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE N-13-4

DRAWN BY BSS | PLANS CK'D. BH

NOISE BARRIER DETAILS

SHEET 2 OF 4

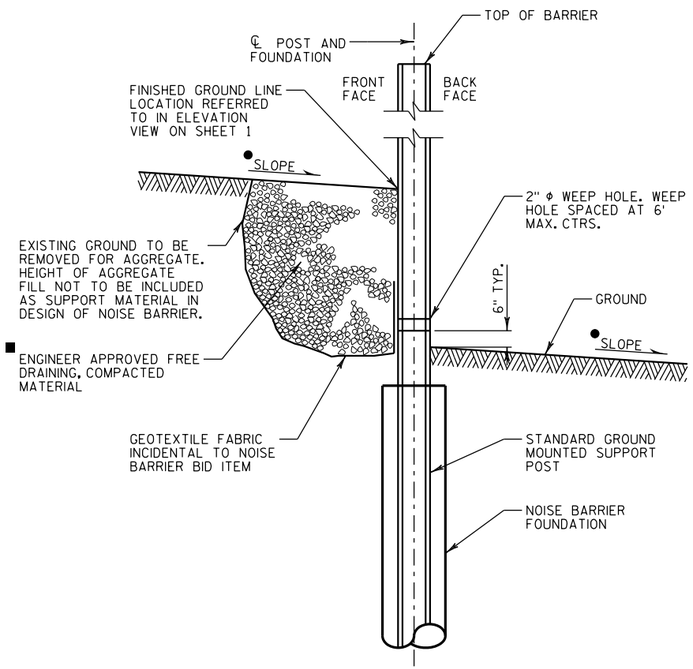
1043

STATE PROJECT NUMBER

1206-07-77

SOIL PARAMETERS

ELEVATION (feet)			ESTIMATED SOIL/BEDROCK PROPERTIES			LATERAL EARTH PRESSURE COEFFICIENTS		
FROM	TO	MATERIAL TYPE	DENSITY (pcf)	ANGLE OF INTERNAL FRICTION (degrees)	COHESION (psf)	ACTIVE Ka	PASSIVE Kp	AT-REST Ko
BORING NW6-1								
1002.5	991.8	FINE SAND WITH SILT	122	32	0	0.31	3.3	0.47
991.8	984.3	SANDY SILT	130	15	2,500	0.59	1.7	0.74
984.3	976.0	FINE TO COARSE SAND, WITH SILT & GRAVEL	128	33	0	0.29	3.4	0.46
976.0	966.8	FINE TO COARSE SAND, WITH SILT & GRAVEL	130 (SATURATED)	31	0	0.32	3.1	0.49
966.8	965.8	DOLOMITE BEDROCK	146	40	0	0.22	4.6	0.36
BORING NW6-2								
994.2	990.7	FILL MATERIAL	125	32	0	0.31	3.3	0.47
990.7	983.0	FINE TO COARSE SAND, WITH SILT & GRAVEL	135	38	0	0.24	4.2	0.38
983.0	973.0	FINE TO COARSE SAND, WITH SILT & GRAVEL	131	35	0	0.27	3.7	0.43
973.0	962.7	FINE TO COARSE SAND, WITH SILT & GRAVEL	133 (SATURATED)	38	0	0.24	4.2	0.38
962.7	957.2	STRATIFIED SILT AND FINE SAND	128 (SATURATED)	35	0	0.27	3.7	0.43
957.2	953.0	FINE TO COARSE SAND, WITH SILT & GRAVEL	131 (SATURATED)	34	0	0.28	3.5	0.44
953.0	944.2	FINE TO COARSE SAND, WITH SILT & GRAVEL	136 (SATURATED)	40	0	0.22	4.6	0.36
BORING NW6-3								
985.5	982.0	FILL MATERIAL	125	32	0	0.31	3.3	0.47
982.0	980.0	SANDY LEAN CLAY	130	10	4,000	0.70	1.4	0.83
980.0	974.0	STRATIFIED SILT AND FINE SAND	125	34	200	0.28	3.5	0.44
974.0	969.5	STRATIFIED SILT AND FINE SAND	128	35	200	0.27	3.7	0.43
969.5	948.0	FINE SAND WITH SILT	133 (SATURATED)	36	0	0.26	3.9	0.41
948.0	935.5	FINE SAND WITH SILT	135 (SATURATED)	38	0	0.24	4.2	0.38



* EARTH RETENTION DETAIL

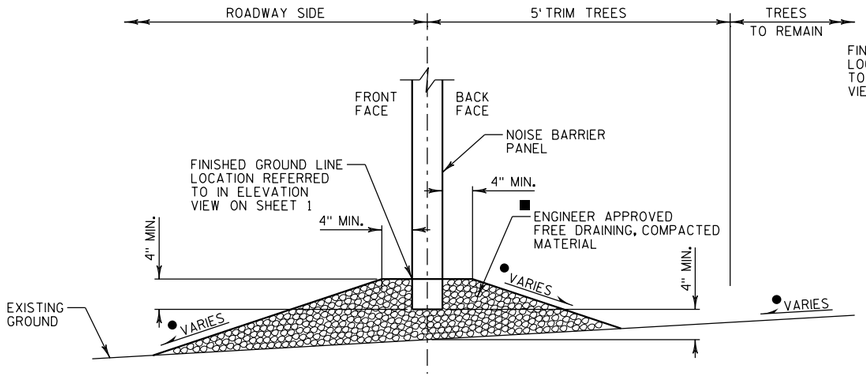
(NOT TO SCALE)

NOTES

DETAILS SHOWN ARE GENERAL GUIDELINES FOR A VARIETY OF APPLICATIONS THAT MAY NOT ALL BE UTILIZED FOR THE SUBJECT WALL. SPECIFIC DETAILS SHALL BE PROVIDED BY THE NOISE BARRIER FABRICATOR AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.

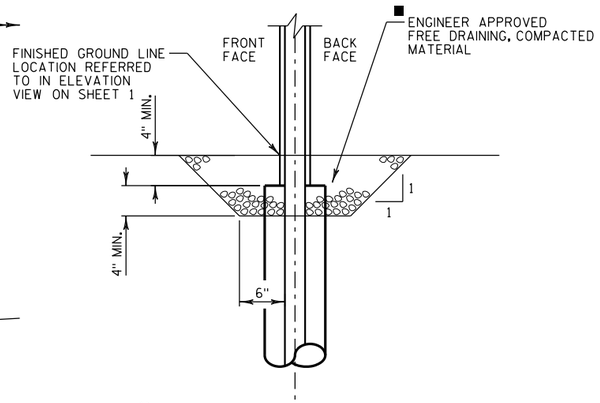
LEGEND

* ALL ITEMS SHOWN ARE INCIDENTAL TO THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE STRUCTURE N-13-4."
- ● SEE ROADWAY CROSS SECTIONS FOR SLOPES
- ■ AT A MINIMUM, MATERIAL AND COMPACTION SHALL MEET THE REQUIREMENTS OF SECTION 312 OF THE STANDARD SPECIFICATIONS.



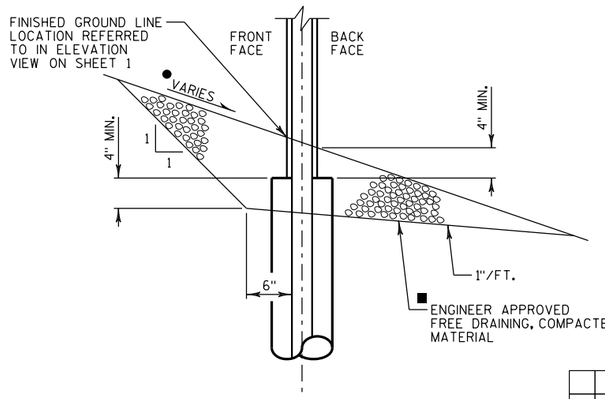
* CLEARING/GRUBBING AND FINISHING FILL SECTION

(NOT TO SCALE)



* LEVEL GRADE BACKFILL & DRAINAGE DETAIL

(NOT TO SCALE)



* SLOPED GRADE BACKFILL & DRAINAGE DETAIL

(NOT TO SCALE)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE N-13-4

DRAWN BY BSS | PLANS CK'D. BH

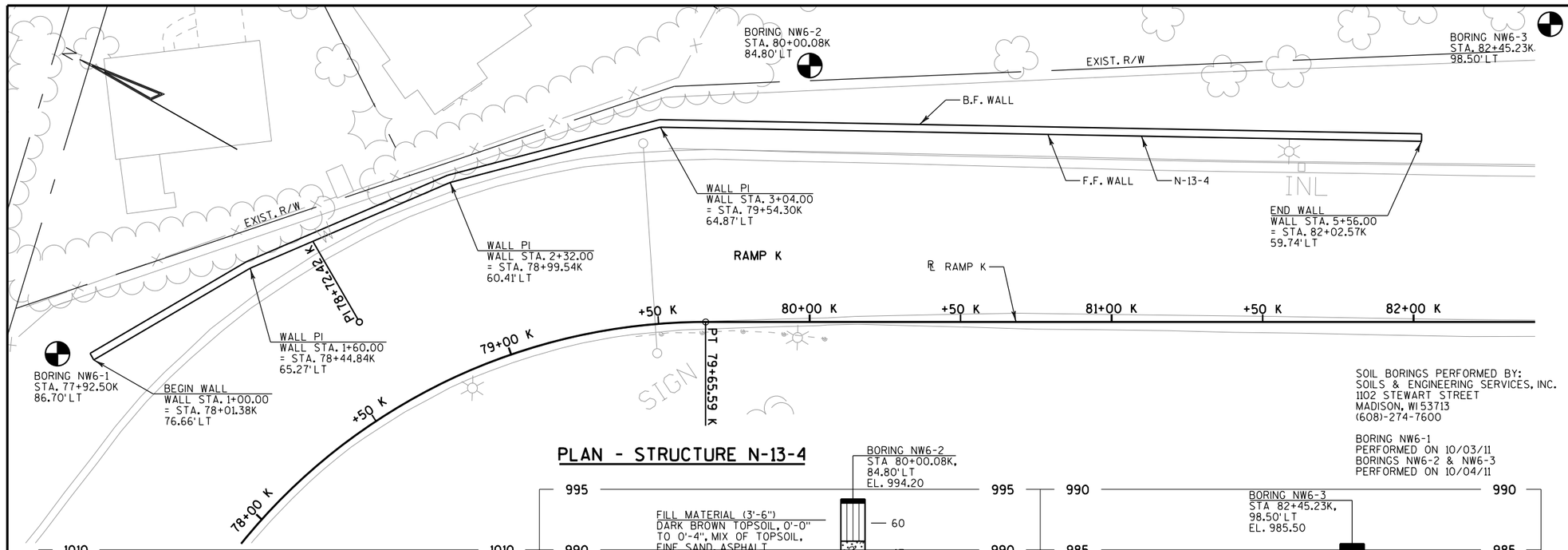
DETAILS & SOIL PARAMETERS

SHEET 3 OF 4

1044

FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\N-13-0004\080103-soilparameters.dgn PLOT DATE : 1/28/2013

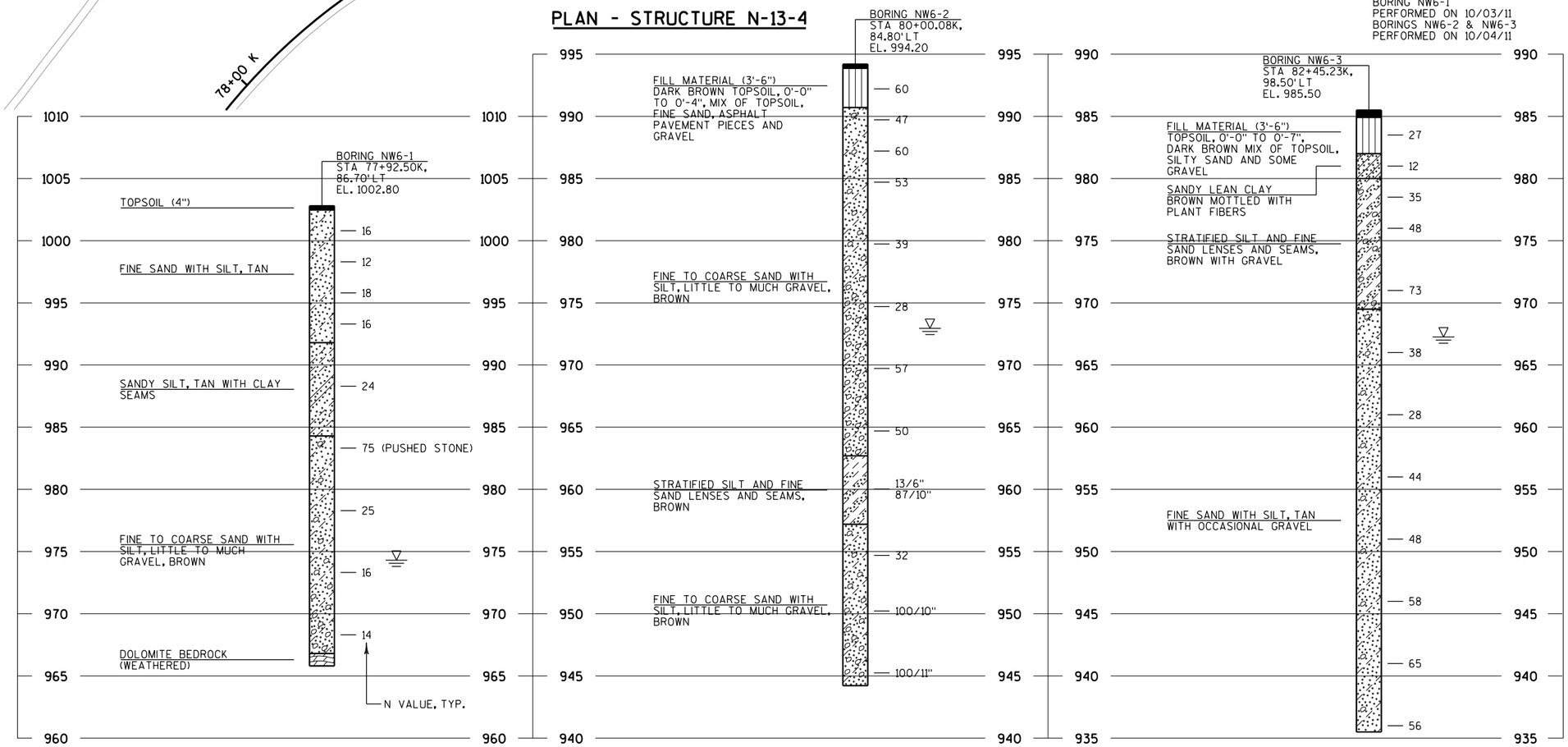
PLOT SCALE : 200.00000 ' / in.



PLAN - STRUCTURE N-13-4

SOIL BORINGS PERFORMED BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713
(608)-274-7600

BORING NW6-1
PERFORMED ON 10/03/11
BORINGS NW6-2 & NW6-3
PERFORMED ON 10/04/11



STATE PROJECT NUMBER

1206-07-77

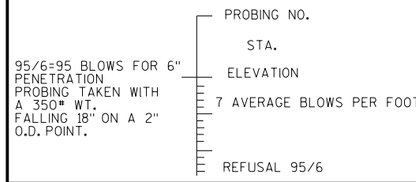
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

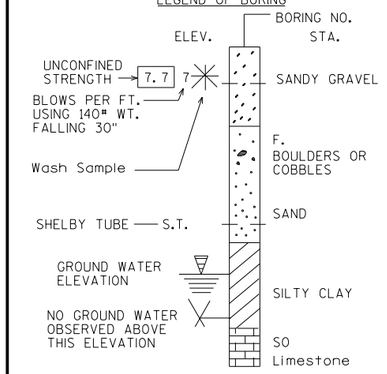
MATERIAL SYMBOLS

TOPSOIL, SAND, GRAVEL, SILT, PEAT, CLAY, SANDSTONE, LIMESTONE, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE N-13-4

DRAWN BY BSS | PLANS CK'D. BH

SUBSURFACE EXPLORATION

SHEET 4 OF 4

1045

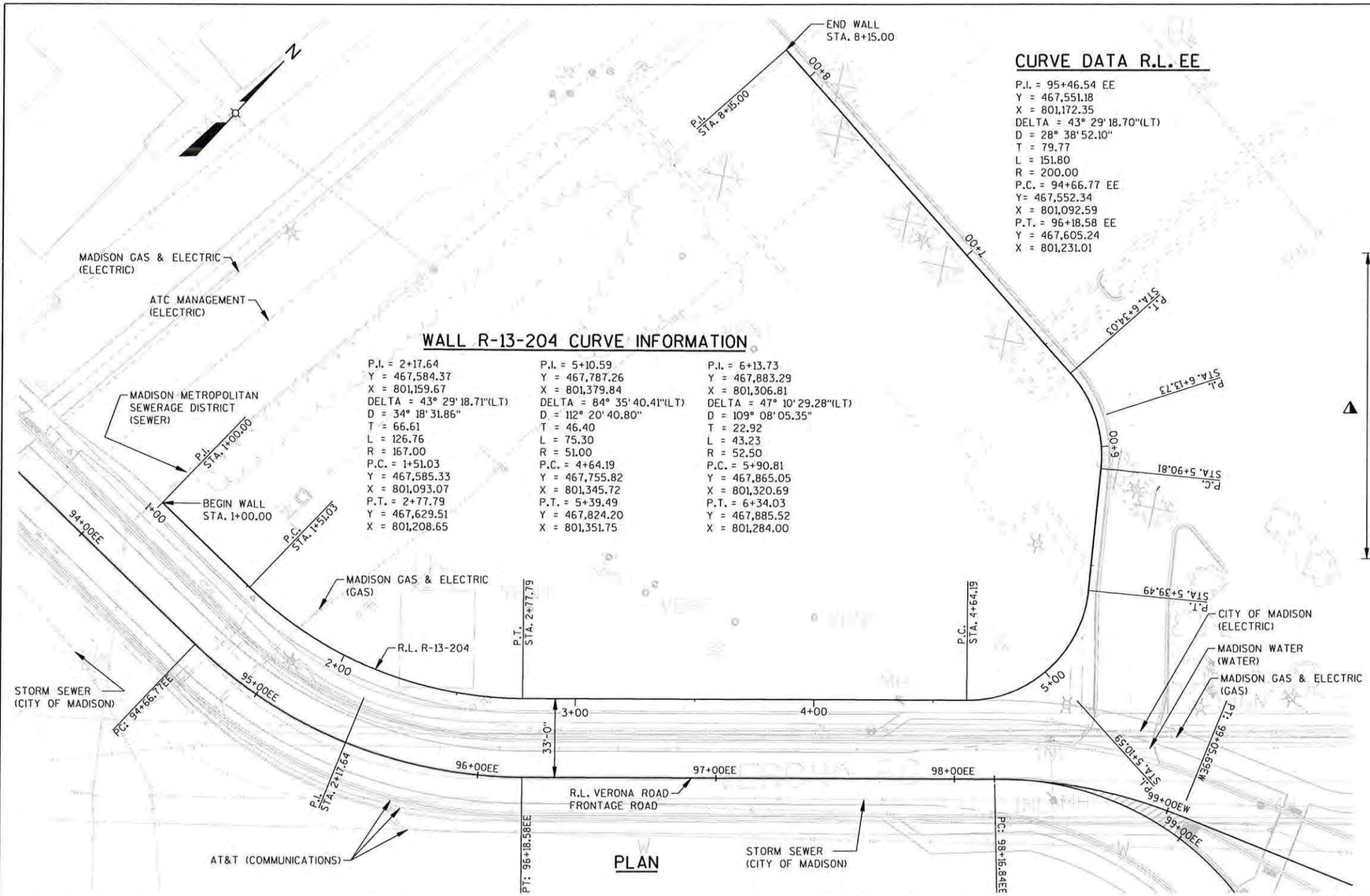
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FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\N-13-0004\080104-subsexpl.dgn PLOT DATE : 1/28/2013

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BATCH PRINT SHEET 1 OF 5



PLAN

CURVE DATA R.L. EE

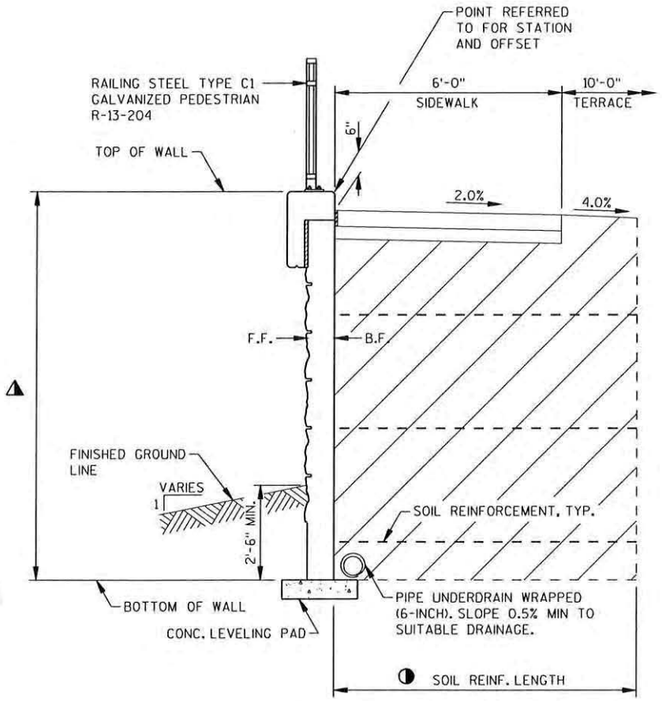
P.I. = 95+46.54 EE
Y = 467,551.18
X = 801,172.35
DELTA = 43° 29' 18.70"(LT)
D = 28° 38' 52.10"
T = 79.77
L = 151.80
R = 200.00
P.C. = 94+66.77 EE
Y= 467,552.34
X = 801,092.59
P.T. = 96+18.58 EE
Y = 467,605.24
X = 801,231.01

WALL R-13-204 CURVE INFORMATION

P.I. = 2+17.64
Y = 467,584.37
X = 801,159.67
DELTA = 43° 29' 18.71"(LT)
D = 34° 18' 31.86"
T = 66.61
L = 126.76
R = 167.00
P.C. = 1+51.03
Y = 467,585.33
X = 801,093.07
P.T. = 2+77.79
Y = 467,629.51
X = 801,208.65

P.I. = 5+10.59
Y = 467,787.26
X = 801,379.84
DELTA = 84° 35' 40.41"(LT)
D = 112° 20' 40.80"
T = 46.40
L = 75.30
R = 51.00
P.C. = 4+64.19
Y = 467,755.82
X = 801,345.72
P.T. = 5+39.49
Y = 467,824.20
X = 801,351.75

P.I. = 6+13.73
Y = 467,883.29
X = 801,306.81
DELTA = 47° 10' 29.28"(LT)
D = 109° 08' 05.35"
T = 22.92
L = 43.23
R = 52.50
P.C. = 5+90.81
Y = 467,865.05
X = 801,320.69
P.T. = 6+34.03
Y = 467,885.52
X = 801,284.00



TYPICAL SECTION THRU WALL

▲ PAY LIMIT FOR "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD"

FIVE-FOOT WIDE PANELS REQUIRED DUE TO WALL CURVATURE.

◑ MINIMUM LENGTH OF MSE WALL REINFORCING STRIPS MUST BE 70% THE TOTAL WALL HEIGHT (EXPOSED HEIGHT PLUS EMBEDMENT DEPTH) OR 8.0 FEET, WHICHEVER IS GREATER. SOIL REINFORCEMENT MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENT AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS PLAN.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED IN FRONT OF WALL AS SHOWN IN THE ROADWAY PLANS.

DESIGN RETAINING WALL FOR A LIVELOAD SURCHARGE OF 240 PSF.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

B.F. = BACK FACE F.F. = FRONT FACE

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

A NAME PLATE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. CENTER NAME PLATE ON COPING.

A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS STRUCTURE AND IS AVAILABLE UPON REQUEST FROM WISDOT'S SW REGION OFFICE.

SEE STORM SEWER PLANS FOR OUTFALL LOCATIONS AND ELEVATIONS.

WALL EXCAVATION IS ANTICIPATED TO CONTAIN PETROLEUM-CONTAMINATED SOIL. SEE ROADWAY PLANS FOR ADDITIONAL DETAILS.

THE PLAN QUANTITY FOR "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 2'-6" BELOW FINISHED GRADE.

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY - COPING ——— f'c = 3,500 PSI

HIGH-STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 ——— fy = 60,000 PSI

ALLOWABLE WALL SYSTEMS

1. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD

LIST OF DRAWINGS

1. GENERAL PLAN
2. WALL DETAILS & ELEVATIONS
3. WALL & AESTHETIC DETAILS
4. RAILING DETAILS
5. SUBSURFACE EXPLORATION

WISCONSIN
ERIC T. PRICE
E-39027
MADISON
WI
PROFESSIONAL ENGINEER
12/5/12

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
BILL DREHER (608) 266-8489

CONSULTANT:
ERIC PRICE (608) 828-8181

SW REGION:
MARK VESPERMAN (608) 246-7548

STATE PROJECT NUMBER

1206-07-77

NO.	DATE	REVISION	BY

AECOM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher 2/19/13
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-13-204

RETAINING WALL AROUND DETENTION BASIN

COUNTY	DANE	~~TOWN~~/CITY/~~VILLAGE~~	MADISON

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGNS SPECIFICATIONS

DESIGNED BY	MAH	DESIGN CK'D.	MSK	DRAWN BY	MJK	PLANS CK'D.	ETP

GENERAL PLAN

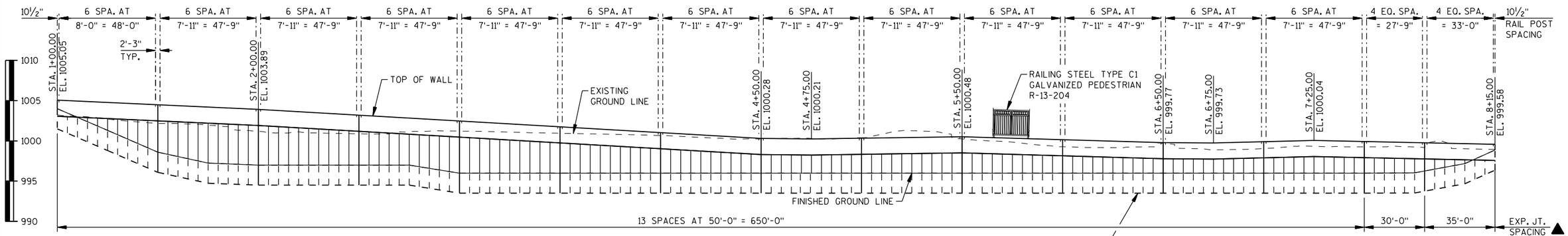
SHEET 1 OF 5
1046

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BATCH PRINT SHEET 2 OF 5

STATE PROJECT NUMBER
1206-07-77



ELEVATION

SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS — BORING W41-1	UNIT WEIGHT (pcf)	FRICTION ANGLE (DEGREES)	COHESION (psf)
EL.997.0 - EL. 996.9 FILL MATERIAL - FINE TO MEDIUM SAND WITH GRAVEL	125	33	0
EL.996.9 - EL. 986.8 LEAN CLAY (CL)	125	0	900
EL.986.8 - EL. 958.8 FINE SAND (SP)	112	38	0
STRATUM LOCATIONS & SOIL DESCRIPTIONS — BORING W41-2	**UNIT WEIGHT (pcf)**	**FRICTION ANGLE (DEGREES)**	**COHESION (psf)**
EL. 998.3 - EL. 997.0 FILL MATERIAL - SANDY CLAY WITH GRAVEL	130	11	0
EL. 997.0 - EL. 987.7 LEAN CLAY (CL)	125	0	1200
EL.987.7 - EL. 959.7 FINE SAND (SP)	112	31	0
RETAINED SOIL EL. 993.5- EL. 999.3 ‡	120	30	0
STRATUM LOCATIONS & SOIL DESCRIPTIONS — BORING W41-3	**UNIT WEIGHT (pcf)**	**FRICTION ANGLE (DEGREES)**	**COHESION (psf)**
EL. 998.0 - EL. 994.3 FILL MATERIAL - SILTY FINE SAND	125	29	0
EL. 994.3 - EL. 990.0 LEAN CLAY (CL)	125	0	1130
EL. 990.0 - EL. 977.9 CLAYEY FINE SAND (SP)	122	33	0
EL.977.9 - EL. 959.9 FINE SAND (SP)	112	30	0
RETAINED SOIL EL. 993.5 - EL. 999.9‡	120	30	0
STRATUM LOCATIONS & SOIL DESCRIPTIONS — BORING W41-4	**UNIT WEIGHT (pcf)**	**FRICTION ANGLE (DEGREES)**	**COHESION (psf)**
EL.1000.0 - EL. 997.0 TOP SOIL	134	0	4200
EL. 997.0 - EL. 992.0 LEAN CLAY (CL)	125	0	1500
EL. 992.0 - EL. 975.5 CLAYEY FINE SAND (SP)	122	30	0
EL.975.5 - EL. 960.0 FINE SAND (SP)	112	30	0
RETAINED SOIL EL. 993.5 - EL. 999.8 ‡	120	30	0
STRATUM LOCATIONS & SOIL DESCRIPTIONS — BORING W41-5	**UNIT WEIGHT (pcf)**	**FRICTION ANGLE (DEGREES)**	**COHESION (psf)**
EL.1000.9 - EL. 1000.1 TOP SOIL	134	0	1000
EL. 1000.1 - EL. 993.8 FINE SAND WITH TRACE TO SOME GRAVEL (SP)	115	34	0
EL. 993.8 - EL. 992.9 LEAN CLAY (CL)	125	0	400
EL. 992.9 - EL. 962.4 CLAYEY FINE SAND WITH SOME TO MUCH GRAVEL (SC/CL)	122	40	0
EL. 962.4 - EL. 960.9 SILT (ML)	140	45	0
RETAINED SOIL EL. 994.5 - EL. 1002.8 ‡	120	30	0
STRATUM LOCATIONS & SOIL DESCRIPTIONS — BORING W41-6	**UNIT WEIGHT (pcf)**	**FRICTION ANGLE (DEGREES)**	**COHESION (psf)**
EL.1001.9 - EL. 1001.7 TOP SOIL	134	0	1000
EL. 1001.7 - EL. 998.9 LEAN CLAY (CL)	125	0	1700
EL. 998.9 - EL. 996.4 SANDY LEAN CLAY WITH TRACE TO LITTLE GRAVEL (CL)	134	0	1700
EL. 996.4 - EL. 987.4 LEAN CLAY (CL)	125	0	800
EL. 987.4 - EL. 980.9 CLAYEY FINE SAND (SC)	122	29	0
EL. 980.9 - EL. 974.9 LEAN CLAY (CL)	131	0	1500
EL. 974.9 - EL. 961.9 FINE SAND (SP)	112	35	0
RETAINED SOIL EL. 994.7 - EL. 1003.7 ‡	120	30	0

‡ DESIGN WALL FOR THESE VALUES

TABLE OF ELEVATIONS

WALL STATION	MAINLINE STATION R.L. 'EE'	MAINLINE OFFSET	FINISHED GROUND ELEVATION	TOP OF WALL ELEVATION
1+00.00	94+15.74 EE	33.00' LT	1004.00	1005.05
1+25.00	94+40.74 EE	33.00' LT	1001.30	1004.76
1+50.00	94+65.74 EE	33.00' LT	998.60	1004.47
1+75.00	94+90.60 EE	33.00' LT	997.23	1004.18
2+00.00	95+15.45 EE	33.00' LT	997.00	1003.89
2+25.00	95+40.30 EE	33.00' LT	997.00	1003.54
2+50.00	95+65.15 EE	33.00' LT	997.00	1003.18
2+75.00	95+90.00 EE	33.00' LT	997.00	1002.82
3+00.00	96+14.98 EE	33.00' LT	996.00	1002.45
3+25.00	96+39.98 EE	33.00' LT	996.00	1002.09
3+50.00	96+64.98 EE	33.00' LT	996.00	1001.73
3+75.00	96+89.98 EE	33.00' LT	996.00	1001.37
4+00.00	97+14.98 EE	33.00' LT	996.00	1001.01
4+25.00	97+39.98 EE	33.00' LT	996.00	1000.65
4+50.00	97+64.98 EE	33.00' LT	996.00	1000.28
4+75.00	97+89.77 EE	36.20' LT	996.00	1000.21
5+00.00	N/A	N/A	996.00	1000.30
5+25.00	N/A	N/A	996.00	1000.39
5+50.00	N/A	N/A	996.00	1000.48
5+75.00	N/A	N/A	996.00	1000.30
6+00.00	N/A	N/A	996.00	1000.12
6+25.00	N/A	N/A	996.00	999.95
6+50.00	N/A	N/A	996.00	999.77
6+75.00	N/A	N/A	996.00	999.73
7+00.00	N/A	N/A	996.00	999.89
7+25.00	N/A	N/A	996.00	1000.04
7+50.00	N/A	N/A	996.00	999.91
7+75.00	N/A	N/A	996.04	999.78
8+00.00	N/A	N/A	997.17	999.66
8+15.00	N/A	N/A	998.87	999.58

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6
517.1010.S	CONCRETE STAINING R-13-204	SF	5,650
517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-13-204	SF	3,015
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	730
SPV.0105.16	RAILING STEEL TYPE C1 GALVANIZED R-13-204	LS	1
* SPV.0165.02	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD	SF	5,160
	NON-BID ITEMS		
	FILLER	SIZE	3/4"
	EXPANDED POLYSTYRENE	SIZE	1"

* FIVE-FOOT WIDE PANELS REQUIRED DUE TO WALL CURVATURE.

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS					
WALL HEIGHT (FEET)	6.3	6.9	6.8	8.8	9.5
EXPOSED WALL HEIGHT (FEET)	3.8	4.4	4.3	6.3	7.0
MINIMUM LENGTH OF REINFORCEMENT/WALL WIDTH	8.0	8.0	8.0	8.0	8.0
WALL STATION	6+49.7	5+60.3	4+44.0	2+42.2	1+72.4
BORING USED	BOR W41-2	BOR W41-3	BOR W41-4	BOR W41-5	BOR W41-6
CAPACITY TO DEMAND RATIO (CDR)					
SLIDING (CDR > 1.0)	1.7	1.7	1.6	1.4	1.3
ECCENTRICITY (CDR > 1.0)	3.0	3.0	2.7	1.9	1.7
BEARING (CDR > 1.0)	1.8	1.8	1.5	1.2	1.0
SETTLEMENT (INCHES)	0.9	0.9	1.0	0.6	1.5
GLOBAL STABILITY (CFD > 1.0)	——	——	——	——	1.1
FACTORED BEARING RESISTANCE (PSF)	2,300	2,300	2,300	2,300	2,300

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-204

DRAWN BY MJK | PLANS CK'D. ETP

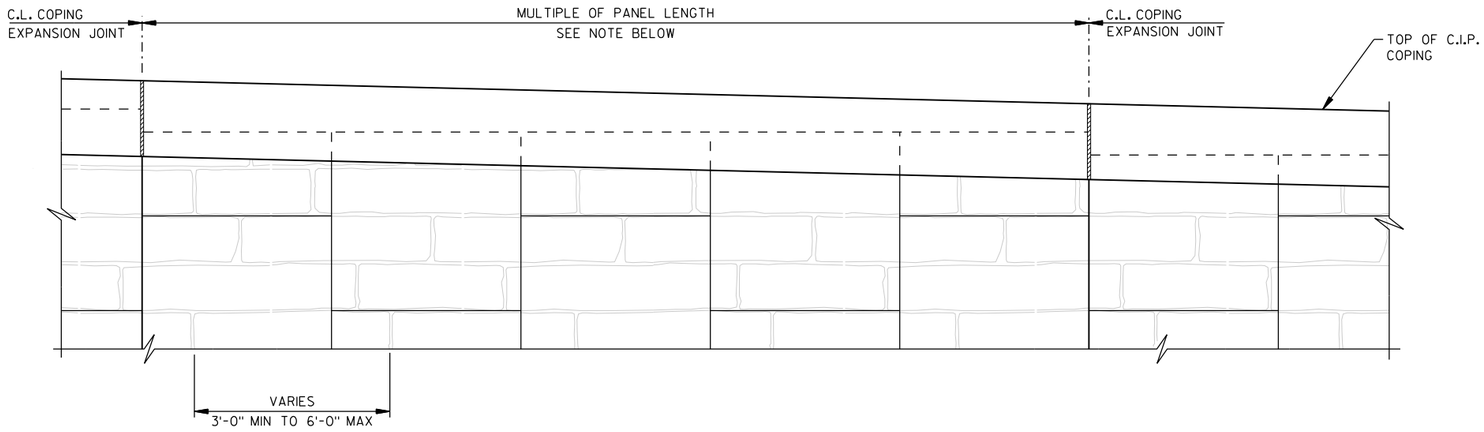
WALL DETAILS & ELEVATIONS

SHEET 2 OF 5
1047

8

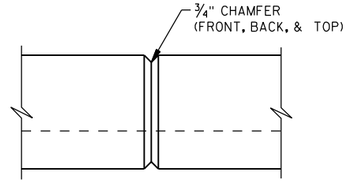
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BATCH PRINT SHEET 3 OF 5



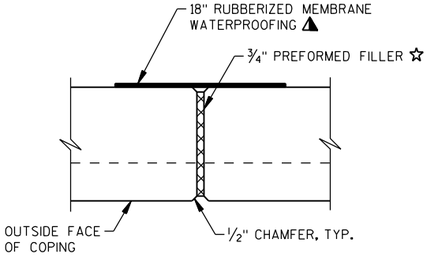
NOTE: ALL JOINTS SHALL BE LOCATED AS SHOWN ON SHEET 2 AND MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

PARTIAL WALL ELEVATION
(LOOKING AT F.F. OF WALL)



COPING CONTRACTION JOINT
DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'-0".

CONTRACTION JOINT SHALL BE OFFSET A MINIMUM OF 2'-0" FROM PROPOSED RAIL POST LOCATIONS.

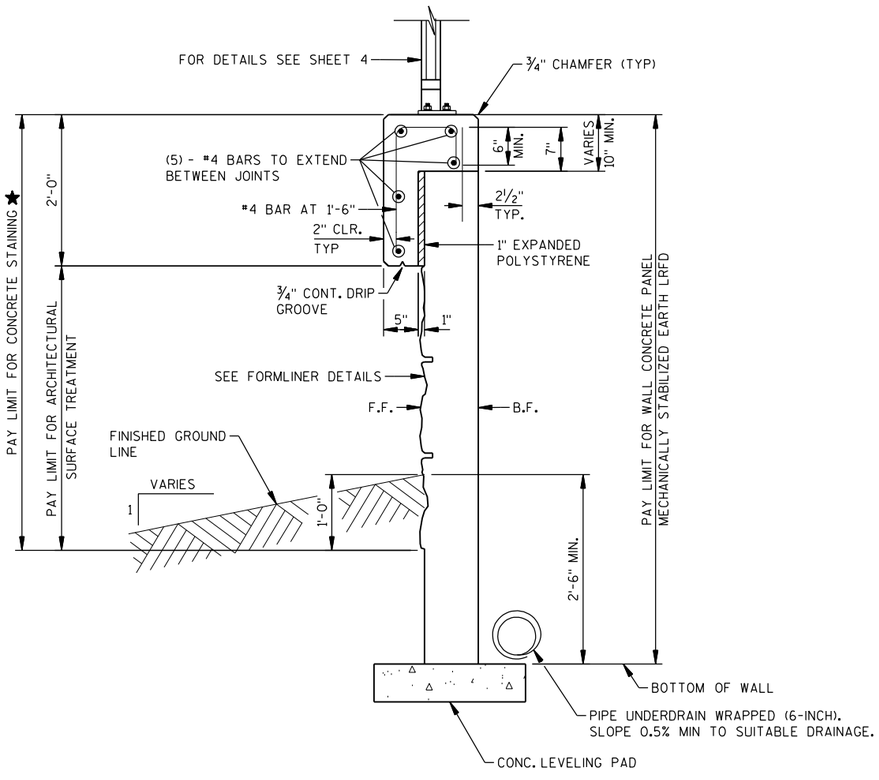


COPING EXPANSION JOINT
DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'-0".

CENTER FILLER AND JOINT OVER WALL JOINTS.
PLACE JOINTS VERTICAL.

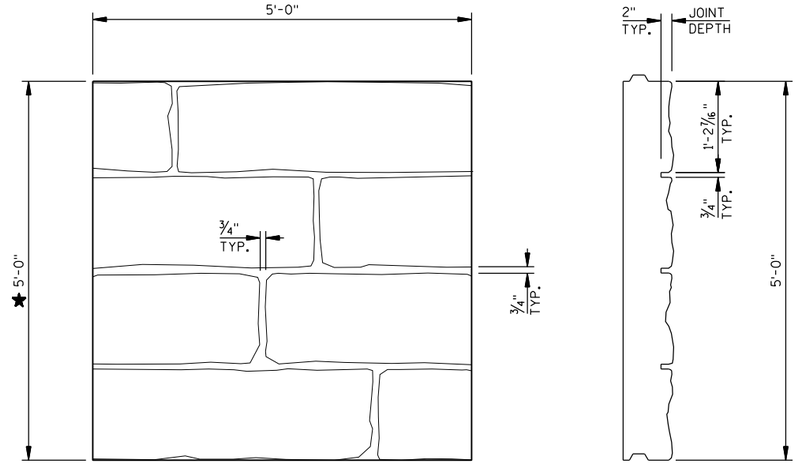
⚠ RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING (OR TOP OF SIDEWALK) TO 6" BELOW TOP OF PANELS.

☆ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

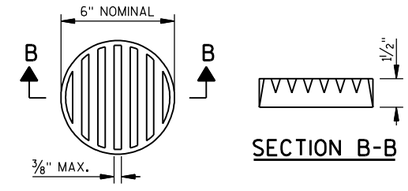


CONCRETE COPING DETAIL
(CAST-IN-PLACE)

★ CONCRETE STAINING TO INCLUDE TOP, BOTTOM, AND BACK OF COPING.



FORMLINER DETAILS
★ DIMENSION MAY BE INCREASED WITH APPROVAL FROM THE STRUCTURES DESIGN SECTION.



RODENT SHIELD DETAIL
DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH SHEET METAL SCREWS.

NOTES
ALL STONE EDGES ADJACENT TO HORIZONTAL PANEL JOINTS SHALL BE CUT STONE TEXTURE.

ALL STONE EDGES ADJACENT TO VERTICAL PANEL JOINTS SHALL BE FLUSH CUT.

AVERAGE RELIEF IS ¾" FOR THE STONES WITH A MAXIMUM RELIEF OF 2" FOR THE JOINTS.

FORMLINER COURSING SHALL BE LEVEL AND CONTINUOUS ACROSS VERTICAL PANEL JOINTS.

ALL PANELS ARE TO BE STAINED FEDERAL COLOR NO. 33448.

ALL EXPOSED SURFACES OF FORMLINED BLOCKS TO BE SPLIT FACE INCLUDING FACES, CORNERS, AND EDGES.

THE CAST-IN-PLACE CONCRETE COPING SHALL BE STAINED FEDERAL COLOR NO. 20122.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-204

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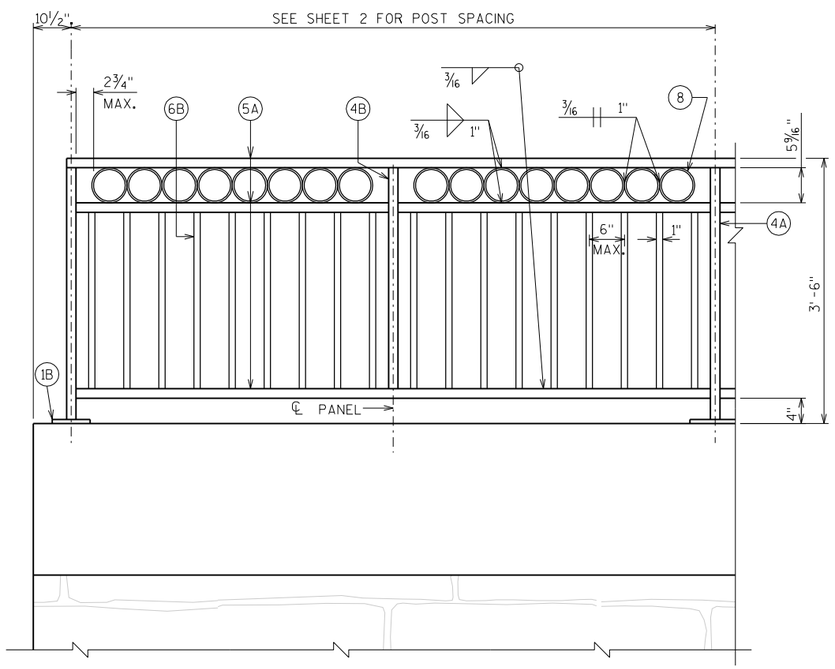
WALL & AESTHETIC DETAILS

SHEET 3 OF 5
1048

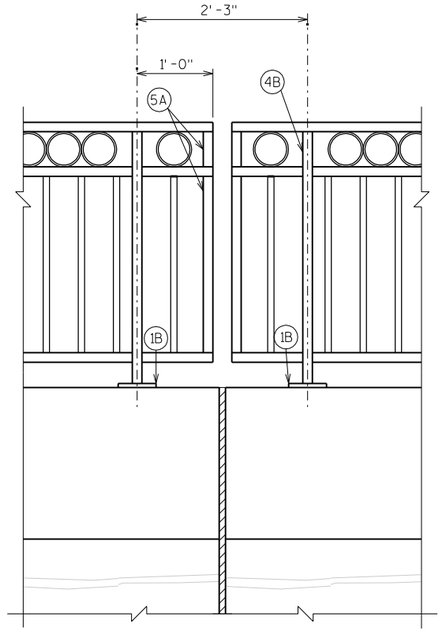
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BATCH PRINT SHEET 4 OF 5



PARTIAL ELEVATION OF RAILING



AT EXPANSION JOINTS

LEGEND

(1B) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES.

(2B) ¼" X 5" X 9" ANCHOR PLATE WITH 11/16 " ϕ HOLES FOR THR'D. RODS NO. 3.

(3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), ⅝" ϕ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS.)

(4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1B & NO. 4B. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

(6B) BAR 1" X 1½" PICKETS. WELD TO NO. 5A. (SPACE AT 6" MAX. ℄ TO ℄ SPACING). PLACE VERTICAL.

(8) 5"ϕ SCH. 40 PIPE (5⅝" O.D.) 1½" LONG SLICES. WELD TO NO. 5A

(9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.)

NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C1 GALVANIZED R-13-204", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN AND FABRICATED TO FIT THE CURVE.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1B, 2B, 6B, 8, 9A AND NO. 10A SHALL CONFORM TO A.S.T.M. A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO A.S.T.M. A500 GRADE B (NO. 4 AND NO. 5).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1B, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

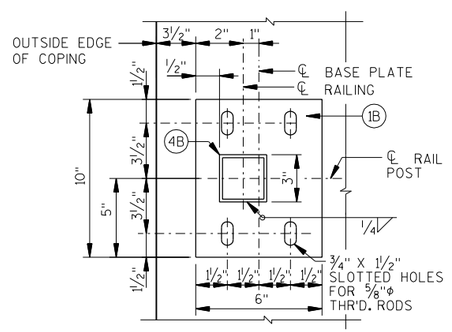
ALL JOINTS AND RECESSES IN CONCRETE COPING ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE "BRIDGE SPECIAL PROVISIONS". THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 27038.

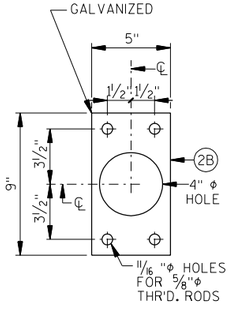
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

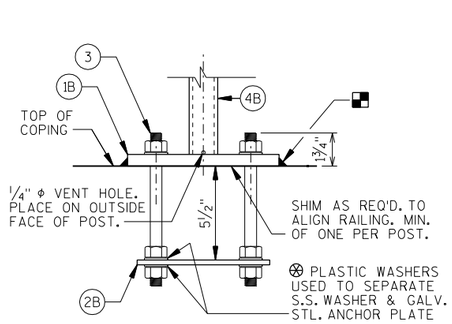
TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



TYPICAL RAIL POST BASE PLATE

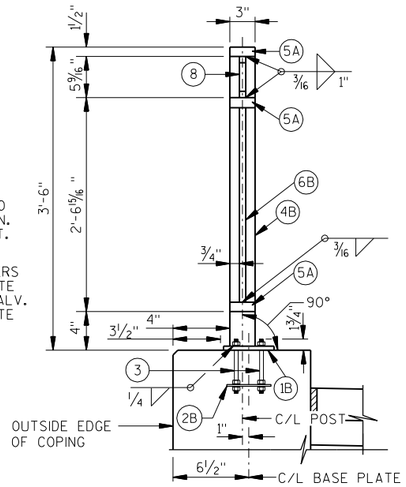


ANCHOR PLATE

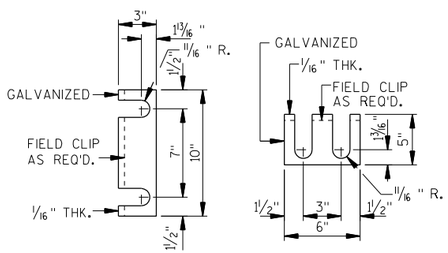


ANCHORAGE FOR RAIL POSTS

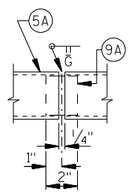
NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



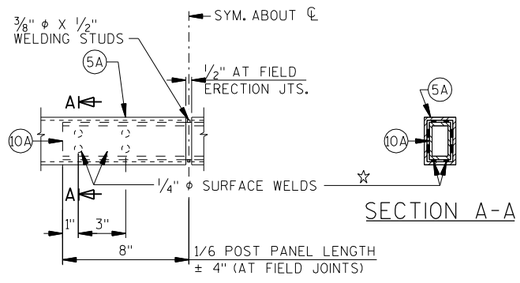
SECTION THRU RAILING



RAIL POST SHIM DETAIL
(2 SETS PER POST)



SHOP RAIL SPLICE DETAIL
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION A-A

FIELD ERECTION JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-204

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RAILING DETAILS

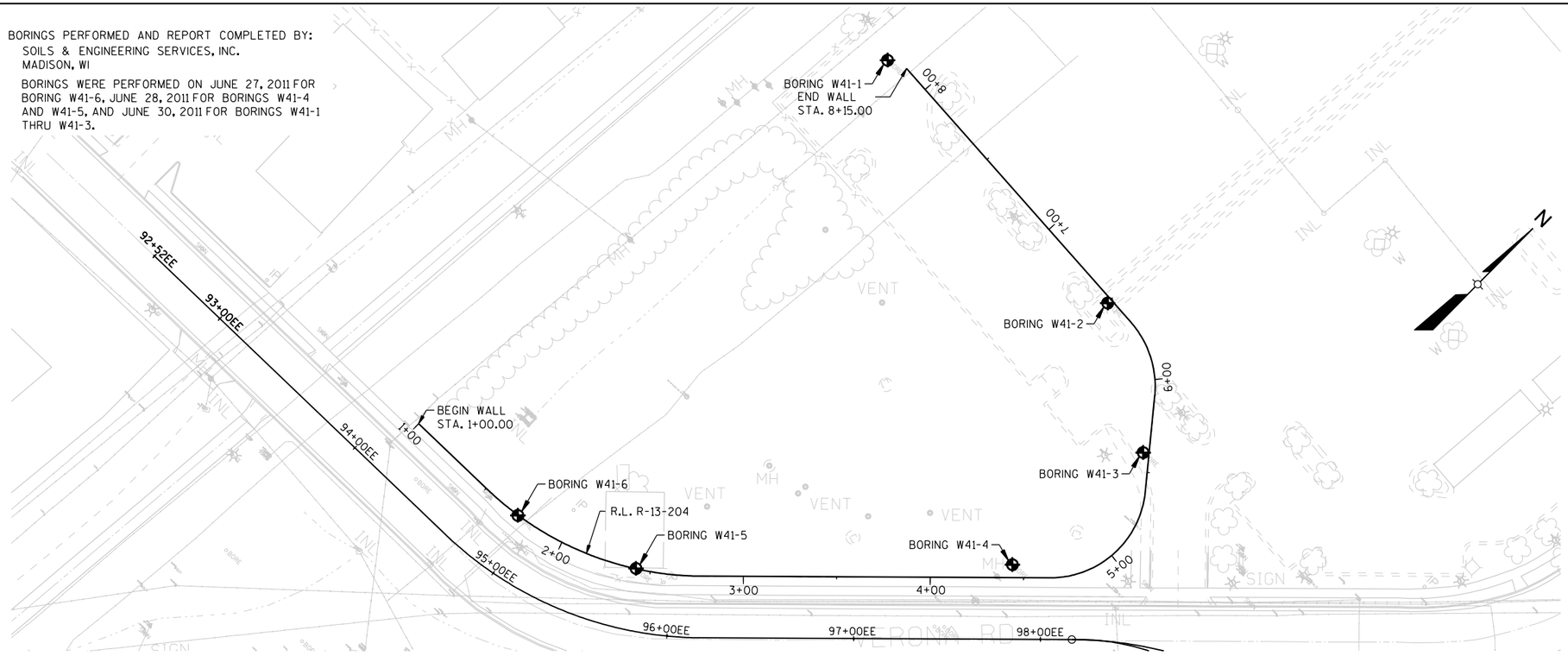
SHEET 4 OF 5
1049

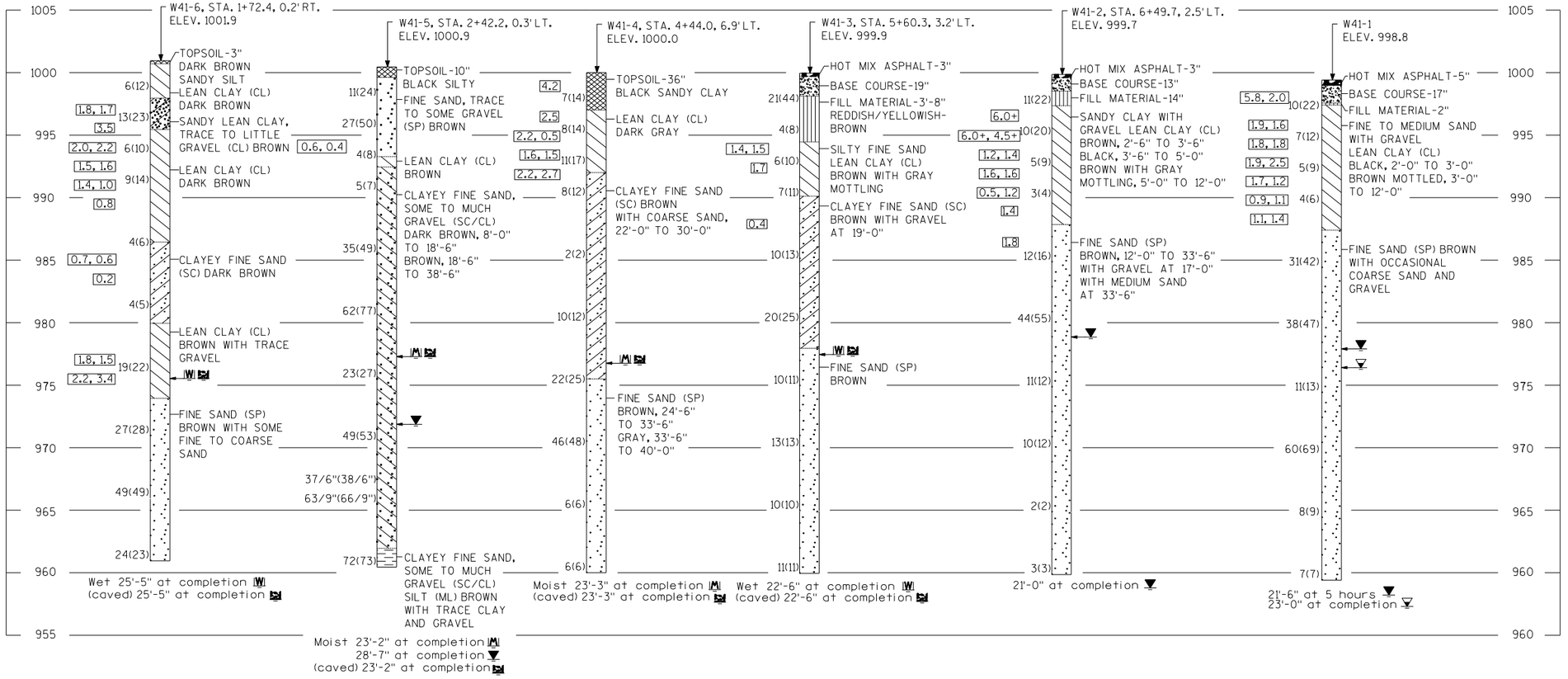
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8

BORINGS PERFORMED AND REPORT COMPLETED BY:
SOILS & ENGINEERING SERVICES, INC.
MADISON, WI

BORINGS WERE PERFORMED ON JUNE 27, 2011 FOR BORING W41-6, JUNE 28, 2011 FOR BORINGS W41-4 AND W41-5, AND JUNE 30, 2011 FOR BORINGS W41-1 THRU W41-3.





STATE PROJECT NUMBER

1206-07-77

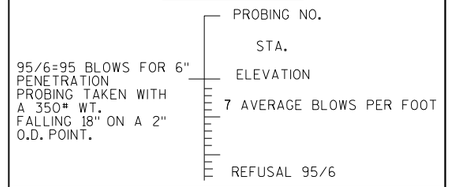
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

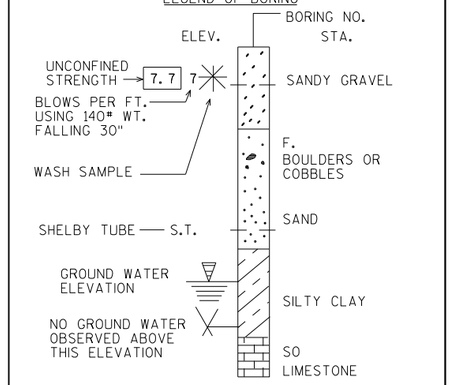
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-204

DRAWN BY MJK | PLANS CK'D. ETP

SUBSURFACE EXPLORATION

SHEET 5 OF 5
1050

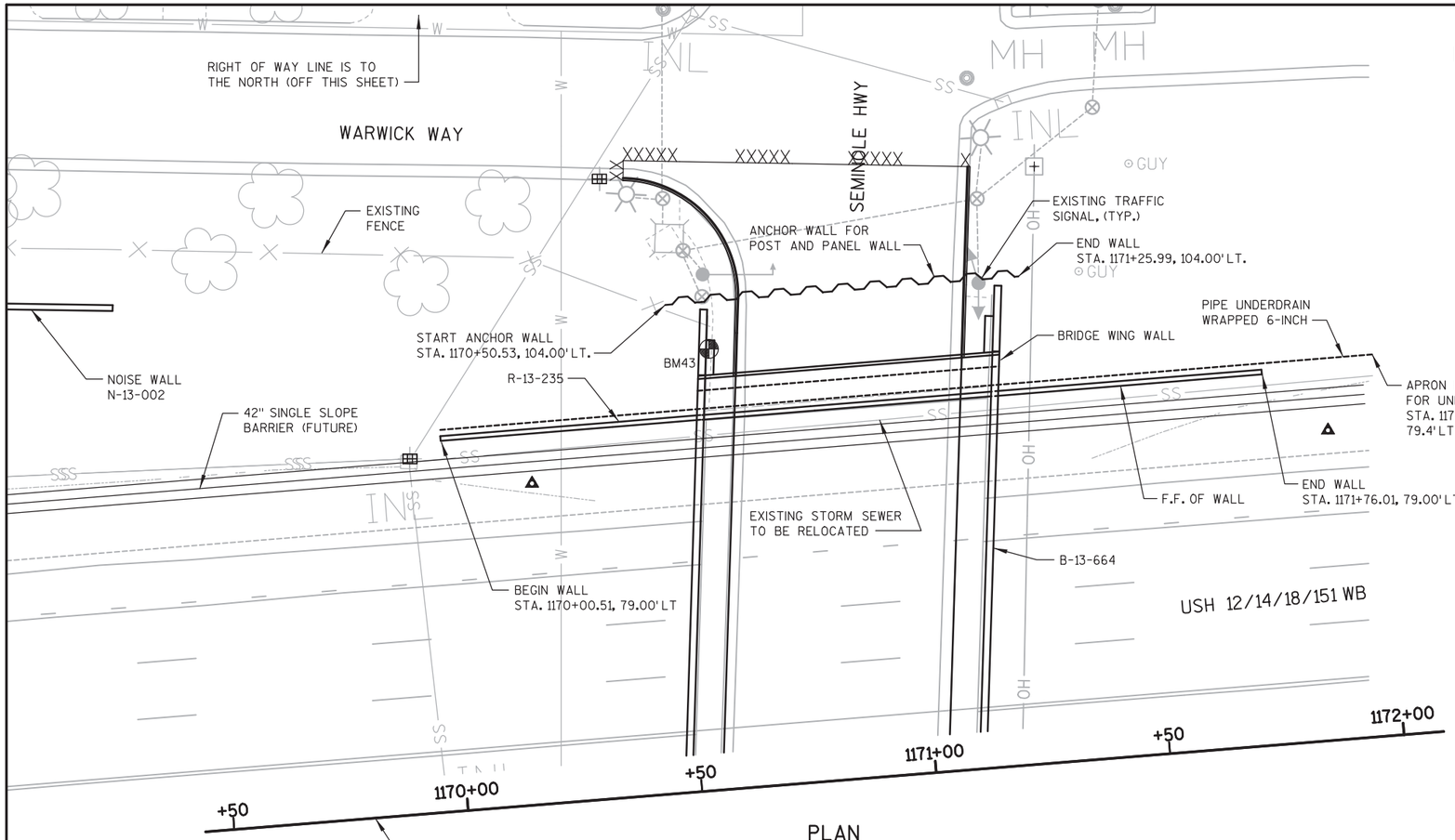
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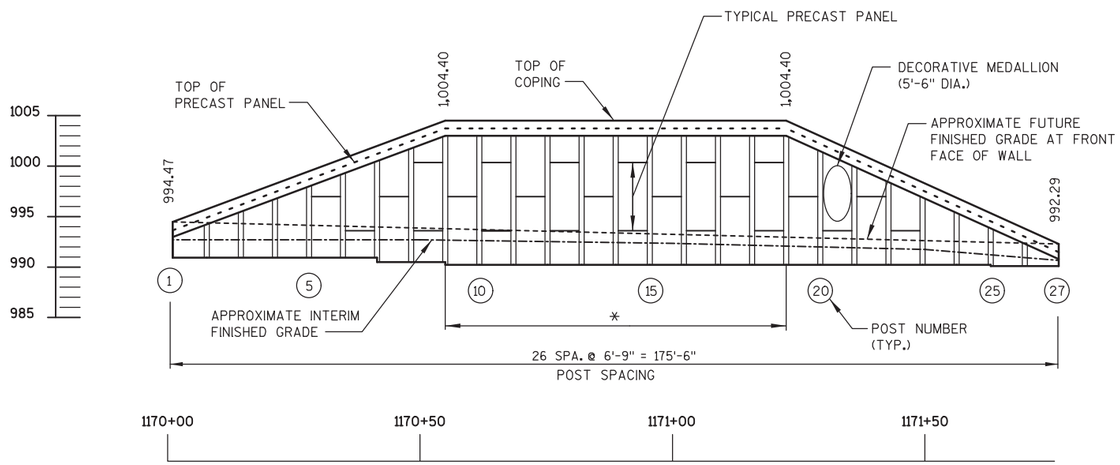
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PLAN

POST AND PANEL RETAINING WALL



ELEVATION

(LOOKING NORTH AT FRONT FACE OF WALL)

* POSTS 9 THROUGH 19 ARE TIED BACK TO A SHEET PILE ANCHOR WALL. REMAINING POSTS ARE CANTILEVERED.

BENCHMARKS

NO.	STATION	DESCRIPTION	ELEV.
BM42	1170+10 111' RT	CHISELED SQ. SW COR. TFSB CONC. PAD IN SW QUAD.	1012.35
BM43	1170+59 94' LT	CAP @ TOP OF PARAPET NW QUAD B-13-264.	1014.27
BM44	1167+31 199' LT	RR SPIKE LT POLE #20G1-C13 APPROX. 350' W OF BRIDGE ON WARWICK WAY.	1011.54

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS, STATIONS, AND OFFSETS ARE TO THE WORKING LINE (FRONT FACE AT BASE OF WALL/TOP OF FOOTING).

STRUCTURAL STEEL POSTS SHALL BE ASTM A709 GRADE 50.

BAR STEEL REINF. SHALL BE EMBEDDED 2" CL. UNLESS OTHERWISE NOTED.

EXCAVATE TO TOP OF FOOTING ELEVATION PRIOR TO EARTH DRILLING.

BID ITEM "EXCAVATION FOR STRUCTURES RETAINING WALLS R-13-235" SHALL INCLUDE ALL EXCAVATION REQUIRED TO CONSTRUCT RETAINING WALL. PLACE STRUCTURE BACKFILL BEHIND THE WALL TO THE LIMITS SHOWN.

ALL STRUCTURAL STEEL POSTS SHALL RECEIVE AT MINIMUM A PRIME COAT OF ZINC-RICH PAINT. ADDITIONALLY THE TOP PORTION OF THE POSTS FROM TOP OF POSTS DOWN TO 1-FT. BELOW THE TOP OF FOOTING ELEVATION SHALL RECEIVE A TOTAL OF THREE COATS OF PAINT PER SECTION 517 OF THE STANDARD SPECIFICATIONS.

WALLS R-13-235 AND R-13-236 WILL BE CONSTRUCTED CONCURRENTLY WITH BRIDGE B-13-664. CONSTRUCTION SEQUENCE FOR THE ANCHOR WALL AND TIE RODS MUST BE COORDINATED WITH ABUTMENT CONSTRUCTION.

FINISHED GRADE AT FRONT FACE OF WALL VARIES FROM INTERIM CONDITION TO FINAL CONDITION. WALL IS DESIGNED FOR GRADE IN FRONT TO BE AT TOP OF FOOTING.

THE WALL BETWEEN POSTS 9 & 19 HAS BEEN DESIGNED TO RESIST THE VERTICAL AND LATERAL EARTH PRESSURES BEHIND THE BRIDGE ABUTMENT AND A 240 PSF LIVE LOAD SURCHARGE. REMAINDER OF WALL HAS BEEN DESIGNED FOR A 100 PSF LIVE LOAD SURCHARGE.

SHEET PILE ANCHOR WALL IS DESIGNED TO RETAIN THE SOIL BEHIND IT. DO NOT EXCAVATE IN FRONT OF WALL TO A DEPTH OF MORE THAN 1-FOOT BELOW THE TIE ROD ELEVATION.

LIST OF DRAWINGS

1. GENERAL PLAN
2. WALL DETAILS - 1
3. WALL DETAILS - 2
4. WALL LAYOUT DATA
5. SUBSURFACE EXPLORATION

DESIGN DATA

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY, PRECAST PANELS	f'c = 4,000 psi
CONCRETE MASONRY, ALL OTHERS	f'c = 3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 psi
HIGH STRENGTH STRUCTURAL STEEL	fy = 50,000 psi

RETAINING SOIL PROPERTIES

UNIT WEIGHT = 120 PCF
ANGLE OF INTERNAL FRICTION = 30°

BRIDGE OFFICE CONTACT:
BILL DREHER (608) 266-8489

DESIGN CONSULTANT CONTACT:
BRETT OFTEDAHL (608) 251-4843

WISCONSIN
DAVID D. RICE
E-24137
MADISON
WI
PROFESSIONAL ENGINEER
2/25/13

STATE PROJECT NUMBER

1206-07-77

NO.	DATE	REVISION	BY

STRAND ASSOCIATES
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR — CHIEF STRUCTURES DESIGN ENGINEER — 02/26/13 DATE

STRUCTURE R-13-235

USH 12/14/18/151 @ SEMINOLE HWY

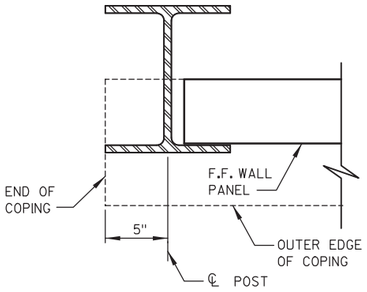
COUNTY	DANE
~~TOWN~~/CITY/~~VILLAGE~~	MADISON
DESIGN SPEC.	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	RRD	DESIGN CK'D.	DDR	DRAWN BY	DTH	PLANS CK'D.	BMO

GENERAL PLAN

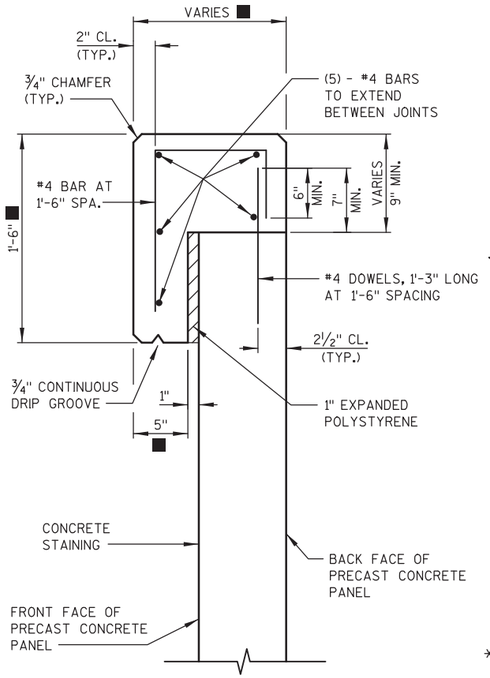
SHEET 1 OF 6
1051

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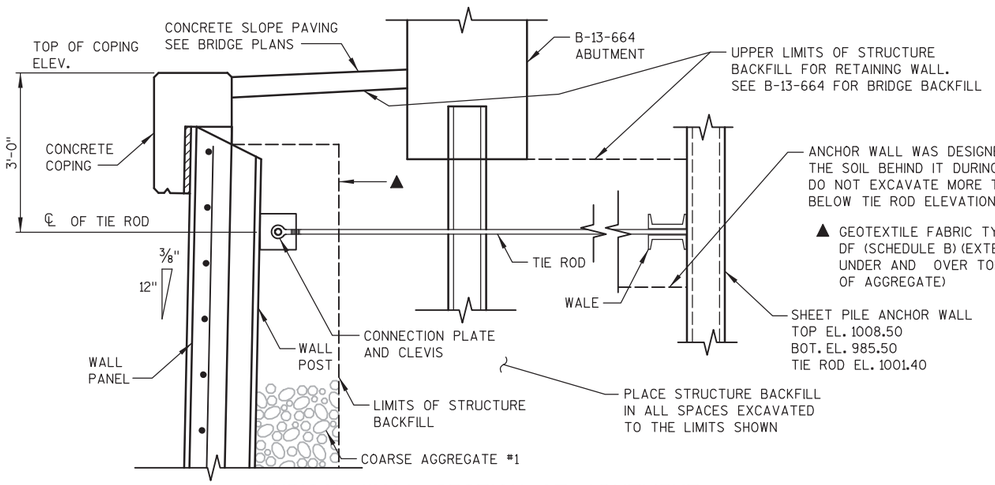
END POST DETAIL

TYP. EACH END

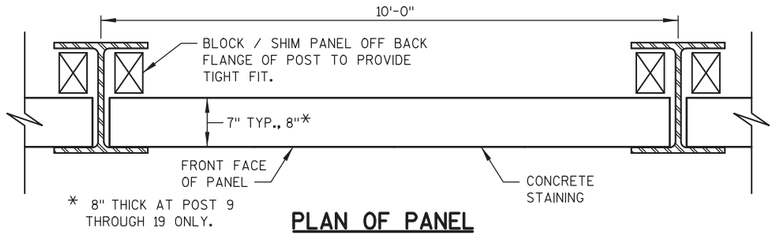


CAST-IN-PLACE CONCRETE COPING DETAIL

ALL COPING REINFORCEMENT SHALL BE EPOXY COATED



TYPICAL WALL SECTION AT ABUTMENT



* 8" THICK AT POST 9 THROUGH 19 ONLY.

PLAN OF PANEL

TOTAL ESTIMATED QUANTITIES

	ITEM #	BID ITEMS	UNIT	TOTALS
	206.3000.03	EXCAVATION FOR STRUCTURES RETAINING WALLS R-13-235	L.S.	1
	209.0300.S.01	BACKFILL COARSE AGGREGATE SIZE NO. 1	C.Y.	125
	210.0100	BACKFILL STRUCTURE	C.Y.	591
*	504.0500	CONCRETE MASONRY RETAINING WALLS	C.Y.	101
**	505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB.	755
	506.0605	STRUCTURAL STEEL HS	LB.	80,850
	506.0105	STRUCTURAL STEEL CARBON	LB.	3231
	512.0500	PILING STEEL SHEET PERMANENT DELIVERED	S.F.	1736
	512.0600	PILING STEEL SHEET PERMANENT DRIVEN	S.F.	1736
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	S.Y.	1
	517.0600.03	PAINTING EPOXY SYSTEM STRUCTURE R-13-235	L.S.	1
	517.1010.S.04	CONCRETE STAINING STRUCTURE R-13-235	S.F.	1893
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	L.F.	200
	612.0806	APRON ENDWALL FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH	EA.	1
	645.0112	GEOTEXTILE FABRIC TYPE DF SCHEDULE B	S.Y.	269
***	SPV.0060.88	MEDALLION CONCRETE STAINING MULTI-COLOR	EA.	1
***	SPV.0060.87	DECORATIVE MEDALLION	EA.	1
	SPV.0090.02	EARTH DRILLING 30-INCH DIAMETER	L.F.	512
	SPV.0165.07	PRECAST PANELS FOR POST AND PANEL WALLS	S.F.	1633
		NON BID - ITEM		
		FILLER	SIZE	¾"
		EXPANDED POLYSTYRENE	SIZE	1"

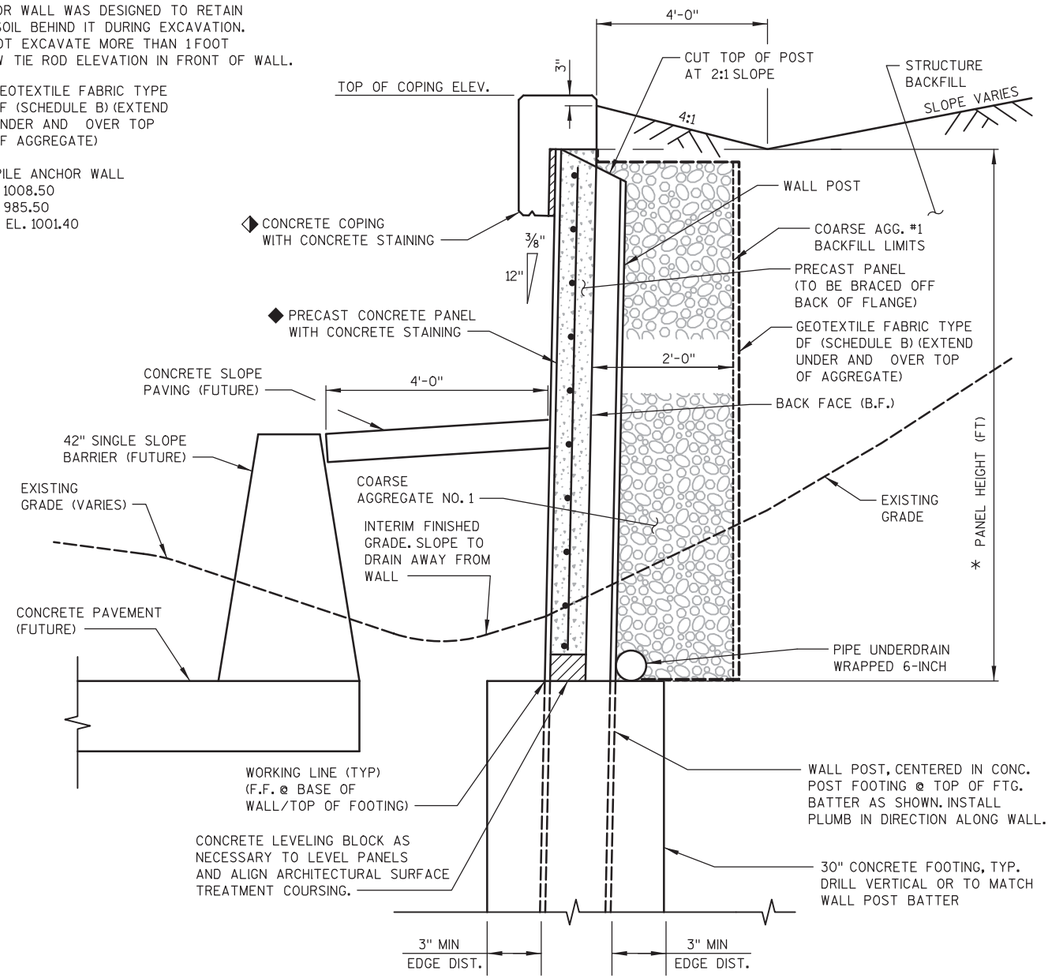
* INCLUDES POST FOOTINGS AND COPING. ** COPING REINFORCING STEEL ONLY.
*** ITEMS ARE CATEGORY 0020. ALL OTHER ITEMS ARE CATEGORY 0060.

LEGEND

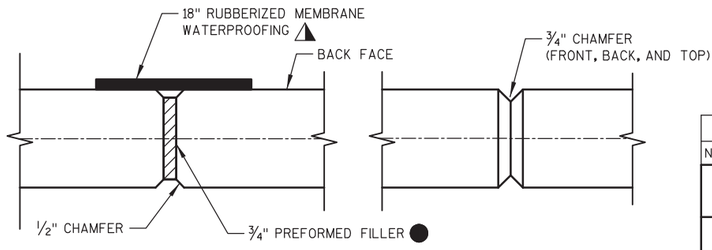
- ◭ RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.
- ● SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, (1" DEEP AND HOLE ⅛" BELOW SURFACE OF CONCRETE).
- ■ COPING SURFACES TO RECEIVE CONCRETE STAINING. COPING STAINING INCLUDED IN BID ITEM "CONCRETE STAINING STRUCTURE R-13-235".

CONCRETE STAINING

- ◭ STAIN COPING FEDERAL STANDARD COLOR NO. FS 36373, MEDIUM GRAY
- ◆ STAIN WALL FEDERAL COLOR FS 26622, PEARL GRAY.



TYPICAL WALL SECTION



COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINTS.
MAX. SPACING OF JOINT = 50'-0".
CENTER JOINT AT ℄ OF POST.
PLACE JOINTS VERTICAL.

COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINTS.
CENTER JOINTS AT ℄ OF POST.
PLACE JOINTS VERTICAL.

STATE PROJECT NUMBER

1206-07-77

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-235

DRAWN BY DTH | PLANS CK'D. BMO

WALL DETAILS (1 OF 2)

SHEET 2 OF 6
1052

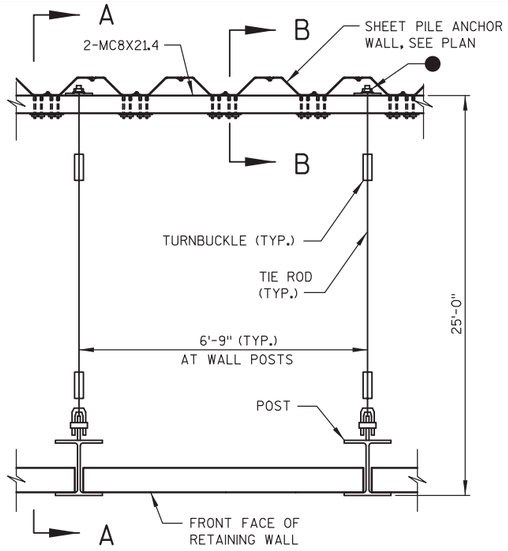
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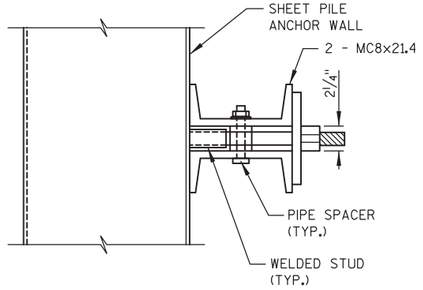
STATE PROJECT NUMBER

1206-07-77



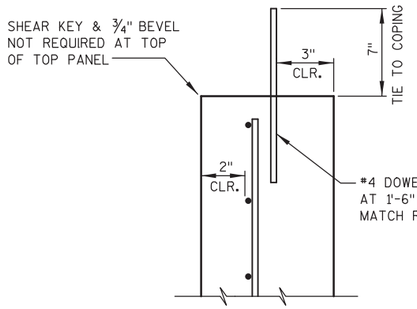
TIE BACK WALL PLAN

● ANGLE RODS AS REQ'D TO FIT BEARING PLATE BETWEEN WALERS & SHEETING



SECTION B-B

(THROUGH ANCHOR WALL AT CONNECTION BOLT)



SECTION THRU TOP PANEL

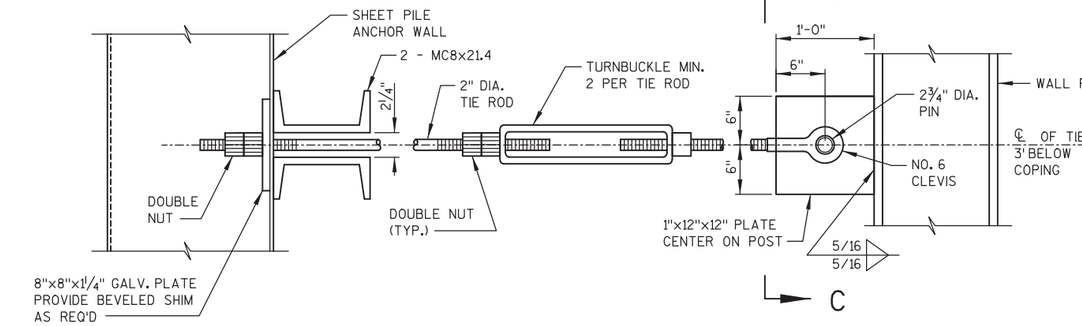
GENERAL NOTES

CLEVISES AND TURNBUCKLES SHALL HAVE A MINIMUM AVAILABLE ULTIMATE STRENGTH (LRFD) OF 92 KIPS.

THREADED RODS, SHEET PILING, CONNECTION PLATES AND BEARING PLATES SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

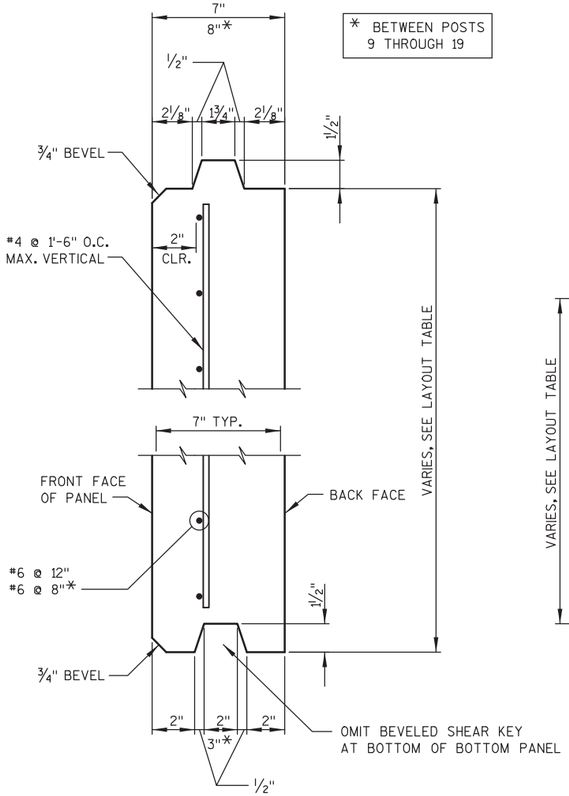
STEEL WALERS SHALL BE ASTM A719 GRADE 36.

ALL CLEVISES, TURN BUCKLES, BOLTS, NUTS, WAHERS, SPACERS, THREADED RODS, AND TIE RODS SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.

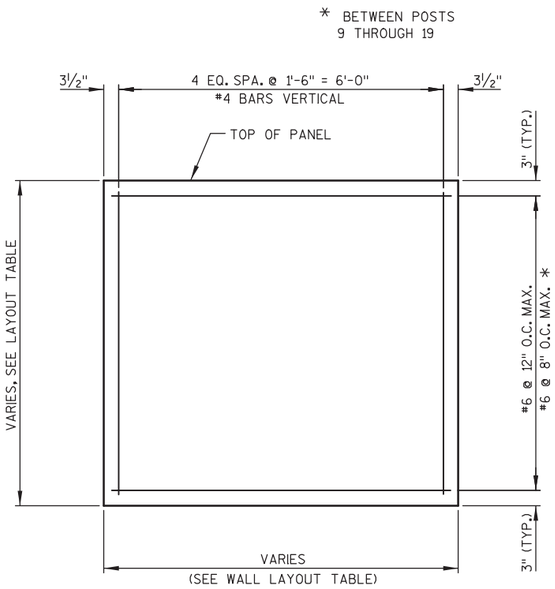


SECTION A-A

(THROUGH ANCHOR WALL AT TIE RODS)

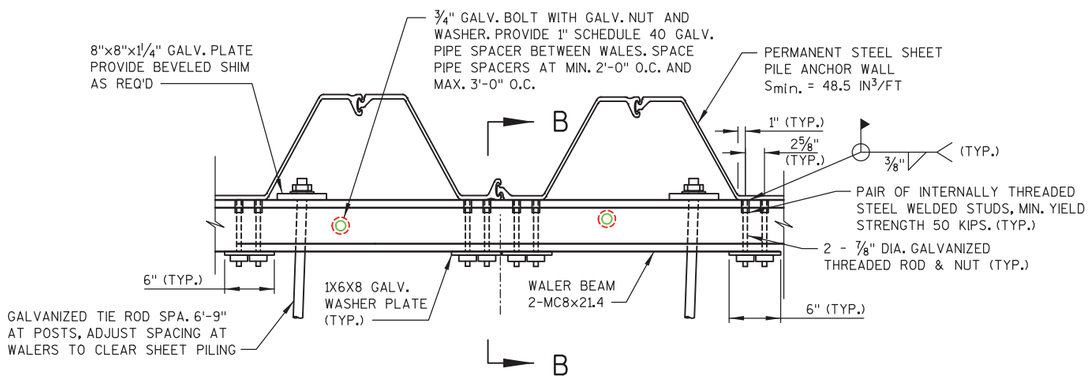


TYPICAL SECTION THRU PANEL



TYPICAL WALL PANEL ELEVATION

ALL BAR STEEL REINF. SHALL BE EPOXY COATED, GRADE 60



ANCHOR WALL PLAN

PRECAST CONCRETE PANEL DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-235

DRAWN BY DTH | PLANS CK'D. BMO

WALL DETAILS (2 OF 2)

SHEET 3 OF 5
1053

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FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\080202_wd.DGN

STATE PROJECT NUMBER

1206-07-77

POST AND PANEL WALL LAYOUT TABLE

POST NUMBER	POST STATION	POST SHAPE	BOTTOM OF FOOTING ELEV.	TOP OF FOOTING ELEV.	TOP OF POST ELEV.	POST LENGTH	HEIGHT OF FOOTING	TOP OF COPING ELEV.
1	1170+00.51	W12x53	974.67	990.92	993.64	18.97	16.25	994.47
2	1170+07.26	W12x53	974.67	990.92	994.88	20.21	16.25	995.71
3	1170+14.01	W12x53	974.67	990.92	996.12	21.45	16.25	996.95
4	1170+20.76	W12x53	974.67	990.92	997.36	22.69	16.25	998.19
5	1170+27.51	W12x96	974.67	990.92	998.60	23.93	16.25	999.44
6	1170+34.26	W14x109	968.92	990.92	999.84	30.92	22.00	1000.68
7	1170+41.01	W14x109	968.50	990.50	1001.09	32.59	22.00	1001.92
8	1170+47.76	W14x132	968.50	990.50	1002.33	33.83	22.00	1003.16
9**	1170+54.51	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
10**	1170+61.26	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
11**	1170+68.01	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
12**	1170+74.76	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
13**	1170+81.51	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
14**	1170+88.26	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
15**	1170+95.01	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
16**	1171+01.76	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
17**	1171+08.51	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
18**	1171+15.26	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
19**	1171+22.01	W14x109	970.47	990.22	1003.57	33.10	19.75	1004.40
20	1171+28.76	W14x132	968.22	990.22	1002.06	33.84	22.00	1002.89
21	1171+35.51	W14x109	968.22	990.22	1000.54	32.32	22.00	1001.37
22	1171+42.26	W14x109	968.22	990.22	999.03	30.81	22.00	999.86
23	1171+49.01	W12x96	973.97	990.22	997.51	23.54	16.25	998.35
24	1171+55.76	W12x53	973.85	990.10	996.00	22.15	16.25	996.83
25	1171+62.51	W12x53	973.85	990.10	994.48	20.63	16.25	995.32
26	1171+69.26	W12x53	973.85	990.10	992.97	19.12	16.25	993.80
27	1171+76.01	W12x53	973.85	990.10	991.46	17.61	16.25	992.29

PANEL NUMBER	POST SPACING C-C	PANEL WIDTH	BOTTOM OF PANEL ELEV.	TOP OF PANEL ELEV.	TOTAL HEIGHT OF PANELS	TOP PANEL HEIGHT	MIDDLE PANEL HEIGHT	BOTTOM PANEL HEIGHT
1*	6.75	6.42	990.92	993.64 - 994.88	2.72 TO 3.96	2.72 TO 3.96		
2*	6.75	6.42	990.92	994.88 - 996.12	3.96 TO 5.20	3.96 TO 5.20		
3*	6.75	6.42	990.92	996.12 - 997.36	5.20 TO 6.44	5.20 TO 6.44		
4*	6.75	6.42	990.92	997.36 - 998.60	6.44 TO 7.68	6.44 TO 7.68		
5*	6.75	6.42	990.92	998.60 - 999.84	7.68 TO 8.92	1.63 TO 2.87		6.05
6*	6.75	6.42	990.92	999.84 - 1001.09	8.92 TO 10.17	6.25 TO 7.49		2.68
7*	6.75	6.42	990.50	1001.09 - 1002.33	10.59 TO 11.83	4.12 TO 5.36		6.47
8*	6.75	6.42	990.50	1002.33 - 1003.57	11.83 TO 13.07	1.98 TO 3.22	6.75	3.10
9	6.75	6.42	990.22	1003.57	13.35	6.60		6.75
10	6.75	6.42	990.22	1003.57	13.35	3.22	6.75	3.38
11	6.75	6.42	990.22	1003.57	13.35	6.60		6.75
12	6.75	6.42	990.22	1003.57	13.35	3.22	6.75	3.38
13	6.75	6.42	990.22	1003.57	13.35	6.60		6.75
14	6.75	6.42	990.22	1003.57	13.35	3.22	6.75	3.38
15	6.75	6.42	990.22	1003.57	13.35	6.60		6.75
16	6.75	6.42	990.22	1003.57	13.35	3.22	6.75	3.38
17	6.75	6.42	990.22	1003.57	13.35	6.60		6.75
18	6.75	6.42	990.22	1003.57	13.35	3.22	6.75	3.38
19*	6.75	6.42	990.22	1003.57 - 1002.06	13.35 TO 11.84	6.60 TO 5.09		6.75
20*	6.75	6.42	990.22	1002.06 - 1000.54	11.84 TO 10.32	8.46 TO 6.95		3.38
21*	6.75	6.42	990.22	1000.54 - 999.03	10.32 TO 8.81	3.57 TO 2.06		6.75
22*	6.75	6.42	990.22	999.03 - 997.51	8.81 TO 7.29	5.43 TO 3.92		3.38
23*	6.75	6.42	990.22	997.51 - 996.00	7.29 TO 5.78	7.29 TO 5.78		
24*	6.75	6.42	990.10	996.00 - 994.48	5.90 TO 4.38	5.90 TO 4.38		
25*	6.75	6.42	990.10	994.48 - 992.97	4.38 TO 2.87	4.38 TO 2.87		
26*	6.75	6.42	990.10	992.97 - 991.46	2.87 TO 1.36	2.87 TO 1.36		

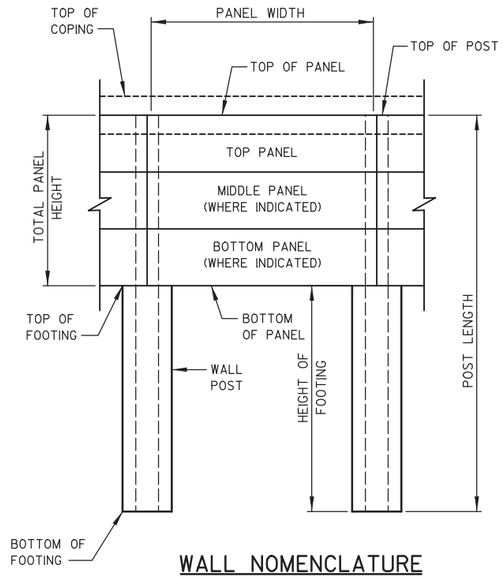
GENERAL NOTES

ALL PANELS SHALL BE RECTANGULAR EXCEPT AS INDICATED BELOW.

POST STATION IS GIVEN AT CENTER OF POST.

* PANELS 1-8 AND 19-26 SHALL HAVE SLOPED TOPS. PANEL HEIGHTS PROVIDED IN THE TABLE FOR THESE PANELS ARE GIVEN AT EACH END OF THE TRAPEZOIDAL PANEL.

** POST 9 THROUGH 19 ARE TIED BACK TO A SHEET PILE ANCHOR WALL. SEE DETAILS.



WALL NOMENCLATURE LEGEND

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

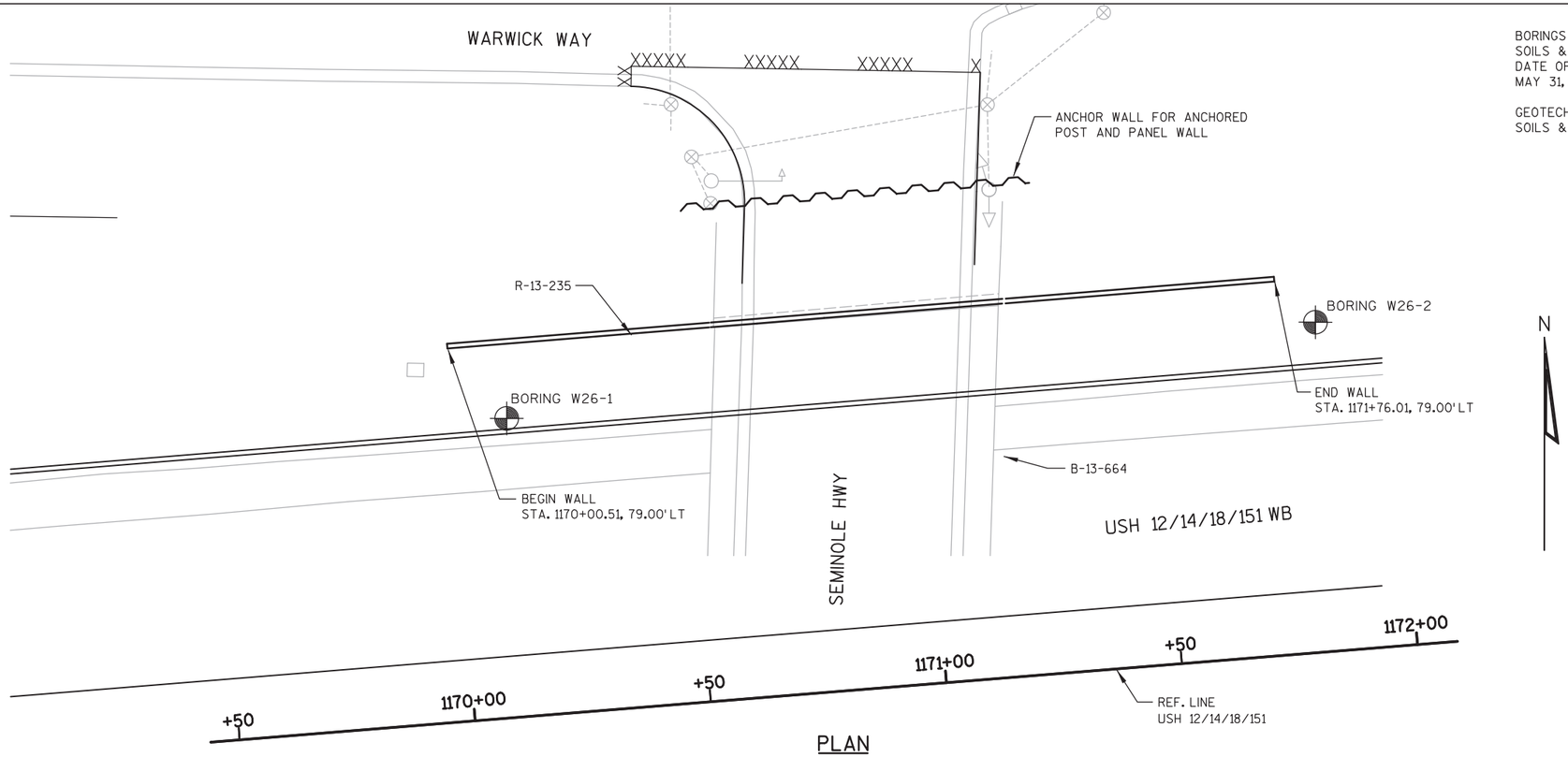
STRUCTURE R-13-235

DRAWN BY DTH | PLANS CK'D. BMO

WALL LAYOUT DATA

SHEET 4 OF 6
1054

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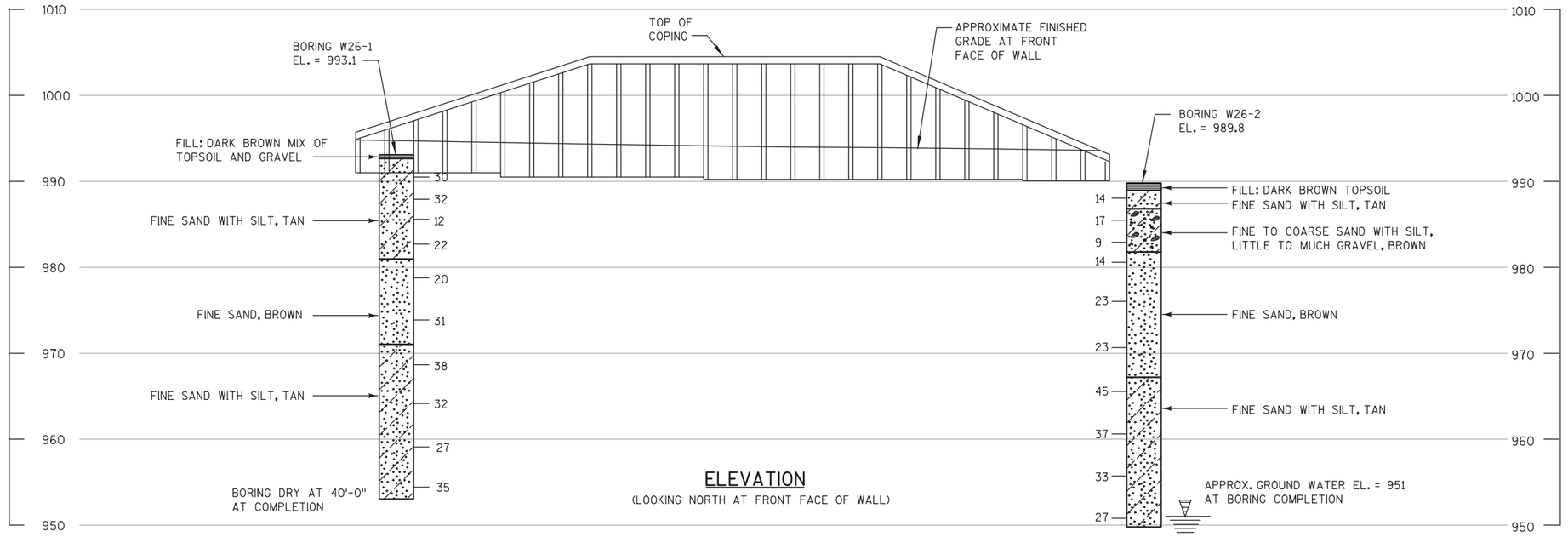


PLAN

N

BORINGS PERFORMED BY:
SOILS & ENGINEERING SERVICES, INC.
DATE OF BORINGS:
MAY 31, 2011

GEOTECHICAL REPORT BY:
SOILS & ENGINEERING SERVICES, INC.



ELEVATION
(LOOKING NORTH AT FRONT FACE OF WALL)

STATE PROJECT NUMBER

1206-07-77

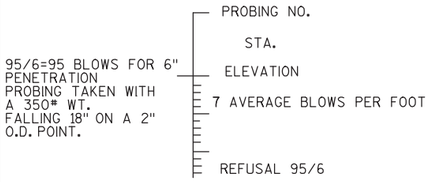
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

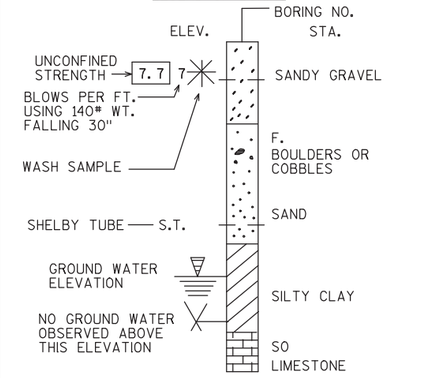
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-235

DRAWN BY RRD | PLANS CK'D. BMO

SUBSURFACE EXPLORATION

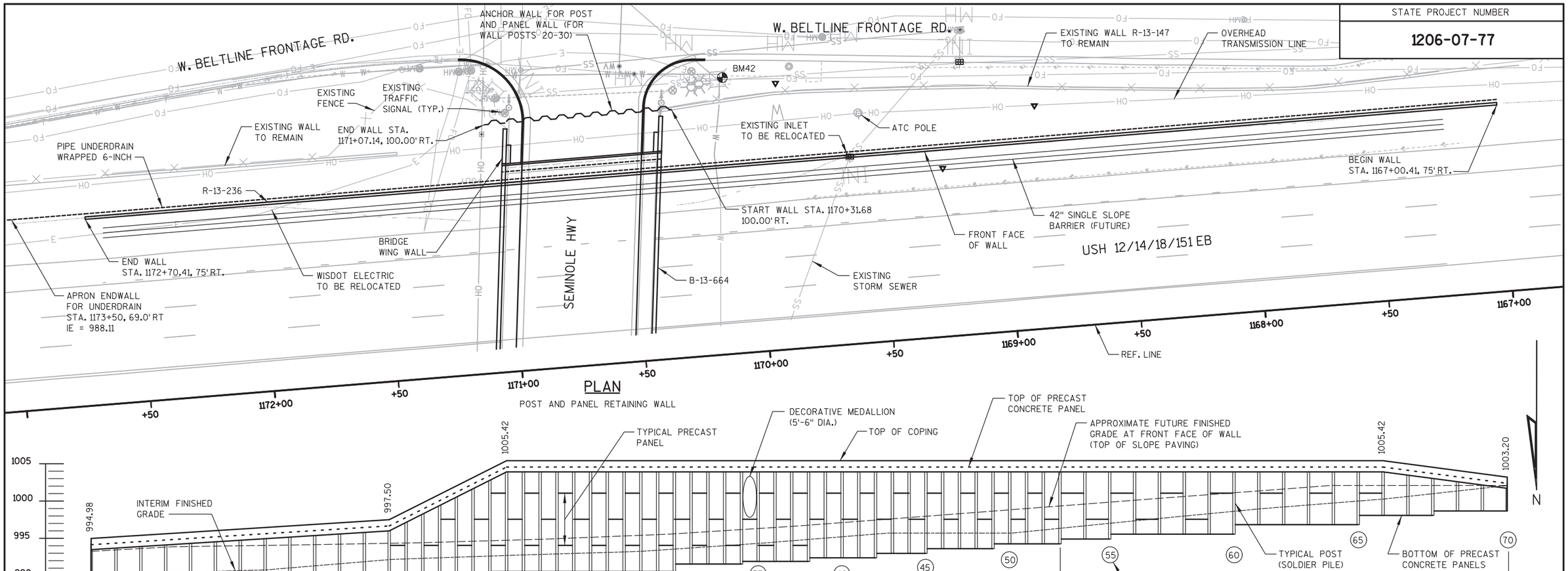
SHEET 5 OF 5
1055

8

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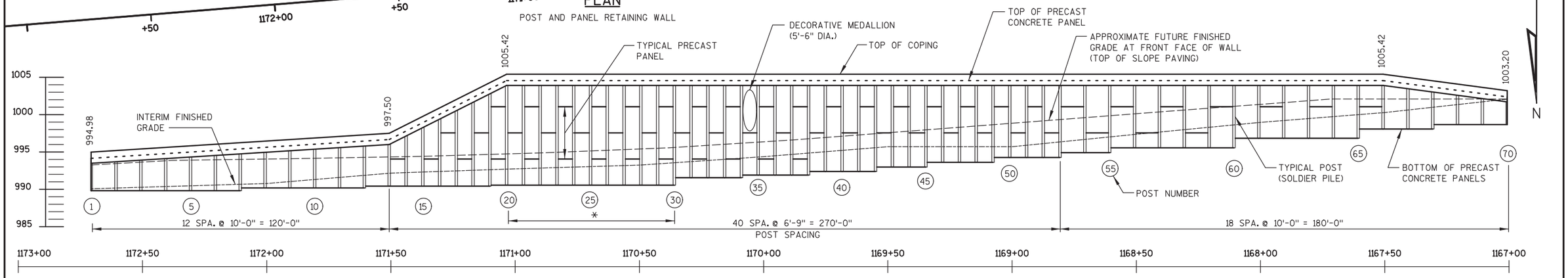
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STATE PROJECT NUMBER
1206-07-77



PLAN

POST AND PANEL RETAINING WALL



ELEVATION

(LOOKING SOUTH AT FRONT FACE OF WALL)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS, STATIONS, AND OFFSETS ARE TO THE WORKING LINE (FRONT FACE AT BASE OF WALL/TOP OF FOOTING).

STRUCTURAL STEEL POSTS SHALL BE ASTM A709 GRADE 50.

BAR STEEL REINF. SHALL BE EMBEDDED 2" CL. UNLESS OTHERWISE NOTED.

EXCAVATE TO TOP OF FOOTING ELEVATION PRIOR TO EARTH DRILLING.

BID ITEM "EXCAVATION FOR STRUCTURES RETAINING WALLS R-13-236" SHALL INCLUDE ALL EXCAVATION REQUIRED TO CONSTRUCT RETAINING WALL. PLACE STRUCTURE BACKFILL BEHIND THE WALL TO THE LIMITS SHOWN.

ALL STRUCTURAL STEEL POSTS SHALL RECEIVE AT MINIMUM A PRIME COAT OF ZINC-RICH PAINT. ADDITIONALLY THE TOP PORTION OF THE POSTS FROM TOP OF POSTS DOWN TO 1-FT. BELOW THE TOP OF FOOTING ELEVATION SHALL RECEIVE A TOTAL OF THREE COATS OF PAINT PER SECTION 517 OF THE STANDARD SPECIFICATIONS.

WALLS R-13-235 AND R-13-236 WILL BE CONSTRUCTED CONCURRENTLY WITH BRIDGE B-13-664. CONSTRUCTION SEQUENCE FOR THE ANCHOR WALL AND TIE RODS MUST BE COORDINATED WITH ABUTMENT CONSTRUCTION.

FINISHED GRADE AT FRONT FACE OF WALL VARIES FROM INTERIM CONDITION TO FINAL CONDITION. WALL IS DESIGNED FOR GRADE IN FRONT TO BE AT TOP OF FOOTING.

THE WALL BETWEEN POSTS 20 & 30 HAS BEEN DESIGNED TO RESIST THE VERTICAL AND LATERAL EARTH PRESSURES BEHIND THE BRIDGE ABUTMENT AND A 240 PSF LIVE LOAD SURCHARGE. REMAINDER OF WALL HAS BEEN DESIGNED FOR A 100 PSF LIVE LOAD SURCHARGE.

SHEET PILE ANCHOR WALL IS DESIGNED TO RETAIN THE SOIL BEHIND IT. DO NOT EXCAVATE IN FRONT OF WALL TO A DEPTH OF MORE THAN 1-FOOT BELOW THE TIE ROD ELEVATION.

LIST OF DRAWINGS

1. GENERAL PLAN
2. WALL DETAILS - 1
3. WALL DETAILS - 2
4. WALL LAYOUT DATA - 1
5. WALL LAYOUT DATA - 2
6. SUBSURFACE EXPLORATION

DESIGN DATA

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY, PRECAST PANELS	f'c = 4,000 psi
CONCRETE MASONRY, ALL OTHERS	f'c = 3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 psi
HIGH STRENGTH STRUCTURAL STEEL	fy = 50,000 psi

RETAINED SOIL PROPERTIES

UNIT WEIGHT = 120 PCF
ANGLE OF INTERNAL FRICTION = 30°

BENCHMARKS

NO.	STATION	DESCRIPTION	ELEV.
BM42	1170+10 111' RT	CHISELED SQ SW COR. TFSB CONC. PAD IN SW QUAD.	1012.35
BM43	1170+59 94' LT	CAP @ TOP OF PARAPET NW QUAD B-13-264.	1014.27
BM44	1167+31 199' LT	RR SPIKE LT POLE #20G1-C13 APPROX. 350' W OF BRIDGE ON WARWICK WAY.	1011.54

* POSTS 20 THROUGH 30 ARE TIED BACK TO A SHEET PILE ANCHOR WALL. REMAINING POSTS ARE CANTILEVERED.



BRIDGE OFFICE CONTACT:
BILL DREHER (608) 266-8489

DESIGN CONSULTANT CONTACT:
BRETT OFTEDAHL (608) 251-4843

NO.	DATE	REVISION	BY

STRAND ASSOCIATES
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR — 02/26/13
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-13-236

USH 12/14/18/151 @ SEMINOLE HWY

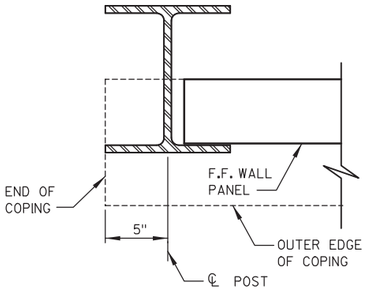
COUNTY	DANE
~~TOWN~~/CITY/~~VILLAGE~~	MADISON
DESIGN SPEC.	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	RRD	DESIGN CK'D.	DDR	DRAWN BY	DTH	PLANS CK'D.	BMO

GENERAL PLAN

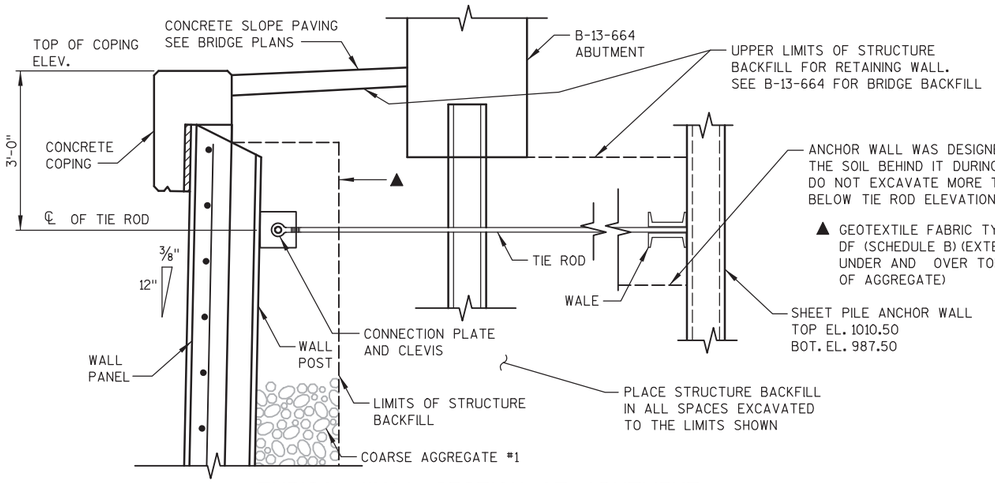
SHEET 1 OF 6
1056

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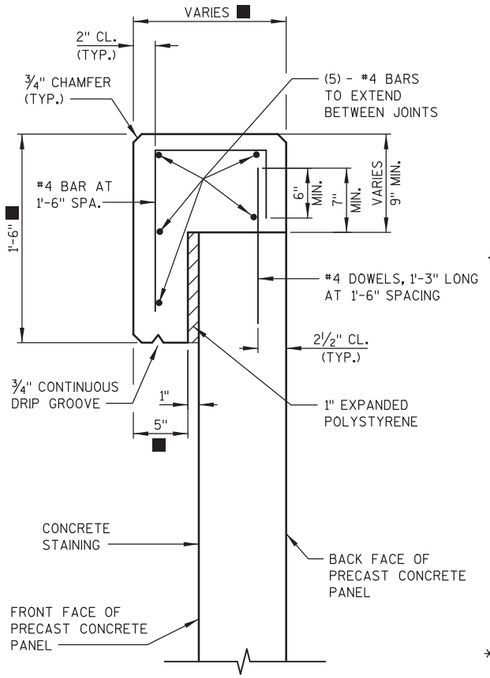


END POST DETAIL

TYP. EACH END

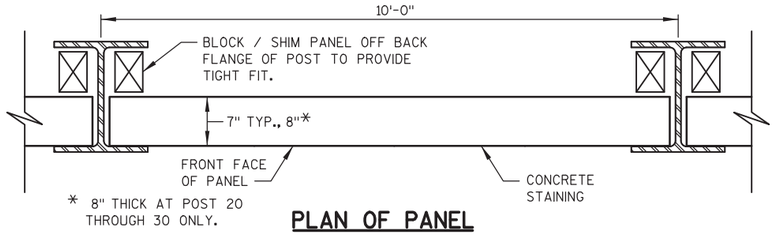


TYPICAL WALL SECTION AT ABUTMENT



CAST-IN-PLACE CONCRETE COPING DETAIL

ALL COPING REINFORCEMENT SHALL BE EPOXY COATED



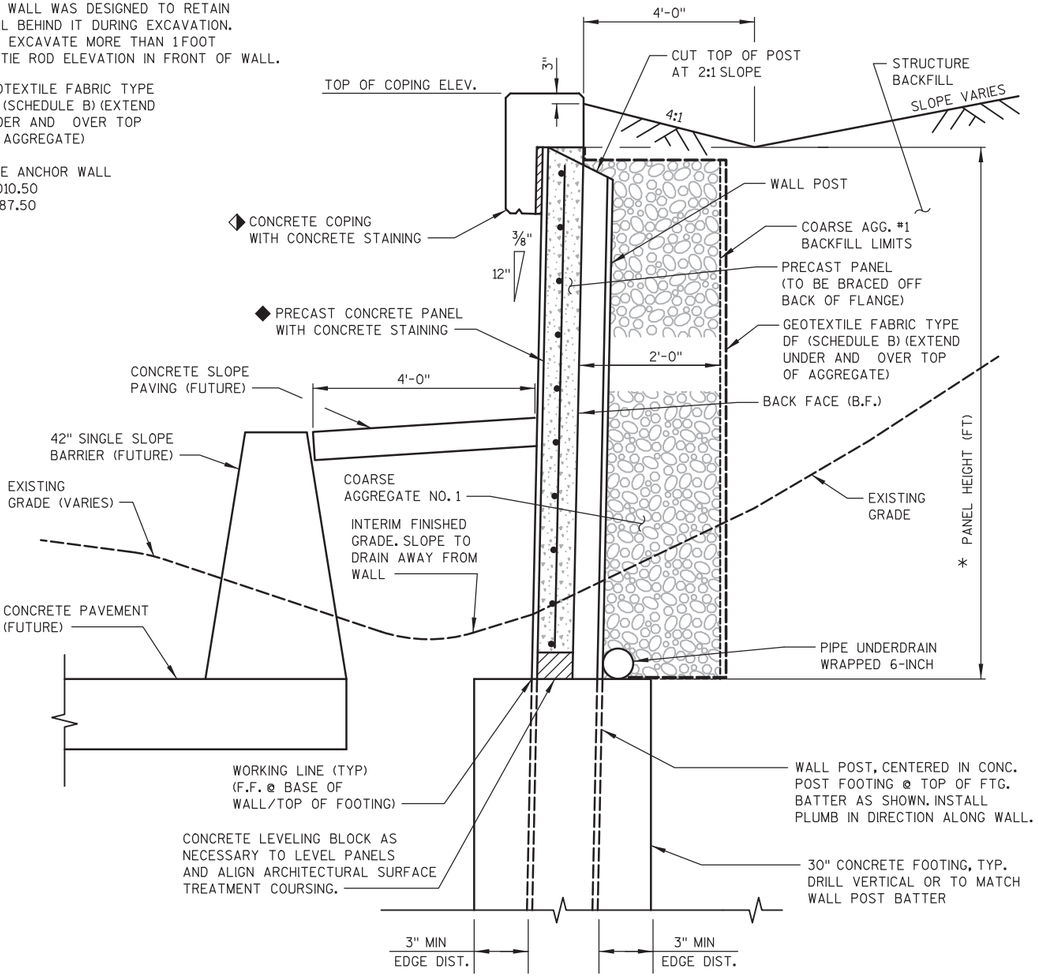
* 8" THICK AT POST 20 THROUGH 30 ONLY.

PLAN OF PANEL

CONCRETE STAINING

◧ STAIN COPING FEDERAL STANDARD COLOR NO. FS 36373, MEDIUM GRAY

◆ STAIN WALL FEDERAL COLOR FS 26622, PEARL GRAY.



TYPICAL WALL SECTION

TOTAL ESTIMATED QUANTITIES

	ITEM #	BID ITEMS	UNIT	TOTALS
	206.3000.04	EXCAVATION FOR STRUCTURES RETAINING WALLS R-13-236	L.S.	1
	209.0300.S.01	BACKFILL COARSE AGGREGATE SIZE NO. 1	C.Y.	386
	210.0100	BACKFILL STRUCTURE	C.Y.	3055
*	504.0500	CONCRETE MASONRY RETAINING WALLS	C.Y.	295
**	505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB.	2463
	506.0605	STRUCTURAL STEEL HS	LB.	305,610
	506.0105	STRUCTURAL STEEL CARBON	LB.	3231
	512.0500	PILING STEEL SHEET PERMANENT DELIVERED	S.F.	1736
	512.0600	PILING STEEL SHEET PERMANENT DRIVEN	S.F.	1736
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	S.Y.	3
	517.0600.04	PAINTING EPOXY SYSTEM STRUCTURE R-13-236	L.S.	1
	517.1010.S.05	CONCRETE STAINING STRUCTURE R-13-236	S.F.	5986
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	L.F.	650
	612.0806	APRON ENDWALL FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH	EA.	1
	645.0112	GEOTEXTILE FABRIC TYPE DF SCHEDULE B	S.Y.	834
***	SPV.0060.88	MEDALLION CONCRETE STAINING MULTI-COLOR	EA.	1
***	SPV.0060.87	DECORATIVE MEDALLION	EA.	1
	SPV.0090.02	EARTH DRILLING 30-INCH DIAMETER	L.F.	1480
	SPV.0165.07	PRECAST PANELS FOR POST AND PANEL WALLS	S.F.	5000
		NON BID - ITEM		
		FILLER	SIZE	3/4"
		EXPANDED POLYSTYRENE	SIZE	1"

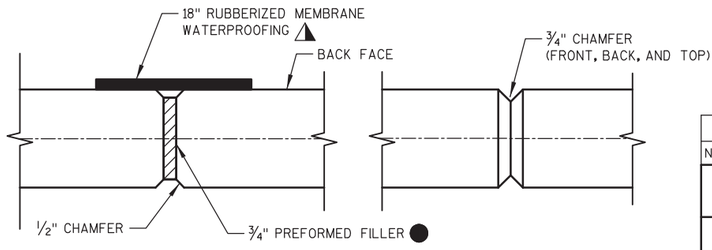
* INCLUDES POST FOOTINGS AND COPING. ** COPING REINFORCING STEEL ONLY.
*** ITEMS ARE CATEGORY 0020. ALL OTHER ITEMS ARE CATEGORY 0070.

LEGEND

◭ RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.

● SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, (1" DEEP AND HOLE 1/8" BELOW SURFACE OF CONCRETE).

■ COPING SURFACES TO RECEIVE CONCRETE STAINING. COPING STAINING INCLUDED IN BID ITEM "CONCRETE STAINING STRUCTURE R-13-236".



COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINTS.
MAX. SPACING OF JOINT = 50'-0".
CENTER JOINT AT ℄ OF POST.
PLACE JOINTS VERTICAL.

COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINTS.
CENTER JOINTS AT ℄ OF POST.
PLACE JOINTS VERTICAL.

STATE PROJECT NUMBER
1206-07-77

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-236

DRAWN BY DTH | PLANS CK'D. BMO

WALL DETAILS-1

SHEET 2 OF 6
1057

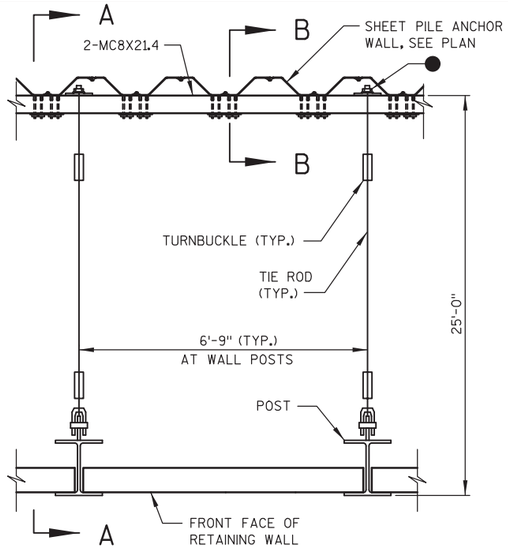
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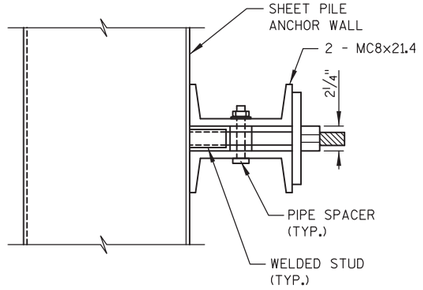
STATE PROJECT NUMBER

1206-07-77



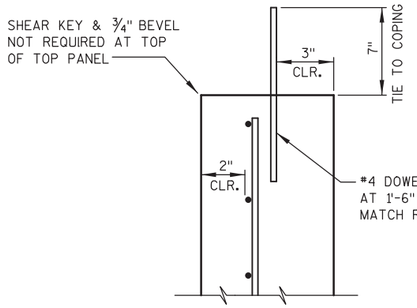
TIE BACK WALL PLAN

● ANGLE RODS AS REQ'D TO FIT BEARING PLATE BETWEEN WALERS & SHEETING



SECTION B-B

(THROUGH ANCHOR WALL AT CONNECTION BOLT)



SECTION THRU TOP PANEL

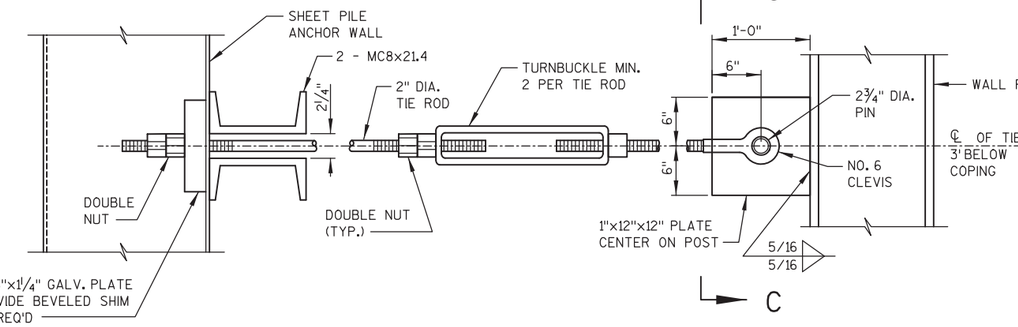
GENERAL NOTES

CLEVISES AND TURNBUCKLES SHALL HAVE A MINIMUM AVAILABLE ULTIMATE STRENGTH (LRFD) OF 92 KIPS.

THREADED RODS, SHEET PILING, CONNECTION PLATES AND BEARING PLATES SHALL HAVE A MINIMUM YIELD STRENGTH OF 50 KSI.

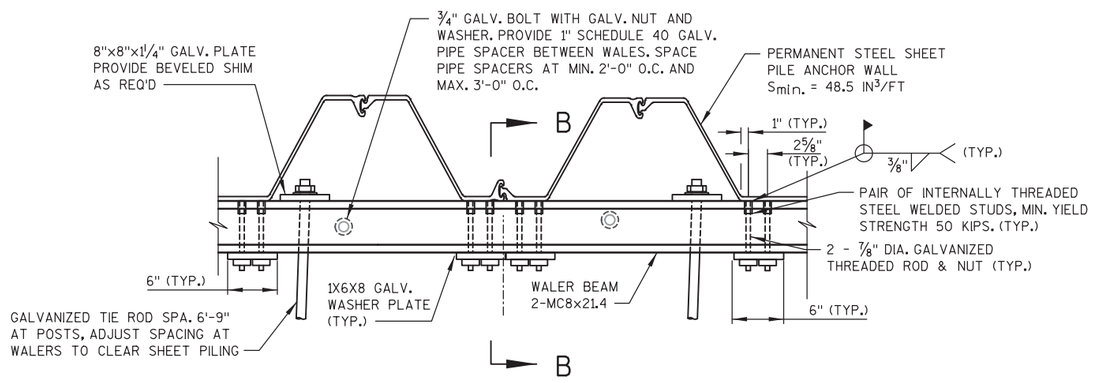
STEEL WALERS SHALL BE ASTM A719 GRADE 36.

ALL CLEVISES, TURN BUCKLES, BOLTS, NUTS, WAHERS, SPACERS, THREADED RODS, AND TIE RODS SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.

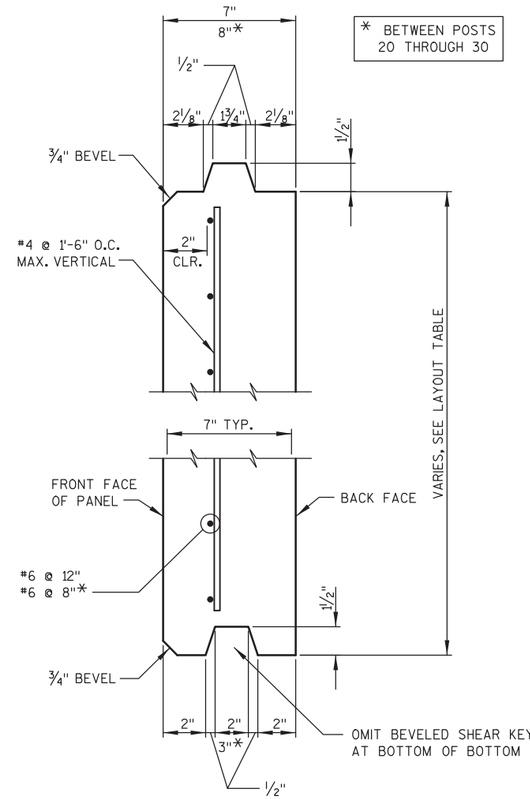


SECTION A-A

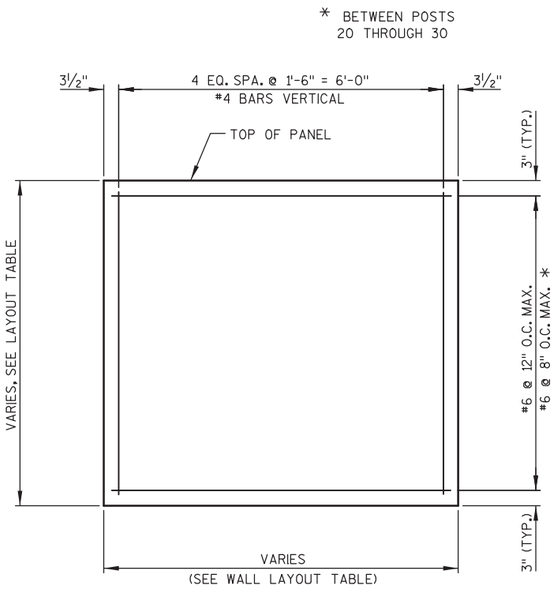
(THROUGH ANCHOR WALL AT TIE RODS)



ANCHOR WALL PLAN



TYPICAL SECTION THRU PANEL



TYPICAL WALL PANEL ELEVATION

ALL BAR STEEL REINF. SHALL BE EPOXY COATED, GRADE 60

PRECAST CONCRETE PANEL DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-236

DRAWN BY DTH | PLANS CK'D. BMO

WALL DETAILS-2

SHEET 3 OF 6
1058

8

8

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\080302_wd.DGN

POST AND PANEL WALL LAYOUT TABLE

POST NUMBER	POST STATION	POST SHAPE	BOTTOM OF FOOTING ELEV.	TOP OF FOOTING ELEV.	TOP OF POST ELEV.	POST LENGTH	HEIGHT OF FOOTING	TOP OF COPING ELEV.
1	1172+70.41	W12x53	973.31	989.81	994.15	20.84	16.50	994.98
2	1172+60.41	W12x53	973.31	989.81	994.36	21.05	16.50	995.19
3	1172+50.41	W12x53	973.31	989.81	994.57	21.26	16.50	995.40
4	1172+40.41	W12x53	973.31	989.81	994.78	21.47	16.50	995.61
5	1172+30.41	W12x53	973.31	989.81	994.99	21.68	16.50	995.82
6	1172+20.41	W12x53	973.31	989.81	995.20	21.89	16.50	996.03
7	1172+10.41	W12x53	973.31	989.81	995.41	22.10	16.50	996.24
8	1172+00.41	W12x53	973.68	990.18	995.62	21.94	16.50	996.45
9	1171+90.41	W12x53	973.68	990.18	995.83	22.15	16.50	996.66
10	1171+80.41	W12x53	973.68	990.18	996.04	22.36	16.50	996.87
11	1171+70.41	W12x53	973.68	990.18	996.25	22.57	16.50	997.08
12	1171+60.41	W12x53	973.18	990.18	996.46	23.28	17.00	997.29
13	1171+50.41	W12x96	973.43	990.43	996.67	23.24	17.00	997.50
14	1171+43.66	W12x96	970.93	990.43	997.79	26.86	19.50	998.63
15	1171+36.91	W14x109	970.93	990.43	998.92	27.99	19.50	999.76
16	1171+30.16	W14x109	965.93	990.43	1000.05	34.12	24.50	1000.89
17	1171+23.41	W14x132	965.93	990.43	1001.17	35.24	24.50	1002.03
18	1171+16.66	W14x159	965.93	990.43	1002.30	36.37	24.50	1003.16
19	1171+09.91	W14x193	962.68	990.43	1003.42	40.74	27.75	1004.29
20**	1171+03.16	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
21**	1170+96.41	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
22**	1170+89.66	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
23**	1170+82.91	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
24**	1170+76.16	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
25**	1170+69.41	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
26**	1170+62.66	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
27**	1170+55.91	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
28**	1170+49.16	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
29**	1170+42.41	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
30**	1170+35.66	W14x193	971.55	990.55	1004.55	33.00	19.00	1005.42
31	1170+28.91	W14x193	963.8	991.55	1004.55	40.75	27.75	1005.42
32	1170+22.16	W14x193	965.55	991.55	1004.55	39.00	26.00	1005.42
33	1170+15.41	W14x193	965.55	991.55	1004.55	39.00	26.00	1005.42
34	1170+08.66	W14x193	965.55	991.55	1004.55	39.00	26.00	1005.42
35	1170+01.91	W14x193	965.91	991.91	1004.55	38.64	26.00	1005.42

PANEL NUMBER	POST SPACING C-C	PANEL WIDTH	BOTTOM OF PANEL ELEV.	TOP OF PANEL ELEV.	TOTAL HEIGHT OF PANELS	TOP PANEL HEIGHT	MIDDLE PANEL HEIGHT	BOTTOM PANEL HEIGHT
1	10.00	9.67	989.81	994.15	4.34	4.34		
2	10.00	9.67	989.81	994.36	4.55	4.55		
3	10.00	9.67	989.81	994.57	4.76	4.76		
4	10.00	9.67	989.81	994.78	4.97	4.97		
5	10.00	9.67	989.81	994.99	5.18	5.18		
6	10.00	9.67	989.81	995.20	5.39	5.39		
7	10.00	9.67	990.18	995.41	5.23	5.23		
8	10.00	9.67	990.18	995.62	5.44	5.44		
9	10.00	9.67	990.18	995.83	5.65	5.65		
10	10.00	9.67	990.18	996.04	5.86	5.86		
11	10.00	9.67	990.18	996.25	6.07	6.07		
12	10.00	9.67	990.43	996.46	6.03	6.03		
13*	6.75	6.42	990.43	996.67 - 997.79	6.24 TO 7.36	2.62 TO 3.74		3.62
14*	6.75	6.42	990.43	997.79 - 998.92	7.36 TO 8.49	7.36 TO 8.49		
15*	6.75	6.42	990.43	998.92 - 1000.05	8.49 TO 9.62	4.87 TO 6.00		3.62
16*	6.75	6.42	990.43	1000.05 - 1001.17	9.62 TO 10.74	2.50 TO 3.62		7.12
17*	6.75	6.42	990.43	1001.17 - 1002.30	10.74 TO 11.87	7.12 TO 8.25		3.62
18*	6.75	6.42	990.43	1002.30 - 1003.42	11.87 TO 12.99	4.75 TO 5.87		7.12
19*	6.75	6.42	990.55	1003.42 - 1004.55	12.87 TO 14.00	2.37 TO 3.50	7.00	3.50
20	6.75	6.42	990.55	1004.55	14.00	7.00		7.00
21	6.75	6.42	990.55	1004.55	14.00	3.50	7.00	3.50
22	6.75	6.42	990.55	1004.55	14.00	7.00		7.00
23	6.75	6.42	990.55	1004.55	14.00	3.50	7.00	3.50
24	6.75	6.42	990.55	1004.55	14.00	7.00		7.00
25	6.75	6.42	990.55	1004.55	14.00	3.50	7.00	3.50
26	6.75	6.42	990.55	1004.55	14.00	7.00		7.00
27	6.75	6.42	990.55	1004.55	14.00	3.50	7.00	3.50
28	6.75	6.42	990.55	1004.55	14.00	7.00		7.00
29	6.75	6.42	990.55	1004.55	14.00	3.50	7.00	3.50
30	6.75	6.42	991.55	1004.55	13.00	7.00		6.00
31	6.75	6.42	991.55	1004.55	13.00	3.50	7.00	2.50
32	6.75	6.42	991.55	1004.55	13.00	7.00		6.00
33	6.75	6.42	991.55	1004.55	13.00	3.50	7.00	2.50
34	6.75	6.42	991.91	1004.55	12.64	7.00		5.64
35	6.75	6.42	991.91	1004.55	12.64	3.50	7.00	2.14

STATE PROJECT NUMBER

1206-07-77

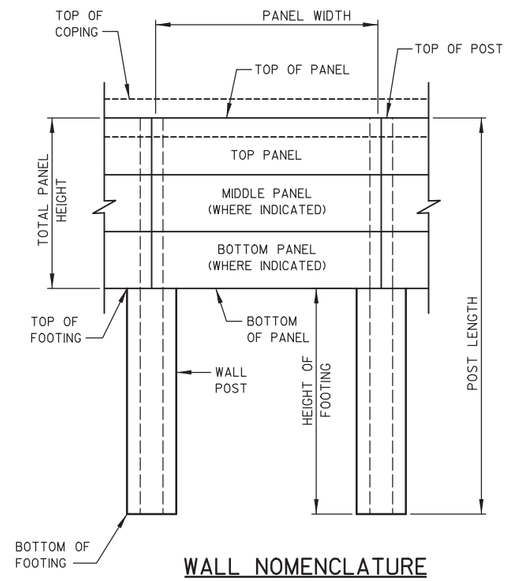
GENERAL NOTES

ALL PANELS SHALL BE RECTANGULAR EXCEPT AS INDICATED BELOW.

POST STATION IS GIVEN AT CENTER OF POST.

* PANELS 13-19 SHALL HAVE SLOPED TOPS. PANEL HEIGHTS PROVIDED IN THE TABLE FOR THESE PANELS ARE GIVEN AT EACH END OF THE TRAPEZOIDAL PANEL.

** POST 20 THROUGH 30 ARE TIED BACK TO A SHEET PILE ANCHOR WALL. SEE DETAILS.



WALL NOMENCLATURE LEGEND

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-236

DRAWN BY DTH | PLANS CK'D. BMO

WALL LAYOUT DATA - 1

SHEET 4 OF 6
1059

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\080303_wd.DGN

POST AND PANEL WALL LAYOUT TABLE

POST NUMBER	POST STATION	POST SHAPE	BOTTOM OF FOOTING ELEV.	TOP OF FOOTING ELEV.	TOP OF POST ELEV.	POST LENGTH	HEIGHT OF FOOTING	TOP OF COPING ELEV.
36	1169+95.16	W14x193	965.91	991.91	1004.55	38.64	26.00	1005.42
37	1169+88.41	W14x193	965.91	991.91	1004.55	38.64	26.00	1005.42
38	1169+81.66	W14x193	965.91	991.91	1004.55	38.64	26.00	1005.42
39	1169+74.91	W14x159	967.88	992.38	1004.55	36.67	24.50	1005.42
40	1169+68.16	W14x159	967.88	992.38	1004.55	36.67	24.50	1005.42
41	1169+61.41	W14x159	967.88	992.38	1004.55	36.67	24.50	1005.42
42	1169+54.66	W14x159	967.88	992.38	1004.55	36.67	24.50	1005.42
43	1169+47.91	W14x159	968.47	992.97	1004.55	36.08	24.50	1005.42
44	1169+41.16	W14x159	968.47	992.97	1004.55	36.08	24.50	1005.42
45	1169+34.41	W14x159	968.47	992.97	1004.55	36.08	24.50	1005.42
46	1169+27.66	W14x132	972.1	993.6	1004.55	32.45	21.50	1005.42
47	1169+20.91	W14x132	972.1	993.6	1004.55	32.45	21.50	1005.42
48	1169+14.16	W14x132	972.1	993.6	1004.55	32.45	21.50	1005.42
49	1169+07.41	W14x132	972.1	993.6	1004.55	32.45	21.50	1005.42
50	1169+00.66	W14x109	972.76	994.26	1004.55	31.79	21.50	1005.42
51	1168+93.91	W14x109	972.76	994.26	1004.55	31.79	21.50	1005.42
52	1168+87.16	W14x109	972.76	994.26	1004.55	31.79	21.50	1005.42
53	1168+80.41	W14x145	970.76	994.26	1004.55	33.79	23.50	1005.42
54	1168+70.41	W14x145	971.41	994.91	1004.55	33.14	23.50	1005.42
55	1168+60.41	W14x145	971.41	994.91	1004.55	33.14	23.50	1005.42
56	1168+50.41	W14x145	972.05	995.55	1004.55	32.50	23.50	1005.42
57	1168+40.41	W14x145	972.05	995.55	1004.55	32.50	23.50	1005.42
58	1168+30.41	W14x145	972.05	995.55	1004.55	32.50	23.50	1005.42
59	1168+20.41	W14x145	972.05	995.55	1004.55	32.50	23.50	1005.42
60	1168+10.41	W14x145	972.05	995.55	1004.55	32.50	23.50	1005.42
61	1168+00.41	W14x90	976.83	996.83	1004.55	27.72	20.00	1005.42
62	1167+90.41	W14x90	976.83	996.83	1004.55	27.72	20.00	1005.42
63	1167+80.41	W14x90	976.83	996.83	1004.55	27.72	20.00	1005.42
64	1167+70.41	W14x90	976.83	996.83	1004.55	27.72	20.00	1005.42
65	1167+60.41	W14x90	976.83	996.83	1004.55	27.72	20.00	1005.42
66	1167+50.41	W14x90	978.07	998.07	1004.55	26.48	20.00	1005.42
67	1167+40.41	W12x53	983.07	998.07	1004.11	21.04	15.00	1004.98
68	1167+30.41	W12x53	983.07	998.07	1003.68	20.61	15.00	1004.53
69	1167+20.41	W12x53	983.67	998.67	1003.24	19.57	15.00	1004.09
70	1167+10.41	W12x53	983.67	998.67	1002.80	19.13	15.00	1003.64
71	1167+00.41	W12x53	983.67	998.67	1002.37	18.70	15.00	1003.20

PANEL NUMBER	POST SPACING C-C	PANEL WIDTH	BOTTOM OF PANEL ELEV.	TOP OF PANEL ELEV.	TOTAL HEIGHT OF PANELS	TOP PANEL HEIGHT	MIDDLE PANEL HEIGHT	BOTTOM PANEL HEIGHT
36	6.75	6.42	991.91	1004.55	12.64	7.00		5.64
37	6.75	6.42	991.91	1004.55	12.64	3.50	7.00	2.14
38	6.75	6.42	992.38	1004.55	12.17	7.00		5.17
39	6.75	6.42	992.38	1004.55	12.17	3.50		8.67
40	6.75	6.42	992.38	1004.55	12.17	7.00		5.17
41	6.75	6.42	992.38	1004.55	12.17	3.50		8.67
42	6.75	6.42	992.97	1004.55	11.58	7.00		4.58
43	6.75	6.42	992.97	1004.55	11.58	3.50		8.08
44	6.75	6.42	992.97	1004.55	11.58	7.00		4.58
45	6.75	6.42	993.60	1004.55	10.95	3.50		7.45
46	6.75	6.42	993.60	1004.55	10.95	7.00		3.95
47	6.75	6.42	993.60	1004.55	10.95	3.50		7.45
48	6.75	6.42	993.60	1004.55	10.95	7.00		3.95
49	6.75	6.42	994.26	1004.55	10.29	3.50		6.79
50	6.75	6.42	994.26	1004.55	10.29	7.00		3.29
51	6.75	6.42	994.26	1004.55	10.29	3.50		6.79
52	6.75	6.42	994.26	1004.55	10.29	7.00		3.29
53	10.00	9.67	994.91	1004.55	9.64	3.50		6.14
54	10.00	9.67	994.91	1004.55	9.64	7.00		2.64
55	10.00	9.67	995.55	1004.55	9.00	3.50		5.50
56	10.00	9.67	995.55	1004.55	9.00	7.00		2.00
57	10.00	9.67	995.55	1004.55	9.00	3.50		5.50
58	10.00	9.67	995.55	1004.55	9.00	7.00		2.00
59	10.00	9.67	995.55	1004.55	9.00	3.50		5.50
60	10.00	9.67	996.83	1004.55	7.72	7.72		
61	10.00	9.67	996.83	1004.55	7.72	3.50		4.22
62	10.00	9.67	996.83	1004.55	7.72	7.72		
63	10.00	9.67	996.83	1004.55	7.72	3.50		4.22
64	10.00	9.67	996.83	1004.55	7.72	7.72		
65	10.00	9.67	998.07	1004.55	6.48	3.50		2.98
66	10.00	9.67	998.07	1004.19	6.12	6.12		
67	10.00	9.67	998.07	1003.76	5.69	5.69		
68	10.00	9.67	998.67	1003.32	4.65	4.65		
69	10.00	9.67	998.67	1002.88	4.21	4.21		
70	10.00	9.67	998.67	1002.45	3.78	3.78		

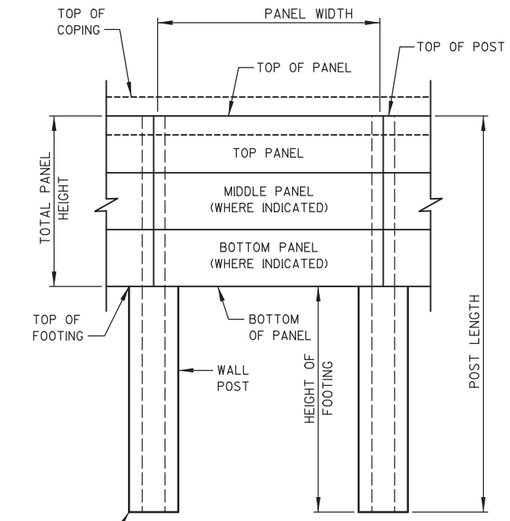
STATE PROJECT NUMBER

1206-07-77

GENERAL NOTES

ALL PANELS SHALL BE RECTANGULAR EXCEPT AS INDICATED BELOW.

POST STATION IS GIVEN AT CENTER OF POST.



WALL NOMENCLATURE LEGEND

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-236

DRAWN BY DTH | PLANS CK'D. BMO

WALL LAYOUT DATA - 2

SHEET 5 OF 6
1060

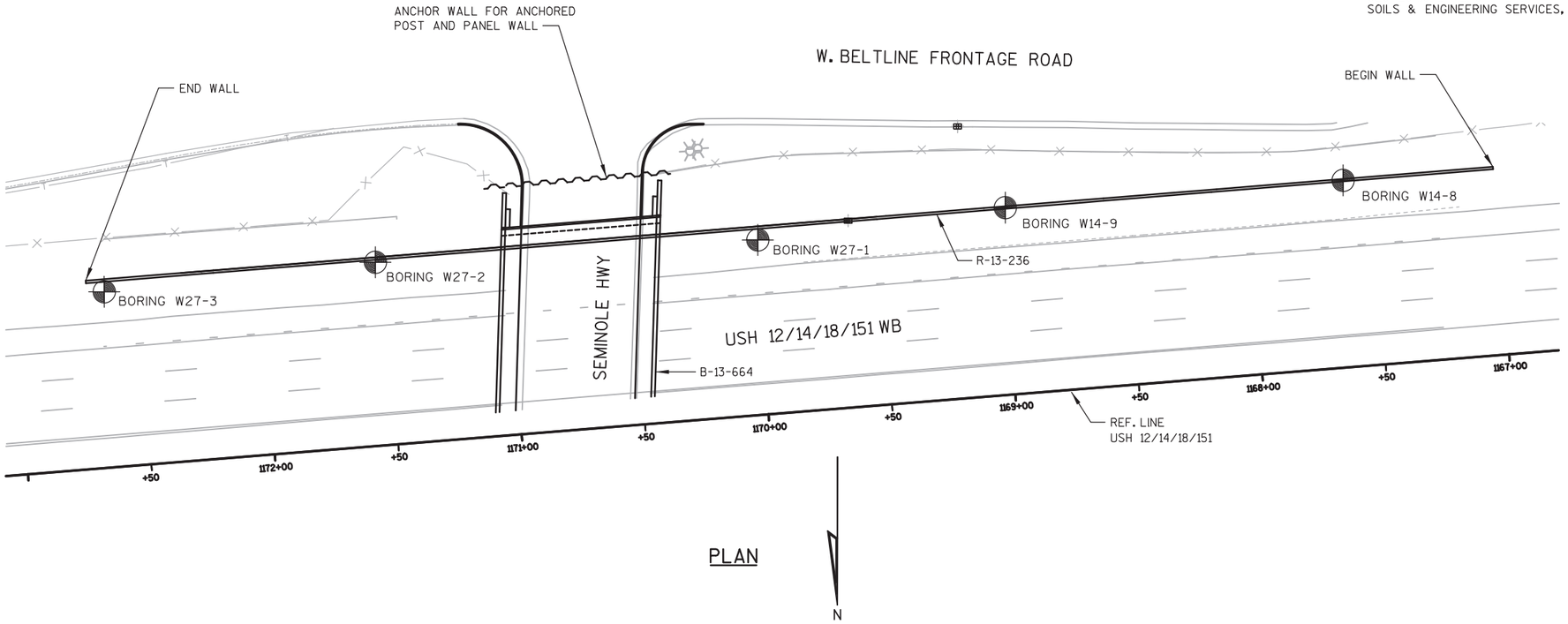
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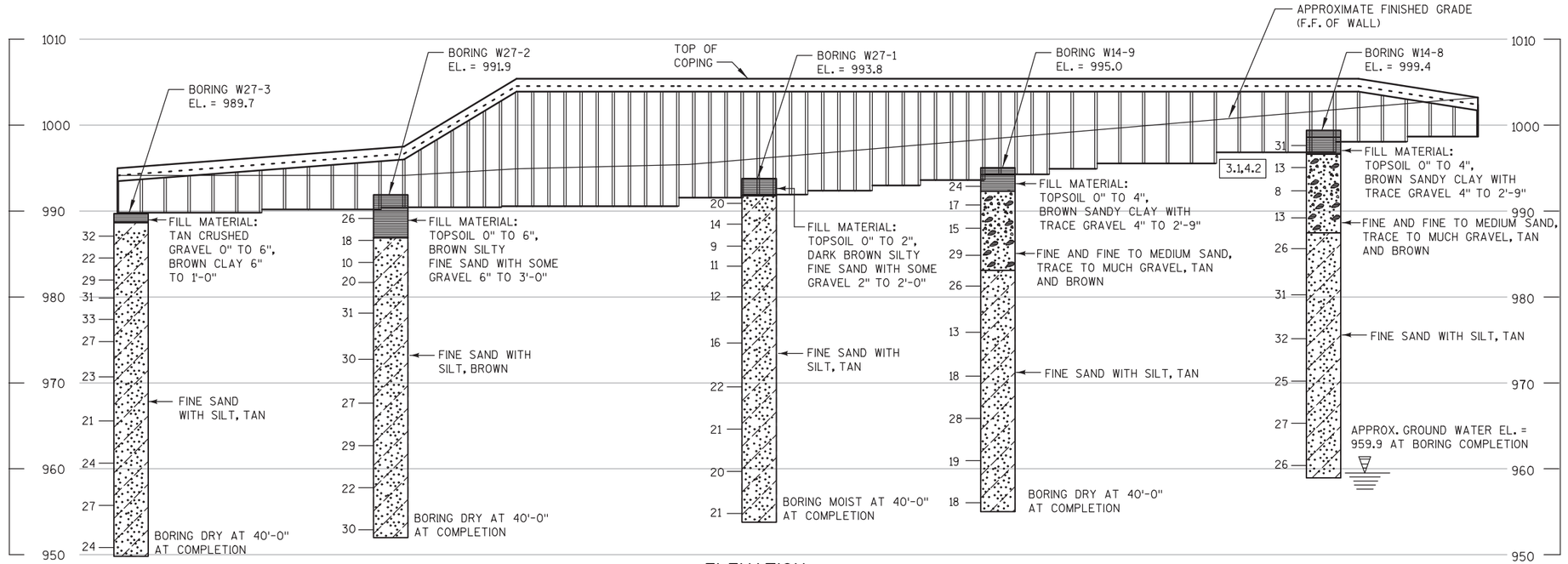
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\080304_wd.DGN

BORINGS PERFORMED BY:
SOILS & ENGINEERING SERVICES, INC.
DATE OF BORINGS:
APRIL 28, 2011 AND OCTOBER 9, 2012

GEOTECHICAL REPORT BY:
SOILS & ENGINEERING SERVICES, INC.



PLAN



ELEVATION

(LOOKING SOUTH AT FRONT FACE OF WALL)

STATE PROJECT NUMBER

1206-07-77

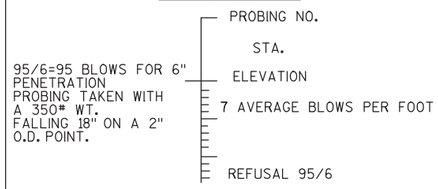
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

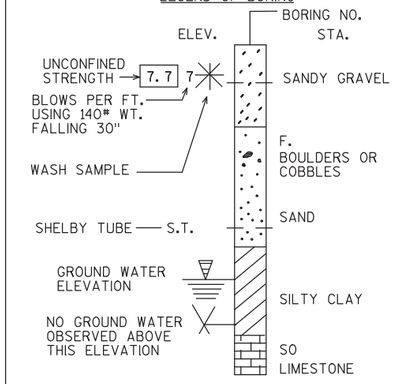
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-236

DRAWN BY RRD | PLANS CK'D. BMO

SUBSURFACE EXPLORATION

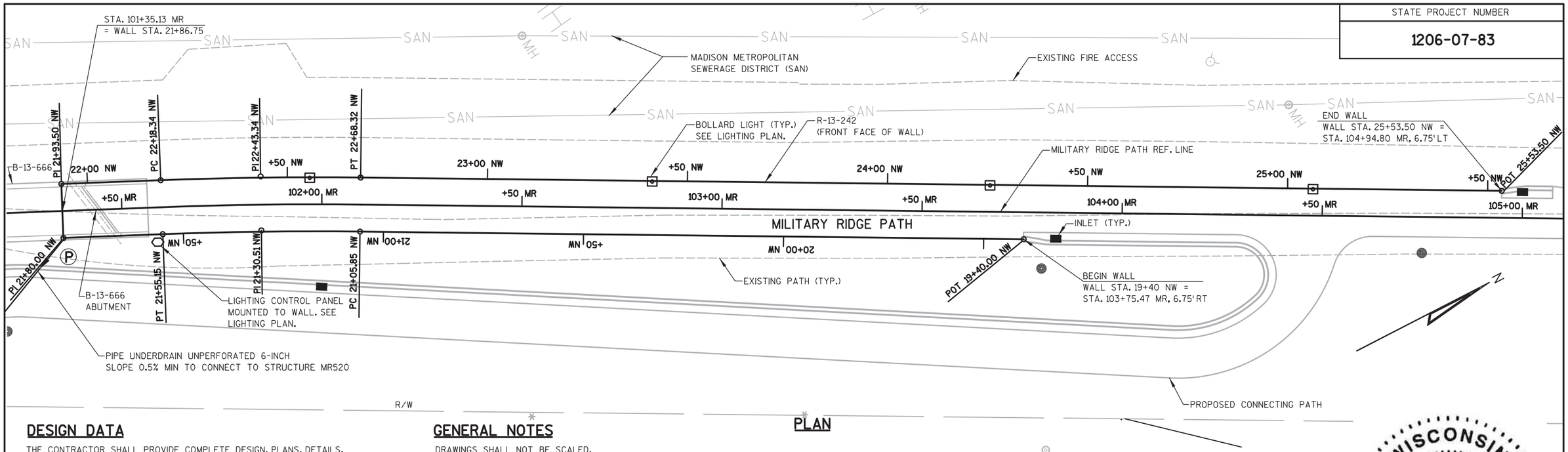
SHEET 6 OF 6
1061

8

8

STATE PROJECT NUMBER

1206-07-83



PLAN

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN IN THIS PLAN.

DESIGN FOR THE RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 120 PSF.

CONCRETE MASONRY, COPING _____ f'c = 3,500 PSI

HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 _____ fy = 60,000 PSI

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30 DEGREES WITHOUT CERTIFIED TEST VALUES.

LOCATION OF RETAINING WALL REINFORCEMENT STRAPS SHALL BE COORDINATED WITH B-13-666 ABUTMENT PILE LOCATIONS.

DESIGN THE MSE WALL IN FRONT OF THE ABUTMENT TO RESIST THE FORCE FROM HORIZONTAL EARTH PRESSURES ACTING ON THE BACK LOWER 2.5 FEET OF THE ABUTMENT. THIS FORCE MAY BE DISTRUBIUTED OVER THE DISTANCE FROM THE BACK OF THE ABUTMENT TO THE BACK OF PANELS IN FRONT OF THE ABUTMENT.

CONCRETE WALL PANELS FOR THE BACK-TO-BACK WALLS SHALL BE TIED TOGETHER.

ALLOWABLE WALL SYSTEMS

1. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH, LRFD.

LEGEND

(P) PROVIDE PIPE UNDERDRAIN UNPERFORATED 6 INCH FROM WALL UNDERDRAIN SYSTEM TO INLET MR520. UNDERDRAIN HOLES SHALL BE CAST INTO THE MSE WALL PANEL.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE PLAN QUANTITY FOR THE BID ITEM WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 2'-6" FT BELOW FINISHED GRADE.

ONLY WALL CONCRETE PANEL MSE WALL SYSTEMS THAT ARE HINGED AT THE PANEL CONNECTION CAN BE USED FOR THIS PROJECT.

ALL BAR STEEL REINFORCEMENT IN CAST IN PLACE CONCRETE IS TO BE EPOXY COATED.

THE QUANTITY OF CONCRETE MASONRY FOR THE TYPICAL CAST IN PLACE COPING IS INCLUDED WITH THE ITEM "CONCRETE MASONRY RETAINING WALLS". THE STANDARD WALL COPING IN FRONT OF THE ABUTMENT IS INCLUDED WITH THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL EXPOSED EDGES OF CONCRETE ¾-INCH, UNLESS NOTED OTHERWISE.

ALL DIMENSIONS, STATIONS, AND OFFSETS ARE GIVEN AT THE FRONT FACE OF THE WALL, UNLESS OTHERWISE SHOWN. THE 'NW' STATIONING IS AT THE FRONT FACE OF THE WALL

A NAME PLATE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. CENTER NAME PLATE ON COPING.

EBS EXCAVATION AS REQUIRED IS INCLUDED WITH THE ROADWAY PLANS. THE FINAL WALL FOUNDATION SUBGRADE SHALL BE APPROVED BY THE REGIONAL GEOTECHNICAL ENGINEER.

A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS STRUCTURE AND IS AVAILABLE UPON REQUEST FROM WISDOT'S SW REGION OFFICE.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
504.0500	CONCRETE MASONRY RETAINING WALLS	C.Y.	68
505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	3,690
517.1010.S.06	CONCRETE STAINING	S.F.	6,030
517.1050.S.04	ARCHITECTURAL SURFACE TREATMENT	S.F.	4,820
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	L.F.	30
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	L.F.	615
SPV.0105.18	RAILING STEEL TYPE C3 GALVANIZED PEDESTRIAN, R-13-242	L.S.	1
SPV.0165.03	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD, R-13-242	S.F.	6,950

ALIGNMENT DATA

P.I. = 19+40.00 NW
Y = 461,558.1951
X = 798,374.5943

P.I. = 21+93.50 NW
Y = 461,363.99
X = 798,232.10

P.I. = 21+30.51 NW
Y = 461,399.59
X = 798,269.05
DELTA = 2° 50' 38" (LT)
D = 5° 46' 07"
T = 24.66'
L = 49.30'
R = 993.25'
P.C. = 21+05.85 NW
Y = 461,420.12
X = 798,282.71
P.T. = 21+55.15 NW
Y = 461,378.42
X = 798,256.42

P.I. = 22+43.34 NW
Y = 461,406.79
X = 798,257.62
DELTA = 2° 50' 39" (RT)
D = 5° 41' 28"
T = 24.99'
L = 49.97'
R = 1,006.75'
P.C. = 22+18.34 NW
Y = 461,385.33
X = 798,244.83
P.T. = 22+68.32 NW
Y = 461,427.60
X = 798,271.47

P.I. = 21+80.00 NW
Y = 461,357.07
X = 798,243.70

P.I. = 25+53.50 NW
Y = 461,665.01
X = 798,429.46

LIST OF DRAWINGS

1. GENERAL PLAN
2. ELEVATION VIEW / RAILING LAYOUT
3. DESIGN TABLES
4. TYPICAL SECTIONS
5. DETAILS
6. RAILING DETAILS
7. ASETHETIC DETAILS
8. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS

SW REGION CONTACT: MARK VESPERMAN, (608) 246-7548

BUREAU OF STRUCTURES CONTACT: BILL DREHER, (608) 266-8489

CONSULTANT CONTACT: BRETT OFTEDAHL, (608) 251-4843

WISCONSIN
BRETT M. OFTEDAHL
E-41123
MADISON
WI
PROFESSIONAL ENGINEER
Brett Oftedahl
2/19/13

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
2	127+58.33 PD, 59.26' LT	TOP NUT OF HYDRANT	1000.94

NO.	DATE	REVISION	BY

STRAND ASSOCIATES
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 02/21/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-242

MILITARY RIDGE BIKE PATH AT CTH PD

COUNTY DANE
~~TOWN~~/CITY/~~VILLAGE~~ FITCHBURG

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
VLM	BMO	VLM	BMO

GENERAL PLAN

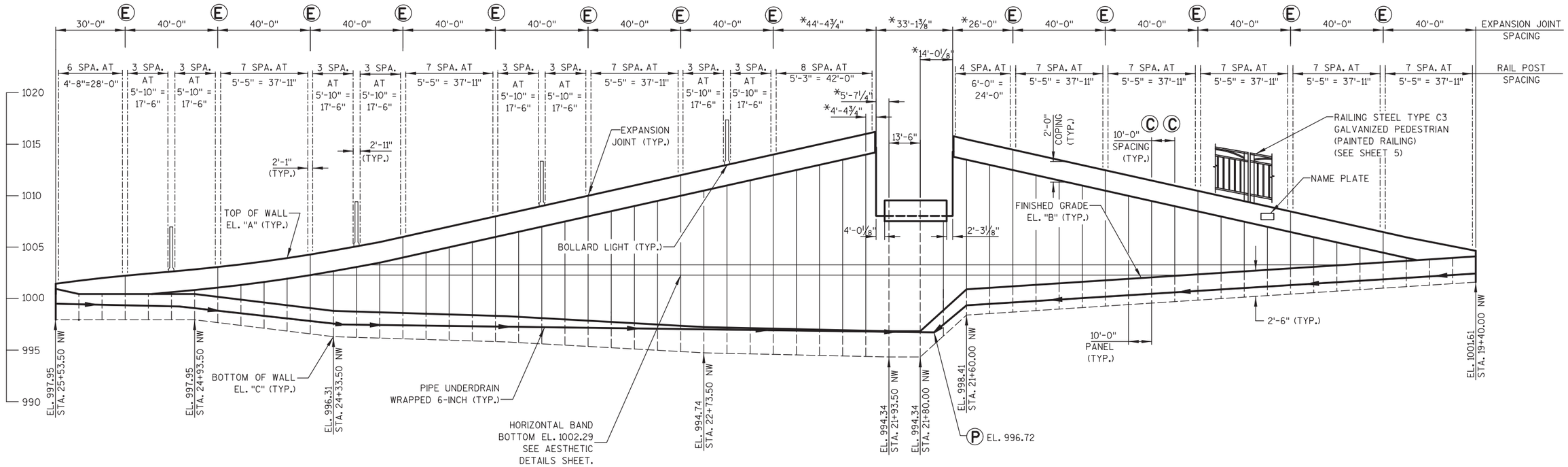
SHEET 1 OF 8

1062

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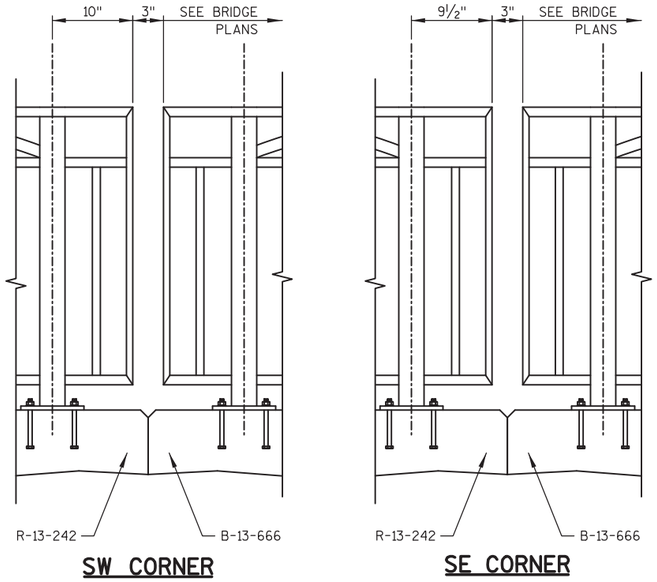
STATE PROJECT NUMBER

1206-07-83



UNWRAPPED ELEVATION VIEW

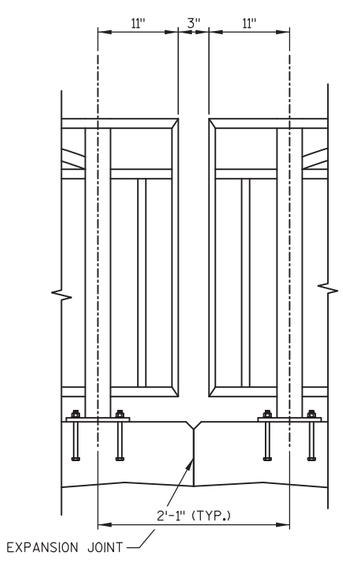
(LOOKING AT FRONT FACE OF WALL)



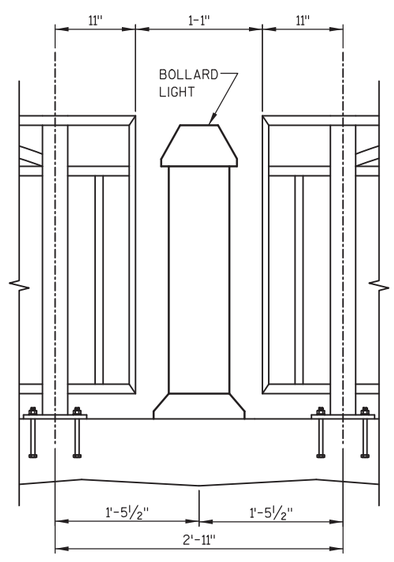
SW CORNER

SE CORNER

RAILING DETAIL AT ABUTMENT



TYPICAL RAILING DETAIL AT EXPANSION JOINT



RAILING DETAIL AT BOLLARD LOCATIONS

LEGEND

- (E) EXPANSION JOINT IN C.I.P. CONCRETE COPING
- (P) PROVIDE PIPE UNDERDRAIN UNPERFORATED 6 INCH FROM WALL UNDERDRAIN SYSTEM TO INLET MR520. UNDERDRAIN HOLES SHALL BE CAST INTO THE MSE WALL PANEL.
- (C) CONTRACTION JOINT IN C.I.P. CONCRETE COPING

NOTES:

SEE SHEET 3 FOR GEOMETRY TABLE.

HORIZONTAL WALL PANEL JOINTS NOT SHOWN.

* DIMENSIONS ARE MEASURED TO END OF WALL PANEL, NOT COPING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-242

DRAWN BY VLM | PLANS CK'D. BMO

ELEVATION VIEW
RAILING LAYOUT

SHEET 2
1063

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8

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STATE PROJECT NUMBER

1206-07-83

GEOMETRY TABLE

MAINLINE STATION	WALL STATION	EL. "A" TOP OF WALL	EL. "B" FINISHED GROUND	EL. "C" BOTTOM OF WALL
103+75.47	19+40.00	1004.65	1004.11	1001.61
103+65.47	19+50.00	1005.05	1003.96	1001.46
103+55.47	19+60.00	1005.49	1003.82	1001.32
103+45.47	19+70.00	1005.96	1003.67	1001.17
103+35.47	19+80.00	1006.50	1003.53	1001.03
103+25.47	19+90.00	1007.03	1003.38	1000.88
103+15.47	20+00.00	1007.57	1003.24	1000.74
103+05.47	20+10.00	1008.10	1003.09	1000.59
102+95.47	20+20.00	1008.64	1002.95	1000.45
102+85.47	20+30.00	1008.97	1002.80	1000.30
102+75.47	20+40.00	1009.47	1002.66	1000.16
102+65.47	20+50.00	1009.97	1002.51	1000.01
102+55.47	20+60.00	1010.47	1002.36	999.86
102+45.47	20+70.00	1010.97	1002.22	999.72
102+35.47	20+80.00	1011.47	1002.07	999.57
102+25.47	20+90.00	1011.97	1001.93	999.43
102+15.47	21+00.00	1012.47	1001.78	999.28
102+05.44	21+10.00	1012.97	1001.64	999.14
101+95.37	21+20.00	1013.47	1001.49	998.99
101+85.31	21+30.00	1013.97	1001.35	998.85
101+75.24	21+40.00	1014.47	1001.20	998.70
101+65.17	21+50.00	1014.97	1001.06	998.56
101+55.13	21+60.00	1015.47	1000.91	998.41
101+49.55	21+65.58	1015.77	999.77	997.27
101+49.55	21+65.58	*	999.77	997.27
101+49.13	21+66.00	*	999.69	997.19
101+49.13	21+66.00	1007.95	999.69	997.19
101+46.87	21+68.26	1007.95	999.17	996.67
101+46.87	21+68.26	1009.53	999.17	996.67
101+35.13	21+80.00	1009.53	996.84	994.34
101+35.13	21+93.50	1009.53	996.84	994.34
101+36.72	21+95.09	1009.53	996.85	994.35
101+36.72	21+95.09	1007.95	996.85	994.35
101+40.73	21+99.10	1007.95	996.87	994.37
101+40.73	21+99.10	*	996.87	994.37
101+41.16	21+99.52	*	996.87	994.37
101+41.16	21+99.52	1016.19	996.87	994.37

MAINLINE STATION	WALL STATION	EL. "A" TOP OF WALL	EL. "B" FINISHED GROUND	EL. "C" BOTTOM OF WALL
101+45.13	22+03.50	1015.99	996.89	994.39
101+55.13	22+13.50	1015.49	996.94	994.44
101+65.09	22+23.50	1014.99	996.99	994.49
101+75.03	22+33.50	1014.49	997.04	994.54
101+84.96	22+43.50	1013.99	997.09	994.59
101+94.89	22+53.50	1013.49	997.14	994.64
102+04.83	22+63.50	1012.99	997.19	994.69
102+14.80	22+73.50	1012.49	997.24	994.74
102+24.80	22+83.50	1011.99	997.36	994.86
102+34.80	22+93.50	1011.49	997.49	994.99
102+44.80	23+03.50	1010.99	997.61	995.11
102+54.80	23+13.50	1010.49	997.74	995.24
102+64.80	23+23.50	100.99	997.86	995.36
102+74.80	23+33.50	1009.49	997.99	995.49
102+84.80	23+43.50	1008.99	998.11	995.61
102+94.80	23+53.50	1008.49	998.24	995.74
103+04.80	23+63.50	1007.99	998.33	995.83
103+14.80	23+73.50	1007.49	998.40	995.90
103+24.80	23+83.50	1006.99	998.47	995.97
103+34.80	23+93.50	1006.49	998.54	996.04
103+44.80	24+03.50	1005.99	998.61	996.11
103+54.80	24+13.50	1005.49	998.67	996.17
103+64.80	24+23.50	1005.08	998.74	996.24
103+74.80	24+33.50	1004.67	998.81	996.31
103+84.80	24+43.50	1004.29	999.08	996.58
103+94.80	24+53.50	1003.94	999.36	996.86
104+04.80	24+63.50	1003.62	999.63	997.13
104+14.80	24+73.50	1003.33	999.90	997.40
104+24.80	24+83.50	1003.07	1000.18	997.68
104+34.80	24+93.50	1002.84	1000.45	997.95
104+44.80	25+03.50	1002.63	1000.45	997.95
104+54.80	25+13.50	1002.43	1000.45	997.95
104+64.80	25+23.50	1002.23	1000.45	997.95
104+74.80	25+33.50	1002.00	1000.45	997.95
104+84.80	25+43.50	1001.74	1000.45	997.95
104+94.80	25+53.50	1001.45	1000.95	997.95

*TOP OF MSE PANEL ELEVATION AT THIS LOCATION TO BE DETERMINED BY WALL DESIGNER

SOIL PARAMETERS

SOIL PARAMETERS			
STRATUM LOCATIONS & SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT	FRICTION ANGLE	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	0
BORING B1-5			
TOP SOIL EL. 997.30 - EL. 995.50	125	0	1900
CLAY EL. 995.50 - EL. 990.30	122	0	1000
GRAVEL WITH SILT AND SAND EL. 990.30 - EL. 975.50	140	38	0
SAND WITH SILT EL. 975.50 - EL. 890.50	133	33	0
BORING MR-3			
TOP SOIL EL. 998.10 - EL. 995.10	125	0	0
CLAY EL. 995.10 - EL. 992.60	122	0	1100
GRAVEL WITH SILT AND SAND EL. 992.60 - EL. 976.10	135	34	0
SAND WITH SILT EL. 976.10 - EL. 958.10	133	33	0
BORING MR-4			
FILL MATERIAL EL. 998.00 - EL. 996.00	130	0	0
TOPSOIL EL. 996.00 - EL. 992.50	125	0	0
CLAY EL. 992.50 - EL. 989.80	122	0	4300
GRAVEL WITH SAND AND SILT EL. 989.80 - EL. 976.00	130	31	0
SAND WITH SILT EL. 976.00 - EL. 968.00	133	33	0

WALL EXTERNAL & OVERALL STABILITY EVALUATION

WALL EXTERNAL & OVERALL STABILITY EVALUTATION			
DIMENSIONS	EVALUATED LOCATIONS UPPER	LOWER	
WALL HEIGHT (FEET)	20.6	14.8	6.0
EXPOSED WALL HEIGHT (FEET)	18.1	12.3	3.5
* MINIMUM LENGTH OF REINFORCEMENT (FEET)	12**	12**	8
STATION - MILITARY RIDGE PATH REFERENCE. LINE	101+50	102+50	104+00
BORING USED	B1-5	MR-3	MR-4
CAPACITY TO DEMAND RATIO (CDR)			
SLIDING (CDR > 1.0)	11.1	8.0	2.4
ECCENTRICITY (CDR > 1.0)	34.6	23.7	5.4
OVERALL STABILITY (CDR > 1.0)	-	2.0	-
BEARING RESISTANCE (CDR > 1.0)	1.0	1.3	2.7
FACTORED BEARING RESISTANCE (PSF)	3200	3200	3200

THE ANALYSIS WAS BASED ON AN UNDERCUT DEPTH OF 4'.

MINIMUM UNCONFINED COMPRESSIVE STRENGTH OF 2000 PSF (AS MEASURED ON SITE USING A SPRING PENETROMETER) IS REQUIRED FOR THE SUBGRADE.

* MINIMUM LENGTH APPLIES ONLY AT CORRESPONDING WALL STATIONS. FINAL DESIGN FOR INTERAL STABILITY AND EXTERNAL SLIDING AND ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR'S WALL DESIGNER.

** REINFORCEMENT STRAPS MUST CONNECT THE EAST AND WEST WALL PANELS TOGETHER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-242

DRAWN BY VLM | PLANS CK'D. BMO

DESIGN TABLES

SHEET 3
1064

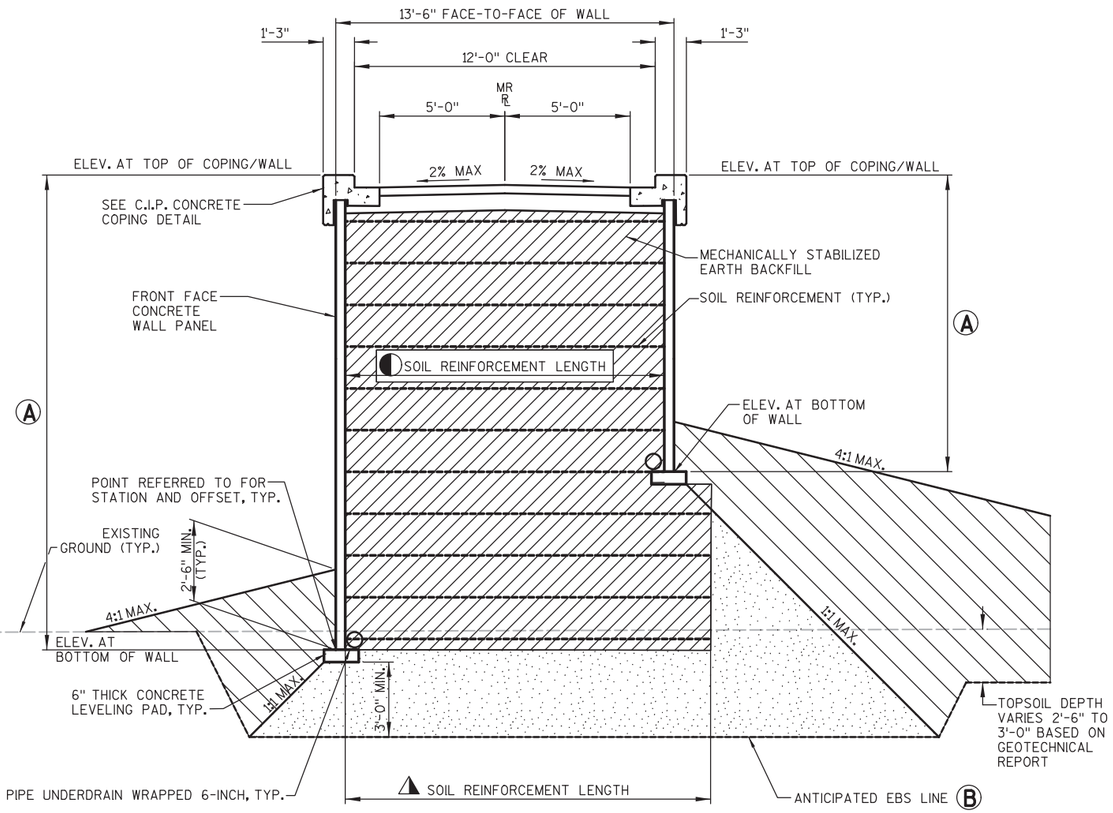
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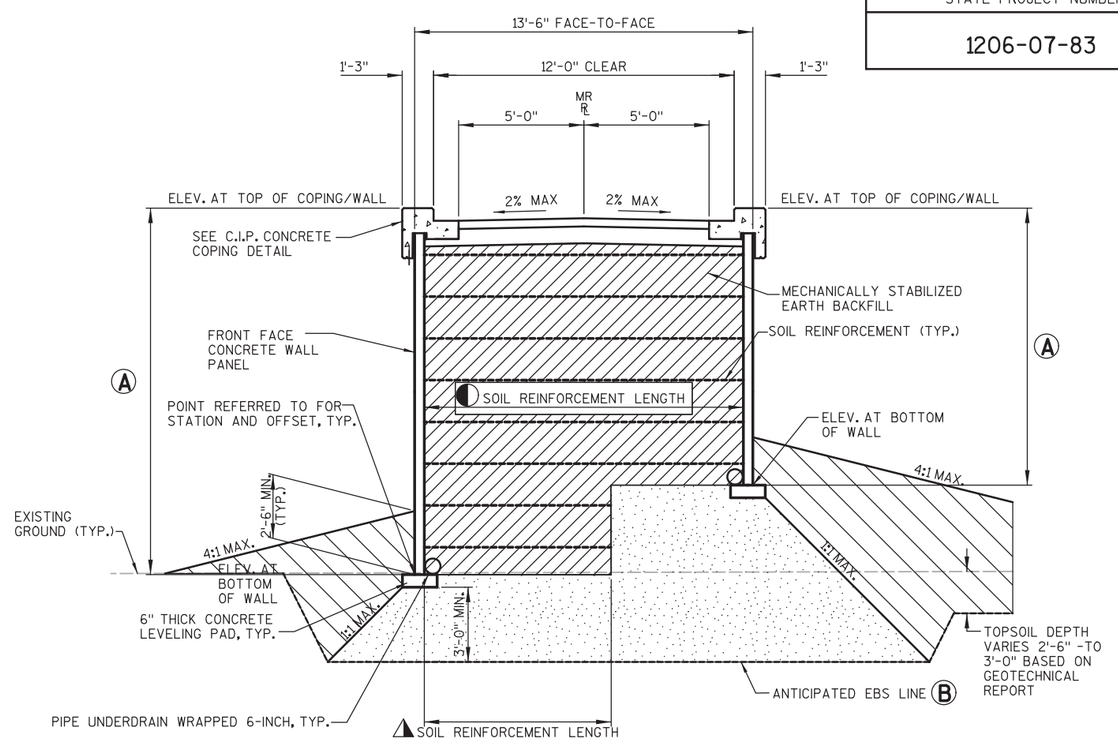
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STATE PROJECT NUMBER

1206-07-83



TYPICAL SECTION THRU MSE RETAINING WALL



TYPICAL SECTION THRU MSE RETAINING WALL

NOTES:

▲ MINIMUM LENGTH OF MSE WALL REINFORCEMENT STRIPS MUST BE 70% THE TOTAL WALL HEIGHT (EXPOSED HEIGHT PLUS EMBEDMENT DEPTH) OR 8.0 FEET, WHICHEVER IS GREATER. SOIL REINFORCEMENT MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

◐ IN AREAS OF BACK TO BACK MSE RETAINING WALLS, THE REINFORCEMENT STRAPS SHALL CONNECT THE BACK TO BACK PANELS TO EACH OTHER.

RAILING ON TOP OF WALL COPING NOT SHOWN.

Ⓐ PAY LIMITS FOR BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD"

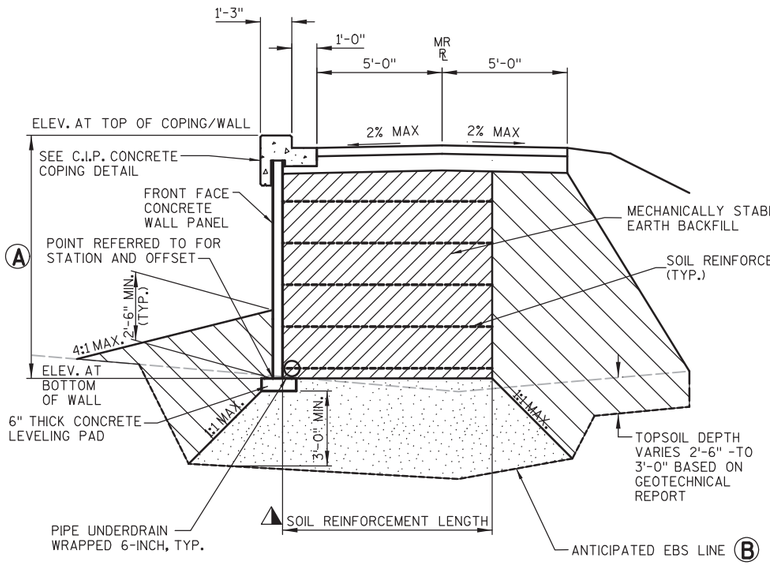
Ⓑ ALL WALL FOUNDATION SUBGRADE SHALL BE APPROVED BY THE REGIONAL GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF BACKFILL GRANULAR

LEGEND

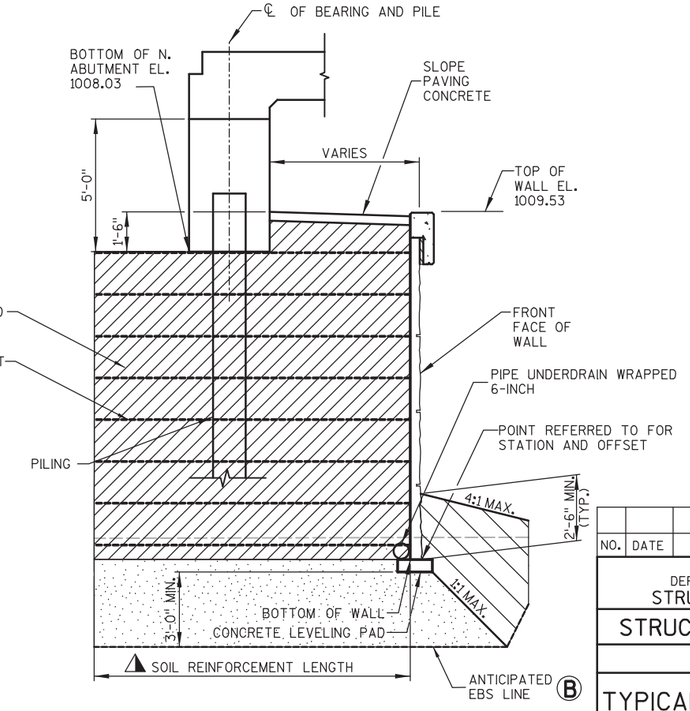
EARTHWORK INCLUDED WITH EXCAVATION COMMON AND BACKFILL GRANULAR BID ITEMS IN ROADWAY PLANS

FILL INCLUDED WITH EXCAVATION COMMON AND BORROW BID ITEMS IN ROADWAY PLANS

FILL INCLUDED WITH BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".



TYPICAL SECTION THRU MSE RETAINING WALL



SECTION AT ABUTMENT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-242

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TYPICAL SECTIONS | SHEET 4
1065

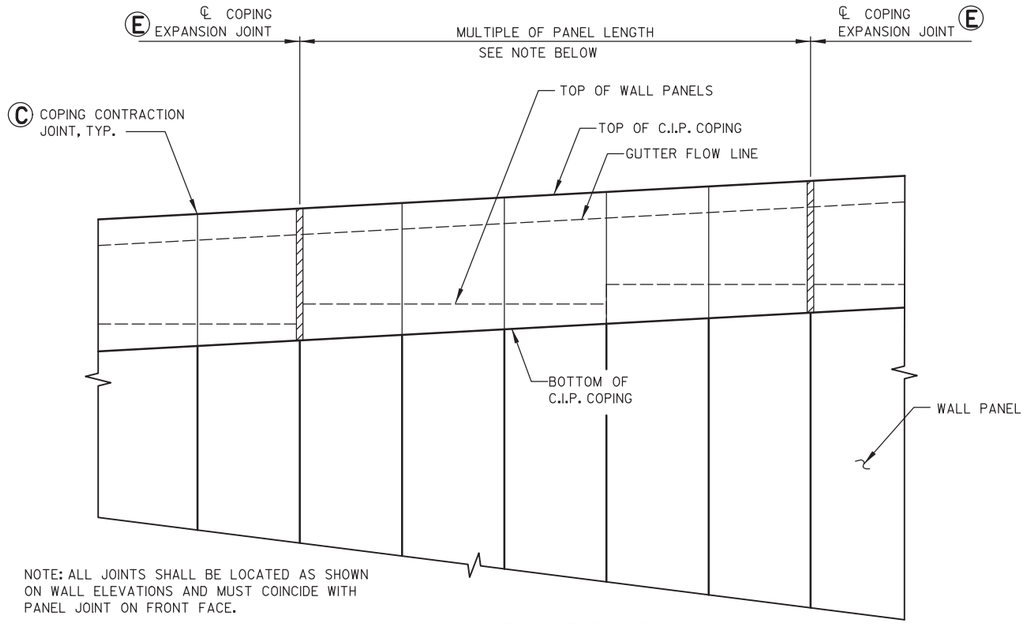
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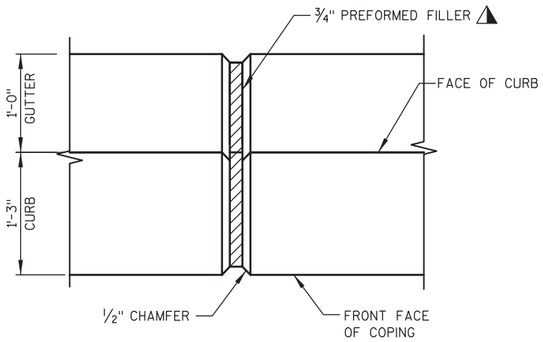
STATE PROJECT NUMBER

1206-07-83



NOTE: ALL JOINTS SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS AND MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

C.I.P. COPING PARTIAL ELEVATION

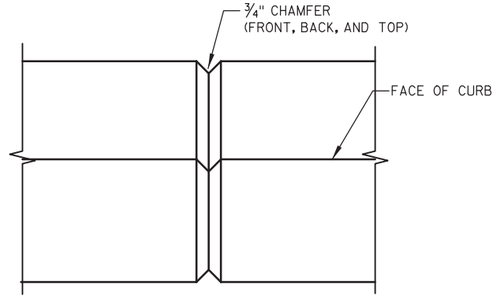


COPING EXPANSION JOINT (E)

DO NOT RUN BAR STEEL THRU JOINTS.
MAX. SPACING OF JOINT = 50'-0".
CENTER FILLER AND JOINT AT ℄ OF PANEL JOINTS.
PLACE JOINTS VERTICAL.

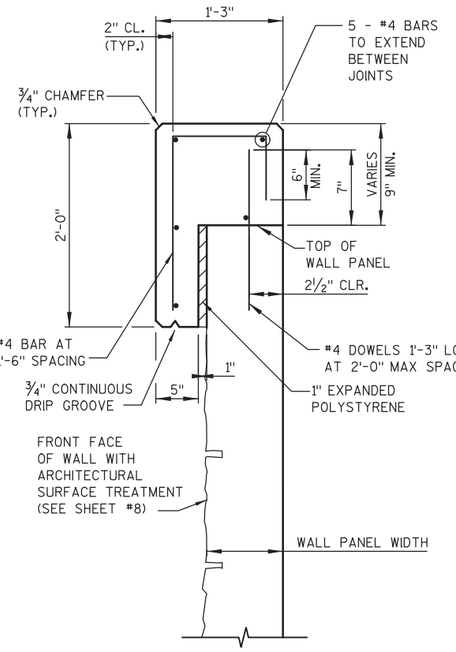
LEGEND

⚠ SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).



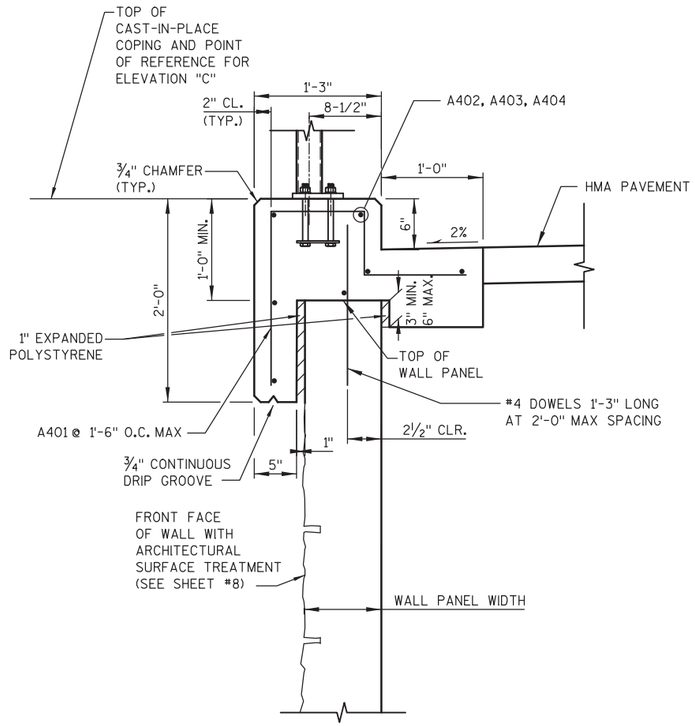
COPING CONTRACTION JOINT (C)

DO NOT RUN BAR STEEL THRU JOINTS.
SPACING OF JOINT = 10'-0".
CENTER JOINTS ON PANEL JOINTS.
PLACE JOINTS VERTICAL.

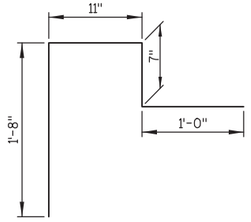


C.I.P. COPING IN FRONT OF ABUTMENT

(CAST IN PLACE CONCRETE AND STEEL REINFORCEMENT FOR COPING INCLUDED WITH THE ITEM "WALL CONCRETE PANEL MSE LRFD")



TYPICAL C.I.P. CONCRETE COPING DETAIL



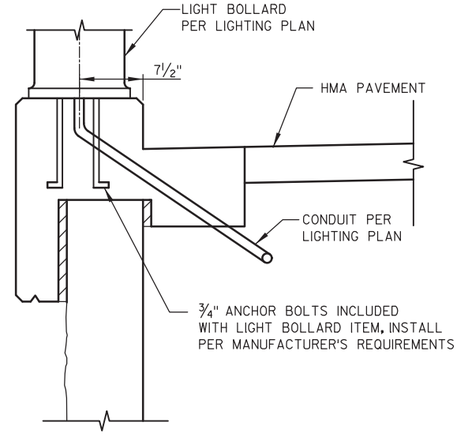
A401

BILL OF BARS

COATED: 3,690 LBS

MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
A401	406	3'-11"	X	X	COPING - VERTICAL
A402	399	9'-8"		X	COPING - HORIZONTAL
A403	7	3'-7"		X	COPING - HORIZ. - AT ABUT. (WEST)
A404	7	5'-5"		X	COPING - HORIZ. - AT ABUT. (EAST)

BAR DIMENSIONS ARE OUT TO OUT OF BAR, UNLESS OTHERWISE NOTED.
BILL OF BARS INCLUDES REINFORCEMENT FOR TYPICAL COPING ONLY.
REINFORCEMENT FOR COPING IN FRONT OF ABUTMENT IS NOT INCLUDED.



BOLLARD LIGHT MOUNT ON COPING

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-242

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DETAILS

SHEET 5
1066

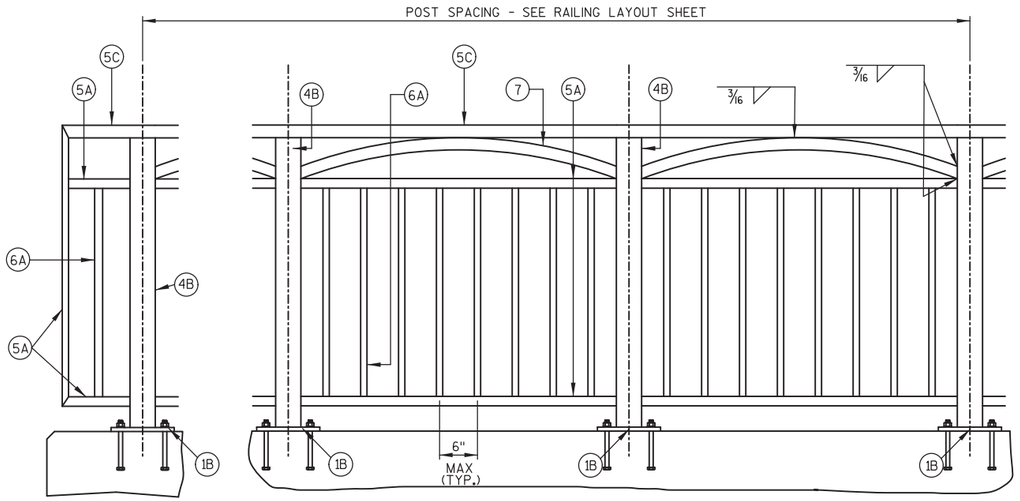
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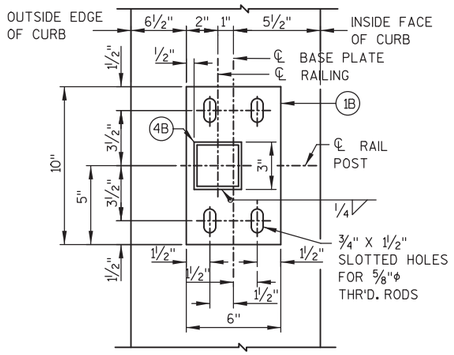
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STATE PROJECT NUMBER

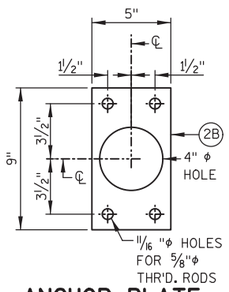
1206-07-83



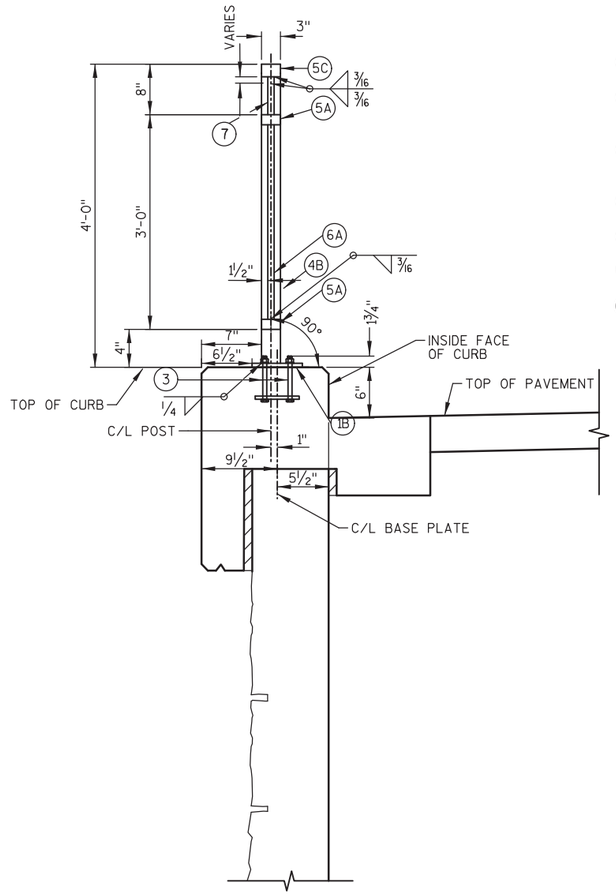
ELEVATION TYPE C3 MODIFIED



TYPICAL RAIL POST BASE PLATE



ANCHOR PLATE



SECTION THRU RAILING

LEGEND

- (1B) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES
- (2B) ¼" X 5" X 9" ANCHOR PLATE WITH 11/16 " φ HOLES FOR THR'D. RODS NO. 3.
- (3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), ⅝" φ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS.
- (4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.
- (5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS.
- (5C) STRUCTURAL TUBING 3" X 2" X 3/16" TOP RAIL. WELD TO NO. 1 AND NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- (7) BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.
- (9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".
- (10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C3 GALVANIZED PEDESTRIAN R-13-242", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 6, 7, 9 AND 10 SHALL CONFORM TO ASTM A709 GRADE 36.
STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (NO. 4, AND NO. 5).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

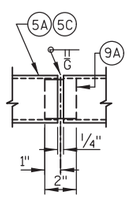
CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE SPECIAL PROVISIONS. THE RAILING SHALL BE PAINTED PANTONE MATCHING SYSTEM COLOR PMS 364 (GREEN).

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

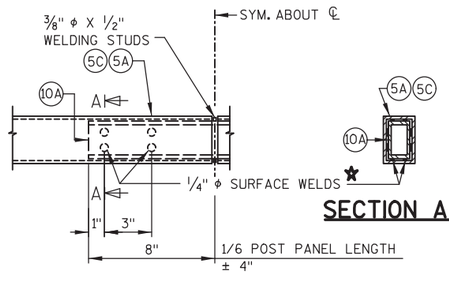
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



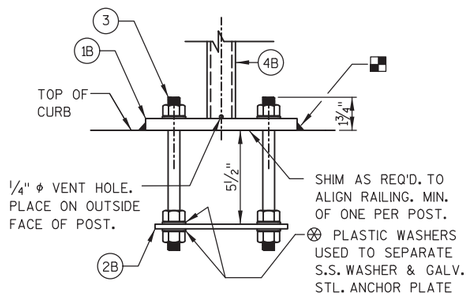
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



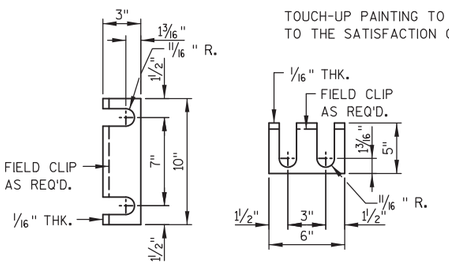
FIELD ERECTION JOINT DETAIL

★ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



RAIL POST SHIM DETAIL

(2 SETS PER POST)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-242

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RAILING DETAILS

SHEET 6
1067

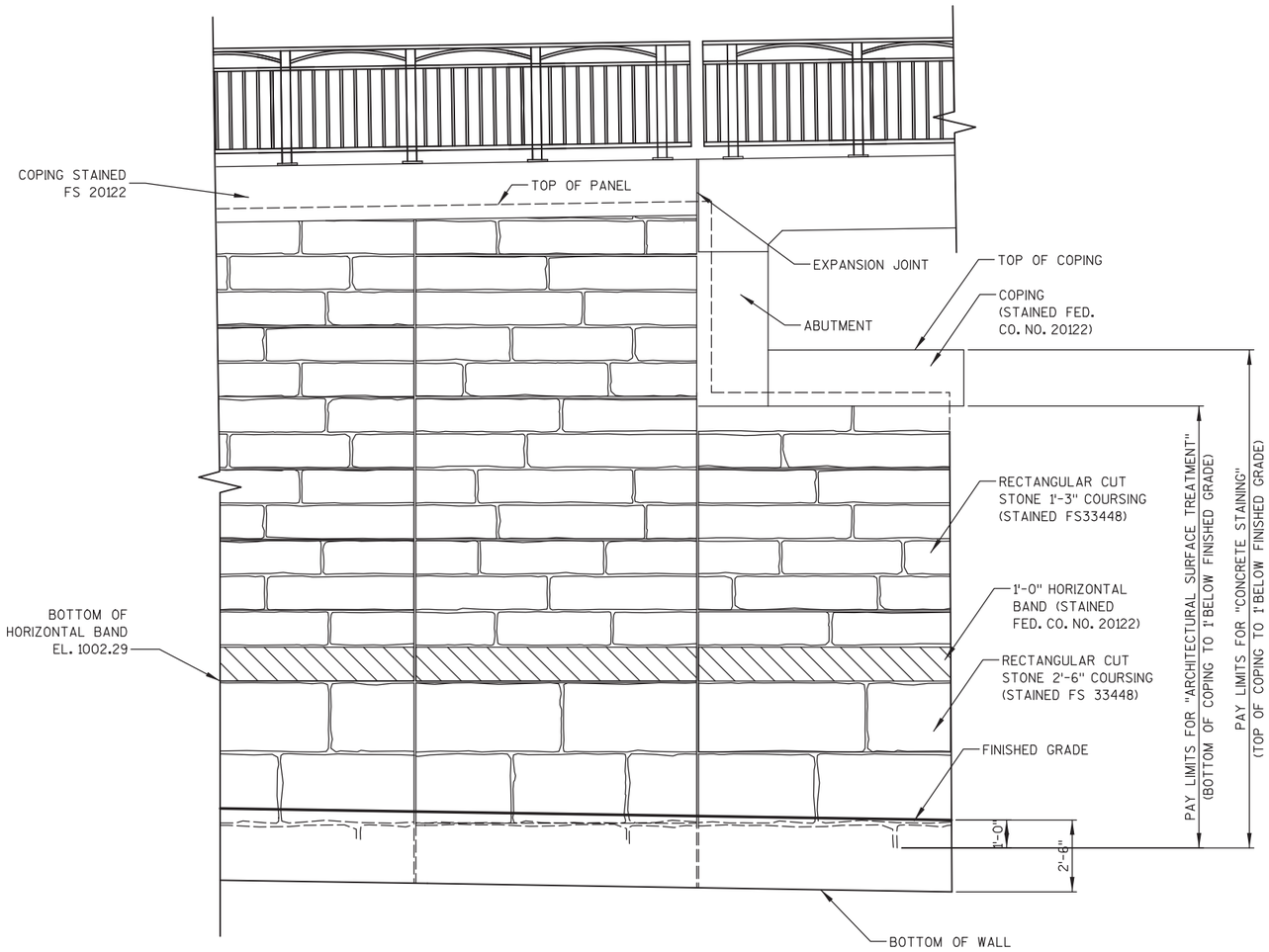
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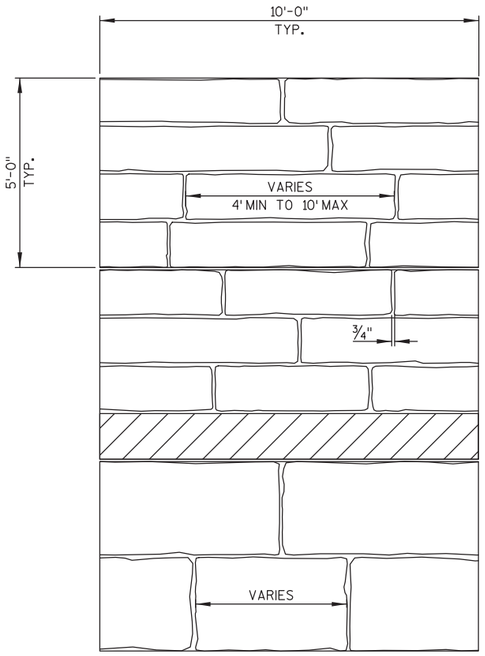
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STATE PROJECT NUMBER

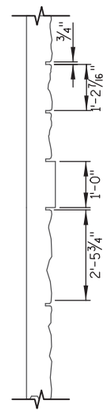
1206-07-83



FORMLINER DETAILS



TYPICAL PANEL DETAILS



TYPICAL PANEL CROSS SECTION

NOTES:

PROVIDE AESTHETIC DETAILS SHOWN IN THIS PLAN AND AS NOTED IN THE SPECIAL PROVISIONS.

ALL STONE EDGES ADJACENT TO HORIZONTAL PANEL JOINTS SHALL BE CUT STONE TEXTURE.

ALL STONE EDGES ADJACENT TO VERTICAL PANEL JOINTS SHALL BE FLUSH CUT.

AVERAGE RELIEF IS ¾" FOR THE STONES WITH A MAXIMUM RELIEF OF 2" FOR THE JOINTS.

ALL PANELS ARE TO BE STAINED PER DETAILS ON THIS SHEET.

ALL EXPOSED SURFACES OF FORMLINED BLOCKS TO BE SPLIT FACE INCLUDING FACES, CORNERS AND EDGES.

FORMLINER COURSING SHALL BE LEVEL AND CONTINOUS ACROSS VERTICAL PANEL JOINTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-242

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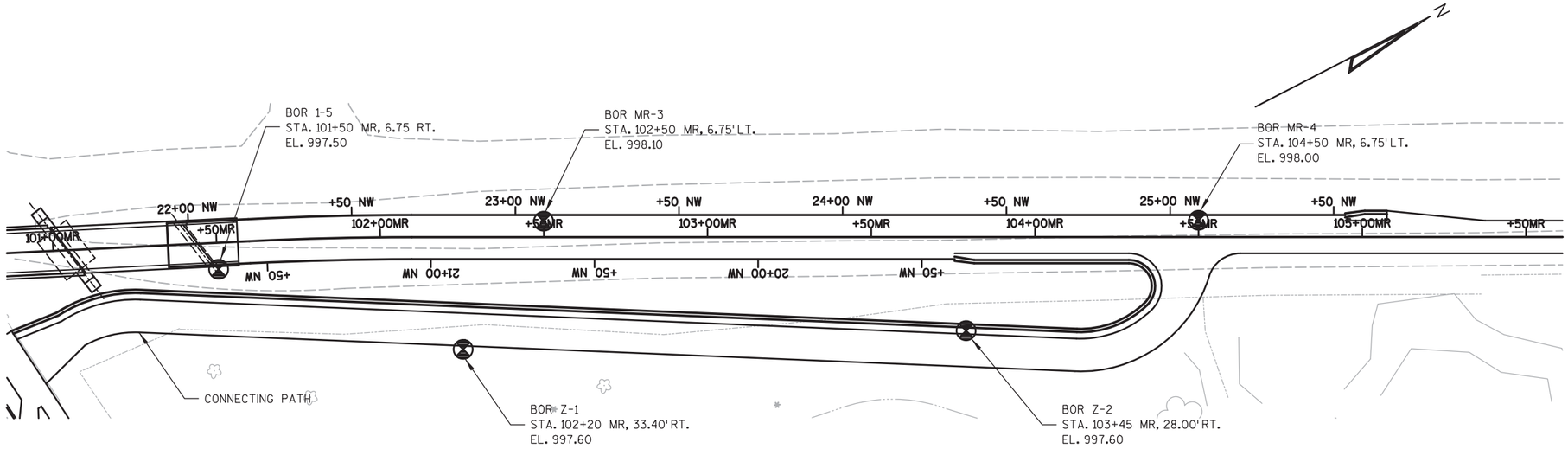
AESTHETIC DETAILS

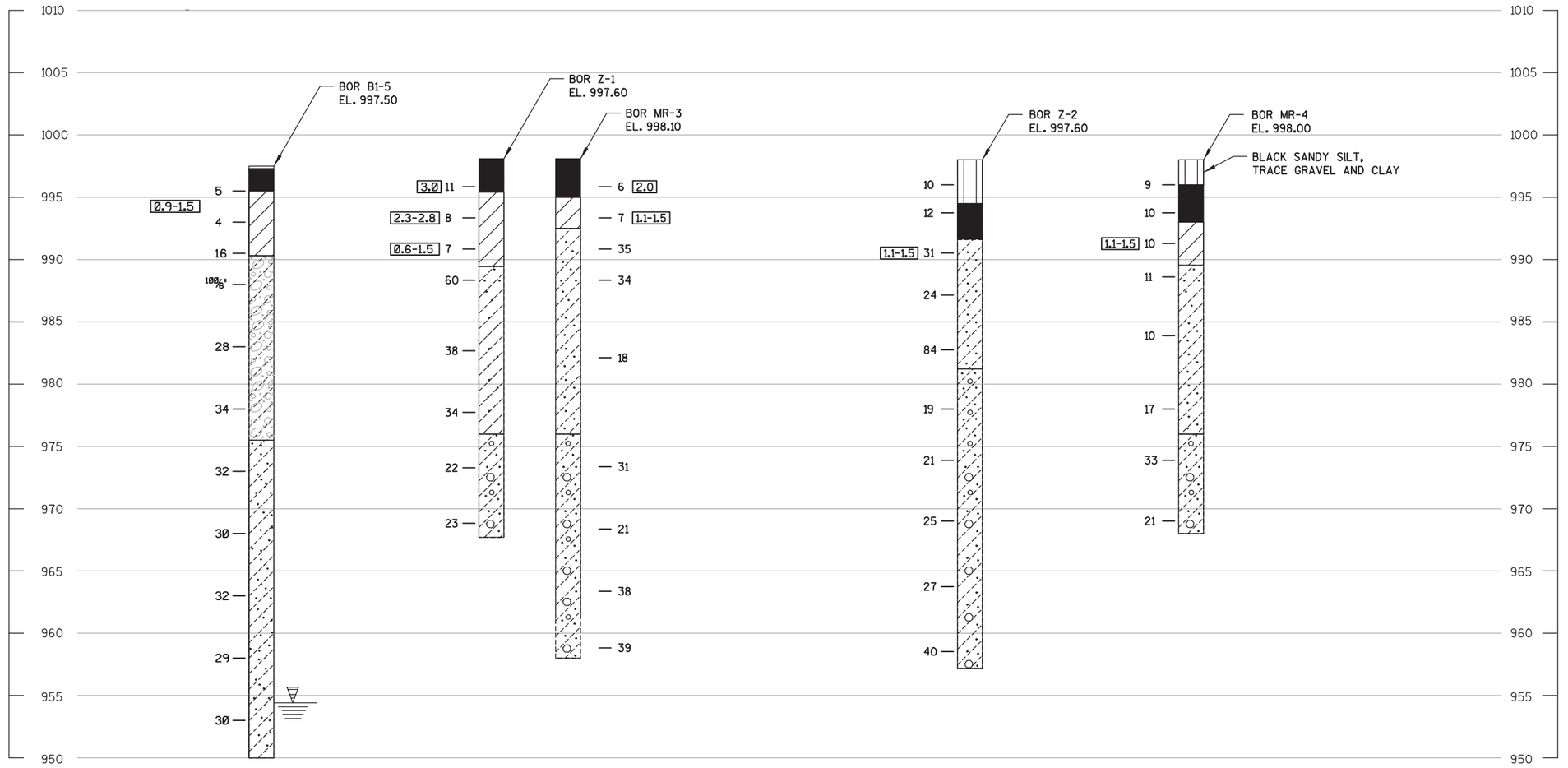
SHEET 7
1068

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STATE PROJECT NUMBER

1206-07-83

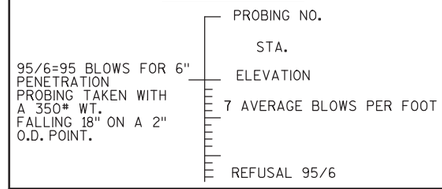
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

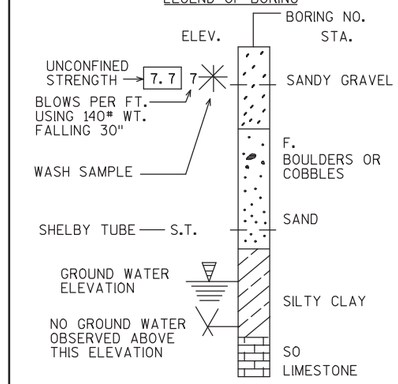
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-242

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SUBSURFACE EXPLORATION

SHEET 8
1069

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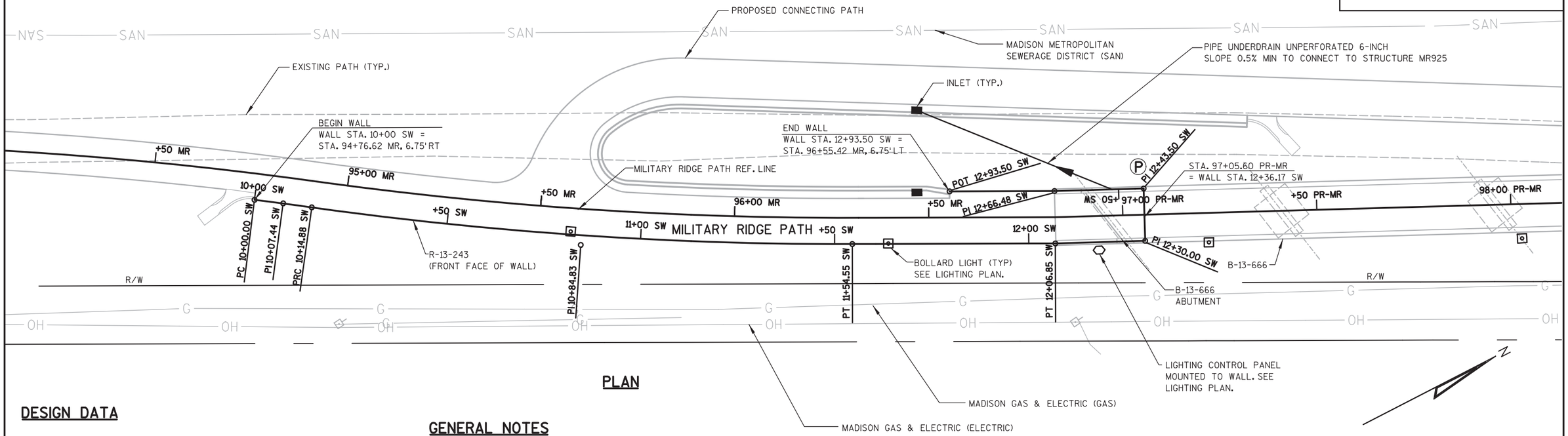
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STATE PROJECT NUMBER

1206-07-83



PLAN

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN IN THIS PLAN.

DESIGN FOR THE RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED AS SHOWN.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 120 PSF.

CONCRETE MASONRY, COPING _____ f'c = 3,500 PSI

HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 _____ fy = 60,000 PSI

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30 DEGREES WITHOUT CERTIFIED TEST VALUES.

LOCATION OF RETAINING WALL REINFORCEMENT STRAPS SHALL BE COORDINATED WITH B-13-666 ABUTMENT PILE LOCATIONS.

DESIGN THE MSE WALL IN FRONT OF THE ABUTMENT TO RESIST THE FORCE FROM HORIZONTAL EARTH PRESSURES ACTING ON THE BACK LOWER 2.5 FEET OF THE ABUTMENT. THIS FORCE MAY BE DISTRUBIUTED OVER THE DISTANCE FROM THE BACK OF THE ABUTMENT TO THE BACK OF PANELS IN FRONT OF THE ABUTMENT.

ALLOWABLE WALL SYSTEMS

1. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH, LRFD.

LEGEND

(P) PROVIDE PIPE UNDERDRAIN UNPERFORATED 6 INCH FROM WALL UNDERDRAIN SYSTEM TO INLET MR925. UNDERDRAIN HOLES SHALL BE CAST INTO THE MSE WALL PANEL.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE PLAN QUANTITY FOR THE BID ITEM WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 2'-6" FT BELOW FINISHED GRADE.

ONLY WALL CONCRETE PANEL MSE WALL SYSTEMS THAT ARE HINGED AT THE PANEL CONNECTION CAN BE USED FOR THIS PROJECT.

ALL BAR STEEL REINFORCEMENT IN CAST IN PLACE CONCRETE IS TO BE EPOXY COATED.

THE QUANTITY OF CONCRETE MASONRY FOR THE TYPICAL CAST IN PLACE COPING IS INCLUDED WITH THE ITEM "CONCRETE MASONRY RETAINING WALLS". THE STANDARD WALL COPING IN FRONT OF THE ABUTMENT IS INCLUDED WITH THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL EXPOSED EDGES OF CONCRETE ¾-INCH, UNLESS NOTED OTHERWISE.

ALL DIMENSIONS, STATIONING, AND OFFSETS ARE GIVEN AT THE FRONT FACE OF THE WALL, UNLESS OTHERWISE SHOWN. THE 'NW' STATIONING IS AT THE FRONT FACE OF THE WALL.

A NAME PLATE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. CENTER NAME PLATE ON COPING.

EBS EXCAVATION AS REQUIRED IS INCLUDED WITH THE ROADWAY PLANS. THE FINAL WALL FOUNDATION SUBGRADE SHALL BE APPROVED BY THE REGIONAL GEOTECHNICAL ENGINEER.

A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS STRUCTURE AND IS AVAILABLE UPON REQUEST FROM WISDOT'S SW REGION OFFICE.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
504.0500	CONCRETE MASONRY RETAINING WALLS	C.Y.	30
505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	1,630
517.1010.S.07	CONCRETE STAINING	S.F.	1,990
517.1050.S.05	ARCHITECTURAL SURFACE TREATMENT	S.F.	1,420
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	L.F.	50
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	L.F.	300
SPV.0105.19	RAILING STEEL TYPE C3 GALVANIZED PEDESTRIAN, R-13-243	L.S.	1
SPV.0165.04	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD, R-13-243	S.F.	2,430

ALIGNMENT DATA

P.I. = 10+07.44 SW
Y = 460,811.2923
X = 797,888.2278
DELTA = 0° 51' 31" (RT)
D = 5° 46' 07"
T = 7.44'
L = 14.88'
R = 993.25'
P.C. = 10+00.00 SW
Y = 460,805.6678
X = 797,883.3551
P.T. = 10+14.88 SW
Y = 460,816.8432
X = 798,893.1842

P.I. = 10+84.83 SW
Y = 460,869.02
X = 797,939.77
DELTA = 8° 08' 02" (LT)
D = 5° 48' 25"
T = 69.95'
L = 139.67'
R = 983.83'
P.C. = 10+14.88 SW
Y = 460,816.8432
X = 797,893.1842
P.T. = 11+54.55 SW
Y = 460,927.2668
X = 797,978.5134

P.I. = 12+06.85 SW
Y = 460,970.8132
X = 798,007.4761

P.I. = 12+30.00 SW
Y = 460,990.4086
X = 798,019.8064

P.I. = 12+43.50 SW
Y = 460,997.5984
X = 798,008.3803

P.I. = 12+93.50 SW
Y = 460,955.6504
X = 797,981.1780

BENCHMARK

NO.	LOCATION	DESCRIPTION	ELEVATION
1	96+28.51 MR, 65.7' RT	TOP CORNER OF CONCRETE PATIO	999.23

LIST OF DRAWINGS

1. GENERAL PLAN
2. ELEVATION VIEW / RAILING LAYOUT
3. DESIGN TABLES
4. TYPICAL SECTIONS
5. DETAILS
6. RAILING DETAILS
7. ASETHETIC DETAILS
8. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS

SW REGION CONTACT: MARK VESPERMAN, (608) 246-7548

BUREAU OF STRUCTURES CONTACT: BILL DREHER, (608) 266-8489

CONSULTANT CONTACT: BRETT OFTEDAHL, (608) 251-4843

WISCONSIN
BRETT M. OFTEDAHL
E-41123
MADISON
WI
PROFESSIONAL ENGINEER
Brett Oftedahl
2/19/13

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 02/21/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-243

MILITARY RIDGE BIKE PATH AT CTH PD

COUNTY DANE
~~TOWN~~/CITY/~~VILLAGE~~ FITCHBURG

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

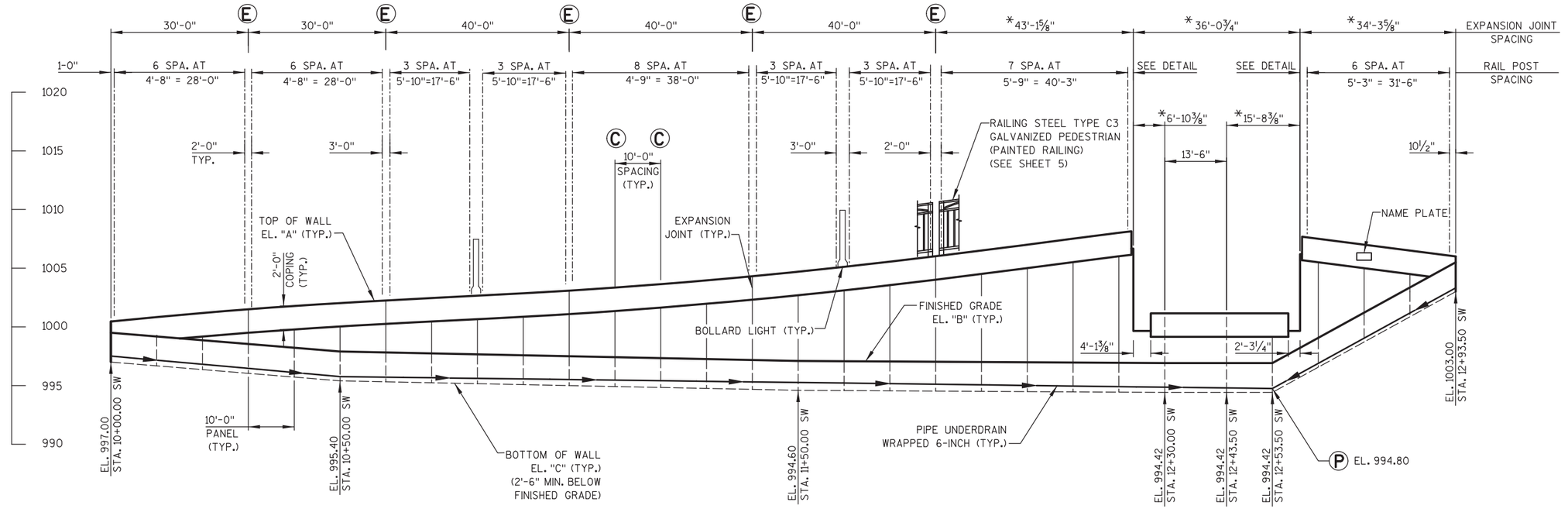
DESIGNED BY	VLM	DESIGN CK'D.	BMO	DRAWN BY	VLM	PLANS CK'D.	BMO

GENERAL PLAN

SHEET 1 OF 8
1070

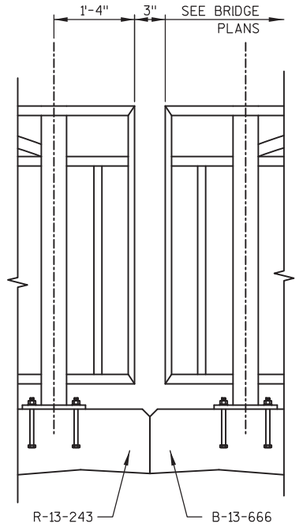
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STATE PROJECT NUMBER
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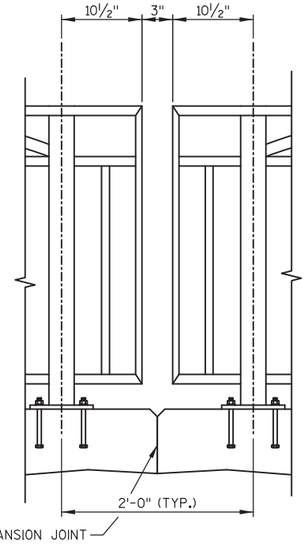
UNWRAPPED ELEVATION VIEW

(LOOKING AT FRONT FACE OF WALL)

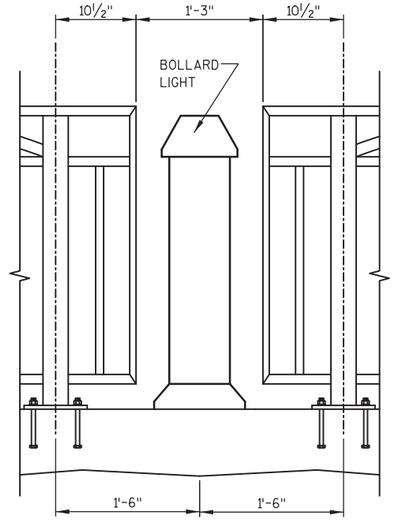


RAILING EXTENTION AT BRIDGE JOINT

(BOTH SIDES OF RETAINING WALL HAVE SAME RAILING EXTENSION AT JOINT.)



TYPICAL RAILING DETAIL AT EXPANSION JOINT



RAILING DETAIL AT BOLLARD LOCATIONS

NOTES:

SEE SHEET 3 FOR GEOMETRY TABLE.

HORIZONTAL WALL PANEL JOINTS NOT SHOWN.

LEGEND

(E) EXPANSION JOINT IN C.I.P. CONCRETE COPING

(C) CONTRACTON JOINT IN C.I.P. CONCRETE COPING

(P) PROVIDE PIPE UNDERDRAIN UNPERFORATED 6 INCH FROM WALL UNDERDRAIN SYSTEM TO INLET MR925. UNDERDRAIN HOLES SHALL BE CAST INTO THE MSE WALL PANEL.

* DIMENSIONS ARE MEASURED TO END OF WALL PANEL, NOT COPING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-243

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SHEET 2

ELEVATION VIEW / RAILING LAYOUT 1071

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STATE PROJECT NUMBER
1206-07-83

GEOMETRY TABLE

MAINLINE STATION	WALL STATION	EL. "A" TOP OF WALL	EL. "B" FINISHED GRADE	EL. "C" BOTTOM OF WALL
94+76.62	10+00.00	1000.46	999.50	997.00
94+86.69	10+10.00	1000.84	999.18	996.68
94+96.68	10+20.00	1001.18	998.86	996.36
95+06.61	10+30.00	1001.50	998.54	996.04
95+16.54	10+40.00	1001.78	998.22	995.72
95+26.48	10+50.00	1002.03	997.90	995.40
95+36.41	10+60.00	1002.26	997.82	995.32
95+46.34	10+70.00	1002.46	997.74	995.24
95+56.27	10+80.00	1002.66	997.66	995.16
95+66.21	10+90.00	1002.86	997.58	995.08
95+76.14	11+00.00	1003.09	997.50	995.00
95+86.07	11+10.00	1003.35	997.42	994.92
95+96.00	11+20.00	1003.64	997.34	994.84
96+05.94	11+30.00	1003.97	997.26	994.76
96+15.87	11+40.00	1004.32	997.18	994.68
96+25.80	11+50.00	1004.70	997.10	994.60
96+35.76	11+60.00	1005.11	997.08	994.58
96+45.76	11+70.00	1005.55	997.06	994.56
96+55.76	11+80.00	1006.02	997.03	994.53
96+65.76	11+90.00	1006.52	997.01	994.51
96+75.76	12+00.00	1007.02	996.99	994.49

MAINLINE STATION	WALL STATION	EL. "A" TOP OF WALL	EL. "B" FINISHED GRADE	EL. "C" BOTTOM OF WALL
96+85.76	12+10.00	1007.52	996.97	994.47
96+95.76	12+20.00	1008.02	996.94	994.44
96+98.49	12+22.73	1008.15	996.94	994.44
96+98.49	12+22.73	*	996.94	994.44
96+98.91	12+23.15	*	996.94	994.44
96+98.91	12+23.15	999.57	996.94	994.44
97+03.00	12+27.25	999.57	996.93	994.43
97+03.00	12+27.25	1001.15	996.93	994.43
97+05.75	12+30.00	1001.15	996.92	994.43
97+05.41	12+43.50	1001.15	996.92	994.42
96+95.42	12+53.50	1001.15	996.92	994.42
96+91.99	12+56.93	1001.15	997.66	995.16
96+91.99	12+56.93	999.57	997.66	995.16
96+89.72	12+59.20	999.57	998.22	995.72
96+89.72	12+59.20	*	998.22	995.72
96+89.30	12+59.62	*	998.31	995.81
96+89.30	12+59.62	1007.68	998.31	995.81
96+85.42	12+63.50	1007.50	1000.97	998.47
96+75.42	12+73.50	1007.00	1001.21	998.71
96+65.42	12+83.50	1006.50	1003.36	1000.86
96+55.42	12+93.50	1006.00	1005.50	1003.00

*TOP OF MSE PANEL ELEVATION AT THIS LOCATION TO BE DETERMINED BY WALL DESIGNER.

SOIL PARAMETERS

SOIL PARAMETERS			
STRATUM LOCATIONS & SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT	FRICTION ANGLE	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	0
BORING B1-7			
FILL MATERIAL EL. 996.00 - EL. 994.30	125	0	0
CLAY EL. 994.30 - EL. 988.50	122	0	700
GRAVEL WITH SILT EL. 988.50 - EL. 975.00	135	33	0
SAND WITH SILT EL. 975.00 - EL. 916.00	133	32	0
BORING MR-1			
TOP SOIL EL. 995.60 - EL. 994.40	125	0	0
CLAY EL. 994.40 - EL. 987.60	122	0	1400
GRAVEL WITH SILT AND SAND EL. 987.60 - EL. 978.10	135	35	0
SAND WITH SILT EL. 978.10 - EL. 955.60	133	32	0

WALL EXTERNAL & OVERALL STABILITY EVALUATION

WALL EXTERNAL & OVERALL STABILITY EVALUTATION			
DIMENSIONS	EVALUATED LOCATIONS UPPER	LOWER	
WALL HEIGHT (FEET)	5.2	7.9	10.5
EXPOSED WALL HEIGHT (FEET)	2.7	5.4	8.0
* MINIMUM LENGTH OF REINFORCEMENT (FEET)	8.0	9.0	8.5
STATION - MILITARY RIDGE PATH REFERENCE. LINE	97+00	97+00	96+50
BORING USED	B1-7	B1-7	MR-1
CAPACITY TO DEMAND RATIO (CDR)			
SLIDING (CDR > 1.0)	2.7	1.5	1.6
ECCENTRICITY (CDR > 1.0)	6.8	1.7	2.1
OVERALL STABILITY (CDR > 1.0)	-	1.7	2.1
BEARING RESISTANCE (CDR > 1.0)	2.7	1.0	1.2
FACTORED BEARING RESISTANCE (PSF)	-	2800	2800

THE ANALYSIS WAS BASED ON AN UNDERCUT DEPTH OF 4'.

MINIMUM UNCONFINED COMPRESSIVE STRENGTH OF 2000 PSF (AS MEASURED ON SITE WITH A SPRING PENETROMETER) IS REQUIRED FOR THE SUBGRADE.

*MINIMUM LENGTH APPLIES ONLY AT CORRESPONDING WALL STATIONS. FINAL DESIGN FOR INTERNAL STABILITY AND EXTERNAL SLIDING AND ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR'S WALL DESIGNER.

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

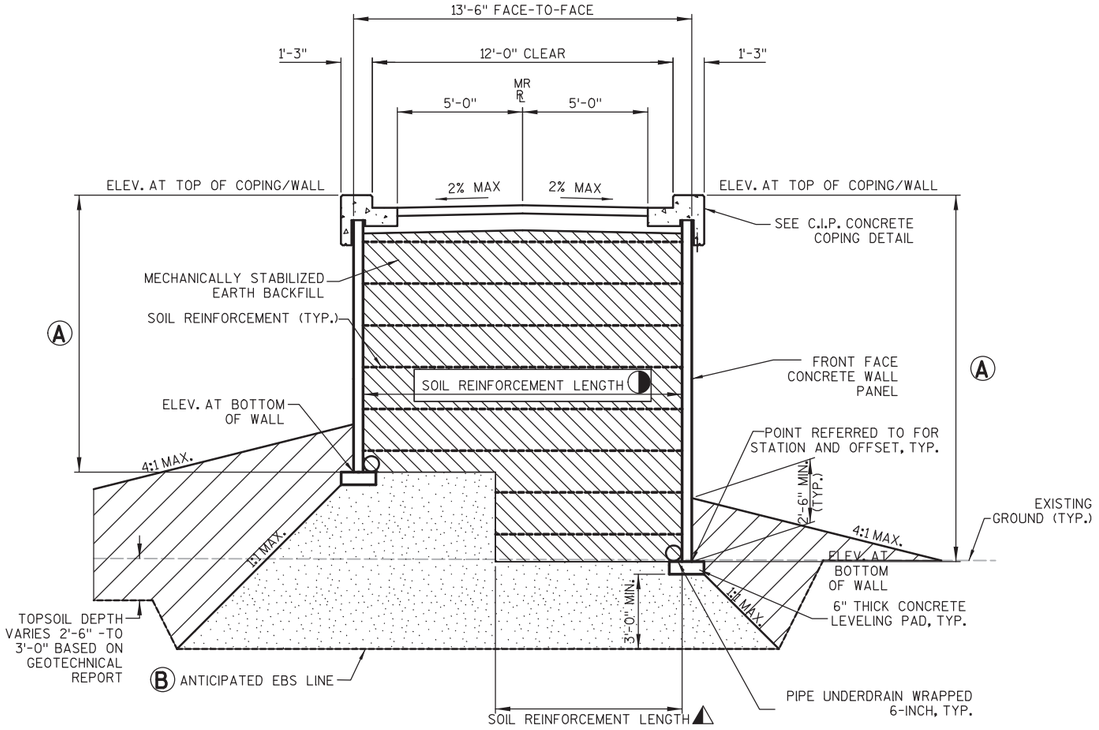
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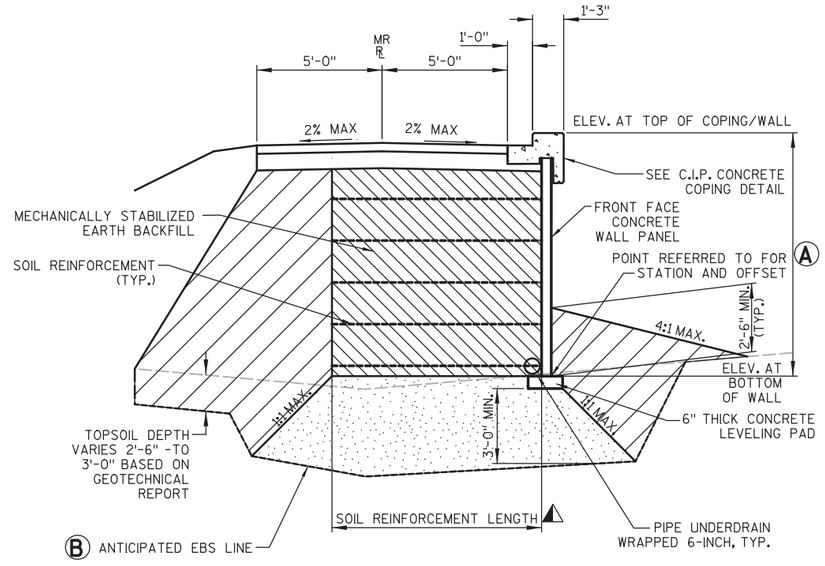
DESIGN TABLES | SHEET 3
1072

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STATE PROJECT NUMBER
1206-07-83



TYPICAL SECTION THRU MSE RETAINING WALL



TYPICAL SECTION THRU MSE RETAINING WALL

NOTES:

⚠ MINIMUM LENGTH OF MSE WALL REINFORCEMENT STRIPS MUST BE 70% THE TOTAL WALL HEIGHT (EXPOSED HEIGHT PLUS EMBEDMENT DEPTH) OR 8.0 FEET, WHICHEVER IS GREATER. SOIL REINFORCEMENT MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

◐ IN AREAS OF BACK TO BACK MSE RETAINING WALLS, THE MAXIMUM REINFORCEMENT LENGTH SHALL BE THE DISTANCE BETWEEN THE WALLS. THE BACK TO BACK WALL PANELS SHALL BE TIED TOGETHER IF THE MINIMUM REINFORCEMENT LENGTH CANNOT BE ACHIEVED.

RAILING ON TOP OF WALL COPING NOT SHOWN.

Ⓐ PAY LIMITS FOR BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD"

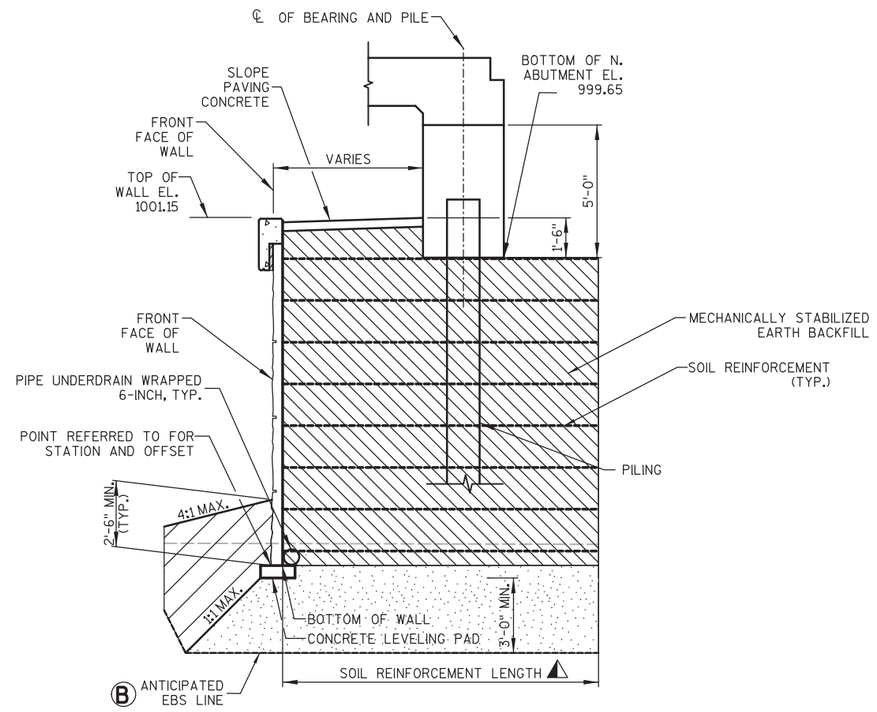
Ⓑ ALL WALL FOUNDATION SUBGRADE SHALL BE APPROVED BY THE REGIONAL GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF BACKFILL GRANULAR

LEGEND

EARTHWORK INCLUDED WITH EXCAVATION COMMON AND BACKFILL GRANULAR BID ITEMS IN ROADWAY PLANS

FILL INCLUDED WITH EXCAVATION COMMON AND BORROW BID ITEMS IN ROADWAY PLANS

FILL INCLUDED WITH BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".



SECTION AT ABUTMENT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-243

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TYPICAL SECTIONS | SHEET 4
1073

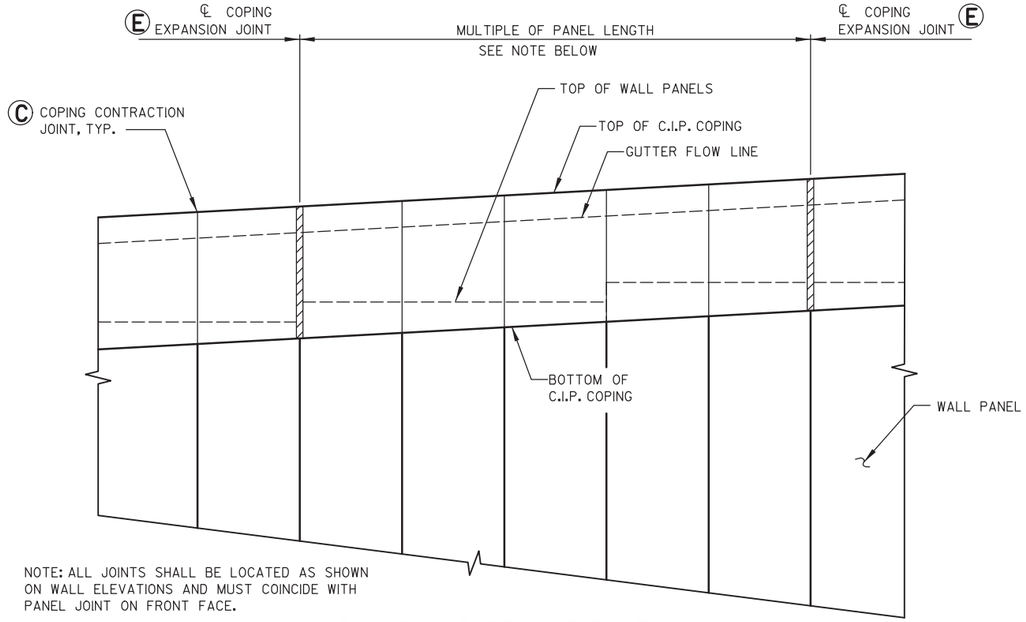
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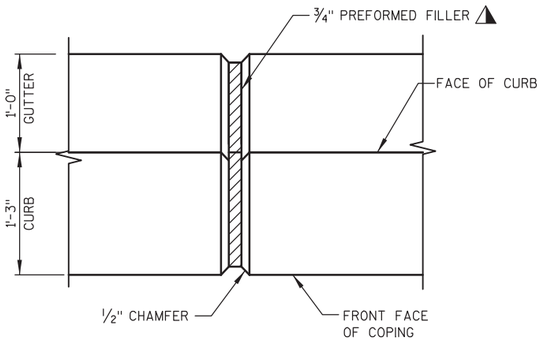
STATE PROJECT NUMBER

1206-07-83



NOTE: ALL JOINTS SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS AND MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

C.I.P. COPING PARTIAL ELEVATION

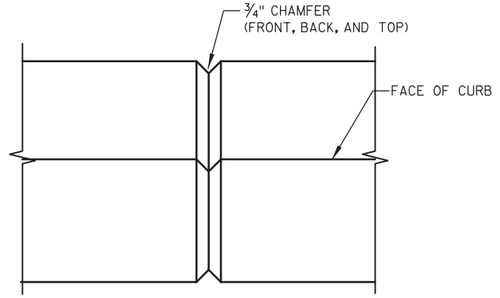


COPING EXPANSION JOINT Ⓔ

DO NOT RUN BAR STEEL THRU JOINTS.
MAX. SPACING OF JOINT = 50'-0".
CENTER FILLER AND JOINT AT ℄ OF PANEL JOINTS.
PLACE JOINTS VERTICAL.

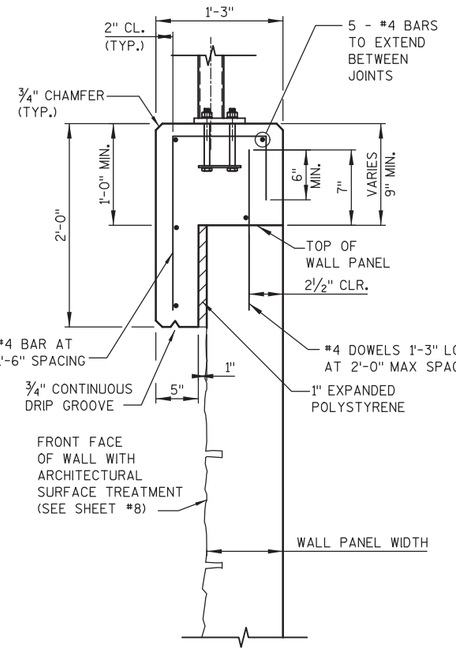
LEGEND

⚠ SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).



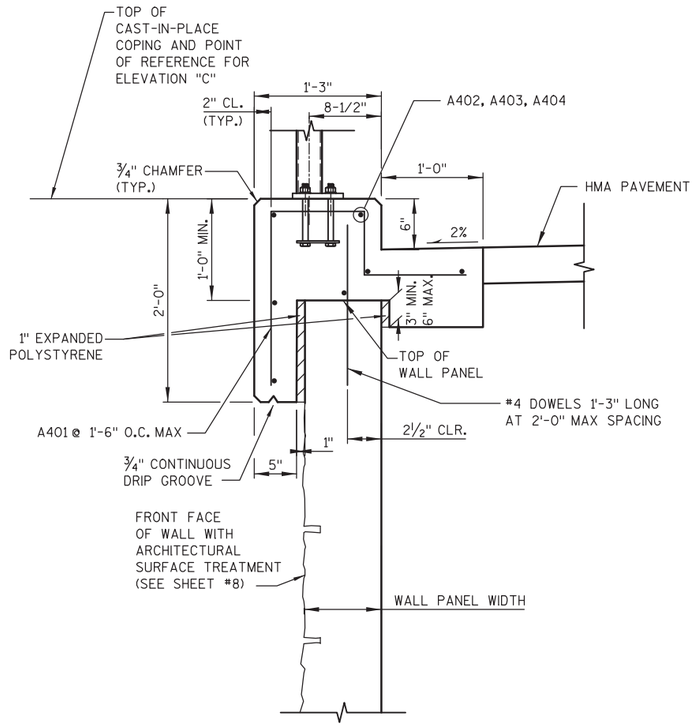
COPING CONTRACTION JOINT Ⓒ

DO NOT RUN BAR STEEL THRU JOINTS.
SPACING OF JOINT = 10'-0".
CENTER JOINTS ON PANEL JOINTS.
PLACE JOINTS VERTICAL.

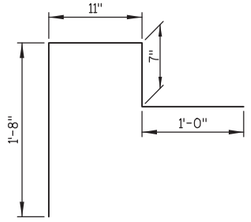


C.I.P. COPING IN FRONT OF ABUTMENT

(CAST IN PLACE CONCRETE AND STEEL REINFORCEMENT FOR COPING INCLUDED WITH THE ITEM "WALL CONCRETE PANEL MSE LRFD")



TYPICAL C.I.P. CONCRETE COPING DETAIL



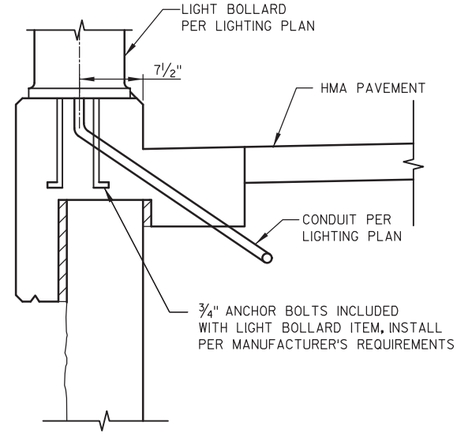
A401

BILL OF BARS

COATED: 1,630 LBS

MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
A401	180	3'-11"	X	X	COPING - VERTICAL
A402	175	9'-8"		X	COPING - HORIZONTAL
A403	7	3'-6"		X	COPING - HORIZ. - AT ABUT. (WEST)
A404	7	2'-4"		X	COPING - HORIZ. - AT ABUT. (EAST)

BAR DIMENSIONS ARE OUT TO OUT OF BAR, UNLESS OTHERWISE NOTED.
BILL OF BARS INCLUDES REINFORCEMENT FOR TYPICAL COPING ONLY.
REINFORCEMENT FOR COPING IN FRONT OF ABUTMENT IS NOT INCLUDED.



BOLLARD LIGHT MOUNT ON COPING

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STRUCTURES DESIGN SECTION

STRUCTURE R-13-243

DRAWN BY VLM | PLANS CK'D. BMO

DETAILS

SHEET 5
1074

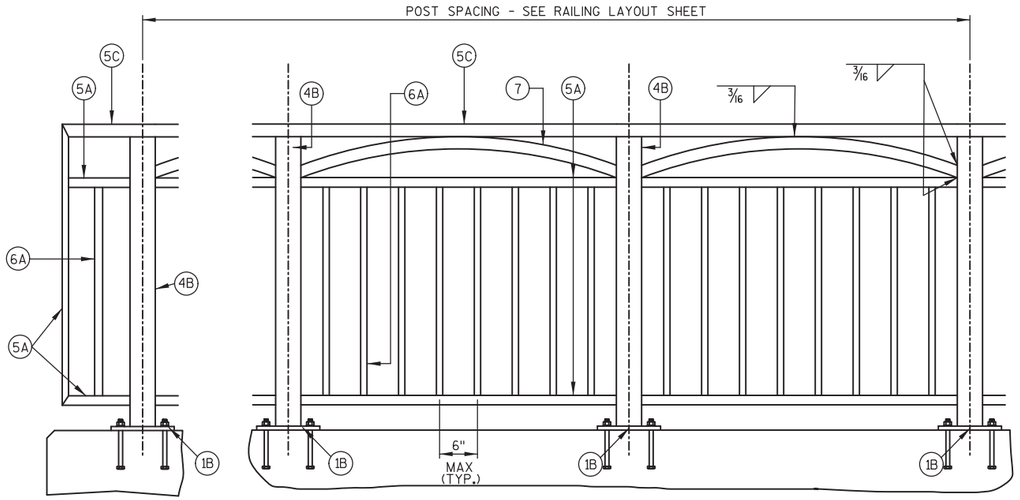
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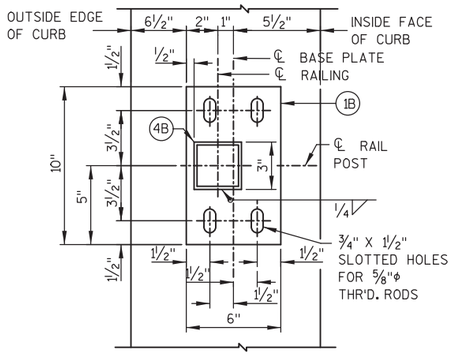
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STATE PROJECT NUMBER

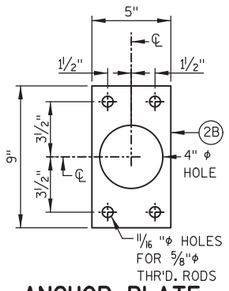
1206-07-83



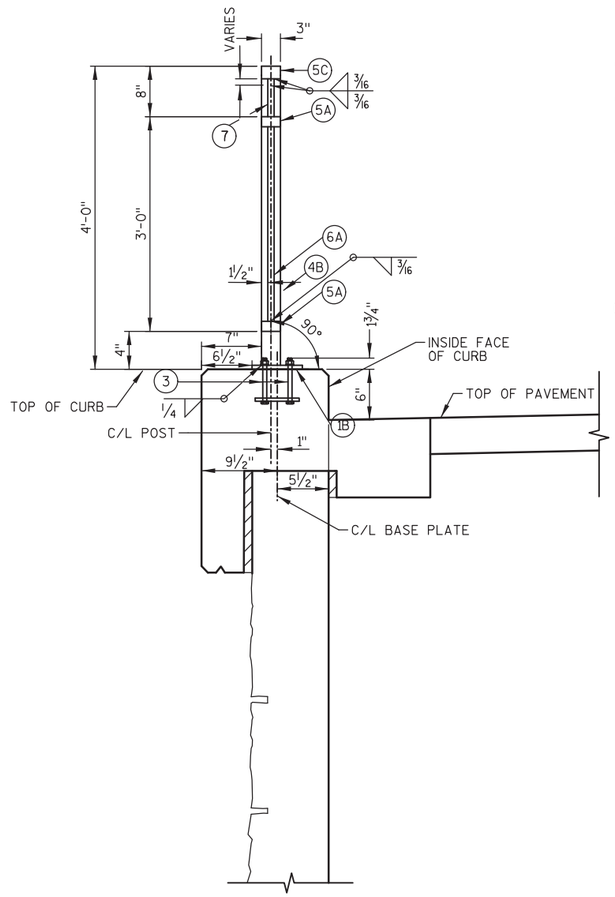
ELEVATION TYPE C3 MODIFIED



TYPICAL RAIL POST BASE PLATE



ANCHOR PLATE



SECTION THRU RAILING

LEGEND

- (1B) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES
- (2B) ¼" X 5" X 9" ANCHOR PLATE WITH 11/16 " φ HOLES FOR THR'D. RODS NO. 3.
- (3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), ⅝" φ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS.
- (4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.
- (5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS.
- (5C) STRUCTURAL TUBING 3" X 2" X 3/16" TOP RAIL. WELD TO NO. 1 AND NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- (7) BAR 1" X 1". BEND TO REQUIRED RADIUS. WELD TO NO. 4 & 5.
- (9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".
- (10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C3 GALVANIZED PEDESTRIAN R-13-243", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 6, 7, 9 AND 10 SHALL CONFORM TO ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (NO. 4, AND NO. 5).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

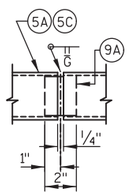
CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE SPECIAL PROVISIONS. THE RAILING SHALL BE PAINTED PANTONE MATCHING SYSTEM COLOR PMS 364 (GREEN).

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

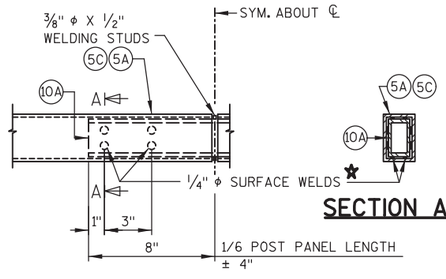
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



SHOP RAIL SPLICE DETAIL

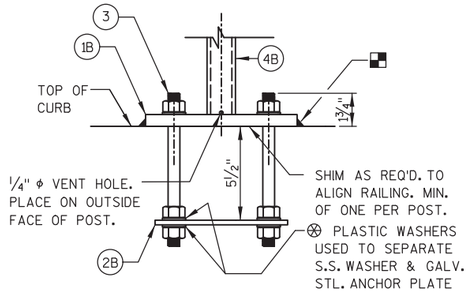
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION A-A

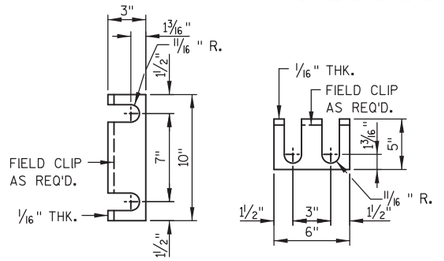
FIELD ERECTION JOINT DETAIL

★ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



RAIL POST SHIM DETAIL

(2 SETS PER POST)

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE R-13-243

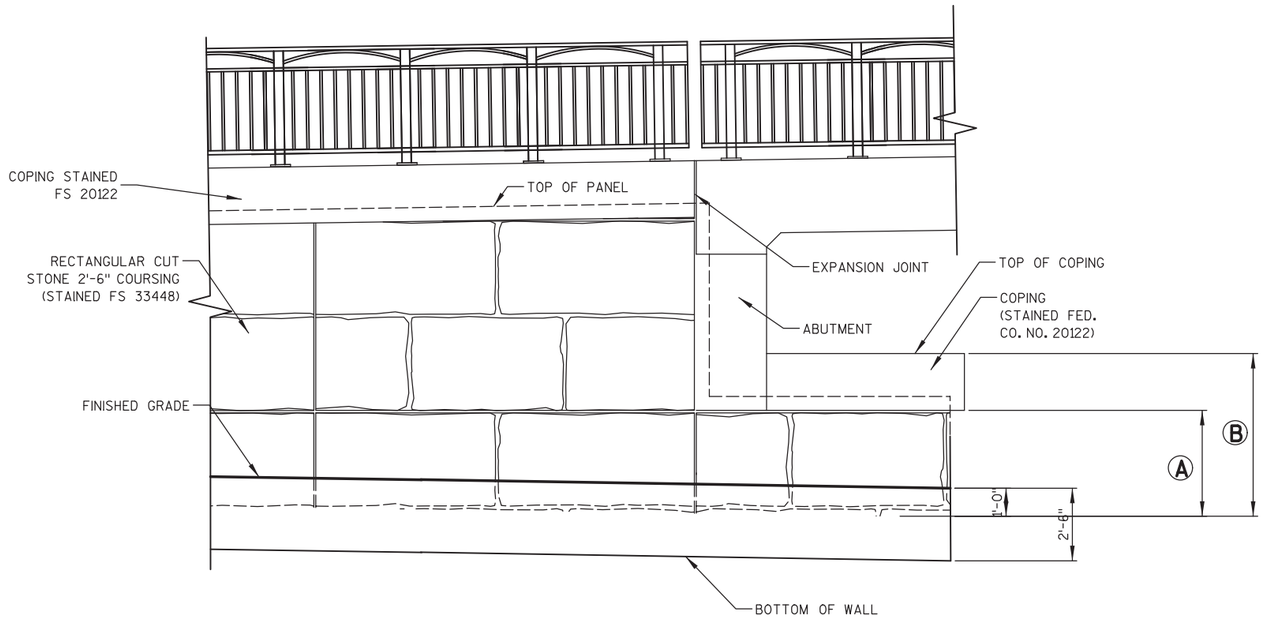
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RAILING DETAILS

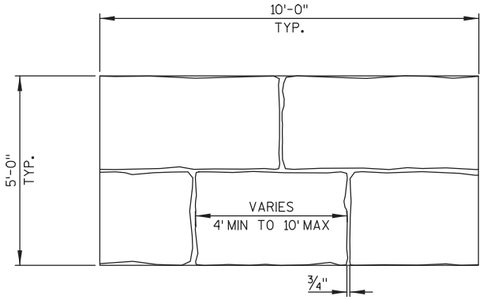
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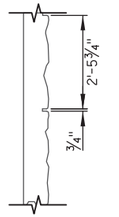
STATE PROJECT NUMBER
1206-07-83



FORMLINER DETAILS



TYPICAL PANEL DETAILS



TYPICAL PANEL CROSS SECTION

NOTES:

PROVIDE AESTHETIC DETAILS SHOWN IN THIS PLAN AND AS NOTED IN THE SPECIAL PROVISIONS.

ALL STONE EDGES ADJACENT TO HORIZONTAL PANEL JOINTS SHALL BE CUT STONE TEXTURE.

ALL STONE EDGES ADJACENT TO VERTICAL PANEL JOINTS SHALL BE FLUSH CUT.

AVERAGE RELIEF IS 3/4" FOR THE STONES WITH A MAXIMUM RELIEF OF 2" FOR THE JOINTS.

ALL PANELS ARE TO BE STAINED PER DETAILS ON THIS SHEET.

ALL EXPOSED SURFACES OF FORMLINED BLOCKS TO BE SPLIT FACE INCLUDING FACES, CORNERS AND EDGES.

FORMLINER COURSING SHALL BE LEVEL AND CONTINUOUS ACROSS VERTICAL PANEL JOINTS.

Ⓐ PAY LIMITS FOR "ARCHITECTURAL SURFACE TREATMENT" (BOTTOM OF COPING TO 1' BELOW FINISHED GRADE)

Ⓑ PAY LIMITS FOR "CONCRETE STAINING" (TOP OF COPING TO 1' BELOW FINISHED GRADE)

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

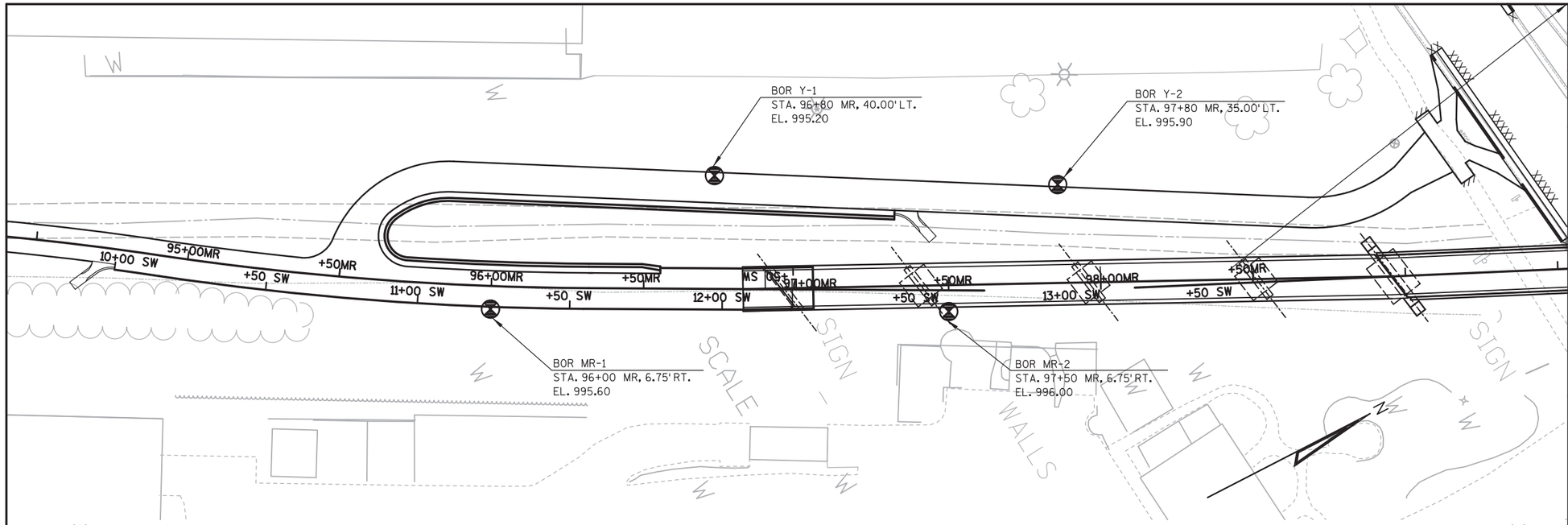
STRUCTURE R-13-243

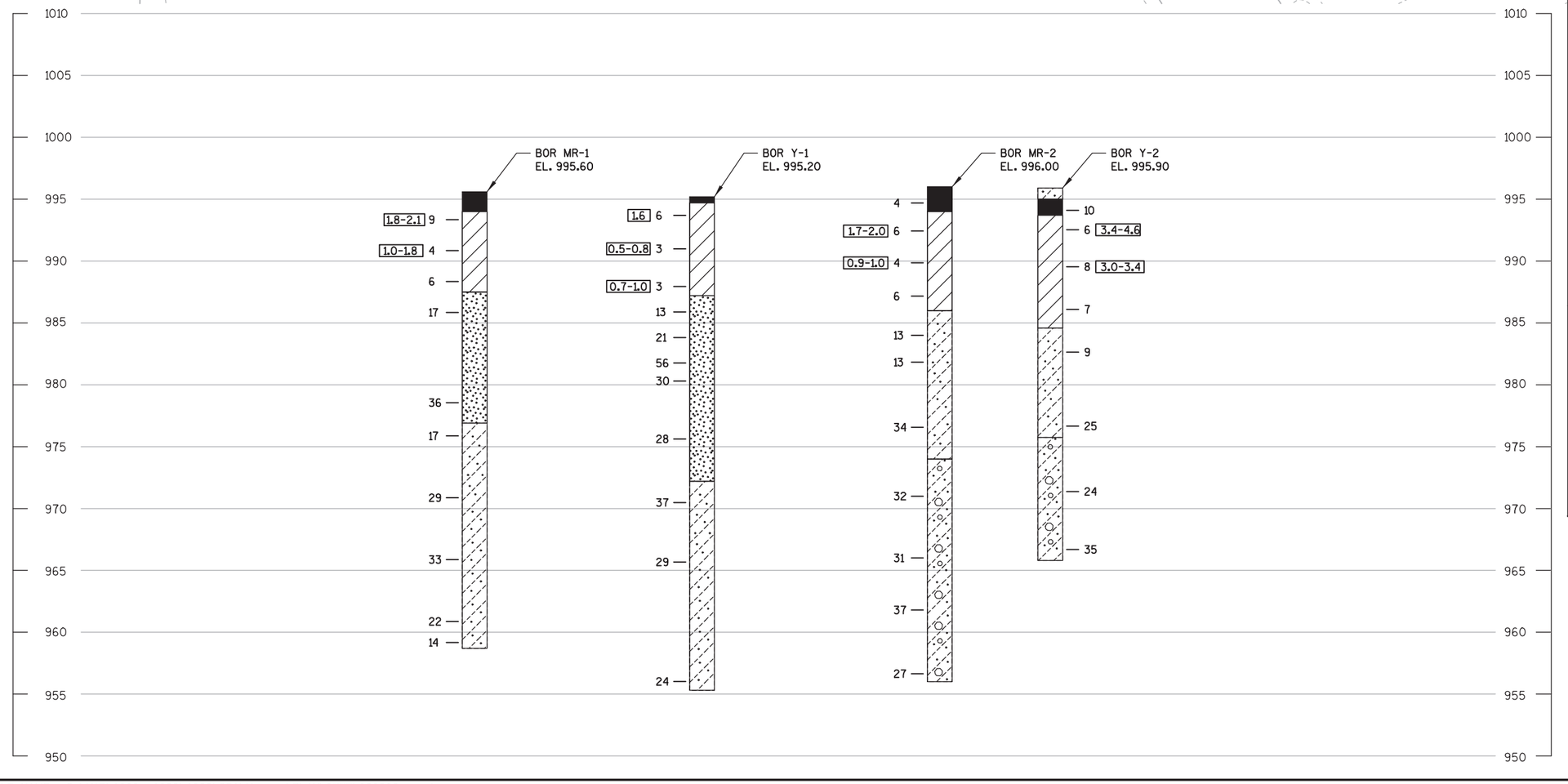
DRAWN BY BJE | PLANS CK'D. BMO

AESTHETIC DETAILS

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1076

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STATE PROJECT NUMBER

1206-07-83

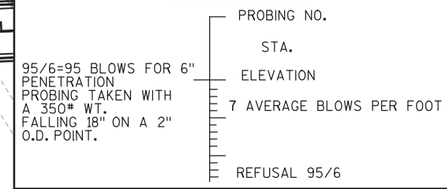
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

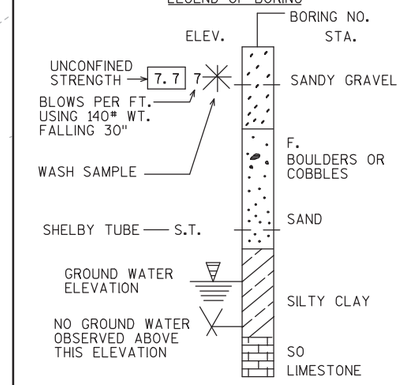
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE R-13-243

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SUBSURFACE EXPLORATION

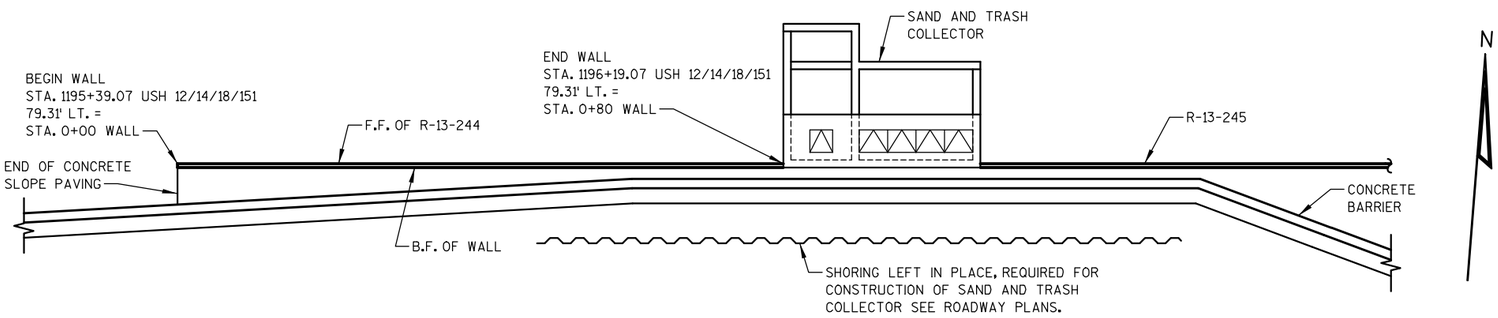
SHEET 8
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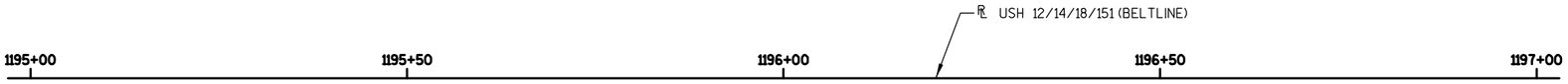
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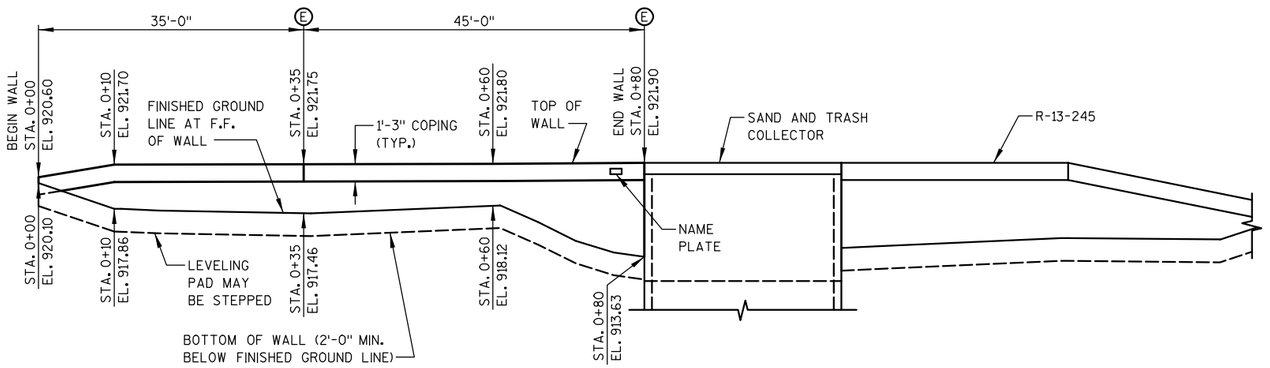
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PLAN
(R-13-244)



ELEVATION
(LOOKING AT BACK FACE OF WALL)



WALL EXTERNAL & OVERALL STABILITY EVALUATION

	DIMENSIONS	EVALUATED LOCATIONS			
	WALL HEIGHT (FEET)	10.3			
	EXPOSED WALL HEIGHT (FEET)	8.3			
*	LENGTH OF REINFORCEMENT (FEET)	8' MIN.			
	WALL STATION	0+80			
	BORING USED	STC 1&2			
	CAPACITY TO DEMAND RATIO (CDR)				
	SLIDING (CDR>1.0)	1.2			
	ECCENTRICITY (CDR>1.0)	1.8			
	OVERALL STABILITY (CDR>1.0)	1.6			
	BEARING RESISTANCE (CDR>1.0)	1.7			
	FACTORED BEARING RESISTANCE (PSF)	5000			

* MINIMUM LENGTH APPLIES ONLY AT CORRESPONDING WALL STATIONS. FINAL DESIGN FOR INTERNAL STABILITY AND EXTERNAL SLIDING AND ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR'S WALL DESIGNER.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	QUANTITY	UNIT
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	90	L.F.
612.0806	APRON ENDWALL FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH	1	EA.
SPV.0165.05	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD, R-13-244	510	S.F.

ALL ITEMS ARE CATEGORY 0200

LEGEND

F.F. = FRONT FACE

B.F. = BACK FACE

Ⓔ = COPING EXPANSION JOINT

STRUCTURE DESIGN CONTACTS

SW REGION CONTACT: MARK VESPERMAN, (608) 246-7548

BUREAU OF STRUCTURES CONTACT: BILL DREHER, (608) 266-8489

CONSULTANT CONTACT: BRETT OFTEDAHL, (608) 251-4843

STATE PROJECT NUMBER

1206-07-77

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 2'-0" FT BELOW FINISHED GRADE.

EXCAVATION FOR WALL IS INCLUDED WITH ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD." EXCAVATION FOR 2'UNDERCUT IS INCLUDED WITH ROADWAY BID ITEMS.

ALL BAR STEEL REINFORCEMENT FOR CAST-IN-PLACE COPING IS TO BE EPOXY COATED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL EXPOSED EDGES OF CONCRETE ¾-INCH, UNLESS NOTED OTHERWISE.

ALL DIMENSIONS ARE ALONG THE FRONT FACE OF THE WALL, UNLESS OTHERWISE SHOWN.

A NAME PLATE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. CENTER NAME PLATE ON COPING.

COORDINATE WITH SHORING WALL DESIGNER TO AVOID CONFLICTS BETWEEN "SHORING LEFT IN PLACE" AND LIMITS OF MECHANICALLY STABILIZED EARTH WALL.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND AND IN FRONT OF WALL AS SHOWN ON ROADWAY CROSS SECTIONS.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

CONCRETE MASONRY, COPING	f'c = 3,500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 PSI
PRECAST CONCRETE WALL PANELS	f'c = 4,000 PSI

ALLOWABLE WALL SYSTEMS

1. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD.

LIST OF DRAWINGS

1. GENERAL PLAN
2. WALL DETAILS
3. SUBSURFACE EXPLORATION

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher KAR 03/04/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-244

USH 12/14/18/151 WB

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
DANE	MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
ADW	BMO	ADW	BMO

GENERAL PLAN

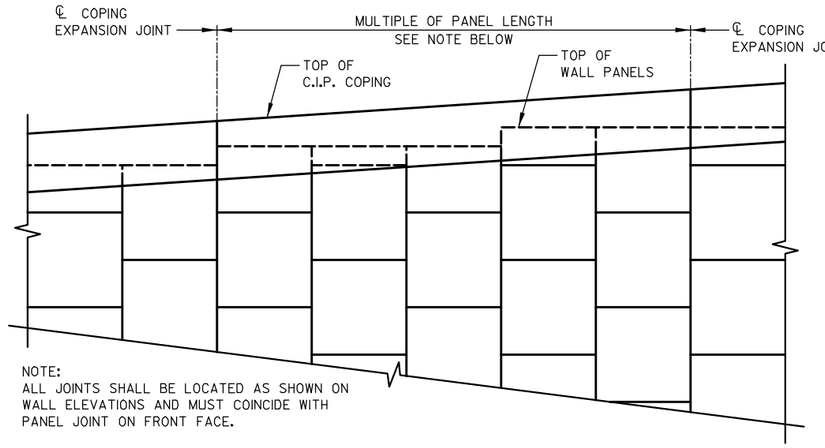
SHEET 1 OF 3
1078

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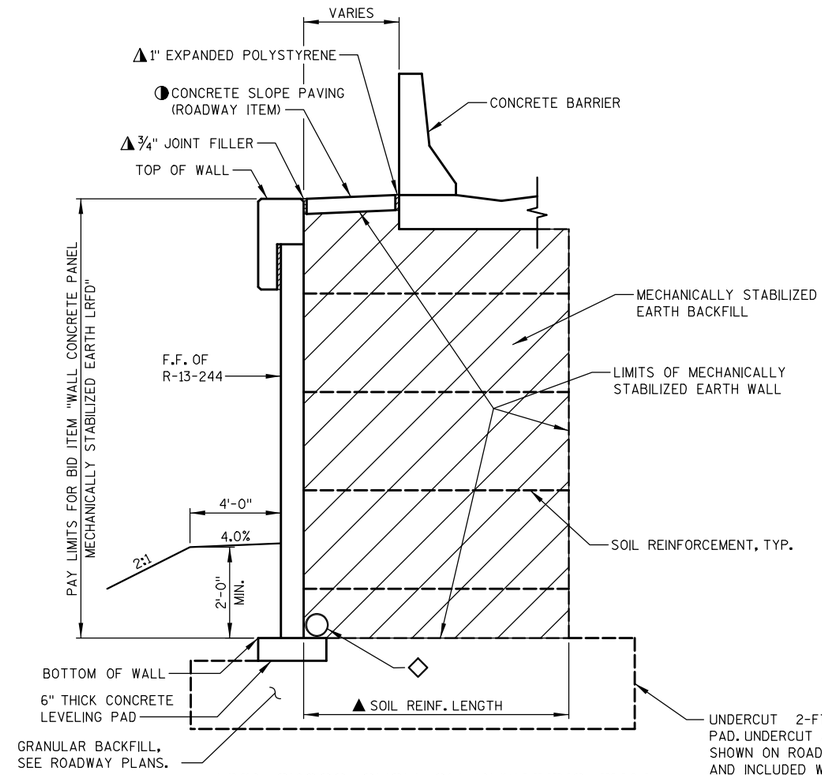
SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS	TOTAL UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
GRANULAR BACKFILL (REINFORCING ZONE OR BACKFILL)	120	30	0
GRANULAR RETAINED SOIL *	120	30	0
BOR STC-1			
LEAN CLAY EL. 907.3 - EL. 906.3	125	0	300
LEAN CLAY EL. 906.3 - EL. 903.3	130	0	1,500
FINE TO COARSE SAND WITH SILT, LITTLE TO MUCH GRAVEL, EL. 903.3 - EL. 901.3	125	30	0
FINE SAND WITH SILT EL. 901.3 - EL. 898.3	120	33	0
FINE SAND WITH SILT EL. 898.3 - EL. 890.8	123	34	0
FINE TO COARSE SAND WITH SILT, LITTLE TO MUCH GRAVEL, EL. 890.8 - EL. 886.5	130	33	0
FINE TO COARSE SAND WITH SILT, LITTLE TO MUCH GRAVEL, EL. 886.5 - EL. 883.3	135	38	0
FINE SAND AND FINE TO MEDIUM SAND WITH TRACE TO MUCH GRAVEL, EL. 883.3 - EL. 881.8	125	30	0
FINE SAND AND FINE TO MEDIUM SAND WITH TRACE TO MUCH GRAVEL, EL. 881.8 - EL. 878.3	129	31	0
FINE SAND AND FINE TO MEDIUM SAND WITH TRACE TO MUCH GRAVEL, EL. 878.3 - EL. 871.3	118	26	0
SILTY FINE SAND EL. 871.3 - EL. 866.3	110	23	0
SILTY FINE TO COARSE SAND WITH TRACE TO MUCH GRAVEL AND COBBLES, EL. 866.3 - EL. 863.3	120	30	0
SILTY FINE SAND EL. 863.3 - EL. 859.3	123	34	0
BOR STC-2			
BASE COURSE MATERIAL EL. 922.5 - EL. 921.9	140	33	0
FILL MATERIAL EL. 921.9 - EL. 920.1	130	35	0
FILL MATERIAL EL. 920.1 - EL. 917.1	128	36	0
FILL MATERIAL EL. 917.1 - EL. 915.1	132	0	3,300
FILL MATERIAL EL. 915.1 - EL. 912.6	128	0	2,500
FILL MATERIAL EL. 912.6 - EL. 910.1	124.6	0	2,300
FILL MATERIAL EL. 910.1 - EL. 908.6	120	30	0
ORGANIC CLAY EL. 908.6 - EL. 907.1	113.8	0	4,000
FINE SAND WITH SILT EL. 907.1 - EL. 900.1	115	25	0
FINE SAND WITH SILT EL. 900.1 - EL. 897.1	130	40	0
FINE SAND WITH SILT EL. 897.1 TO EL. 890.1	123	34	0
FINE TO COARSE SAND WITH SILT AND LITTLE TO MUCH GRAVEL, EL. 890.1 - EL. 887.1	133	38	0
FINE TO COARSE SAND WITH SILT AND LITTLE TO MUCH GRAVEL, EL. 887.1 - EL. 882.1	130	34	0
FINE TO COARSE SAND WITH SILT AND LITTLE TO MUCH GRAVEL, EL. 882.1 - EL. 880.1	130	34	0
FINE SAND AND FINE TO MEDIUM SAND WITH TRACE TO MUCH GRAVEL, EL. 880.1 - EL. 875.1	130	34	0
STRATIFIED SILT AND FINE SAND LENSES AND SEAMS EL. 875.1 - EL. 872.1	125	28	0
STRATIFIED SILT AND FINE SAND LENSES AND SEAMS EL. 872.1 - EL. 868.1	138.8	38	0
SILTY FINE TO COARSE SAND WITH TRACE TO MUCH GRAVEL AND COBBLES, EL. 868.1 - EL. 863.1	128	32	0

* DESIGN WALL FOR THESE VALUES



C.I.P. COPING PARTIAL ELEVATION



TYP. CROSS SECT. OF RETAINING WALL

▲ MINIMUM LENGTH OF MSE WALL REINFORCING STRIPS MUST BE 70% THE TOTAL WALL HEIGHT (EXPOSED HEIGHT PLUS EMBEDMENT DEPTH) OR 8.0 FEET, WHICHEVER IS GREATER. SOIL REINFORCING MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

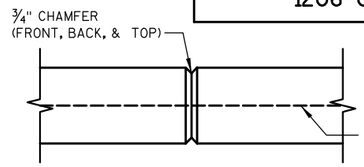
◭ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER AND EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)

◑ FORM PLANES OF WEAKNESS OR FALSE JOINTS IN THE CONCRETE BY SCORING THE FINISHED SURFACE AT LEAST 1/2" DEEP WITH A JOINT TOOL. SPACING TO MATCH AND COINCIDE WITH PANEL JOINTS. JOINTS TO BE NORMAL TO FRONT FACE OF WALL. EXPANSION JOINTS TO COINCIDE WITH COPING EXPANSION JOINTS.

◇ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. PROVIDE APRON ENDWALL PER S.D.D. 8F6.

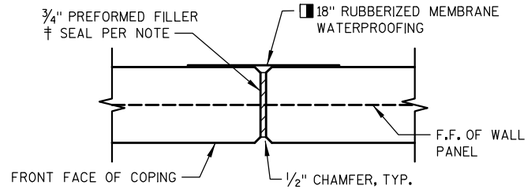
STATE PROJECT NUMBER

1206-07-77



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

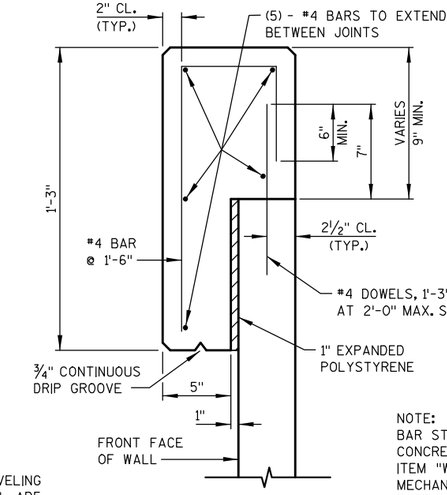


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS. MEMBRANE WATERPROOFING INCLUDED IN BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

† SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.)



NOTE:
BAR STEEL REINFORCING AND CONCRETE INCLUDED IN BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD, R-13-244".

CAST-IN-PLACE CONCRETE COPING DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-244

DRAWN BY ADW | PLANS CK'D. BMO

WALL DETAILS

SHEET 2
1079

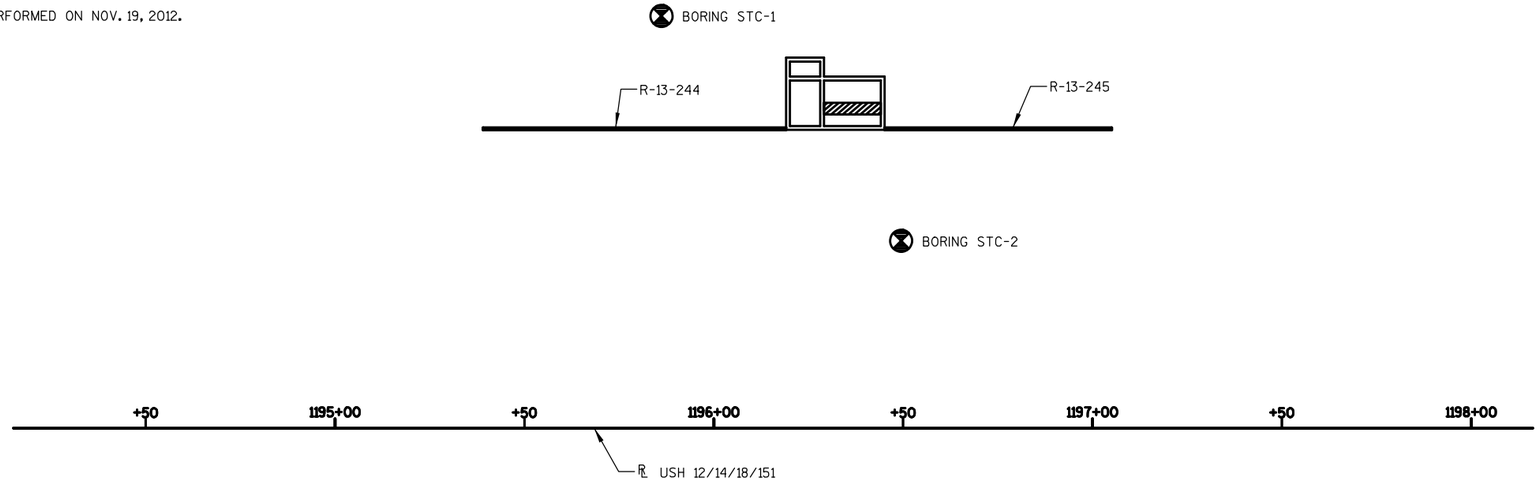
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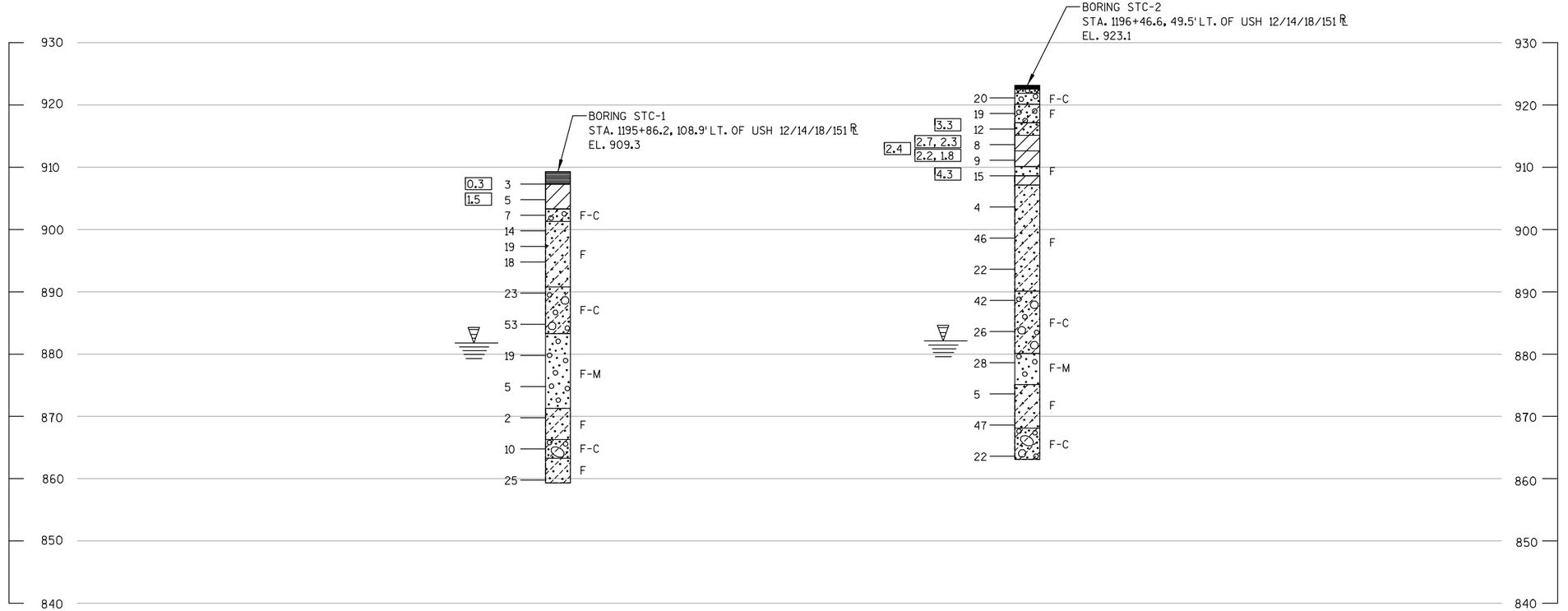
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BORINGS PERFORMED AND REPORT COMPLETED BY:
SOILS & ENGINEERING SERVICES, INC.
MADISON, WI

BORINGS WERE PERFORMED ON NOV. 19, 2012.





STATE PROJECT NUMBER

1206-07-77

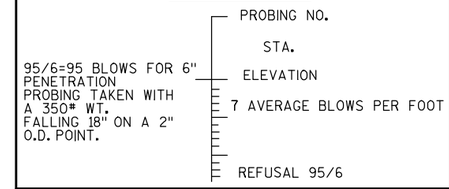
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

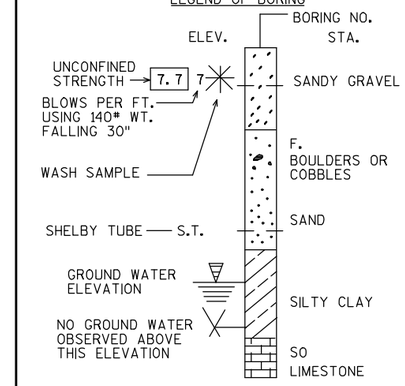
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-244

DRAWN BY ADW | PLANS CK'D. BMO

SUBSURFACE EXPLORATION

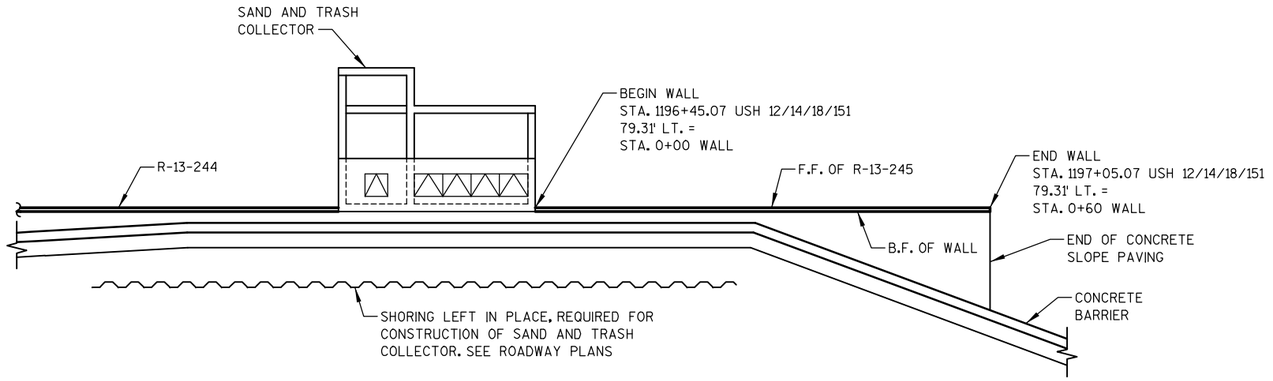
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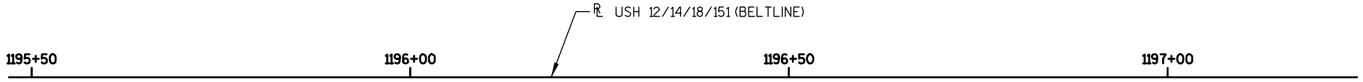
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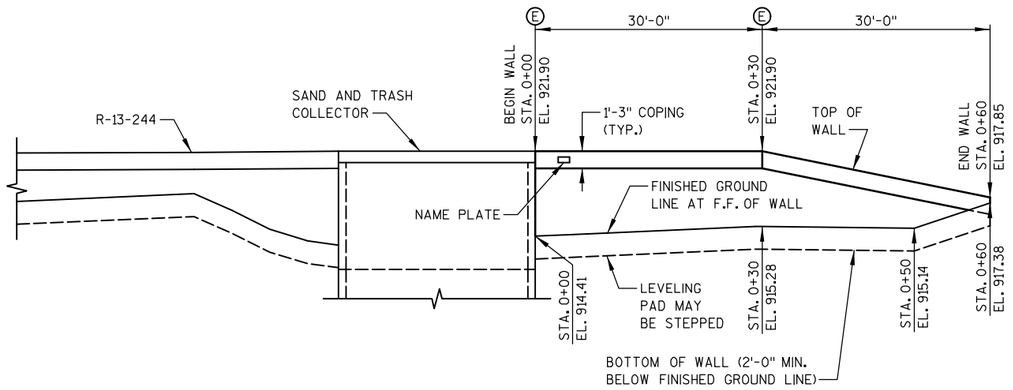
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PLAN
(R-13-245)



ELEVATION
(LOOKING AT BACK FACE OF WALL)

WALL EXTERNAL & OVERALL STABILITY EVALUATION

	DIMENSIONS	EVALUATED LOCATIONS			
	WALL HEIGHT (FEET)	9.5			
	EXPOSED WALL HEIGHT (FEET)	7.5			
*	LENGTH OF REINFORCEMENT (FEET)	8' MIN.			
	WALL STATION	0+00			
	BORING USED	STC-2			
	CAPACITY TO DEMAND RATIO (CDR)				
	SLIDING (CDR>1.0)	1.3			
	ECCENTRICITY (CDR>1.0)	1.7			
	OVERALL STABILITY (CDR>1.0)	1.5			
	BEARING RESISTANCE (CDR>1.0)	1.9			
	FACTORED BEARING RESISTANCE (PSF)	5000			

* MINIMUM LENGTH APPLIES ONLY AT CORRESPONDING WALL STATIONS. FINAL DESIGN FOR INTERNAL STABILITY AND EXTERNAL SLIDING AND ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR'S WALL DESIGNER.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	QUANTITY	UNIT
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	70	L.F.
612.0806	APRON ENDWALL FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH	1	EA.
SPV.0165.06	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD, R-13-245	460	S.F.

ALL ITEMS ARE CATEGORY 0210.

LEGEND

F.F. = FRONT FACE

B.F. = BACK FACE

Ⓔ = COPING EXPANSION JOINT

STRUCTURE DESIGN CONTACTS

SW REGION CONTACT: MARK VESPERMAN, (608) 246-7548

BUREAU OF STRUCTURES CONTACT: BILL DREHER, (608) 266-8489

CONSULTANT CONTACT: BRETT OFTEDAHL, (608) 251-4843

WISCONSIN
BRETT M. OFTEDAHL
E-41123
MADISON
WI
PROFESSIONAL ENGINEER
1/30/13

STATE PROJECT NUMBER

1206-07-77

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE PLAN QUANTITY FOR THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO A CONSTANT DEPTH OF 2'-0" FT BELOW FINISHED GRADE.

EXCAVATION FOR WALL IS INCLUDED WITH ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD." EXCAVATION FOR 2' UNDERCUT IS INCLUDED WITH ROADWAY BID ITEMS.

ALL BAR STEEL REINFORCEMENT FOR CAST-IN-PLACE COPING IS TO BE EPOXY COATED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

BEVEL EXPOSED EDGES OF CONCRETE ¾-INCH, UNLESS NOTED OTHERWISE.

ALL DIMENSIONS ARE ALONG THE FRONT FACE OF THE WALL, UNLESS OTHERWISE SHOWN.

A NAME PLATE SHALL BE PLACED AS DIRECTED BY THE ENGINEER. CENTER NAME PLATE ON COPING.

COORDINATE WITH SHORING WALL DESIGNER TO AVOID CONFLICTS BETWEEN "SHORING LEFT IN PLACE" AND LIMITS OF MECHANICALLY STABILIZED EARTH WALL.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD R-13-245".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND AND IN FRONT OF WALL AS SHOWN ON ROADWAY CROSS SECTIONS.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

CONCRETE MASONRY, COPING	f'c = 3,500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 PSI
PRECAST CONCRETE WALL PANELS	f'c = 4,000 PSI

ALLOWABLE WALL SYSTEMS

1. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD.

LIST OF DRAWINGS

1. GENERAL PLAN
2. WALL DETAILS
3. SUBSURFACE EXPLORATION

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher KAR — 03/04/13
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-13-245

USH 12/14/18/151 WB

COUNTY: DANE — ~~TOWN~~/CITY/~~VILLAGE~~: MADISON

DESIGN SPEC.: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
ADW	BMO	ADW	BMO

GENERAL PLAN

SHEET 1 OF 3
1081

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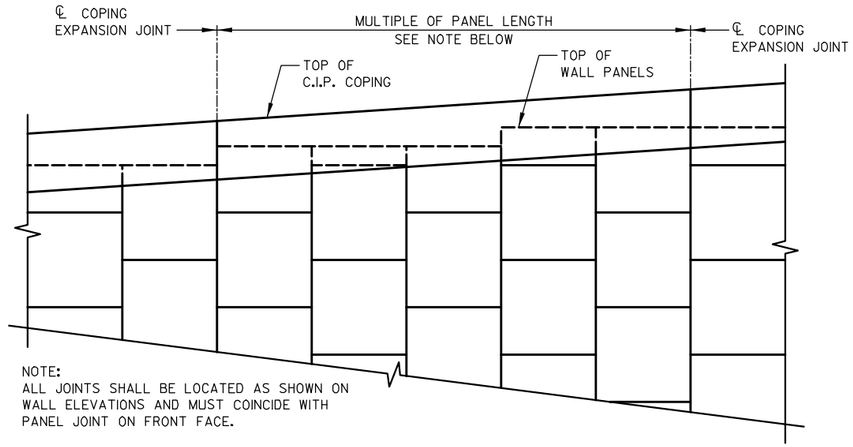
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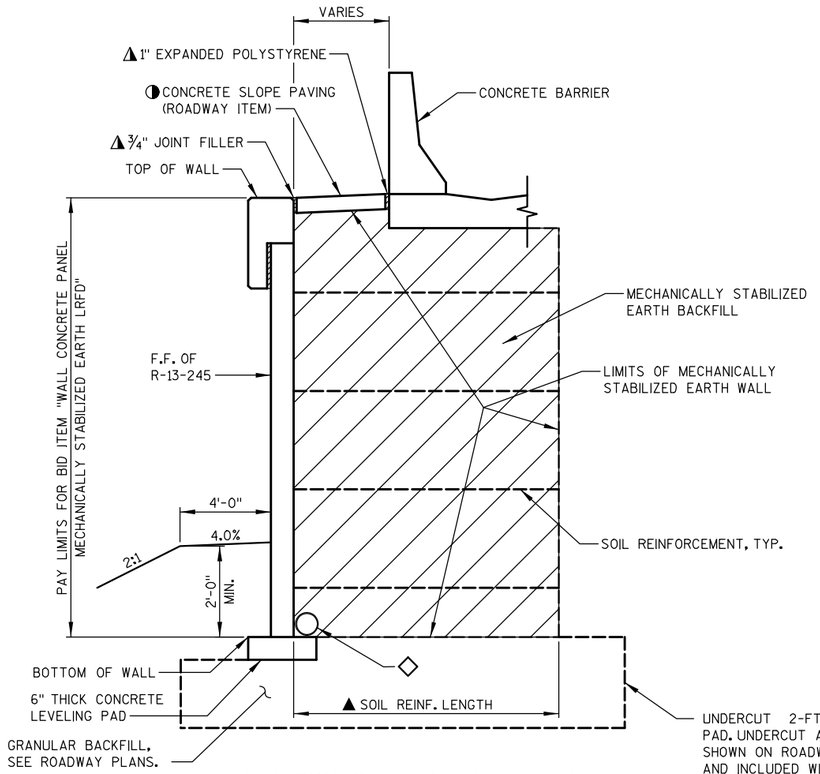
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GRANULAR RETAINED SOIL *	120	30	0
BOR STC-1			
LEAN CLAY EL. 907.3 - EL. 906.3	125	0	300
LEAN CLAY EL. 906.3 - EL. 903.3	130	0	1,500
FINE TO COARSE SAND WITH SILT, LITTLE TO MUCH GRAVEL, EL. 903.3 - EL. 901.3	125	30	0
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SILTY FINE SAND EL. 863.3 - EL. 859.3	123	34	0
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FILL MATERIAL EL. 921.9 - EL. 920.1	130	35	0
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ORGANIC CLAY EL. 908.6 - EL. 907.1	113.8	0	4,000
FINE SAND WITH SILT EL. 907.1 - EL. 900.1	115	25	0
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FINE TO COARSE SAND WITH SILT AND LITTLE TO MUCH GRAVEL, EL. 882.1 - EL. 880.1	130	34	0
FINE SAND AND FINE TO MEDIUM SAND WITH TRACE TO MUCH GRAVEL, EL. 880.1 - EL. 875.1	130	34	0
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SILTY FINE TO COARSE SAND WITH TRACE TO MUCH GRAVEL AND COBBLES, EL. 868.1 - EL. 863.1	128	32	0

* DESIGN WALL FOR THESE VALUES



C.I.P. COPING PARTIAL ELEVATION

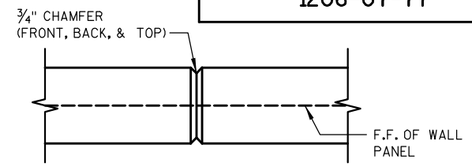


TYP. CROSS SECT. OF RETAINING WALL

▲ MINIMUM LENGTH OF MSE WALL REINFORCING STRIPS MUST BE 70% THE TOTAL WALL HEIGHT (EXPOSED HEIGHT PLUS EMBEDMENT DEPTH) OR 8.0 FEET, WHICHEVER IS GREATER. SOIL REINFORCING MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

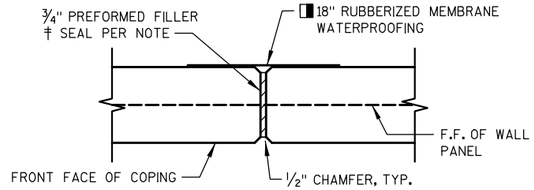
◭ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER AND EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

◑ FORM PLANES OF WEAKNESS OR FALSE JOINTS IN THE CONCRETE BY SCORING THE FINISHED SURFACE AT LEAST ½" DEEP WITH A JOINT TOOL. SPACING TO MATCH AND COINCIDE WITH PANEL JOINTS. JOINTS TO BE NORMAL TO FRONT FACE OF WALL. EXPANSION JOINTS TO COINCIDE WITH COPING EXPANSION JOINTS.



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

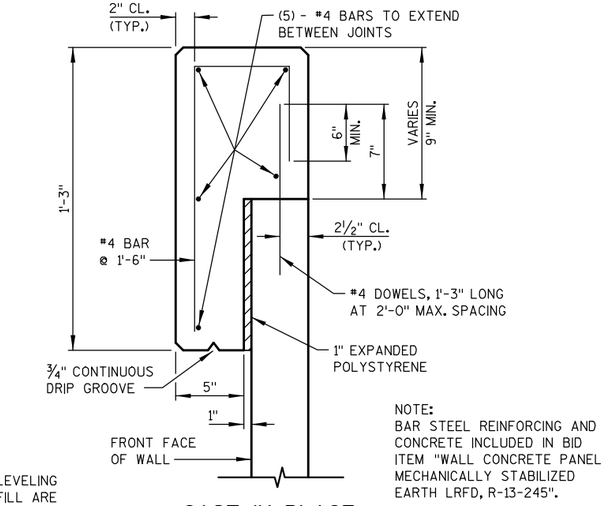


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS. MEMBRANE WATERPROOFING INCLUDED IN BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

† SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)



CAST-IN-PLACE CONCRETE COPING DETAIL

◇ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. PROVIDE APRON ENDWALL PER S.D.D. 8F6.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-245

DRAWN BY ADW | PLANS CK'D. BMO

WALL DETAILS

SHEET 2
1082

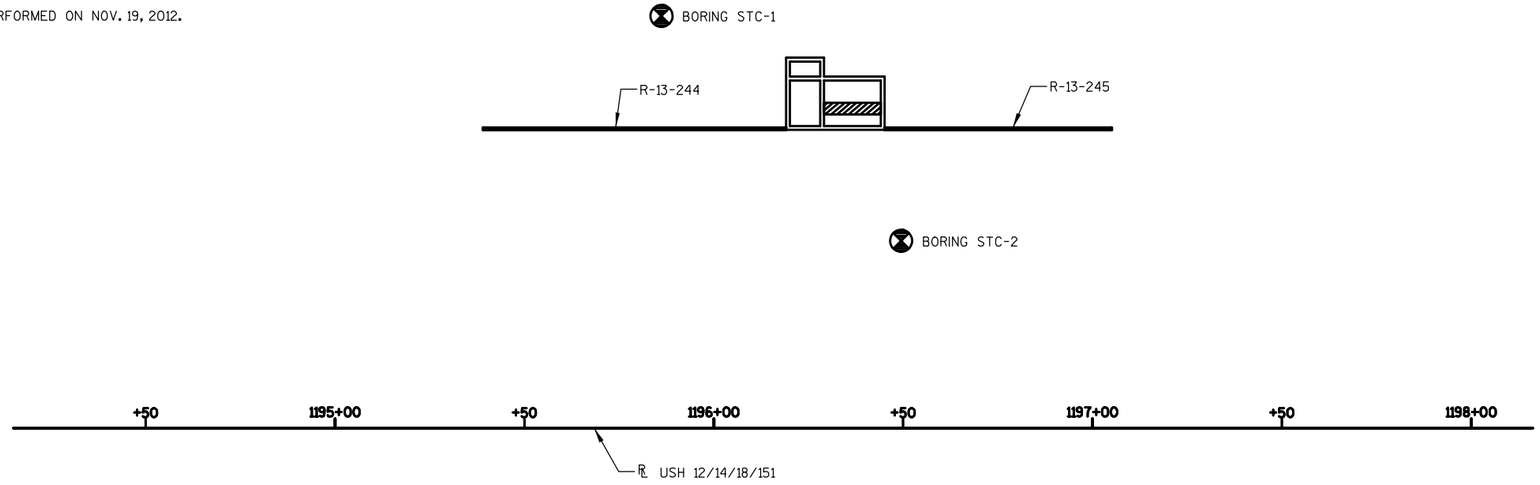
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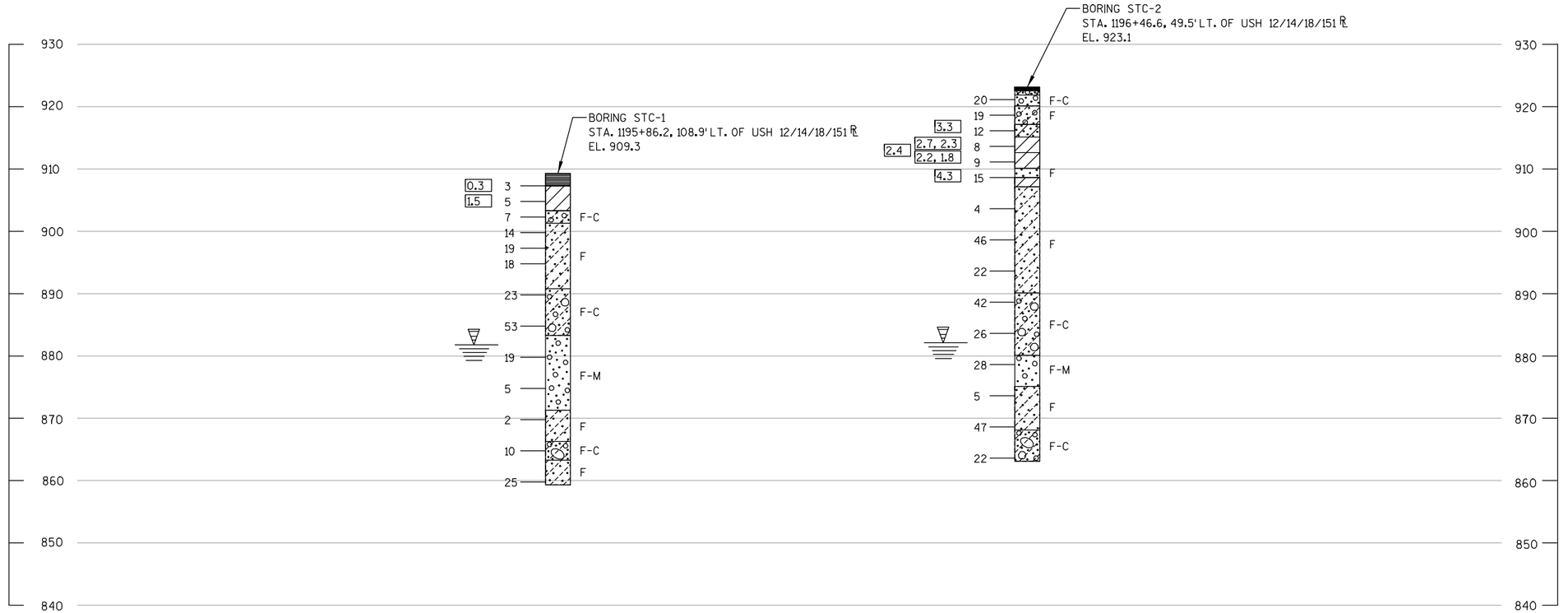
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BORINGS PERFORMED AND REPORT COMPLETED BY:
SOILS & ENGINEERING SERVICES, INC.
MADISON, WI

BORINGS WERE PERFORMED ON NOV. 19, 2012.





8

8

STATE PROJECT NUMBER

1206-07-77

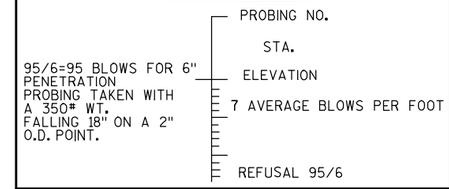
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

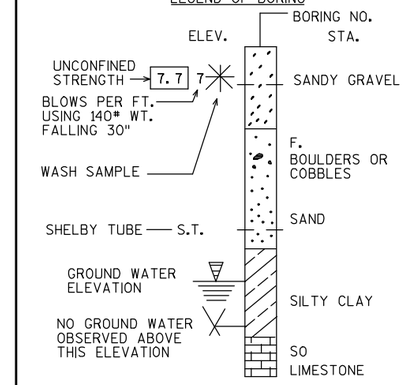
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-245

DRAWN BY ADW | PLANS CK'D. BMO

SUBSURFACE EXPLORATION

SHEET 3
1083

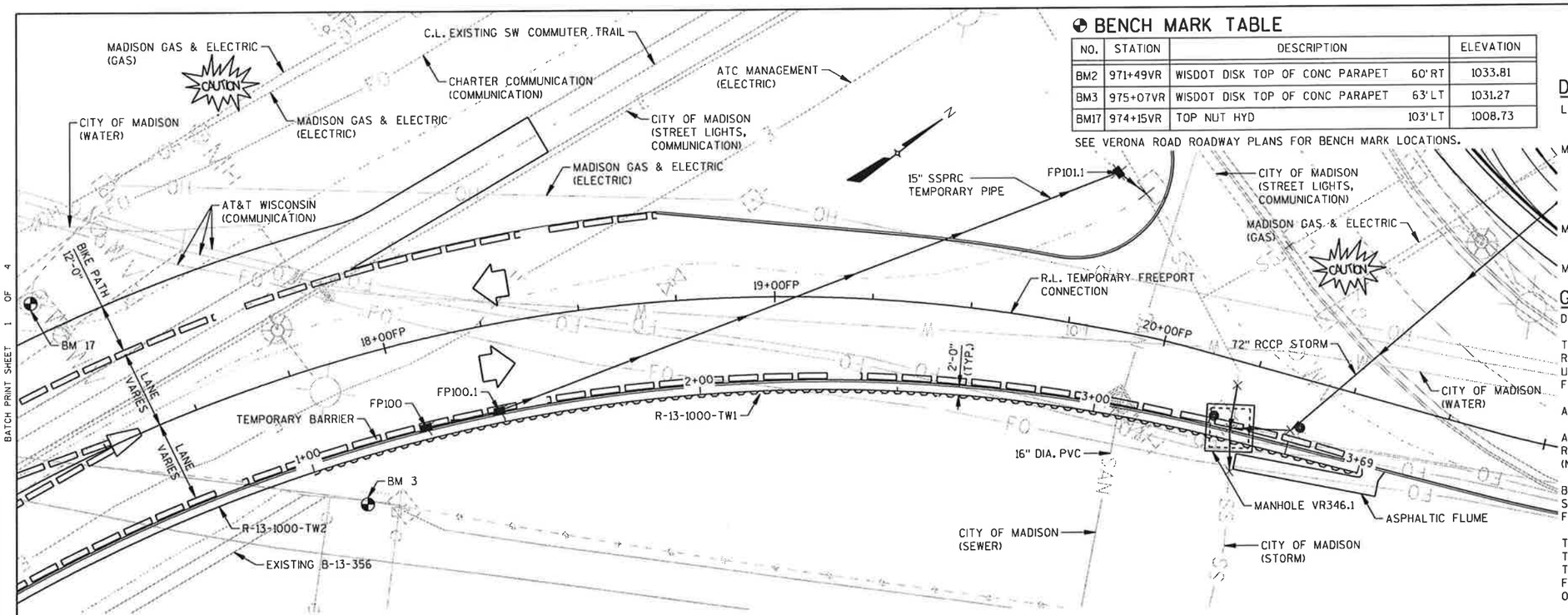
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PLOT DATE: 2/1/2013
PLOT TIME: 12:49:25 PM
BATCH PRINT SHEET 1 OF 4

STATE PROJECT NUMBER

1206-07-77



PLAN

WB USH 18/151 (VERONA ROAD)

BENCH MARK TABLE

NO.	STATION	DESCRIPTION		ELEVATION
BM2	971+49VR	WISDOT DISK TOP OF CONC PARAPET	60'RT	1033.81
BM3	975+07VR	WISDOT DISK TOP OF CONC PARAPET	63'LT	1031.27
BM17	974+15VR	TOP NUT HYD	103'LT	1008.73

SEE VERONA ROAD ROADWAY PLANS FOR BENCH MARK LOCATIONS.

WALL CURVE DATA

P.I. = STA. 2+21.45
Y = 467,418.74
X = 801,033.02
Δ = 32° 48' 39.0"
D = 13° 53' 23.6"
T = 121.45'
L = 236.22'
R = 412.50'
P.C. = STA. 1+00.00
Y = 467,303.96
X = 800,993.34
P.T. = STA. 3+36.22
Y = 467,493.71
X = 801,128.56

DESIGN DATA

LIVE LOAD:
LIVE LOAD SURCHARGE ——— 100 PSF

MATERIAL PROPERTIES:
TEMPORARY STEEL SHEET PILE ——— fy = 39,000 PSI (ASTM A328)

STRUCTURAL STEEL CARBON ——— f'y = 36,000 PSI

MINIMUM SHEET PILE SECTION MODULUS:
STEEL SHEET PILE ——— Sx = 18.1 inch³/ft

MINIMUM SHEET PILE DEPTH ——— SEE THIS SHEET

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THESE PLANS ARE FOR TEMPORARY STEEL SHEET PILE RETAINING WALL R-13-1000-TW1. THE WALL WILL BE CONSTRUCTED AND LEFT IN PLACE UNDER THIS CONTRACT. WALL REMOVAL WILL BE COMPLETED UNDER A FUTURE CONTRACT.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

BACKFILL TO FINISHED GROUND AT THE BACK FACE OF THE TEMPORARY STEEL SHEET PILE WALL WITH GRANULAR BACKFILL. BACKFILL TO FINISHED GROUND PRIOR TO INSTALLING HELICAL ANCHORS.

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

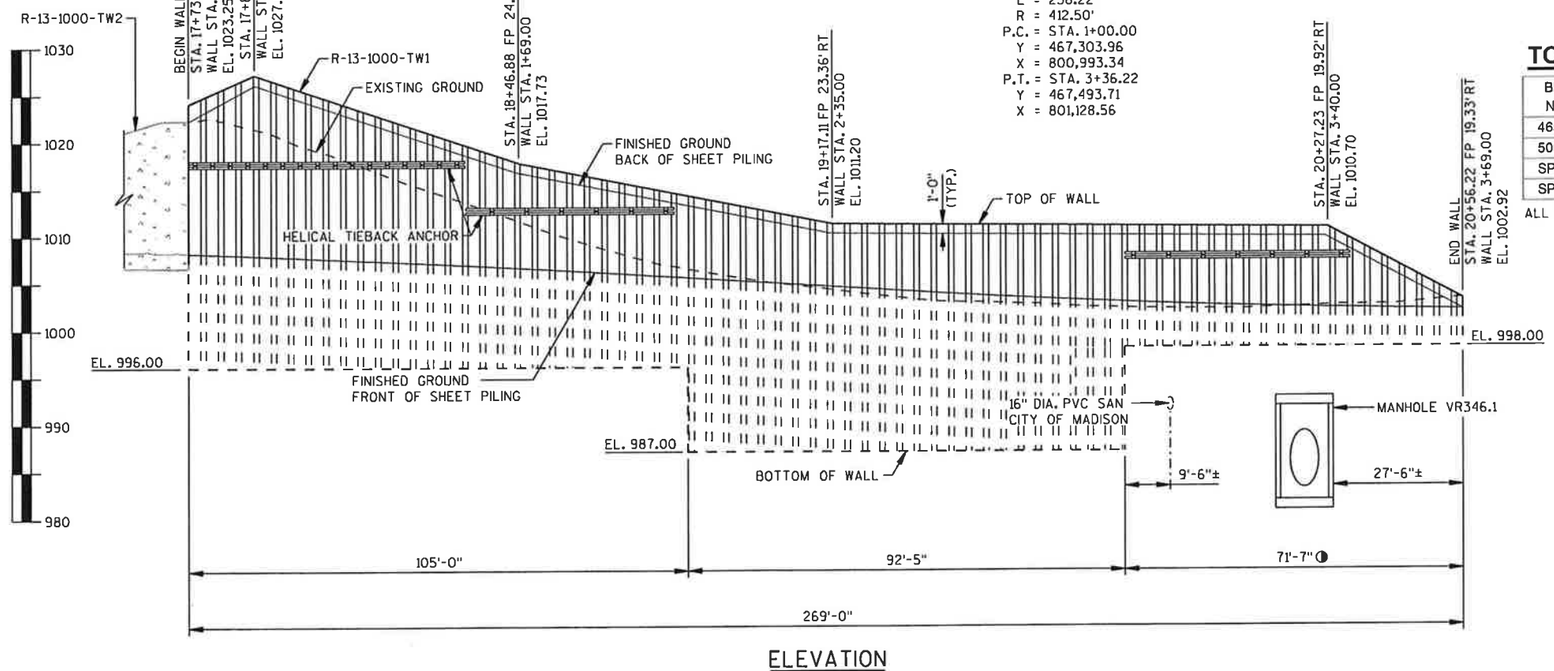
VERIFY ALL ABUTMENT TIMBER PILE LOCATIONS FOR STRUCTURE B-13-356 PRIOR TO INSTALLING HELICAL ANCHORS.

◑ DO NOT DRIVE OR VIBRATE SHEET PILING IN THIS LOCATION. EXCAVATE TO MINIMUM SHEET PILE DEPTH SHOWN ON THIS SHEET AND PLACE SHEET PILING.

PAYMENT OF ROADWAY RELATED ITEMS ARE NOT PART OF R-13-1000-TW1.

LIST OF DRAWINGS

1. GENERAL PLAN
2. HELICAL TIEBACK ANCHOR DETAILS
3. HELICAL TIEBACK ANCHOR SCHEDULE
4. SUBSURFACE EXPLORATION



ELEVATION

LOOKING WEST AT BACK FACE OF WALL

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
465.0315	ASPHALTIC FLUMES	SY	15
506.0105	STRUCTURAL STEEL CARBON	LB	8,890
SPV.0060.95	HELICAL TIEBACK ANCHOR	EACH	29
SPV.0165.10	PILING STEEL SHEET TEMPORARY LEFT IN PLACE	SF	5,550

ALL QUANTITIES ARE CATEGORY 0190

WISCONSIN
JUSTIN D. WARNER
E-42425
SAUK CITY
WI
PROFESSIONAL ENGINEER
02/01/2013

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
BILL DREHER (608) 266-8489

CONSULTANT:
JUSTIN WARNER (608) 828-8205

SW REGION:
MARK VESPERMAN (608) 246-7548

NO.	DATE	REVISION	BY

AECOM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 03/04/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-1000-TW1

TEMPORARY STEEL SHEET PILE WALL

COUNTY DANE
~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	JDW	DESIGN CK'D.	JEA	DRAWN BY	MJK	PLANS CK'D.	MSK

GENERAL PLAN

SHEET 1 OF 4

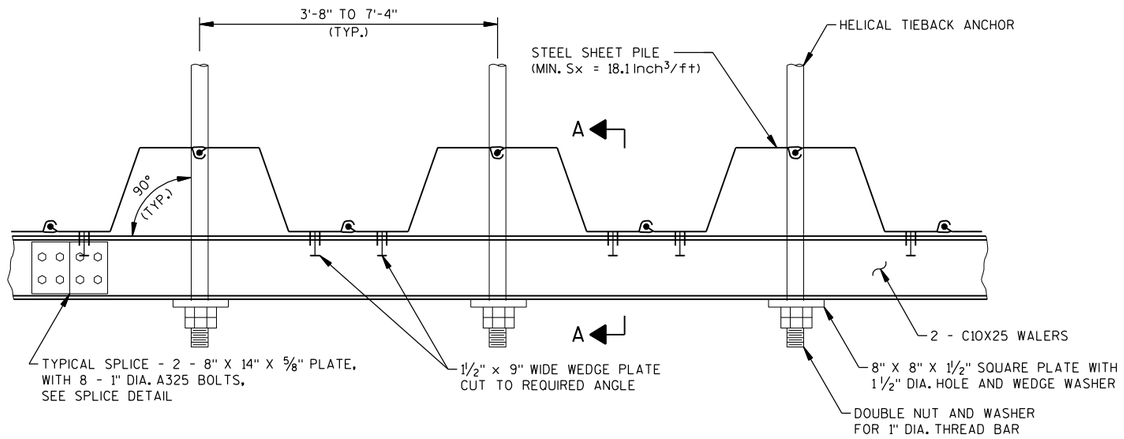
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STATE PROJECT NUMBER

1206-07-77

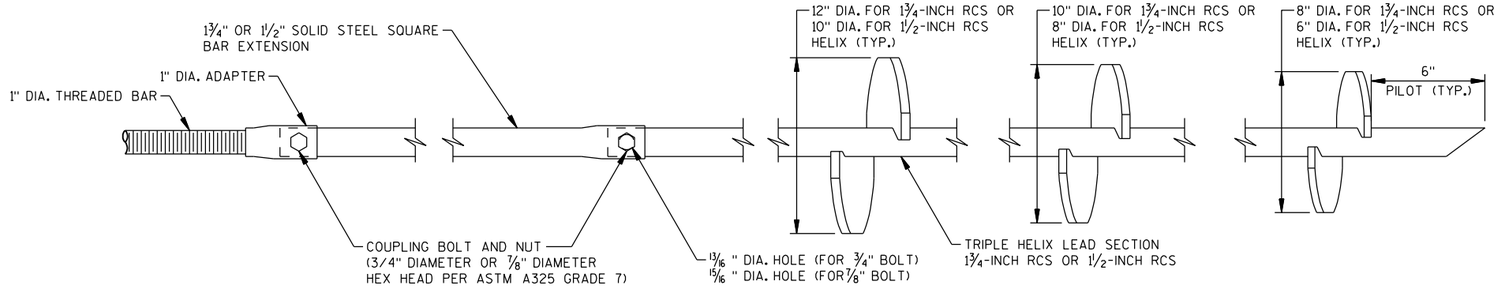


WALER CONNECTION TO SHEET PILE DETAIL

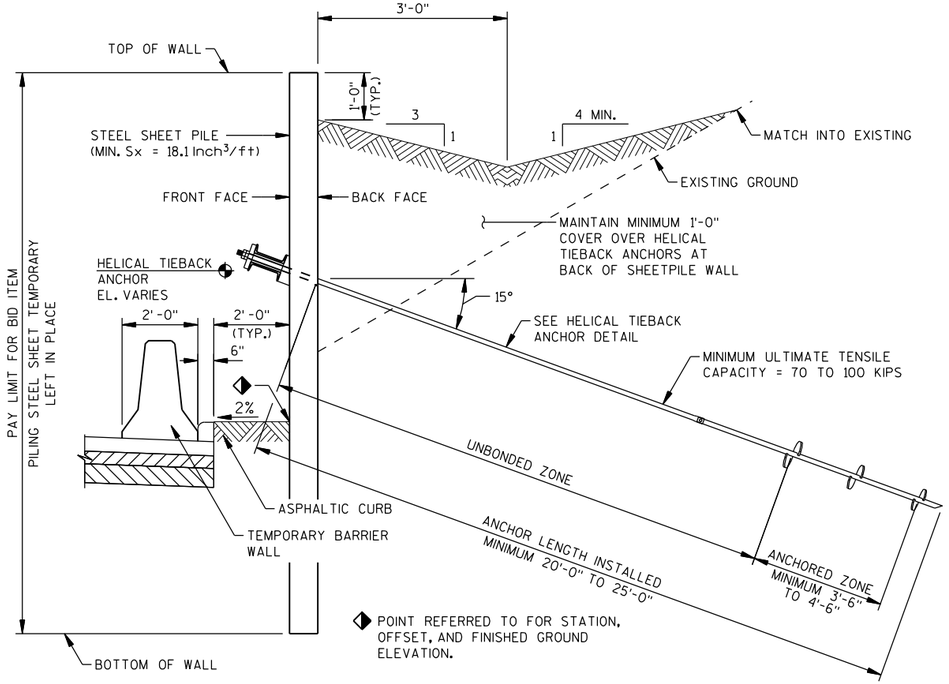
STA. 1+00 TO STA. 2+05
STA. 2+97.4 TO STA. 3+41.4

TABLE OF ELEVATIONS

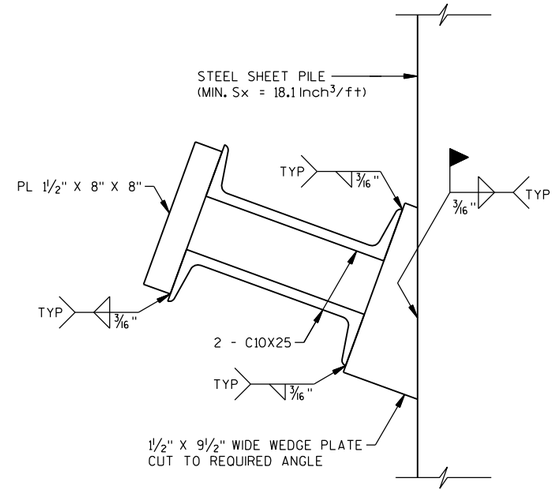
MAINLINE STATION	MAINLINE OFFSET	WALL STATION	BOTTOM OF WALL ELEVATION	FINISHED GROUND ELEVATION	TOP OF WALL ELEVATION
17+73.27 FP	25.16' RT	1+00.00	996.00	1008.19	1023.25
17+88.21 FP	25.18' RT	1+14.00	996.00	1007.91	1027.04
17+99.95 FP	25.16' RT	1+25.00	996.00	1007.67	1025.18
18+26.62 FP	25.01' RT	1+50.00	996.00	1007.09	1020.95
18+46.88 FP	24.79' RT	1+69.00	996.00	1006.59	1017.73
18+53.28 FP	24.70' RT	1+75.00	996.00	1006.42	1017.14
18+79.90 FP	24.25' RT	2+00.00	996.00	1005.67	1014.68
19+06.49 FP	23.65' RT	2+25.00	987.00	1004.88	1012.22
19+17.11 FP	23.36' RT	2+35.00	987.00	1004.57	1011.20
19+33.02 FP	22.90' RT	2+50.00	987.00	1004.10	1011.13
19+59.49 FP	22.01' RT	2+75.00	987.00	1003.36	1011.01
19+85.15 FP	21.22' RT	3+00.00	998.00	1002.77	1010.89
20+12.23 FP	20.39' RT	3+25.00	998.00	1002.35	1010.77
20+27.23 FP	19.92' RT	3+40.00	998.00	1002.17	1010.70
20+37.22 FP	19.72' RT	3+50.00	998.00	1002.07	1008.02
20+56.22 FP	19.33' RT	3+69.00	998.00	1001.92	1002.92



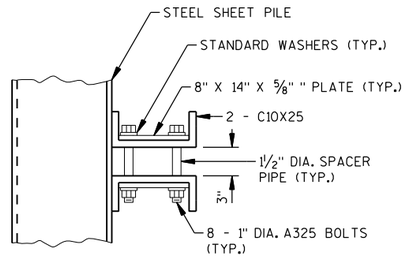
HELICAL TIEBACK ANCHOR DETAIL



TYPICAL SHEET PILE WALL SECTION



SECTION A-A



WALER SPLICE DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-1000-TW1

DRAWN BY MJK | PLANS CK'D. MSK

HELICAL TIEBACK ANCHOR DETAILS

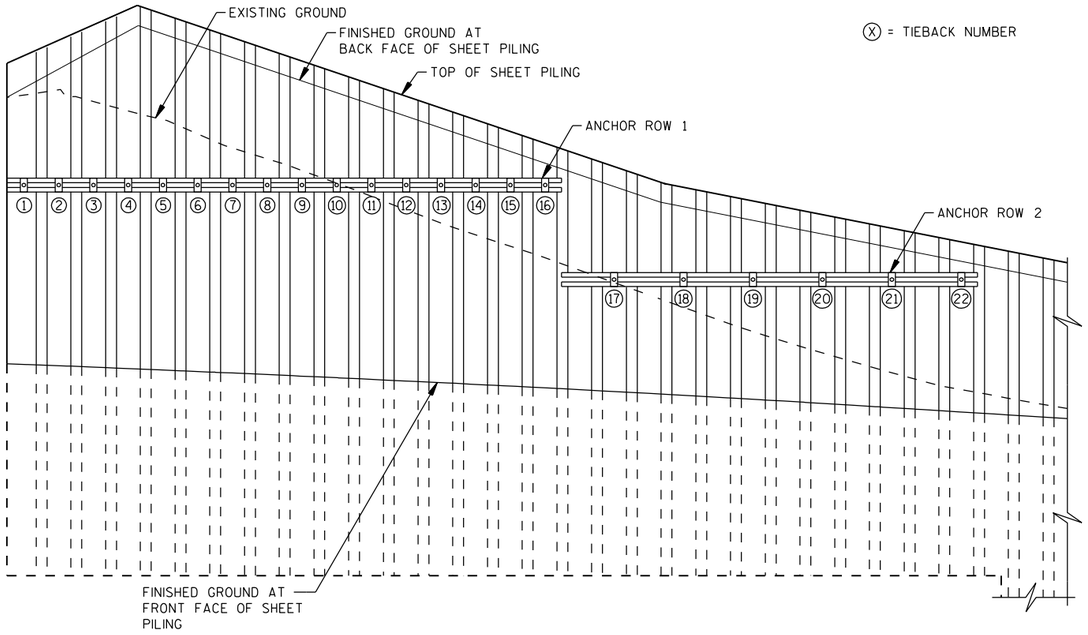
SHEET 2 OF 4
1085

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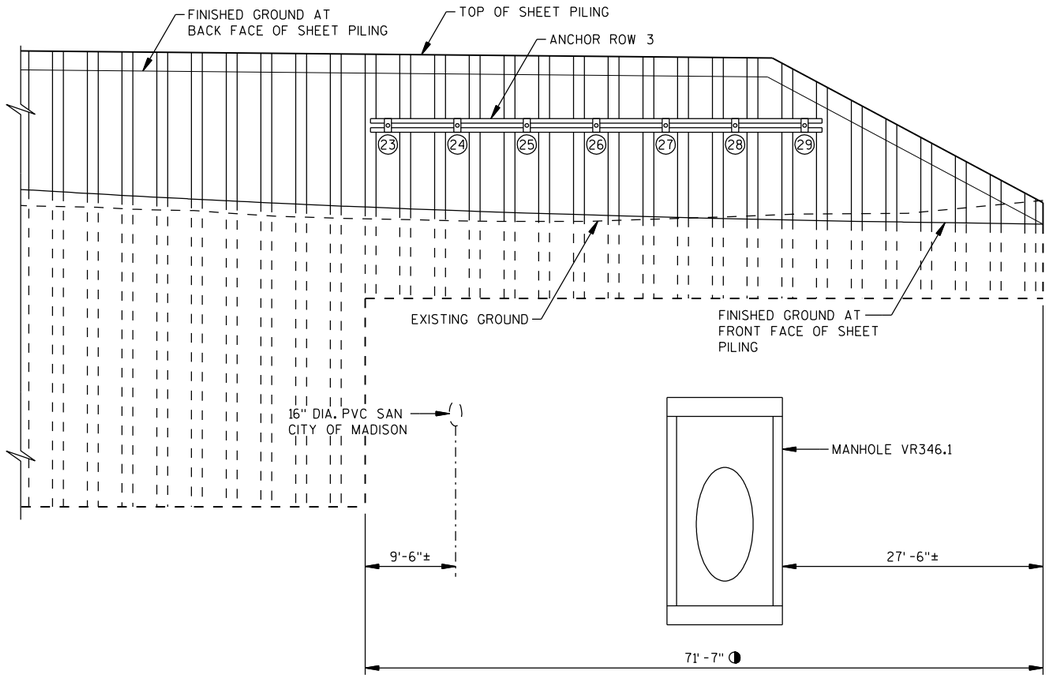
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BATCH PRINT SHEET 3 OF 4



TIEBACK ANCHOR LAYOUT

ANCHOR ROWS 1 AND 2



TIEBACK ANCHOR LAYOUT

ANCHOR ROW 3

◑ DO NOT DRIVE SHEET PILING IN THIS LOCATION. EXCAVATE TO MINIMUM SHEET PILE DEPTH SHOWN ON SHEET 1 AND PLACE SHEET PILING.

HELICAL TIEBACK ANCHOR SCHEDULE - WALL R-13-1000-TW1

TIEBACK NUMBER	WALL TIEBACK STATION[1]	ANCHOR ROW	TIEBACK ELEVATION[2]	RECOMMENDED SHAFT DIAMETER	TIEBACK VERTICAL ORIENTATION (DEGREES)	TIEBACK HORIZONTAL ORIENTATION[3] (DEGREES)	MINIMUM ANCHORED LENGTH[4] (FT)	MINIMUM TOTAL ANCHOR LENGTH INSTALLED (FT)	MINIMUM ANCHOR TENSILE CAPACITY (KIPS)	DESIGN LOAD (KIPS)	60% LOCK OFF LOAD	PROOF TEST LOAD[5] (KIPS)	INSTALLATION TORQUE (FT-LBS)
1	1+01.83	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
2	1+05.50	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
3	1+09.17	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
4	1+12.83	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
5	1+16.50	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
6	1+20.17	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
7	1+23.83	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
8	1+27.50	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
9	1+31.17	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
10	1+34.83	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
11	1+38.50	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	65	39	81	6500
12	1+42.17	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	62	37	78	6200
13	1+45.83	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	55	33	69	5500
14	1+49.50	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	50	30	63	5000
15	1+53.17	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	45	27	56	4500
16	1+56.83	1	1018.00	1 3/4-INCH RCS	15	90	4.5	25	100	40	24	50	4000
17	1+64.17	2	1013.00	1 1/2-INCH RCS	15	90	3.5	20	70	34	20	43	3400
18	1+71.50	2	1013.00	1 1/2-INCH RCS	15	90	3.5	20	70	32	19	40	3200
19	1+78.83	2	1013.00	1 1/2-INCH RCS	15	90	3.5	20	70	30	18	38	3000
20	1+86.17	2	1013.00	1 1/2-INCH RCS	15	90	3.5	20	70	26	16	33	2600
21	1+93.50	2	1013.00	1 1/2-INCH RCS	15	90	3.5	20	70	22	13	28	2200
22	2+00.83	2	1013.00	1 1/2-INCH RCS	15	90	3.5	20	70	18	11	23	1800
23	2+97.40	3	1007.00	1 1/2-INCH RCS	15	90	3.5	20	70	25	15	31	2500
24	3+04.73	3	1007.00	1 1/2-INCH RCS	15	90	3.5	20	70	25	15	31	2500
25	3+12.07	3	1007.00	1 1/2-INCH RCS	15	90	3.5	20	70	25	15	31	2500
26	3+19.40	3	1007.00	1 1/2-INCH RCS	15	90	3.5	20	70	25	15	31	2500
27	3+26.73	3	1007.00	1 1/2-INCH RCS	15	90	3.5	20	70	25	15	31	2500
28	3+34.07	3	1007.00	1 1/2-INCH RCS	15	90	3.5	20	70	25	15	31	2500
29	3+41.40	3	1007.00	1 1/2-INCH RCS	15	90	3.5	20	70	25	15	31	2500

NOTES:

(1) TO MATCH FIELD CONDITION, CONTRACTOR MAY SUBMIT AN ADJUSTMENT TO TIEBACK STATION, LOCATION, AND ELEVATION TO THE ENGINEER FOR CONSIDERATION.

(2) ELEVATION GIVEN AT FRONT FACE OF SHEET PILE

(3) HORIZONTAL ORIENTATION IS MEASURED FROM FRONT OF SHEET PILE WALL R.L. IN CLOCKWISE DIRECTION.

(4) MINIMUM ANCHORED LENGTH BASED ON 12" OR 10" DIAMETER TRIPLE HELIX LEAD SECTION.

(5) PROOF TEST LOAD EQUALS 1.25 × DESIGN LOAD.

CONSTRUCTION STAGING NOTES - ANCHOR ROWS 1 AND 2:

1. MAXIMUM EXCAVATION DEPTH IN FRONT OF SHEETPILE WALL SHALL NOT BE GREATER THAN 10 FEET PRIOR TO INSTALLATION OF HELICAL TIEBACK ANCHORS.
2. ELEVATION DIFFERENCE BETWEEN BACKFILL ELEVATION ON THE BACK SIDE OF THE SHEETPILE WALL AND THE FINISHED GROUND ELEVATION ON THE FRONT SIDE OF THE SHEETPILE WALL SHALL NOT BE GREATER THAN 10 FEET PRIOR TO INSTALLATION OF HELICAL TIEBACK ANCHORS.
3. MAXIMUM CONSTRUCTION SURCHARGE PRESSURE BEHIND SHEETPILE WALL SHALL NOT EXCEED 100 PSF.
4. MAINTAIN HORIZONTAL BACKFILL SLOPE (BEHIND SHEETPILE WALL) PRIOR TO HELICAL TIEBACK ANCHOR INSTALLATION.

CONSTRUCTION STAGING NOTES - ANCHOR ROW 3:

1. ELEVATION DIFFERENCE BETWEEN BACKFILL ELEVATION ON THE BACK SIDE OF THE SHEETPILE WALL AND THE FINISHED GROUND ELEVATION ON THE FRONT SIDE OF THE SHEETPILE WALL SHALL NOT BE GREATER THAN 5 FEET PRIOR TO INSTALLATION OF HELICAL TIEBACK ANCHORS.
2. MAXIMUM CONSTRUCTION SURCHARGE PRESSURE BEHIND SHEETPILE WALL SHALL NOT EXCEED 100 PSF.
3. MAINTAIN HORIZONTAL BACKFILL SLOPE (BEHIND SHEETPILE WALL) PRIOR TO HELICAL TIEBACK ANCHOR INSTALLATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-1000-TW1

DRAWN BY MJK | PLANS CK'D. MSK

HELICAL TIEBACK ANCHOR SCHEDULE

SHEET 3 OF 4
1086

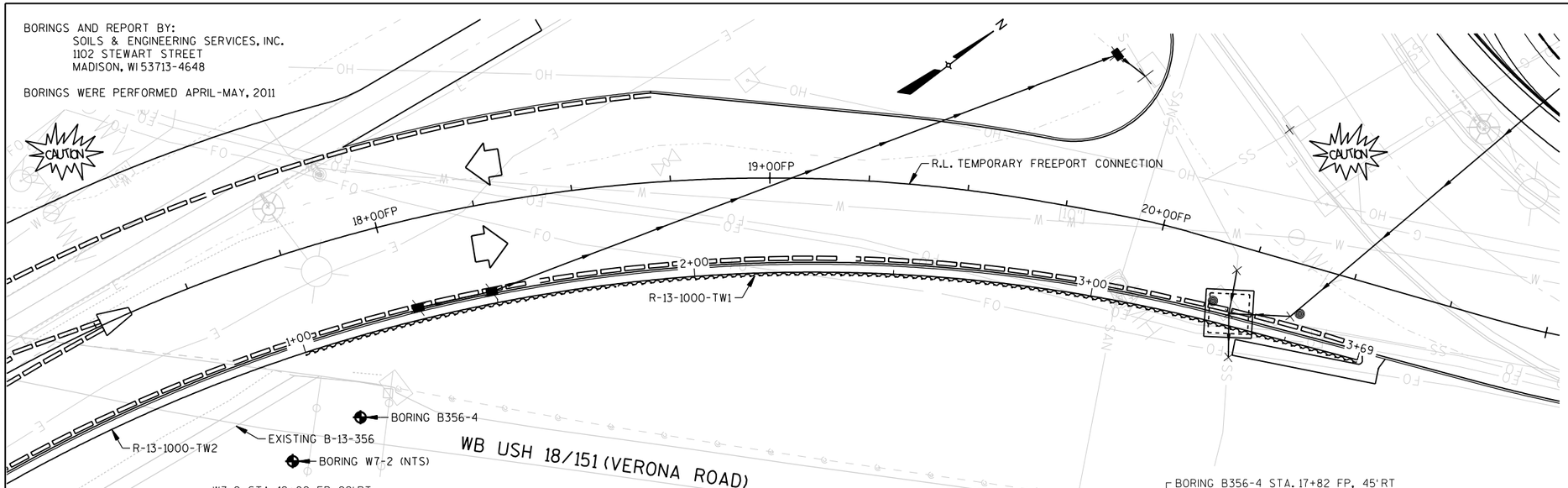
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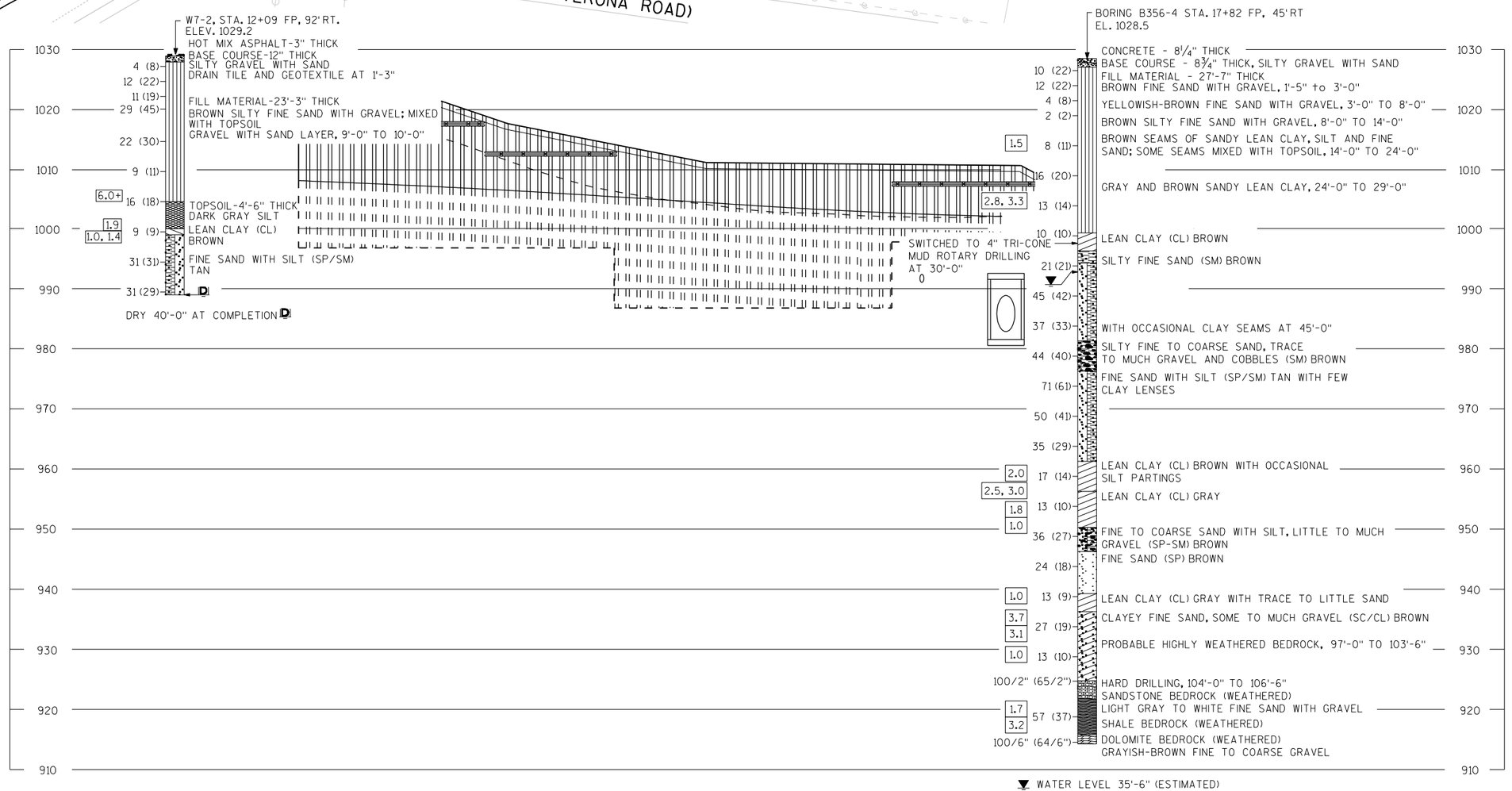
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BORINGS AND REPORT BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713-4648

BORINGS WERE PERFORMED APRIL-MAY, 2011





STATE PROJECT NUMBER

1206-07-77

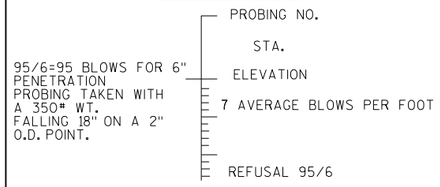
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

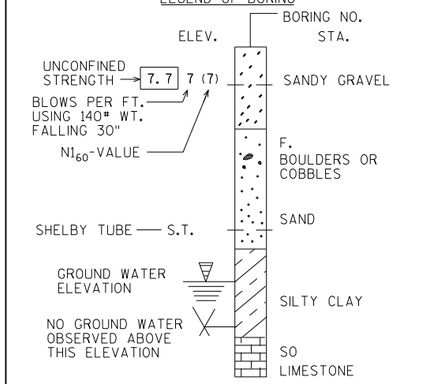
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-1000-TW1

DRAWN BY MJK | PLANS CK'D. MSK

SUBSURFACE EXPLORATION

SHEET 4 OF 4
1087

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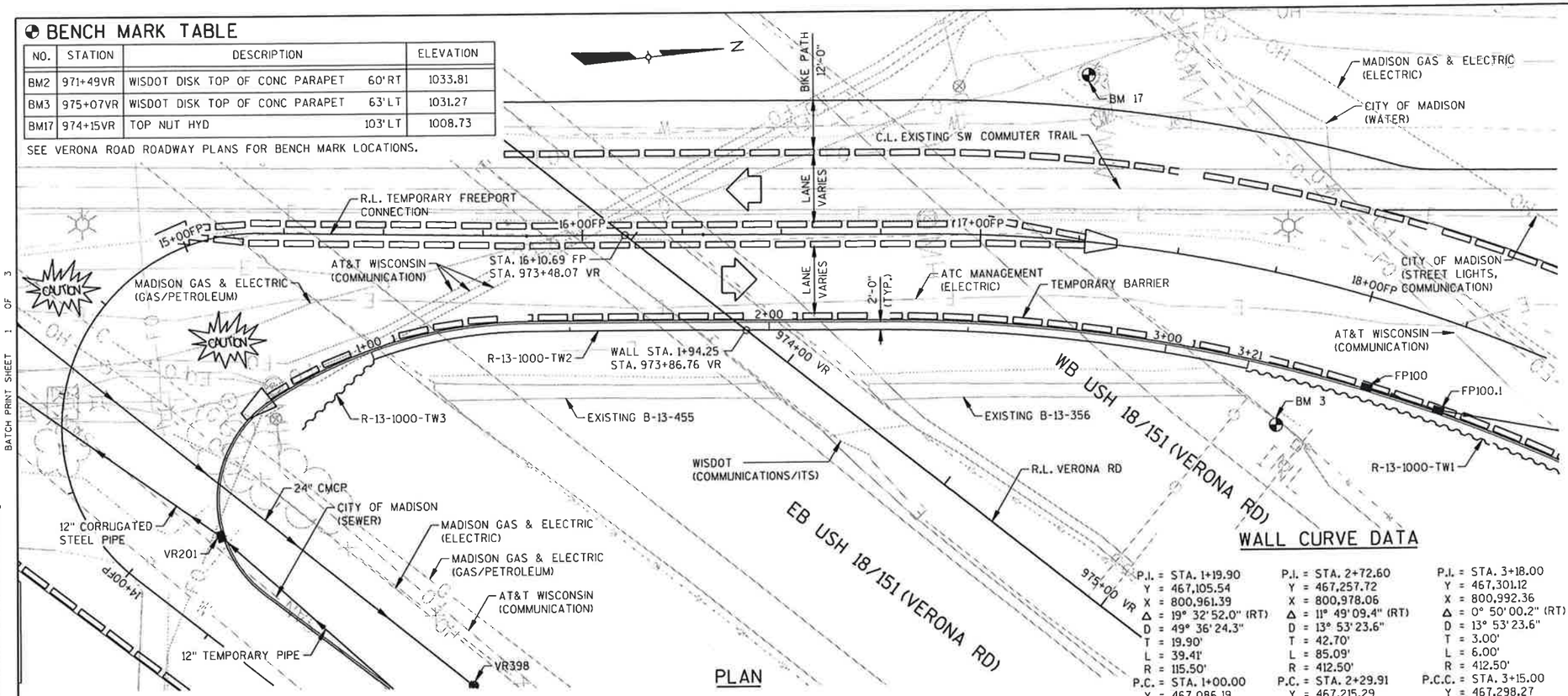
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BENCH MARK TABLE

NO.	STATION	DESCRIPTION		ELEVATION
BM2	971+49VR	WISDOT DISK TOP OF CONC PARAPET	60'RT	1033.81
BM3	975+07VR	WISDOT DISK TOP OF CONC PARAPET	63'LT	1031.27
BM17	974+15VR	TOP NUT HYD	103'LT	1008.73

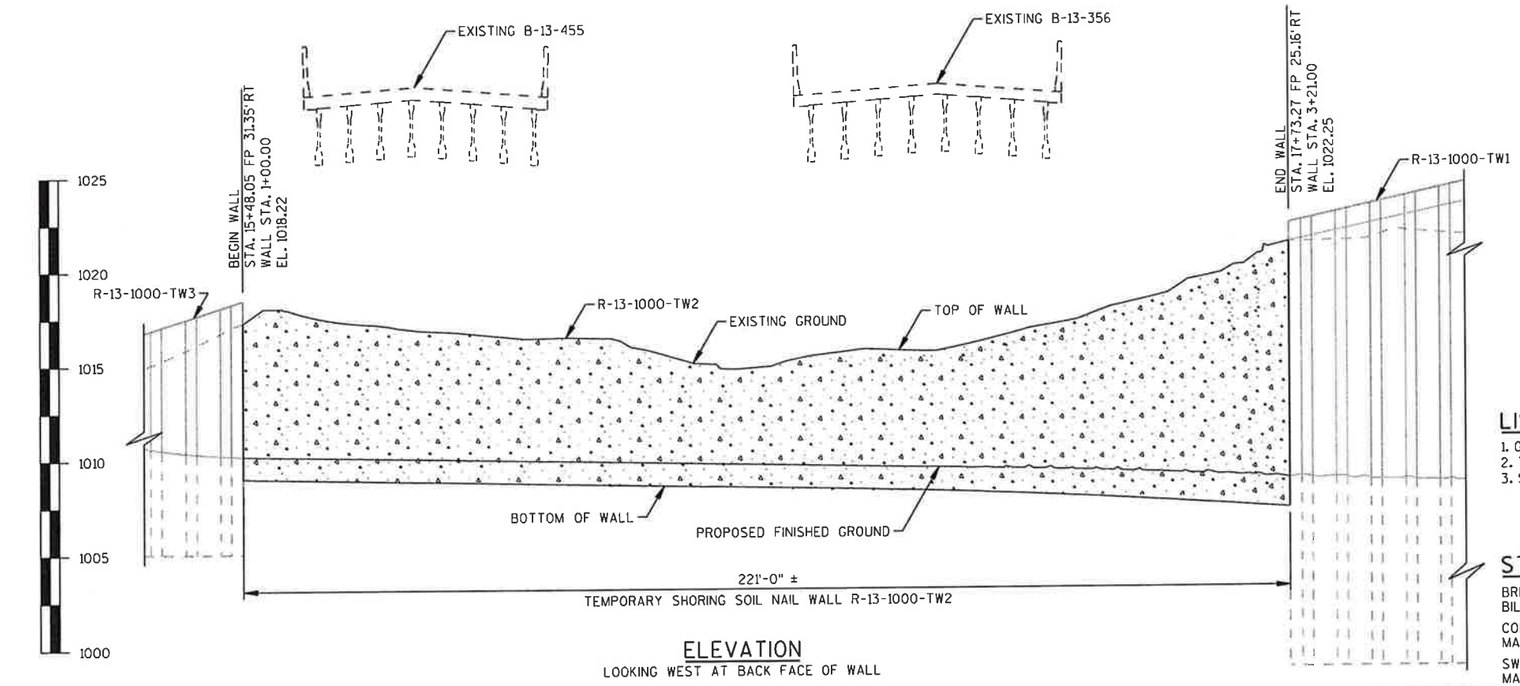
SEE VERONA ROAD ROADWAY PLANS FOR BENCH MARK LOCATIONS.



PLAN

WALL CURVE DATA

P.I. = STA. 1+19.90	P.I. = STA. 2+72.60	P.I. = STA. 3+18.00
Y = 467,105.54	Y = 467,257.72	Y = 467,301.12
X = 800,961.39	X = 800,978.06	X = 800,992.36
Δ = 19° 32' 52.0" (RT)	Δ = 11° 49' 09.4" (RT)	Δ = 0° 50' 00.2" (RT)
D = 49° 36' 24.3"	D = 13° 53' 23.6"	D = 13° 53' 23.6"
T = 19.90'	T = 42.70'	T = 3.00'
L = 39.41'	L = 85.09'	L = 6.00'
R = 115.50'	R = 412.50'	R = 412.50'
P.C. = STA. 1+00.00	P.C. = STA. 2+29.91	P.C.C. = STA. 3+15.00
Y = 467,086.19	Y = 467,215.29	Y = 467,298.27
X = 800,966.04	X = 800,973.29	X = 800,991.42
P.T. = STA. 1+39.41	P.C.C. = STA. 3+15.00	P.T. = STA. 3+21.00
Y = 467,125.32	Y = 467,298.27	Y = 467,303.96
X = 800,963.47	X = 800,991.42	X = 800,993.34



ELEVATION
LOOKING WEST AT BACK FACE OF WALL

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTION & ELEVATIONS
3. SUBSURFACE EXPLORATION

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
BILL DREHER (608) 266-8489

CONSULTANT:
MATT KRIPPNER (608) 828-8123

SW REGION:
MARK VESPERMAN (608) 246-7548

STATE PROJECT NUMBER
1206-07-77

MINIMUM DESIGN DATA

LIVELOAD:
LIVELOAD SURCHARGE — 100 PSF

MATERIAL PROPERTIES:
SHOTCRETE — f'c = 2,000 PSI(3 DAY)
f'c = 4,000 PSI(28 DAY)

NAIL GROUT — f'c = 1,500 PSI(3 DAY)
f'c = 3,000 PSI(28 DAY)

BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 PSI

STRUCTURAL STEEL CARBON, ASTM A709, GRADE 36 — fy = 36,000 PSI

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THESE PLANS ARE FOR TEMPORARY SHORING SOIL NAIL WALL. THE WALL WILL BE CONSTRUCTED AND LEFT IN PLACE UNDER THIS CONTRACT. WALL REMOVAL WILL BE COMPLETED UNDER A FUTURE CONTRACT.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE.

POT HOLE ALL EXISTING NORTH ABUTMENT PILE LOCATIONS FOR STRUCTURES B-13-356 AND B-13-455 PRIOR TO CONSTRUCTION. POT HOLE METHOD TO BE APPROVED BY ENGINEER.

LIMITS SHOWN FOR SOIL NAIL WALL PAID FOR UNDER BID ITEM "TEMPORARY SHORING SOIL NAIL WALL R-13-1000-TW2".

PAYMENT OF ROADWAY RELATED ITEMS ARE NOT PART OF R-13-1000-TW2.

ALLOWABLE WALL SYSTEMS

1. SOIL NAIL WALL

WISCONSIN
MATTHEW S. KRIPPNER
E-42470
VERONA
WI
PROFESSIONAL ENGINEER
2/1/13

NO.	DATE	REVISION	BY

AECOM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 03/04/13
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-13-1000-TW2

TEMPORARY SOIL NAIL WALL

COUNTY	DANE	~~TOWN~~/CITY/~~VILLAGE~~	MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	MSK	DESIGN CK'D.	ETP	DRAWN BY	MJK	PLANS CK'D.	MSK

GENERAL PLAN

SHEET 1 OF 3

1088

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BATCH PRINT SHEET 2 OF 3

STATE PROJECT NUMBER

1206-07-77

TABLE OF ELEVATIONS

MAINLINE STATION	MAINLINE OFFSET	WALL STATION	BOTTOM OF WALL ELEVATION	FINISHED GROUND ELEVATION	TOP OF WALL ELEVATION
15+48.05 FP	31.35' RT	1+00.00	1008.26	1010.01	1018.22
15+72.22 FP	25.15' RT	1+25.00	1008.13	1009.88	1018.14
15+96.72 FP	24.00' RT	1+50.00	1007.99	1009.74	1017.56
16+21.72 FP	24.00' RT	1+75.00	1007.86	1009.61	1017.34
16+46.89 FP	24.00' RT	2+00.00	1007.73	1009.48	1015.87
16+71.89 FP	24.00' RT	2+25.00	1007.60	1009.35	1016.50
16+97.58 FP	24.34' RT	2+50.00	1007.43	1009.18	1016.75
17+24.21 FP	24.76' RT	2+75.00	1007.17	1008.92	1018.14
17+50.87 FP	25.04' RT	3+00.00	1006.81	1008.56	1020.29
17+73.27 FP	25.16' RT	3+21.00	1006.44	1008.19	1022.25

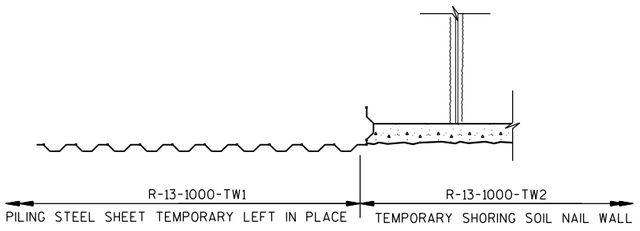
SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS BORING W7-2	UNIT WEIGHT (pcf)	FRICTION ANGLE (DEGREES)	COHESION (psf)
EL.1028.0 - EL. 1004.7 FILL MATERIAL - SILTY FINE SAND WITH GRAVEL MIXED WITH TOPSOIL	125	33	0
EL.1004.7 - EL. 1000.2 TOPSOIL	134	9	1500
EL.1000.2 - EL. 999.2 LEAN CLAY (CL)	125	0	1000
EL. 999.2 - EL. 989.2 FINE SAND WITH SILT (SP/SM)	125	35	0
STRATUM LOCATIONS & SOIL DESCRIPTIONS BORING B356-4	**UNIT WEIGHT (pcf)**	**FRICTION ANGLE (DEGREES)**	**COHESION (psf)**
EL. 1027.0 - EL. 1022.5 FILL MATERIAL - FINE SAND AND GRAVEL	125	33	0
EL. 1022.5 - EL. 1014.5 FILL MATERIAL - SILTY FINE SAND WITH GRAVEL	125	29	0
EL. 1014.5 - EL. 1006.5 FILL MATERIAL - SEAMS OF SANDY LEAN CLAY, SILT AND FINE SAND	130	30	1500
EL. 1006.5 - EL. 999.5 FILL MATERIAL - SANDY LEAN CLAY	130	15	2800
EL. 999.5 - EL. 996.5 LEAN CLAY (CL)	125	0	2800
EL. 996.5 - EL. 994.5 SILTY FINE SAND (SM)	125	33	0

TOTAL ESTIMATED QUANTITIES

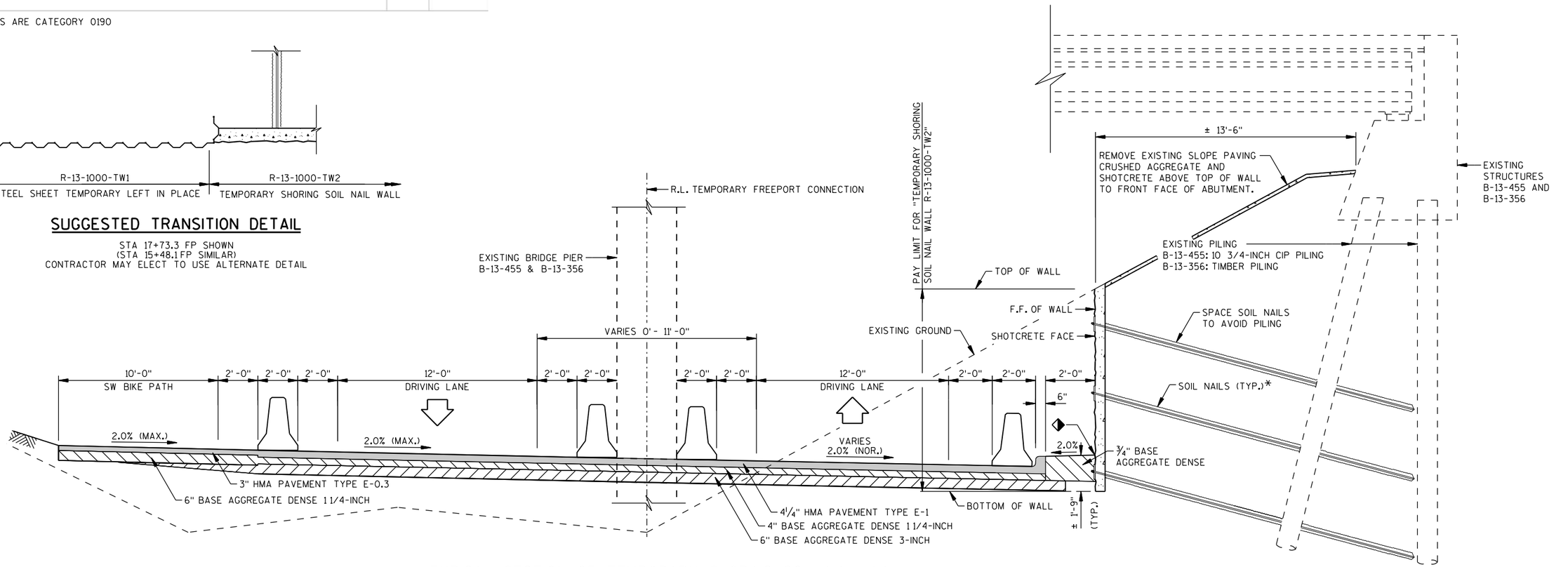
BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
SPV.0165.01	TEMPORARY SHORING SOIL NAIL WALL R-13-1000-TW2	SF	2,260

ALL QUANTITIES ARE CATEGORY 0190



SUGGESTED TRANSITION DETAIL

STA 17+73.3 FP SHOWN
(STA 15+48.1 FP SIMILAR)
CONTRACTOR MAY ELECT TO USE ALTERNATE DETAIL



TYPICAL SECTION OF TEMPORARY SHORING SOIL NAIL WALL

(LOOKING UP STATION)

*NUMBER OF ROWS AND SPACING OF SOIL NAILS TO BE DETERMINED BY CONTRACTOR

◆ POINT REFERRED TO FOR STATION, OFFSET, AND FINISHED GROUND ELEVATION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-1000-TW2

DRAWN BY MJK | PLANS CK'D. MSK

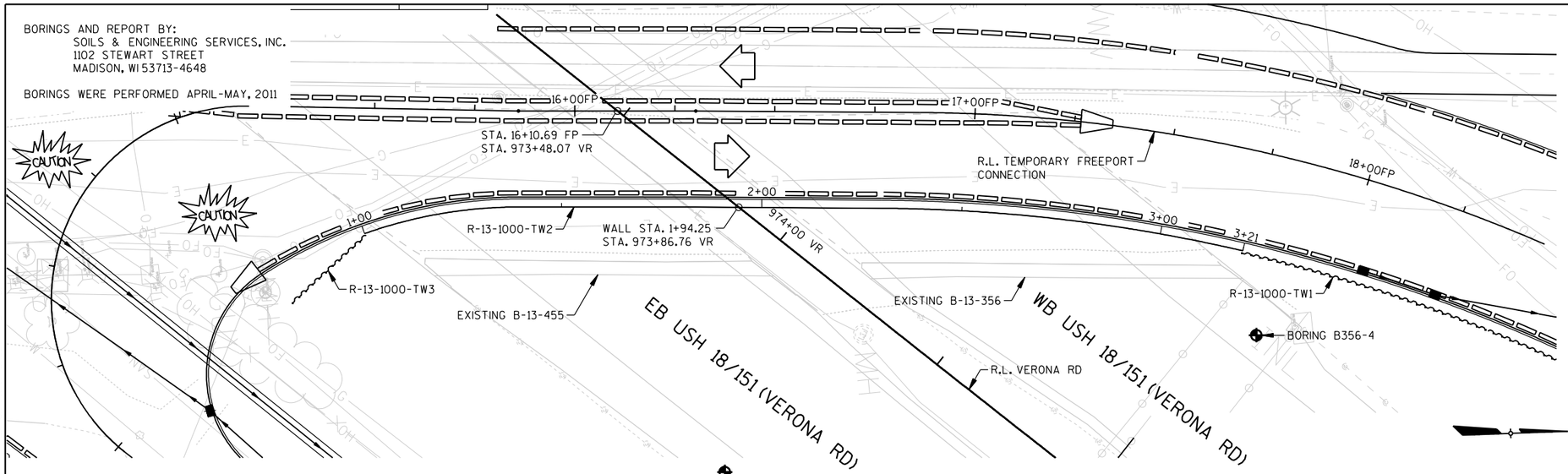
TYPICAL SECTION & ELEVATIONS

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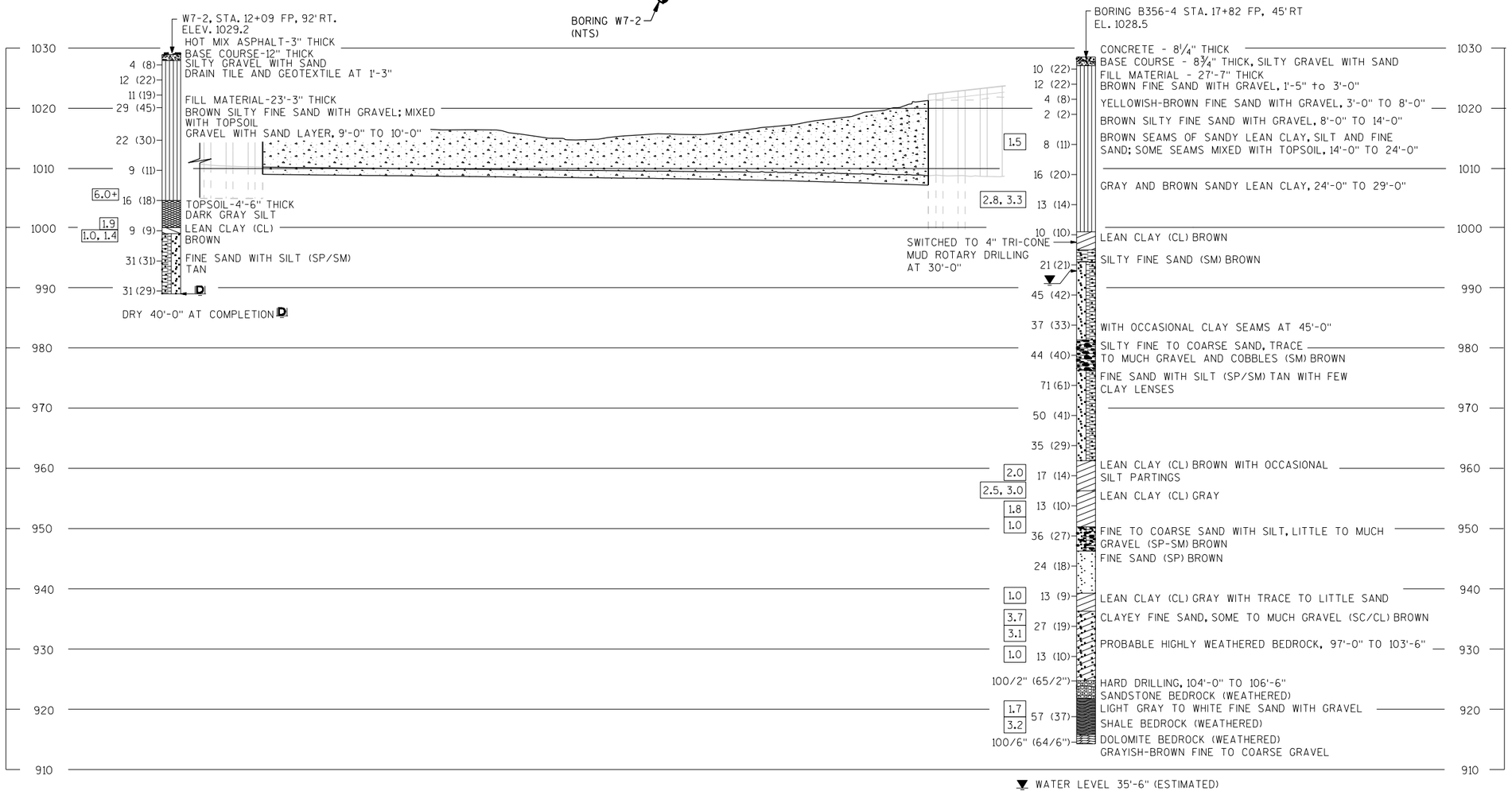
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BORINGS AND REPORT BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713-4648

BORINGS WERE PERFORMED APRIL-MAY, 2011



BORING W7-2
(NTS)



STATE PROJECT NUMBER

1206-07-77

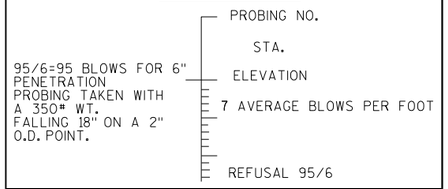
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

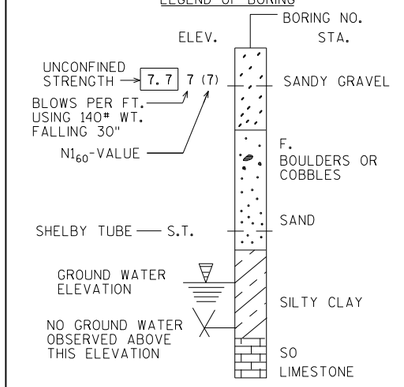
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-1000-TW2

DRAWN BY MJK | PLANS CK'D. MSK

SUBSURFACE EXPLORATION

SHEET 3 OF 3
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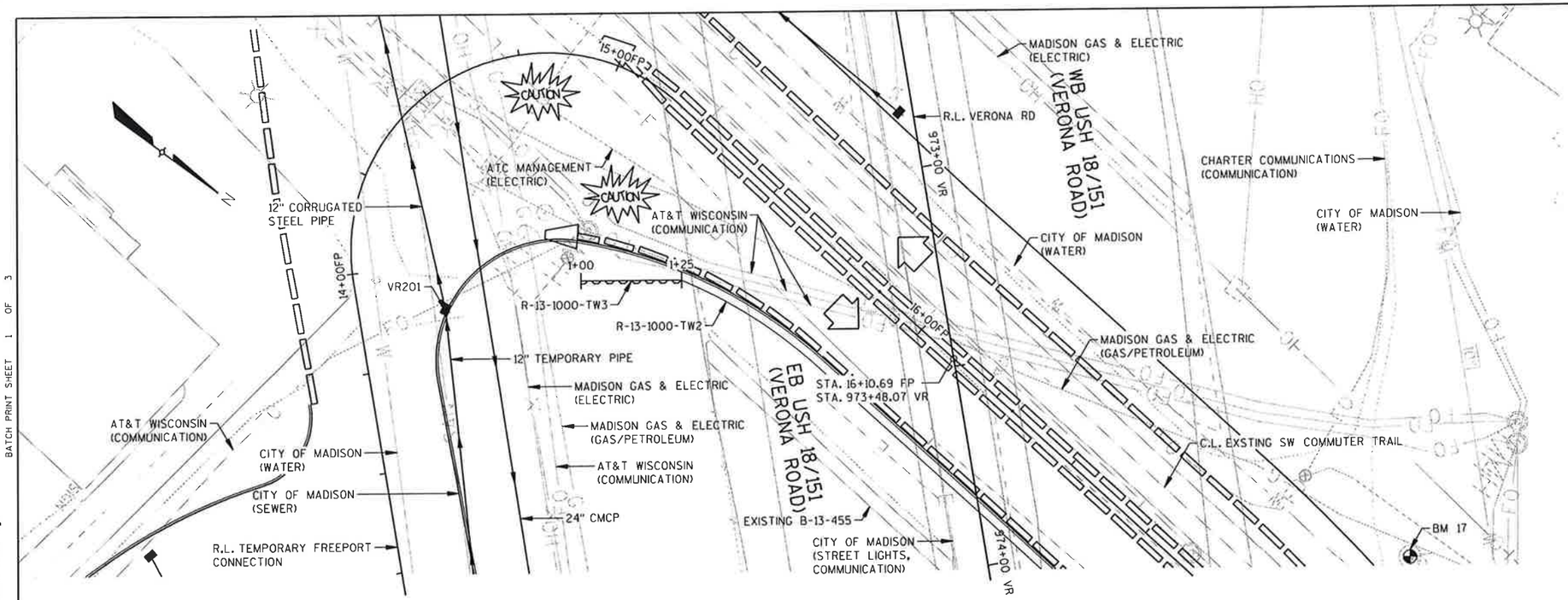
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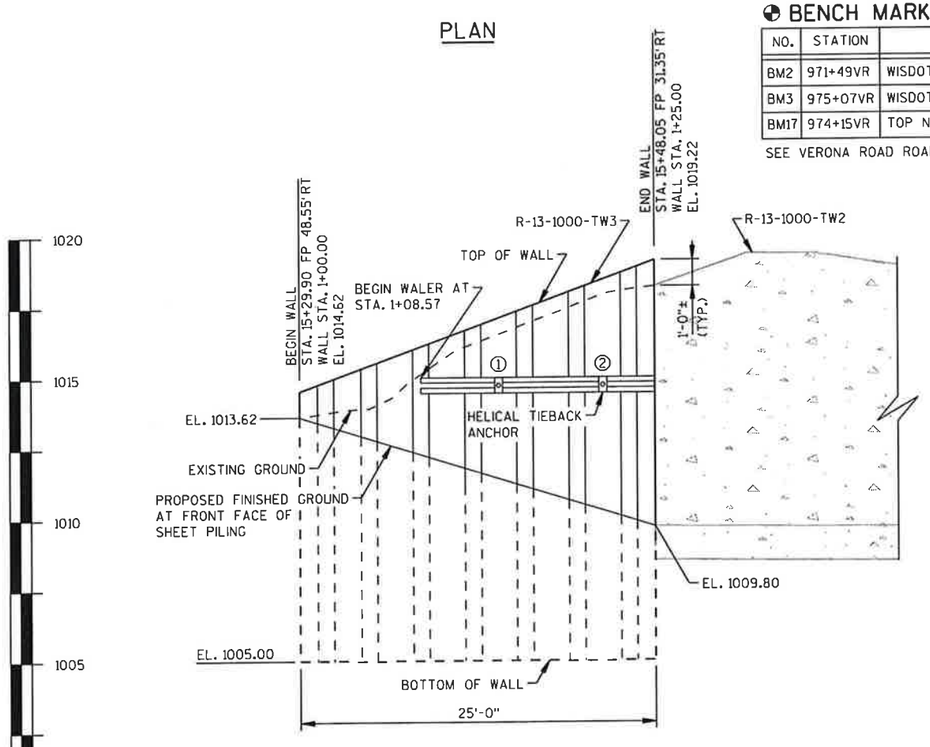
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STATE PROJECT NUMBER
1206-07-77



PLAN



ELEVATION

LOOKING SOUTH AT BACK FACE OF WALL

Ⓧ = HELICAL TIEBACK ANCHOR NUMBER

BENCH MARK TABLE

NO.	STATION	DESCRIPTION	ELEVATION
BM2	971+49VR	WISDOT DISK TOP OF CONC PARAPET 60'RT	1033.81
BM3	975+07VR	WISDOT DISK TOP OF CONC PARAPET 63'LT	1031.27
BM17	974+15VR	TOP NUT HYD 103'LT	1008.73

SEE VERONA ROAD ROADWAY PLANS FOR BENCH MARK LOCATIONS.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	TOTALS
506.0105	STRUCTURAL STEEL CARBON	LB	1,070
SPV.0060.95	HELICAL TIEBACK ANCHOR	EACH	2
SPV.0165.10	PILING STEEL SHEET TEMPORARY LEFT IN PLACE	SF	300

ALL QUANTITIES ARE CATEGORY 0190

LIST OF DRAWINGS

1. GENERAL PLAN
2. HELICAL TIEBACK ANCHOR DETAILS
3. SUBSURFACE EXPLORATION

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
BILL DREHER (608) 266-8489

CONSULTANT:
JUSTIN WARNER (608) 828-8205

SW REGION:
MARK VESPERMAN (608) 246-7548

DESIGN DATA

LIVE LOAD:
LIVE LOAD SURCHARGE ——— 100 PSF

MATERIAL PROPERTIES:
TEMPORARY STEEL SHEET PILE (ASTM A328) —— fy = 39,000 PSI
STRUCTURAL STEEL CARBON ——— f'y = 36,000 PSI

MINIMUM SHEET PILE SECTION MODULUS:
STEEL SHEET PILE ——— Sx = 18.1 $inch^3/ft$

MINIMUM SHEET PILE DEPTH ——— SEE THIS SHEET

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THESE PLANS ARE FOR TEMPORARY STEEL SHEET PILE RETAINING WALL R-13-1000-TW3. THE WALL WILL BE CONSTRUCTED AND LEFT IN PLACE UNDER THIS CONTRACT. WALL REMOVAL WILL BE COMPLETED UNDER A FUTURE CONTRACT.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

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PAYMENT OF ROADWAY RELATED ITEMS ARE NOT PART OF R-13-1000-TW3.

WISCONSIN
JUSTIN D. WARNER
E-42425
SAUK CITY
WI
PROFESSIONAL ENGINEER
02/01/2013

NO.	DATE	REVISION	BY

AECOM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 03/04/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-1000-TW3

TEMPORARY STEEL SHEET PILE WALL

COUNTY DANE ~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	JDW	DESIGN CK'D.	JEA	DRAWN BY	MJK	PLANS CK'D.	MSK

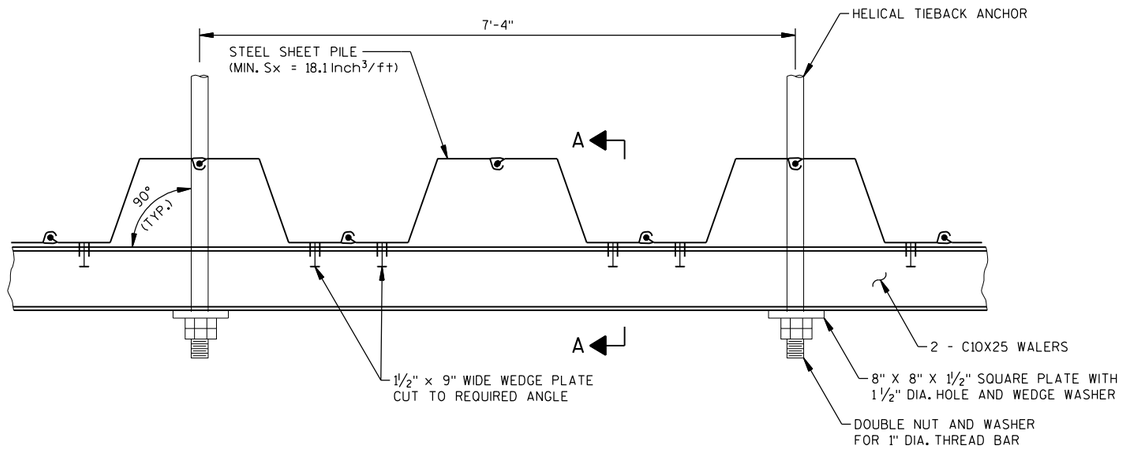
GENERAL PLAN

SHEET 1 OF 3

1091

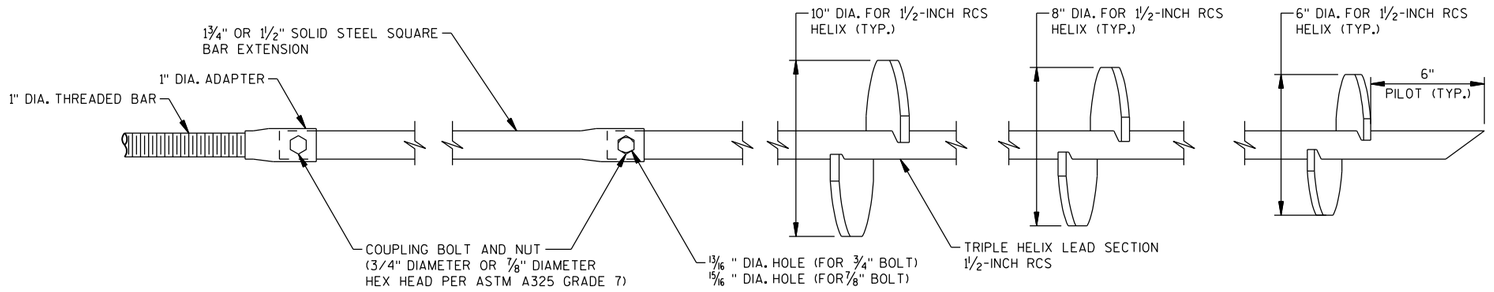
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BATCH PRINT SHEET 2 OF 3



WALING CONNECTION TO SHEET PILE DETAIL

STA. 1+08.57 TO STA. 1+25



HELICAL TIEBACK ANCHOR SCHEDULE - WALL R-13-1000-TW3

TIEBACK NUMBER	WALL TIEBACK STATION[1]	TIEBACK ELEVATION[2]	RECOMMENDED SHAFT DIAMETER	TIEBACK VERTICAL ORIENTATION (DEGREES)	TIEBACK HORIZONTAL ORIENTATION[3] (DEGREES)	MINIMUM ANCHORED LENGTH[4] (FT)	MINIMUM TOTAL ANCHOR LENGTH INSTALLED (FT)	MINIMUM ANCHOR TENSILE CAPACITY (KIPS)	DESIGN LOAD (KIPS)	60% LOCK OFF LOAD	PROOF TEST LOAD[5] (KIPS)	INSTALLATION TORQUE (FT-LBS)
1	1+14.07	1015.00	1 1/2-INCH RCS	15	90	3.5	15	70	28	17	35	2800
2	1+21.40	1015.00	1 1/2-INCH RCS	15	90	3.5	15	70	18	11	23	1800

NOTES:

(1) TO MATCH FIELD CONDITION, CONTRACTOR MAY SUBMIT AN ADJUSTMENT TO TIEBACK STATION, LOCATION, AND ELEVATION TO THE ENGINEER FOR CONSIDERATION.

(2) ELEVATION GIVEN AT FRONT FACE OF SHEET PILE

(3) HORIZONTAL ORIENTATION IS MEASURED FROM FRONT OF SHEET PILE WALL R.L. IN CLOCKWISE DIRECTION.

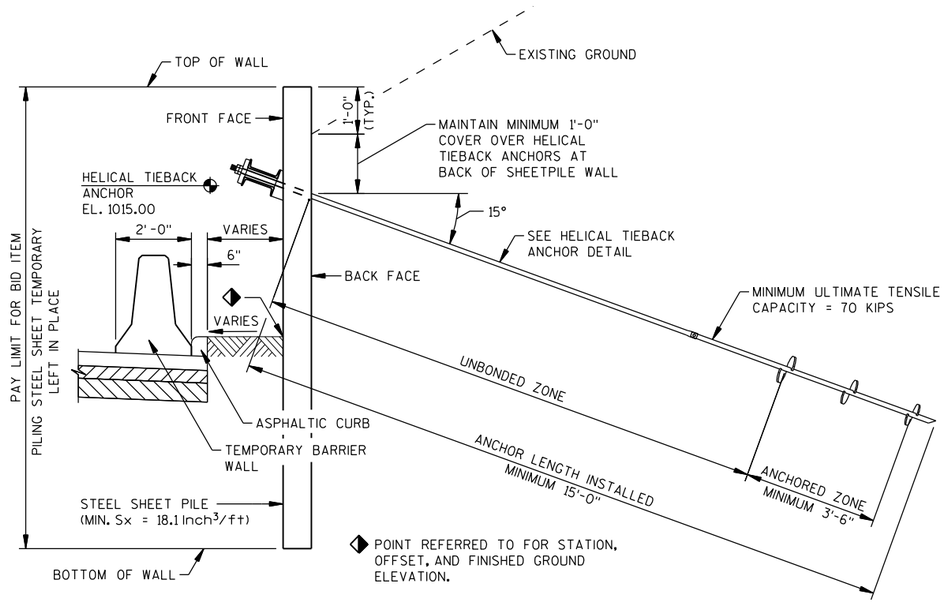
(4) MINIMUM ANCHORED LENGTH BASED ON 12" OR 10" DIAMETER TRIPLE HELIX LEAD SECTION.

(5) PROOF TEST LOAD EQUALS 1.25 x DESIGN LOAD.

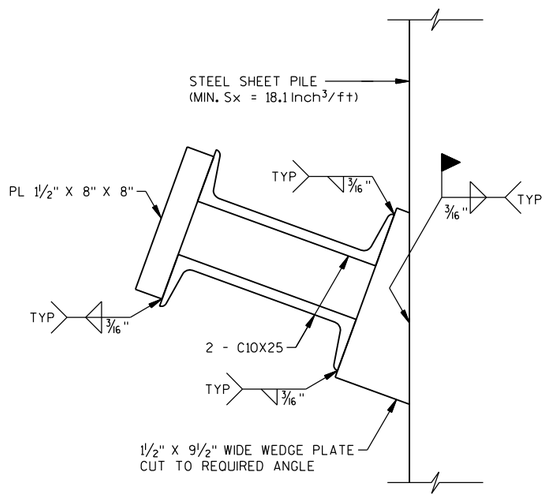
CONSTRUCTION STAGING NOTES

1. MAXIMUM EXCAVATION DEPTH IN FRONT OF SHEETPILE WALL SHALL NOT BE GREATER THAN 5 FEET PRIOR TO INSTALLATION OF HELICAL TIEBACK ANCHORS.
2. ELEVATION DIFFERENCE BETWEEN BACKFILL ELEVATION ON THE BACK SIDE OF THE SHEETPILE WALL AND THE FINISHED GROUND ELEVATION ON THE FRONT SIDE OF THE SHEETPILE WALL SHALL NOT BE GREATER THAN 5 FEET PRIOR TO INSTALLATION OF HELICAL TIEBACK ANCHORS.
3. MAXIMUM CONSTRUCTION SURCHARGE PRESSURE BEHIND SHEETPILE WALL SHALL NOT EXCEED 100 PSF.
4. MAINTAIN HORIZONTAL BACKFILL SLOPE (BEHIND SHEETPILE WALL) PRIOR TO HELICAL TIEBACK ANCHOR INSTALLATION.

HELICAL TIEBACK ANCHOR DETAIL



TYPICAL SHEET PILE WALL SECTION



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-1000-TW3

DRAWN BY MJK | PLANS CK'D. MSK

HELICAL TIEBACK ANCHOR DETAILS

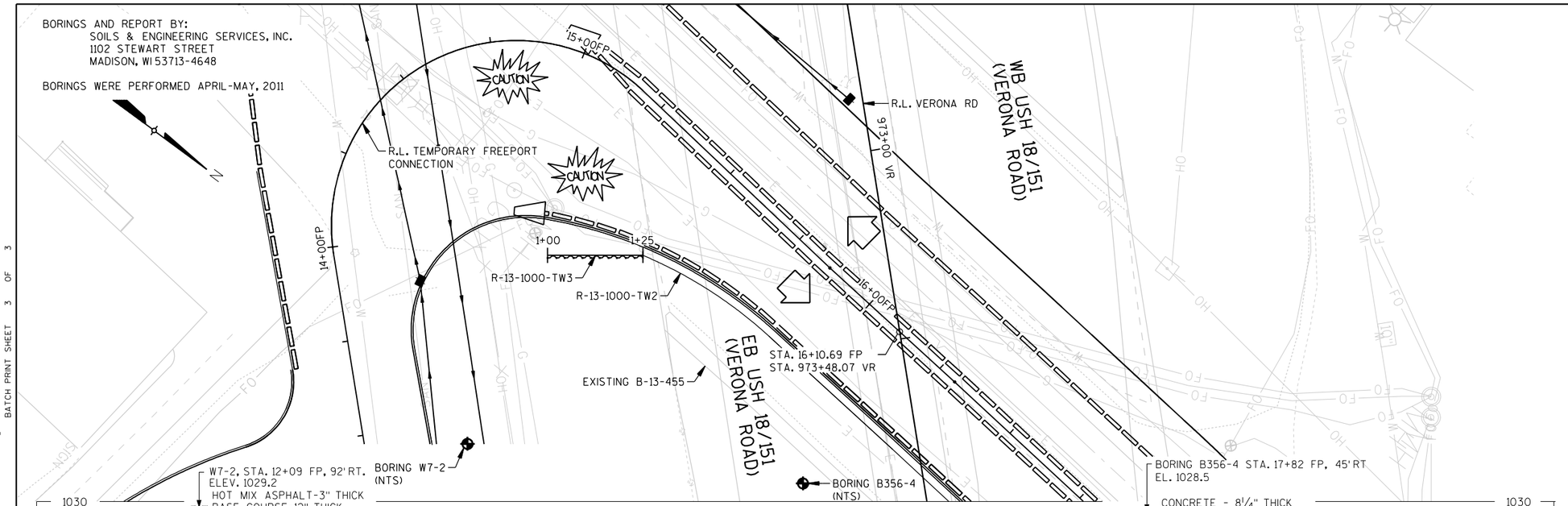
SHEET 2 OF 3
1092

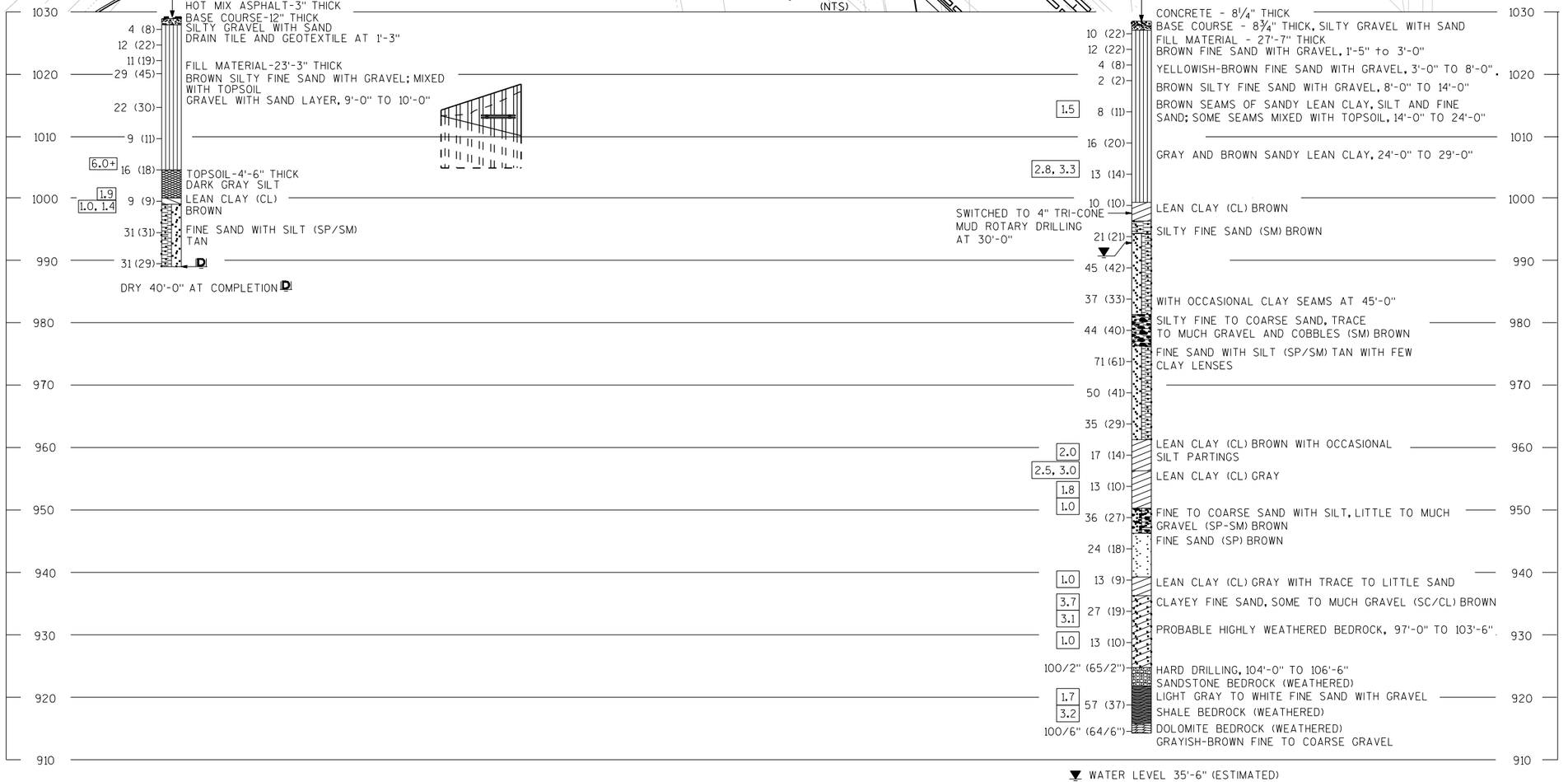
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BORINGS AND REPORT BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713-4648

BORINGS WERE PERFORMED APRIL-MAY, 2011





STATE PROJECT NUMBER

1206-07-77

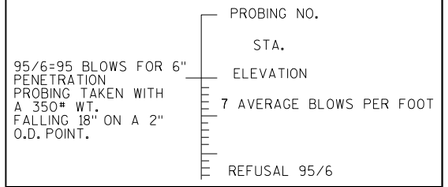
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

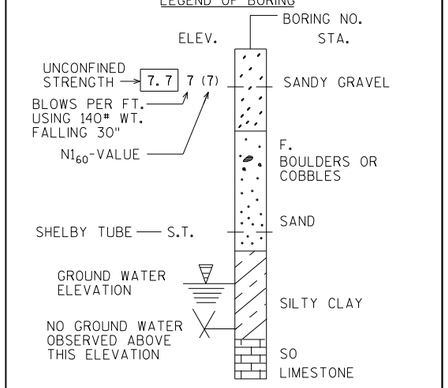
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-13-1000-TW3

DRAWN BY MJK | PLANS CK'D. MSK

SUBSURFACE EXPLORATION

SHEET 3 OF 3
1093

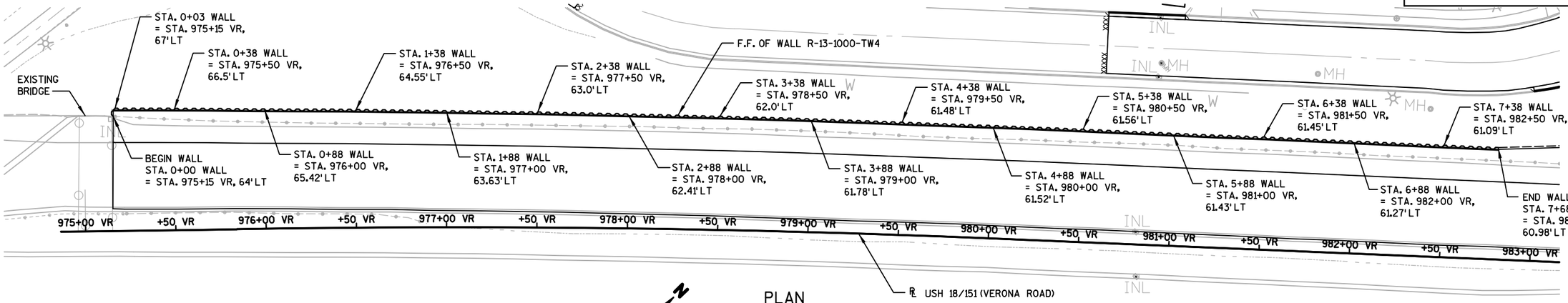
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STATE PROJECT NUMBER

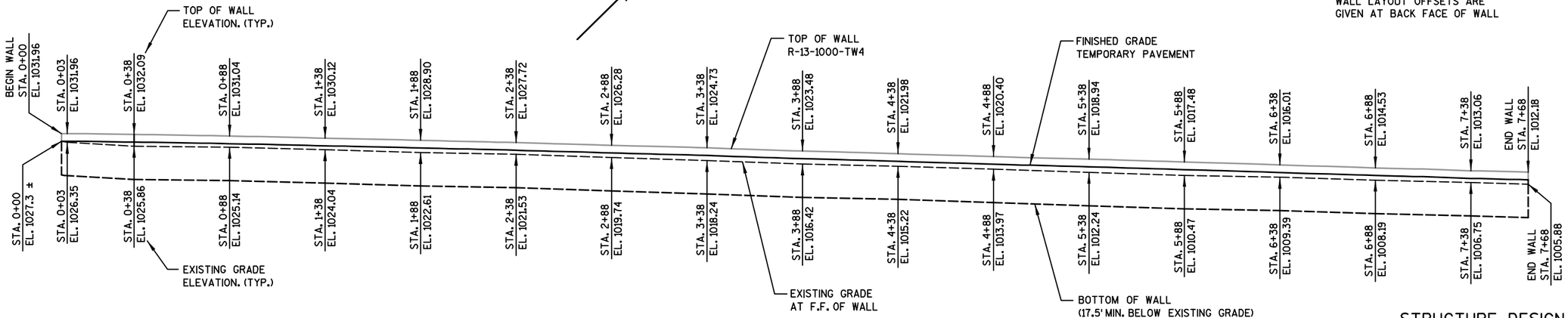
1206-07-77



PLAN

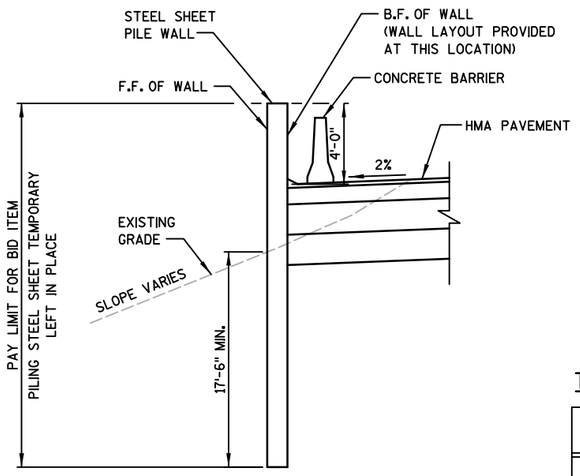
(SHEET PILE RETAINING WALL)

NOTE:
WALL LAYOUT OFFSETS ARE GIVEN AT BACK FACE OF WALL



ELEVATION

(LOOKING @ B.F. OF WALL)



TYPICAL CROSS SECTION OF WALL

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SHEET PILE RETAINING WALL	TOTALS
SPV.0165.10	PILING STEEL SHEET TEMPORARY LEFT IN PLACE	S.F.	18,378	18,378

ALL ITEMS ARE CATEGORY 0190.

WISCONSIN
BRETT M. OFTEDAHL E-41123 MADISON WI
PROFESSIONAL ENGINEER
1/30/13

LIST OF DRAWINGS

1. GENERAL PLAN
2. SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOADS:
WALL DESIGNED FOR LIVE LOAD SURCHARGE OF 240 PSF.

DESIGN STRESSES
STEEL SHEET PILING (ASTM A328) fy = 39000 PSI
MINIMUM PLASTIC SECTION MODULUS (Z) = 5.8 IN^3/FT

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

CONTRACTOR SHAL VERIFY THE LOCATION OF EXISTING UTILITIES. IF THERE ARE ANY CONFLICTS WITH THE NEW CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

STRUCTURE DESIGN CONTACTS

SW REGION CONTACT:
MARK VESPERMAN (608) 246-7548

BUREAU OF STRUCTURES CONTACT:
WILLIAM DREHER (608) 266-8489

DESIGN CONSULTANT CONTACT:
BRETT OFTEDAHL (608) 251-4843

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 03/04/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-13-1000-TW4

USH 18/151 S.B. (VERONA ROAD)

COUNTY	~~TOWN~~/CITY/~~VILLAGE~~
DANE	MADISON

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	AW	DESIGN CK'D.	BMO	DRAWN BY	DTH	PLANS CK'D.	BMO

GENERAL PLAN

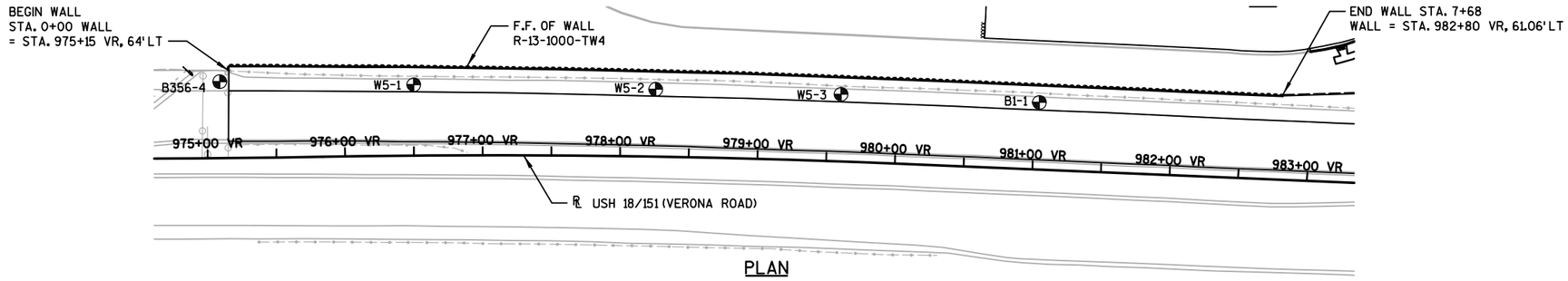
SHEET 1 OF 2
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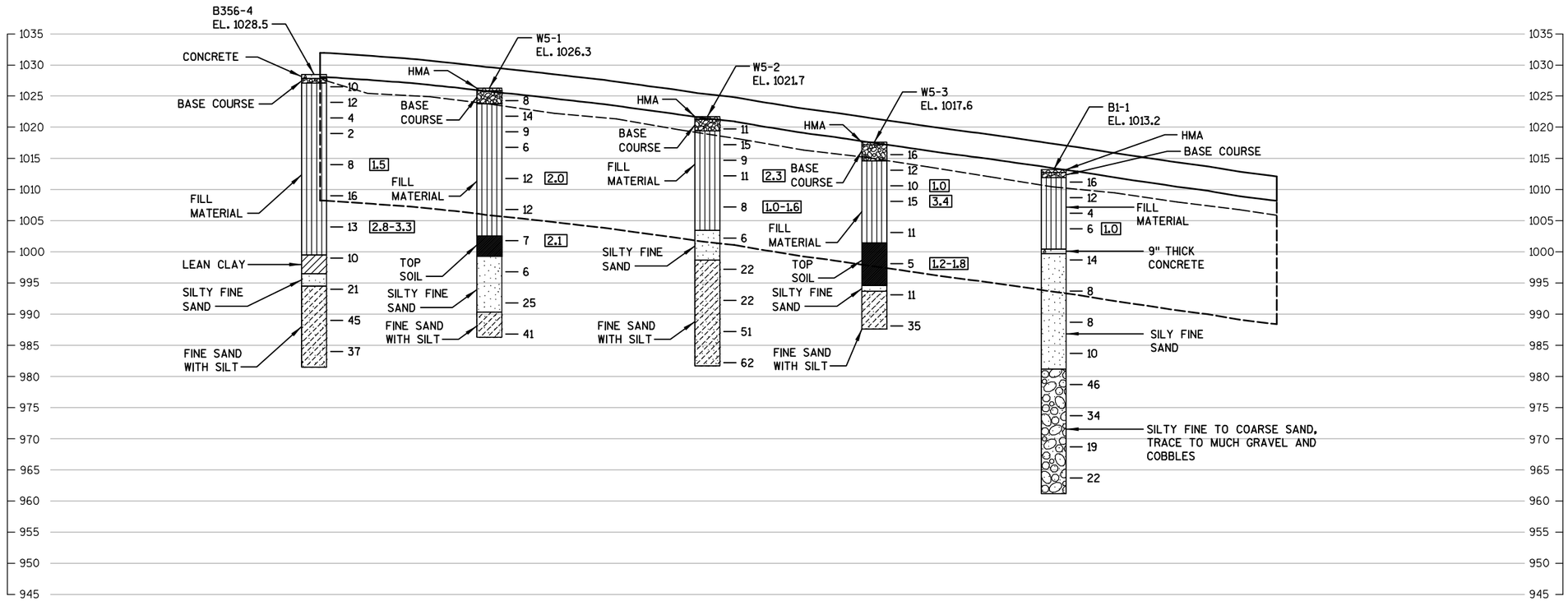
SOIL BORINGS PERFORMED IN
APRIL, 2011 BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713
(608) 274-7600



PLAN

NOTES:

1. CONCRETE RUBBLE WAS ENCOUNTERED IN BORING W5-2 AT 12'-0" TO 12'-4" DEPTH.
2. CONCRETE RUBBLE WAS ENCOUNTERED IN BORING W5-3 AT 15'-9" TO 16'-2" DEPTH.
3. 9" THICK CONCRETE WAS ENCOUNTERED AT 13'-6" DEPTH IN BORING B1-1. BORING WAS MOVED 5' TO SOUTHWEST AND NO CONCRETE WAS NOT PRESENT.



STATE PROJECT NUMBER

1206-07-77

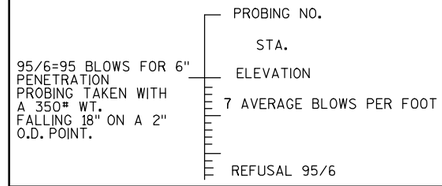
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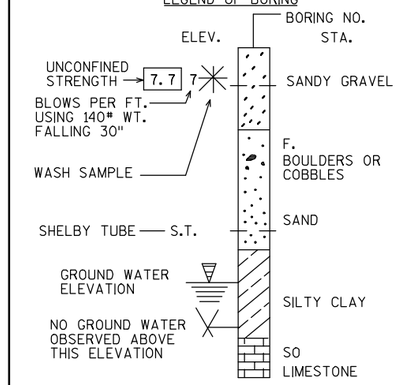
MATERIAL SYMBOLS

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SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

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LEGEND OF BORING



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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-13-1000-TW4

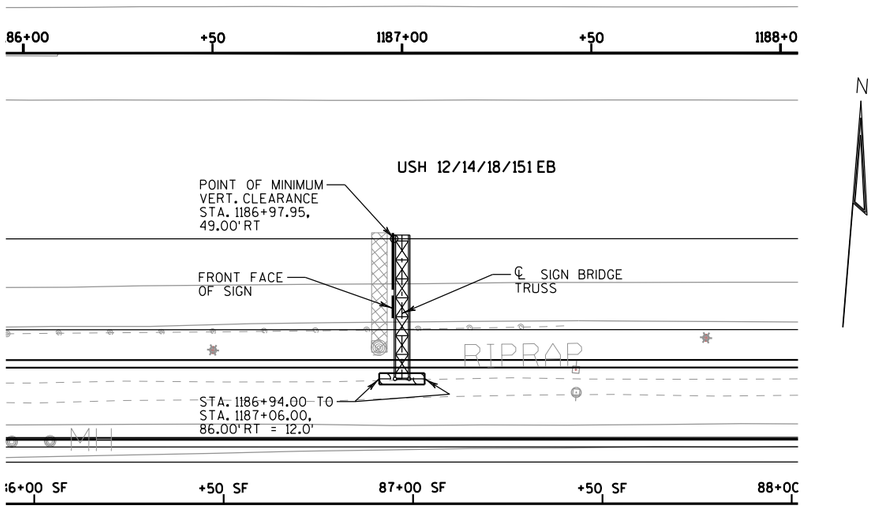
DRAWN BY DTH PLANS CK'D. DJW

SUBSURFACE EXPLORATION

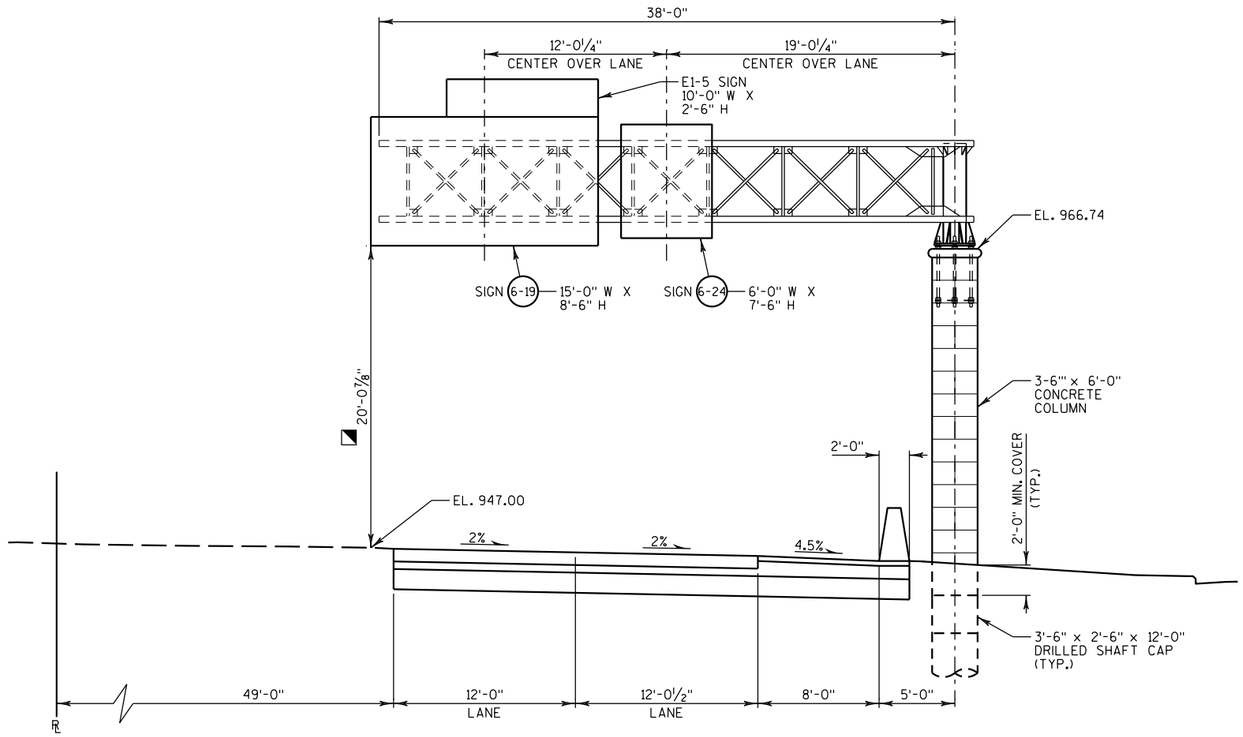
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PLAN
S-13-376



ELEVATION
(LOOKING EAST AT FRONT FACE OF SIGN)
S-13-376
USH 12/14/18/151
STA. 1187+00

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEM	UNIT	QUANTITY
517.1010.S.12	CONCRETE STAINING S-13-376	SF	440
636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	35
636.1000	SIGN SUPPORTS STEEL REINFORCEMENT HS	LB	1310
636.1500	SIGN SUPPORTS STEEL COATED REINFORCEMENT HS	LB	5250
◓ 641.1200	SIGN BRIDGE CANTILEVERED S-13-376	LS	1

ALL ITEMS ARE CATEGORY 0150

LEGEND

◓ THIS LUMP SUM PAY ITEM INCLUDES HORIZONTAL TRUSS, VERTICAL STEEL COLUMN, AND ANCHOR ASSEMBLIES.

SIGN (XX) SIGN NUMBER. SEE SIGNING PLAN.

◪ PROVIDES FOR A MAXIMUM SIGN DEPTH OF 12'-0" WITH A MINIMUM CLEARANCE OF 18'-3".

LIST OF DRAWINGS

1. LAYOUT & QUANTITIES S-13-376
2. LAYOUT & QUANTITIES S-13-384
3. LAYOUT & QUANTITIES S-13-394
4. LAYOUT & QUANTITIES S-13-395
5. SUBSURFACE EXPLORATION S-13-376
6. SUBSURFACE EXPLORATION S-13-384
7. SUBSURFACE EXPLORATION S-13-394
8. SUBSURFACE EXPLORATION S-13-395
9. COLUMN & FOOTING DETAILS - 1
10. COLUMN & FOOTING DETAILS - 2
11. AESTHETIC & ANCHOR BOLT DETAILS
12. GALVANIZED STEEL CANTILEVER SIGN TRUSS
13. GALVANIZED STEEL CANTILEVER SIGN TRUSS DETAILS
14. GALVANIZED STELL FULL-SPAN SIGN TRUSS
15. GALVANIZED STEEL FULL-SPAN SIGN TRUSS DETAILS

DESIGN DATA

DESIGN SIGN AREA
- S-13-376 ____ 264 SF
- S-13-384 ____ 720 SF
- S-13-394 ____ 720 SF
- S-13-395 ____ 720 SF

MAX. SIGN DEPTH
- S-13-376 ____ 12.0 FT
- S-13-384 ____ 12.0 FT
- S-13-394 ____ 12.0 FT
- S-13-395 ____ 12.0 FT

DESIGNED ACCORDING TO A.A.S.H.T.O. "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS" 5TH EDITION, 2009, WITH 2010 AND 2011 INTERIMS.

DEAD LOAD - WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD - 3 P.S.F. TO 1 FACE OF SIGN AND AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 90 M.P.H. (3-SECOND GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS.
NO PROVISIONS WERE MADE FOR LIGHT OR CATWALK LOADS.

WIND COMPONENTS	NORMAL	TRANSVERSE
COMBINATION 1	1.0	0.2
COMBINATION 2	0.6	0.3

GROUP LOADS	% OF ALLOWABLE STRESSES
1. DEAD	100
2. DEAD + WIND	133
3. DEAD + ICE + ½ (WIND)	133

NOTE: WIND LOAD FOR GROUP 3 LOADING SHALL NOT BE LESS THAN 25 P.S.F.

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY	f'c =	3,500 psi
HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60	fy =	60,000 psi
PLATE AND BARS - ASTM A709 GRADE 36	fy =	36,000 psi
HIGH STRENGTH BOLTS - A325	fy =	92,000 psi
ANCHOR BOLTS - AASHTO M314 GRADE 55	fy =	55,000 psi
HARDWARE GALVANIZED	ASTM A153 CLASS C	

SW REGION CONTACT:
MARK VESPERMAN (608) 246-7548

BUREAU OF STRUCTURES CONTACT:
WILLIAM DREHER (608) 266-8489

CONSULTANT CONTACT:
BILL HOVE (608) 828-1011

STATE PROJECT NUMBER
1206-07-77

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL REINFORCING BARS ARE ENGLISH. THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

SIGN BRIDGE IDENTIFICATION PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "SIGN BRIDGE STRUCTURE S-13-XXX". FABRICATE IN ACCORDANCE WITH S.D.D. 12A4-3.

CENTER SIGNS VERTICALLY ON TRUSS.

ELEVATIONS ARE IN FEET UNLESS OTHERWISE SHOWN OR NOTED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

CASINGS FOR THE FOOTING SHAFTS ARE INCIDENTAL TO THE BID ITEM "SIGN SUPPORTS CONCRETE MASONRY" IN ACCORDANCE WITH SECTION 636.3.3 OF THE STANDARD SPECIFICATIONS.

SIGNS OR BLANKS SHALL BE INSTALLED ON THE TRUSS AT TIME OF ERECTION. FOR FULL-SPAN SIGN BRIDGES BLANKS SHALL BE 1/4 THE LENGTH OF THE BRIDGE, 2'-0" DEEPER THAN THE CENTER TO CENTER DISTANCE BETWEEN THE CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. FOR CANTILEVER SIGN BRIDGES, BLANKS SHALL BE THE SAME SIZE AND LOCATION AS PERMANENT SIGNS. PERMANENT SIGNS SHALL BE LOCATED AS SHOWN.

THE COST OF REVEALS/RUSTICATIONS AND HALF-ROUNDS ARE INCIDENTAL TO THE "SIGN SUPPORT CONCRETE MASONRY" BID ITEM.

FOUNDATION DATA

GEOTECHNICAL REPORTS HAVE BEEN PREPARED FOR THESE STRUCTURES AND ARE AVAILABLE UPON REQUEST FROM WISDOT'S SW REGION OFFICE.

WISCONSIN
WILLIAM A. HOVE
E-33600
MADISON, WI
PROFESSIONAL ENGINEER

3-4-2013

NO.	DATE	REVISION	BY

CORRE
Structural Environmental Municipal Transportation
6510 GRAND TETON PLAZA, SUITE 314 MADISON, WI 53719 (608)828-1011 www.correengineering.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher NK 03/11/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURES S-13-376/384/394/395

USH 12/14/18/151

COUNTY	TOWN/CITY/~~VILLAGE~~
DANE	MADISON

DESIGN SPEC.
AASHTO STD. SPEC. 2002

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
BH	PJM	BSS	BH

LAYOUT & QUANTITIES S-13-376

SHEET 1 OF 15

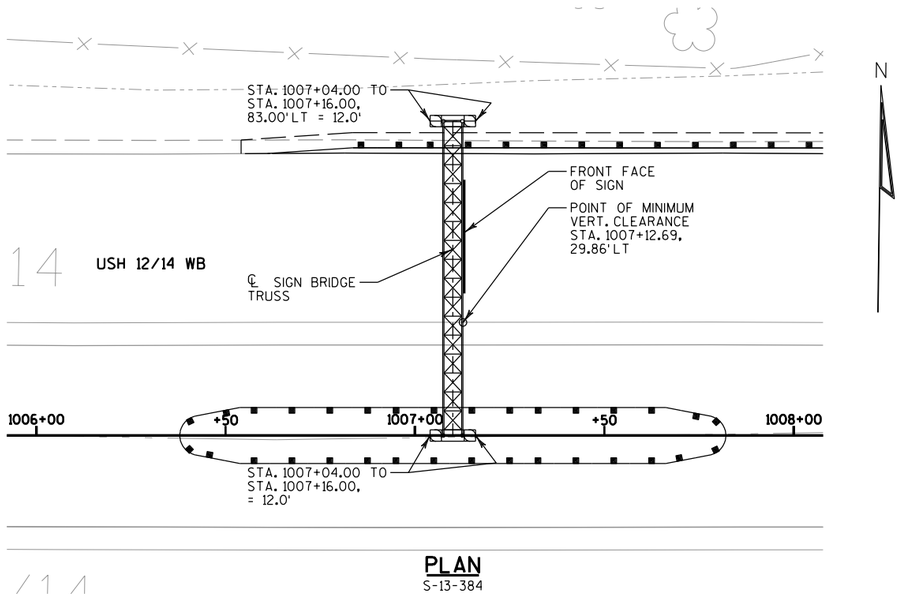
1096

8

8

STATE PROJECT NUMBER

1206-07-77



PLAN
S-13-384

TOTAL ESTIMATED QUANTITIES

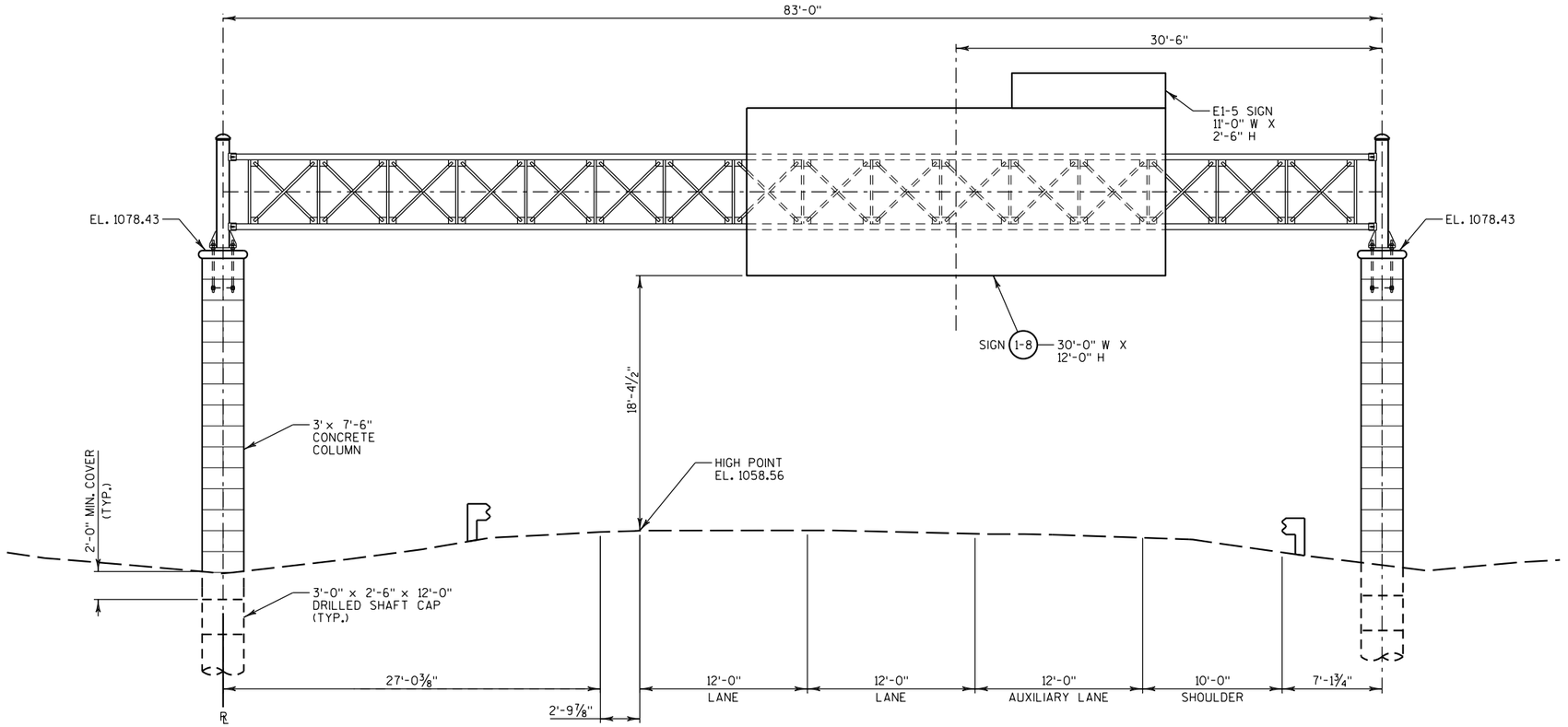
BID ITEM NUMBER	BID ITEM	UNIT	QUANTITY
517.1010.S.13	CONCRETE STAINING S-13-384	SF	1000
636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	65
636.1000	SIGN SUPPORTS STEEL REINFORCEMENT HS	LB	2270
636.1500	SIGN SUPPORTS STEEL COATED REINFORCEMENT HS	LB	10,110
◓ 641.6600.01	SIGN BRIDGE STRUCTURE S-13-384	LS	1

ALL ITEMS ARE CATEGORY 0120

LEGEND

◓ THIS LUMP SUM PAY ITEM INCLUDES HORIZONTAL TRUSS, VERTICAL STEEL COLUMN, AND ANCHOR ASSEMBLIES.

SIGN (XX) SIGN NUMBER. SEE SIGNING PLAN.



ELEVATION
(LOOKING WEST AT FRONT FACE OF SIGN)
S-13-384
USH 12/14 WB
STA. 1007+10

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-384

DRAWN BY MES | PLANS CK'D. MAH

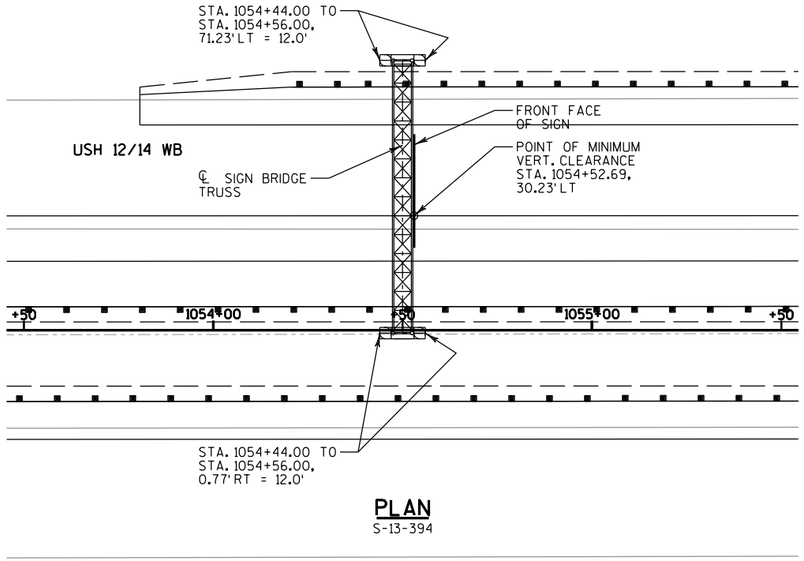
LAYOUT & QUANTITIES S-13-384

SHEET 2 OF 15

1097

STATE PROJECT NUMBER

1206-07-77



PLAN
S-13-394

TOTAL ESTIMATED QUANTITIES

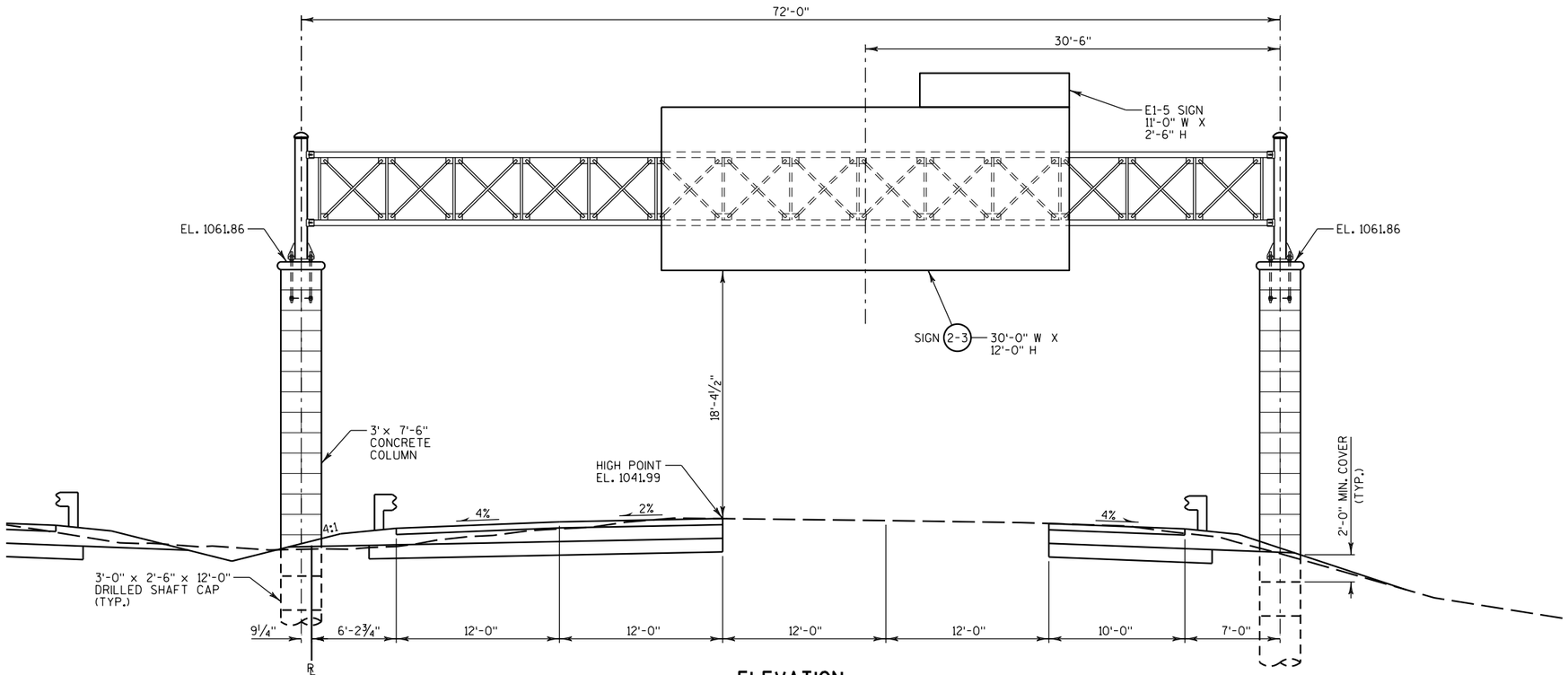
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	517.1010.S.14	CONCRETE STAINING S-13-394	SF	1000
	636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	65
	636.1000	SIGN SUPPORTS STEEL REINFORCEMENT HS	LB	2270
	636.1500	SIGN SUPPORTS STEEL COATED REINFORCEMENT HS	LB	10,050
◓	641.6600.02	SIGN BRIDGE STRUCTURE S-13-394	LS	1

ALL ITEMS ARE CATEGORY 0130

LEGEND

◓ THIS LUMP SUM PAY ITEM INCLUDES HORIZONTAL TRUSS, VERTICAL STEEL COLUMN, AND ANCHOR ASSEMBLIES.

SIGN (XX) SIGN NUMBER. SEE SIGNING PLAN.



ELEVATION
(LOOKING WEST AT FRONT FACE OF SIGN)
S-13-394
USH 12/14 WB
STA. 1054+50

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-394

DRAWN BY MES | PLANS CK'D. MAH

LAYOUT & QUANTITIES S-13-394

SHEET 3 OF 15

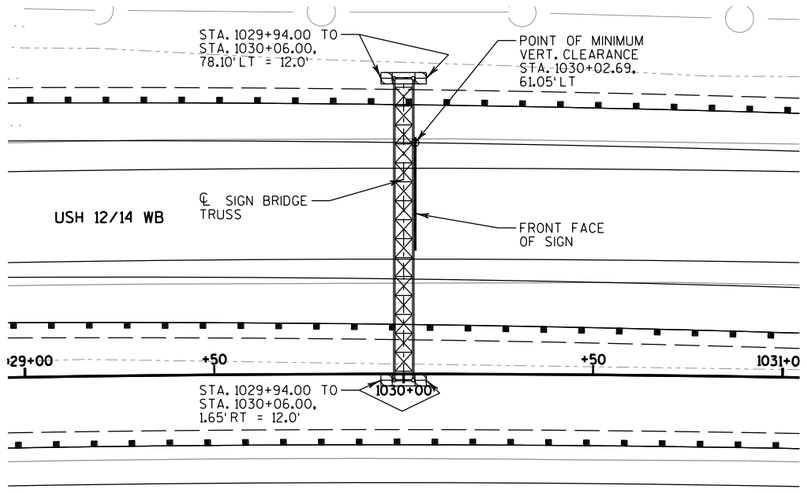
1098

8

8

STATE PROJECT NUMBER

1206-07-77



PLAN
S-13-395

TOTAL ESTIMATED QUANTITIES

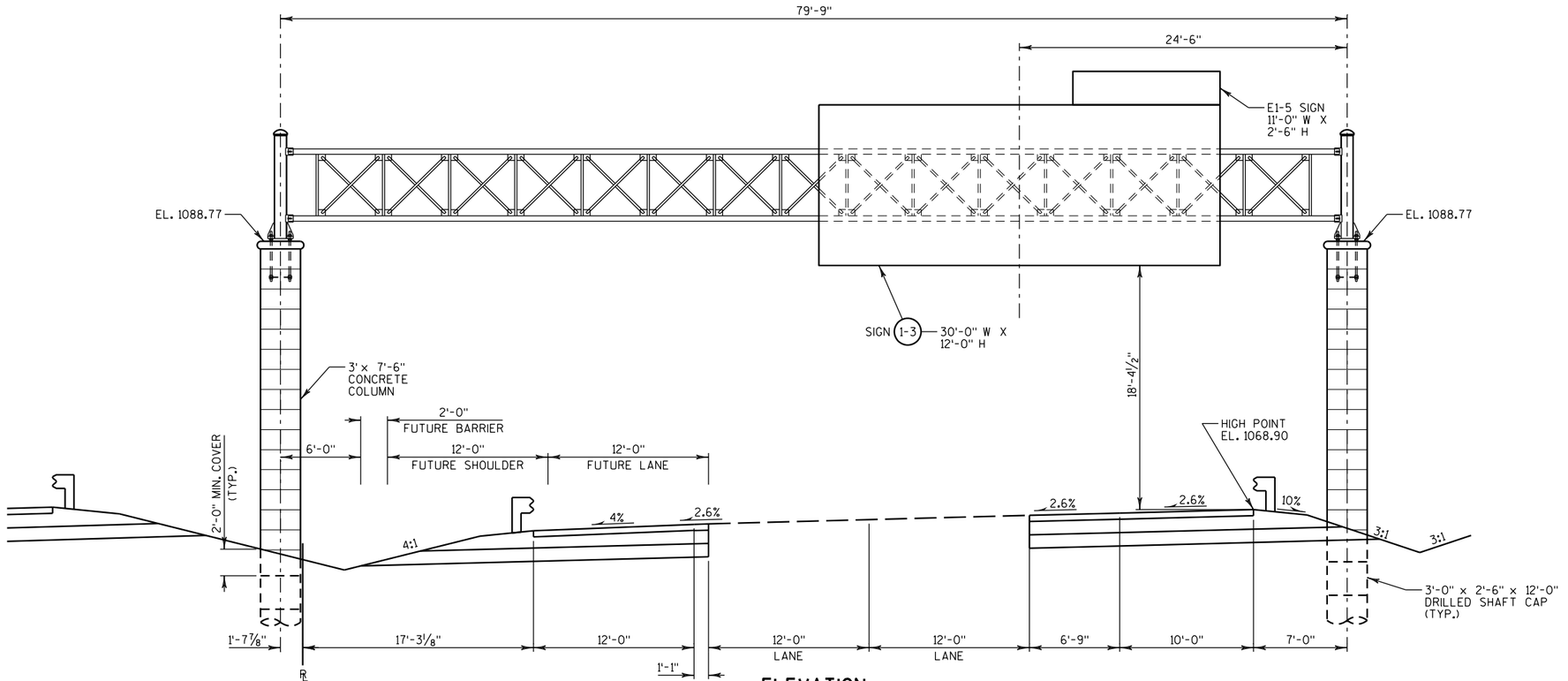
BID ITEM NUMBER	BID ITEM	UNIT	QUANTITY
517.1010.S.15	CONCRETE STAINING S-13-395	SF	1020
636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	72
636.1000	SIGN SUPPORTS STEEL REINFORCEMENT HS	LB	3010
636.1500	SIGN SUPPORTS STEEL COATED REINFORCEMENT HS	LB	10,150
◓ 641.6600.03	SIGN BRIDGE STRUCTURE S-13-395	LS	1

ALL ITEMS ARE CATEGORY 0140

LEGEND

◓ THIS LUMP SUM PAY ITEM INCLUDES HORIZONTAL TRUSS, VERTICAL STEEL COLUMN, AND ANCHOR ASSEMBLIES.

SIGN (XX) SIGN NUMBER. SEE SIGNING PLAN.



ELEVATION
(LOOKING WEST AT FRONT FACE OF SIGN)
S-13-395
USH 12/14 WB
STA. 1030+00

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-395

DRAWN BY MES | PLANS CK'D. MAH

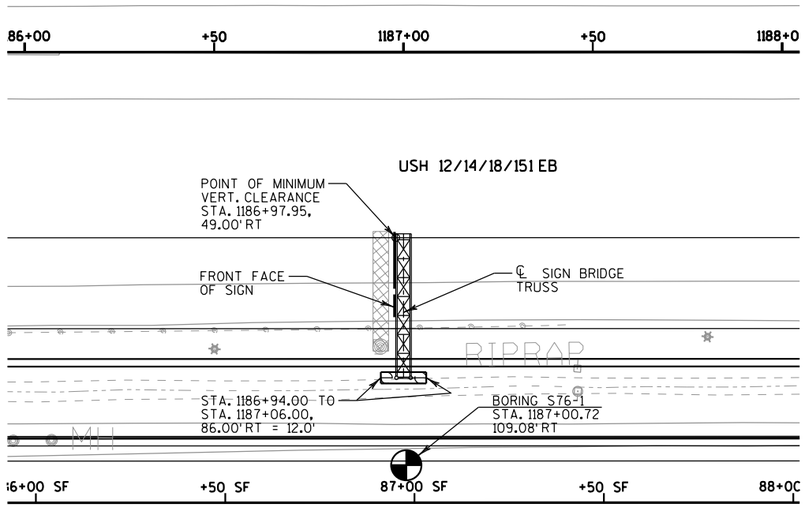
LAYOUT & QUANTITIES S-13-395

SHEET 4 OF 15

1099

FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\S-13-376-384-394-395\080104-genplan.dgn PLOT DATE : 3/4/2013

PLOT SCALE : 40.00000 ' / in.

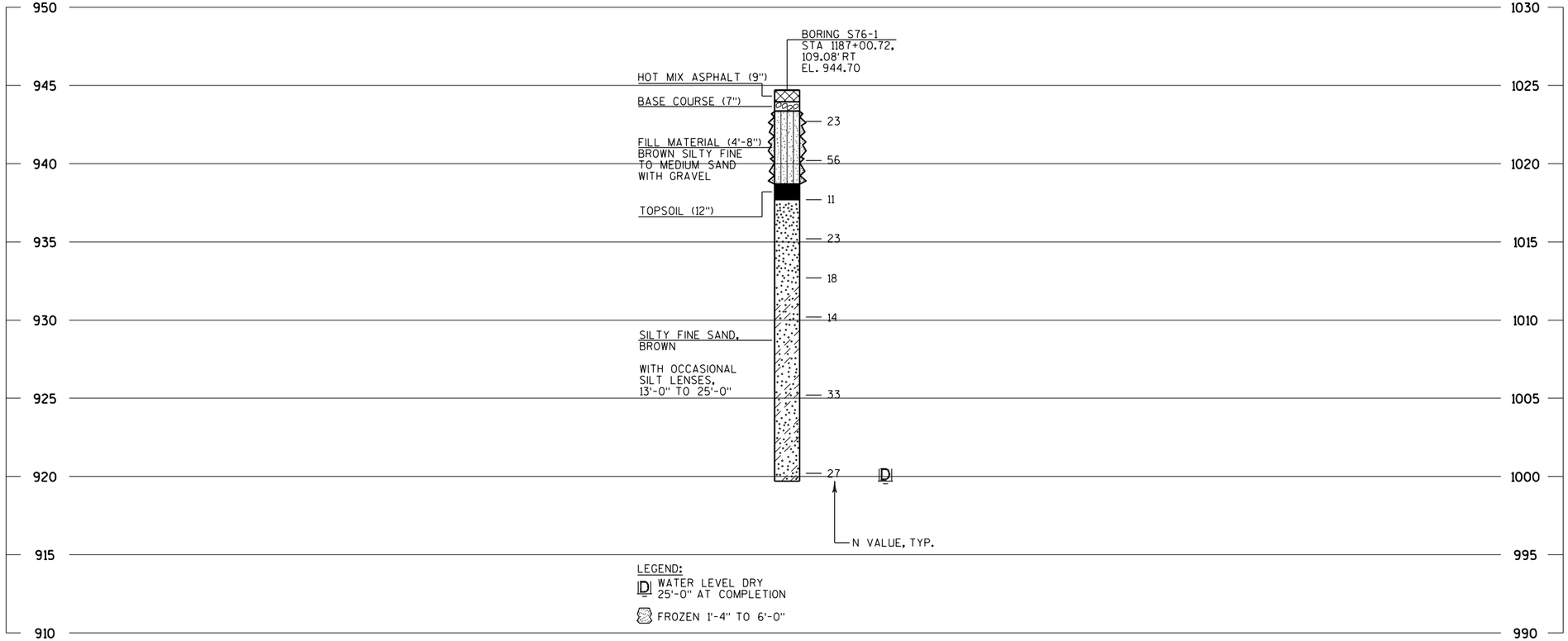


N

PLAN
S-13-376

SOIL BORINGS PERFORMED BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713
(608)-274-7600

BORING S76-1
PERFORMED ON 2/10/12



8

STATE PROJECT NUMBER

1206-07-77

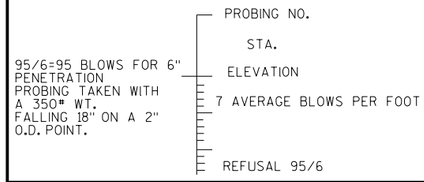
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

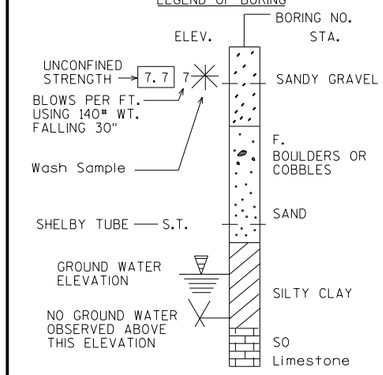
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-376

DRAWN BY BSS | PLANS CK'D. BH

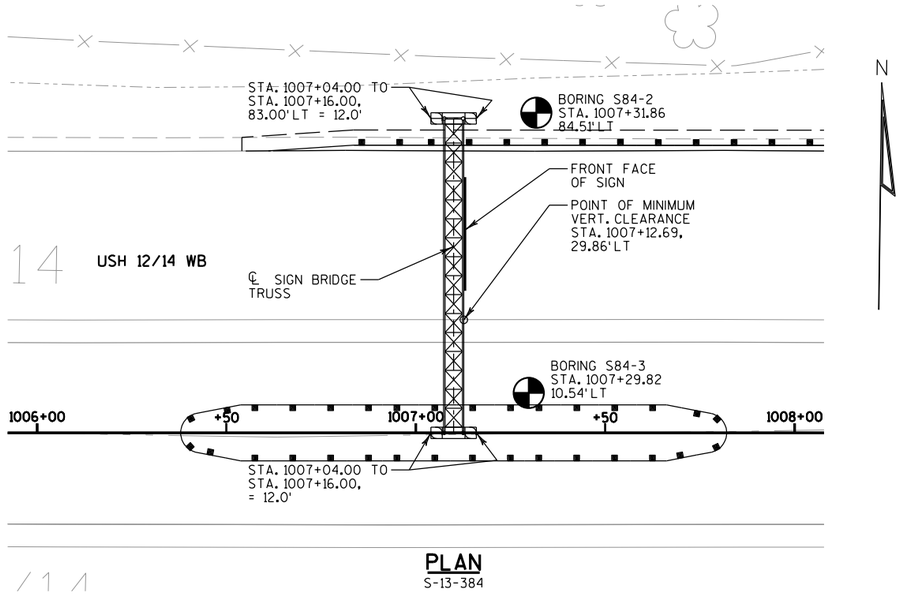
SUBSURFACE EXPLORATION S-13-376

SHEET 5 OF 15

1100

FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\S-13-376-384-394-395\080105-subsexplr.dgn PLOT DATE : 3/4/2013

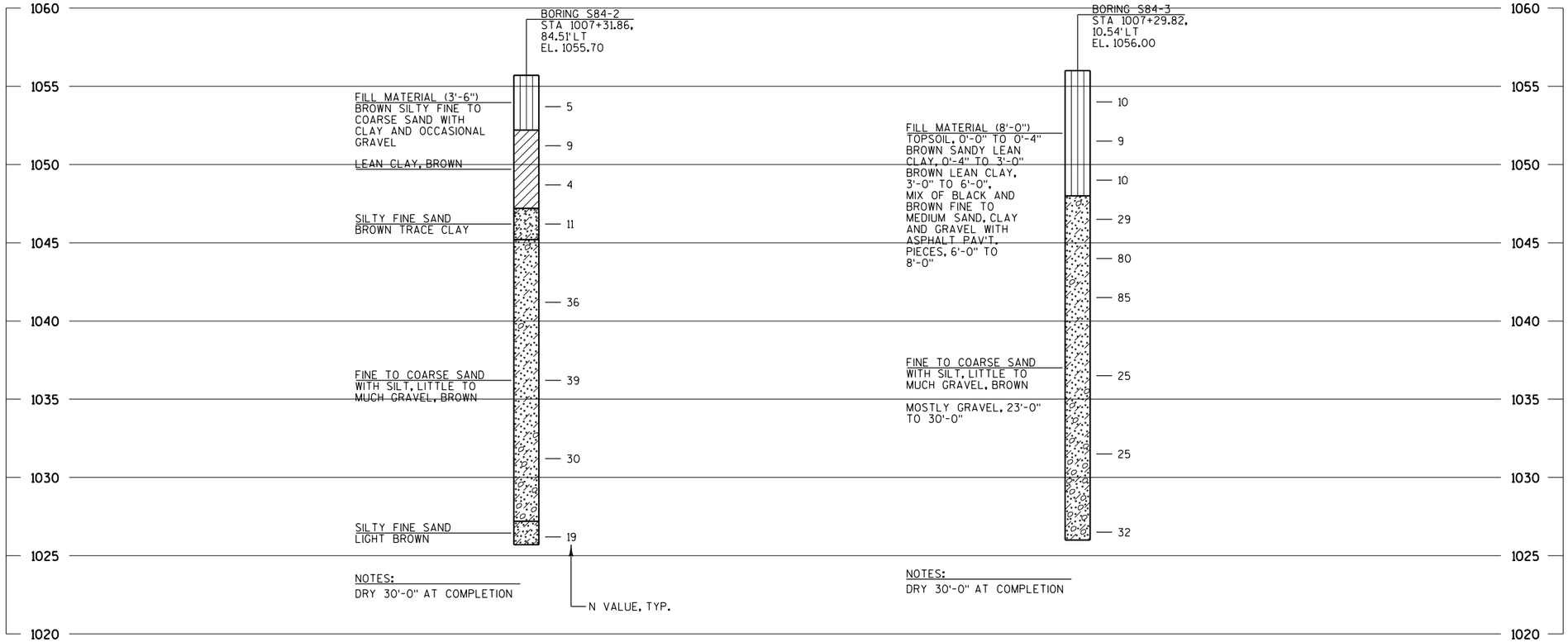
PLOT SCALE : 40.00000 ' / in.



PLAN
S-13-384

SOIL BORINGS PERFORMED BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713
(608)-274-7600

BORING S84-2
PERFORMED ON 10/24/12
BORING S84-3
PERFORMED ON 10/25/12



8

8

STATE PROJECT NUMBER

1206-07-77

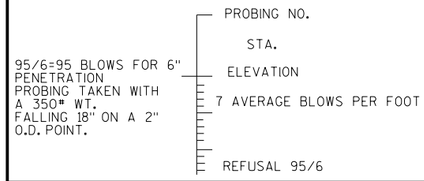
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

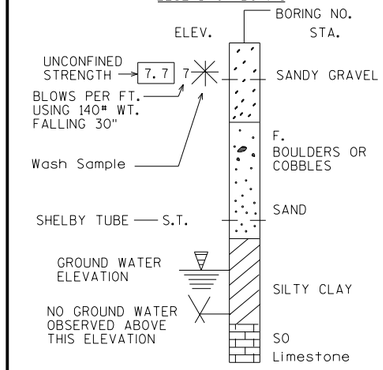
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-384

DRAWN BY BSS | PLANS CK'D. BH

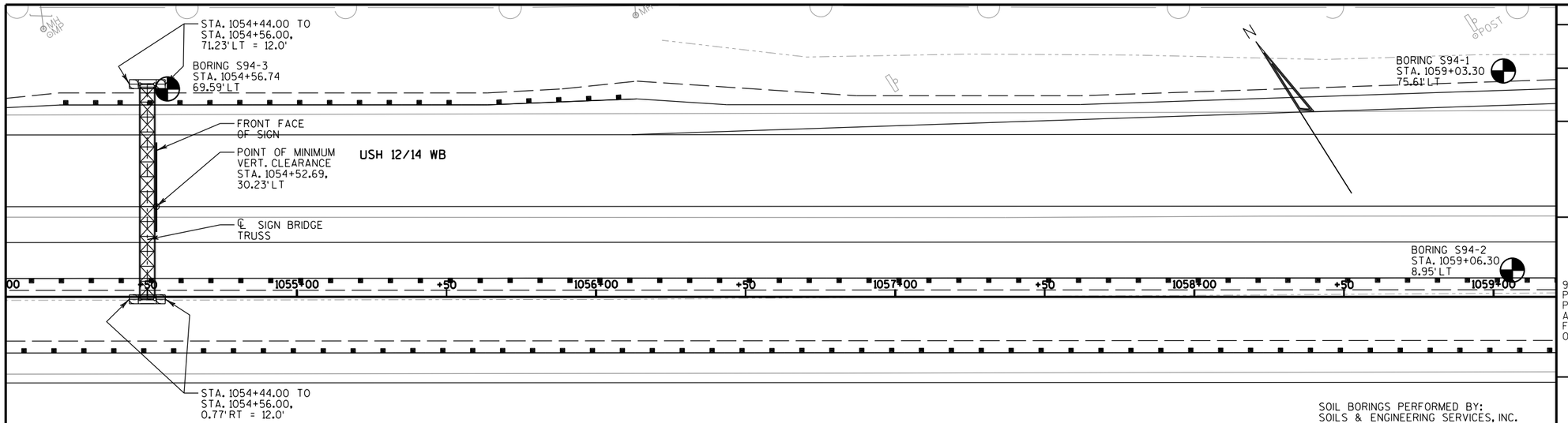
SUBSURFACE EXPLORATION S-13-384

SHEET 6 OF 15

1101

FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\S-13-376-384-394-395\080106-subsexplr.dgn PLOT DATE : 3/4/2013

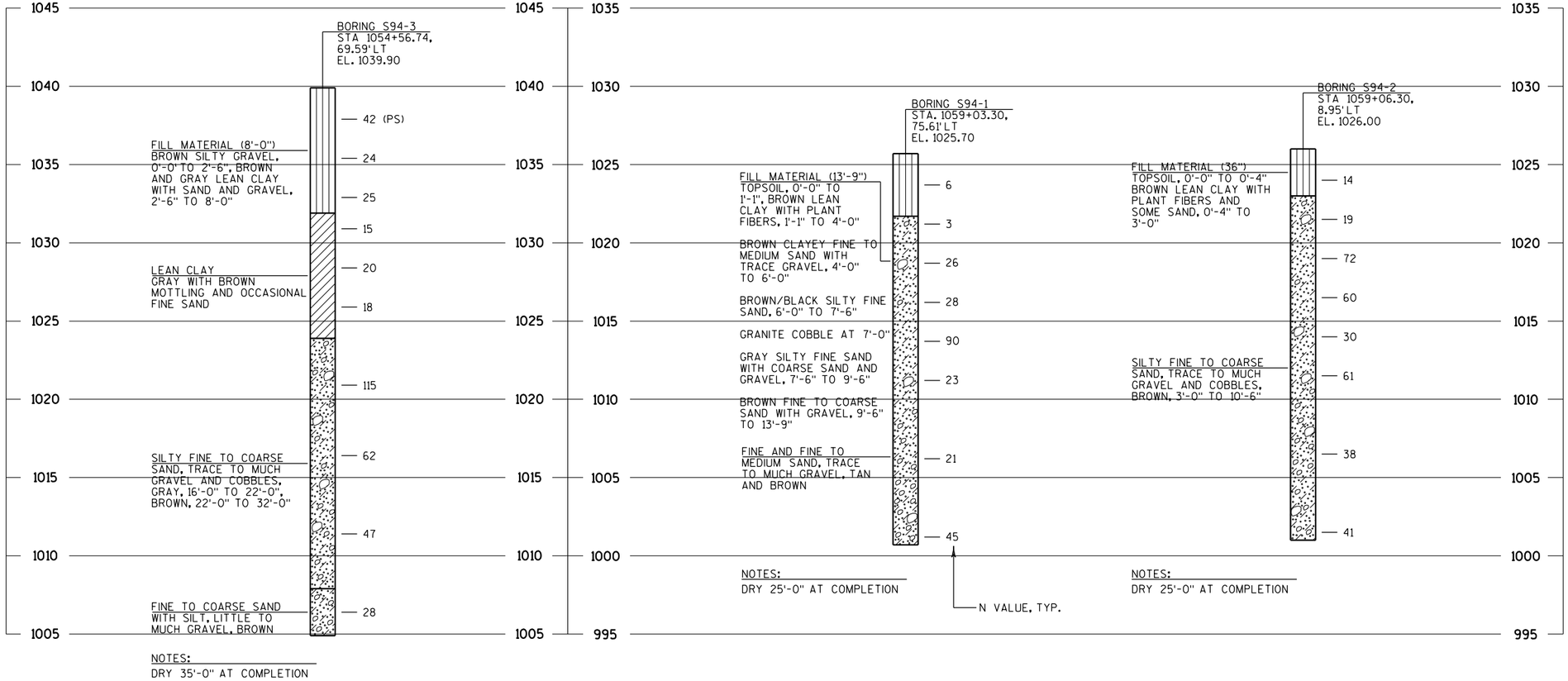
PLOT SCALE : 40.00000 ' / in.



PLAN
S-13-394

SOIL BORINGS PERFORMED BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713
(608)-274-7600

BORING S94-1
PERFORMED ON 05/10/12
BORING S94-2
PERFORMED ON 10/25/12
BORING S94-3
PERFORMED ON 12/18/12



STATE PROJECT NUMBER

1206-07-77

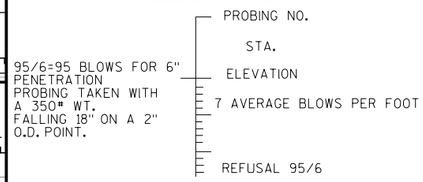
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

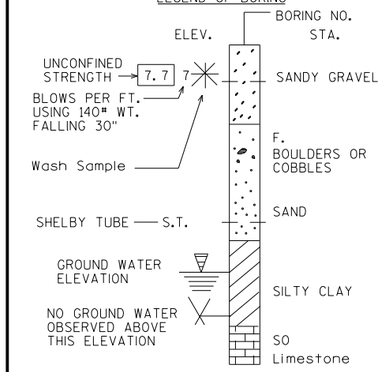
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-394

DRAWN BY BSS | PLANS CK'D. BH

SUBSURFACE EXPLORATION S-13-394

SHEET 7 OF 15

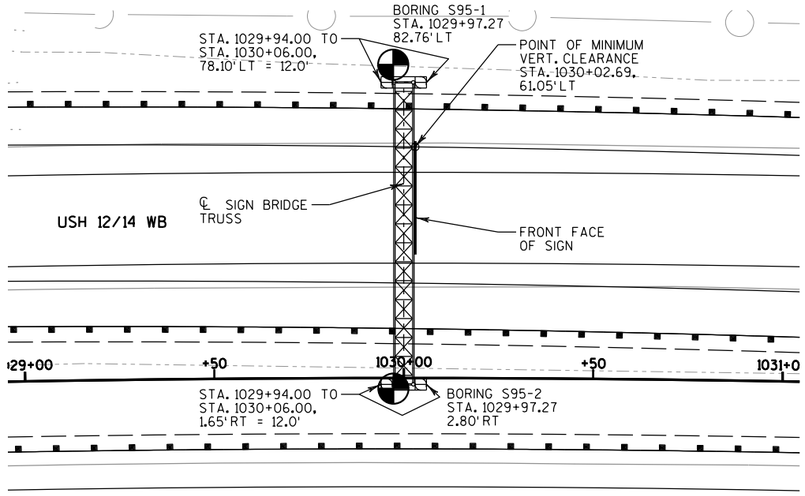
1102

8

8

FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\S-13-376-384-394-395\080107-subsexplr.dgn DATE : 3/4/2013

PLOT SCALE : 40.00000 ' / in.

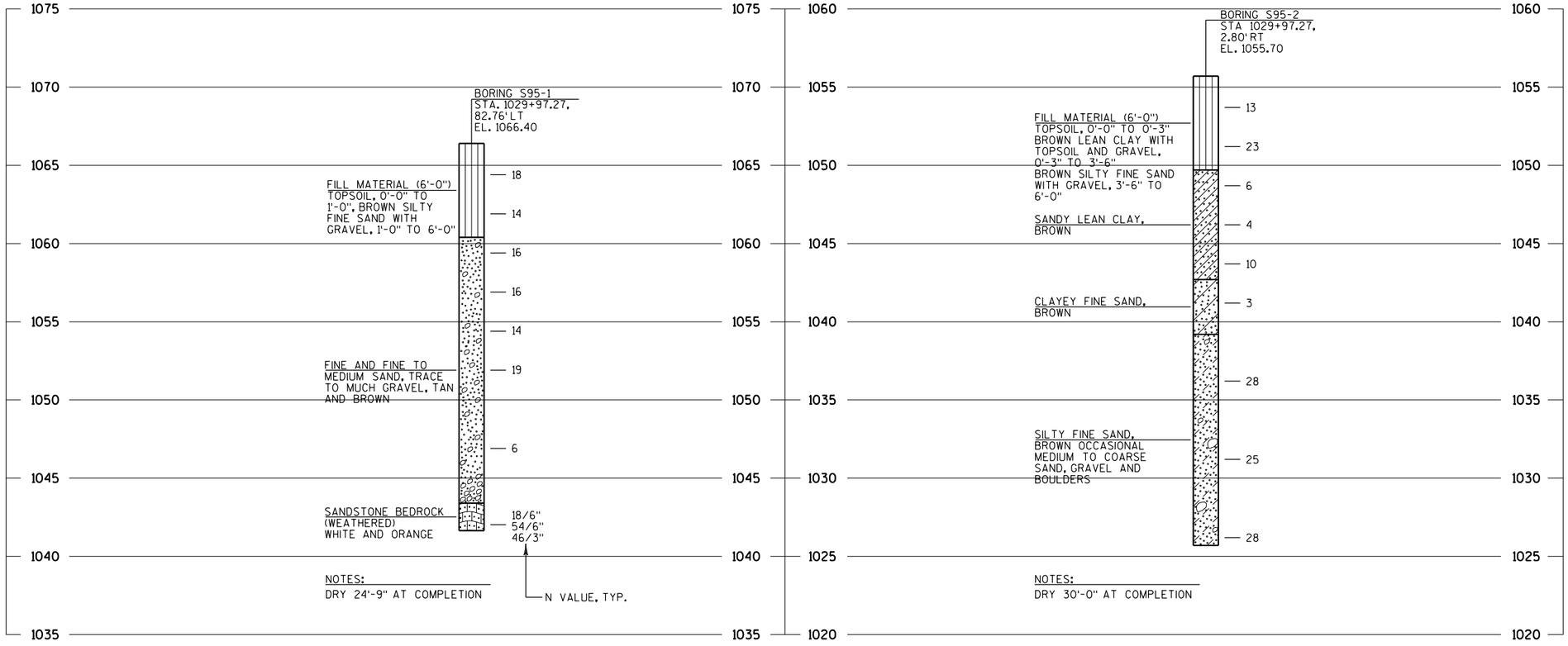




PLAN
S-13-395

SOIL BORINGS PERFORMED BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713
(608)-274-7600

BORING S95-1
PERFORMED ON 05/10/12
BORING S95-2
PERFORMED ON 10/25/12



STATE PROJECT NUMBER

1206-07-77

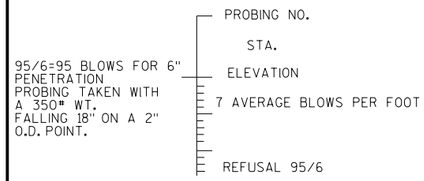
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

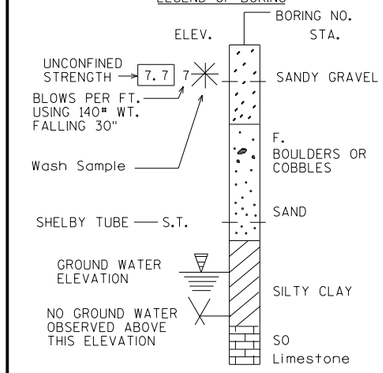
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-395

DRAWN BY BSS | PLANS CK'D. BH

SUBSURFACE EXPLORATION S-13-395

SHEET 8 OF 15

1103

8

8

FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\S-13-376-384-394-395\080108-subsexpl.dgn PLOT DATE : 3/4/2013

PLOT SCALE : 40.00000 ' / in.

STATE PROJECT NUMBER

1206-07-77

NOTES

THE INFORMATION ON THIS SHEET APPLIES TO STRUCTURE S-13-376.

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR FOR DRILLED SHAFT AND 2½" CLEAR FOR CONCRETE COLUMN AND CAP. WHERE APPLICABLE, CLEAR DISTANCE IS MEASURED FROM INSIDE OF RUSTICATION OR REVEAL.

SEE SHEET 11 FOR ANCHOR BOLT DETAILS.

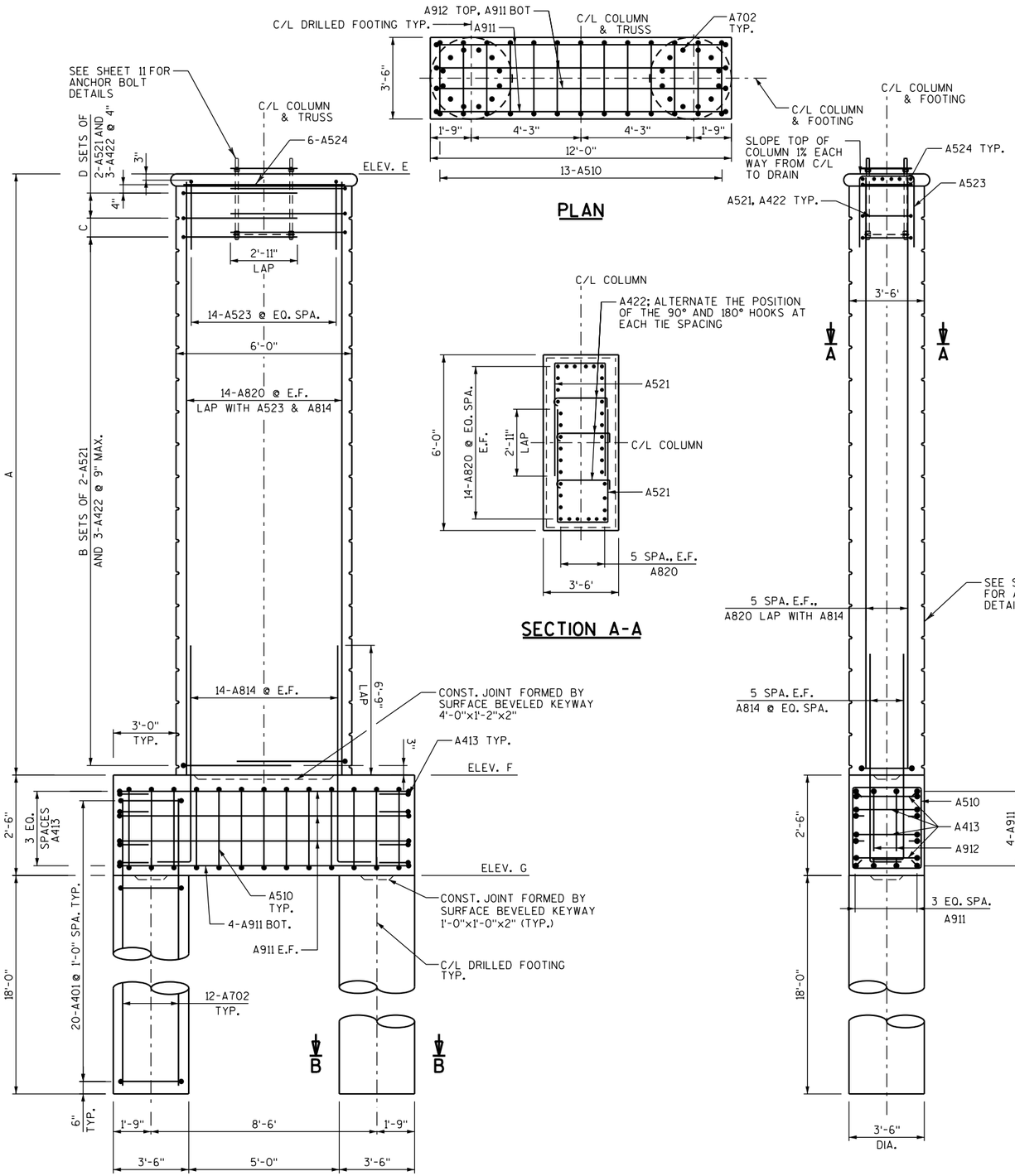
BILL OF BARS S-13-376

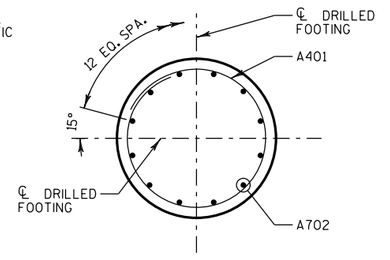
BAR MARK	COAT	NO. REQ'D S-13-376	LENGTH	BENT	LOCATION
A401		40	11'-6"	X	DRILLED SHAFT - HOOPS
A702		24	20'-3"	X	DRILLED SHAFT - VERTICAL
A510	X	13	10'-9"	X	FOOTING- VERT. STIRRUPS
A911	X	10	14'-1"	X	FOOTING-HORIZ.
A912	X	2	14'-3"	X	FOOTING-HORIZ. @ TOP
A413	X	8	4'-9"	X	FOOTING-HORIZ. @ ENDS
A814	X	36	10'-2"	X	FOOTING-VERT., COLUMN DOWELS
A820	X	36	23'-10"		COLUMN-VERTICAL
A521	X	70	10'-11"	X	COLUMN-HORIZ. STIRRUPS
A422	X	105	3'-11"	X	COLUMN-TIES
A523	X	14	9'-1"	X	COLUMN-VERT. @ TOP
A524	X	6	5'-7"		COLUMN-HORIZ. @ TOP

BAR DIMENSIONS ARE OUT TO OUT OF BAR

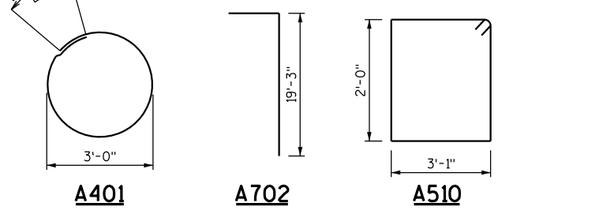
TABLE OF VARIABLES

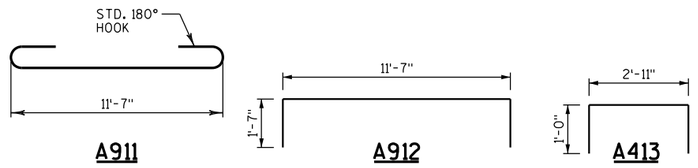
SIGN STRUCTURE	A	B	C	D	EL. E	EL. F	EL. G
S-13-376	24'-0"	29	6"	6	966.74	942.74	940.24

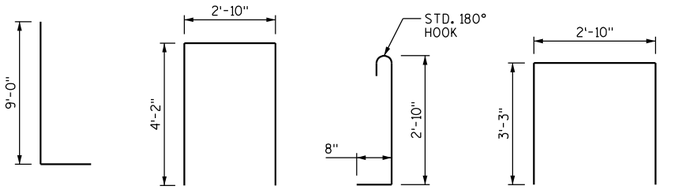




SECTION B-B







BENDING DIAGRAM

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-376

DRAWN BY BSS | PLANS CK'D. BH

COLUMN & FOOTING DETAILS - 1

SHEET 9 OF 15

1104

8

8

FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\S-13-376-384-394-395\080109-col_footing1.dgn PLOT DATE : 3/4/2013

PLOT SCALE : 5.0000 ' / in.

STATE PROJECT NUMBER

1206-07-77

TABLE OF VARIABLES

SIGN STRUCTURE	A	B	C	D	E	EL. E	EL. F	EL. G
S-13-384 OUTSIDE	24'-6"	33	3"	6	16'	1078.43	1053.93	1051.43
S-13-384 MEDIAN	25'-6"	35	6"	6	16'	1078.43	1052.93	1050.43
S-13-394 OUTSIDE	25'-0"	33	9"	6	16'	1061.86	1036.86	1034.36
S-13-394 MEDIAN	25'-0"	33	9"	6	16'	1061.86	1036.86	1034.36
S-13-395 OUTSIDE	24'-0"	32	6"	6	22'	1088.77	1064.77	1062.27
S-13-395 MEDIAN	26'-6"	36	9"	6	22'	1088.77	1062.27	1059.77

NOTES

THE INFORMATION ON THIS SHEET APPLIES TO STRUCTURES S-13-384, 394 & 395.

DRAWINGS SHALL NOT BE SCALED.

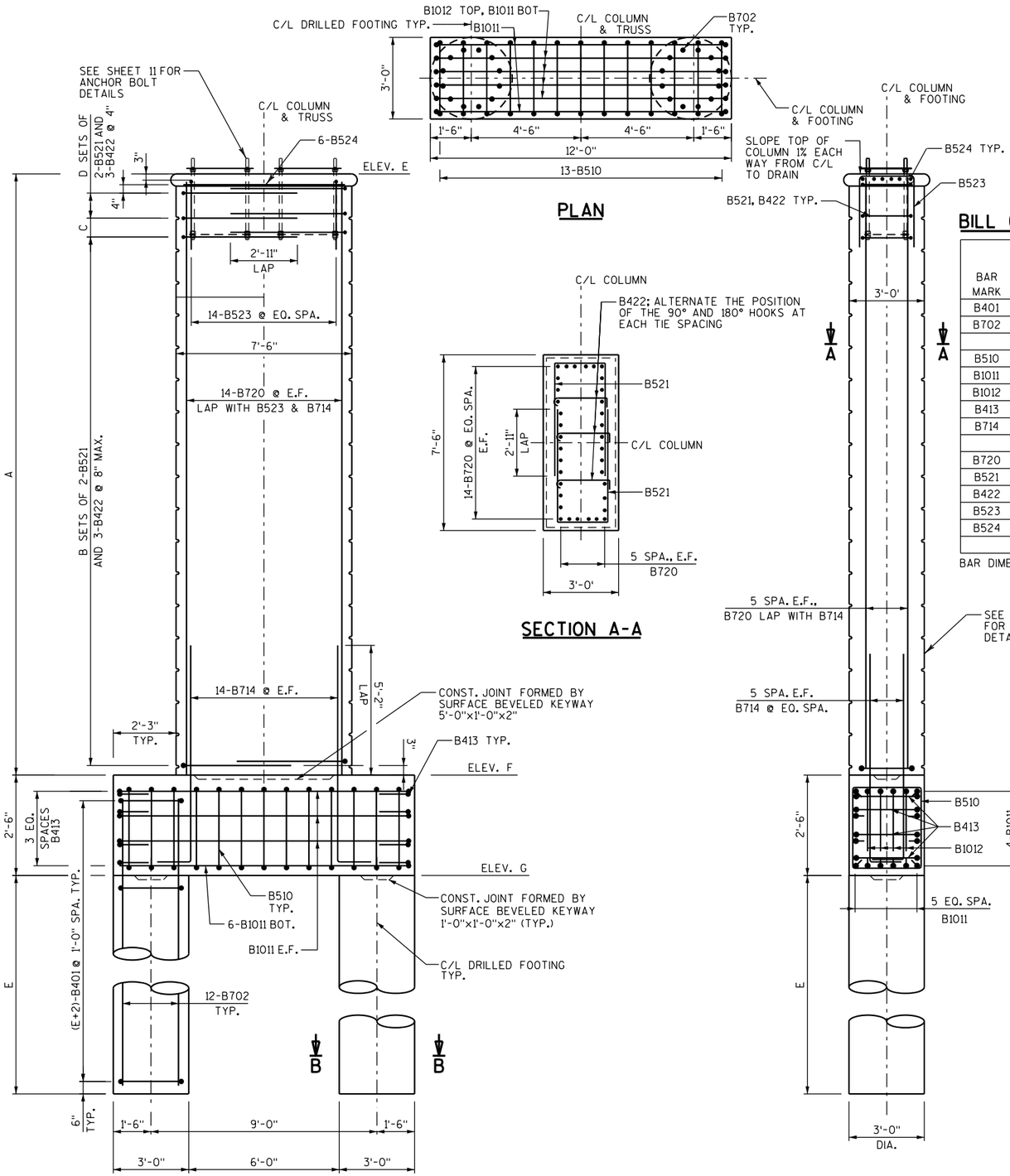
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR FOR DRILLED SHAFT AND 2½" CLEAR FOR CONCRETE COLUMN AND CAP. WHERE APPLICABLE, CLEAR DISTANCE IS MEASURED FROM INSIDE OF RUSTICATION OR REVEAL.

SEE SHEET 11 FOR ANCHOR BOLT DETAILS.

BILL OF BARS S-13-384, S-13-394, & S-13-395

BAR MARK	COAT	NO. REQ'D. S-13-384 OUTSIDE	NO. REQ'D. S-13-384 MEDIAN	NO. REQ'D. S-13-394 OUTSIDE	NO. REQ'D. S-13-394 MEDIAN	NO. REQ'D. S-13-395 OUTSIDE	NO. REQ'D. S-13-395 MEDIAN	LENGTH S-13-384 OUTSIDE	LENGTH S-13-384 MEDIAN	LENGTH S-13-394 OUTSIDE	LENGTH S-13-394 MEDIAN	LENGTH S-13-395 OUTSIDE	LENGTH S-13-395 MEDIAN	BENT	BAR SERIES	LOCATION
B401		36	36	36	36	48	48	9'-10"	9'-10"	9'-10"	9'-10"	9'-10"	9'-10"	X		DRILLED SHAFT - HOOPS
B702		24	24	24	24	24	24	18'-3"	18'-3"	18'-3"	18'-3"	24'-3"	24'-3"	X		DRILLED SHAFT - VERTICAL
B510	X	13	13	13	13	13	13	9'-9"	9'-9"	9'-9"	9'-9"	9'-9"	9'-9"	X		FOOTING - VERTICAL STIRRUPS
B1011	X	12	12	12	12	12	12	14'-5"	14'-5"	14'-5"	14'-5"	14'-5"	14'-5"	X		FOOTING - HORIZONTAL
B1012	X	4	4	4	4	4	4	14'-7"	14'-7"	14'-7"	14'-7"	14'-7"	14'-7"	X		FOOTING - HORIZONTAL @ TOP
B413	X	8	8	8	8	8	8	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	X		FOOTING - HORIZONTAL @ ENDS
B714	X	36	36	36	36	36	36	8'-6"	8'-6"	8'-6"	8'-6"	8'-6"	8'-6"	X		FOOTING - VERTICAL, COLUMN DOWELS
B720	X	36	36	36	36	36	36	24'-4"	25'-4"	24'-10"	24'-10"	23'-10"	26'-4"			COLUMN - VERTICAL
B521	X	78	82	78	78	76	84	12'-1"	12'-1"	12'-1"	12'-1"	12'-1"	12'-1"	X		COLUMN - HORIZONTAL STIRRUPS
B422	X	117	123	117	117	114	126	3'-5"	3'-5"	3'-5"	3'-5"	3'-5"	3'-5"	X		COLUMN - HORIZONTAL TIES
B523	X	14	14	14	14	14	14	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	8'-7"	X		COLUMN - VERTICAL @ TOP
B524	X	6	6	6	6	6	6	7'-1"	7'-1"	7'-1"	7'-1"	7'-1"	7'-1"			COLUMN - HORIZONTAL @ TOP

BAR DIMENSIONS ARE OUT TO OUT OF BAR



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE VARIOUS

DRAWN BY BSS | PLANS CK'D. BH

COLUMN & FOOTING DETAILS - 2

SHEET 10 OF 15

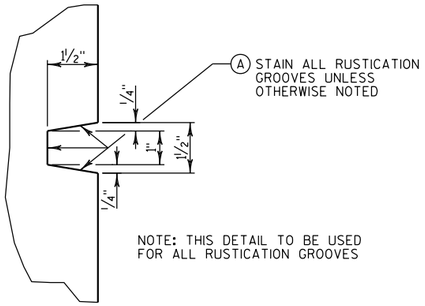
1105

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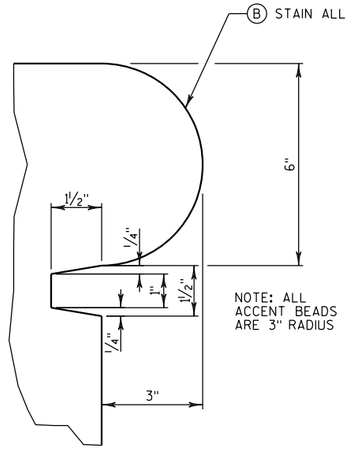
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FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\S-13-376-384-394-395\080110-col_footing2.dgn PLOT DATE : 3/4/2013

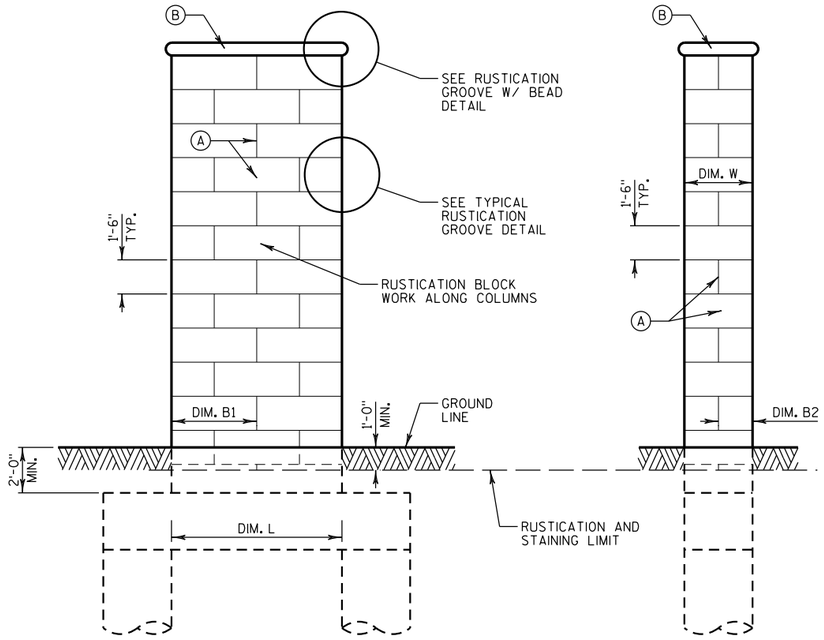
PLOT SCALE : 5.0000 ' / in.



TYPICAL RUSTICATION GROOVE DETAIL



RUSTICATION GROOVE W/ BEAD DETAIL



FRONT FACE ELEVATION

SIDE ELEVATION

STRUCTURE	DIM. L	DIM. W	DIM. B1	DIM. B2
S-13-376	6'-0"	3'-6"	3'-0"	1'-9"
S-13-384	7'-6"	3'-0"	3'-9"	1'-6"
S-13-394	7'-6"	3'-0"	3'-9"	1'-6"
S-13-395	7'-6"	3'-0"	3'-9"	1'-6"

NOTES & LEGEND

DO NOT STAIN TOP OF CONCRETE COLUMN.

ALL SPACING OF RUSTICATION GROOVES AND HALF ROUND BEADS TO START AT TOP OF COLUMN.

DIMENSIONS FOR RUSTICATION ARE TO CENTER OF JOINT.

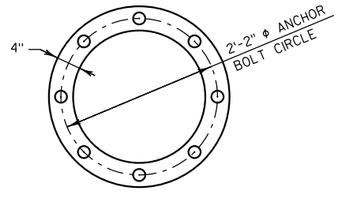
RUSTICATION BLOCK WORK AS SHOWN AND APPROVED BY THE ENGINEER.

ALL RUSTICATION GROOVES SHALL EXTEND A MINIMUM OF 1'-0" BELOW FINISHED GROUND.

(A) CONCRETE STAIN BASE COLOR: PEARL GRAY FEDERAL COLOR 26622

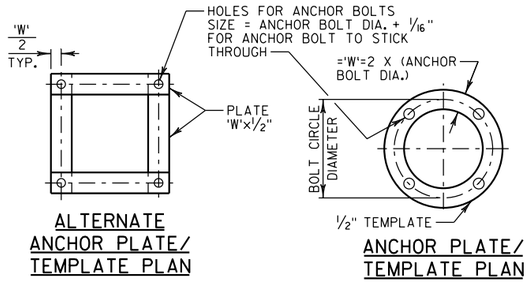
(B) CONCRETE STAIN ACCENT COLOR: MEDIUM GRAY FEDERAL COLOR 36373

SEE SHEETS 13 AND 15 FOR ADDITIONAL ANCHOR BOLT DETAILS.



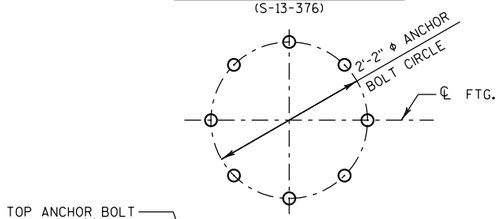
TOP VIEW OF TOP & BOTTOM TEMPLATES

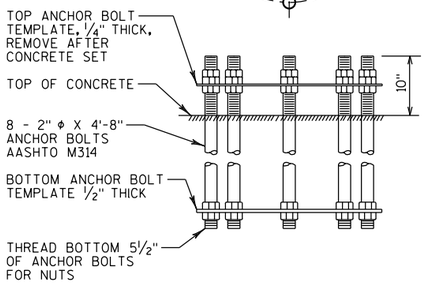
(S-13-376)



ALTERNATE ANCHOR PLATE/ TEMPLATE PLAN

ANCHOR PLATE/ TEMPLATE PLAN

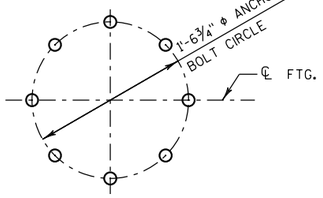




ANCHOR BOLT DETAILS

(S-13-376)

(SEE SHEET 13 FOR ADDITIONAL DETAILS)



ANCHOR BOLT DETAILS

(S-13-384,394,395)

(SEE SHEET 15 FOR ADDITIONAL DETAILS)

STATE PROJECT NUMBER

1206-07-77

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE VARIOUS

DRAWN BY BSS | PLANS CK'D. BH

AESTHETIC & ANCHOR BOLT DETAILS

SHEET 11 OF 15

1106

8

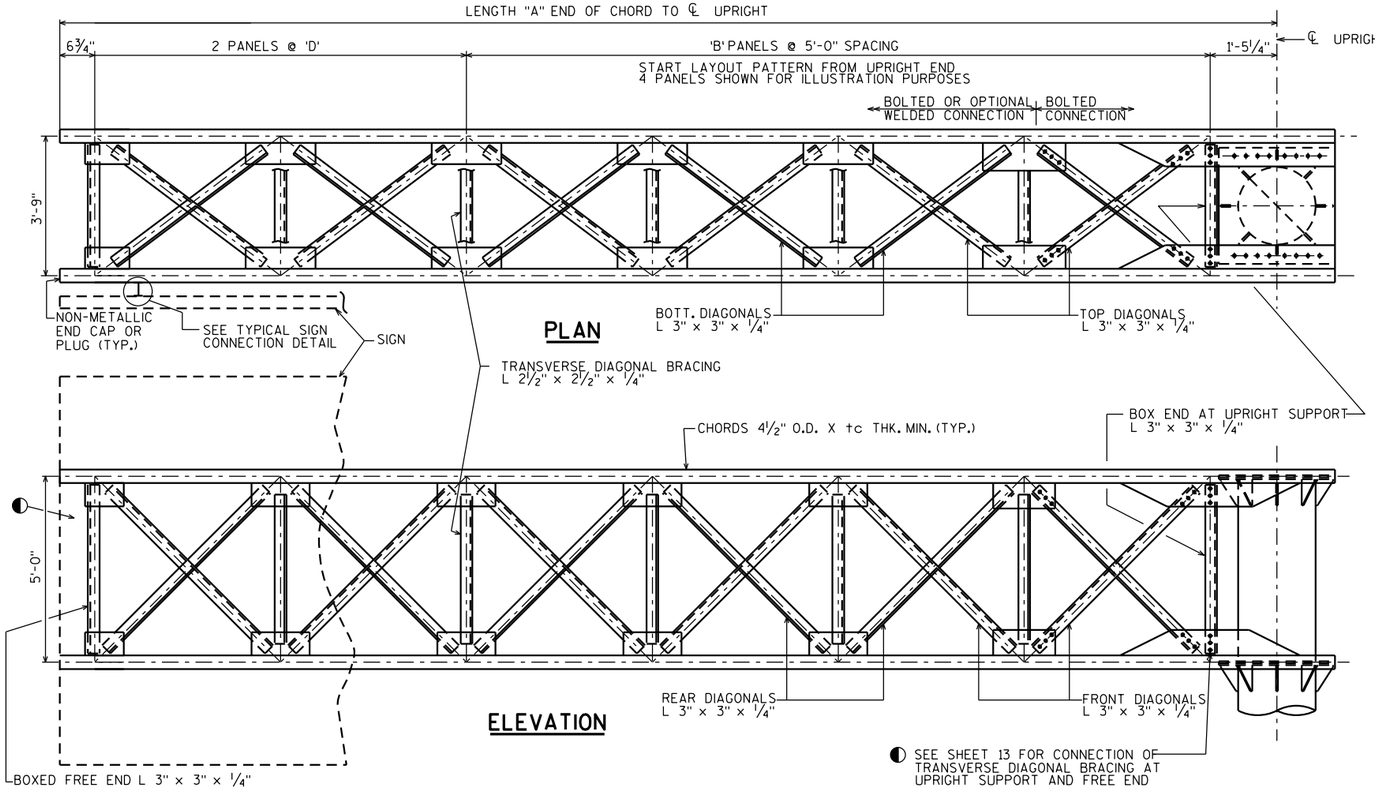
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FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\S-13-376-384-394-395\080111-aesthetics.dgn PLOT DATE : 3/4/2013

PLOT SCALE : 6.66667 ' / in.

STATE PROJECT NUMBER

1206-07-77



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DESIGNED ACCORDING TO A.A.S.H.T.O. "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC "SIGNALS"

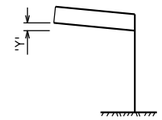
WIND VELOCITY = 90 M.P.H. (3-SECOND GUST SPEED)

PREFABRICATE CAMBER INTO THE HORIZONTAL SUPPORT PROVIDING AN AMOUNT "Y" AT END OF TRUSS SHOWN IN "CAMBER DIAGRAM". DO NOT RAKE VERTICAL UPRIGHT BY ADJUSTMENT OF LEVELING NUTS.

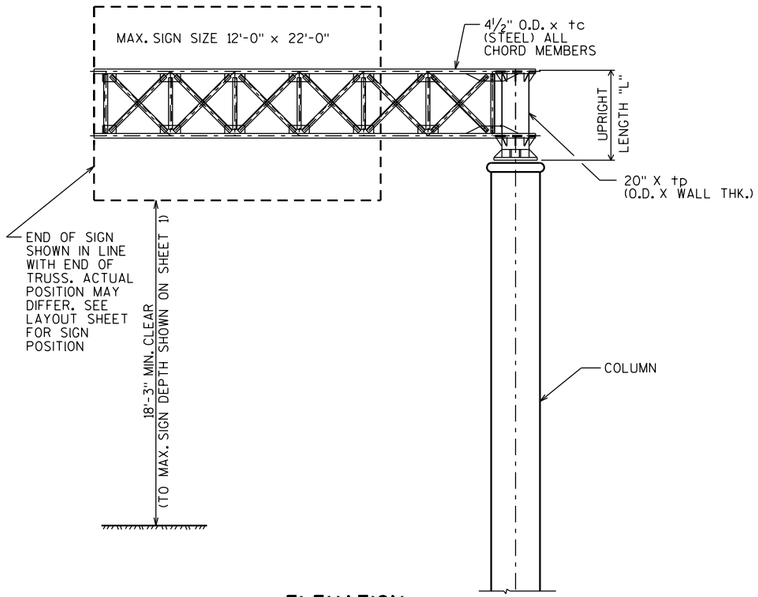
ALLOWABLE DESIGN STRESSES

CHORDS & COLUMN (INCLD. HANDHOLE) — API-5L-X42 — fy=42,000 P.S.I.
STRUCTURAL ANGLES — A.S.T.M. A709 GRADE 36 — fy=36,000 P.S.I.
PLATES & BARS — A.S.T.M. A709 GRADE 36 — fy=36,000 P.S.I.
ANCHOR BOLTS — A.A.S.H.T.O. M314 — fy=55,000 P.S.I.
HIGH STRENGTH BOLTS - A325 — fy=92,000 P.S.I.
STRUCTURAL MEMBERS GALVANIZED A123
HARDWARE GALVANIZED — A153 CLASS C

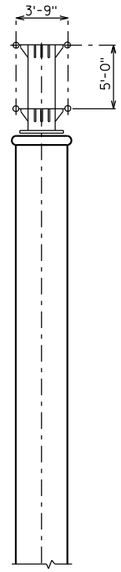
STRUCTURE	"A"	"L"	"B"	"D"	"Y"	"tc"	"tp"
S-13-376	38'-0"	6'-9"	5	5'-6"	1⅜"	0.337	0.812



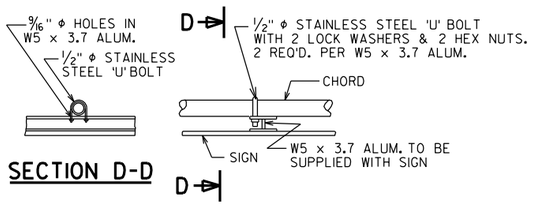
CAMBER DIAGRAM



ELEVATION

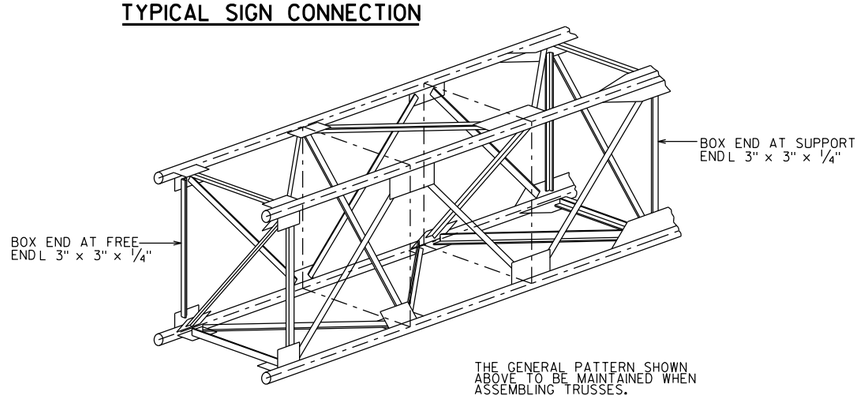


END VIEW



SECTION D-D

TYPICAL SIGN CONNECTION



THE GENERAL PATTERN SHOWN ABOVE TO BE MAINTAINED WHEN ASSEMBLING TRUSSES.

TYPICAL TRUSS SECTION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-376

DRAWN BY BSS | PLANS CK'D. BH

GALVANIZED STEEL CANTILEVER SIGN TRUSS

SHEET 12 OF 15

1107

8

8

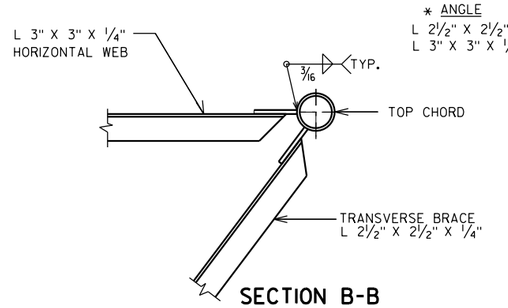
FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\S-13-376-384-394-395\080112-galv_steel_Truss.dgn 3/4/2013 2:07:04 PM

PLOT SCALE : 200.00000 ' / in.

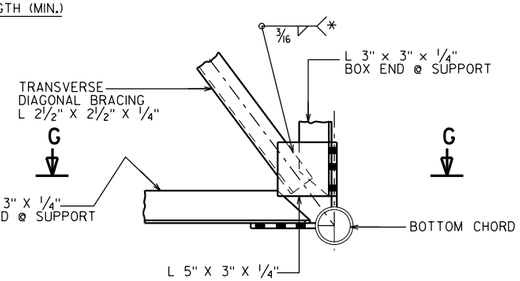
STATE PROJECT NUMBER

1206-07-77

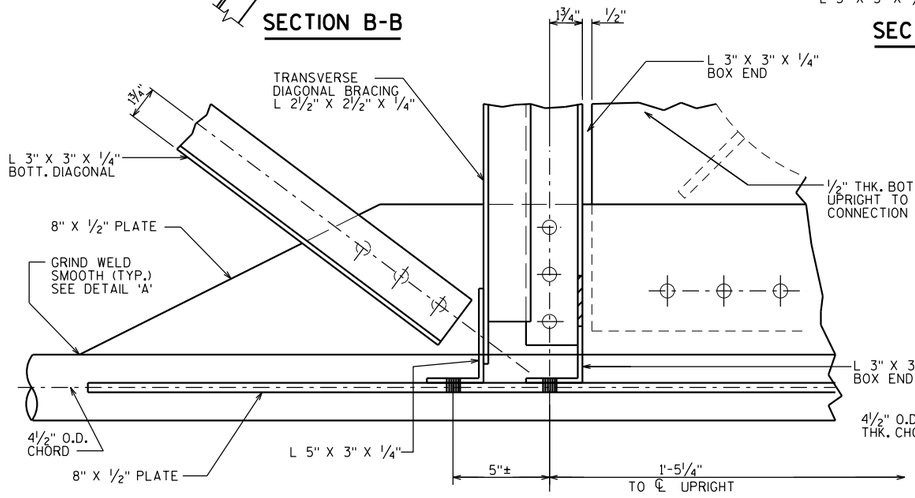
* ANGLE	WELD LENGTH (MIN.)
L 2½" X 2½" X ¼"	7"
L 3" X 3" X ¼"	8"



SECTION B-B

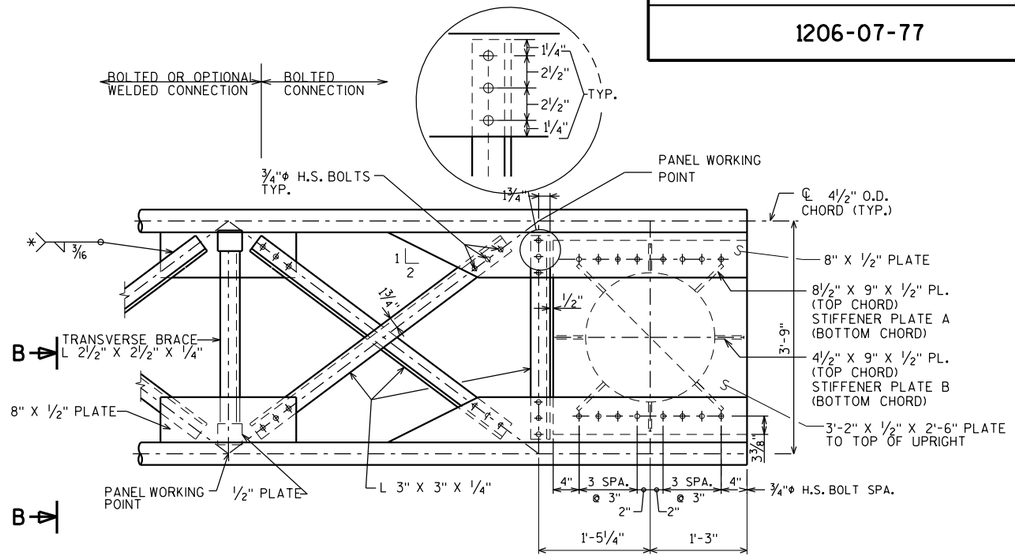


SECTION H-H

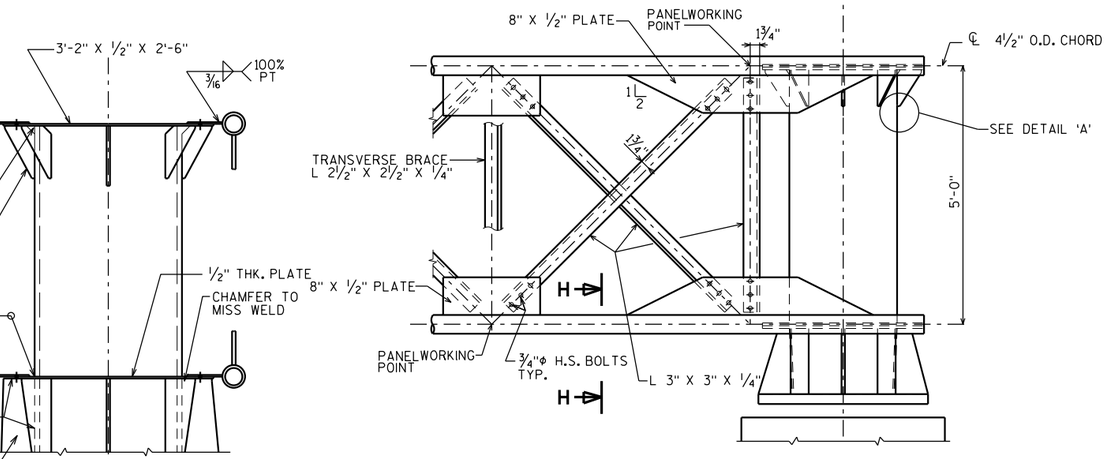


SECTION G-G

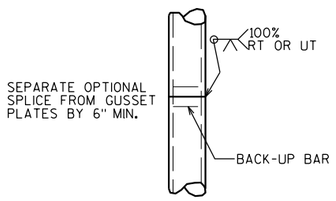
(LOOKING DOWN @ BOTT. HORIZ. PLANE @ FRONT CHORD)



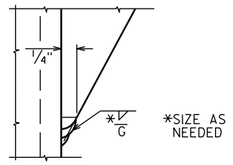
PLAN TRUSS TO UPRIGHT



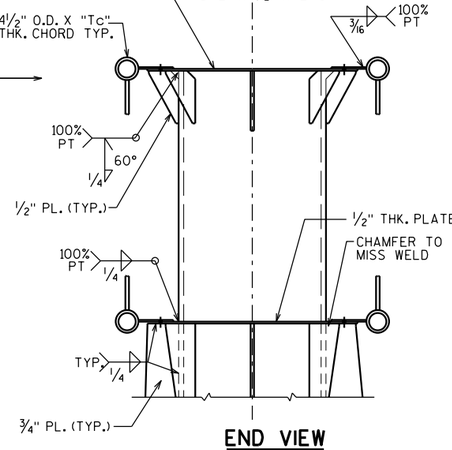
ELEVATION TRUSS TO UPRIGHT



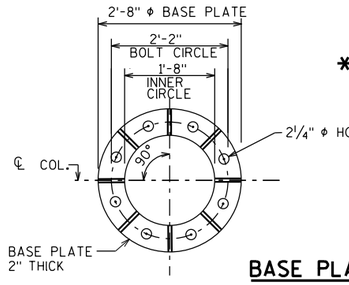
OPTIONAL COLUMN OR CHORD SPLICE DETAIL

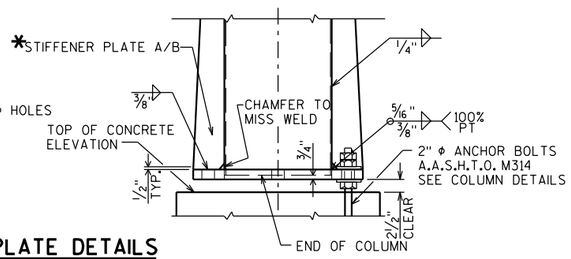


DETAIL 'A'

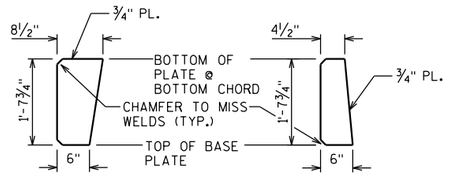


END VIEW TRUSS TO UPRIGHT





BASE PLATE DETAILS



*STIFFENER PLATE A

*STIFFENER PLATE B

LEGEND

* SEE "PLAN TRUSS TO UPRIGHT" FOR LOCATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-376

DRAWN BY BSS | PLANS CK'D. BH

GALVANIZED STEEL CANTILEVER SIGN TRUSS DETAILS

SHEET 13 OF 15

1108

8

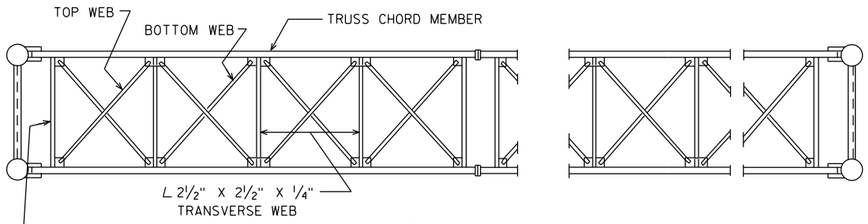
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FILE NAME : \\CORRESERVER\Projects\SW\Dane County\1206-07-06 USH 18 Verona Road\CAD\Plans\S-13-376-384-394-395\080113-galv_truss_details.dgn 3/4/2013

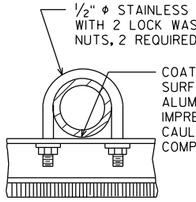
PLOT SCALE : 4.68750 ' / in.

STATE PROJECT NUMBER

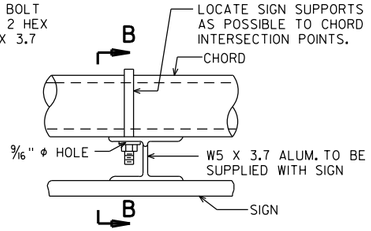
1206-07-77



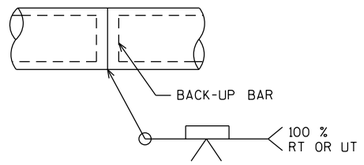
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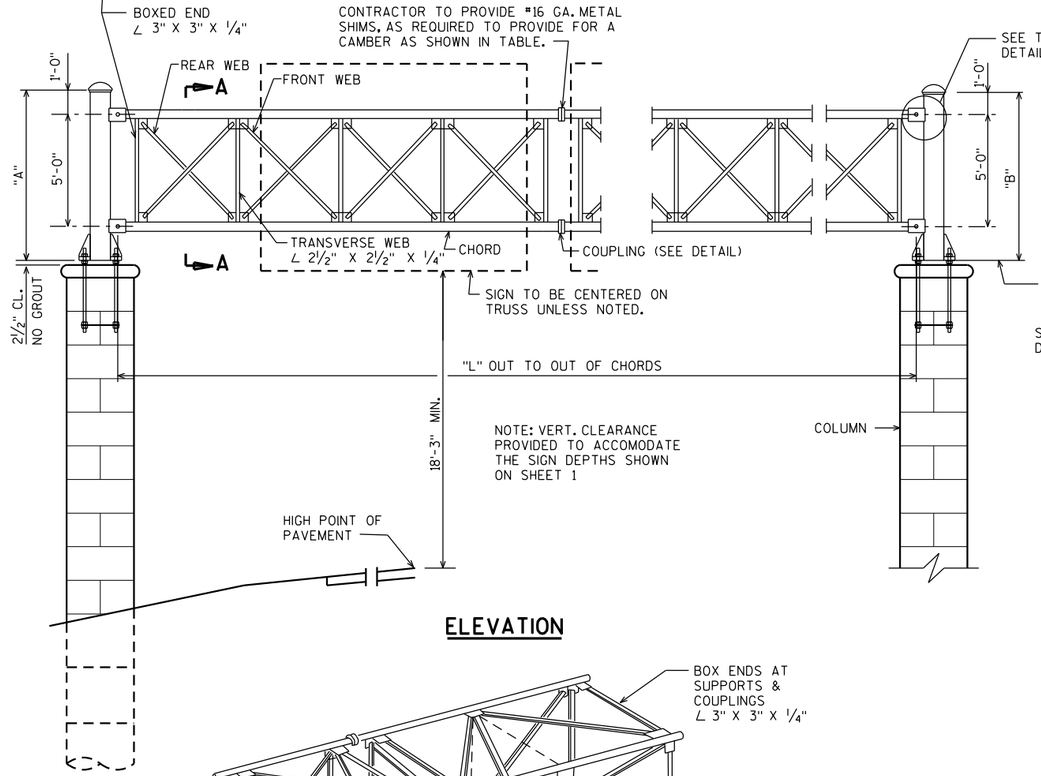
SECTION B



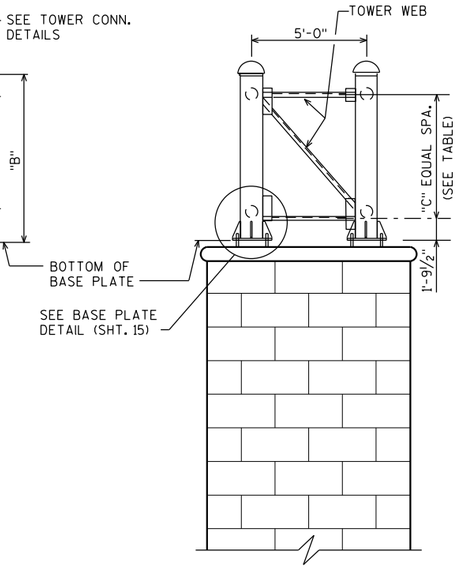
TYPICAL SIGN CONNECTION



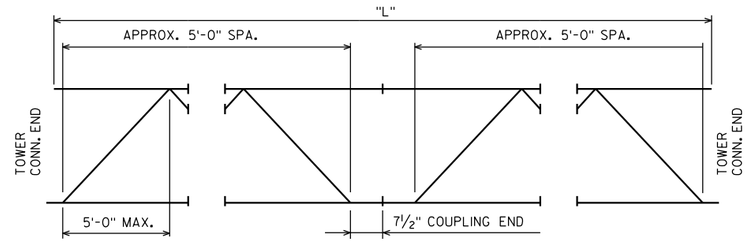
CHORD SPLICE



ELEVATION

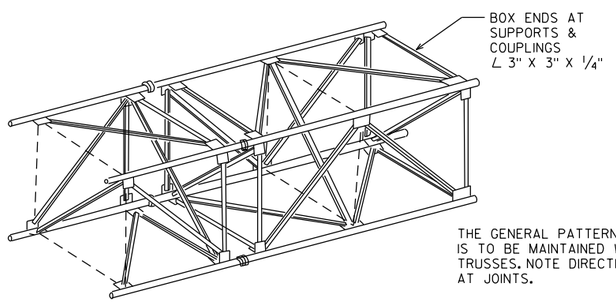


END VIEW



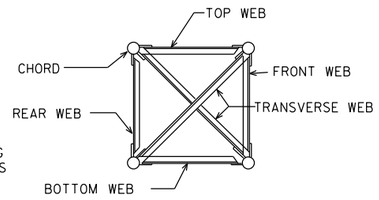
TRUSS ARRANGEMENT

FABRICATOR MAY MAKE TRUSSES ANY LENGTH KEEPING A SECTION A MINIMUM OF 20'-0" & A MULTPLE OF 5'-0". CHORD FIELD SPLICES SHALL BE MADE WITH COUPLINGS. CHORD SHOP SPLICE SHALL BE THE WELDED SPLICE SHOWN ABOVE.



TYPICAL TRUSS SECTION

THE GENERAL PATTERN SHOWN ABOVE IS TO BE MAINTAINED WHEN ASSEMBLING TRUSSES. NOTE DIRECTION OF DIAGONALS AT JOINTS.



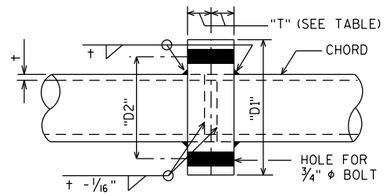
SECTION A-A

NOTES

DRAWINGS SHALL NOT BE SCALED.
STEEL COLUMN PIPE SHALL BE A.P.I. SPEC. 5L GRADE X42 Fy = 42,000 P.S.I.
ALL STEEL PIPE MEMBERS OF TRUSS SHALL BE A.P.I. SPEC. 5L GRADE X42 Fy = 42,000 P.S.I.
PLATES, BARS, STRUCTURAL ANGLES SHALL BE A.S.T.M. A709 GRADE 36 Fy = 36,000 P.S.I.
ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED.
ALL BOLTED CONNECTIONS SHALL BE MADE WITH ¾" ϕ A325 BOLTS, GALVANIZED A.S.T.M. A153, CLASS C.
WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF UNIT CAN BE GALVANIZED IN ONE PIECE.
STEEL ANCHOR BOLTS SHALL BE A.A.S.H.T.O. M314-90 GRADE 55. Fy = 55,000 P.S.I.
SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION.
BLANKS SHALL BE ¼" THE LENGTH OF THE BRIDGE, 2'-0" DEEPER THAN C TO C OF CHORDS & SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED IN PLANS.
THE UPPER 12" OF ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE A.A.S.H.T.O. SPECIFICATION AS STATED IN SECTION 641. OF THE WIS. D.O.T. STANDARD SPECIFICATIONS.
WELD TEST AS PER AWS D1.1.

TABLE

STRUCTURE	A	B	C	CHORDS O.D. X THK.	TOP & BOTTOM WEB	FRONT & REAR WEB	COUPLING PLATE "D1" & "T"	BOLT CIRCLE DIA. "D2"	NO. OF BOLTS IN COUPLING	CAMBER	COLUMN O.D. X THK.	TOWER WEBS	"L"
S-13-384	7'-9"	7'-9"	1	4½"x 0.337"	3"x3"x¼"	3"x3"x¼"	10.5 x 1⅜"	7.5"	6	1"	12¾"x 0.562"	3"x3"x¼"	81'-8¼"
S-13-394	7'-9"	7'-9"	1	4½"x 0.337"	3"x3"x¼"	3"x3"x¼"	10.5 x 1⅜"	7.5"	6	¾"	12¾"x 0.562"	3"x3"x¼"	70'-8¼"
S-13-395	7'-9"	7'-9"	1	4½"x 0.337"	3"x3"x¼"	3"x3"x¼"	10.5 x 1⅜"	7.5"	6	1"	12¾"x 0.562"	3"x3"x¼"	78'-5¼"



COUPLING DETAIL

"t" IS EQUAL TO CHORD THICKNESS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE VARIOUS

DRAWN BY BSS | PLANS CK'D. BH

GALVANIZED STEEL FULL-SPAN SIGN TRUSS

SHEET 14 OF 15

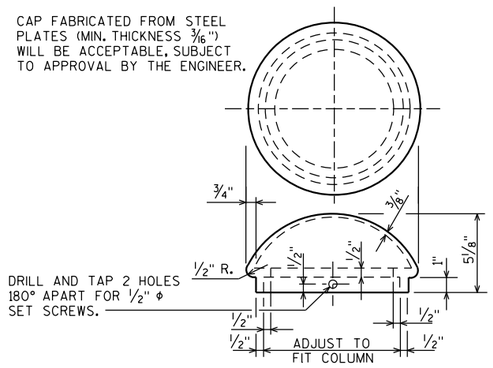
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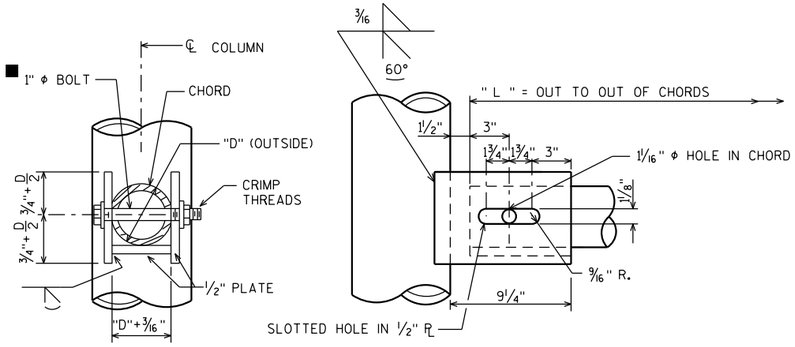
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STATE PROJECT NUMBER

1206-07-77

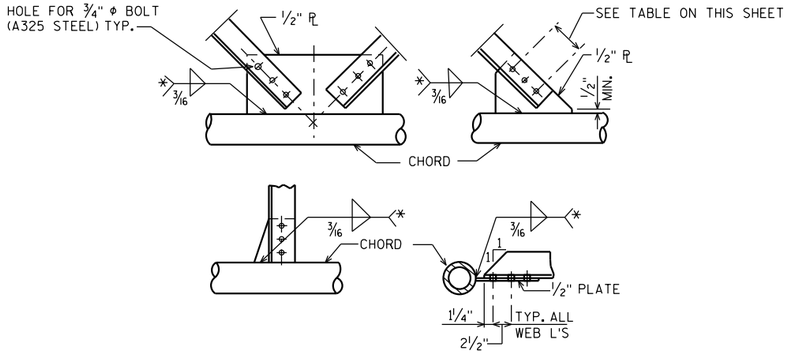


TOWER CAP DETAIL

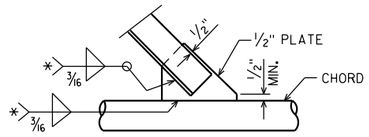


TOWER CONNECTION DETAIL

■ THIS BOLT SHALL BE AASHTO M253 (ASTM A490)



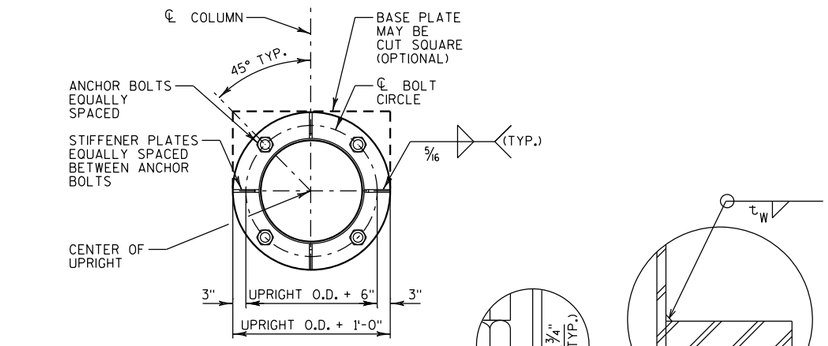
TYPICAL TRUSS CONNECTION DETAILS



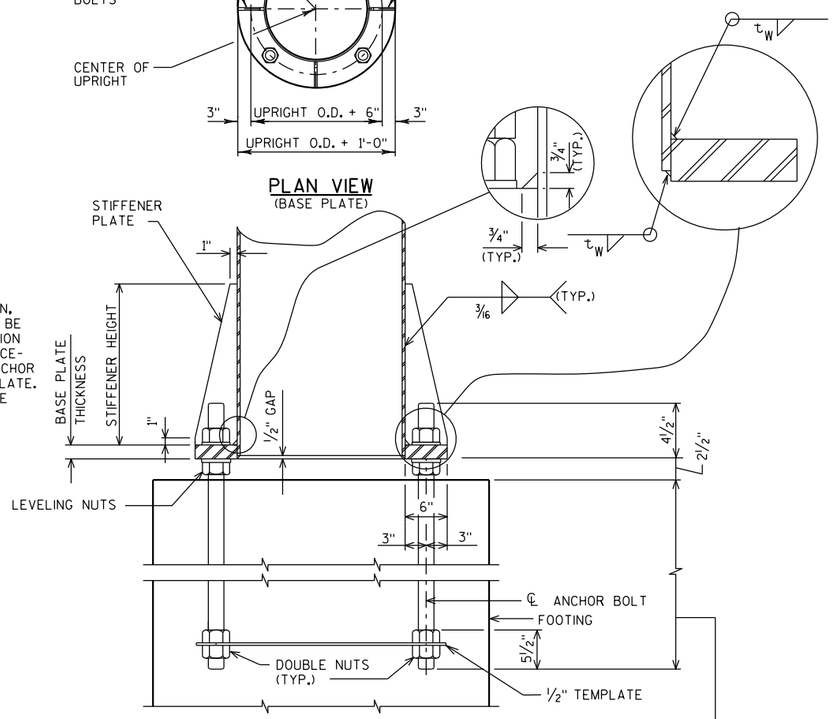
TYPICAL WELDED ALTERNATE

*ANGLE	WELD LENGTH	NO. OF BOLTS
● 2 1/2" x 2 1/2" x 1/4"	11"	3
3" x 3" x 3/16"	10"	3
3" x 3" x 1/4"	13"	4
3" x 3" x 5/16"	16 1/2"	5
3" x 3" x 3/8"	19 1/2"	6
4" x 4" x 1/4"	18"	5
4" x 4" x 5/16"	22"	6
4" x 4" x 3/8"	26"	8
4" x 4" x 7/16"	30"	9
4" x 4" x 1/2"	34"	10

● ONLY USED FOR BOXED END AND TRANSVERSE BRACING.



PLAN VIEW
(BASE PLATE)



BASE PLATE DETAIL

(SEE SHEET 11 FOR ADDITIONAL DETAILS)

2'-7" FOR 1 1/4" ANCHOR BOLTS
3'-0" FOR 1 1/2" ANCHOR BOLTS
3'-5" FOR 1 3/4" ANCHOR BOLTS

NOTE:
PRIOR TO INSTALLATION, ANCHOR BOLTS SHALL BE RIGIDLY HELD IN POSITION DURING CONCRETE PLACEMENT USING STEEL ANCHOR PLATE AND TOP TEMPLATE. REMOVE TOP TEMPLATE (NOT SHOWN) AFTER CONCRETE SETS.

BASE PLATE & UPRIGHT COLUMN DETAILS

STRUCTURE	COLUMN O.D. X THK.	ANCHOR BOLTS	BASE PLATE THICKNESS (IN.)	STIFFENER PLATE THICKNESS (IN.)	STIFFENER PLATE HEIGHT (IN.)	t_W (IN.)
S-13-384	12 3/4" x 0.562"	1 3/4"	2"	1/2"	12"	1/4"
S-13-394	12 3/4" x 0.562"	1 3/4"	2"	1/2"	12"	1/4"
S-13-395	12 3/4" x 0.562"	1 3/4"	2"	1/2"	12"	1/4"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE VARIOUS

DRAWN BY BSS | PLANS CK'D. BH

GALVANIZED STEEL FULL-SPAN SIGN TRUSS DETAILS

SHEET 15 OF 15

1110

8

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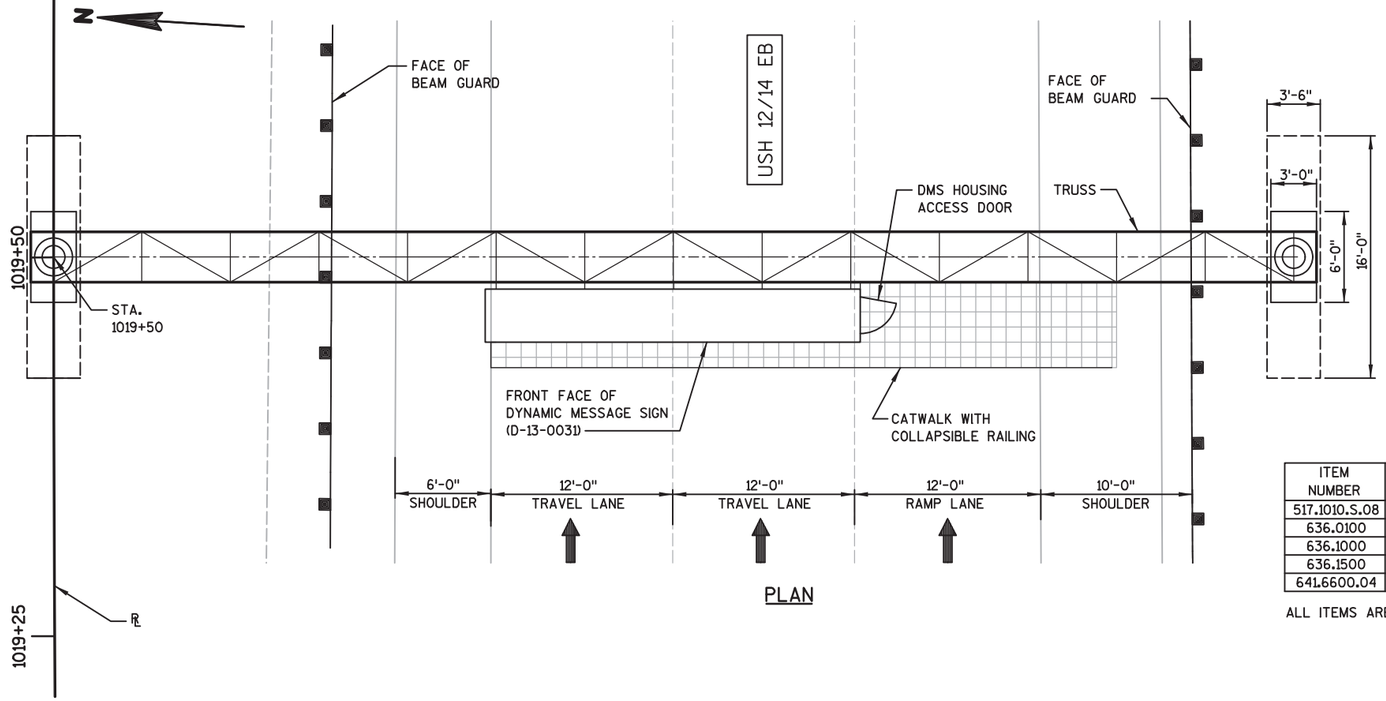
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PLOT DATE : 3/4/2013

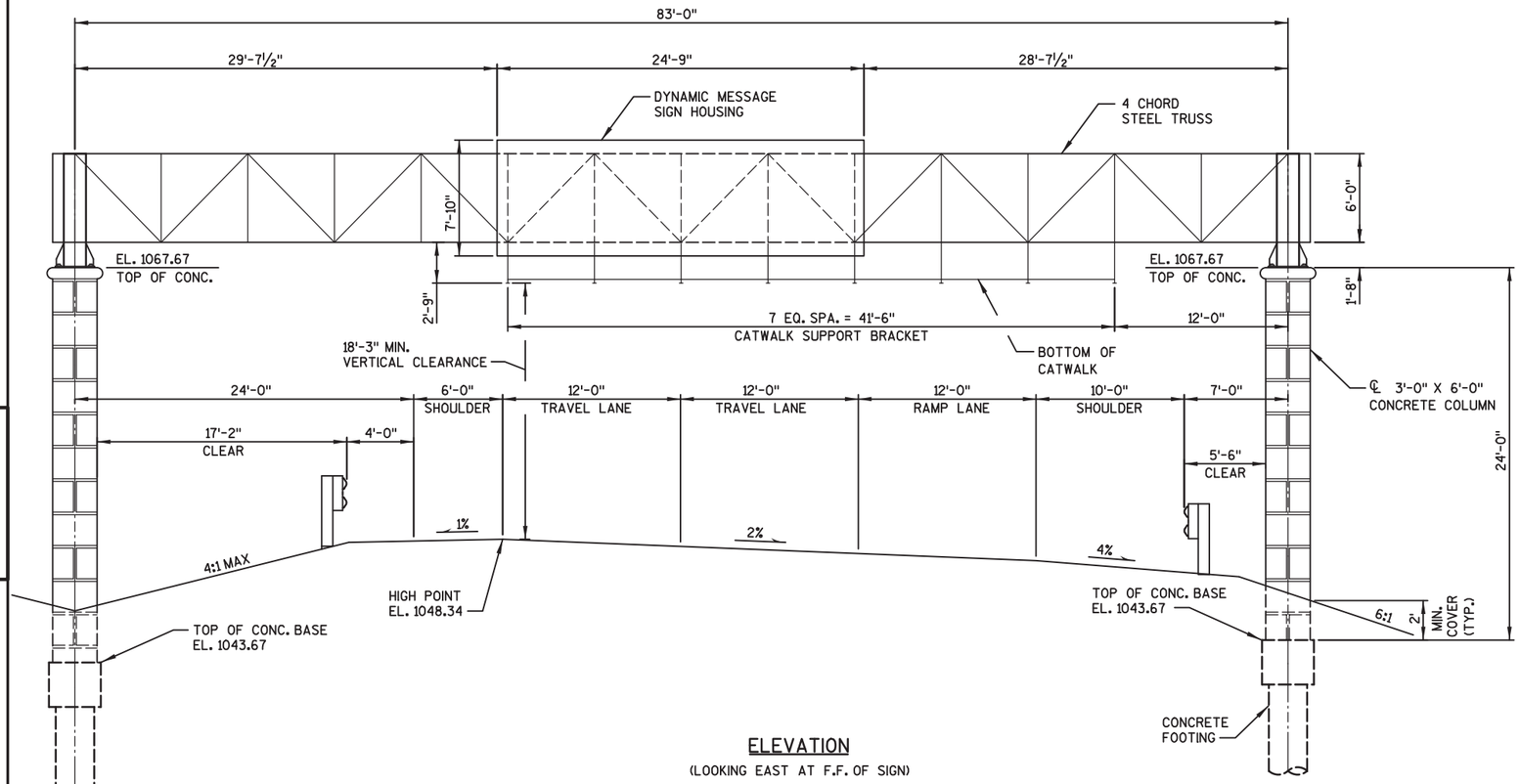
PLOT SCALE : 200.00000 ' / in.

STATE PROJECT NUMBER

1206-07-77



PLAN



ELEVATION

(LOOKING EAST AT F.F. OF SIGN)

LIST OF DRAWINGS

1. SIGN BRIDGE PLAN
2. SIGN BRIDGE NOTES & DETAILS
3. SIGN BRIDGE DETAILS
4. DMS PANEL MOUNTING DETAILS
5. CATWALK DETAILS
6. HANDHOLE DETAILS
7. TRUSS/POST CONNECTION & BASE PLATES
8. FOOTING DETAILS
9. CONCRETE COLUMN AESTHETIC DETAILS
10. COLUMN DETAILS
11. SUBSURFACE EXPLORATION

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
517.1010.S.08	CONCRETE STAINING S-13-383	SF	828
636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	69.5
636.1000	SIGN SUPPORTS STEEL REINFORCEMENT HS	LB	6,620
636.1500	SIGN SUPPORTS STEEL COATED REINFORCEMENT HS	LB	7,200
641.6600.04	SIGN BRIDGE S-13-383	LS	1

ALL ITEMS ARE CATEGORY 0160.

DESIGN DATA:

CONCRETE MASONRY: ..... f'c = 3,500 psi
HIGH STRENGTH BAR
STEEL REINFORCEMENT: ..... fy = 60,000 psi

SIGN BRIDGE
STEEL COLUMN PIPE: ..... fy = 42,000 psi
A.P.I. SPEC. 5L GRADE X42
PLATES, BARS, STRUCTURAL ANGLES: ... fy = 36,000 psi
A.S.T.M. A709 GRADE 36
STEEL ANCHOR BOLTS: ..... fy = 55,000 psi
A.A.S.H.T.O. M314-90 GRADE 55
HIGH STRENGTH BOLTS: ¾" ϕ A325 GALVANIZED
A.S.T.M. A153, CLASS C ..... fy = 92,000 psi
STRUCTURAL PLATES AND SHAPES: GALVANIZED
ASTM A123.
WELD METAL: E70XX (EXCEPT WELDING STAINLESS
RAILING CONNECTORS TO STEEL PLATE
SHALL BE A309 ELECTRODE)
RAILING CONNECTORS: (RODS, WASHERS, AND NUTS):
A.S.T.M. A276 TYPE 304

DEAD LOAD - WT. OF DMS UNIT, SUPPORTING STRUCTURE, CATWALK AND RAILINGS.
LIVE LOAD - SINGLE LINE LOAD OF 500 LBS DISTRIBUTED OVER 2'-0" OF CATWALK.
ICE LOAD - 3 P.S.F. TO 1 FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 90 M.P.H. (3-SECOND GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS.

WIND COMPONENTS	NORMAL	TRANSVERSE
COMBINATION 1	1.0	0.2
COMBINATION 2	0.6	0.3

GROUP LOADS	% OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD + WIND	133
3. DEAD + ICE + ½" (WIND*)	133

*MIN. VALUE OF 25 PSF FOR GROUP 3

SIGN DATA

DMS SIGN PROPERTIES:
SIGN AREA - 194 SF
SIGN WEIGHT - 3400 LBS.

BRIDGE OFFICE CONTACT

BILL DREHER
608-266-8489

CONSULTANT CONTACT

STRAND ASSOCIATES
BRETT OFTEDAHL
608-251-4843

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 03/09/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

WISCONSIN PROFESSIONAL ENGINEER
BRETT M. OFTEDAHL
E-41123
MADISON
WI
Brett Oftedahl 3/6/2013

STRUCTURE S-13-383

EB USH 12/14, 2,600 FT. EAST OF GAMMON RD.

COUNTY DANE ~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. AASHTO STANDARD SPECIFICATION

DESIGNED BY	MJD	DESIGN CK'D.	DDR	DRAWN BY	DTH	PLANS CK'D.	BMO

SIGN BRIDGE PLAN

SHEET 1 OF 11
1111

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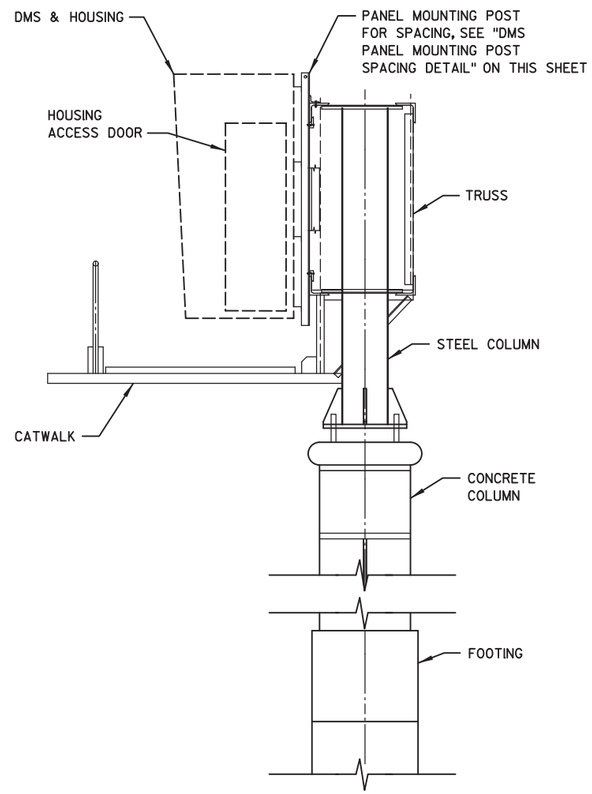
STATE PROJECT NUMBER
1206-07-77

GENERAL NOTES

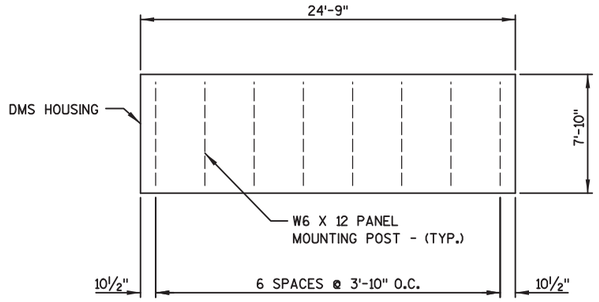
1. DRAWINGS SHALL NOT BE SCALED.
2. ALTERNATE DESIGNS ARE NOT ALLOWED.
3. PROVIDE SIGN BRIDGE IDENTIFICATION PLAQUE, INCLUDED WITH BID ITEM "SIGN BRIDGE S-13-383". SEE S.D.D. 12A 4-2.
4. DESIGNED ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", 5TH EDITION.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR (FROM RUSTICATION GROOVE) IN COLUMN AND 3" CLEAR IN FOOTINGS UNLESS DETAILED OTHERWISE.
6. ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED PER ASTM A123.
7. THE UPPER 12" OF ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE AASHTO SPECIFICATION AS STATED IN SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.
8. WELD TEST AS PER AWS D1.1.
9. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ELECTRICAL FEEDS PRIOR TO FABRICATION OF SIGN BRIDGE MEMBERS.
10. HANDHOLES AND GROUND RODS ARE REQUIRED.
11. ALL HIGH STRENGTH BOLTS, NUTS, AND WASHERS EXCEPT ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS 506.2.5 AND BE INSTALLED IN ACCORDANCE WITH STANDARD SPECIFICATION 506.3.12.
12. DO NOT GROUT THE SPACE BETWEEN TOP OF COLUMN AND BOTTOM OF BASE PLATE.
13. SHOP DRAWINGS FOR THE STRUCTURE ARE REQUIRED AND FABRICATION SHALL NOT BEGIN UNTIL THESE SHOP DRAWINGS ARE APPROVED.
14. THE STRUCTURE MUST BE ASSEMBLED AFTER GALVANIZING AND PRIOR TO SHIPMENT TO THE SITE TO ASSURE FIT UP. IT MAY BE DISASSEMBLED FOR SHIPPING.
15. PROVIDE A CAMBER WITH THE MAXIMUM UPWARD DEFLECTION AS CALLED FOR ON THE CAMBER TABLE. INDICATE ON THE SHOP DRAWINGS THE METHOD TO BE USED TO PROVIDE THE REQUIRED CAMBER.
16. EXCEPT FOR ANCHOR BOLTS, ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16". PRIOR TO GALVANIZING, HOLE DIAMTERS SHALL NOT EXCEED THE BOLT DIAMETER PLUS 1/2".
17. ANCHOR BOLTS SHALL BE PROVIDED WITH TEMPLATES TOP AND BOTTOM TO MAINTAIN VERTICAL ALIGNMENT AND SPACING DURING CONCRETE PLACEMENT. TEMPLATES SHALL NOT BE WELDED TO THE ANCHOR BOLTS.
18. EXCAVATION REQUIRED TO CONSTRUCT THE SIGN STRUCTURE FOUNDATION SHALL BE INCLUDED WITH THE BID ITEM "SIGN SUPPORTS CONCRETE MASONRY".

CAMBER TABLE

STRUCTURE	SPAN	CAMBER @ MIDPT. (IN)	CAMBER @ 1/4 PT. (IN)
S-13-383	83'-0"	1 1/2"	1 1/8"



END VIEW



DMS PANEL MOUNTING POST SPACING DETAIL

NOTES:
POST SPACING MAY BE ADJUSTED AS REQUIRED
IF CONFLICT WITH TRUSS DETAILS IS ENCOUNTERED.

8

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-383

DRAWN BY AJW | PLANS CK'D. BMO

SIGN BRIDGE NOTES & DETAILS

SHEET 2
1112

STATE PROJECT NUMBER
1206-07-77

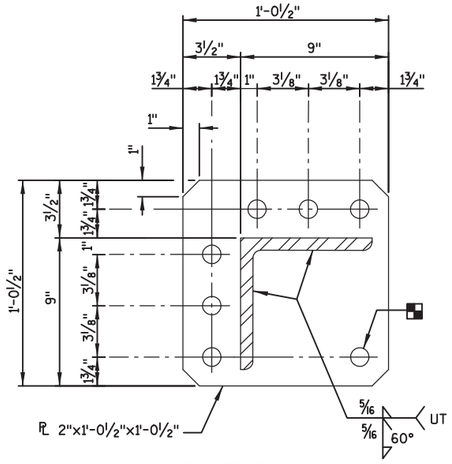
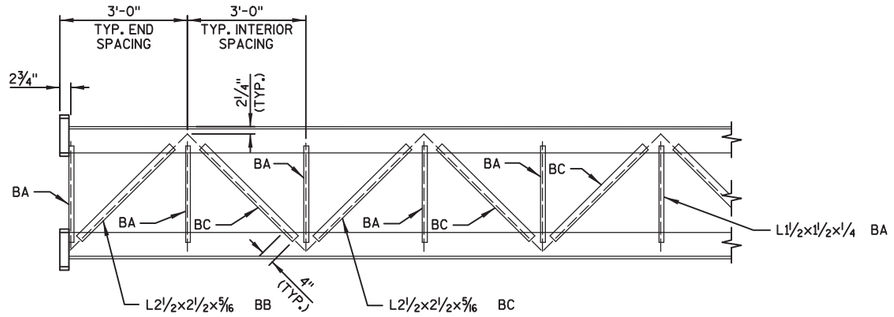
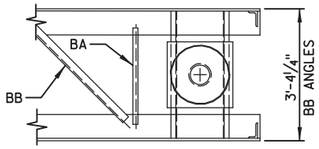


PLATE F

■ DRILL 1⁹⁄₁₆" ϕ ASSEMBLED FOR 1" ϕ H.S. BOLTS
28 - 1" ϕ x 5¾" LG. H.S. BOLTS W/1 WASHER REQ'D.
PER TRUSS CONNECTION



TOP VIEW



NOTES:
TRUSS SECTIONS SHALL BE MADE IN MULTIPLES OF 6'-0". EXCEPT THAT THE BRACING PANEL NEAREST EACH POST MAY VARY TO MAKE UP THE NEEDED SECTION LENGTH. WELDED CHORD SPLICES ARE NOT PERMITTED.

UNLESS OTHERWISE SHOWN. ALL WELDS SHALL BE ¼" FILLET WELDS ALL AROUND.

BOLTED SPLICES MAY BE LOCATED BEHIND DMS SIGNS.

PROVIDE TWO 1⁄16" SHIMS PER CHORD FOR EACH BOLTED SPLICE: SHIM MATERIAL SHALL BE BRASS, STAINLESS STEEL, OR GALVANIZED STEEL.

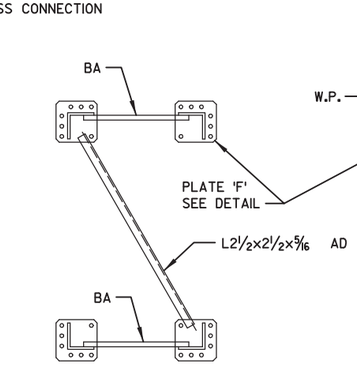
TRUSSES SHALL BE SHOP ASSEMBLED AND MATCH MARKED.

ALL VIEWS OF THE TRUSSES ARE DRAWN FROM THE INSIDE OF THE TRUSS LOOKING OUT.

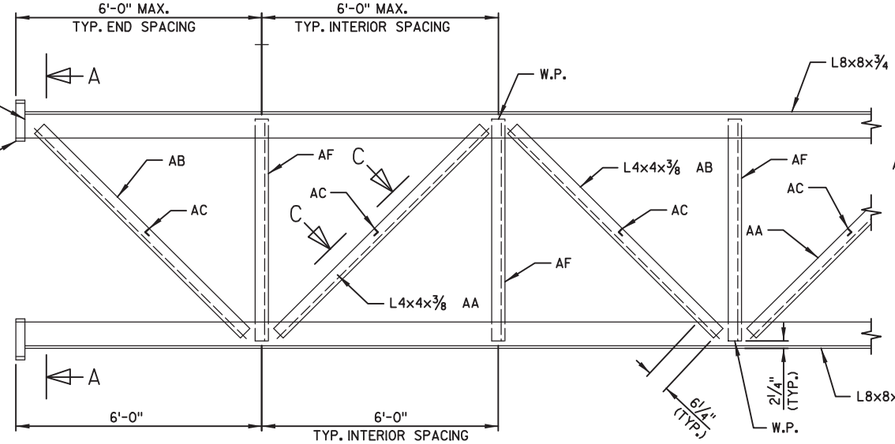
CHORD SPLICES, IF REQUIRED SHALL BE IN ACCORDANCE WITH PLATE 'F' DETAIL.

CHORD SPLICES SHALL BE AT THE TOP OF THE DIAGONAL MEMBERS FOR PROPER WELDING.

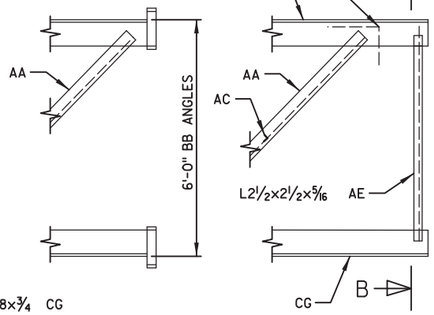
SEE SHEET 7 FOR POST CONNECTION DETAIL.



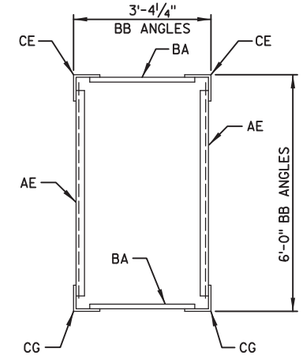
SECTION A-A



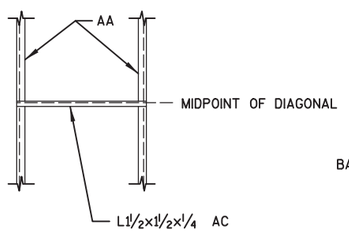
ELEVATION



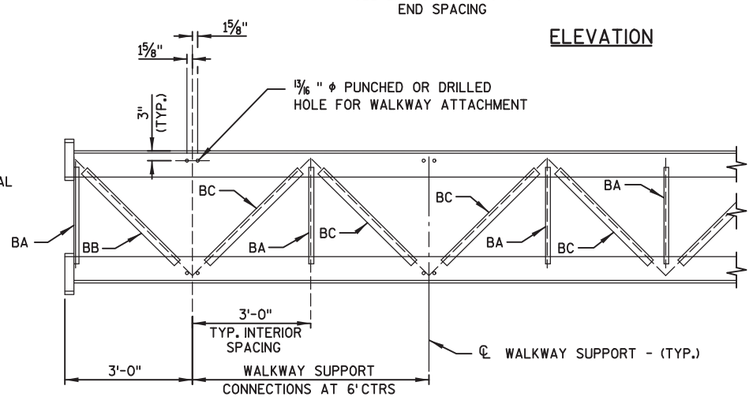
END ELEVATION



SECTION B-B

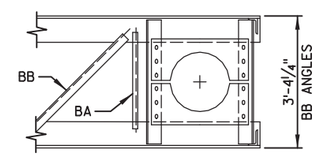


SECTION C-C



BOTTOM VIEW

NOTE:
THE BOTTOM VIEW IS DETAILED TO PROVIDE FOR WALKWAY ATTACHMENT. WHERE THE WALKWAY IS OMITTED, PROVIDE STRUTS 'BA' AS INDICATED IN THE TOP VIEW.



MEMBER ID	DESCRIPTION
AA	L4x4x⅜
AB	L4x4x⅜
AC	L1½x1½x¼
AD	L2½x2½x5/16
AE	L2½x2½x5/16
AF	L4x4x⅜
BA	L1½x1½x¼
BB	L2½x2½x5/16
BC	L2½x2½x5/16
CE	L8x8x¾
CG	L8x8x¾

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-383

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SIGN BRIDGE DETAILS

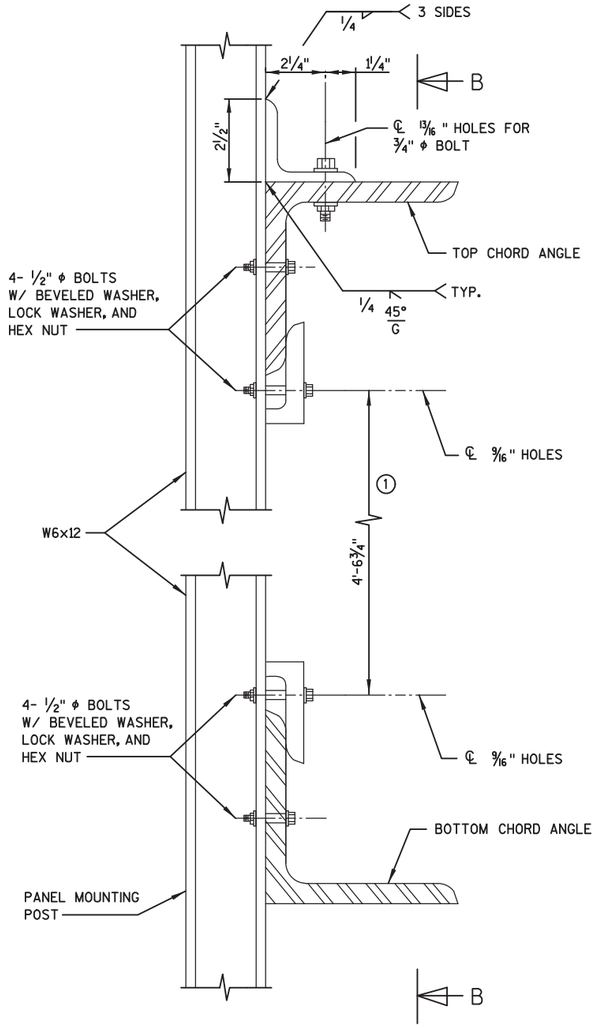
SHEET 3
1113

8

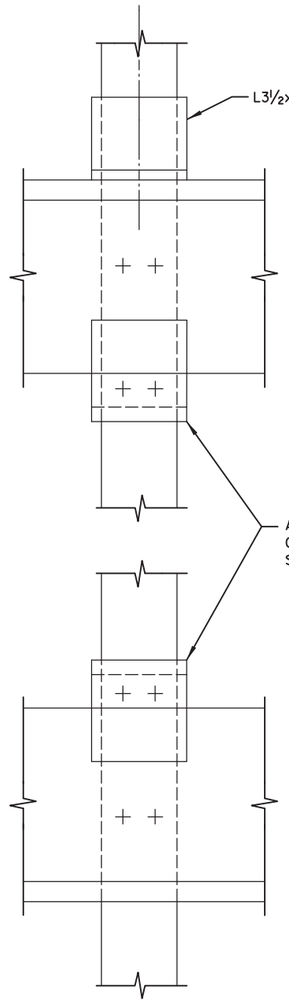
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STATE PROJECT NUMBER

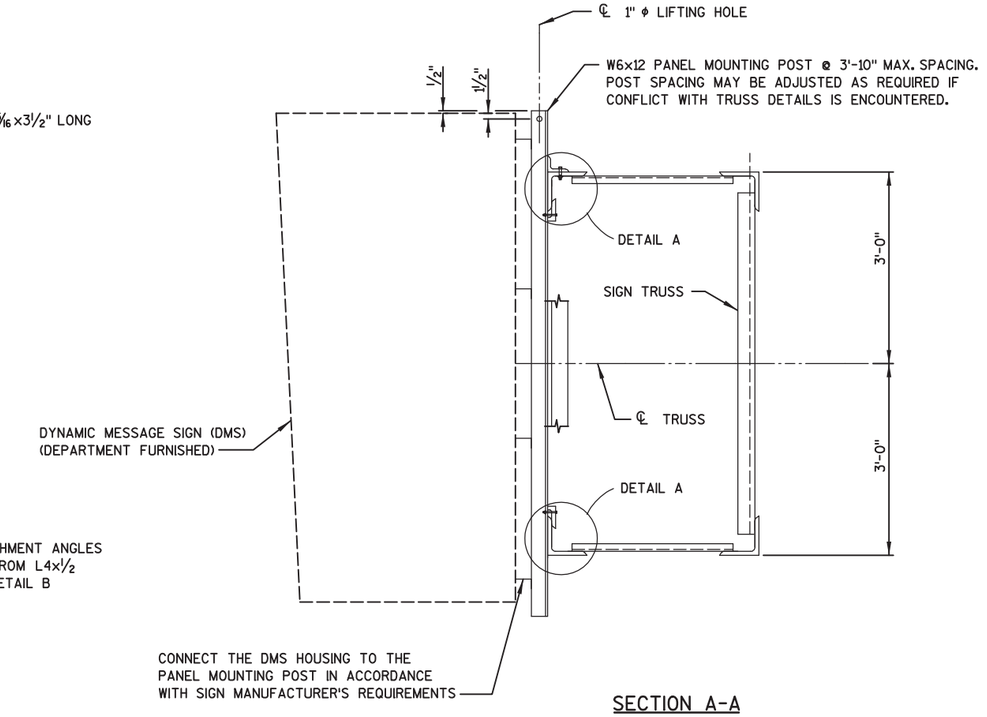
1206-07-77



DETAIL A

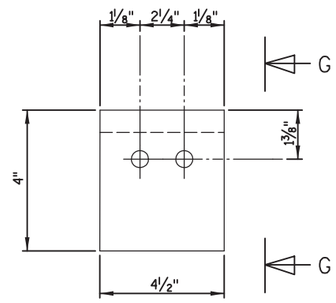


SECTION B-B

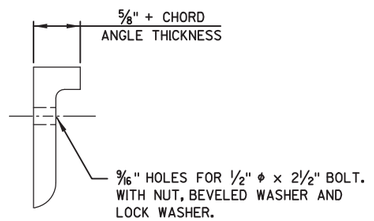


SECTION A-A

SECTION THRU TRUSS



DETAIL B



SECTION G-G

NOTES:

(1) (TRUSS DEPTH) - (TOP & BOTTOM CHORD < LEGS) - 1 1/4"

W6X12 PANEL MOUNTING POSTS AND 3 1/2x2 1/2 ANGLES WELDED TO THE POSTS SHALL BE SUPPLIED WITH THE TRUSS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-383

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DMS PANEL MOUNTING DETAILS

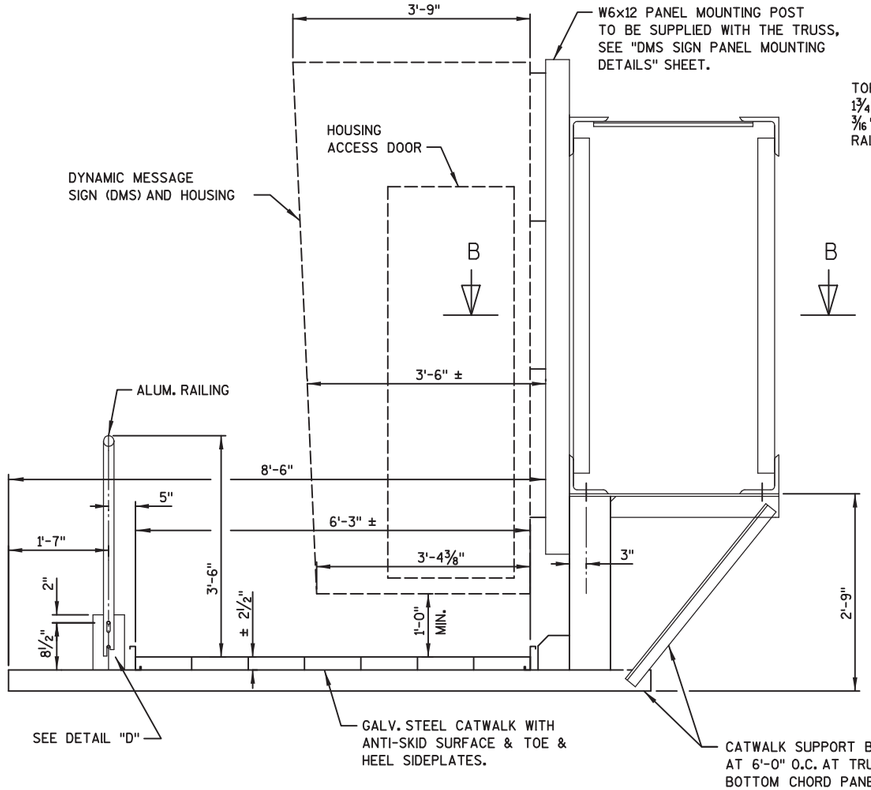
SHEET 4
1114

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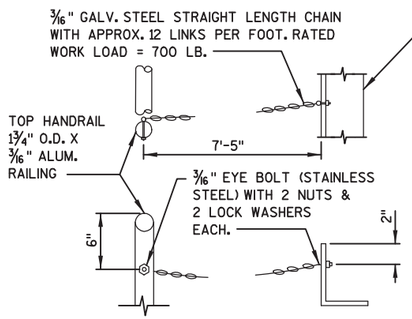
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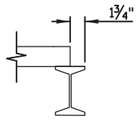
1206-07-77



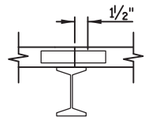
SECTION THRU WALKWAY



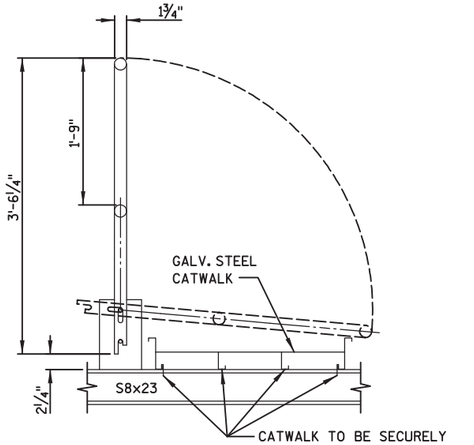
SAFETY CHAIN DETAIL



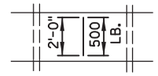
CATWALK TERMINATION DETAIL



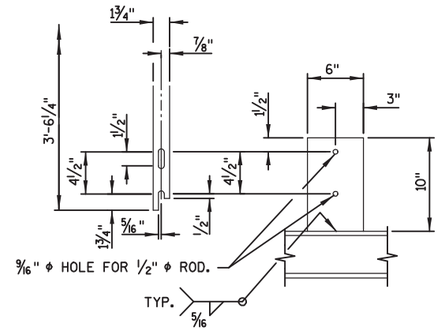
CATWALK SPLICE LOCATION DETAIL



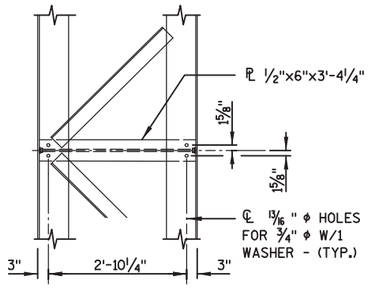
RAIL POST DETAIL



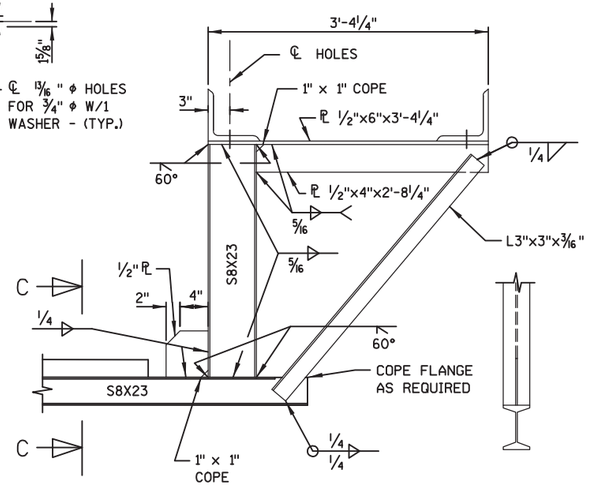
NOTES:
CATWALK SHALL MEET AASHTO "SPECIFICATIONS FOR THE DESIGN & CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS" 1985. (500 LB. DISTRUBUTED OVER 2'-0" TRANSVERSELY WITH THE BASIC ALLOWABLE UNIT STRESS - AASHTO HIGHWAY BRIDGES 1985 (INCREASED 25%). MAX. SPAN IS 8'-0". CATWALK SHALL ALSO MEET OSHA 1970 STANDARDS FOR WALKING-WORKING SURFACES.



DETAIL "D"

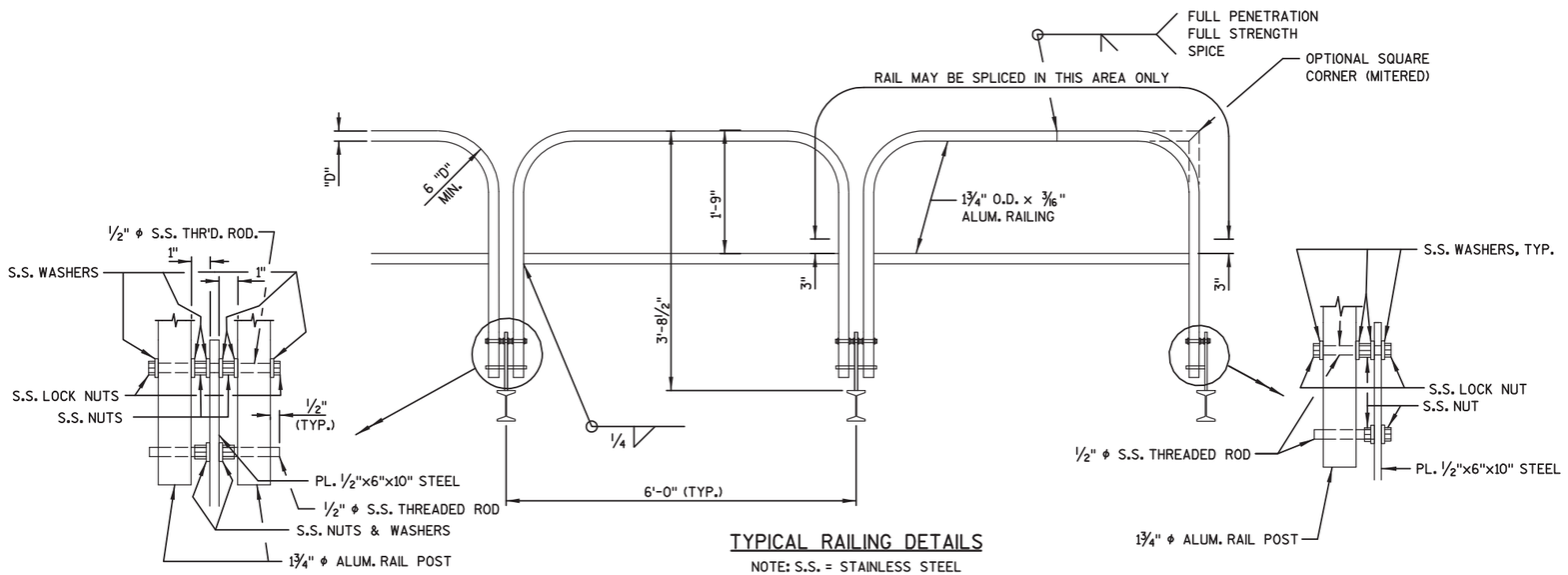


SECTION B-B



BRACKET DETAIL

SECTION C-C



TYPICAL RAILING DETAILS

NOTE: S.S. = STAINLESS STEEL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-383

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CATWALK DETAILS

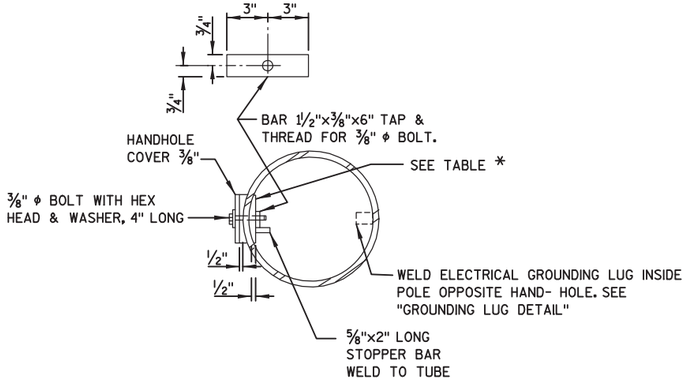
SHEET 5
1115

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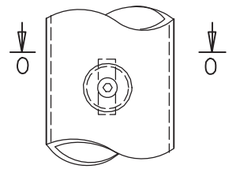
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STATE PROJECT NUMBER

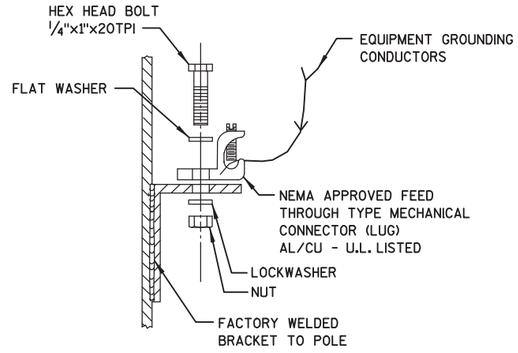
1206-07-77



SECTION 'O'

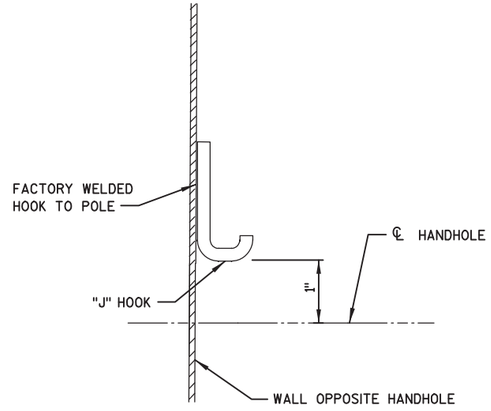


HANDHOLE DETAILS



GROUND LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



TYPICAL "J" HOOK LOCATION

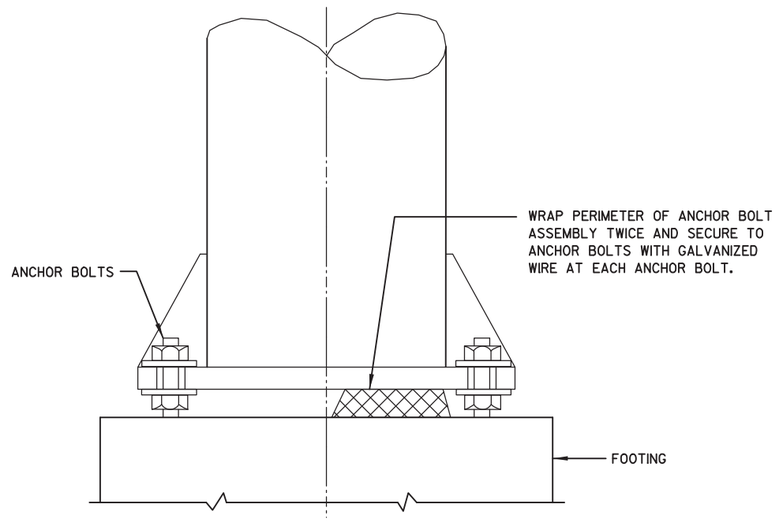
THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.

HANDHOLE NOTES

HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGIONAL TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL DETAIL PLAN SHEETS.

*

UPRIGHT DIAM. SIZE	HANDHOLE PIPE O.D. x MIN. THK.
UP TO AND INCLD. 16" x .375"	5.562" x .500"
GREATER THAN 16" x .375" TO AND INCLD. 24" x .562"	6.625" x .562"



RODENT SCREEN

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-383

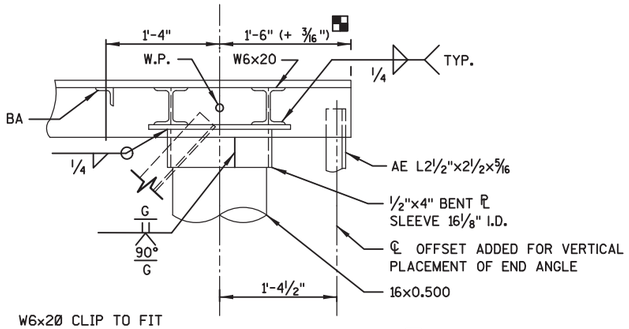
DRAWN BY AJW | PLANS CK'D. BMO

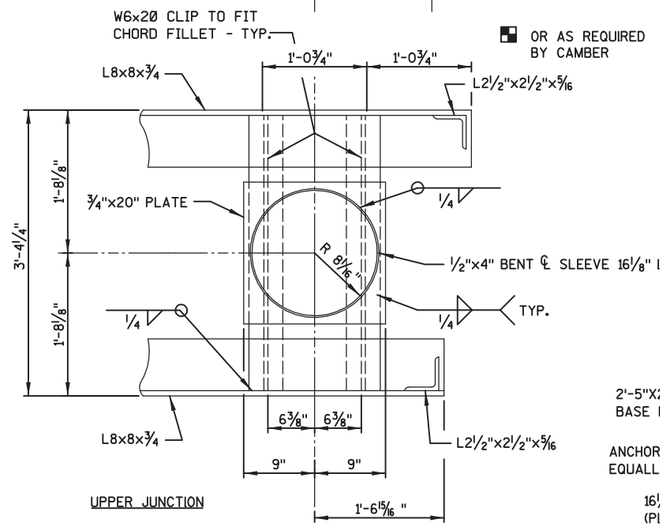
HANDHOLE DETAILS

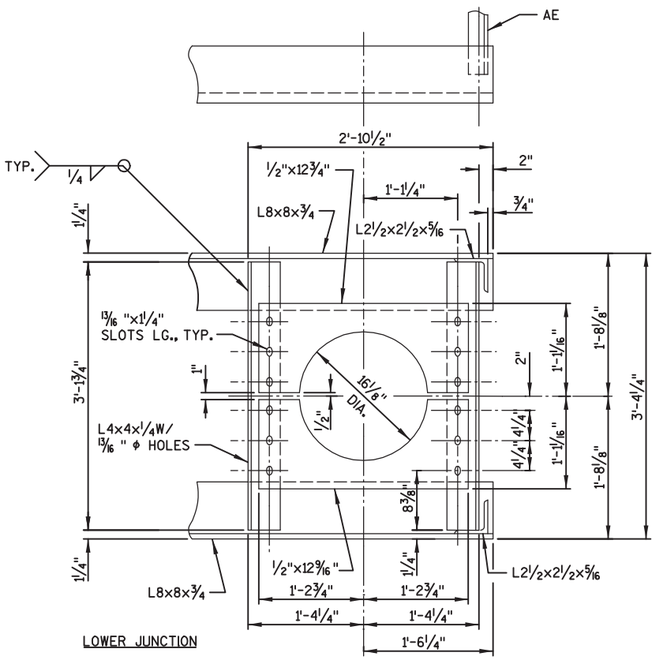
SHEET 6
1116

STATE PROJECT NUMBER

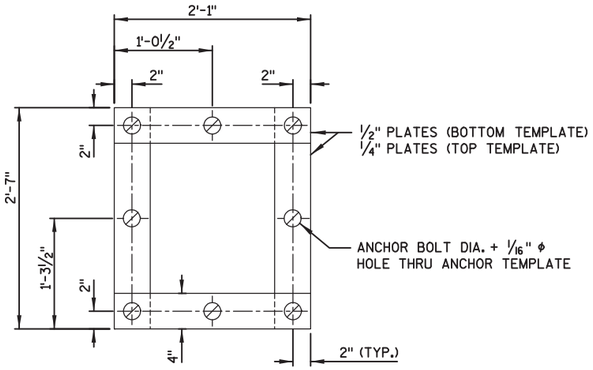
1206-07-77



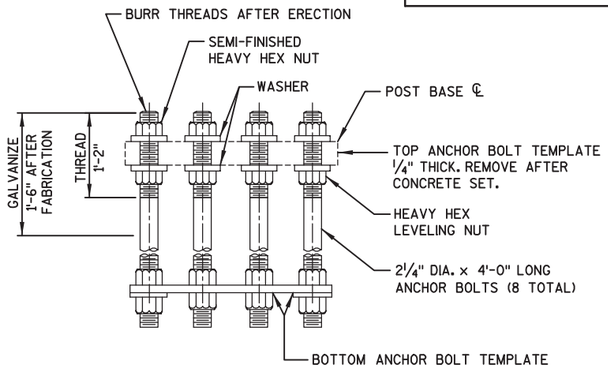




SIMPLE TRUSS

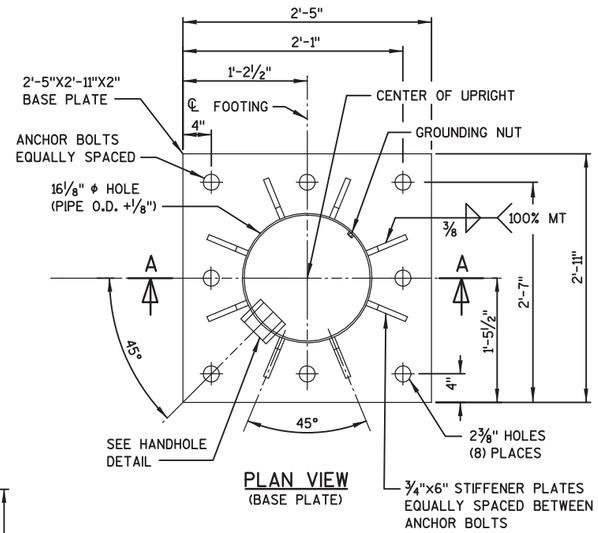


ANCHOR BOLT TEMPLATE PLAN



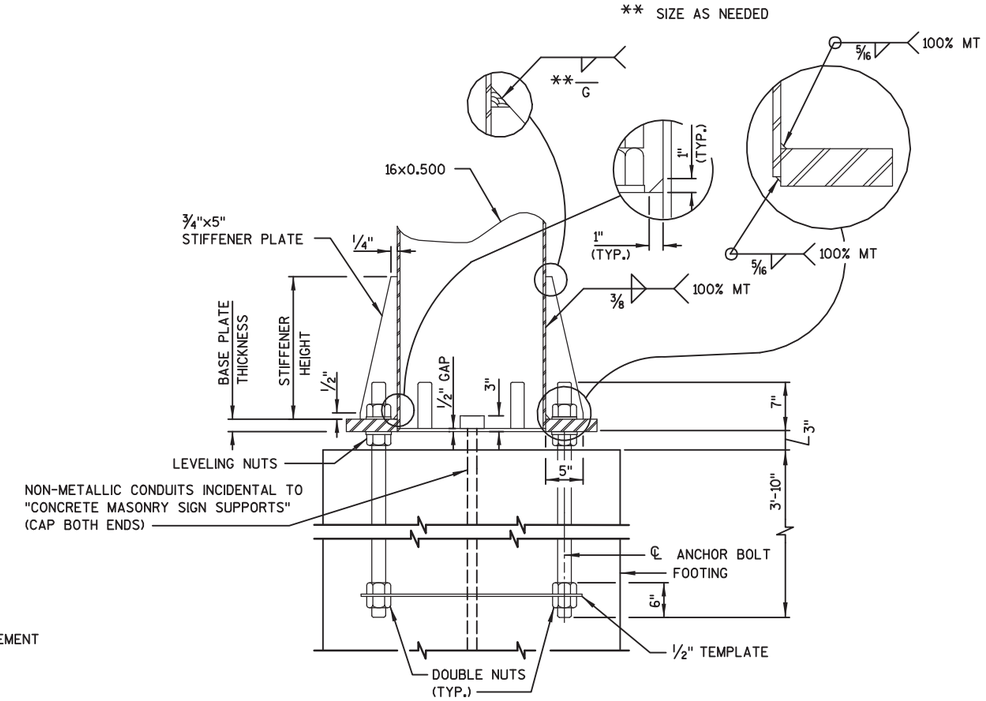
ELEVATION

ANCHOR BOLT DETAILS



PLAN VIEW
(BASE PLATE)

NOTE:
PRIOR TO INSTALLATION, ANCHOR BOLTS SHALL BE RIGIDLY HELD IN POSITION DURING CONCRETE PLACEMENT USING STEEL ANCHOR/TEMPLATES AT BOTTOM.



SECTION A-A

BASE PLATE & UPRIGHT COLUMN DETAILS

STRUCTURE	COLUMN O.D. x THK.	ANCHOR BOLTS	BASE PLATE THICKNESS (IN.)	STIFFENER PLATE THICKNESS (IN.)	STIFFENER PLATE HEIGHT (IN.)	t_W (IN.)
S-13-383	16x0.500	2 1/4	2"	3/4	10	1/2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-383

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TRUSS/POST CONNECTION & BASE PLATES

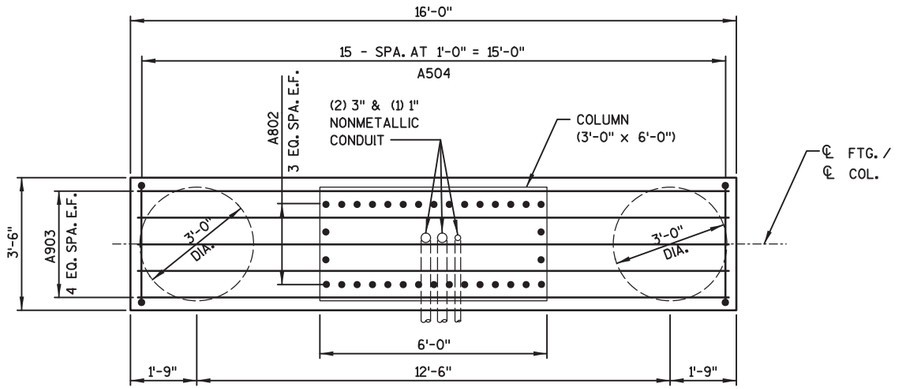
SHEET 7
1117

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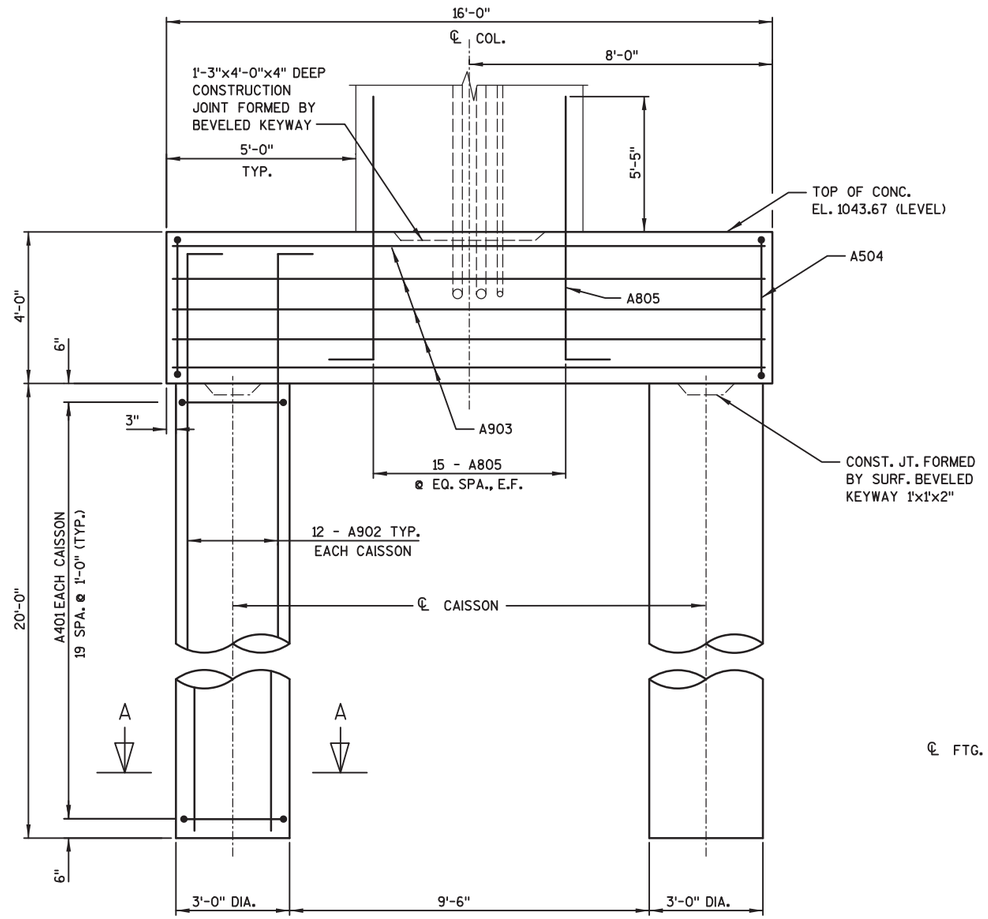
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STATE PROJECT NUMBER

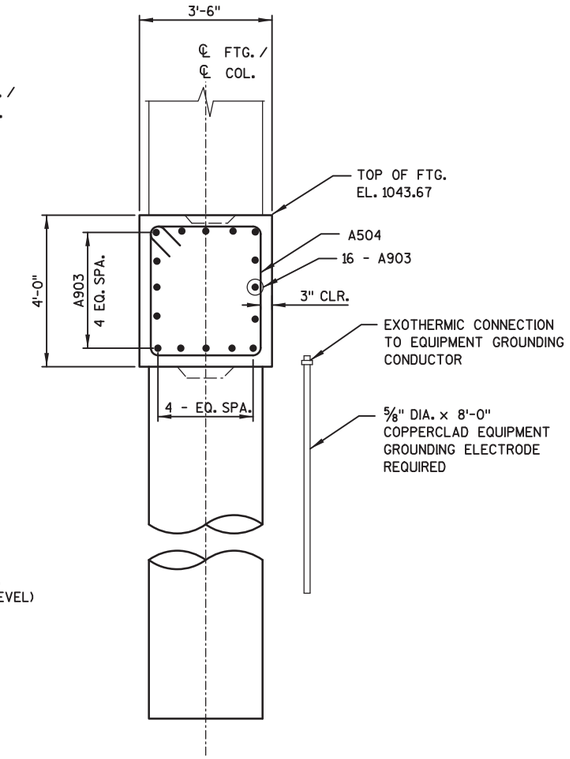
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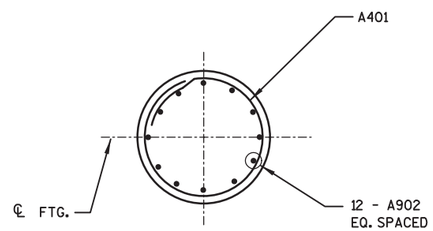
PLAN



ELEVATION



END VIEW



SECTION A-A

NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR FOR CAISSONS AND PORTION OF FOOTING ABOVE CAISSONS.

BEVEL EXPOSED EDGES 1" UNLESS OTHERWISE NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR DIMENSIONS ARE OUT TO OUT OF BAR, UNLESS OTHERWISE NOTED.

PROVIDE ELECTRICAL CONDUIT AT SOUTH COLUMN/ FOUNDATION ONLY. SEE ELECTRICAL PLANS.

A NO.4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODES (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE FOOTING THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES.

GROUNDING ROD, CONDUCTOR, AND CONDUIT FOR GROUNDING SHALL BE INCLUDED WITH BID ITEM "SIGN SUPPORT CONCRETE MASONRY".

ULTIMATE DESIGN STRESSES

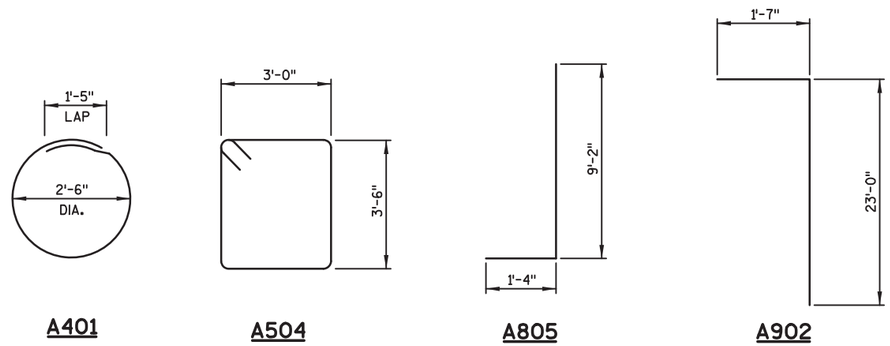
CONCRETE MASONRY ---------- f'c = 3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT,
AASHTO M31 GRADE 60 ---------- fy = 60,000 psi

FOUNDATION DATA

A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS STRUCTURE AND IS AVAILABLE FROM THE REGION UPON REQUEST.

THE FOLLOWING ASSUMPTIONS WERE USED FOR THE DESIGN OF THE FOUNDATION SYSTEM. IF VARIATIONS IN THE ASSUMED DESIGN PARAMETERS ARE FOUND DURING CONSTRUCTION, NOTIFY PROJECT ENGINEER FOR REQUIRED MODIFICATION TO THE FOUNDATION SYSTEM.

ALLOWABLE SOIL BEARING PRESSURE = 25000 PSF



FOOTING BILL OF BARS

COATED: 940 LBS
UNCOATED: 3,310 LBS

BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
A401	40	9'-4"	X		CAISSON - HOOPS
A902	24	24'-4"	X		CAISSON - VERTICAL
A903	16	15'-6"			FOOTING - LONGITUDINAL
A504	16	13'-7"	X		FOOTING - STIRRUPS
A805	34	10'-4"		X	FOOTING - DOWELS

SHOWN QUANTITIES ARE FOR ONE FOOTING. TWO FOOTINGS ARE REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-383

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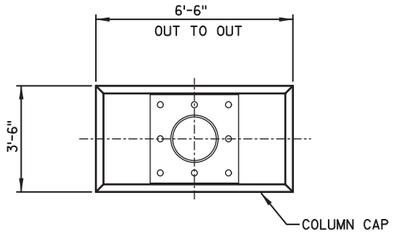
FOOTING DETAILS

SHEET 8
1118

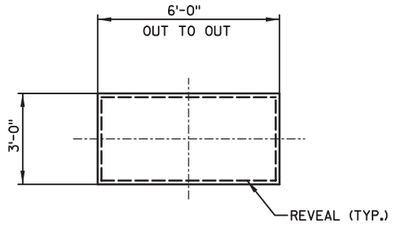
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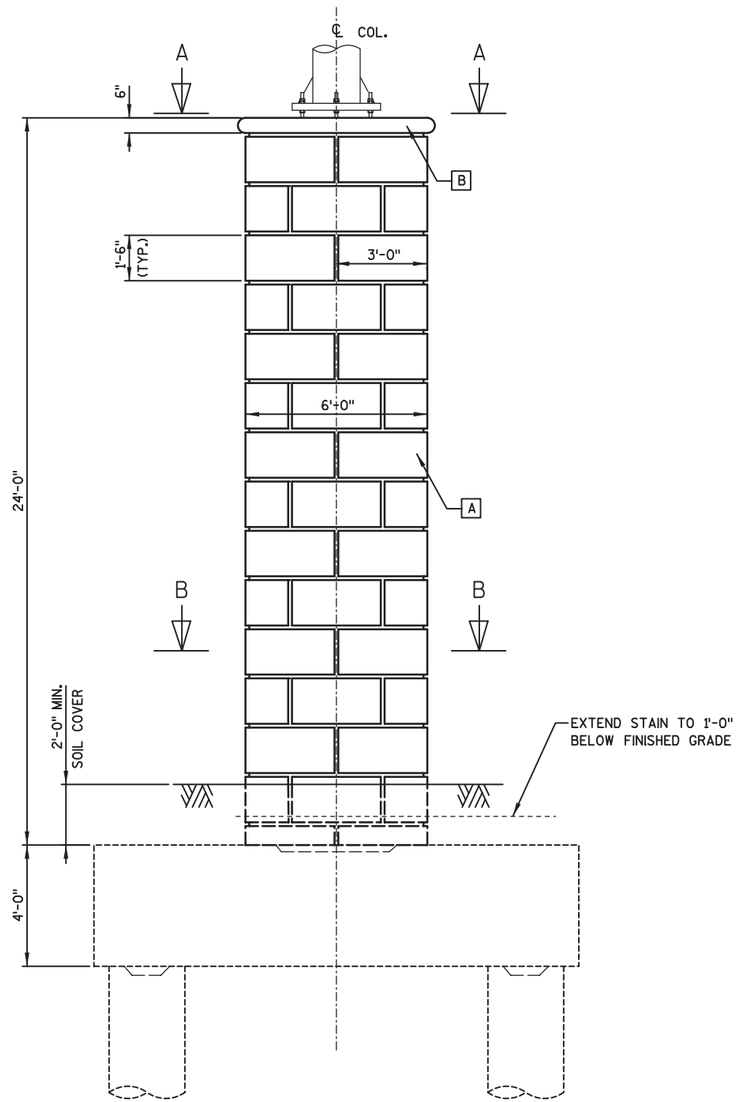
STATE PROJECT NUMBER
1206-07-77



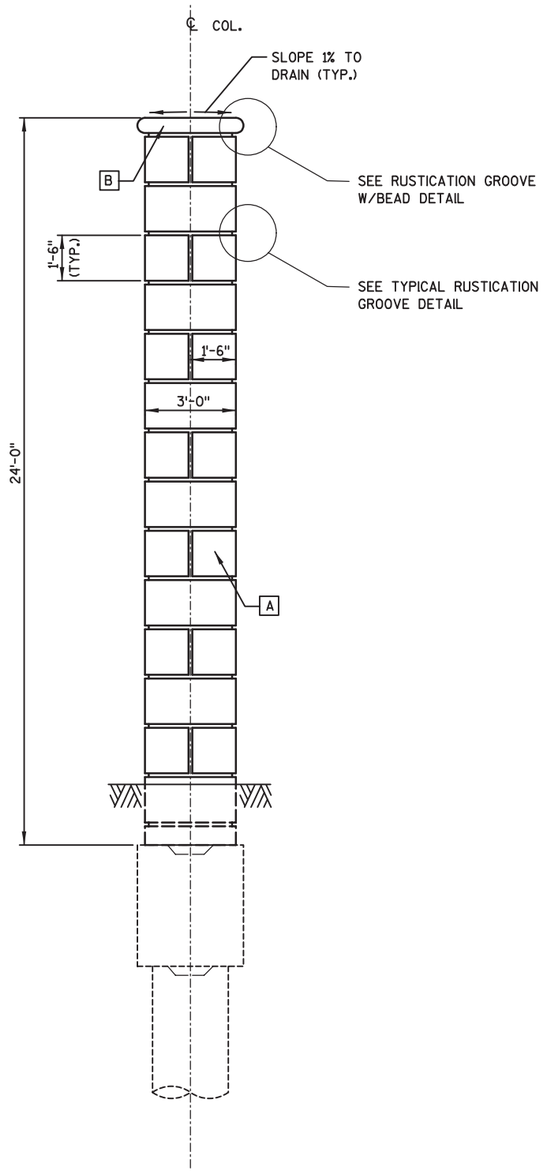
SECTION A-A



SECTION B-B



ELEVATION



END VIEW

NOTES & LEGEND

ALL SPACING OF RUSTICATION GROOVES AND HALF ROUND BEADS TO START AT TOP OF COLUMN.

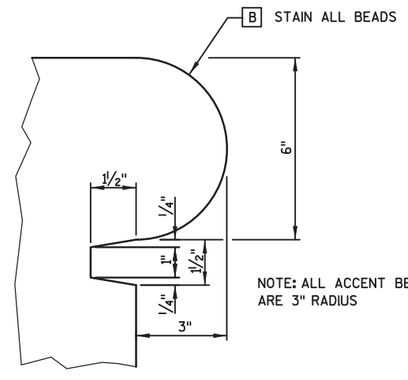
DIMENSIONS FOR RUSTICATION ARE TO CENTER OF JOINT.

PROVIDE RUSTICATION BLOCK WORK AS SHOWN AND APPROVED BY THE ENGINEER.

RUSTICATIONS AND HALF ROUND (TOP BEAD) ARE INCLUDED WITH BID ITEM "SIGN SUPPORTS CONCRETE MASONRY".

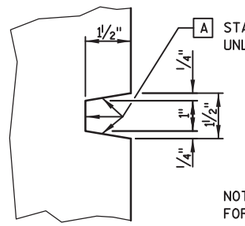
[A] CONCRETE STAIN BASE COLOR: PEARL GRAY
FEDERAL COLOR 26622

[B] CONCRETE STAIN ACCENT COLOR: MEDIUM GRAY
FEDERAL COLOR 36373



NOTE: ALL ACCENT BEADS ARE 3" RADIUS

RUSTICATION GROOVE W/BEAD DETAIL



NOTE: THIS DETAIL TO BE USED FOR ALL RUSTICATION GROOVES

TYPICAL RUSTICATION GROOVE DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-383

DRAWN BY AJW | PLANS CK'D. BMO

CONCRETE COLUMN AESTHETIC DETAILS

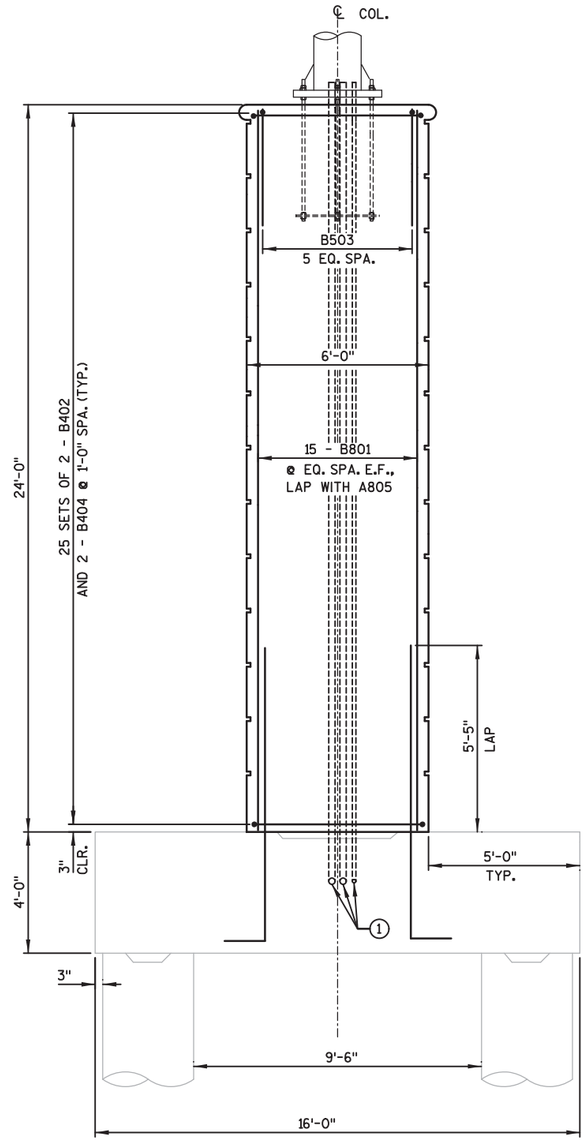
SHEET 9
1119

8

8

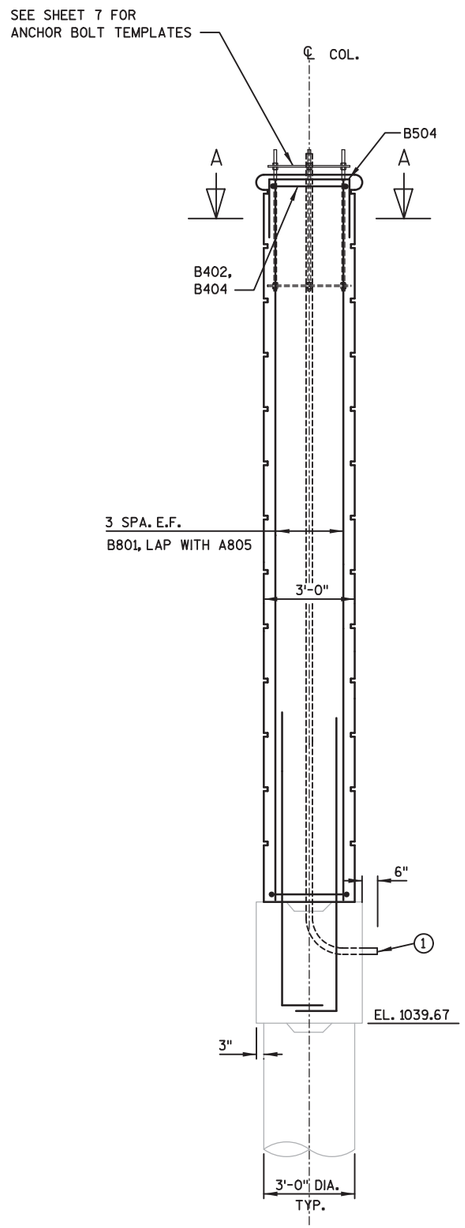
STATE PROJECT NUMBER

1206-07-77

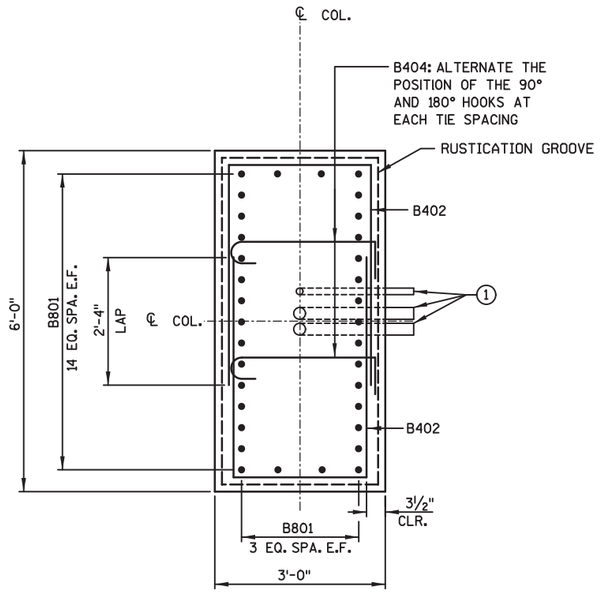


ELEVATION

B405 NOT SHOWN FOR CLARITY



END VIEW



SECTION A-A

NOTES

DRAWINGS SHALL NOT BE SCALED.

TWO COLUMNS ARE REQUIRED.

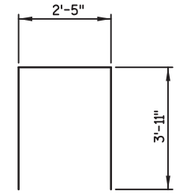
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR FOR FOOTING AND 2" CLEAR FOR CONCRETE COLUMN

(1) 2-3" DIA. AND 1-1" DIA. NON-METALLIC CONDUITS CAST IN CONCRETE COLUMN. STUB OUT FROM TOP OF COLUMN FOR HANDHOLE (SEE SHEET 6) AND STUB OUT OF COLUMN FOOTING BELOW GRADE. INCIDENTAL TO SIGN SUPPORTS CONCRETE MASONRY.

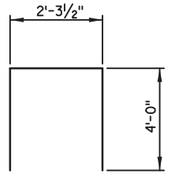
SEE SHEET 8 FOR FOOTING AND DRILLED SHAFT DETAILS.

SLOPE TOP OF CONCRETE COLUMN, SEE SHEET 9 FOR DETAILS.

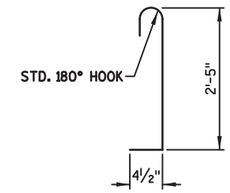
BAR DIMENSIONS ARE OUT TO OUT OF BAR, UNLESS OTHWERWISE NOTED.



B402



B503



B404

COLUMN BILL OF BARS

COATED: 2,660 LBS.

BAR MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
B801	34	23'-8"		X	COLUMN - VERTICAL
B402	50	10'-1"	X	X	COLUMN - HORIZONTAL
B503	6	10'-2"	X	X	COLUMN - TOP - VERTIACAL
B404	50	3'-3"	X	X	CROSS TIES IN COLUMN - HORIZ.

SHOWN QUANTITIES ARE FOR ONE COLUMN. TWO COLUMNS ARE REQUIRED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-383

DRAWN BY AJW | PLANS CK'D. BMO

COLUMN DETAILS

SHEET 10
1120

8

8

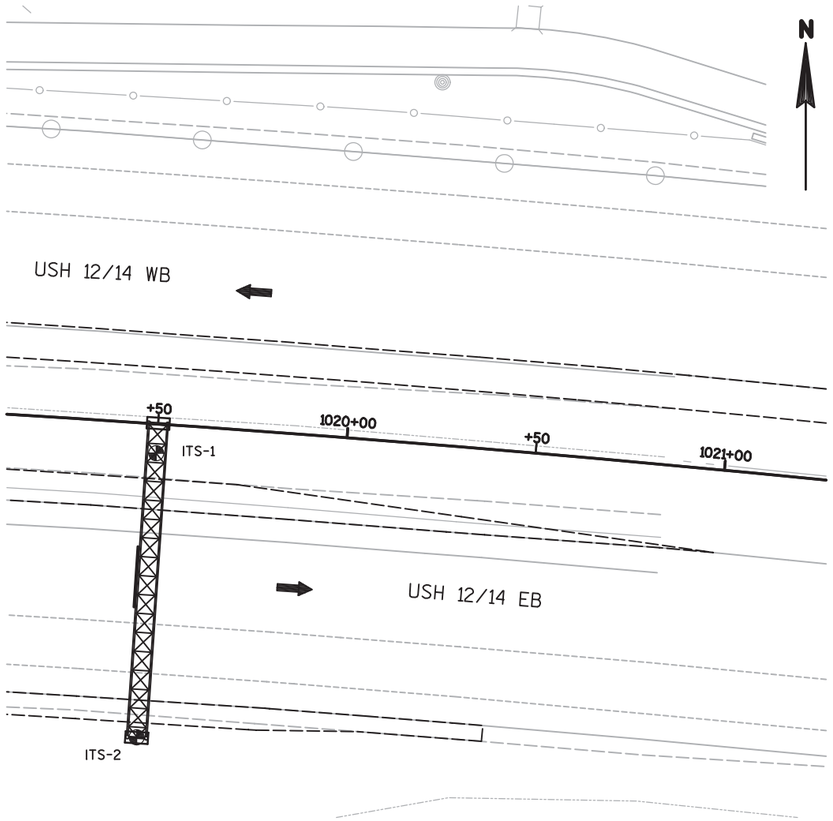
SOIL PROERTIES - BORING ITS-1

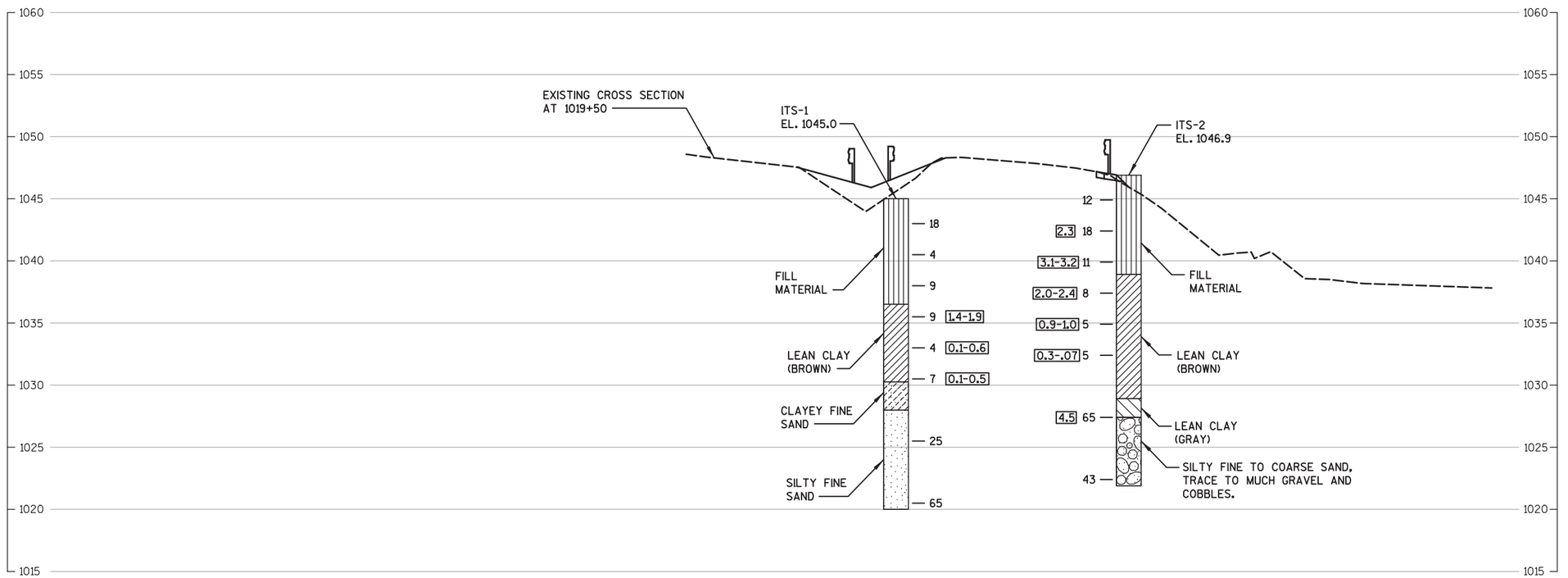
ELEVATION (FEET)	ESTIMATED SOIL PROPERTIES: UNIT WEIGHT (LB/FT^3)	ESTIMATED SOIL PROPERTIES: ANGLE OF INTERNAL FRICTION (DEGREES)	ESTIMATED SOIL PROPERTIES: COHESION (LB/FT^2)	LATERAL EARTH PRESSURE COEFFICIENTS: ACTIVE Ka	LATERAL EARTH PRESSURE COEFFICIENTS: PASSIVE Kp	LATERAL EARTH PRESSURE COEFFICIENTS: AT-REST Ko	COEFFICIENT OF HORIZONTAL SUBGRADE REACTION ($KIPS/FT^3$)	RECOMMENDED ULTIMATE VALUES: SKIN FRICTION (LB/FT^2/VERTICAL FT.)	RECOMMENDED ULTIMATE VALUES: END BEARING ($TONS/FT^2$)
1043.5 TO 1042.0	125	38	0	0.24	4.2	0.38	25	IGNORE	---
1042.0 TO 1040.0	122	29	0	0.35	2.9	0.52	16	IGNORE	---
1040.0 TO 1036.5	128	31	0	0.32	3.1	0.49	28	650	---
1036.5 TO 1035.0	135	0	1,600	1.00	1.0	1.00	35	880	---
1035.0 TO 1032.0	125	0	330	1.00	1.0	1.00	6	180	---
1032.0 TO 1030.3	127	0	750	1.00	1.0	1.00	16	410	---
1030.3 TO 1028.0	127	30	0	0.33	3.0	0.50	69	1,110	---
1028.0 TO 1023.0	126	36	0	0.26	3.9	0.41	276	2,090	15
1023.0 TO 1020.0	130	40	0	0.22	4.6	0.36	830	2,450	25

SOIL PROERTIES - BORING ITS-2

ELEVATION (FEET)	ESTIMATED SOIL PROPERTIES: UNIT WEIGHT (LB/FT^3)	ESTIMATED SOIL PROPERTIES: ANGLE OF INTERNAL FRICTION (DEGREES)	ESTIMATED SOIL PROPERTIES: COHESION (LB/FT^2)	LATERAL EARTH PRESSURE COEFFICIENTS: ACTIVE Ka	LATERAL EARTH PRESSURE COEFFICIENTS: PASSIVE Kp	LATERAL EARTH PRESSURE COEFFICIENTS: AT-REST Ko	COEFFICIENT OF HORIZONTAL SUBGRADE REACTION ($KIPS/FT^3$)	RECOMMENDED ULTIMATE VALUES: SKIN FRICTION (LB/FT^2/VERTICAL FT.)	RECOMMENDED ULTIMATE VALUES: END BEARING ($TONS/FT^2$)
1045.9 TO 1043.9	125	32	0	0.31	3.3	0.47	24	IGNORE	---
1043.9 TO 1038.9	131	0	2,870	1.00	1.0	1.00	70	IGNORE	---
1038.9 TO 1036.9	123	0	2,130	1.00	1.0	1.00	52	1,170	---
1036.9 TO 1028.9	120	0	750	1.00	1.0	1.00	17	400	---
1028.9 TO 1027.4	128	0	4,500	1.00	1.0	1.00	110	2,200	10
1027.4 TO 1021.9	130	41	0	0.21	4.8	0.34	750	2,240	25

SOIL BORINGS PERFORMED ON
JUNE 21, 2012 BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713
(608) 274-7600





STATE PROJECT NUMBER

1206-07-77

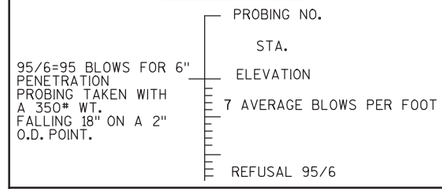
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

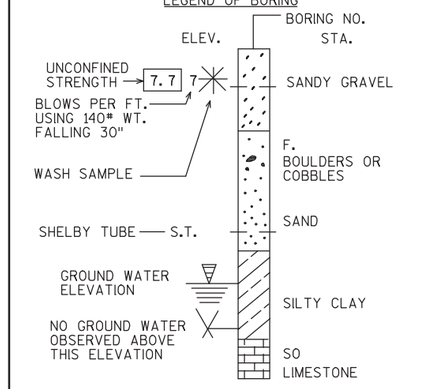
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-383

DRAWN BY DTH | PLANS CK'D. DJW

SUBSURFACE EXPLORATION

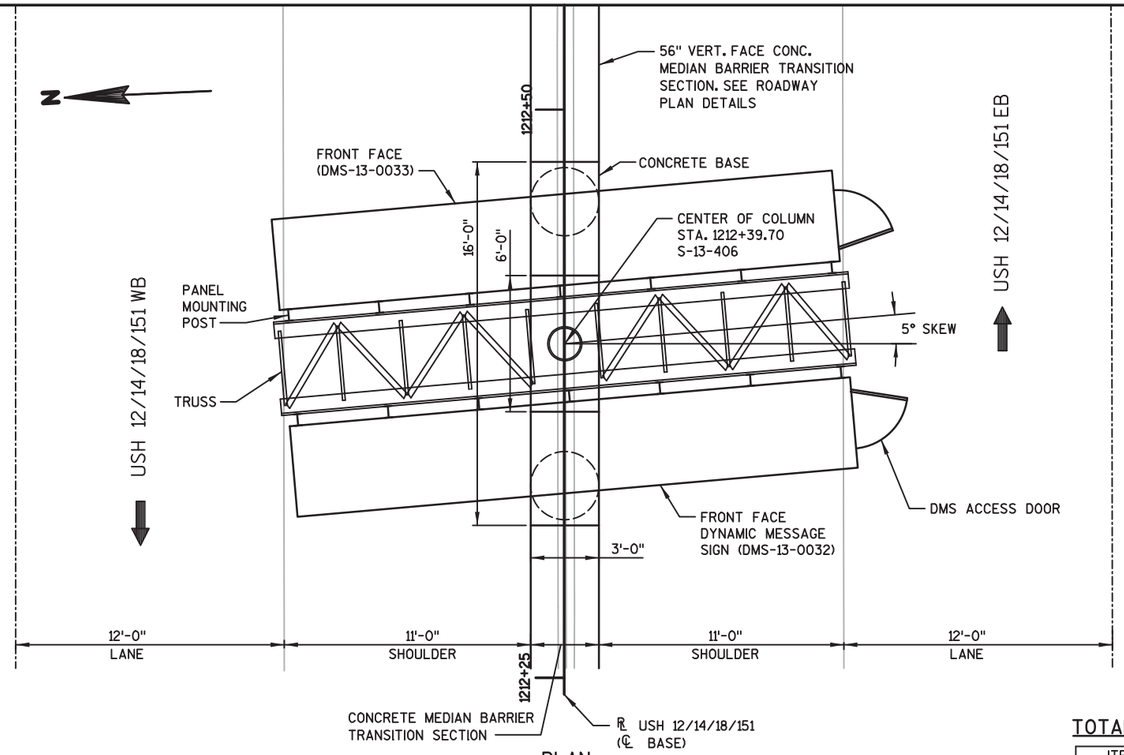
SHEET 11
1121

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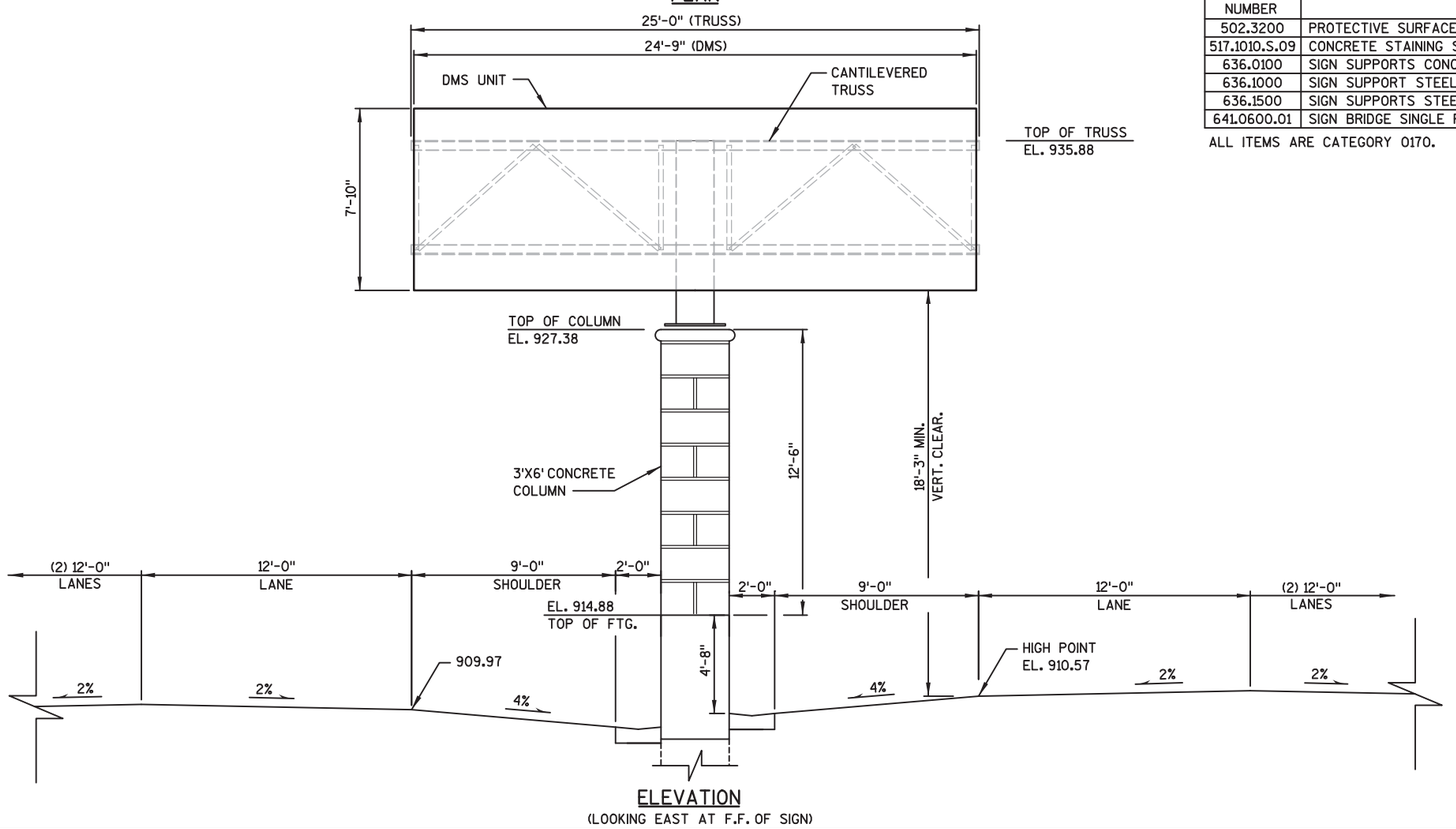
FILE= SCALE =

8

8



PLAN



ELEVATION

(LOOKING EAST AT F.F. OF SIGN)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	30
517.1010.S.09	CONCRETE STAINING S-13-406	SF	225
636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	28
636.1000	SIGN SUPPORT STEEL REINFORCEMENT HS	LB	170
636.1500	SIGN SUPPORTS STEEL COATED REINFORCEMENT HS	LB	5570
641.0600.01	SIGN BRIDGE SINGLE POLE SIGN SUPPORT TWO SIGNS S-13-406	LS	1

ALL ITEMS ARE CATEGORY 0170.

LIST OF DRAWINGS

1. SIGN BRIDGE PLAN & ELEVATION
2. SIGN BRIDGE NOTES & DETAILS
3. COLUMN & FOUNDATION DETAILS
4. STEEL TRUSS DETAILS-1
5. STEEL TRUSS DETAILS-2
6. DMS PANEL MOUNTING DETAILS
7. HANDHOLE DETAILS
8. SUBSURFACE EXPLORATION

STATE PROJECT NUMBER

1206-07-77

MATERIALS DATA:

CONCRETE MASONRY: ..... f'c = 3,500 psi
HIGH STRENGTH BAR
STEEL REINFORCEMENT: ..... fy = 60,000 psi

SIGN BRIDGE
STEEL COLUMN PIPE: ..... fy = 42,000 psi
A.P.I. SPEC. 5L GRADE X42
PLATES, BARS, STRUCTURAL ANGLES: ..... fy = 36,000 psi
A.S.T.M. A709 GRADE 36
STEEL ANCHOR BOLTS: ..... fy = 55,000 psi
A.A.S.H.T.O. M314-90 GRADE 55
HIGH STRENGTH BOLTS: ¾" ϕ A325 GALVANIZED
A.S.T.M. A153, CLASS C..... fy = 92,000 psi
WELD METAL: E70XX

DESIGN DATA

DEAD LOAD - WT. OF DMS UNIT AND SUPPORTING STRUCTURE. NO PROVISIONS HAVE BEEN INCLUDED FOR CATWALK OR LIGHTING.
ICE LOAD - 3 P.S.F. TO 1 FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 90 M.P.H. (3-SECOND GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS.

WIND COMPONENTS	NORMAL	TRANSVERSE
COMBINATION 1	1.0	0.2
COMBINATION 2	0.6	0.3

GROUP LOADS	% OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD + WIND	133
3. DEAD + ICE + ½" (WIND*)	133

*MIN. VALUE OF 25 PSF FOR GROUP 3

SIGN DATA

DMS SIGN PROPERTIES:
SIGN AREA - 194 SF EACH
SIGN WEIGHT - 3400 LBS. EACH

BRIDGE OFFICE CONTACT

BILL DREHER
608-266-8489

CONSULTANT CONTACT

STRAND ASSOCIATES
BRETT OFTEDAHL
608-251-4843

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR — 03/09/13
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE S-13-406

USH 12/14/18/151, - 1,440 FT WEST OF TODD DR.

COUNTY DANE — ~~TOWN~~/CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. AASHTO STANDARD SPEC.

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
BMO	DDR	DTH	DDR

SIGN BRIDGE PLAN & ELEVATION

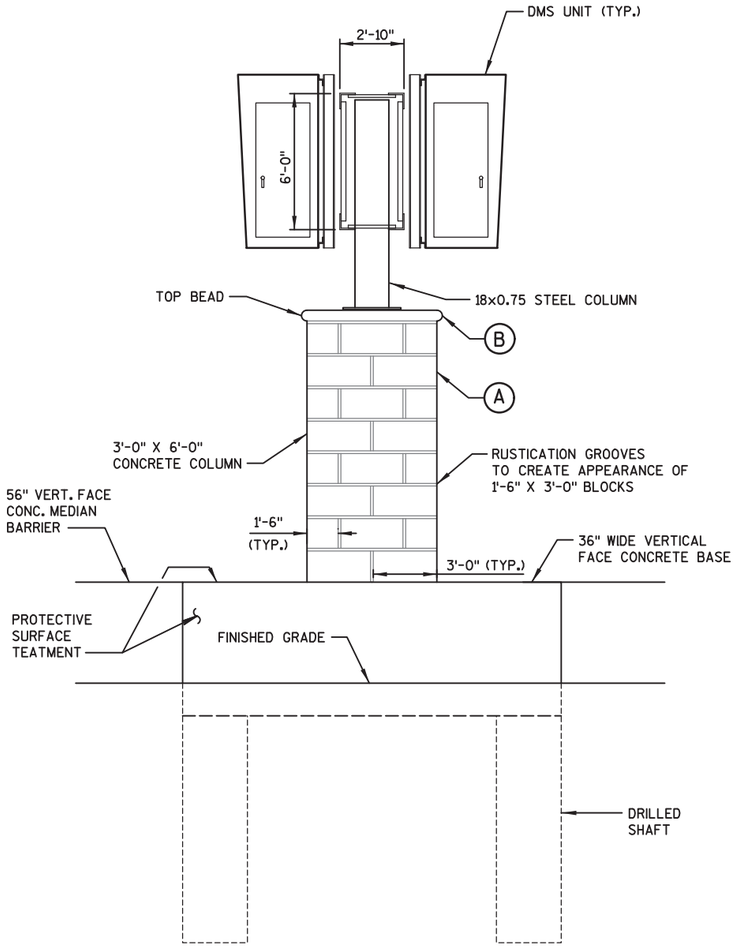
SHEET 1 OF 8
1122

WISCONSIN PROFESSIONAL ENGINEER
BRETT M. OFTEDAHL
E-41123
MADISON
WI
Brett Oftedahl 3/6/2013

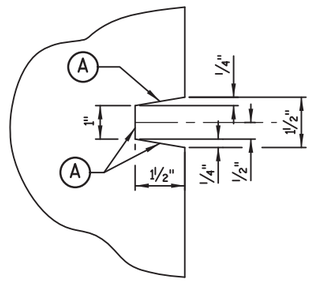
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STATE PROJECT NUMBER

1206-07-77

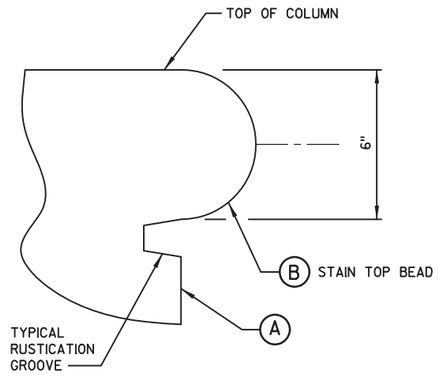


SIDE ELEVATION
(LOOKING NORTH)



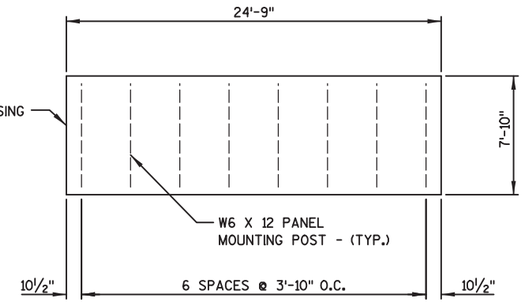
NOTE:
THIS DETAIL TO BE USED FOR
ALL RUSTICATION GROOVES

TYPICAL RUSTICATION GROOVE



TOP BEAD

NOTE:
ACCENT BEAD HAS 3" RADIUS



DMS PANEL MOUNTING POST SPACING DETAIL

NOTES:
POST SPACING MAY BE ADJUSTED AS REQUIRED
IF CONFLICT WITH TRUSS DETAILS IS ENCOUNTERED.

AESTHETIC NOTES

DIMENSIONS FOR RUSTICATION ARE TO CENTER OF JOINT.

PROVIDE RUSTICATION BLOCK WORK APPROXIMATELY 3'-0" WIDE BY 1'-6" HIGH, AS SHOWN AND APPROVED BY THE ENGINEER. RUSTICATIONS AND HALF ROUND (TOP BEAD) ARE INCLUDED WITH BID ITEM "SIGN SUPPORT CONCRETE MASONRY."

(A) CONCRETE STAIN BASE COLOR (COLUMN ABOVE FOUNDATION)
PEARL GRAY
FEDERAL COLOR 26622

(B) CONCRETE STAIN ACCENT COLOR (TOP BEAD)
MEDIUM GRAY
FEDERAL COLOR 36373

SIGN BRIDGE NOTES:

1. DRAWINGS SHALL NOT BE SCALED.
2. ALTERNATE DESIGNS ARE NOT ALLOWED.
3. PROVIDE SIGN BRIDGE IDENTIFICATION PLAQUE, INCLUDED WITH BID TIEM "SIGN BRIDGE SINGLE POLE SIGN SUPPORT TWO SIGNS S-13-406". SEE S.D.D. 12A 4-2.
4. DESIGNED ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" 5TH EDITION.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2½" CLEAR UNLESS DETAILED OTHERWISE.
6. ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED PER ASTM A123.
7. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE AASHTO SPECIFICATION AS STATED IN SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.
8. WELD TEST AS PER AWS D1.1.
9. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ELECTRICAL FEEDS PRIOR TO FABRICATION OF SIGN BRIDGE MEMBERS.
10. HANDHOLES AND GROUND RODS ARE REQUIRED.
11. EXCAVATION REQUIRED TO CONSTRUCT THE CONCRETE TOWER FOUNDATION ABOVE THE DRILLED SHAFTS SHALL BE INCLUDED WITH THE BID ITEM "SIGN SUPPORTS CONCRETE MASONRY".
12. THE LOCATION OF EXISTING OR PROPOSED UTILITIES AS NOTED ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. UTILITY SERVICES ARE NOT SHOWN.
13. PROVIDE A ¾" CHAMFER OR 1" RADIUS ON ALL EXPOSED CONCRETE EDGES.
14. DMS HOUSING SHALL BE CENTERED HORIZONTALLY AND VERTICALLY ON TRUSS.
15. DO NOT GROUT THE SPACE BETWEEN TOP OF COLUMN AND BOTTOM OF BASE PLATE.
16. SHOP DRAWINGS FOR THE STRUCTURE ARE REQUIRED AND FABRICATION SHALL NOT BEGIN UNTIL THESE SHOP DRAWINGS ARE APPROVED.
17. THE STRUCTURE MUST BE ASSEMBLED PRIOR TO GALVANIZING AND PRIOR TO SHIPMENT TO THE SITE TO ASSURE FIT UP.
18. EXCEPT FOR ANCHOR BOLTS, ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16", PRIOR TO GALVANIZING. HOLE DIAMETERS FOR ANCHOR BOLTS SHALL NOT EXCEED THE BOLT DIAMETER PLUS ½".
19. ANCHOR BOLTS SHALL BE PROVIDED WITH TEMPLATES TOP AND BOTTOM TO MAINTAIN VERTICAL ALIGNMENT AND SPACING DURING CONCRETE PLACEMENT. TEMPLATES SHALL NOT BE WELDED TO THE ANCHOR BOLTS.
20. NO CAMBER IS REQUIRED FOR THE TRUSS.
21. STRUCTURAL DESIGN AND DETAILING WAS BASED ON DAKTRONICS MODEL VF-2020-96X336-20-RGB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-406

DRAWN BY DTH | PLANS CK'D. DDR

SIGN BRIDGE NOTES & DETAILS

SHEET 2
1123

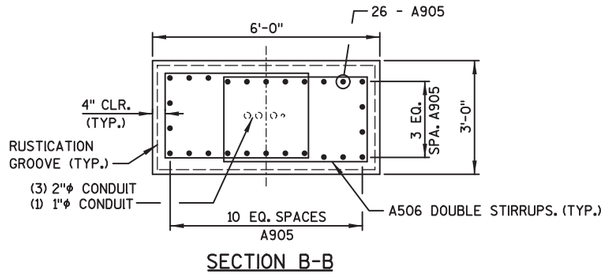
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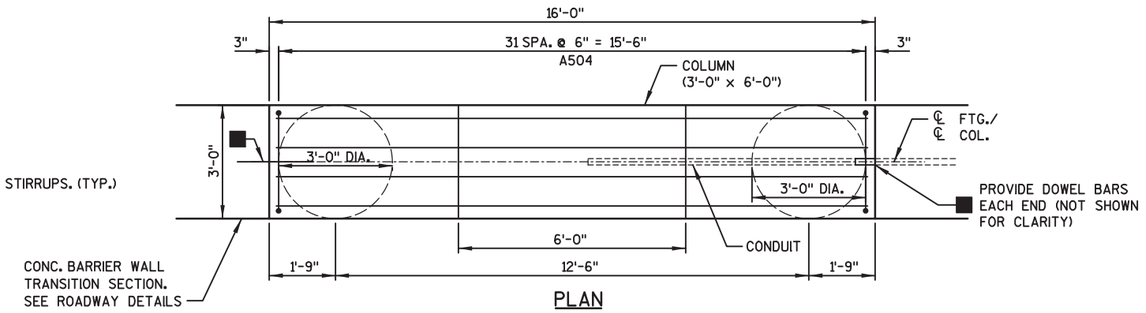
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STATE PROJECT NUMBER

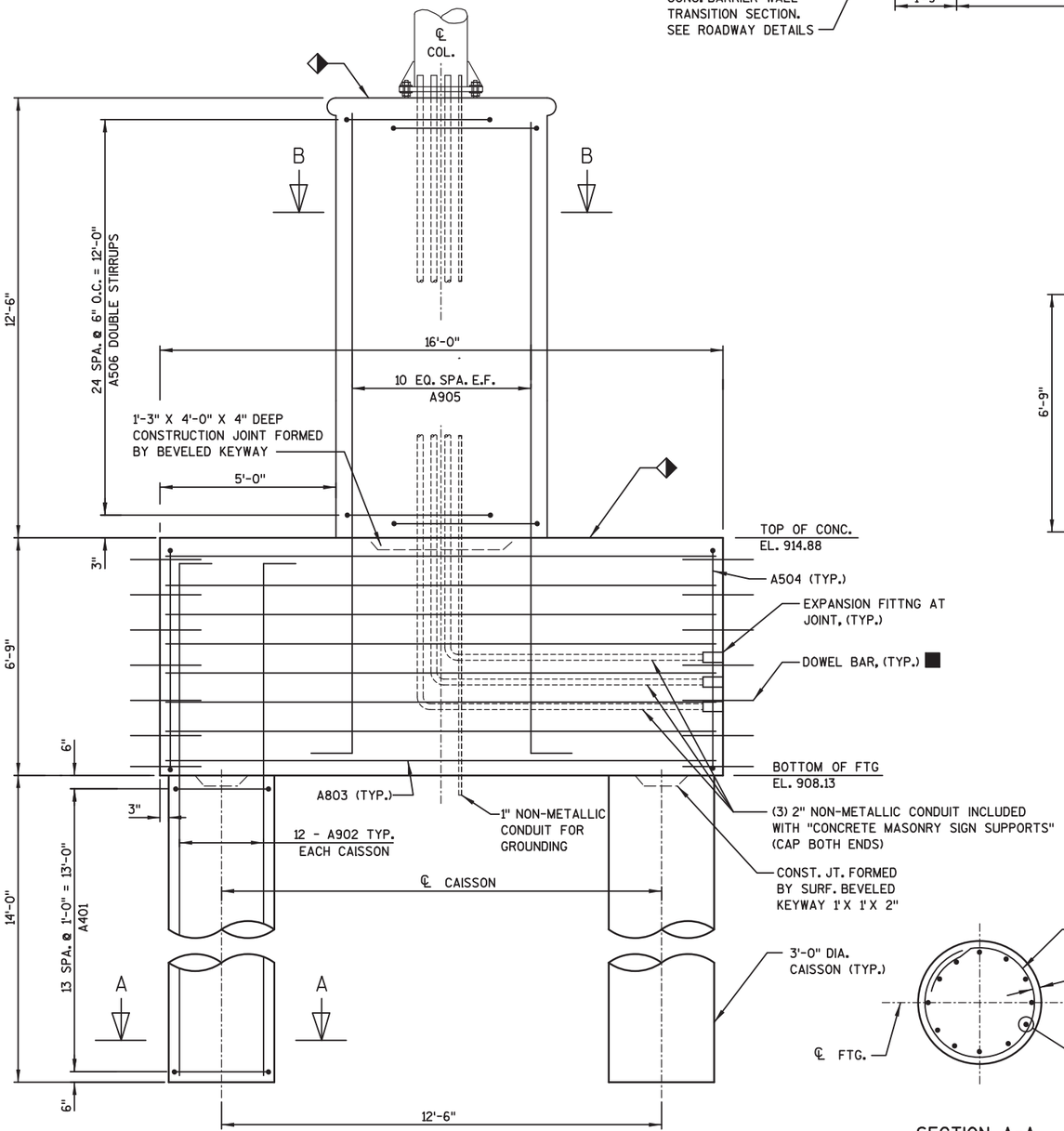
1206-07-77



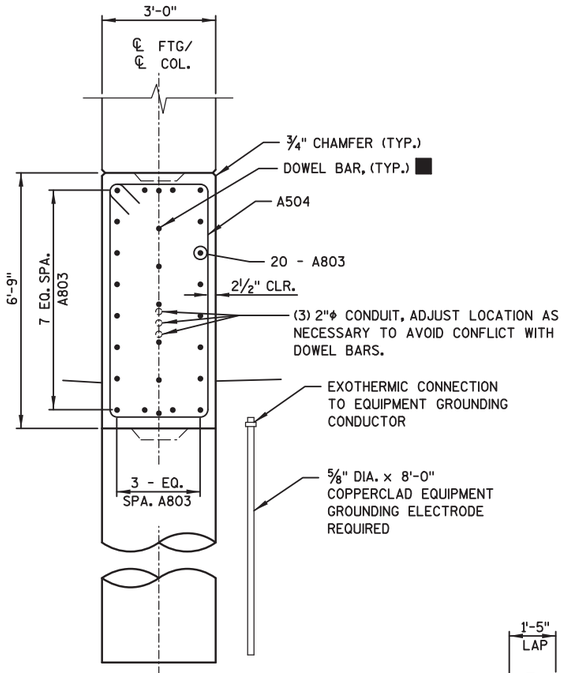
SECTION B-B



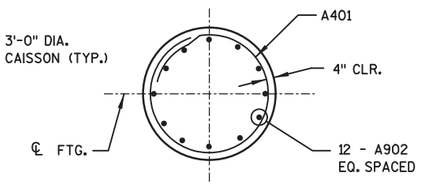
PLAN



ELEVATION



END VIEW



SECTION A-A

NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 4" CLEAR FOR CAISSONS AND 2½" FOR FOUNDATION CAP AND COLUMN AS DETAILED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE FOOTING THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

GROUNDING ROD, CONDUCTOR, AND CONDUIT FOR GROUNDING SHALL BE INCLUDED WITH BID ITEM "SIGN SUPPORT CONCRETE MASONRY".

FOUNDATION DATA

A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS STRUCTURE AND IS AVAILABLE UPON REQUEST.

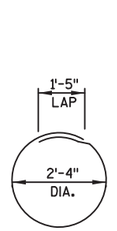
ALLOWABLE SOIL BEARING PRESSURE = 10000 PSF

SOIL PROPERTIES USED FOR DESIGN ARE INCLUDED ON THE SUBSURFACE EXPLORATION SHEET.

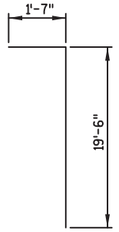
LEGEND

◆ APPLY PROTECTIVE SURFACE TREATMENT TO TOP AND SIDES OF BASE AND TO TOP OF COLUMN. DO NOT APPLY TO SIDES OF COLUMN THAT RECEIVE CONCRETE STAINING.

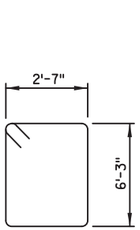
■ 1" DIA. SMOOTH STEEL DOWEL BARS @ 1'-0" O.C., 2'-0" LONG, CENTERED ON JOINT. PROVIDE BOND BREAKER ON PORTION OF DOWEL BAR EXTENDING INTO BARRIER WALL. COST OF DOWEL BARS IS INCLUDED WITH ITEM "SIGN SUPPORTS CONCRETE MASONRY."



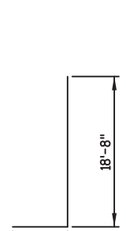
A401



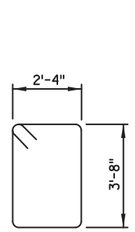
A902



A504



A905



A506

BILL OF BARS

COATED: 5570 LBS.
UNCOATED: 170 LBS.

MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
A401	28	8'-9"	X		CAISSON - HOOPS
A902	24	20'-10"	X	X	CAISSON - VERTICAL
A803	20	15'-6"		X	BASE - LONG.
A504	32	18'-3"	X	X	BASE - STIRRUPS
A905	26	20'-0"	X	X	BASE / COLUMN - VERTICAL
A506	50	12'-7"	X	X	COLUMN - STIRRUPS

BAR DIMENSIONS ARE OUT TO OUT OF BAR, UNLESS OTHERWISE NOTED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-406

DRAWN BY DTH | PLANS CK'D. DDR

COLUMN & FOUNDATION DETAILS

SHEET 3
1124

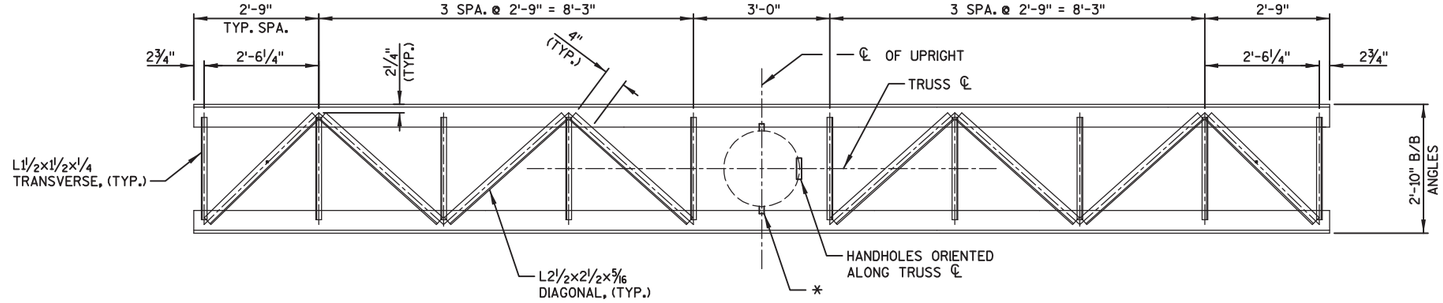
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8

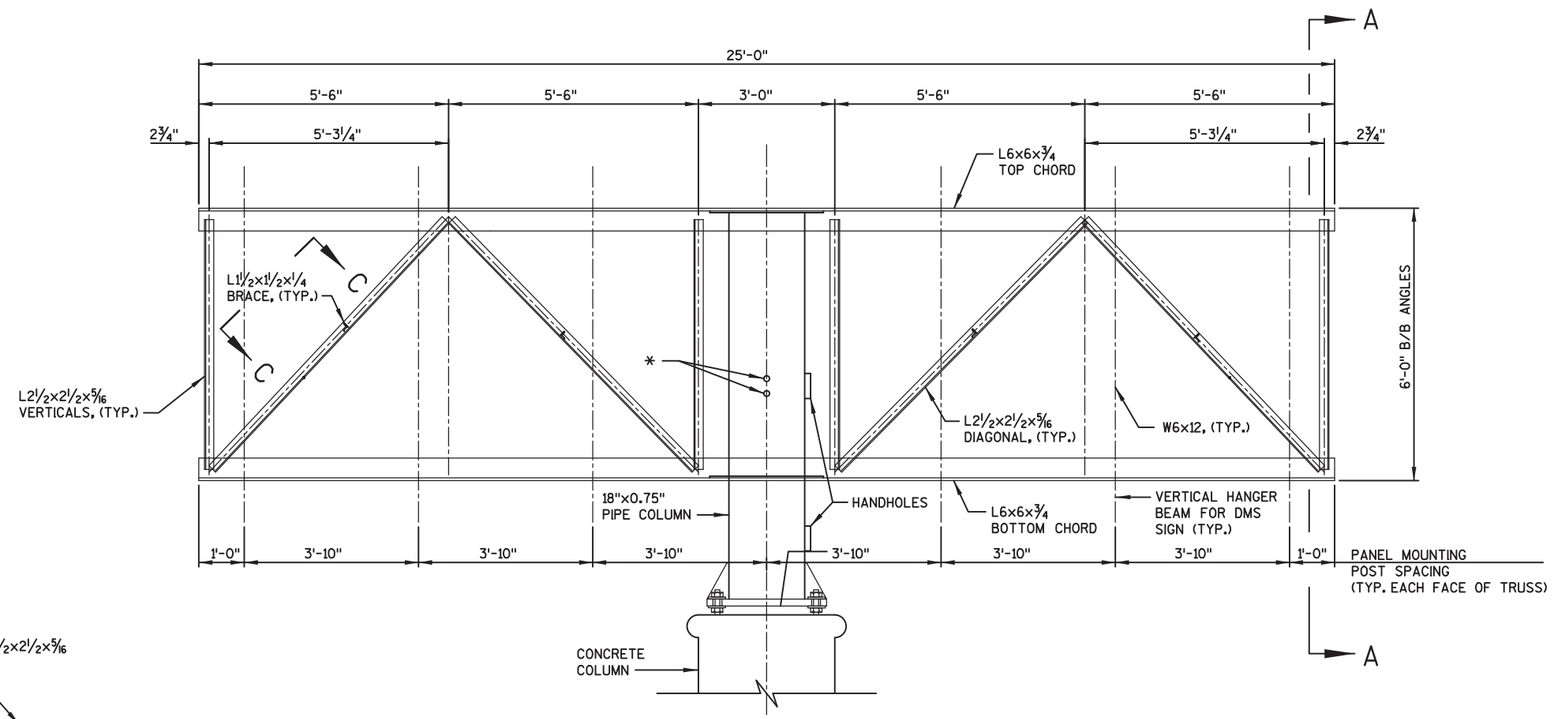
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STATE PROJECT NUMBER

1206-07-77



TOP VIEW



ELEVATION

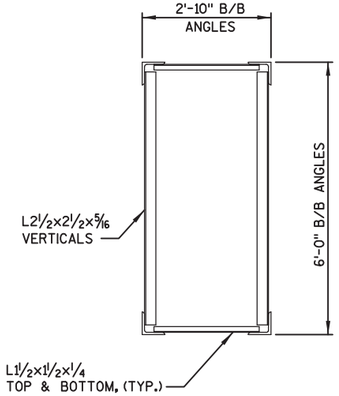
NOTES:

TRUSS AND COLUMN SHALL BE SHOP ASSEMBLED AND GALVANIZED AS A SINGLE UNIT.

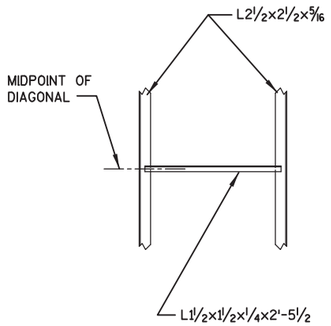
UNLESS OTHERWISE SHOWN, ALL WELDS SHALL BE ¼" FILLET WELDS ALL AROUND.

ALL VIEWS OF THE TRUSSES ARE DRAWN FROM THE INSIDE OF THE TRUSS LOOKING OUT.

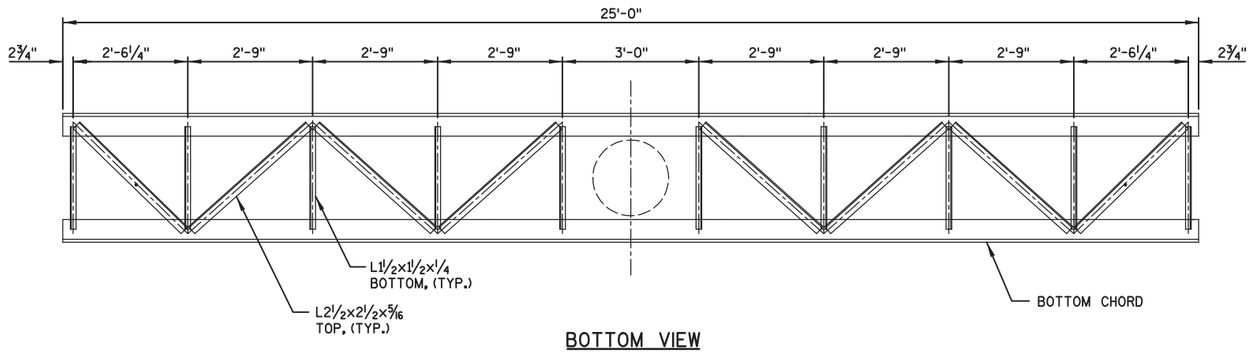
SEE DRAWING 5 FOR POST CONNECTION DETAILS.



SECTION A-A



SECTION C-C



BOTTOM VIEW

LEGEND

* (2) 1½" CONDUIT COUPLINGS IN STEEL COLUMN. TYP. EACH SIDE OF UPPER HANDHOLE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-406

DRAWN BY DTH | PLANS CK'D. DDR

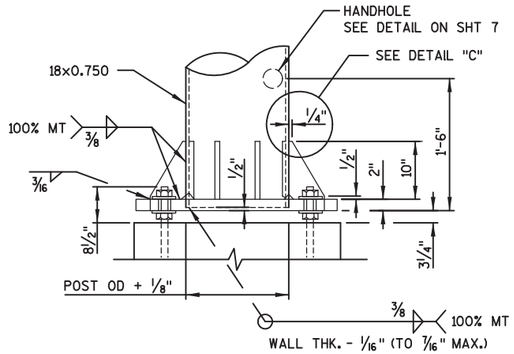
STEEL TRUSS DETAILS - 1

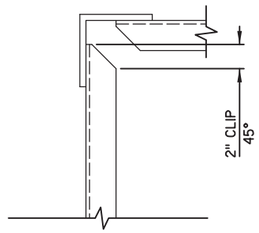
SHEET 4
1125

8

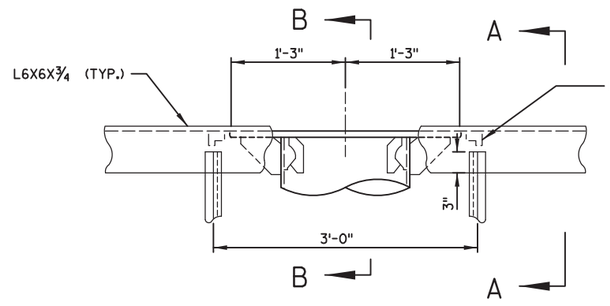
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VIEW A-A



STATE PROJECT NUMBER

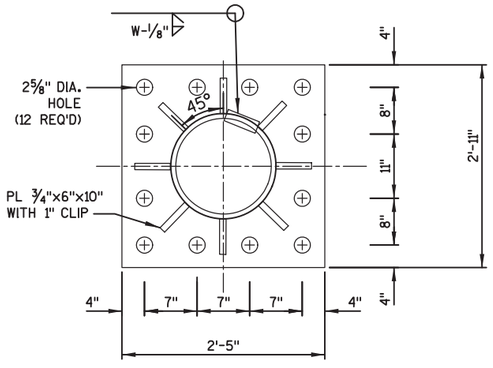
1206-07-77

NOTES

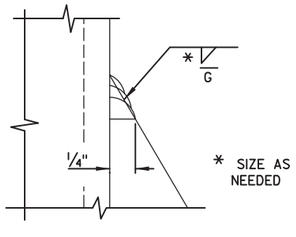
ANCHOR BOLTS SHALL BE PROVIDED WITH TEMPLATES TOP AND BOTTOM TO MAINTAIN VERTICAL ALIGNMENT AND SPACING DURING CONCRETE PLACEMENT. TEMPLATES MAY NOT BE WELDED TO THE ANCHOR BOLTS.

HANDHOLE COVERS SHALL BE GALVANIZED SEPARATELY.

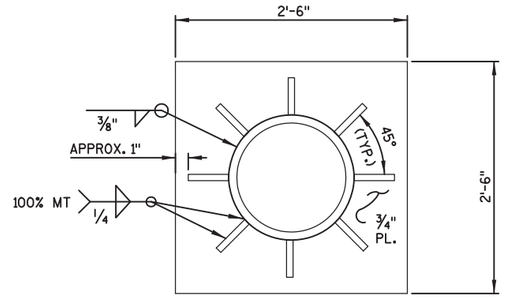
TORQUE ANCHOR BOLTS TO 450 FT-LBS.



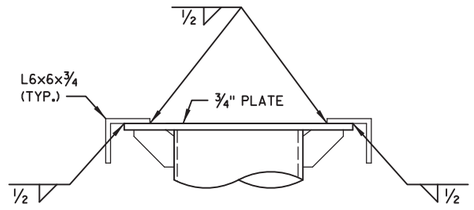
PLAN & ELEVATION - BASE PLATE TYPE A



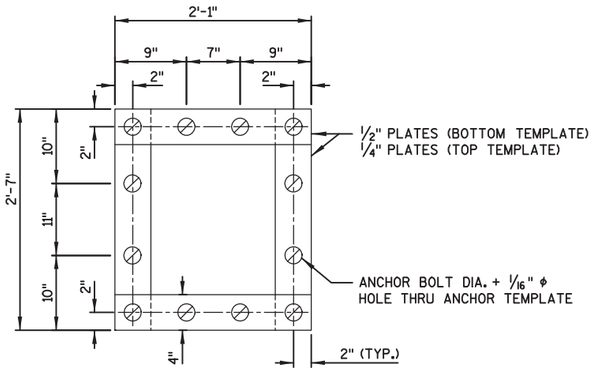
DETAIL "C"



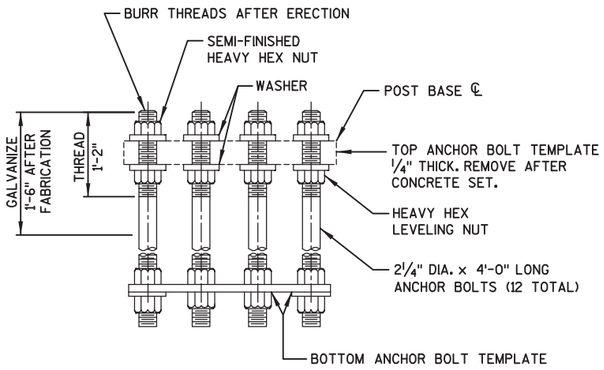
UPPER JUNCTION



VIEW B-B

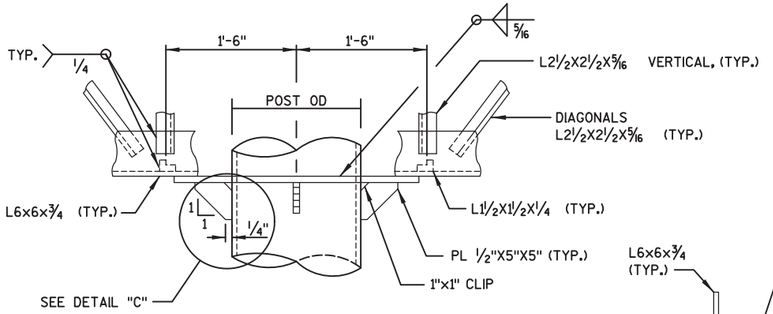


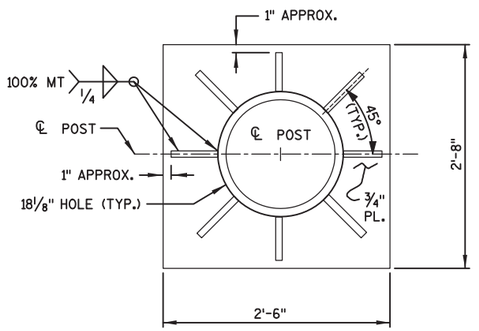
ANCHOR BOLT TEMPLATE PLAN



ELEVATION

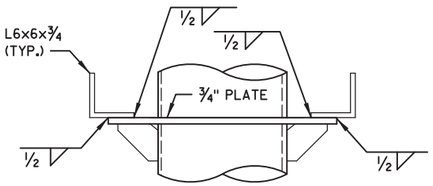
ANCHOR BOLT DETAILS





LOWER JUNCTION

BUTTERFLY TRUSS



VIEW C-C

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-406

DRAWN BY DTH | PLANS CK'D. DDR

STEEL TRUSS DETAILS - 2

SHEET 5
1126

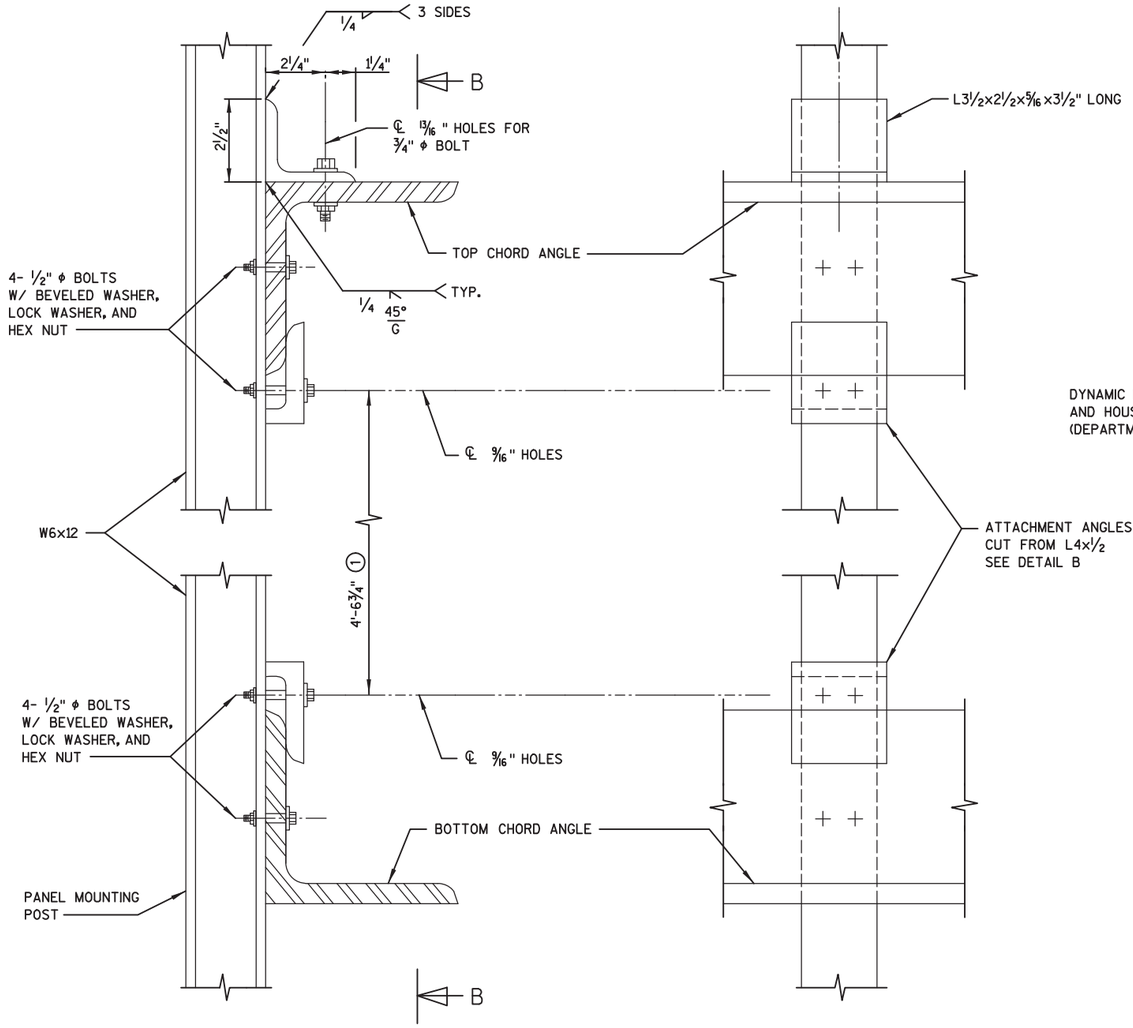
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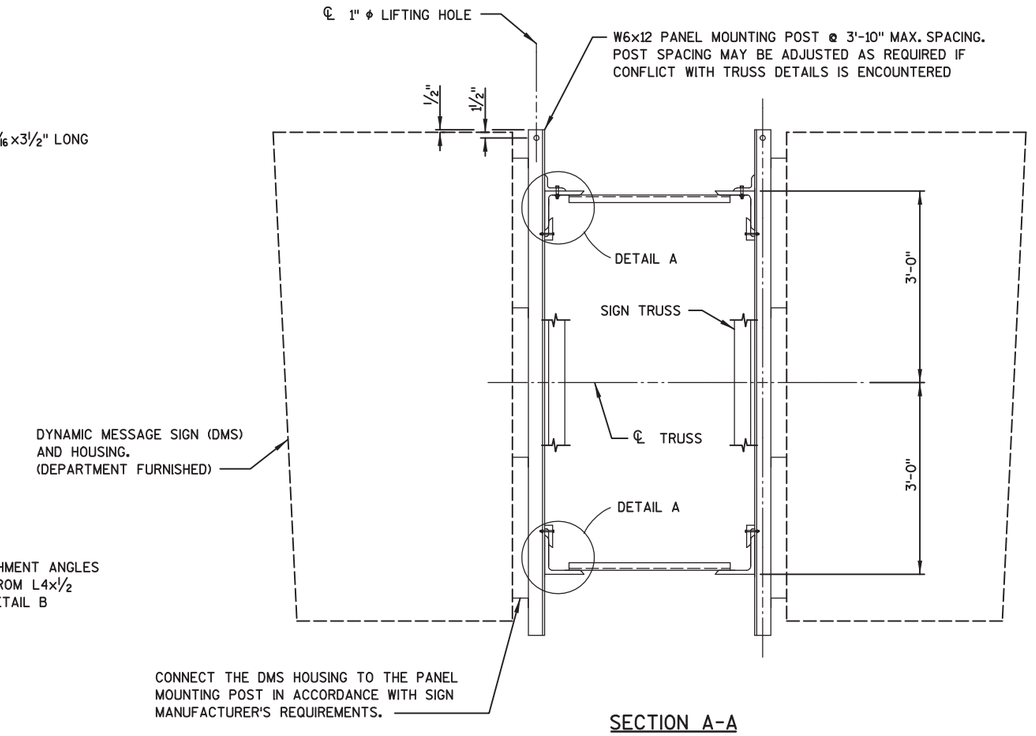
STATE PROJECT NUMBER

1206-07-77



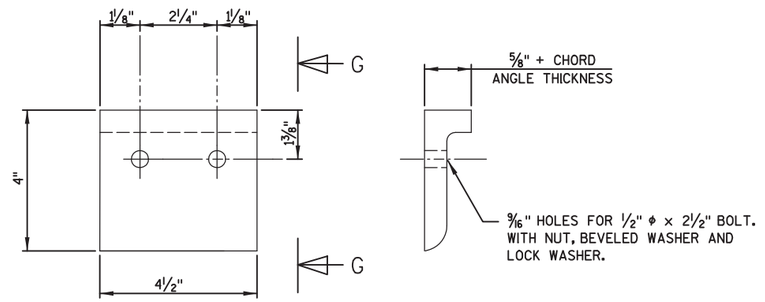
DETAIL A

SECTION B-B



SECTION A-A

SECTION THRU TRUSS



DETAIL B

SECTION G-G

NOTES:

(1) (TRUSS DEPTH) - (TOP & BOTTOM CHORD < LEGS) - 1 1/4"

W6x12 PANEL MOUNTING POSTS AND 3 1/2x2 1/2 ANGLES WELDED TO THE POSTS SHALL BE SUPPLIED WITH THE TRUSS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-406

DRAWN BY DTH | PLANS CK'D. DDR

DMS PANEL MOUNTING DETAILS

SHEET 6
1127

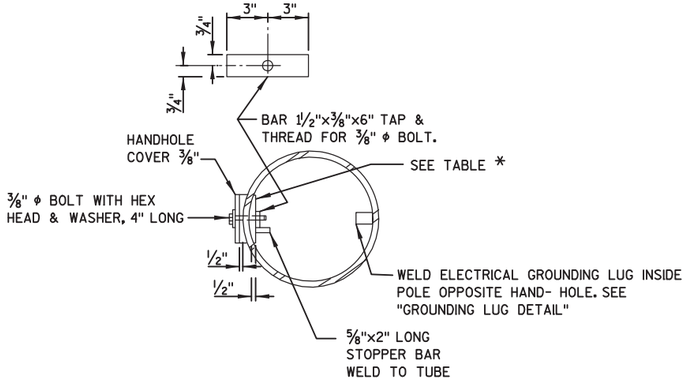
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8

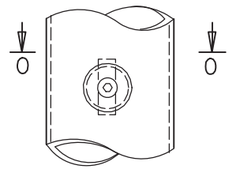
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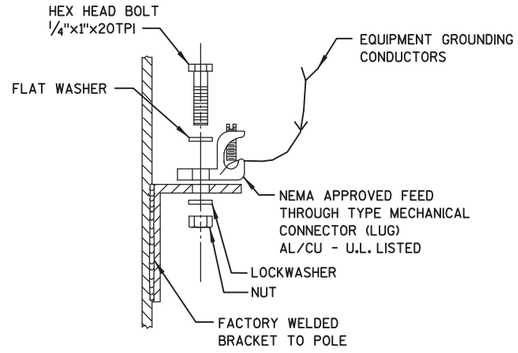
1206-07-77



SECTION 'O'

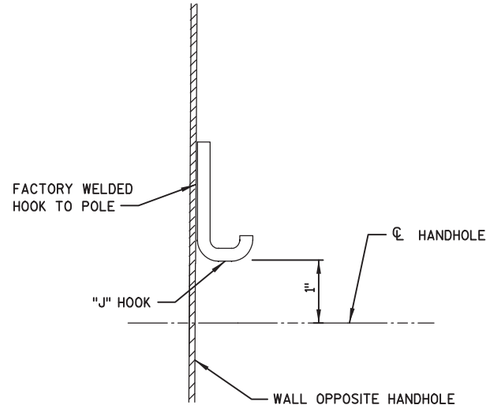


HANDHOLE DETAILS



GROUND LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



TYPICAL "J" HOOK LOCATION

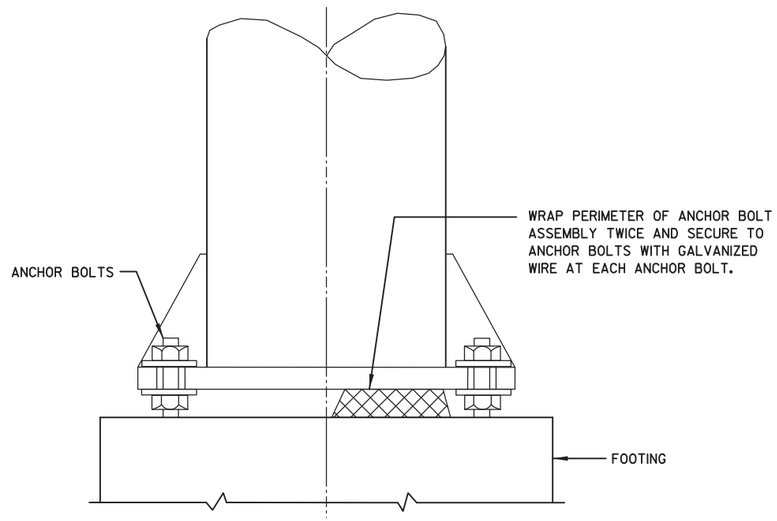
THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.

HANDHOLE NOTES

HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGIONAL TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL DETAIL PLAN SHEETS.

*

UPRIGHT DIAM. SIZE	HANDHOLE PIPE O.D. x MIN. THK.
UP TO AND INCLD. 16" x .375"	5.562" x .500"
GREATER THAN 16" x .375" TO AND INCLD. 24" x .562"	6.625" x .562"



RODENT SCREEN

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-406

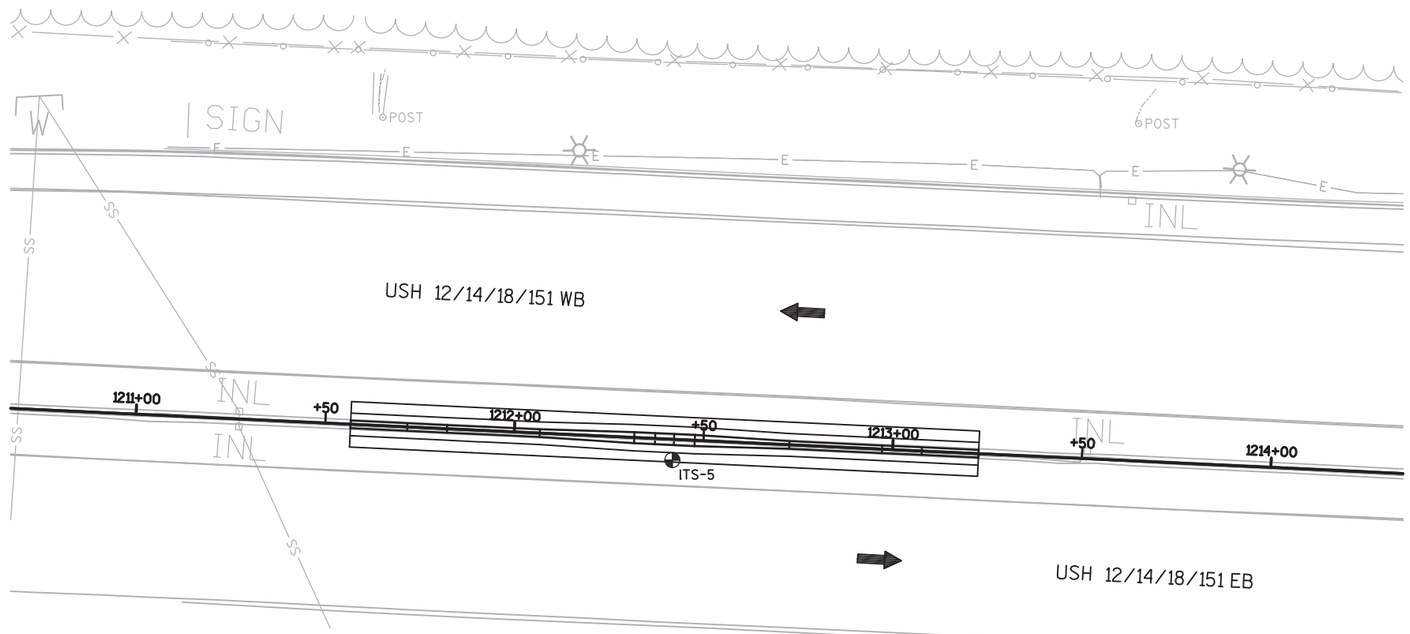
DRAWN BY DTH | PLANS CK'D. DDR

HANDHOLE DETAILS

SHEET 7
1128

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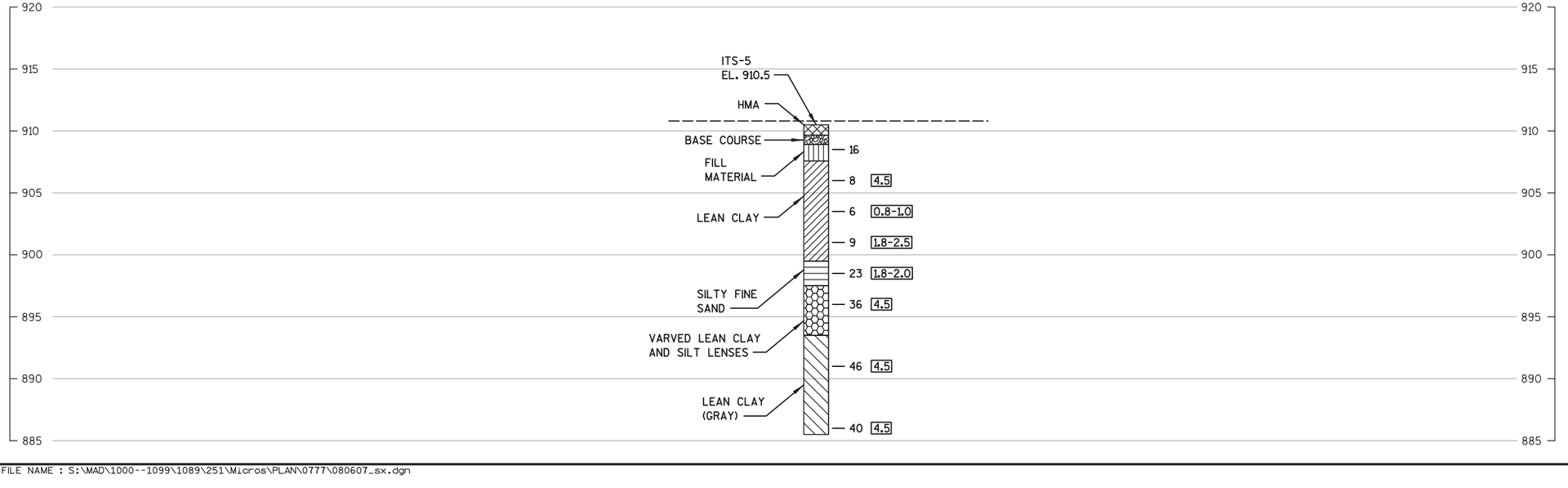
SOIL BORING PERFORMED ON
SEPTEMBER 5, 2012 BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713
(608) 274-7600



N

SOIL PROPERTIES - BORING ITS-5

	ESTIMATED SOIL PROPERTIES			LATERAL EARTH PRESSURE COEFFICIENTS				RECOMMENDED ULTIMATE VALUES	
ELEVATION (FEET)	UNIT WEIGHT (LB/FT^3)	ANGLE OF INTERNAL FRICTION (DEGREES)	COHESION (LB/FT^2)	ACTIVE Ka	PASSIVE Kp	AT-REST Ko	COEFFICIENT OF HORIZONTAL SUBGRADE REACTION ($KIPS/FT^3$)	SKIN FRICTION (LB/FT^2/VERTICAL FT.)	END BEARING ($TONS/FT^2$)
908.9 TO 907.6	125	37	0	0.25	4.0	0.40	23	IGNORE	---
907.6 TO 905.5	130.3	0	4,500	1.00	1.0	1.00	95	IGNORE	---
905.5 TO 902.5	126.1	0	1,275	1.00	1.0	1.00	25	700	---
902.5 TO 899.5	128	0	2,100	1.00	1.0	1.00	44	1,160	4
899.5 TO 897.5	128	36	0	0.26	3.9	0.41	175	1,460	10
897.5 TO 893.5	131.1	15	4,000	0.59	1.7	0.74	84	2,040	10
893.5 TO 885.5	139.3	0	4,500	1.00	1.0	1.00	95	2,210	15



STATE PROJECT NUMBER

1206-07-77

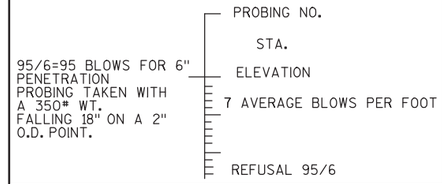
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

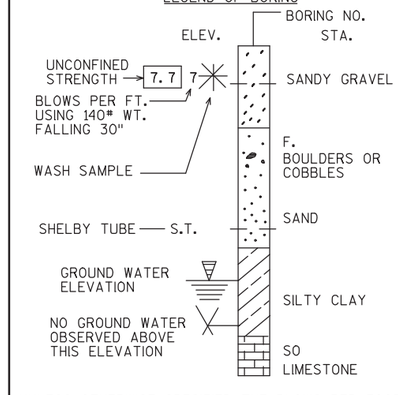
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-406

DRAWN BY DTH | PLANS CK'D. DDR

SUBSURFACE EXPLORATION

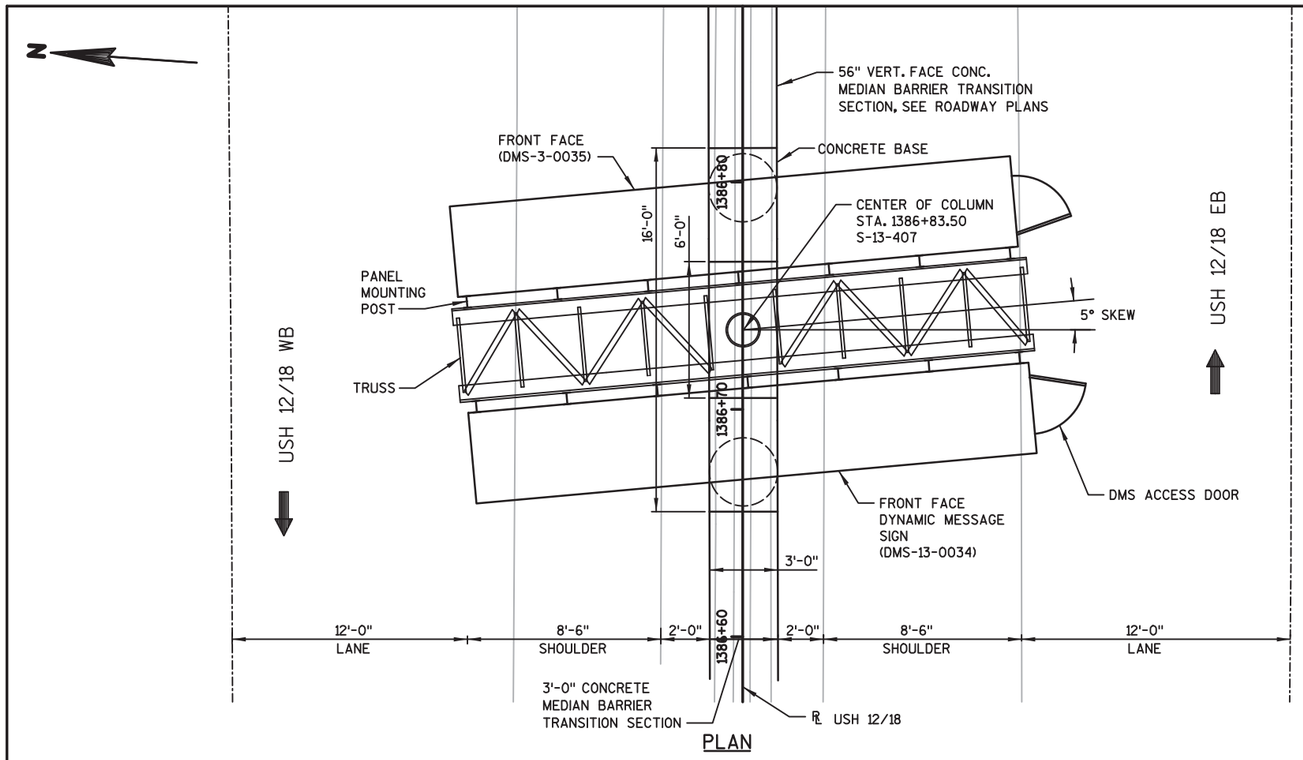
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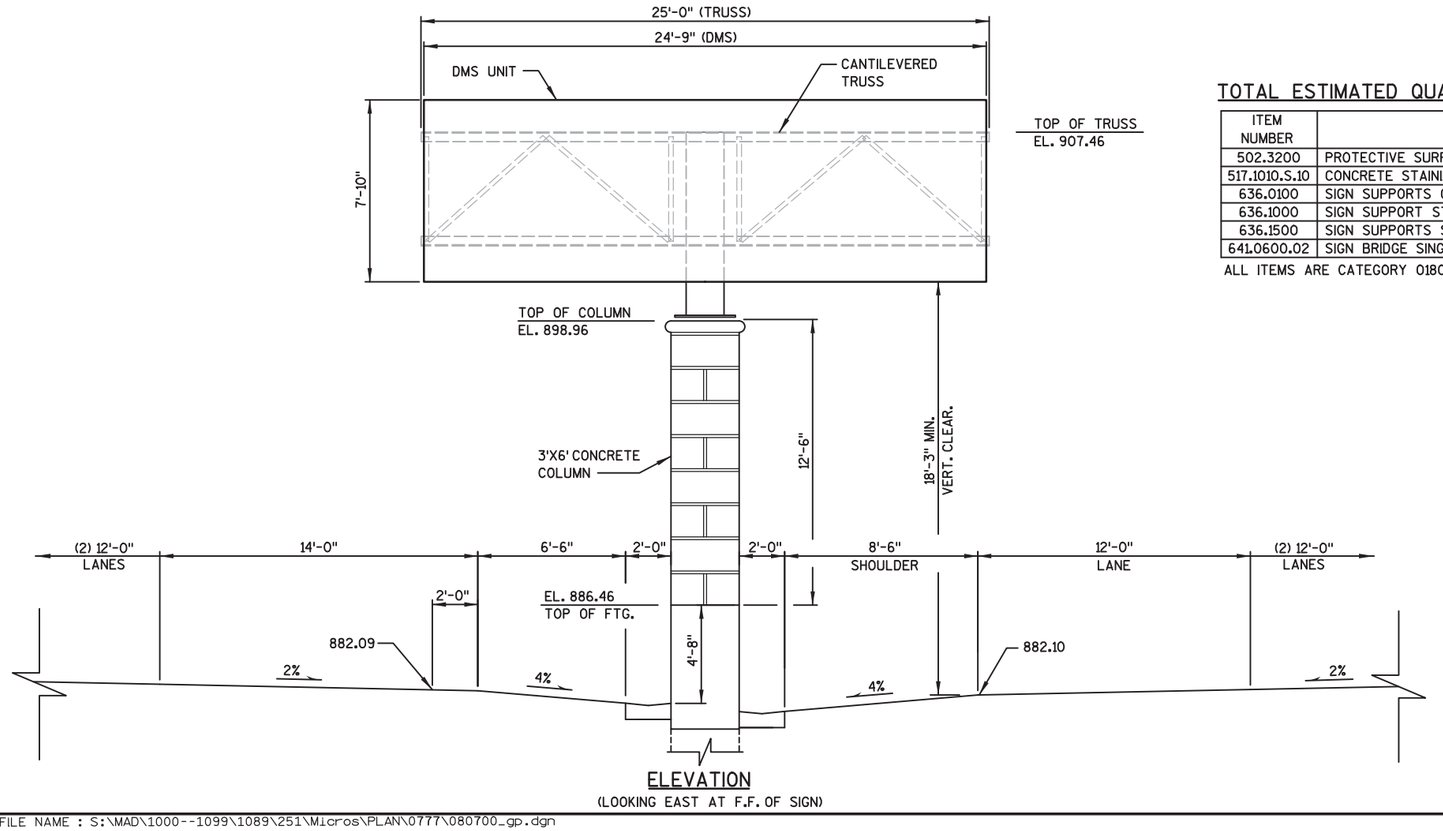
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PLAN



ELEVATION

(LOOKING EAST AT F.F. OF SIGN)

LIST OF DRAWINGS

1. SIGN BRIDGE PLAN & ELEVATION
2. SIGN BRIDGE NOTES & DETAILS
3. COLUMN & FOUNDATION DETAILS
4. STEEL TRUSS DETAILS-1
5. STEEL TRUSS DETAILS-2
6. DMS PANEL MOUNTING DETAILS
7. HANDHOLE DETAILS
8. SUBSURFACE EXPLORATION

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	30
517.1010.S.10	CONCRETE STAINING S-13-407	SF	225
636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	33
636.1000	SIGN SUPPORT STEEL REINFORCEMENT HS	LB	290
636.1500	SIGN SUPPORTS STEEL COATED REINFORCEMENT HS	LB	6380
641.0600.02	SIGN BRIDGE SINGLE POLE SIGN SUPPORT TWO SIGNS S-13-407	LS	1

ALL ITEMS ARE CATEGORY 0180.

STATE PROJECT NUMBER

1206-07-77

MATERIALS DATA:

CONCRETE MASONRY:
HIGH STRENGTH BAR ..... f'c = 3,500 psi
STEEL REINFORCEMENT:
..... fy = 60,000 psi

SIGN BRIDGE
STEEL COLUMN PIPE: ..... fy = 42,000 psi
A.P.I. SPEC. 5L GRADE X42
PLATES, BARS, STRUCTURAL ANGLES: ..... fy = 36,000 psi
A.S.T.M. A709 GRADE 36
STEEL ANCHOR BOLTS: ..... fy = 55,000 psi
A.A.S.H.T.O. M314-90 GRADE 55
HIGH STRENGTH BOLTS: ¾" ϕ A325 GALVANIZED
A.S.T.M. A153, CLASS C ..... fy = 92,000 psi
WELD METAL: E70XX

DESIGN DATA

DEAD LOAD - WT. OF DMS UNIT AND SUPPORTING STRUCTURE. NO PROVISIONS HAVE BEEN INCLUDED FOR CATWALK OR LIGHTING.
ICE LOAD - 3 P.S.F. TO 1 FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 90 M.P.H. (3-SECOND GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS.

WIND COMPONENTS	NORMAL	TRANSVERSE
COMBINATION 1	1.0	0.2
COMBINATION 2	0.6	0.3

GROUP LOADS	% OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD + WIND	133
3. DEAD + ICE + ½" (WIND*)	133

*MIN. VALUE OF 25 PSF FOR GROUP 3

SIGN DATA

DMS SIGN PROPERTIES:
SIGN AREA - 194 SF EACH
SIGN WEIGHT - 3400 LBS. EACH

BRIDGE OFFICE CONTACT

BILL DREHER
608-266-8489

CONSULTANT CONTACT

STRAND ASSOCIATES
BRETT OFTEDAHL
608-251-4843

WISCONSIN
BRETT M. OFTEDAHL
E-41123
MADISON
WI
PROFESSIONAL ENGINEER
Brett Oftedahl
3/6/2013

NO.	DATE	REVISION	BY

STRAND ASSOCIATES®
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608)-251-4843
(608) 251-8655 FAX
WWW.STRAND.COM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher KAR 03/09/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE S-13-407

USH 12/18, 1,355 FT EAST OF JOHN NOLEN DR.

COUNTY DANE | ~~TOWN/~~CITY/~~VILLAGE~~ MADISON

DESIGN SPEC. AASHTO STANDARD SPEC.

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
BMO	DDR	DTH	DDR

SIGN BRIDGE PLAN & ELEVATION

SHEET 1 OF 8

1130

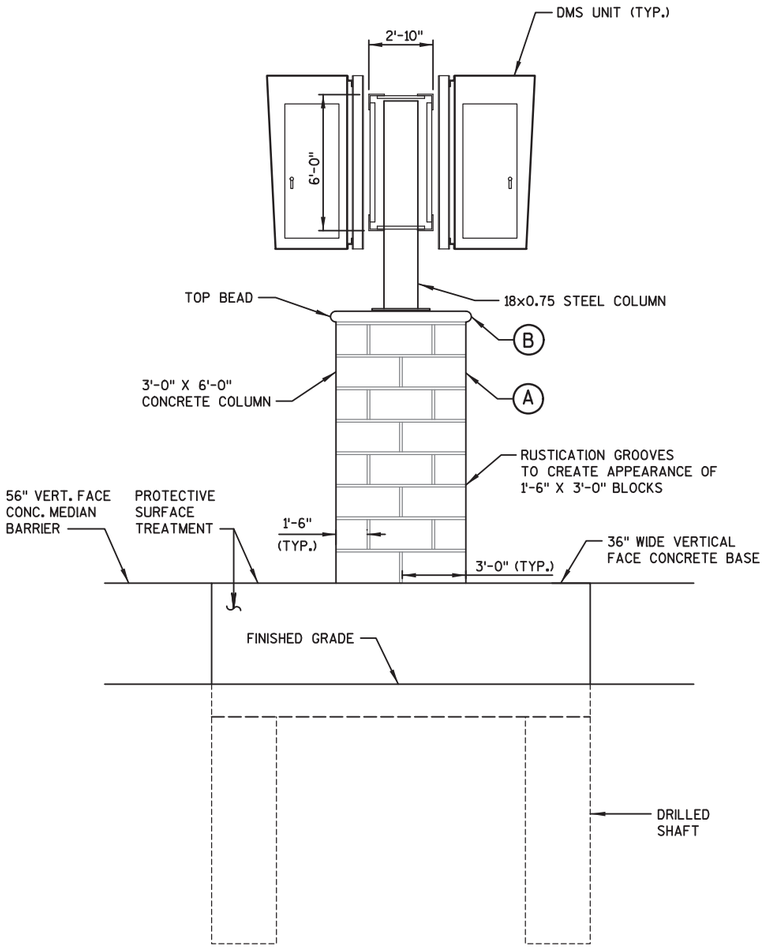
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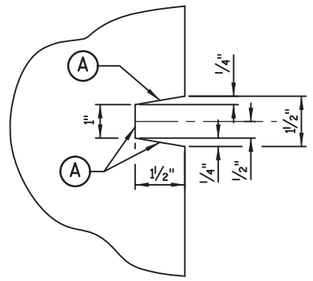
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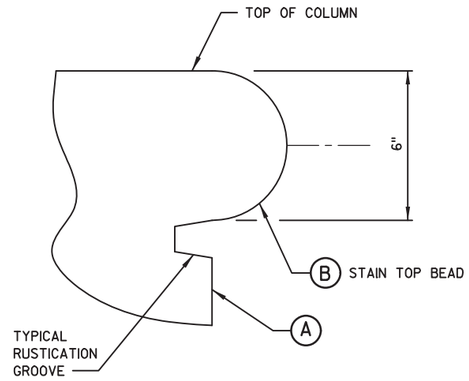


SIDE ELEVATION
(LOOKING NORTH)



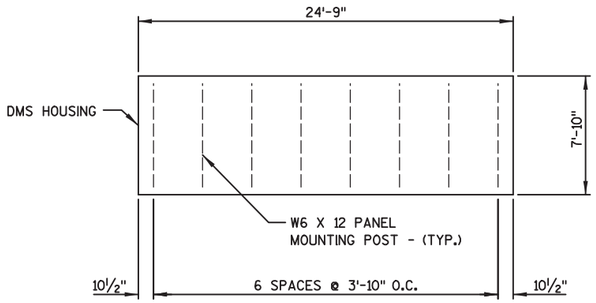
NOTE:
THIS DETAIL TO BE USED FOR
ALL RUSTICATION GROOVES

TYPICAL RUSTICATION GROOVE



TOP BEAD

NOTE:
ACCENT BEAD HAS 3" RADIUS



DMS PANEL MOUNTING POST SPACING DETAIL

NOTES:
POST SPACING MAY BE ADJUSTED AS REQUIRED
IF CONFLICT WITH TRUSS DETAILS IS ENCOUNTERED.

AESTHETIC NOTES

DIMENSIONS FOR RUSTICATION ARE TO CENTER OF JOINT.

PROVIDE RUSTICATION BLOCK WORK APPROXIMATELY 3'-0" WIDE BY 1'-6" HIGH, AS SHOWN AND APPROVED BY THE ENGINEER. RUSTICATIONS AND HALF ROUND (TOP BEAD) ARE INCLUDED WITH BID ITEM "SIGN SUPPORTS CONCRETE MASONRY".

(A) CONCRETE STAIN BASE COLOR (COLUMN ABOVE FOUNDATION)
PEARL GRAY
FEDERAL COLOR 26622

(B) CONCRETE STAIN ACCENT COLOR (TOP BEAD)
MEDIUM GRAY
FEDERAL COLOR 36373

SIGN BRIDGE NOTES:

1. DRAWINGS SHALL NOT BE SCALED.
2. ALTERNATE DESIGNS ARE NOT ALLOWED.
3. PROVIDE SIGN BRIDGE IDENTIFICATION PLAQUE, INCLUDED WITH BID ITEM "SIGN BRIDGE SINGLE POLE SIGN SUPPORT TWO SIGNS S-13-407." SEE S.D.D. 12A4-2.
4. DESIGNED ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" 5TH EDITION.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2½" CLEAR UNLESS DETAILED OTHERWISE.
6. ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED PER ASTM A123.
7. ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE AASHTO SPECIFICATION AS STATED IN SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.
8. WELD TEST AS PER AWS D1.1.
9. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ELECTRICAL FEEDS PRIOR TO FABRICATION OF SIGN BRIDGE MEMBERS.
10. HANDHOLES AND GROUND RODS ARE REQUIRED.
11. EXCAVATION REQUIRED TO CONSTRUCT THE CONCRETE TOWER FOUNDATION ABOVE THE DRILLED SHAFTS SHALL BE INCLUDED WITH THE BID ITEM "SIGN SUPPORTS CONCRETE MASONRY".
12. THE LOCATION OF EXISTING OR PROPOSED UTILITIES AS NOTED ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. UTILITY SERVICES ARE NOT SHOWN.
13. PROVIDE A ¾" CHAMFER OR 1" RADIUS ON ALL EXPOSED CONCRETE EDGES.
14. DMS HOUSING SHALL BE CENTERED HORIZONTALLY AND VERTICALLY ON TRUSS.
15. DO NOT GROUT THE SPACE BETWEEN TOP OF COLUMN AND BOTTOM OF BASE PLATE.
16. SHOP DRAWINGS FOR THE STRUCTURE ARE REQUIRED AND FABRICATION SHALL NOT BEGIN UNTIL THESE SHOP DRAWINGS ARE APPROVED.
17. THE STRUCTURE MUST BE ASSEMBLED PRIOR TO GALVANIZING AND PRIOR TO SHIPMENT TO THE SITE TO ASSURE FIT UP.
18. EXCEPT FOR ANCHOR BOLTS, ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16", PRIOR TO GALVANIZING. HOLE DIAMETERS FOR ANCHOR BOLTS SHALL NOT EXCEED THE BOLT DIAMETER PLUS ½".
19. ANCHOR BOLTS SHALL BE PROVIDED WITH TEMPLATES TOP AND BOTTOM TO MAINTAIN VERTICAL ALIGNMENT AND SPACING DURING CONCRETE PLACEMENT. TEMPLATES SHALL NOT BE WELDED TO THE ANCHOR BOLTS.
20. NO CAMBER IS REQUIRED FOR THE TRUSS.
21. STRUCTURAL DESIGN AND DETAILING WAS BASED ON DAKTRONICS MODEL VF-2020-96X336-20-RGB.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-407

DRAWN BY DTH | PLANS CK'D. DDR

SIGN BRIDGE NOTES & DETAILS

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1131

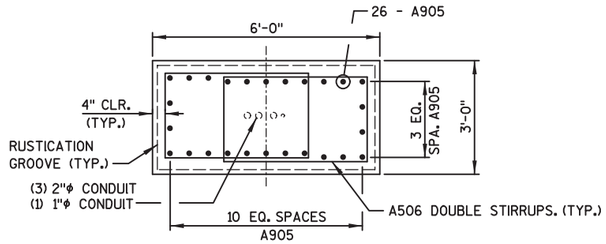
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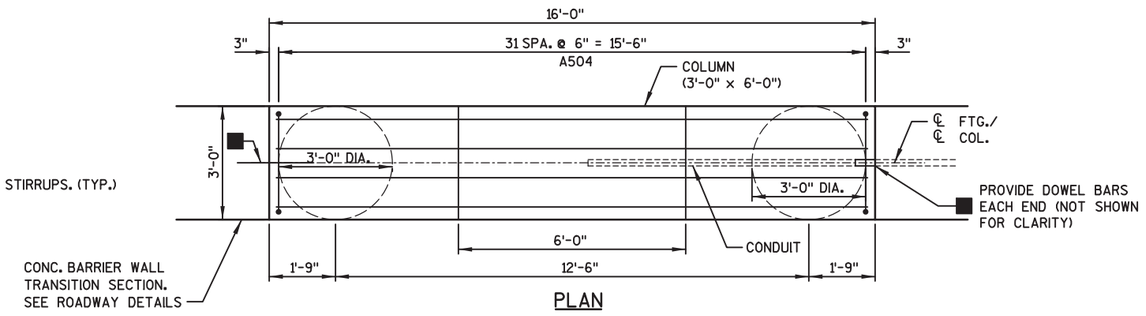
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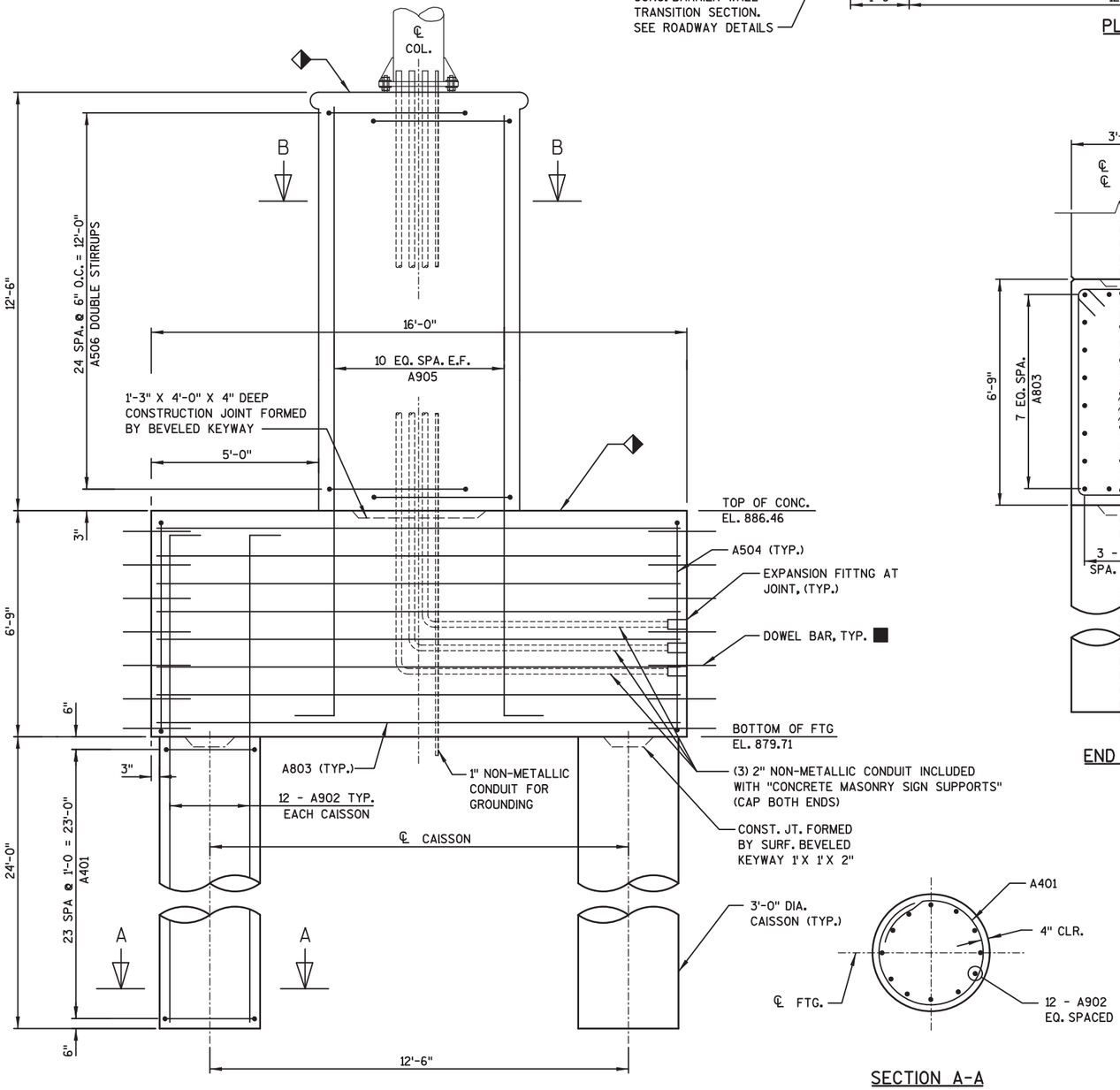
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SECTION B-B

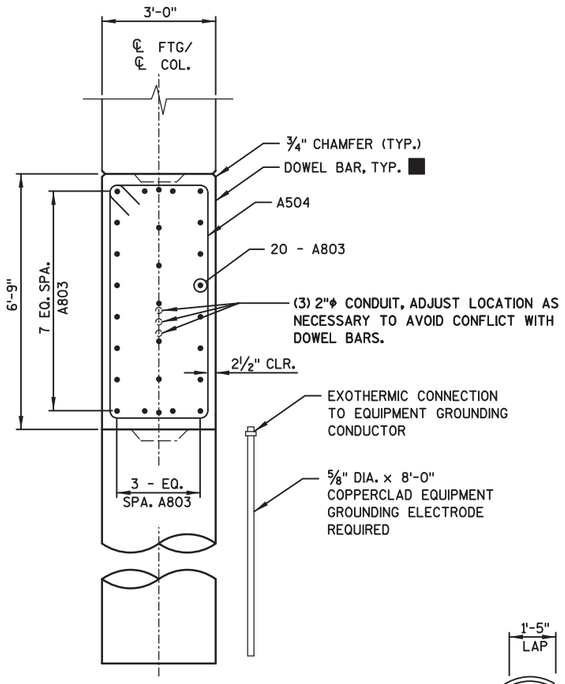


PLAN



ELEVATION

SECTION A-A



END VIEW

NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 4" CLEAR FOR CAISSONS AND 2½" FOR FOUNDATION CAP AND COLUMN AS DETAILED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE FOOTING THROUGH A 1-INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

GROUNDING ROD, CONDUCTOR, AND CONDUIT FOR GROUNDING SHALL BE INCLUDED WITH BID ITEM "SIGN SUPPORT CONCRETE MASONRY".

FOUNDATION DATA

A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS STRUCTURE AND IS AVAILABLE UPON REQUEST.

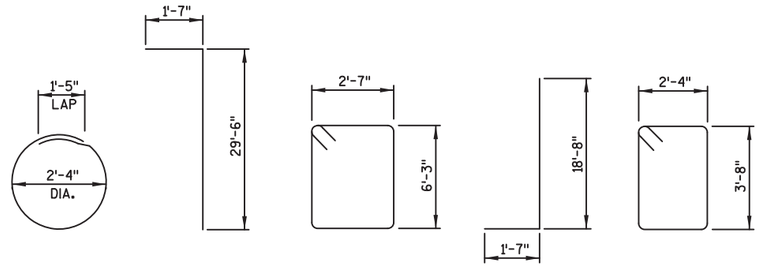
ALLOWABLE SOIL BEARING PRESSURE = 10000 PSF

SOIL PROPERTIES USED FOR DESIGN ARE INCLUDED ON THE SUBSURFACE EXPLORATION SHEET.

LEGEND

◆ APPLY PROTECTIVE SURFACE TREATMENT TO TOP AND EXPOSED SIDES OF BASE AND TO TOP OF COLUMN. DO NOT APPLY TO SIDES OF COLUMN THAT RECEIVE CONCRETE STAINING.

■ 1" DIA. SMOOTH STEEL DOWEL BARS @ 1'-0" O.C., 2'-0" LONG, CENTERED ON JOINT. PROVIDE BOND BREAKER ON PORTION OF DOWEL BAR EXTENDING INTO BARRIER WALL. COST OF DOWEL BARS IS INCLUDED WITH ITEM "SIGN SUPPORTS CONCRETE MASONRY."



A401 A902 A504 A905 A506

BILL OF BARS

COATED: 6380 LBS.
UNCOATED: 290 LBS.

MARK	NO. REQ'D	LENGTH	BENT	COAT	LOCATION
A401	48	8'-9"	X		CAISSON - HOOPS
A902	24	30'-10"	X	X	CAISSON - VERTICAL
A803	20	15'-6"		X	BASE - LONG.
A504	32	18'-3"	X	X	BASE - STIRRUPS
A905	26	20'-0"	X	X	BASE / COLUMN - VERTICAL
A506	50	12'-7"	X	X	COLUMN - STIRRUPS

BAR DIMENSIONS ARE OUT TO OUT OF BAR, UNLESS OTHERWISE NOTED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-407

DRAWN BY DTH | PLANS CK'D. DDR

COLUMN & FOUNDATION DETAILS

SHEET 3
1132

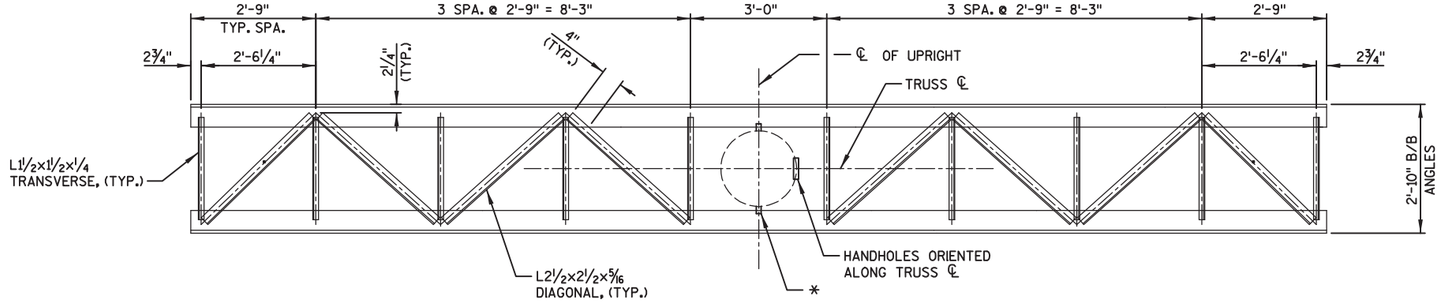
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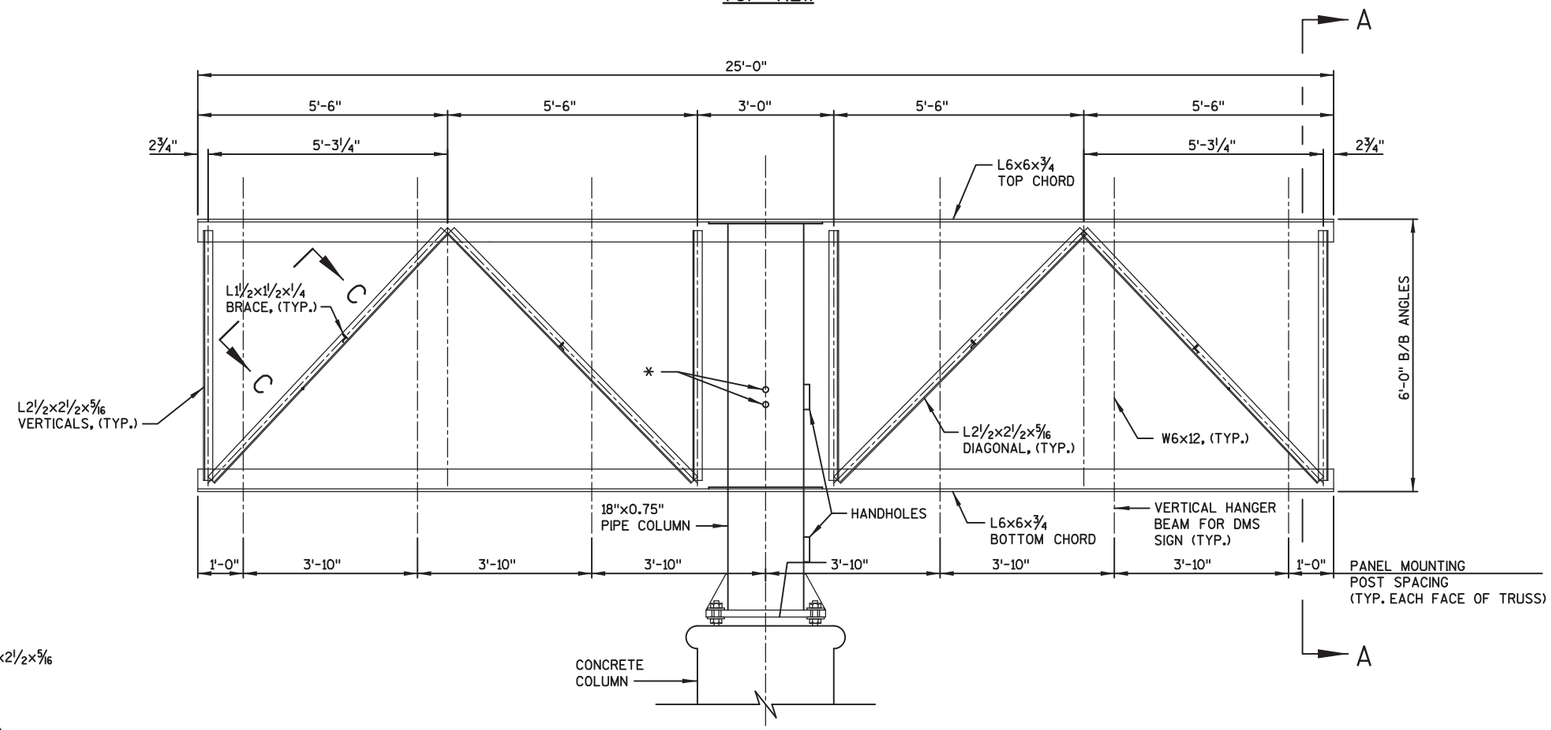
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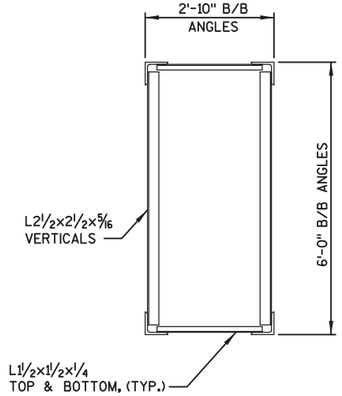
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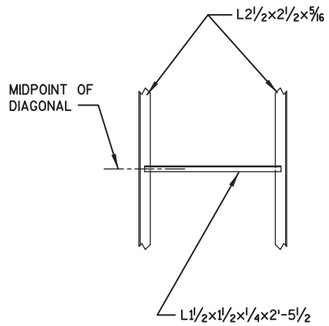
TOP VIEW



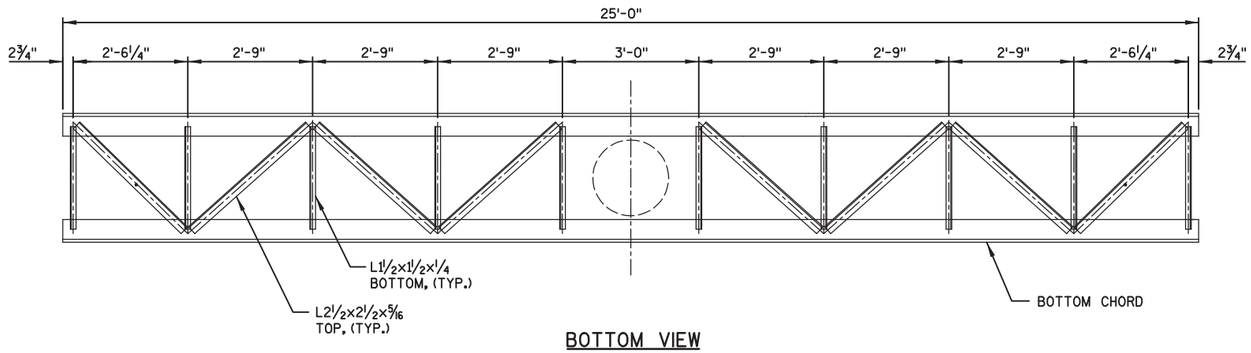
ELEVATION



SECTION A-A



SECTION C-C



BOTTOM VIEW

NOTES:

TRUSS AND COLUMN SHALL BE SHOP ASSEMBLED AND GALVANIZED AS A SINGLE UNIT.

UNLESS OTHERWISE SHOWN, ALL WELDS SHALL BE ¼" FILLET WELDS ALL AROUND.

ALL VIEWS OF THE TRUSSES ARE DRAWN FROM THE INSIDE OF THE TRUSS LOOKIING OUT.

SEE DRAWING 5 FOR POST CONNECTION DETAILS.

LEGEND

* (2) 1½" CONDUIT COUPLINGS IN STEEL COLUMN. TYP. EACH SIDE OF UPPER HANDHOLE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-407

DRAWN BY DTH | PLANS CK'D. DDR

STEEL TRUSS DETAILS - 1

SHEET 4
1133

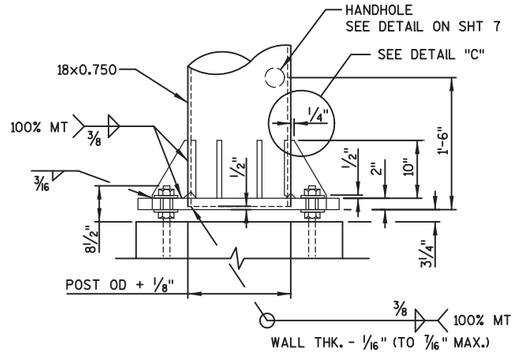
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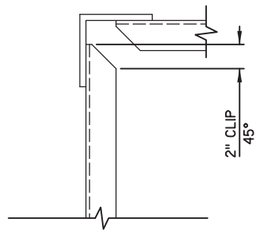
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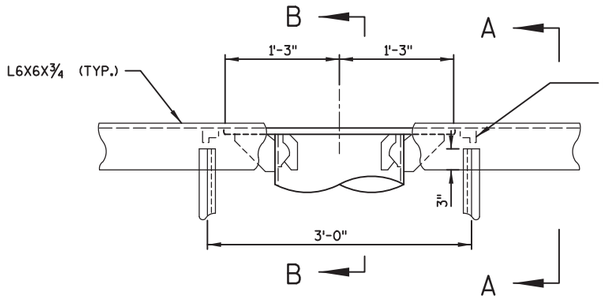
STATE PROJECT NUMBER

1206-07-77





VIEW A-A

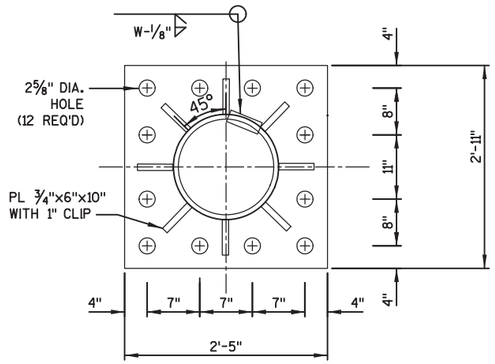


NOTES

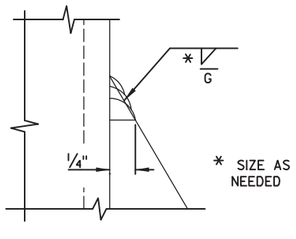
ANCHOR BOLTS SHALL BE PROVIDED WITH TEMPLATES TOP AND BOTTOM TO MAINTAIN VERTICAL ALIGNMENT AND SPACING DURING CONCRETE PLACEMENT. TEMPLATES MAY NOT BE WELDED TO THE ANCHOR BOLTS.

HANDHOLE COVERS SHALL BE GALVANIZED SEPARATELY.

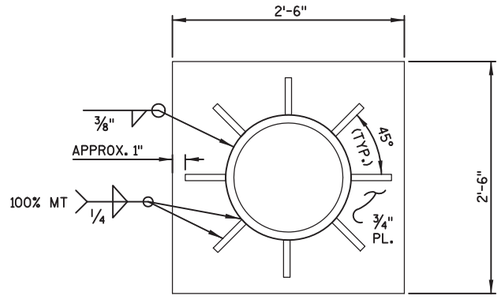
TORQUE ANCHOR BOLTS TO 450 FT-LBS.



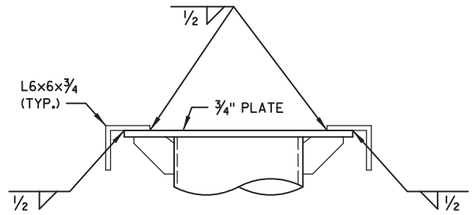
PLAN & ELEVATION - BASE PLATE TYPE A



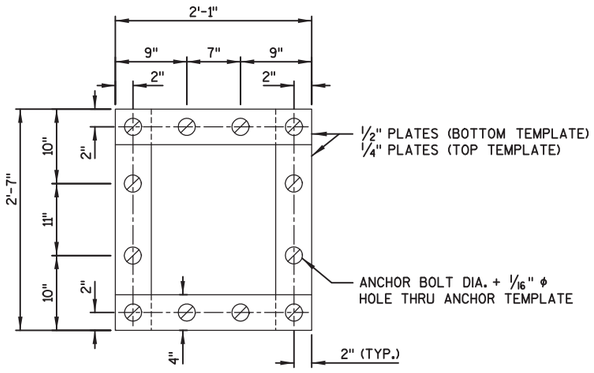
DETAIL "C"



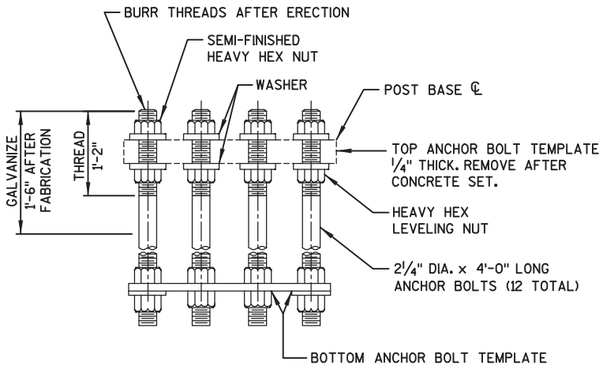
UPPER JUNCTION



VIEW B-B

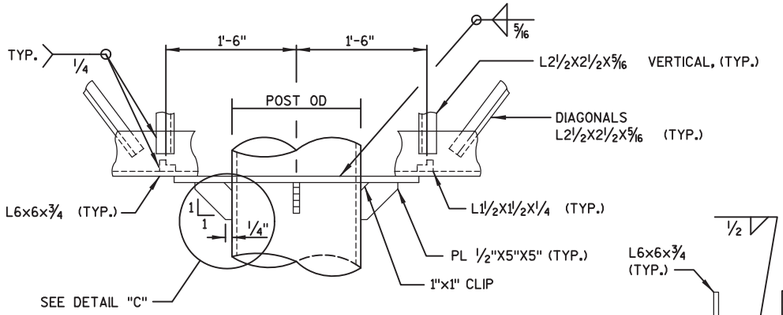


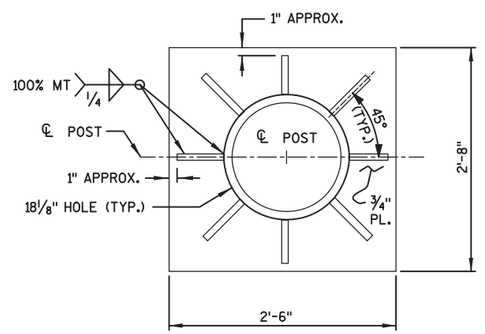
ANCHOR BOLT TEMPLATE PLAN



ELEVATION

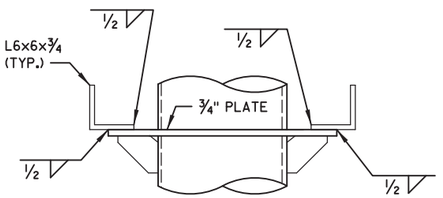
ANCHOR BOLT DETAILS





LOWER JUNCTION

BUTTERFLY TRUSS



VIEW C-C

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-407

DRAWN BY DTH | PLANS CK'D. DDR

STEEL TRUSS DETAILS - 2

SHEET 5
1134

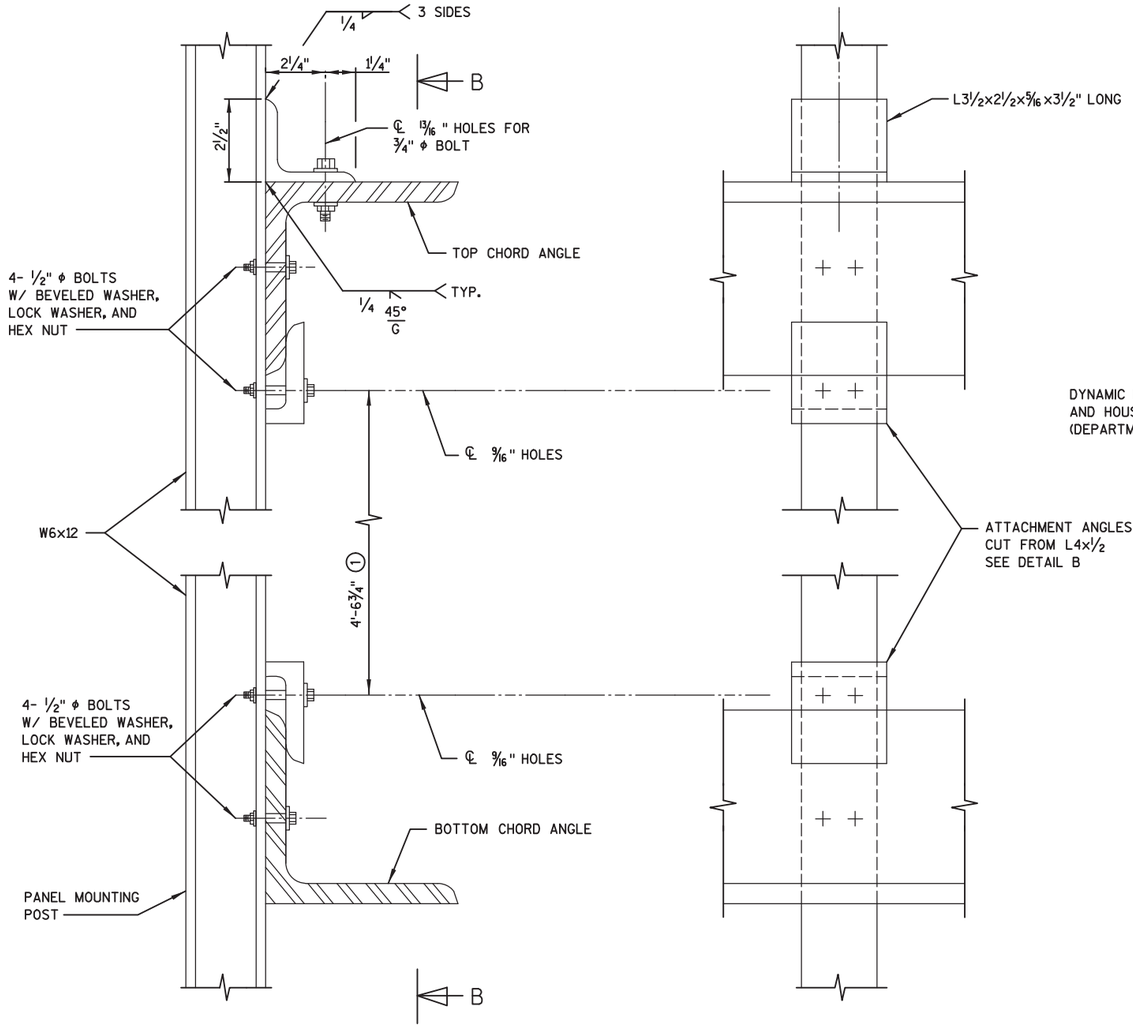
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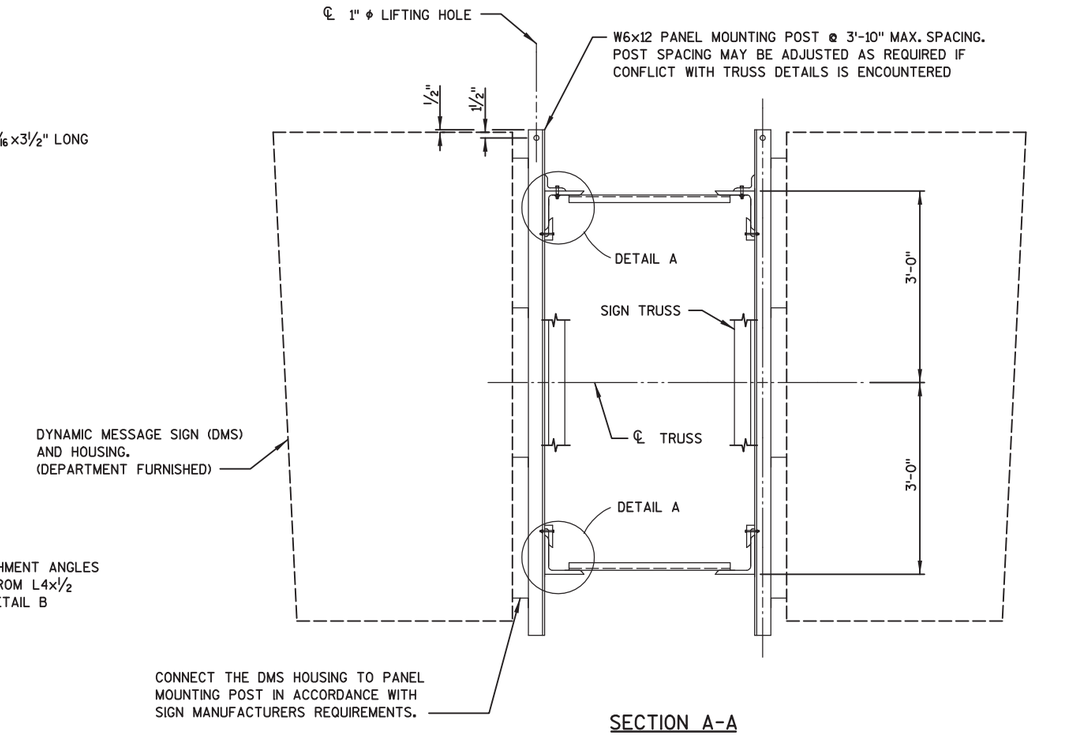
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STATE PROJECT NUMBER

1206-07-77

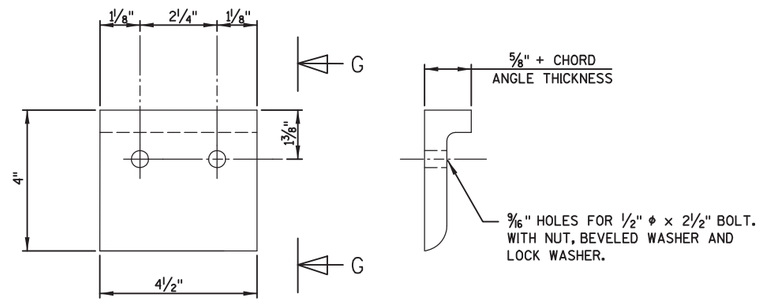


DETAIL A



SECTION A-A

SECTION THRU TRUSS



DETAIL B

SECTION G-G

NOTES:

(1) (TRUSS DEPTH) - (TOP & BOTTOM CHORD < LEGS) - 1 1/4"

W6x12 PANEL MOUNTING POSTS AND 3 1/2x2 1/2 ANGLES WELDED TO THE POSTS SHALL BE SUPPLIED WITH THE TRUSS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-407

DRAWN BY DTH | PLANS CK'D. DDR

DMS PANEL MOUNTING DETAILS

SHEET 6
1135

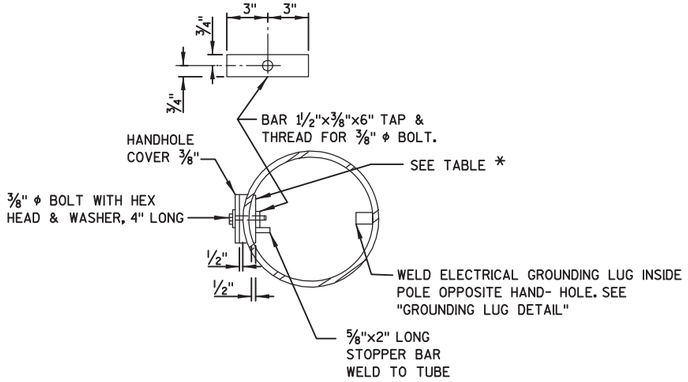
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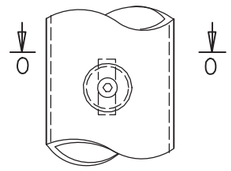
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STATE PROJECT NUMBER

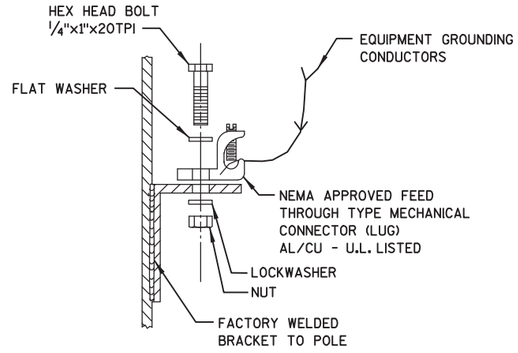
1206-07-77



SECTION 'O'

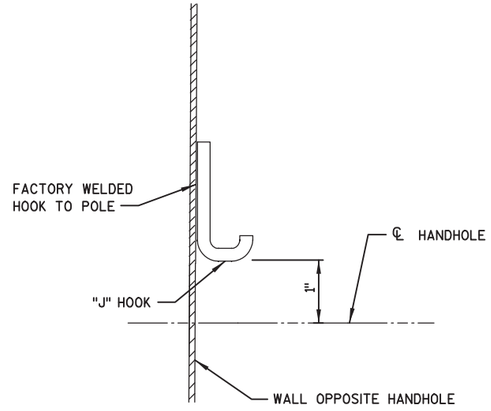


HANDHOLE DETAILS



GROUND LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



TYPICAL "J" HOOK LOCATION

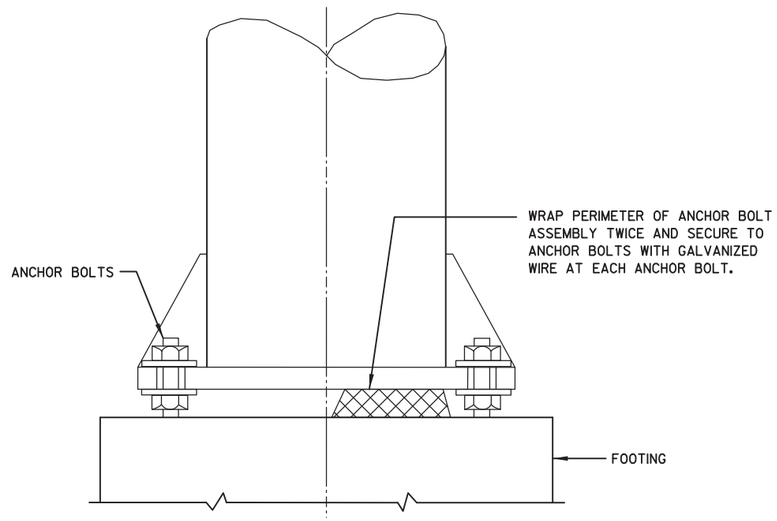
THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.

HANDHOLE NOTES

HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGIONAL TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL DETAIL PLAN SHEETS.

*

UPRIGHT DIAM. SIZE	HANDHOLE PIPE O.D. x MIN. THK.
UP TO AND INCLD. 16" x .375"	5.562" x .500"
GREATER THAN 16" x .375" TO AND INCLD. 24" x .562"	6.625" x .562"



RODENT SCREEN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-407

DRAWN BY DTH | PLANS CK'D. DDR

HANDHOLE DETAILS

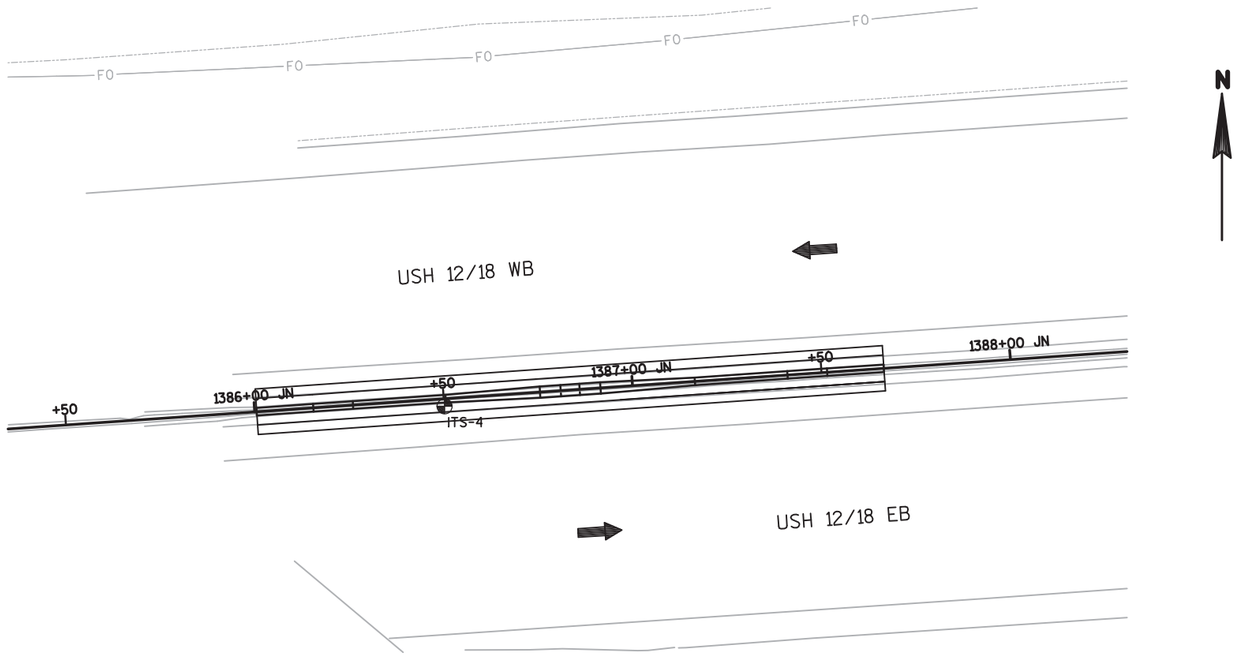
SHEET 7
1136

8

8

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\080706_hd.dgn

SOIL BORING PERFORMED ON
JULY 2, 2012 BY:
SOILS & ENGINEERING SERVICES, INC.
1102 STEWART STREET
MADISON, WI 53713
(608) 274-7600



STATE PROJECT NUMBER

1206-07-77

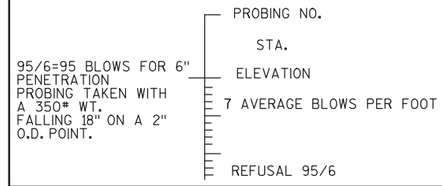
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

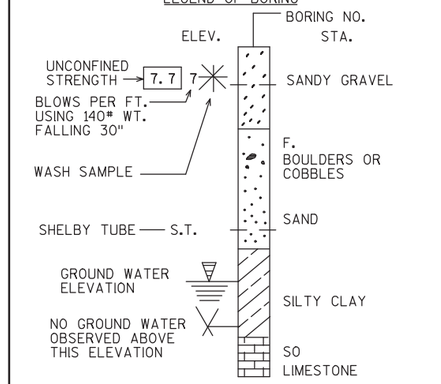
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



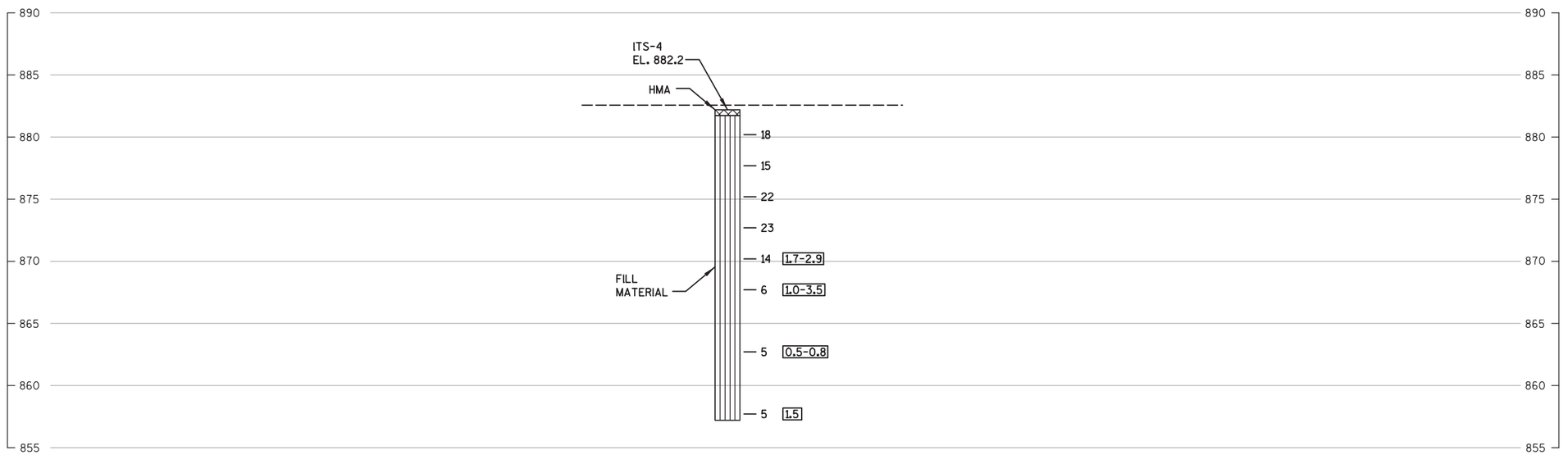
UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

SOIL PROPERTIES - BORING ITS-4

	ESTIMATED SOIL PROPERTIES			LATERAL EARTH PRESSURE COEFFICIENTS				RECOMMENDED ULTIMATE VALUES	
ELEVATION (FEET)	UNIT WEIGHT (LB/FT^3)	ANGLE OF INTERNAL FRICTION (DEGREES)	COHESION (LB/FT^2)	ACTIVE Ka	PASSIVE Kp	AT-REST Ko	COEFFICIENT OF HORIZONTAL SUBGRADE REACTION ($KIPS/FT^3$)	SKIN FRICTION (LB/FT^2/VERTICAL FT.)	END BEARING ($TONS/FT^2$)
881.7 TO 880.9	135	38	0	0.24	4.2	0.38	16	IGNORE	---
880.9 TO 877.2	140	35	0	0.27	3.7	0.43	36	IGNORE	---
877.2 TO 871.2	148.6	37	0	0.25	4.0	0.40	97	920	---
871.2 TO 869.2	133	0	2,300	1.00	1.0	1.00	48	1,270	---
869.2 TO 865.2	127	0	2,250	1.00	1.0	1.00	47	1,240	---
865.2 TO 860.2	127	0	650	1.00	1.0	1.00	12	360	---
860.2 TO 857.2	130	15	1,500	0.59	1.7	0.74	28	830	---



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE S-13-407

DRAWN BY DTH | PLANS CK'D. DDR

SUBSURFACE EXPLORATION

SHEET 8
1137

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\080707_sx.dgn

FILE=
SCALE =

MAINLINE		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
994+77		6	0	0	0	0	0	0	0	0	0	0	0
994+91	14	5	0	0	0	3	0	0	0	3	0	0	3
995+00	9	4	0	0	0	2	0	0	0	4	0	0	4
995+50	50	9	0	0	0	12	0	0	1	16	0	1	16
996+00	50	11	0	1	1	19	0	0	1	35	1	2	34
996+50	50	14	0	0	1	24	0	0	1	59	1	4	58
997+00	50	19	0	0	1	31	0	0	2	90	1	6	88
997+50	50	16	0	0	1	33	0	0	2	122	1	8	121
998+00	50	16	0	0	1	29	0	0	1	152	1	9	150
998+50	50	17	0	0	1	30	0	0	1	181	1	11	180
999+00	50	18	0	0	1	32	0	0	2	214	1	13	212
999+50	50	22	0	0	1	37	0	0	2	250	1	16	249
1000+00	50	20	0	0	1	38	0	0	2	289	1	18	288
1000+50	50	19	0	0	1	36	0	0	2	325	1	20	323
1001+00	50	16	0	0	1	32	0	0	2	356	1	22	355
1001+50	50	15	0	0	1	28	0	0	1	385	1	24	383
1002+00	50	15	0	0	1	28	0	0	1	413	1	26	412
1002+50	50	15	0	0	1	28	0	0	1	441	1	28	440
1003+00	50	16	0	0	1	29	0	0	1	469	1	29	468
1003+50	50	17	0	0	1	31	0	0	2	500	1	31	499
1004+00	50	21	0	0	1	35	0	0	2	535	1	33	534
1004+50	50	22	0	0	1	40	0	0	2	575	1	36	574
1004+75	25	30	0	0	2	25	0	0	1	599	1	37	598
1005+00	25	27	0	0	1	26	0	0	1	625	1	39	624
1005+25	25	28	0	0	1	26	0	0	1	651	1	41	650
1005+50	25	27	0	0	1	25	0	0	1	676	1	42	675
1006+00	50	27	0	0	1	50	0	0	2	726	1	45	725
1006+50	50	26	0	0	1	49	0	0	2	775	1	48	774
1006+61	11	36	0	0	2	13	0	0	1	788	1	49	786
1006+84	23	36	0	0	2	30	0	0	1	818	1	51	816
1006+98	14	36	0	0	2	19	0	0	1	836	1	52	835
1007+00	2	35	0	0	2	3	0	0	0	839	1	52	838
1007+29	29	35	0	1	2	37	0	0	2	877	2	55	875
1007+43	14	36	0	1	2	18	0	0	1	895	2	56	893
1007+50	8	37	0	1	2	10	0	0	1	905	3	57	903
1008+00	50	37	0	5	2	69	0	5	3	974	9	61	965
1008+26	26	38	0	7	2	36	0	6	2	1,010	16	63	994
1008+50	24	22	0	9	1	27	0	7	1	1,037	25	65	1,012
1008+76	26	23	0	18	1	22	0	13	1	1,059	41	66	1,018
1009+00	24	27	0	0	1	23	0	8	1	1,081	51	68	1,031
1009+32	32	26	0	0	1	31	0	0	2	1,113	51	70	1,062
1009+50	19	29	0	0	1	19	0	0	1	1,132	51	71	1,081
1010+00	50	16	0	0	1	42	0	0	2	1,173	51	73	1,122
1010+50	50	21	0	0	1	35	0	0	2	1,208	51	75	1,157
1011+00	50	13	0	0	1	31	0	0	2	1,239	51	77	1,188
1011+50	50	18	0	0	1	29	0	0	1	1,268	51	79	1,217
1012+00	50	16	0	0	1	31	0	0	2	1,299	51	81	1,248
1012+50	50	15	0	0	1	28	0	0	1	1,328	51	83	1,277
1013+00	50	16	0	0	1	29	0	0	1	1,356	51	85	1,306
1013+50	50	14	0	0	1	28	0	0	1	1,384	51	86	1,333

CONT. ON NEXT PAGE

MAINLINE		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
1014+00	50	13	0	0	1	25	0	0	1	1,409	51	88	1,358
1014+50	50	13	0	0	1	24	0	0	1	1,432	51	90	1,382
1015+00	50	15	0	0	1	25	0	0	1	1,458	51	91	1,407
1015+50	50	20	0	0	1	32	0	0	2	1,489	51	93	1,438
1016+00	50	16	0	1	1	33	0	1	2	1,522	52	95	1,470
1016+50	50	17	0	2	1	30	0	3	2	1,552	56	97	1,496
1017+00	50	26	0	7	1	40	0	8	2	1,592	66	100	1,526
1017+24	24	25	0	10	1	23	0	8	1	1,615	76	101	1,540
1017+50	26	26	0	8	1	24	0	9	1	1,640	86	102	1,553
1017+74	24	27	0	7	1	24	0	6	1	1,663	94	104	1,569
1018+00	26	27	0	3	1	25	0	5	1	1,689	100	106	1,588
1018+25	25	27	0	3	1	25	0	3	1	1,714	104	107	1,610
1018+50	25	26	0	7	1	24	0	5	1	1,738	109	109	1,629
1019+00	50	27	0	6	1	49	0	12	2	1,787	125	112	1,662
1019+50	50	26	0	8	1	49	0	13	2	1,837	141	115	1,696
1019+66	16	26	0	7	1	15	0	4	1	1,852	146	116	1,705
1019+80	14	27	0	6	1	14	0	3	1	1,866	151	117	1,715
1020+00	20	27	0	3	1	20	0	4	1	1,886	155	118	1,731
1020+50	50	17	0	3	1	41	0	5	2	1,927	161	120	1,765
1021+00	50	11	0	0	1	25	0	2	1	1,952	164	122	1,788
1021+50	50	12	0	0	1	21	0	0	1	1,973	164	123	1,808
1022+00	50	11	0	0	1	21	0	0	1	1,994	164	125	1,829
1022+50	50	12	0	0	1	22	0	0	1	2,016	164	126	1,851
1023+00	50	13	0	0	1	23	0	0	1	2,039	164	127	1,874
1023+50	50	10	0	0	1	21	0	0	1	2,060	164	129	1,896
1024+00	50	10	0	0	0	19	0	0	1	2,079	164	130	1,915
1024+50	50	10	0	0	1	19	0	0	1	2,098	164	131	1,933
1025+01	51	25	0	0	1	33	0	0	2	2,131	164	133	1,966
				COLUMN TOTALS		2,131	0	132	107				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

CONT. ON NEXT PAGE

MAINLINE		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
1025+01		25	4	0	1	0	0	0	0	0	0	0	0
1025+50	49	27	4	2	1	47	7.76	2	2	47	3	3	37
1026+00	50	23	4	20	1	46	7.91	20	2	93	28	6	50
1026+10	10	23	9	19	1	9	2.53	7	0	102	37	6	47
1026+33	23	72	14	35	4	41	10	23	2	142	66	9	49
1026+50	17	96	14	34	5	53	9	22	3	195	93	12	66
1027+00	50	100	14	27	5	181	26	56	9	377	163	24	151
1027+44	44	117	14	15	6	175	22	34	9	552	206	34	261
1027+50	6	113	14	17	6	28	3	4	1	579	210	36	281
1027+69	19	104	14	17	5	75	10	12	4	654	225	41	331
1027+94	25	102	14	18	5	96	13	16	5	750	245	47	394
1028+00	6	105	14	17	5	24	3	4	1	774	250	48	410
1028+50	50	119	14	12	6	207	26	27	10	981	283	61	558
1029+00	50	114	14	20	6	215	26	30	11	1,196	320	75	711
1029+50	50	115	14	14	6	212	26	32	11	1,409	360	88	857
1030+00	50	116	14	9	6	215	26	22	11	1,623	387	101	1,019
1030+50	50	121	14	7	6	220	26	15	11	1,843	406	115	1,194
1031+00	50	117	14	7	6	220	26	13	11	2,063	422	129	1,372
1031+50	50	109	14	7	5	209	26	13	10	2,272	439	142	1,539
1032+00	50	107	14	8	5	200	26	14	10	2,472	456	155	1,696
1032+50	50	111	14	7	6	202	26	13	10	2,674	473	167	1,856
1033+00	50	111	14	5	6	206	26	11	10	2,880	487	180	2,022
1033+50	50	110	14	5	6	205	26	10	10	3,085	499	193	2,189
1034+00	50	114	14	3	6	208	26	7	10	3,293	508	206	2,362
1034+26	26	114	14	0	6	109	13	1	5	3,401	510	213	2,456
1034+50	24	124	14	0	6	107	12	0	5	3,509	510	219	2,550
1034+53	3	125	14	0	6	12	1	0	1	3,521	510	220	2,561
1034+76	23	124	14	1	6	105	12	0	5	3,626	511	227	2,654
1034+78	2	125	14	1	6	10	1	0	0	3,636	511	227	2,663
1035+00	22	137	9	2	7	108	10	1	5	3,744	512	234	2,760
1035+03	3	128	9	2	6	13	1	0	1	3,757	512	235	2,772
1035+25	22	125	9	1	6	102	7	1	5	3,860	514	241	2,866
1035+50	25	123	9	1	6	117	9	1	6	3,977	515	249	2,972
1035+75	25	117	9	0	6	110	8	1	5	4,086	516	255	3,073
1036+00	25	79	9	1	4	92	9	0	5	4,178	516	261	3,156
1036+22	22	76	5	6	4	63	6	3	3	4,241	520	265	3,209
1036+50	28	77	5	7	4	80	5	7	4	4,321	529	270	3,276
1037+00	50	71	5	8	4	137	9	14	7	4,459	547	279	3,386
1037+50	50	68	5	10	3	129	9	17	6	4,588	567	287	3,486
1038+00	50	68	5	10	3	126	9	19	6	4,714	591	295	3,580
1038+50	50	68	5	9	3	126	9	18	6	4,841	614	303	3,674
1039+00	50	69	5	9	3	127	9	17	6	4,968	635	310	3,771
1039+50	50	72	5	8	4	130	9	16	7	5,098	655	319	3,872
1040+00	50	69	5	9	3	130	9	16	7	5,228	675	327	3,973
1040+50	50	67	5	9	3	126	9	17	6	5,353	696	335	4,069
1041+00	50	72	5	7	4	129	9	15	6	5,482	716	343	4,169
1041+50	50	75	5	6	4	136	9	12	7	5,618	731	351	4,281
1042+00	50	74	5	7	4	138	9	12	7	5,756	746	360	4,395
1042+50	50	78	5	6	4	141	9	12	7	5,897	761	369	4,512
1043+00	50	76	5	6	4	142	9	11	7	6,039	775	377	4,631

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MAINLINE		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
1043+50	50	70	5	9	4	135	9	13	7	6,174	792	386	4,740
1044+00	50	70	5	10	4	130	9	17	7	6,304	813	394	4,840
1044+50	50	73	5	10	4	133	9	18	7	6,437	836	402	4,941
1045+00	50	70	5	11	4	133	9	20	7	6,569	861	411	5,040
1045+50	50	70	5	14	3	130	9	24	7	6,700	890	419	5,131
1046+00	50	70	5	13	4	130	9	25	6	6,829	921	427	5,221
1046+50	50	68	5	13	3	128	9	24	6	6,957	952	435	5,310
1047+00	50	67	5	12	3	125	9	23	6	7,082	981	443	5,396
1047+50	50	70	5	11	4	127	9	21	6	7,209	1,007	451	5,488
1048+00	50	70	5	13	3	130	9	22	6	7,338	1,035	459	5,581
1048+50	50	69	5	14	3	129	9	25	6	7,467	1,067	467	5,669
1049+00	50	68	5	12	3	128	9	24	6	7,595	1,097	475	5,758
1049+50	50	69	5	11	3	127	9	22	6	7,722	1,124	483	5,848
1050+00	50	68	5	13	3	127	9	22	6	7,849	1,152	491	5,939
1050+50	50	71	5	9	4	129	9	20	6	7,978	1,177	499	6,034
1051+00	50	68	5	8	3	129	9	16	6	8,107	1,197	507	6,134
1051+50	50	66	5	10	3	124	9	18	6	8,231	1,219	514	6,227
1052+00	50	68	5	14	3	124	9	23	6	8,354	1,247	522	6,313
1052+50	50	68	5	9	3	126	9	22	6	8,481	1,274	530	6,403
1053+00	50	76	5	7	4	134	9	15	7	8,614	1,293	538	6,510
1053+50	50	84	5	4	4	148	9	10	7	8,762	1,305	548	6,637
1053+85	35	85	12	4	4	109	11	5	5	8,871	1,311	554	6,729
1054+00	15	116	12	4	6	56	7	2	3	8,927	1,314	558	6,776
1054+50	50	113	12	6	6	212	22	9	11	9,140	1,325	571	6,955
1055+00	50	116	12	5	6	213	22	10	11	9,352	1,337	585	7,133
1055+50	50	116	12	6	6	215	22	10	11	9,568	1,350	598	7,314
1055+67	17	113	12	8	6	72	7	4	4	9,640	1,356	603	7,373
1055+92	25	126	12	6	6	111	11	7	6	9,751	1,364	609	7,465
1056+00	8	126	12	7	6	37	4	2	2	9,788	1,366	612	7,497
1056+17	17	112	12	10	6	75	7	5	4	9,863	1,373	616	7,557
1056+50	33	117	12	9	6	140	14	12	7	10,003	1,388	625	7,668
1057+00	50	111	12	8	6	211	22	16	11	10,214	1,407	638	7,838
1057+50	50	105	12	8	5	200	22	15	10	10,415	1,426	651	7,998
1058+00	50	97	12	12	5	187	22	18	9	10,602	1,448	663	8,140
1058+50	50	102	12	15	5	184	22	25	9	10,786	1,480	674	8,272
1059+00	50	104	12	16	5	191	22	29	10	10,978	1,516	686	8,404
1059+50	50	107	12	18	5	196	22	32	10	11,173	1,557	698	8,538
1060+00	50	108	12	14	5	199	22	30	10	11,373	1,594	711	8,678
1060+50	50	109	12	16	5	201	22	27	10	11,573	1,628	723	8,823
1061+00	50	103	12	17	5	196	22	31	10	11,770	1,666	736	8,959
1061+50	50	103	12	18	5	191	22	33	10	11,960	1,707	748	9,087
1062+00	50	101	12	19	5	189	22	35	9	12,149	1,751	759	9,210
1062+50	50	106	12	14	5	192	22	31	10	12,341	1,789	771	9,341
1063+00	50	116	12	10	6	206	22	22	10	12,546	1,817	784	9,497
1063+50	50	114	12	11	6	213	22	19	11	12,759	1,841	797	9,664
1063+87	37	116	12	14	6	159	16	17	8	12,918	1,862	807	9,785
1064+00	13	117	12	13	6	54	5	6	3	12,972	1,870	811	9,826
1064+50	50	121	12	18	6	221	22	29	11	13,194	1,906	825	9,990
1065+00	50	121	12	15	6	224	22	31	11	13,418	1,945	839	10,154
1065+50	50	120	12	19	6	223	22	31	11	13,641	1,984	853	10,316

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MAINLINE		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
1065+75	25	117	8	19	6	111	9	18	6	13,751	2,006	859	10,395
1066+00	25	84	8	21	4	92	7	19	5	13,844	2,029	865	10,457
1066+50	50	88	8	19	4	159	14	37	8	14,003	2,075	875	10,556
1067+00	50	57	6	17	3	134	13	33	7	14,137	2,117	884	10,636
1067+50	50	58	6	15	3	106	12	29	5	14,243	2,153	890	10,693
1068+00	50	59	6	10	3	108	12	23	5	14,350	2,182	897	10,760
1068+50	50	57	6	9	3	107	12	18	5	14,457	2,204	904	10,833
1069+00	50	57	6	3	3	105	12	11	5	14,563	2,218	910	10,913
1069+50	50	61	6	4	3	109	12	6	5	14,671	2,226	917	11,003
1070+00	50	68	6	0	3	119	12	4	6	14,791	2,230	924	11,106
1070+21	21	70	6	0	4	55	5	0	3	14,846	2,230	928	11,156
1070+50	29	69	6	0	3	74	7	0	4	14,920	2,230	932	11,223
1071+00	50	65	6	0	3	124	12	0	6	15,044	2,230	940	11,335
1071+50	50	67	6	0	3	122	12	0	6	15,166	2,231	948	11,446
1072+00	50	68	6	1	3	124	12	1	6	15,291	2,232	956	11,557
1072+50	50	72	6	0	4	130	12	1	6	15,420	2,233	964	11,674
1073+00	50	74	6	0	4	135	12	0	7	15,556	2,233	972	11,798
1073+50	50	72	6	0	4	135	12	0	7	15,690	2,233	981	11,921
1074+00	50	78	6	0	4	139	12	0	7	15,829	2,233	989	12,047
1074+50	50	75	6	0	4	141	12	0	7	15,970	2,233	998	12,177
1075+00	50	77	6	0	4	141	12	0	7	16,110	2,233	1,007	12,306
1075+50	50	68	6	0	3	135	12	0	7	16,245	2,233	1,015	12,429
1076+00	50	82	6	0	4	139	12	0	7	16,384	2,233	1,024	12,556
1076+50	50	86	6	0	4	156	12	0	8	16,540	2,233	1,034	12,700
1077+00	50	111	6	0	6	182	12	0	9	16,722	2,233	1,045	12,871
1077+28	28	90	6	0	4	103	6	0	5	16,825	2,233	1,052	12,967
1077+41	14	91	6	0	5	46	3	0	2	16,871	2,233	1,054	13,010
				COLUMN TOTALS		16,871	1,628	1,787	844				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

L		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
67+00		32	1	0	2	0	0	0	0	0	0	0	0
67+50	50	31	1	0	2	58	2	0	3	58	0	4	56
68+00	50	30	1	0	2	56	2	0	3	114	0	7	110
68+50	50	30	1	0	2	56	2	0	3	170	0	11	163
69+00	50	29	1	0	1	55	2	0	3	225	0	14	216
69+50	50	29	1	0	1	53	2	0	3	278	0	17	267
70+00	50	28	1	0	1	53	2	0	3	331	0	21	317
70+50	50	30	1	0	2	54	2	0	3	385	0	24	369
71+00	50	29	1	0	1	55	2	0	3	440	0	27	421
71+50	50	26	1	0	1	51	2	0	3	491	0	31	470
72+00	50	26	1	0	1	48	2	0	2	539	0	34	516
72+50	50	26	1	18	1	48	2	17	2	587	21	37	540
73+00	50	26	1	15	1	48	2	30	2	636	59	40	548
73+50	50	26	1	8	1	48	2	21	2	684	85	43	568
74+00	50	26	1	7	1	48	2	14	2	733	103	46	596
74+50	50	26	1	8	1	48	2	14	2	780	120	49	624
75+00	50	24	1	5	1	46	2	12	2	826	136	52	653
75+50	50	22	1	4	1	43	2	9	2	869	147	54	682
76+00	50	15	1	2	1	34	2	6	2	903	154	56	707
				COLUMN TOTALS		903	43	123	45				

NOTES:

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2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

BI		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
9+99		9	0	0	0	0	0	0	0	0	0	0	0
10+00	1	9	0	0	0	0	0	0	0	0	0	0	0
10+50	50	0	0	7	0	9	0	7	0	9	8	1	0
11+00	50	0	0	99	0	0	0	98	0	9	131	1	-122
11+39	39	0	0	106	0	0	0	148	0	9	316	1	-307
15+17		0	0	9	0	0	0	0	0	9	316	1	-307
15+50	33	4	0	0	0	3	0	6	0	12	323	1	-311
15+75	25	8	0	0	0	6	0	0	0	17	323	1	-306
				COLUMN TOTALS		17	0	258	1				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

WP		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
64+50		12	3	0	1	0	0	0	0	0	0	0	0
65+00	50	13	3	55	1	23	6	51	1	23	64	1	-46
65+30	30	31	3	55	2	24	3	61	1	48	140	3	-101
65+50	20	0	0	62	0	11	1	43	1	59	194	4	-144
66+00	50	0	0	55	0	0	0	109	0	59	329	4	-280
66+50	50	2	0	36	0	2	0	85	0	61	435	4	-384
67+00	50	0	0	30	0	2	0	62	0	63	512	4	-459
67+50	50	0	0	37	0	0	0	63	0	63	590	4	-537
68+00	50	1	0	36	0	1	0	68	0	64	675	4	-621
68+50	50	0	0	36	0	1	0	66	0	65	758	4	-703
69+00	50	5	0	23	0	5	0	55	0	69	826	4	-767
69+50	50	1	0	24	0	6	0	43	0	75	880	5	-815
70+00	50	6	0	23	0	6	0	44	0	81	934	5	-863
70+50	50	3	0	22	0	9	0	42	0	90	987	6	-907
71+00	50	1	0	30	0	4	0	49	0	94	1,048	6	-964
71+50	50	2	0	20	0	3	0	47	0	97	1,107	6	-1,020
72+00	50	0	0	60	0	2	0	74	0	98	1,200	6	-1,111
72+50	50	0	0	35	0	0	0	88	0	98	1,310	6	-1,222
73+00	50	1	0	40	0	1	0	70	0	99	1,398	6	-1,308
73+50	50	3	0	37	0	4	0	72	0	103	1,487	6	-1,394
74+00	50	1	0	36	0	4	0	68	0	107	1,572	7	-1,475
74+50	50	0	0	40	0	1	0	70	0	107	1,660	7	-1,562
75+00	50	0	0	52	0	0	0	85	0	107	1,766	7	-1,669
75+50	50	4	0	40	0	4	0	85	0	111	1,872	7	-1,771
76+00	50	24	0	18	1	27	0	53	1	138	1,939	9	-1,811
76+40	40	11	0	1	1	26	0	14	1	164	1,957	10	-1,802
				COLUMN TOTALS		164	10	1,565	8				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

9

9

MAINLINE		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
1166+50		0	0	0	0	0	0	0	0	0	0	0	0
1166+90	40	0	0	9	0	0	0	7	0	0	9	0	-9
1166+98	8	0	0	18	0	0	0	4	0	0	14	0	-14
1167+00	2	8	0	2	0	0	0	1	0	0	15	0	-14
1167+50	50	5	0	2	0	12	0	3	1	12	19	1	-7
1168+00	50	4	0	3	0	8	0	5	0	20	25	1	-5
1168+50	50	3	0	3	0	6	0	6	0	26	33	2	-6
1169+00	50	2	0	3	0	5	0	5	0	31	39	2	-8
1169+50	50	2	0	3	0	4	0	5	0	35	45	2	-11
1170+00	50	13	0	3	1	13	0	5	1	48	52	3	-4
1170+50	50	170	0	0	9	169	0	3	8	217	55	14	162
1171+00	50	199	0	0	10	342	0	0	17	560	55	35	504
1171+50	50	22	0	22	1	205	0	21	10	764	81	48	683
1172+00	50	0	0	17	0	20	0	36	1	785	126	49	659
1172+50	50	0	0	11	0	0	0	26	0	785	158	49	627
1173+00	50	2	0	81	0	2	0	86	0	787	265	49	522
1173+50	50	0	0	63	0	2	0	134	0	789	432	49	357
1174+00	50	0	0	35	0	0	0	91	0	790	546	49	243
1174+50	50	0	0	30	0	0	0	60	0	790	622	49	168
1175+00	50	0	0	23	0	0	0	49	0	790	683	49	107
1175+50	50	0	0	9	0	0	0	30	0	790	721	49	69
1176+00	50	0	0	14	0	0	0	22	0	790	748	49	42
1176+50	50	0	0	19	0	0	0	31	0	790	786	49	4
1176+60	10	31	0	20	2	6	0	7	0	796	796	50	0
				COLUMN TOTALS		796	0	636	40				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

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MAINLINE		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
1177+00		39	4	24	2	0	0	0	0	0	0	0	0
1177+20	20	37	4	0	2	28	3	9	1	28	11	2	14
1177+50	30	40	4	0	2	42	4	0	2	70	11	4	53
1178+00	50	44	4	0	2	78	7	0	4	148	11	9	124
1178+50	50	48	4	0	2	86	7	0	4	234	11	15	203
1179+00	50	49	4	0	2	90	7	0	4	324	11	20	286
1179+50	50	52	4	0	3	93	7	0	5	417	11	26	373
1180+00	50	52	4	0	3	97	7	0	5	514	11	32	462
1180+50	50	54	4	0	3	99	7	0	5	613	11	38	554
1181+00	50	31	16	0	2	78	18	0	4	691	11	43	614
1181+50	50	27	16	0	1	54	30	0	3	745	11	47	638
1182+00	50	27	16	0	1	50	30	0	3	795	11	50	658
1182+50	50	84	16	0	4	103	30	0	5	898	11	56	731
1183+00	50	95	16	0	5	167	30	0	8	1,065	11	67	867
1183+50	50	83	16	0	4	165	30	0	8	1,230	11	77	1,002
1184+00	50	81	16	0	4	152	30	0	8	1,381	11	86	1,123
1184+50	50	81	16	0	4	149	30	0	7	1,531	11	96	1,242
1185+00	50	80	16	0	4	148	30	0	7	1,679	11	105	1,361
1185+50	50	78	16	0	4	146	30	0	7	1,825	11	114	1,476
1186+00	50	76	16	0	4	143	30	0	7	1,968	11	123	1,589
1186+50	50	71	16	0	4	137	30	0	7	2,104	11	132	1,695
1187+00	50	66	16	0	3	127	30	0	6	2,231	11	139	1,792
1187+50	50	74	16	0	4	130	30	0	6	2,361	11	148	1,891
1188+00	50	72	16	0	4	135	30	0	7	2,496	11	156	1,996
1188+50	50	73	16	0	4	134	30	0	7	2,631	11	164	2,100
1189+00	50	74	16	0	4	136	30	0	7	2,767	11	173	2,206
1189+50	50	72	16	0	4	136	30	0	7	2,902	11	181	2,312
1190+00	50	77	16	14	4	139	30	13	7	3,041	27	190	2,404
1190+50	50	76	16	17	4	142	30	28	7	3,183	63	199	2,480
1191+00	50	69	16	5	3	135	30	20	7	3,318	88	207	2,559
1191+50	50	74	16	0	4	133	30	5	7	3,451	95	216	2,655
1192+00	50	66	16	0	3	130	30	1	6	3,580	96	224	2,753
1192+50	50	61	16	6	3	117	30	6	6	3,697	103	231	2,833
1193+00	50	60	16	3	3	112	30	8	6	3,809	113	238	2,905
1193+50	50	59	16	3	3	110	30	5	6	3,919	119	245	2,979
1193+73	23	62	16	2	3	50	14	2	3	3,970	122	248	3,013
				COLUMN TOTALS		3,970	835	97	198				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

ML		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.30 NOTE 4	MASS ORDINATE NOTE 5
1192+59		10	0	1	0	0	0	0	0	0	0	0	0
1193+00	41	14	0	2	1	18	0	2	1	18	3	1	15
1193+50	50	19	0	17	1	30	0	18	2	48	25	3	23
1193+73	23	21	0	16	1	17	0	14	1	65	42	4	23
1194+00	27	25	0	13	1	23	0	15	1	89	61	6	28
1194+37	37	26	0	33	1	35	0	31	2	123	100	8	23
1194+37	---	36	1	33	2	0	0	0	0	123	100	8	23
1194+49	12	33	1	53	2	15	1	19	1	138	123	9	15
1194+50	1	33	1	47	2	1	0	2	0	140	126	9	13
1195+00	50	38	1	41	2	66	2	82	3	206	228	13	-25
1195+39	39	33	1	75	2	52	2	84	3	257	334	17	-81
1195+39	---	33	1	51	24	0	0	0	0	257	334	17	-81
1195+50	11	33	1	43	23	13	1	19	5	271	358	23	-92
1195+55	5	32	1	44	23	6	0	8	4	277	368	29	-97
1195+68	13	23	1	41	24	13	1	21	11	290	393	44	-110
1195+68	---	32	0	41	25	0	0	0	0	290	393	44	-110
1195+75	7	24	0	36	24	7	0	10	6	297	406	52	-115
1196+00	25	26	0	32	33	23	0	32	26	321	446	86	-131
1196+05	5	25	0	13	36	5	0	4	6	325	451	95	-132
1196+10	5	26	0	8	36	5	0	2	7	330	453	103	-130
1196+15	5	28	0	5	36	5	0	1	7	335	455	112	-126
1196+19	4	33	0	1	36	5	0	0	5	340	455	119	-122
1196+19	---	24	0	0	36	0	0	0	0	340	455	119	-122
1196+26	7	24	0	0	36	6	0	0	9	346	455	131	-116
1196+45	19	24	0	0	36	17	0	0	25	363	455	164	-99
1196+45	---	25	0	8	36	0	0	0	0	363	455	164	-99
1196+50	5	25	0	9	36	5	0	2	7	368	457	172	-96
1196+74	24	25	0	17	36	22	0	11	32	390	471	214	-88
1196+75	1	25	0	17	36	1	0	1	1	391	472	216	-88
1197+00	25	22	0	33	26	22	0	23	29	412	501	253	-95
1197+05	5	20	0	48	26	4	0	8	5	416	511	259	-101
1197+05	---	20	0	60	1	0	0	0	0	416	511	259	-101
1197+34	29	10	0	3	0	16	0	34	1	432	553	260	-127
				COLUMN TOTALS		432	6	443	200				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL

2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS

3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL

4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30

5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80

6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

S		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
1177+93		143	16	0	7	0	0	0	0	0	0	0	0
1178+00	7	144	16	0	7	37	4	0	2	37	0	2	33
1178+50	50	171	16	0	9	291	30	0	15	329	0	21	295
1179+00	50	122	16	0	6	271	30	0	14	600	0	37	536
1179+50	50	191	16	0	10	290	30	0	14	889	0	56	796
1180+00	50	137	16	0	7	304	30	0	15	1,193	0	75	1,070
1180+50	50	146	16	0	7	262	30	0	13	1,456	0	91	1,302
1181+00	50	90	16	0	4	218	30	0	11	1,673	0	105	1,490
1181+50	50	76	16	0	4	153	30	0	8	1,826	0	114	1,613
1182+00	50	75	16	0	4	139	30	0	7	1,966	0	123	1,722
1182+12	12	73	16	0	4	33	7	0	2	1,999	0	125	1,748
				COLUMN TOTALS		1,999	250	0	100				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

WW		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
50+75		53	12	2	3	0	0	0	0	0	0	0	0
51+00	25	61	12	0	3	53	11	1	3	53	1	3	41
51+17	17	58	12	2	3	38	7	1	2	90	2	6	70
51+50	33	26	12	15	1	52	14	10	3	142	15	9	94
52+00	50	28	12	23	1	50	22	35	3	192	59	12	78
52+50	50	19	12	13	1	44	22	33	2	235	101	15	58
53+00	50	44	12	6	2	59	22	18	3	294	123	18	73
53+43	43	74	12	3	4	94	19	7	5	388	132	24	140
53+50	7	49	12	2	2	16	3	1	1	404	132	25	152
54+00	50	0	0	29	0	45	11	29	2	450	168	28	150
54+50	50	0	0	14	0	0	0	40	0	450	218	28	101
55+00	50	4	0	0	0	4	0	13	0	454	235	28	88
55+50	50	2	0	0	0	6	0	0	0	460	235	29	94
56+00	50	1	0	0	0	3	0	0	0	463	235	29	97
56+50	50	0	0	1	0	1	0	1	0	464	236	29	96
57+00	50	0	0	0	0	0	0	1	0	464	237	29	95
57+50	50	0	0	0	0	0	0	1	0	464	238	29	95
58+00	50	0	0	2	0	0	0	2	0	464	240	29	93
58+50	50	0	0	0	0	0	0	2	0	464	243	29	90
59+00	50	0	0	2	0	0	0	2	0	464	245	29	88
59+50	50	0	0	1	0	0	0	2	0	464	248	29	84
60+00	50	0	0	1	0	0	0	2	0	464	250	29	83
60+50	50	0	0	1	0	0	0	2	0	464	252	29	81
61+00	50	1	0	0	0	1	0	1	0	466	254	29	81
61+50	50	0	0	3	0	1	0	3	0	467	258	29	78
62+00	50	0	0	2	0	0	0	5	0	467	263	29	73
62+50	50	2	0	1	0	2	0	3	0	469	267	29	71
63+00	50	10	0	0	1	12	0	1	1	481	269	30	81
63+50	50	25	0	0	1	33	0	0	2	513	269	32	113
				COLUMN TOTALS		513	131	215	26				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

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FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090108a_ew.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 49

SF		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
71+00		7	0	0	0	0	0	0	0	0	0	0	0
71+42	42	2	0	3	0	7	0	2	0	7	3	0	4
71+50	8	1	0	3	0	0	0	1	0	7	4	0	3
71+59	9	13	0	6	1	2	0	2	0	10	6	1	4
71+68	9	7	0	7	0	3	0	2	0	13	9	1	5
71+94	26	7	0	3	0	7	0	5	0	20	15	1	5
72+00	6	11	0	2	1	2	0	1	0	22	15	1	7
72+50	50	12	0	2	1	21	0	4	1	43	20	3	23
73+00	50	10	0	18	1	20	0	19	1	64	43	4	20
73+50	50	92	16	96	5	94	15	106	5	158	175	10	-32
74+00	50	85	16	64	4	164	30	148	8	322	360	20	-84
74+50	50	94	16	37	5	166	30	94	8	488	477	30	-65
75+00	50	80	16	50	4	161	30	81	8	649	578	41	-35
75+50	50	100	16	9	5	167	30	55	8	815	646	51	33
76+00	50	102	16	24	5	187	30	31	9	1,002	684	63	152
76+50	50	119	16	29	6	205	30	49	10	1,207	746	75	265
76+92	42	155	16	30	8	213	25	46	11	1,420	803	89	396
77+00	8	157	16	31	8	46	5	9	2	1,466	814	92	426
77+29	29	166	16	1	8	173	18	17	9	1,640	836	102	560
77+41	12	162	16	0	8	73	7	0	4	1,713	836	107	625
77+50	9	160	16	1	8	54	5	0	3	1,766	836	110	673
78+00	50	48	16	6	2	193	30	6	10	1,959	844	122	828
78+50	50	66	0	1	3	106	15	6	5	2,065	852	129	910
79+00	50	76	0	1	4	131	0	2	7	2,196	855	137	1,039
79+50	50	61	11	1	3	127	10	2	6	2,323	857	145	1,154
80+00	50	54	11	1	3	106	20	2	5	2,429	859	152	1,238
80+50	50	65	11	1	3	110	20	2	6	2,540	862	159	1,326
81+00	50	112	11	2	6	164	20	3	8	2,703	865	169	1,467
81+50	50	94	11	1	5	191	20	3	10	2,894	869	181	1,635
82+00	50	92	11	1	5	172	20	2	9	3,066	871	192	1,785
82+50	50	88	11	5	4	167	20	6	8	3,233	878	202	1,925
83+00	50	78	11	6	4	154	20	10	8	3,387	891	212	2,046
83+50	50	76	11	12	4	143	20	17	7	3,529	912	221	2,148
83+75	25	73	2	28	4	69	6	19	3	3,598	935	225	2,188
84+00	25	13	2	26	1	40	2	25	2	3,638	966	227	2,195
84+50	50	13	2	24	1	24	4	46	1	3,662	1,024	229	2,157
85+00	50	14	2	24	1	25	4	44	1	3,687	1,079	230	2,123
85+50	50	13	2	27	1	25	4	47	1	3,712	1,138	232	2,085
86+00	50	13	2	26	1	24	4	49	1	3,736	1,200	234	2,045
86+50	50	14	2	25	1	25	4	47	1	3,761	1,259	235	2,007
87+00	50	14	2	26	1	26	4	47	1	3,787	1,318	237	1,970
87+50	50	14	2	26	1	26	4	48	1	3,813	1,378	238	1,932
88+00	50	14	2	26	1	26	4	48	1	3,839	1,438	240	1,895
88+50	50	14	2	24	1	26	4	46	1	3,865	1,496	242	1,859
89+00	50	14	2	23	1	26	4	44	1	3,891	1,550	243	1,827
89+50	150	16	2	8	1	81	11	113	4	3,920	1,691	245	1,756
				COLUMN TOTALS		3,971	524	1,353	199				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

VR		AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)				
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	FILL FROM EXCAVATION SPECIAL (STORAGE)	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	FILL FROM EXCAVATION SPECIAL (STORAGE)	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED FILL FROM EXCAVATION SPECIAL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
975+15	-	39	3	0	0	2	0	0	0	0	0	0	0	0	0	0
975+50	35	33	3	0	0	2	47	4	0	0	2	47	0	0	3	43
976+00	50	34	3	0	0	2	63	6	0	0	3	109	0	0	7	100
976+50	50	31	3	0	0	2	61	6	0	0	3	170	0	0	11	155
977+00	50	32	3	0	0	2	58	6	0	0	3	229	0	0	14	208
977+50	50	32	3	0	0	2	59	6	0	0	3	288	0	0	18	262
978+00	50	31	3	0	0	2	59	6	0	0	3	347	0	0	22	315
978+50	50	31	3	0	0	2	58	6	0	0	3	405	0	0	25	367
979+00	50	29	3	0	0	1	55	6	0	0	3	460	0	0	29	417
979+50	50	29	3	0	0	1	53	6	0	0	3	514	0	0	32	465
980+00	50	30	3	0	0	2	55	6	0	0	3	569	0	0	36	515
980+50	50	30	3	0	0	1	56	6	0	0	3	625	0	0	39	565
981+00	50	30	3	0	0	1	55	6	0	0	3	680	0	0	42	614
981+50	50	30	3	0	0	1	55	6	0	0	3	735	0	0	46	664
982+00	50	31	3	0	0	2	57	6	0	0	3	791	0	0	49	715
982+50	50	31	3	29	0	2	58	6	27	0	3	849	34	0	53	733
983+00	50	30	3	45	0	2	57	6	69	0	3	906	120	0	57	698
983+50	50	29	3	76	0	1	55	6	113	0	3	961	261	0	60	606
983+70	20	29	3	0	0	1	21	2	28	0	1	982	297	0	61	590
984+00	30	34	3	0	600	2	35	3	0	333	2	1017	297	416	64	205
984+50	50	39	3	0	550	2	67	6	0	1064	3	1084	297	1747	68	-1064
985+00	50	42	3	0	704	2	75	6	0	1161	4	1159	297	3198	72	-2446
985+50	50	44	3	0	885	2	80	6	0	1471	4	1239	297	5037	77	-4211
986+00	50	43	3	0	1016	2	81	6	0	1760	4	1319	297	7237	82	-6335
986+50	50	43	3	0	1015	2	79	6	0	1881	4	1399	297	9588	87	-8613
986+85	35	62	3	0	733	3	68	4	0	1133	3	1467	297	11004	91	-9965
987+00	15	3	0	0	623	0	18	1	0	377	1	1485	297	11475	93	-10418
988+33	---	0	0	0	0	0	0	0	0	0	0	1485	297	11475	93	-10418
988+50	17	0	0	0	606	0	0	0	0	191	0	1485	297	11713	93	-10656
989+00	50	0	0	0	807	0	0	0	0	1308	0	1485	297	13348	93	-12291
989+50	50	0	0	0	757	0	0	0	0	1448	0	1485	297	15158	93	-14102
990+00	50	0	0	0	684	0	0	0	0	1334	0	1485	297	16826	93	-15769
990+50	50	0	0	0	466	0	0	0	0	1065	0	1485	297	18157	93	-17100
991+00	50	0	0	0	302	0	0	0	0	711	0	1485	297	19045	93	-17989
991+50	50	0	0	0	0	0	0	0	0	279	0	1485	297	19394	93	-18338
		COLUMN TOTALS					1485	132	237	15515	74					

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

FP		AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)				
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	BACKFILL GRANULAR	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	BACKFILL GRANULAR	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	BACKFILL GRANULAR 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
11+11		0	11	0	0	0	0	0	0	0	0	0	0	0	0	0
11+50	39	17	11	0	0	1	12	16	0	0	1	12	0	0	1	-3
12+00	50	52	11	0	0	3	64	20	0	0	3	77	0	0	5	41
12+50	50	51	0	1	0	3	95	10	1	0	5	172	1	0	11	126
13+00	50	61	0	2	0	3	103	0	3	0	5	275	5	0	17	225
13+50	50	66	0	0	0	3	117	0	2	0	6	392	7	0	25	340
14+00	50	197	0	0	0	10	243	0	0	0	12	636	7	0	40	584
14+50	50	265	4	39	0	13	427	4	36	0	21	1,063	51	0	66	963
15+00	50	81	4	124	0	4	320	8	150	0	16	1,383	239	0	86	1,087
15+50	50	125	4	88	0	6	191	8	196	0	10	1,574	484	0	98	1,026
16+00	50	86	4	75	0	4	195	8	150	0	10	1,769	672	0	111	1,025
16+50	50	71	4	70	0	4	145	8	134	0	7	1,915	839	0	120	996
17+00	50	101	4	82	0	5	159	8	140	0	8	2,074	1,014	0	130	972
17+50	50	210	4	39	0	11	288	8	112	0	14	2,362	1,153	0	148	1,113
18+00	50	175	4	1	20	9	357	8	37	19	18	2,719	1,199	23	170	1,416
18+50	50	30	4	35	28	1	190	8	33	44	9	2,908	1,241	79	182	1,557
19+00	50	3	0	72	42	0	30	4	99	65	2	2,938	1,365	160	184	1,459
19+50	50	2	0	36	77	0	4	0	101	110	0	2,943	1,490	297	184	1,337
20+00	50	21	0	22	92	1	21	0	54	156	1	2,963	1,558	493	185	1,290
20+50	50	37	0	0	0	2	54	0	21	85	3	3,017	1,584	600	189	1,319
21+00	50	28	0	0	0	1	60	0	0	0	3	3,078	1,584	600	192	1,379
21+47	47	0	0	0	0	0	24	0	0	0	1	3,102	1,584	600	194	1,403
				COLUMN TOTALS			3,102	115	1,267	480	155					

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

TL		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
10+16		99	0	0	5	0	0	0	0	0	0	0	0
10+50	34	66	0	0	3	104	0	0	5	104	0	6	104
10+99	49	42	0	0	2	98	0	0	5	202	0	13	202
				COLUMN TOTALS		202	0	0	10				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

CW		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
10+13		0	0	0	0	0	0	0	0	0	0	0	0
10+50	37	6	13	8	0	4	0	5	0	4	6	0	-2
11+00	50	9	13	1	0	14	24	8	1	18	16	1	-22
11+50	50	20	0	0	1	27	0	1	1	44	17	3	4
11+73	23	16	0	0	1	15	0	0	1	60	17	4	19
				COLUMN TOTALS		60	24	13	3				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

BP		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
17+36		0	0	1	0	0	0	0	0	0	0	0	0
17+50	14	5	0	0	0	1	0	0	0	1	0	0	1
18+00	50	50	13	0	3	51	0	0	3	52	1	3	51
18+50	50	49	13	1	2	92	25	1	5	144	2	9	118
18+60	10	58	13	0	3	20	5	0	1	164	2	10	133
19+00	40	45	13	7	2	76	20	5	4	240	8	15	183
19+50	50	42	13	0	2	81	25	7	4	321	17	20	230
19+81	31	44	13	0	2	49	15	0	2	370	17	23	264
				COLUMN TOTALS		370	89	14	19				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

NP		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
10+00		15	0	2	1	0	0	0	0	0	0	0	0
10+25	25	15	0	13	1	14	0	7	1	14	8	1	6
10+50	25	19	0	4	1	16	0	8	1	30	18	2	12
10+75	25	10	0	7	0	13	0	5	1	44	24	3	20
10+93	18	0	0	0	0	3	0	2	0	47	27	3	20
				COLUMN TOTALS		47	0	21	2				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

UH		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
10+00		0	7	0	0	0	0	0	0	0	0	0	0
10+50	50	41	7	1	2	38	13	1	2	38	1	2	24
11+00	50	29	7	2	1	64	13	2	3	102	4	6	72
11+50	50	26	7	2	1	50	13	3	3	152	8	10	106
12+00	50	31	7	1	2	53	13	3	3	205	11	13	142
12+50	50	32	7	1	2	58	13	2	3	263	14	16	185
13+00	50	40	7	2	2	66	13	3	3	330	18	21	234
13+50	50	30	7	21	1	64	13	21	3	394	45	25	259
				COLUMN TOTALS		394	90	36	20				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

EE		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
93+59		0	0	0	0	0	0	0	0	0	0	0	0
94+00	41	0	0	2	0	0	0	2	0	0	2	0	-2
94+50	50	0	0	7	0	0	0	8	0	0	12	0	-12
95+00	50	0	0	9	0	0	0	14	0	0	30	0	-30
95+50	50	0	0	12	0	0	0	19	0	0	54	0	-54
96+00	50	0	0	4	0	0	0	15	0	1	73	0	-72
96+50	50	3	0	0	0	3	0	4	0	4	78	0	-74
97+00	50	7	0	0	0	10	0	0	0	13	78	1	-65
97+50	50	11	0	0	1	17	0	0	1	30	78	2	-48
98+00	50	18	0	0	1	27	0	0	1	58	78	4	-21
98+47	47	4	0	0	0	20	0	0	1	77	78	5	-1
				COLUMN TOTALS		77	0	63	4				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

K		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
78+02		2	0	2	0	0	0	0	0	0	0	0	0
78+25	23	1	0	1	0	1	0	2	0	1	2	0	0
78+50	25	1	0	0	0	1	0	1	0	3	3	0	0
78+75	25	4	0	0	0	2	0	0	0	5	3	0	2
79+00	25	4	0	1	0	4	0	0	0	9	3	1	5
79+25	25	9	0	0	0	6	0	0	0	15	4	1	10
79+50	25	0	0	13	0	4	0	6	0	19	11	1	7
79+75	25	0	0	11	0	0	0	11	0	19	25	1	-7
80+00	25	0	0	15	0	0	0	12	0	19	41	1	-22
80+25	25	0	0	18	0	0	0	15	0	19	59	1	-41
80+50	25	0	0	20	0	0	0	17	0	19	81	1	-63
80+75	25	0	0	21	0	0	0	19	0	19	104	1	-86
81+00	25	0	0	25	0	0	0	21	0	19	131	1	-112
81+25	25	0	0	31	0	0	0	26	0	19	163	1	-144
81+50	25	0	0	37	0	0	0	31	0	19	202	1	-183
81+75	25	0	0	47	0	0	0	39	0	19	251	1	-232
82+00	75	0	0	57	0	0	0	145	0	19	432	1	-413
				COLUMN TOTALS		19	0	346	1				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

PB		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
101+54		26	3	0	1	0	0	0	0	0	0	0	0
102+00	46	29	2	0	1	47	5	0	2	47	0	3	42
102+50	50	29	1	0	1	53	2	0	3	100	0	6	93
103+00	50	33	0	0	2	57	1	0	3	157	0	10	150
103+50	50	35	0	0	2	63	0	0	3	221	0	14	213
104+00	50	37	0	0	2	67	0	0	3	287	0	18	280
104+50	50	23	0	0	1	56	0	0	3	343	0	21	336
105+00	50	16	0	0	1	36	0	0	2	380	0	24	372
105+25	25	14	0	0	1	14	0	0	1	394	0	25	386
				COLUMN TOTALS		394	7	0	20				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

MPB		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
101+15		11	0	0	1	0	0	0	0	0	0	0	0
101+50	35	11	0	6	1	15	0	4	1	15	5	1	10
102+00	50	11	0	9	1	21	0	14	1	35	22	2	13
102+50	50	11	0	11	1	20	0	18	1	55	45	3	10
103+00	50	7	0	9	0	17	0	18	1	72	68	4	4
103+07	7	7	0	3	0	2	0	2	0	74	70	5	4
				COLUMN TOTALS		74	0	56	4				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

MFH		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
92+50		9	0	3	0	0	0	0	0	0	0	0	0
93+00	50	9	0	2	0	17	0	4	1	17	5	1	11
93+50	50	19	0	7	1	26	0	8	1	43	16	3	27
94+00	50	18	0	6	1	35	0	12	2	78	31	5	47
94+50	50	17	0	10	1	33	0	15	2	111	50	7	61
95+00	50	17	0	12	1	32	0	21	2	142	76	9	66
95+37	37	21	0	8	1	26	0	14	1	168	94	11	74
95+50	13	32	0	8	2	13	0	4	1	181	98	11	83
96+00	50	20	0	12	1	49	0	18	2	229	121	14	108
96+50	50	24	0	12	1	41	0	22	2	270	148	17	122
97+00	50	27	0	8	1	47	0	19	2	317	172	20	145
97+50	50	15	0	13	1	39	0	20	2	356	196	22	160
98+00	50	34	0	4	2	46	0	16	2	402	216	25	186
98+50	50	15	0	13	1	46	0	16	2	448	236	28	212
99+00	50	20	0	3	1	32	0	15	2	480	255	30	225
RADII	56	47	0	23	2	69	0	27	3	549	289	34	260
RADII	---	45	0	38	2	---	---	---	---	---	---	---	---
101+00	54	19	0	5	1	64	0	42	3	613	342	38	266
101+50	50	24	0	9	1	39	0	13	2	652	359	41	290
102+00	50	23	0	10	1	43	0	18	2	695	381	43	310
102+50	50	24	0	13	1	43	0	21	2	738	408	46	326
103+00	50	25	0	15	1	45	0	26	2	784	440	49	340
103+50	50	30	0	8	2	51	0	21	3	835	467	52	364
104+00	50	33	0	16	2	59	0	22	3	893	494	56	395
104+12	12	39	0	9	2	16	0	5	1	909	501	57	404
104+50	38	33	0	24	2	51	0	23	3	960	530	60	426
105+00	50	38	0	15	2	66	0	36	3	1026	576	64	446
105+50	50	51	0	15	3	82	0	27	4	1108	610	69	494
106+00	50	40	0	9	2	84	0	22	4	1193	638	75	551
106+50	50	29	0	6	1	64	0	14	3	1257	655	79	598
106+62	12	23	0	2	1	12	0	2	1	1269	657	79	607
107+00	38	11	0	0	1	23	0	2	1	1292	660	81	628
107+50	50	8	0	2	0	17	0	2	1	1309	662	82	643
				COLUMN TOTALS		1309	0	530	65				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

FHM		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
93+50		16	1	0	1	0	0	0	0	0	0	0	0
94+00	50	17	1	1	1	31	1	1	2	31	1	2	28
94+50	50	17	1	1	1	31	1	2	2	62	3	4	57
95+00	50	19	1	0	1	34	1	1	2	96	5	6	88
95+50	50	36	1	1	2	51	1	1	3	147	6	9	137
95+85	35	39	1	0	2	49	1	1	2	196	8	12	184
96+00	15	37	1	2	2	21	0	1	1	217	8	14	204
96+50	50	30	1	7	1	62	1	8	3	279	19	17	255
97+00	50	25	1	11	1	50	1	17	3	330	40	21	283
97+50	50	27	1	7	1	47	1	17	2	377	61	24	308
97+68	18	38	1	4	2	21	0	4	1	399	66	25	325
97+84	16	47	1	3	2	25	0	2	1	423	68	26	347
98+00	16	44	1	2	2	27	0	2	1	451	70	28	372
98+50	50	36	1	2	2	74	1	4	4	525	76	33	440
98+85	35	31	1	2	2	44	1	3	2	569	79	36	480
99+00	15	24	1	7	1	15	0	3	1	584	83	36	491
RADII	56	39	1	32	2	66	1	41	3	649	134	41	504
RADII	---	52	1	28	3	---	---	---	---	---	---	---	---
101+00	55	22	1	7	1	75	1	36	4	725	179	45	534
101+50	50	35	1	6	2	53	1	12	3	778	194	49	570
101+69	19	61	1	2	3	34	0	3	2	812	197	51	601
102+00	31	53	1	1	3	65	1	2	3	877	200	55	663
102+50	50	76	1	0	4	119	1	1	6	996	201	62	780
103+00	50	76	1	0	4	141	1	0	7	1137	201	71	920
103+50	50	61	1	2	3	127	1	2	6	1264	203	79	1044
104+00	50	74	1	1	4	125	1	3	6	1389	207	87	1164
104+50	50	89	1	2	4	151	1	3	8	1540	210	96	1311
105+00	50	68	1	0	3	145	1	2	7	1685	212	105	1453
105+50	50	86	1	2	4	143	1	2	7	1828	215	114	1592
106+00	50	40	1	0	2	117	1	2	6	1944	217	122	1706
106+50	50	21	1	3	1	56	1	3	3	2001	220	125	1758
				COLUMN TOTALS		2001	22	176	100				

NOTES:

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4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

WFH		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
97+50		17	0	1	1	0	0	0	0	0	0	0	0
98+00	50	15	0	2	1	30	0	2	1	30	3	2	27
98+45	45	25	0	2	1	33	0	3	2	63	6	4	57
99+00	55	23	0	12	1	49	0	13	2	112	23	7	89
RADII	64	127	0	208	6	177	0	260	9	289	347	18	-58
				COLUMN TOTALS		289	0	278	14				

NOTES:

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3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

LR		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
97+00		3	0	0	0	0	0	0	0	0	0	0	0
97+50	50	3	0	1	0	6	0	2	0	6	2	0	4
98+00	50	8	0	0	0	10	0	1	1	16	4	1	12
98+50	50	3	0	1	0	10	0	1	1	26	5	2	21
99+00	50	18	0	5	1	19	0	6	1	45	12	3	33
99+50	50	16	0	5	1	31	0	10	2	77	25	5	52
RADII	8	23	0	29	1	6	0	5	0	82	31	5	51
RADII	---	46	0	39	2	---	---	---	---	---	---	---	---
100+50	16	46	2	10	2	27	1	14	1	110	49	7	60
101+00	50	46	2	10	2	85	4	19	4	195	73	12	118
101+50	50	24	2	9	1	65	4	18	3	260	95	16	157
102+00	50	23	2	11	1	44	4	19	2	304	118	19	174
102+50	50	20	2	11	1	40	4	21	2	344	144	22	184
103+00	50	21	2	10	1	38	4	19	2	382	168	24	194
103+50	50	2	2	11	0	21	4	19	1	404	192	25	187
				COLUMN TOTALS		404	25	153	20				

NOTES:

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3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

FHW		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
96+00		22	2	3	1	0	0	0	0	0	0	0	0
96+11	11	25	2	2	1	10	1	1	0	10	1	1	8
96+40	29	25	2	16	1	27	2	10	1	36	13	2	20
97+00	60	25	2	54	1	56	4	78	3	92	111	6	-25
97+50	50	33	2	39	2	54	3	86	3	146	218	9	-83
98+00	50	39	2	23	2	67	3	57	3	212	290	13	-91
98+50	50	26	2	41	1	60	3	59	3	273	364	17	-109
99+00	50	24	2	52	1	46	3	86	2	319	472	20	-173
99+50	50	27	2	94	1	47	3	135	2	366	641	23	-299
RADII	23	59	0	125	3	37	1	94	2	403	759	25	-380
RADII	---	68	0	83	3	---	---	---	---	---	---	---	---
100+50	36	47	1	43	2	77	1	84	4	480	864	30	-410
101+00	50	54	1	9	3	94	3	48	5	573	924	36	-379
101+50	50	125	1	1	6	166	3	9	8	739	936	46	-228
102+00	50	174	1	2	9	277	3	3	14	1016	939	63	43
102+50	50	133	1	2	7	284	3	4	14	1300	944	81	320
103+00	50	33	1	8	2	154	3	9	8	1454	955	91	460
103+33	33	38	1	1	2	43	2	6	2	1497	962	94	495
103+50	17	28	1	14	1	21	1	5	1	1518	968	95	509
104+00	50	30	1	9	1	53	3	22	3	1571	995	98	533
104+50	50	27	1	14	1	53	3	21	3	1624	1022	101	556
105+00	50	28	1	20	1	51	3	32	3	1675	1061	105	565
105+50	50	26	1	43	1	51	3	59	3	1726	1135	108	540
106+00	50	0	1	95	0	24	3	128	1	1750	1295	109	402
106+50	50	0	1	301	0	0	3	367	0	1750	1754	109	-60
107+00	50	0	1	148	0	0	3	416	0	1750	2274	109	-582
107+50	50	0	1	129	0	0	3	257	0	1750	2595	109	-906
108+00	50	0	1	113	0	0	3	225	0	1750	2875	109	-1189
108+50	50	0	1	34	0	0	3	136	0	1750	3046	109	-1362
				COLUMN TOTALS		1750	67	2436	88				

NOTES:

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4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

SL		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
91+00		14	0	33	1	0	0	0	0	0	0	0	0
91+50	50	15	0	31	1	28	0	59	1	28	74	2	-46
91+90	40	25	0	24	1	30	0	40	1	58	125	4	-67
92+00	10	19	0	24	1	8	0	9	0	66	136	4	-70
92+50	50	18	0	33	1	34	0	53	2	100	201	6	-102
93+00	50	15	0	35	1	31	0	63	2	130	281	8	-150
93+50	50	15	0	37	1	28	0	67	1	159	364	10	-205
94+00	50	16	0	37	1	29	0	68	1	188	449	12	-261
94+50	50	16	0	43	1	30	0	74	2	218	542	14	-324
95+00	50	17	0	42	1	31	0	79	2	249	640	16	-391
95+50	50	19	0	35	1	33	0	72	2	283	730	18	-447
96+00	50	18	0	30	1	34	0	61	2	316	806	20	-489
96+50	50	17	0	22	1	32	0	48	2	348	866	22	-518
97+00	50	18	0	12	1	33	0	32	2	381	906	24	-525
97+50	50	21	0	4	1	36	0	15	2	417	925	26	-508
98+00	50	25	0	1	1	42	0	5	2	460	931	29	-471
98+50	50	31	0	3	2	52	0	4	3	511	935	32	-424
99+00	50	35	0	5	2	61	0	7	3	573	944	36	-371
RADII	67	33	0	40	2	84	0	55	4	657	1012	41	-355
RADII	---	36	0	28	2	---	---	---	---	---	---	---	---
101+00	64	46	2	2	2	97	3	35	5	754	1057	47	-305
101+50	50	56	2	2	3	95	4	4	5	849	1062	53	-220
102+00	50	32	2	1	2	82	4	3	4	931	1065	58	-145
102+50	50	27	2	1	1	55	4	2	3	986	1067	62	-96
103+00	50	26	2	1	1	49	4	2	2	1035	1069	65	-53
103+50	50	20	2	2	1	42	4	2	2	1078	1072	67	-18
104+00	50	17	2	2	1	34	4	4	2	1111	1077	69	6
104+50	50	14	2	6	1	28	4	7	1	1139	1086	71	21
105+00	50	14	2	7	1	26	4	11	1	1166	1100	73	29
105+50	50	11	2	5	1	24	4	11	1	1189	1114	74	34
106+00	50	15	2	5	1	24	4	9	1	1214	1126	76	42
106+35	35	11	2	6	1	17	3	7	1	1230	1135	77	47
106+50	15	18	2	1	1	8	1	2	0	1238	1137	77	51
107+00	50	15	2	1	1	30	4	2	2	1268	1140	79	74
				COLUMN TOTALS		1268	54	912	63				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

PD		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
93+47		11	0	0	1	0	0	0	0	0	0	0	0
93+50	3	11	0	0	1	1	0	0	0	1	0	0	1
94+00	50	17	0	0	1	26	1	0	1	27	0	2	27
94+50	50	24	0	0	1	39	1	0	2	66	0	4	65
95+00	50	27	0	0	1	48	1	0	2	114	0	7	112
95+50	50	27	0	0	1	51	1	0	3	165	0	10	162
96+00	50	27	0	0	1	51	1	0	3	216	0	13	213
96+50	50	27	1	0	1	51	1	0	3	266	0	17	262
97+00	50	27	2	0	1	51	3	0	3	317	0	20	310
97+50	50	27	3	0	1	51	5	0	3	368	0	23	356
98+00	50	27	4	0	1	51	7	0	3	419	0	26	400
				COLUMN TOTALS		419	19	0	21				

NOTES:

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3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

SP		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
97+07		15	1	0.0	1	0	0	0	0	0	0	0	0
97+50	43	15	1	0	1	24	1	0	1	24	0	1	23
98+00	50	16	1	0	1	29	1	0	1	53	0	3	51
98+16	16	21	1	0	1	11	0	0	1	64	0	4	61
98+50	34	15	1	0	1	22	1	0	1	86	0	5	83
99+00	50	54	1	0	3	63	1	0	3	150	0	9	145
99+50	50	92	1	0	5	135	1	0	7	285	0	18	279
99+57	7	92	1	0	5	24	0	0	1	308	0	19	302
				COLUMN TOTALS		308	6	0	15				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

SS		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
95+87		10	0	0	1	0	0	0	0	0	0	0	0
96+00	13	11	0	0	1	5	0	0	0	5	0	0	5
96+50	50	20	0	0	1	29	1	0	1	34	0	2	33
97+00	50	27	0	0	1	43	1	0	2	77	0	5	76
97+50	50	31	0	0	2	54	1	0	3	131	0	8	129
98+00	50	27	0	3	1	54	1	3	3	185	3	12	179
98+50	50	25	0	3	1	49	1	6	2	233	10	15	220
99+00	50	20	0	0	1	41	1	3	2	275	15	17	256
99+50	50	15	1	1	1	32	1	1	2	307	15	19	286
100+00	50	50	1	0	3	60	2	0	3	367	16	23	344
100+50	50	29	0	0	1	74	1	0	4	441	16	28	416
101+00	50	27	1	1	1	52	1	1	3	493	17	31	467
101+50	50	27	1	0	1	50	2	1	3	543	19	34	514
102+00	50	28	1	0	1	51	2	0	3	594	19	37	563
102+50	50	27	1	0	1	51	1	1	3	645	20	40	612
103+00	50	17	0	0	1	41	1	0	2	687	20	43	652
103+07	7	29	0	0	1	6	0	0	0	693	20	43	658
103+27	20	10	0	0	1	15	0	0	1	707	20	44	672
				COLUMN TOTALS		707	15	16	35				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

W		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
97+12		8	0	0	0	0	0	0	0	0	0	0	0
97+50	38	21	0	0	1	20	0	0	1	20	0	1	19
98+00	50	27	0	0	1	45	0	0	2	65	0	4	61
98+50	50	27	0	0	1	51	0	0	3	116	0	7	109
100+00		29	4	0	1	0	0	0	0	0	0	0	109
100+50	50	29	2	0	1	54	5	0	3	54	0	3	154
101+00	50	29	0	0	1	54	2	0	3	108	0	7	203
101+50	50	29	0	0	1	54	0	0	3	162	0	10	254
102+00	50	23	0	0	1	48	0	0	2	211	0	13	299
102+50	50	11	0	0	1	31	0	0	2	242	0	15	329
				COLUMN TOTALS		358	7	0	18				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

SRC		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
10+05		0	0	0	0	0	0	0	0	0	0	0	0
11+00	95	2	0	10	0	3	0	18	0	3	23	0	-20
11+24	24	1	0	12	0	1	0	10	0	4	35	0	-31
11+49	25	1	0	8	0	1	0	9	0	5	46	0	-41
11+50	1	1	0	8	0	0	0	0	0	6	47	0	-41
11+74	24	1	0	9	0	1	0	7	0	7	56	0	-49
12+00	26	2	0	10	0	1	0	9	0	8	68	0	-59
12+50	50	1	0	13	0	3	0	21	0	11	94	0	-83
13+00	50	1	0	15	0	2	0	25	0	13	125	0	-112
13+20	20	1	0	15	0	1	0	11	0	14	139	0	-125
13+50	30	1	0	12	0	2	0	15	0	16	158	0	-143
13+70	20	2	0	14	0	1	0	10	0	17	171	0	-154
14+00	30	1	0	9	0	2	0	13	0	18	187	0	-169
14+33	33	0	0	0	0	1	0	6	0	19	194	0	-175
				COLUMN TOTALS		19	0	155	0				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

LD		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
11+85		0	0	0	0	0	0	0	0	0	0	0	0
12+10	25	0	0	21	0	0	0	10	0	0	12	0	-12
12+30	20	0	0	17	0	0	0	14	0	0	30	0	-30
12+55	25	0	0	0	0	0	0	8	0	0	39	0	-39
				COLUMN TOTALS		0	0	32	0				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

GR		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
10+06		0	0	0	0	0	0	0	0	0	0	0	0
11+00	94	3	0	0	0	5	0	0	0	5	0	0	5
11+25	25	4	0	1	0	3	0	0	0	9	1	0	8
11+50	25	5	0	0	0	4	0	0	0	12	1	0	12
11+75	25	4	0	0	0	4	0	0	0	17	1	0	16
12+00	25	4	0	0	0	4	0	0	0	21	1	0	20
12+50	50	4	0	0	0	8	0	0	0	28	1	0	28
13+00	50	3	0	0	0	6	0	0	0	35	1	0	34
13+50	50	2	0	0	0	4	0	0	0	39	1	0	38
13+75	25	3	0	8	0	2	0	4	0	41	6	0	36
14+00	25	1	0	9	0	2	0	8	0	43	15	0	28
14+03	3	0	0	0	0	0	0	0	0	43	16	0	27
				COLUMN TOTALS		43	0	13	0				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

MPR		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)			
STATION	DISTANCE	CUT	UNUSABLE PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	UNUSABLE PAVEMENT MATERIAL	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	MASS ORDINATE NOTE 5
11+65		0	0	0	0	0	0	0	0	0	0	0	0
11+90	25	0	0	34	0	0	0	16	0	0	20	0	-20
12+10	20	0	0	45	0	0	0	29	0	0	56	0	-56
12+35	25	0	0	0	0	0	0	21	0	0	82	0	-82
				COLUMN TOTALS		0	0	65	0				

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) UNUSABLE PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EBS BACKFILL EXPANSION FACTOR = 1.30
5) MASS ORDINATE: MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

MR		AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)					
STATION	DISTANCE	CUT	SALVAGED PAVEMENT MATERIAL	FILL	EBS	GRANULAR EBS	GRANULAR FILL	CUT NOTE 1	SALVAGED PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	EBS GRANULAR NOTE 4	FILL GRANULAR NOTE 5	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 6	REDUCED EBS IN FILL 0.80 NOTE 7	EXPANDED GRANULAR 1.25 NOTE 8	MASS ORDINATE NOTE 9
93+00		14	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
93+25	25	13	0	1	2	0	0	13	0	1	2	0	0	13	1	3	2	0	11
93+50	25	9	0	4	7	0	0	10	0	2	4	0	0	23	4	8	5	0	16
93+75	25	2	0	10	14	0	0	5	0	6	9	0	0	27	12	20	13	0	8
94+00	25	1	0	30	19	0	0	1	0	19	15	0	0	28	35	39	25	0	-21
94+25	25	5	0	65	22	0	0	3	0	44	19	0	0	31	90	62	40	0	-82
94+50	25	5	0	100	25	0	0	5	0	76	22	0	0	36	186	90	57	0	-182
94+75	25	6	0	140	27	0	0	5	0	111	24	0	0	41	324	120	77	0	-326
95+00	25	7	0	92	12	22	21	6	0	108	18	10	10	47	459	142	99	25	-455
95+02	2	7	0	92	12	22	21	1	0	8	1	2	2	48	468	143	101	29	-463
95+21	18	7	0	93	20	27	15	5	0	63	11	17	12	53	547	157	123	65	-529
95+25	4	2	0	89	22	28	13	1	0	15	3	4	2	53	566	161	130	73	-544
95+50	25	3	0	28	18	31	11	2	0	54	18	27	11	56	633	184	166	122	-596
95+75	25	2	0	146	44	33	9	2	0	80	29	30	9	58	734	220	213	170	-684
96+00	25	1	0	170	48	36	6	2	0	146	43	32	7	59	917	274	272	218	-859
96+25	25	1	0	178	51	38	4	1	0	161	46	34	5	61	1,118	331	336	266	-1,052
96+50	25	0	0	185	52	39	3	1	0	168	48	35	3	61	1,328	391	403	315	-1,255
96+75	25	0	0	94	51	83	41	0	0	129	48	56	20	61	1,490	450	486	410	-1,393
97+00	25	0	0	60	54	60	3	0	0	71	49	66	20	61	1,579	511	577	518	-1,451
97+25	25	0	0	69	0	0	0	0	0	59	25	28	1	61	1,654	542	619	555	-1,515
97+50	25	0	0	57	0	0	0	0	0	58	0	0	0	61	1,726	542	619	555	-1,588
97+75	25	0	0	49	0	0	0	0	0	49	0	0	0	61	1,788	542	619	555	-1,649
98+00	25	0	0	41	0	0	0	0	0	42	0	0	0	61	1,840	542	619	555	-1,701
98+25	25	0	0	34	0	0	0	0	0	34	0	0	0	61	1,883	542	619	555	-1,744
98+50	25	0	0	27	0	0	0	0	0	28	0	0	0	61	1,918	542	619	555	-1,779
98+75	25	1	0	20	0	0	0	1	0	22	0	0	0	62	1,946	542	619	555	-1,806
99+00	25	4	0	1	0	0	0	3	0	10	0	0	0	65	1,958	542	619	555	-1,816
99+00	0	0	0	0	0	0	0	0	0	0	0	0	0	65	1,958	542	619	555	-1,816
100+75	175	0	0	0	0	0	0	0	0	0	0	0	0	65	1,958	542	619	555	-1,816
100+75	0	12	0	2	0	0	0	0	0	0	0	0	0	65	1,958	542	619	555	-1,816
101+00	25	11	0	7	15	0	0	11	0	4	7	0	0	75	1,963	551	625	555	-1,814
101+25	25	25	0	10	14	0	0	17	0	8	14	0	0	92	1,974	568	636	555	-1,814
101+50	25	17	0	18	53	74	0	19	0	13	31	34	0	111	1,990	607	688	598	-1,797
101+75	25	17	0	23	66	78	0	16	0	19	55	70	0	127	2,014	676	789	685	-1,774
102+00	25	16	0	27	73	81	0	15	0	23	64	74	0	142	2,043	756	899	778	-1,758
102+25	25	15	0	30	75	84	2	14	0	26	68	77	1	156	2,075	842	1,015	875	-1,745
102+50	25	15	0	34	72	86	5	14	0	29	68	79	3	170	2,112	927	1,133	978	-1,735
102+75	25	13	0	40	67	88	10	13	0	34	64	81	7	184	2,155	1,007	1,249	1,088	-1,729
103+00	25	11	0	47	60	89	15	12	0	40	59	82	12	195	2,205	1,080	1,362	1,205	-1,728
103+25	25	2	0	49	61	91	20	6	0	44	56	83	16	201	2,260	1,151	1,473	1,330	-1,736
103+50	25	1	0	59	57	91	21	1	0	50	55	84	19	203	2,323	1,219	1,584	1,459	-1,754
103+75	25	0	0	68	52	91	25	0	0	59	51	84	22	203	2,396	1,282	1,692	1,591	-1,783
104+00	25	0	0	112	61	42	0	0	0	83	52	61	12	203	2,500	1,348	1,783	1,682	-1,861
104+25	25	0	0	115	52	40	2	0	0	105	52	38	1	203	2,632	1,413	1,856	1,731	-1,986
104+50	25	0	0	31	20	38	5	0	0	68	33	36	3	203	2,716	1,455	1,911	1,780	-2,057
104+75	25	0	0	64	39	39	6	0	0	44	27	35	5	203	2,771	1,489	1,961	1,830	-2,096
105+00	25	0	0	80	73	0	0	0	0	67	52	18	3	203	2,855	1,553	2,017	1,856	-2,188
105+25	25	0	0	53	63	0	0	0	0	61	63	0	0	203	2,931	1,632	2,067	1,856	-2,293
105+50	25	0	0	26	55	0	0	0	0	36	55	0	0	203	2,977	1,701	2,111	1,856	-2,363
105+75	25	8	0	3	44	0	0	4	0	13	46	0	0	207	2,993	1,758	2,148	1,856	-2,397

9

9

PROJECT NO: 1206-07-83 | HWY: USH 18 | COUNTY: DANE | EARTHWORK | SHEET | E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090124_ew.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 49

MR		AREA (SF)						INCREMENTAL VOL (CY) (UNADJUSTED)						CUMULATIVE VOL (CY)					
STATION	DISTANCE	CUT	SALVAGED PAVEMENT MATERIAL	FILL	EBS	GRANULAR EBS	GRANULAR FILL	CUT NOTE 1	SALVAGED PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	GRANULAR EBS NOTE 4	GRANULAR FILL NOTE 5	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED EBS IN FILL 0.80 NOTE 7	EXPANDED GRANULAR 1.3 NOTE 8	MASS ORDINATE NOTE 9
106+00	25	16	0	1	36	0	0	11	0	2	37	0	0	217	2,995	1,805	2,178	1,856	-2,405
106+25	25	14	0	0	37	0	0	14	0	0	34	0	0	231	2,996	1,848	2,205	1,856	-2,407
106+50	25	14	0	1	39	0	0	13	0	1	35	0	0	245	2,996	1,892	2,233	1,856	-2,410
106+75	25	14	0	1	40	0	0	13	0	1	37	0	0	258	2,997	1,937	2,263	1,856	-2,415
107+00	25	13	0	1	43	0	0	12	0	1	39	0	0	270	2,999	1,986	2,293	1,856	-2,421
						COLUMN TOTALS		270	0	2,399	1,588	1,278	207						

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) SALVAGED PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EBS GRANULAR: EBS AREA TO BE FILLED WITH BACKFILL GRANULAR (SEE CONSTUCTION DETAIL)
5) FILL GRANULAR: FILL AREA TO BE FILLED WITH BACKFILL GRANULAR (SEE CONSTRUCTION DETAIL)
6) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH CUT OR BORROW. EBS BACKFILL EXPANSION FACTOR = 1.25
7) REDUCED EBS IN FILL: (EBS + EBS GRANULAR) EXCAVATED EBS MATERIAL IS USABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
8) EXPANDED GRANULAR: (EBS GRANULAR + FILL GRANULAR) THIS AREA IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.25
9) MASS ORDINATE: MASS ORDINATE = (CUT - SALVAGED PAVEMENT MATERIAL) + (EBS + EBS GRANULAR)*(EBS REDUCTION FACTOR)) - (EBS)*(EBS EXPANSION FACTOR))- (FILL * FILL FACTOR)

Y		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
STATION	DISTANCE	CUT	SALVAGED PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	REDUCED EBS IN FILL 0.80 NOTE 5	MASS ORDINATE NOTE 6
10+05		0	0	107	17	0	0	0	0	0	0	0	0	0
10+25	20	0	0	151	23	0	0	95	15	0	118	19	12	-125
10+50	25	1	0	144	23	0	0	136	22	0	289	45	29	-305
10+75	25	2	0	130	23	1	0	127	21	1	448	72	46	-472
11+00	25	1	0	126	23	1	0	119	21	3	596	98	63	-629
11+25	25	0	0	120	23	1	0	114	21	3	738	125	80	-780
11+50	25	0	0	111	23	0	0	107	21	4	872	151	97	-923
11+75	25	1	0	103	23	0	0	99	21	4	996	177	114	-1,056
12+00	25	2	0	96	22	1	0	92	21	6	1,112	203	130	-1,180
12+25	25	4	0	73	19	3	0	79	19	8	1,210	227	145	-1,283
12+50	25	5	0	73	18	4	0	68	17	12	1,295	249	159	-1,372
12+75	25	2	0	65	18	3	0	64	17	15	1,375	269	172	-1,456
13+00	25	0	0	57	18	1	0	56	16	16	1,445	290	185	-1,533
13+25	25	0	0	45	17	0	0	47	16	16	1,504	310	198	-1,600
13+50	25	0	0	35	16	0	0	37	16	16	1,551	330	211	-1,653
13+75	25	5	0	8	10	3	0	20	12	19	1,576	345	221	-1,681
13+89	14	16	0	0	0	6	0	2	3	25	1,579	348	223	-1,679
				COLUMN TOTALS		25	0	1,263	278					

NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) SALVAGED PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.25
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - SALVAGED PAVEMENT MATERIAL) + (EBS + EBS GRANULAR)*(EBS REDUCTION FACTOR)) - (EBS)*(EBS EXPANSION FACTOR))- (FILL * FILL FACTOR)

Z		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
STATION	DISTANCE	CUT	SALVAGED PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.25 NOTE 4	REDUCED EBS IN FILL 0.80 NOTE 5	MASS ORDINATE NOTE 6
06+11		15	0	0	27	0	0	0	0	0	0	0	0	0
06+25	14	0	0	12	62	4	0	3	23	4	4	29	19	-10
06+50	25	0	0	28	66	0	0	18	59	4	27	103	66	-60
06+75	25	1	0	16	60	0	0	20	58	4	52	175	112	-111
07+00	25	1	0	9	58	1	0	11	55	5	66	244	156	-149
07+25	25	2	0	3	56	1	0	5	53	6	73	309	198	-178
07+50	25	3	0	3	54	2	0	3	51	8	76	373	239	-202
07+75	25	2	0	5	55	2	0	4	50	11	81	436	279	-227
08+00	25	1	0	7	55	1	0	5	51	12	88	500	320	-255
08+25	25	0	0	7	56	1	0	7	52	13	96	564	361	-286
08+50	25	1	0	9	57	0	0	7	52	13	105	630	403	-319
08+75	25	0	0	15	56	0	0	11	52	14	119	695	445	-356
09+00	25	0	0	11	56	0	0	12	52	14	134	760	487	-394
09+25	25	0	0	25	59	0	0	17	53	14	155	827	529	-439
09+50	25	0	0	38	60	0	0	29	55	14	191	895	573	-500
09+75	25	0	0	90	65	0	0	59	58	14	265	968	619	-600
09+95	20	0	0	50	42	0	0	52	40	14	330	1,017	651	-683
				COLUMN TOTALS		14	0	264	814					

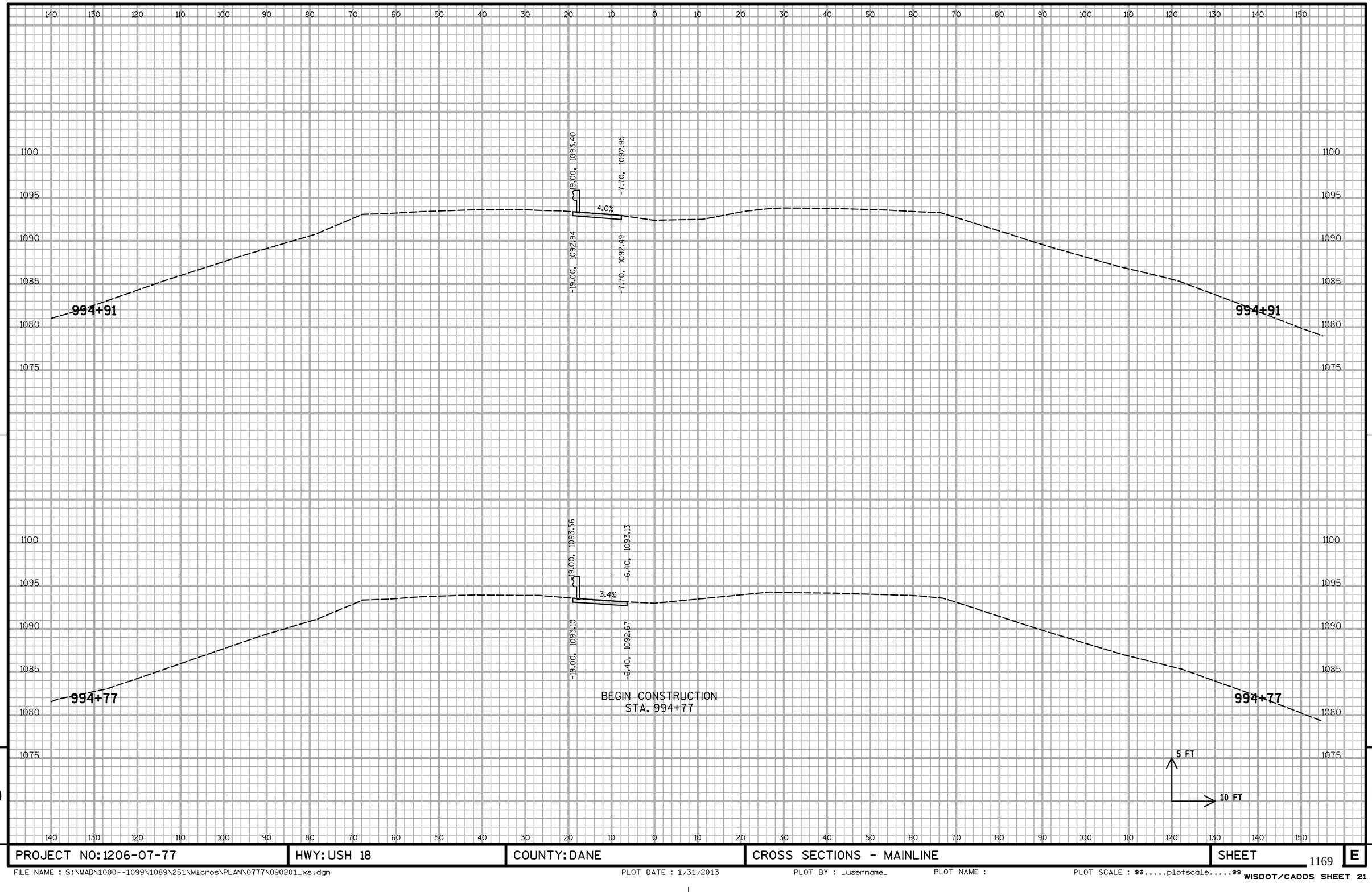
NOTES:

1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) SALVAGED PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.25
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - SALVAGED PAVEMENT MATERIAL) + (EBS + EBS GRANULAR)*(EBS REDUCTION FACTOR)) - (EBS)*(EBS EXPANSION FACTOR))- (FILL * FILL FACTOR)

PD		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATIVE VOL (CY)				
STATION	DISTANCE	CUT	SALVAGED PAVEMENT MATERIAL	FILL	EBS	CUT NOTE 1	SALVAGED PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	EBS	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	EXPANDED EBS BACKFILL 1.30 NOTE 4	REDUCED EBS IN FILL 0.80 NOTE 5	MASS ORDINATE NOTE 6
125+00		18	0	0	0	0	0	0	0	0	0	0	0	0
125+50	50	24	0	1	0	39	0	1	0	39	1	0	0	38
126+00	50	13	0	3	0	34	0	4	0	73	6	0	0	67
126+25	25	17	0	1	0	14	0	2	0	87	8	0	0	79
126+50	25	60	0	2	0	36	0	1	0	123	10	0	0	113
126+75	25	21	0	1	0	38	0	1	0	160	12	0	0	149
127+00	25	11	0	1	0	15	0	1	0	175	13	0	0	162
127+25	25	9	0	0	0	9	0	0	0	184	13	0	0	171
127+50	25	22	0	0	0	14	0	0	0	199	13	0	0	185
				COLUMN TOTALS		199	0	11	0					

NOTES:

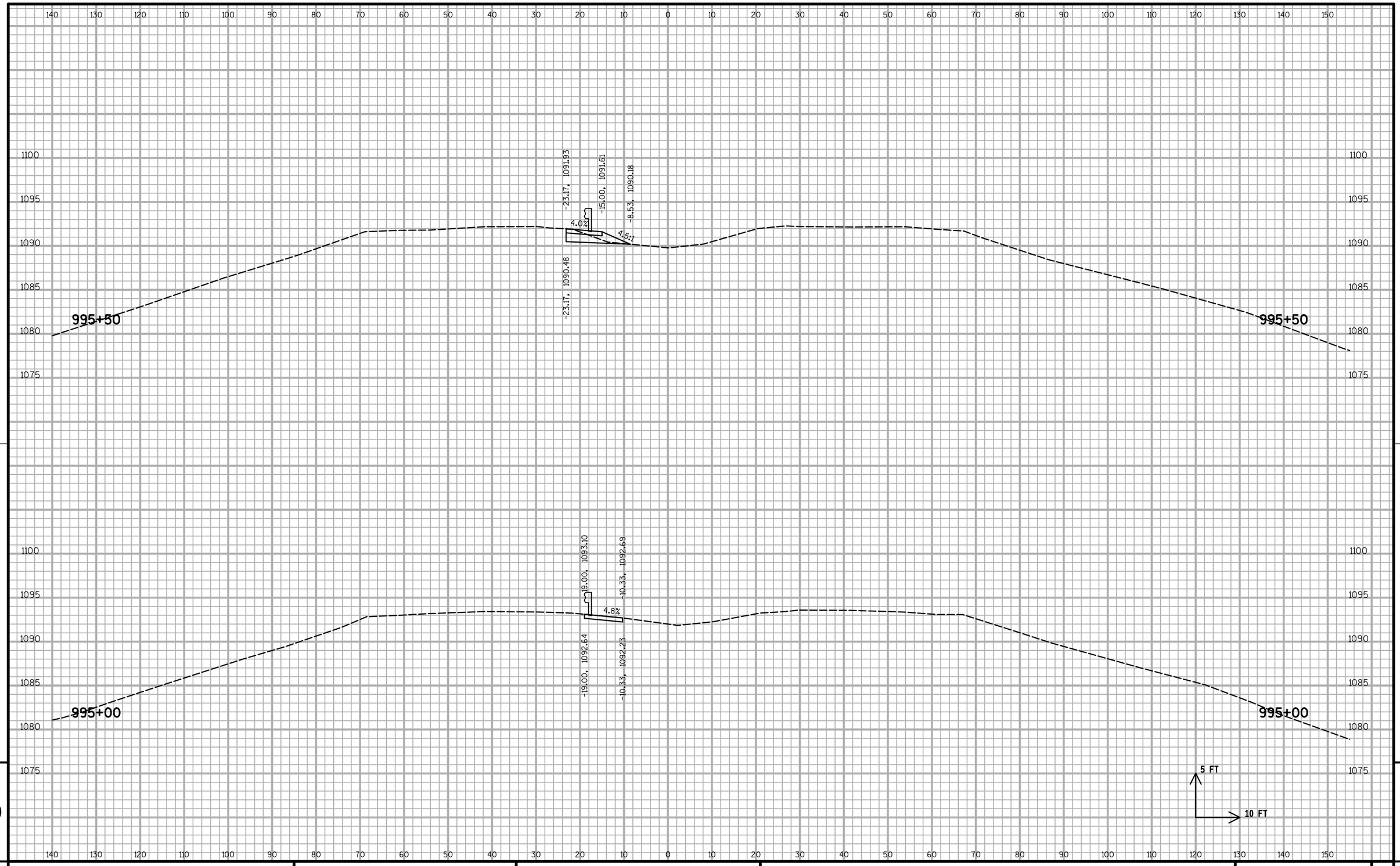
1) CUT: CUT INCLUDES UNUSABLE PAVEMENT MATERIAL
2) SALVAGED PAVEMENT MATERIAL: THIS DOES NOT SHOW UP IN THE CROSS SECTIONS
3) FILL: FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL
4) EXPANDED EBS BACKFILL: THIS IS TO BE FILLED WITH BACKFILL GRANULAR. EBS BACKFILL EXPANSION FACTOR = 1.30
5) REDUCED EBS IN FILL: EXCAVATED EBS MATERIAL IS UNUSABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.80
6) MASS ORDINATE: MASS ORDINATE = (CUT - SALVAGED PAVEMENT MATERIAL) - (FILL * FILL FACTOR)



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1169	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

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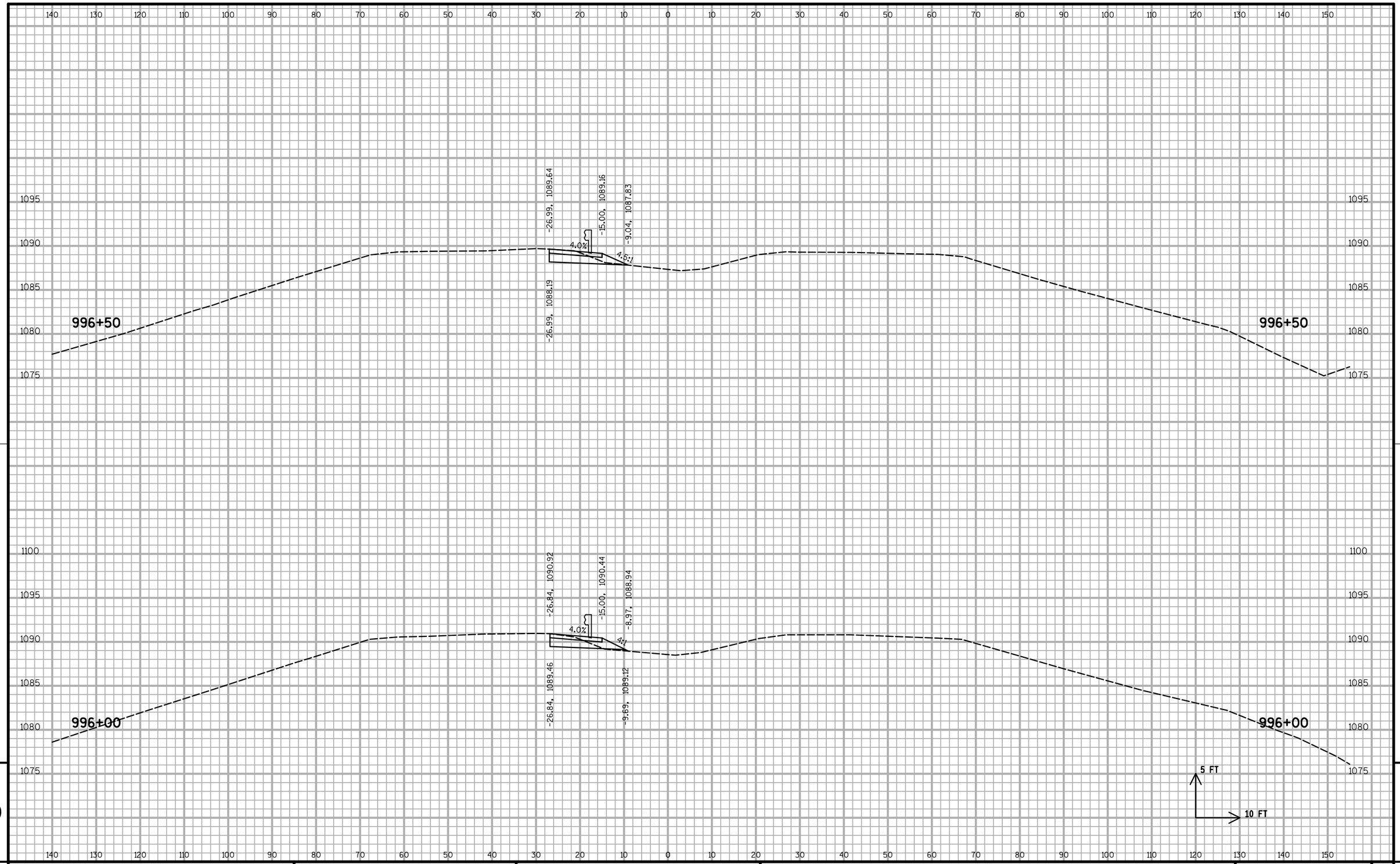


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1170	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

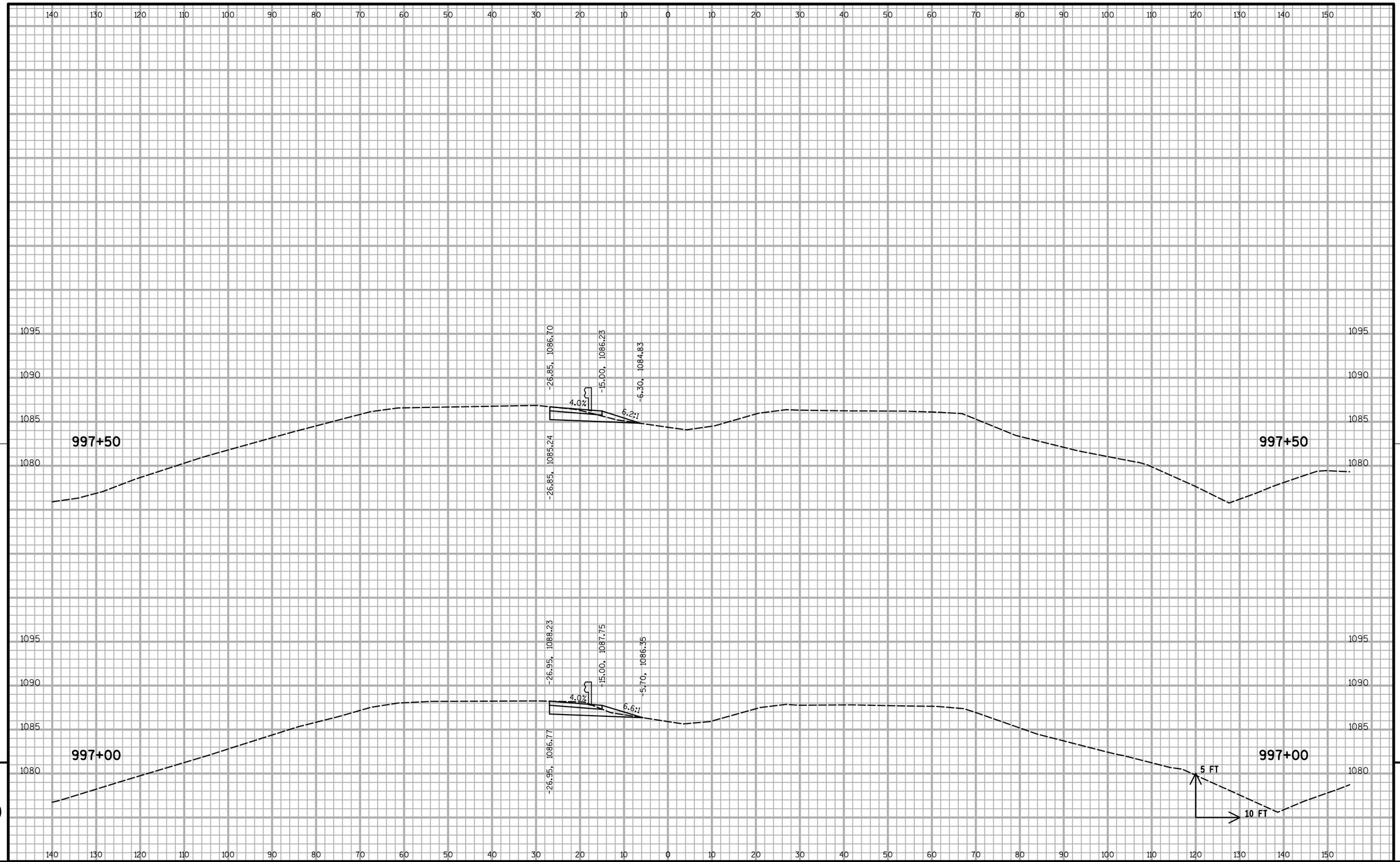


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1171	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

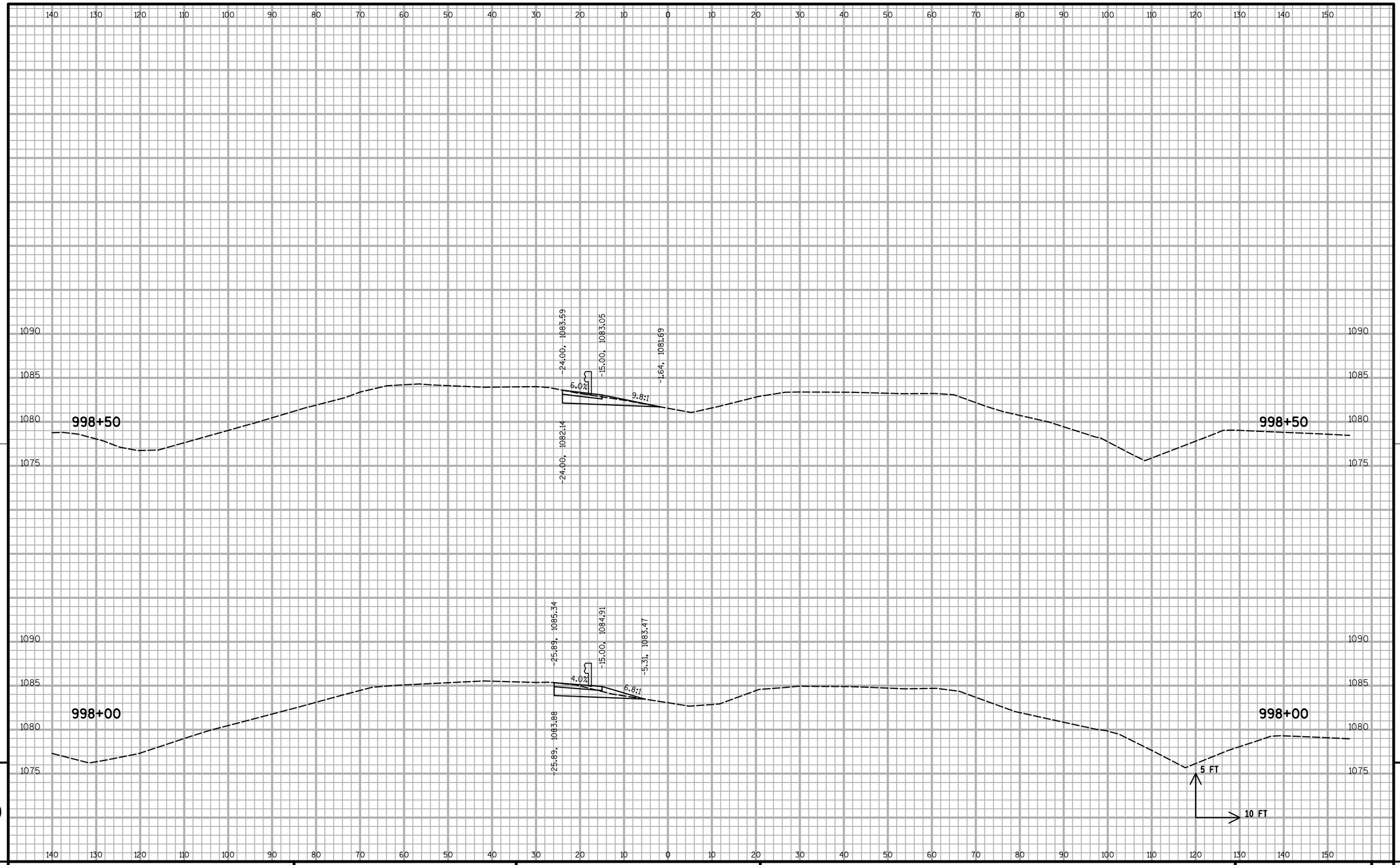


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1172	E

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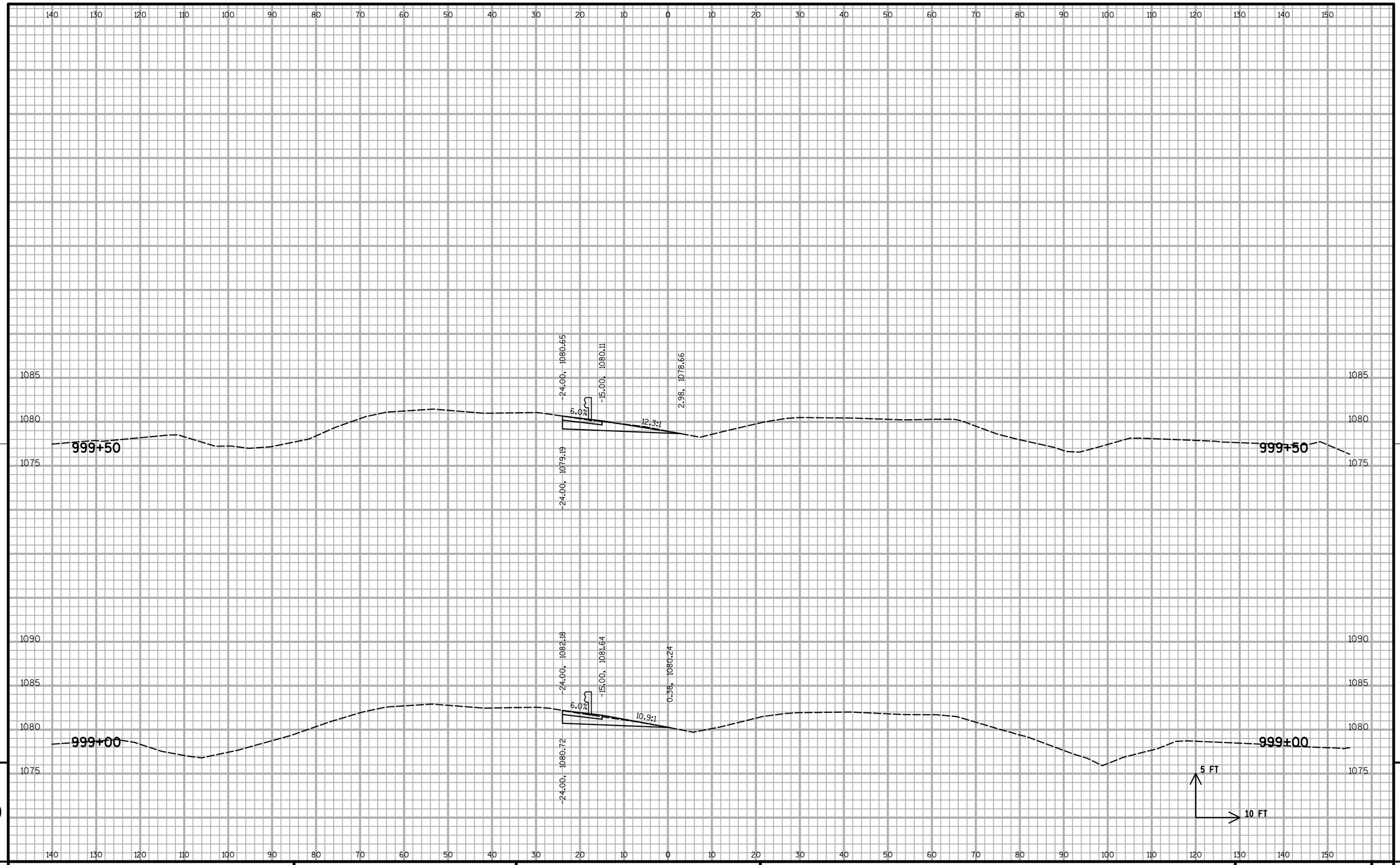


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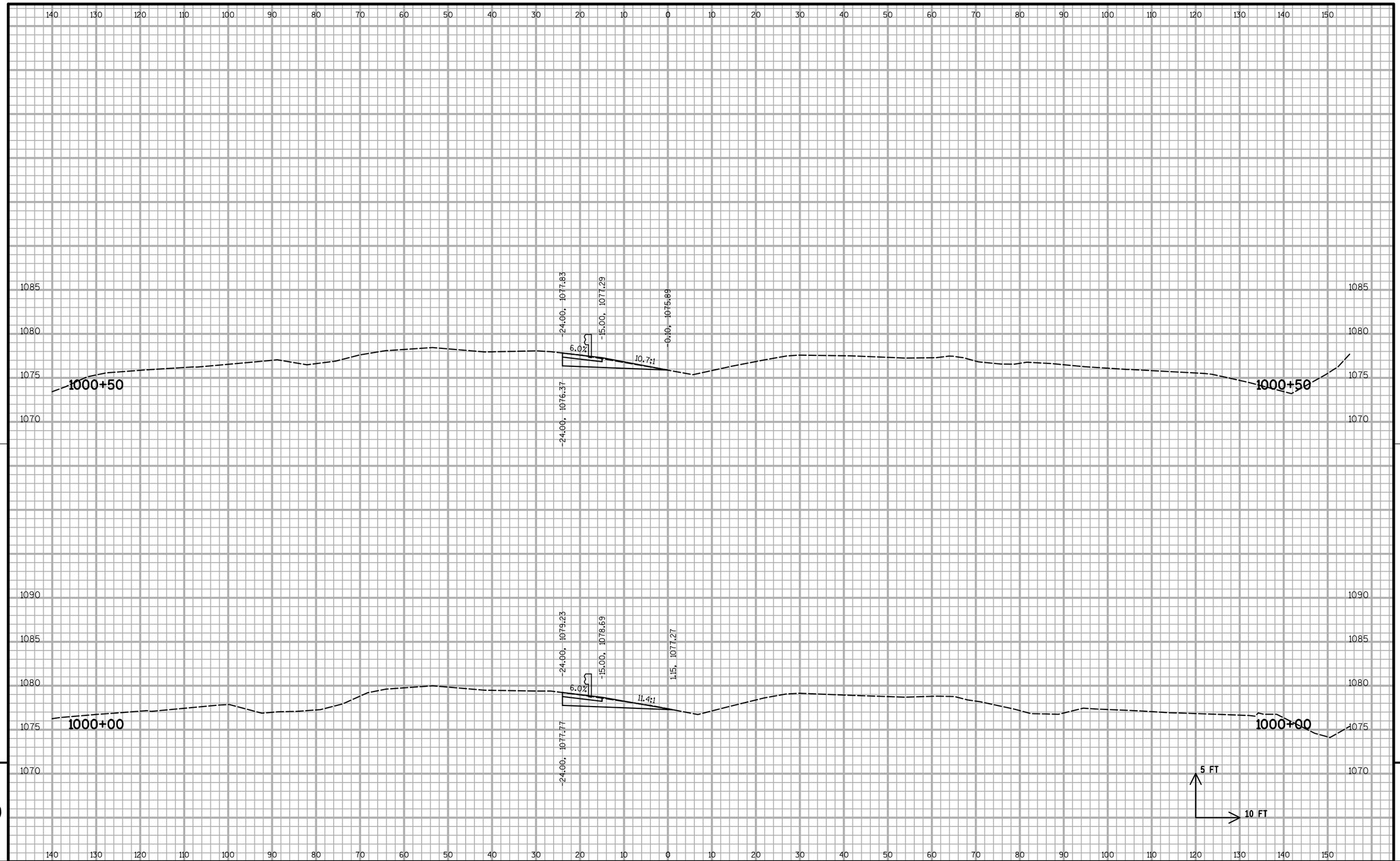
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FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1174	E

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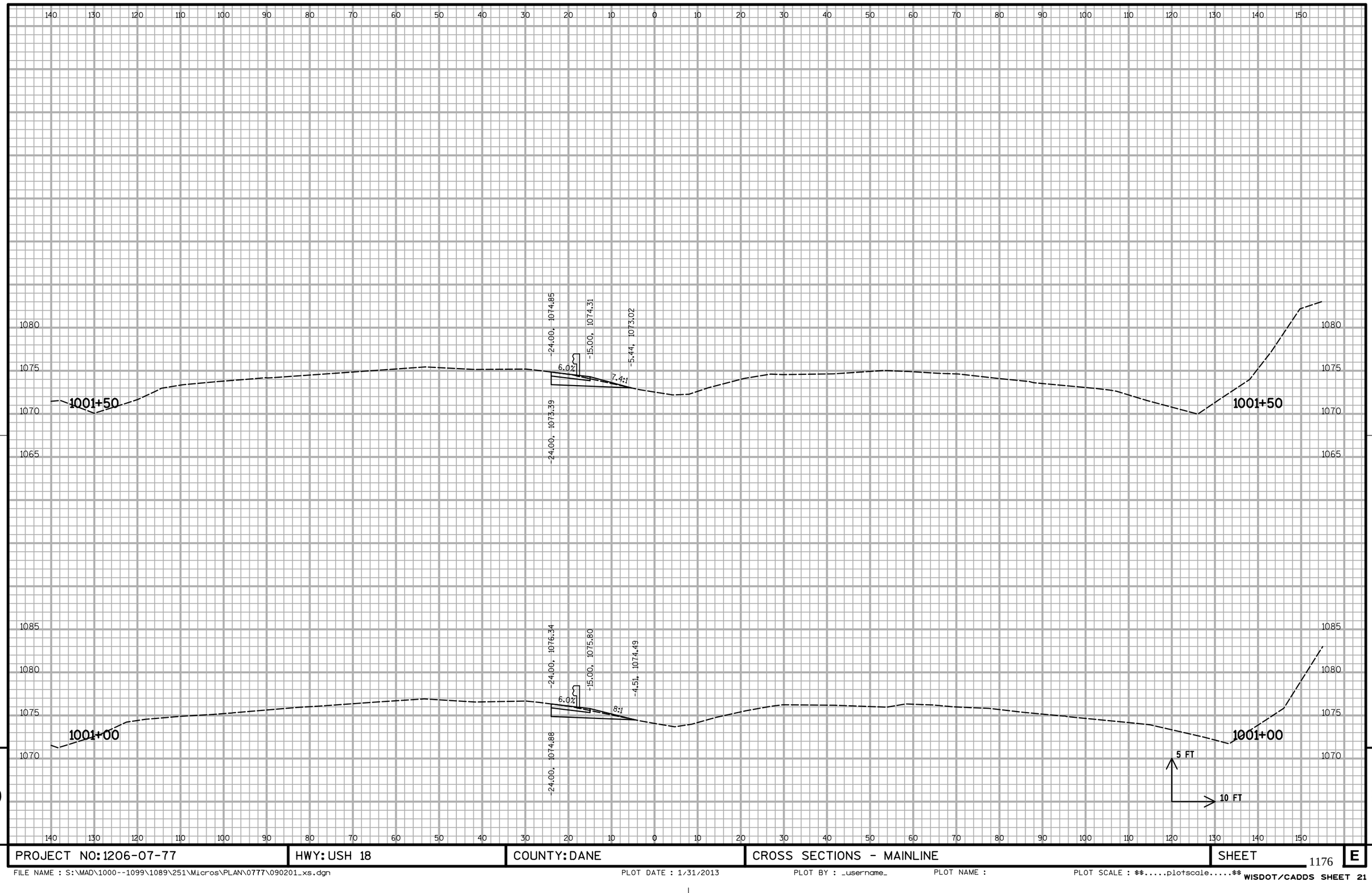


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1175	E

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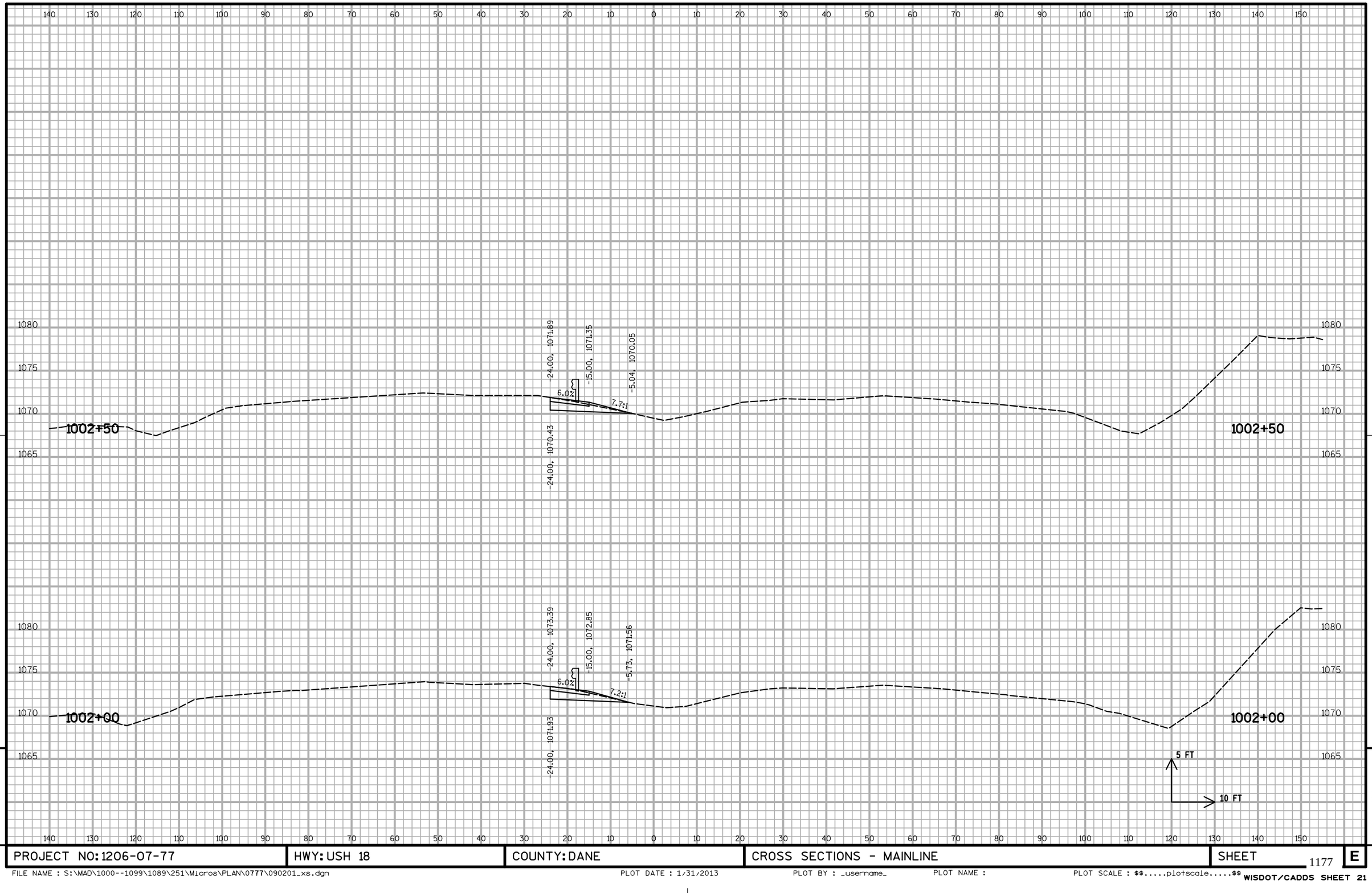


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1176	E

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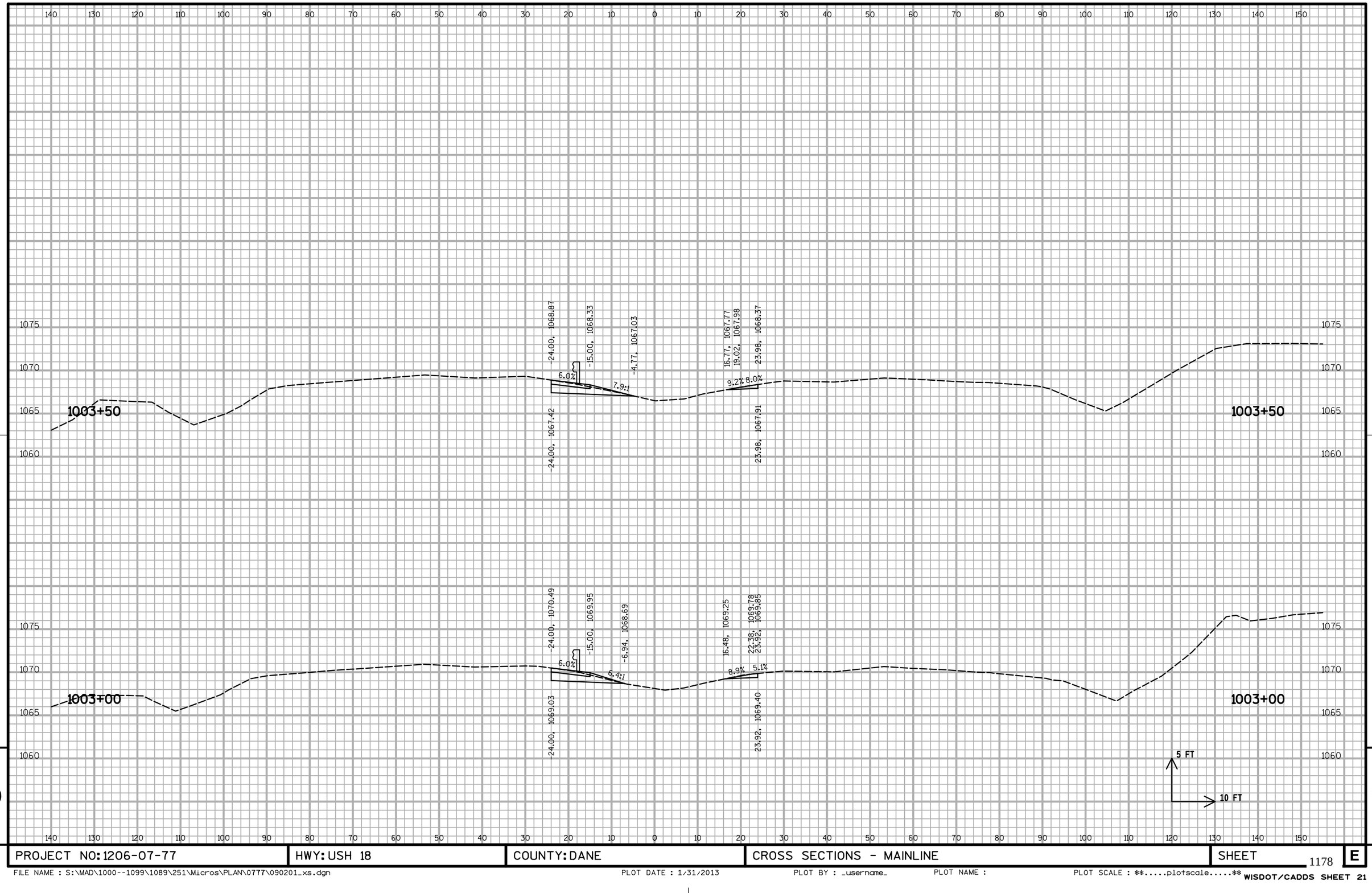


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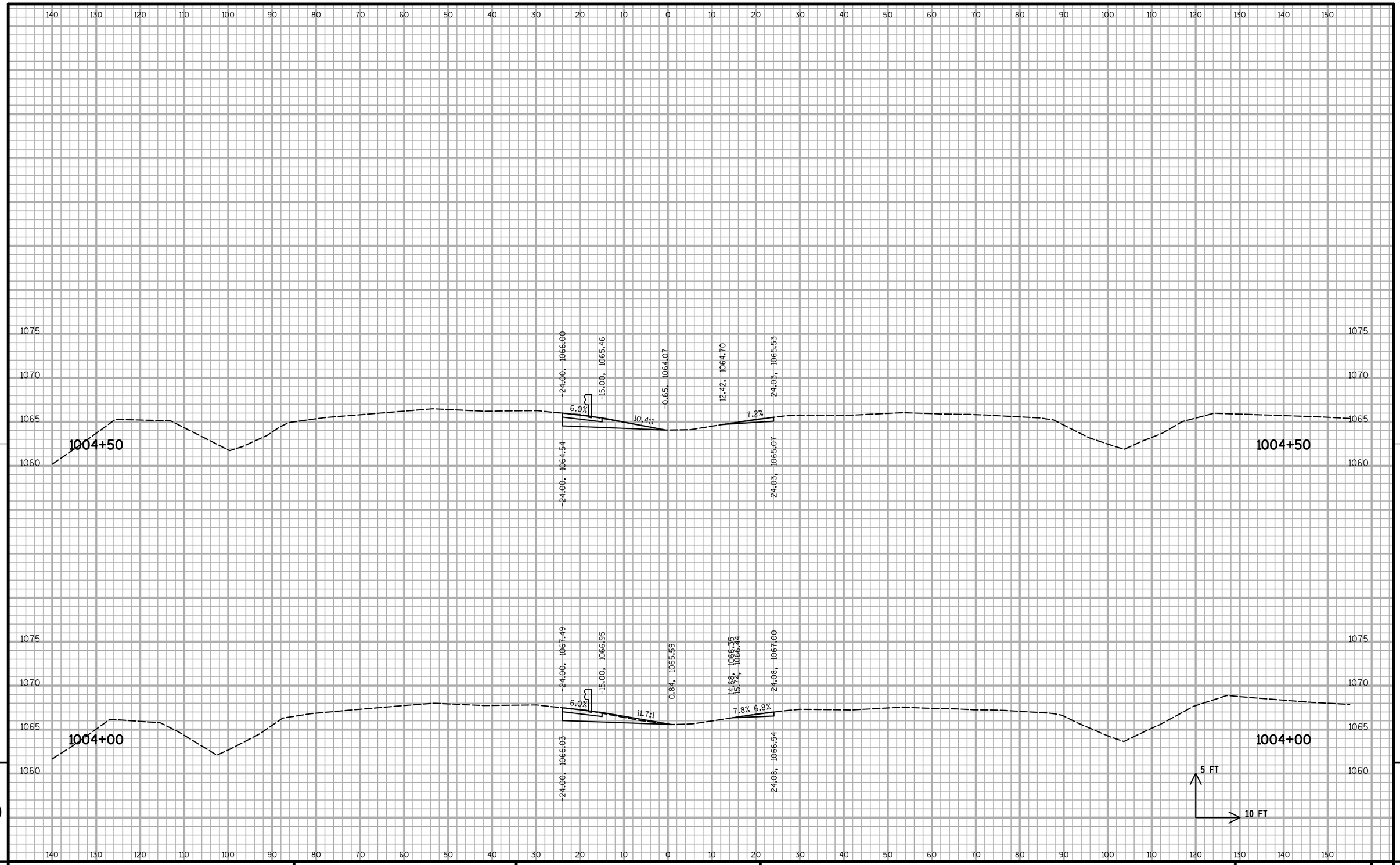
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1177	E

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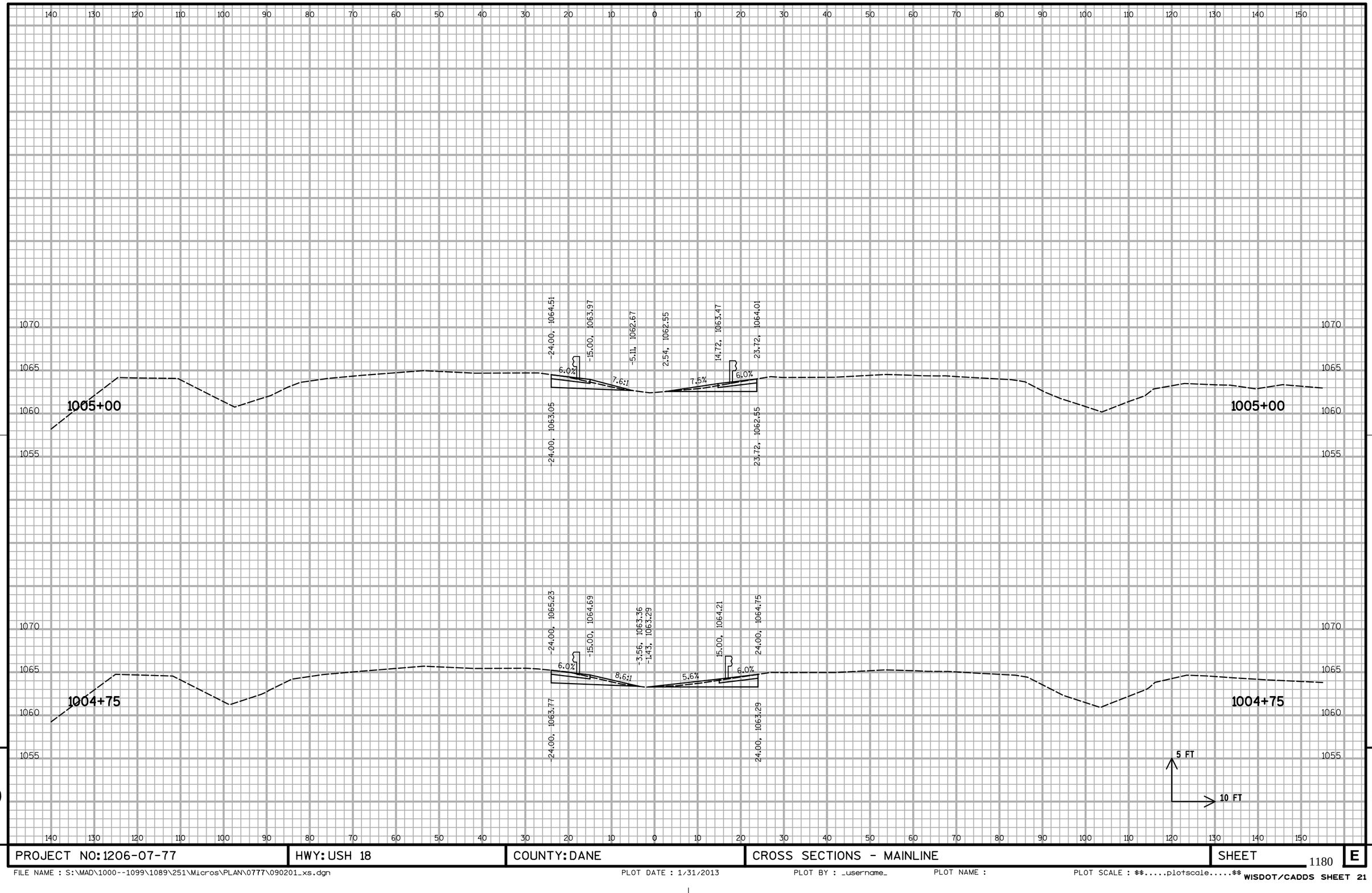
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1178	E

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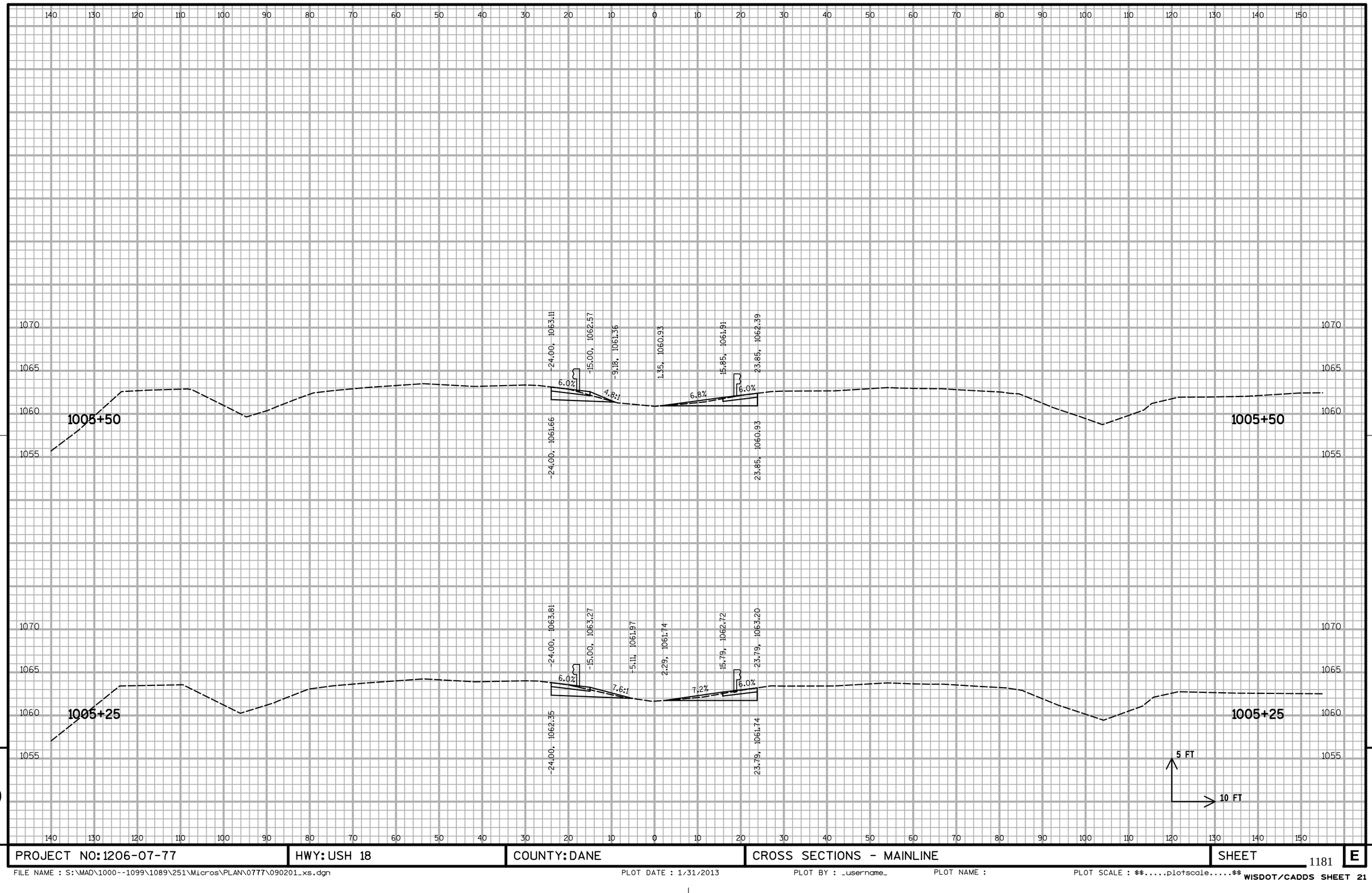
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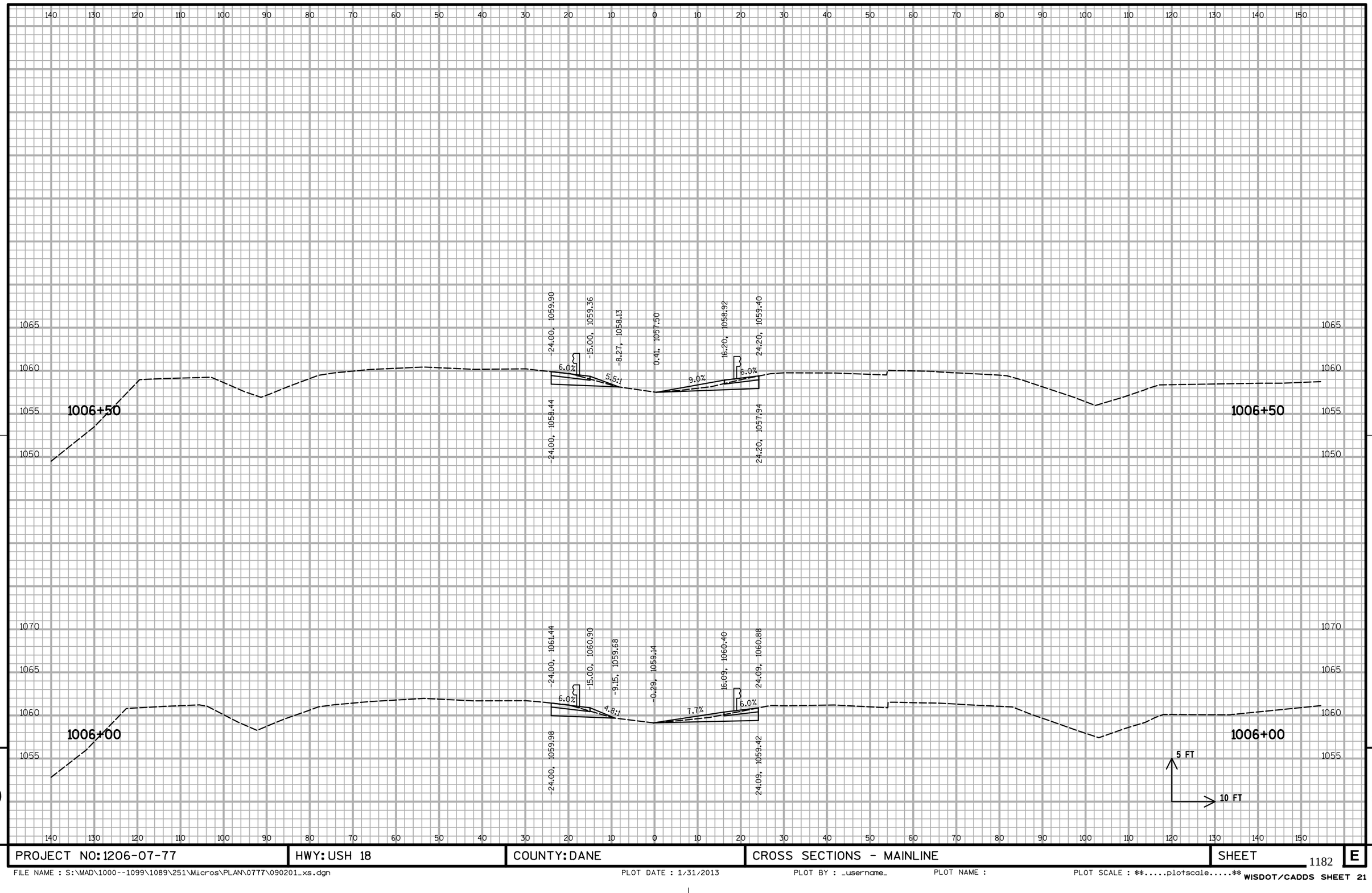
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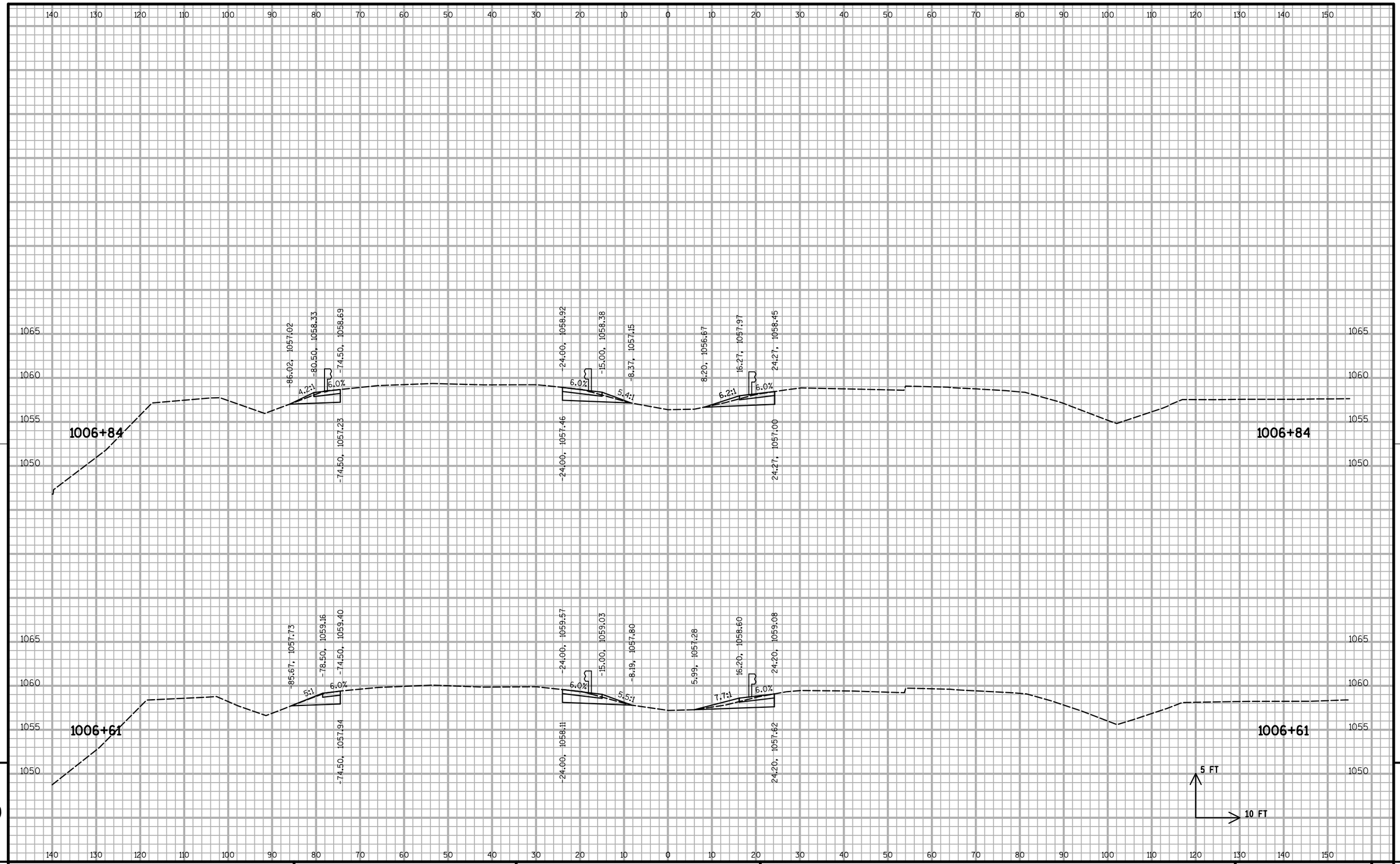
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1181	E

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1182	E

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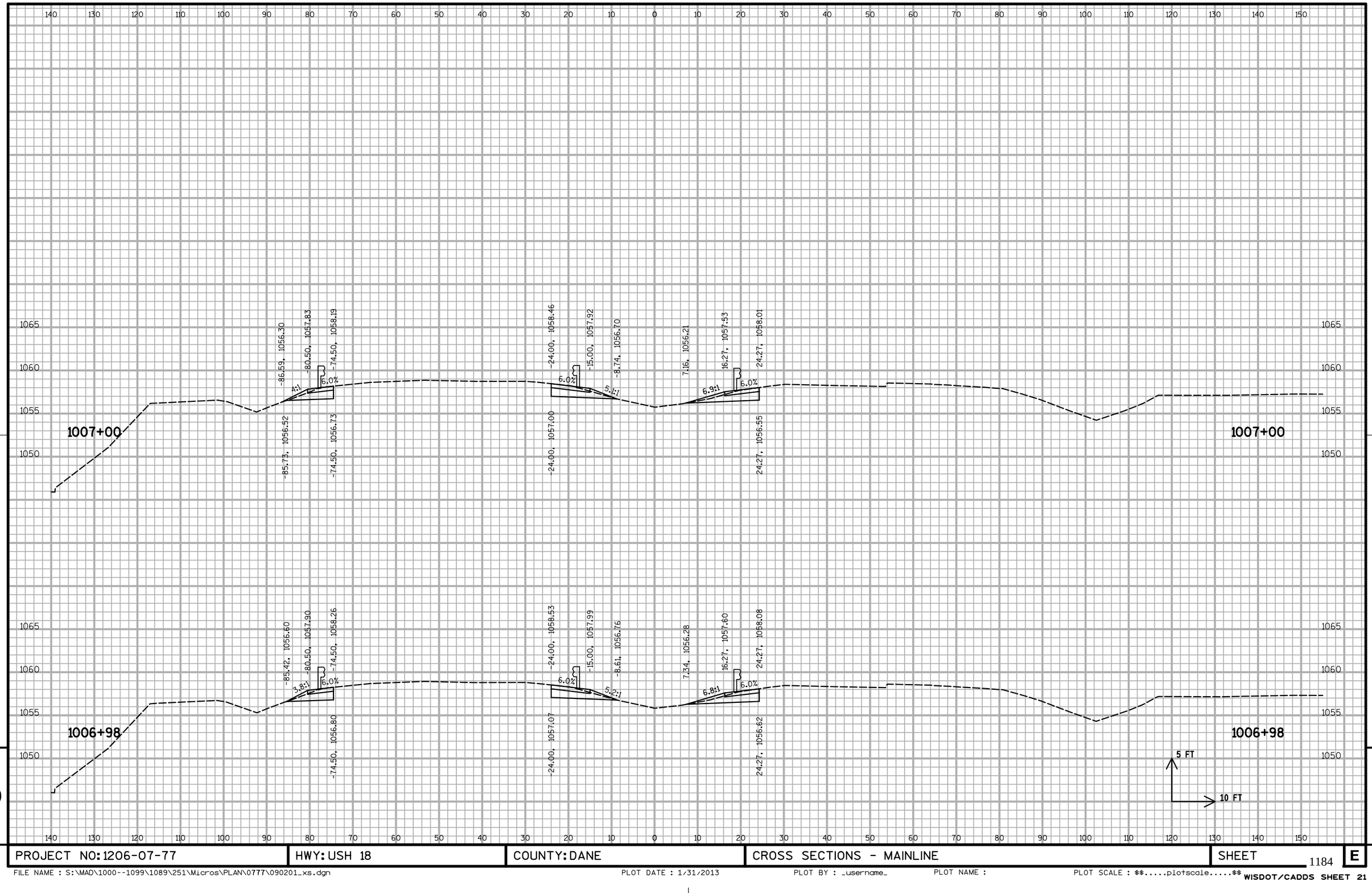


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1183	E

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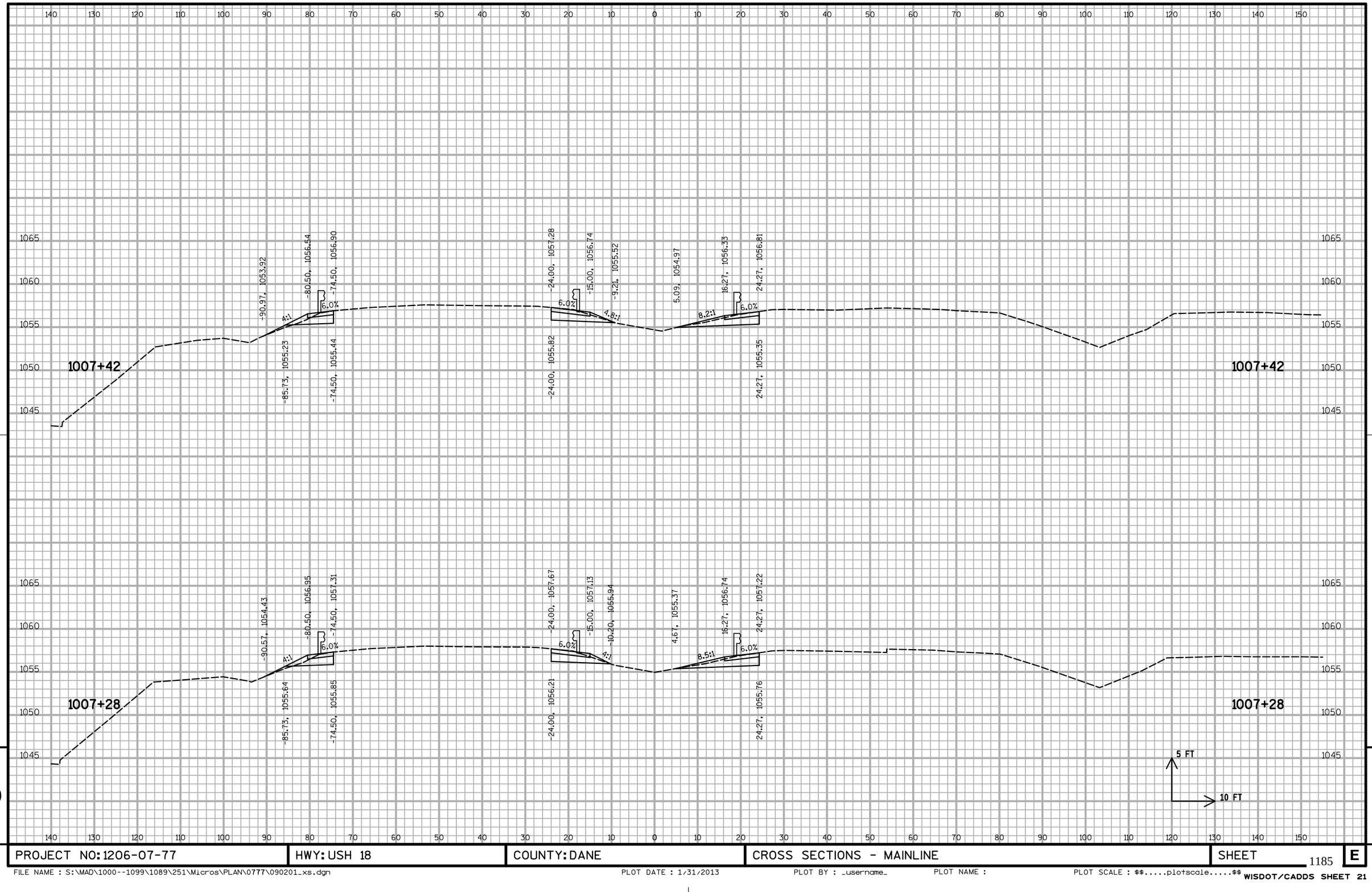


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

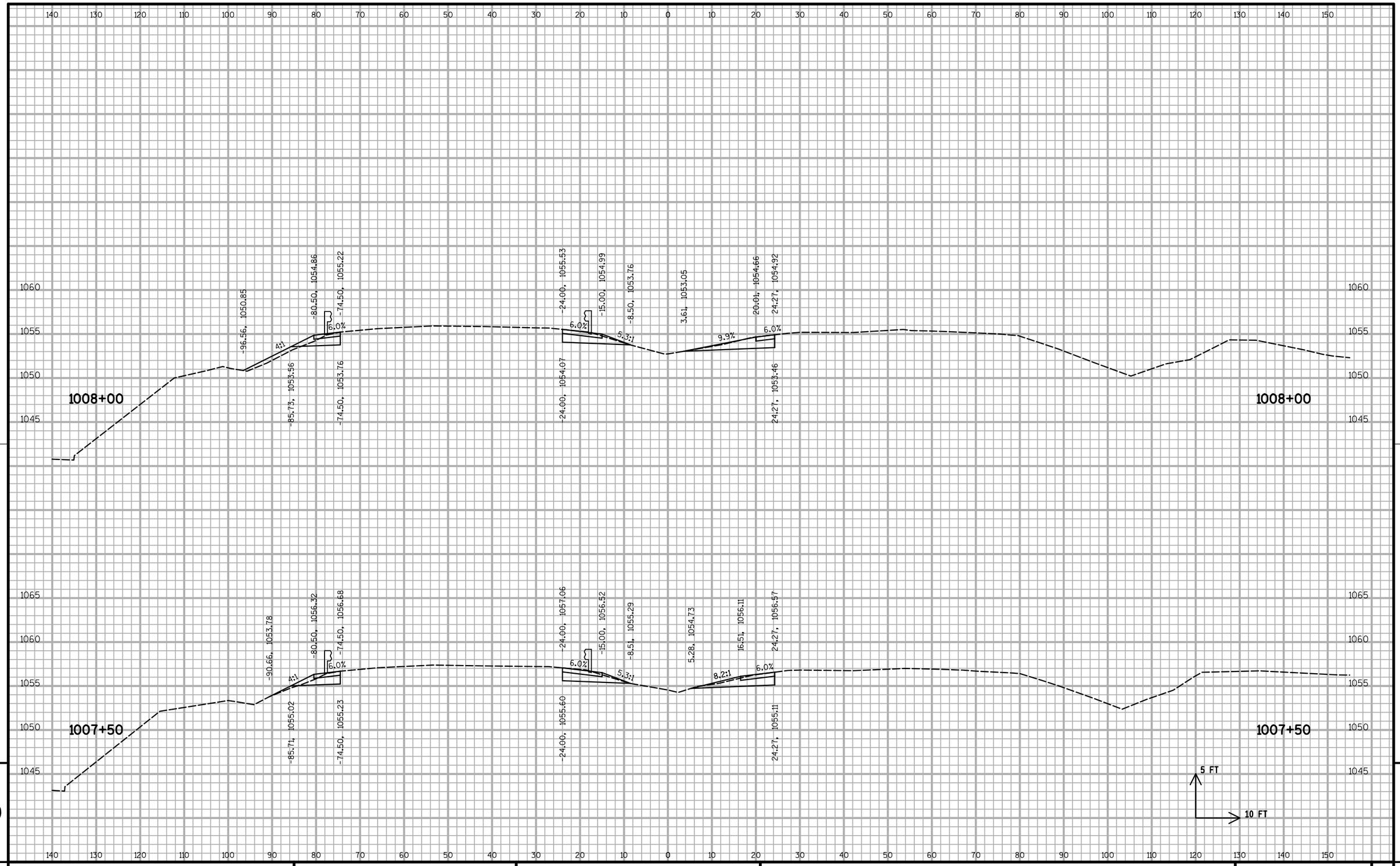


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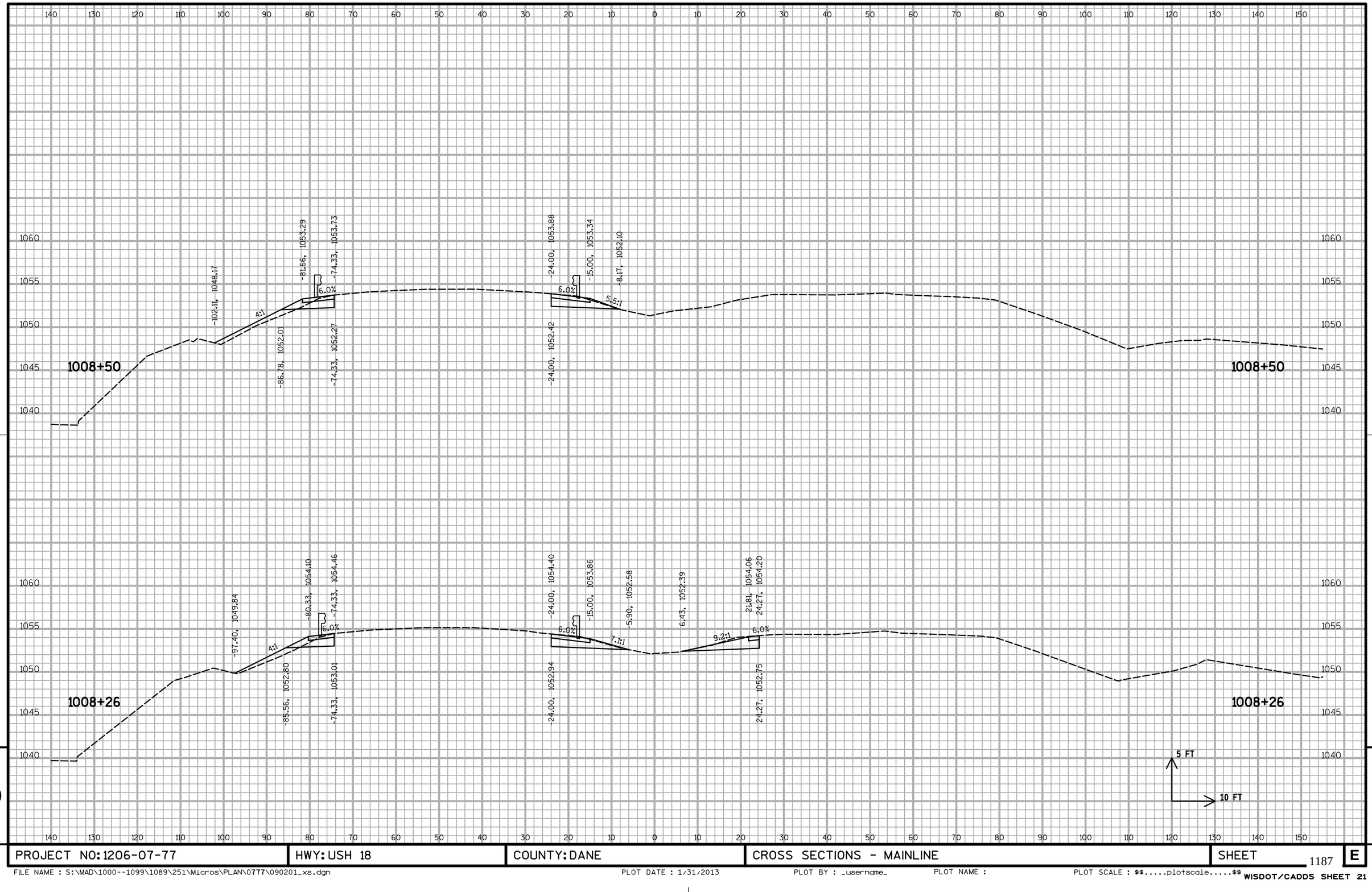
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1186 E

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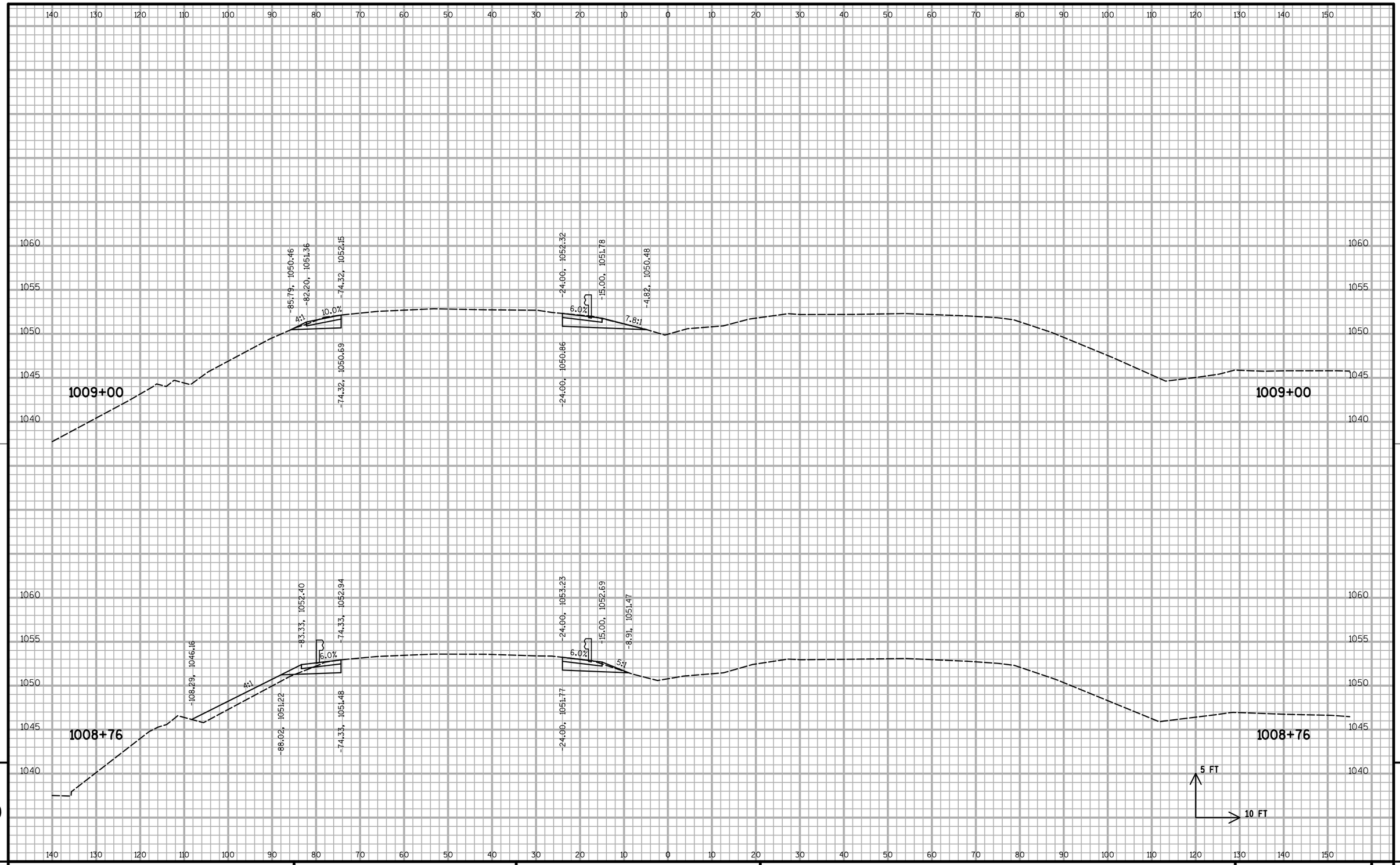


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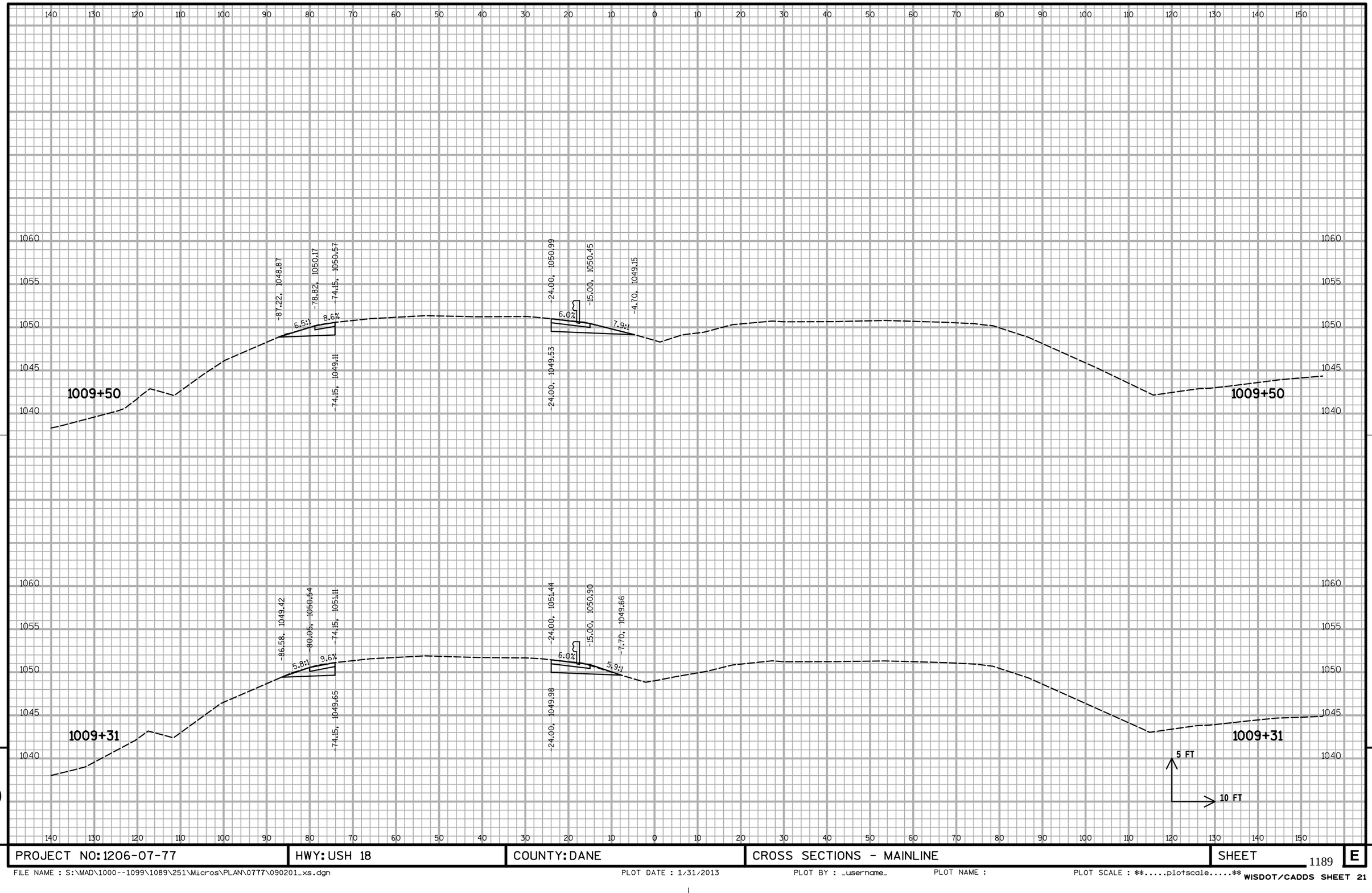
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1188	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

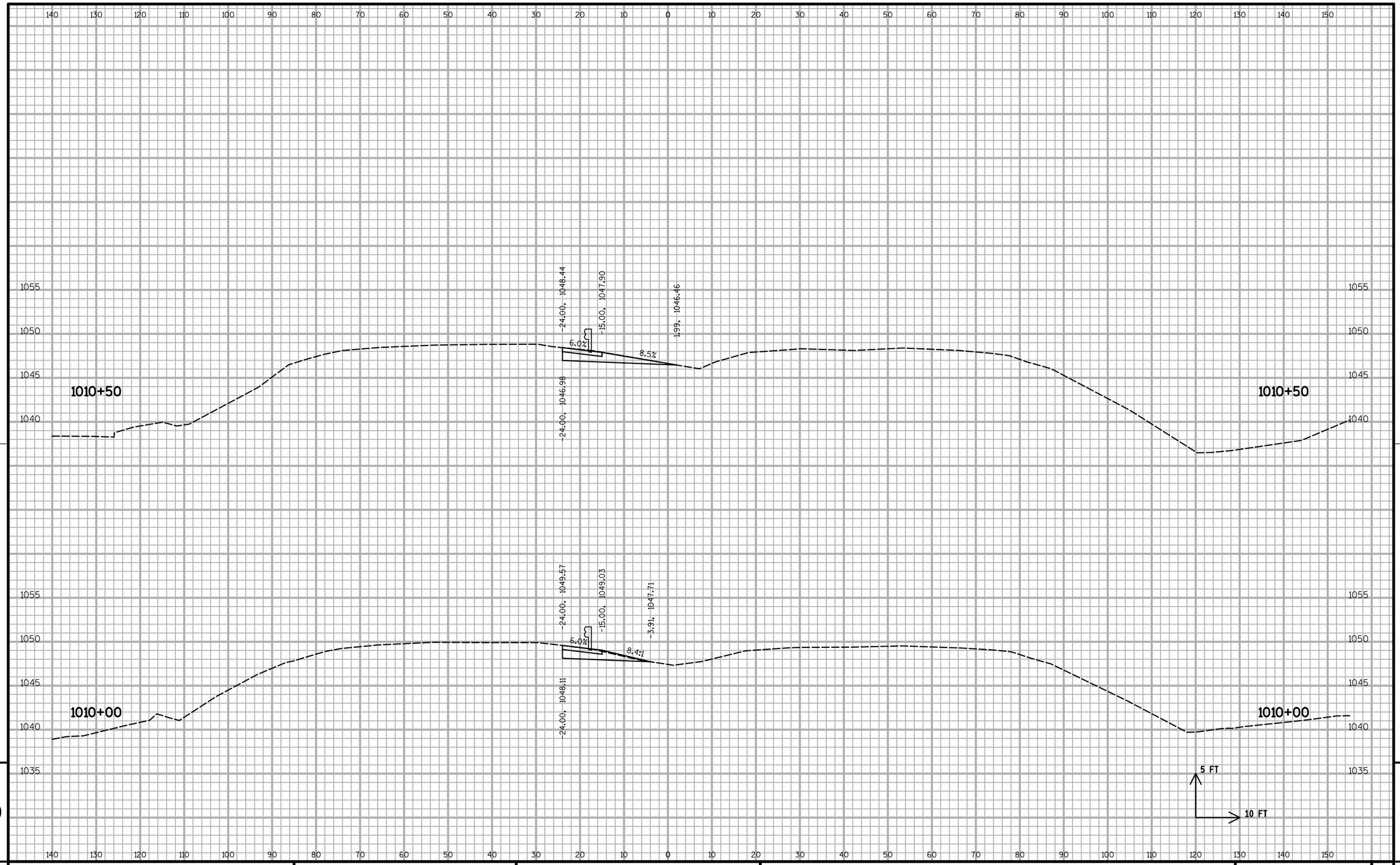


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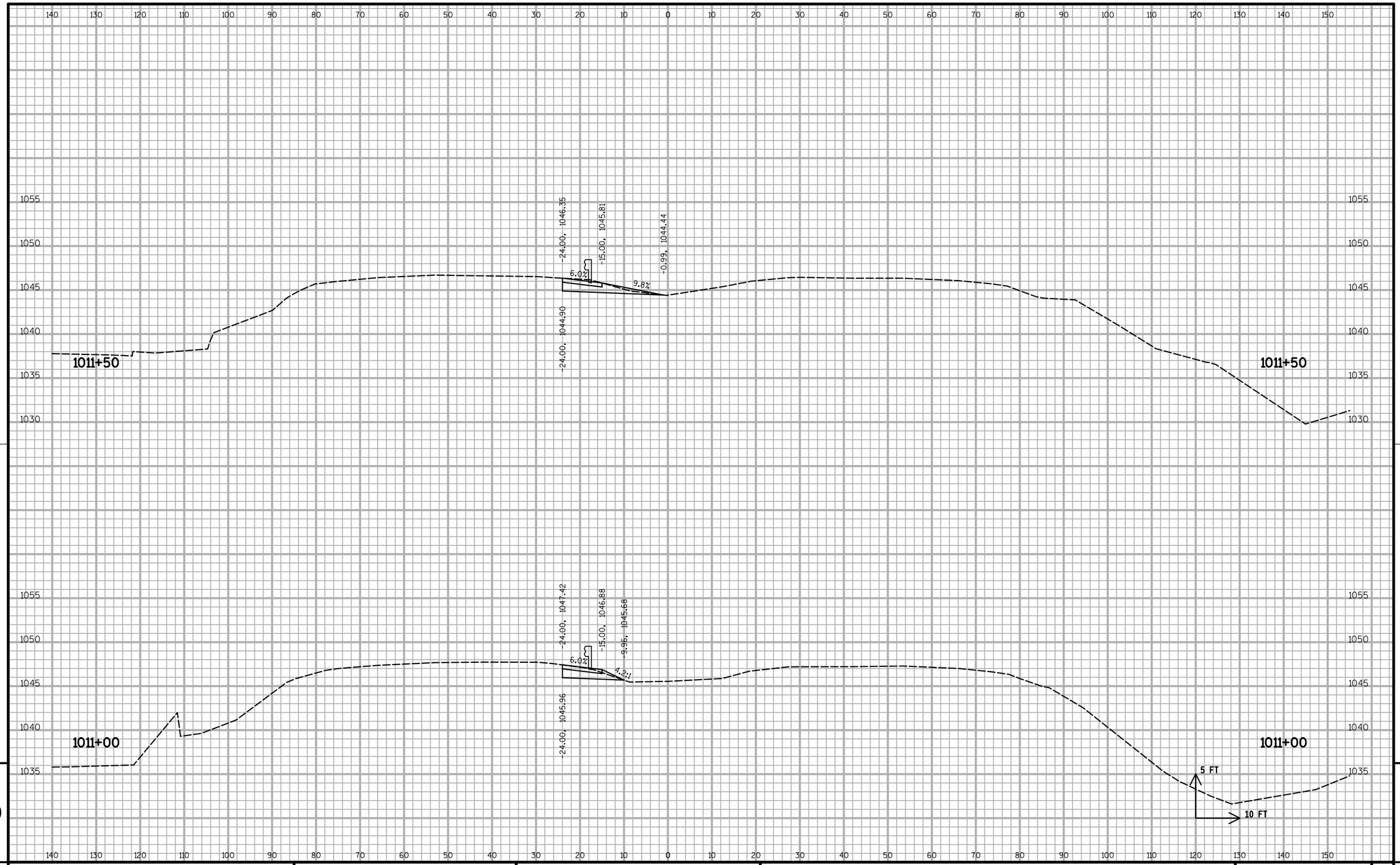
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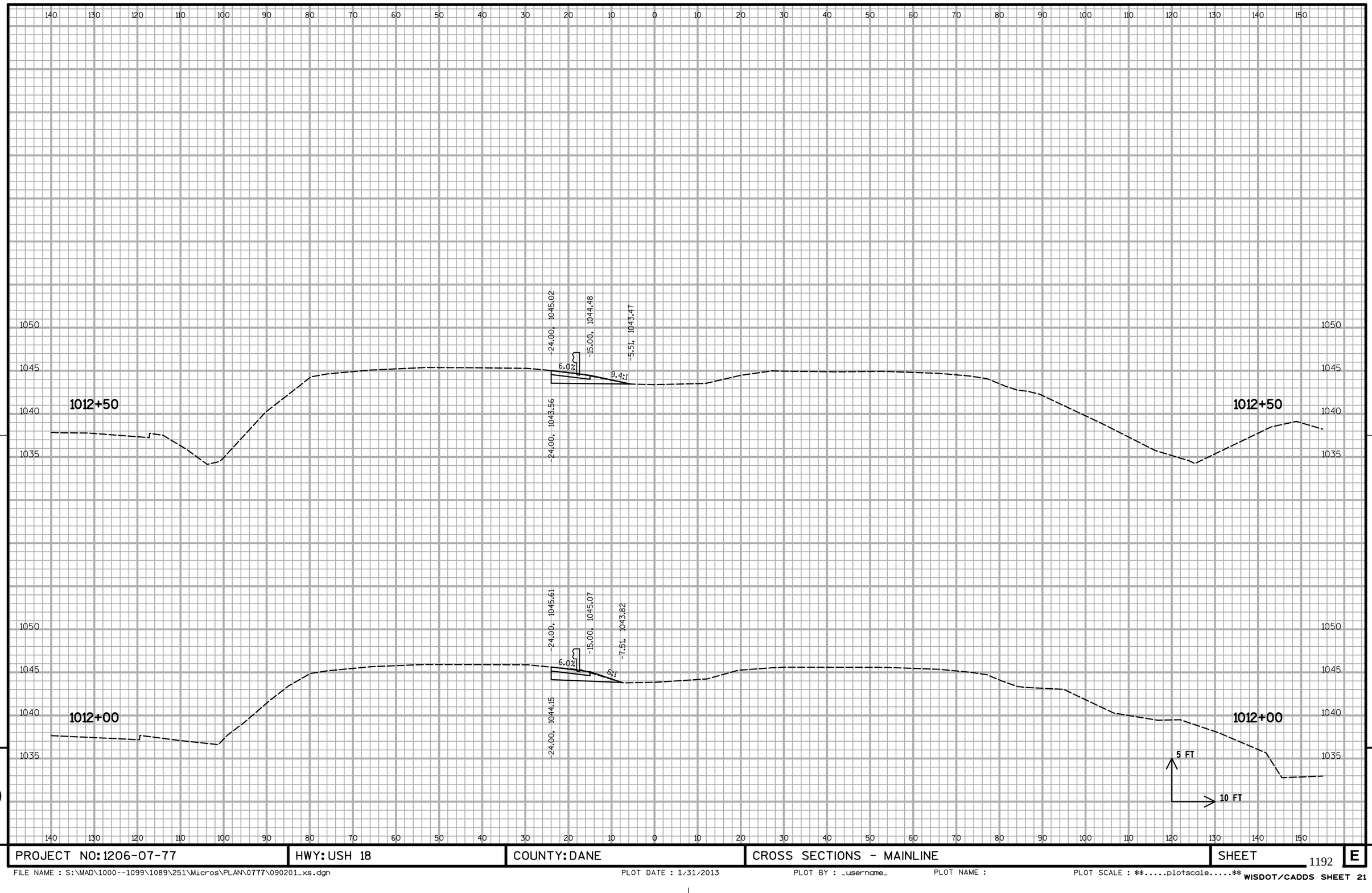
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1191	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

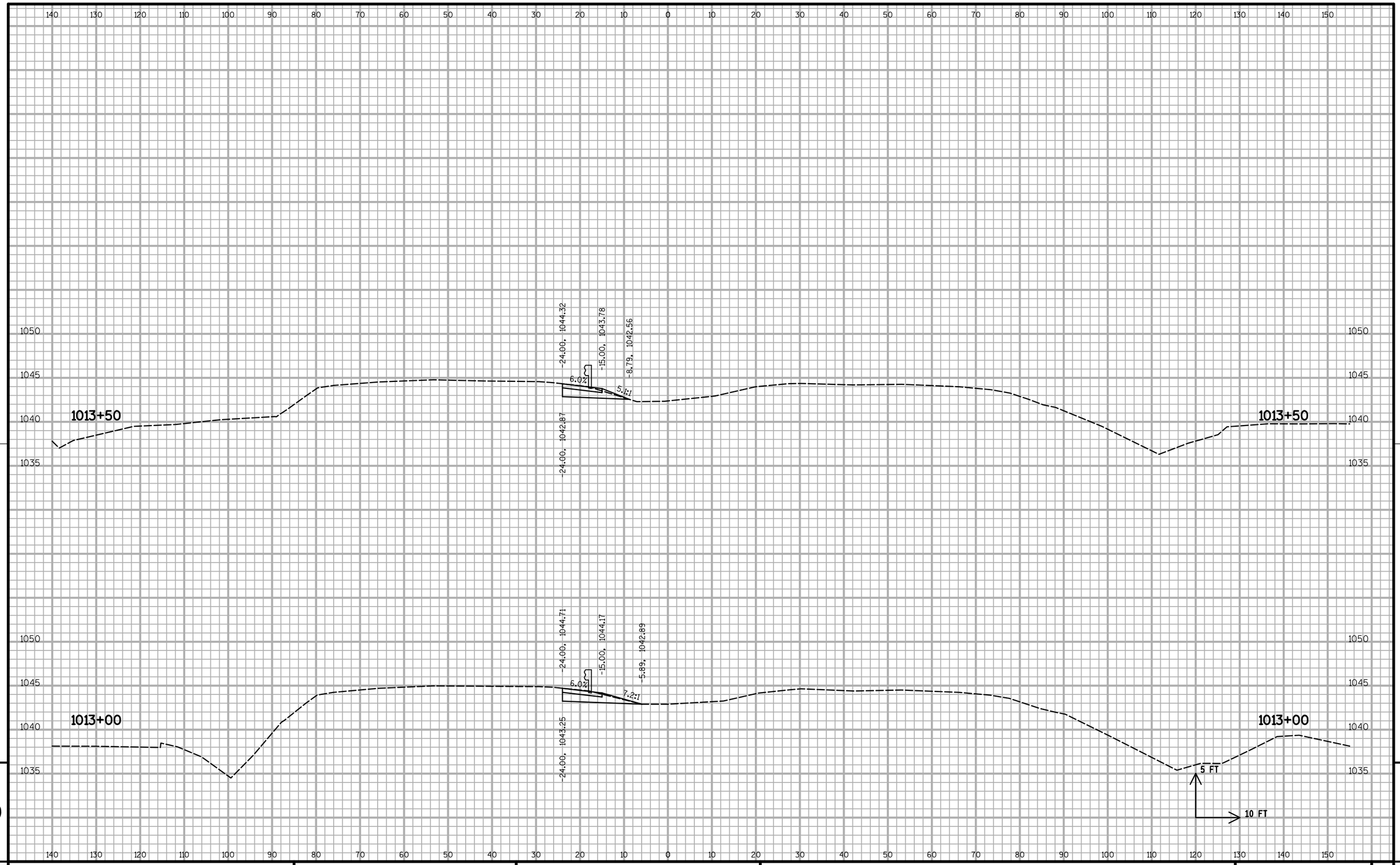


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1192	E

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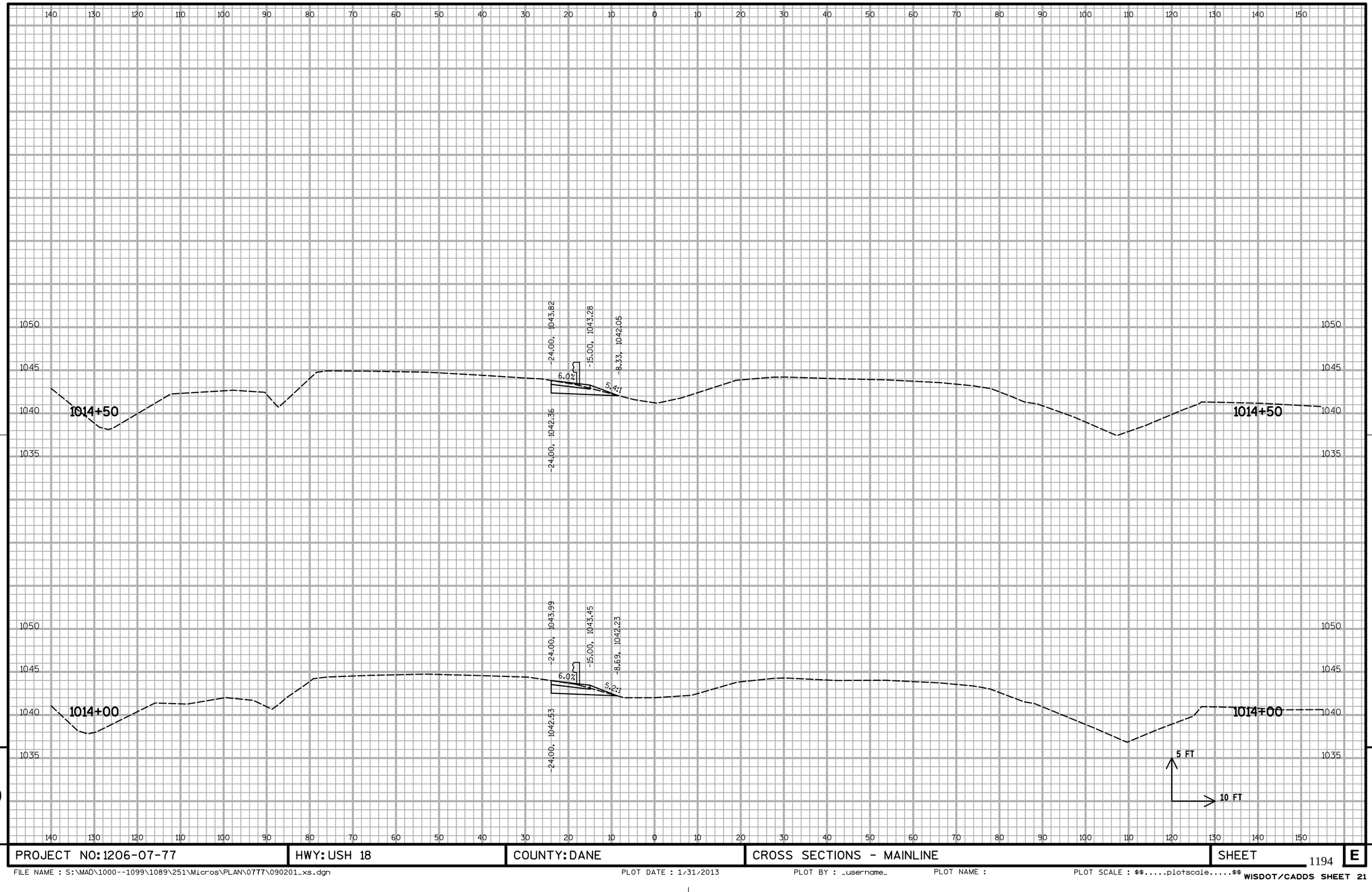


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1193	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

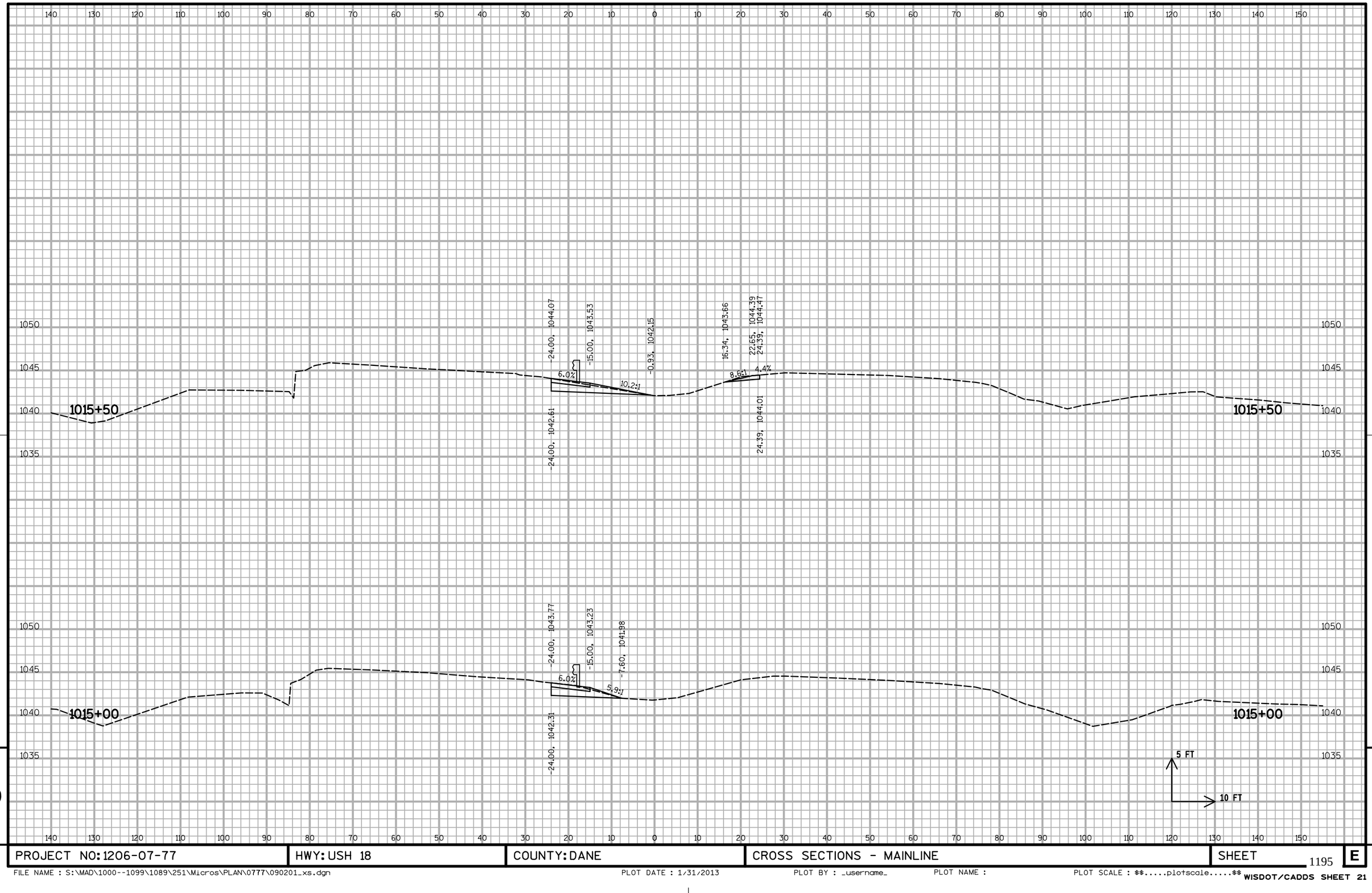


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1194	E

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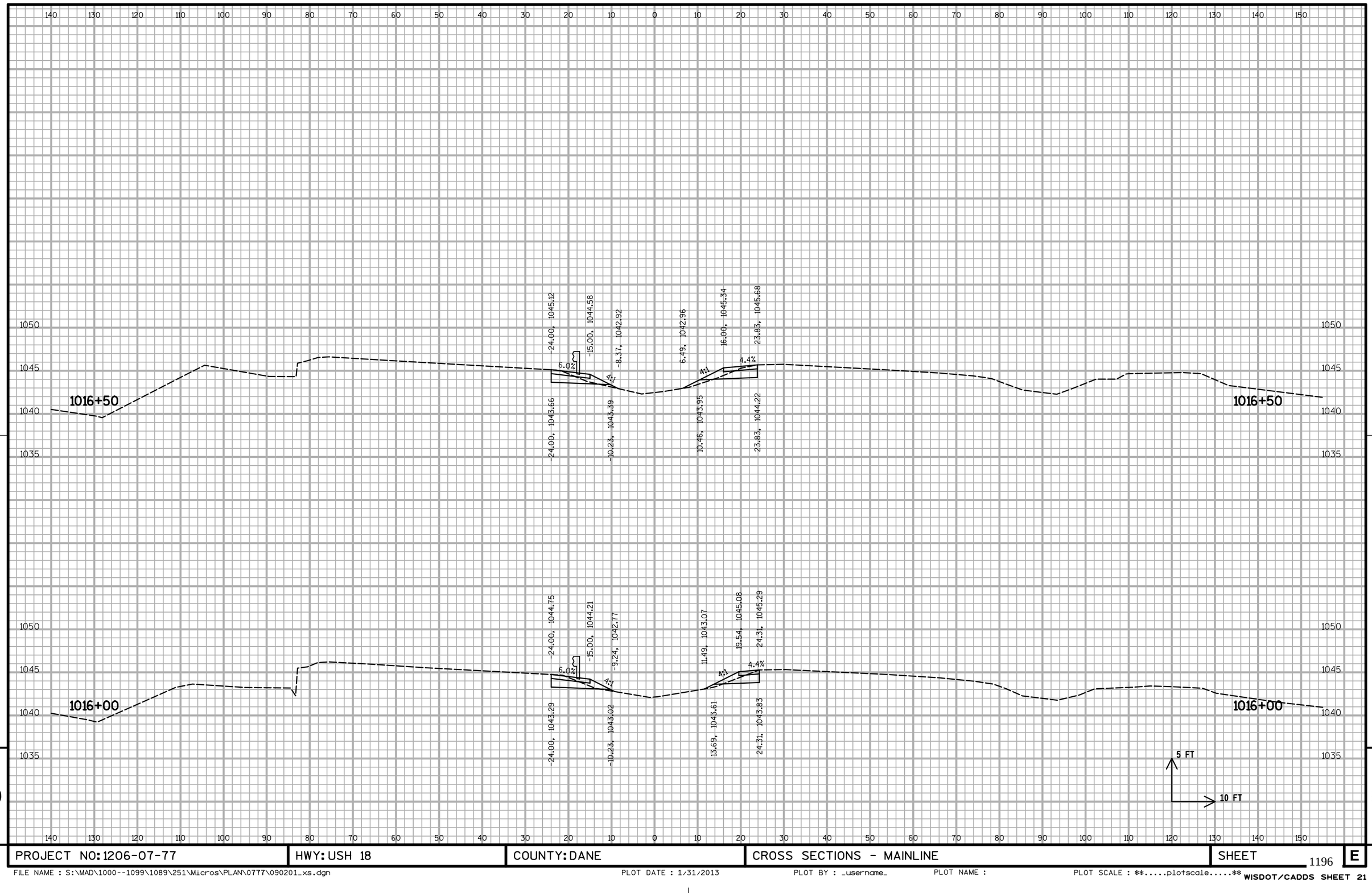


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1195	E

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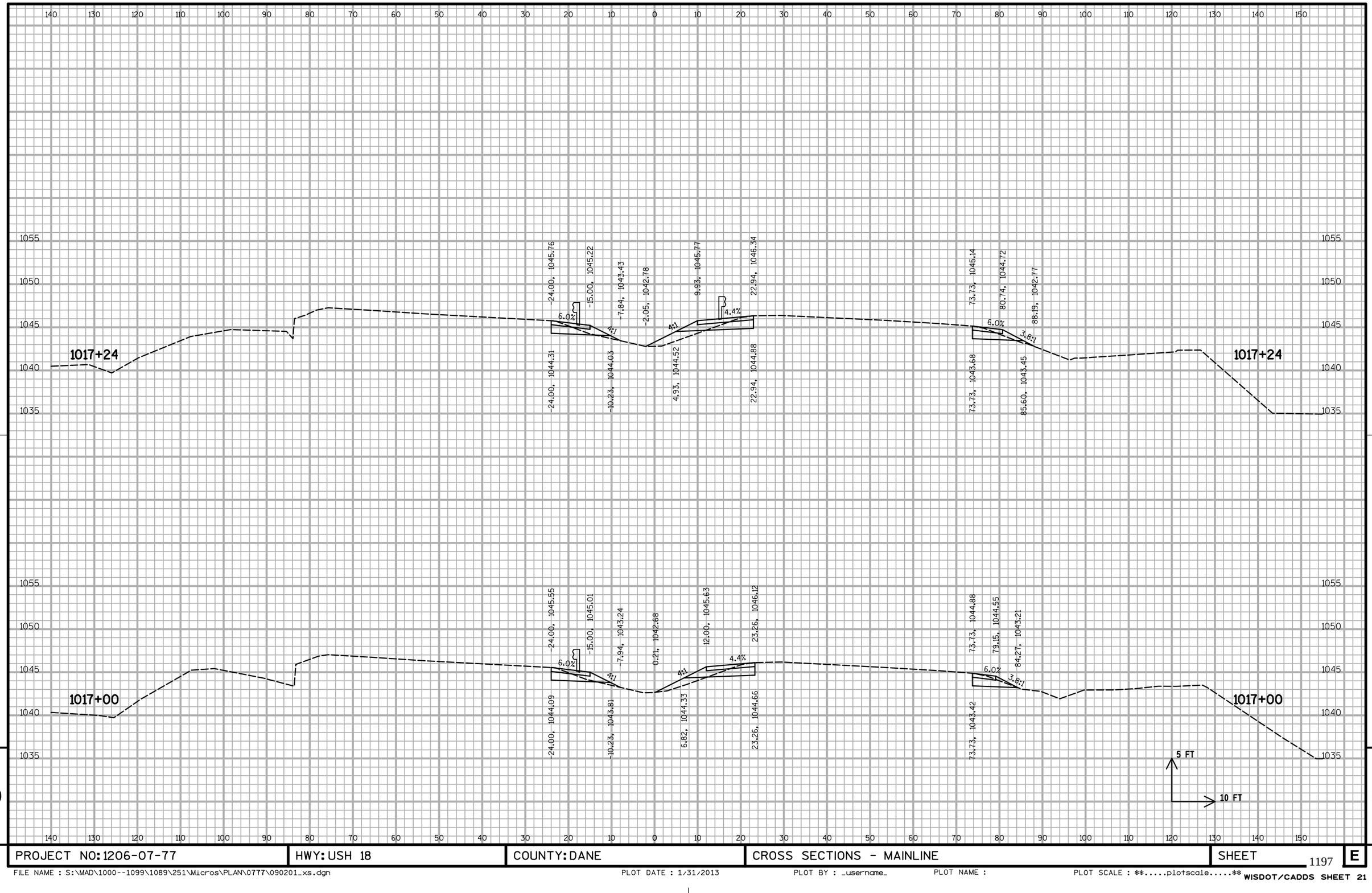


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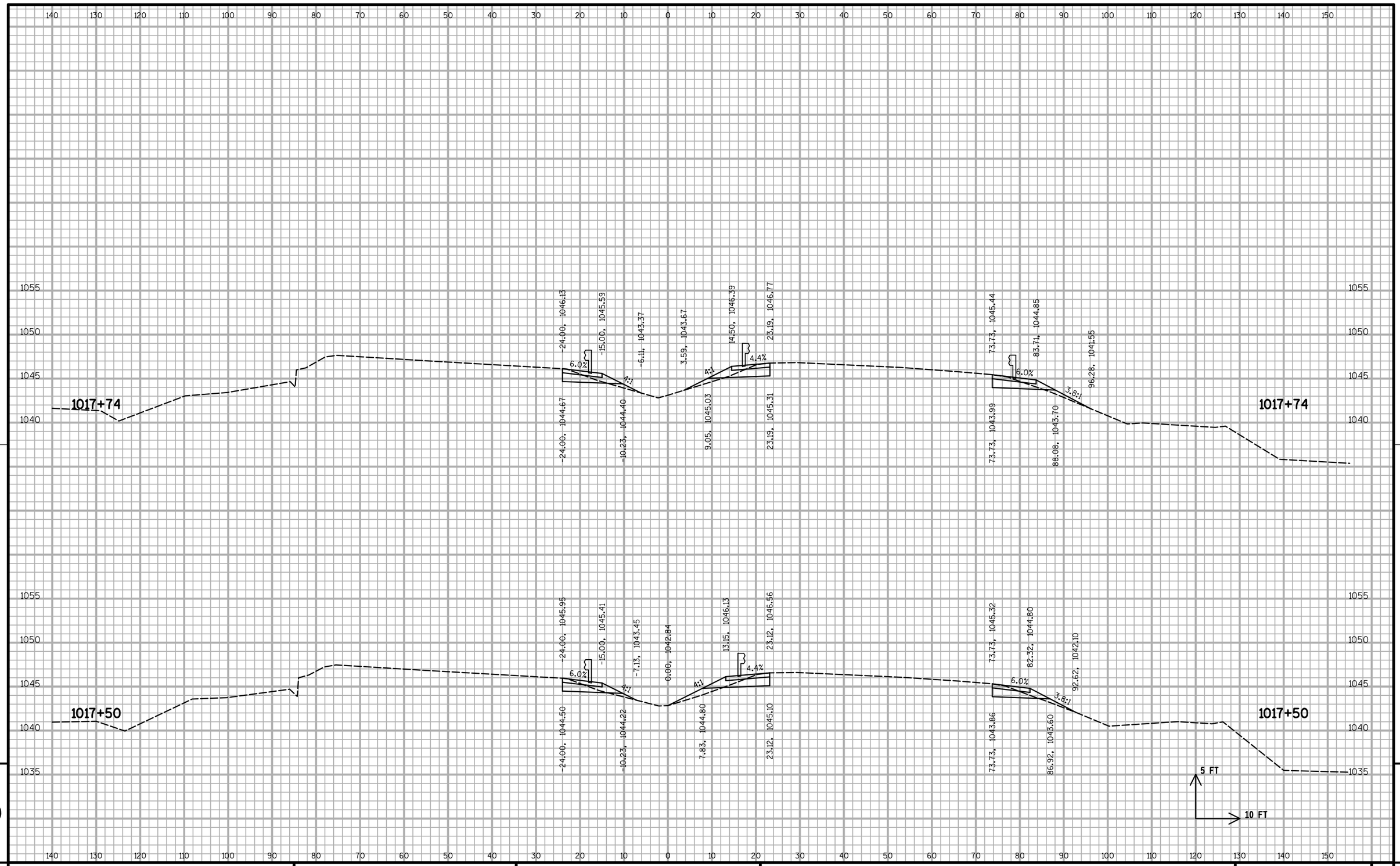
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1196	E

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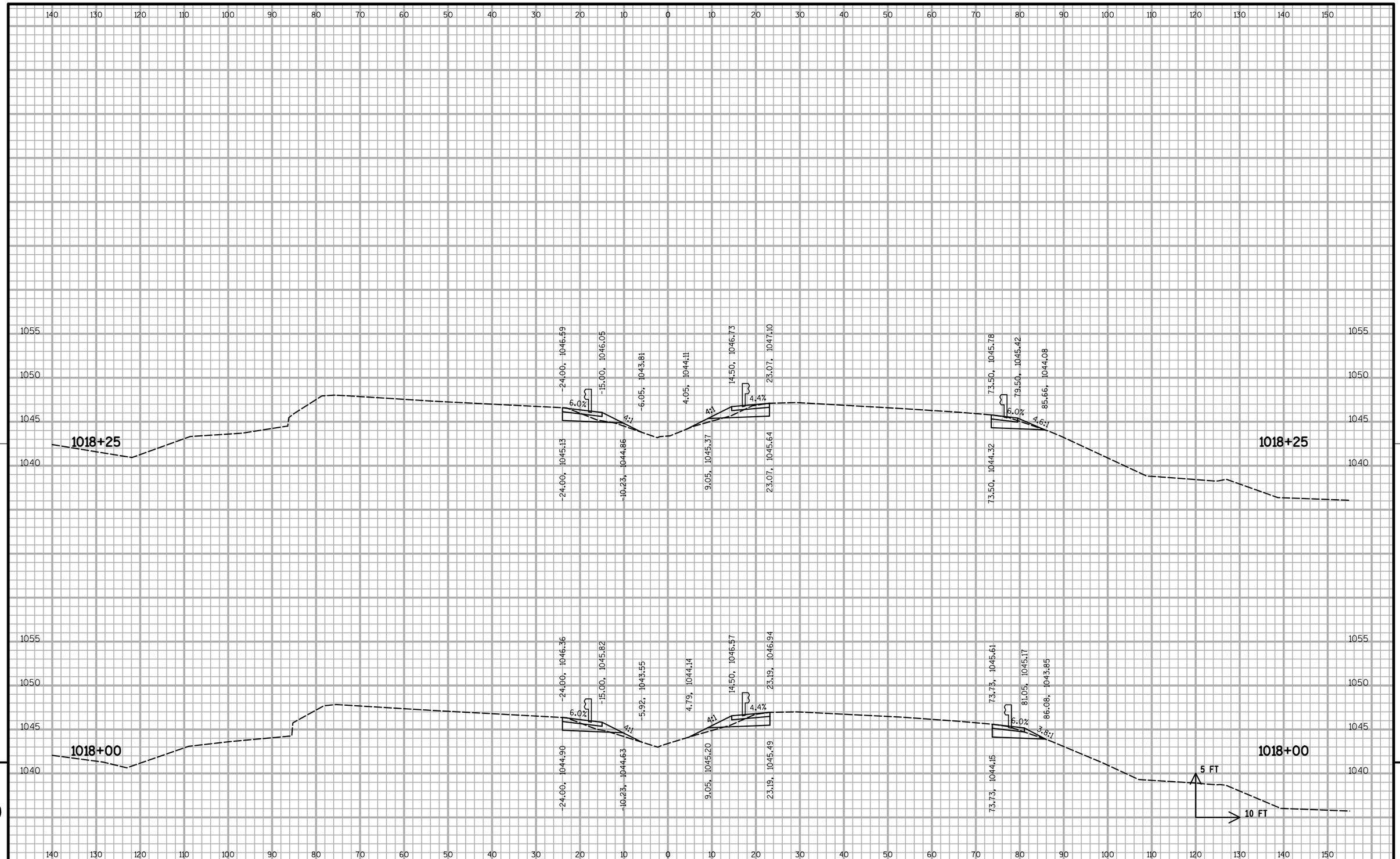
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1197 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1198	E

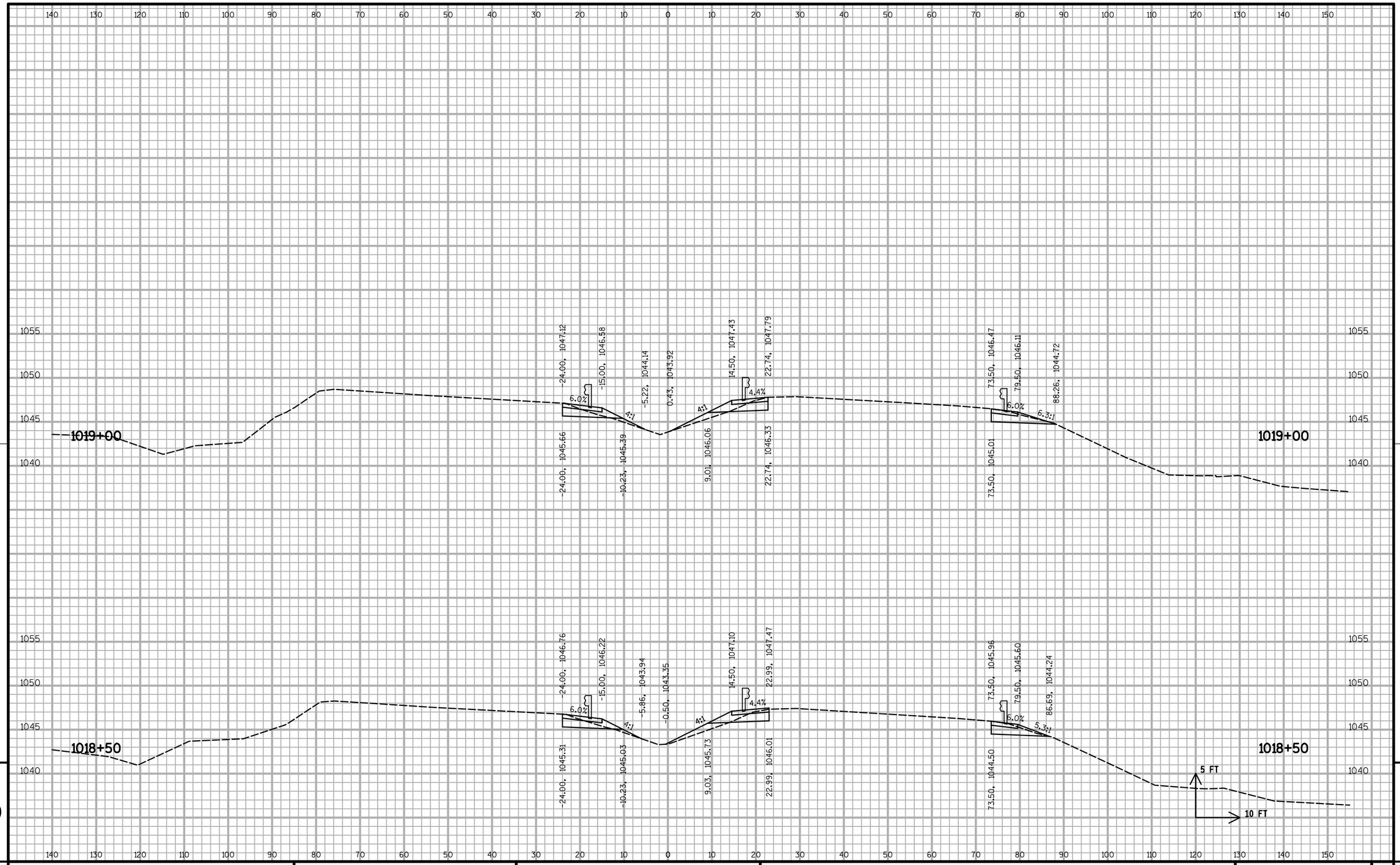


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1199	E

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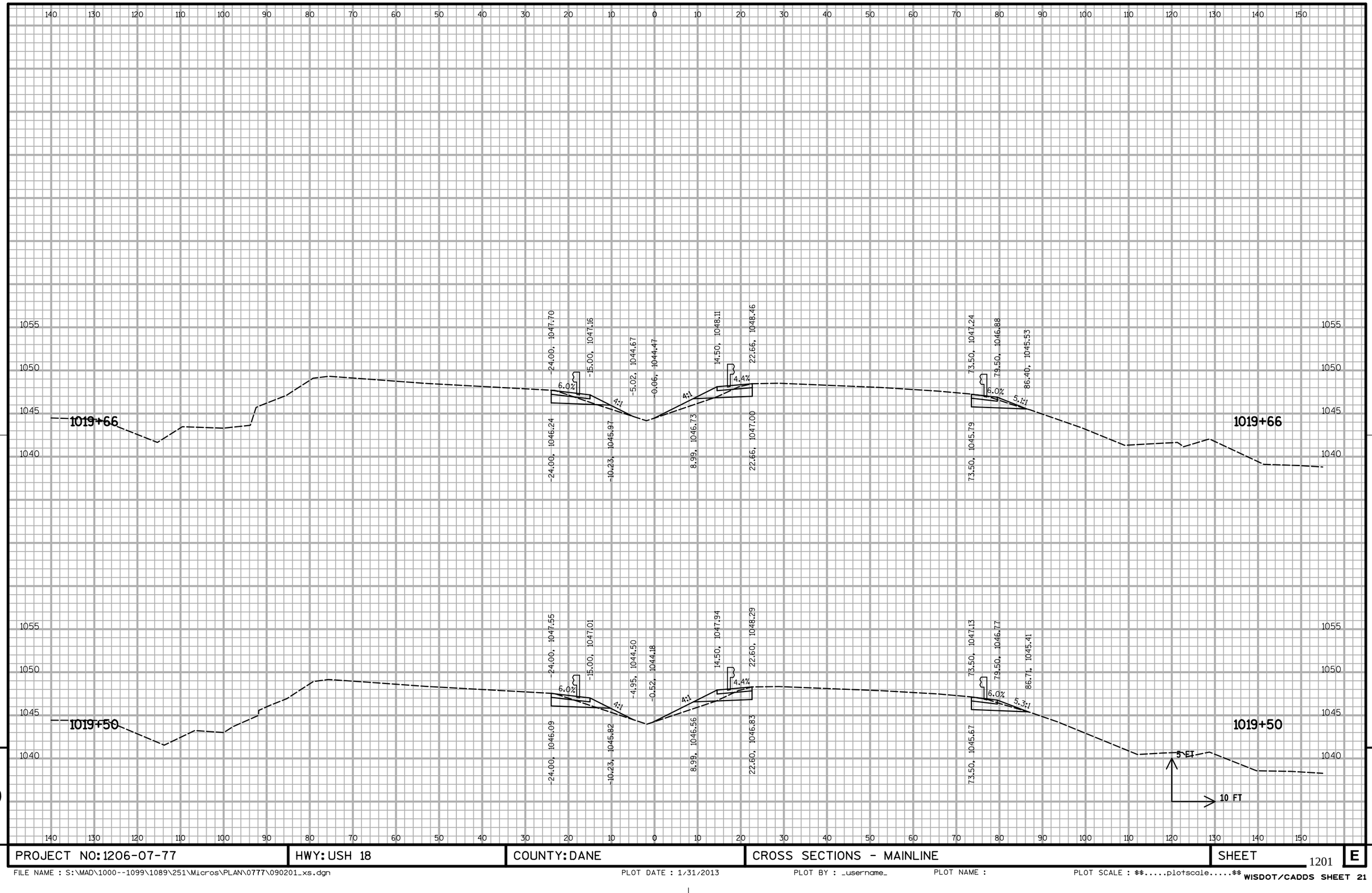


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1200	E

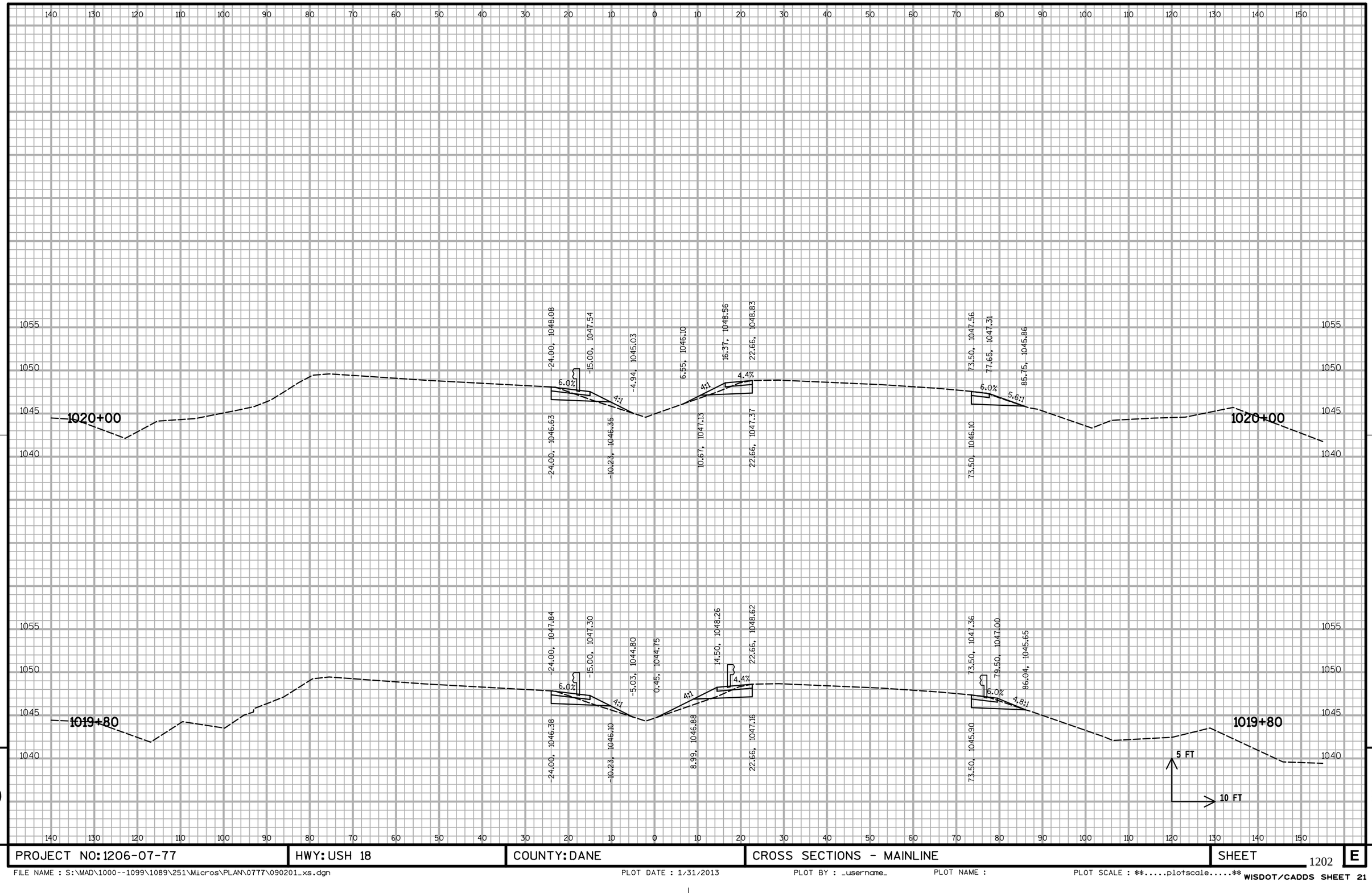
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WISDOT/CADDS SHEET 21



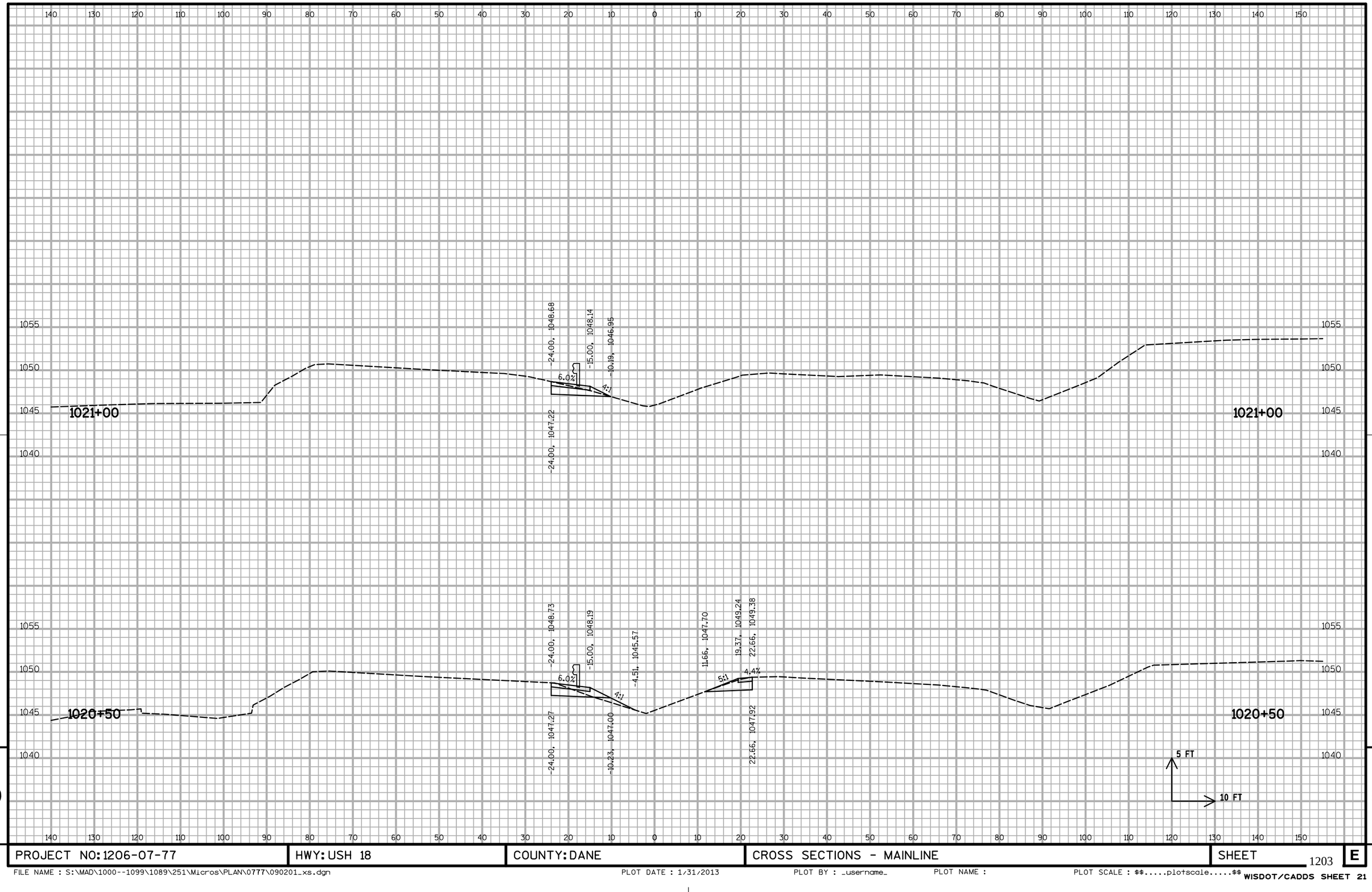
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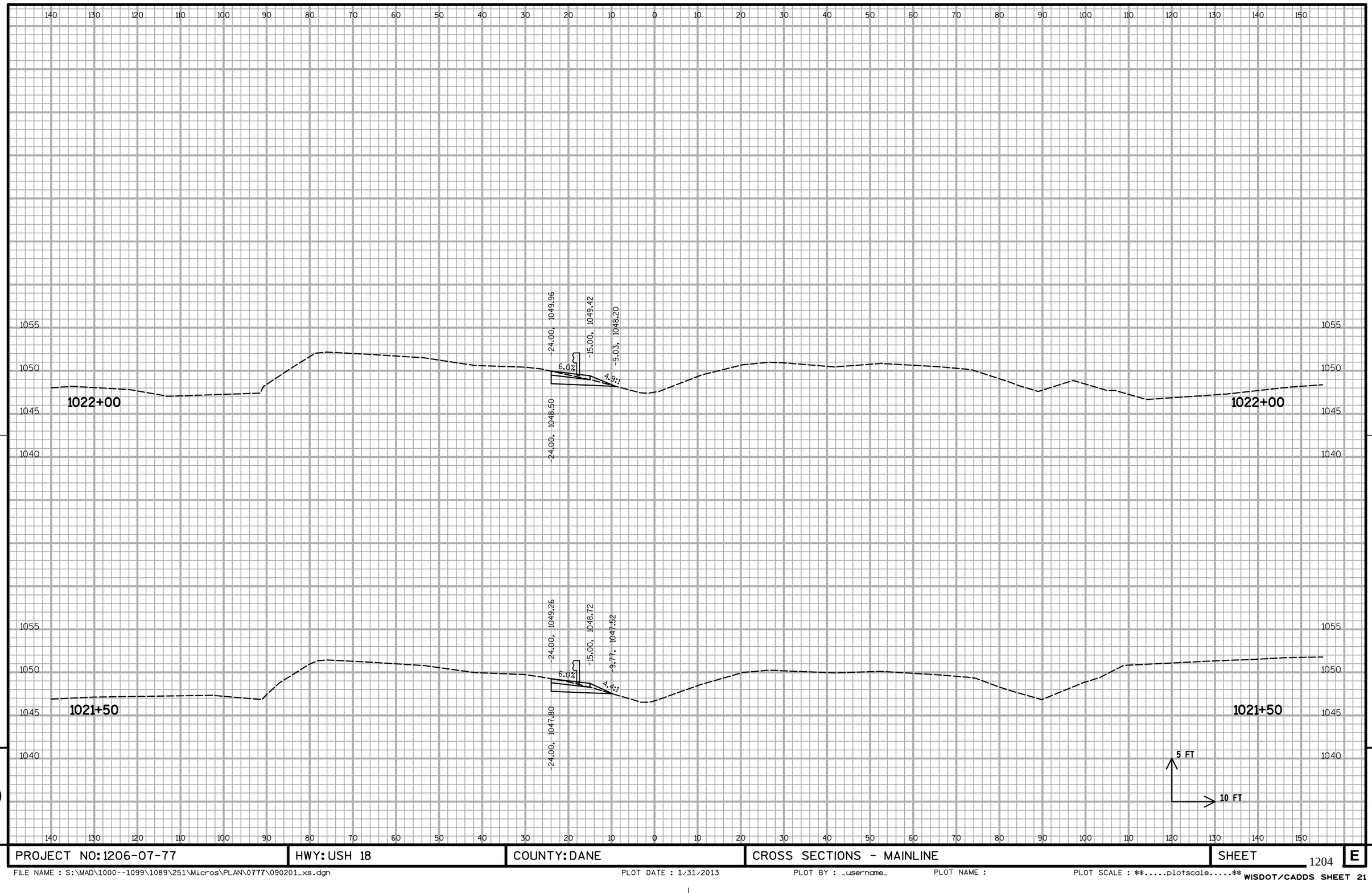
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1202 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1203	E

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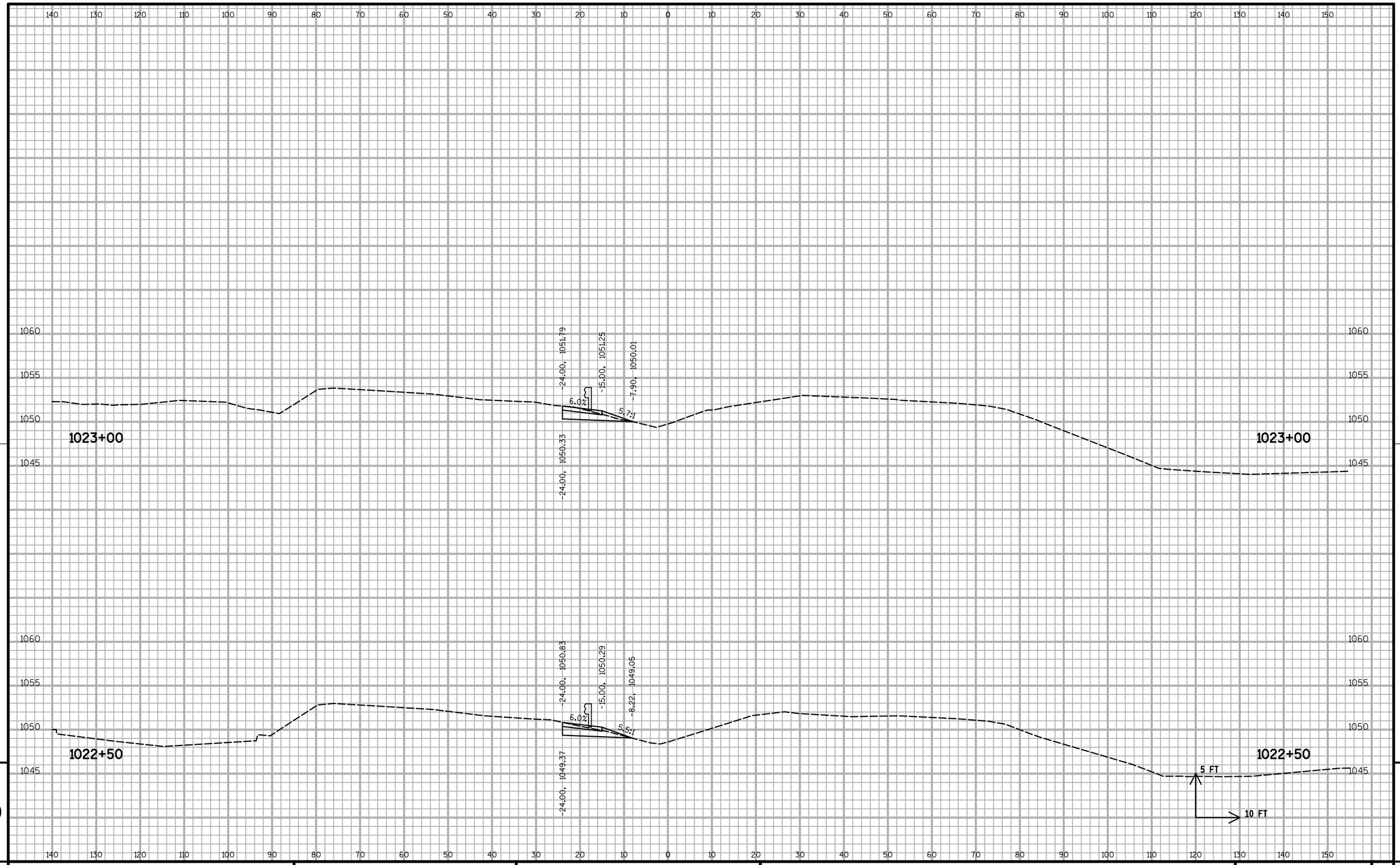


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1204	E

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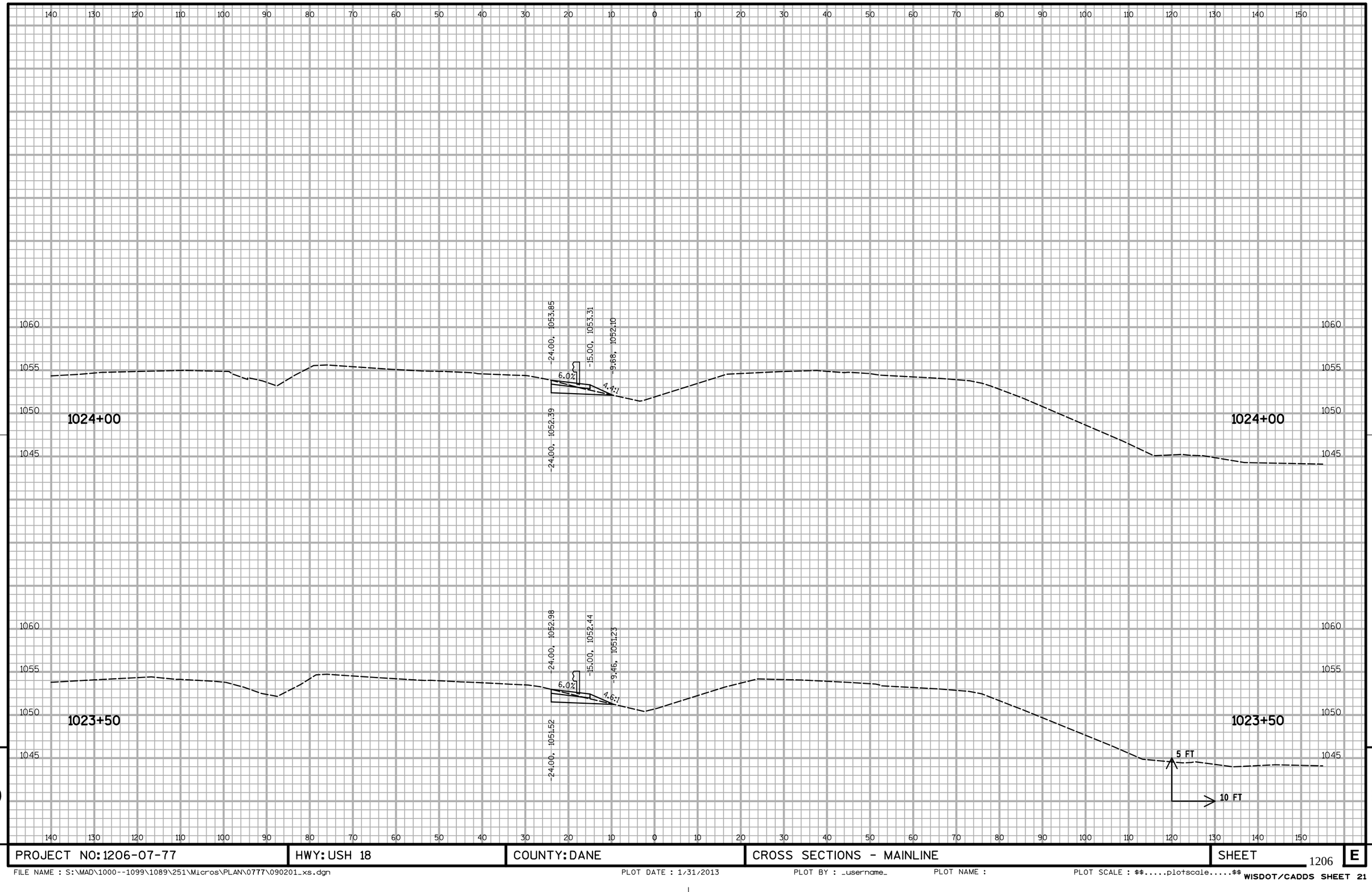
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1205	E

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WISDOT/CADDS SHEET 21

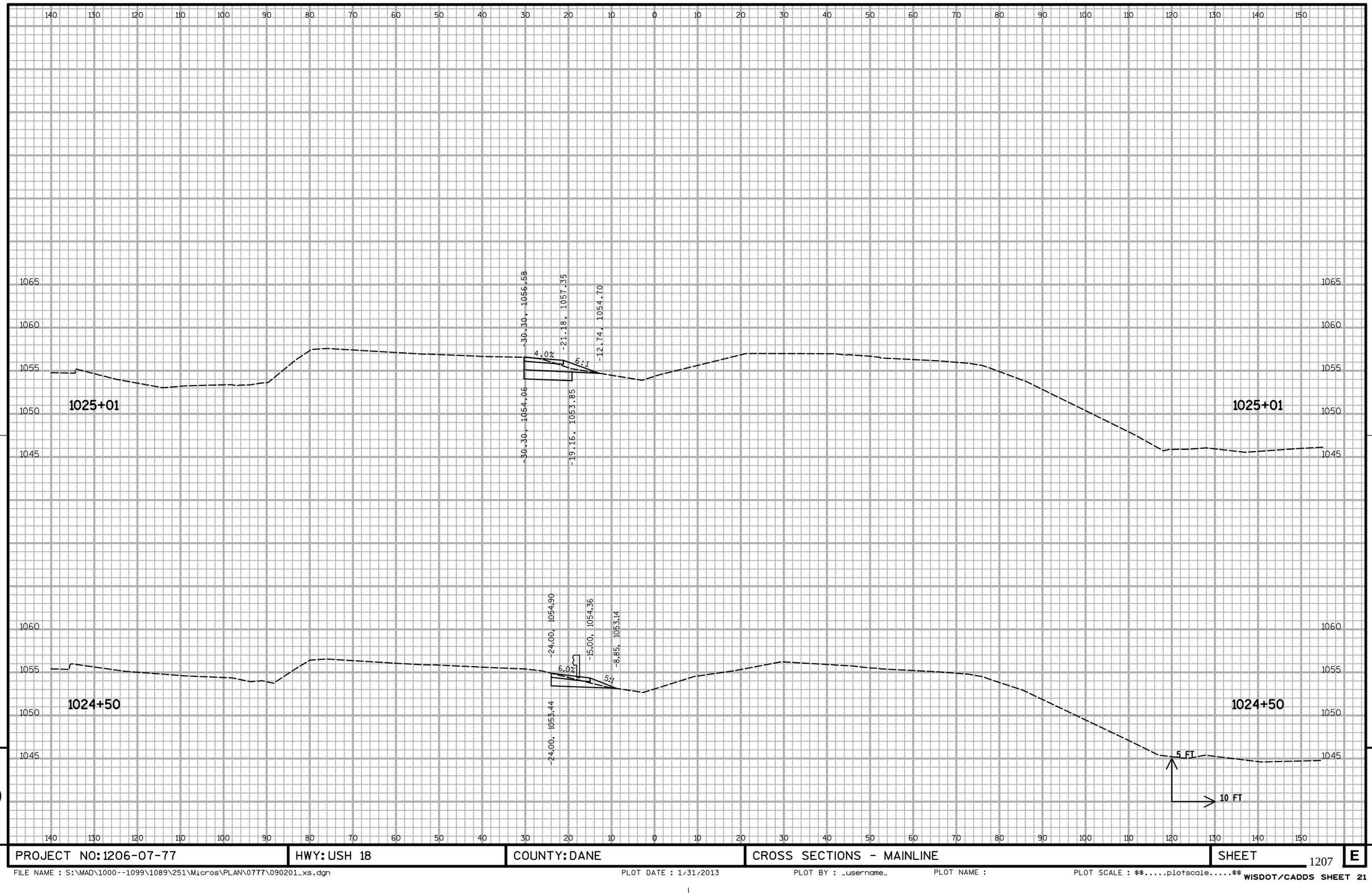


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1206	E

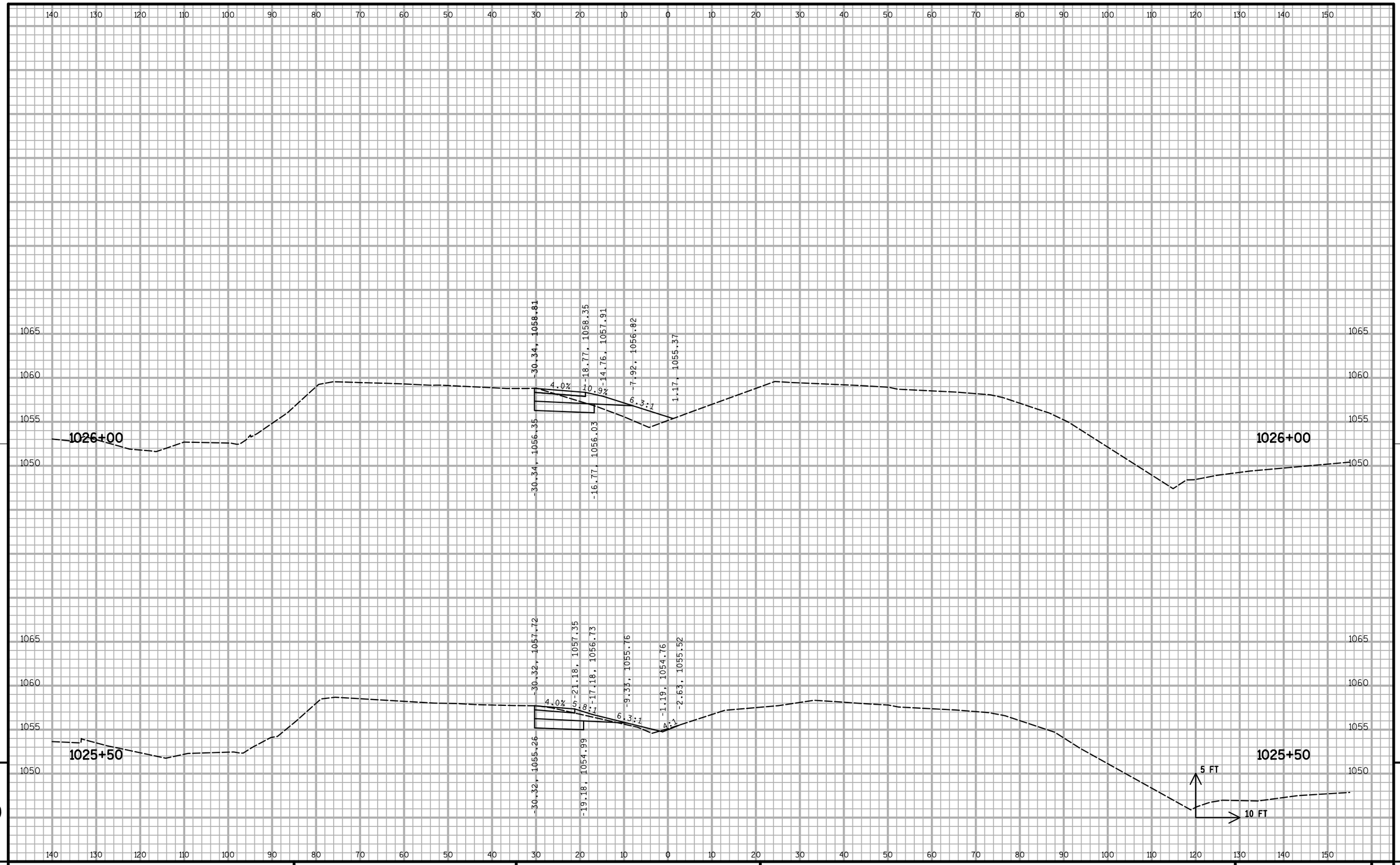
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1207	E

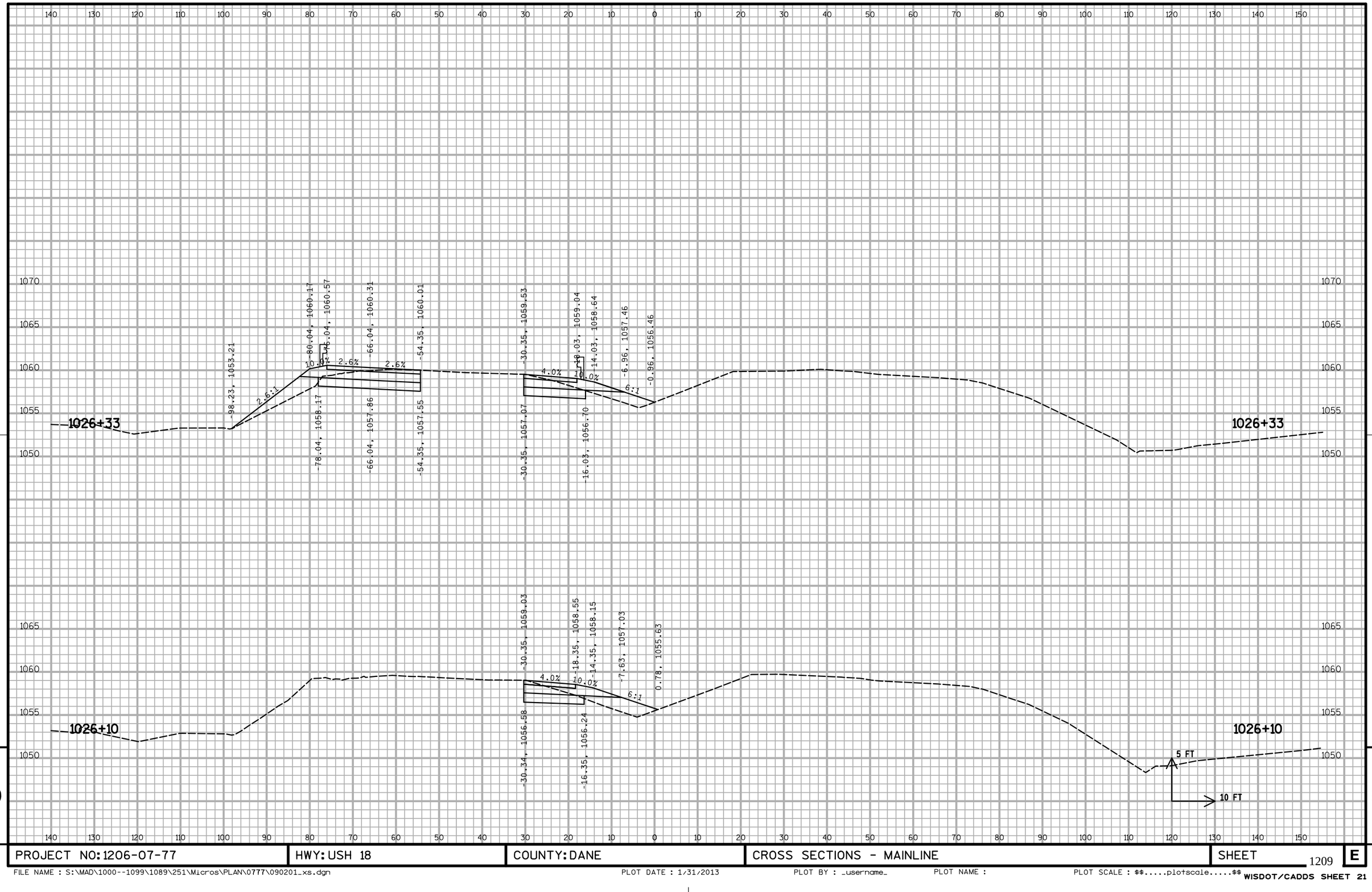


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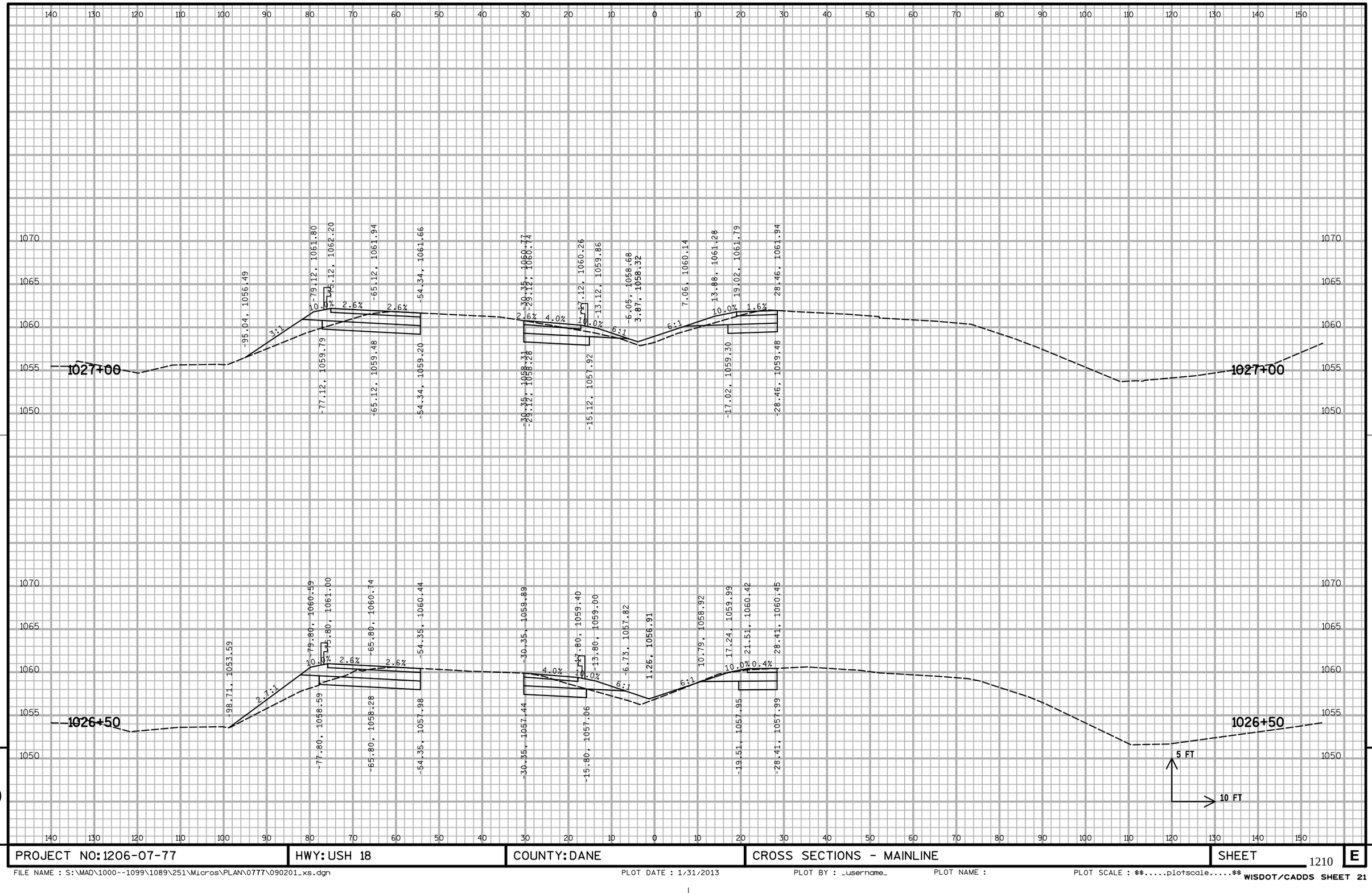
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET	E

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1209	E

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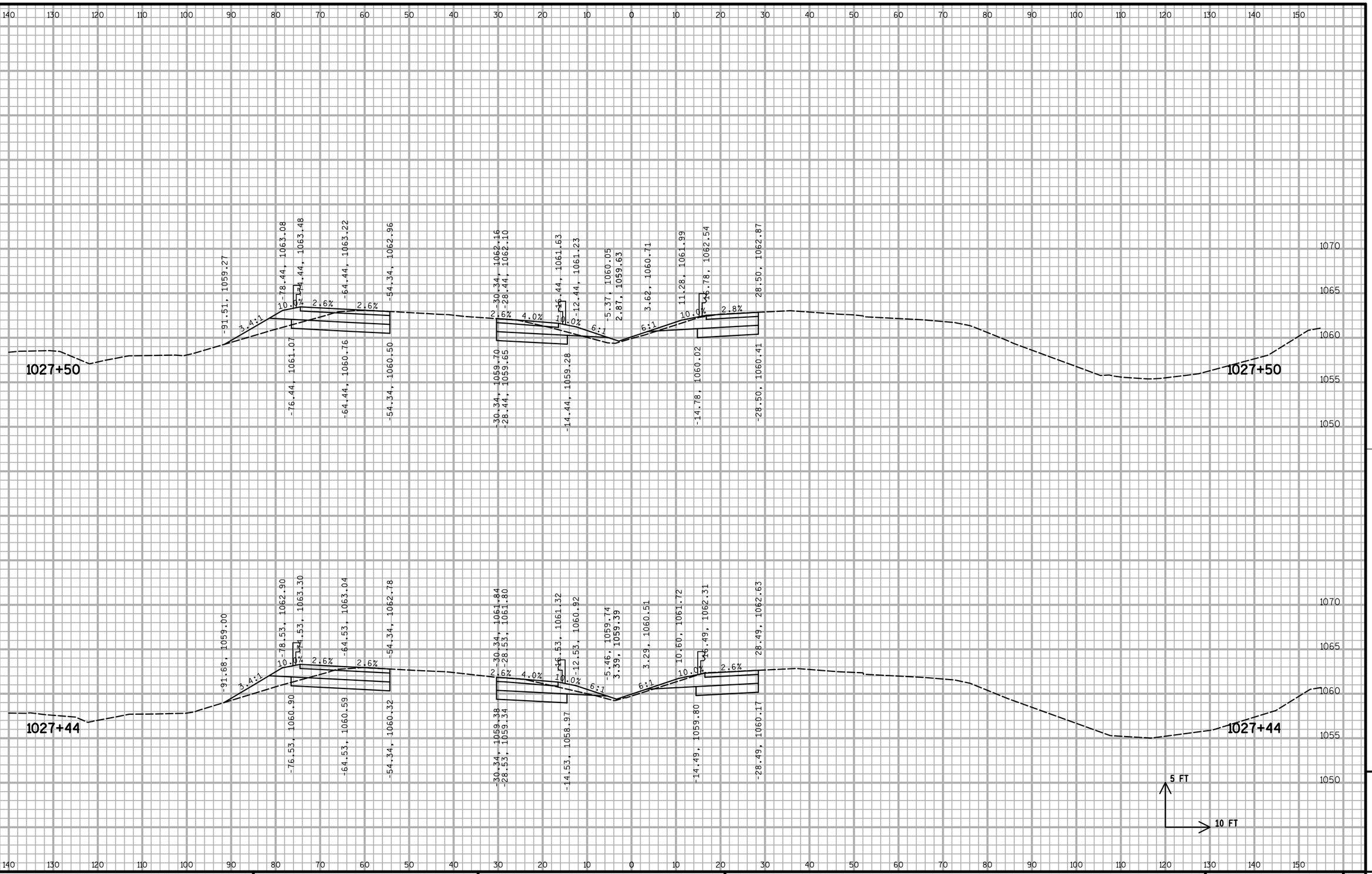


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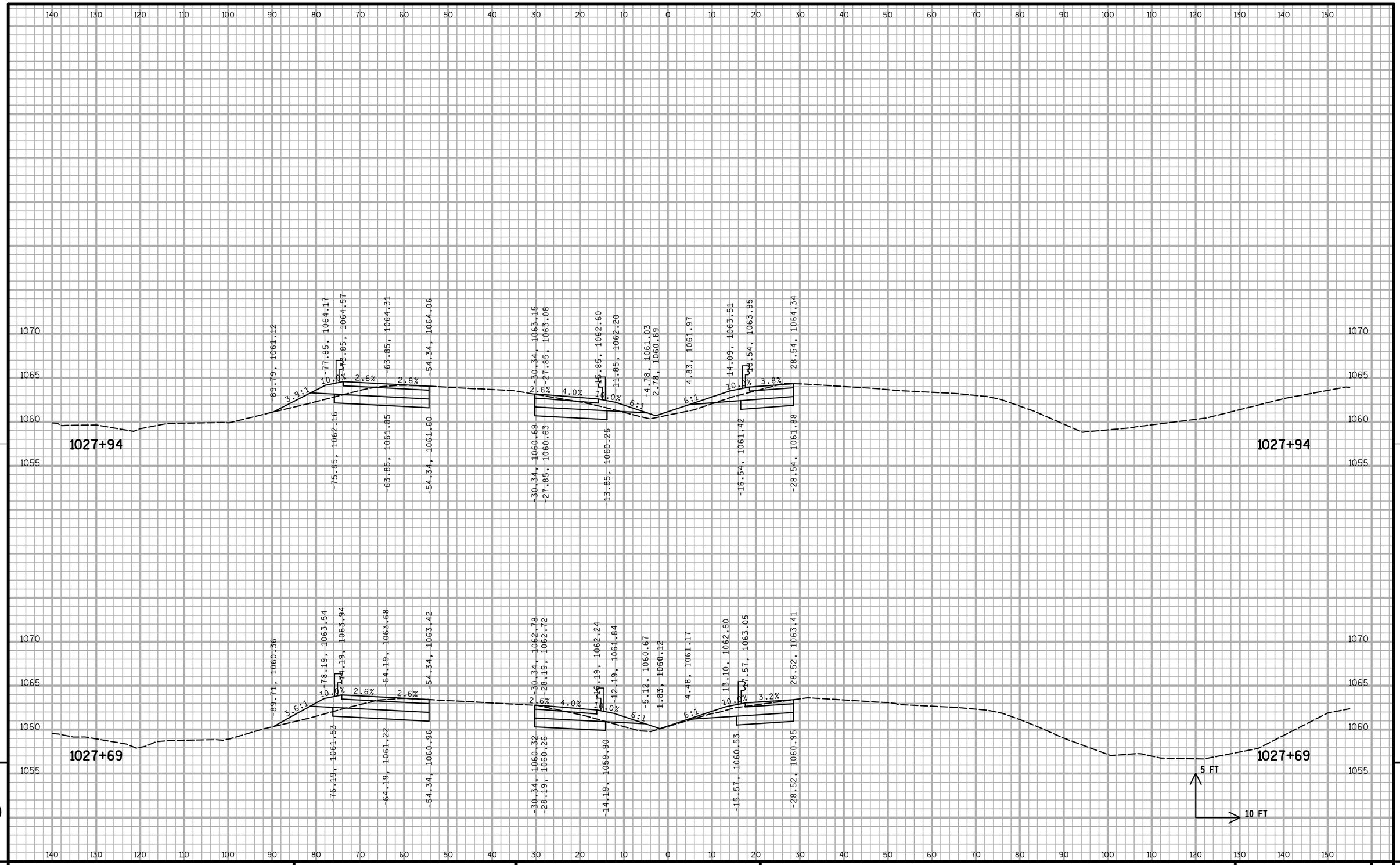
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1210	E

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1211	E

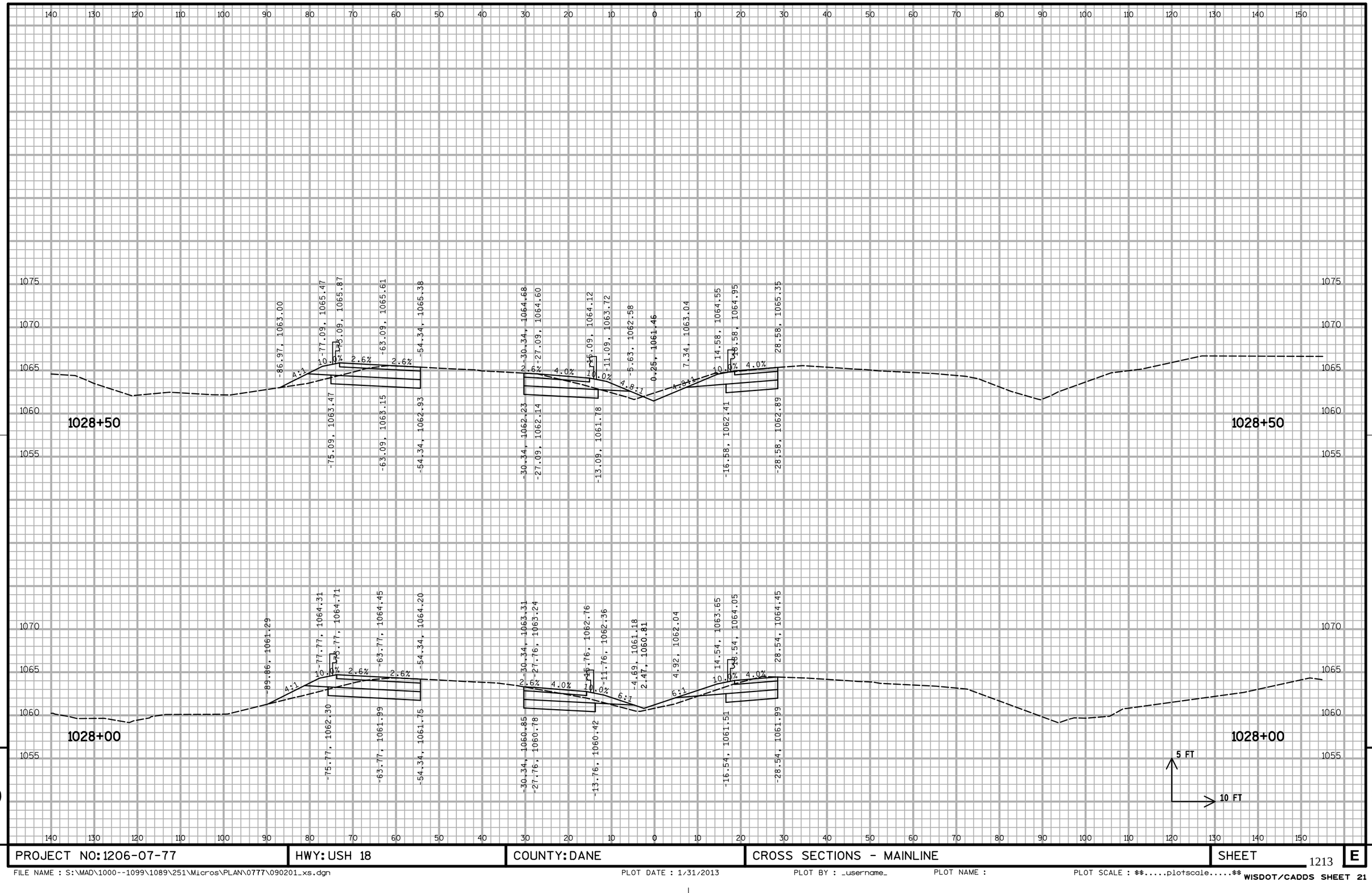


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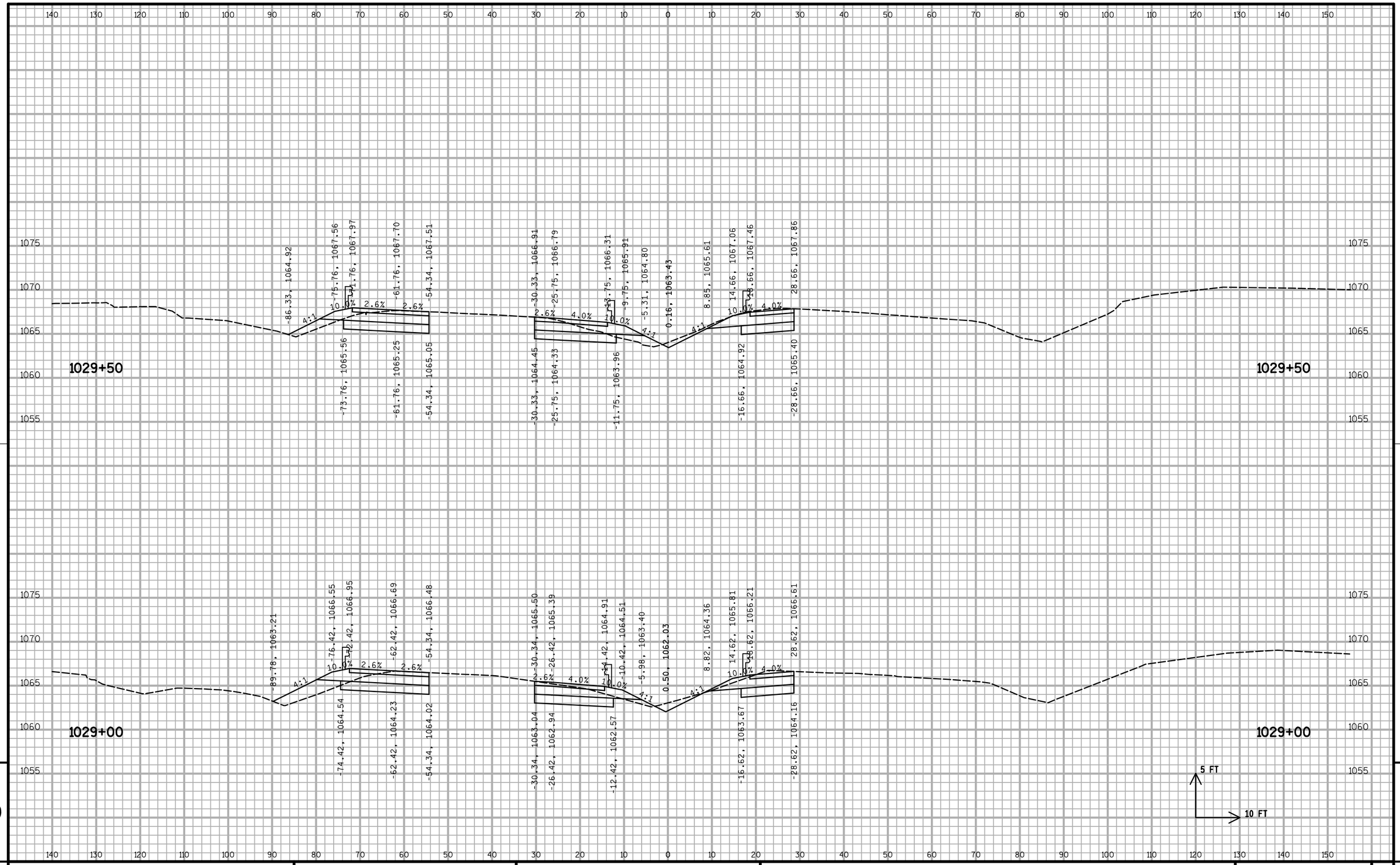
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1212	E

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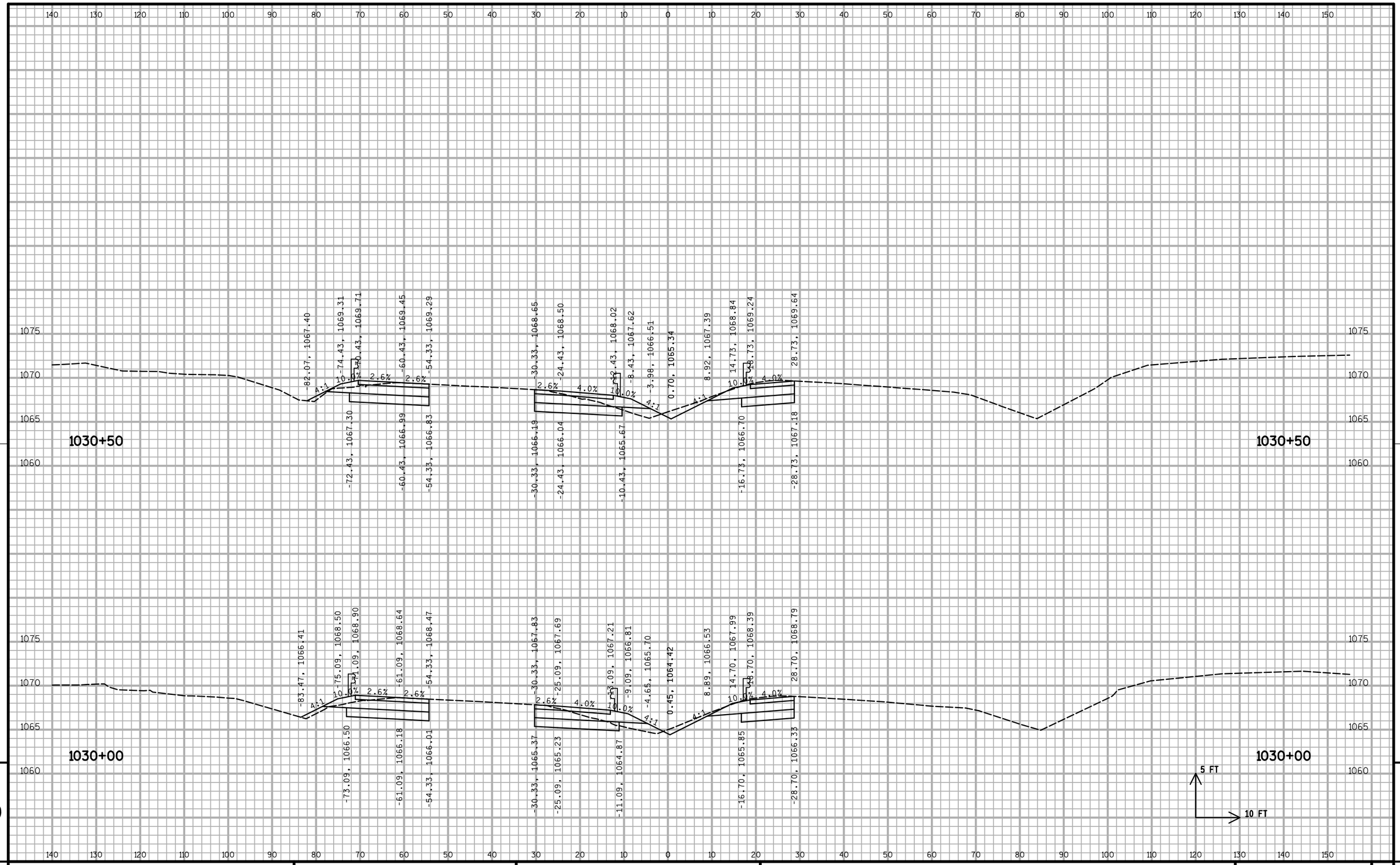
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1214	E

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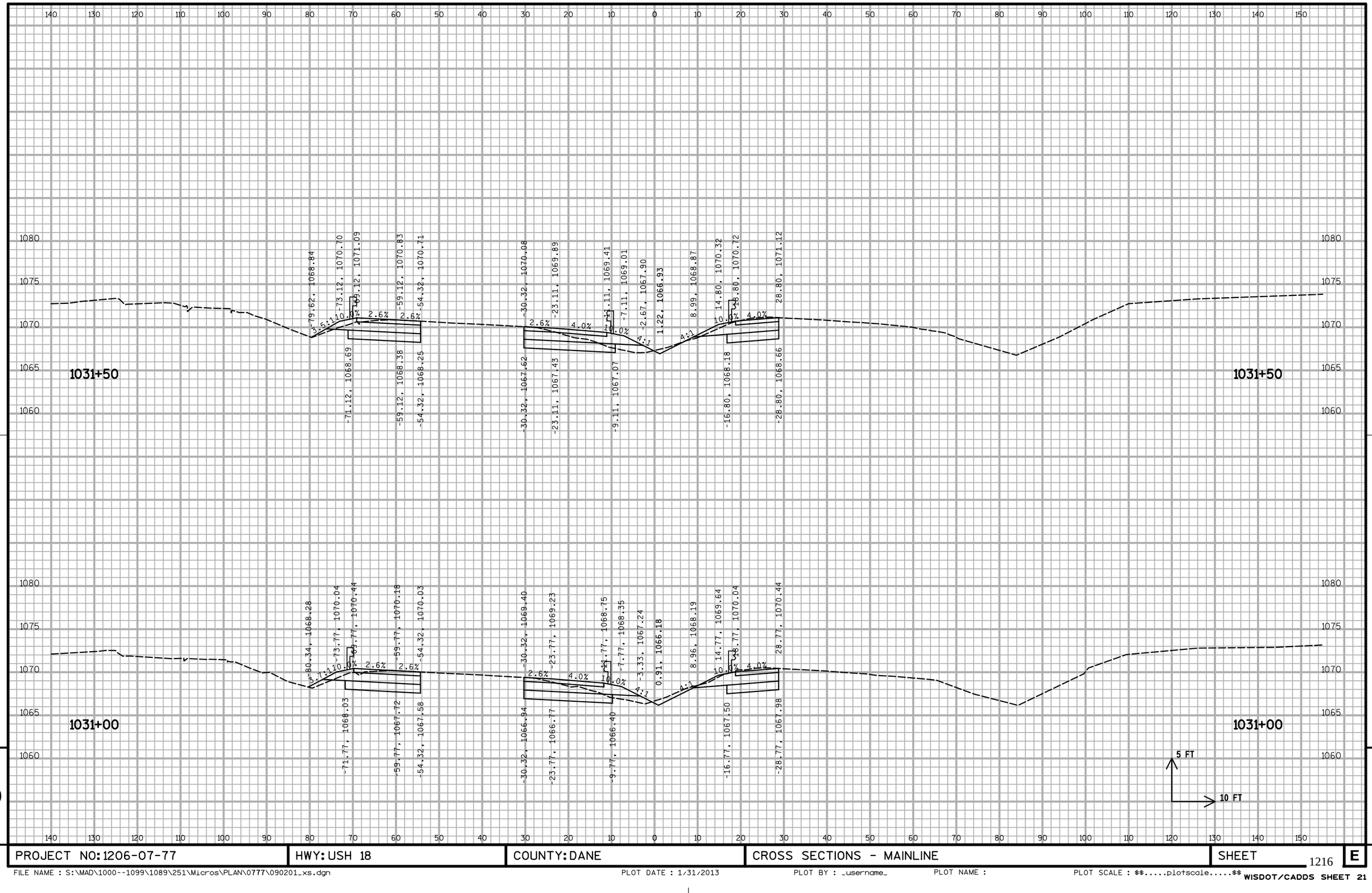
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET	E

1215

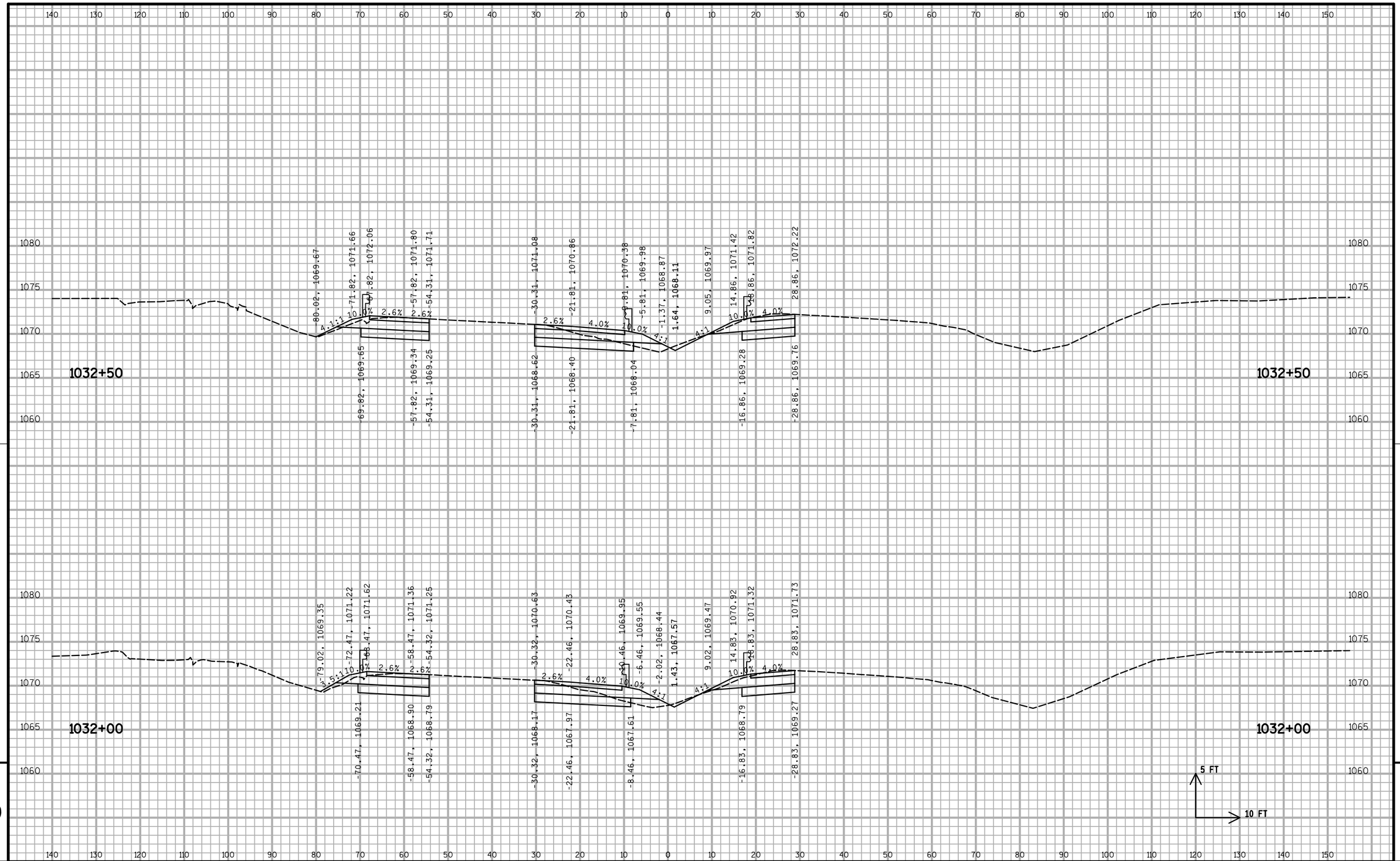
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WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1216 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

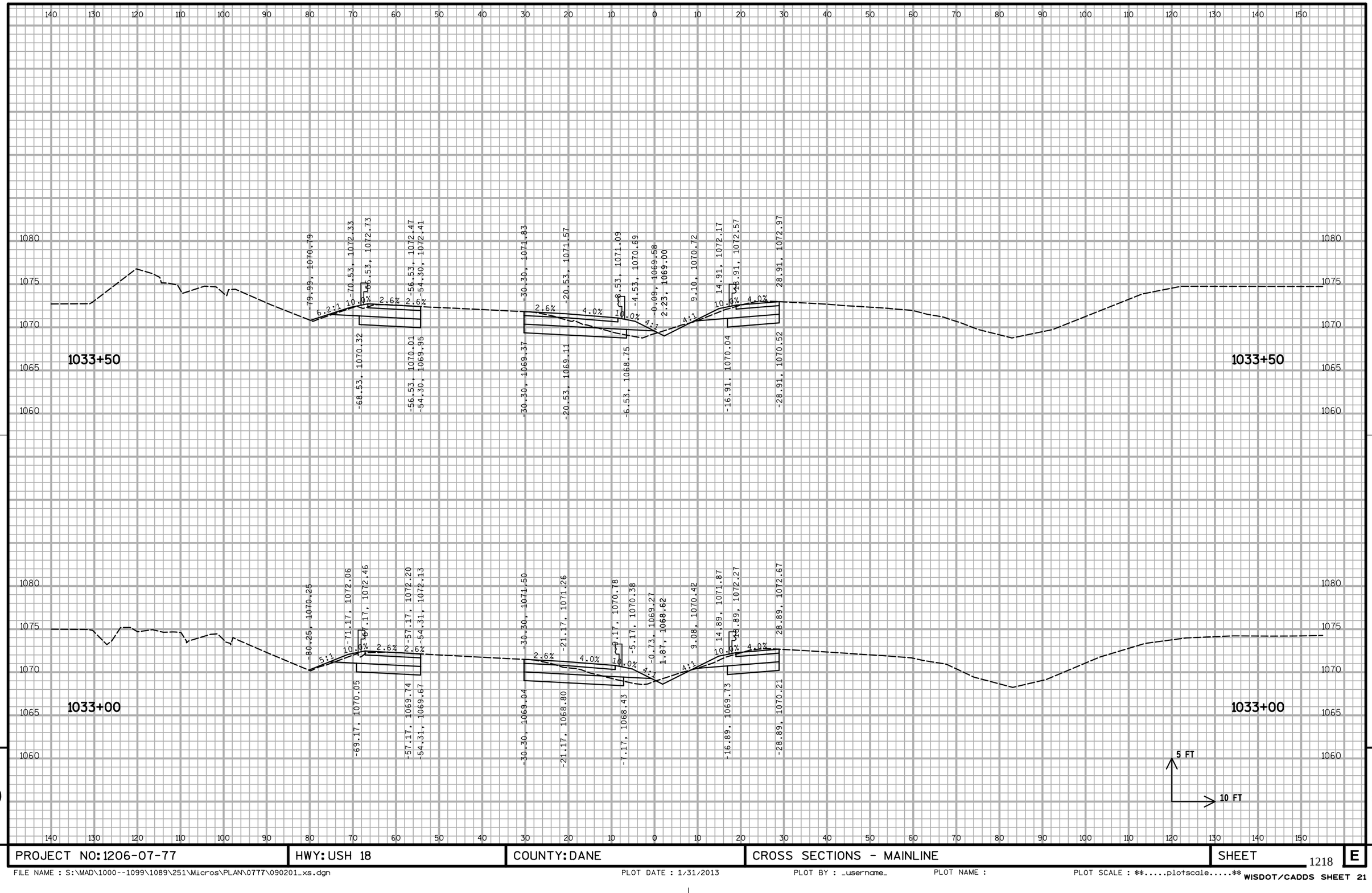


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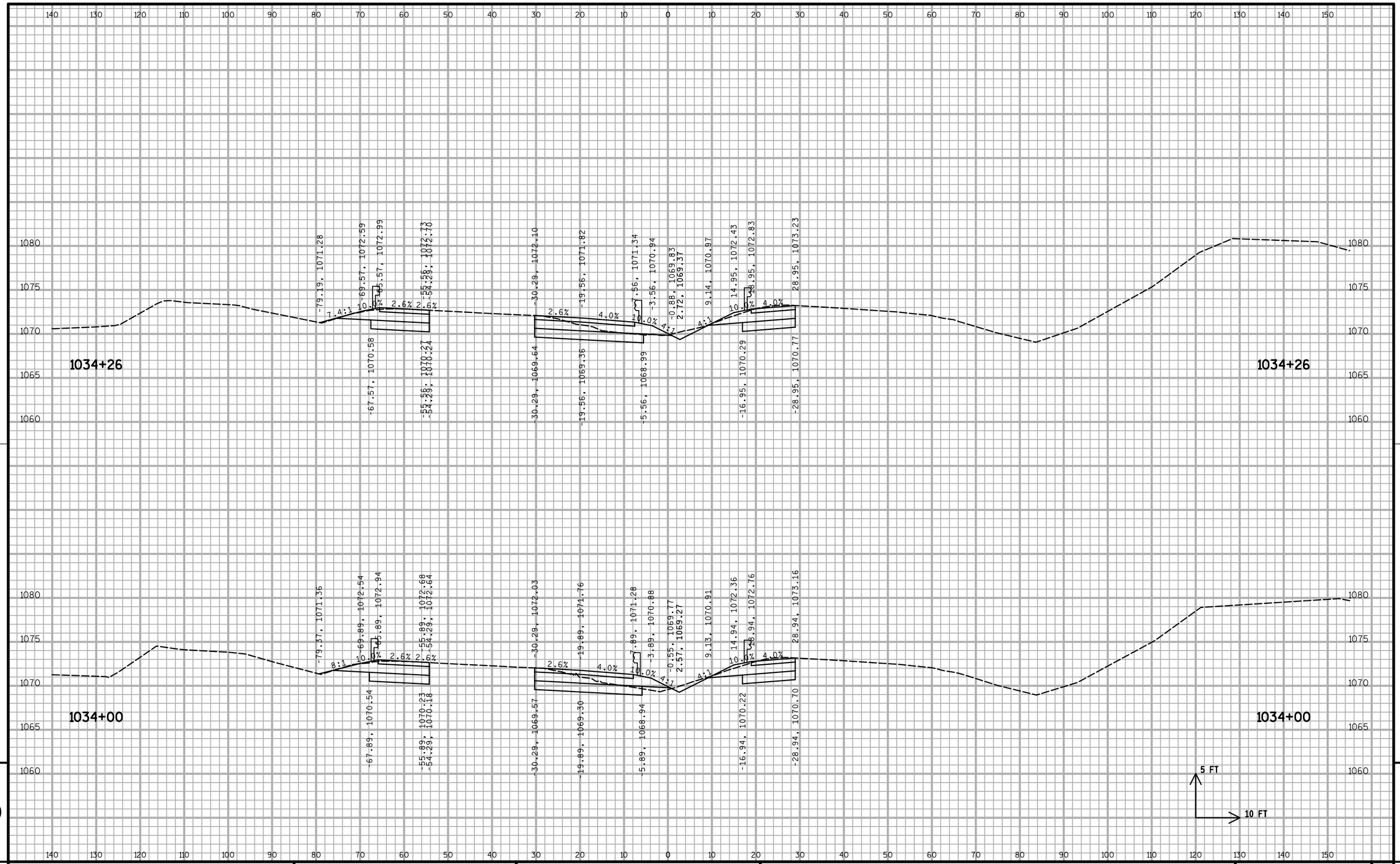
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1217	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1218 E

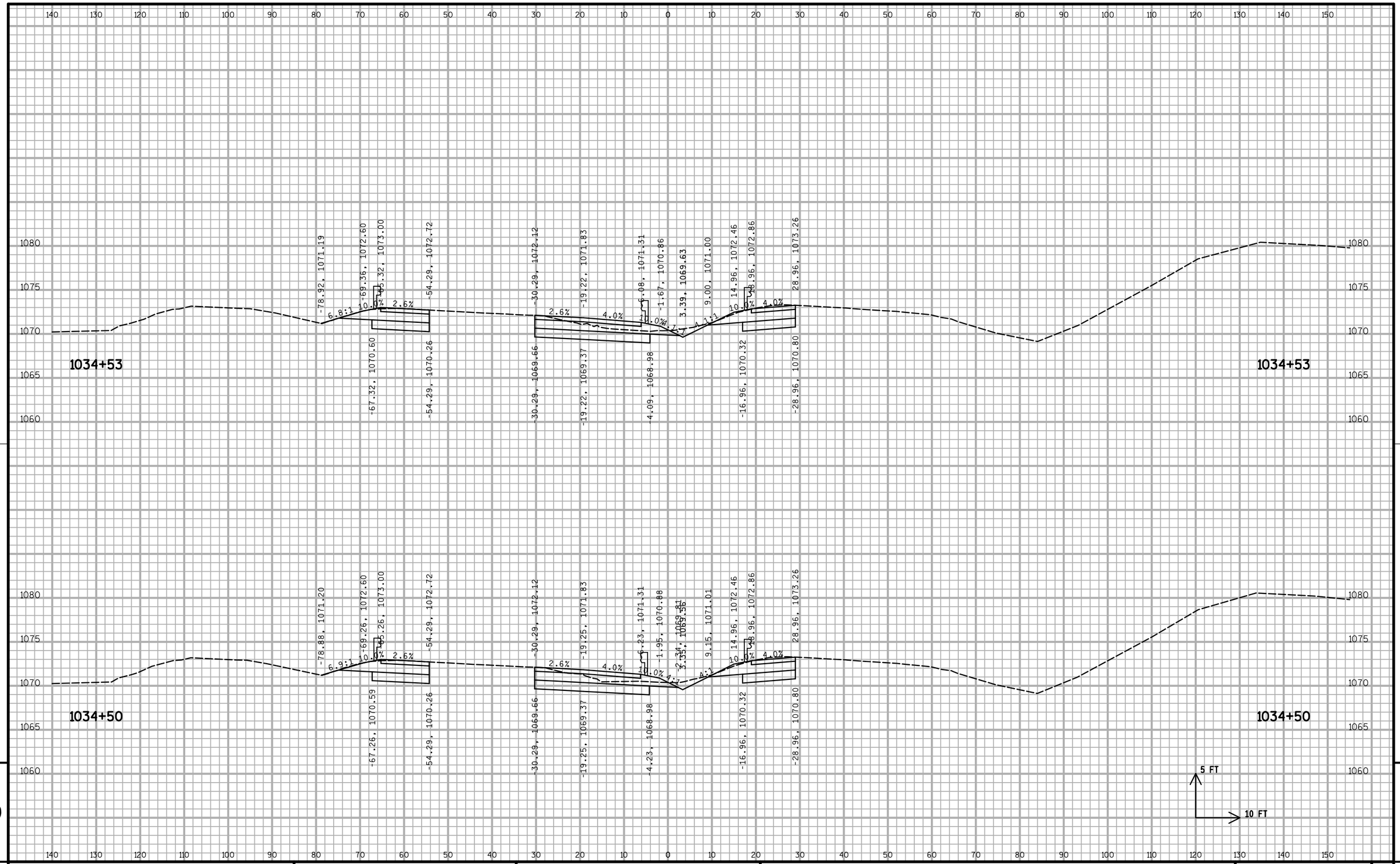


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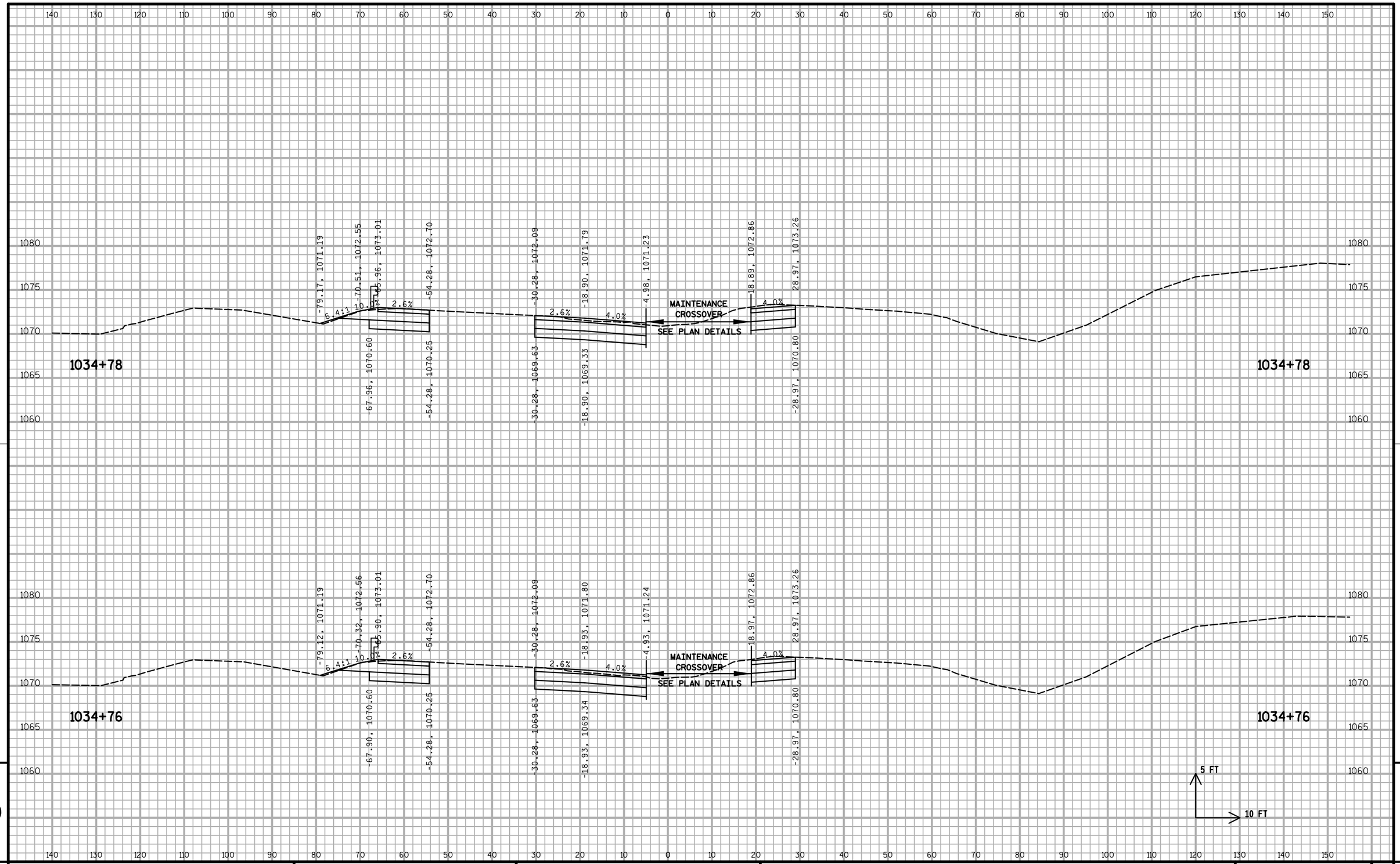
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1219	E

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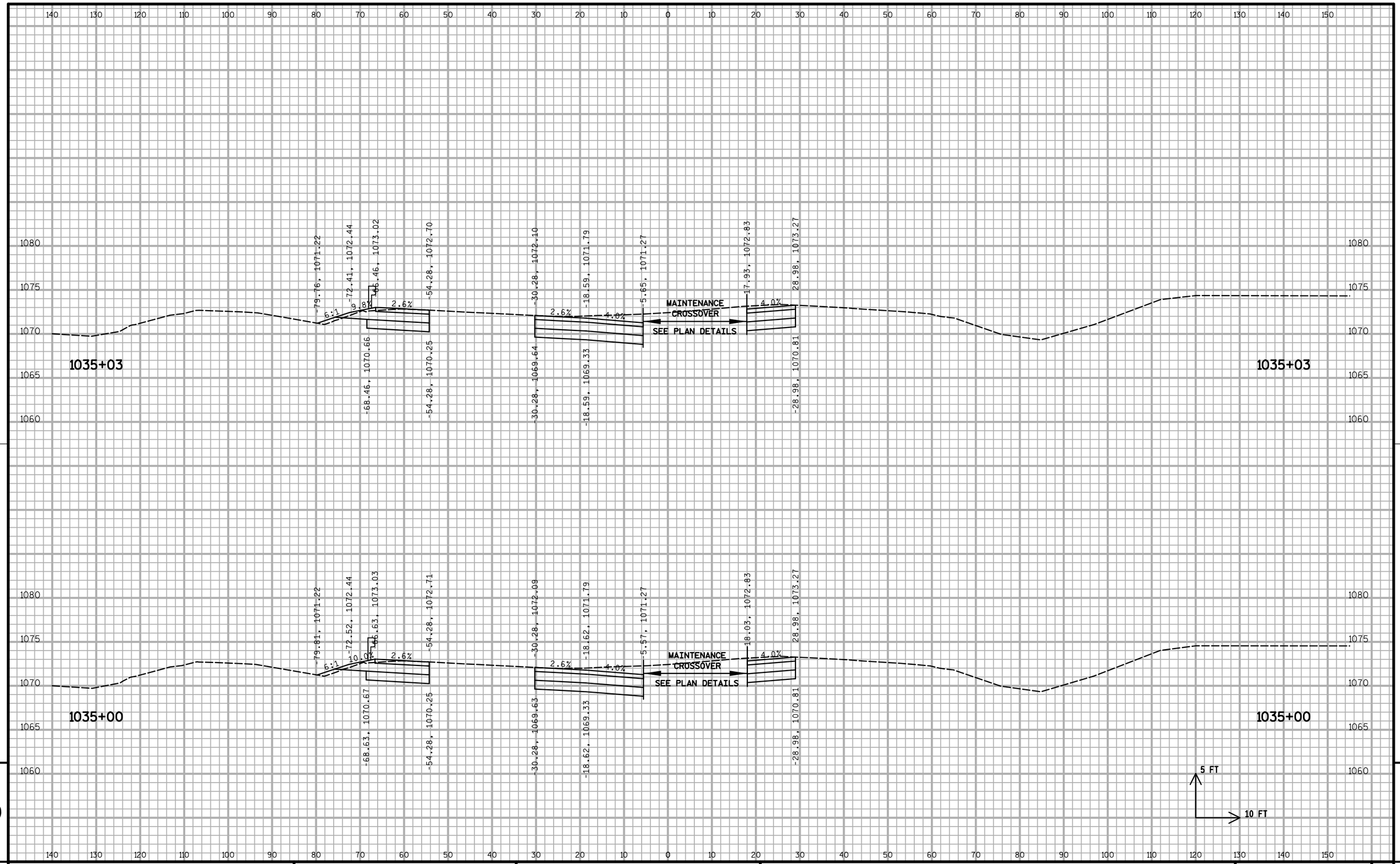
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1221	E

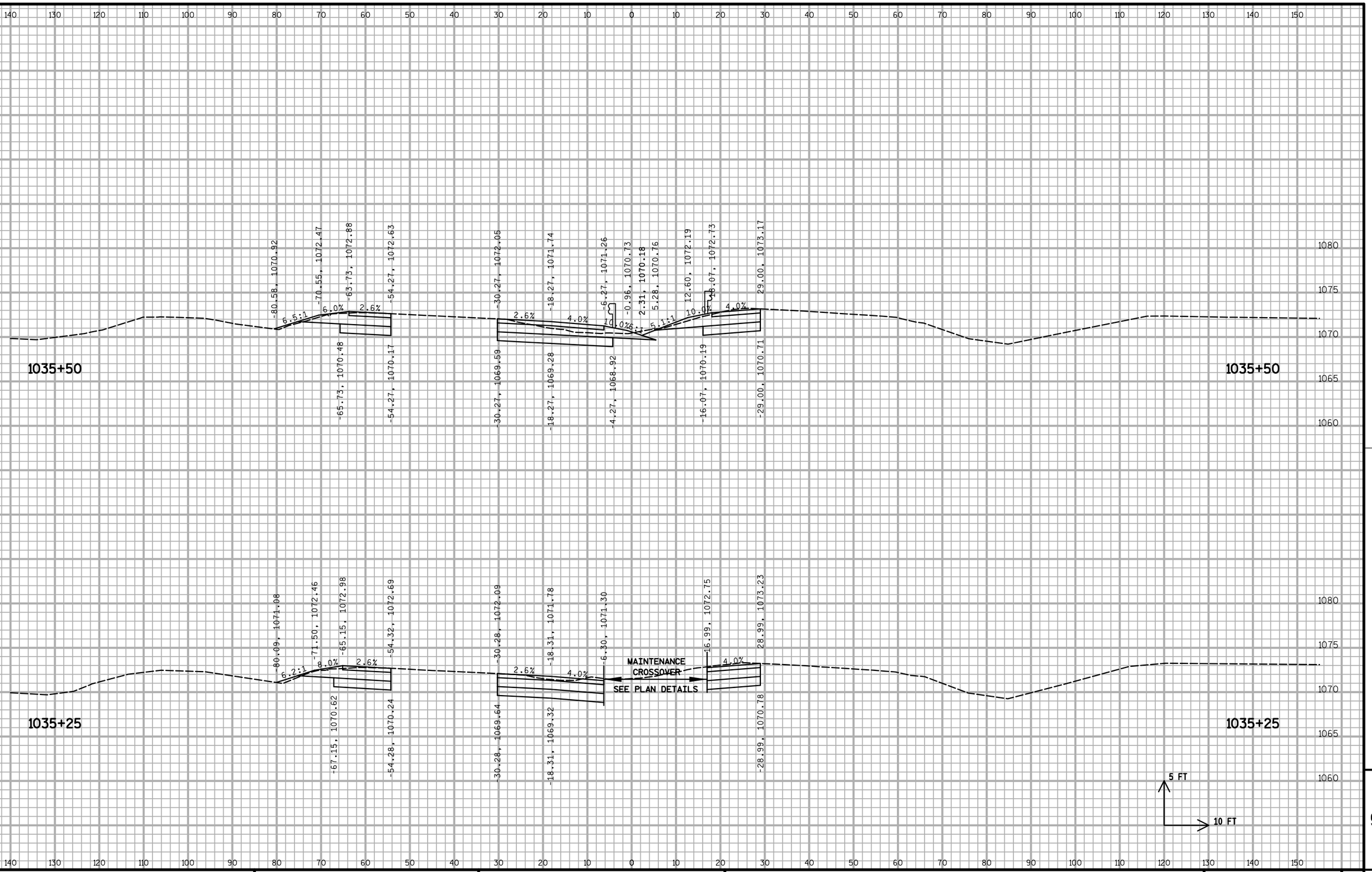


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1222	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

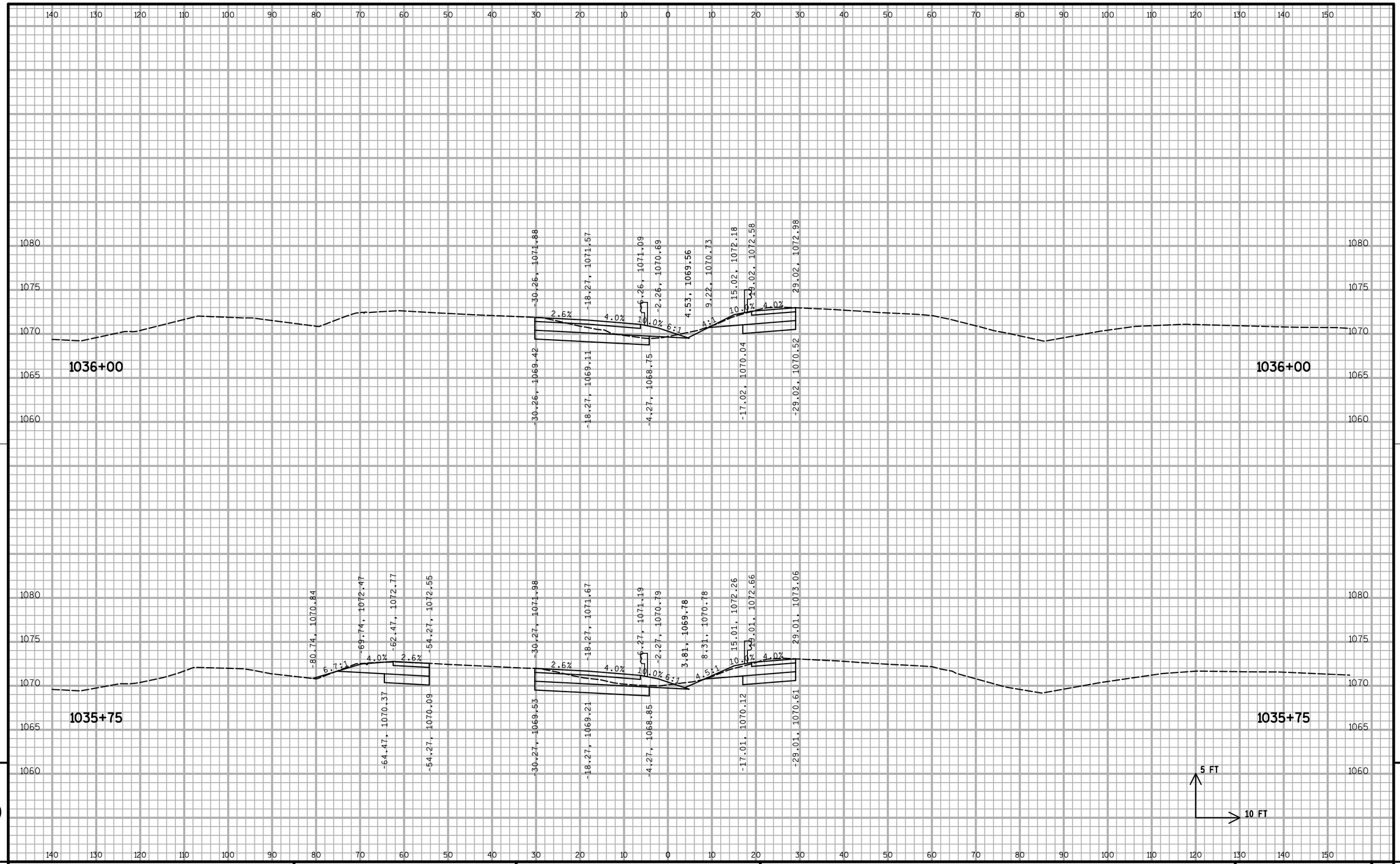


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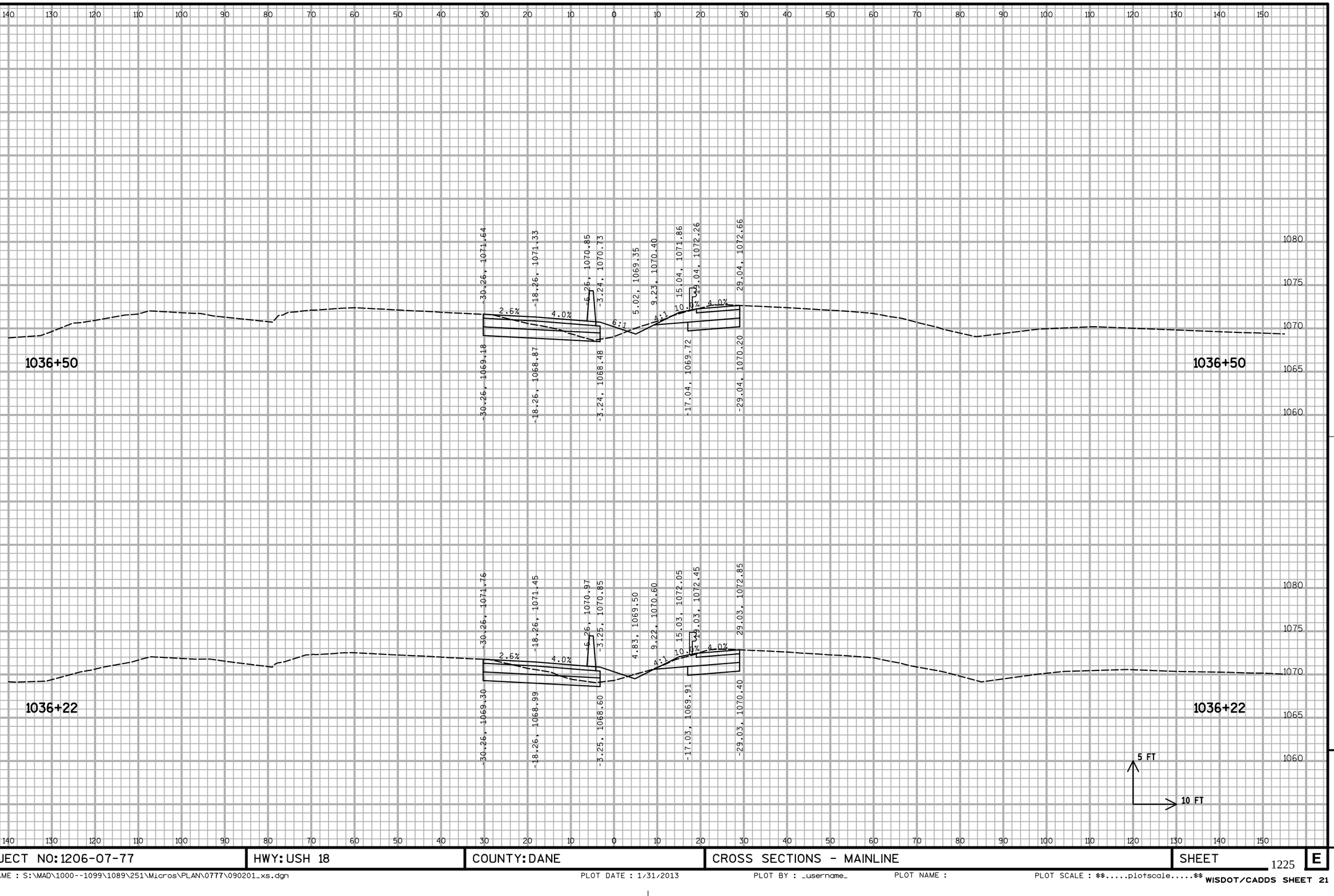
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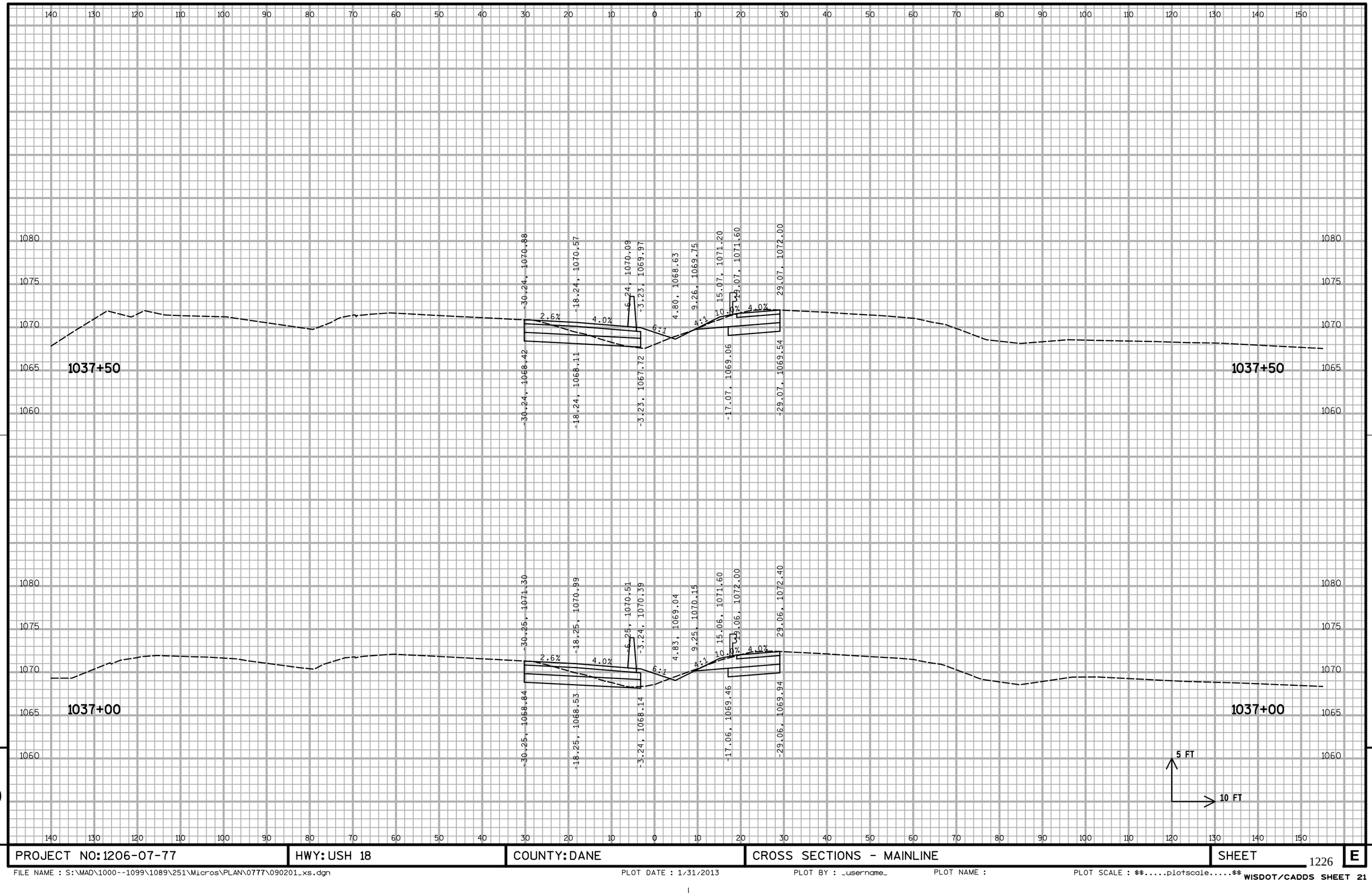
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1224	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



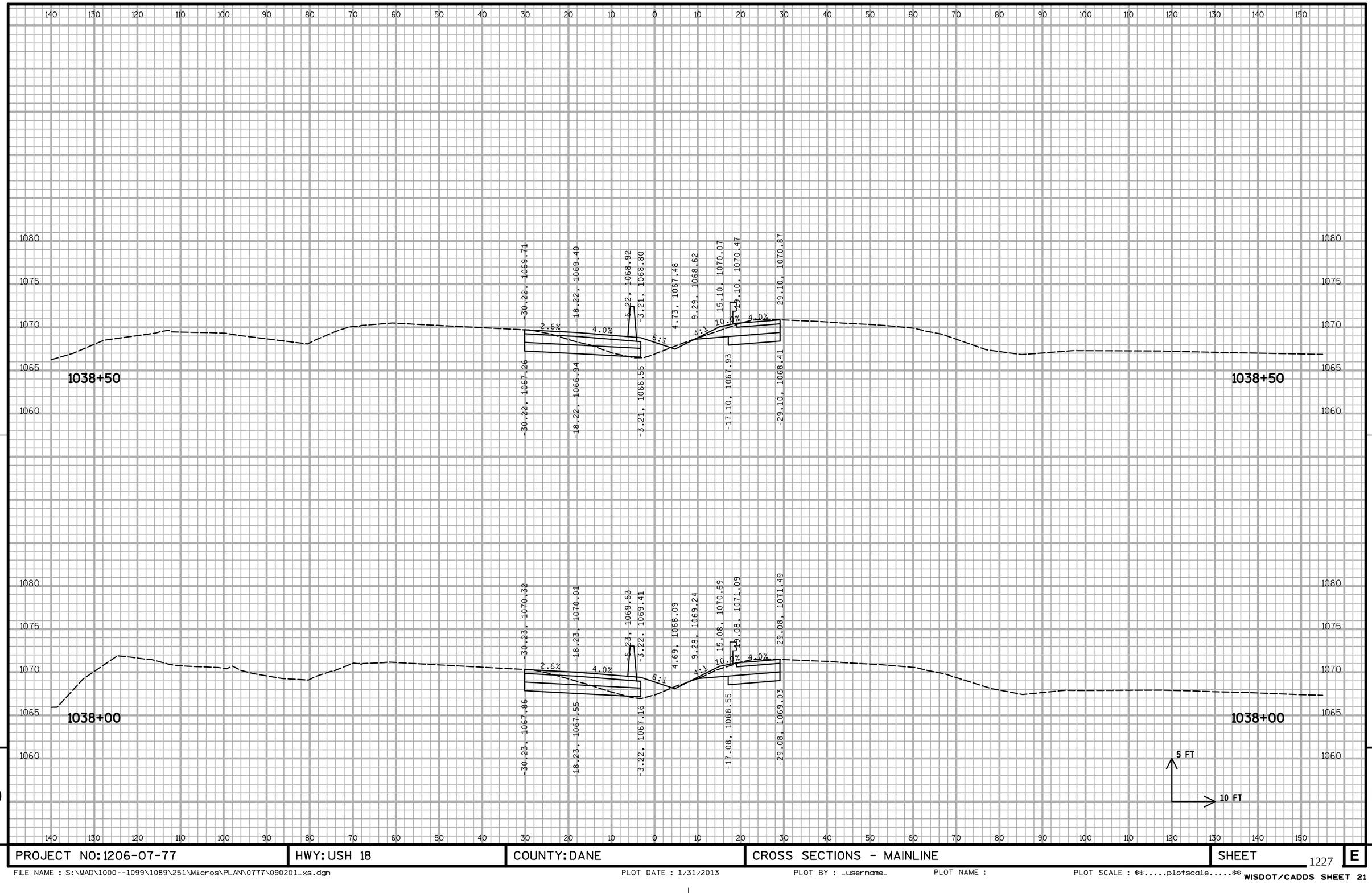
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1225	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1226 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

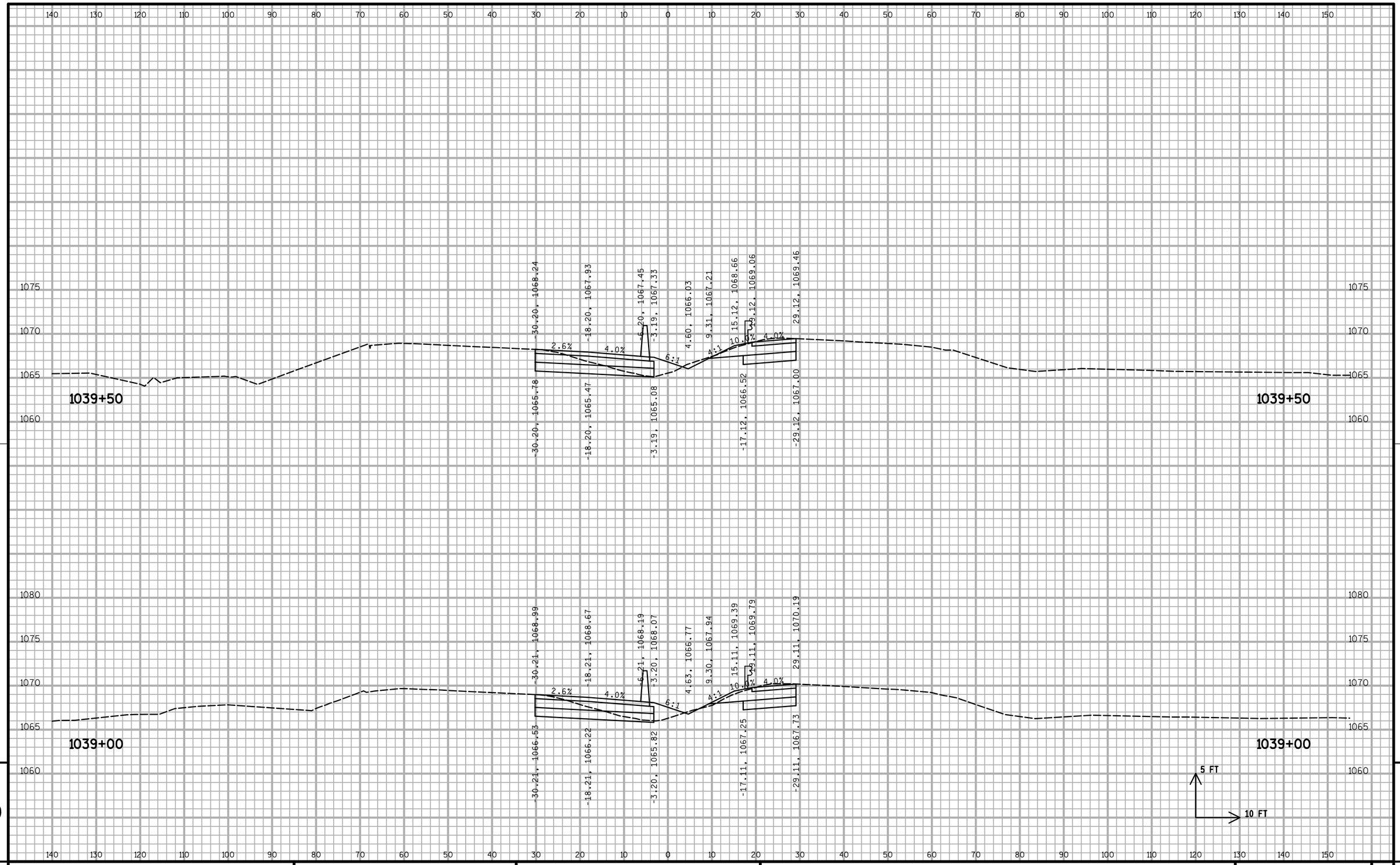


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1227	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

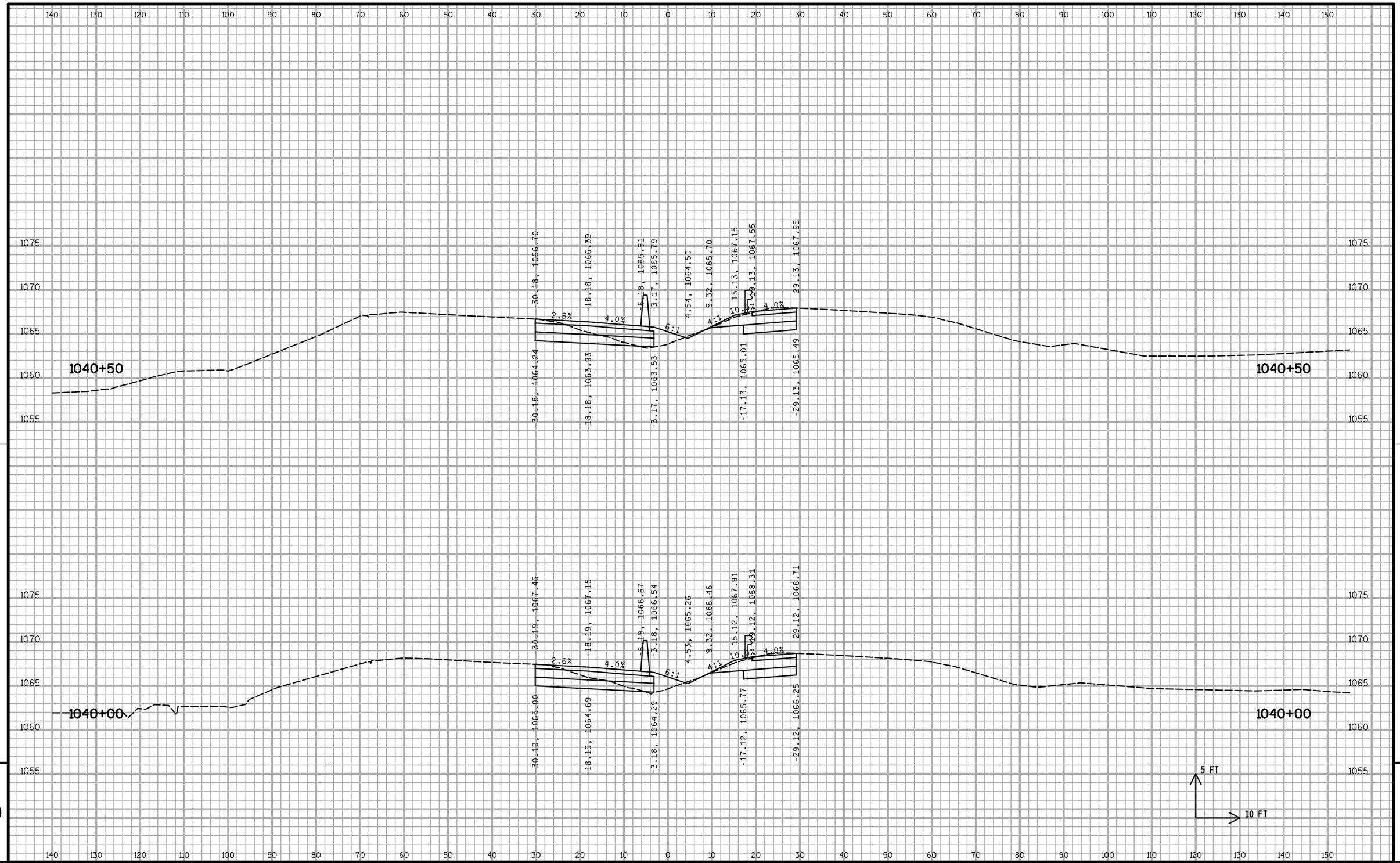


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1228	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

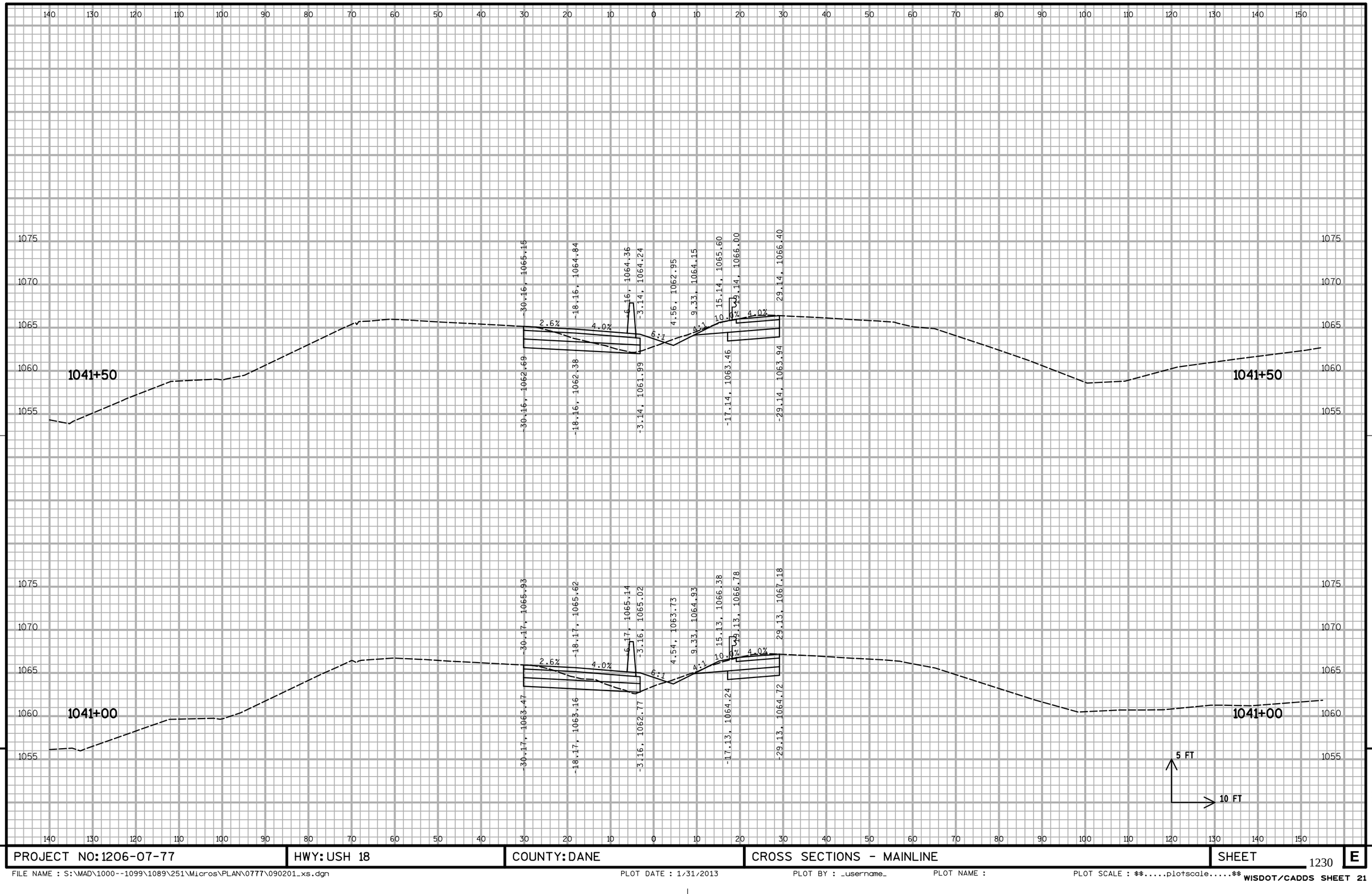


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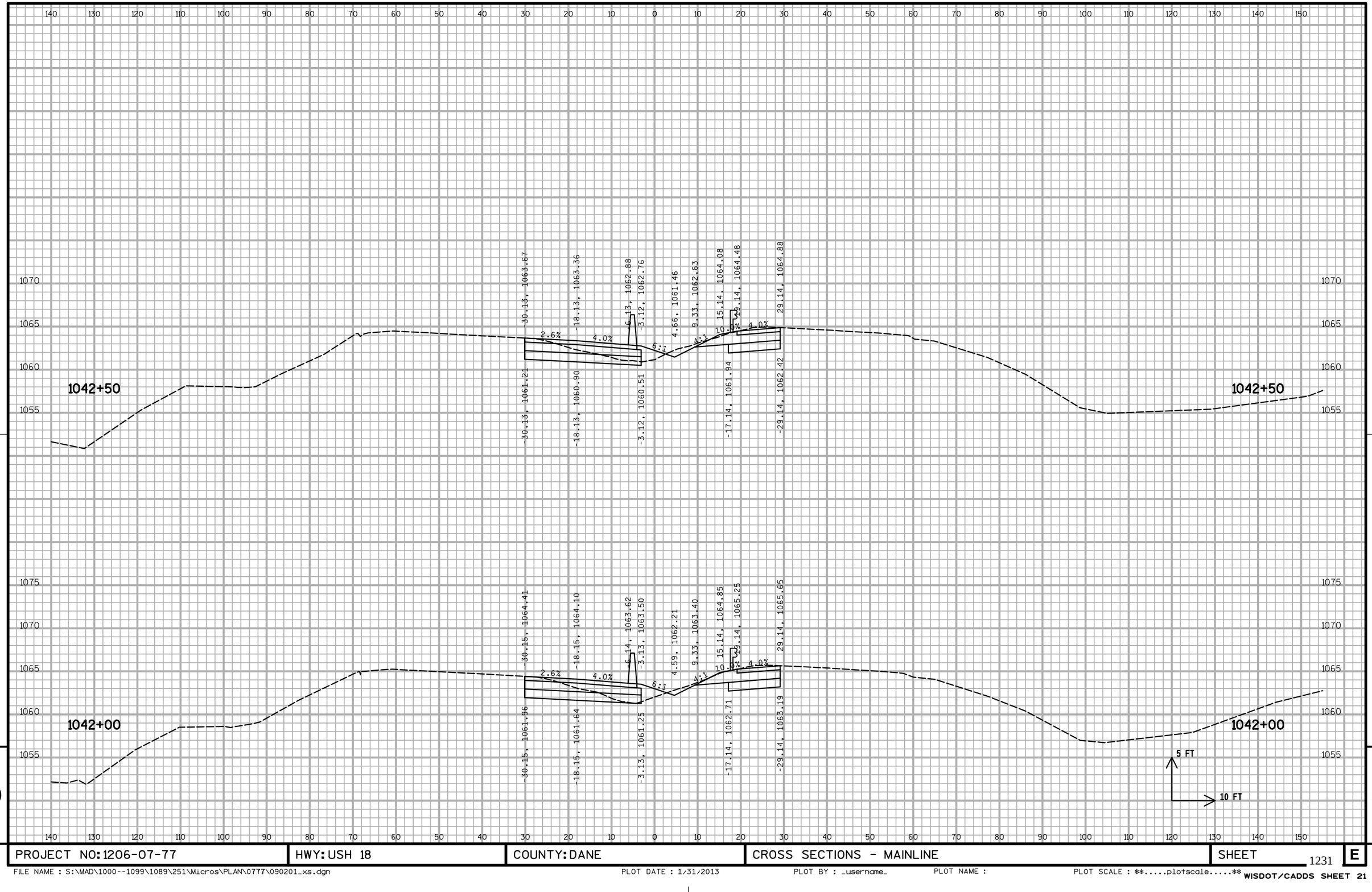
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1229	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1230	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



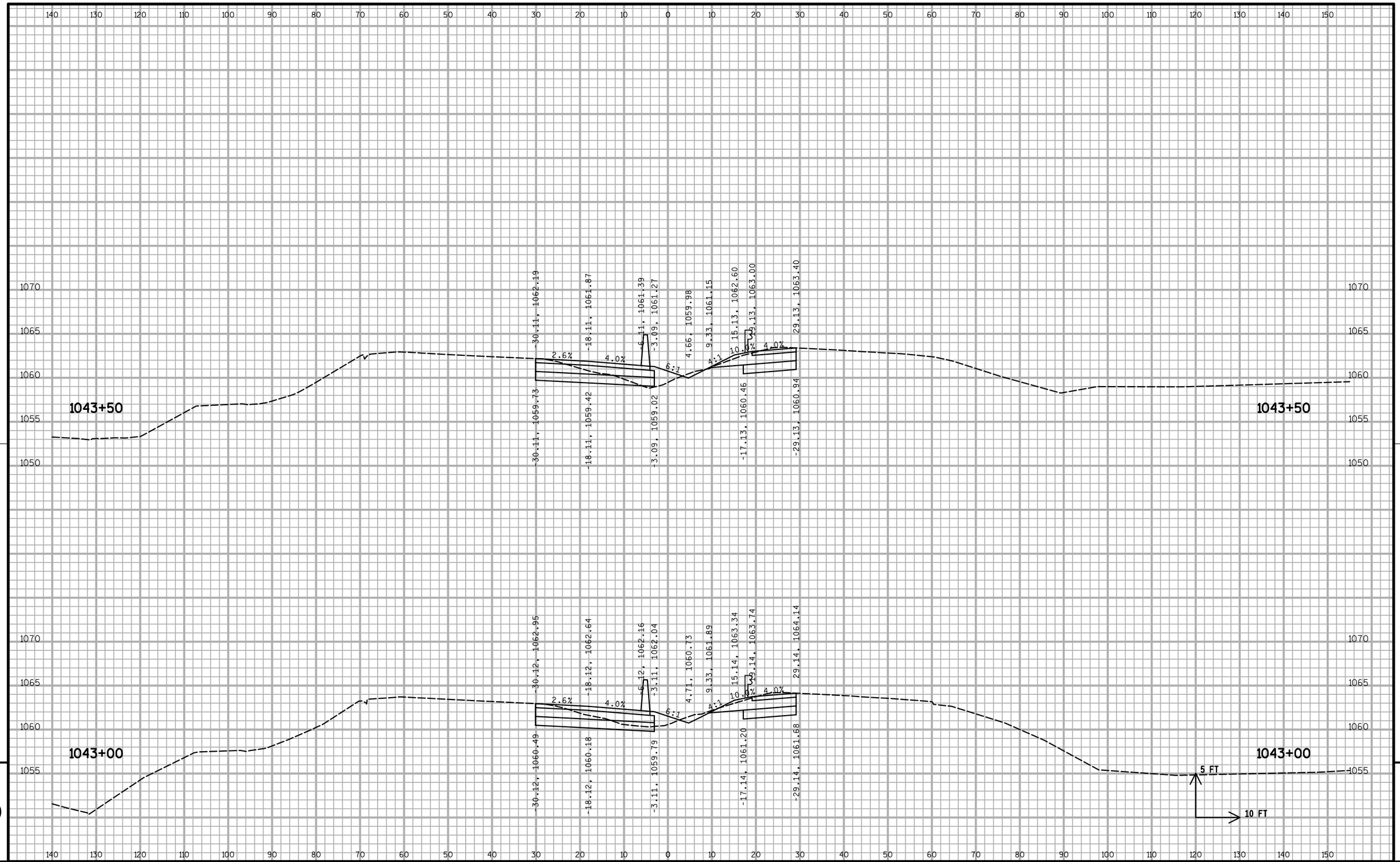
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1231	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

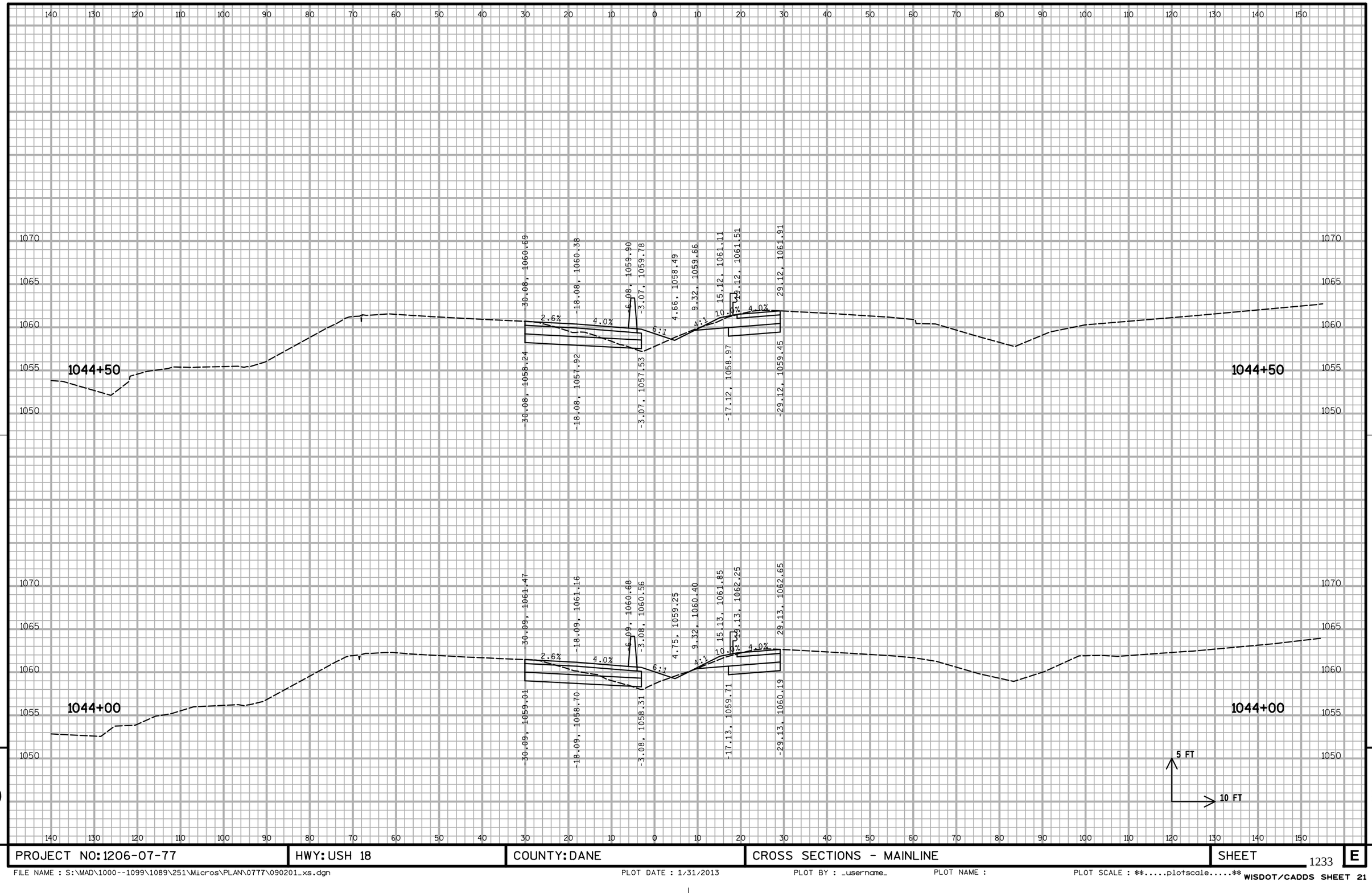
WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1232 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



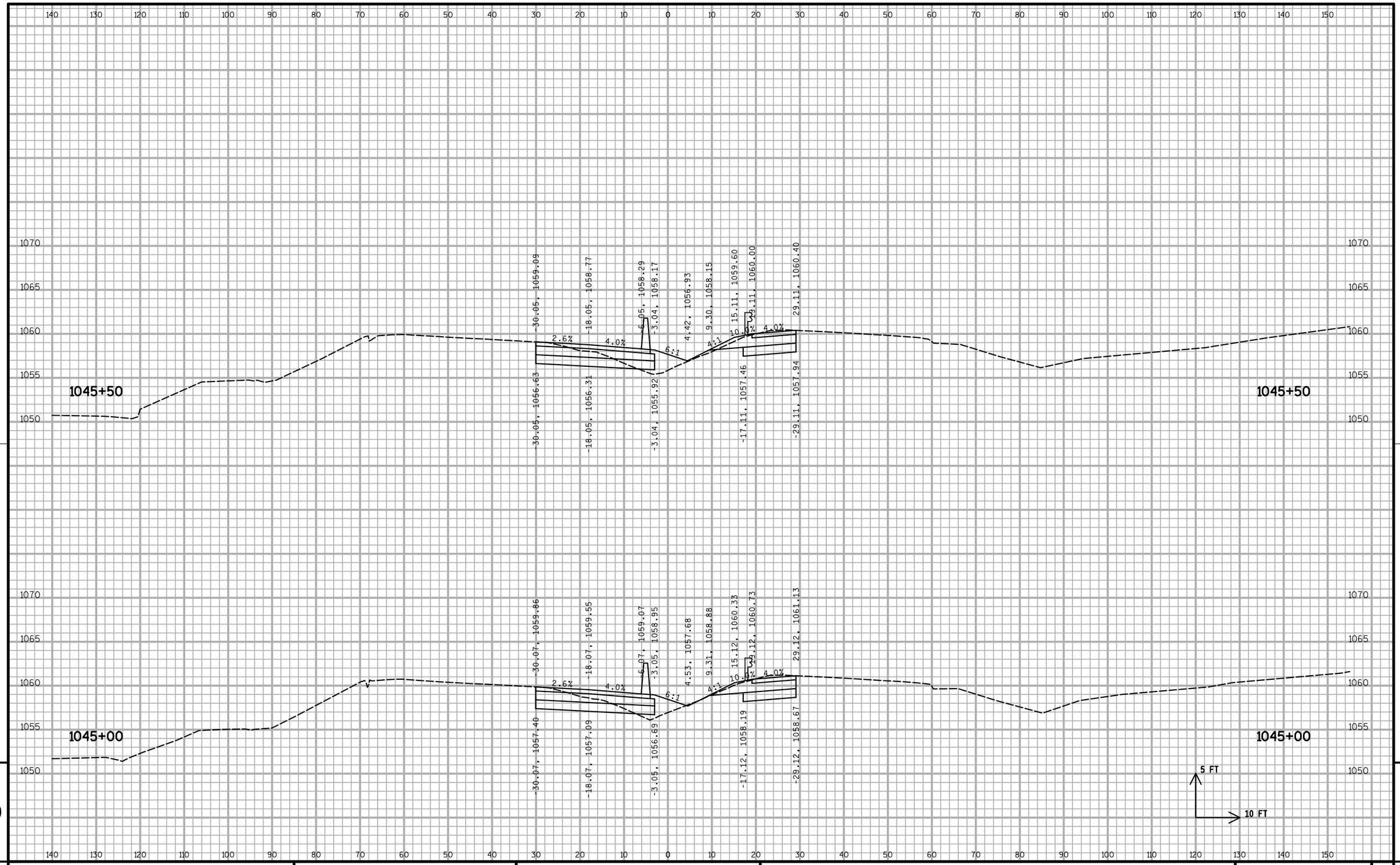
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1233	E

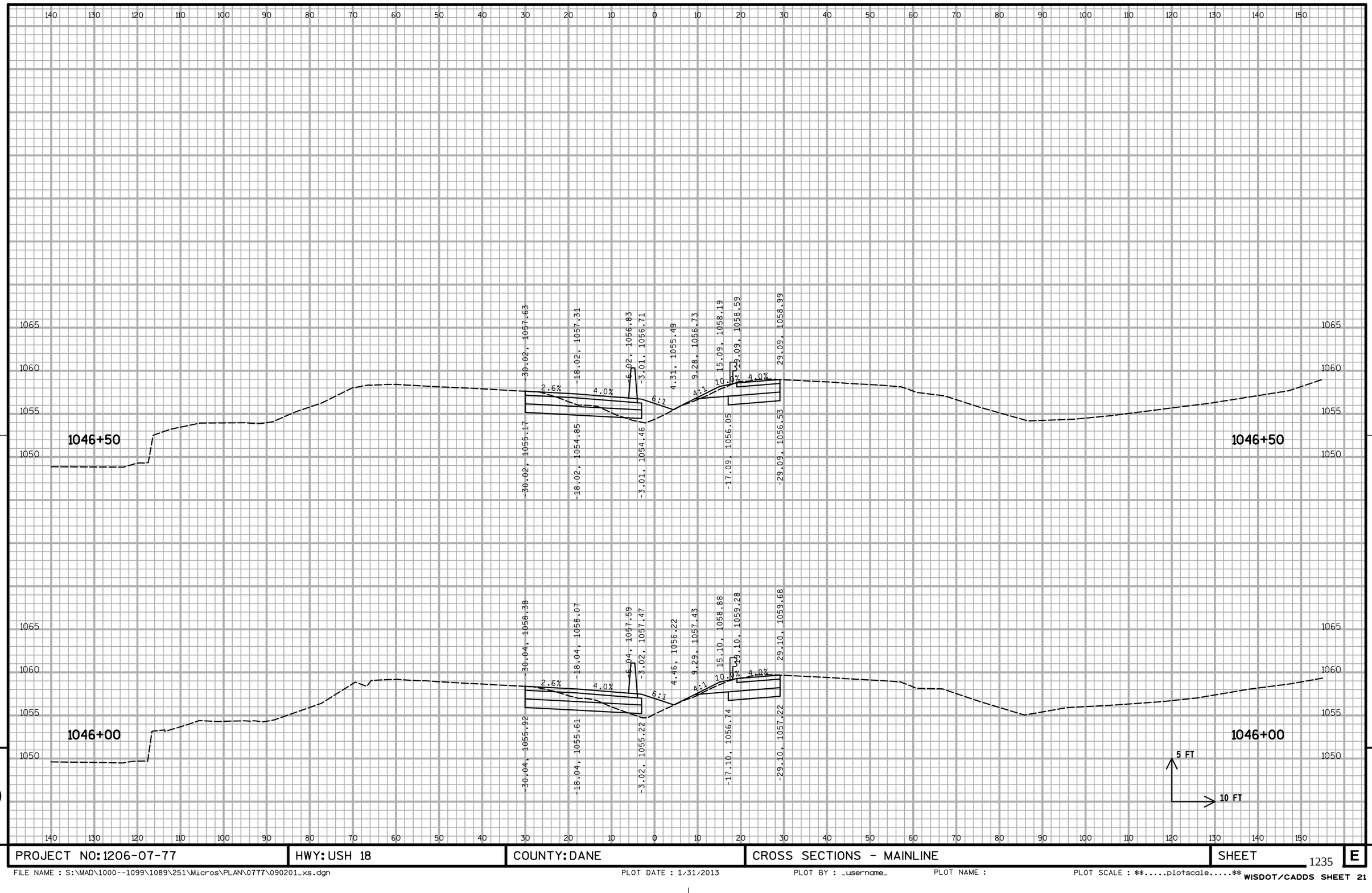
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WISDOT/CADDS SHEET 21



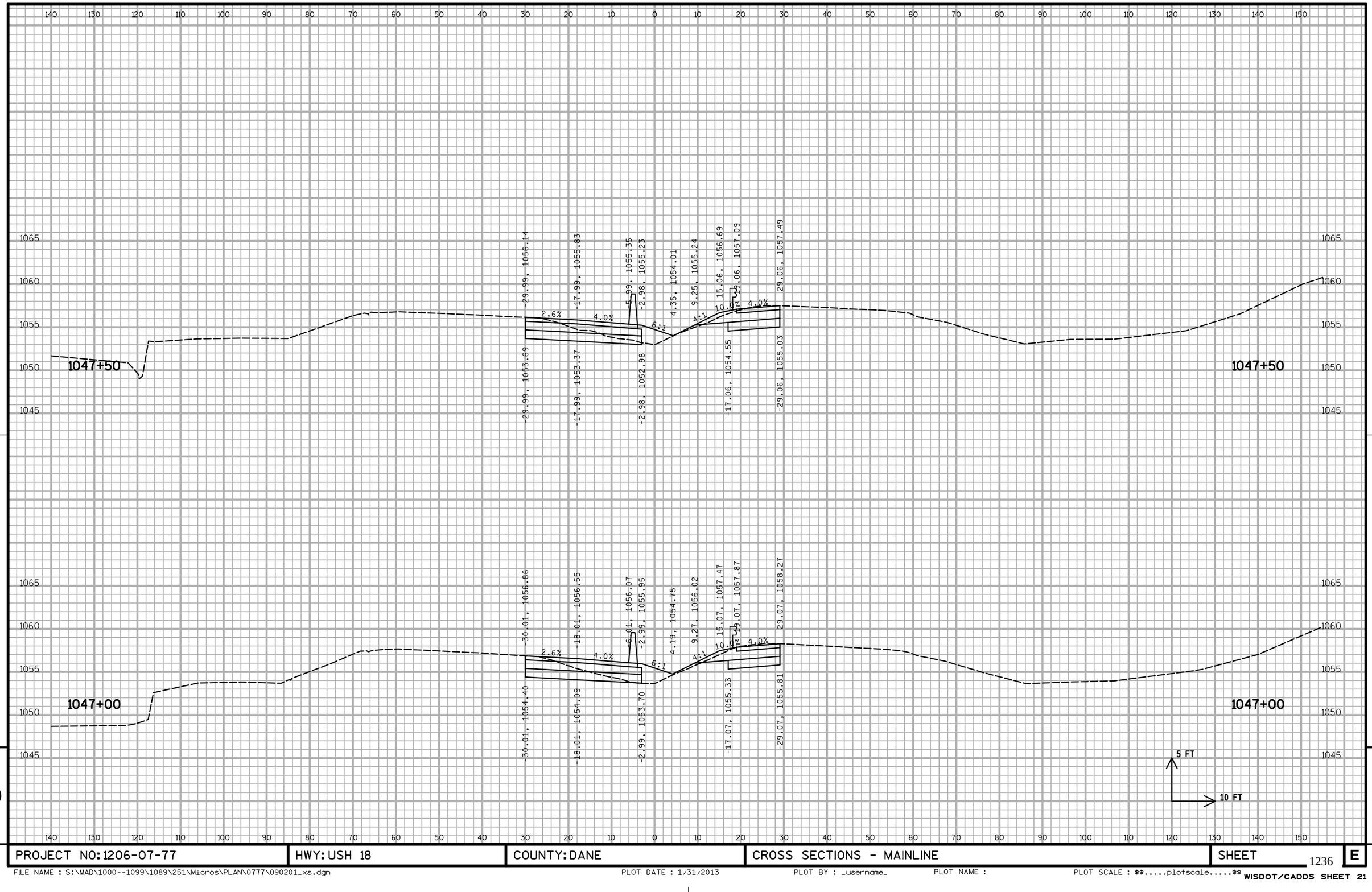
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1234	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1235	E

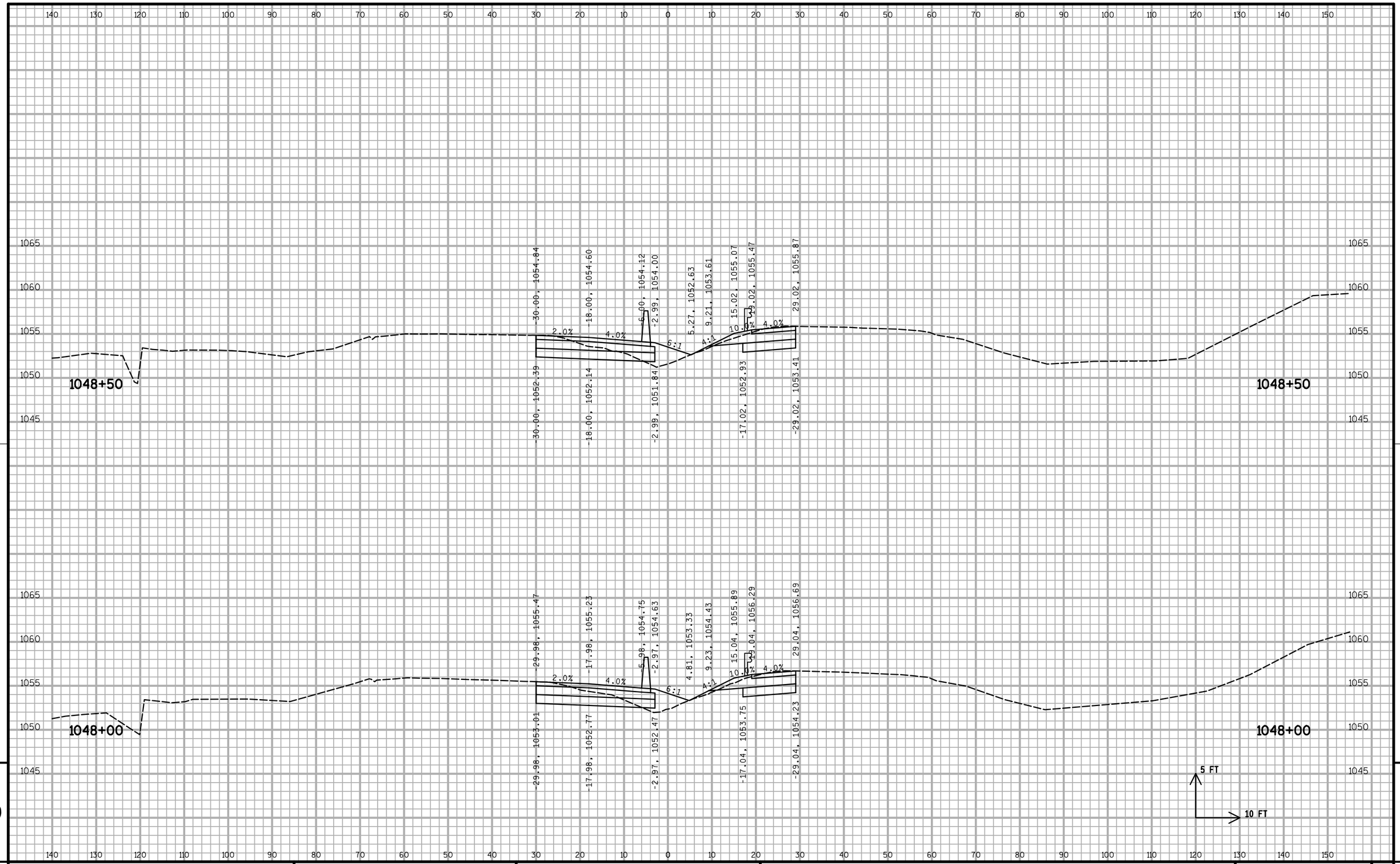
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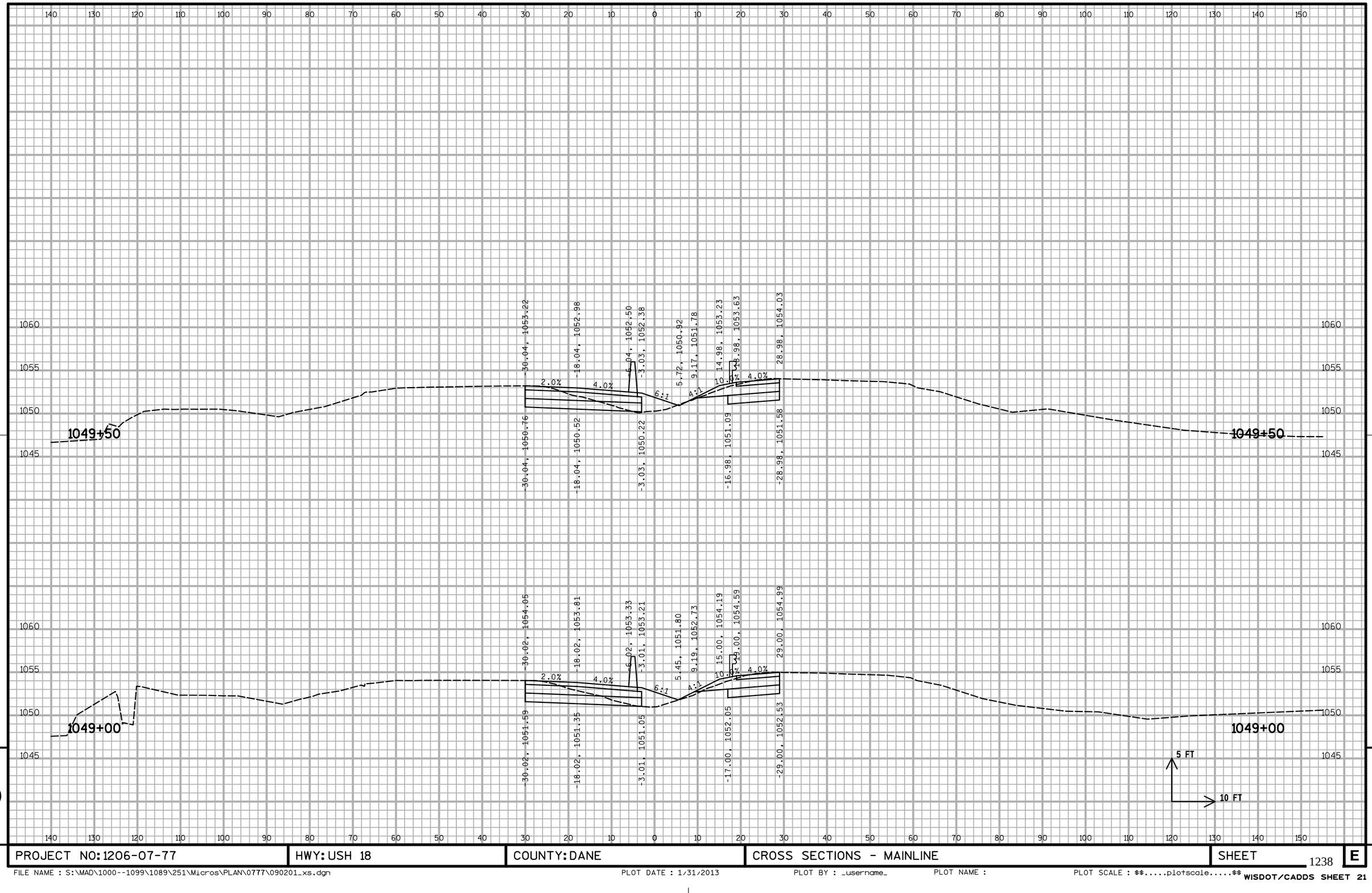
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1236	E



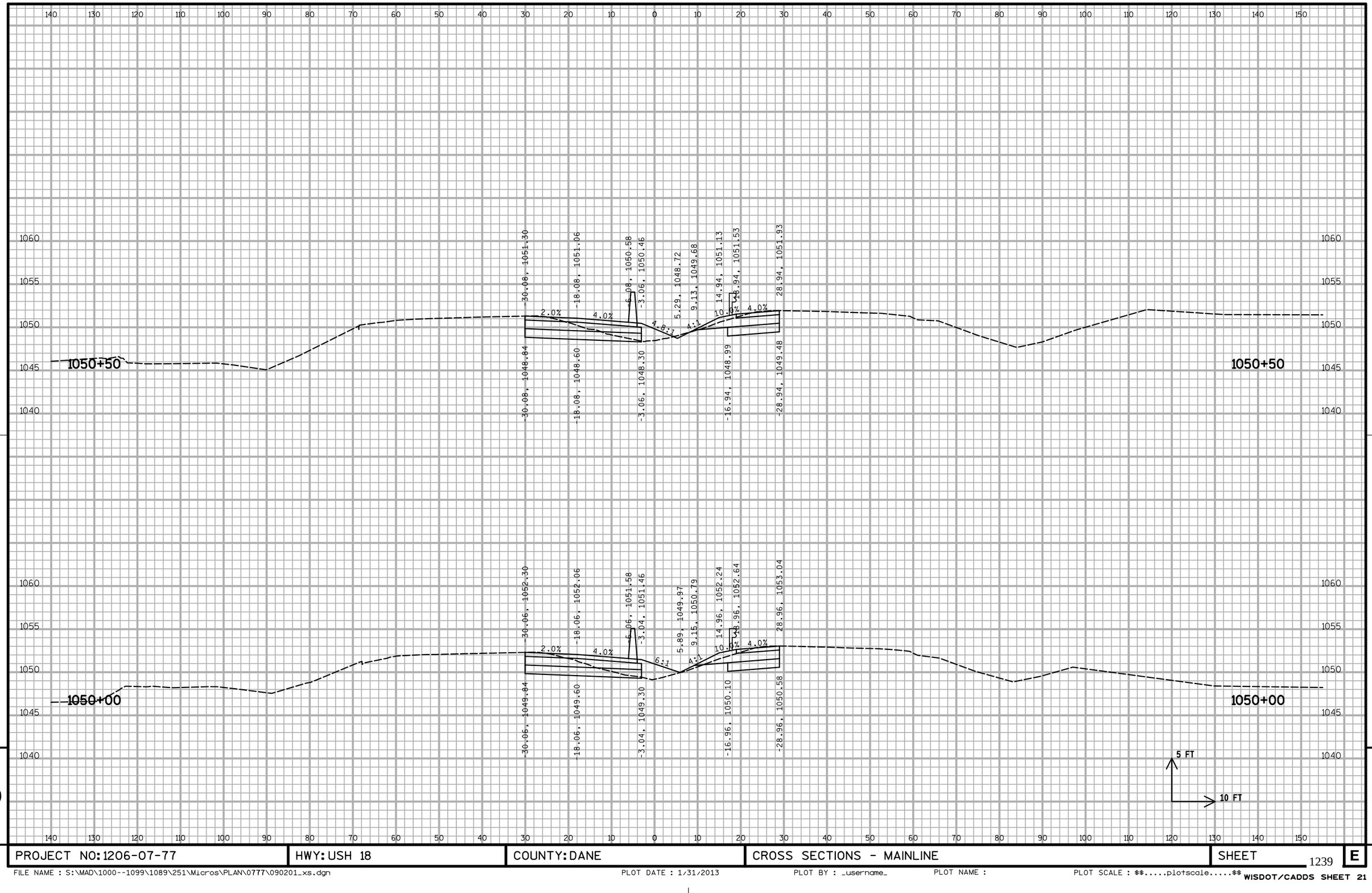
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1237	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET	E

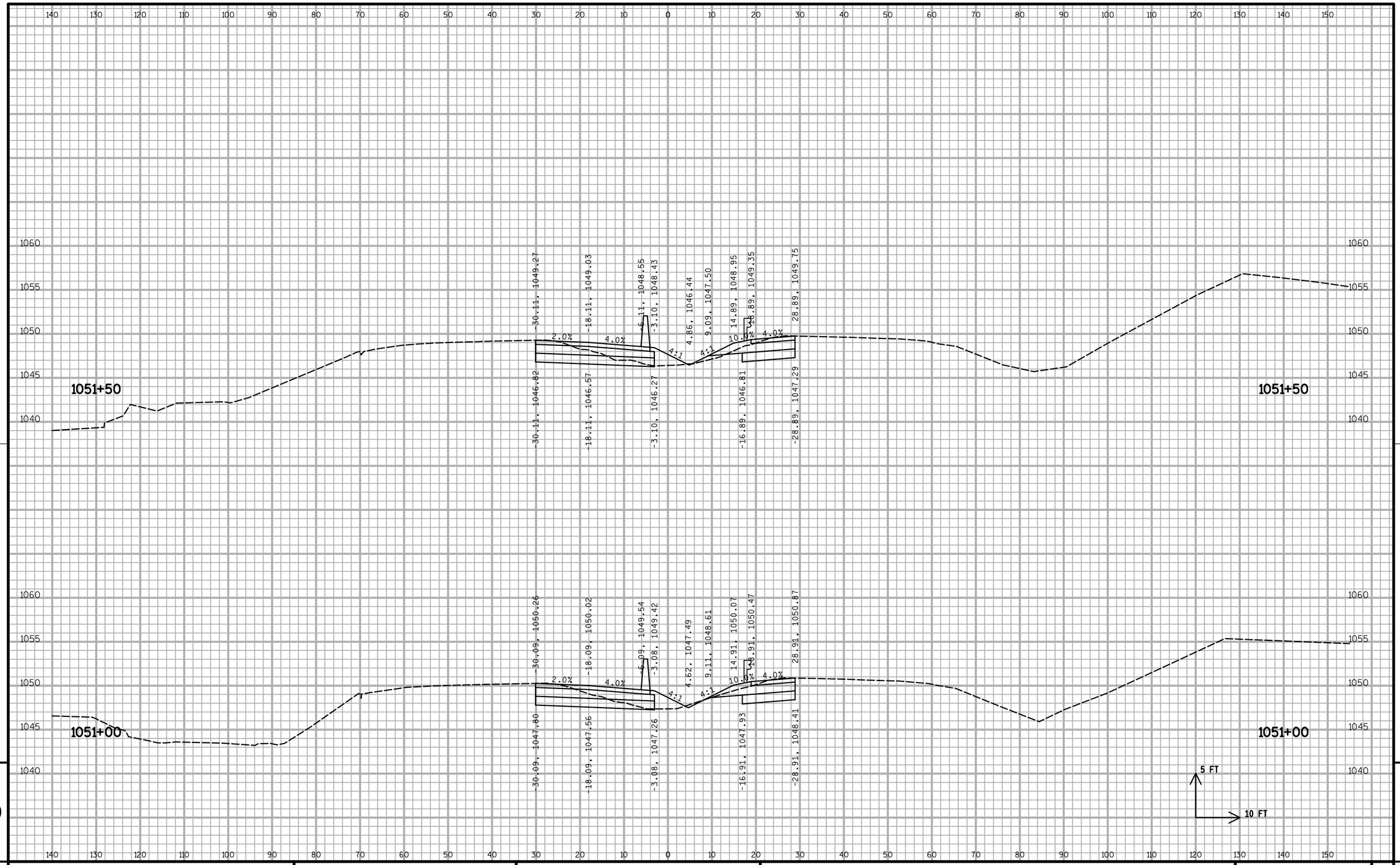
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1239	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

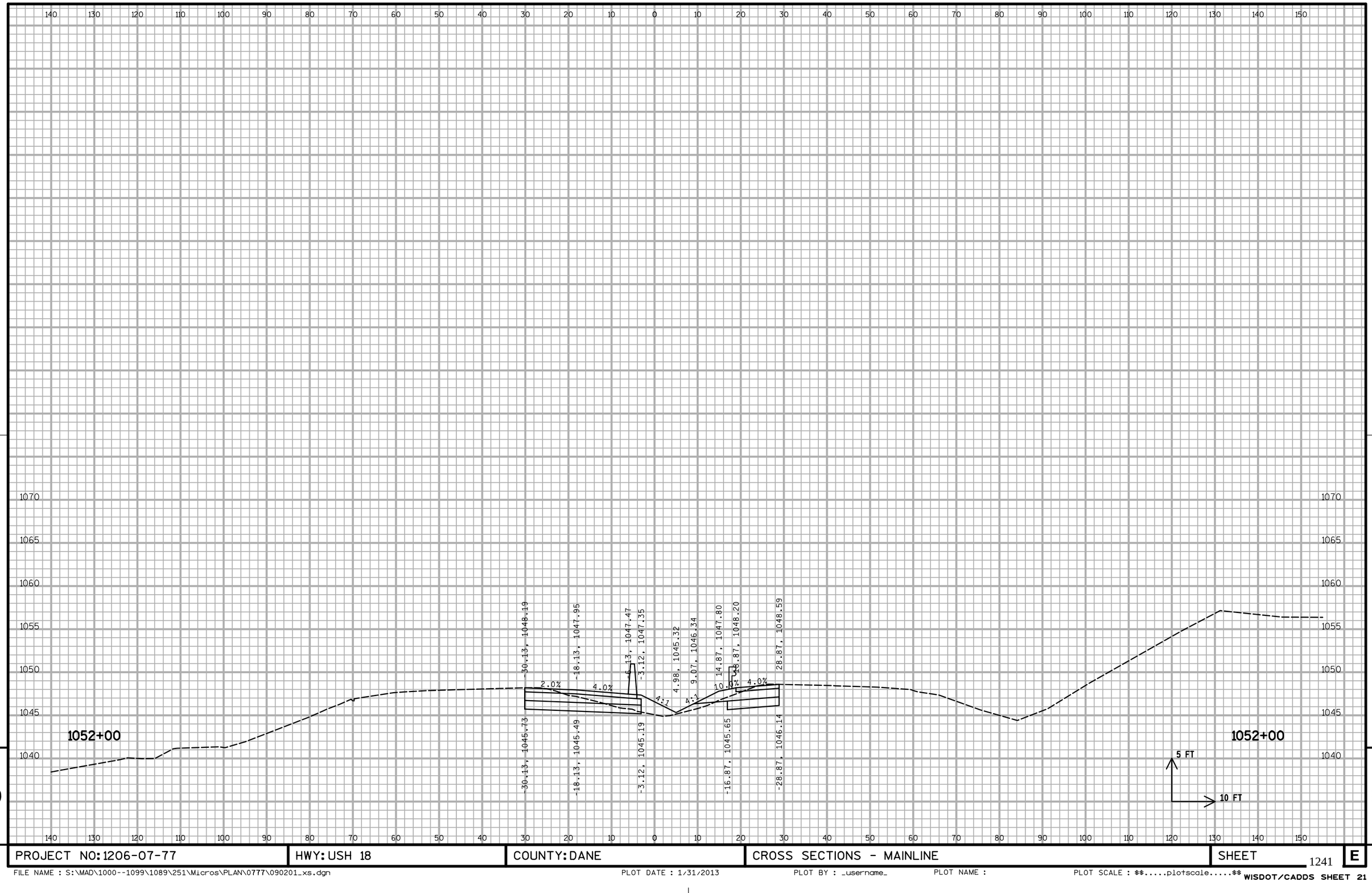


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1240	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

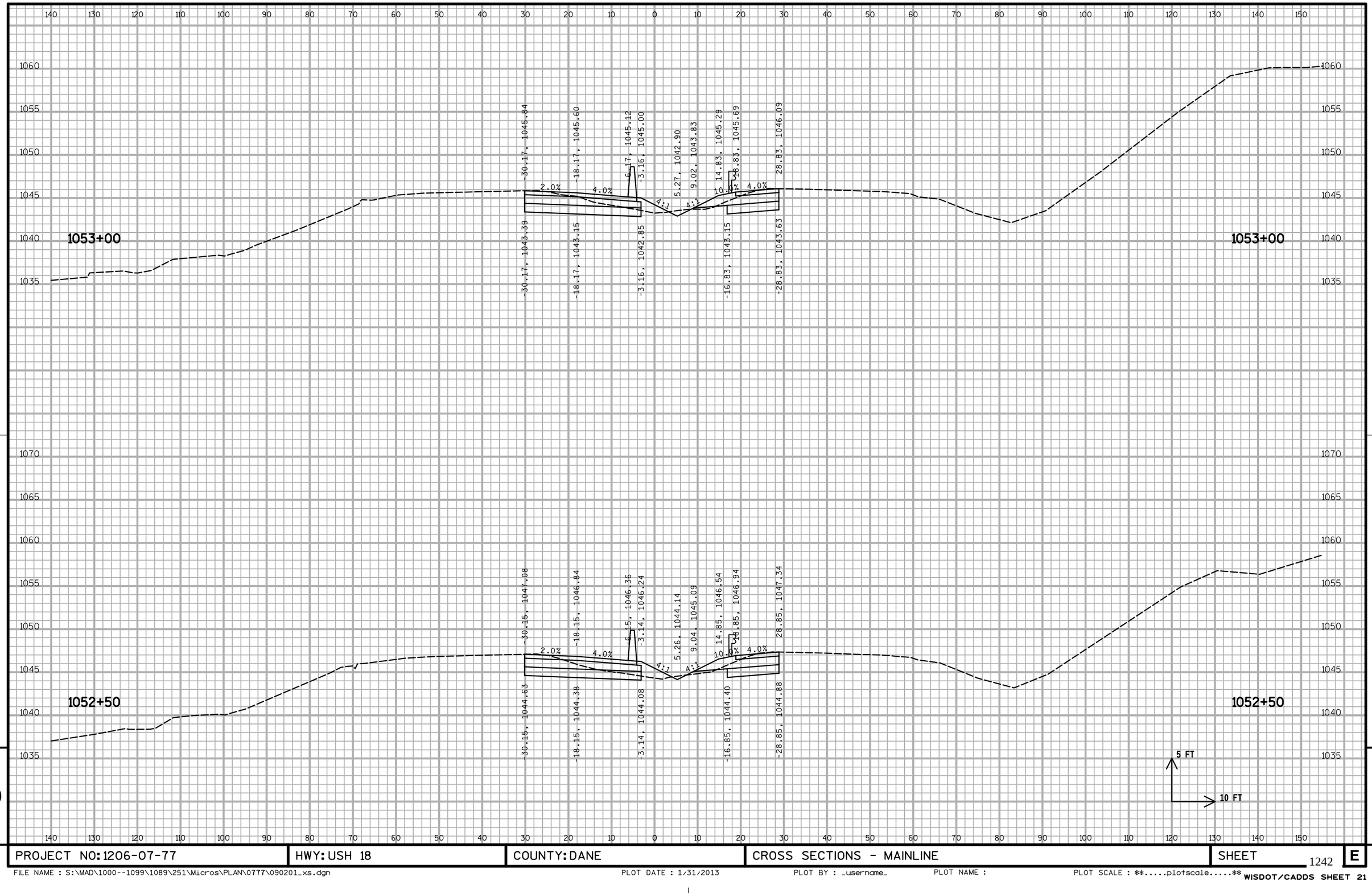


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1241	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

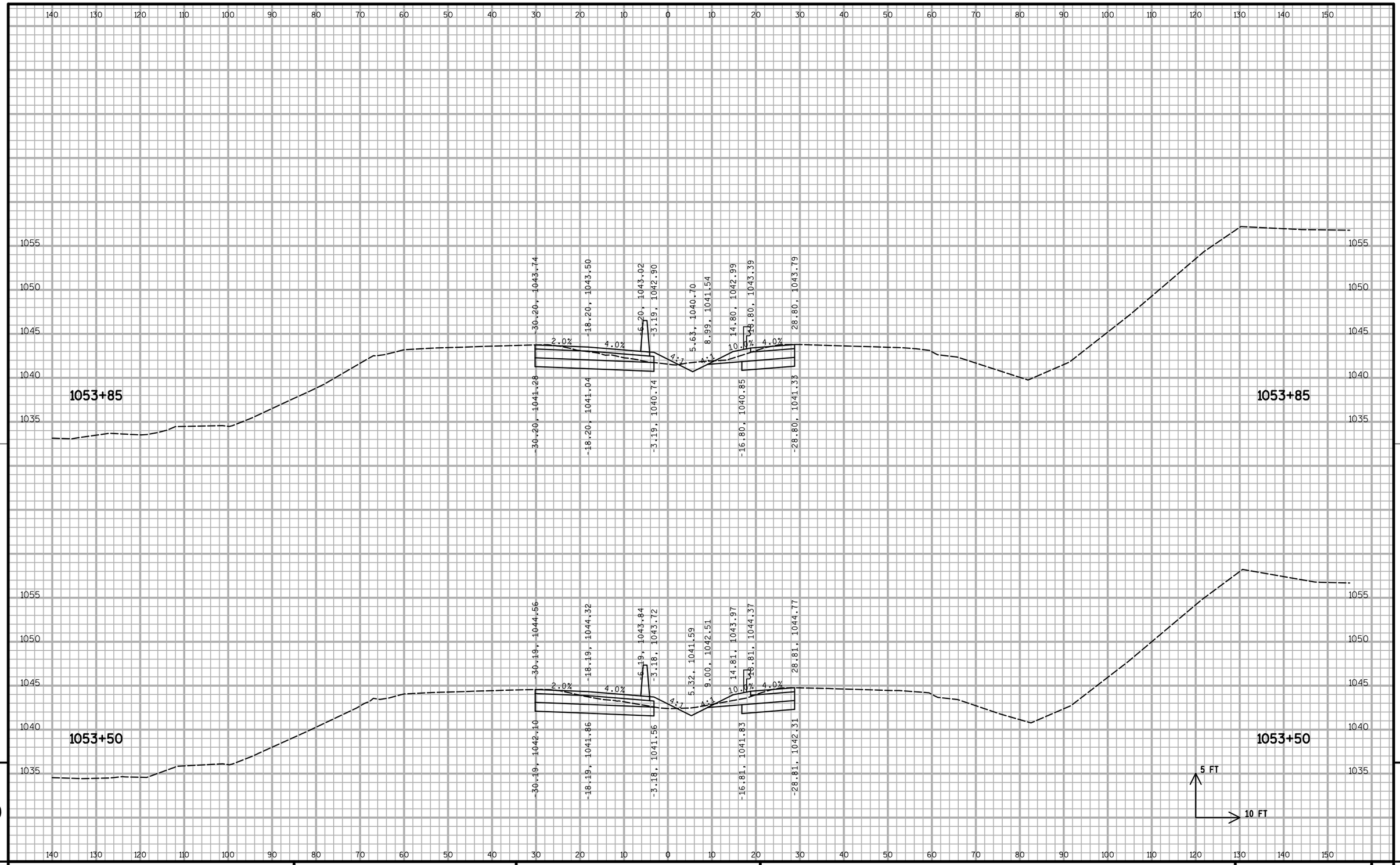


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1242	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



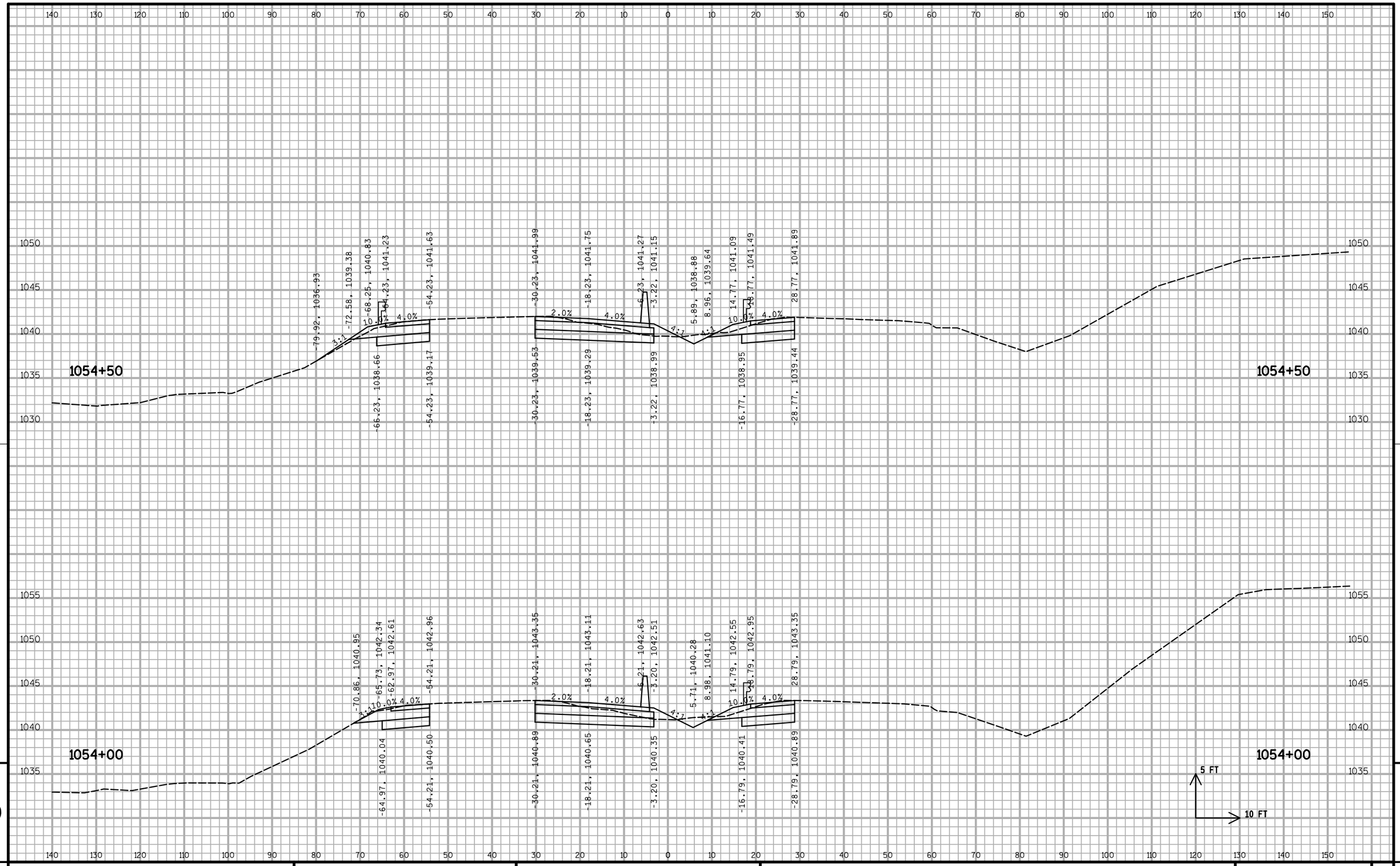
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1243	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

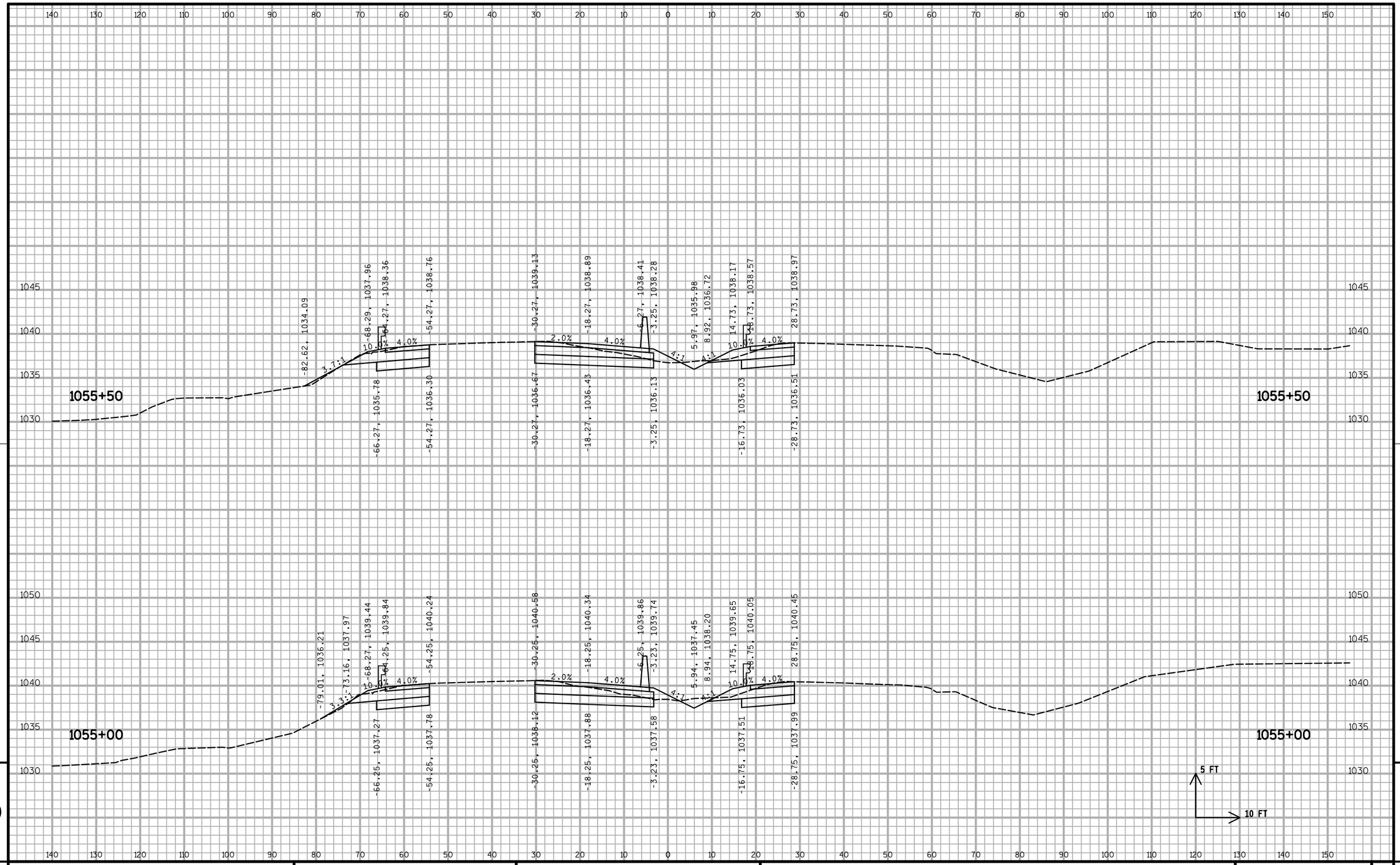


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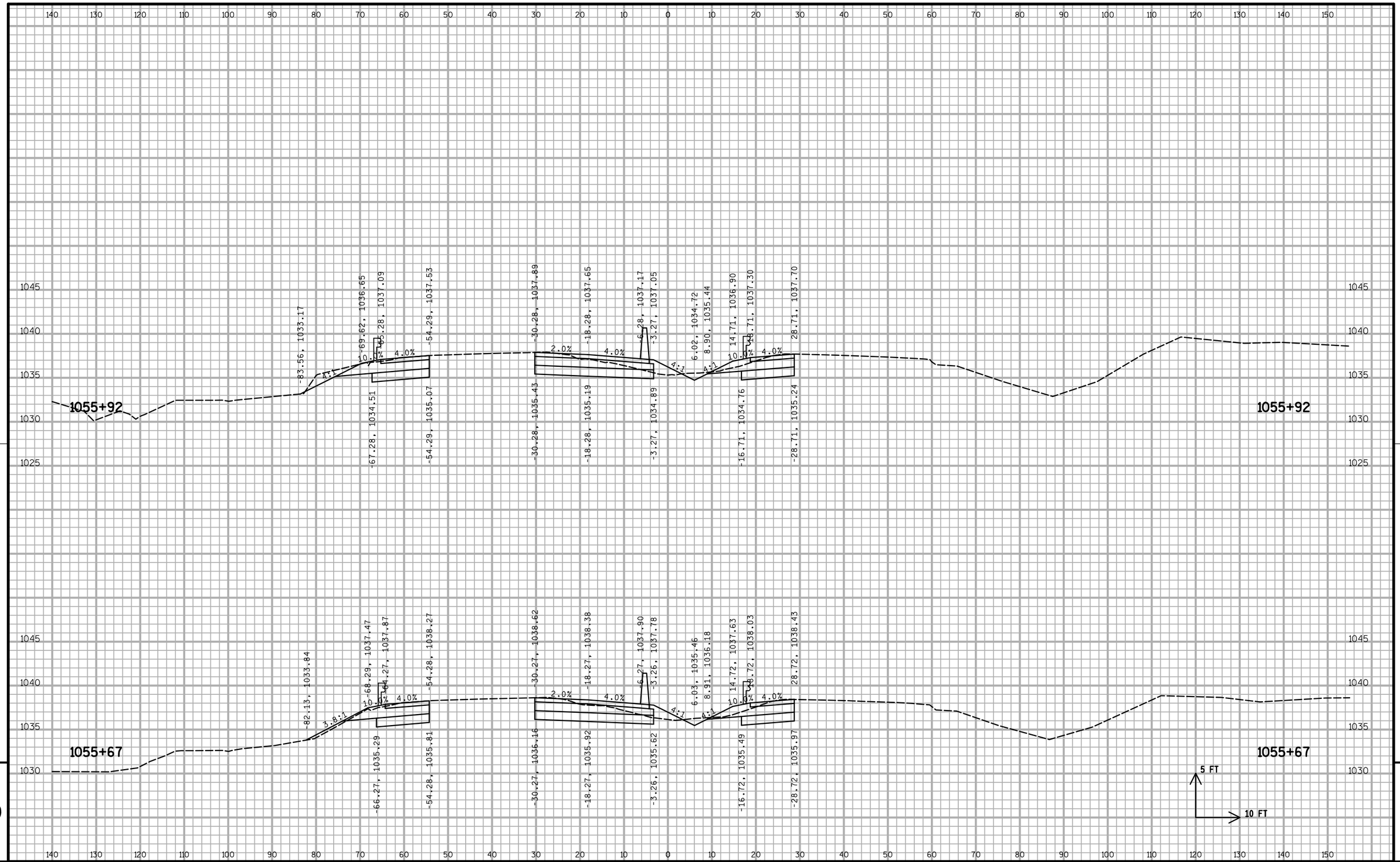
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1244	E

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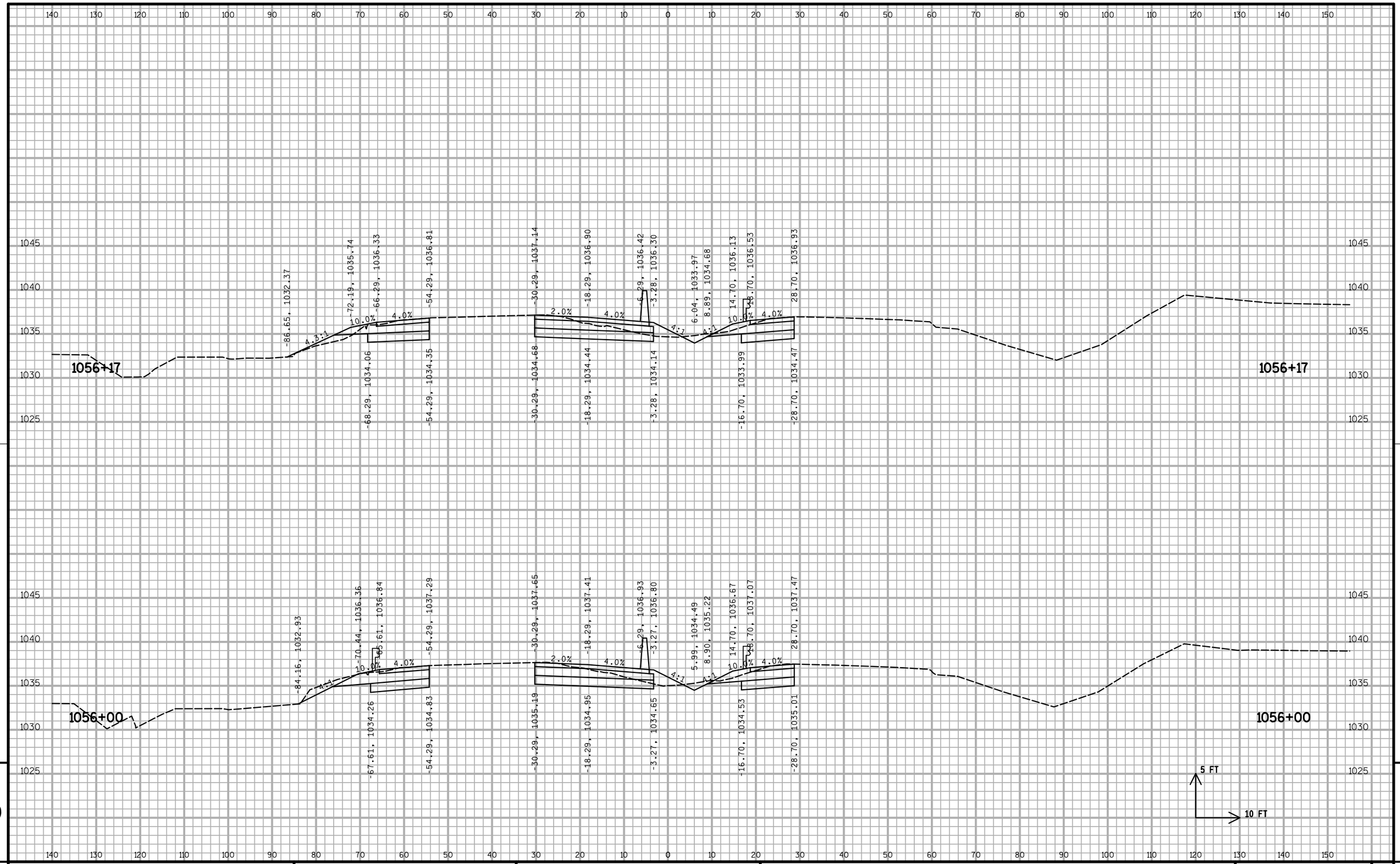


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1245	E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1246 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

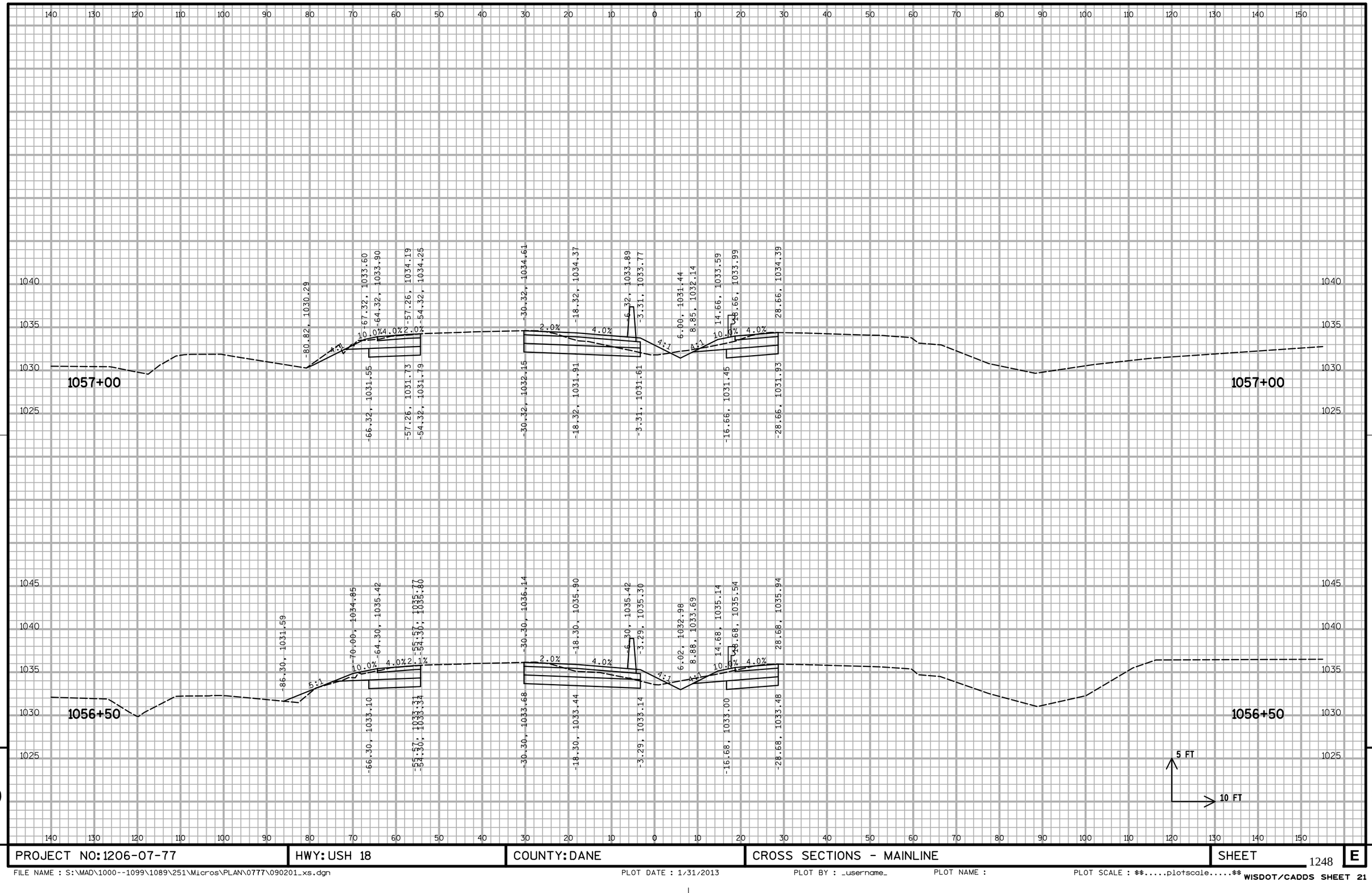


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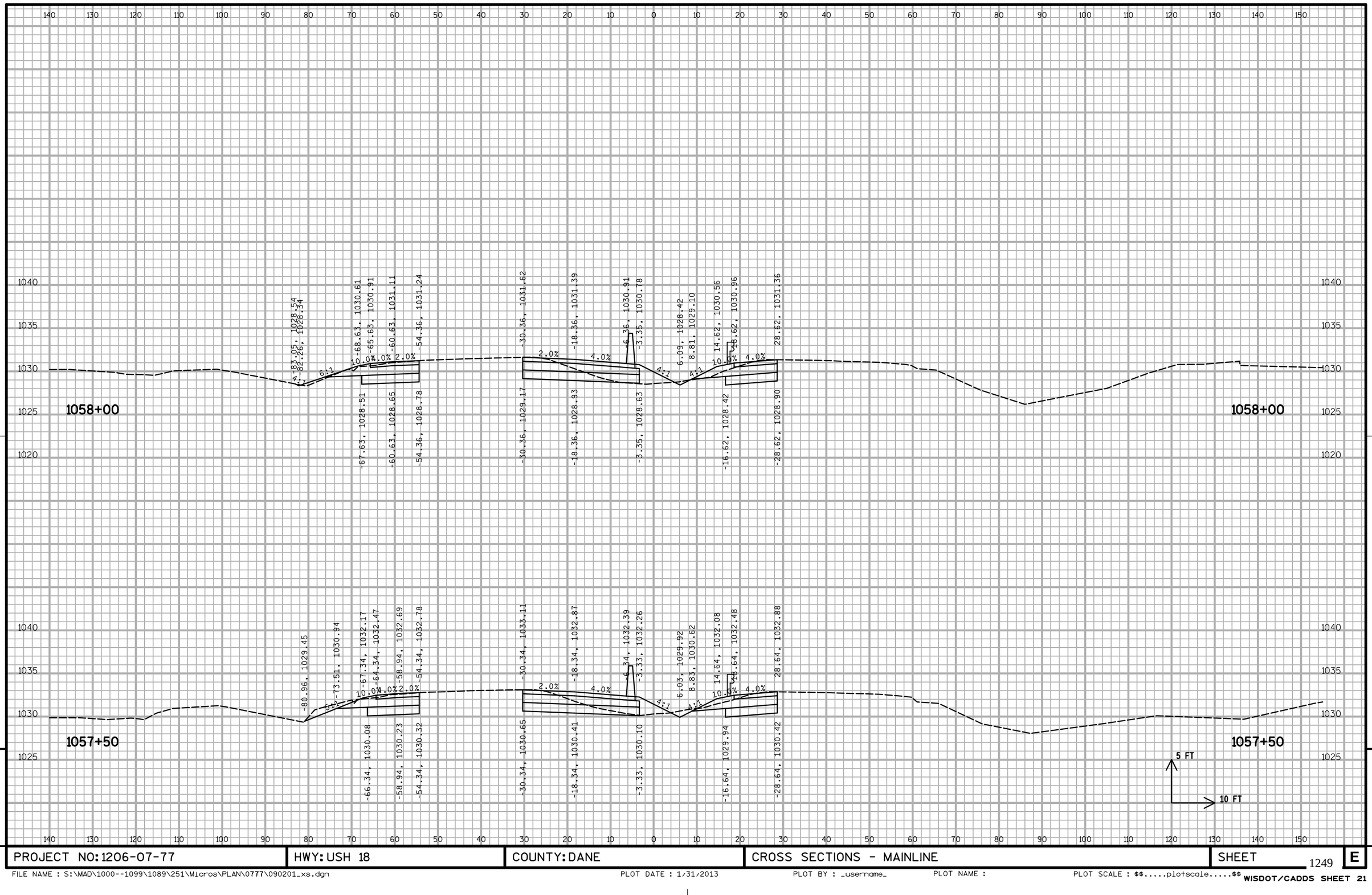
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1247	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

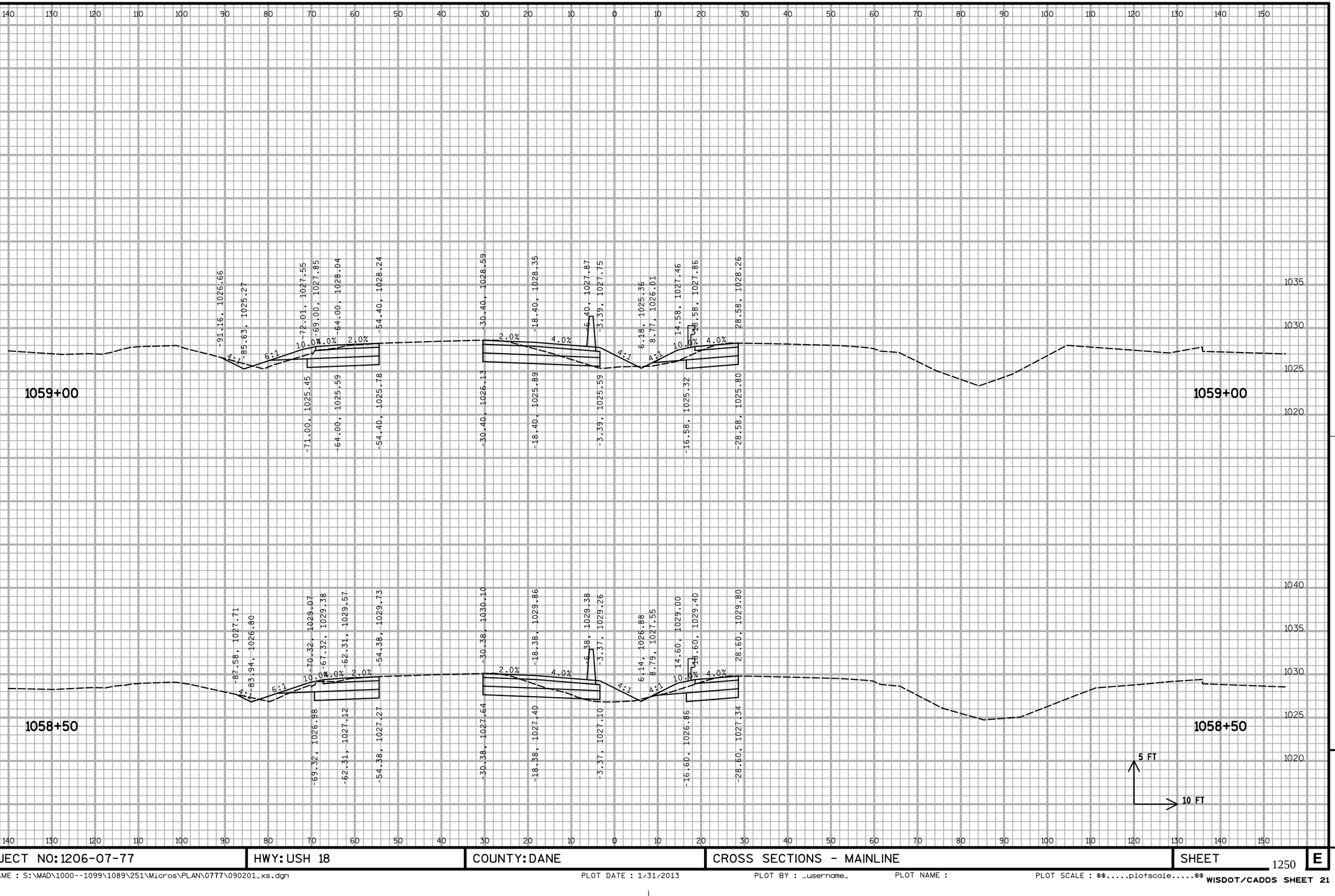


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1248	E



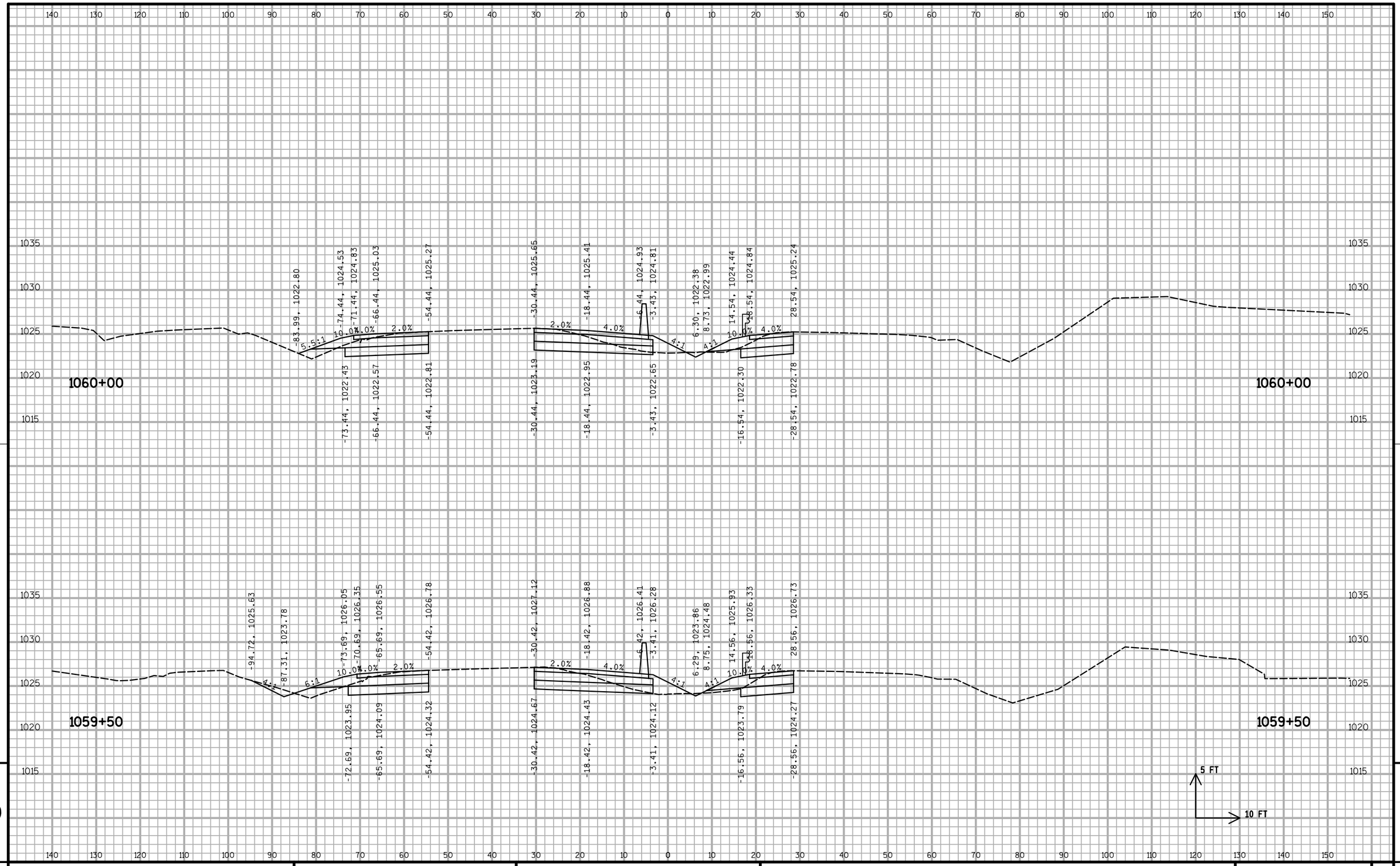
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1249	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1250	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

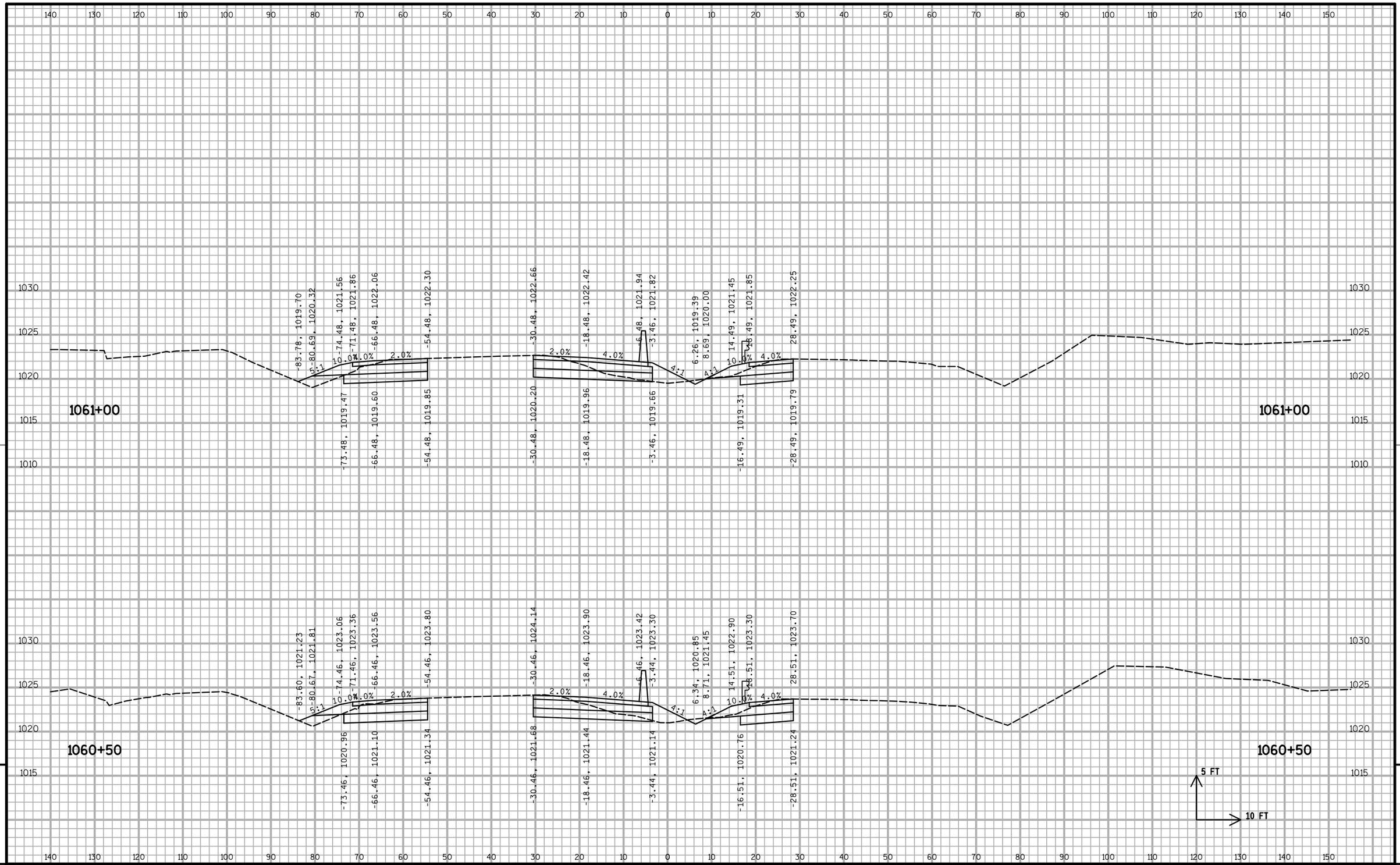


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1251	E

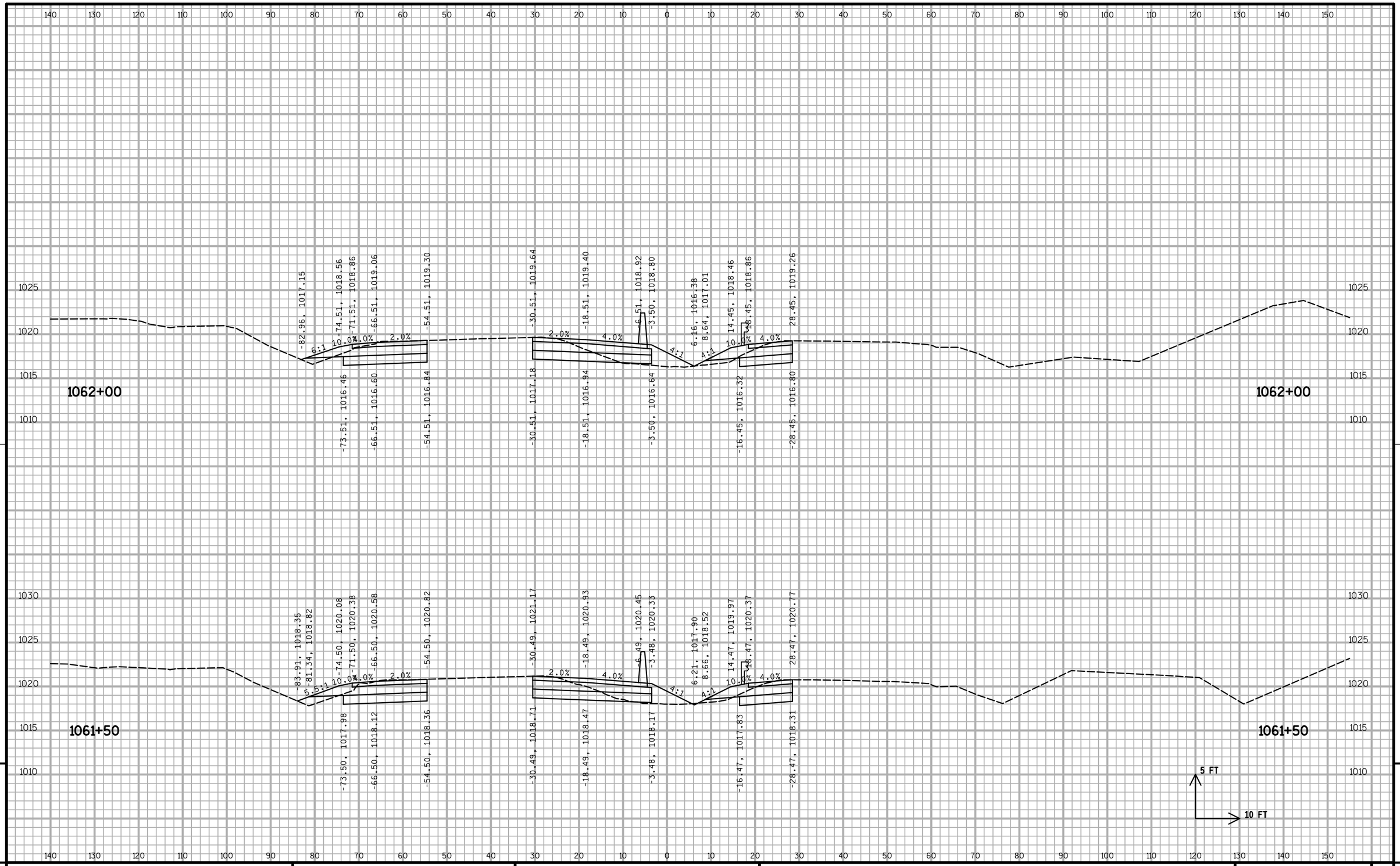
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1252	E

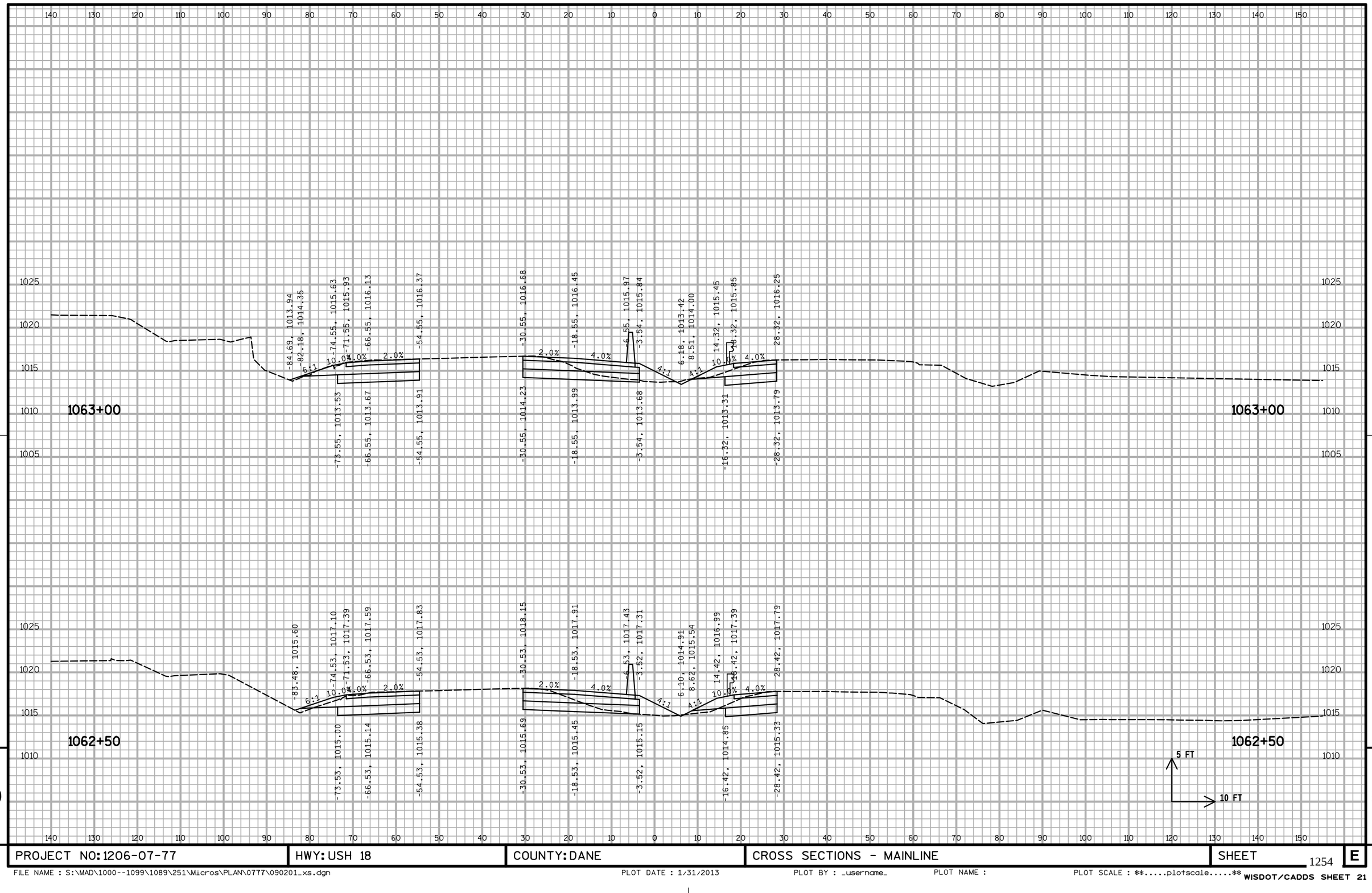
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WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1253 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

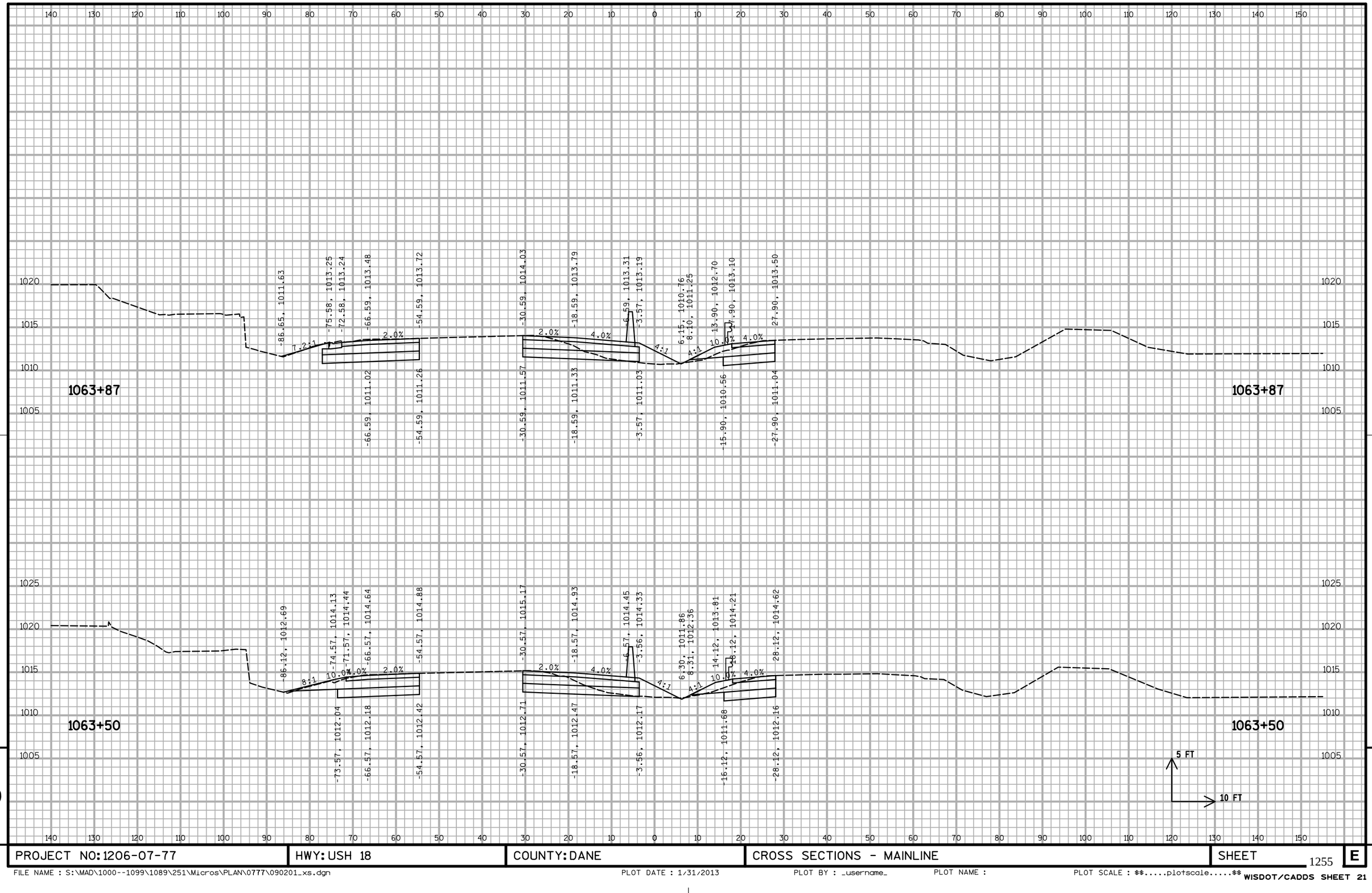


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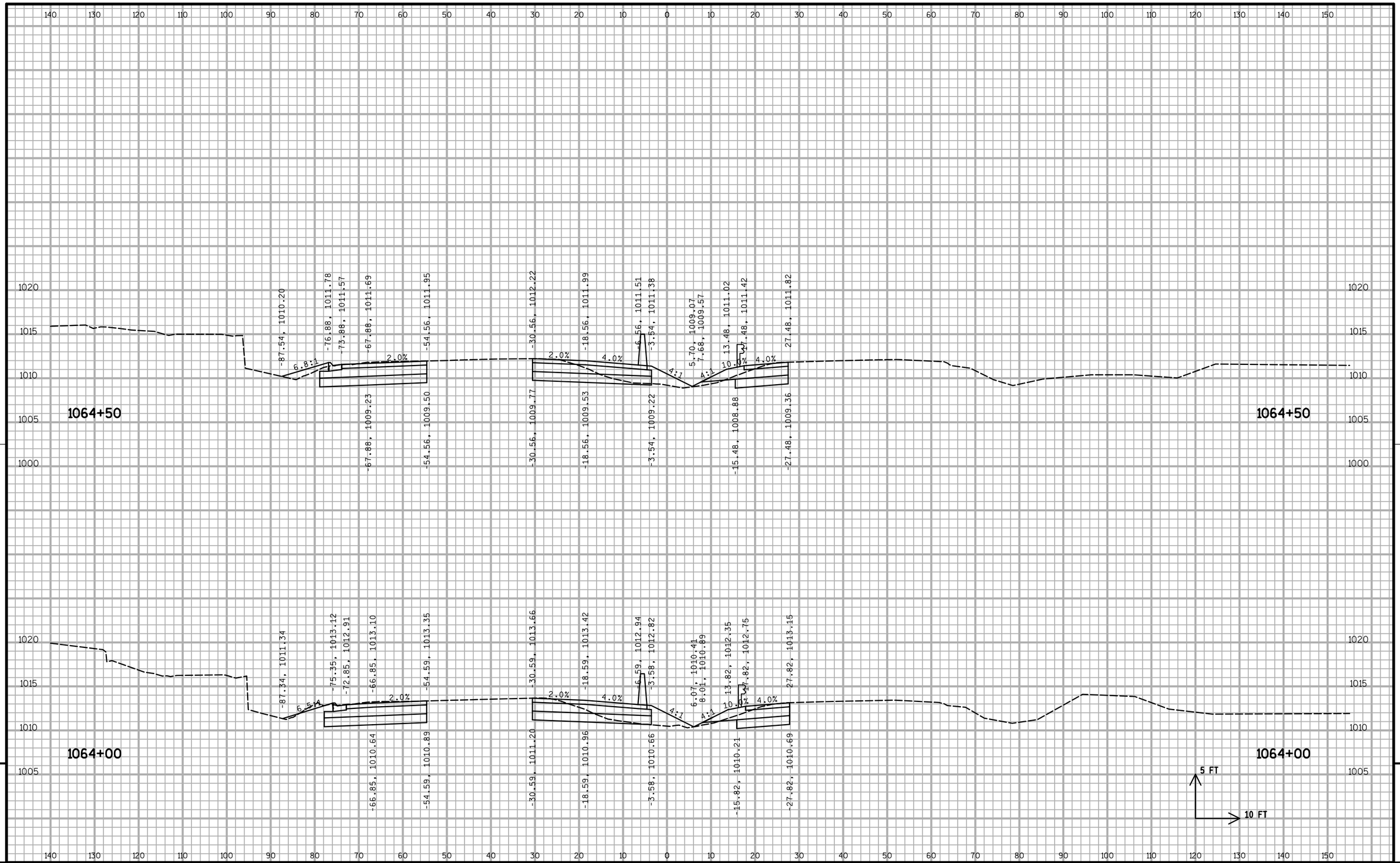
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1254	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1255	E

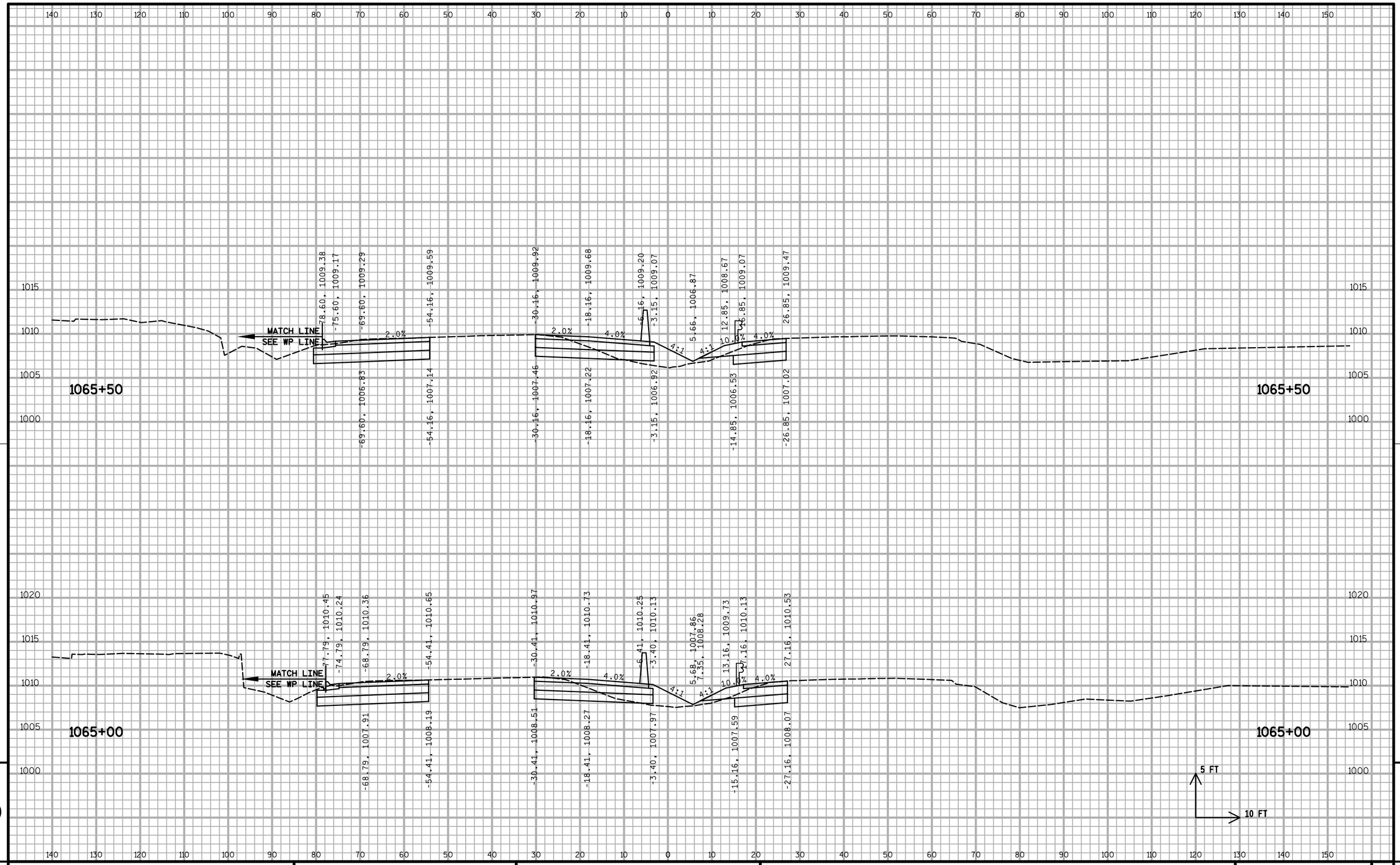
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1256	E

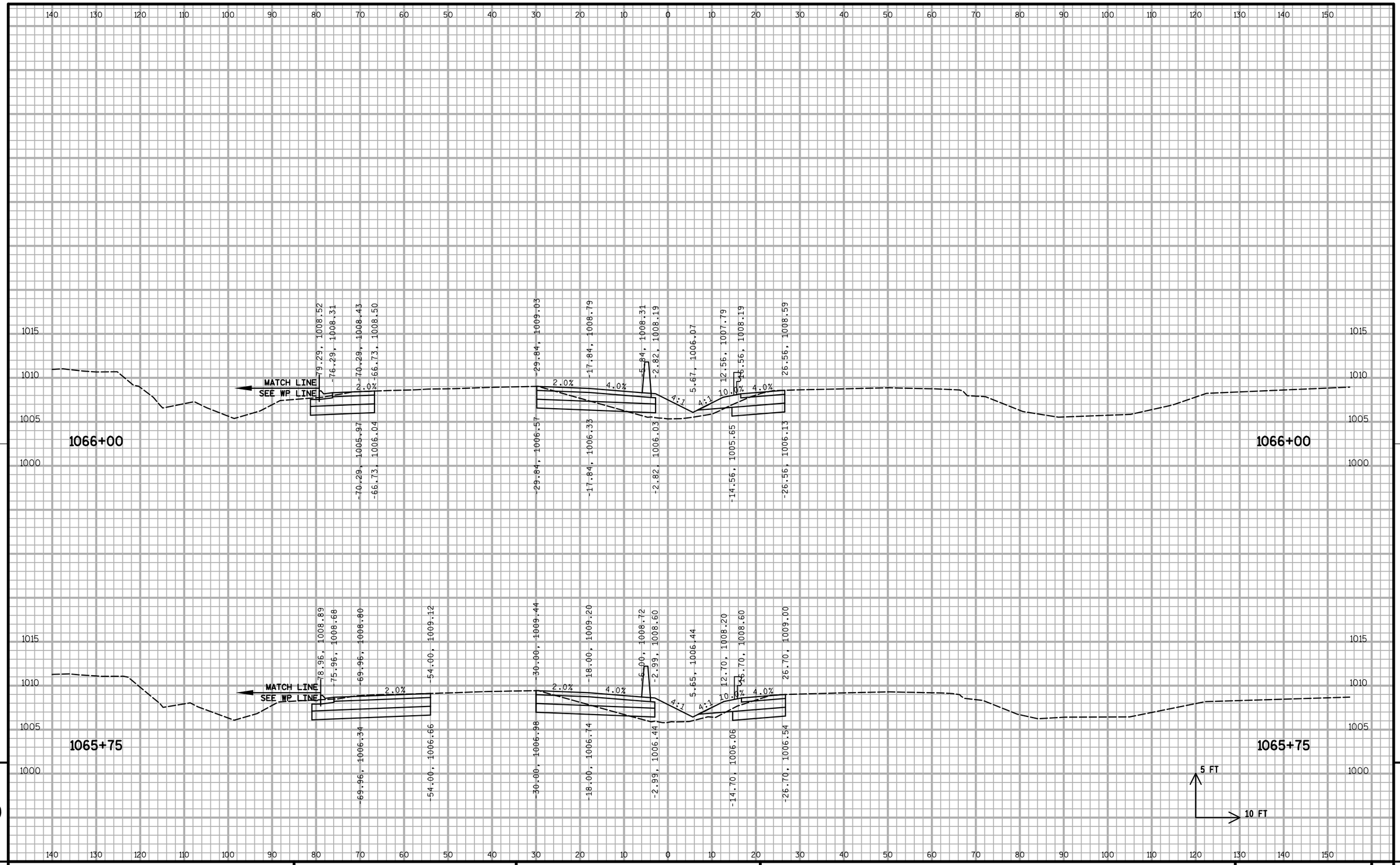
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WISDOT/CADDS SHEET 21



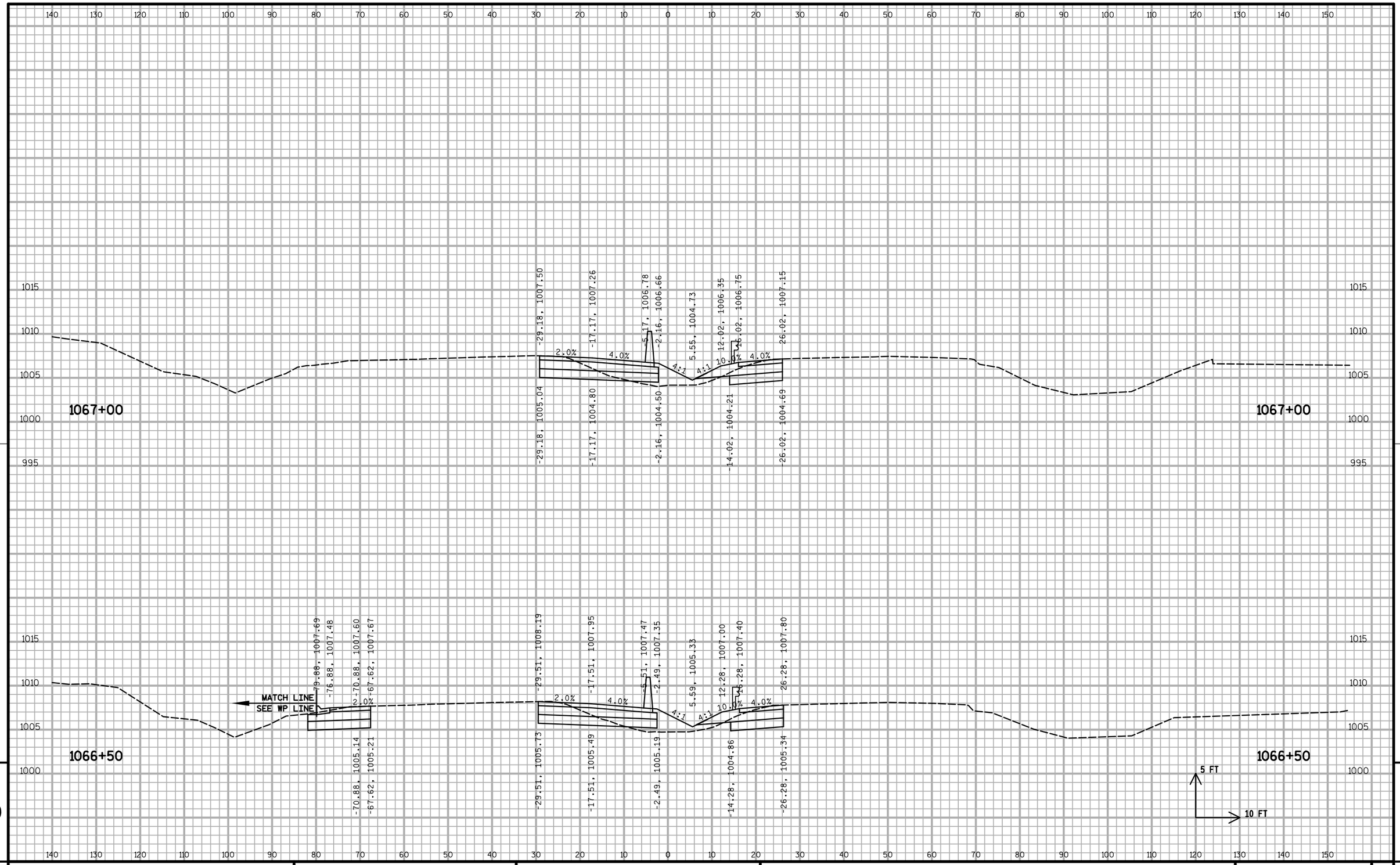
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1257	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1258	E

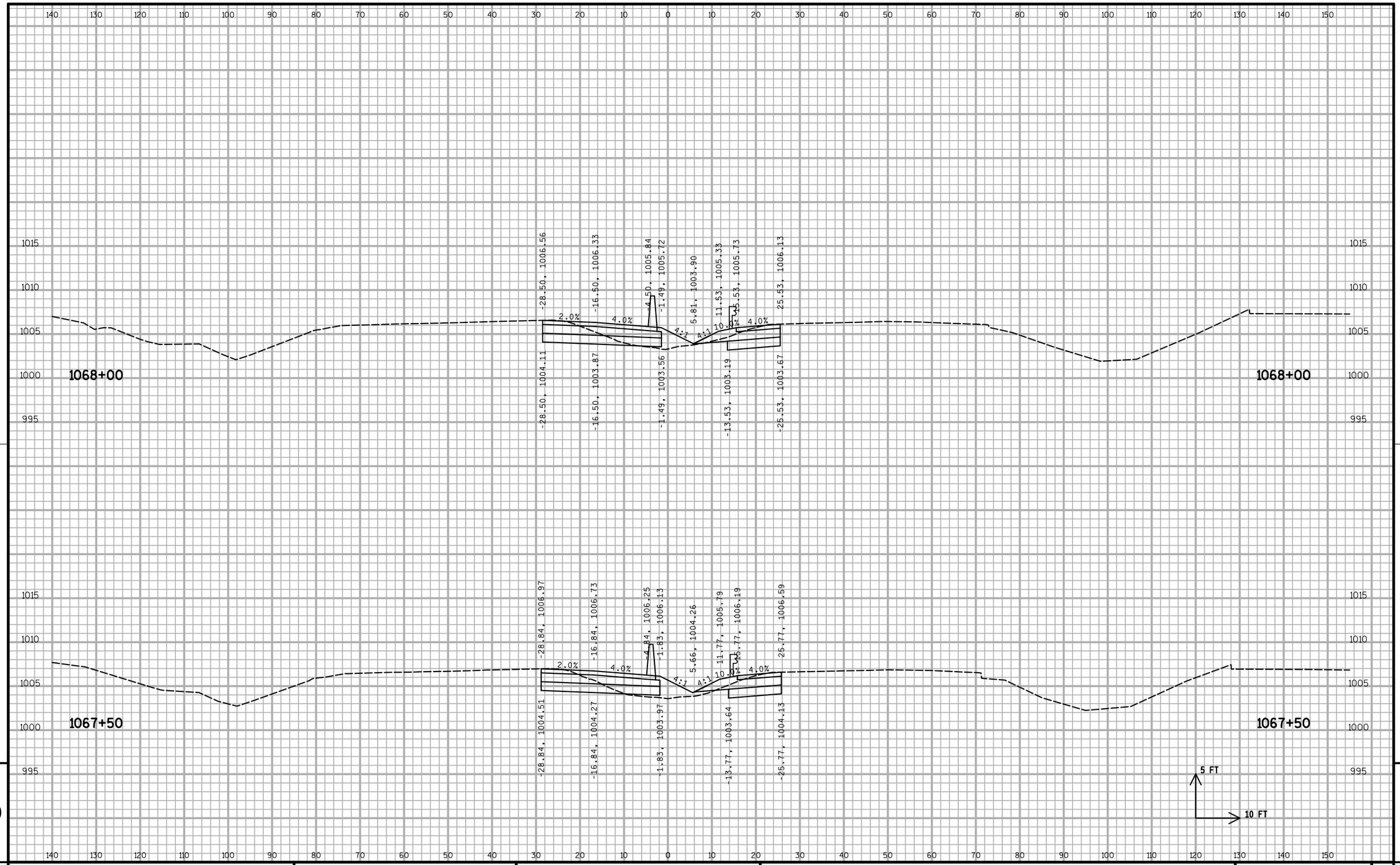
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1259	E

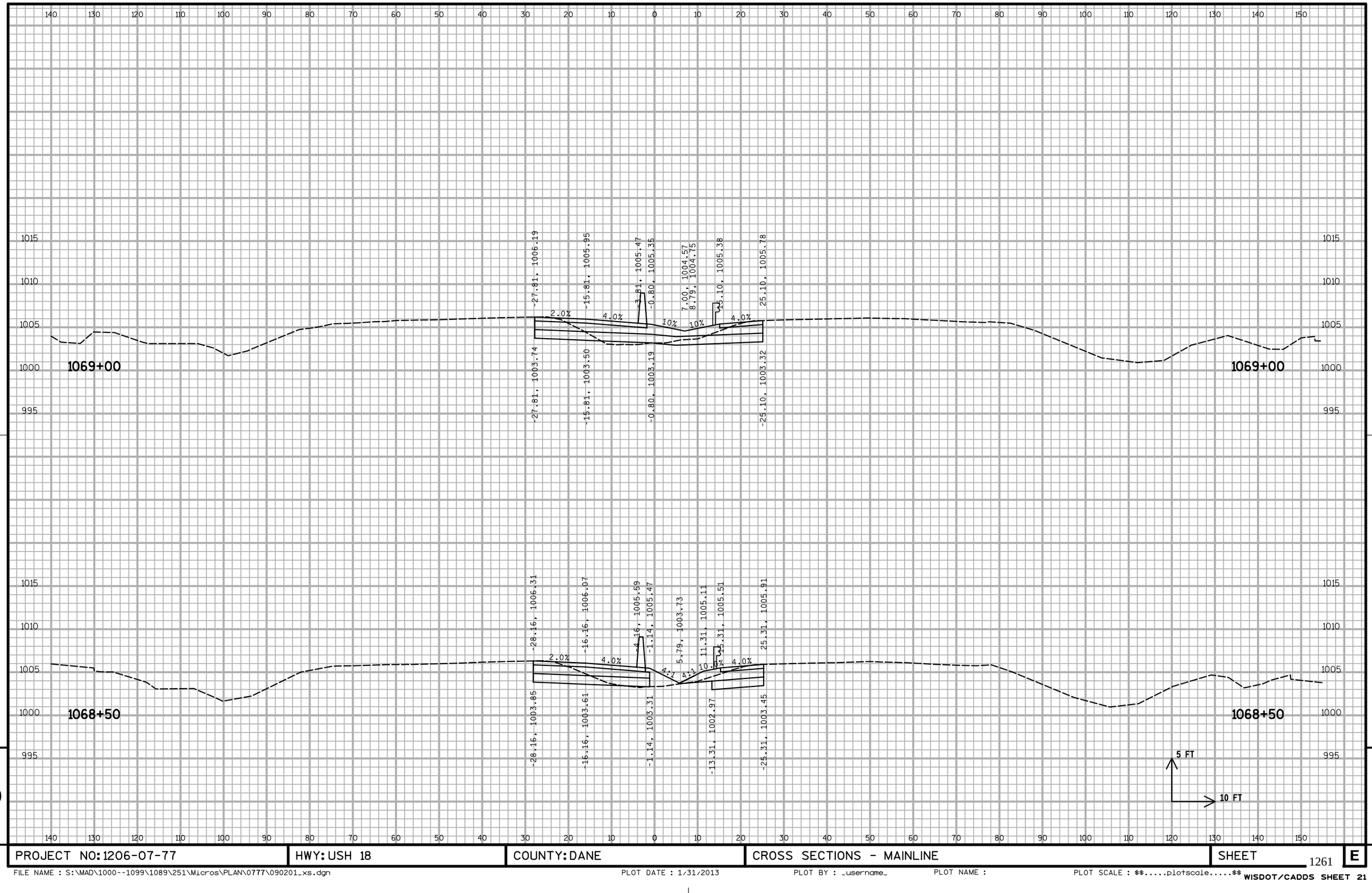
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WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1260	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



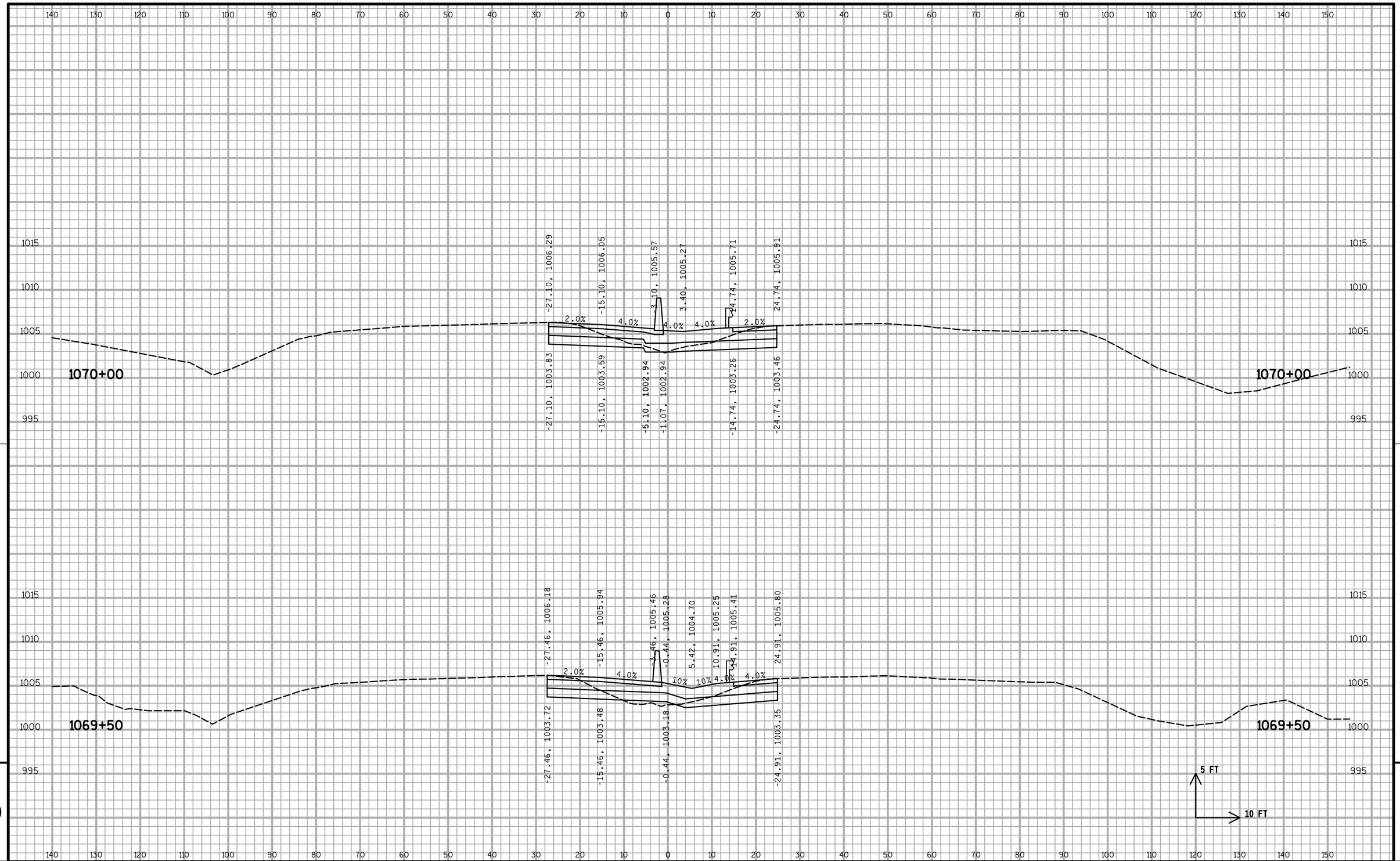
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1261	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

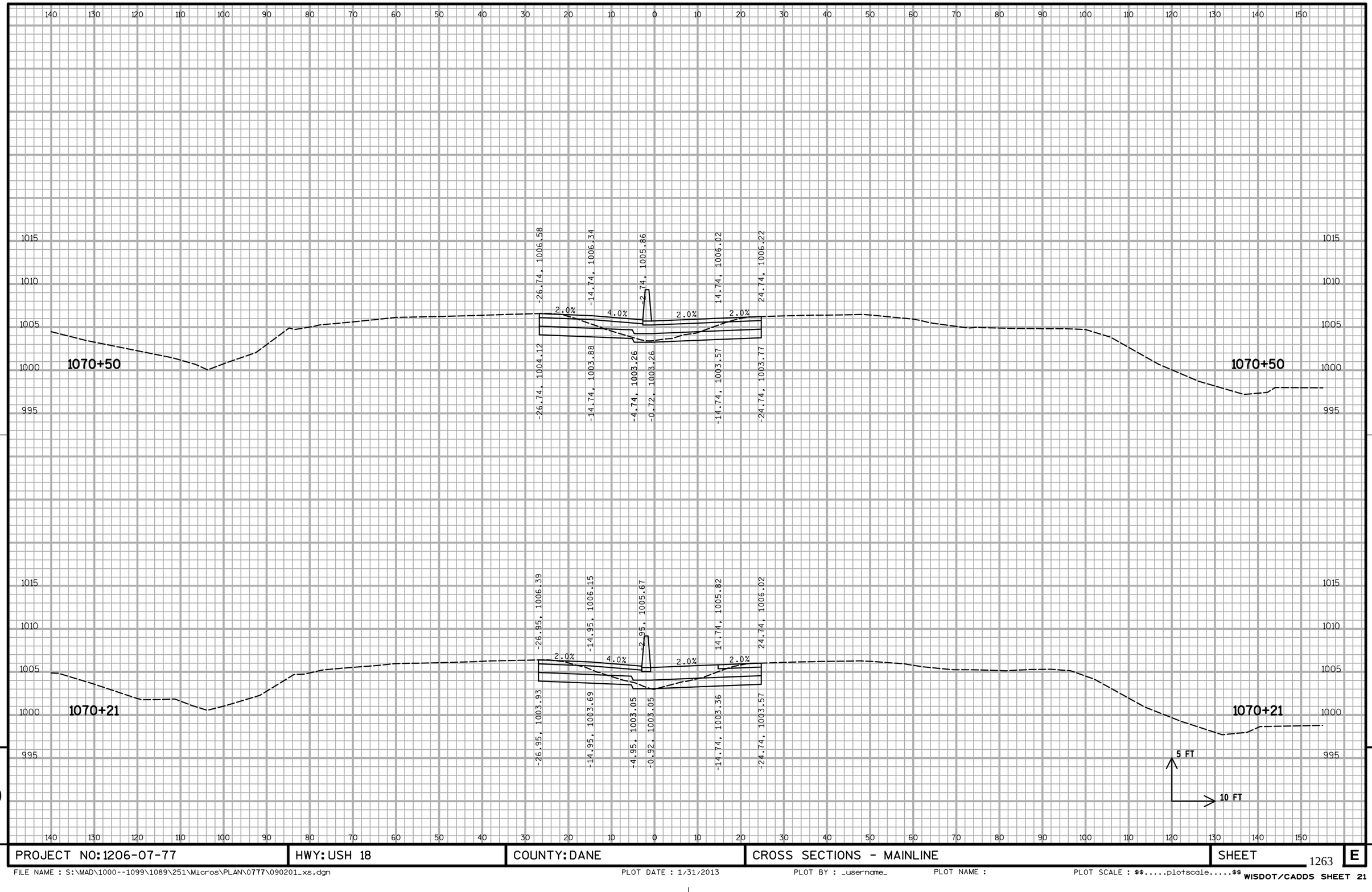
WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1262 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

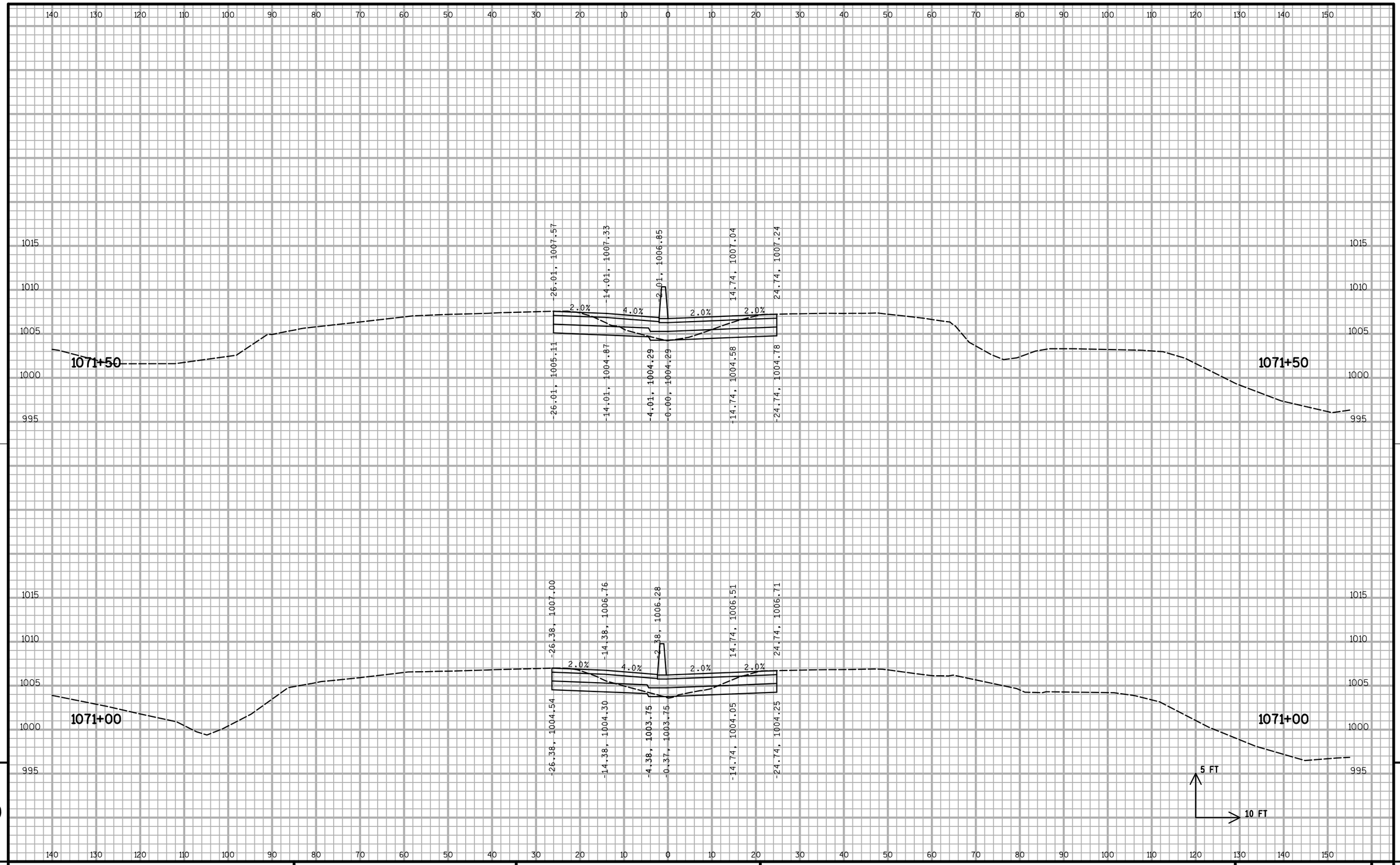


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1263	E

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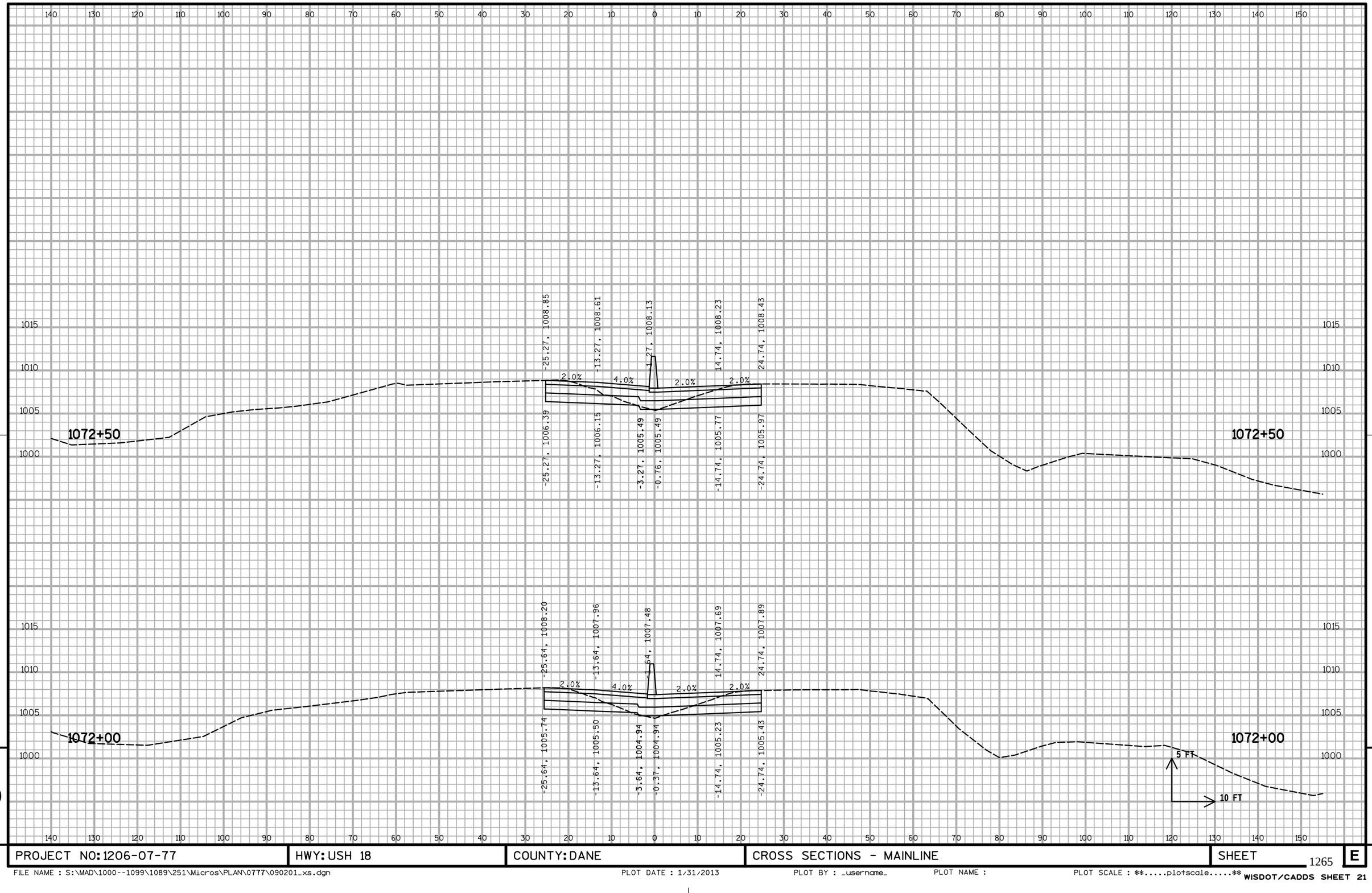


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1264	E

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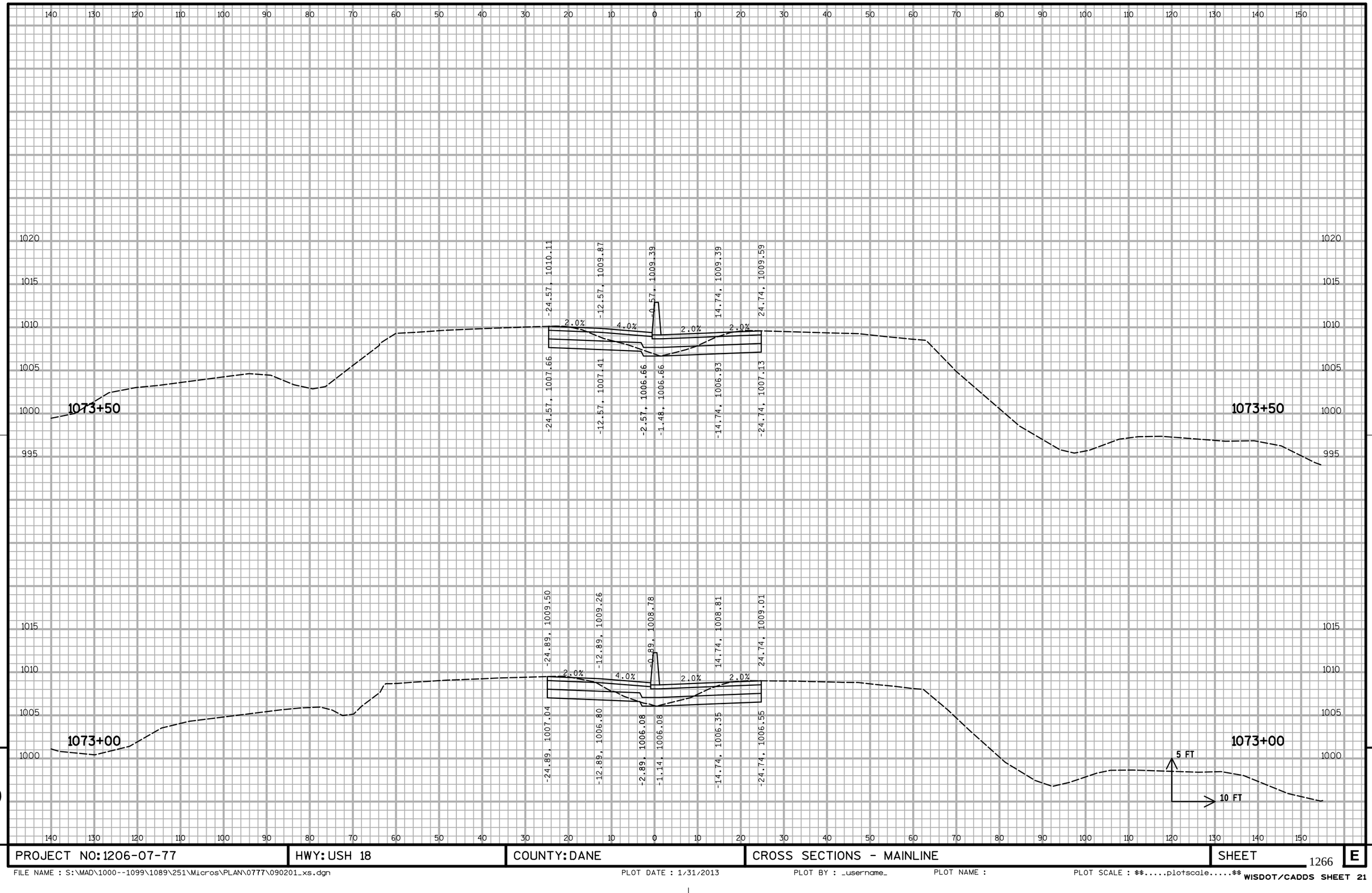


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1265	E

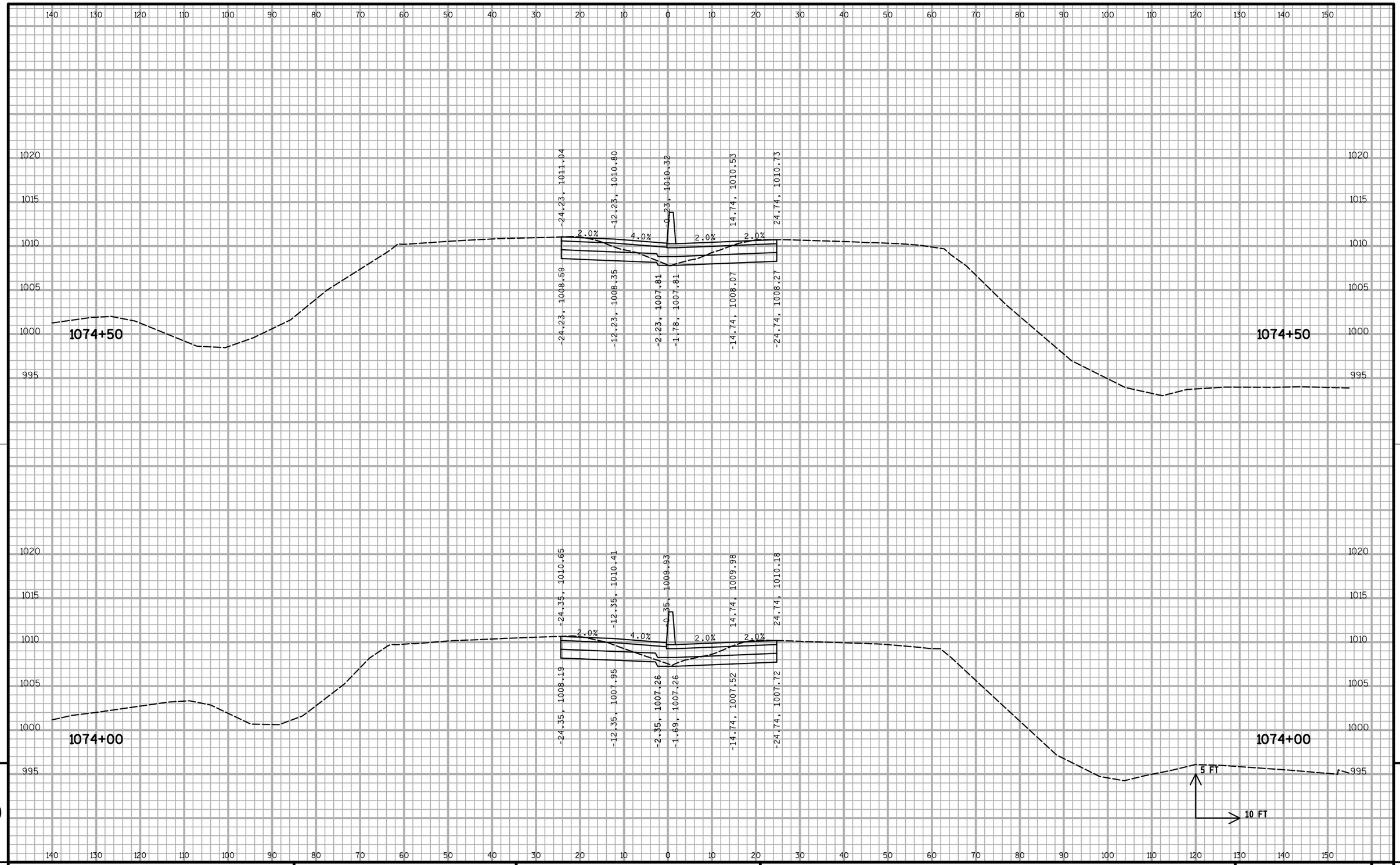
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1266	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

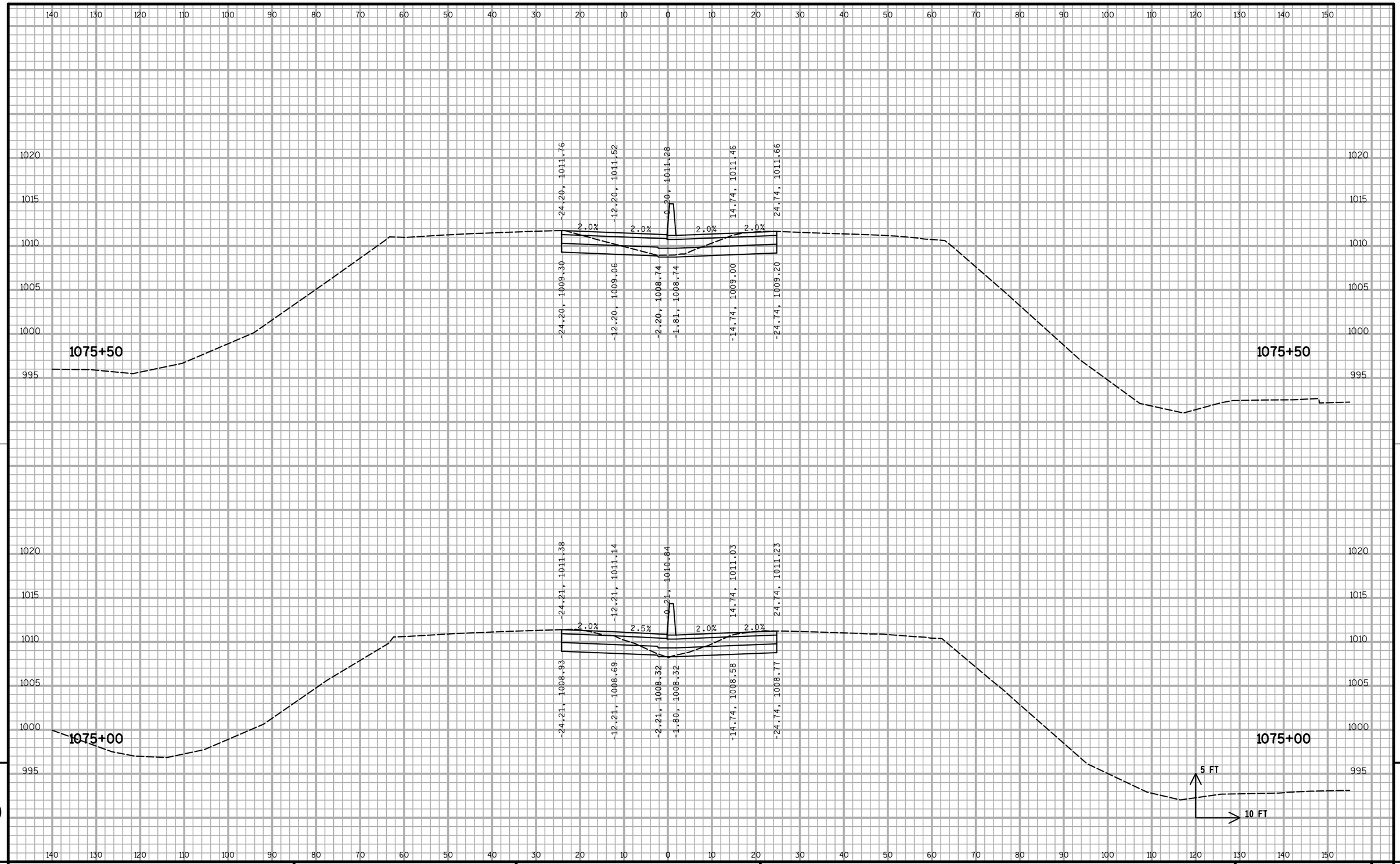


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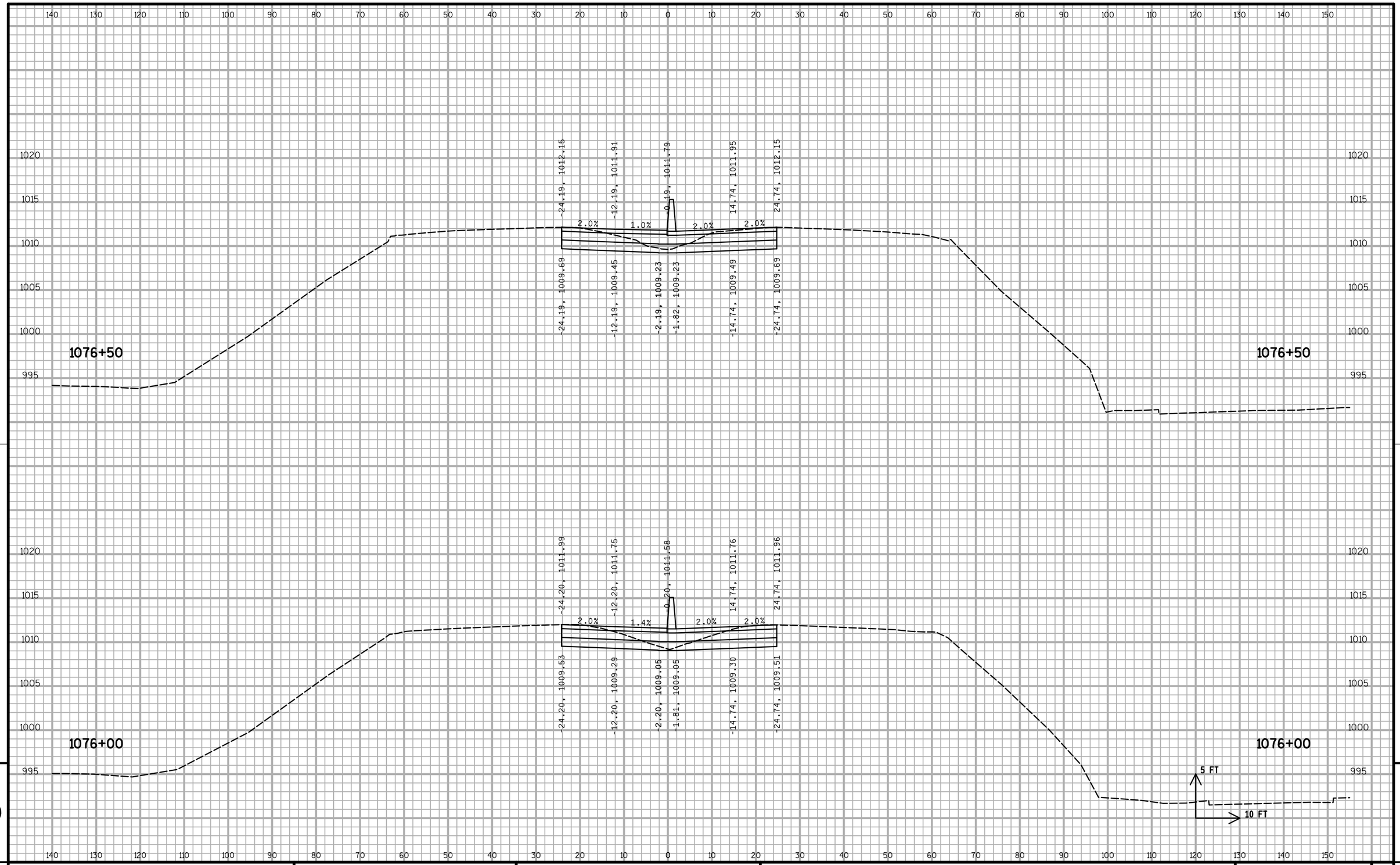
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1267	E

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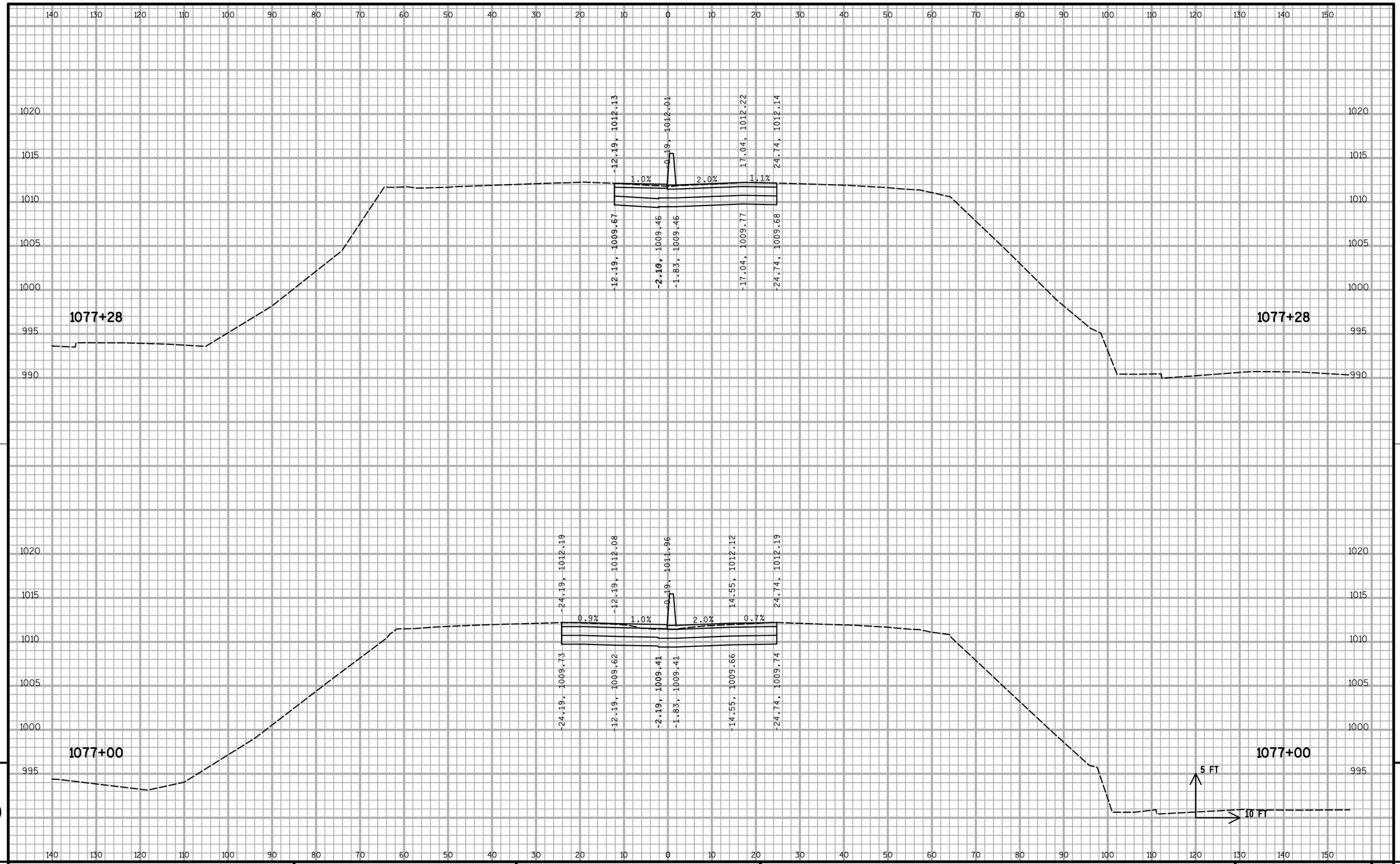
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1268 E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1269 E

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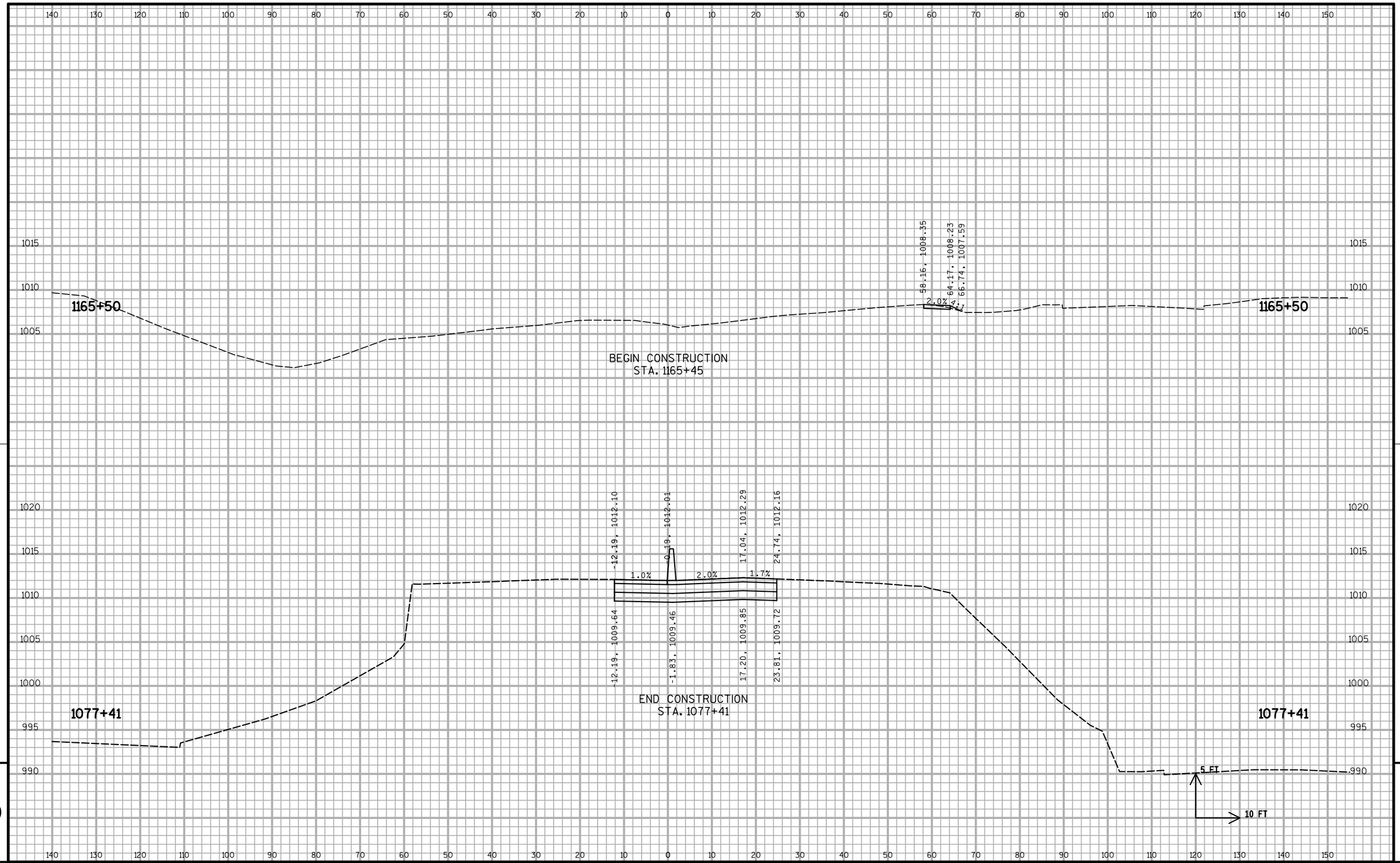


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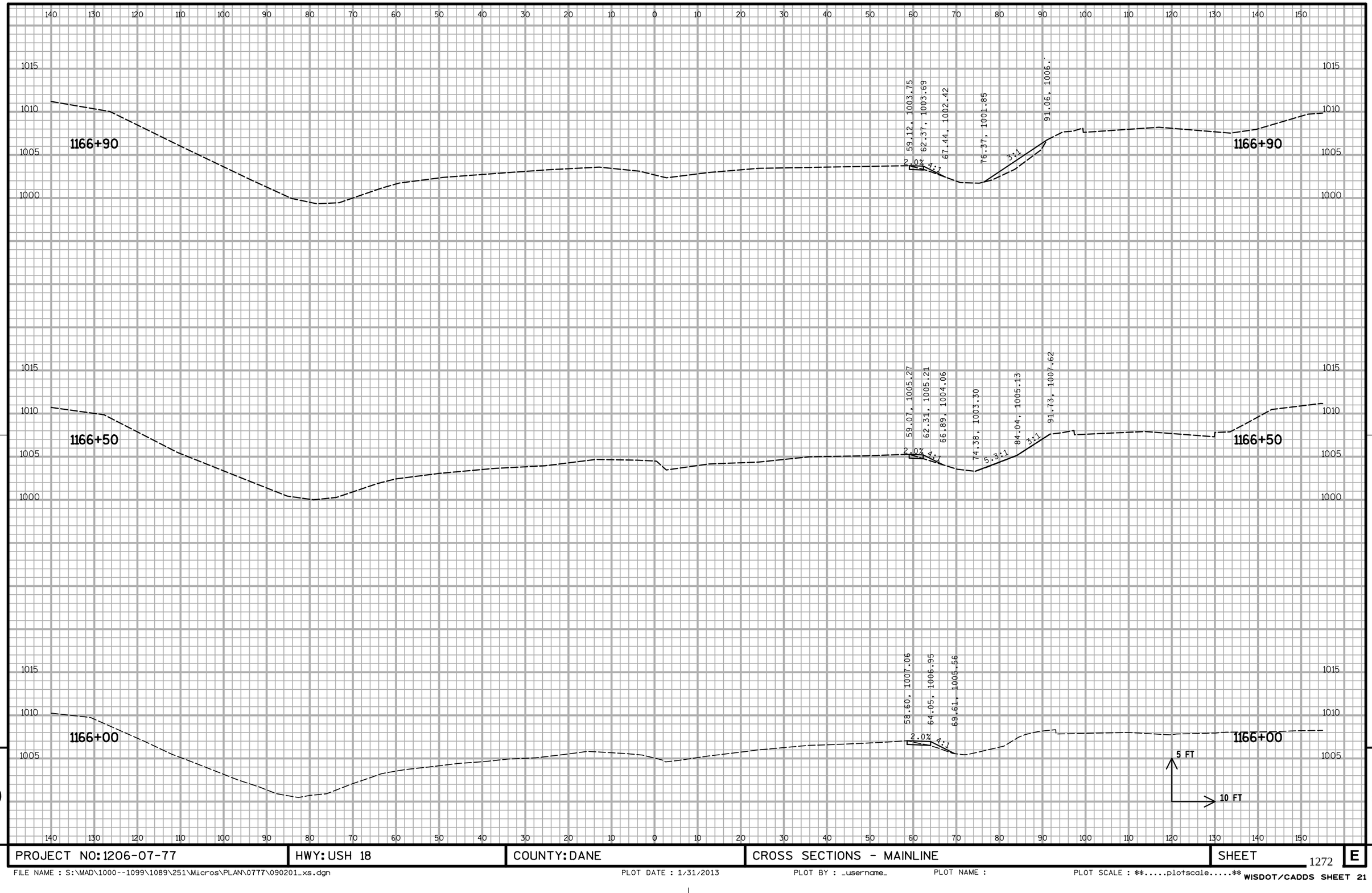
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1270	E

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1271	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

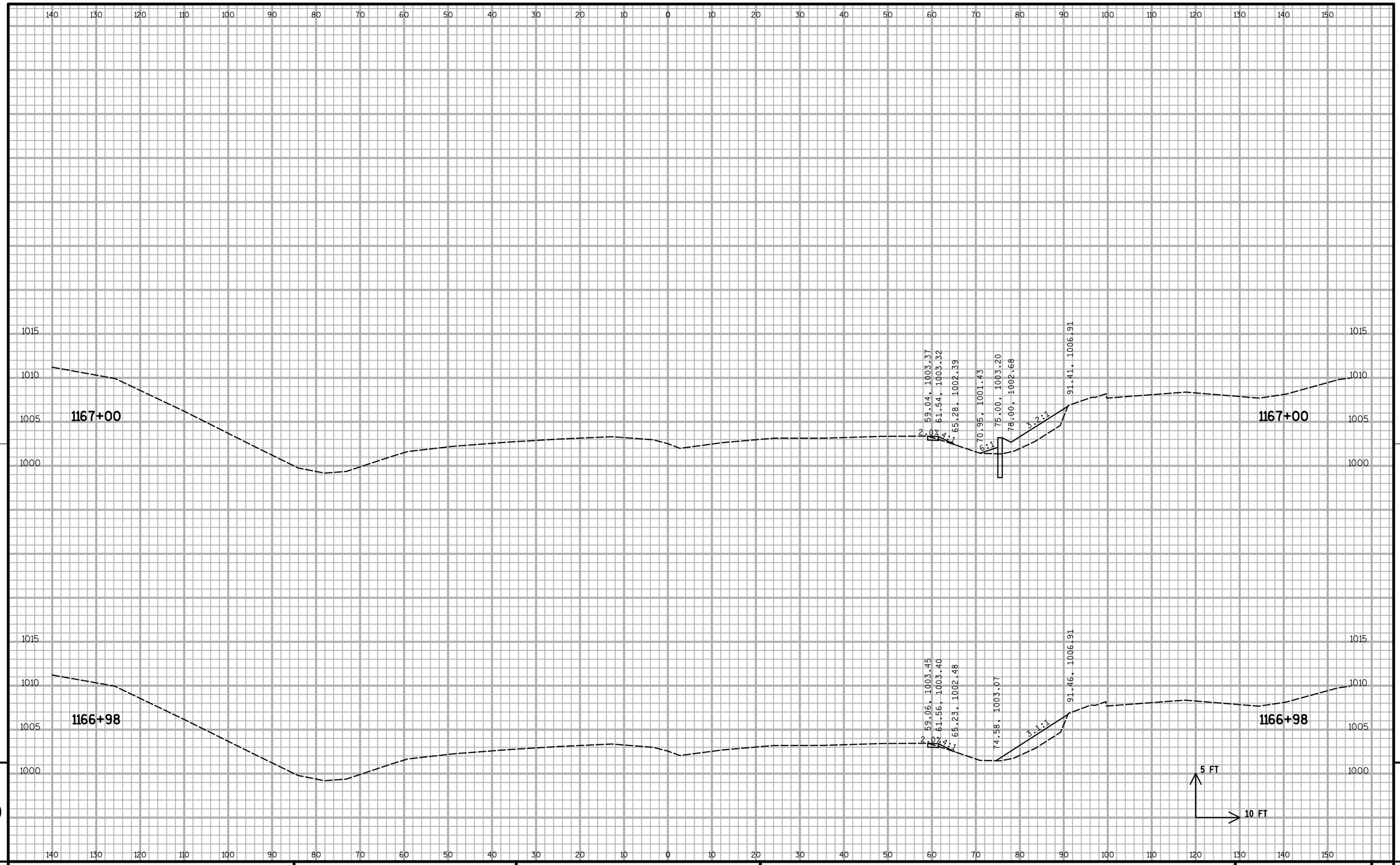


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1272	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

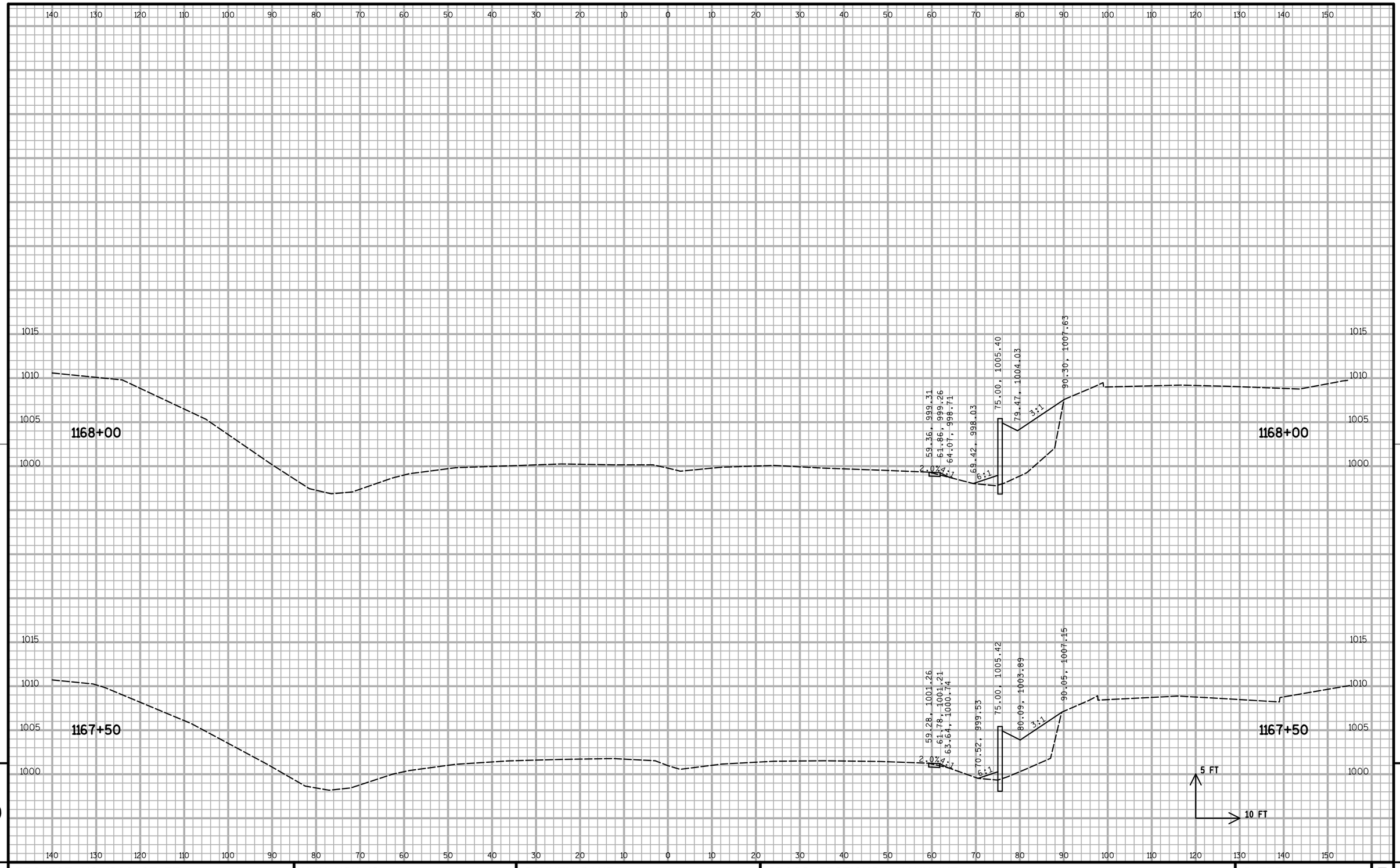


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1273	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

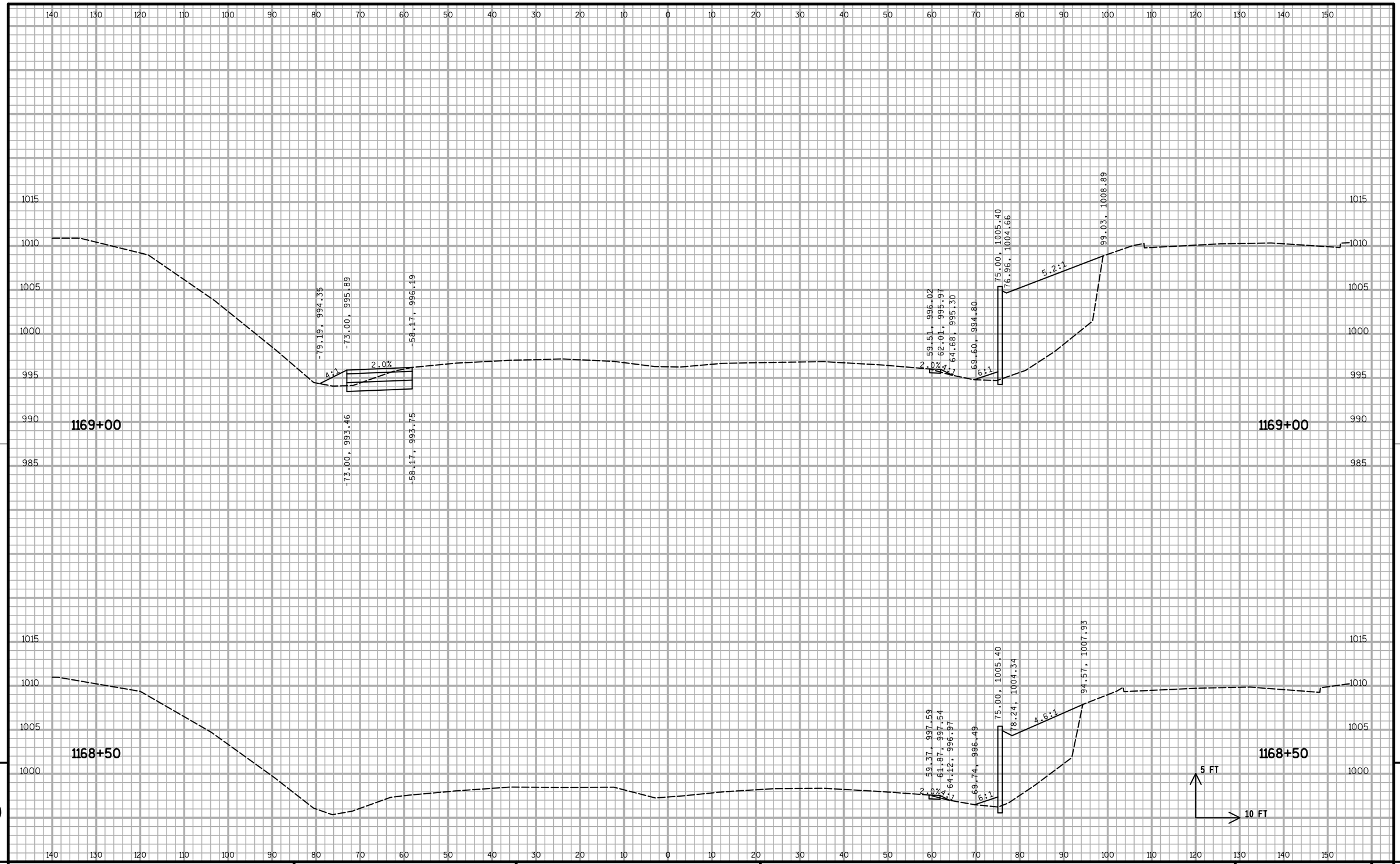


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1274	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

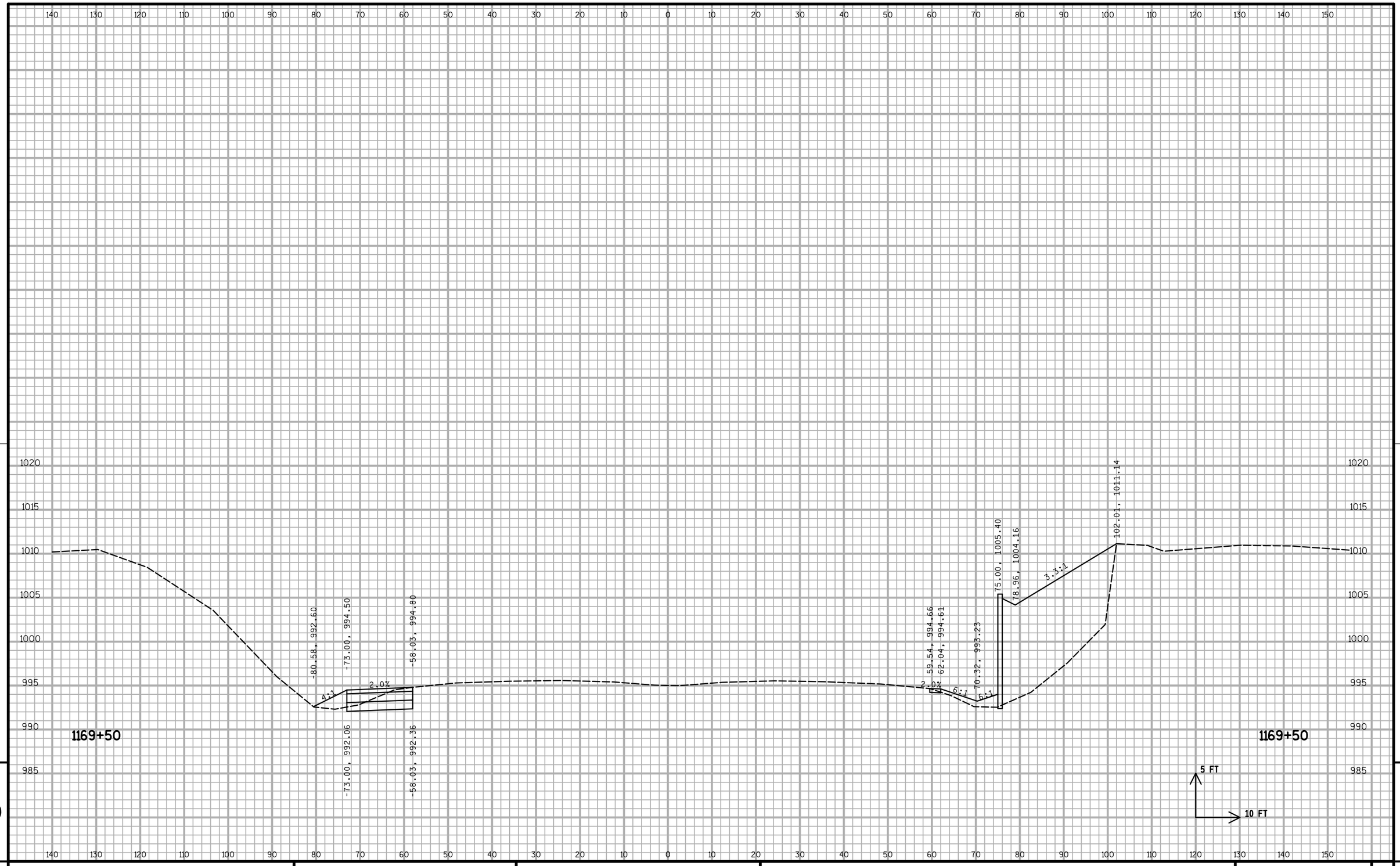


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1275	E

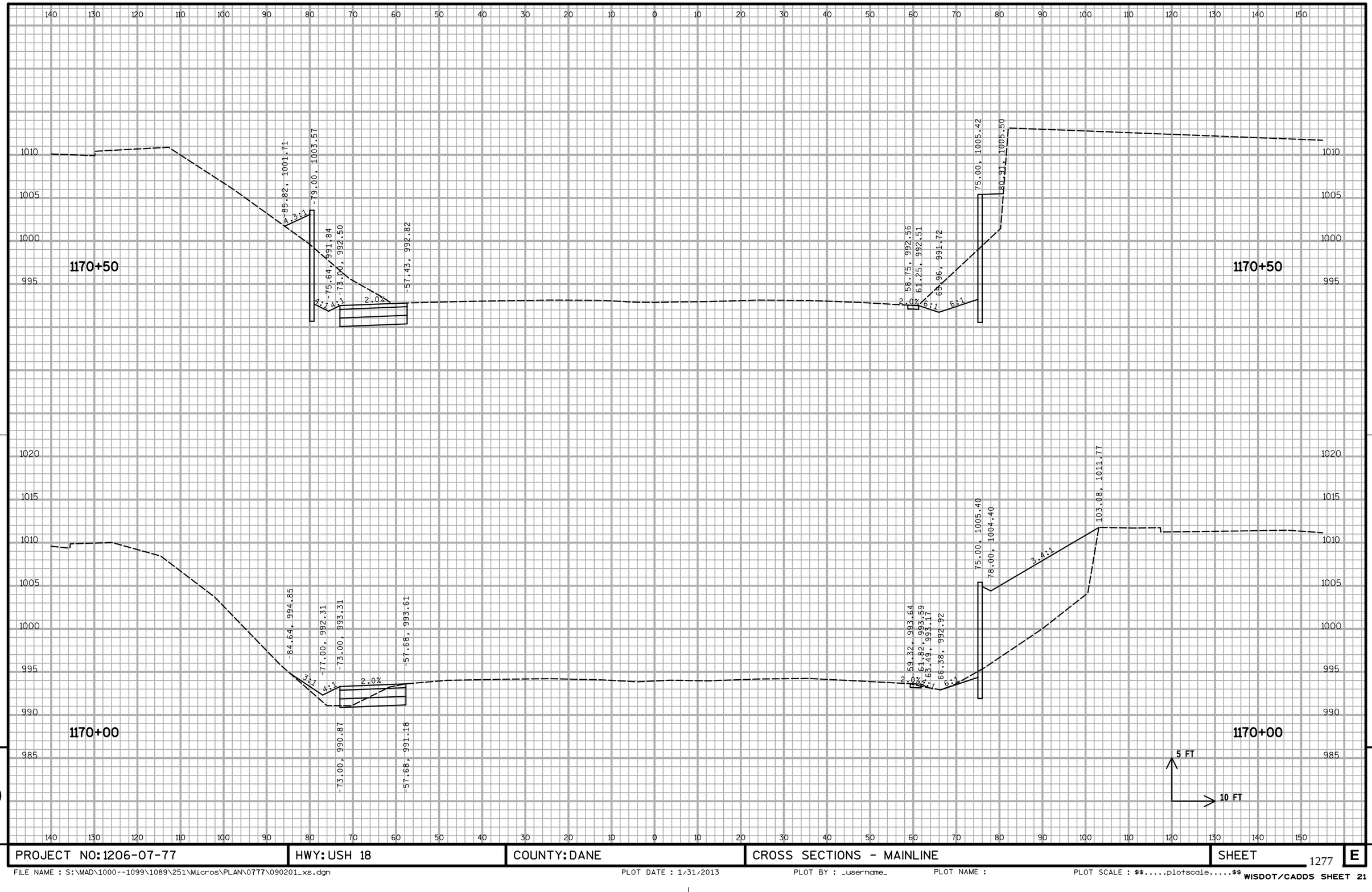
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1276	E

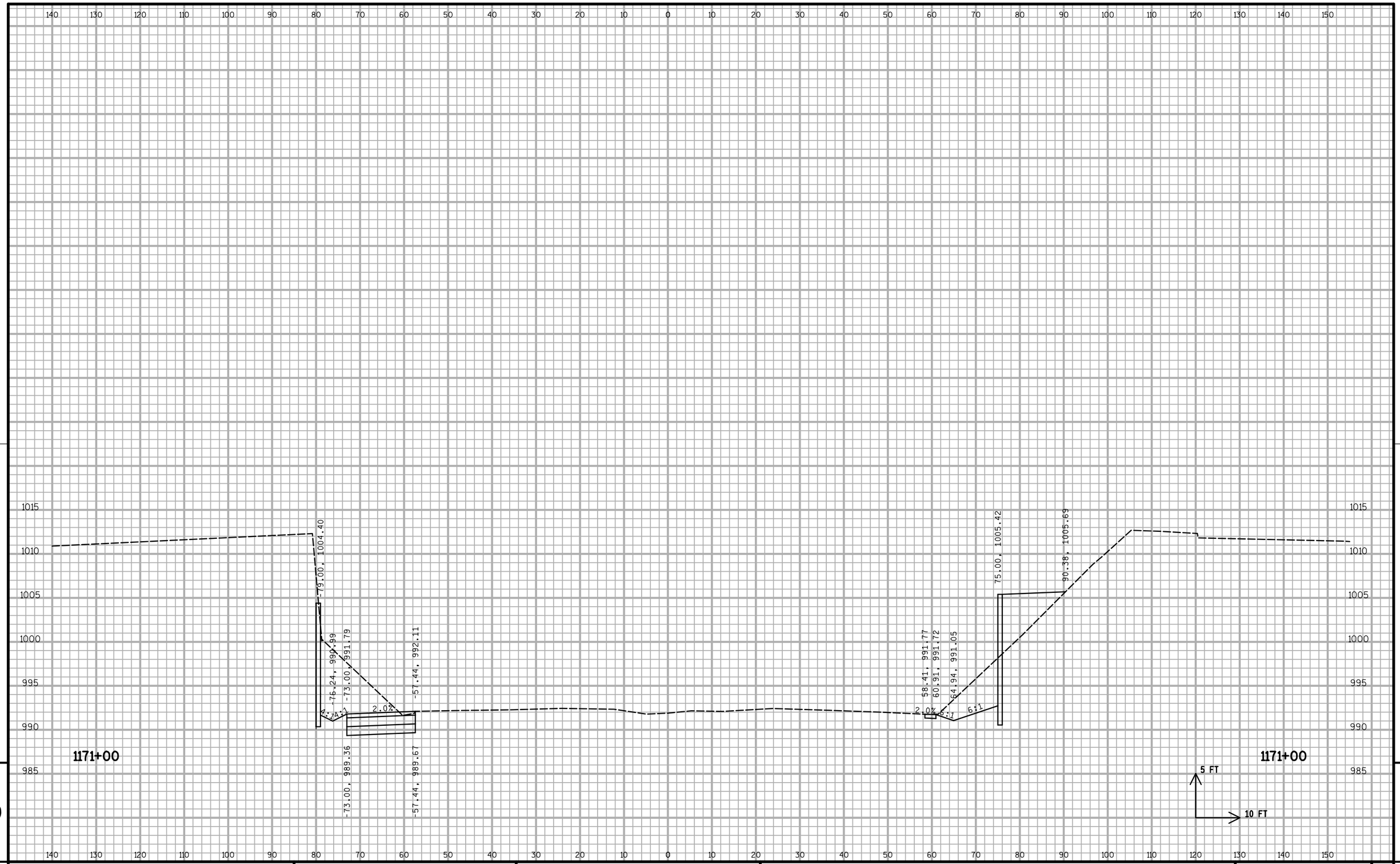


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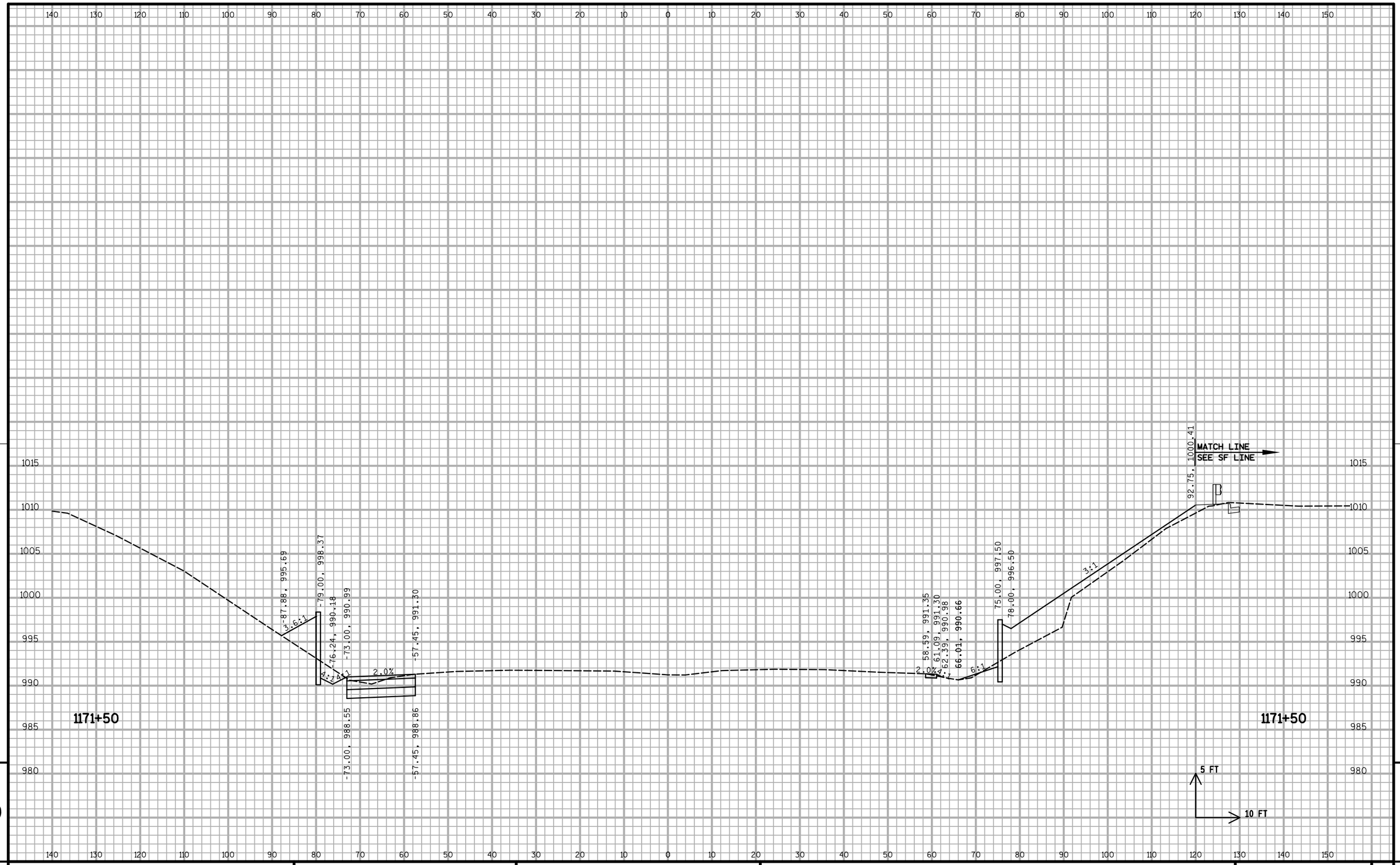
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1277	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1278	E

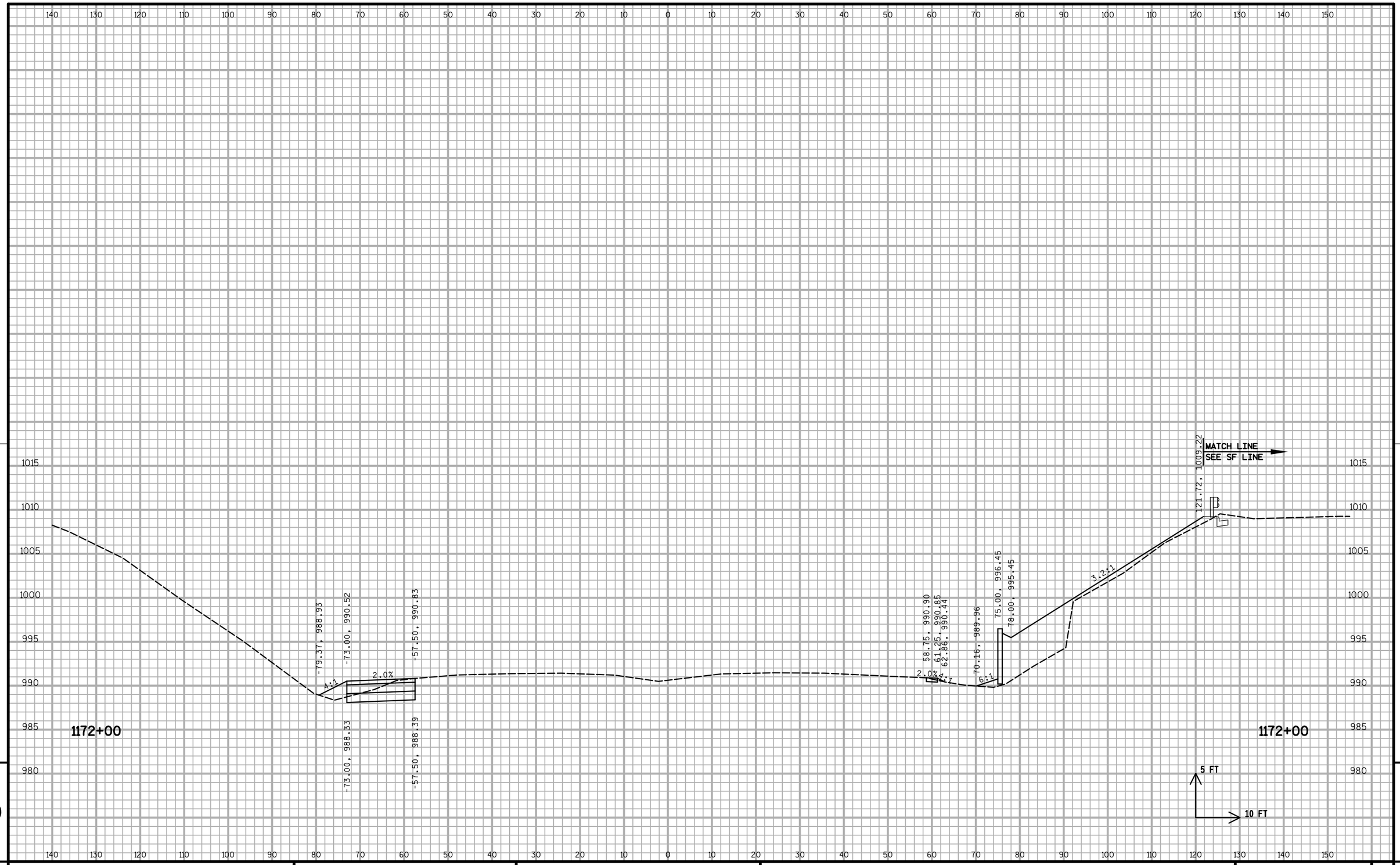
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1279 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

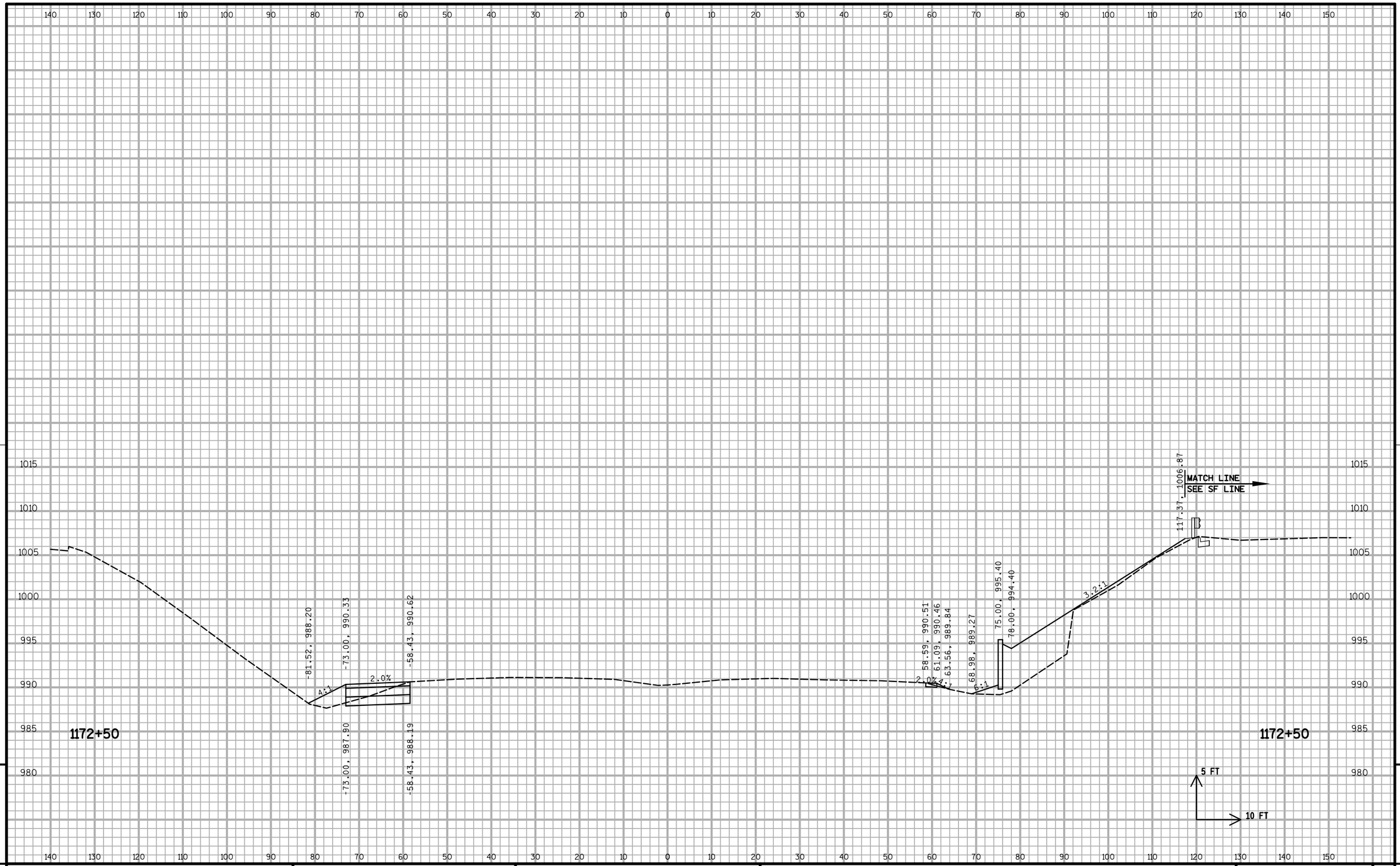
WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1280	E

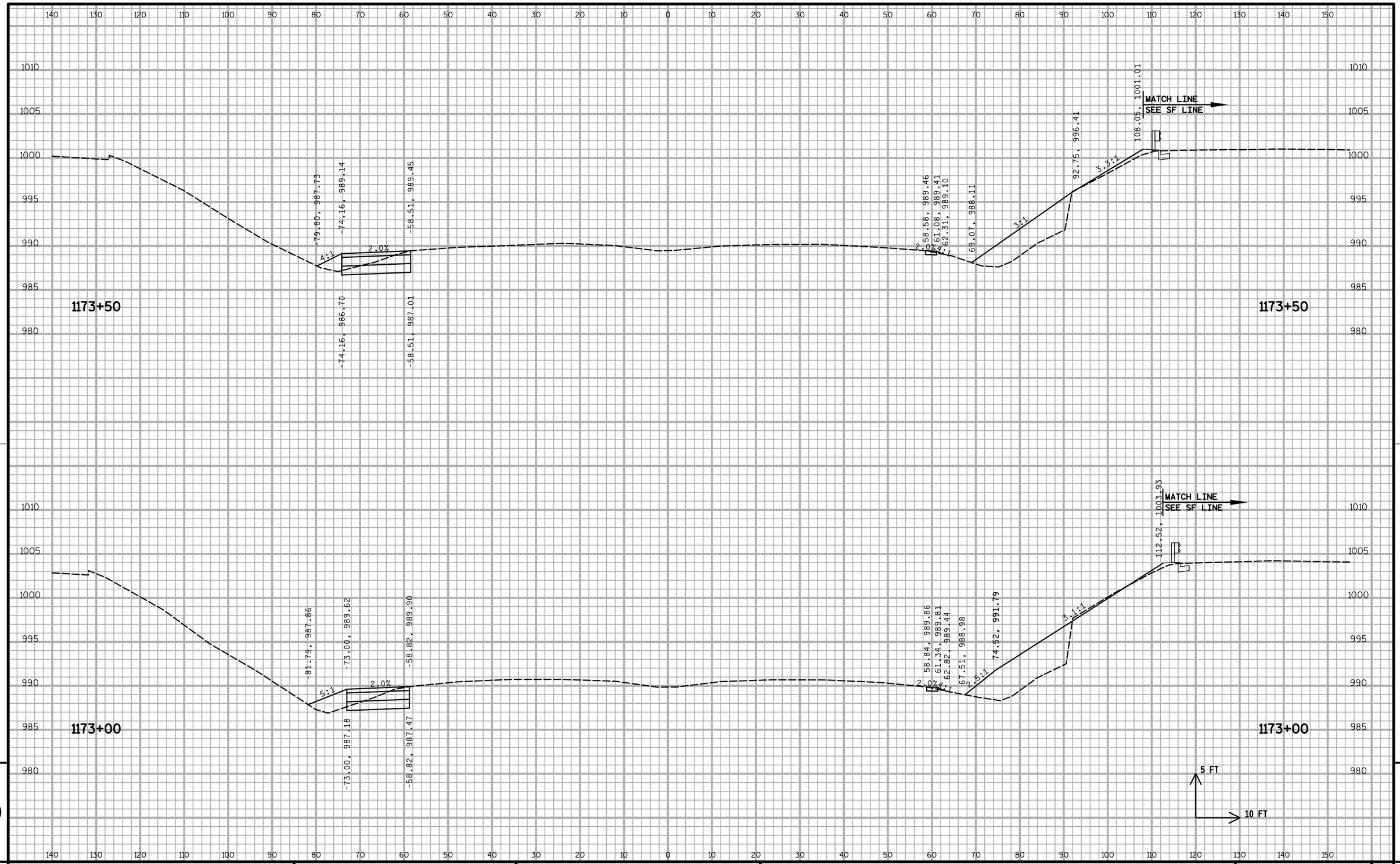
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WISDOT/CADDS SHEET 21



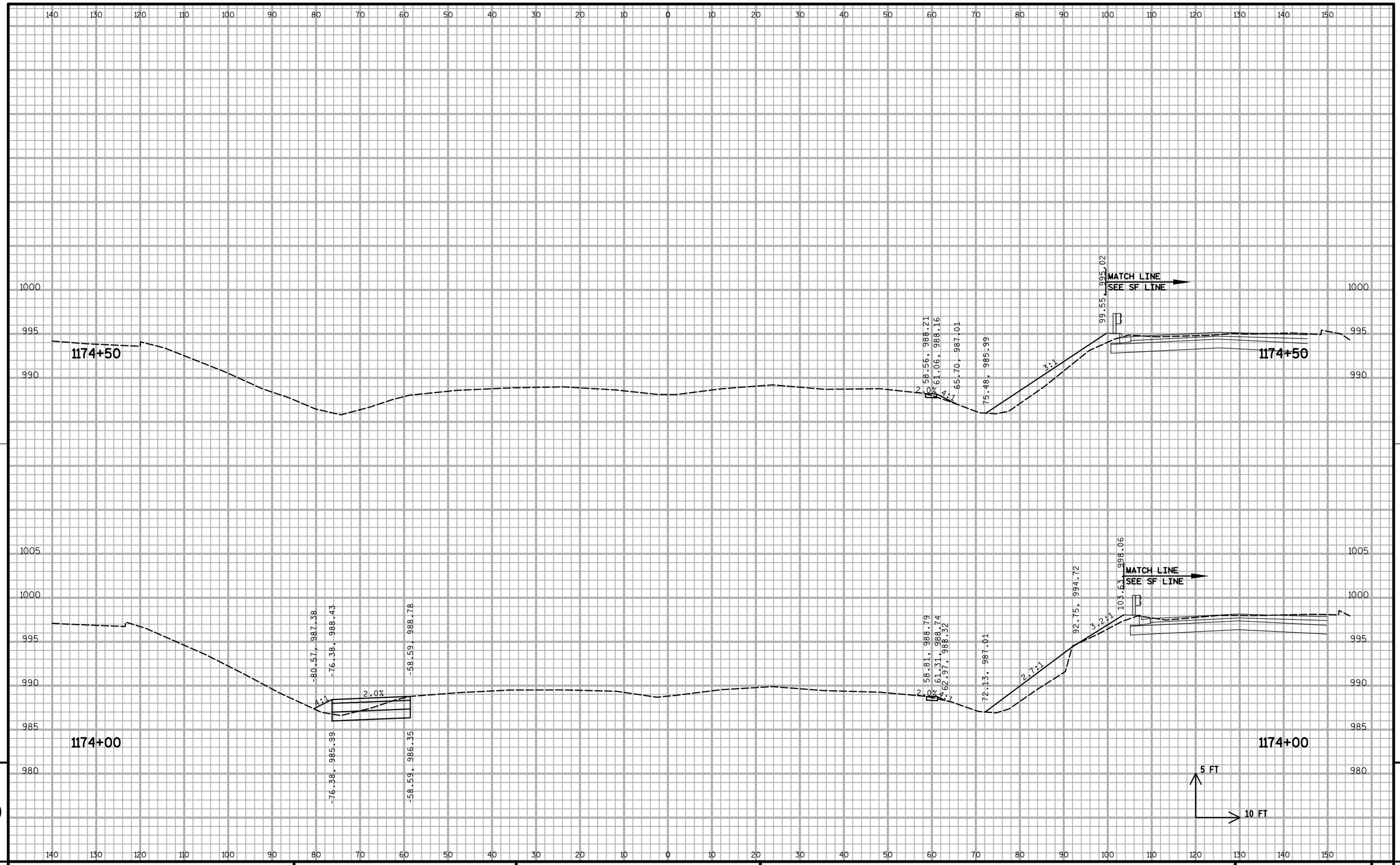
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1281	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



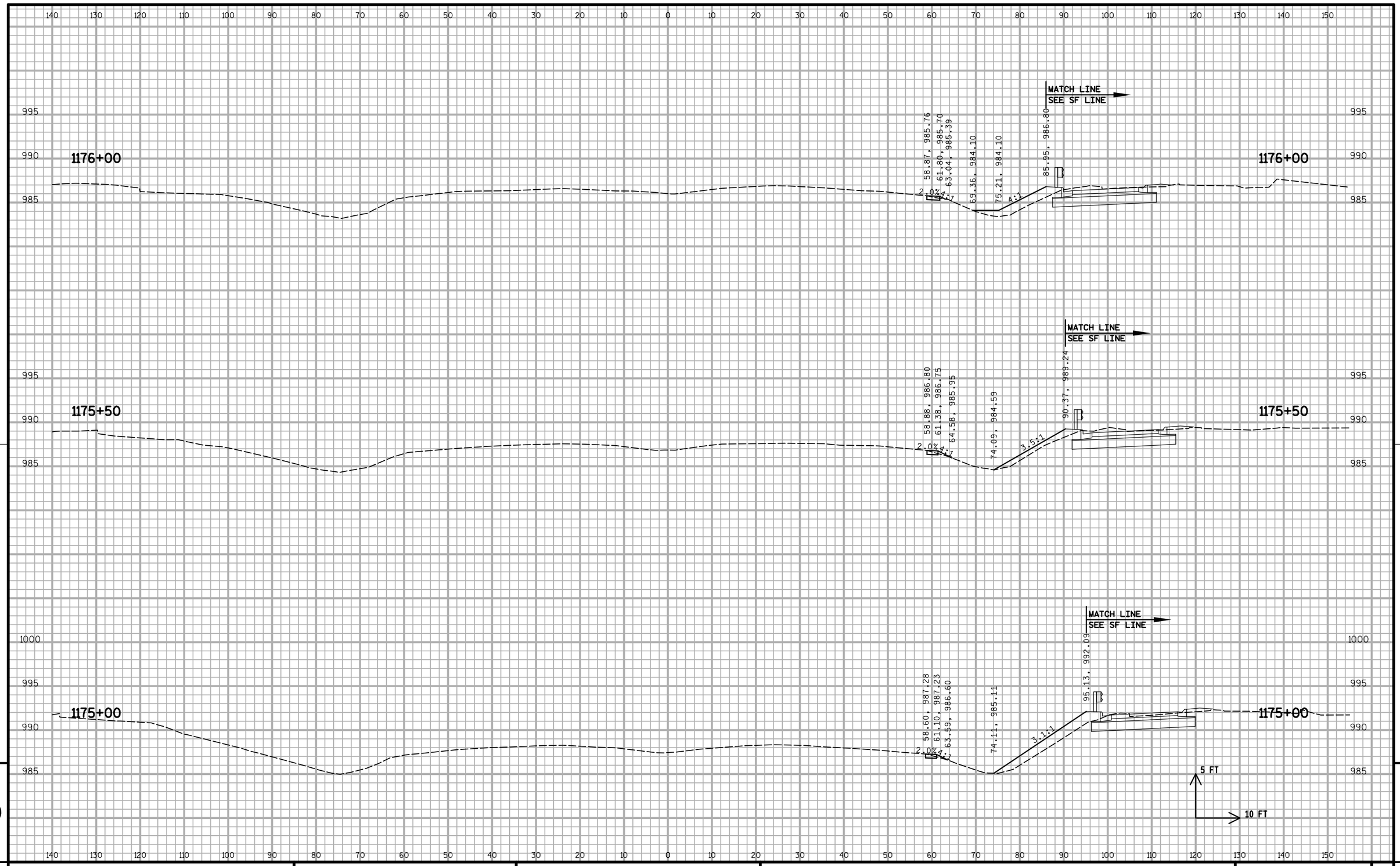
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1282	E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1283	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



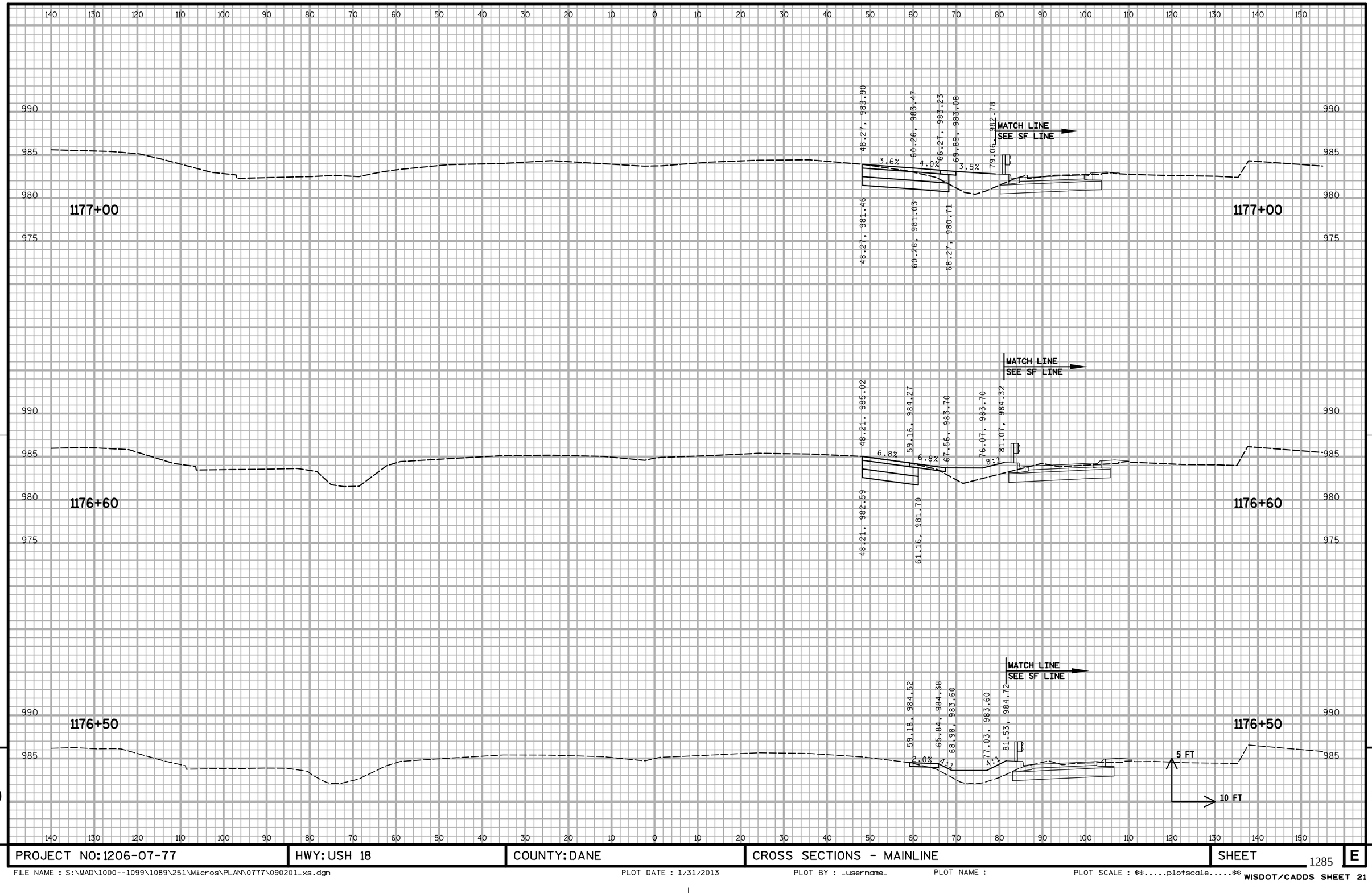
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1284	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

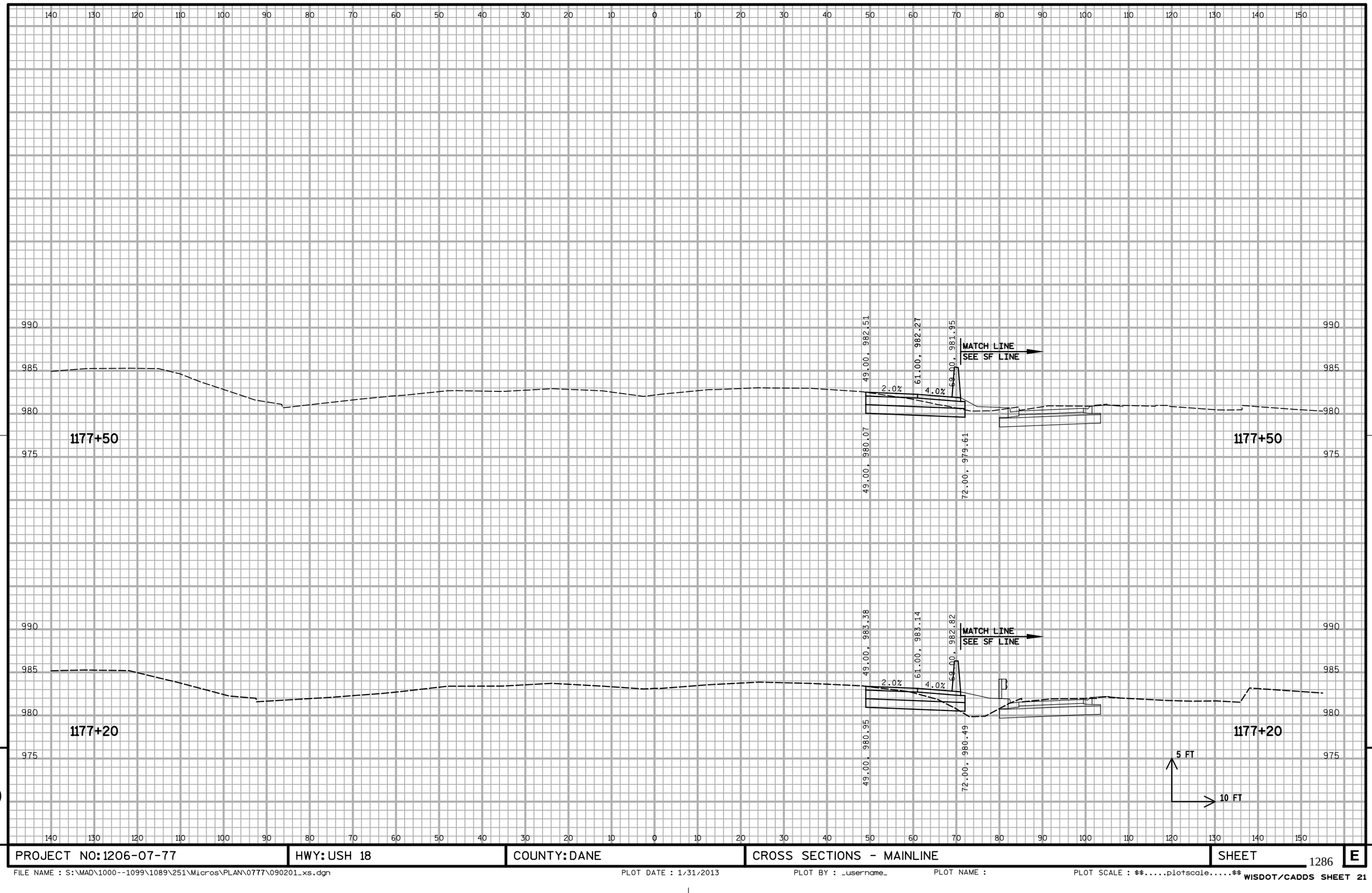
WISDOT/CADDS SHEET 21



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1285	E



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1286	E

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

985
980
975
970

1178+50

49.00, 979.42
61.00, 979.18
69.00, 978.86
2.0%
4.0%
MATCH LINE
SEE S LINE

49.00, 976.98
72.00, 976.52

1178+50

985
980
975
970

1178+00

49.00, 980.90
61.00, 980.67
69.00, 980.35
2.0%
4.0%
MATCH LINE
SEE S LINE

49.00, 978.47
72.00, 978.01

1178+00

5 FT
10 FT

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

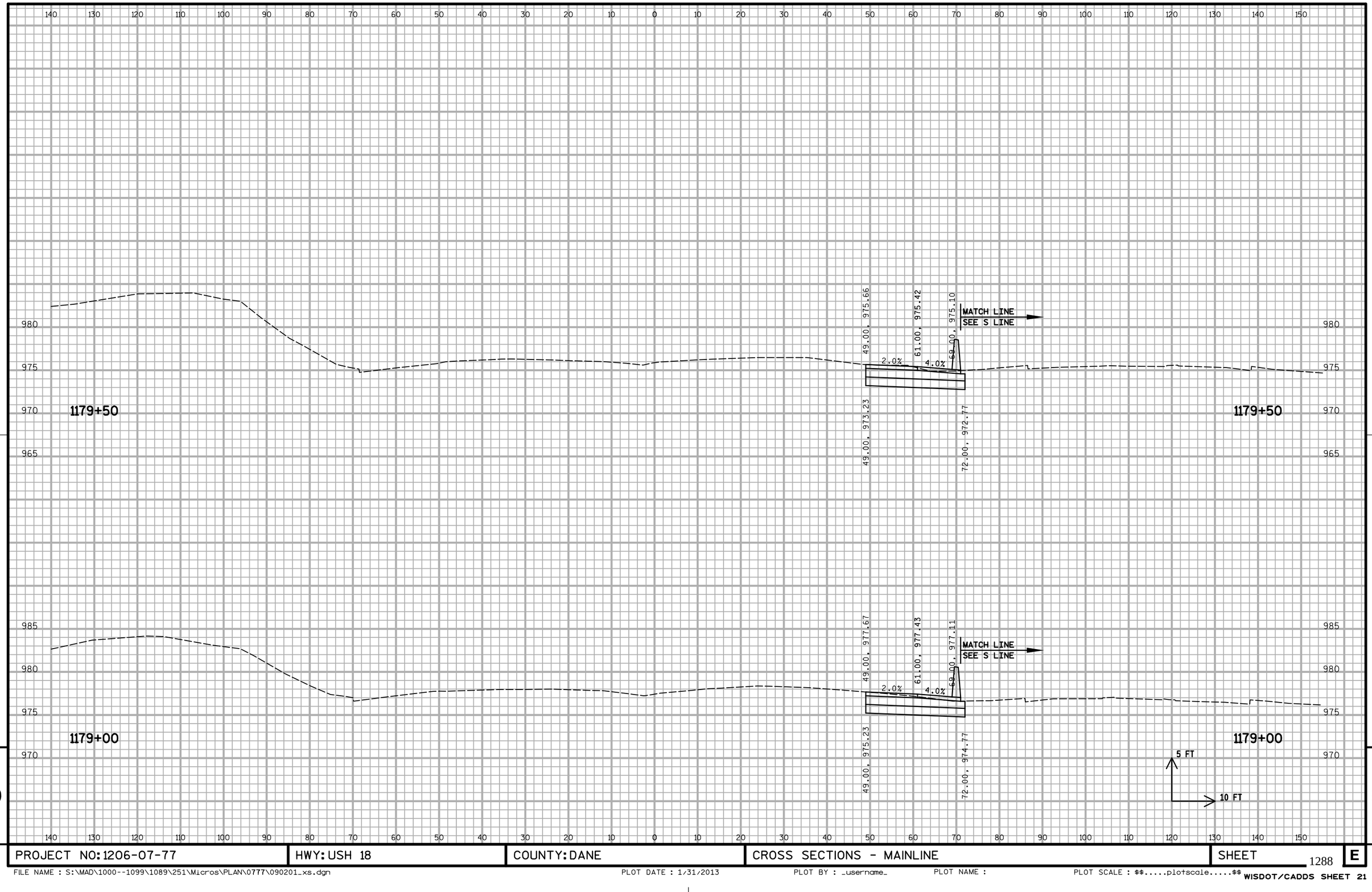
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1287	E

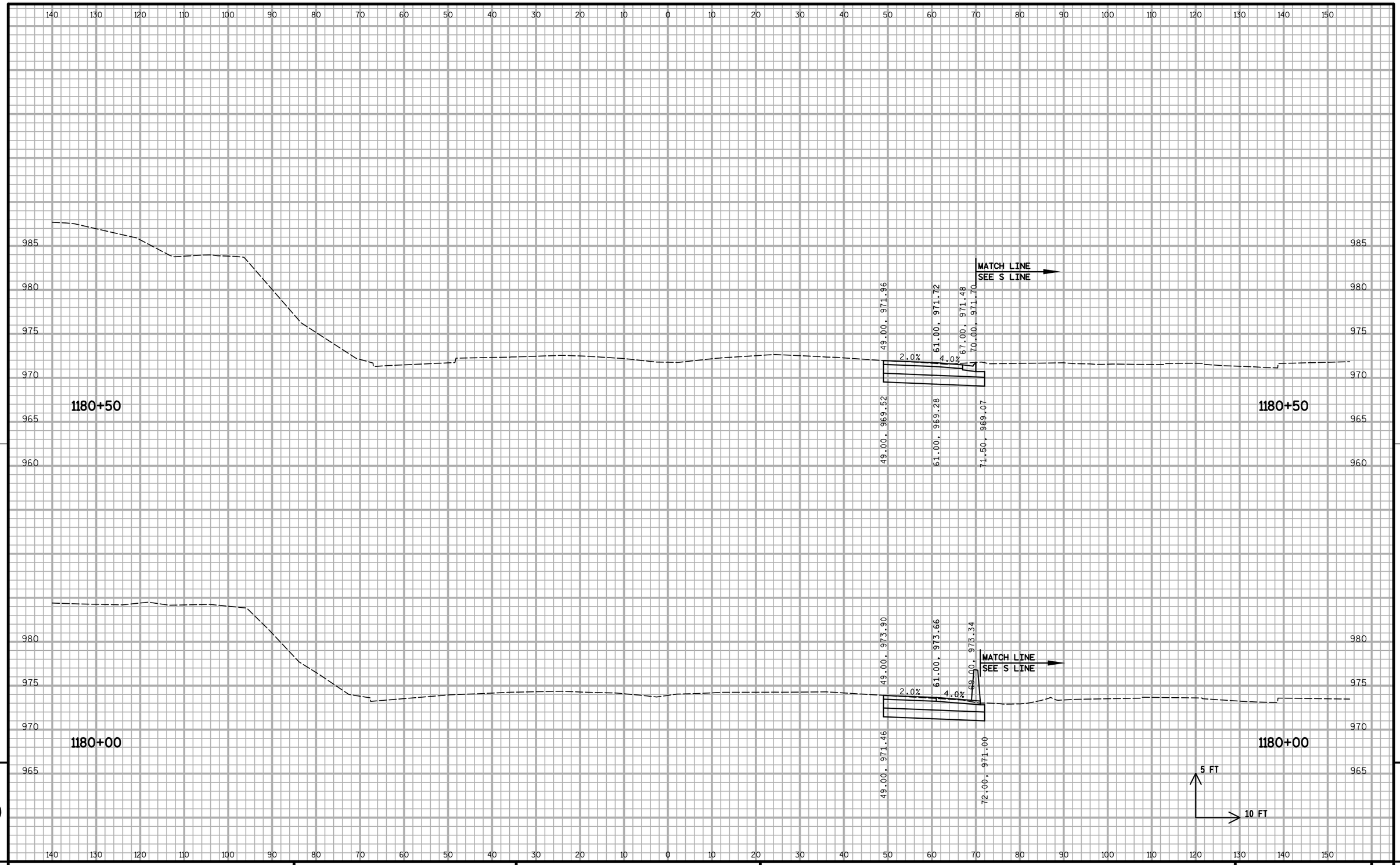
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WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1288	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

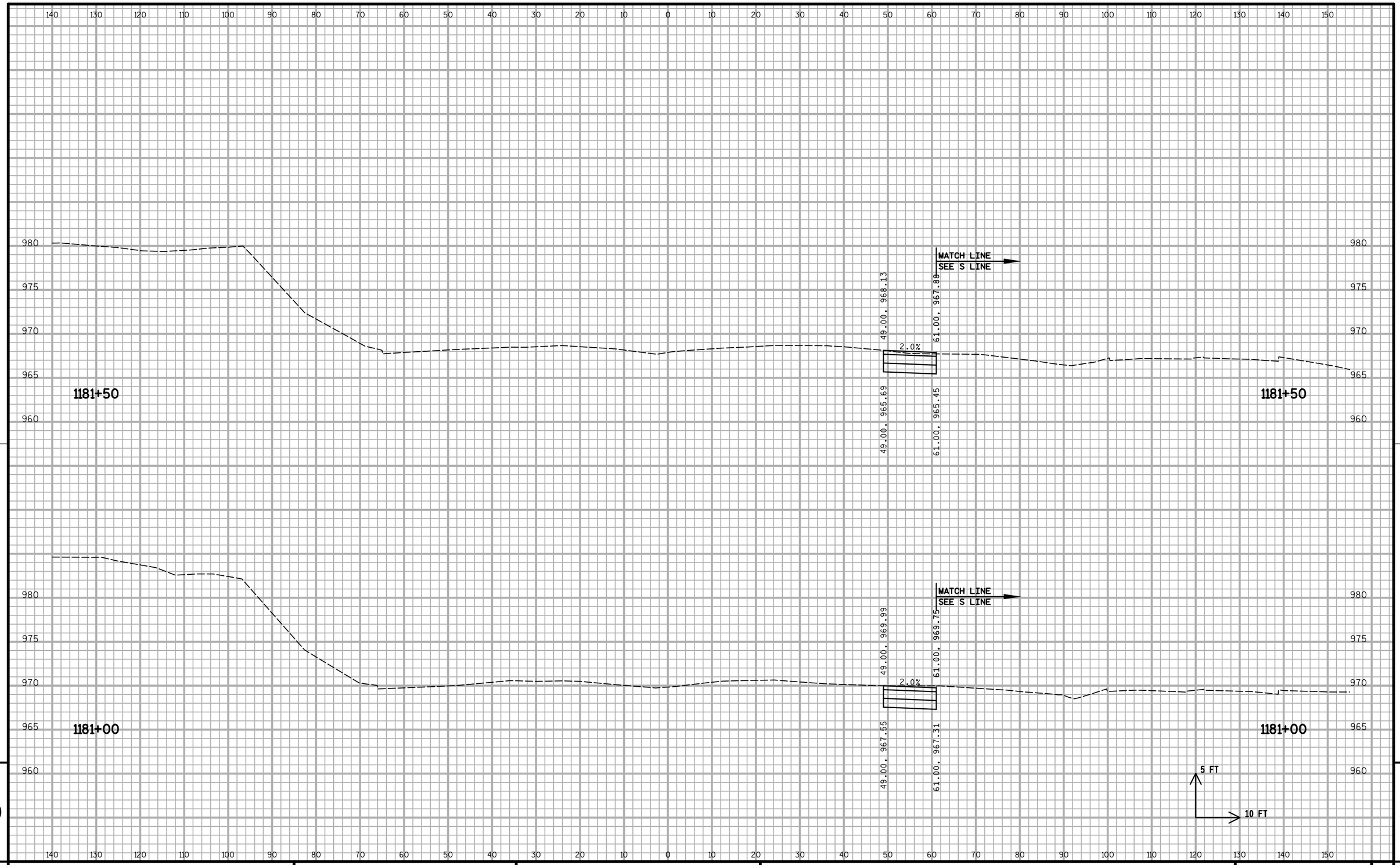


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1289	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

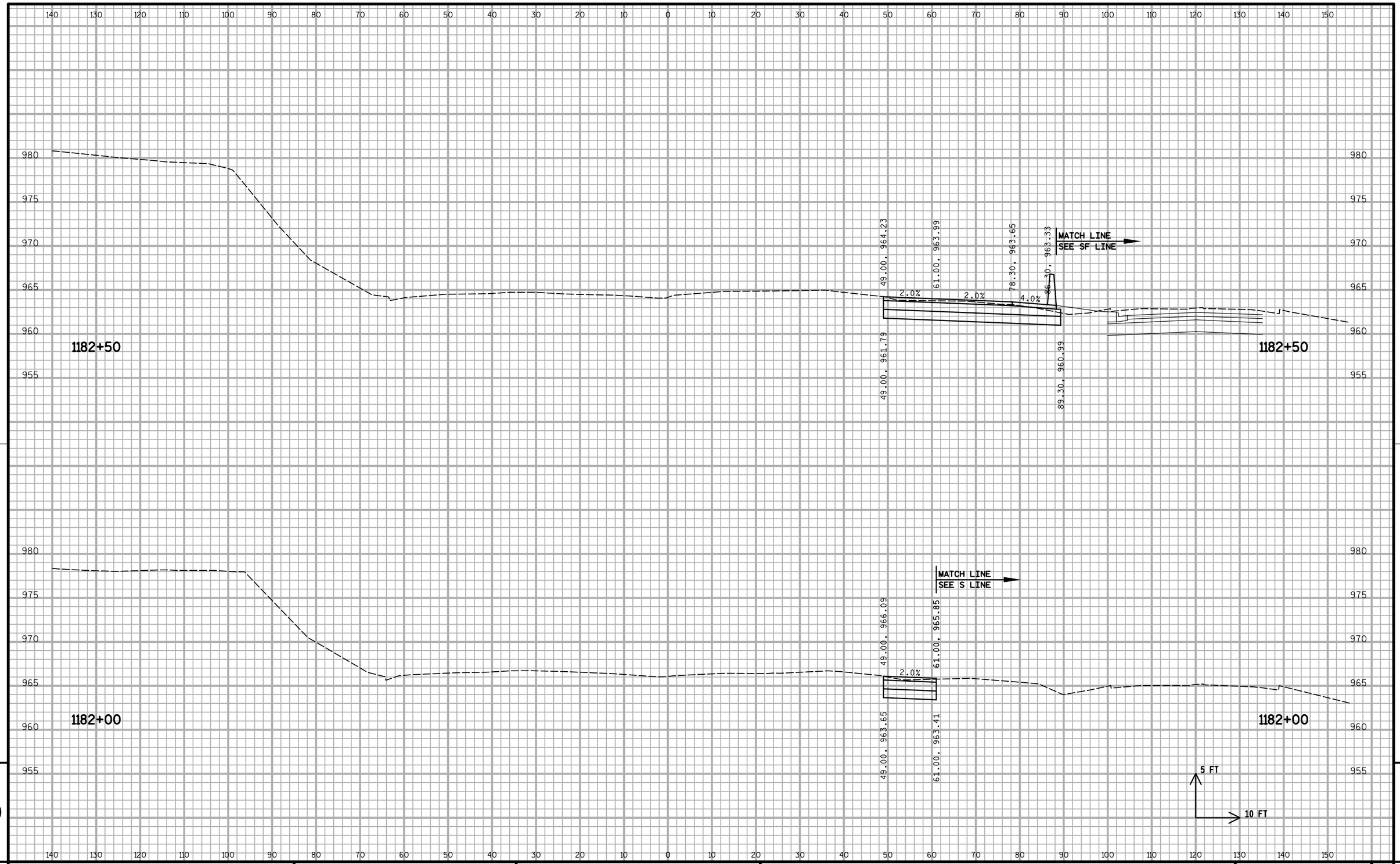


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1290	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

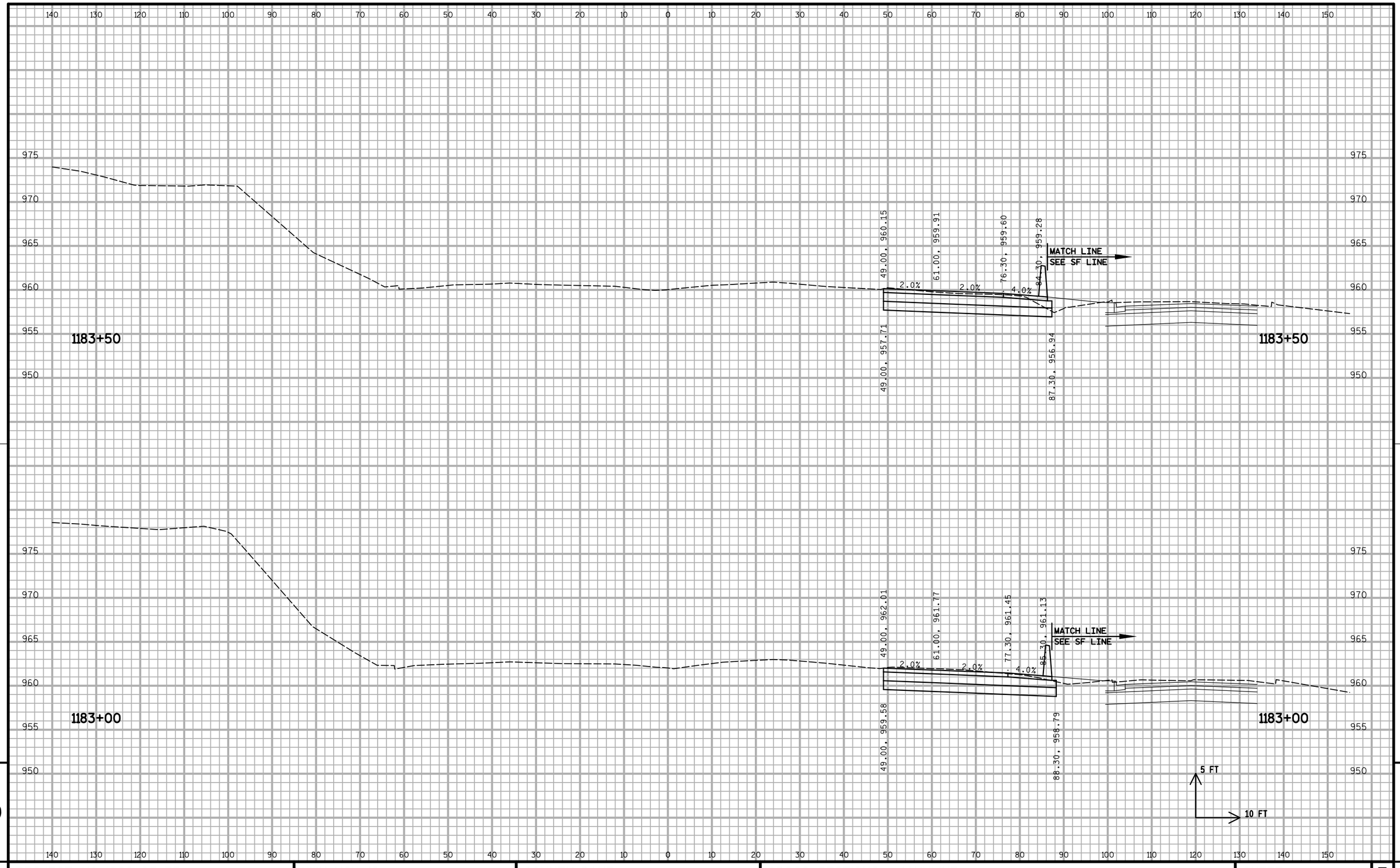


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1291	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

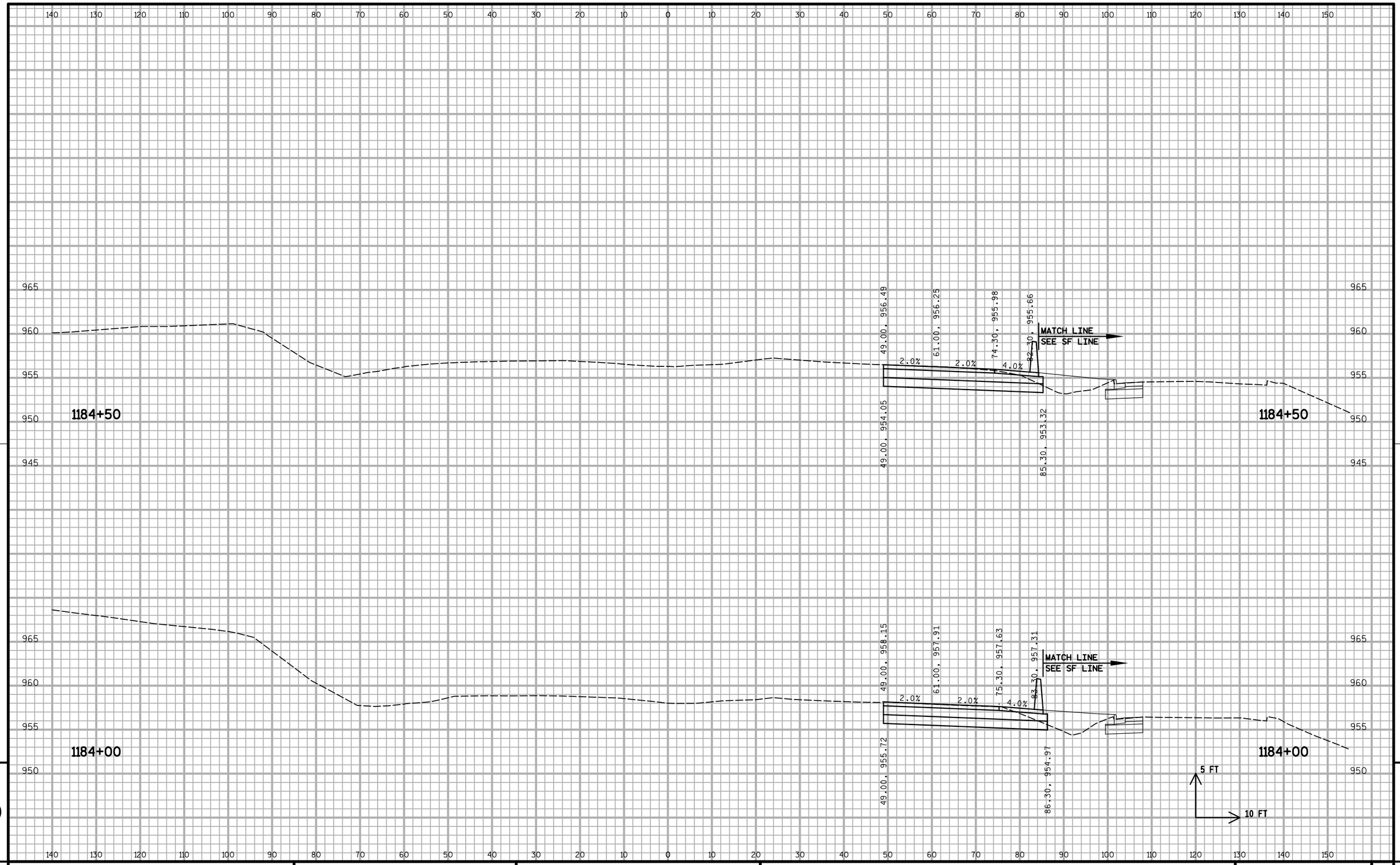


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1292	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



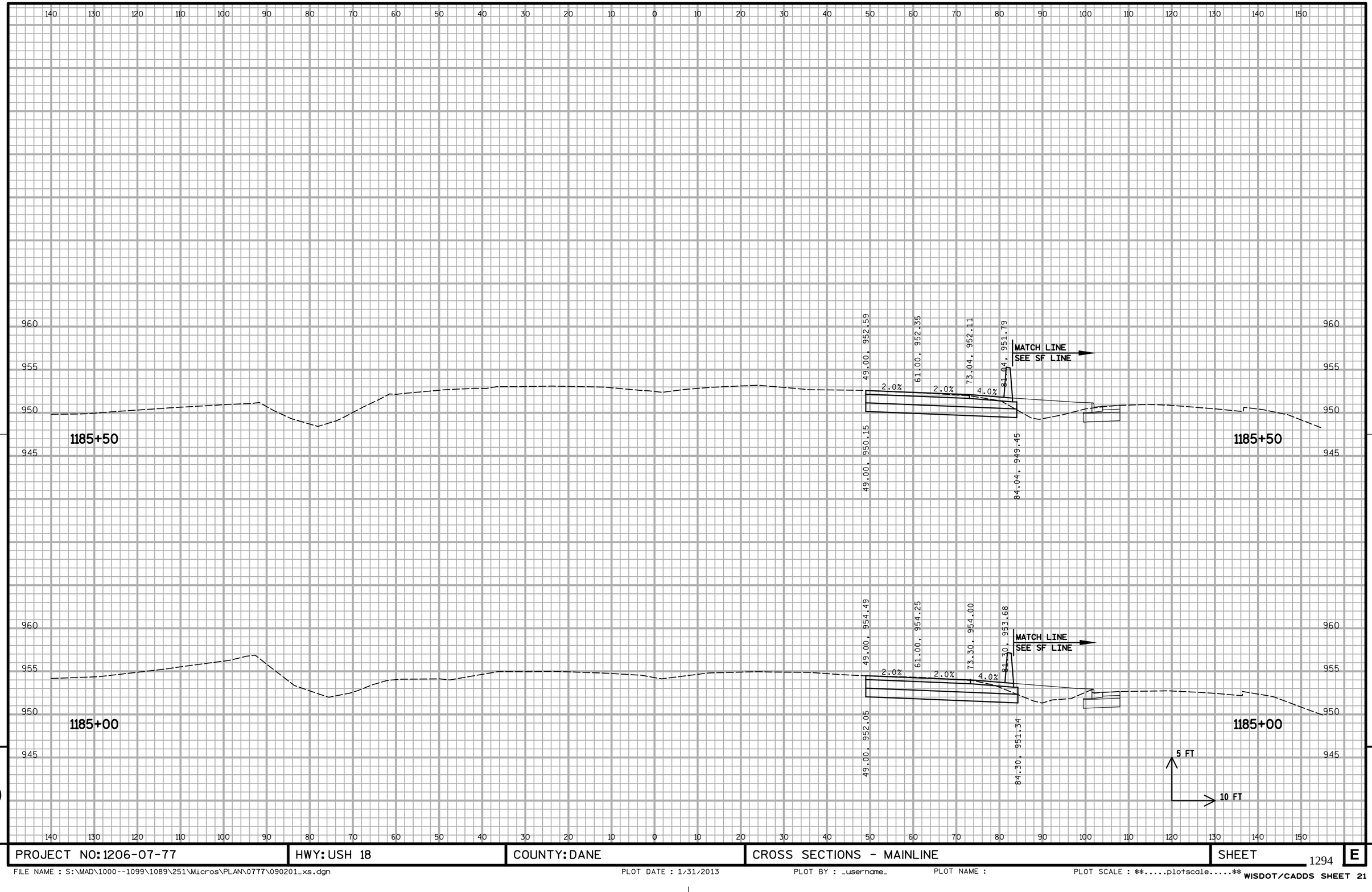
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1293	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

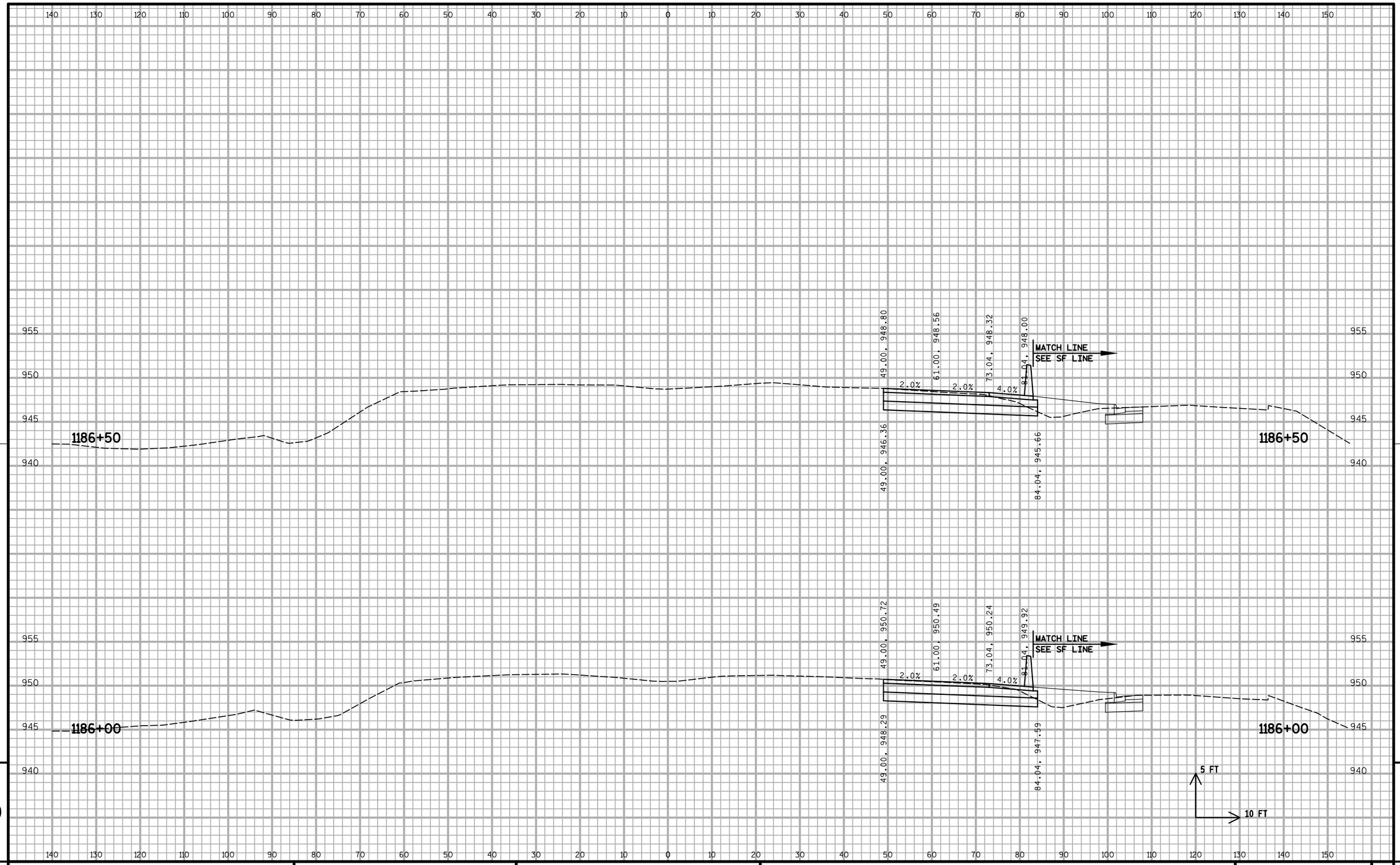


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1294	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

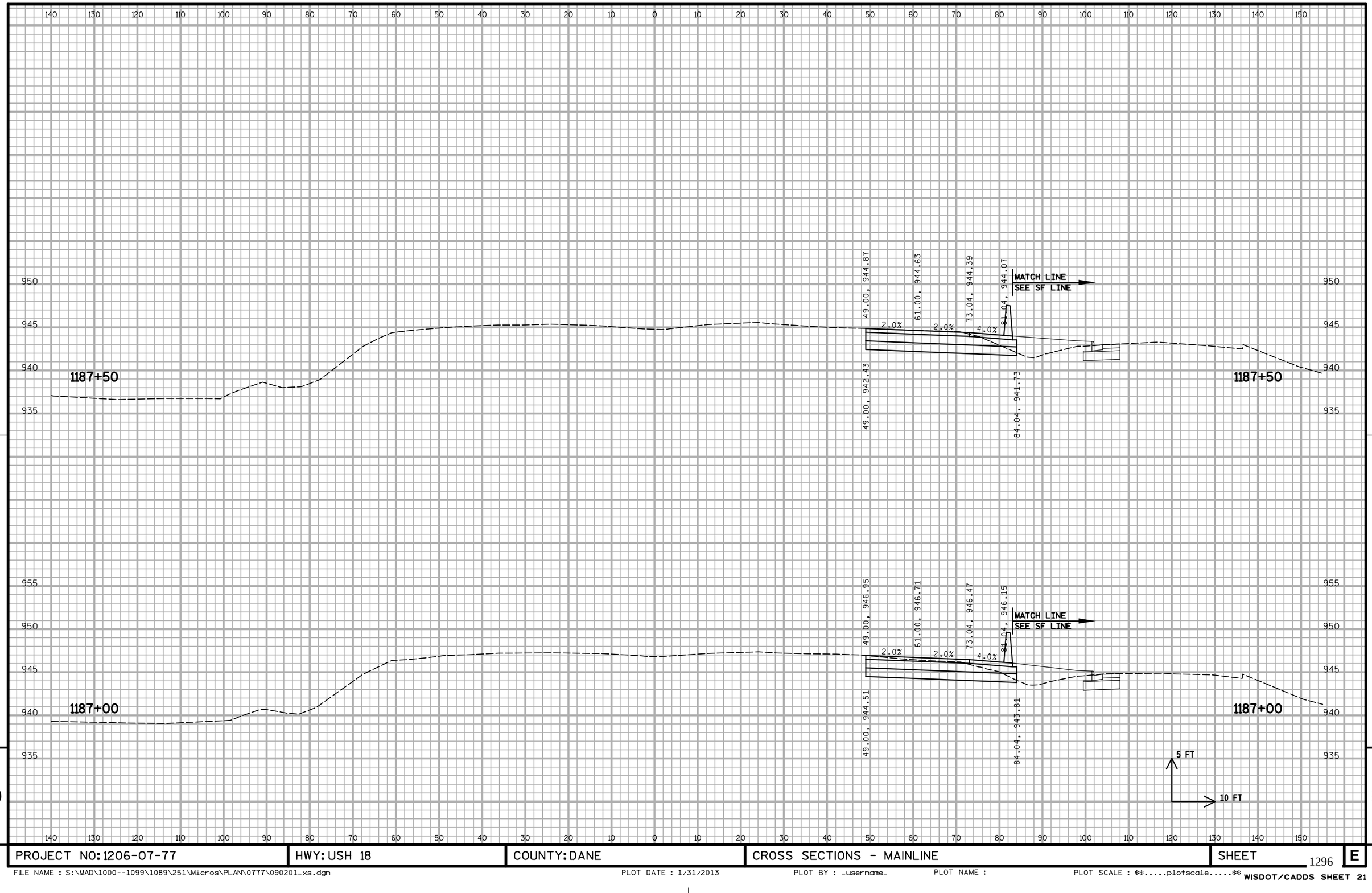


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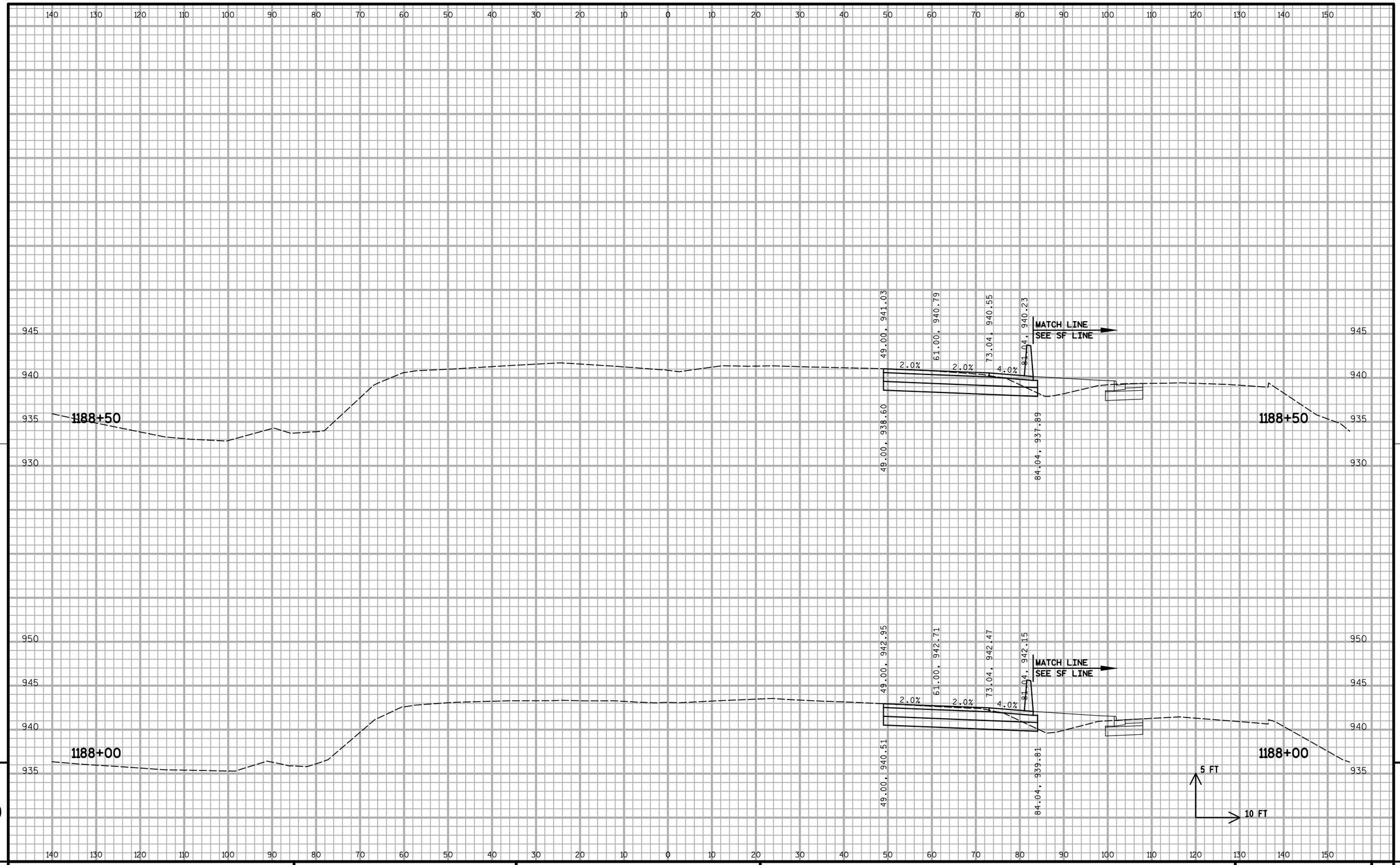
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

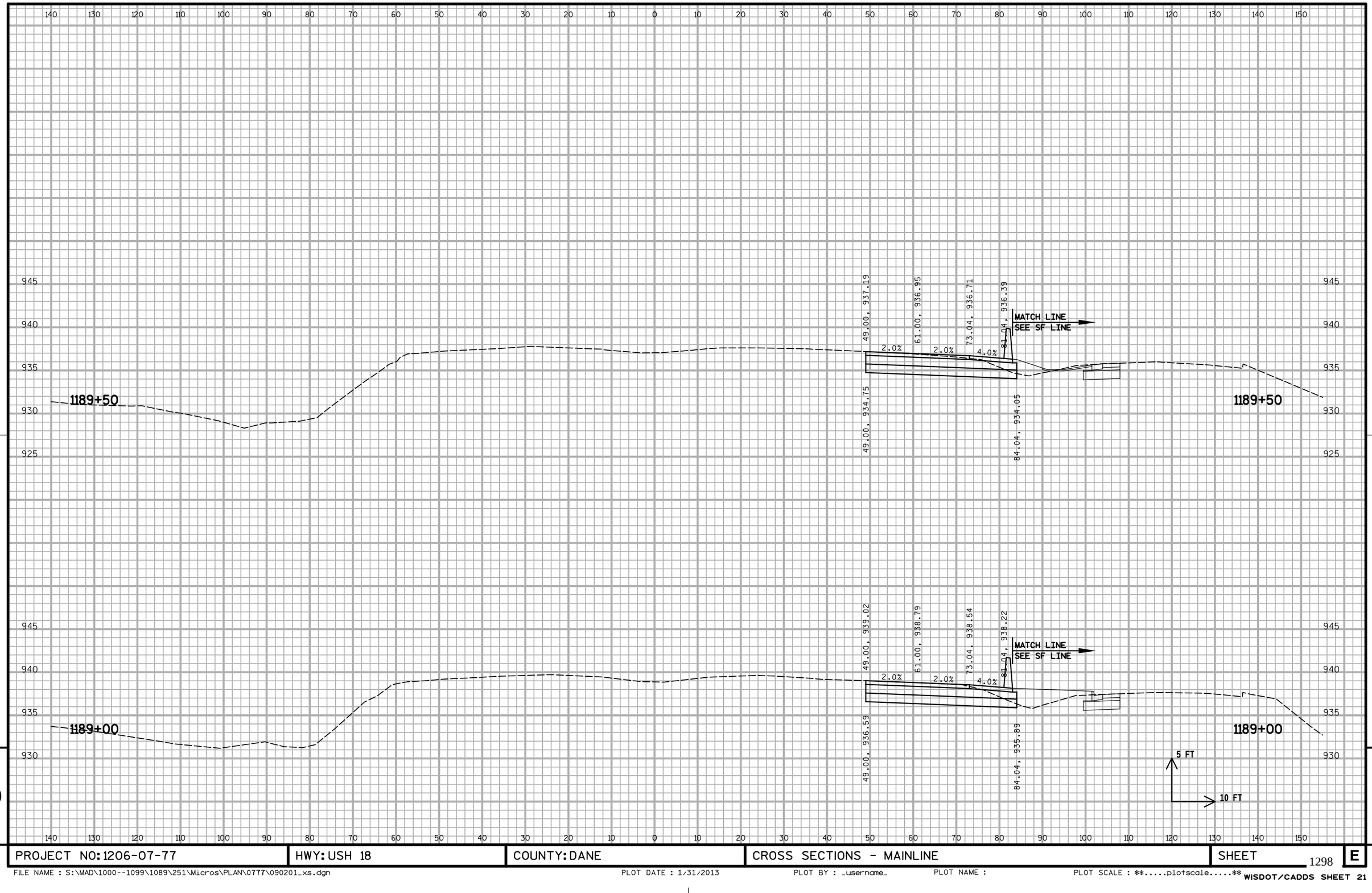


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1296 E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET	E

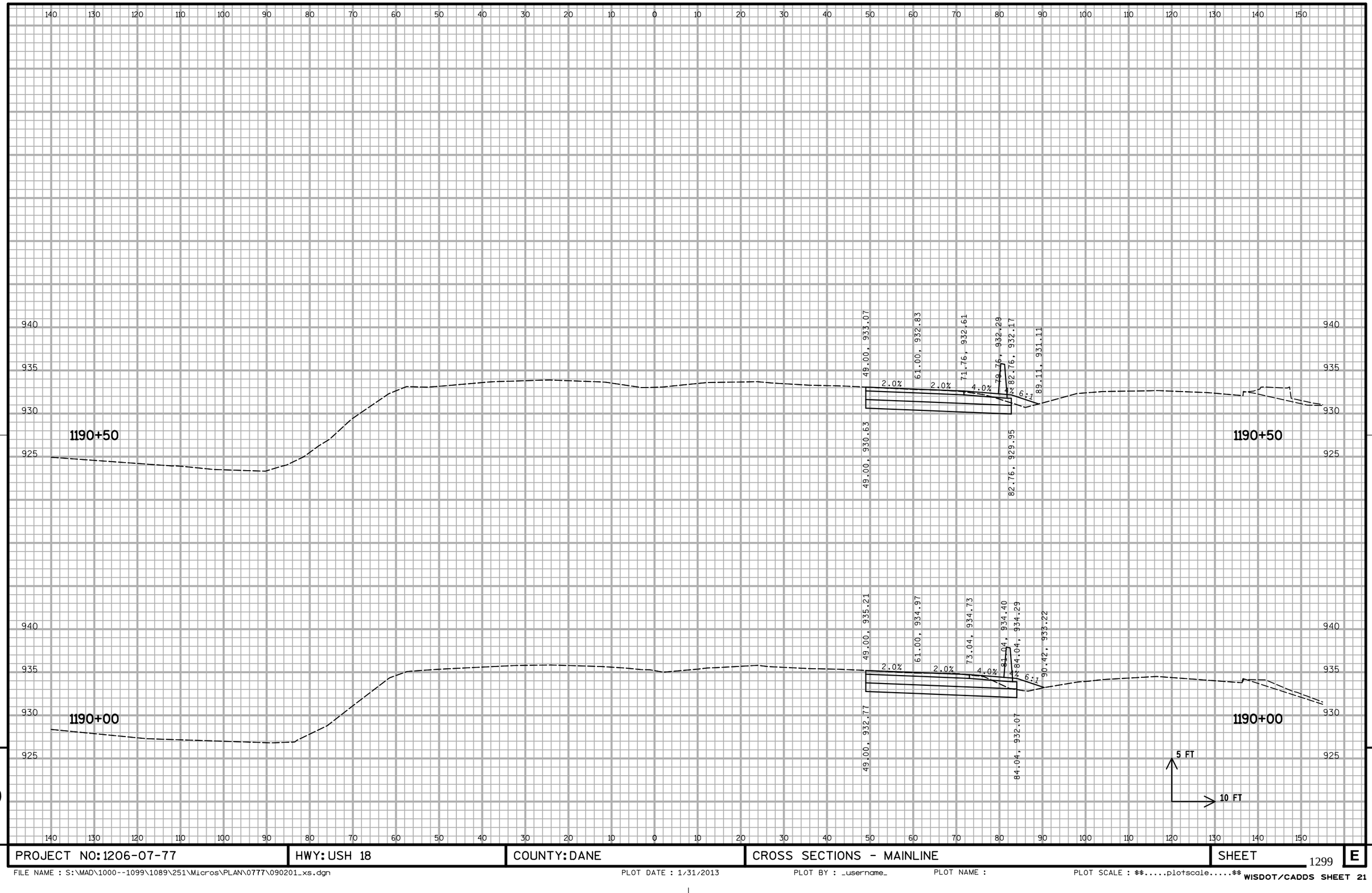
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1298	E



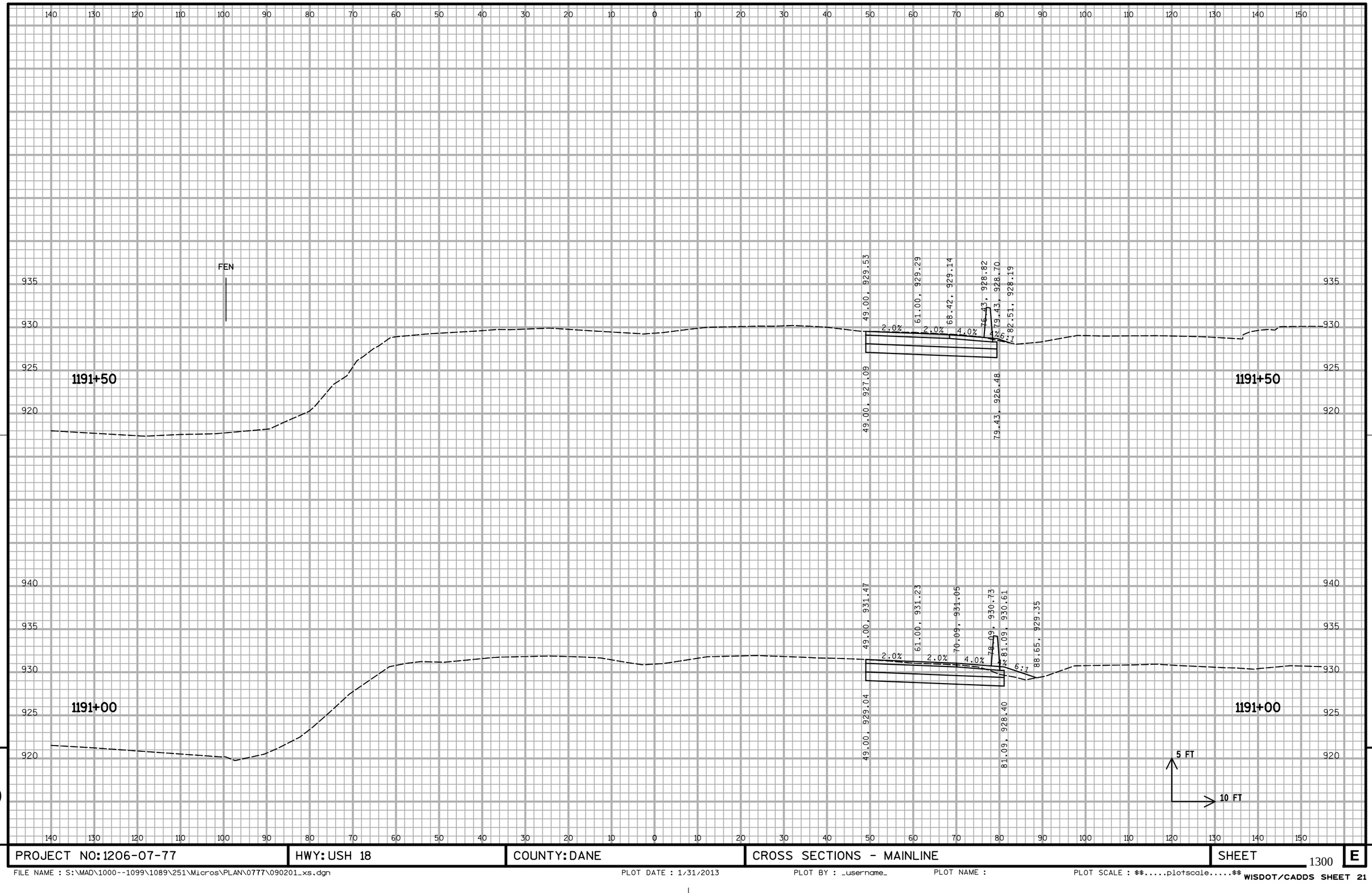
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1299	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

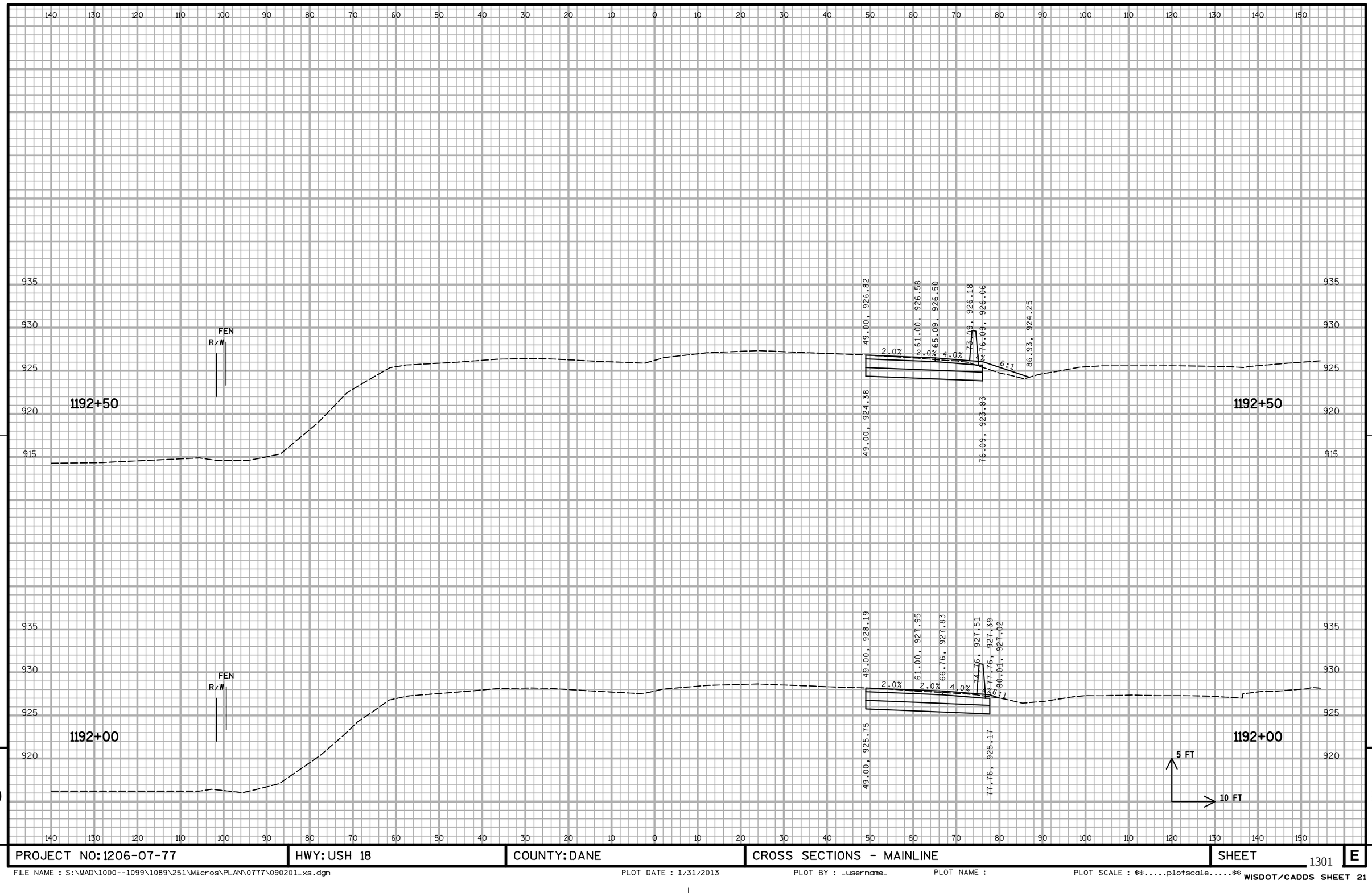
WISDOT/CADDS SHEET 21



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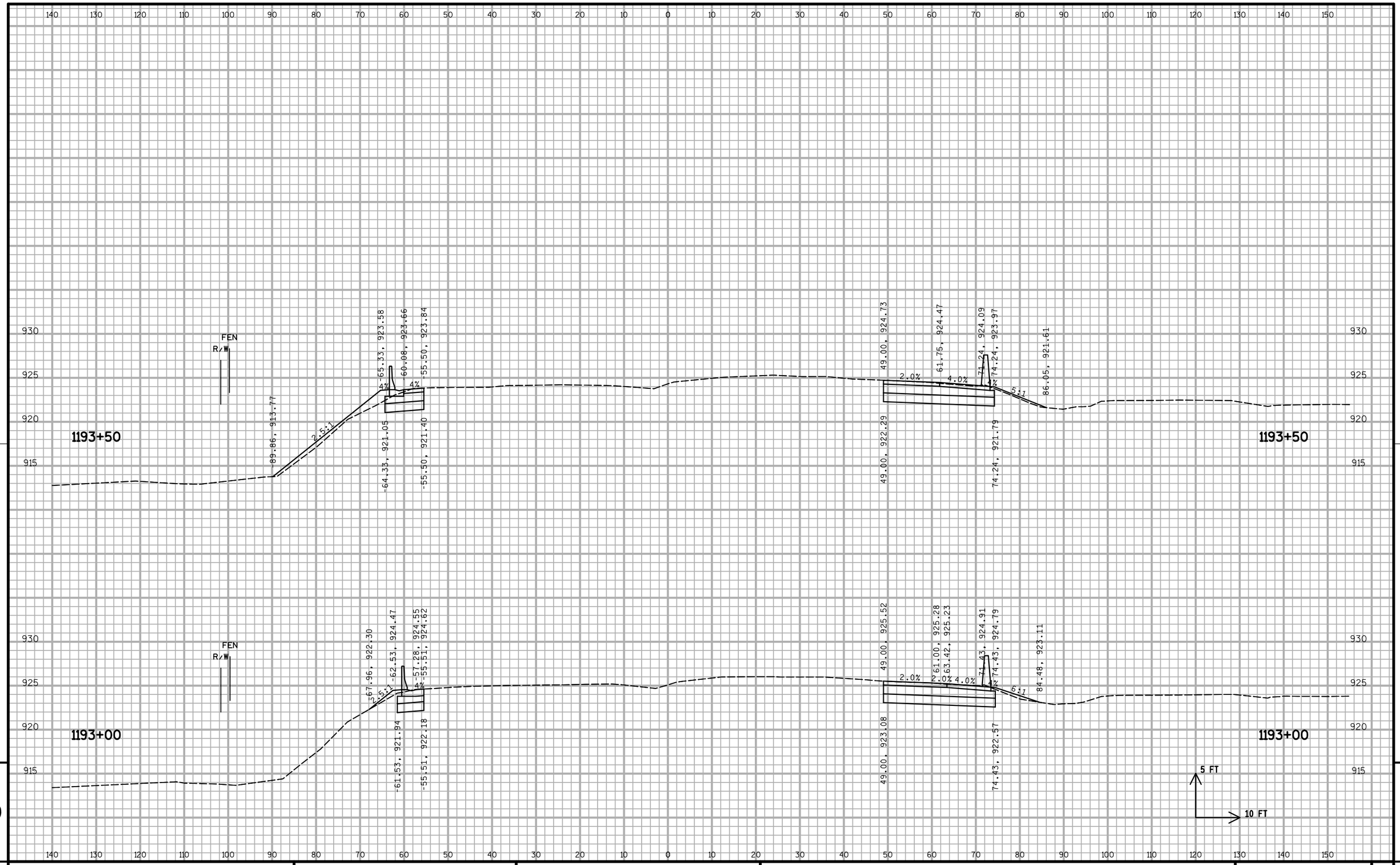
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1300	E



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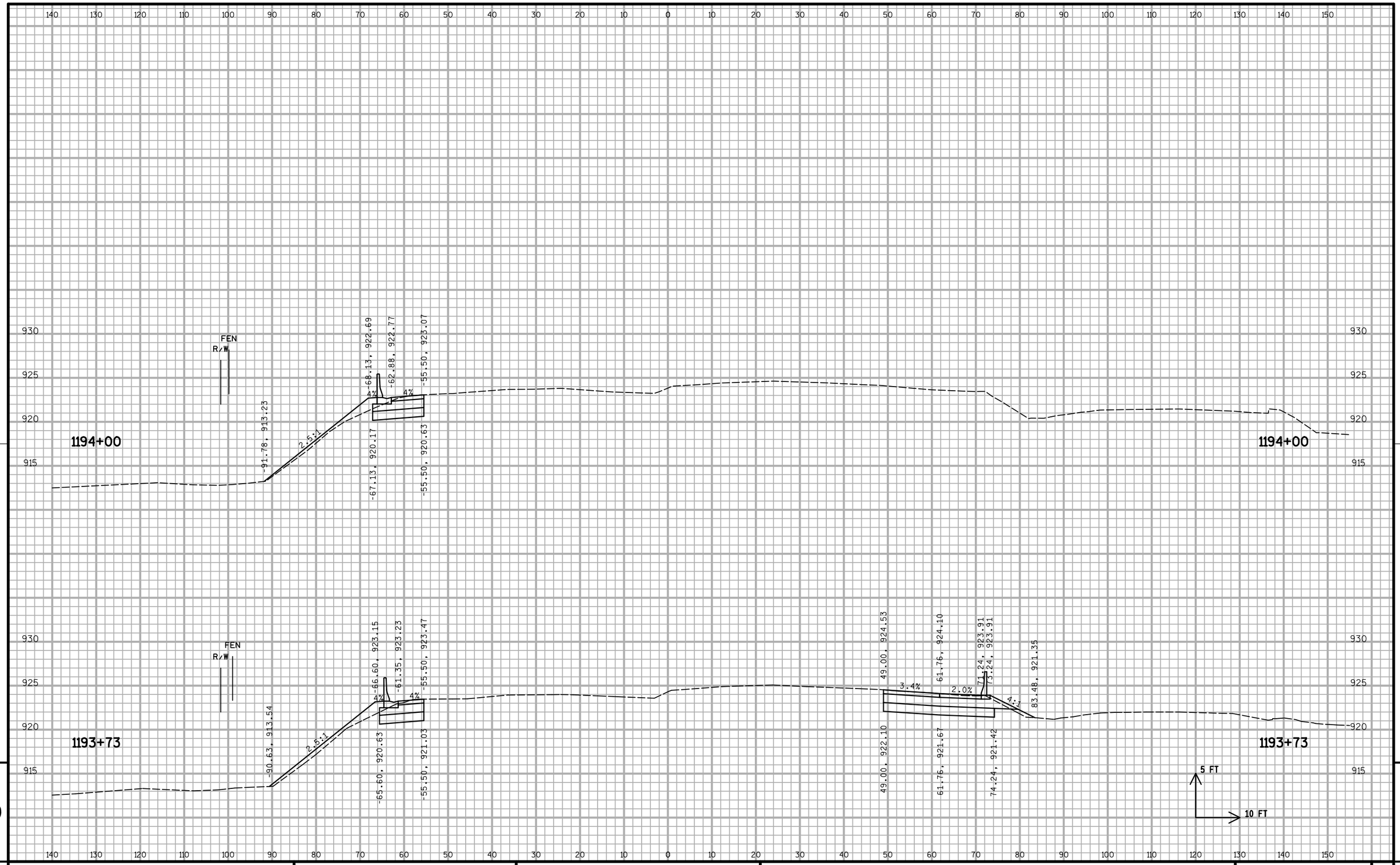
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1301	E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1302	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

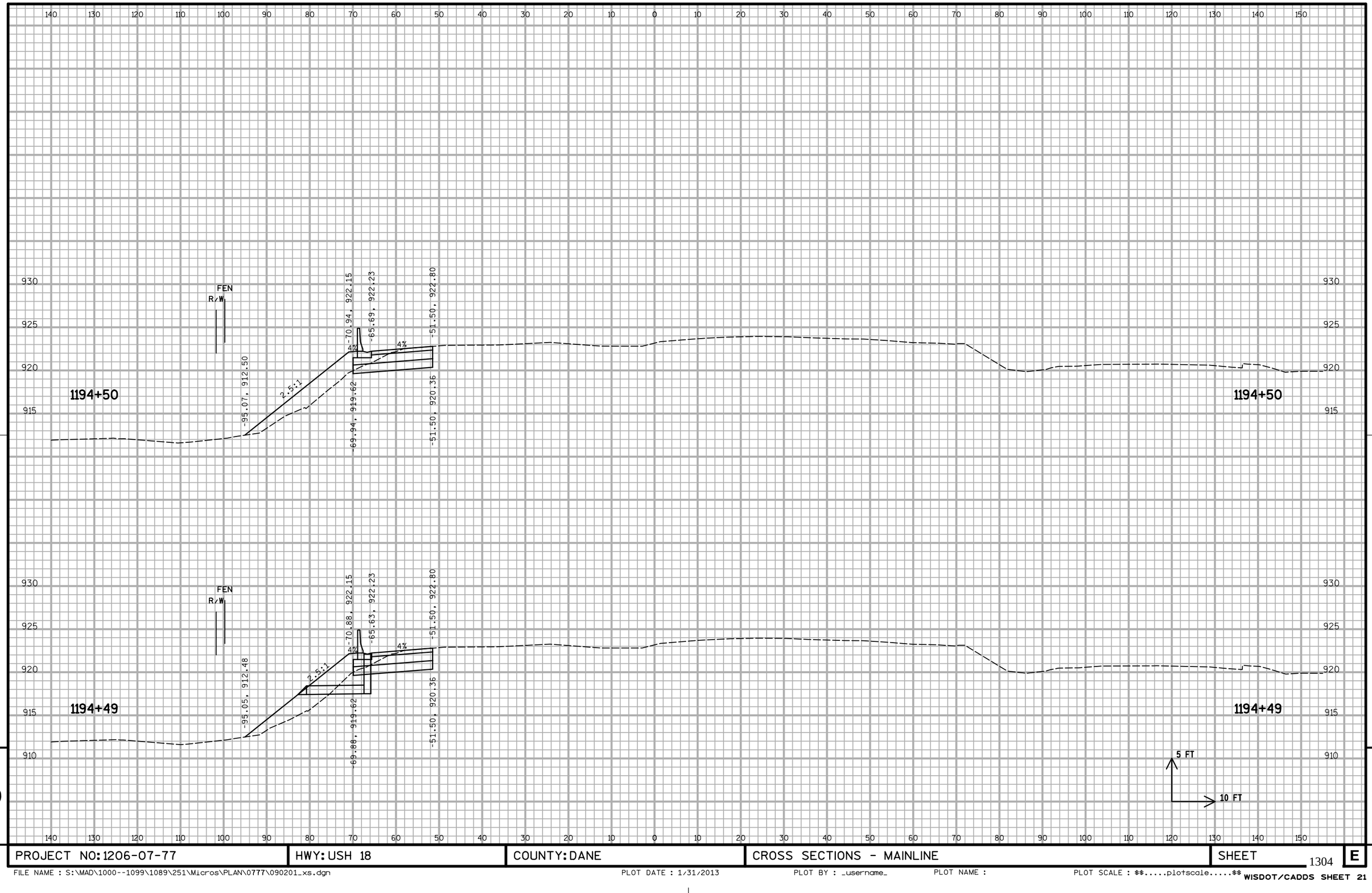
WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1303	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

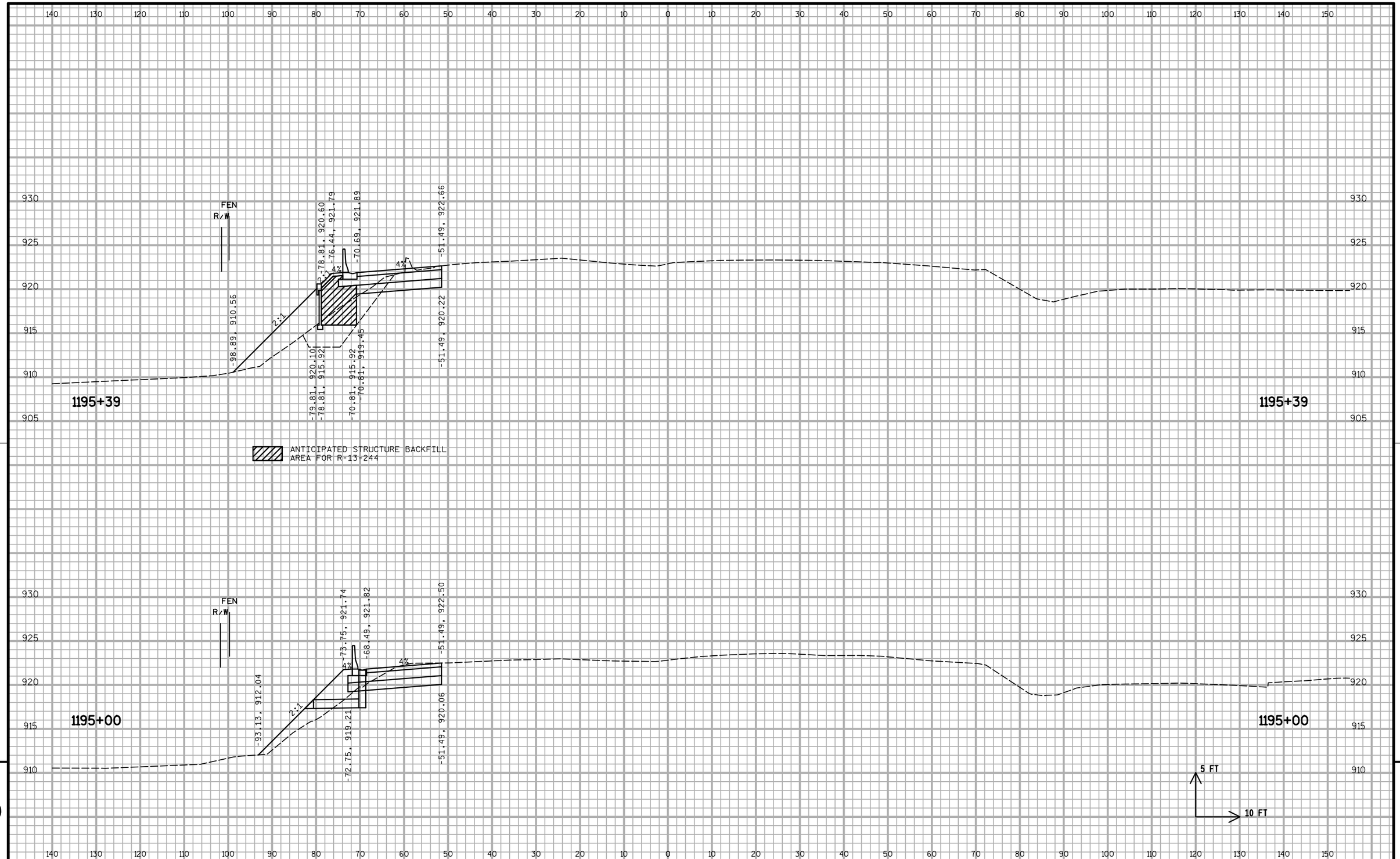


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1304	E

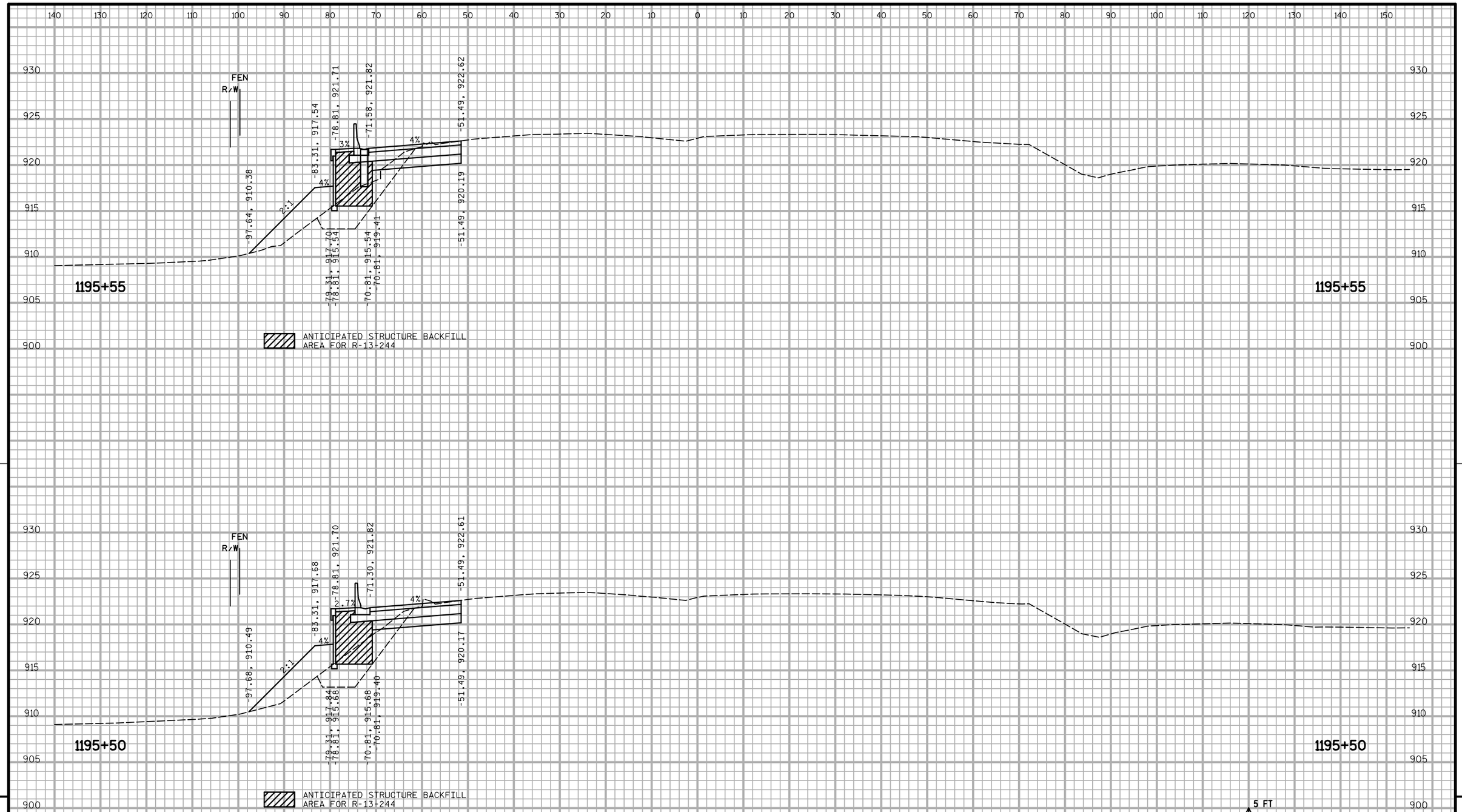
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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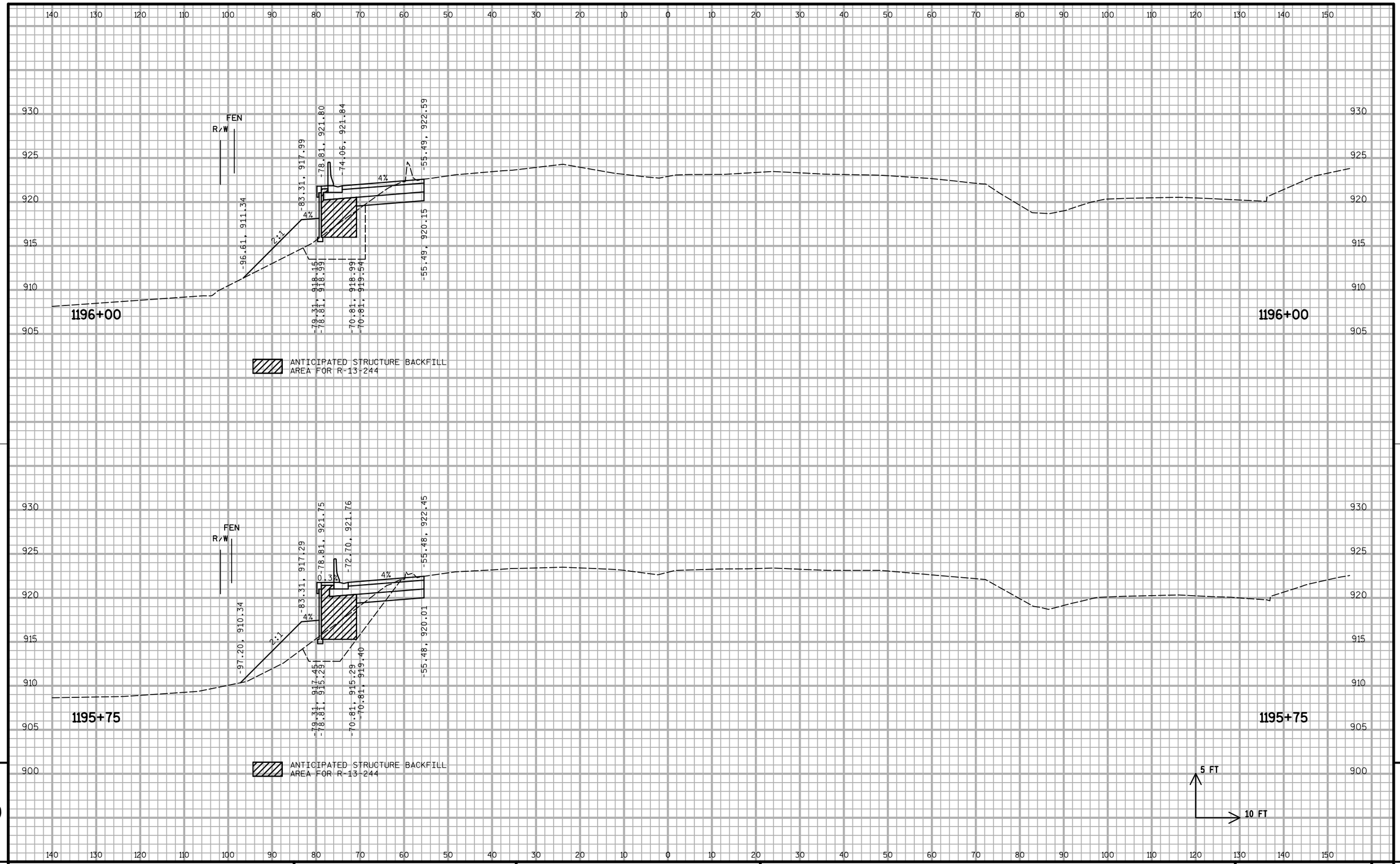
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1305	E



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1306	E

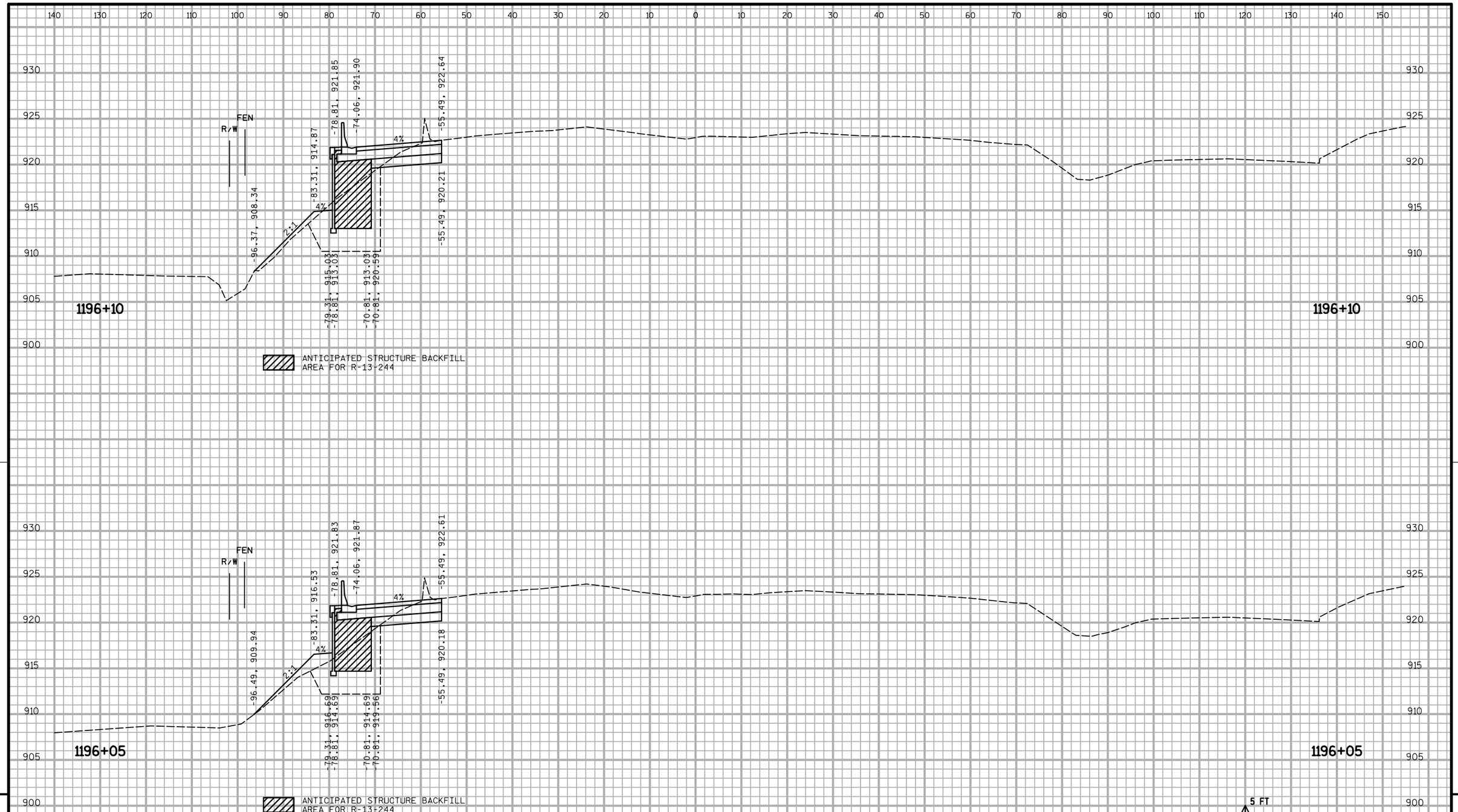
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1307	E

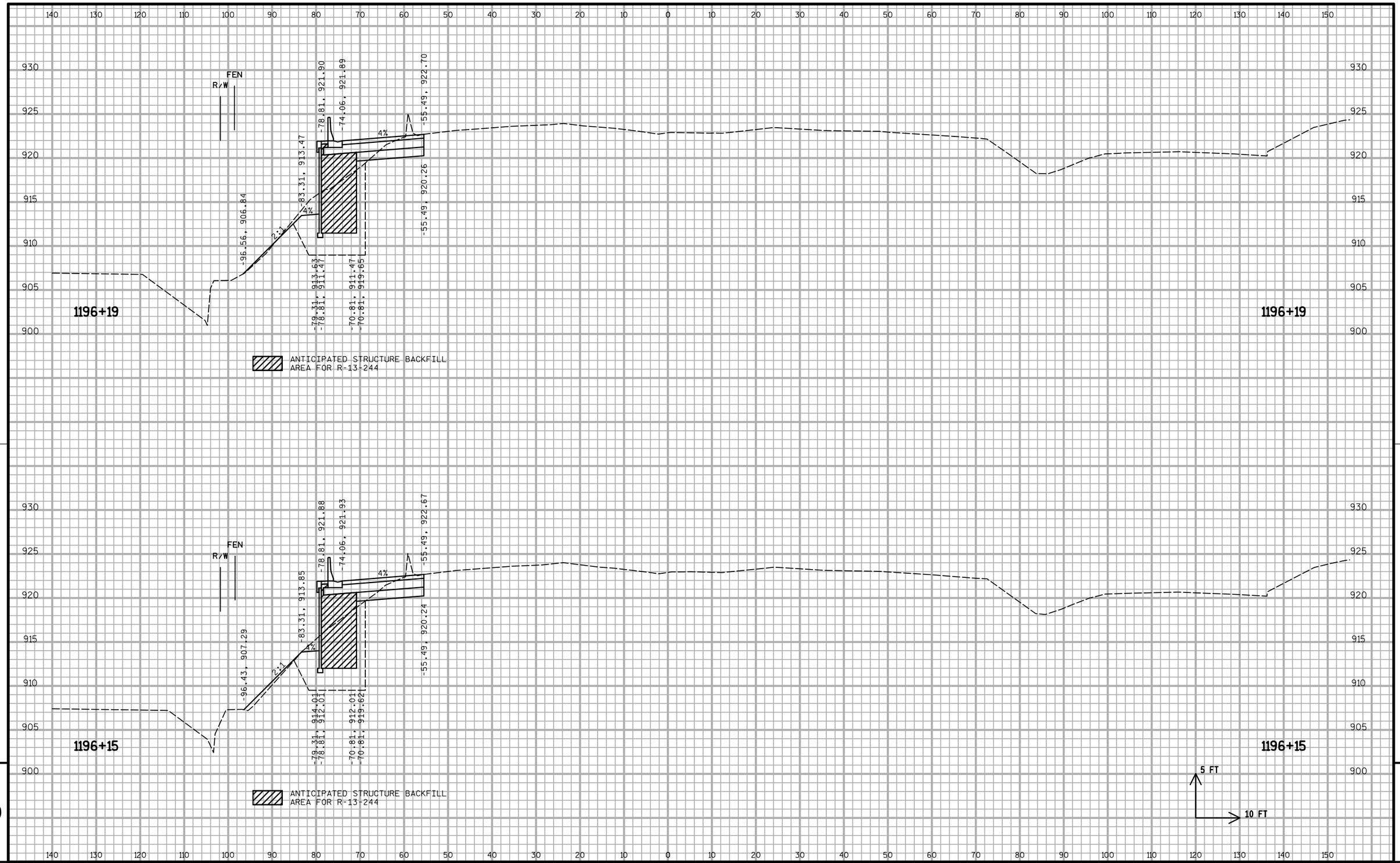
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1308	E

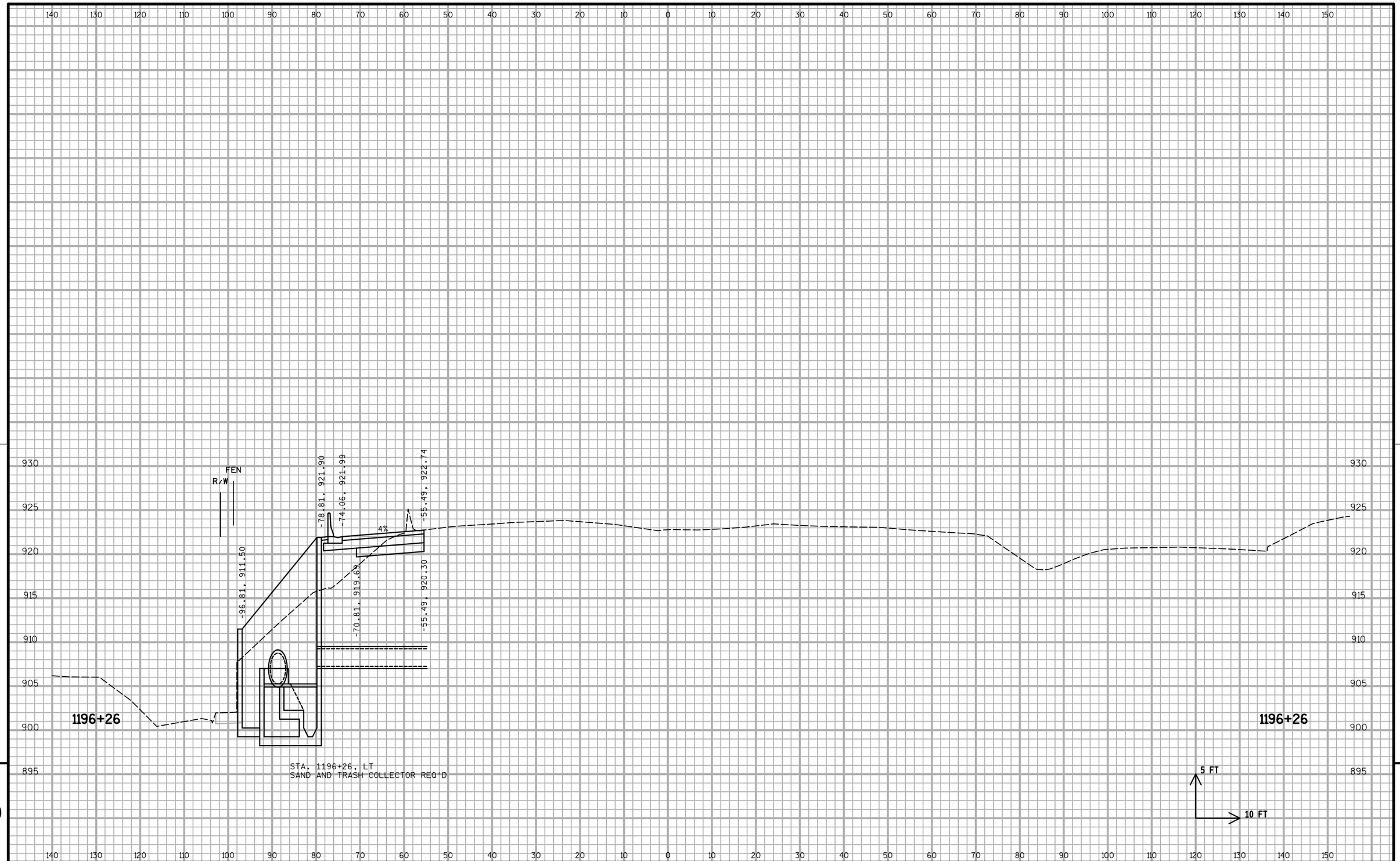


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1309	E

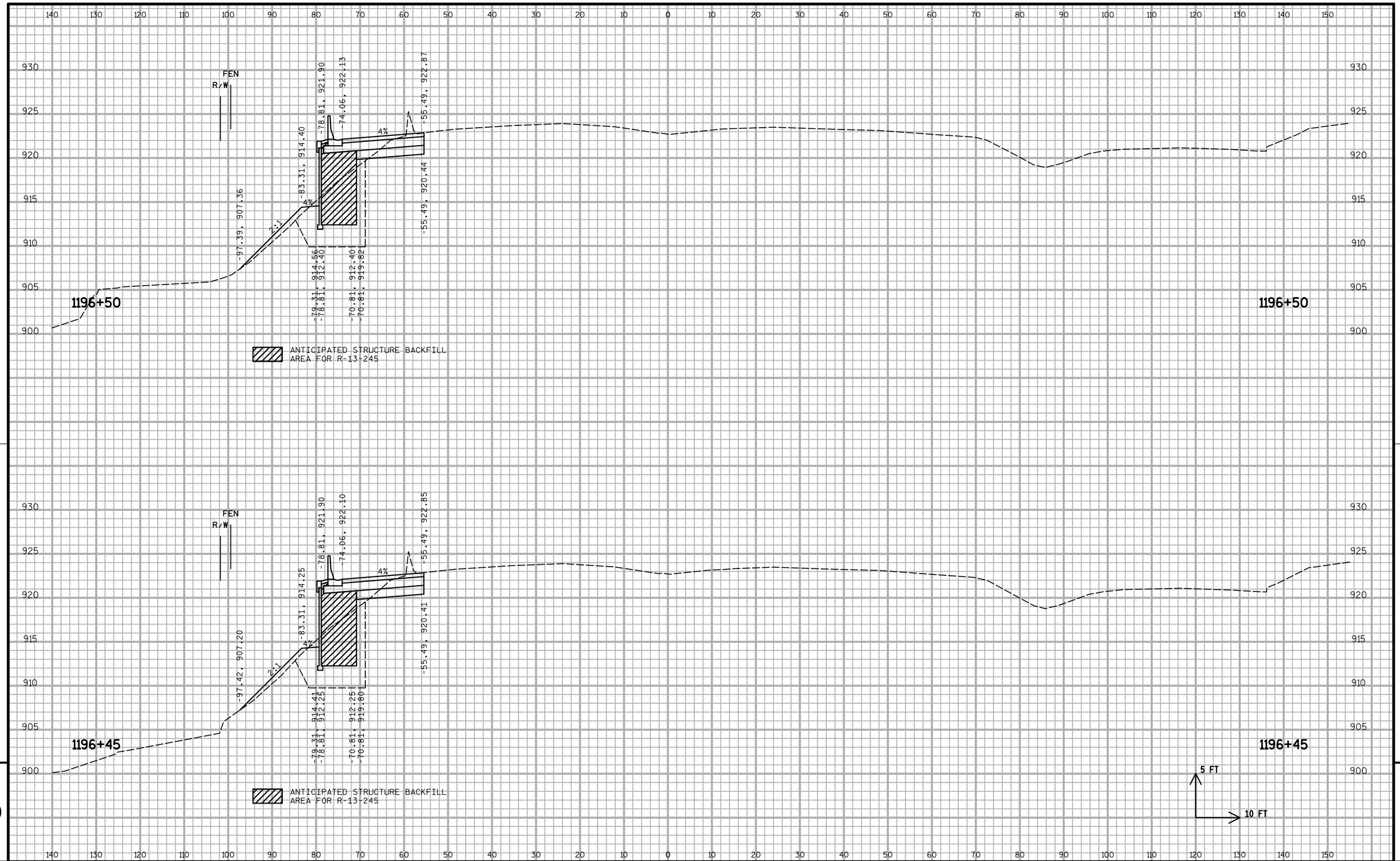
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1310	E



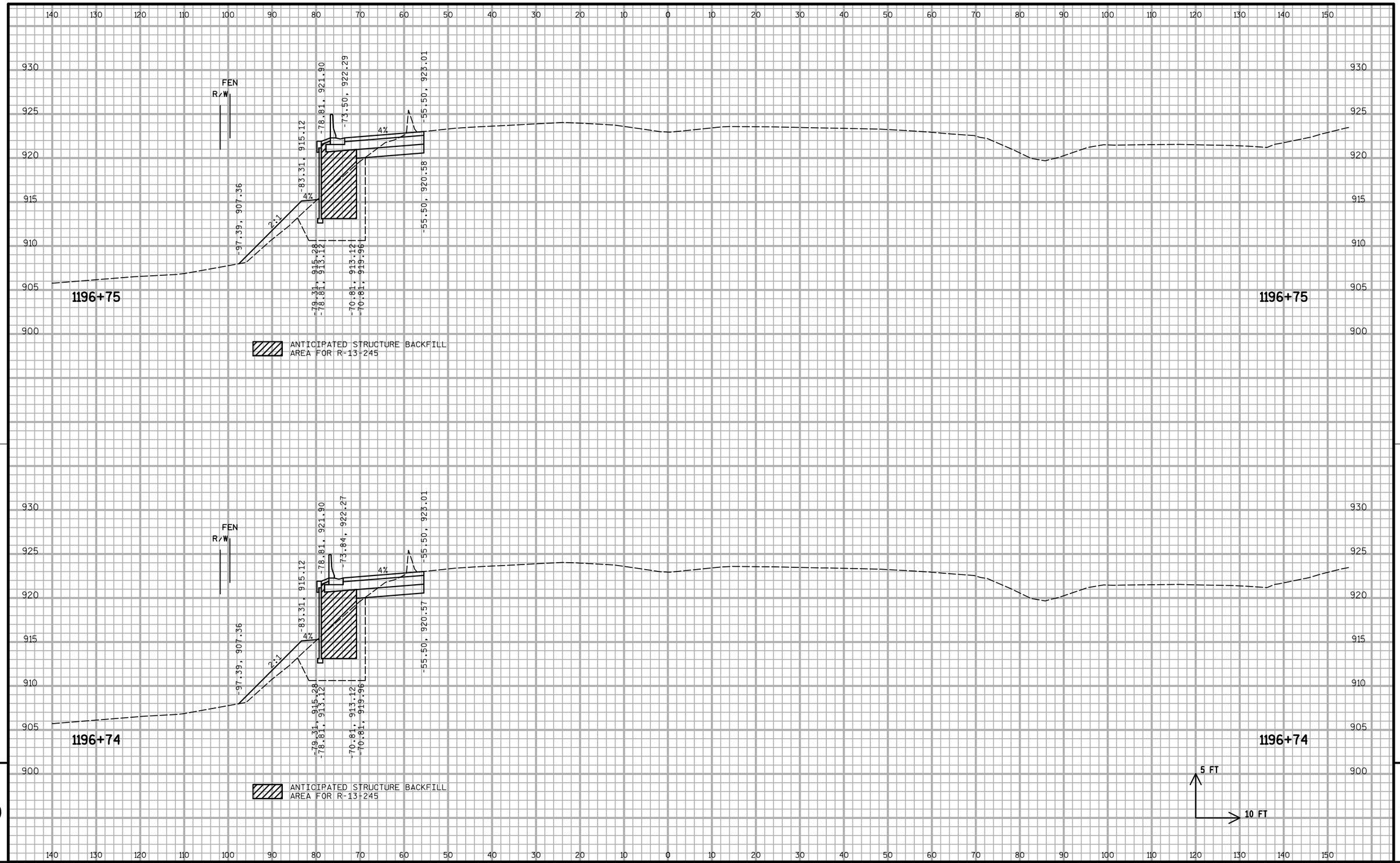
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1311	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

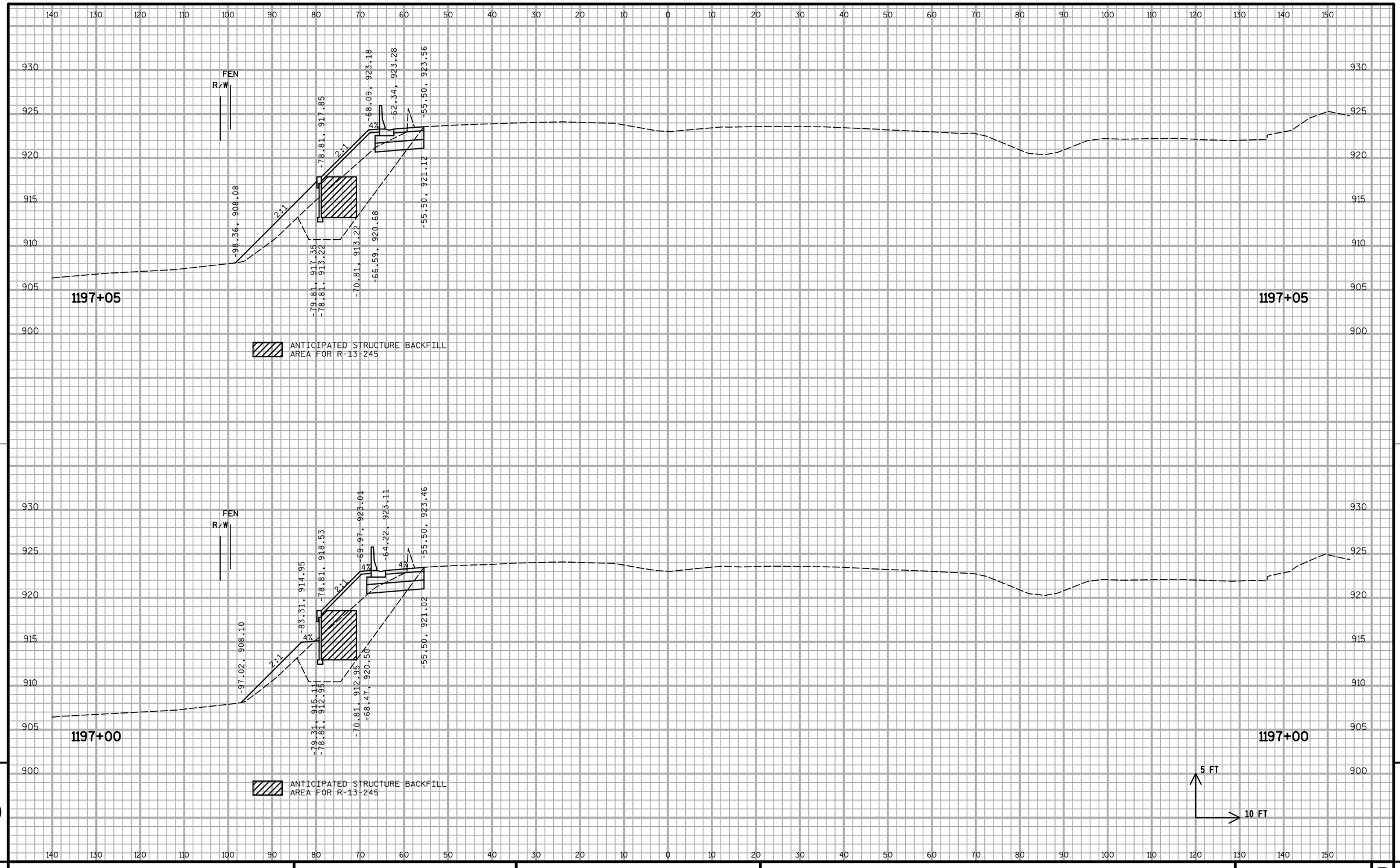
WISDOT/CADDS SHEET 21



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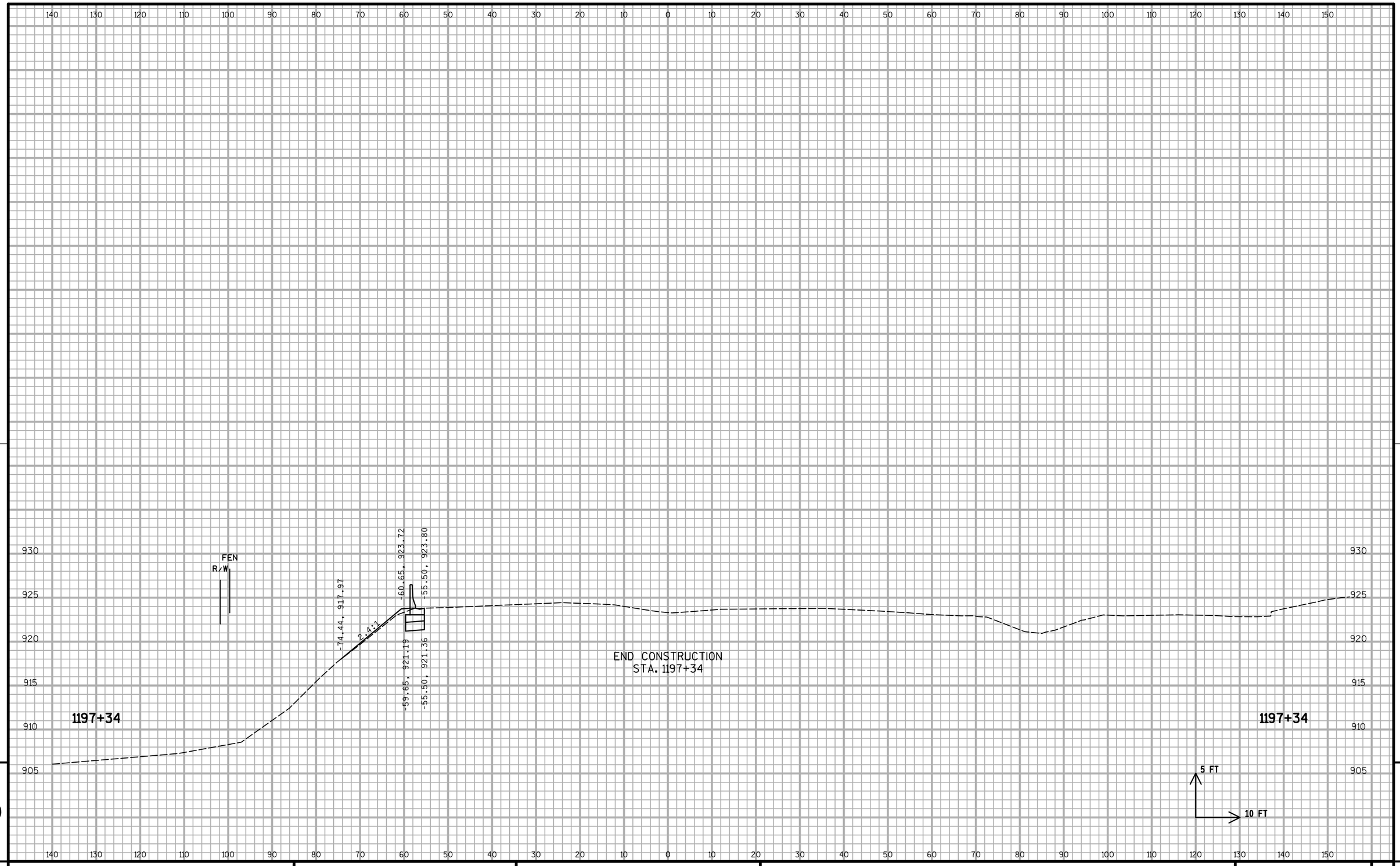
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1312	E



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1313	E



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MAINLINE	SHEET 1314	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090201_xs.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30

1035 1030 1025 1020 1015 1010 1005 1040

R/W

-66.03, 1028.08
-48.53, 1028.43
2.0%
-66.53, 1025.65
-48.53, 1026.01

975+50 VR

975+50 VR

-66.49, 1028.35
-48.99, 1028.70
2.0%
-66.99, 1025.92
-48.99, 1026.28

BEGIN CONSTRUCTION
STA. 975+16 VR

975+16 VR

975+16 VR

5 FT
10 FT

9

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET 1315	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30

1035
1030
1025
1020
1015
1010
1005

R/W

976+50 VR

-64.05, 1026.20
-64.55, 1023.77
2.0%
-46.55, 1026.55
-46.55, 1024.13

976+50 VR

R/W

-64.92, 1027.12
-65.42, 1023.69
2.0%
-47.42, 1027.47
-47.42, 1024.05

976+00 VR

976+00 VR

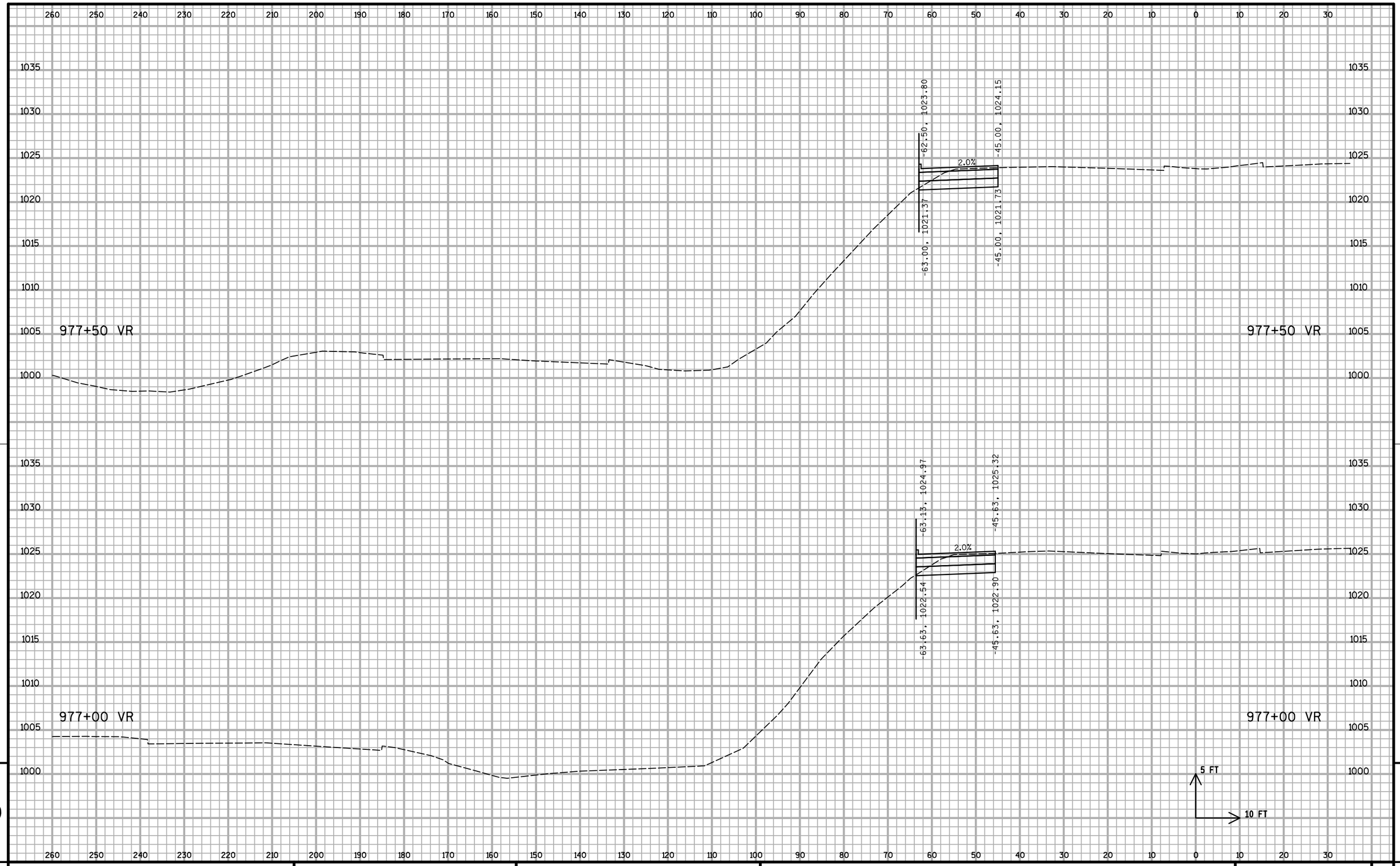
5 FT
10 FT

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET 1316	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

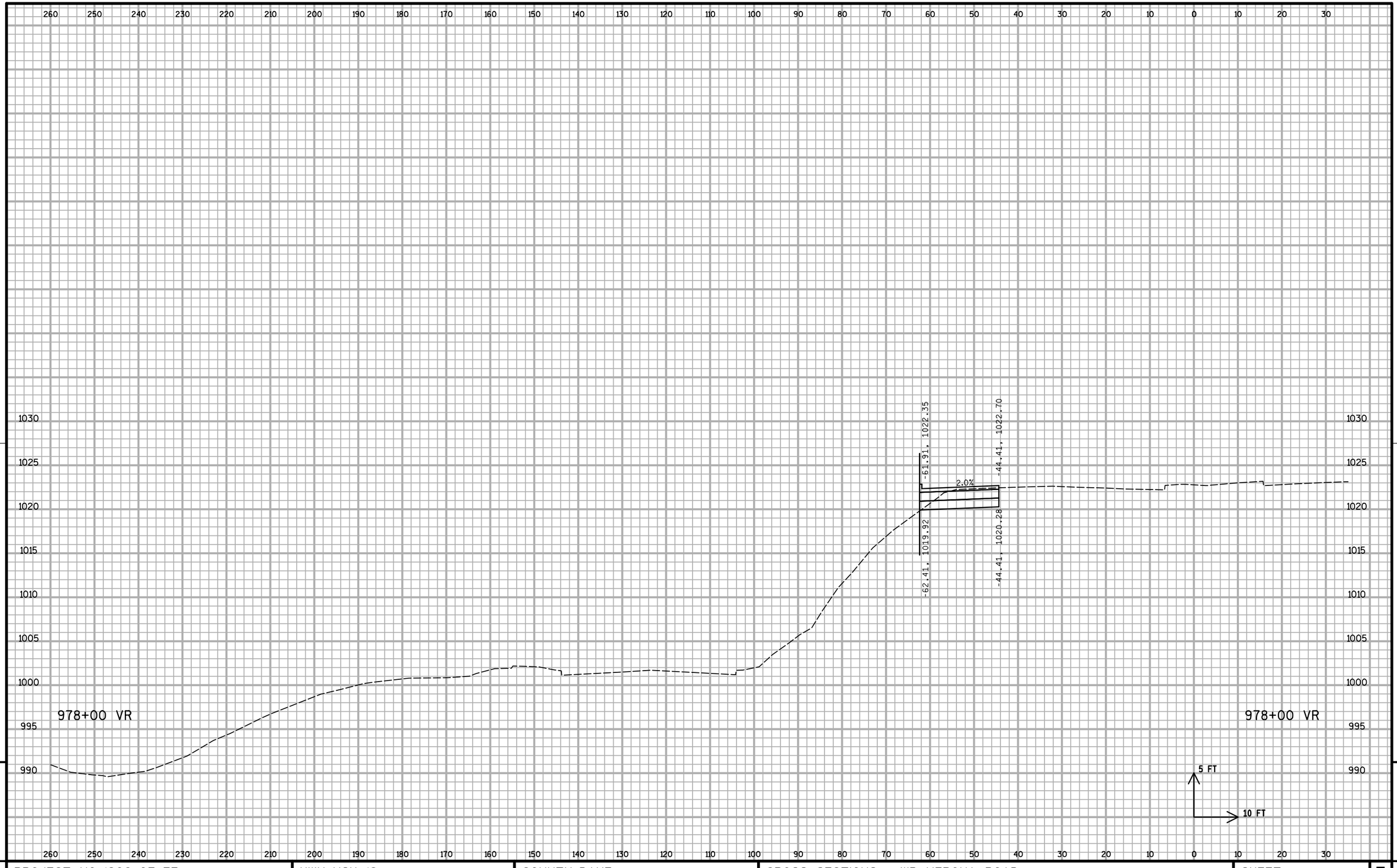


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET 1317	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

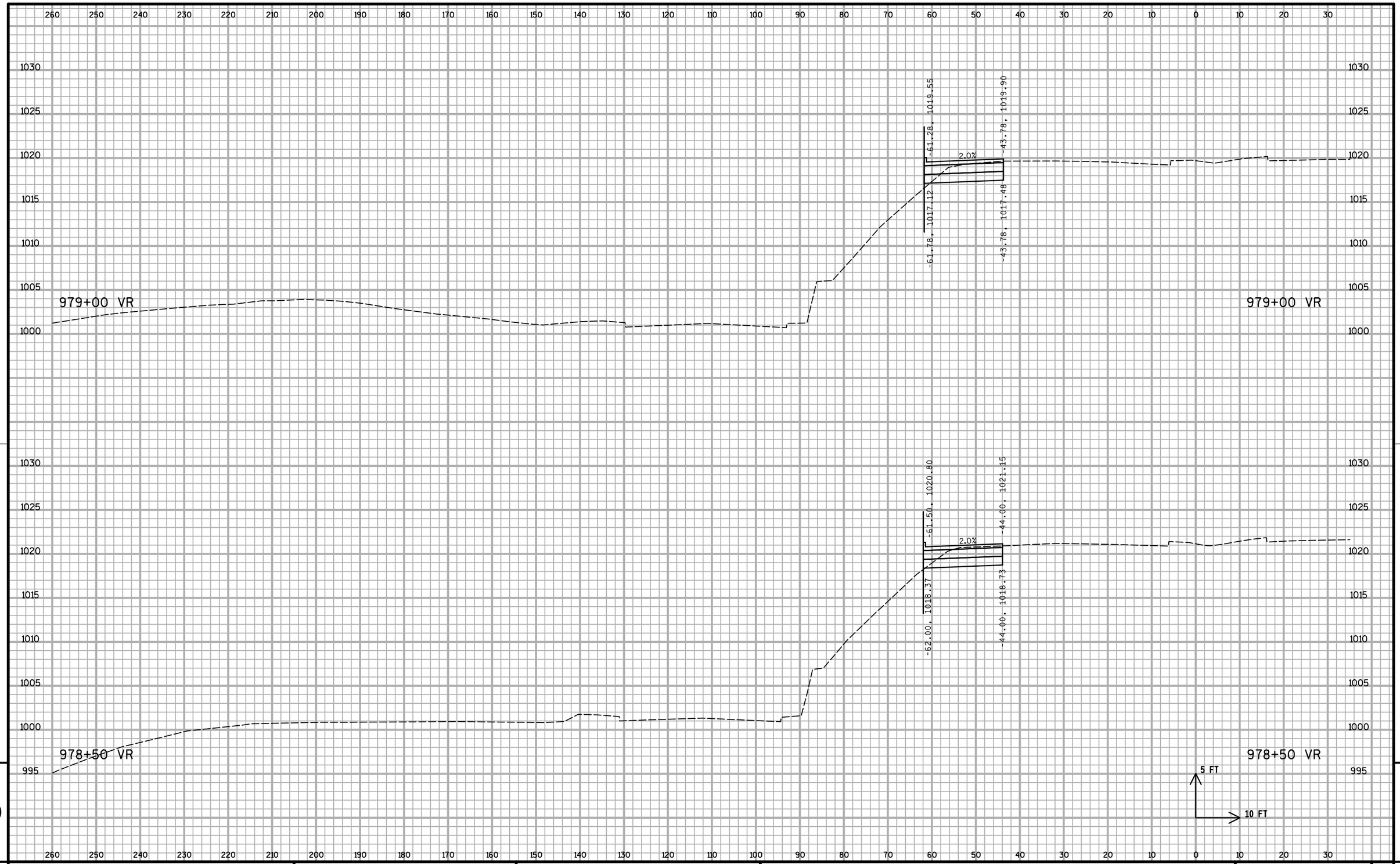


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET 1319	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30

1025
1020
1015
1010
1005
1000

980+00 VR

-61.02, 1016.47
-43.52, 1016.82
2.0%
-61.52, 1014.04
-43.52, 1014.40

980+00 VR

979+50 VR

-60.98, 1018.05
-43.48, 1018.40
2.0%
-61.48, 1015.63
-43.48, 1015.99

979+50 VR

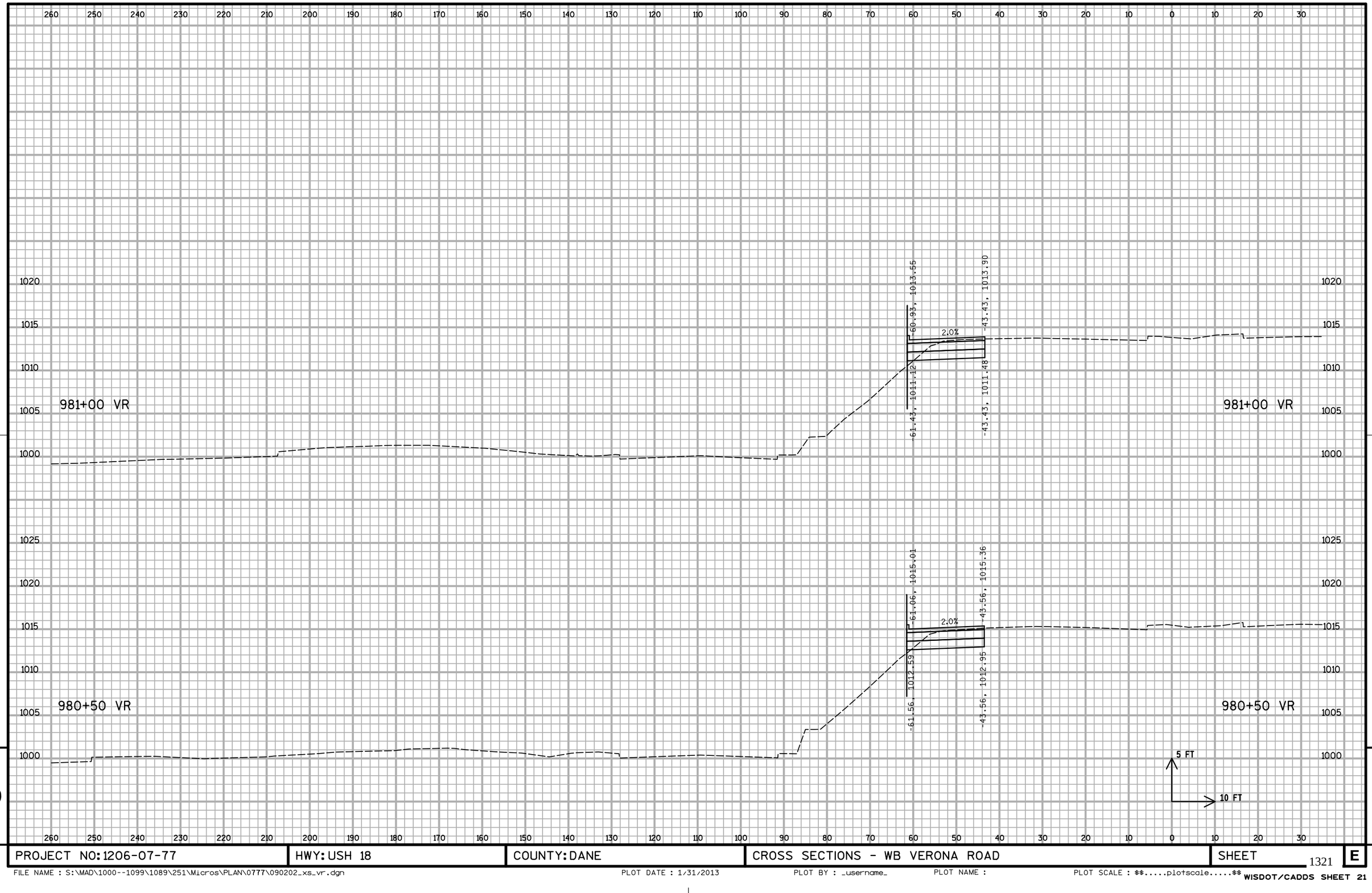
5 FT
10 FT

9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET 1320	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

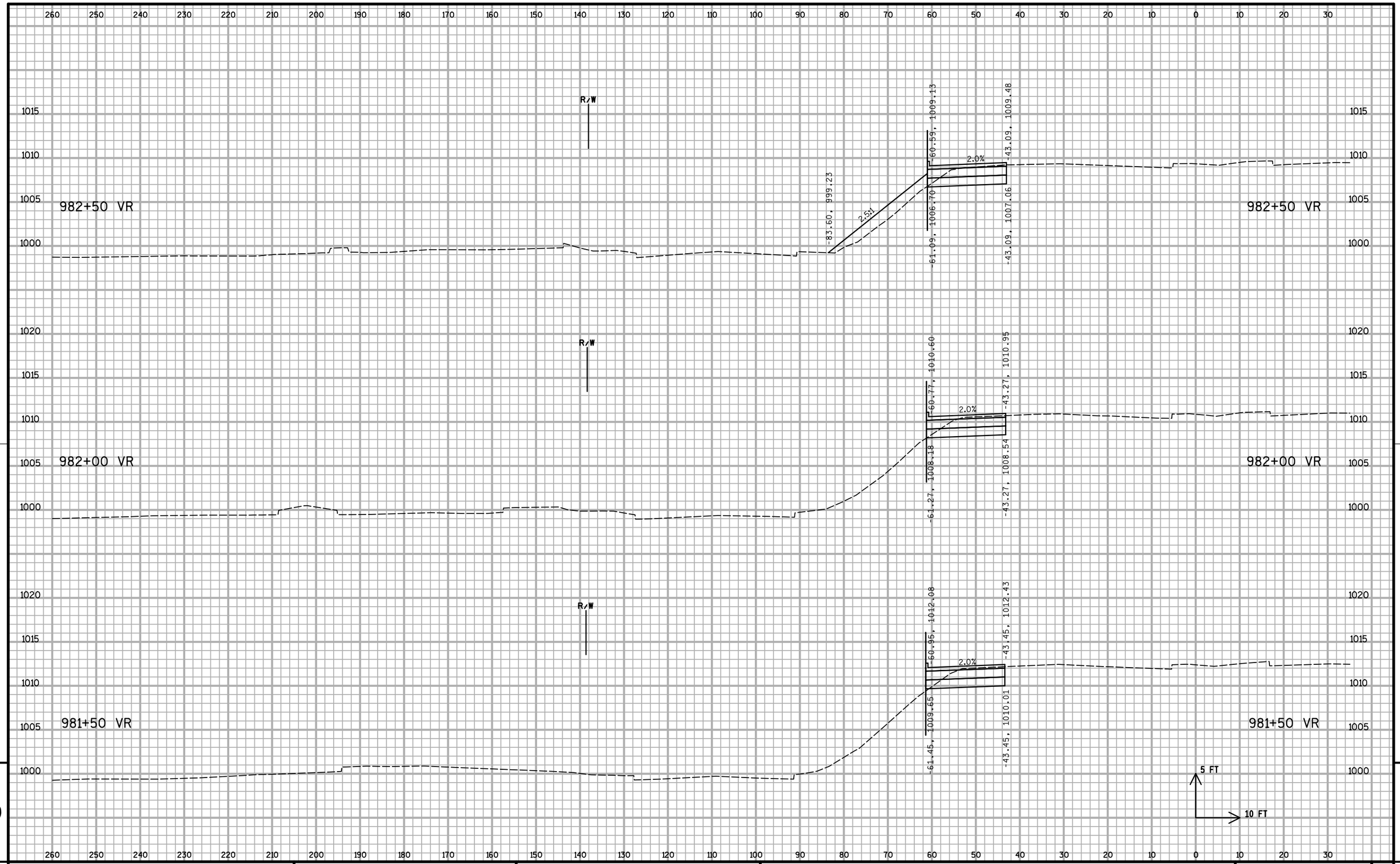


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET 1321	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET	E

1322

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30

1015
1010
1005
1000
995

983+50 VR

R/W

-89.97, 998.49
3:1
-71.51, 1004.65
-67.98, 1003.72
-65.98, 1006.17
2.0%
-42.83, 1006.64
-42.83, 1004.22

983+50 VR

1015
1010
1005
1000

983+00 VR

R/W R/W

-84.47, 999.23
2.5:1
-67.20, 1006.14
-64.47, 1005.20
-62.47, 1007.65
2.0%
-43.03, 1008.04
-43.03, 1005.62

983+00 VR

5 FT
10 FT

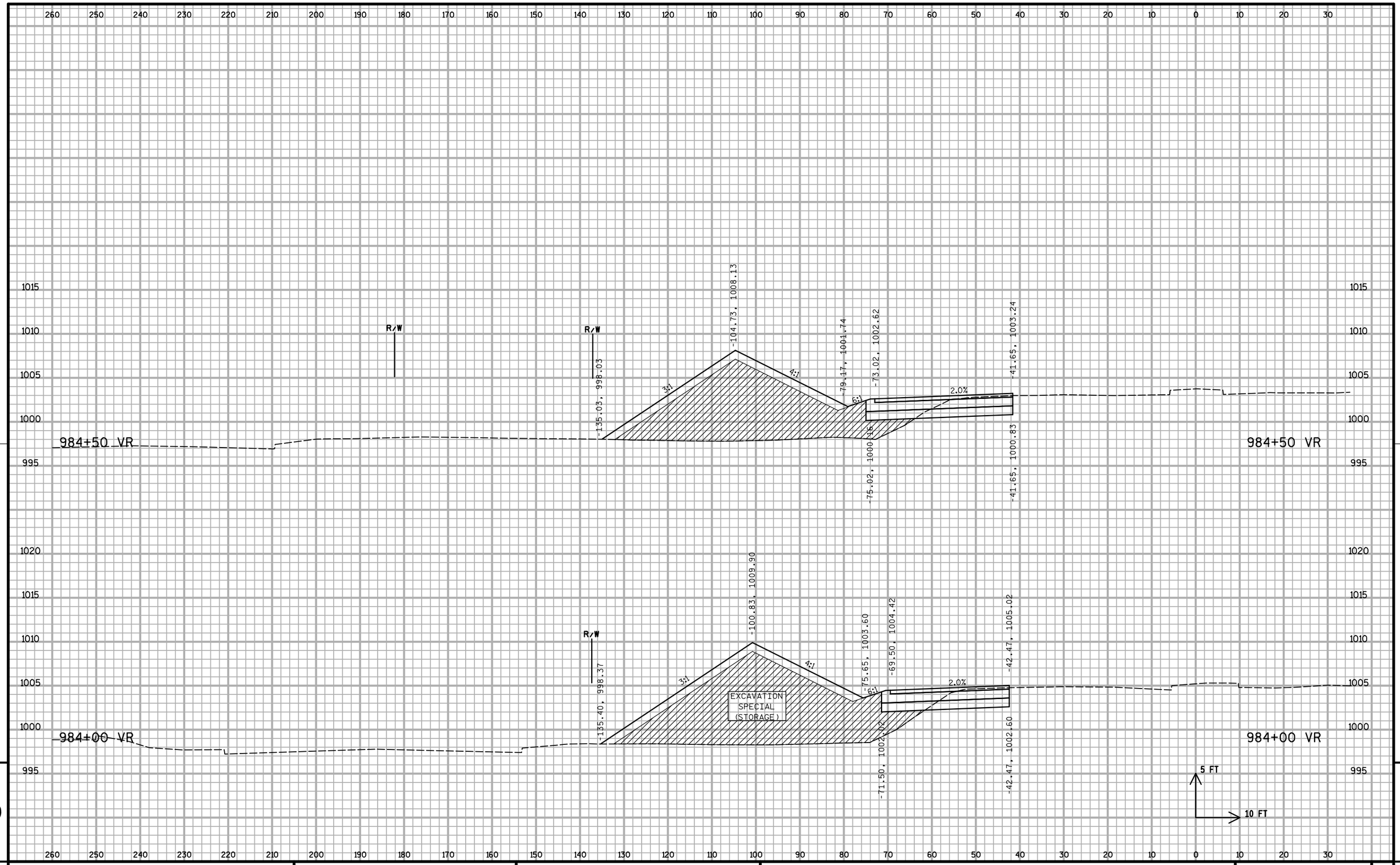
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9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET 1323	E

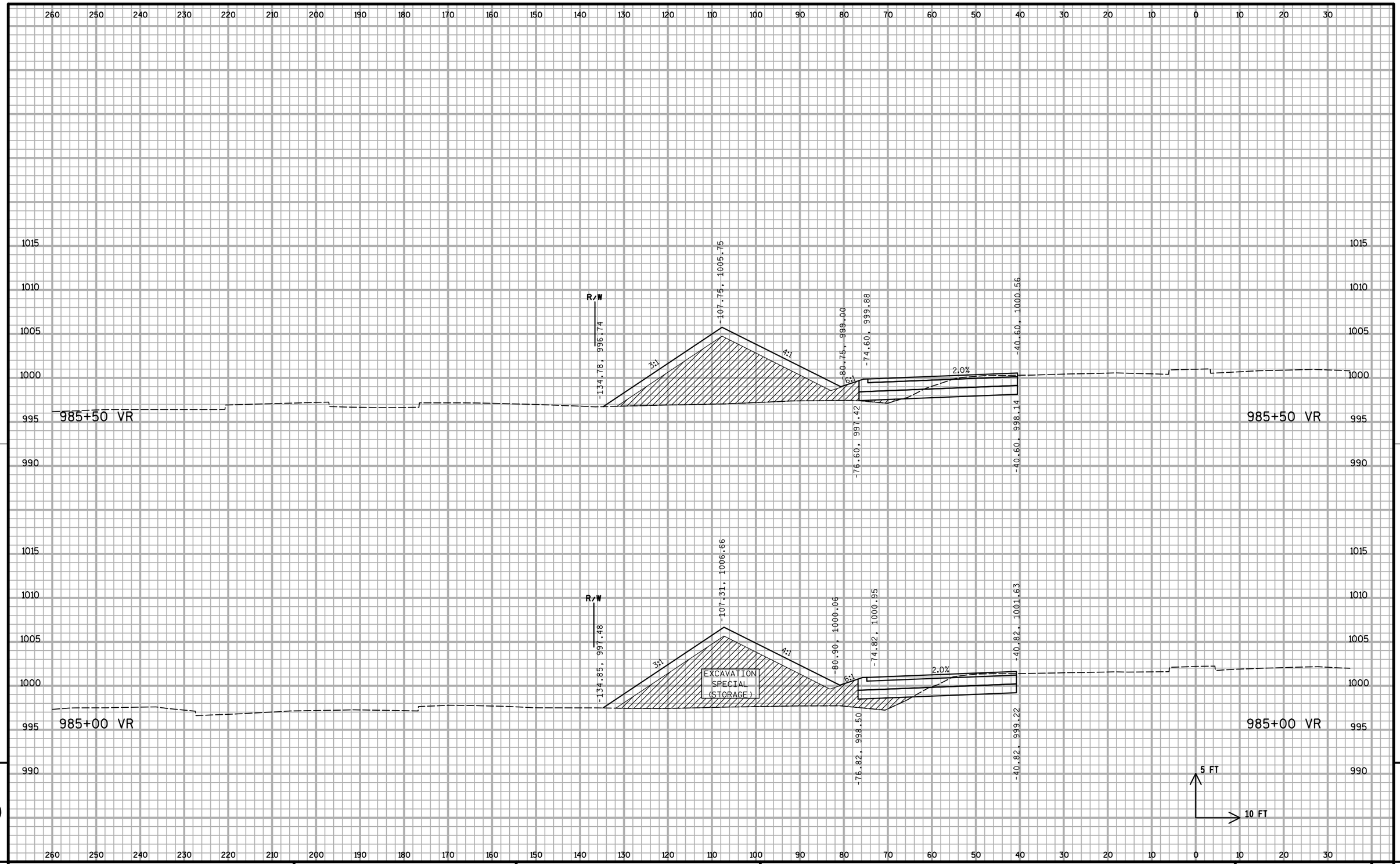
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WISDOT/CADDS SHEET 21



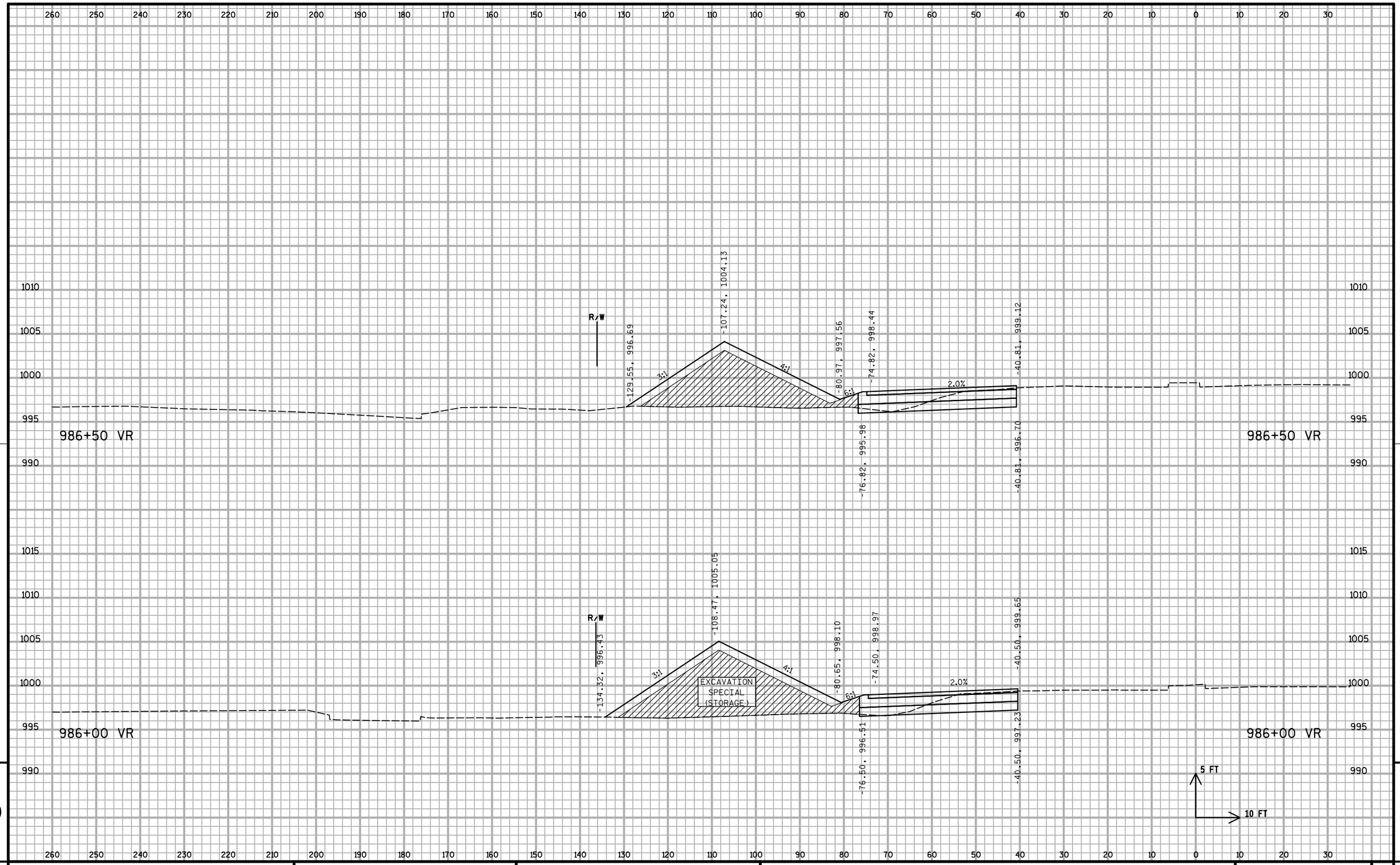
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET 1325	E

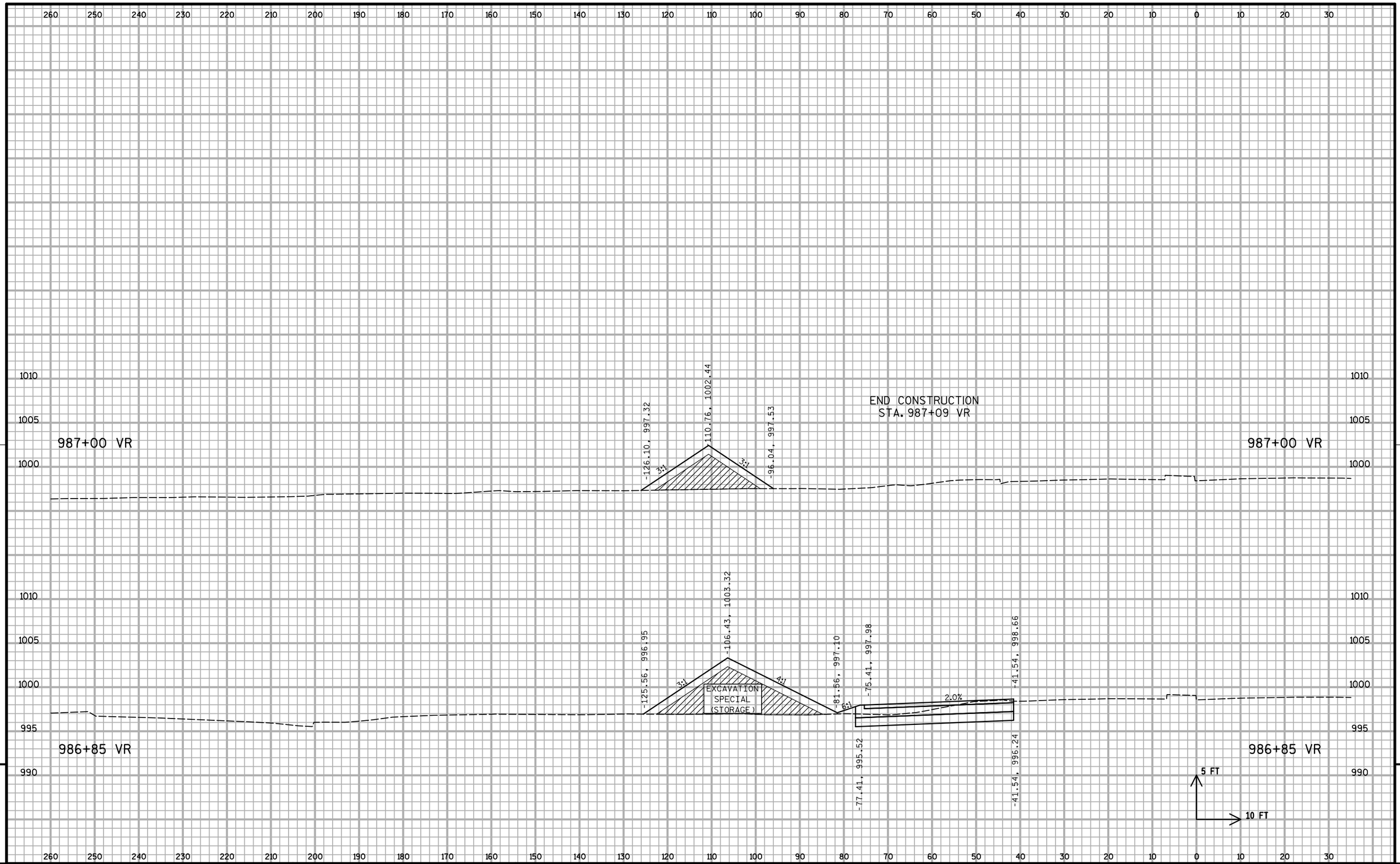
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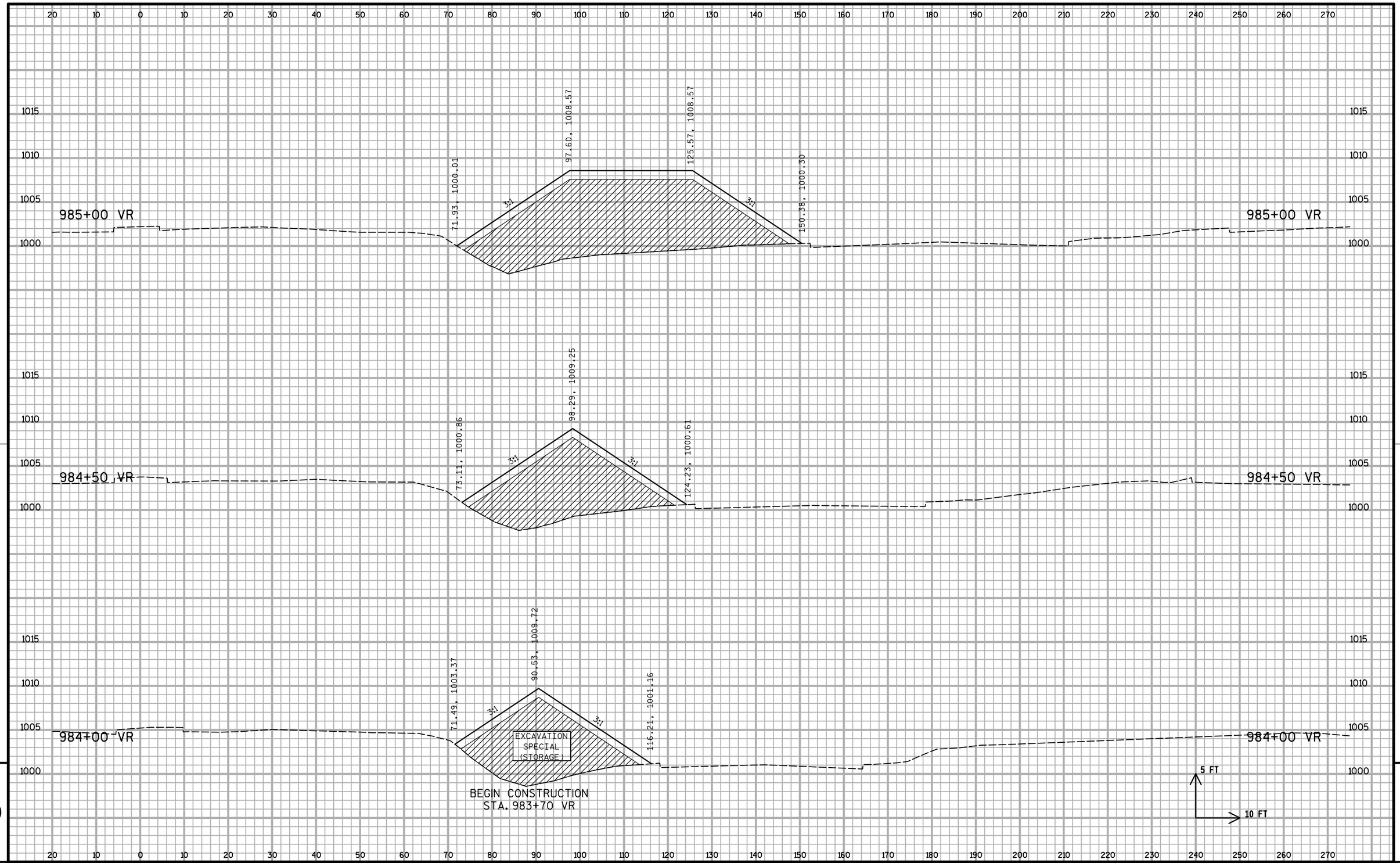


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WB VERONA ROAD	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

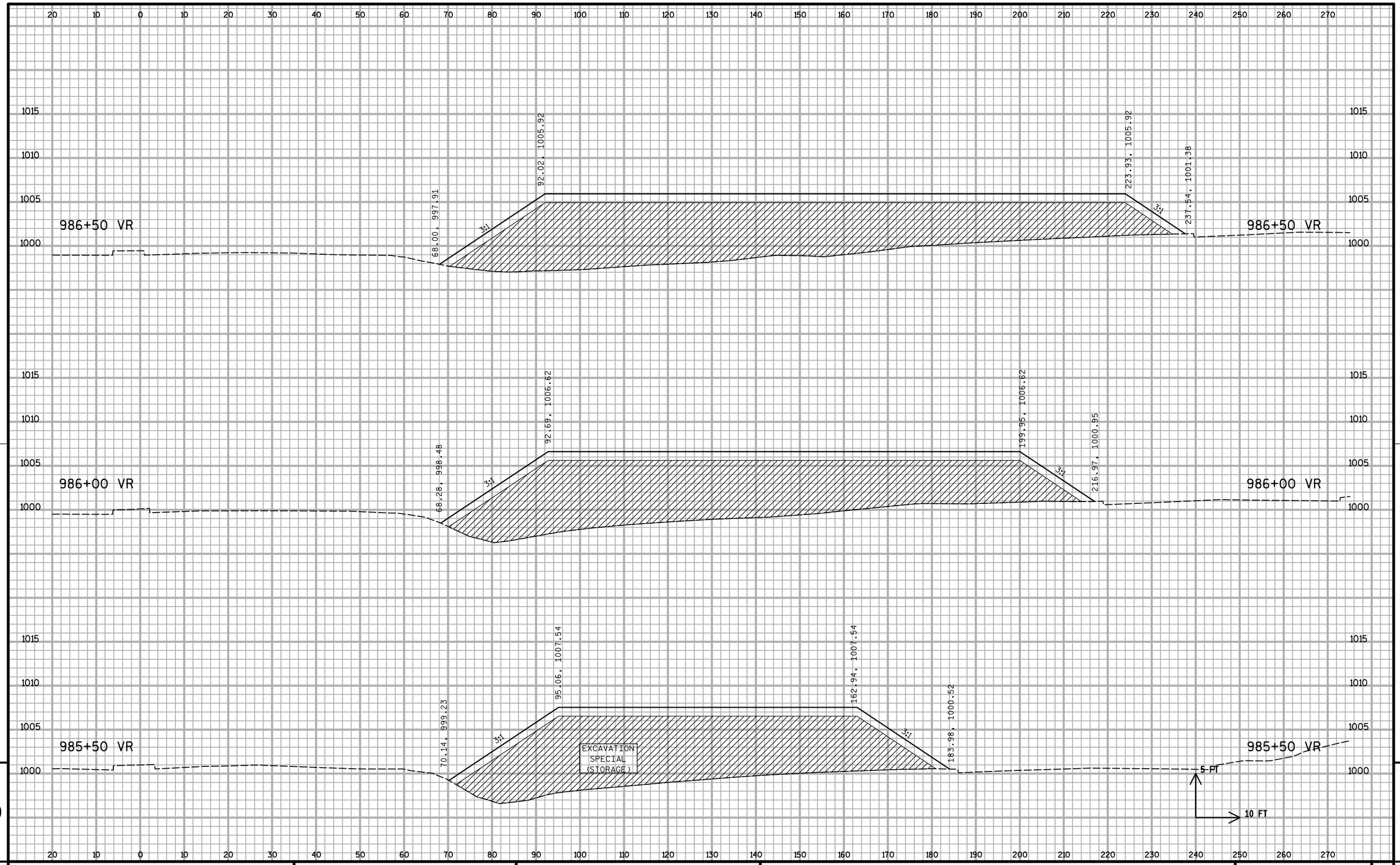

END CONSTRUCTION
STA. 987+09 VR
987+00 VR
987+00 VR
986+85 VR
986+85 VR
-126.10, 997.32
110.76, 1002.44
-96.04, 997.53
-125.56, 996.95
-106.43, 1003.32
-81.56, 997.10
-75.41, 997.98
-41.54, 998.66
-77.41, 995.52
-41.54, 996.24
EXCAVATION SPECIAL (STORAGE)
3:1
4:1
6:1
2.0%
5 FT
10 FT
1010
1005
1000
995
990



9 9

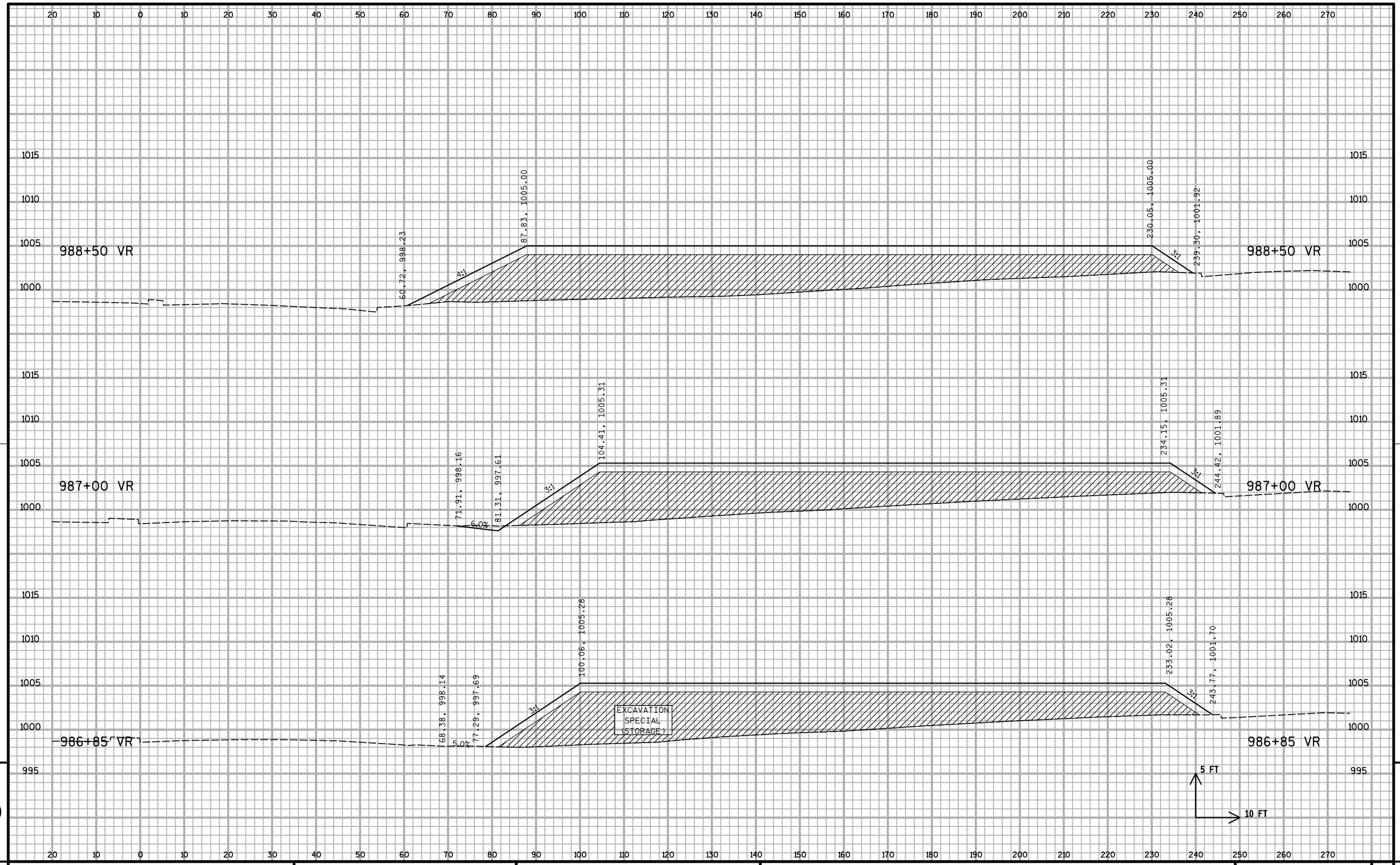
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - EB VERONA ROAD	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202a_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



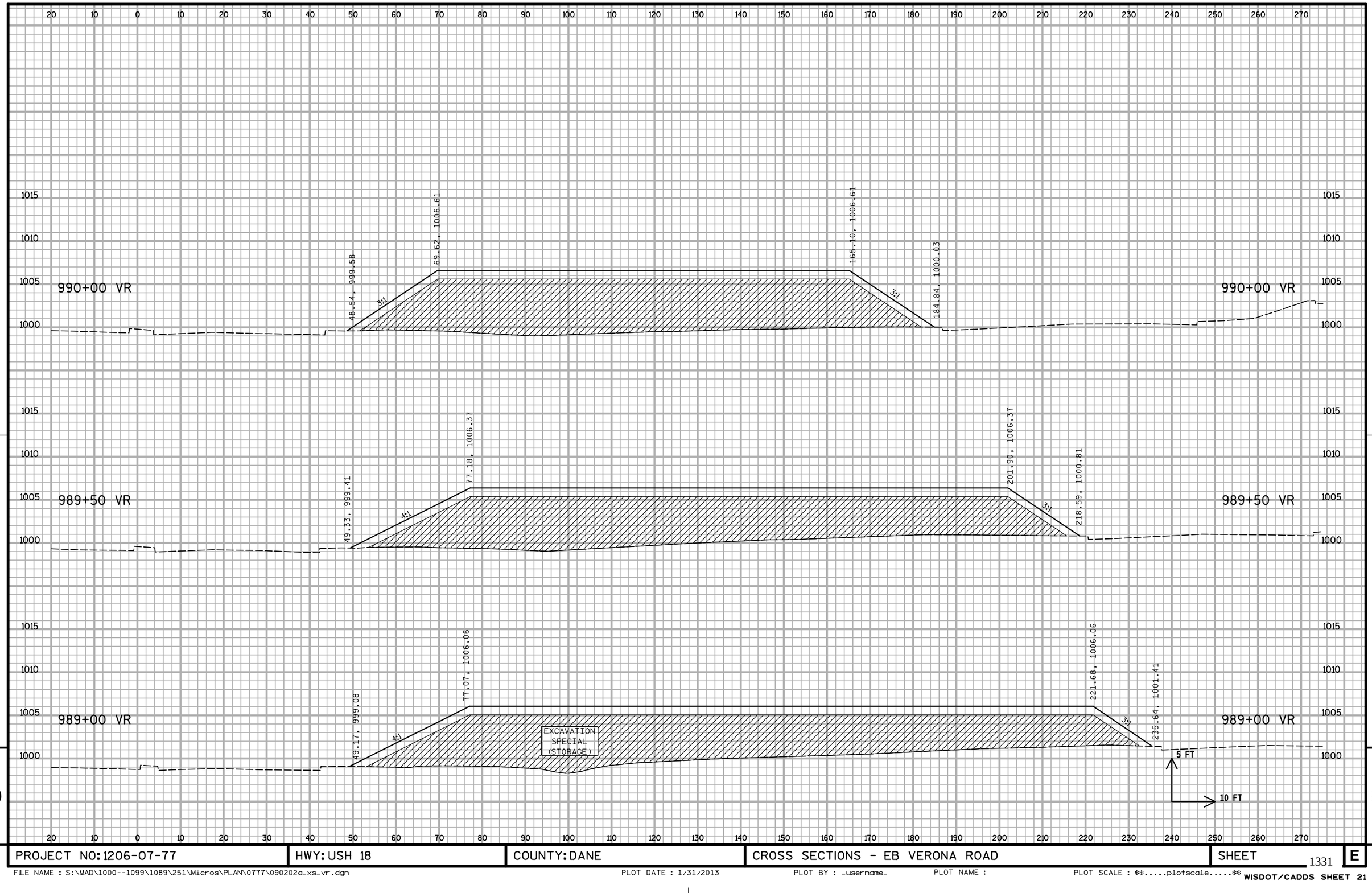
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - EB VERONA ROAD	SHEET 1329	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202a_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



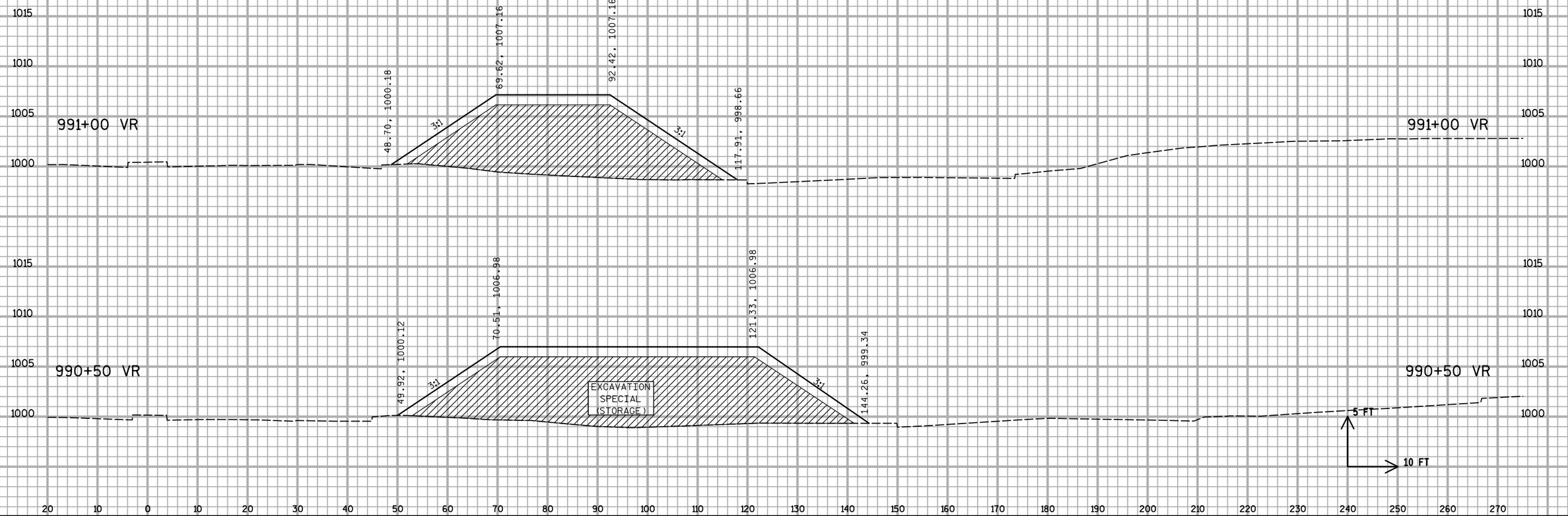
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - EB VERONA ROAD	SHEET 1330	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202a_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



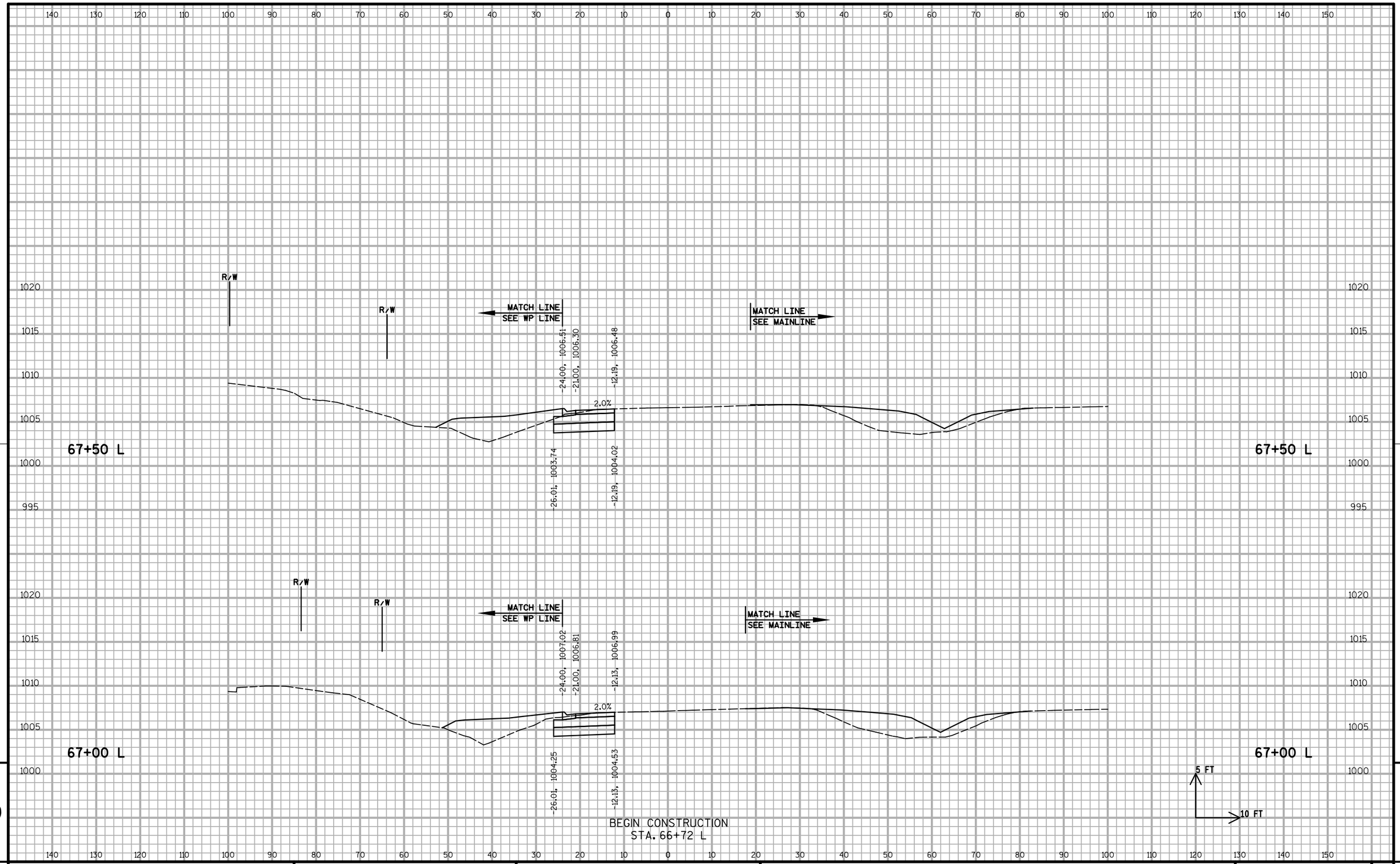
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - EB VERONA ROAD	SHEET 1331	E

END CONSTRUCTION
STA. 991+50 VR



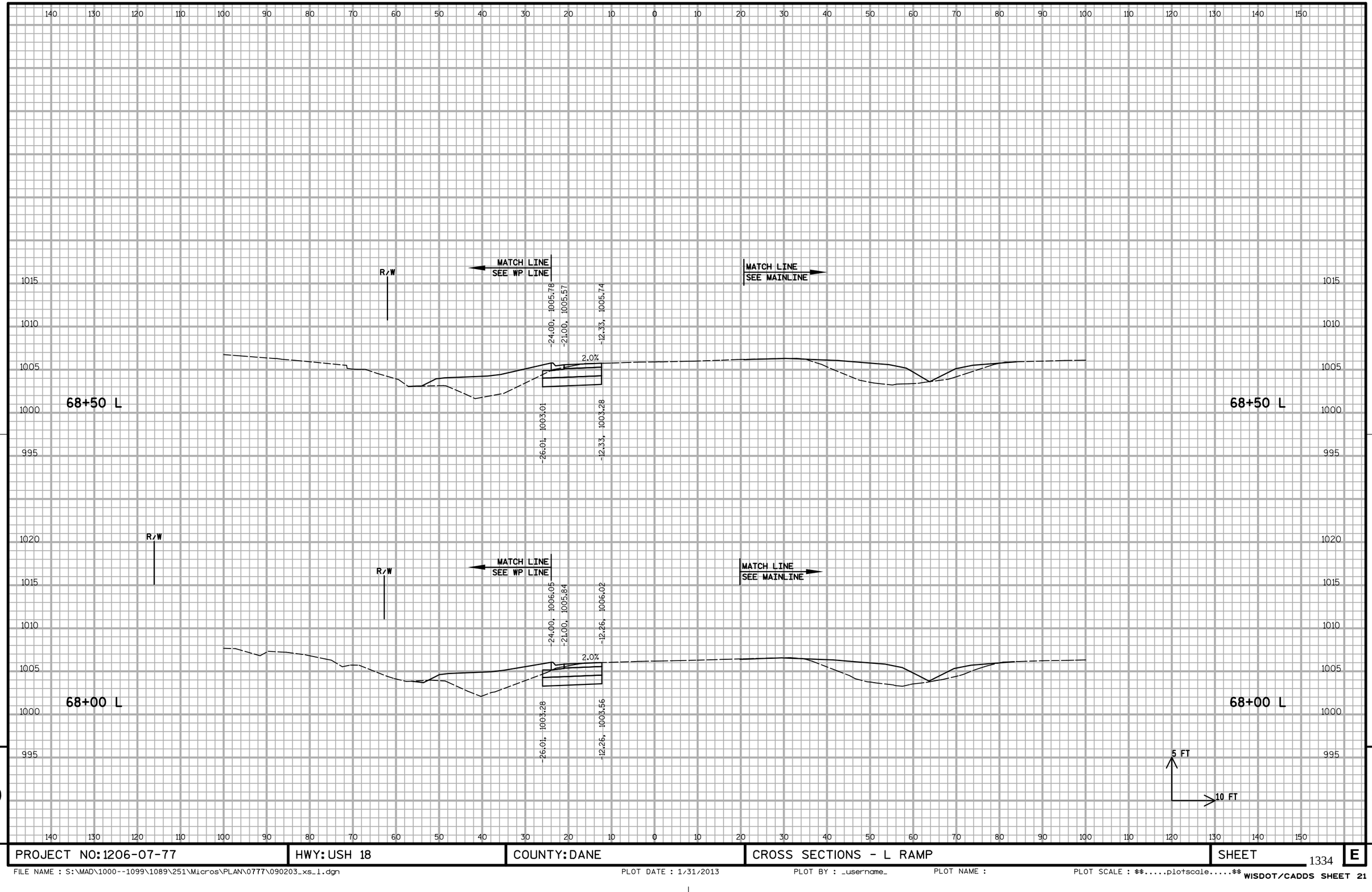
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - EB VERONA ROAD	SHEET 1332	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090202a_xs_vr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - L RAMP	SHEET 1333	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090203_xs_1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

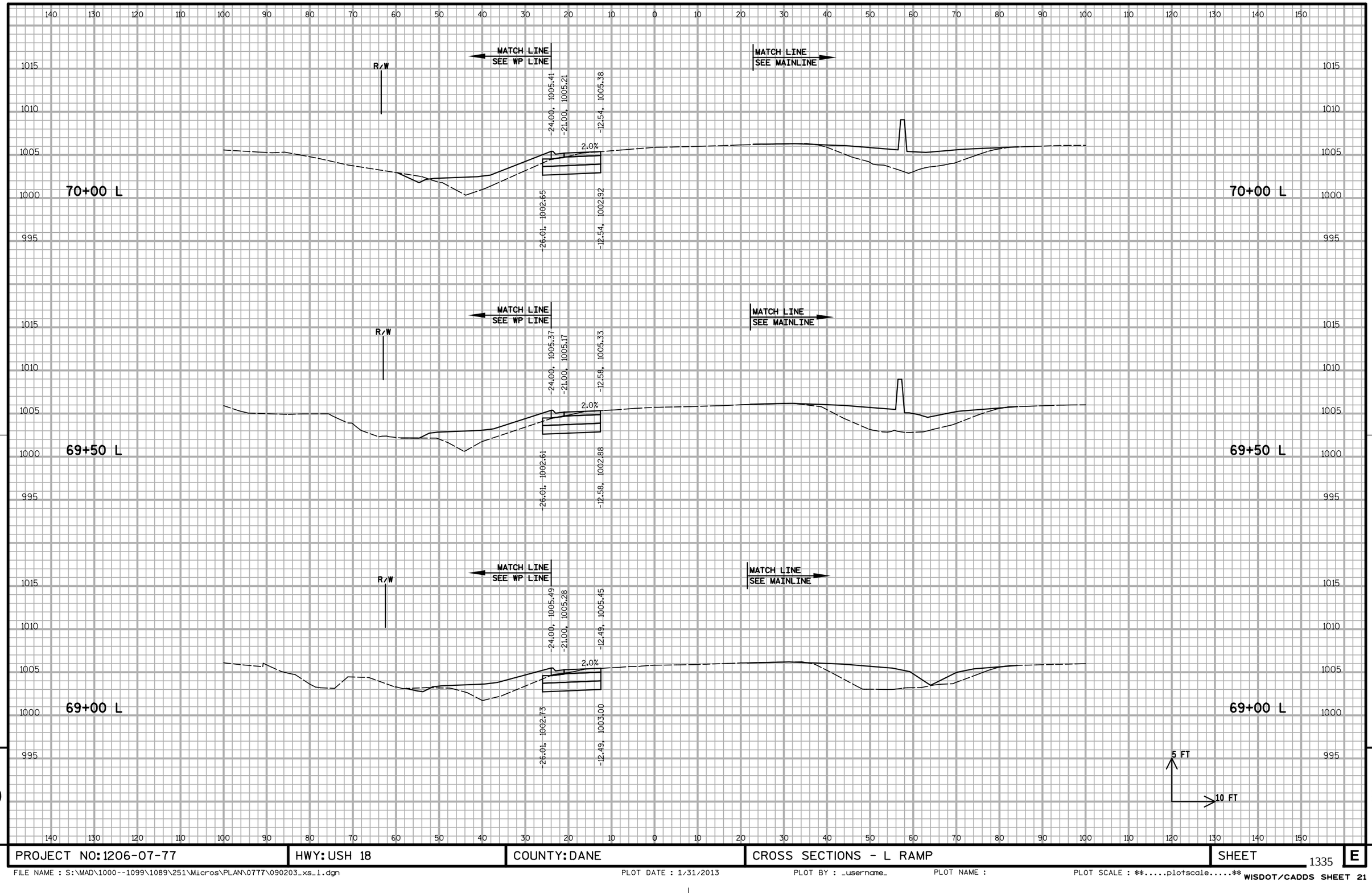


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - L RAMP	SHEET 1334	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090203_xs_l.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

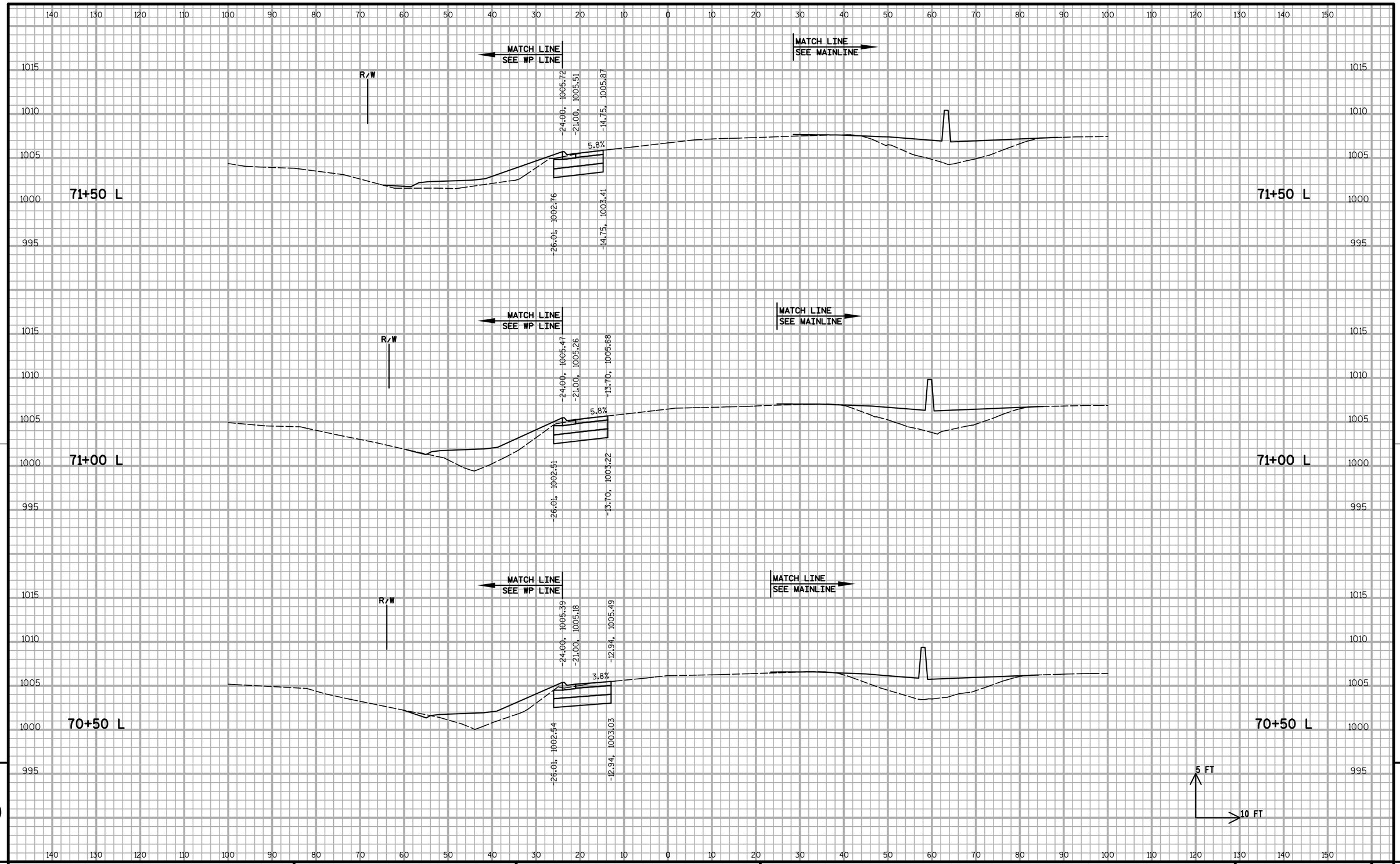


9

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - L RAMP	SHEET 1335	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090203_xs_1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

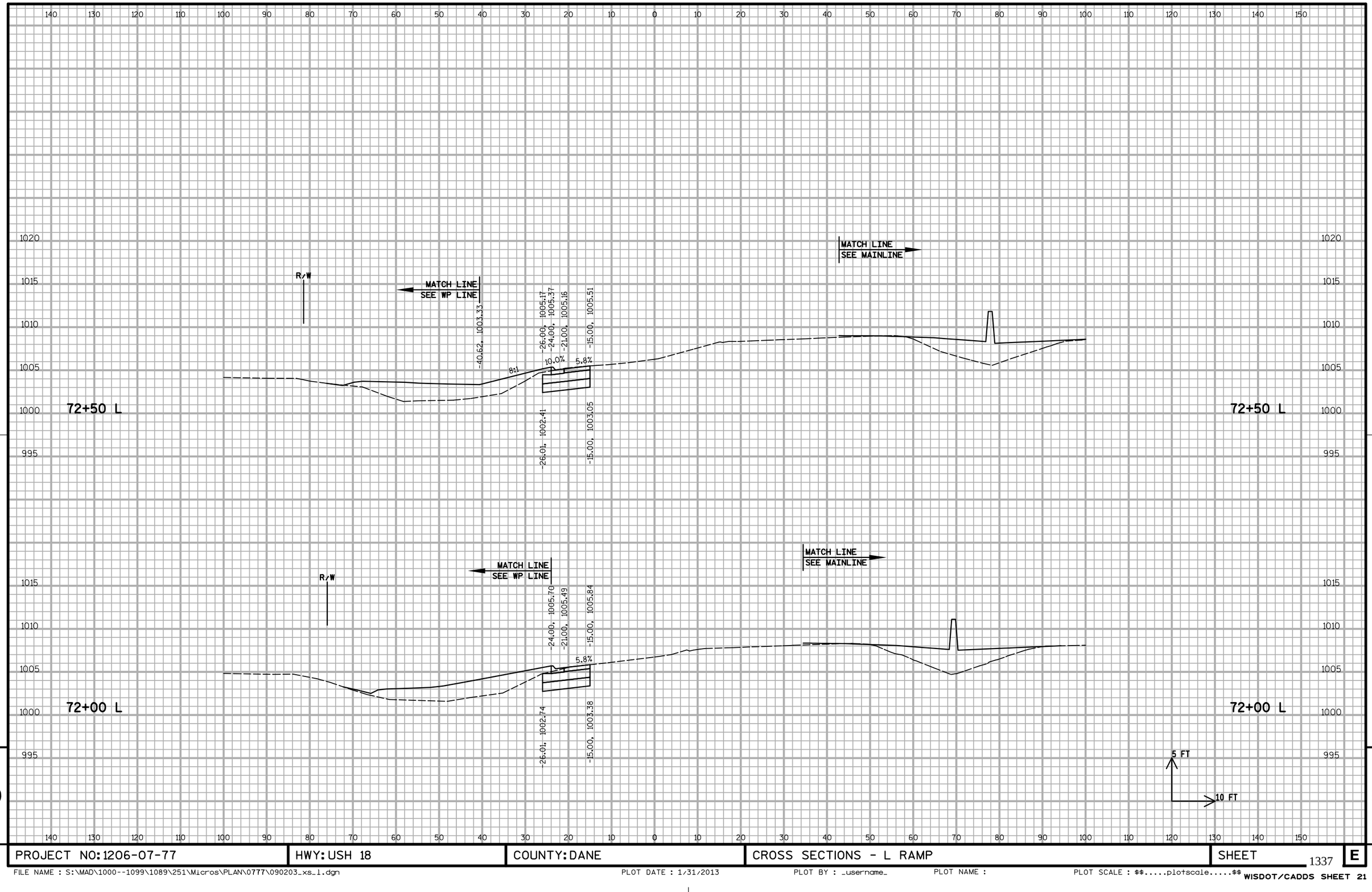


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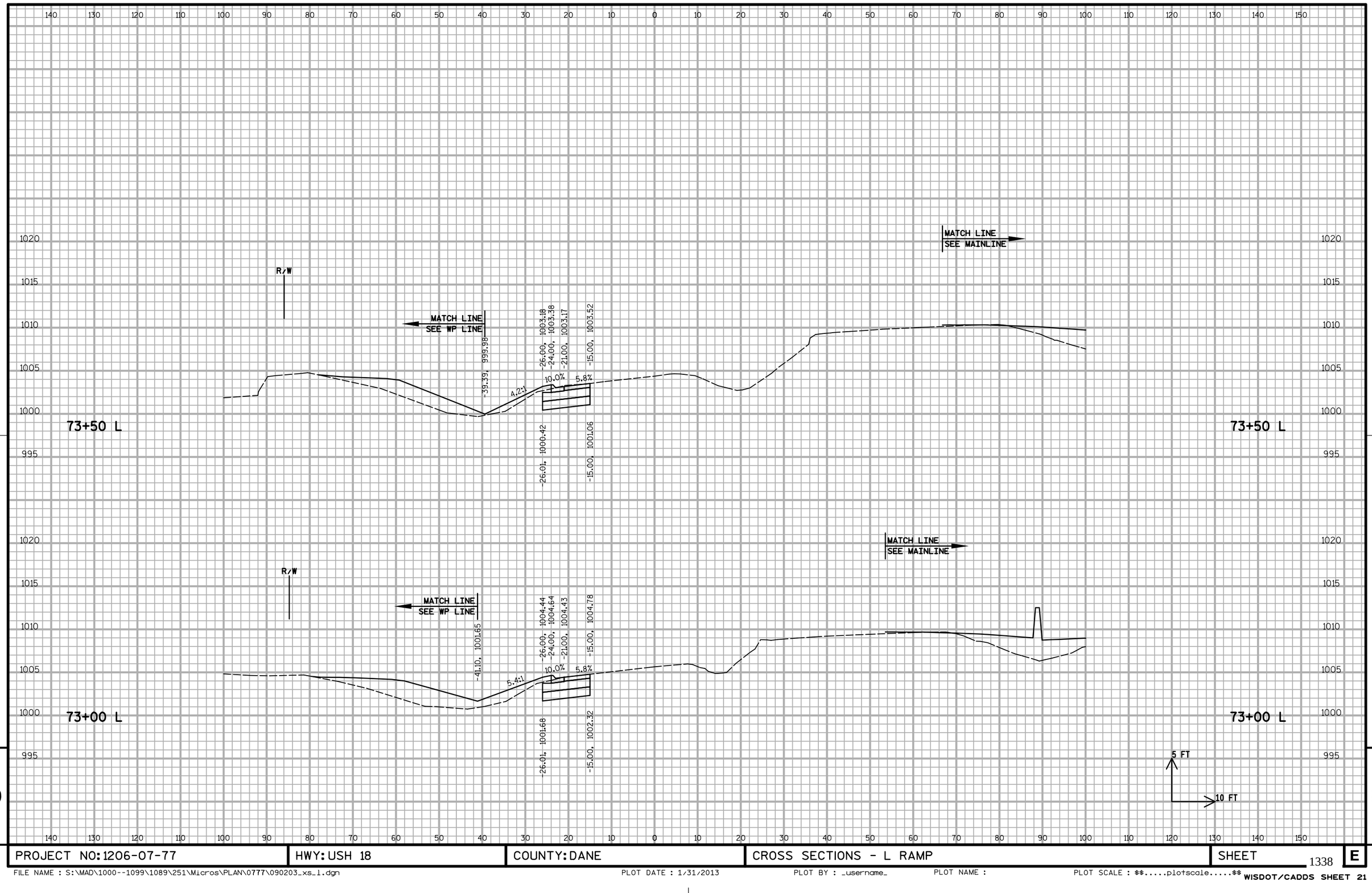
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - L RAMP	SHEET 1336	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090203_xs_1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

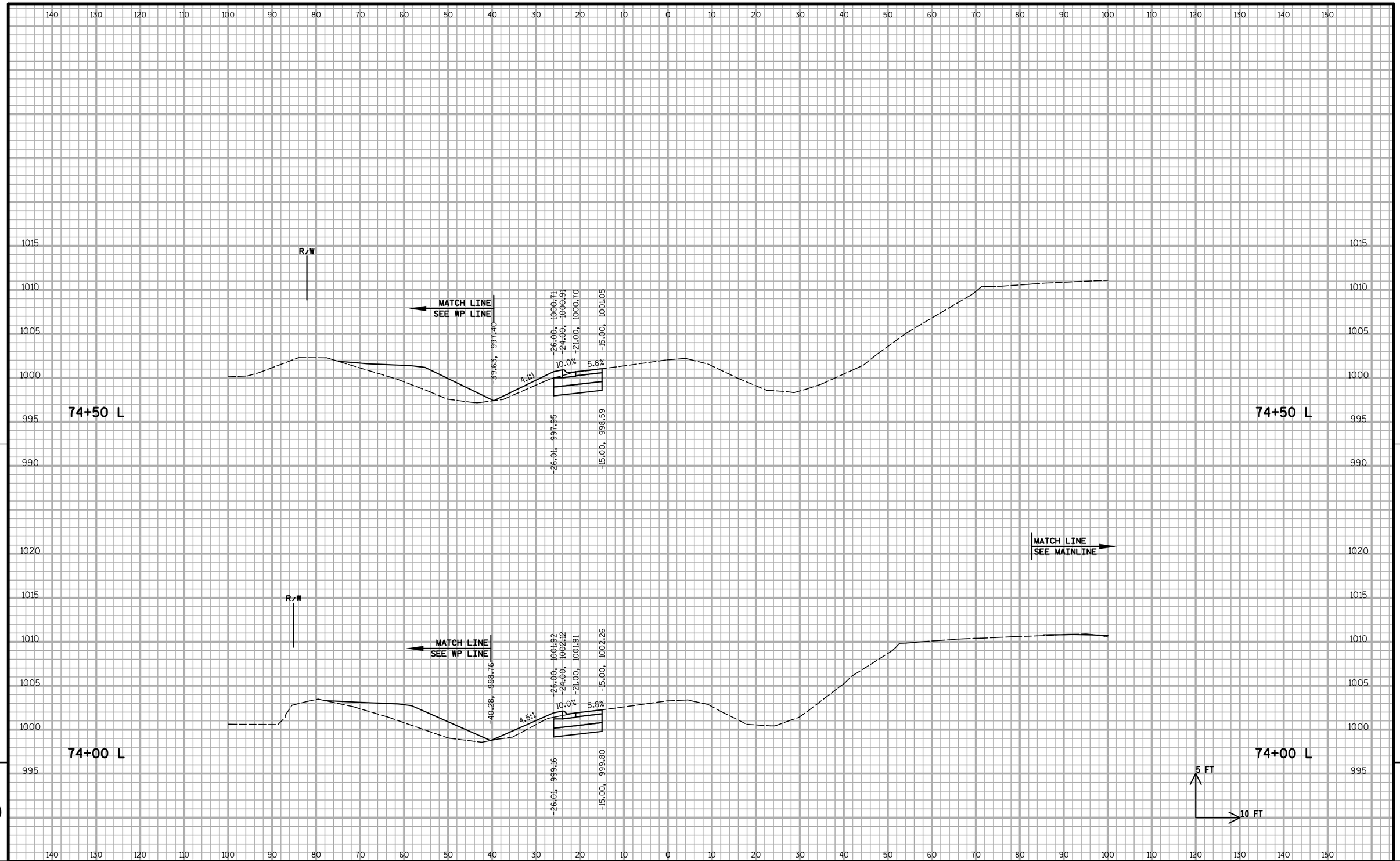


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - L RAMP	SHEET 1337	E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - L RAMP	SHEET 1338	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090203_xs_1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

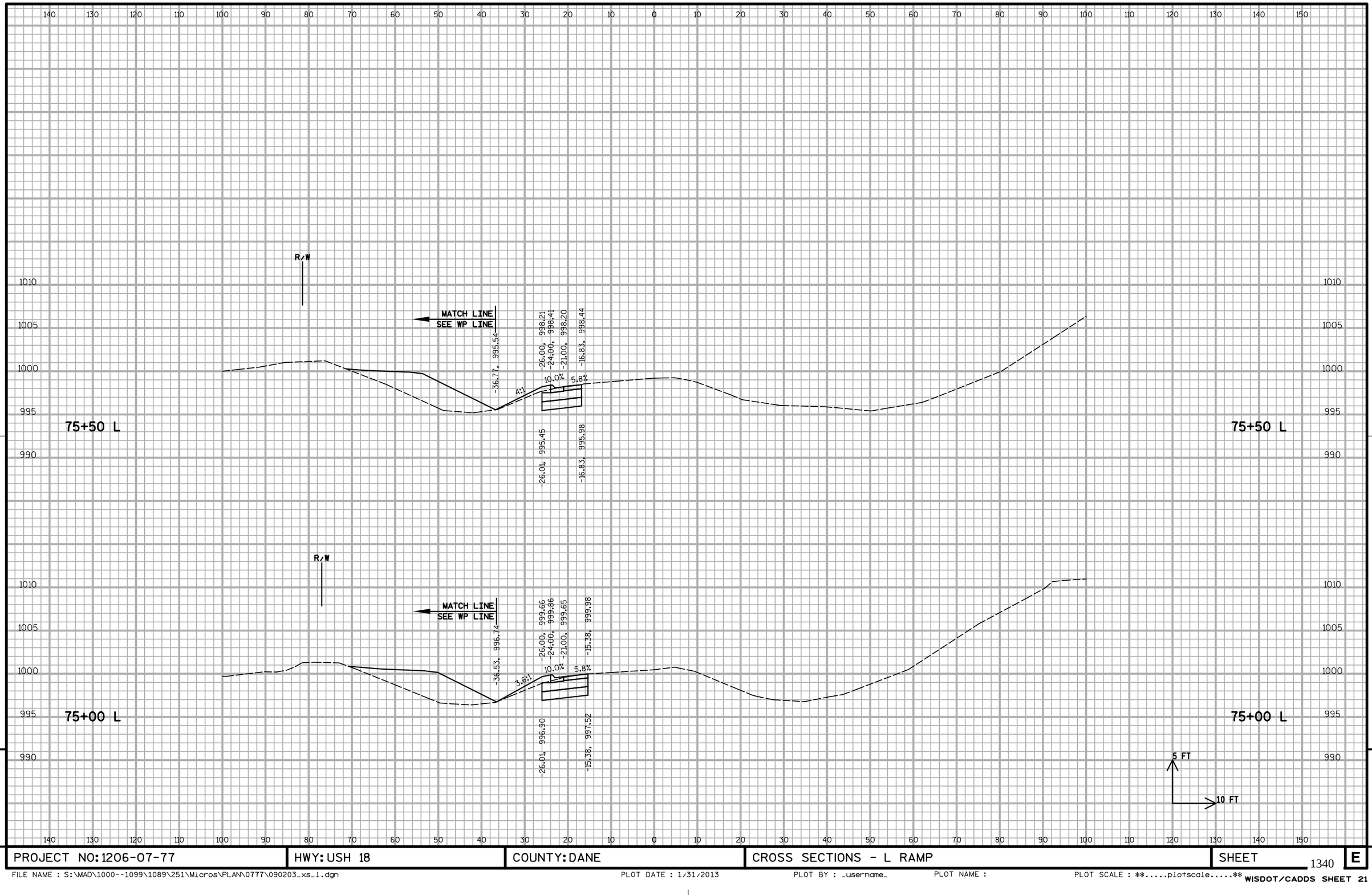


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - L RAMP	SHEET 1339	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090203_xs_1.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

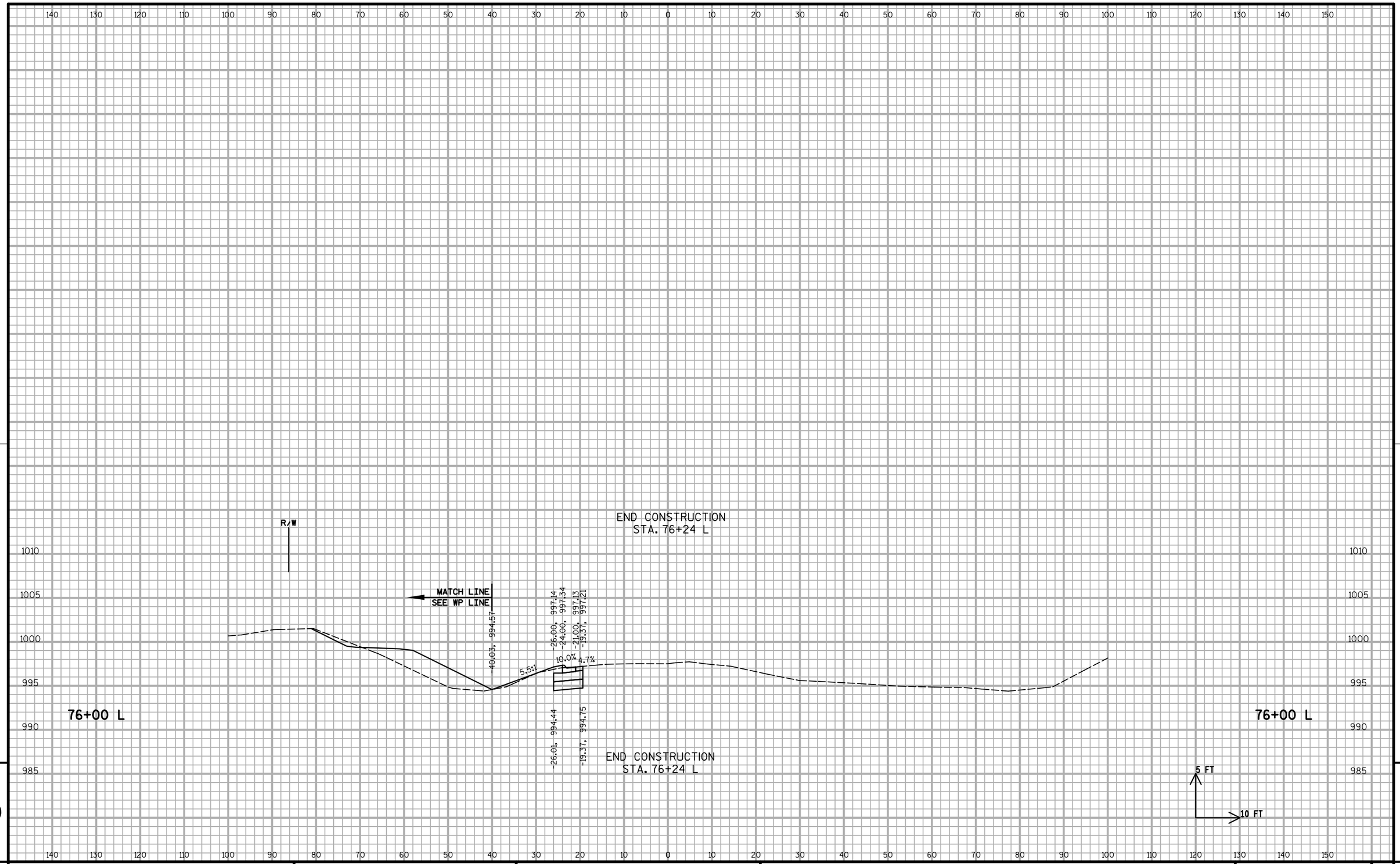


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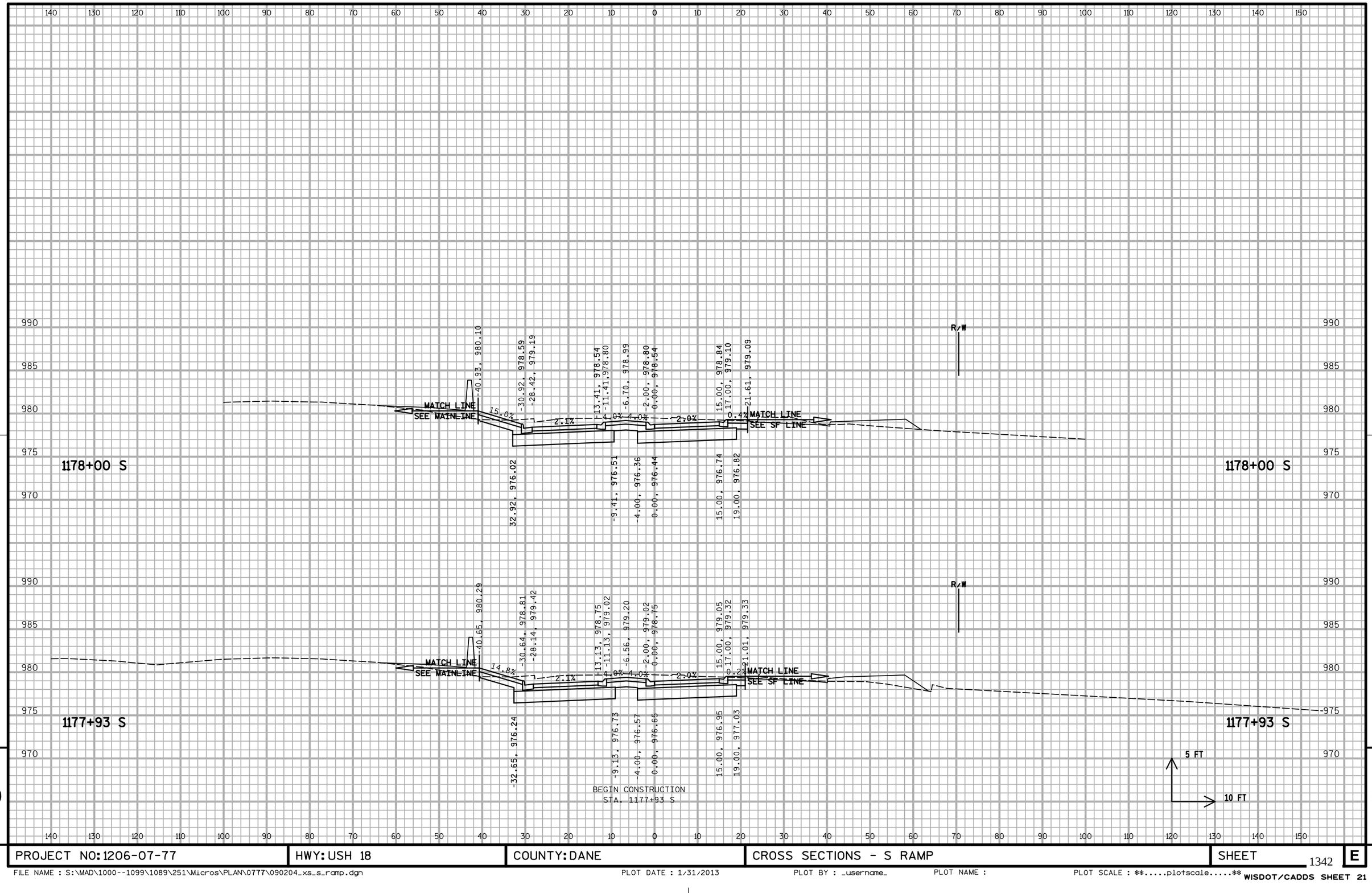
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - L RAMP	SHEET 1340	E

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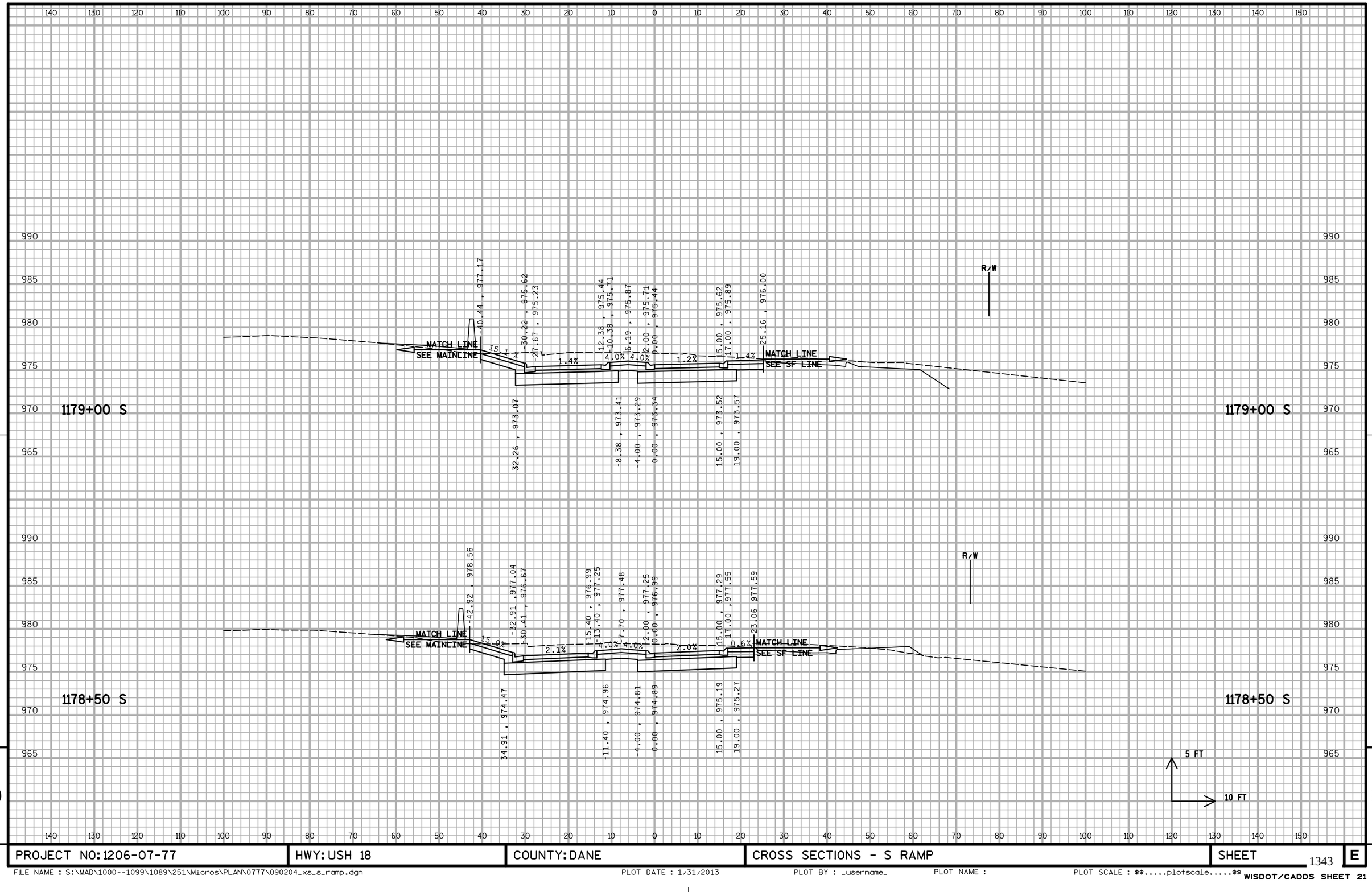
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - L RAMP	SHEET 1341	E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - S RAMP	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090204_xs_s_ramp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

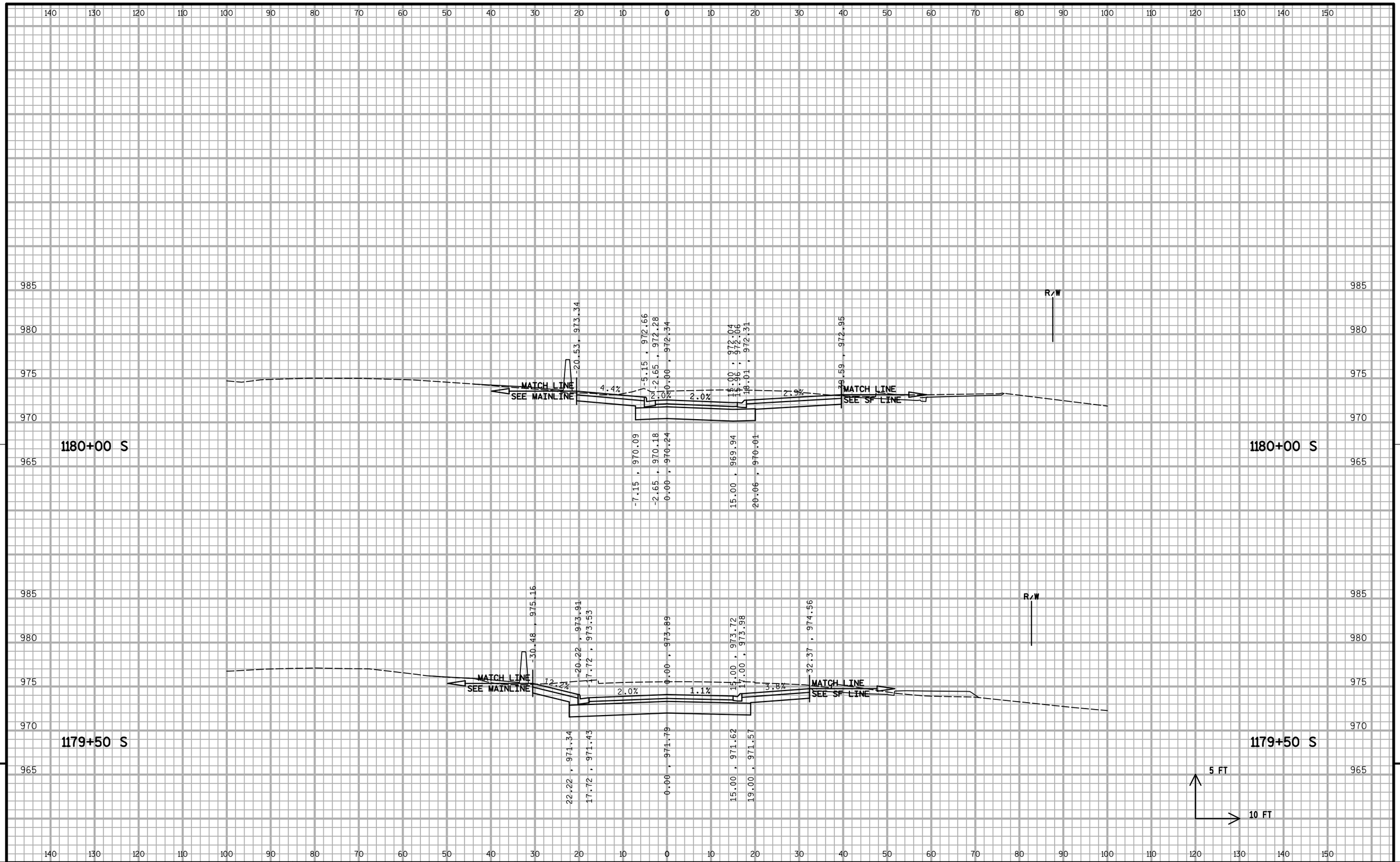


9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - S RAMP	SHEET 1343	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090204_xs_s_ramp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

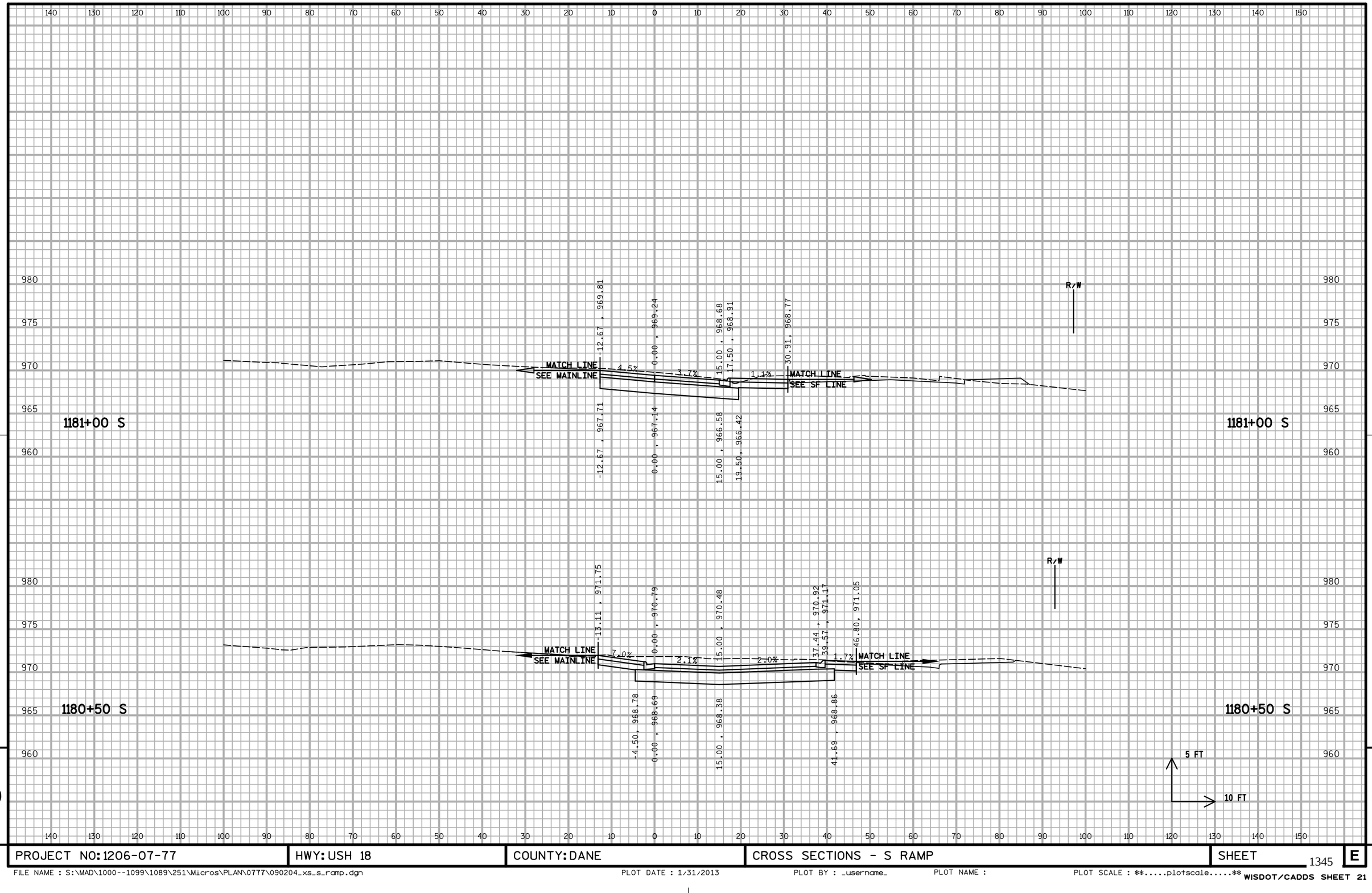


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9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - S RAMP	SHEET 1344	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090204_xs_s_ramp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

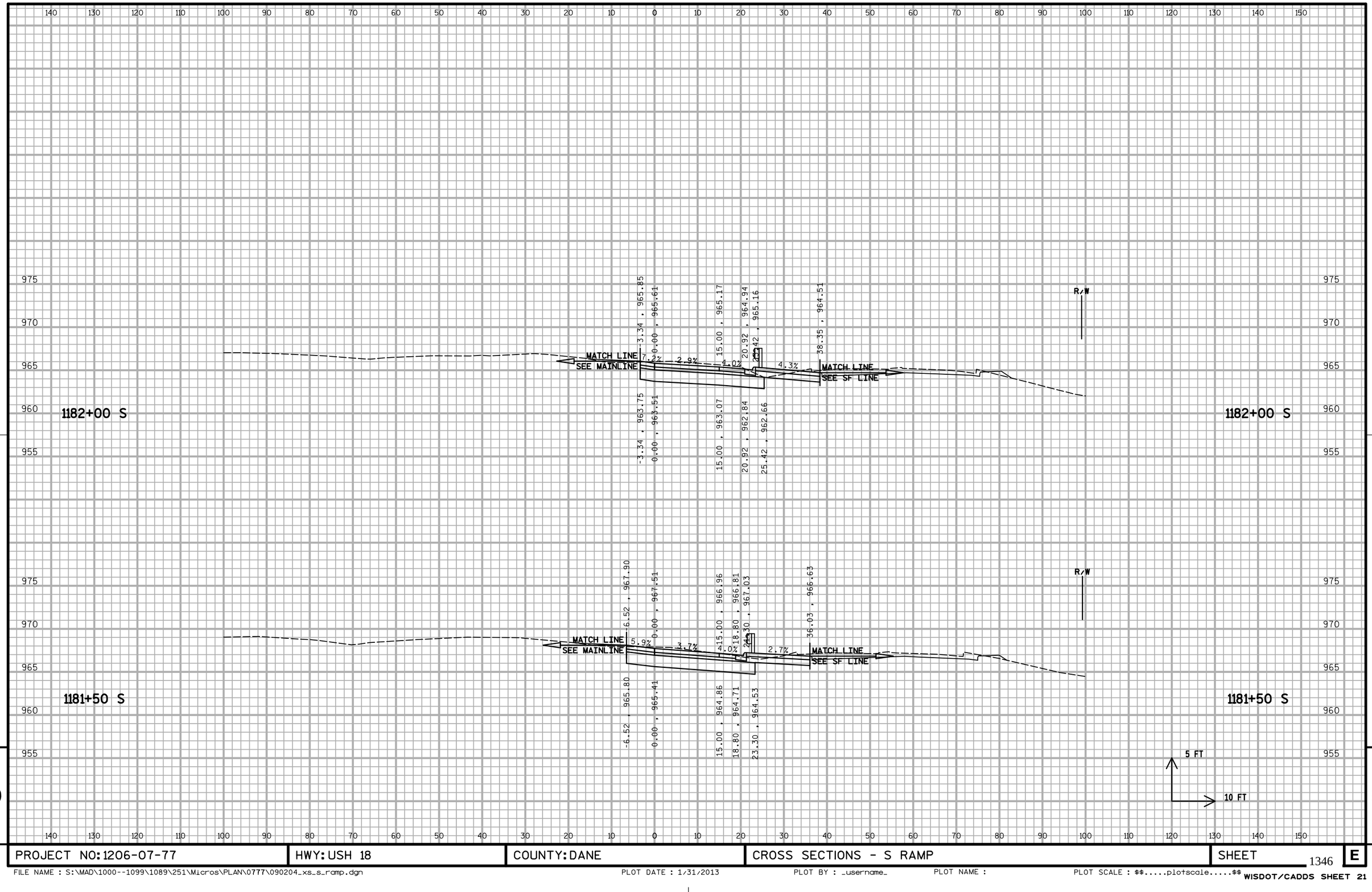


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9

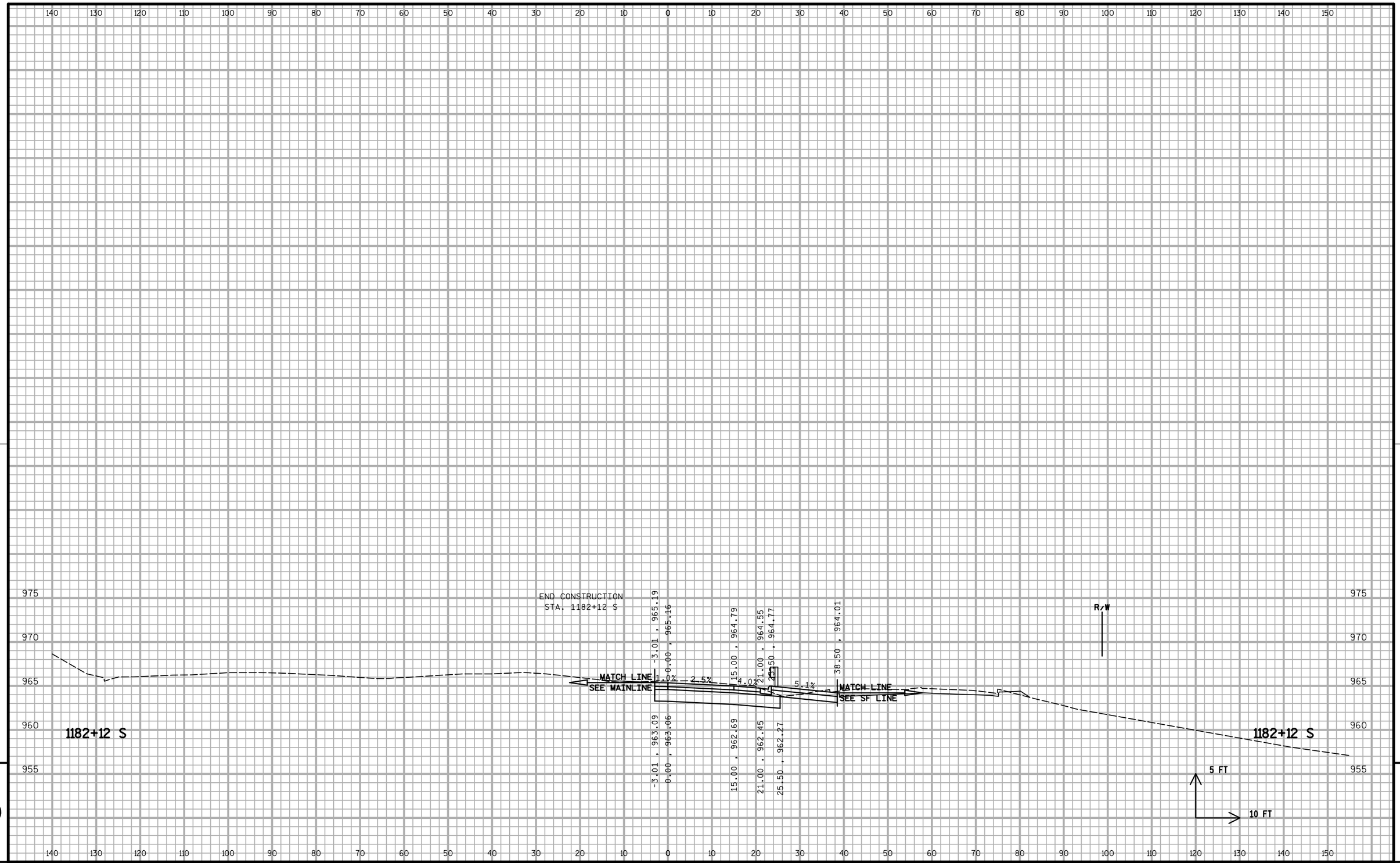
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - S RAMP	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090204_xs_s_ramp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - S RAMP	SHEET 1346	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090204_xs_s_ramp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9 9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - S RAMP	SHEET 1347	E

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

1020
1015
1010
1005
1000
995

FEN

38.04, 1010.16
27.50, 1010.37
25.00, 1010.37

MATCHLINE
SEE MAINLINE
2.0%

71+42 SF

71+42 SF

FEN

39.33, 1011.33
28.79, 1011.54
26.29, 1011.54

MATCHLINE
SEE MAINLINE
2.0%

71+00 SF

BEGIN CONSTRUCTION
STA. 71+00 SF

71+00 SF

5 FT
10 FT

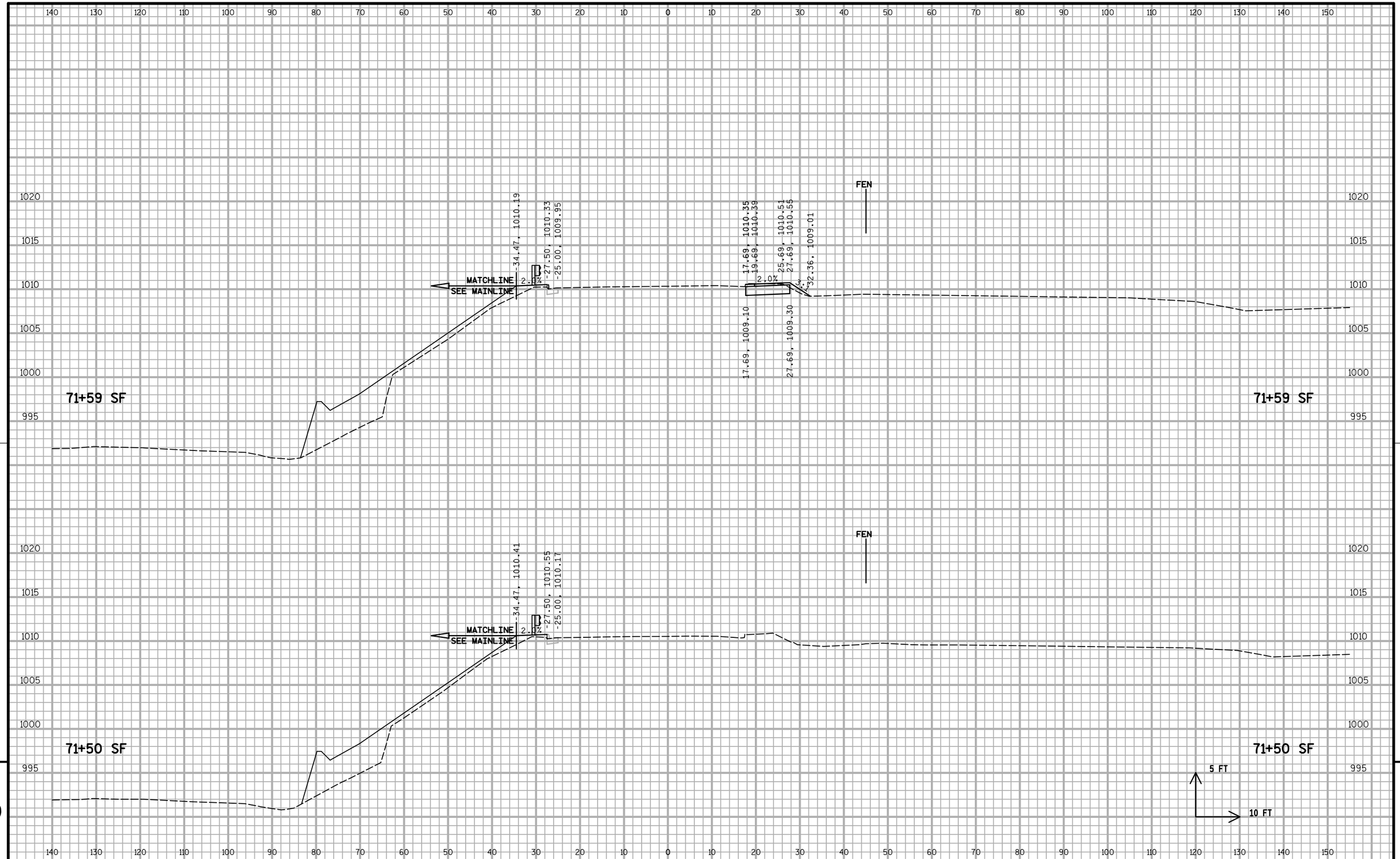
9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1348	E

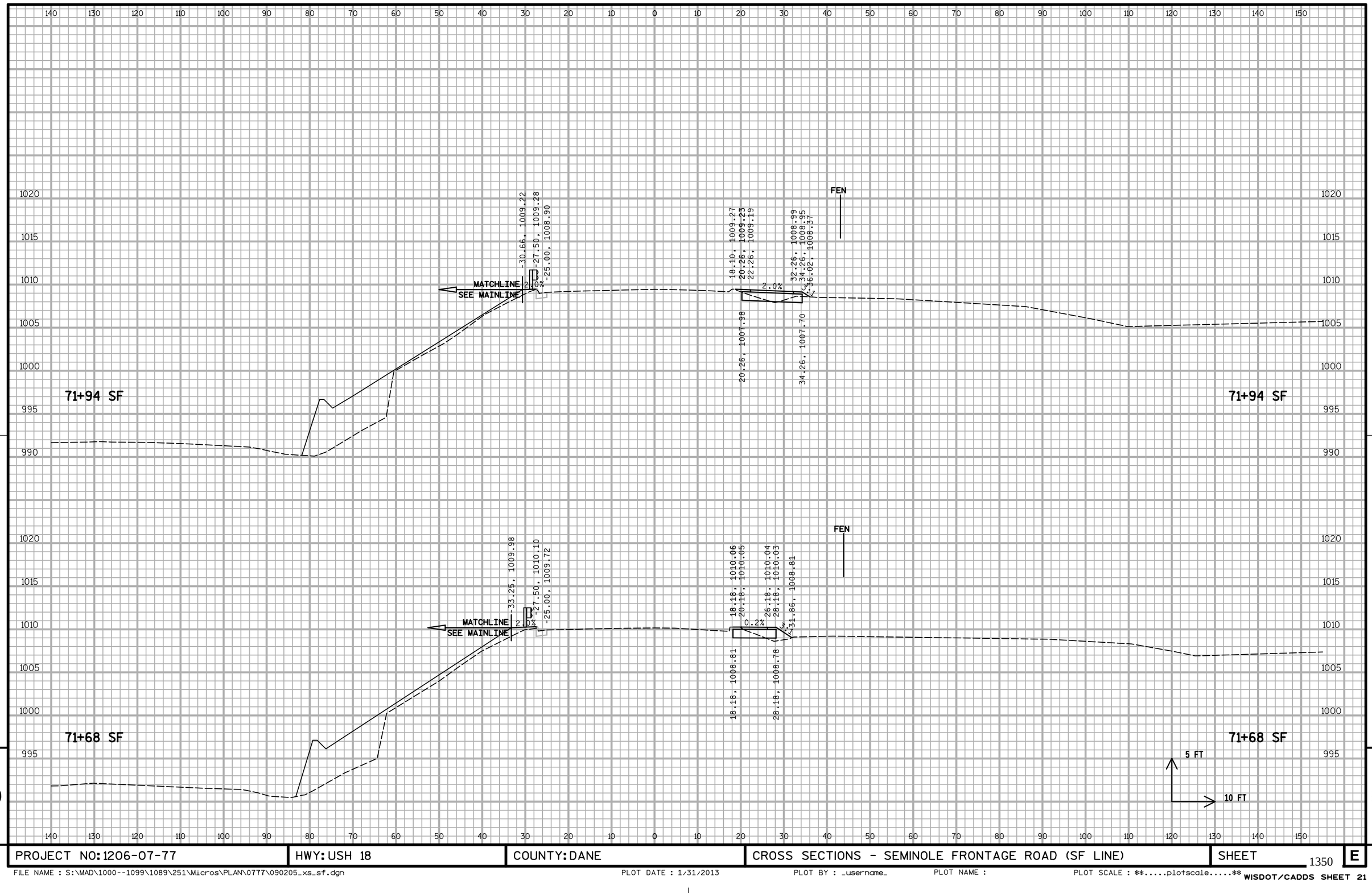
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WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1349	E

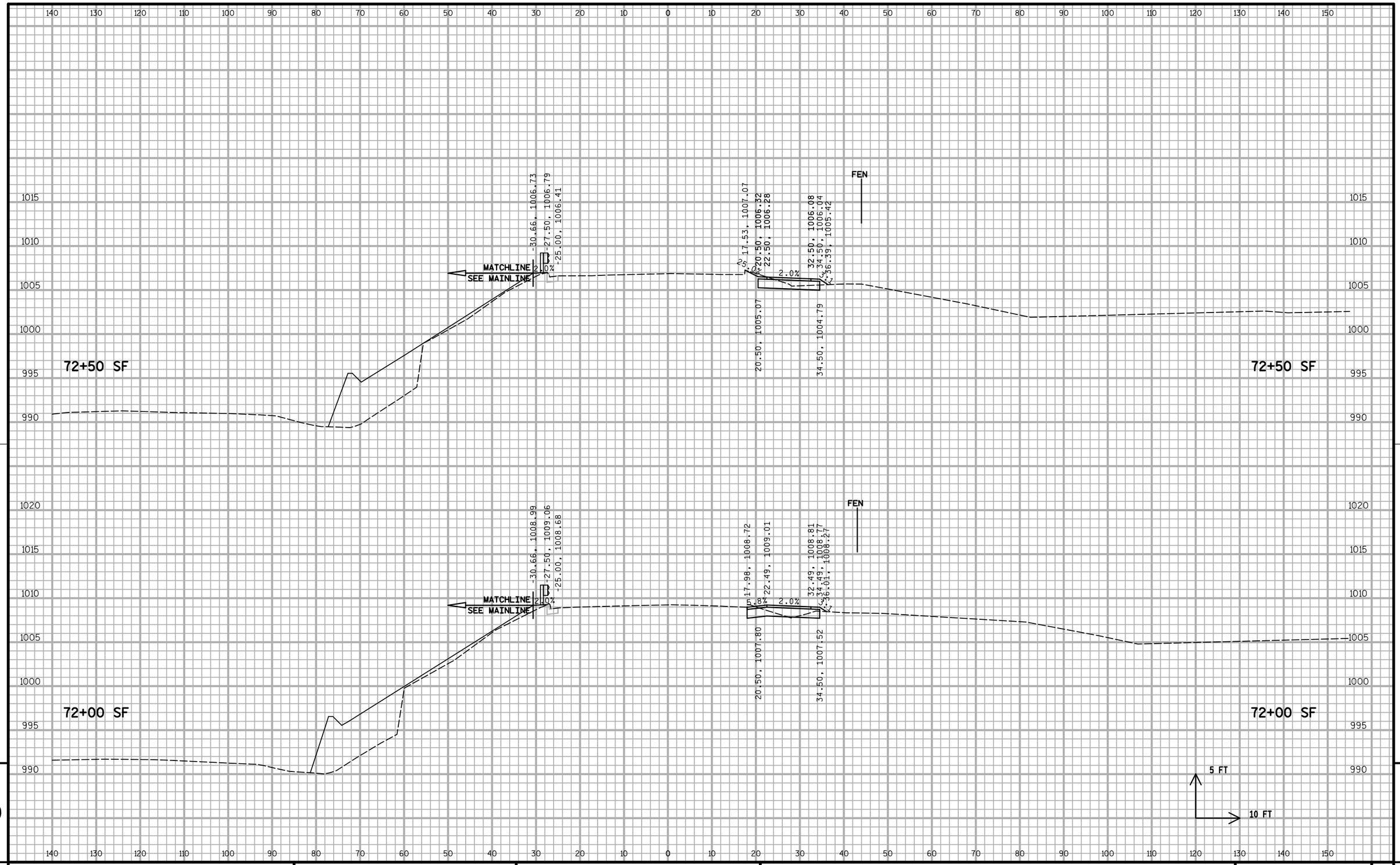
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1350	E

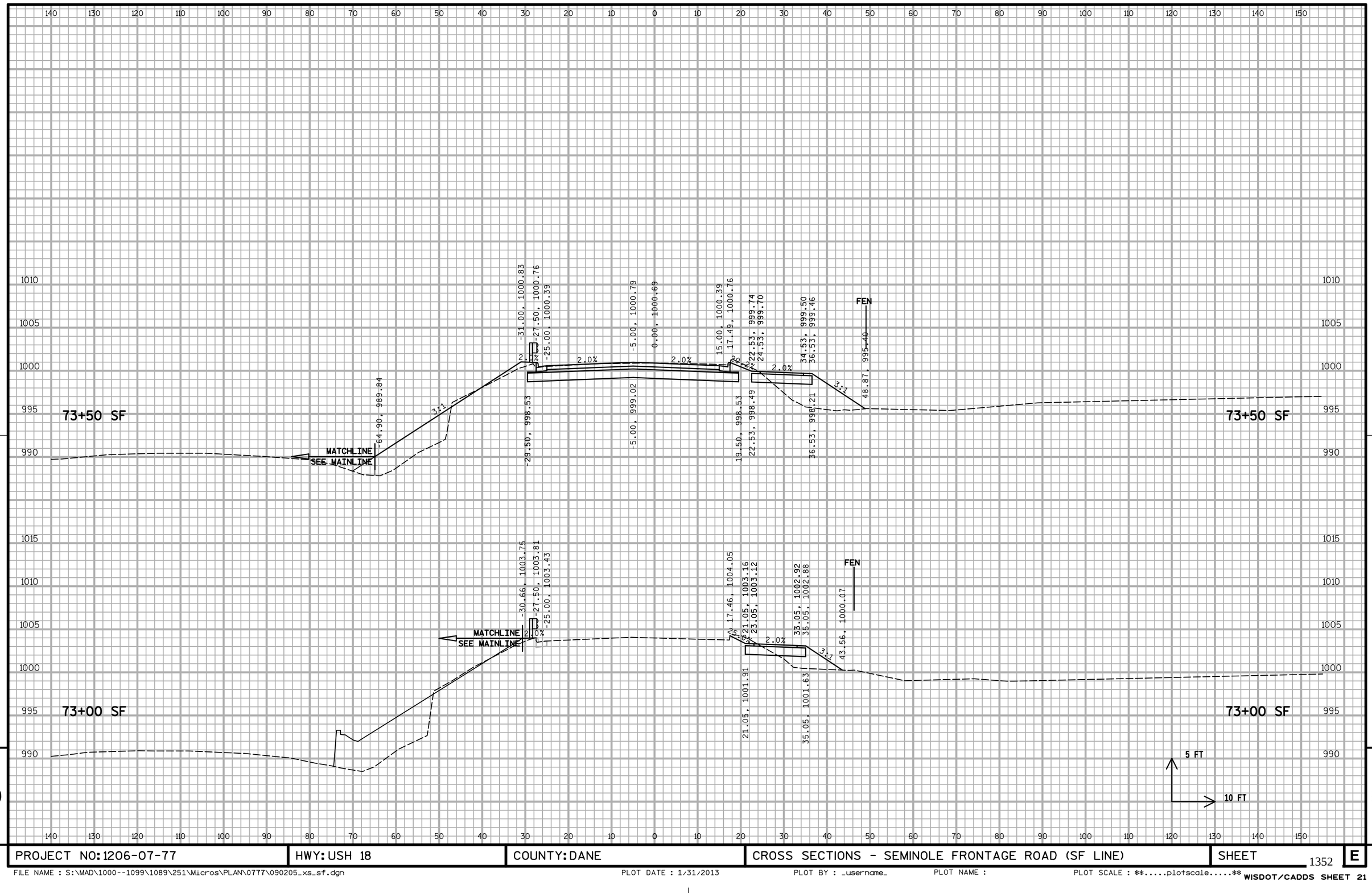
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WISDOT/CADDS SHEET 21



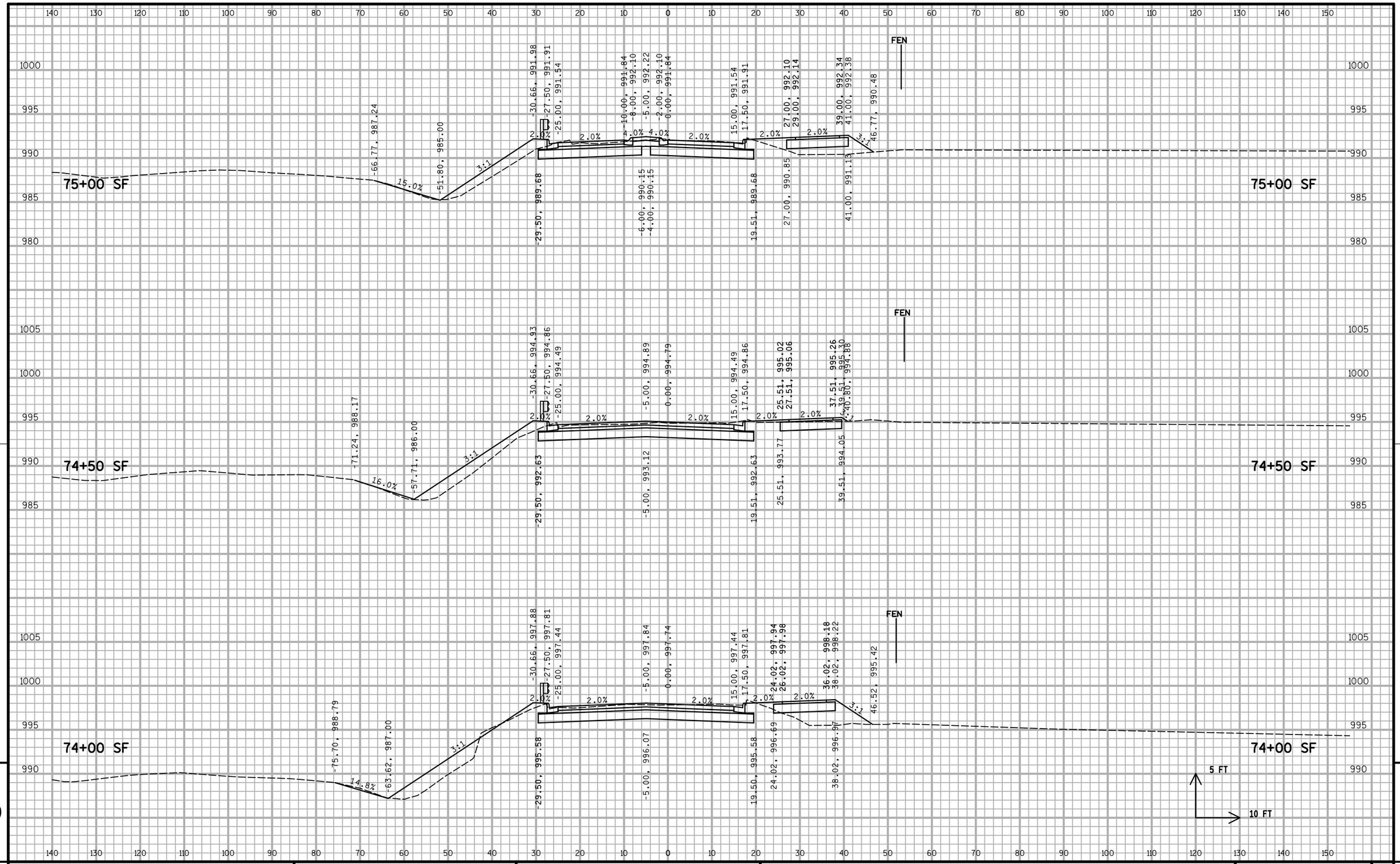
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1351	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090205_xs_sf.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



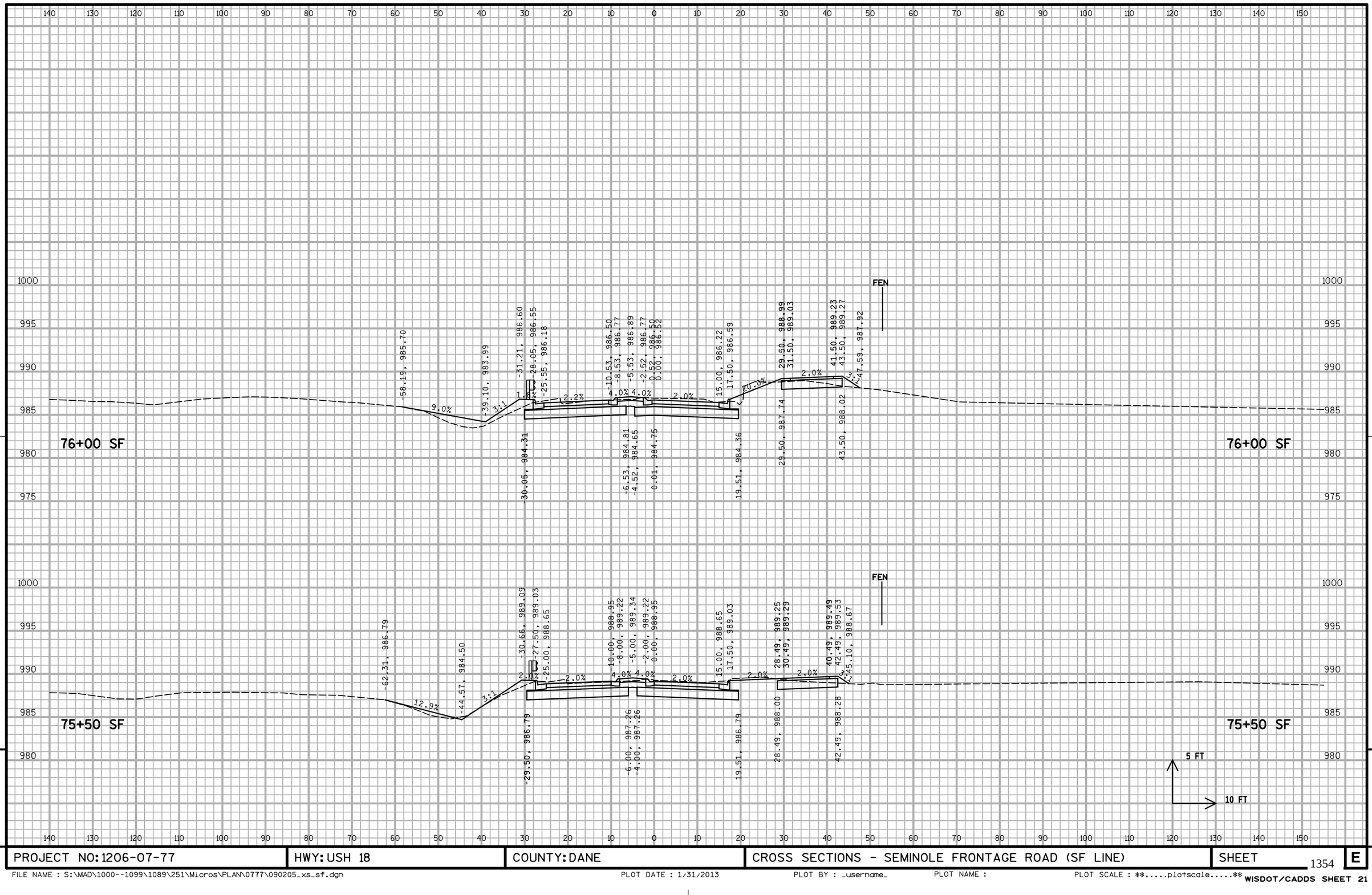
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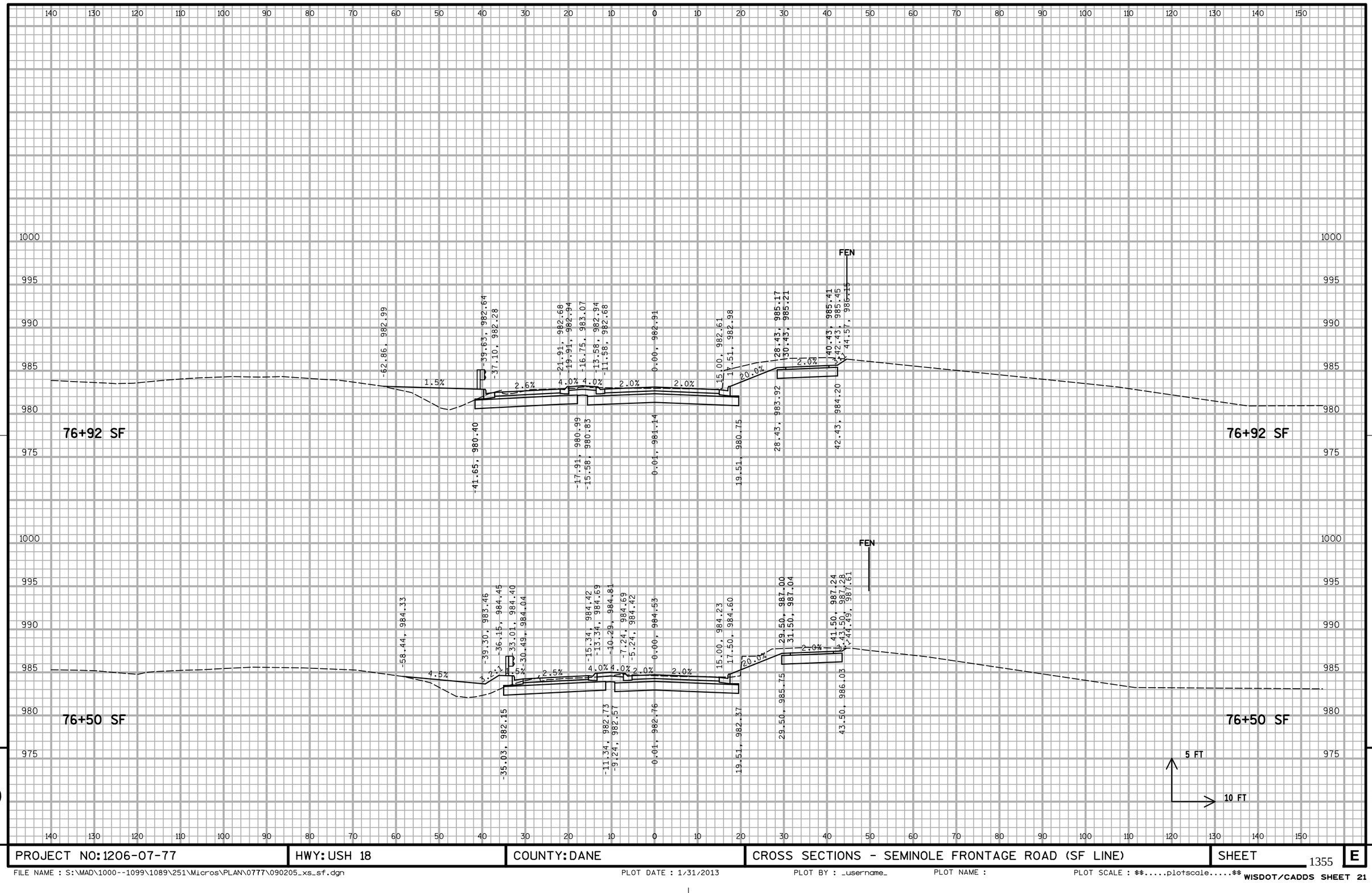
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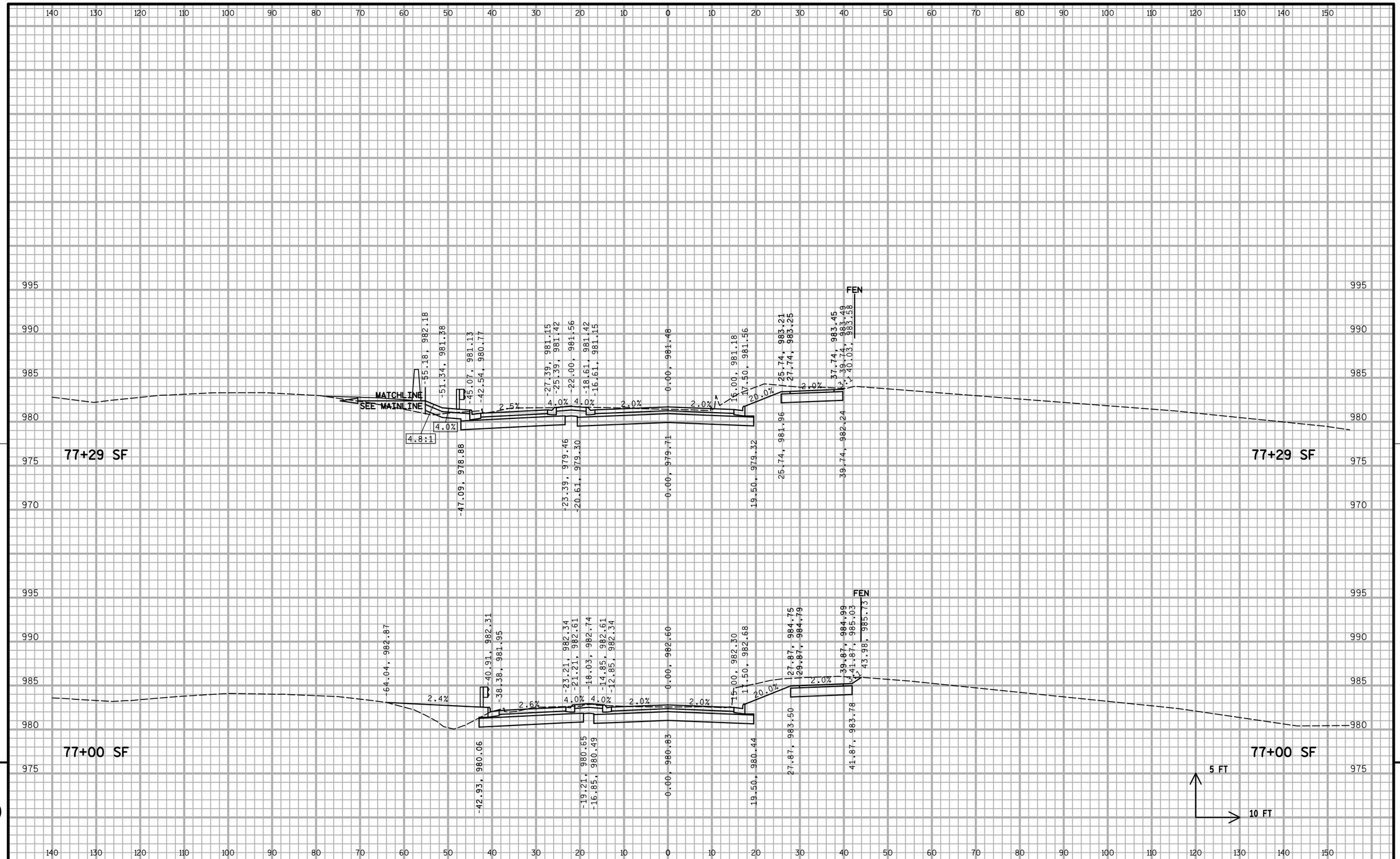


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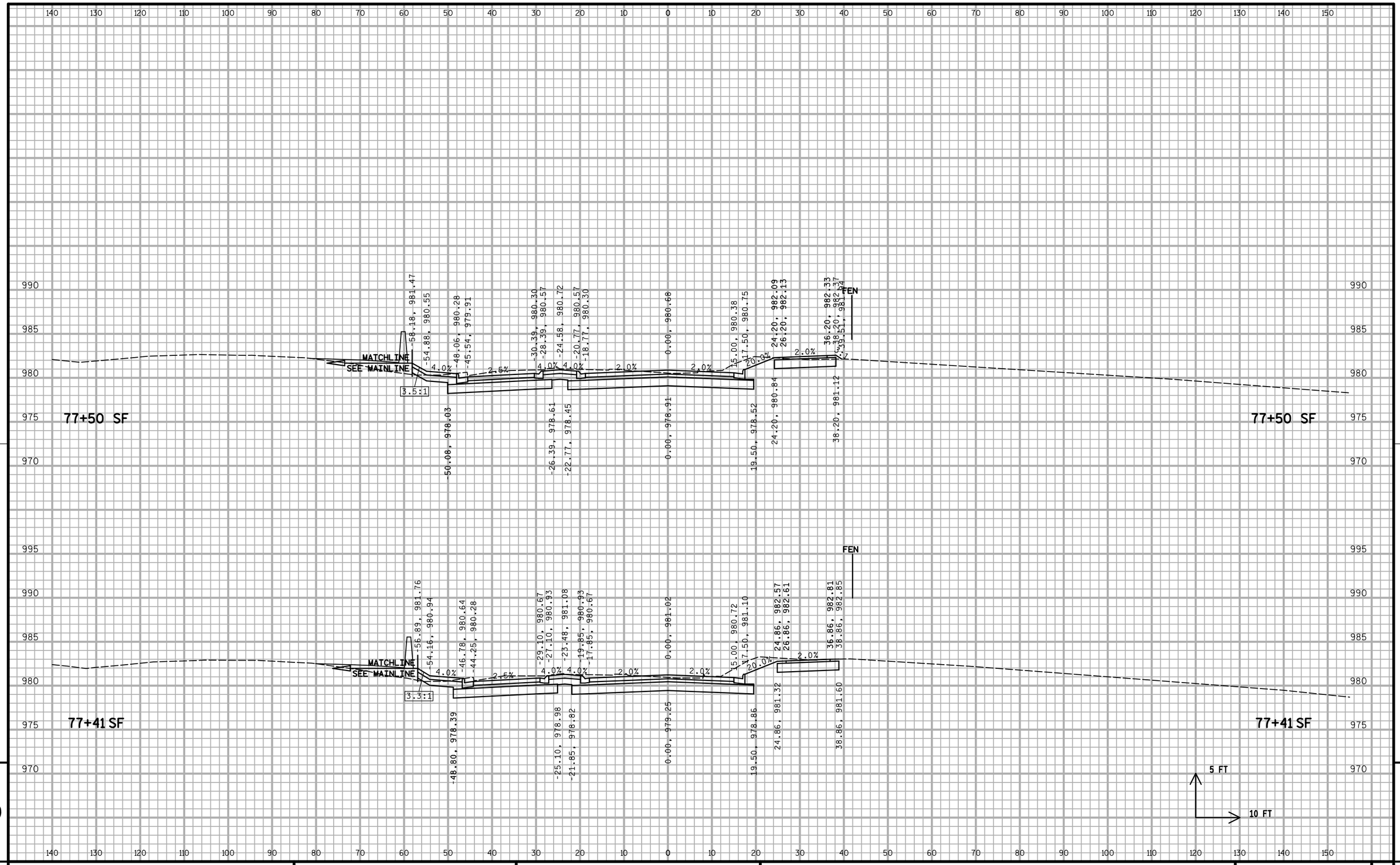


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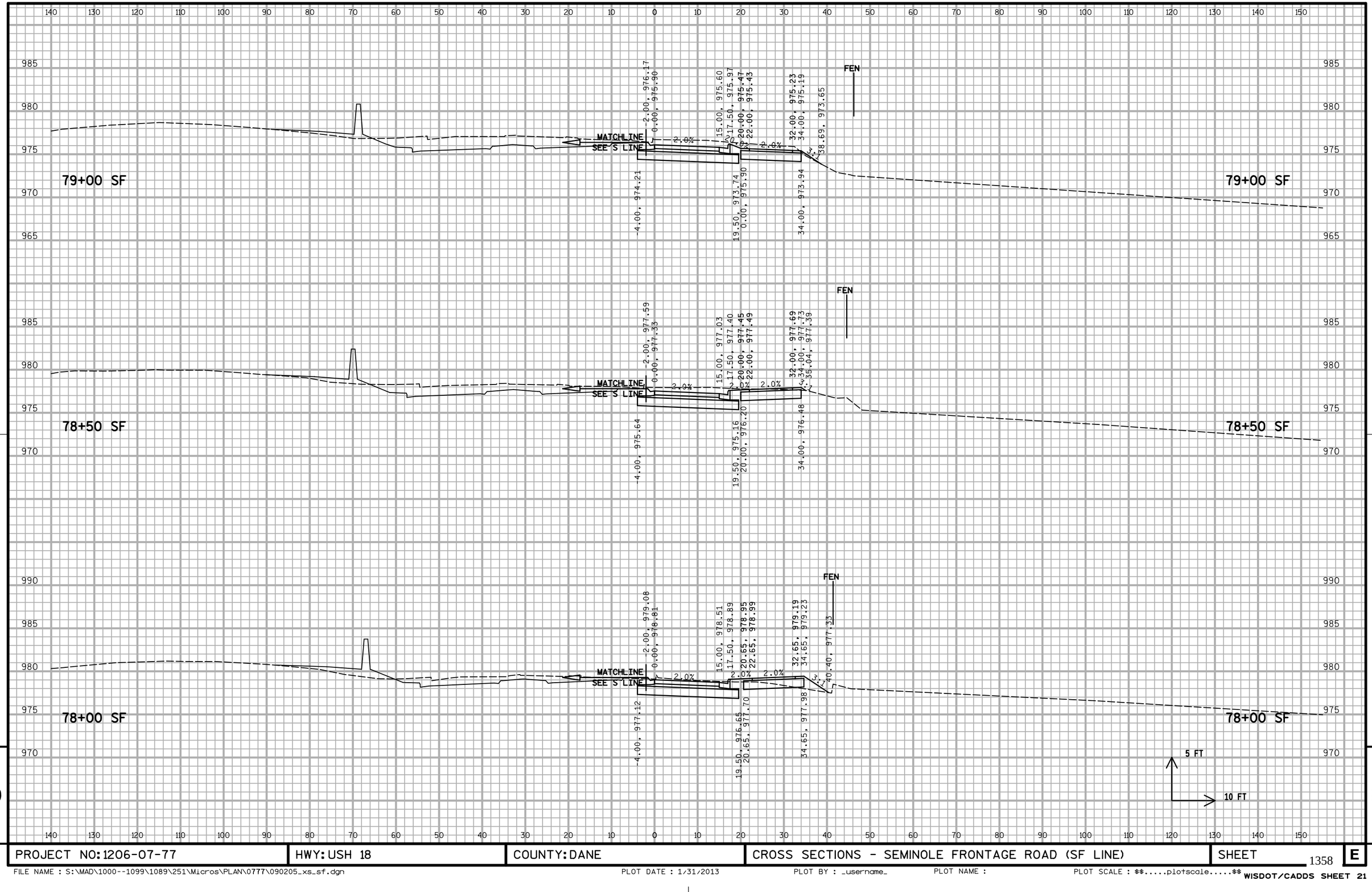
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1357	E

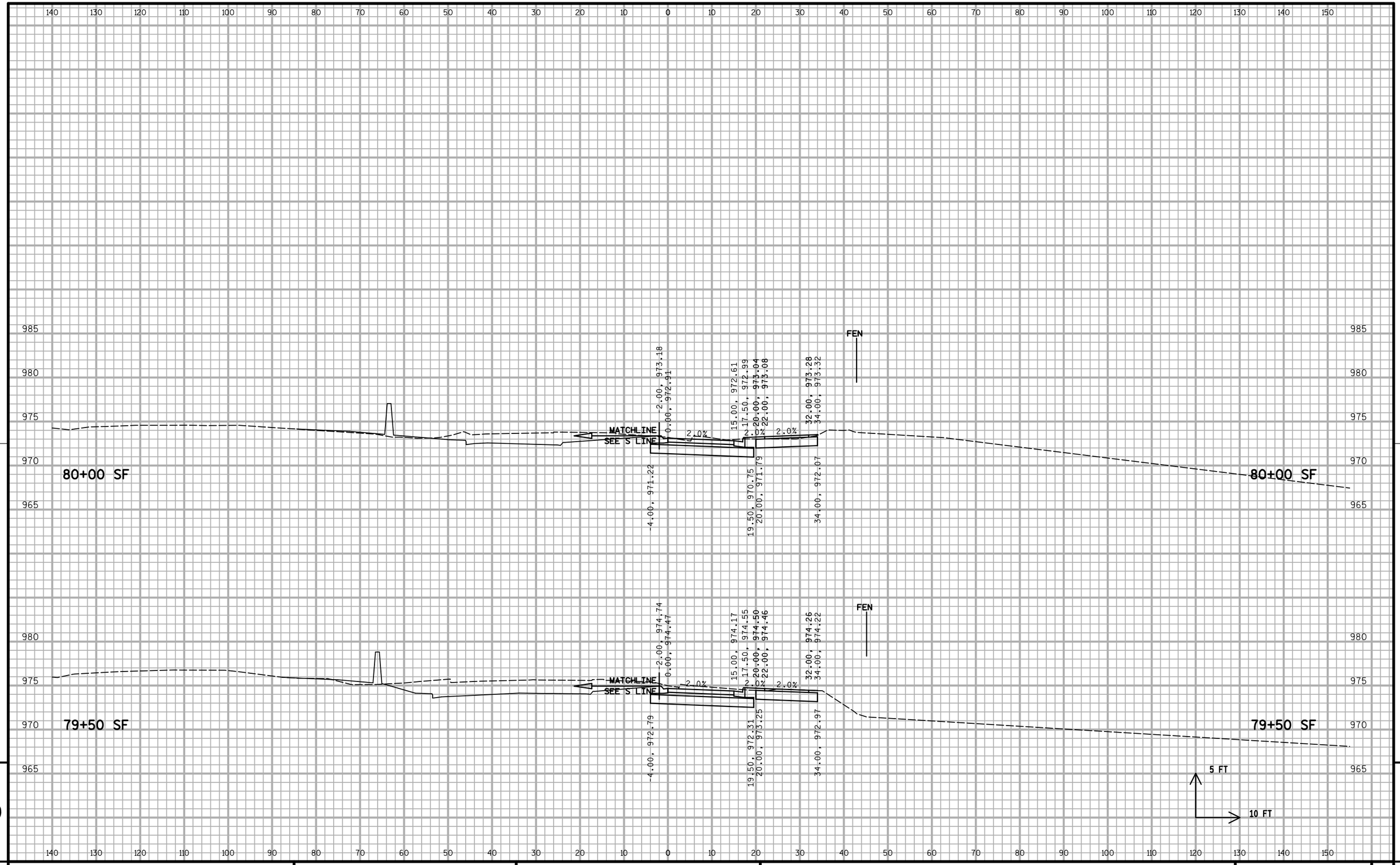
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1358	E

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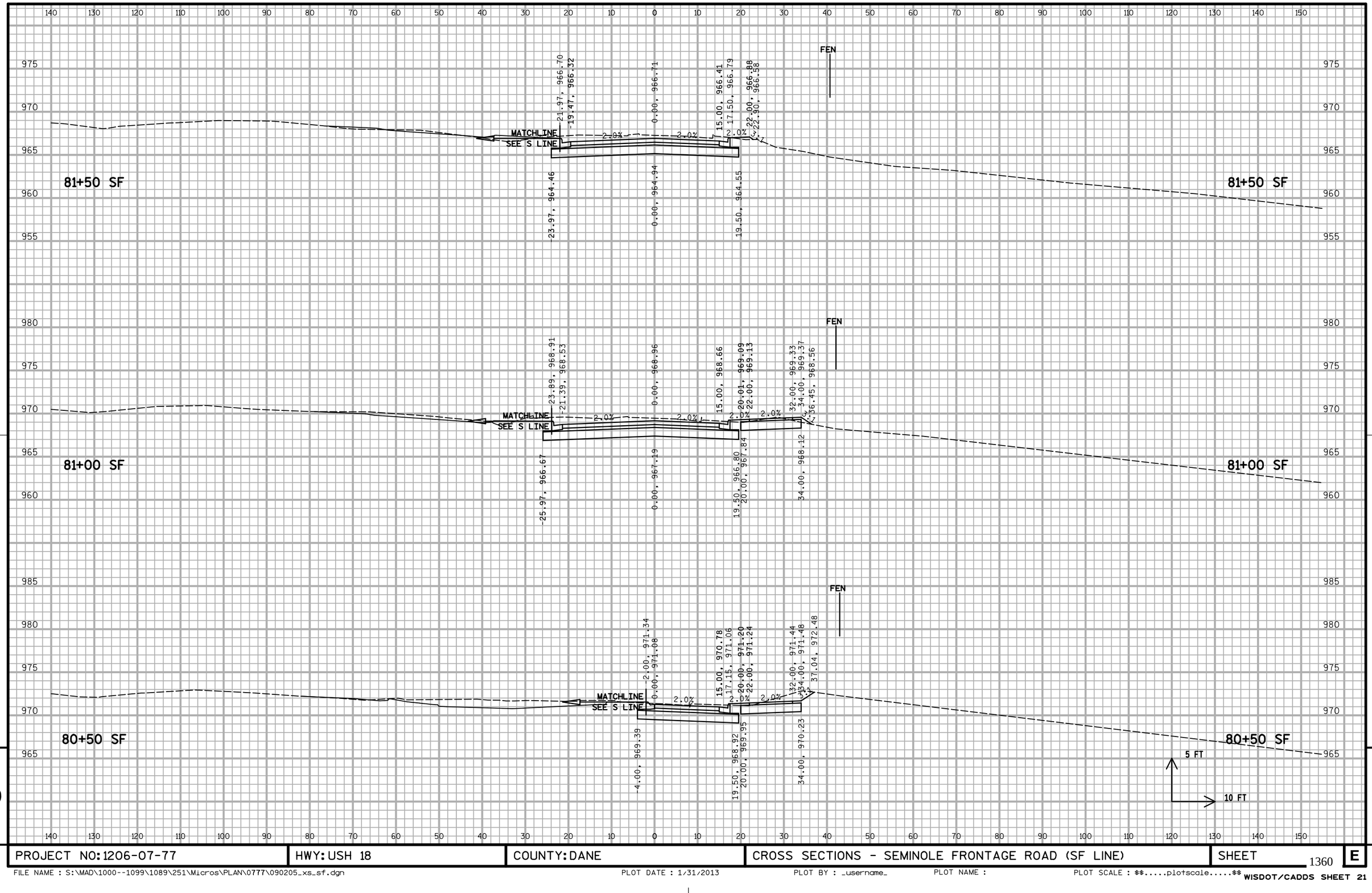
WISDOT/CADDS SHEET 21



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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1359	E

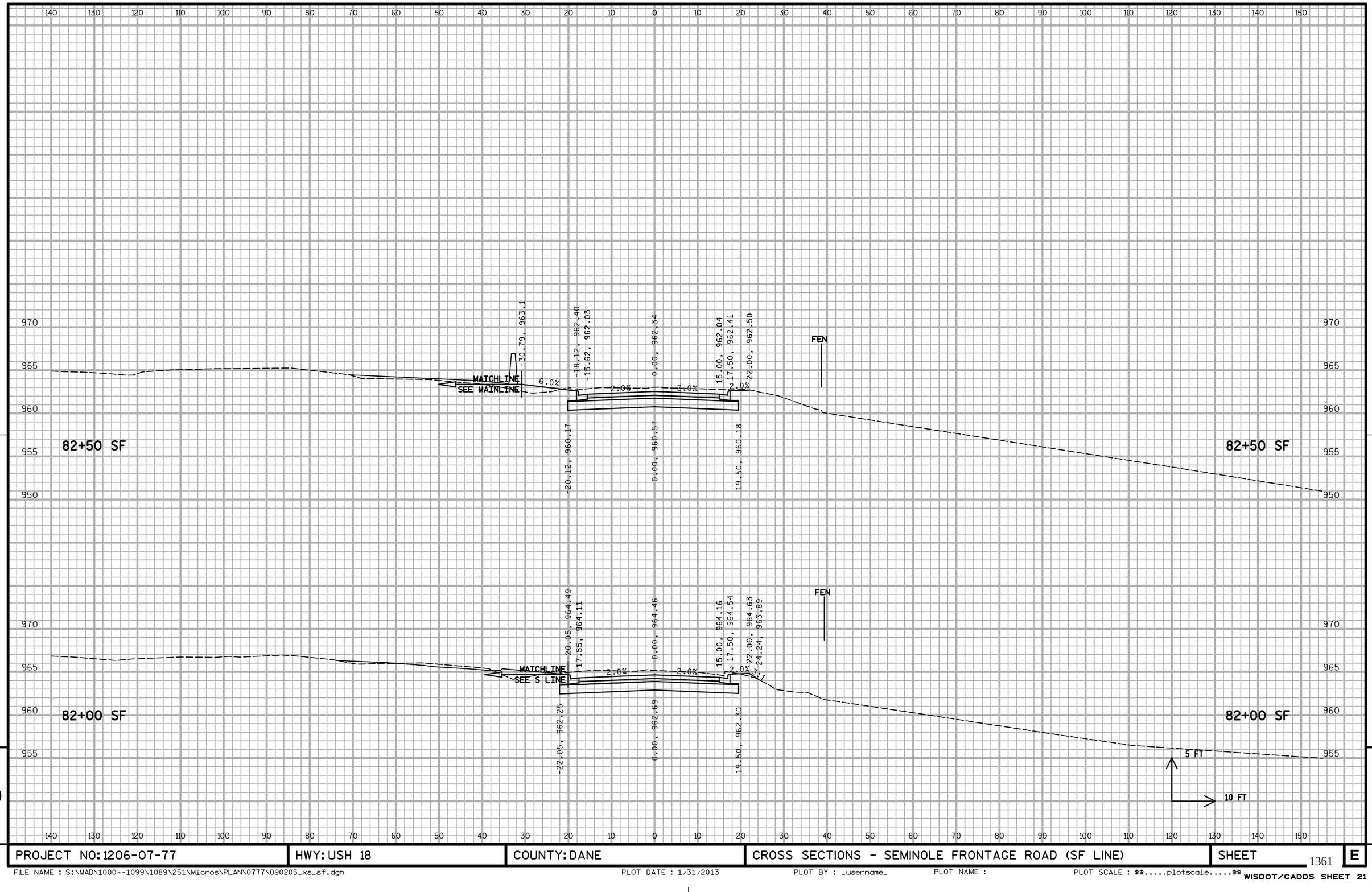


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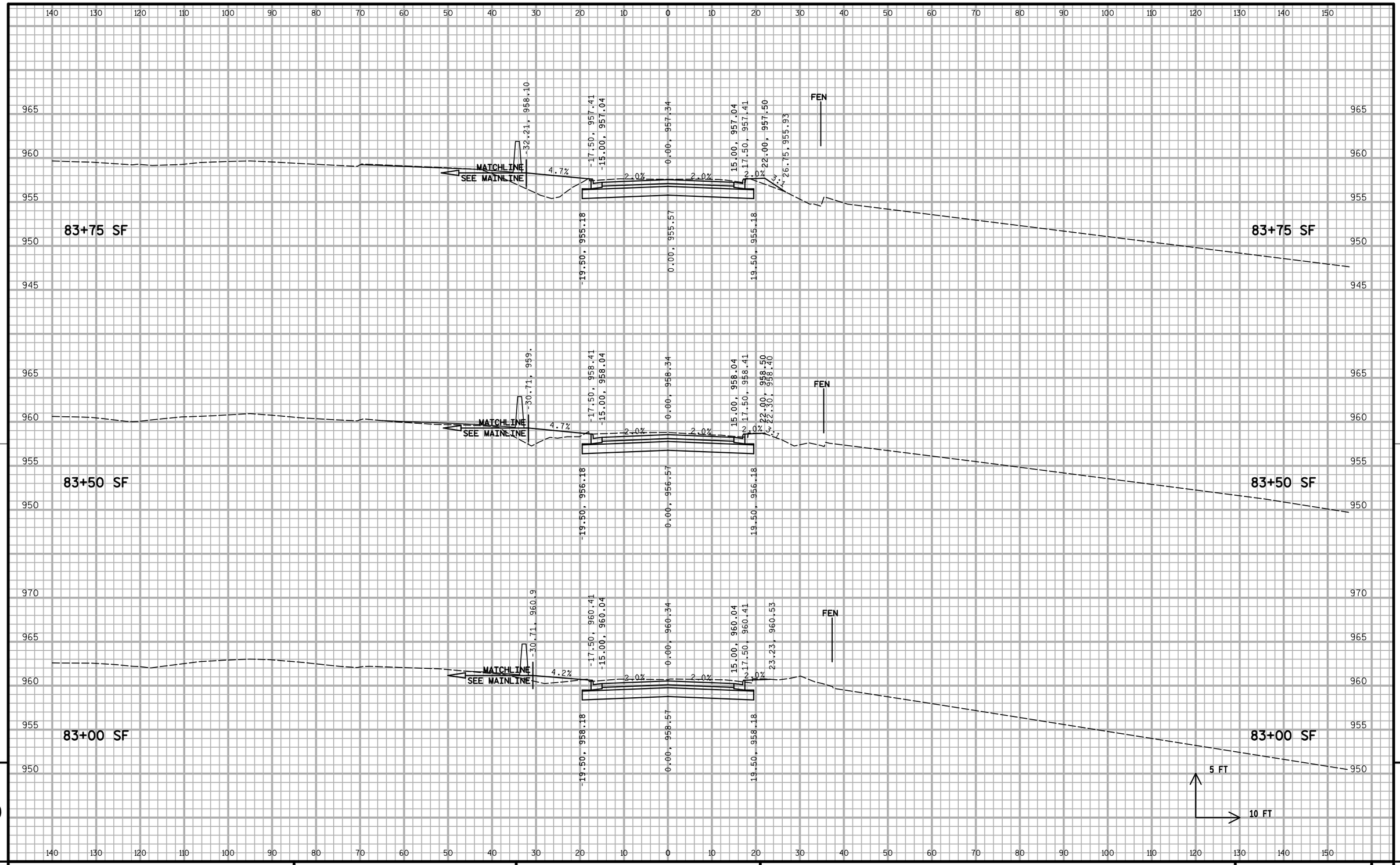
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1361	E

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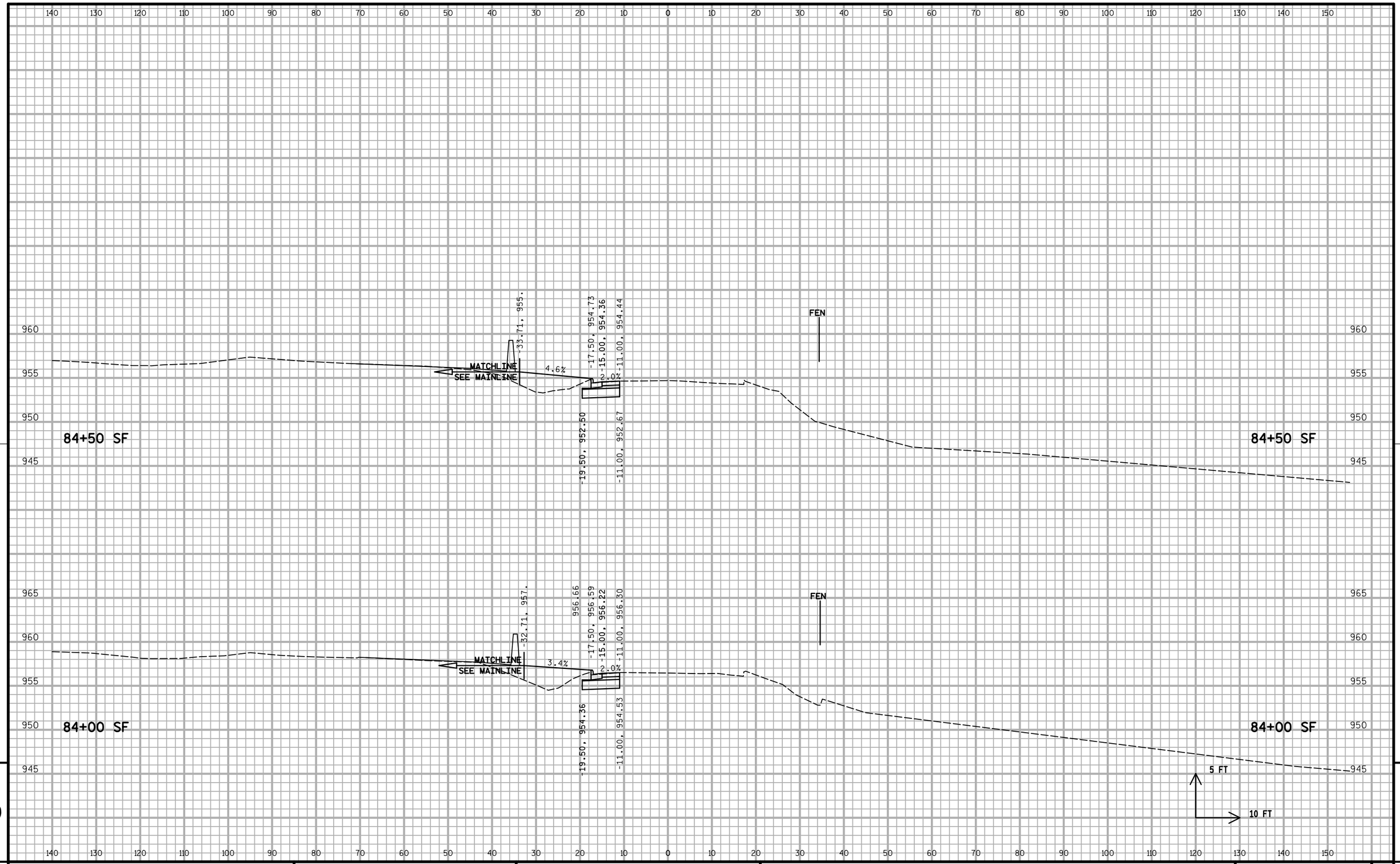
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET	E

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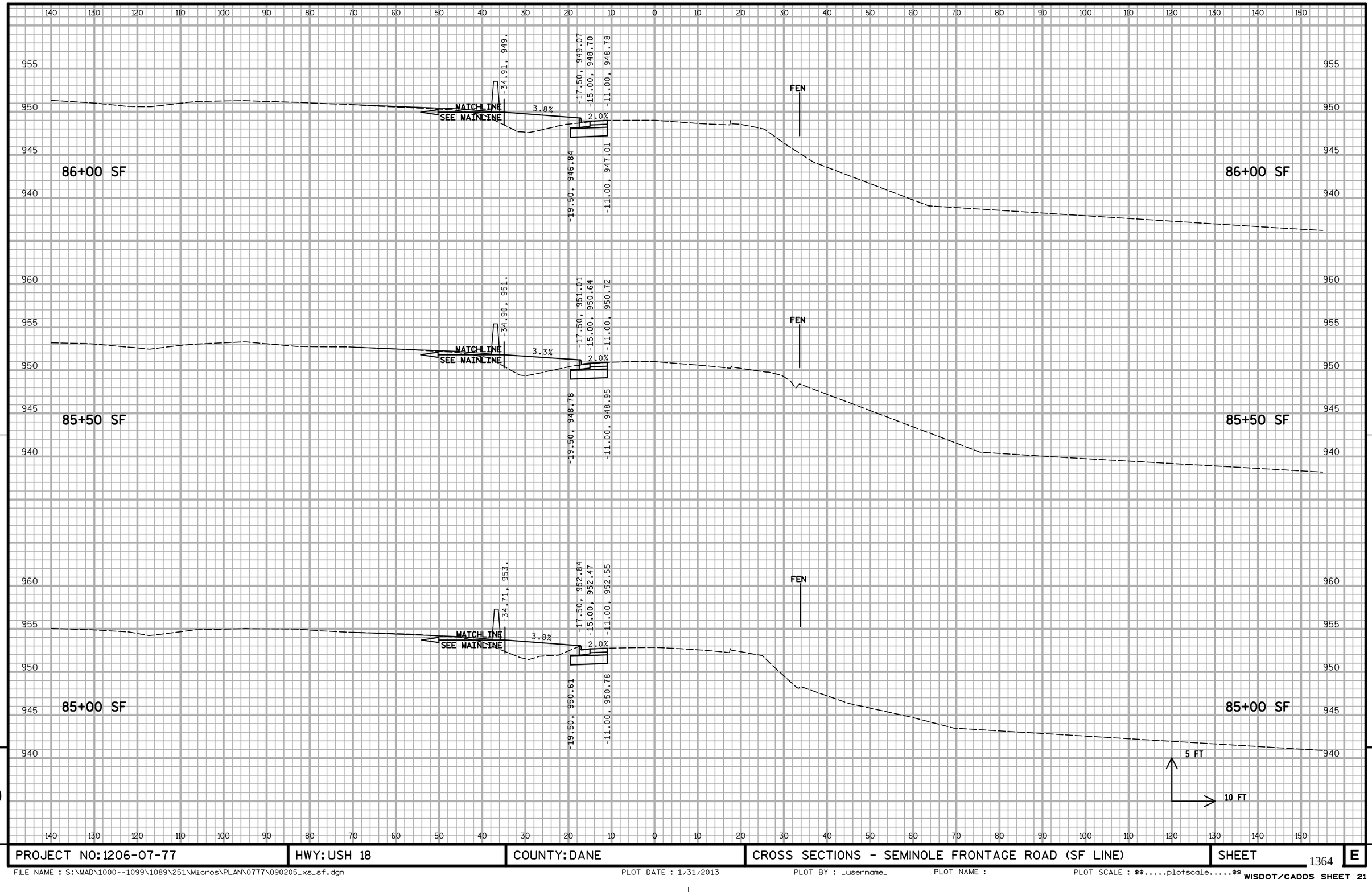
WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1363	E

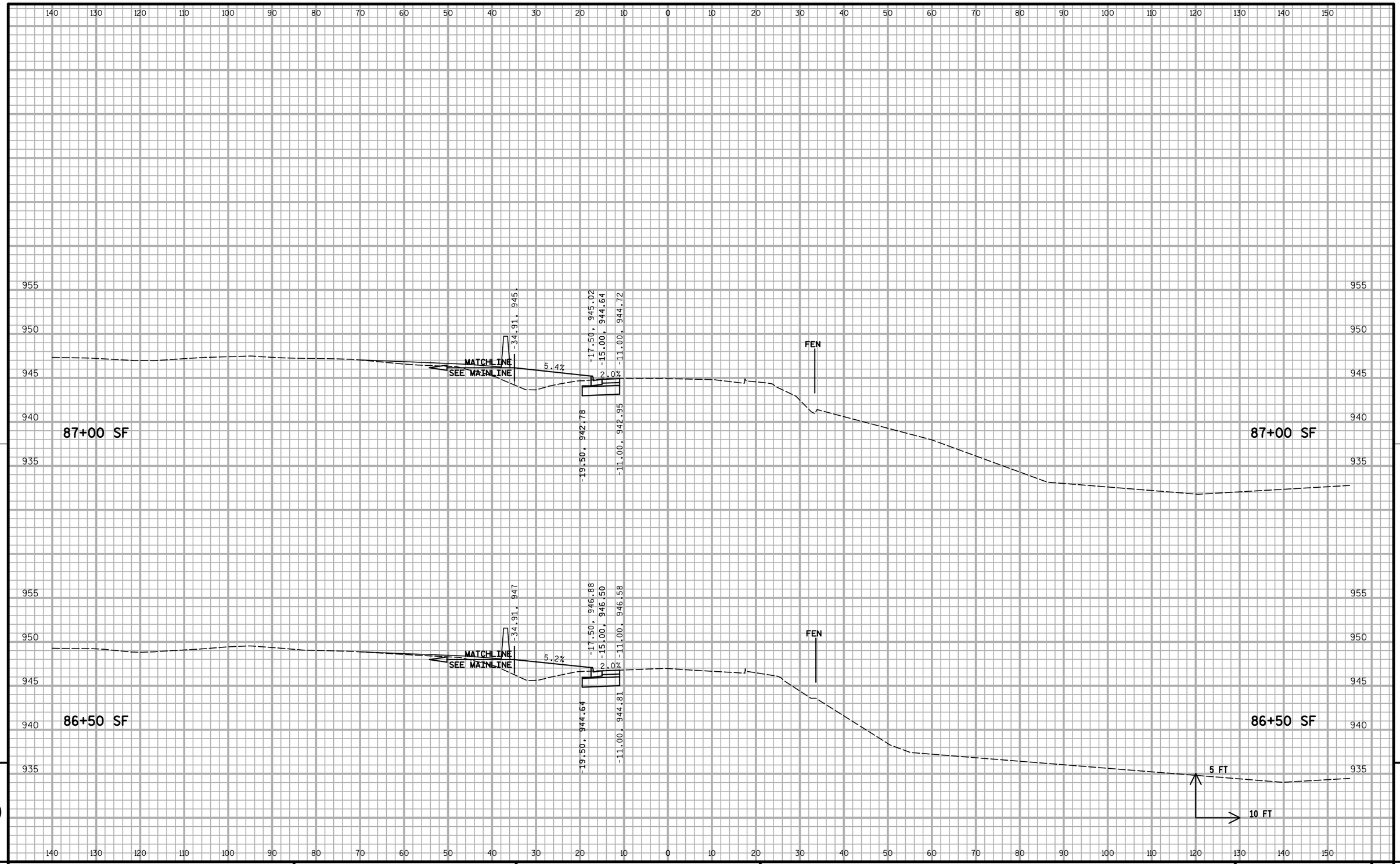
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WISDOT/CADDS SHEET 21



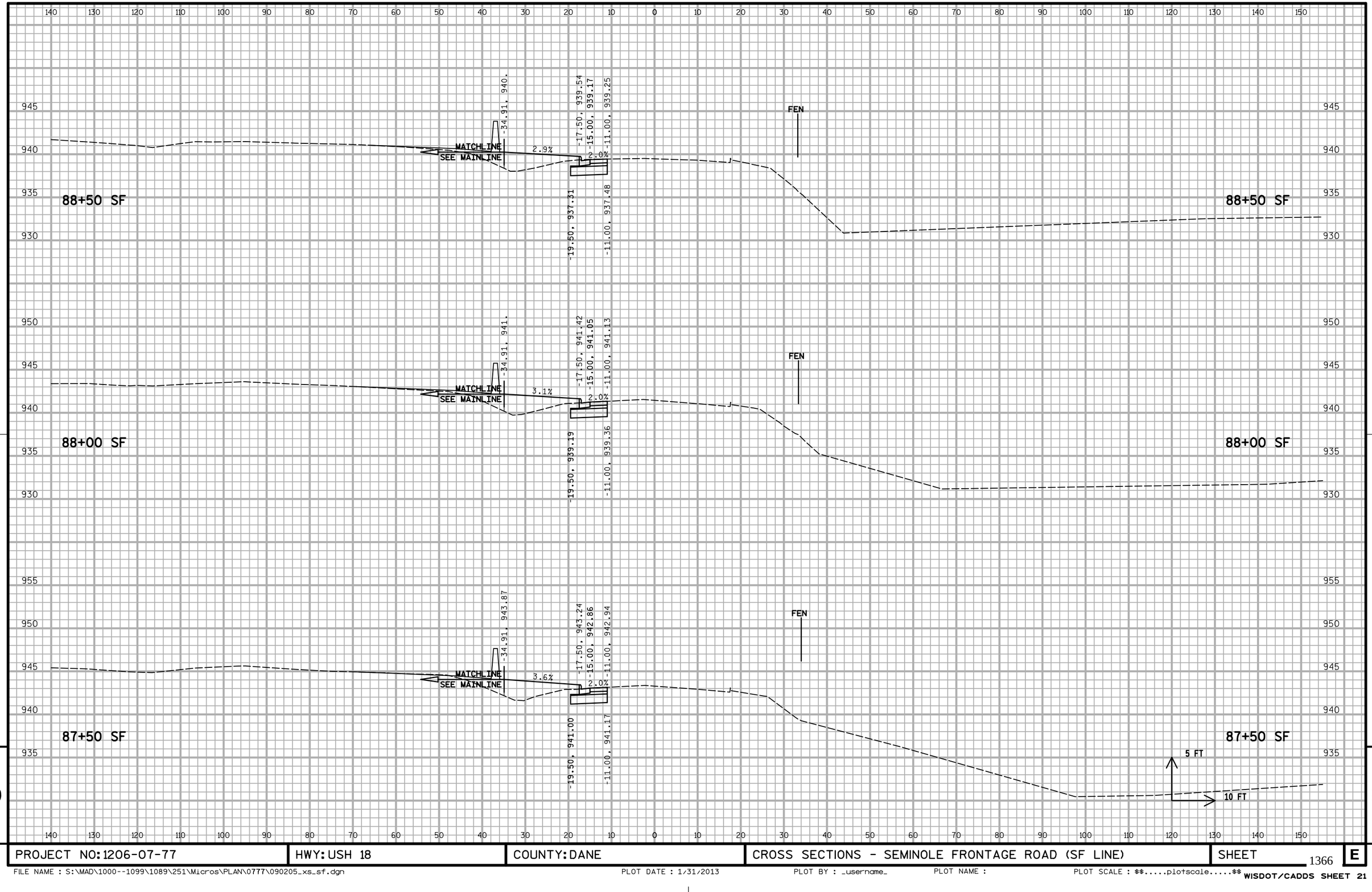
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1364	E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1365	E

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1366	E

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END CONSTRUCTION
STA. 89+50 SF

945
940
935
930
925

-34.91, 936.20
-27.70, 935.00
-23.94, 935.00
-17.50, 936.05
-15.00, 935.68
-11.00, 935.76

MATCHLINE
SEE MAINLINE

6:1

2.0%

FEN

-19.50, 933.82
-11.00, 933.99

89+50 SF

89+50 SF

945
940
935
930

-34.91, 938.(
-17.50, 937.71
-15.00, 937.33
-11.00, 937.41

MATCHLINE
SEE MAINLINE

1.8%

2.0%

FEN

-19.50, 935.47
-11.00, 935.64

89+00 SF

89+00 SF

5 FT

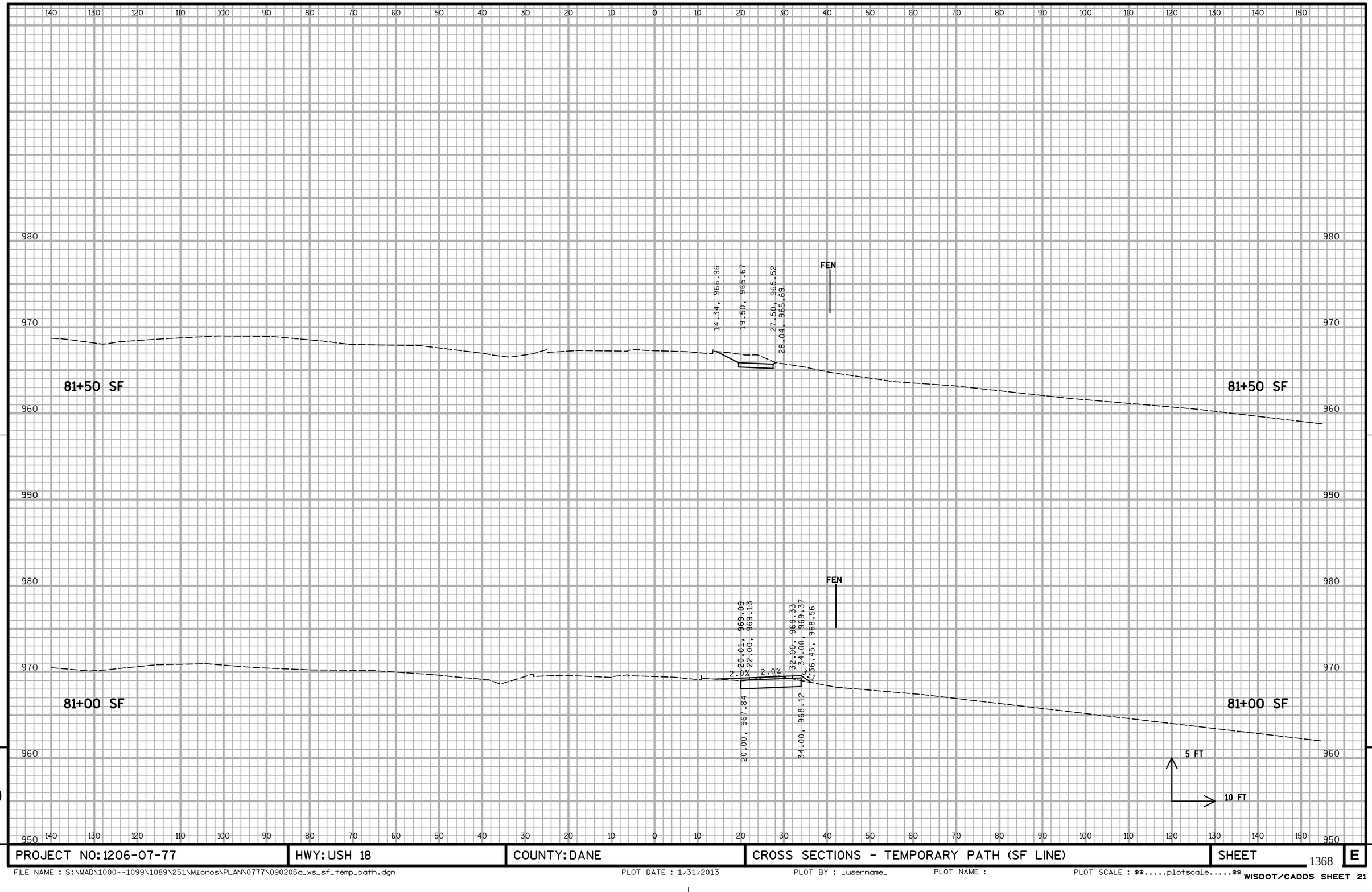
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE FRONTAGE ROAD (SF LINE)	SHEET 1367	E

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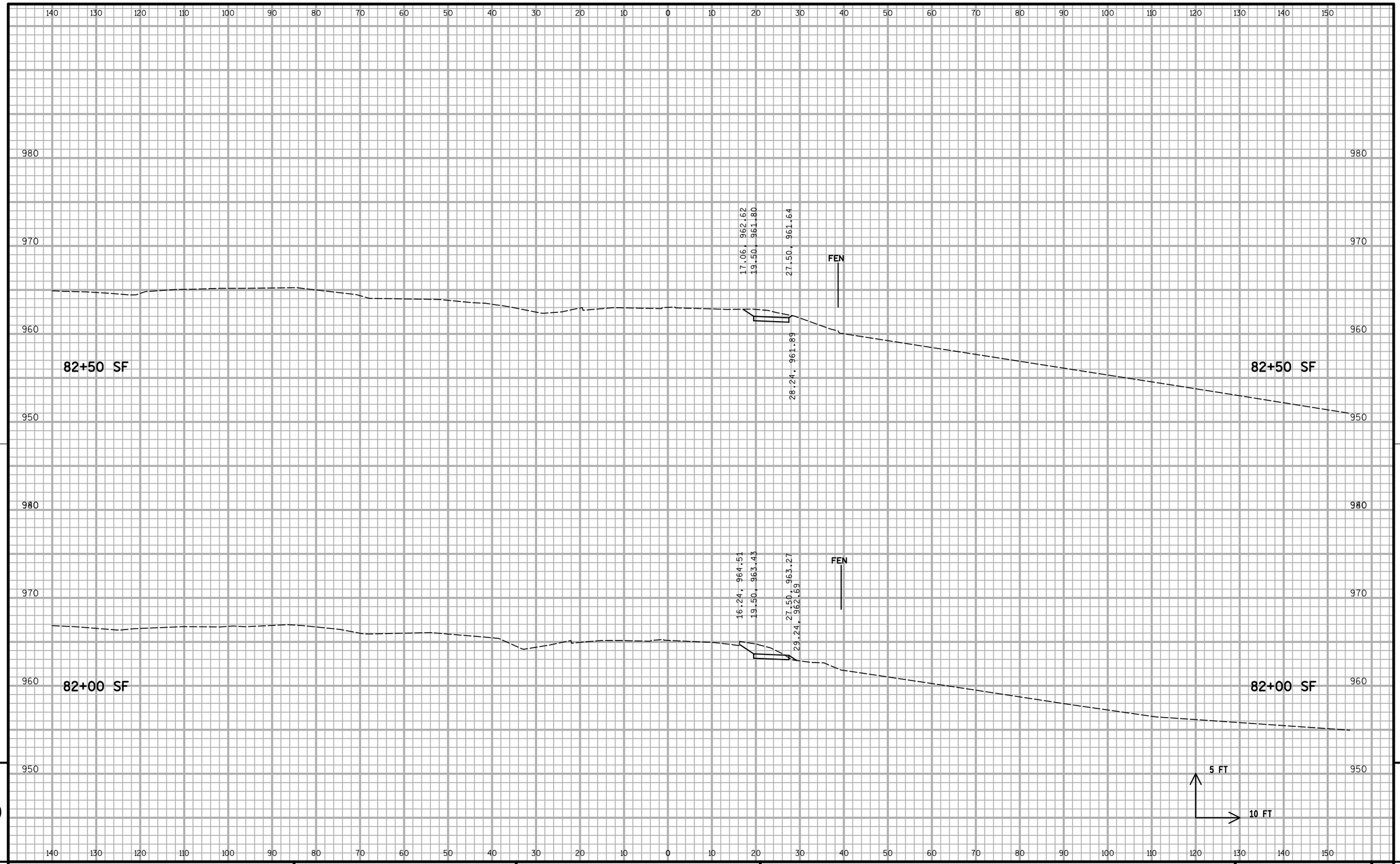


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - TEMPORARY PATH (SF LINE)	SHEET 1368	E

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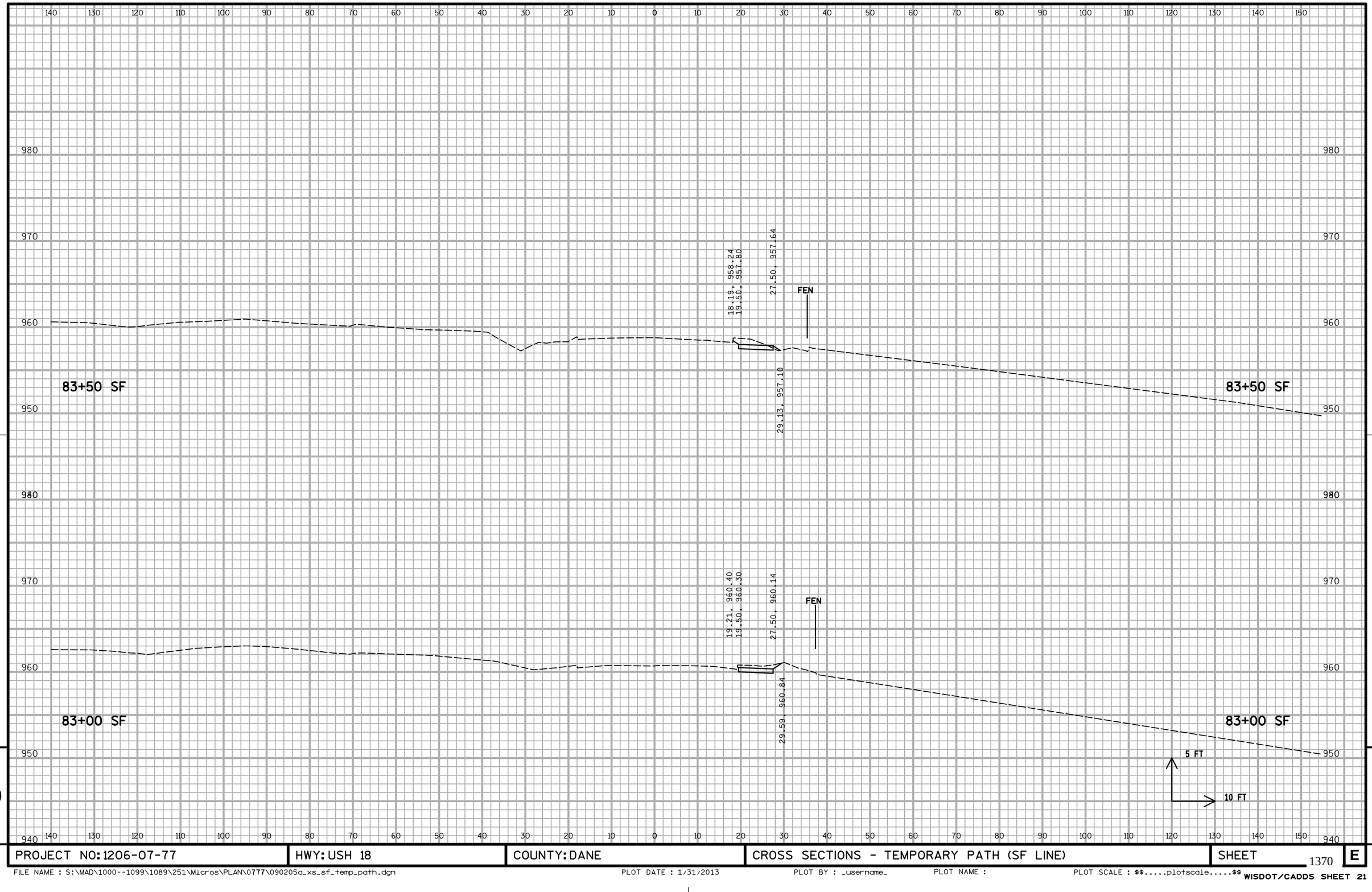


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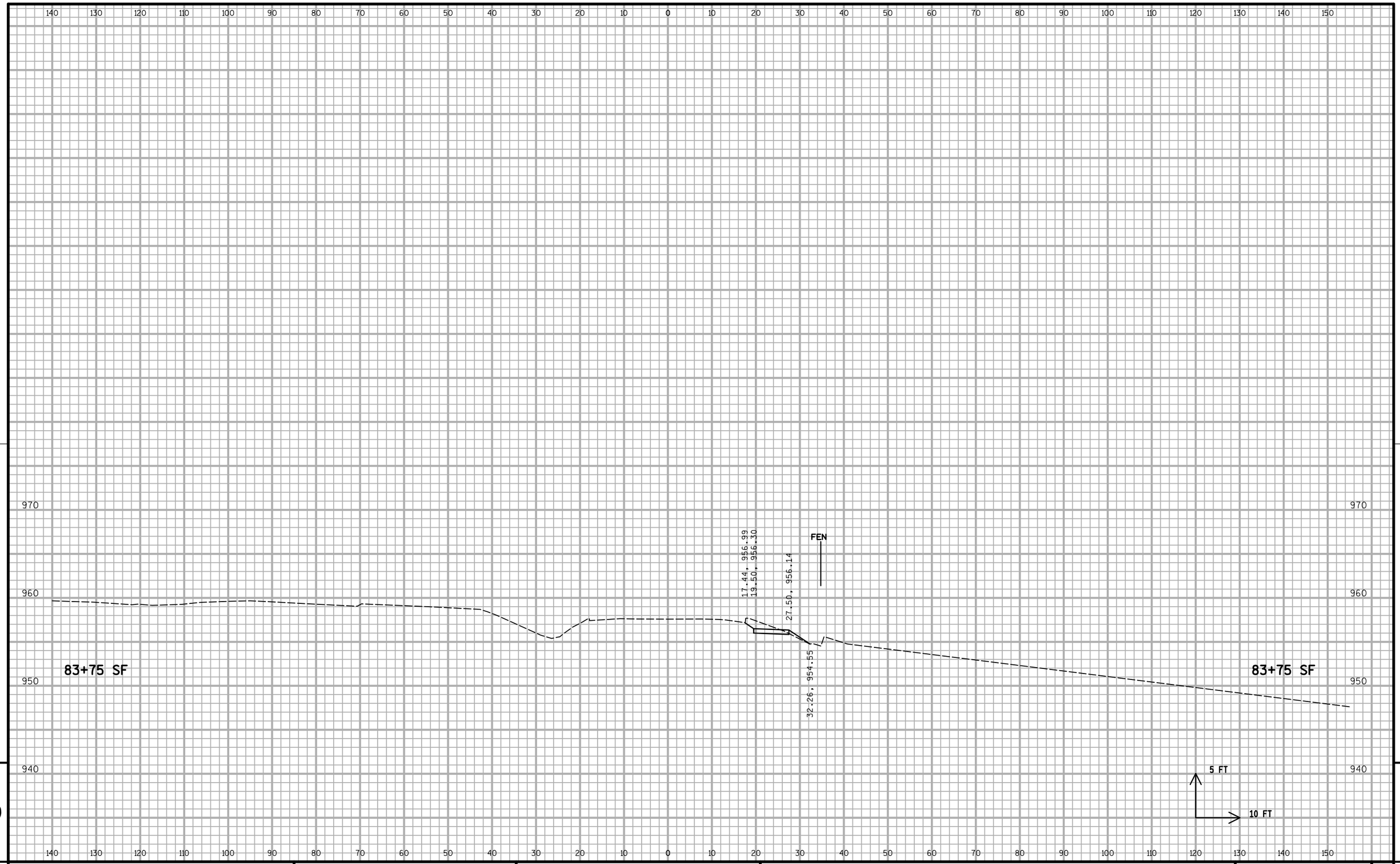
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - TEMPORARY PATH (SF LINE)	SHEET 1370 E

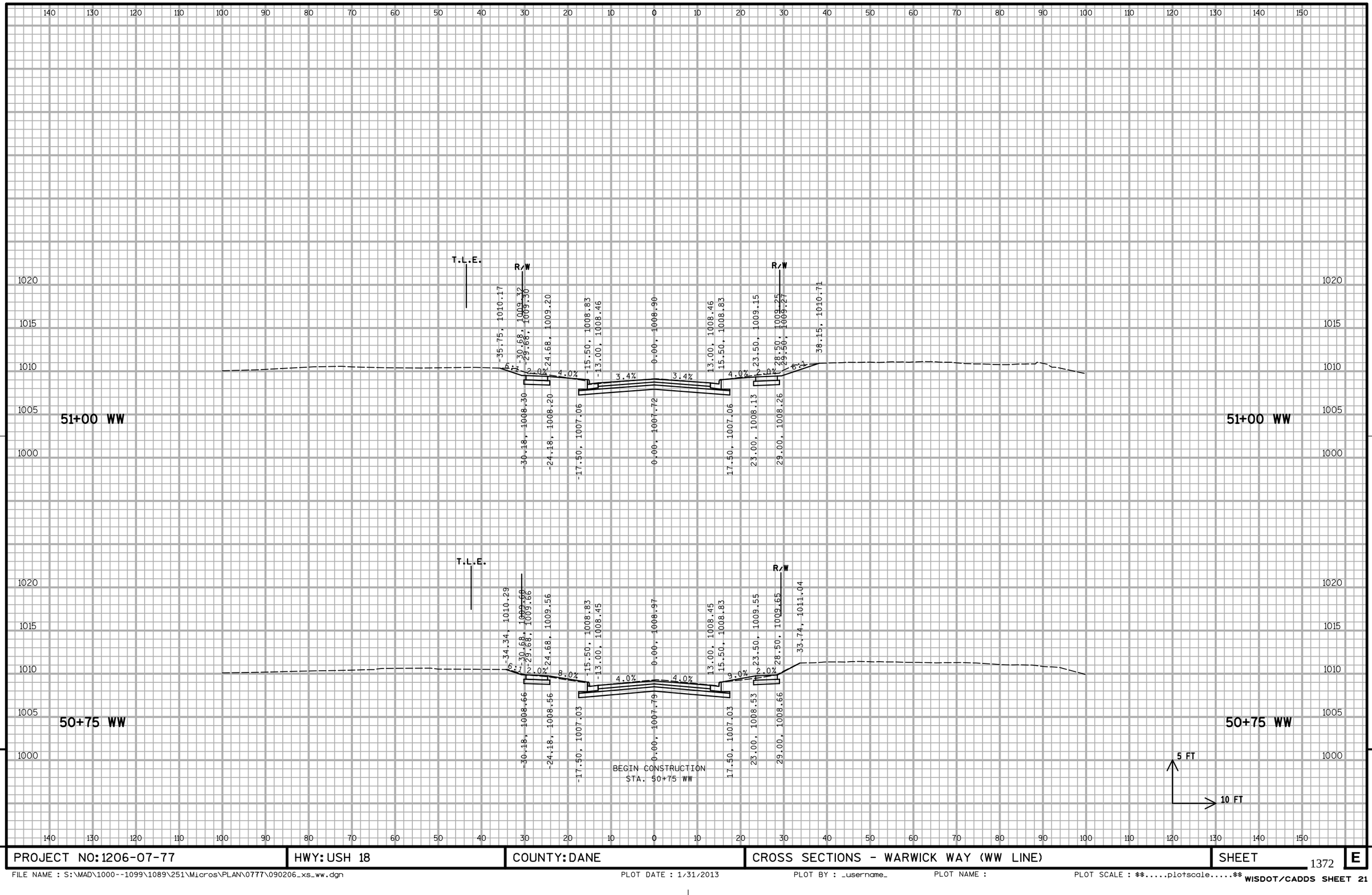
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - TEMPORARY PATH (SF LINE)	SHEET 1371	E

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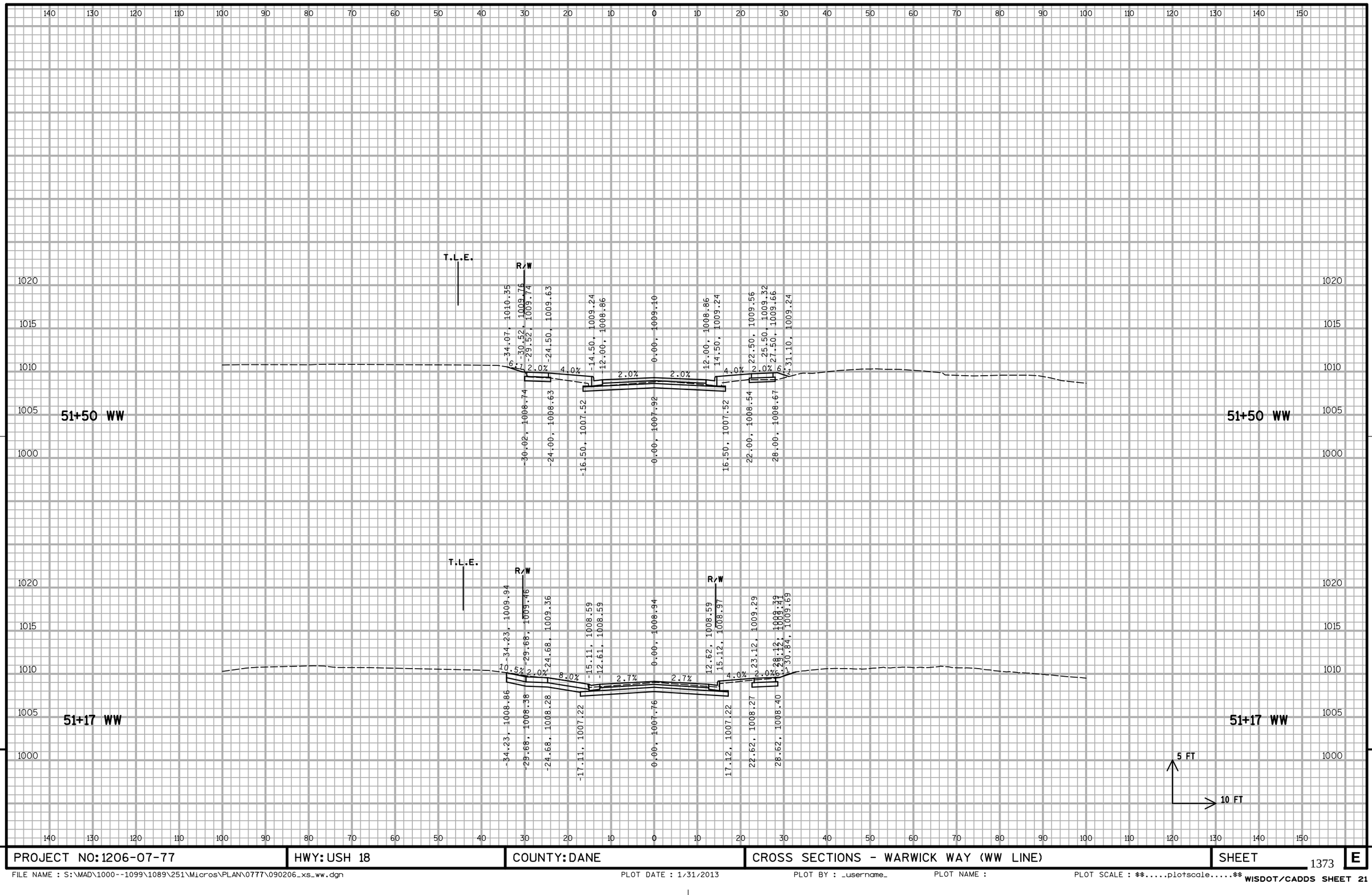


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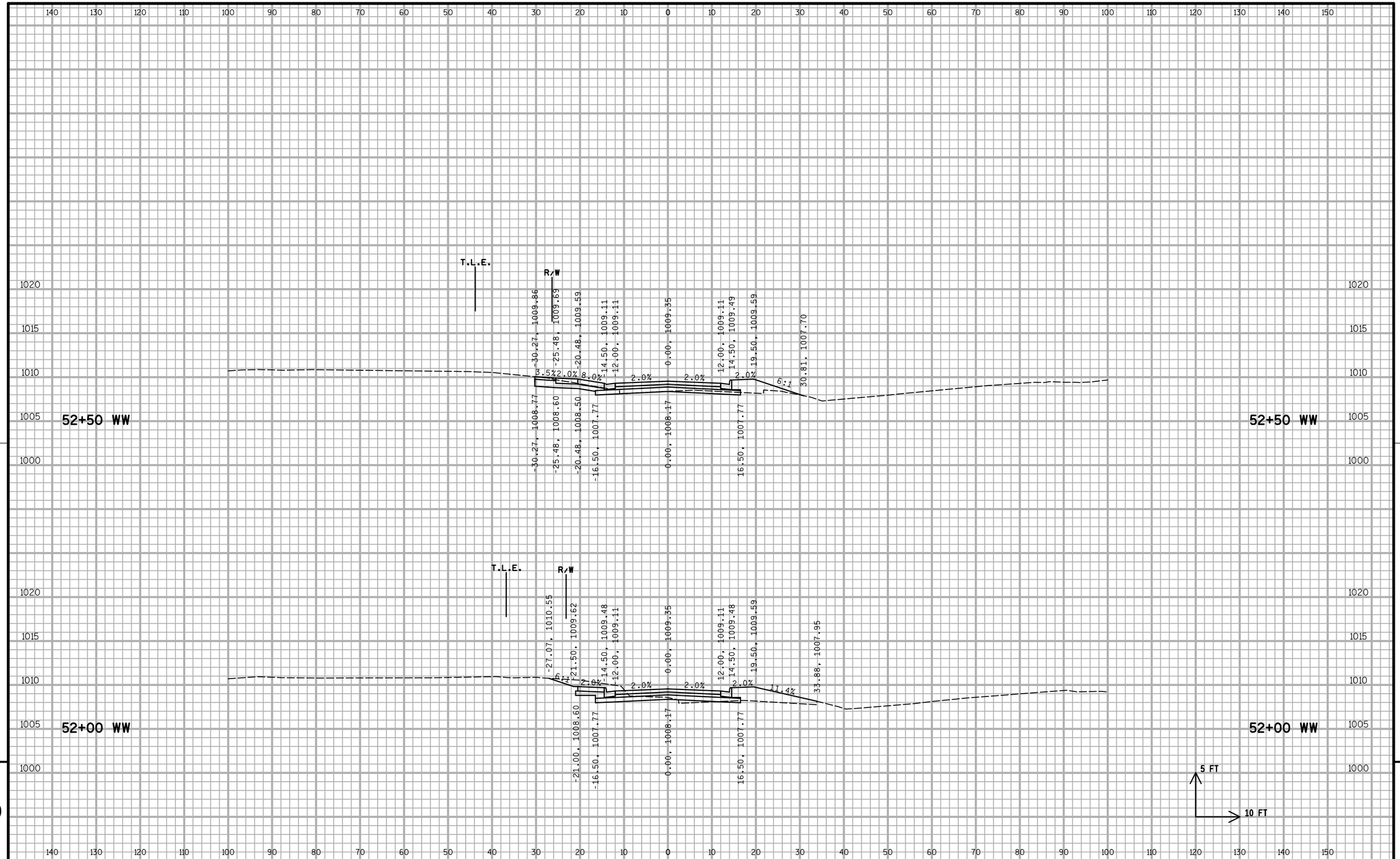
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WARWICK WAY (WW LINE)	SHEET 1373	E

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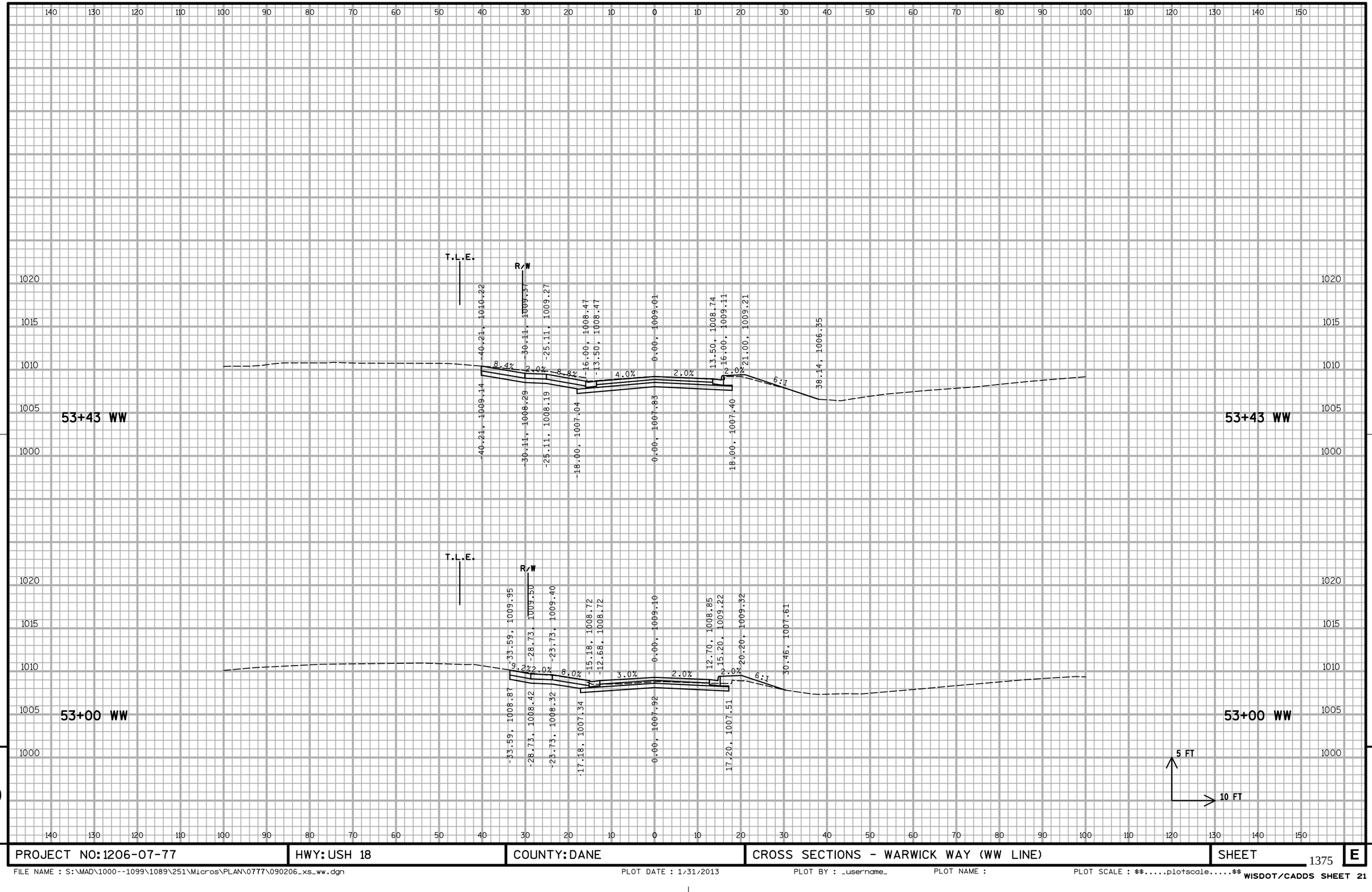


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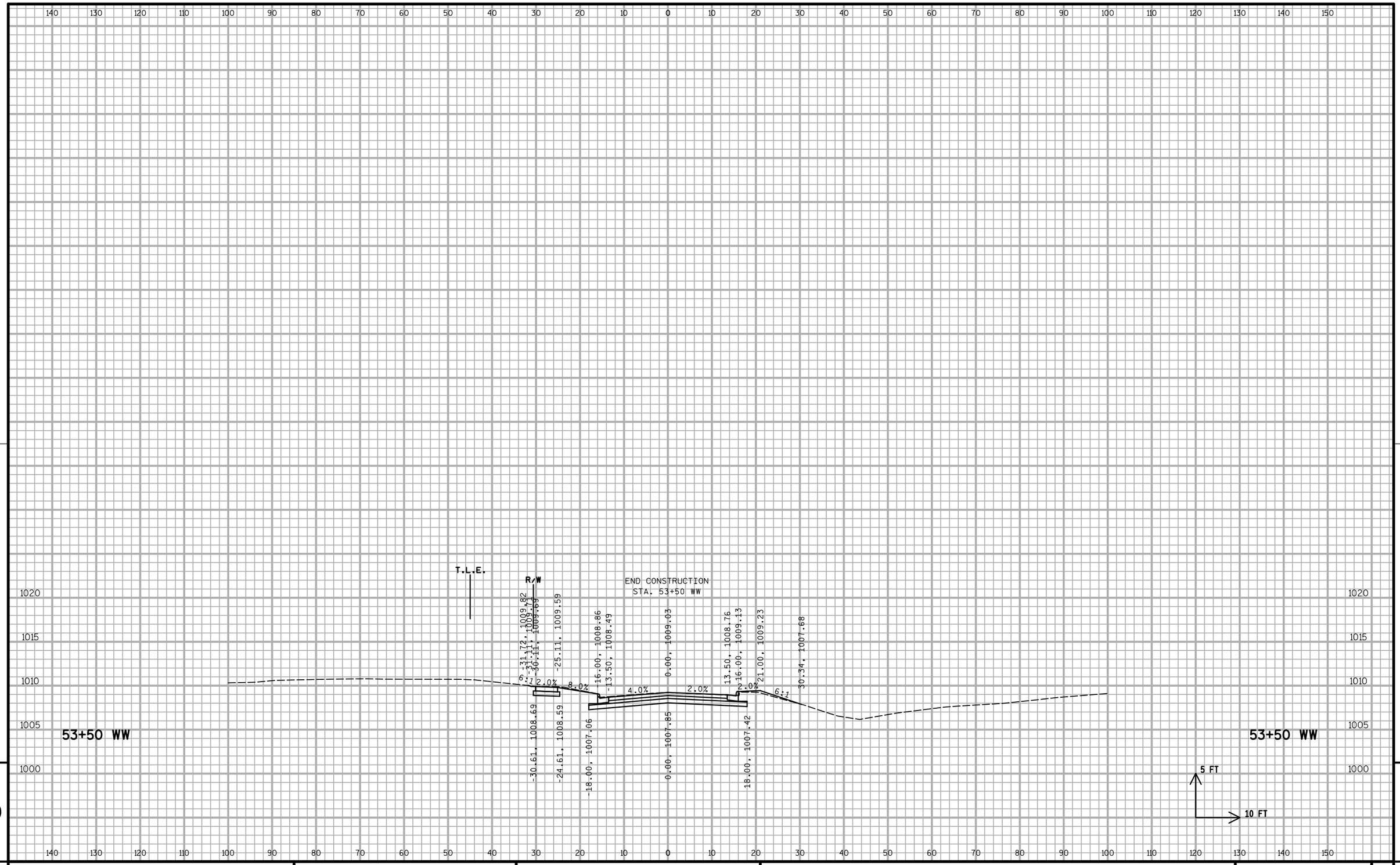
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WARWICK WAY (WW LINE)	SHEET 1375	E

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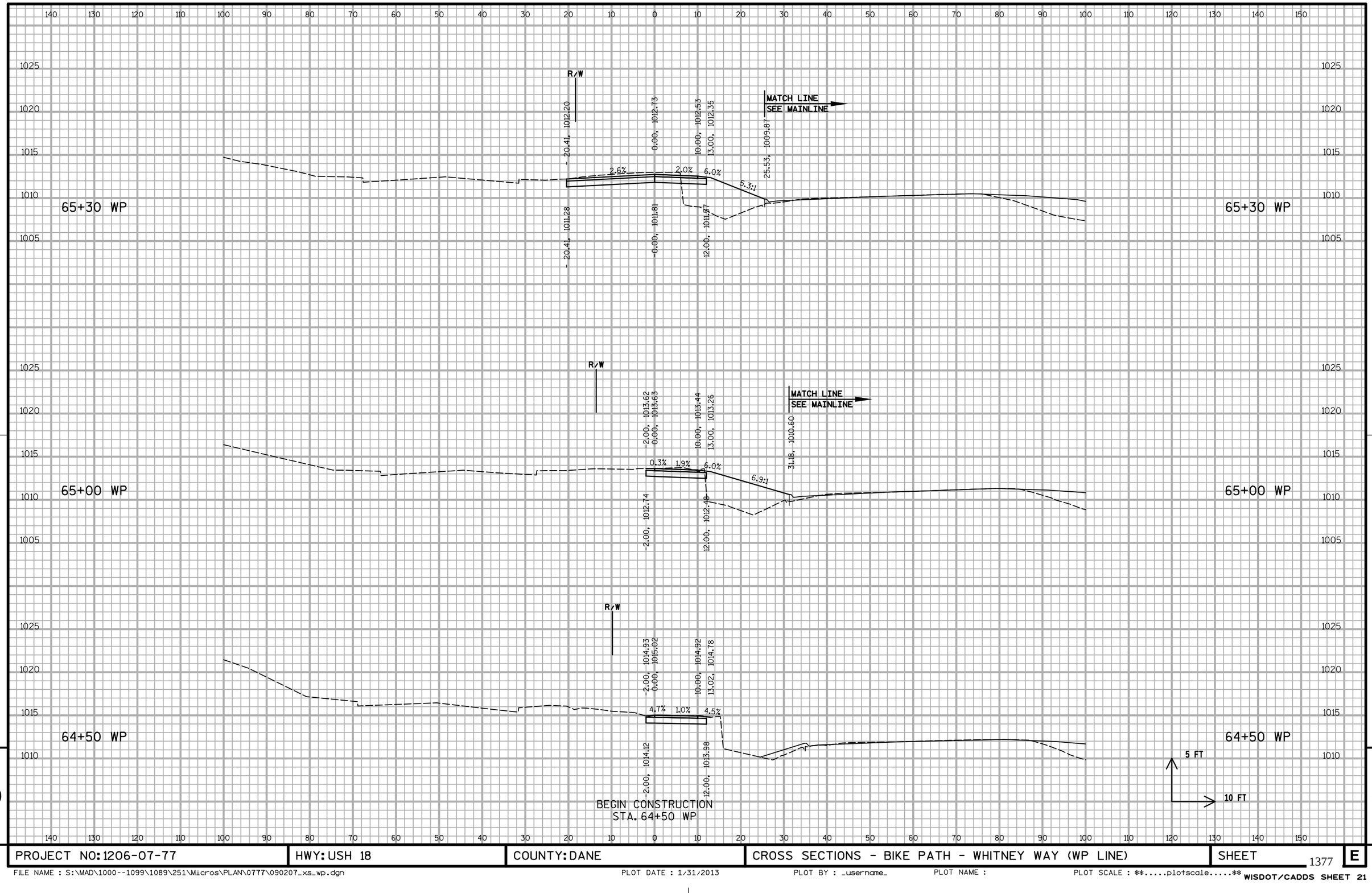
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WARWICK WAY (WW LINE)	SHEET 1376	E

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WISDOT/CADDS SHEET 21

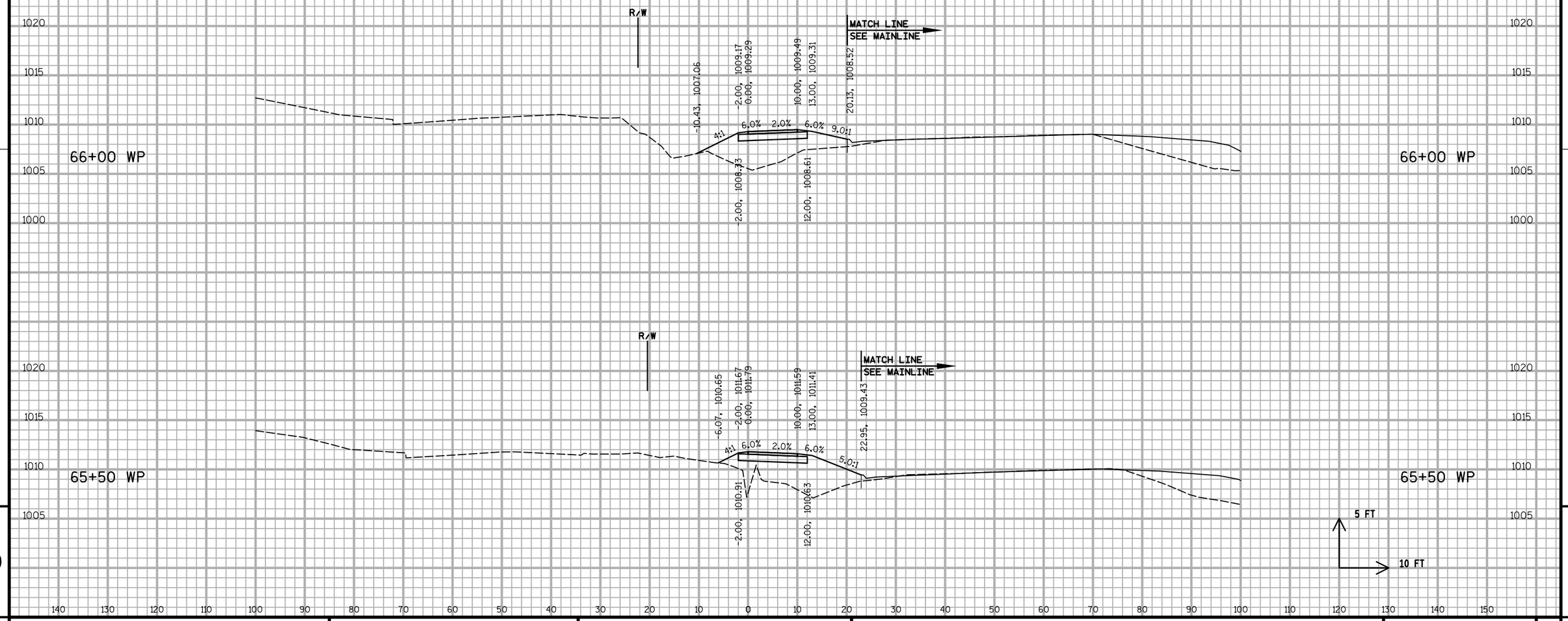


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - BIKE PATH - WHITNEY WAY (WP LINE)	SHEET 1377	E

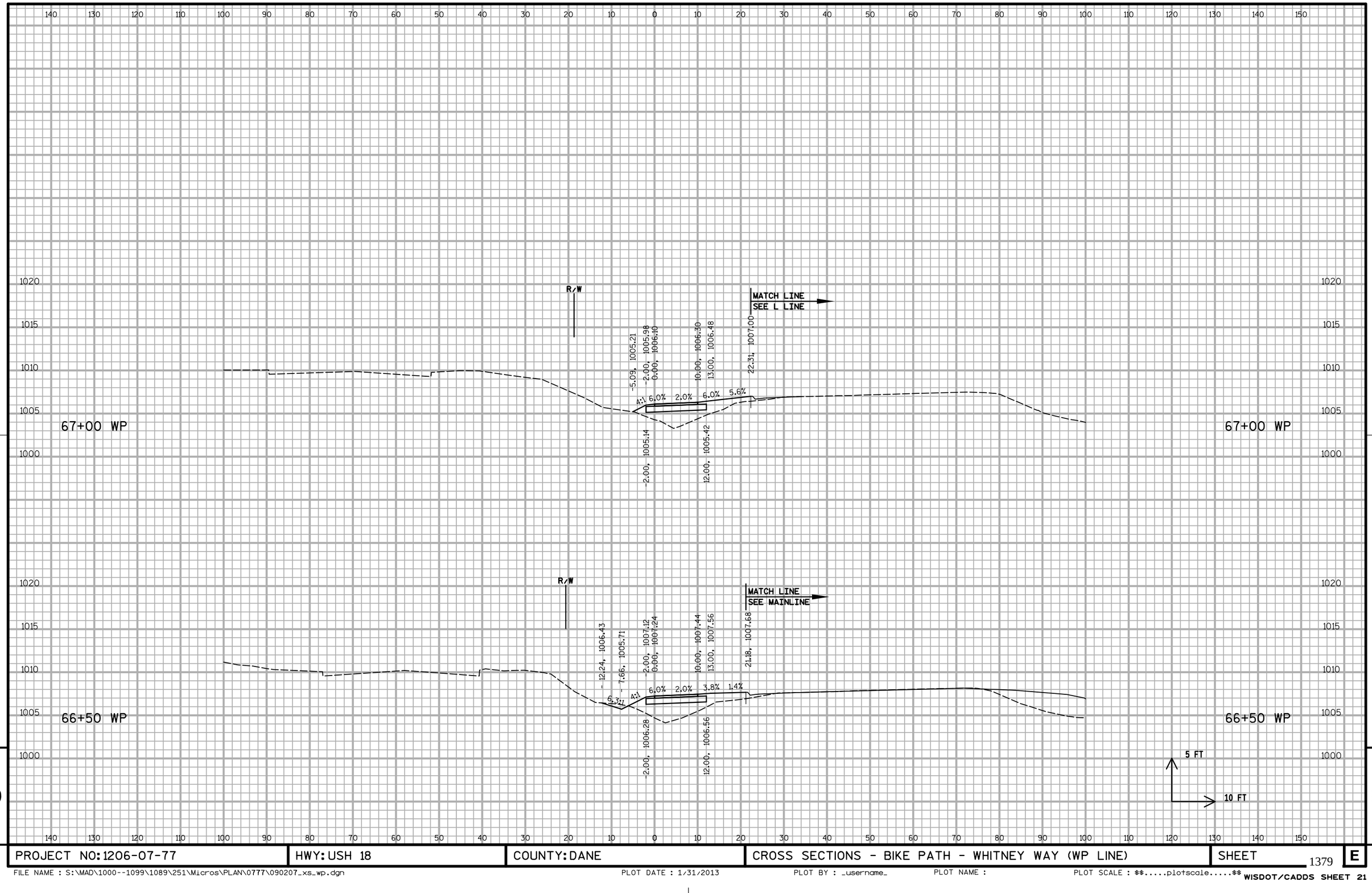
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - BIKE PATH - WHITNEY WAY (WP LINE)	SHEET 1378	E

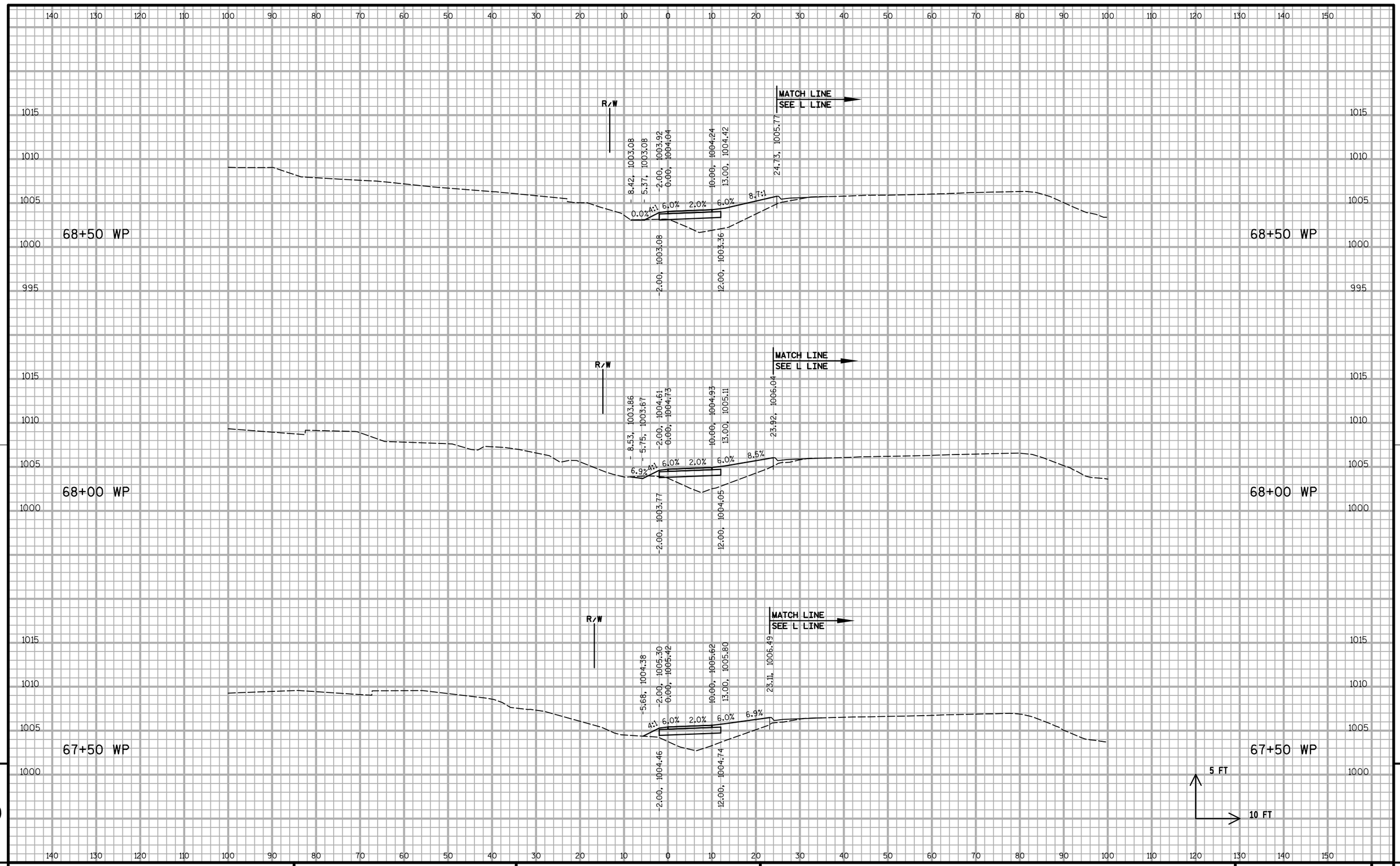
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WISDOT/CADDS SHEET 21



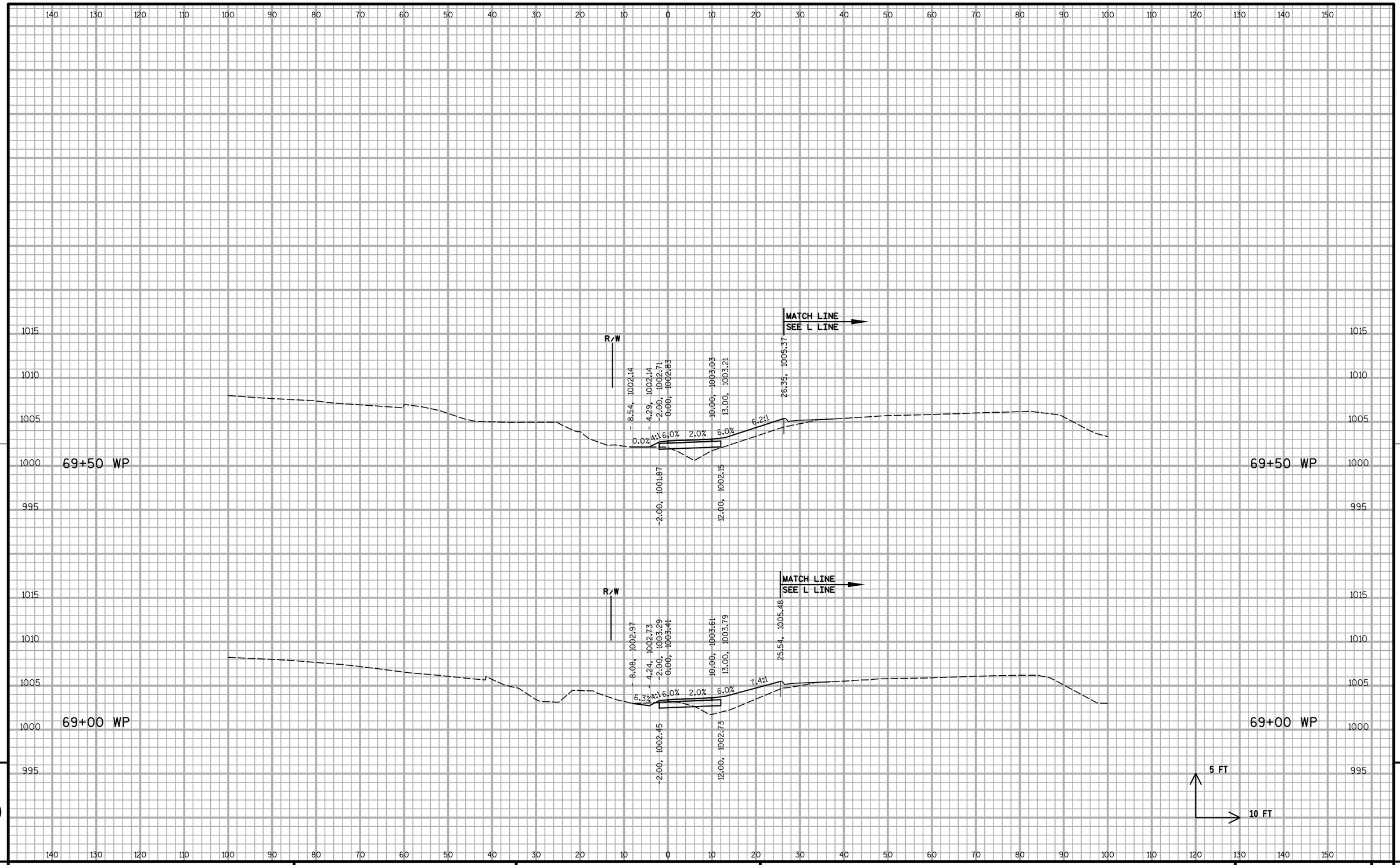
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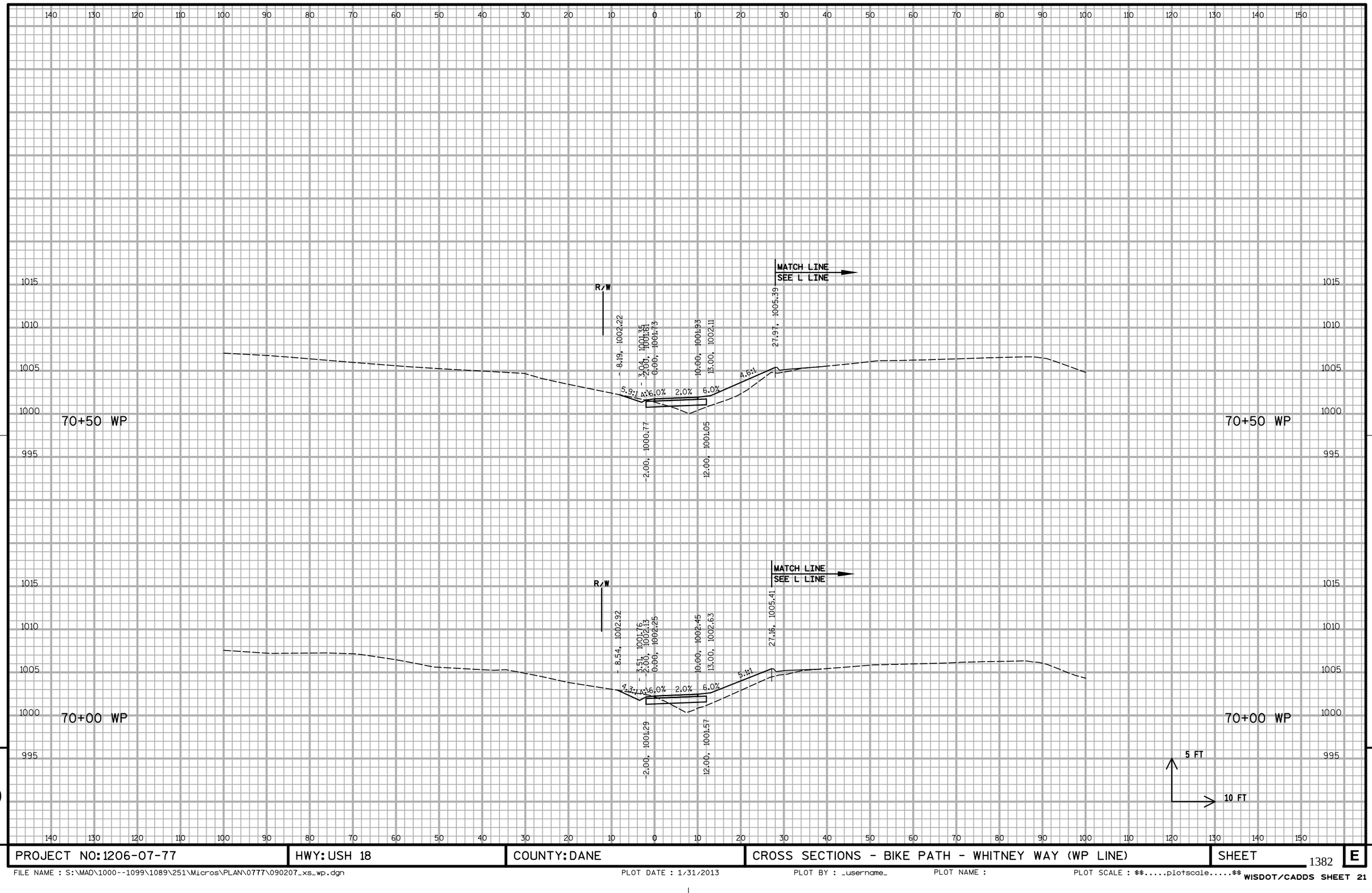
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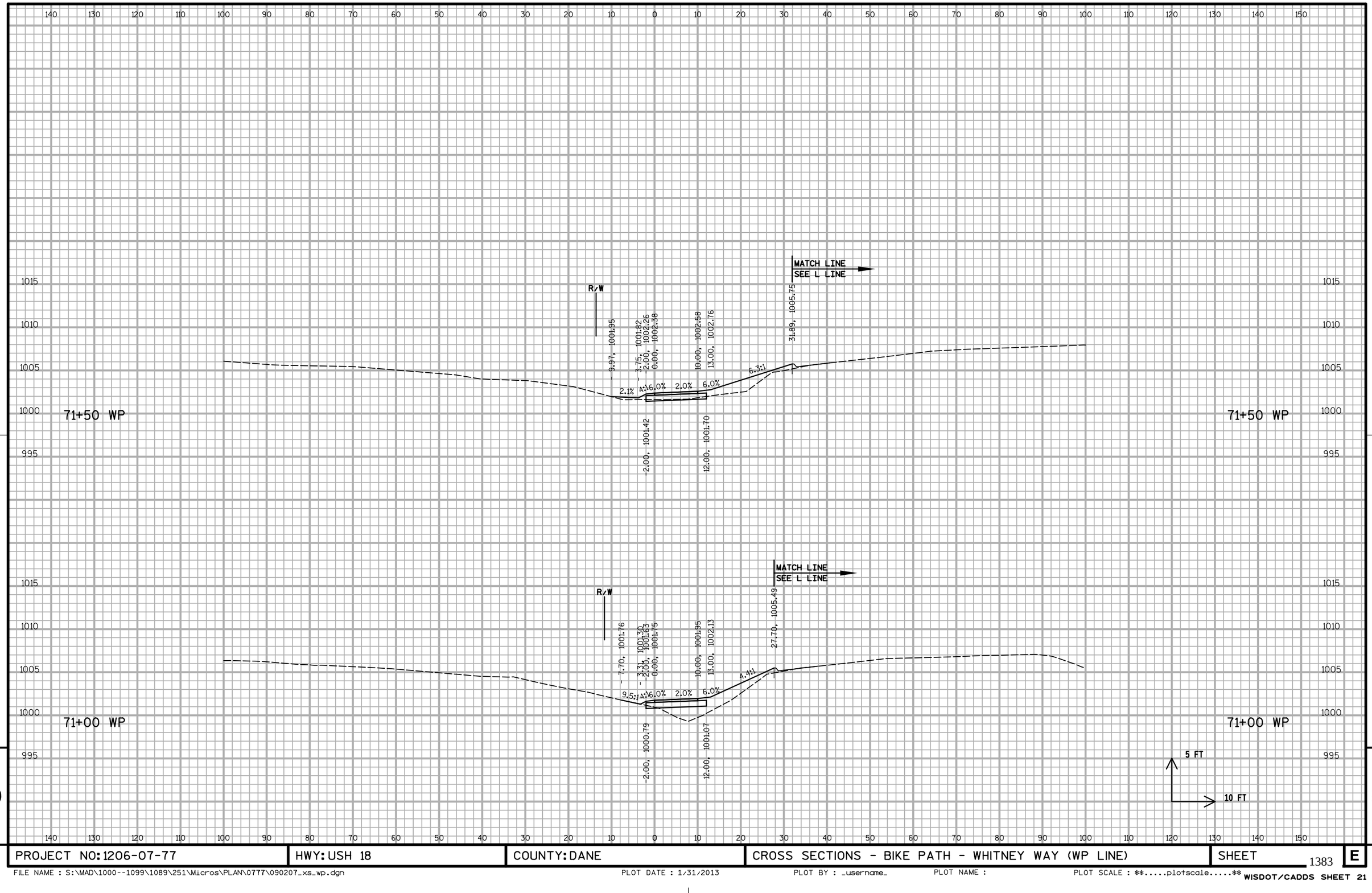
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - BIKE PATH - WHITNEY WAY (WP LINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090207_xs_wp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

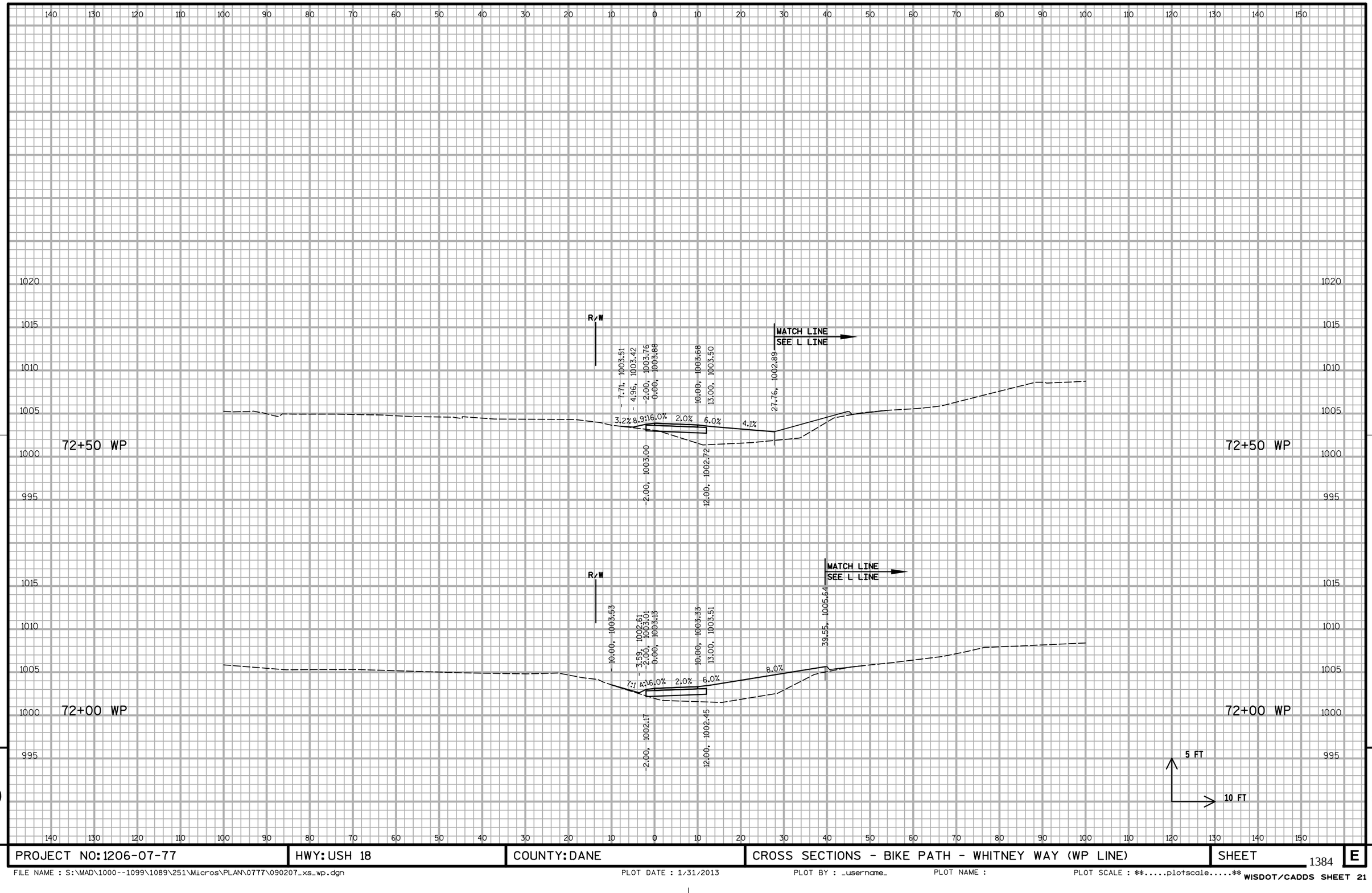


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - BIKE PATH - WHITNEY WAY (WP LINE)	SHEET 1382 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090207_xs_wp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - BIKE PATH - WHITNEY WAY (WP LINE)	SHEET 1383	E

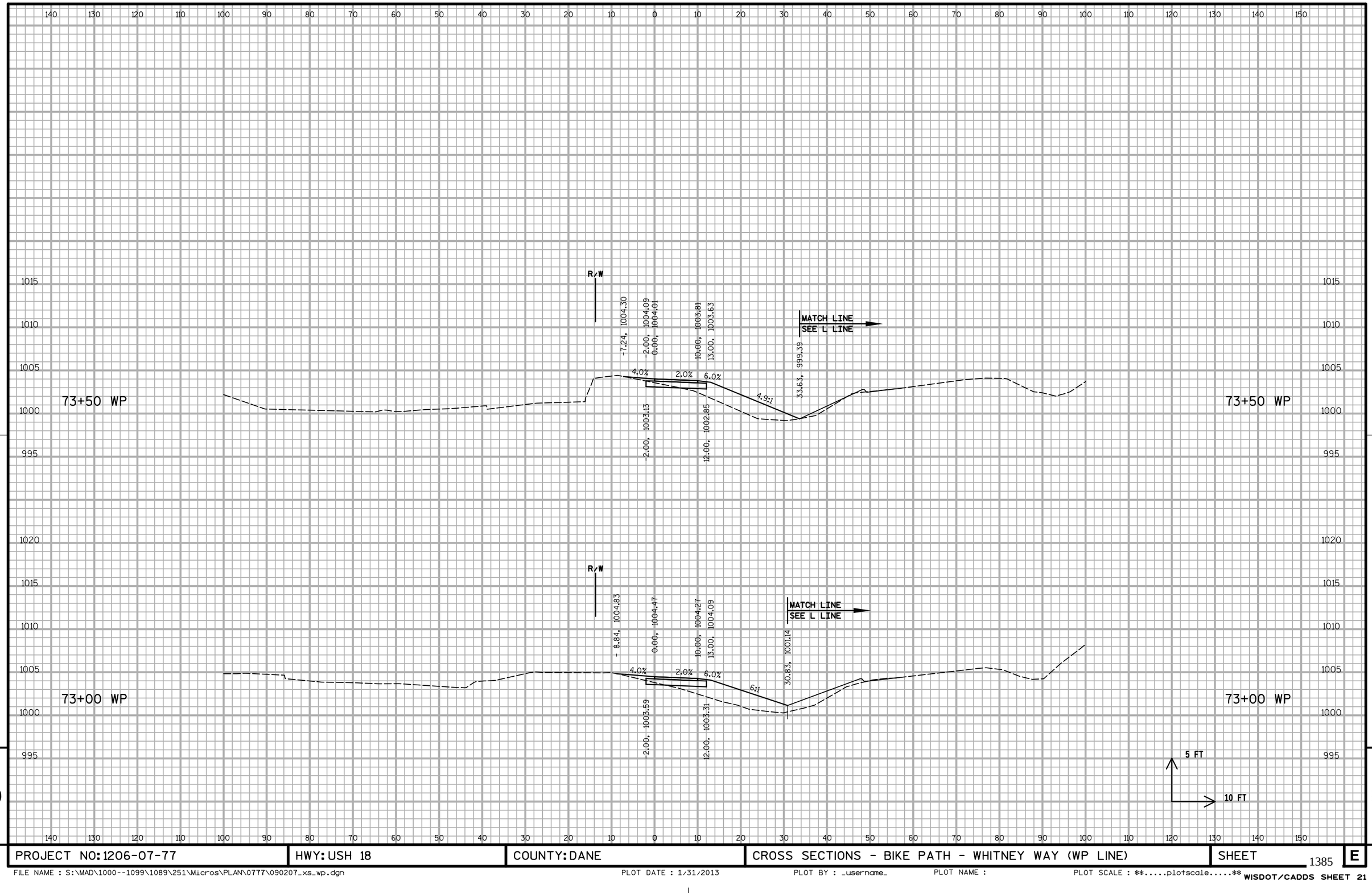


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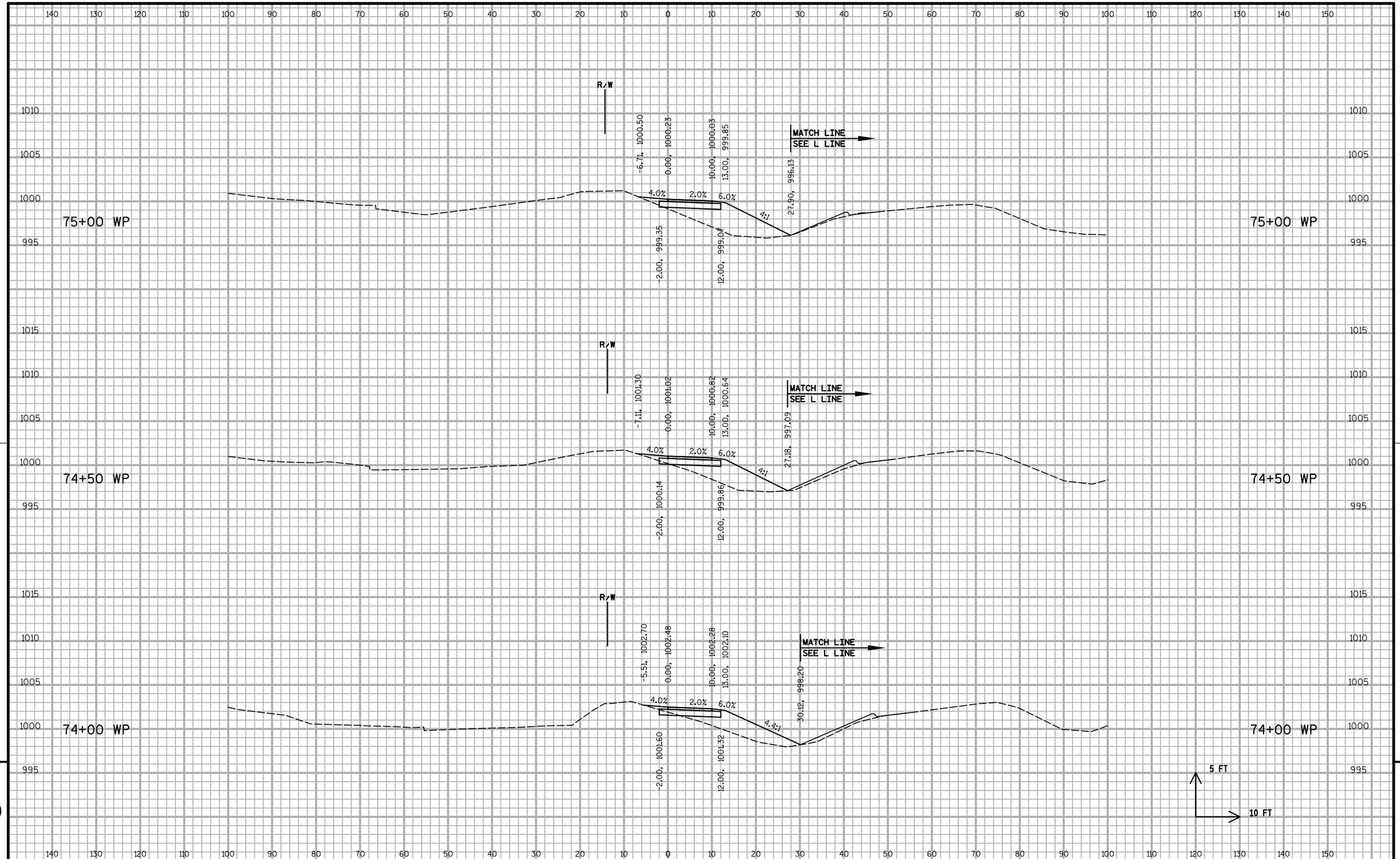
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - BIKE PATH - WHITNEY WAY (WP LINE)	SHEET 1384	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090207_xs_wp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



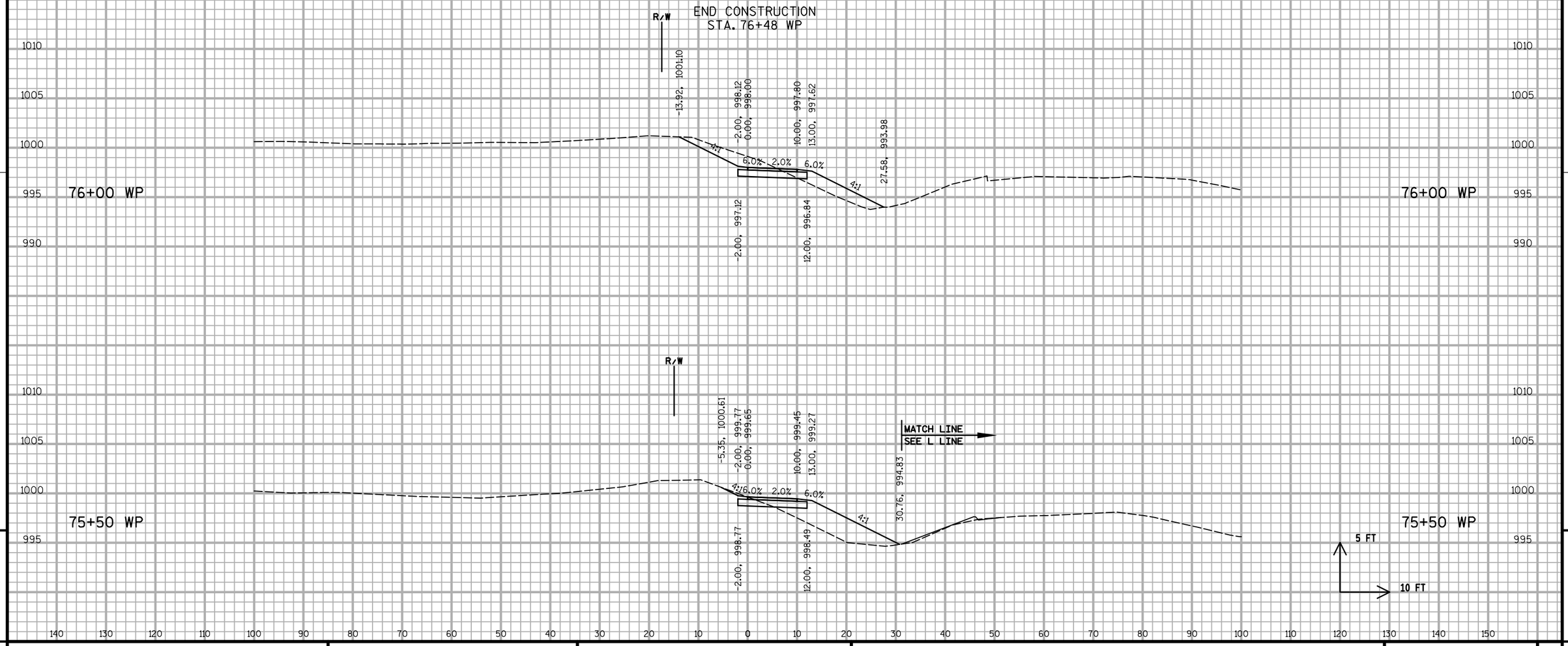
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - BIKE PATH - WHITNEY WAY (WP LINE)	SHEET 1385	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090207_xs_wp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - BIKE PATH - WHITNEY WAY (WP LINE)	SHEET 1386 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090207_xs_wp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



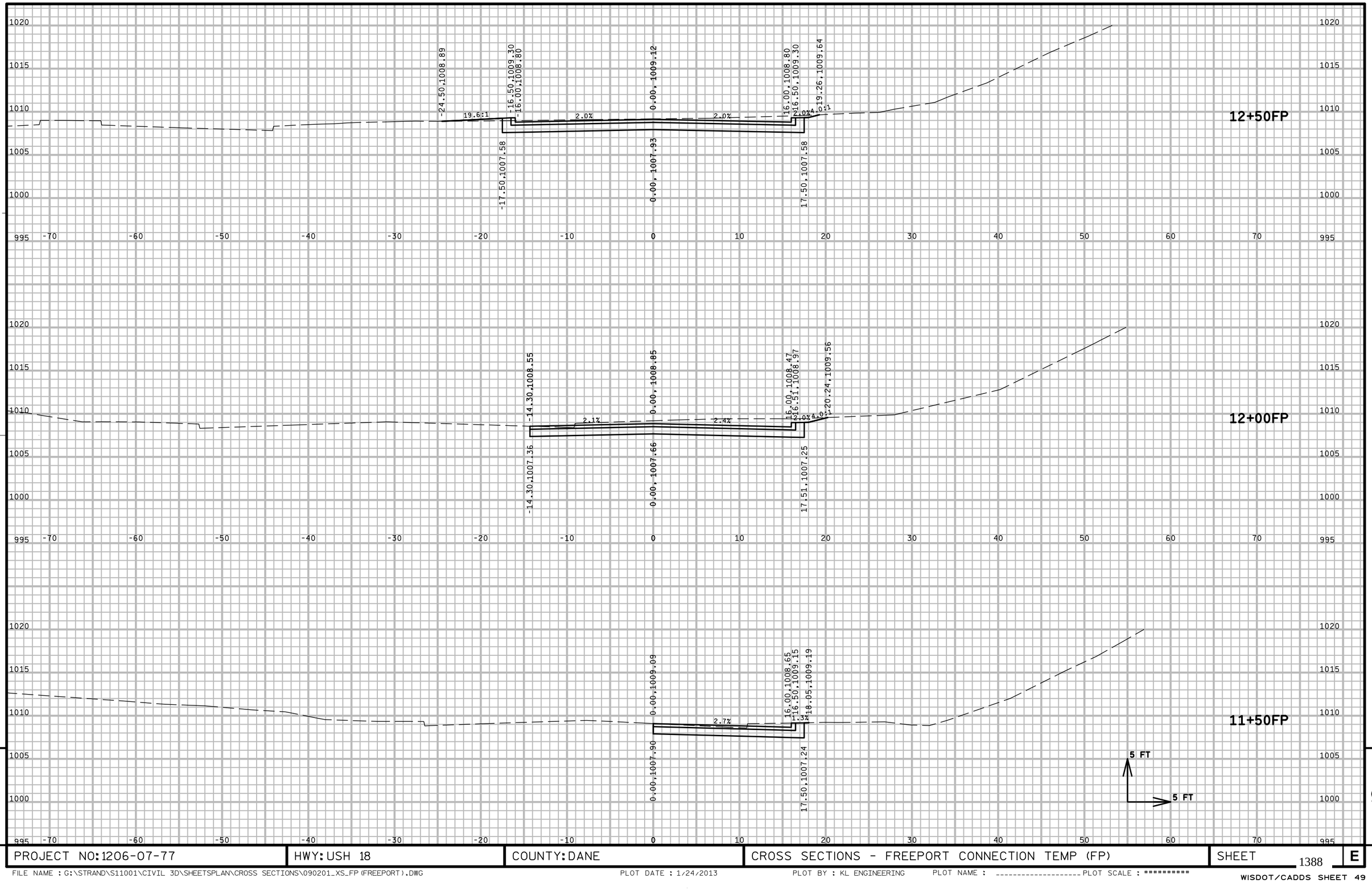
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - BIKE PATH - WHITNEY WAY (WP LINE)	SHEET 1387	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090207_xs_wp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



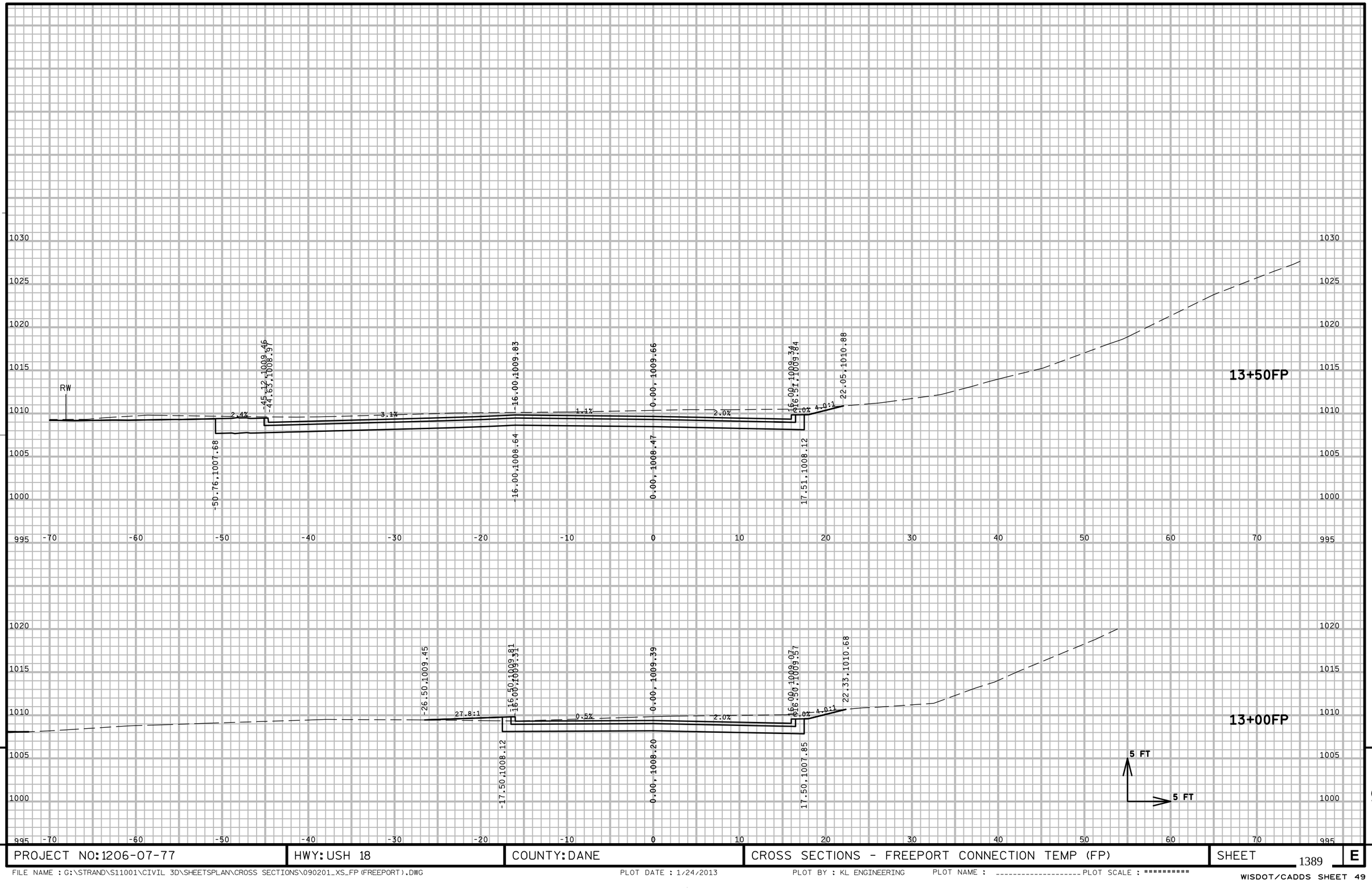
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FREEPORT CONNECTION TEMP (FP)	SHEET 1388	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_FP(FREEPORT).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : **********

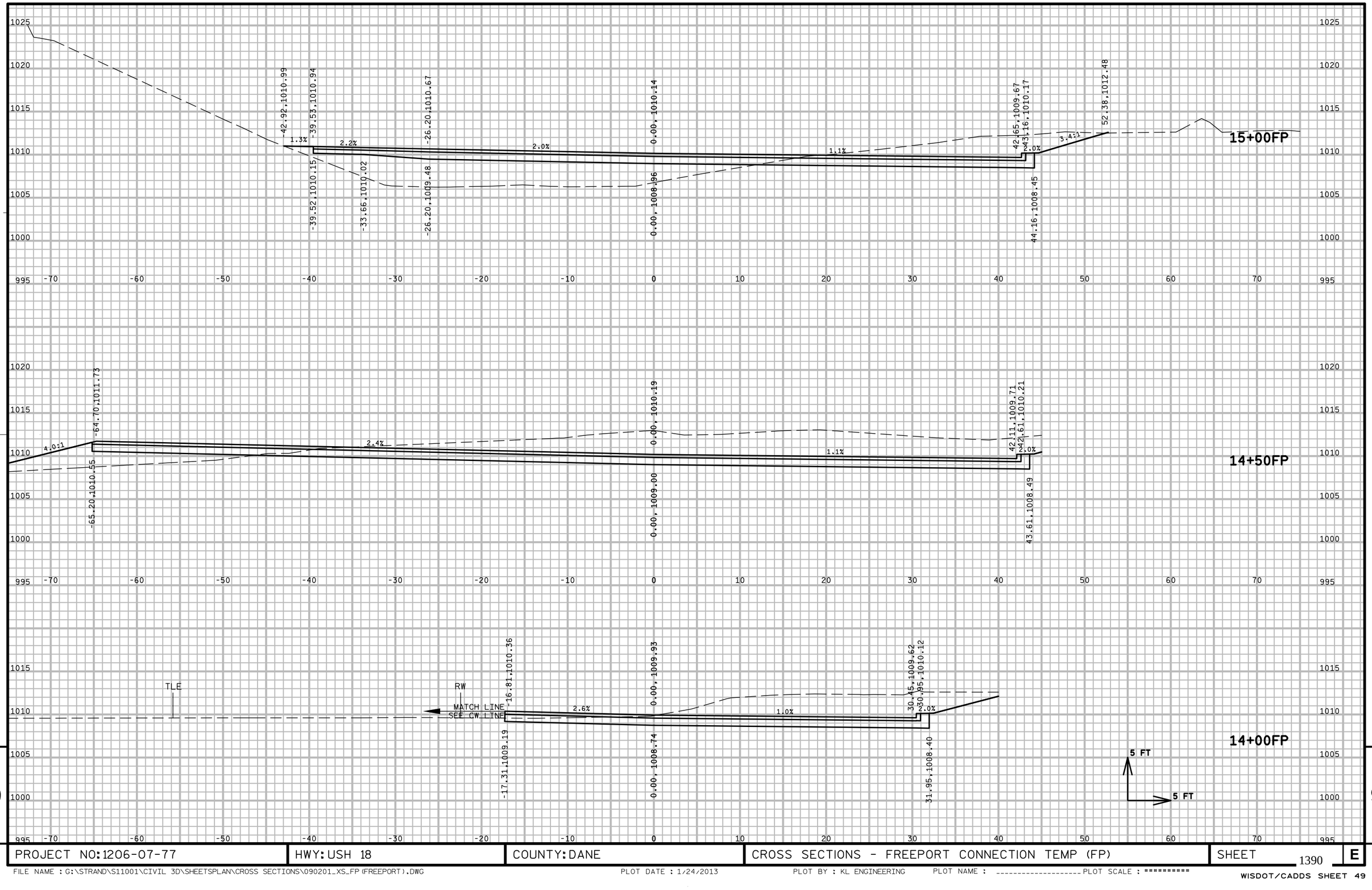
WISDOT/CADDS SHEET 49



PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FREEPORT CONNECTION TEMP (FP)	SHEET 1389	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_FP(FREEPORT).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 49



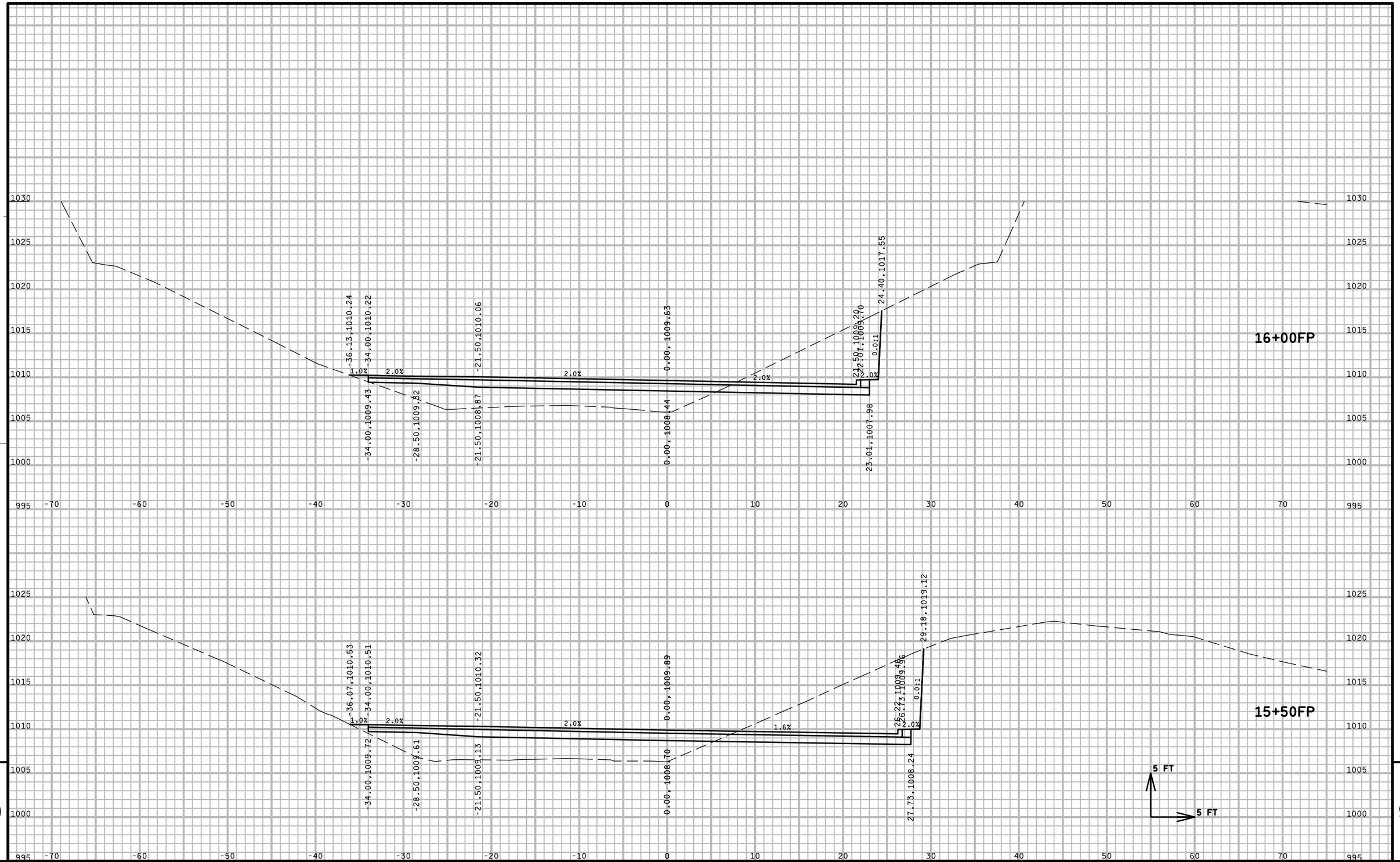
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PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FREEPORT CONNECTION TEMP (FP)	SHEET 1390	E

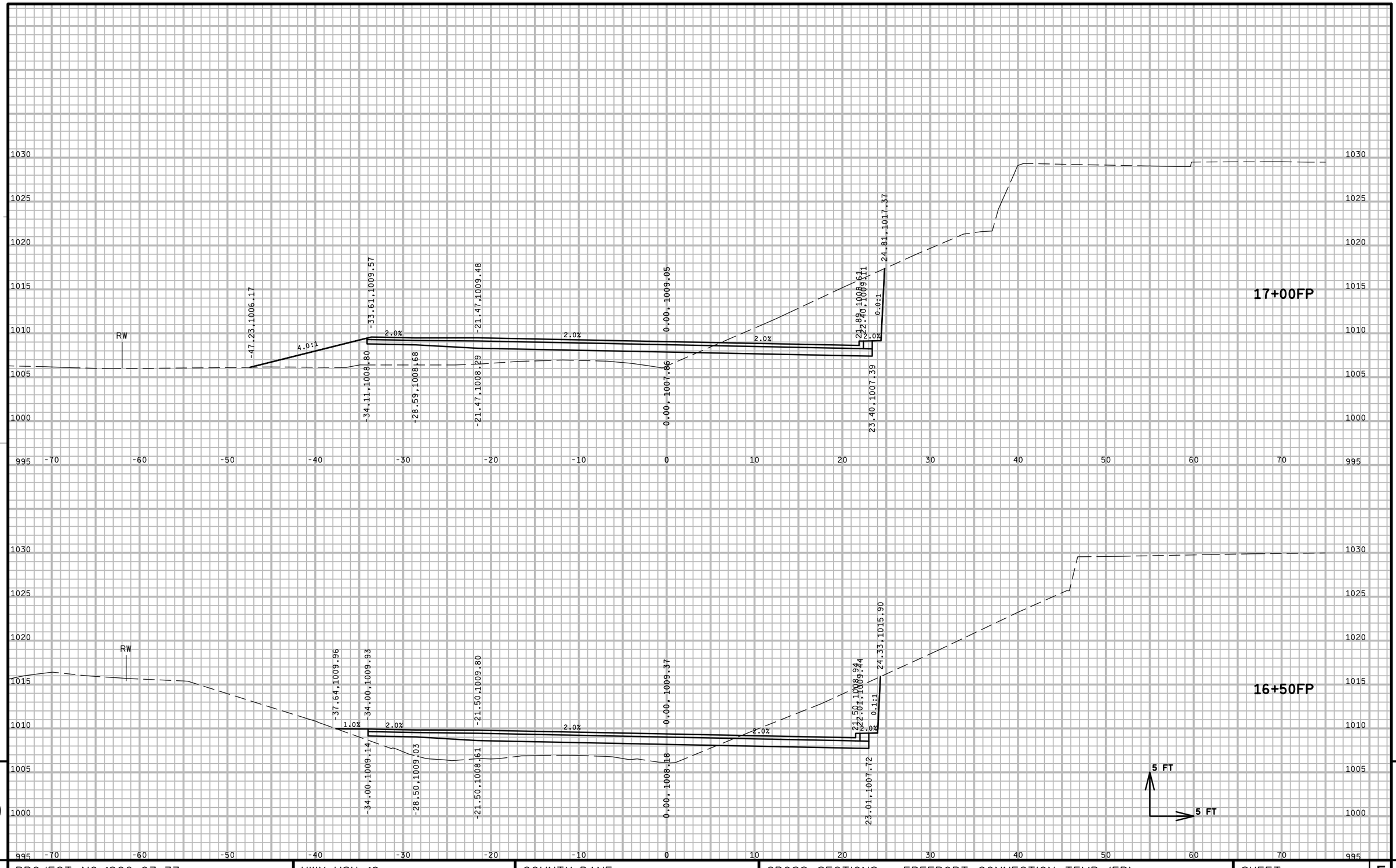
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FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_FP(FREEPORT).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 49



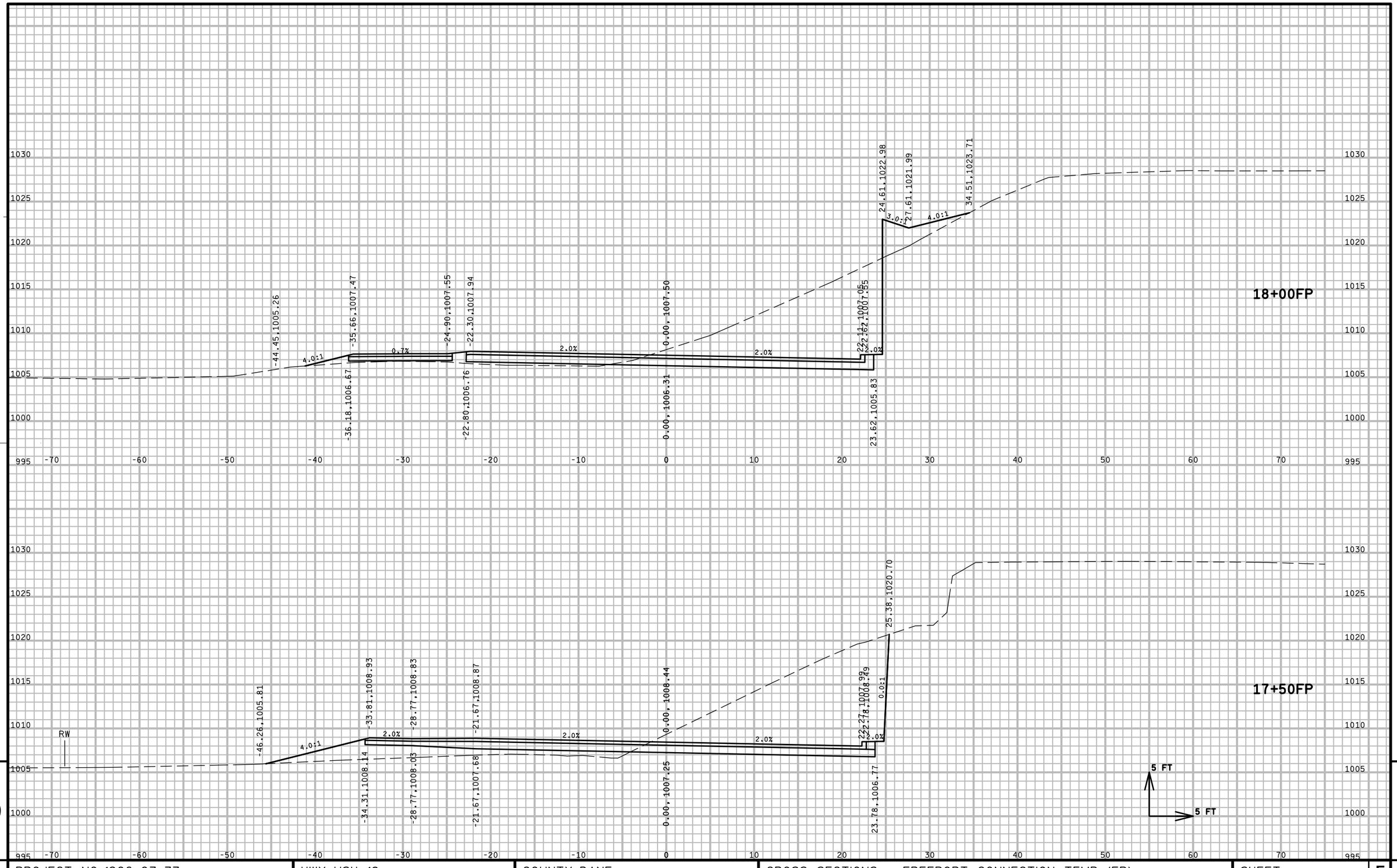
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FREEPORT CONNECTION TEMP (FP)	SHEET 1392 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_FP(FREEPORT).DWG PLOT DATE : 1/18/2013 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 49

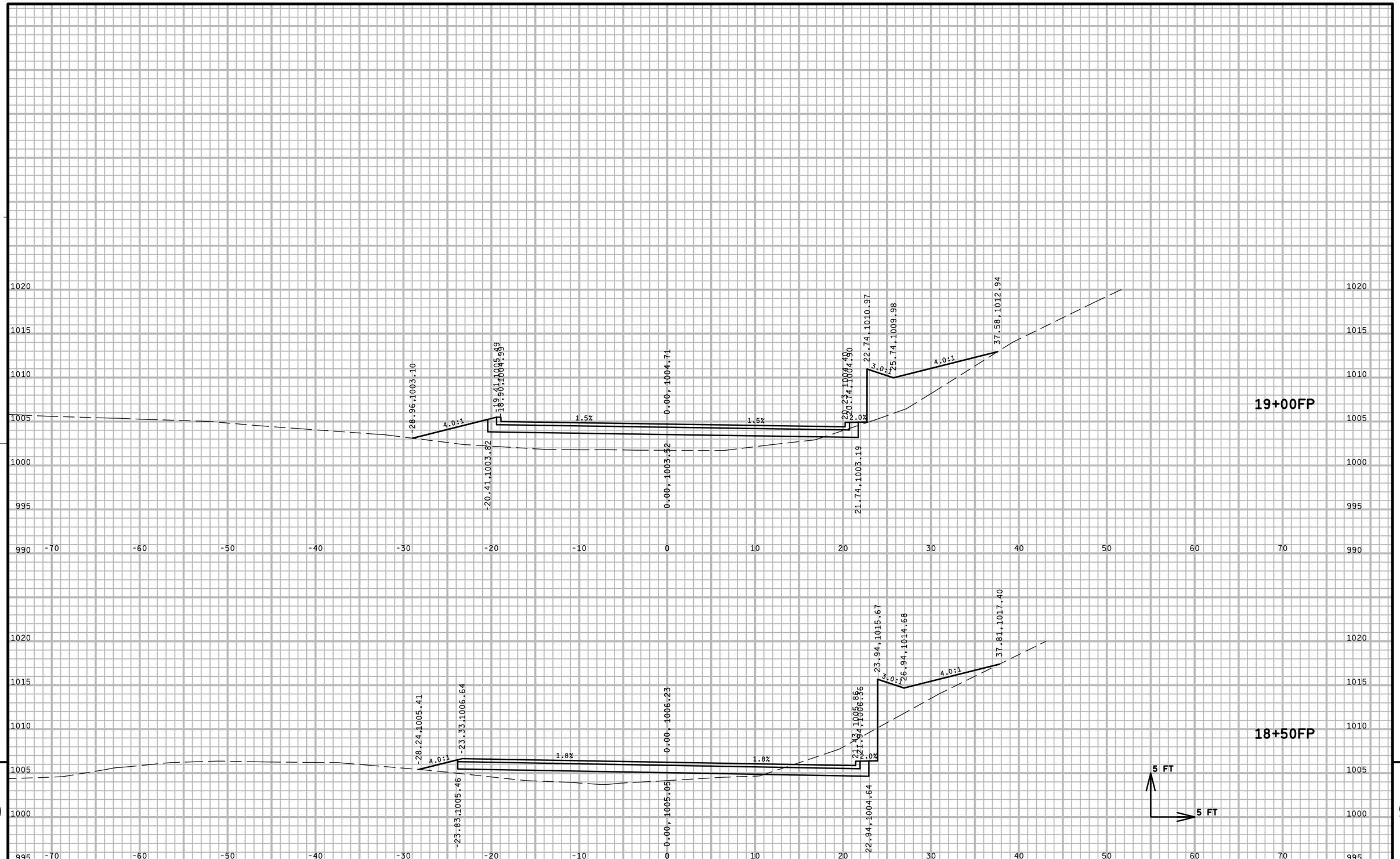


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FREEPORT CONNECTION TEMP (FP)	SHEET 1393 E

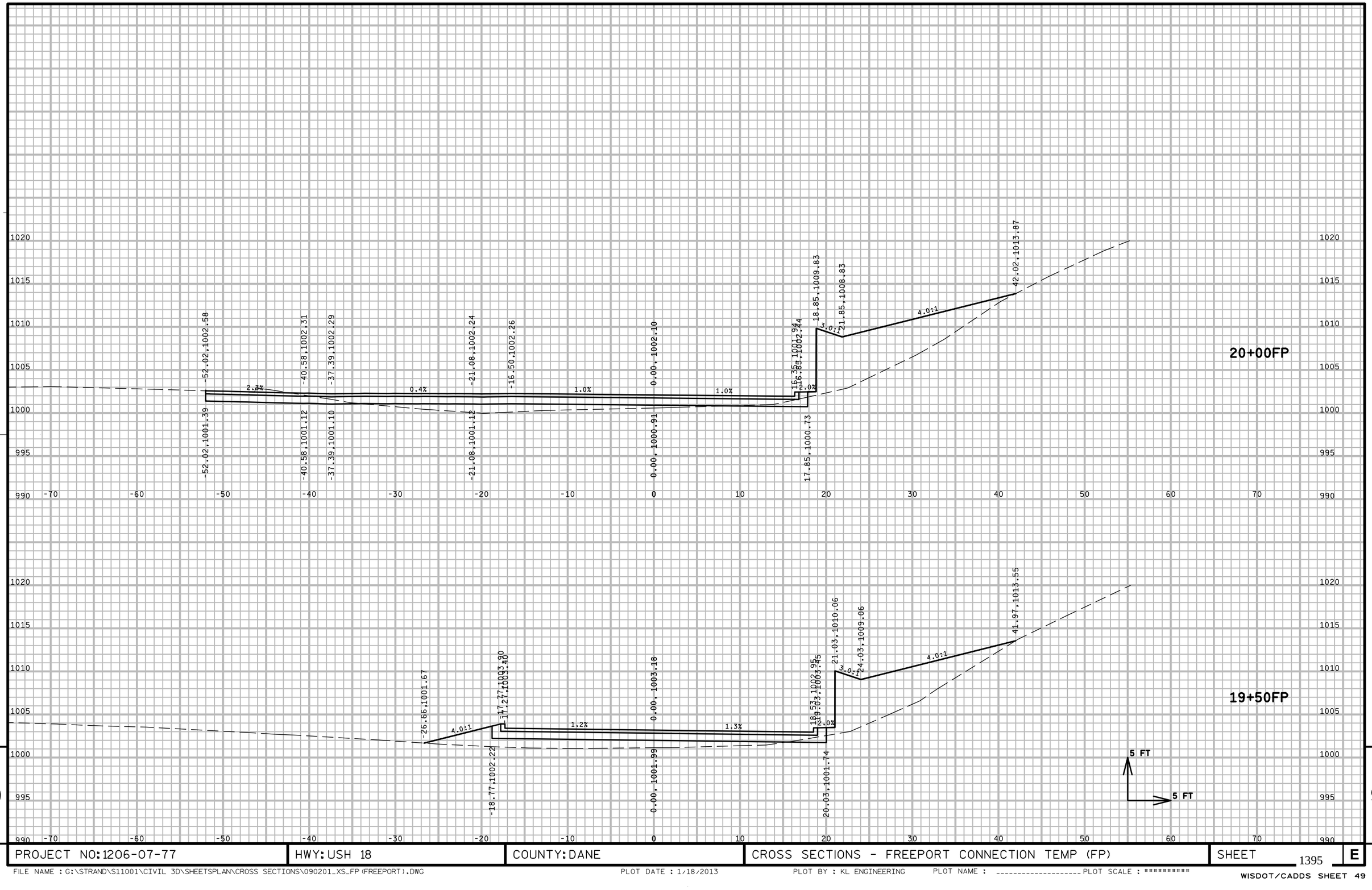
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PROJECT NO:1206-07-77	HWY:USH 18	COUNTY:DANE	CROSS SECTIONS - FREEPORT CONNECTION TEMP (FP)	SHEET 1394 E

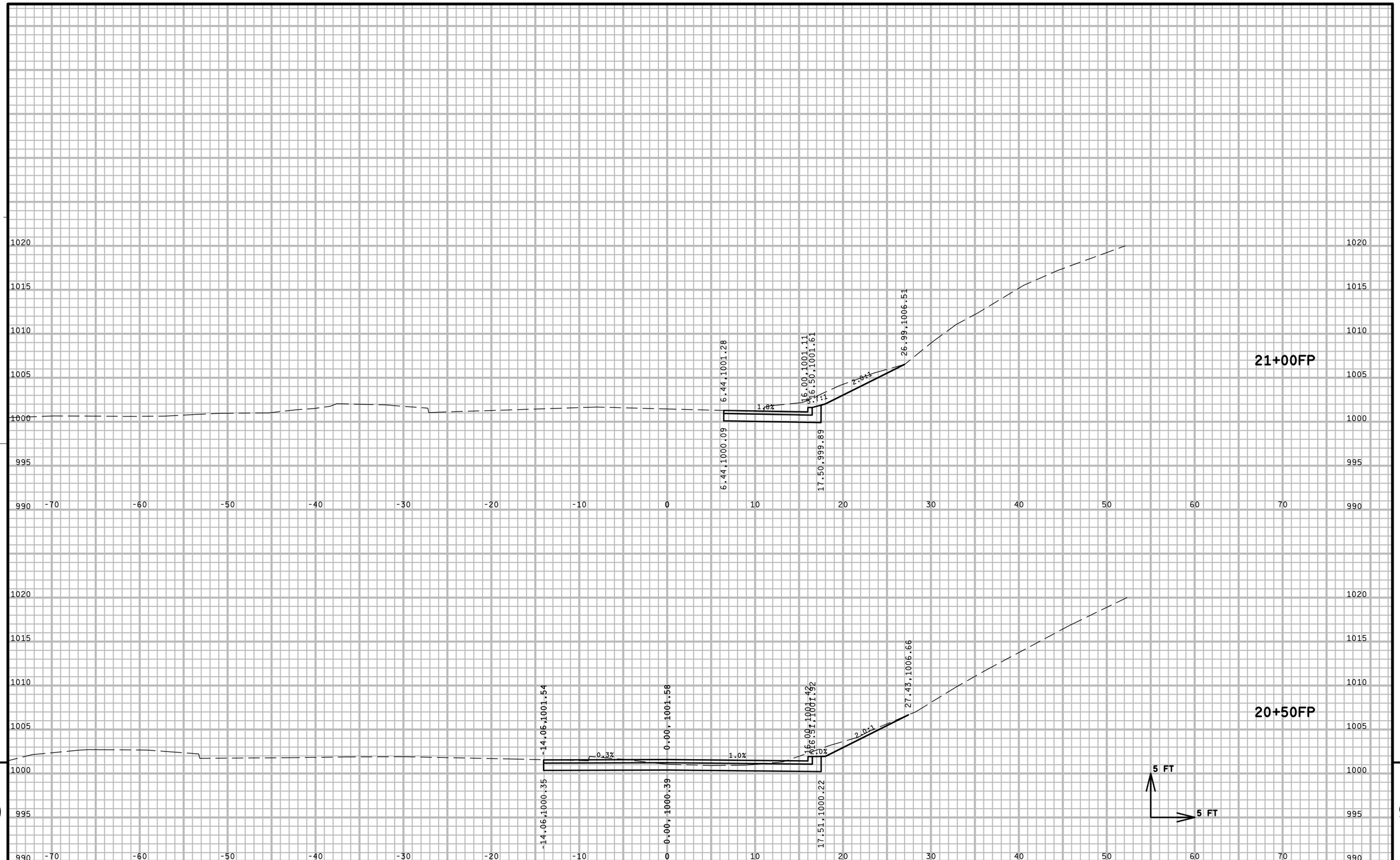
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PROJECT NO:1206-07-77	HWY:USH 18	COUNTY:DANE	CROSS SECTIONS - FREEPORT CONNECTION TEMP (FP)	SHEET 1395 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_FP(FREEPORT).DWG PLOT DATE : 1/18/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : ********** WISDOT/CADDS SHEET 49



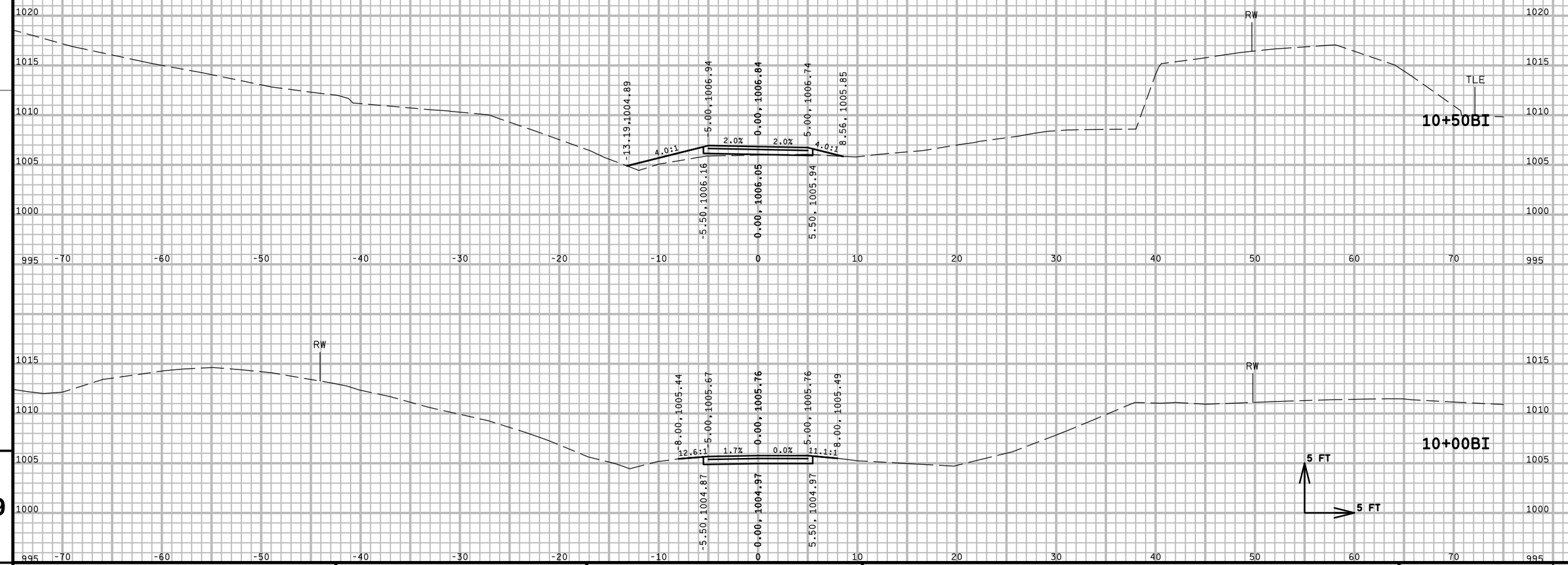
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PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FREEPORT CONNECTION TEMP (FP)	SHEET 1396 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_FP(FREEPORT).DWG PLOT DATE : 1/18/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 49

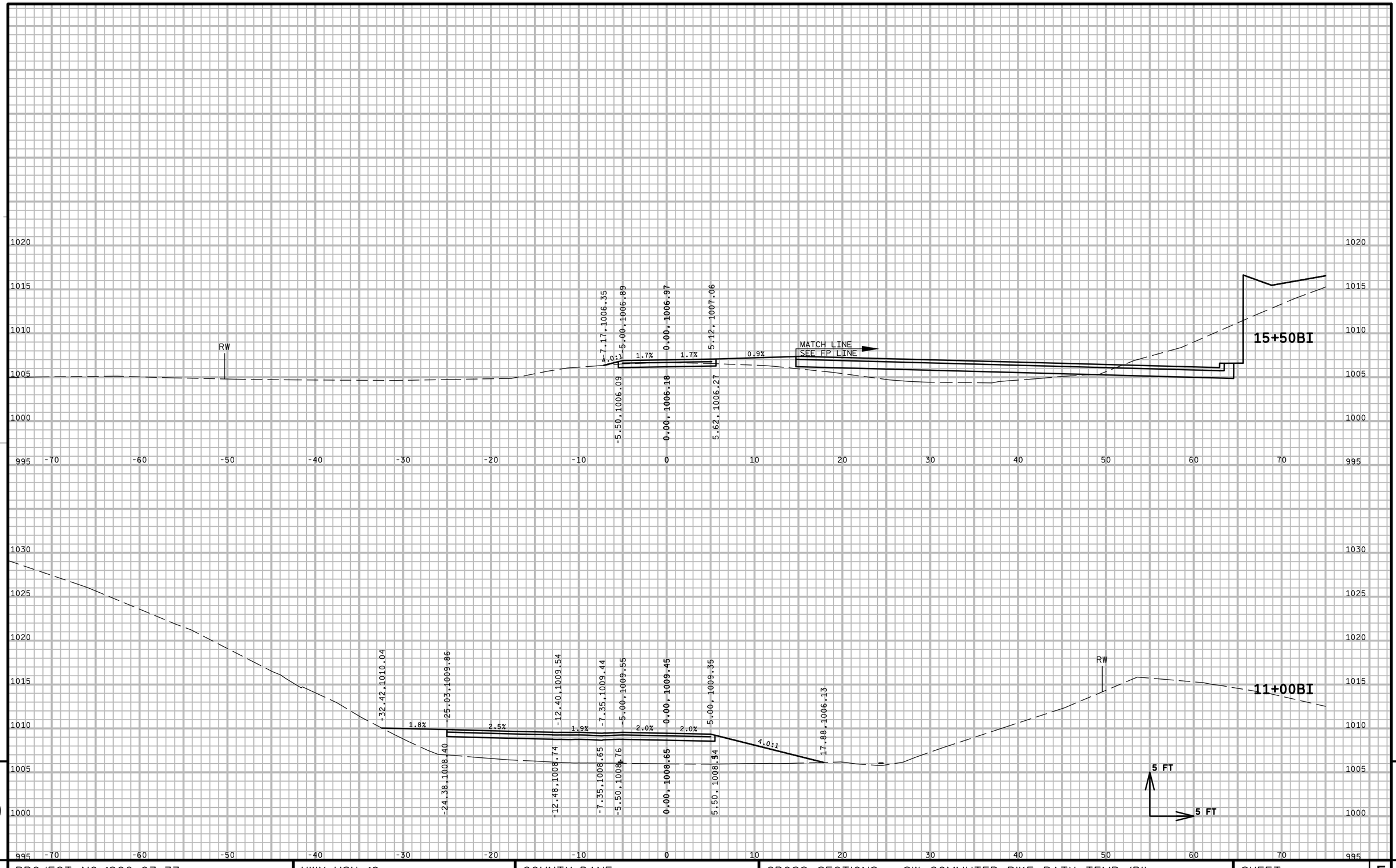


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PROJECT NO:1206-07-77	HWY:USH 18	COUNTY:DANE	CROSS SECTIONS - SW COMMUTER BIKE PATH TEMP (BI)	SHEET 1397 E

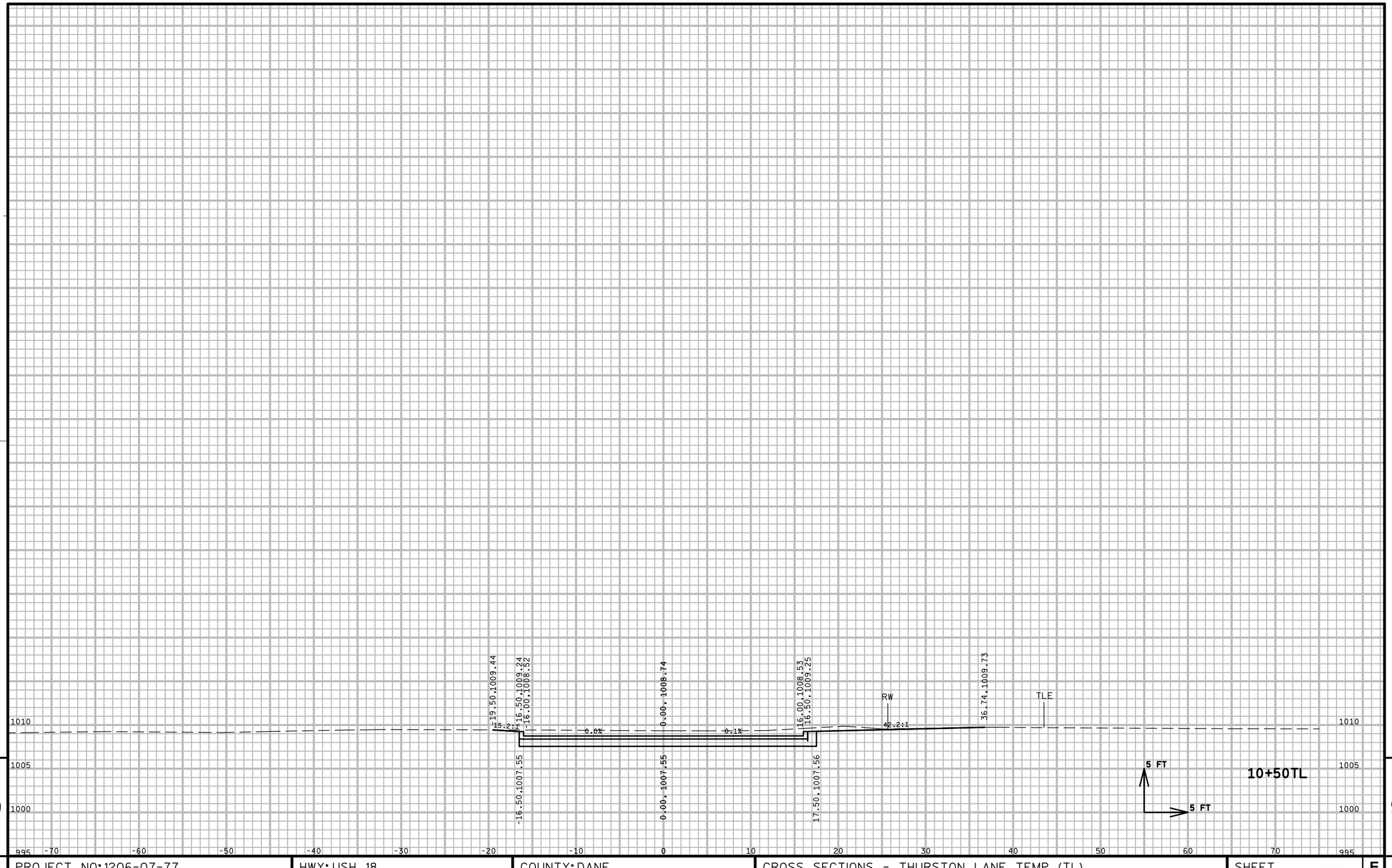
FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_BI(BIKE PATH TEMP).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : ********** WISDOT/CADDS SHEET 49



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SW COMMUTER BIKE PATH TEMP (BI)	SHEET 1398 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_BI(BIKE PATH TEMP).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : ********** WISDOT/CADDS SHEET 49

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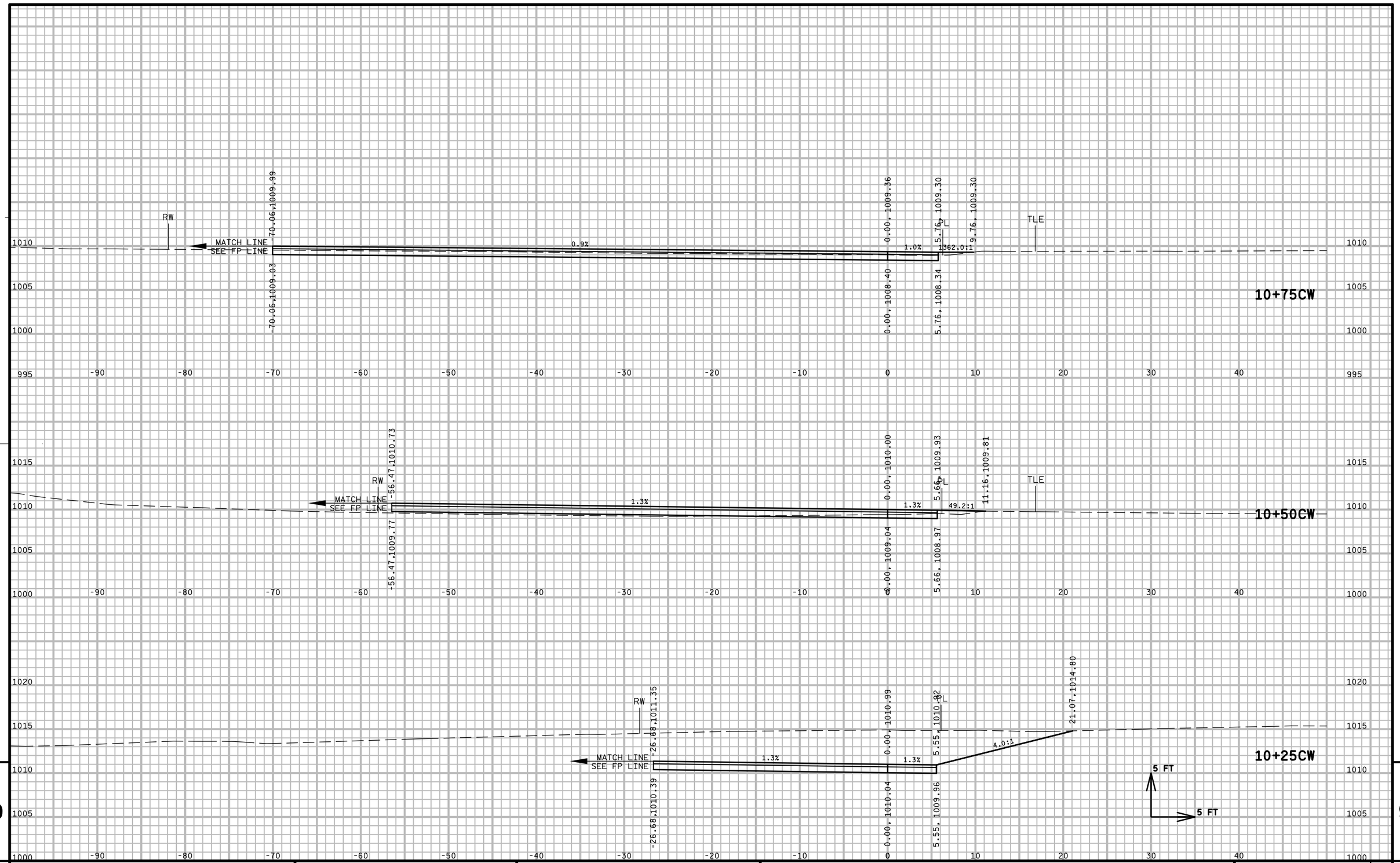


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - THURSTON LANE TEMP (TL)	SHEET 1399 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_TL(THURSTON LANE).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : ********** WISDOT/CADDS SHEET 49

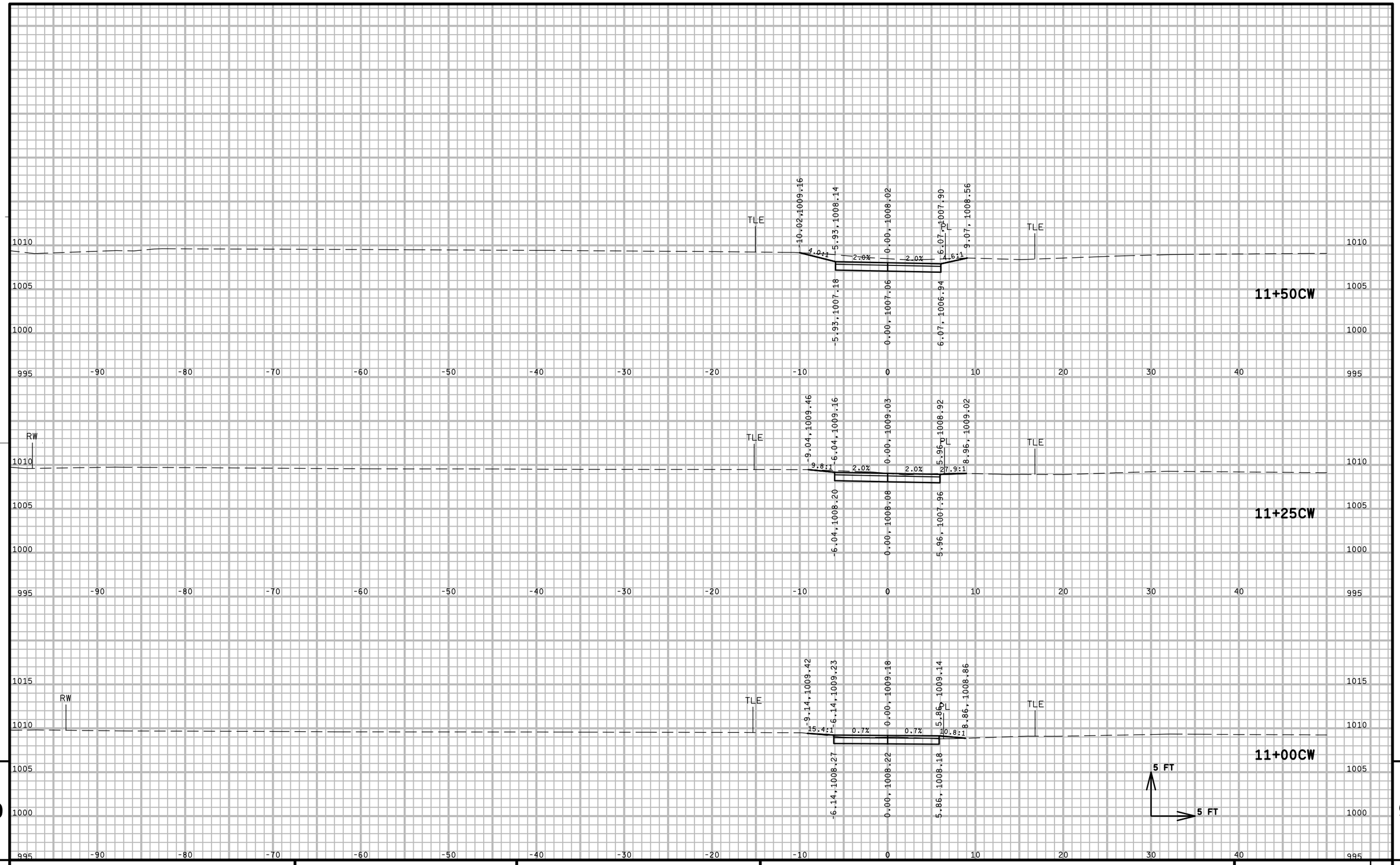


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PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CARLING DRIVEWAY (CW)	SHEET 1400 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_CW(CARLING DRIVEWAY).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : ********** WISDOT/CADDS SHEET 49

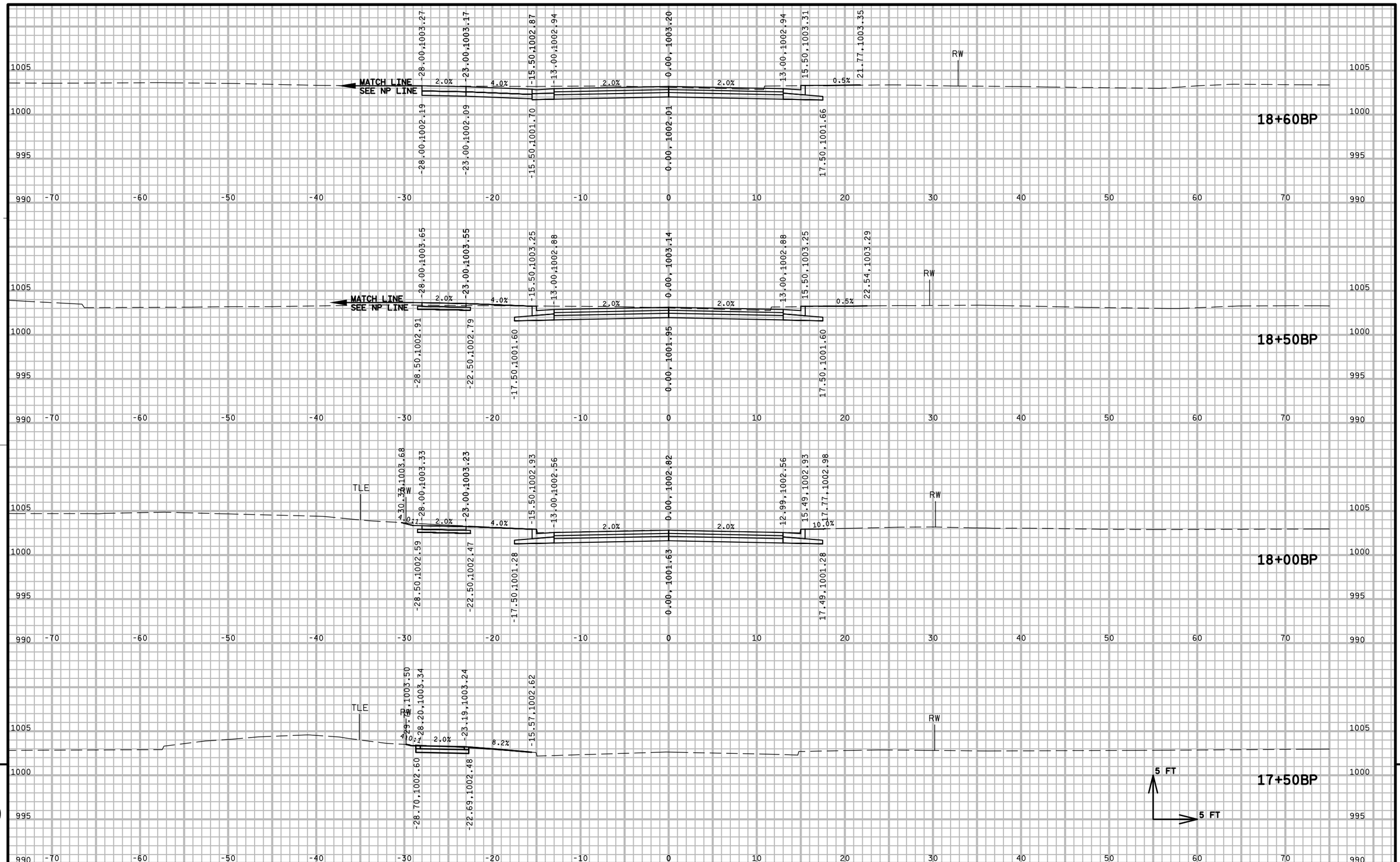


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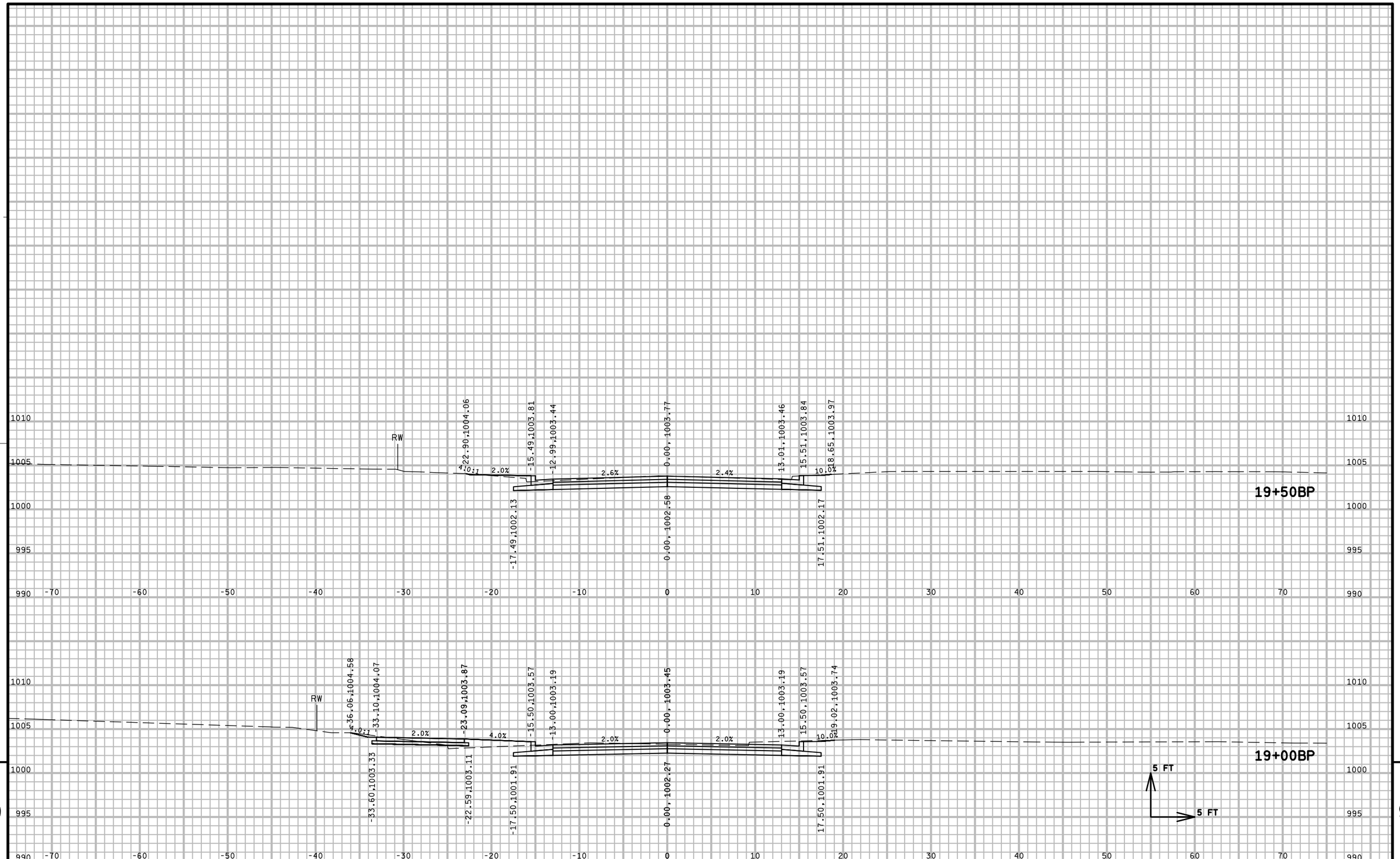
PROJECT NO:1206-07-77	HWY:USH 18	COUNTY:DANE	CROSS SECTIONS - CARLING DRIVEWAY (CW)	SHEET 1401 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_CW(CARLING DRIVEWAY).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 49



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - BRITTA PARKWAY (BP)	SHEET 1402 E

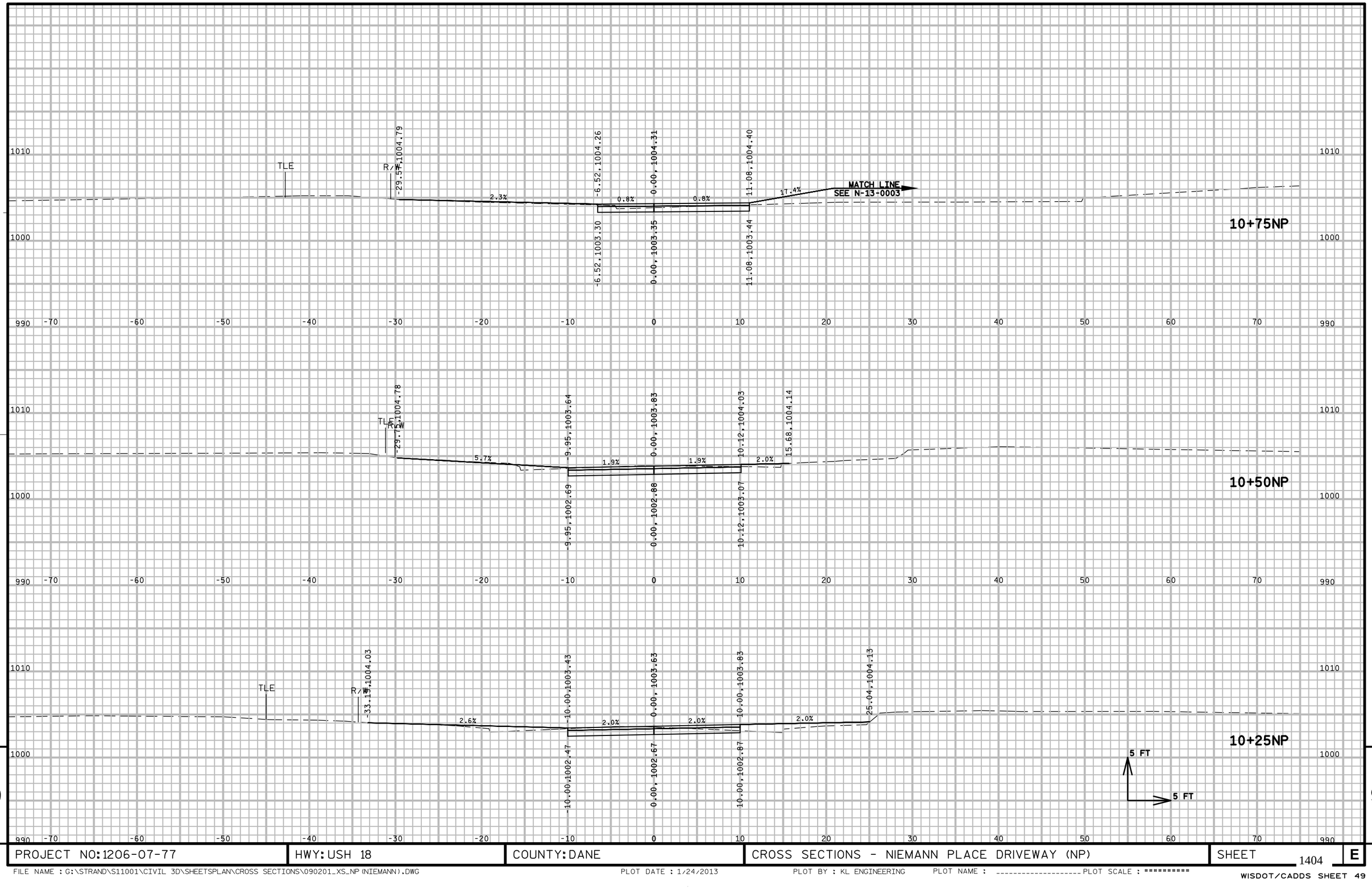


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PROJECT NO:1206-07-77	HWY:USH 18	COUNTY:DANE	CROSS SECTIONS - BRITTA PARKWAY (BP)	SHEET 1403 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_BP(BRITTA).DWG PLOT DATE : 1/16/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : ********** WISDOT/CADDS SHEET 49

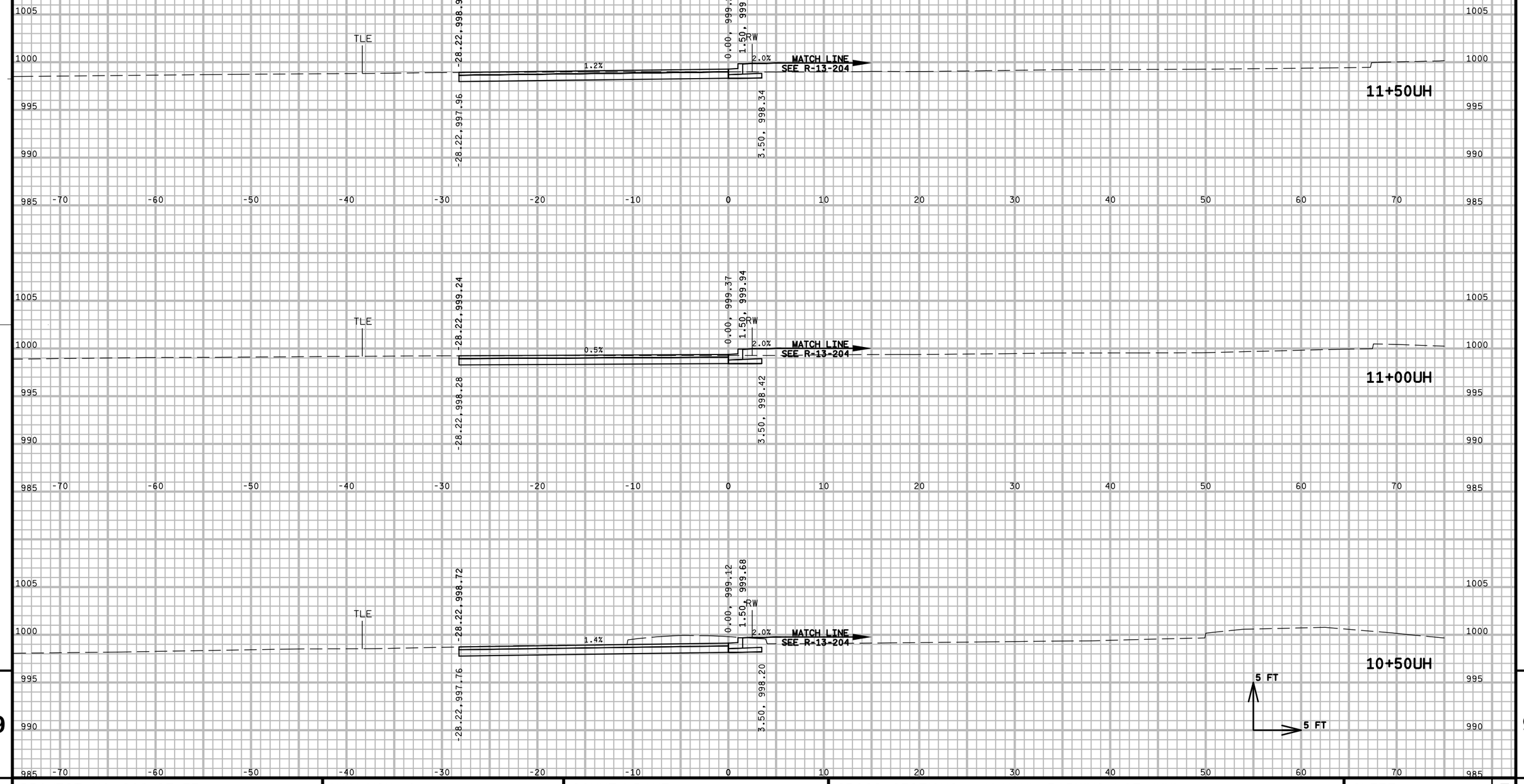


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PROJECT NO:1206-07-77	HWY:USH 18	COUNTY:DANE	CROSS SECTIONS - NIEMANN PLACE DRIVEWAY (NP)	SHEET 1404 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_NP(NIEMANN).DWG PLOT DATE : 1/24/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : **********

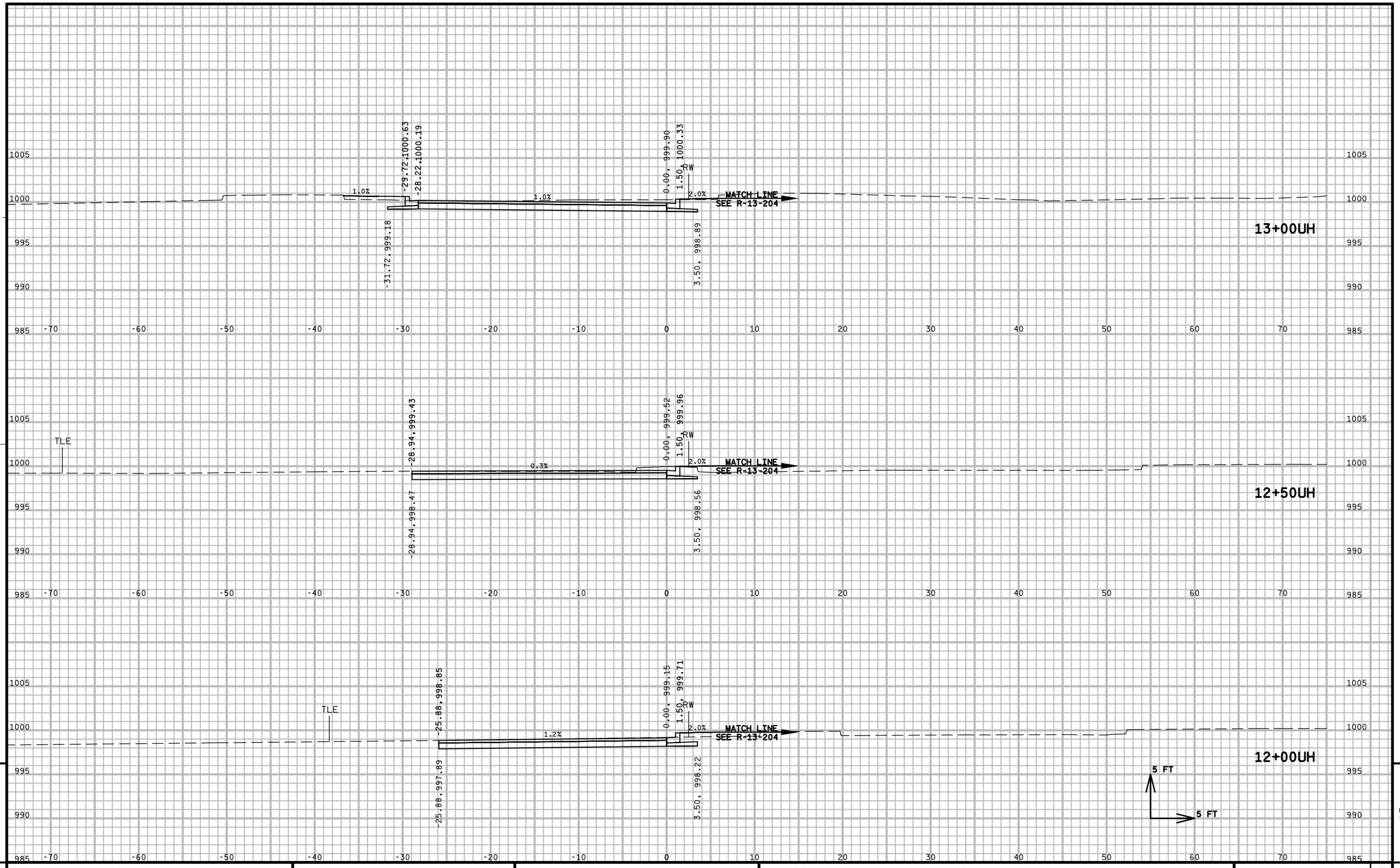


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - U-HAUL PARKING LOT (UH)	SHEET 1405 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_UH(U-HAUL PARKING LOT).DWG PLOT DATE : 1/16/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : **********

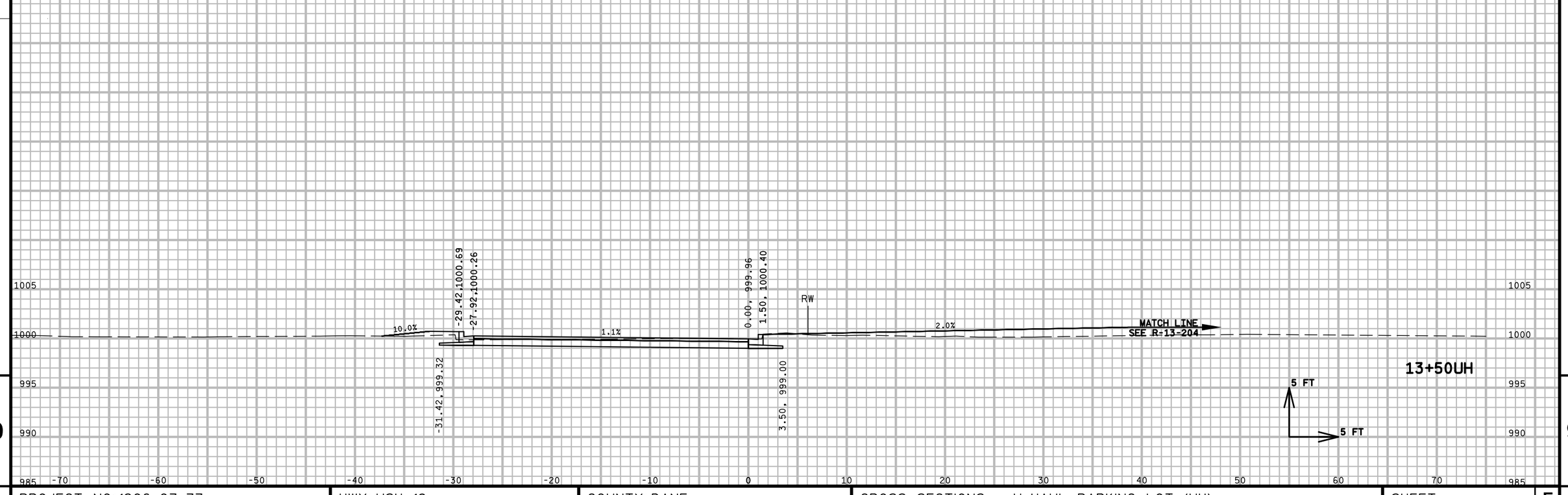


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PROJECT NO:1206-07-77	HWY:USH 18	COUNTY:DANE	CROSS SECTIONS - U-HAUL PARKING LOT (UH)	SHEET 1406 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_UH(U-HAUL PARKING LOT).DWG PLOT DATE : 1/16/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : **********



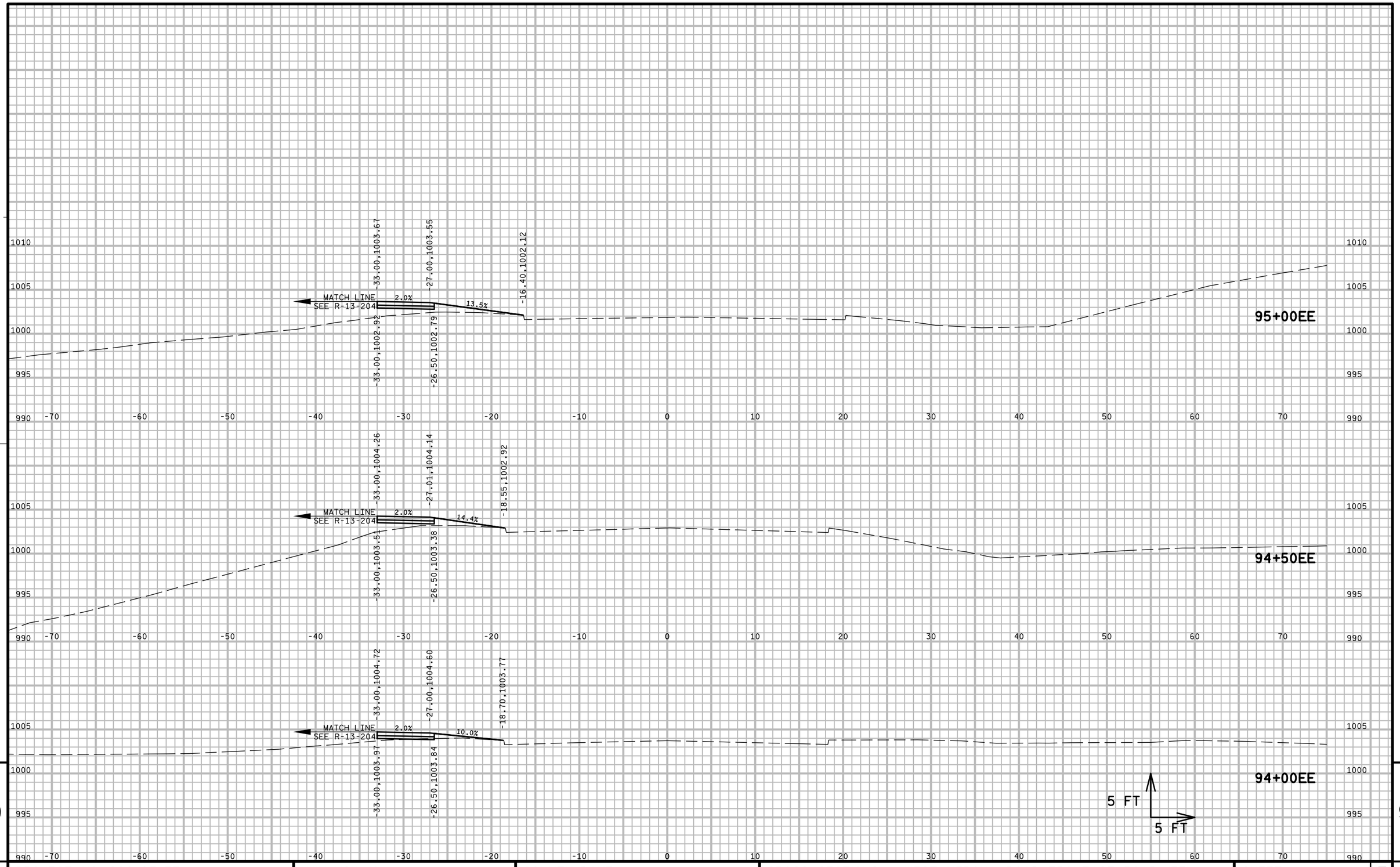
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - U-HAUL PARKING LOT (UH)	SHEET 1407	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_UH(U-HAUL PARKING LOT).DWG PLOT DATE : 1/16/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 49



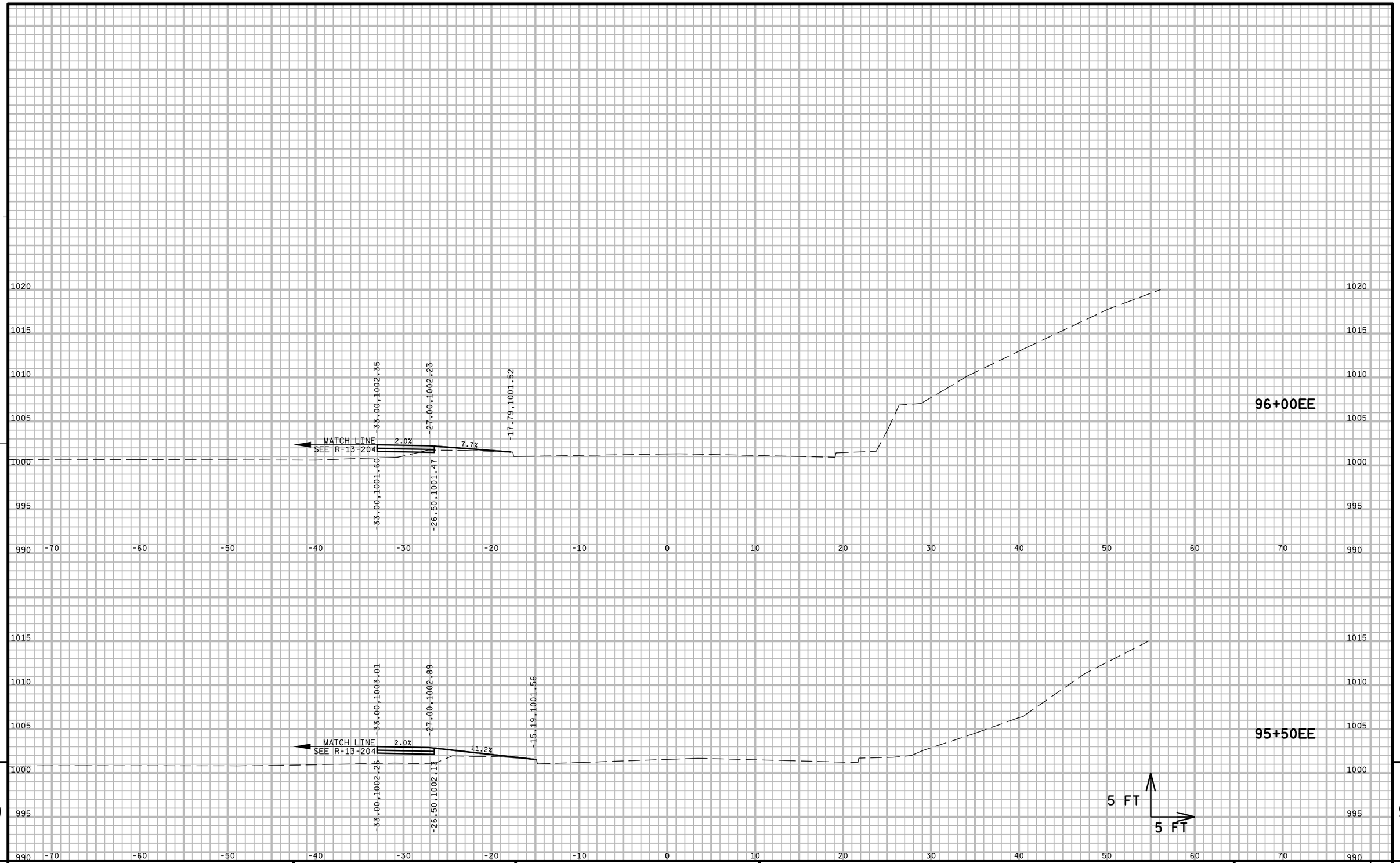
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PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WEST VERONA ROAD FRONTAGE ROAD (EE)	SHEET 1408 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_EE(SW LT).DWG PLOT DATE : 1/16/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : **********

WISDOT/CADDS SHEET 49

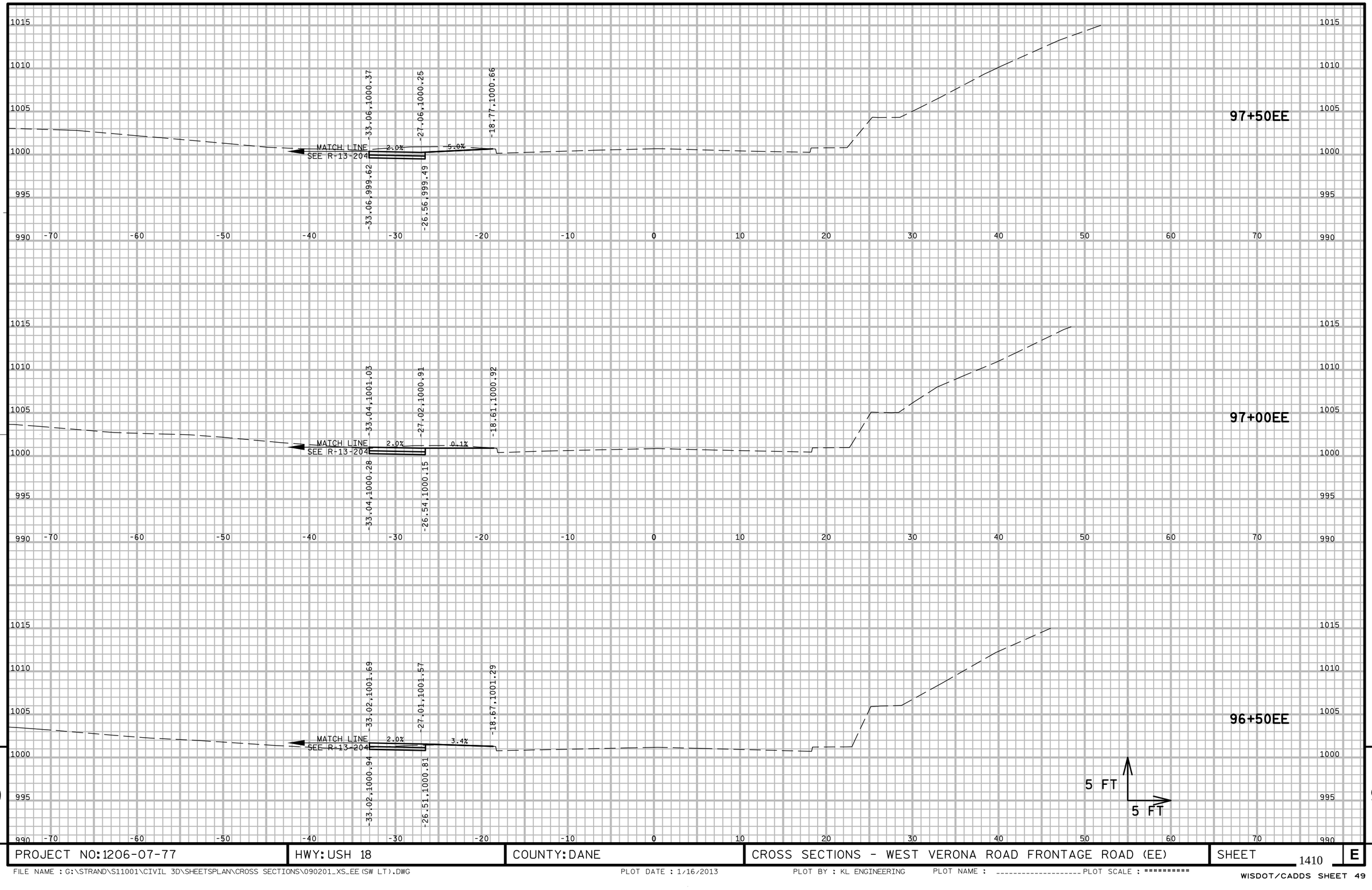


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PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WEST VERONA ROAD FRONTAGE ROAD (EE)	SHEET 1409 E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_EE(SW LT).DWG PLOT DATE : 1/16/2013 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : **********

WISDOT/CADDS SHEET 49

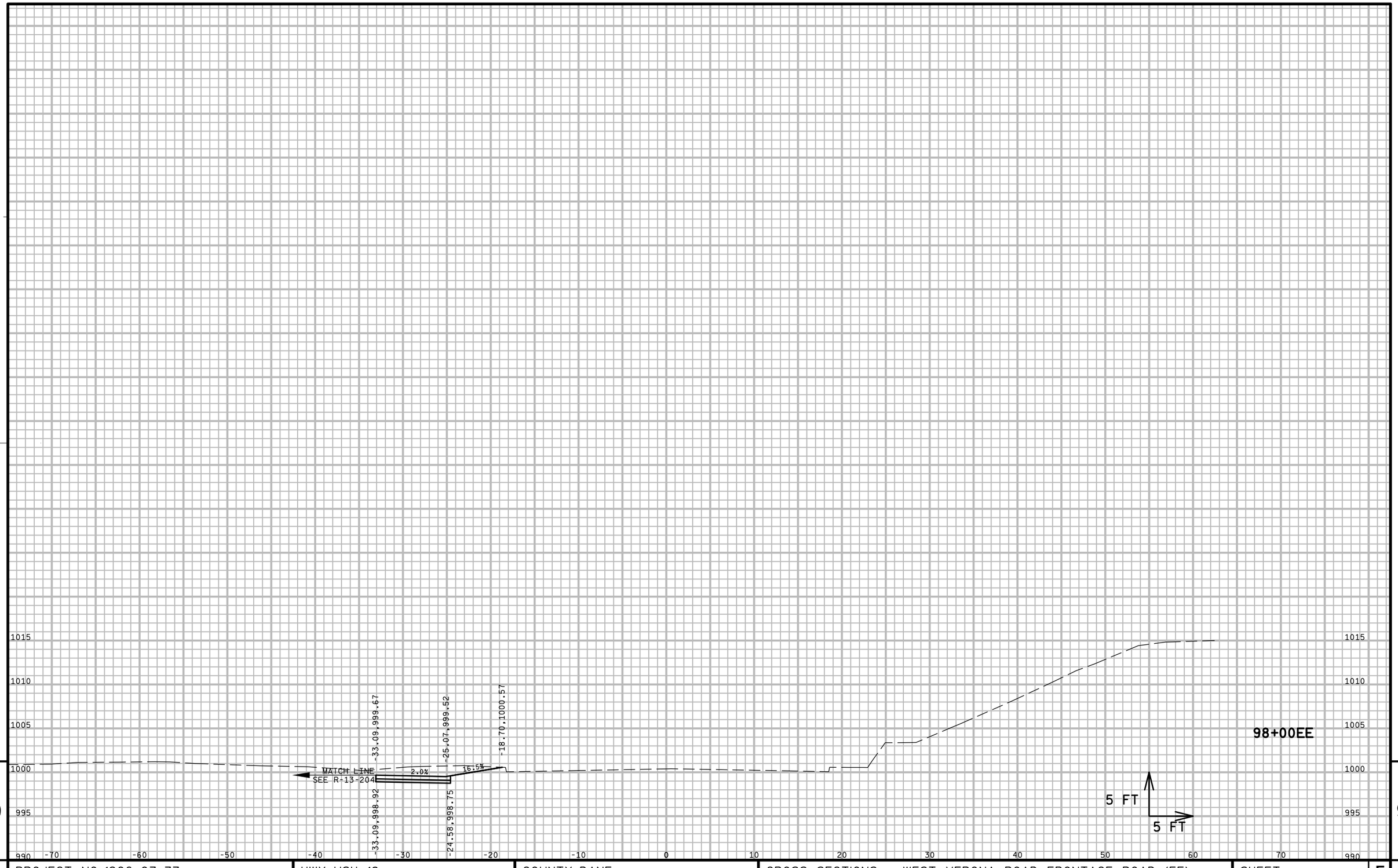


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PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WEST VERONA ROAD FRONTAGE ROAD (EE)	SHEET 1410	E

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FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_EE(SW LT).DWG PLOT DATE : 1/16/2013 PLOT BY : KL ENGINEERING PLOT NAME : _____ PLOT SCALE : **********

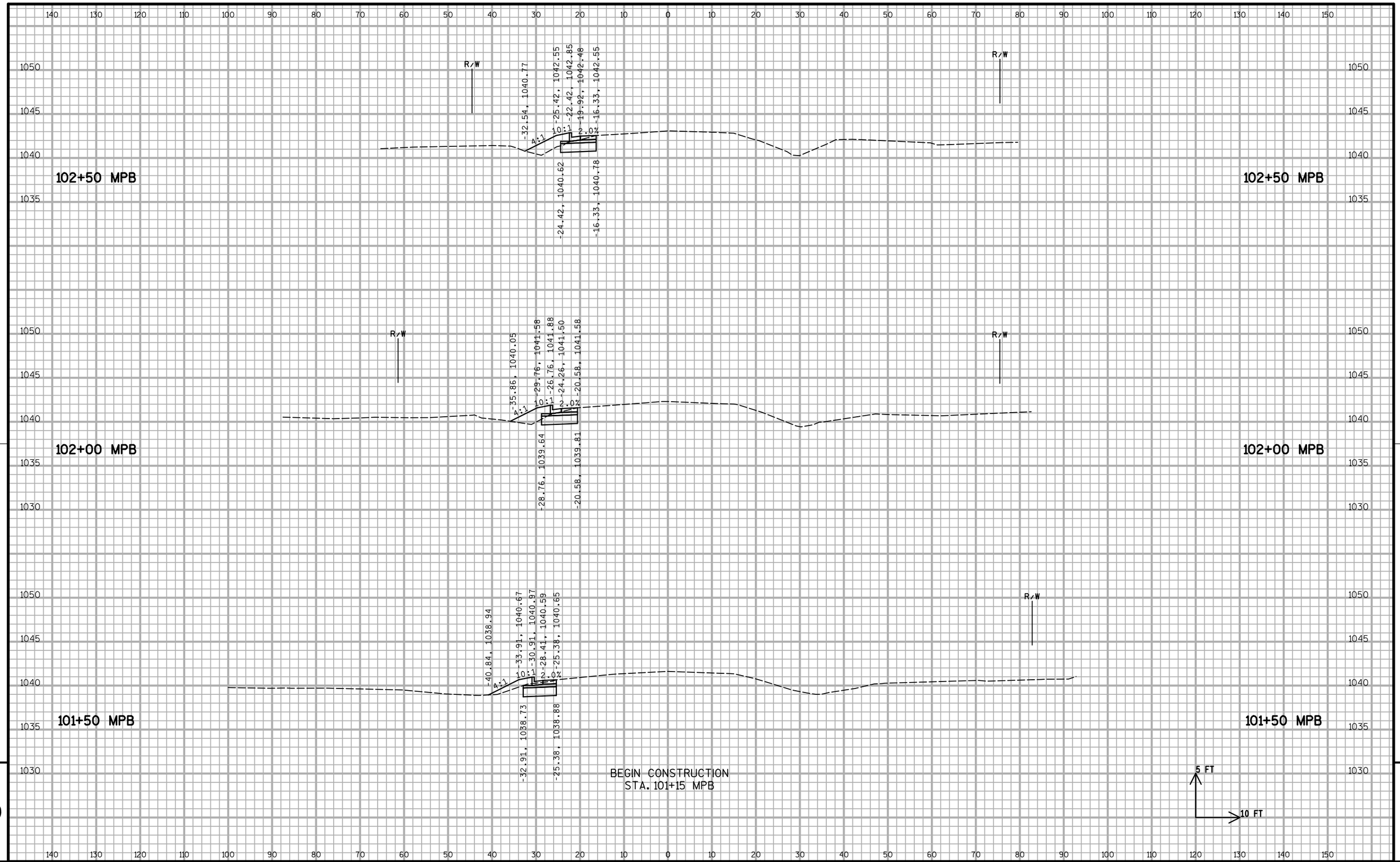


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WEST VERONA ROAD FRONTAGE ROAD (EE)	SHEET 1411	E

FILE NAME : G:\STRAND\S11001\CIVIL 3D\SHEETSPLAN\CROSS SECTIONS\090201_XS_EE(SW LT).DWG PLOT DATE : 1/16/2013 PLOT BY : KL ENGINEERING PLOT NAME : ---------- PLOT SCALE : **********

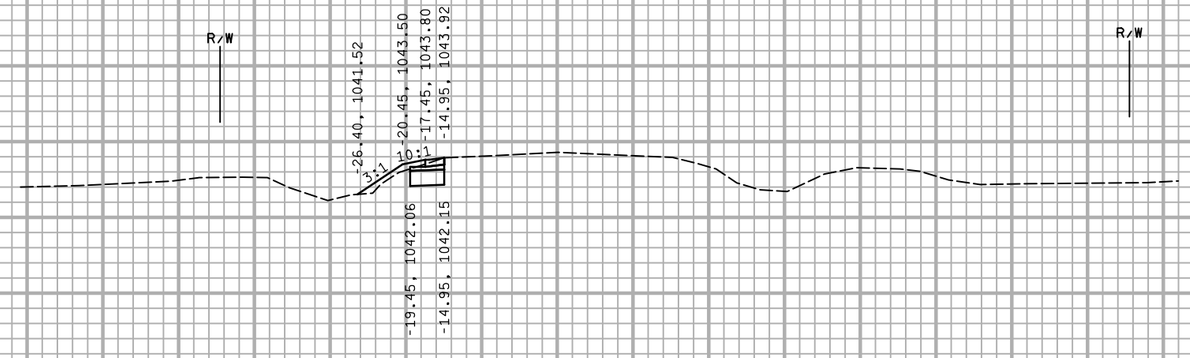


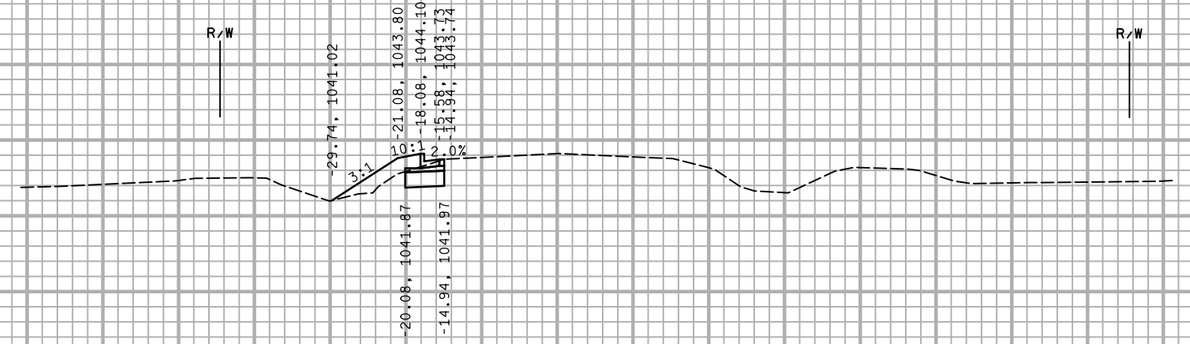
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT CTH PB (MPB LINE)	SHEET 1412	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090207a_xs_mpb.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

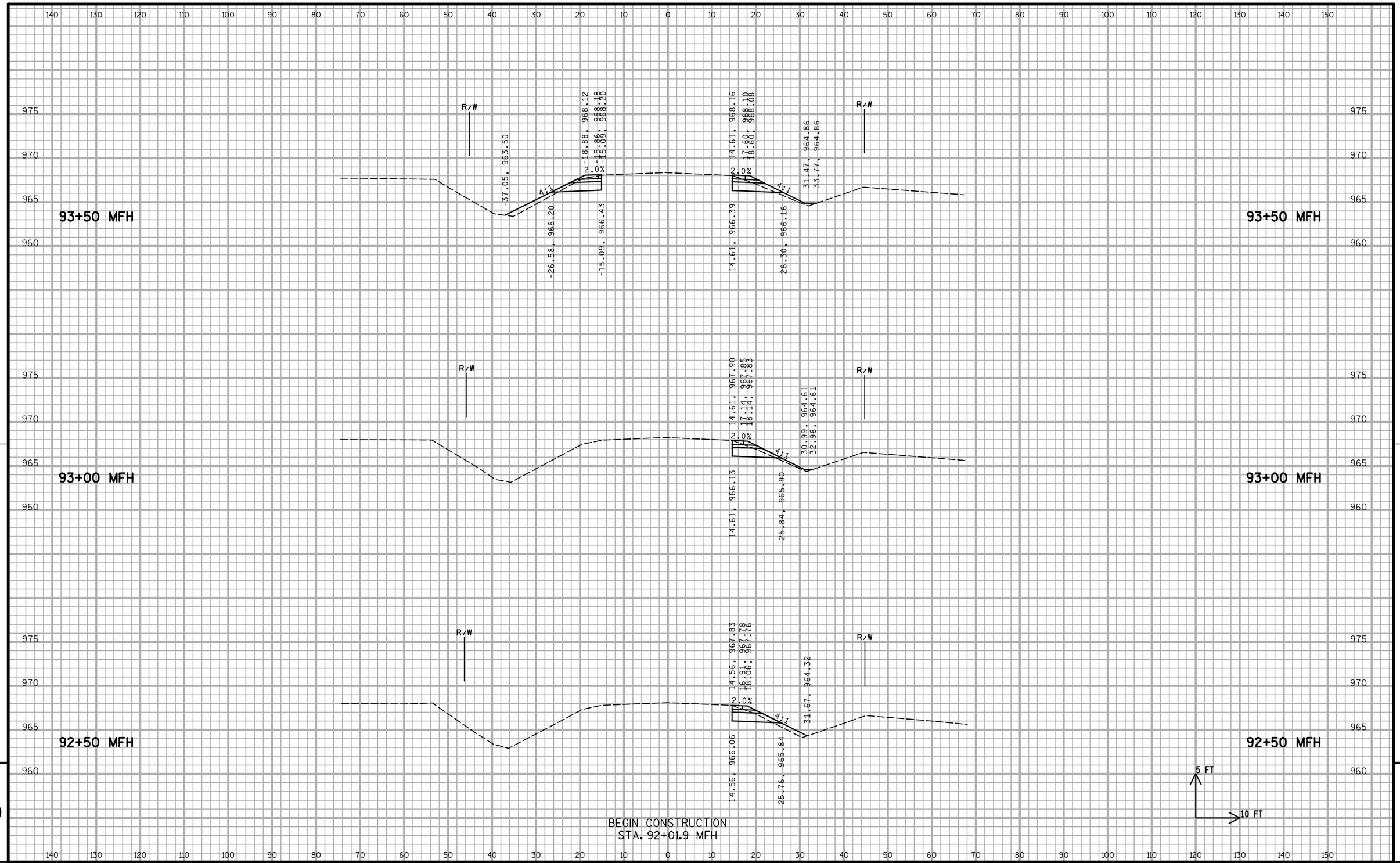
END CONSTRUCTION
STA. 103+74.8 MPB





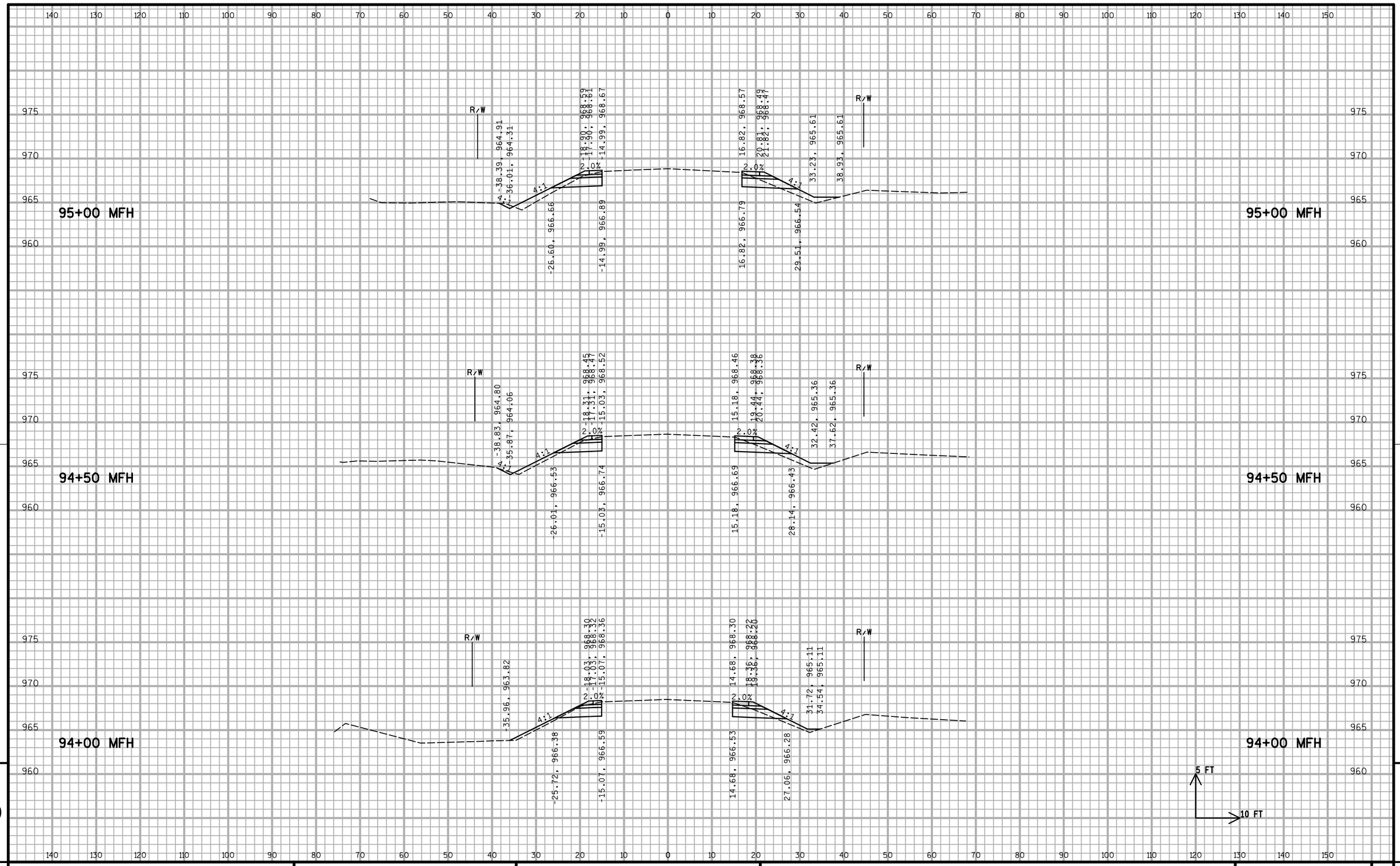
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT CTH PB (MPB LINE)	SHEET 1413	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090207a_xs_mpb.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



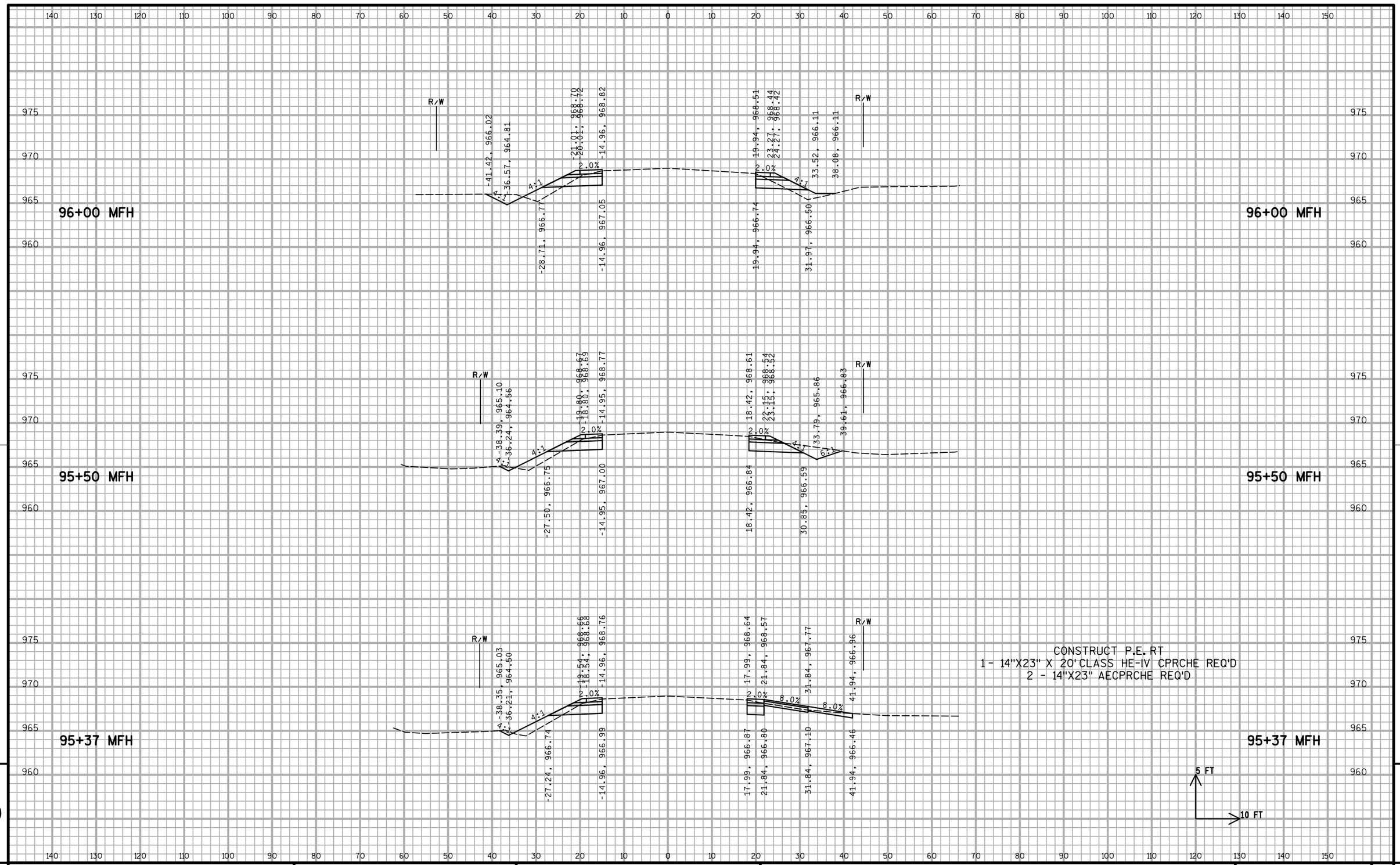
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET 1414	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090208_xs_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET 1415	E

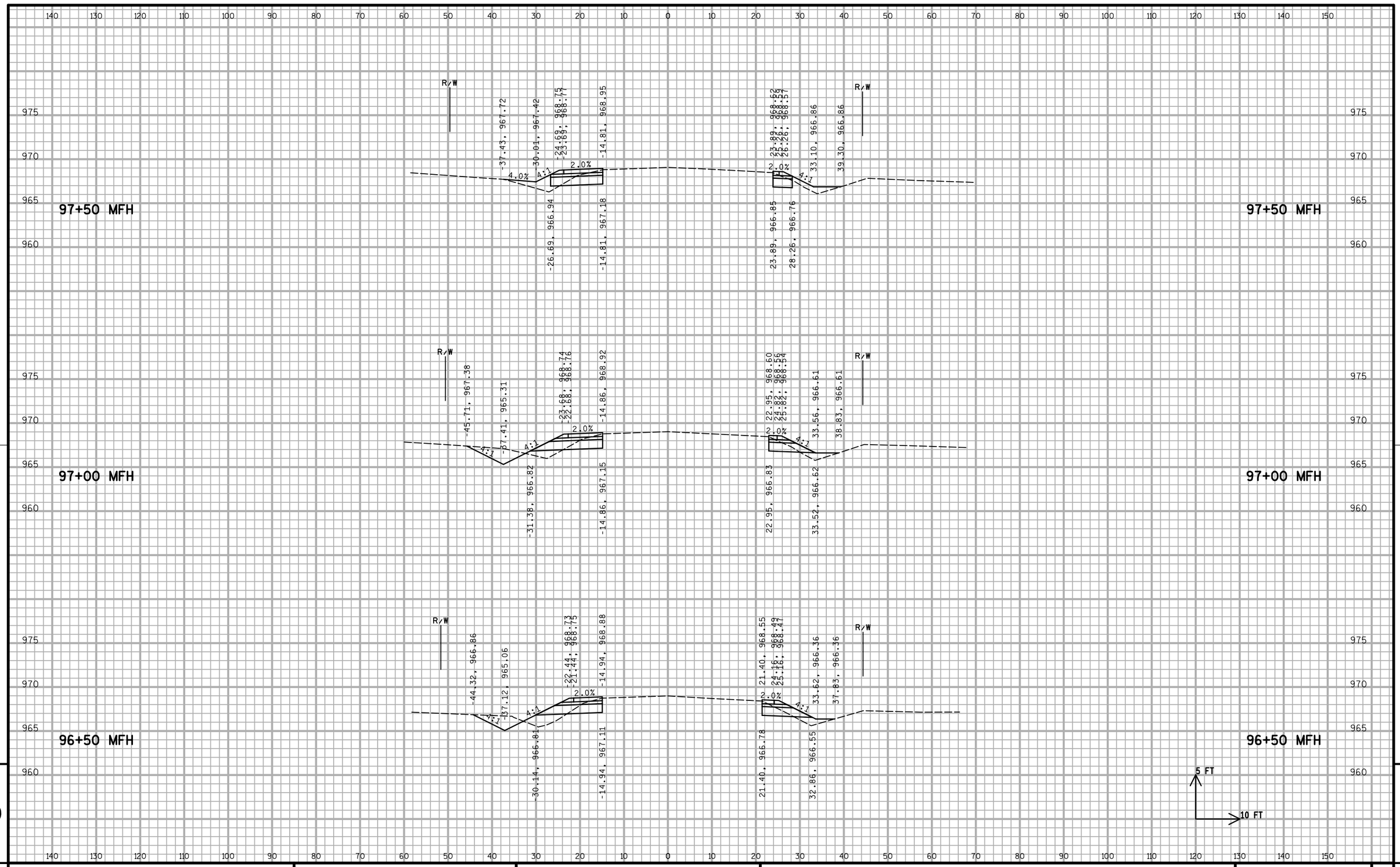
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET 1416	E

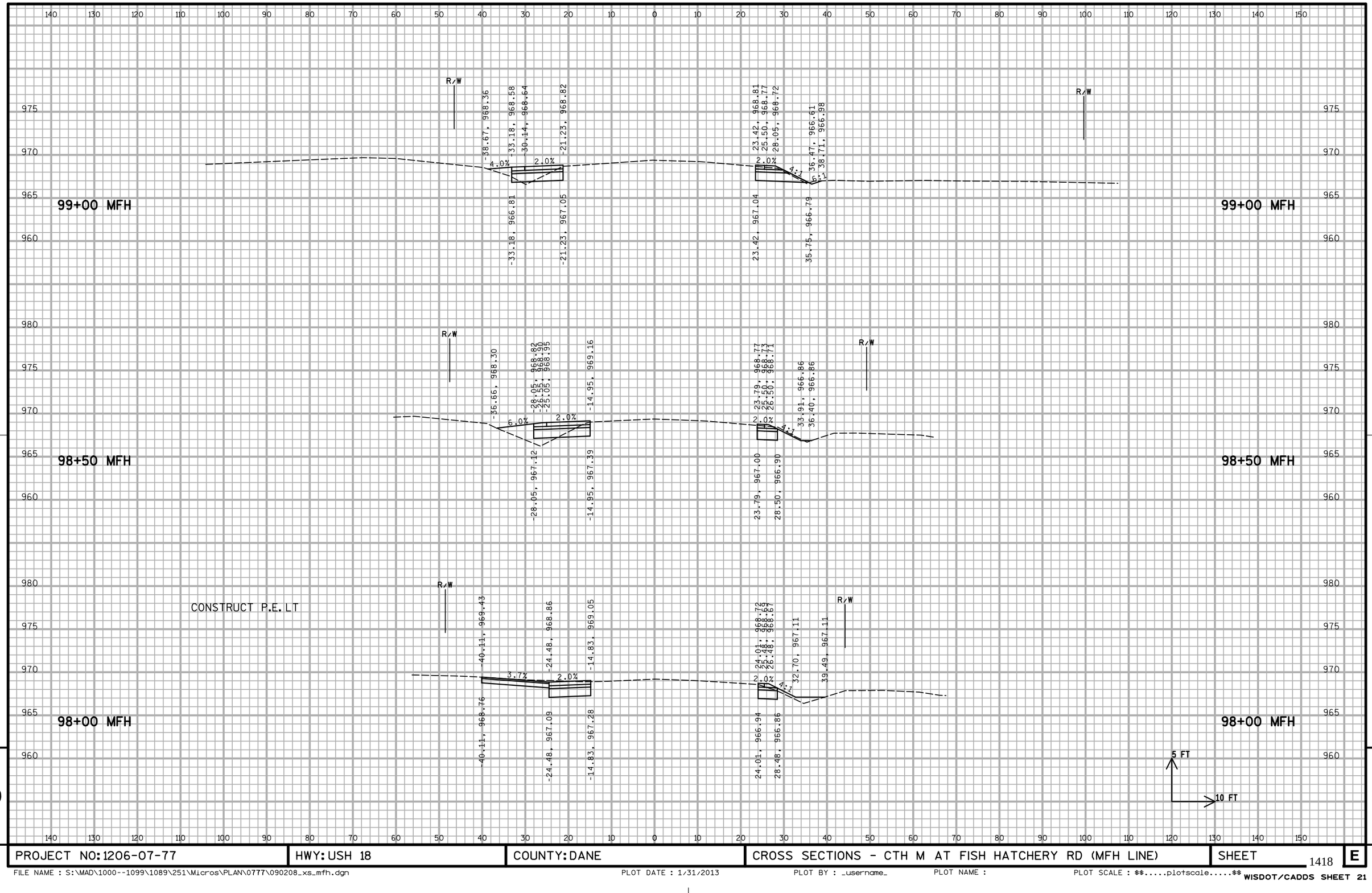
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WISDOT/CADDS SHEET 21



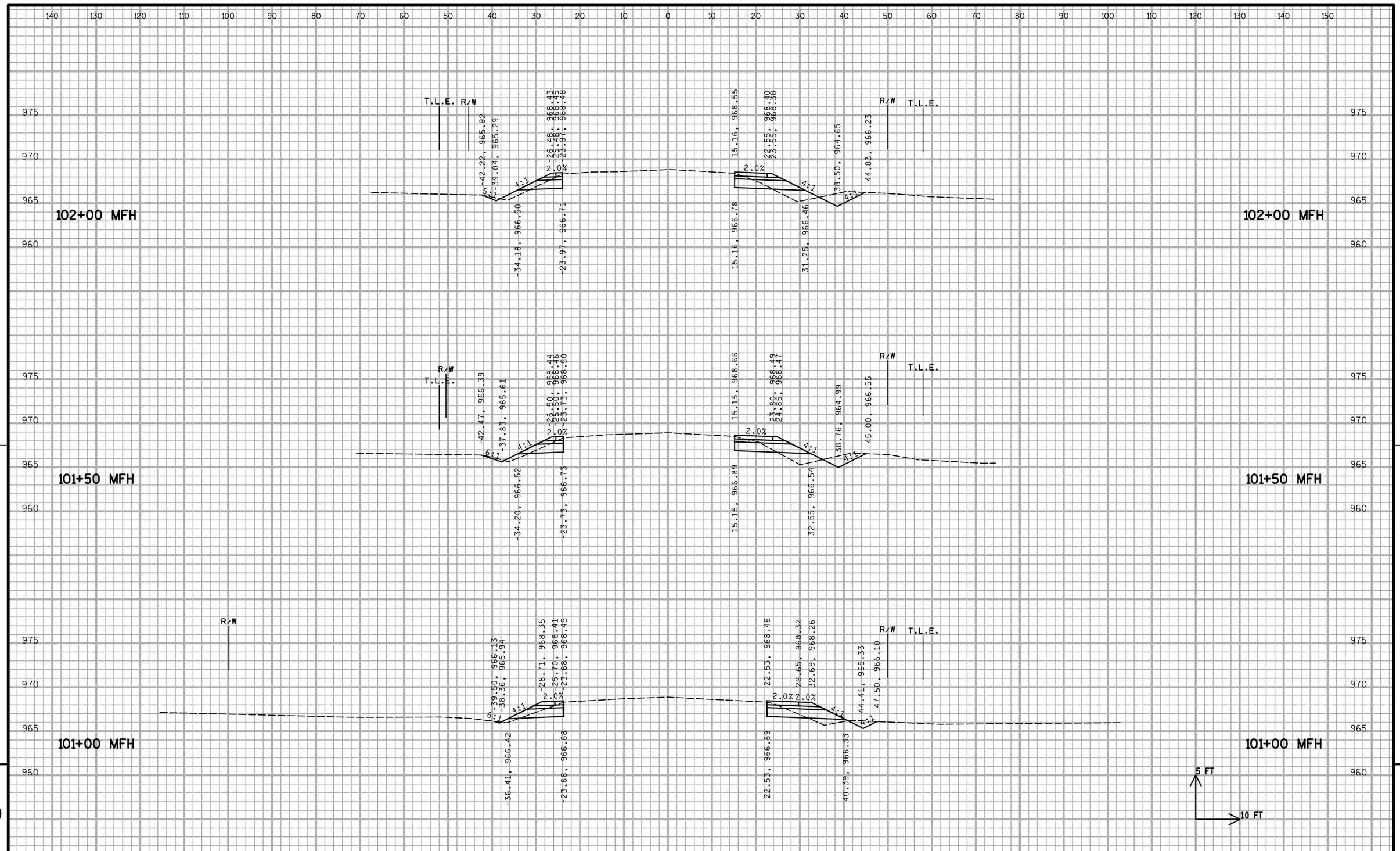
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET 1417	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090208_xs_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



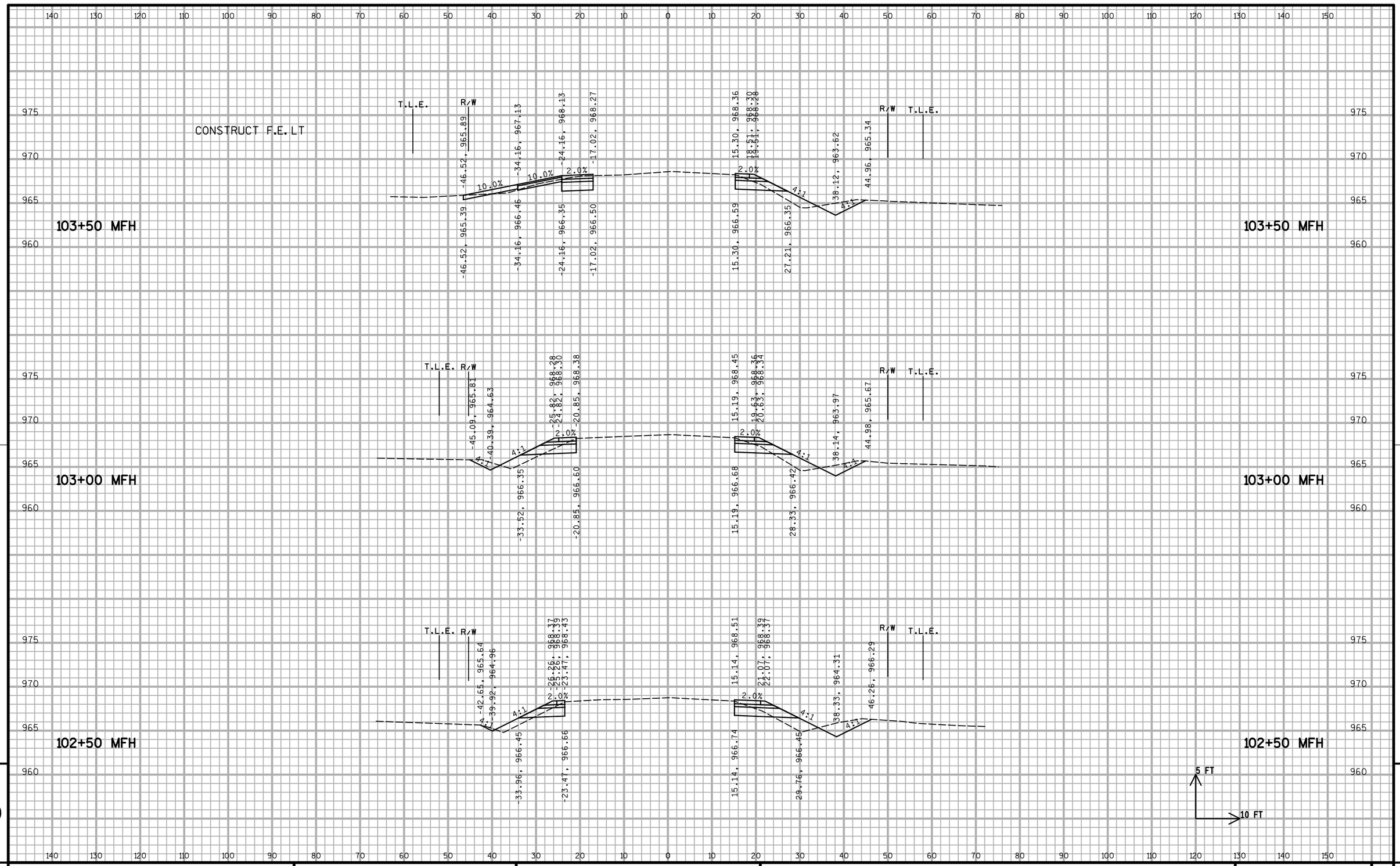
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET 1418	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090208_xs_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



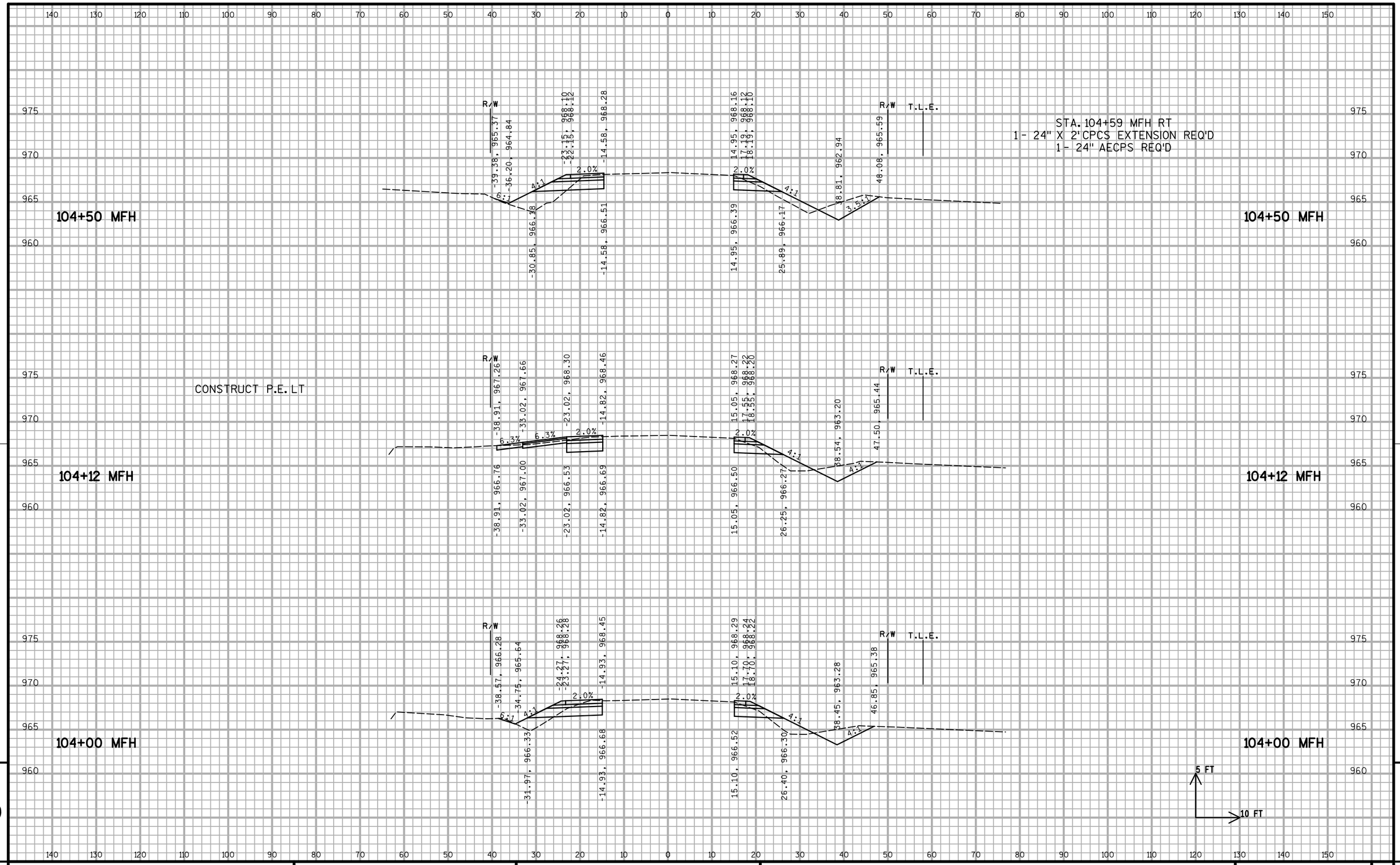
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET 1419	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090208_xs_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



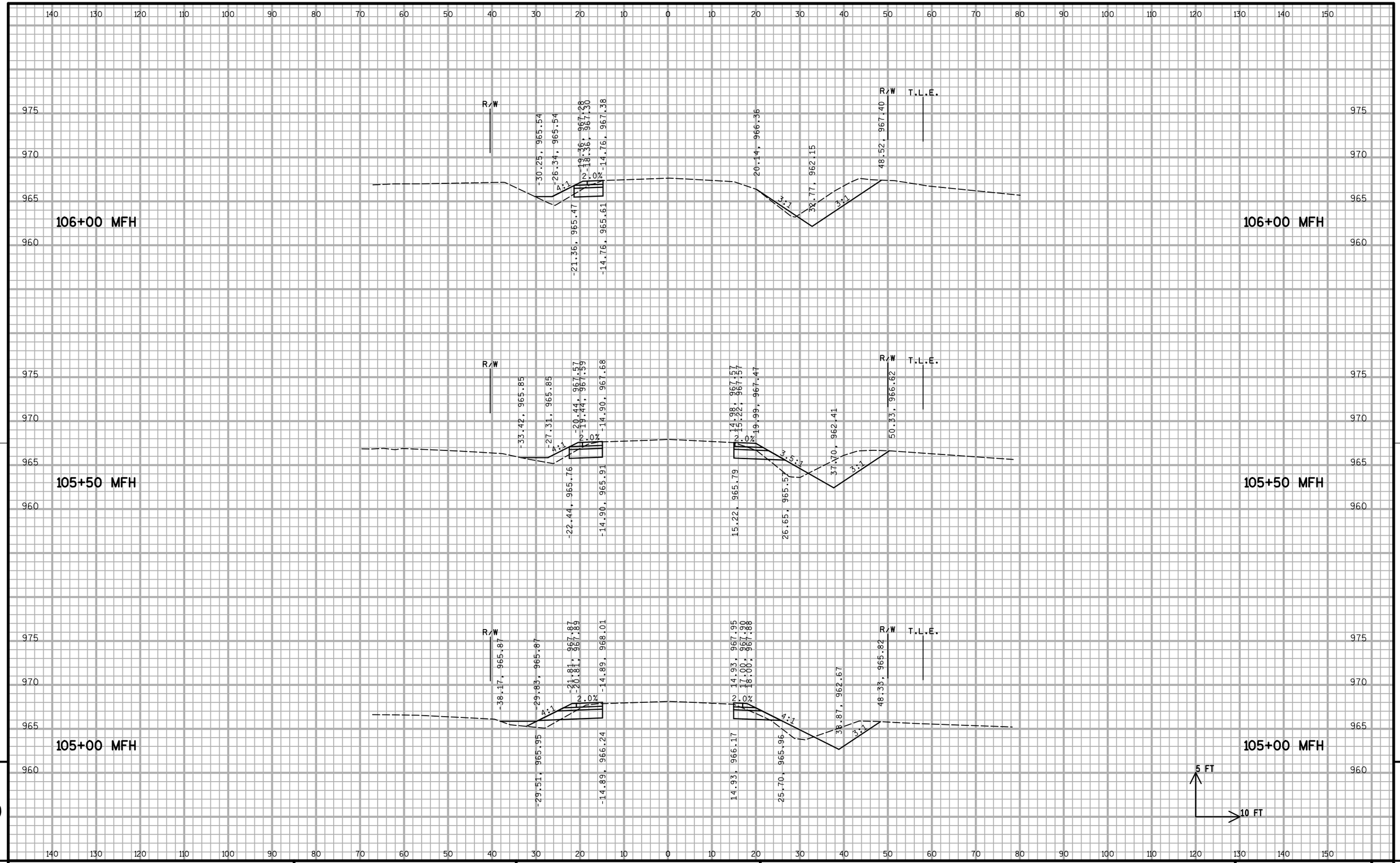
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET 1420	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090208_xs_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



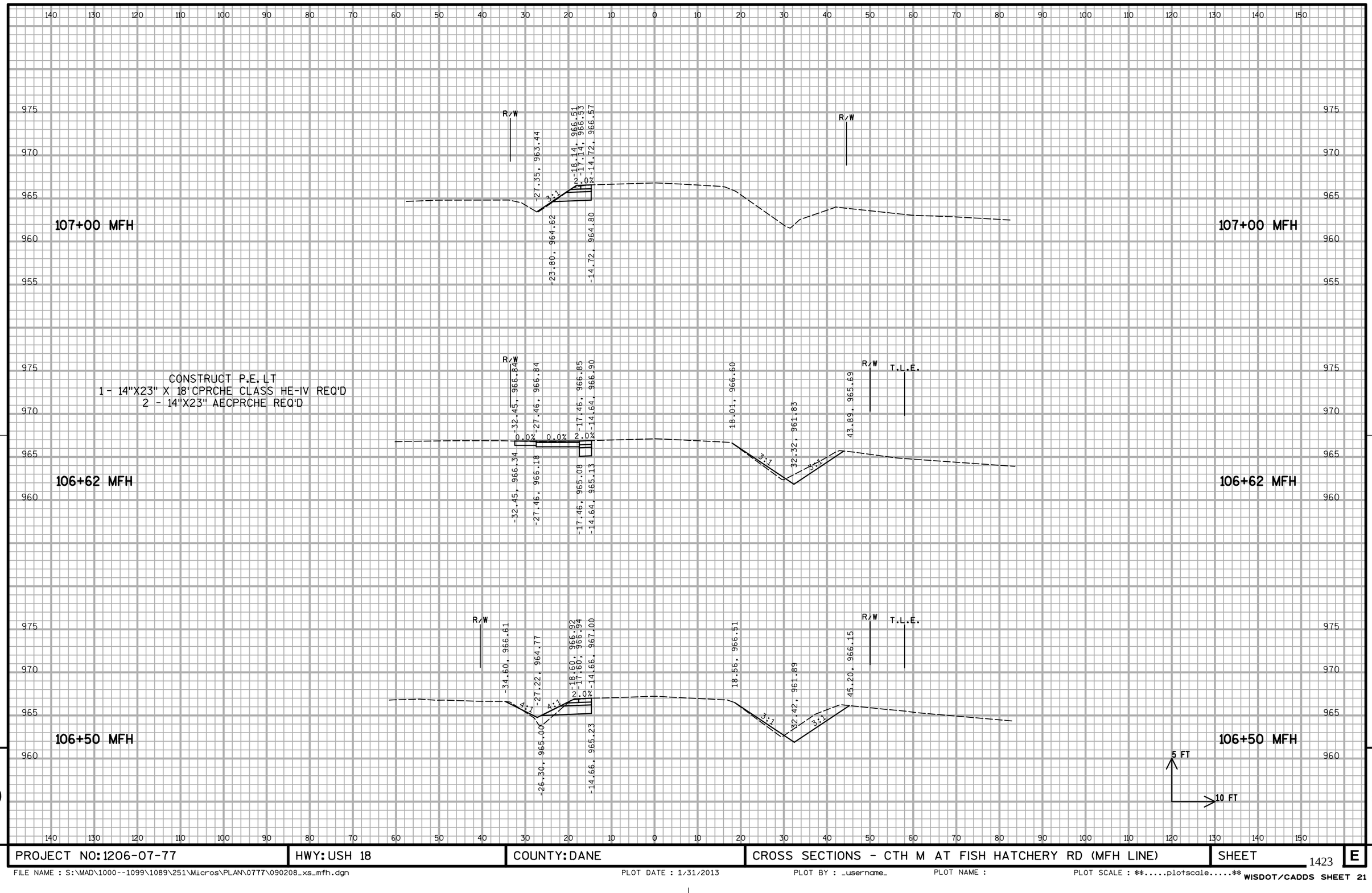
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090208_xs_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET 1422	E

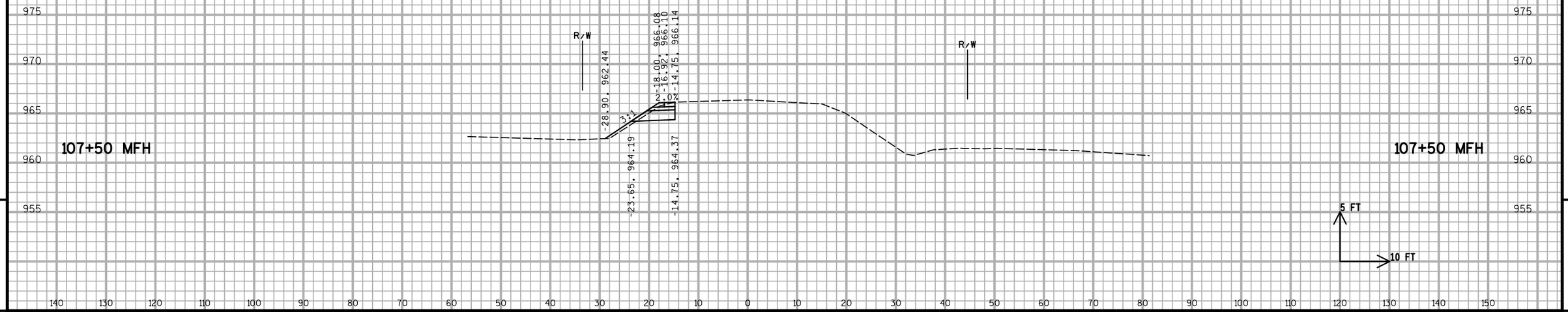
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET 1423	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090208_xs_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA. 107+98.1 MFH

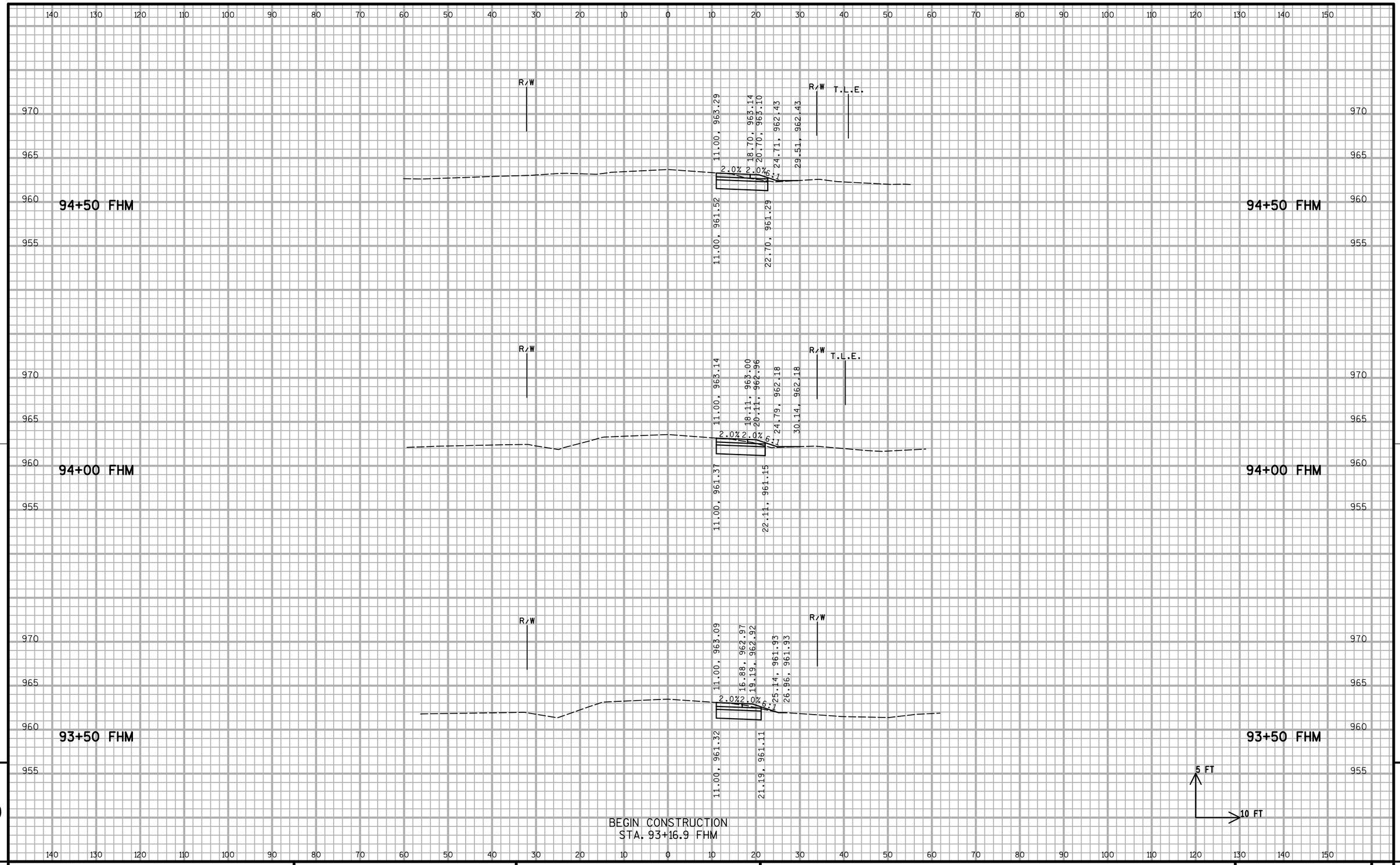


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - CTH M AT FISH HATCHERY RD (MFH LINE)	SHEET 1424	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090208_xs_mfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

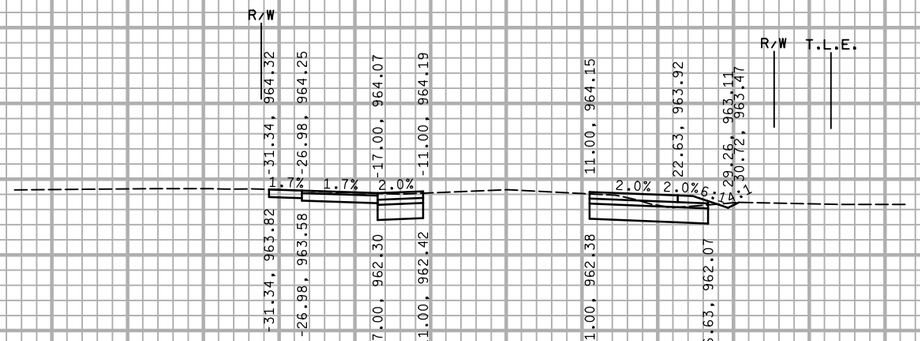


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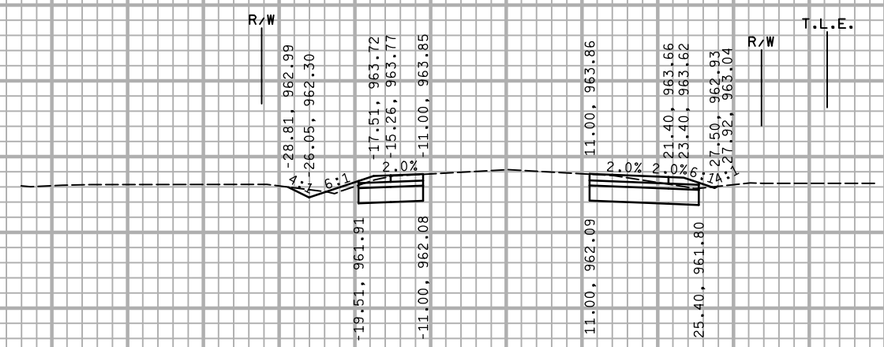
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT CTH M (FHM LINE)	SHEET 1425	E

CONSTRUCT P.E. LT
1 - 21"X15" X 14' PACS REQ'D
2 - 21"X15" AEPAS REQ'D



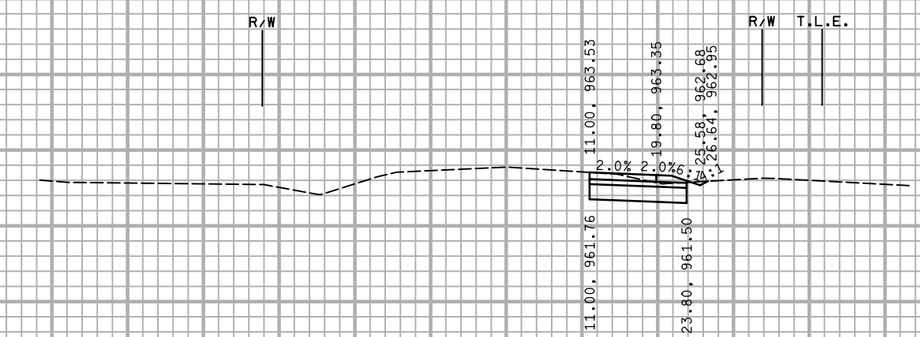
95+85 FHM

95+85 FHM



95+50 FHM

95+50 FHM



95+00 FHM

95+00 FHM

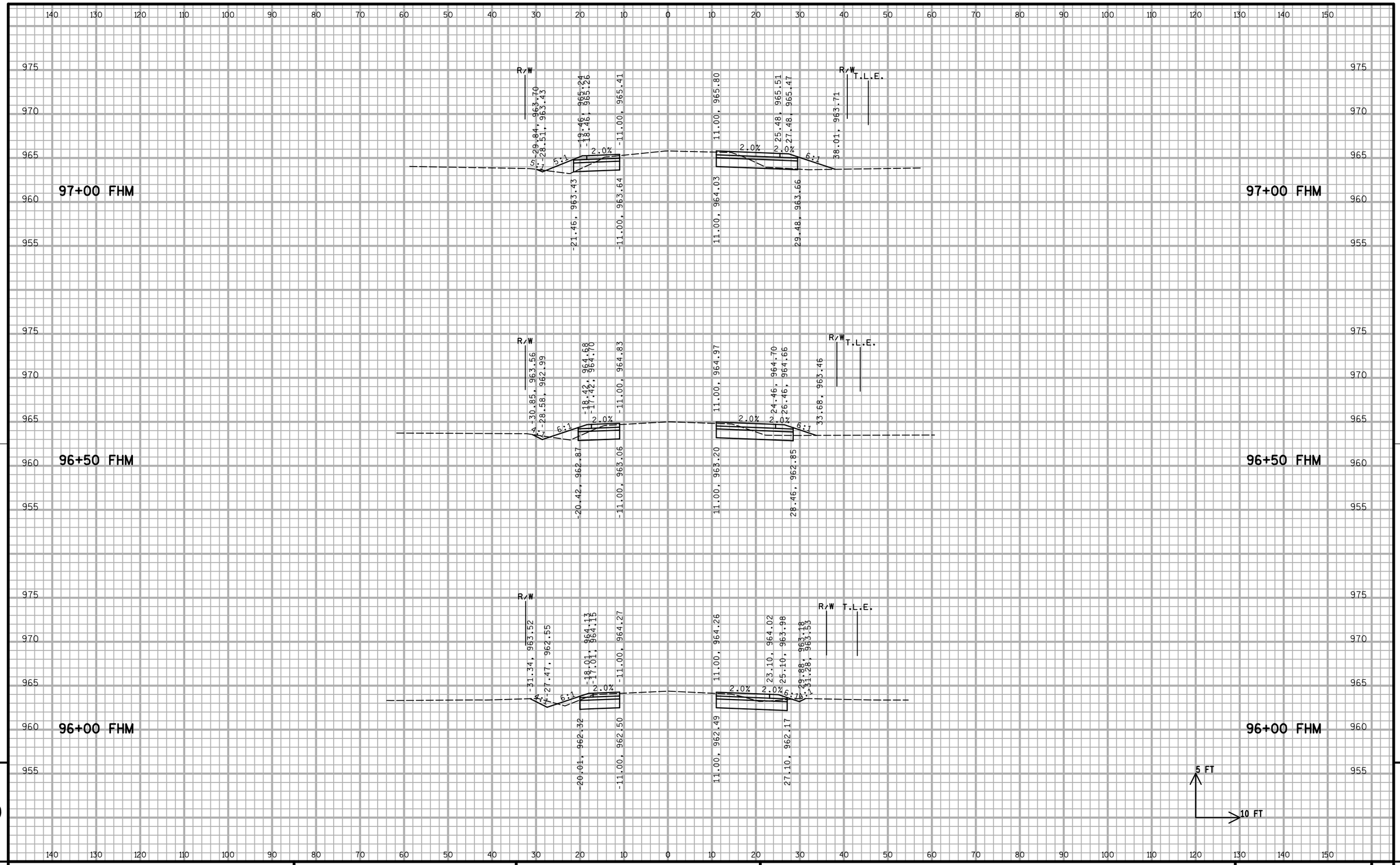
5 FT
10 FT

9

9

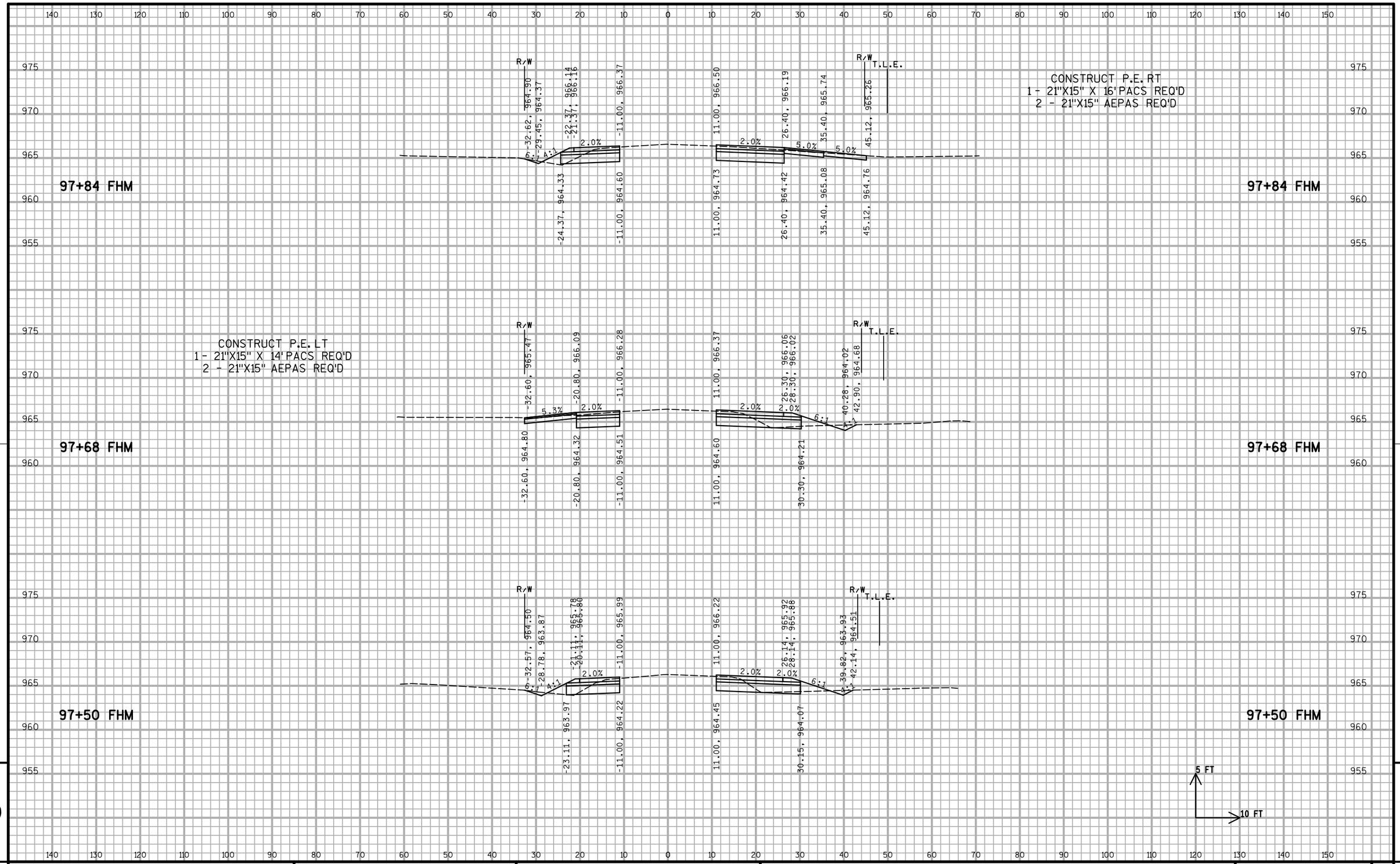
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT CTH M (FHM LINE)	SHEET 1426	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090209_xs_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



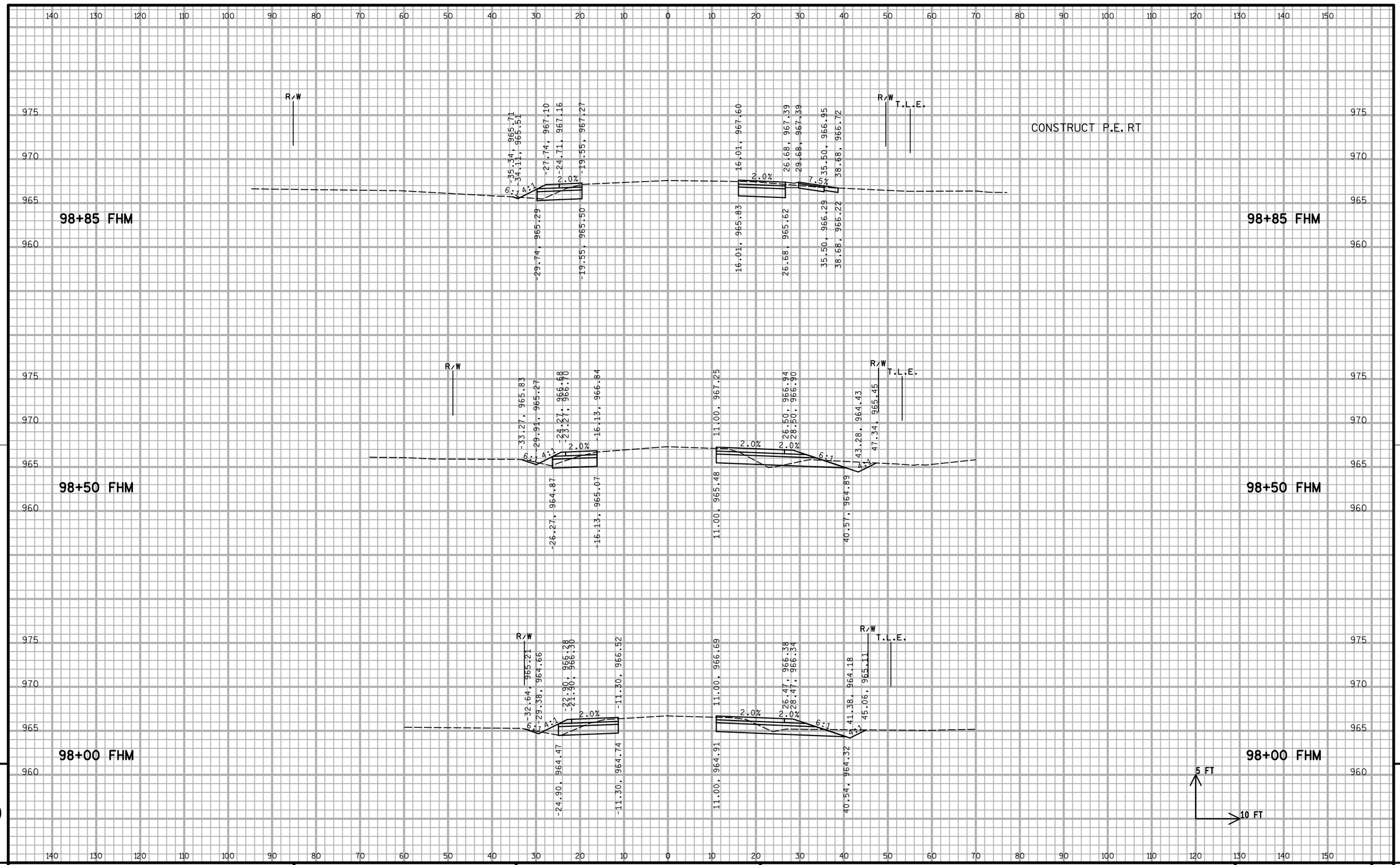
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT CTH M (FHM LINE)	SHEET 1427	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090209_xs_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



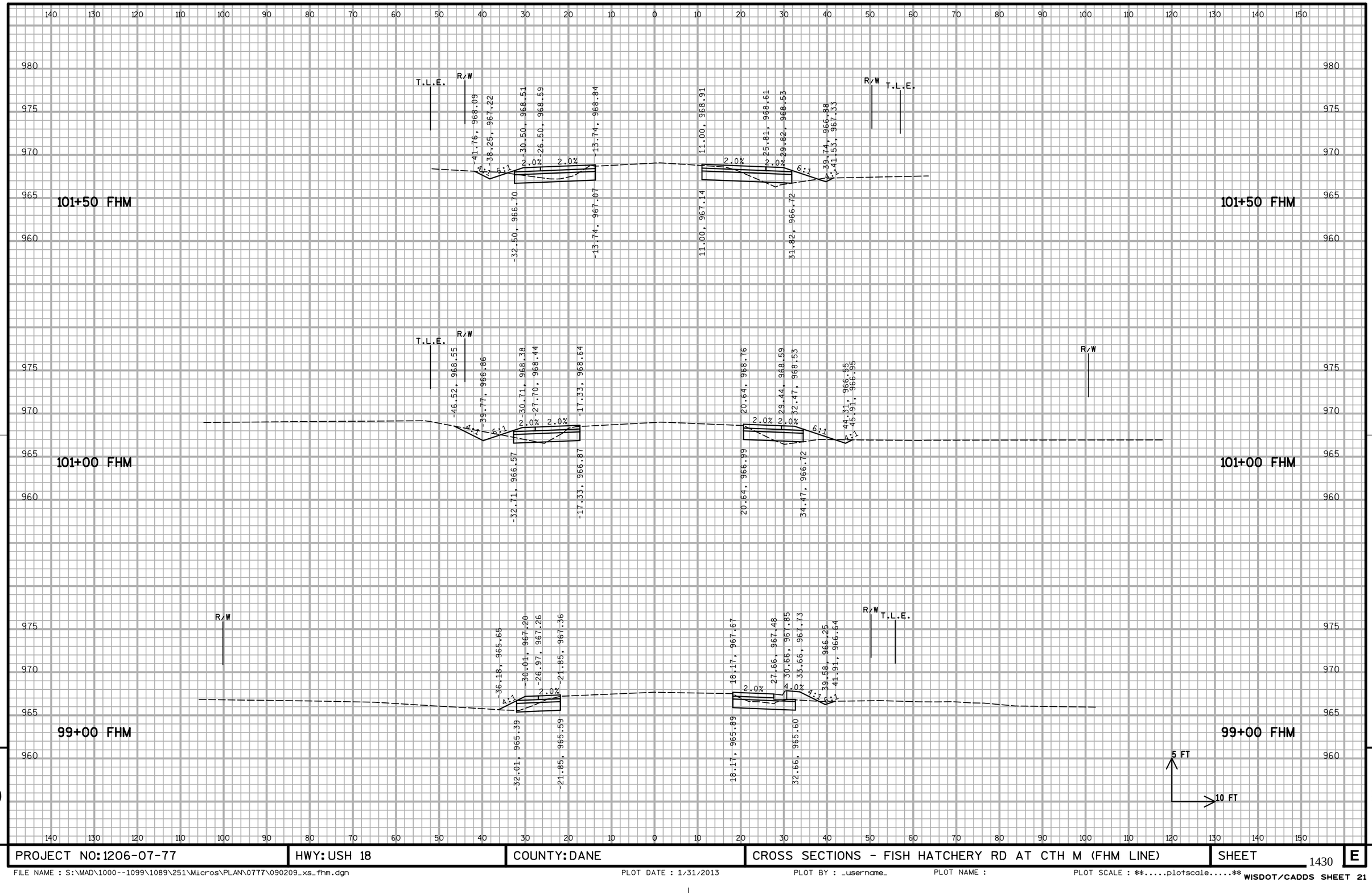
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT CTH M (FHM LINE)	SHEET 1428	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090209_xs_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



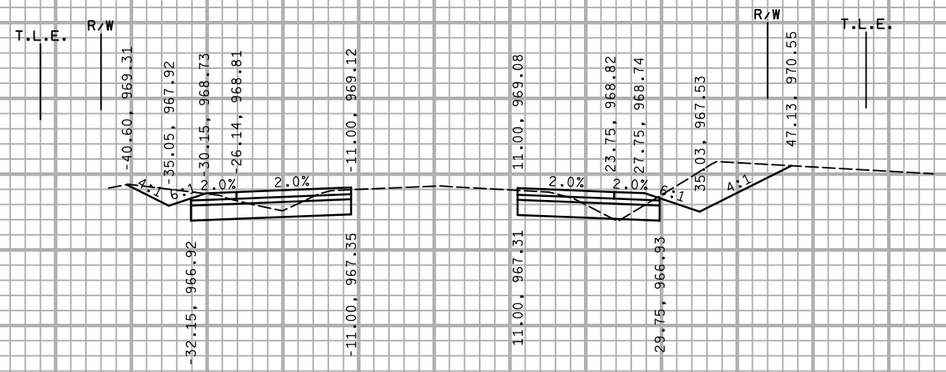
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT CTH M (FHM LINE)	SHEET 1429	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090209_xs_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



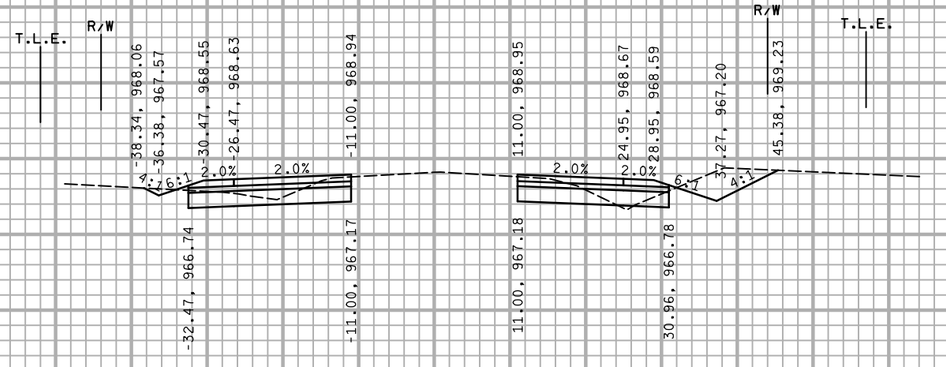
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT CTH M (FHM LINE)	SHEET 1430	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090209_xs_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



102+50 FHM

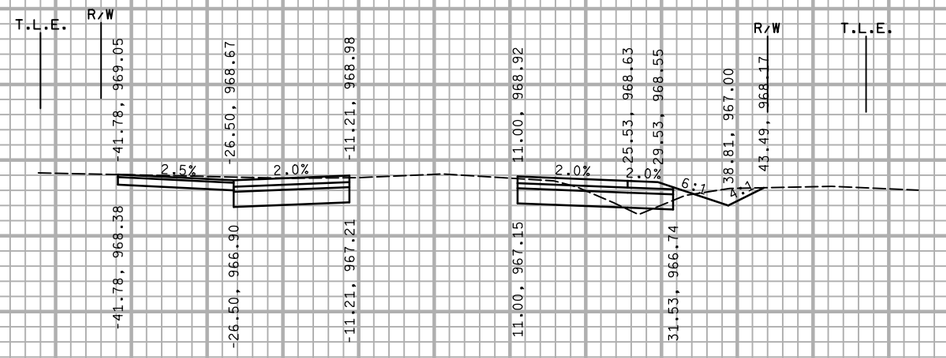
102+50 FHM



102+00 FHM

102+00 FHM

CONSTRUCT P.E. LT
1 - 21"X15" X 18' PACS REQ'D
2 - 21"X15" AEPAS REQ'D



101+69 FHM

101+69 FHM

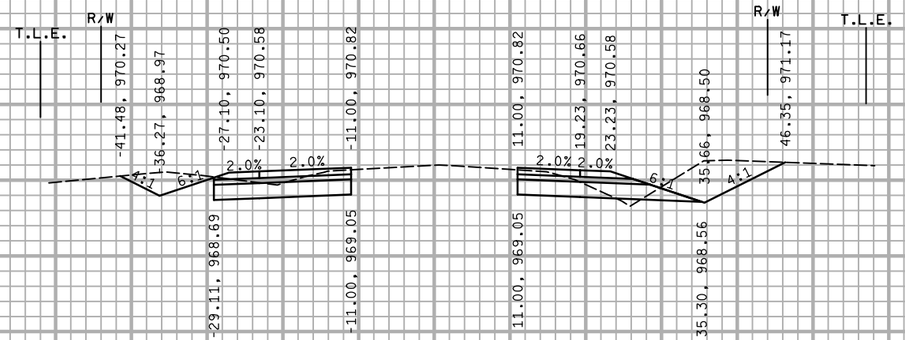
5 FT
10 FT

9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT CTH M (FHM LINE)	SHEET 1431	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090209_xs_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



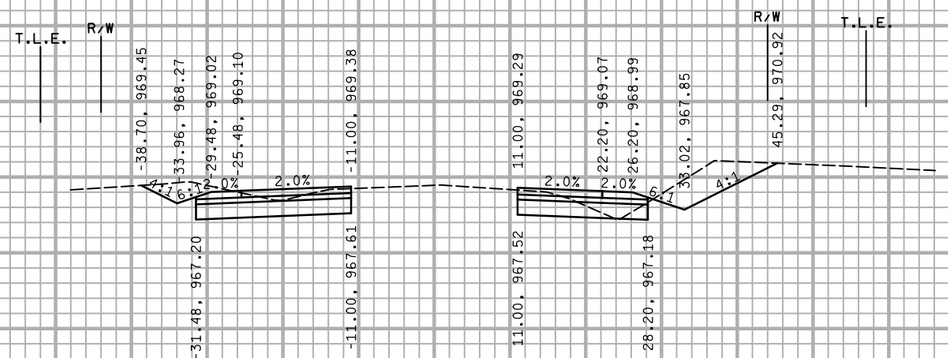
104+00 FHM

104+00 FHM



103+50 FHM

103+50 FHM



103+00 FHM

103+00 FHM

5 FT

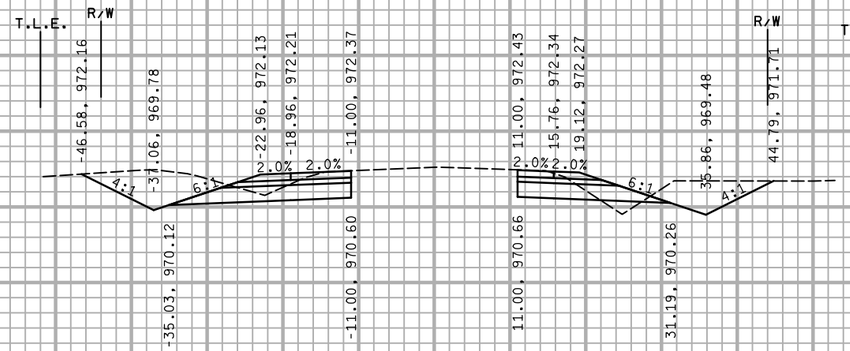
10 FT

9

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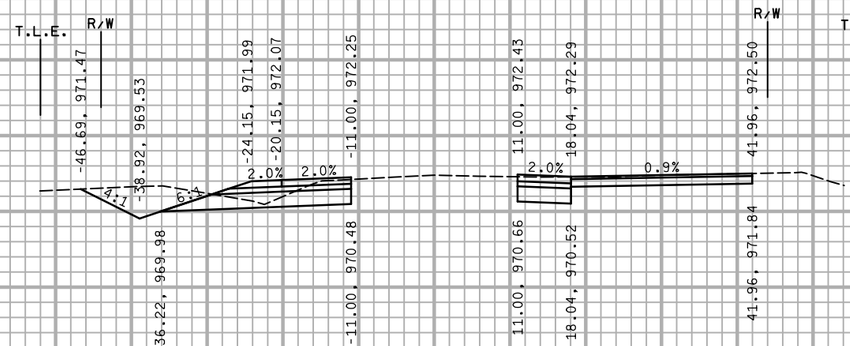
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT CTH M (FHM LINE)	SHEET 1432	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090209_xs_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



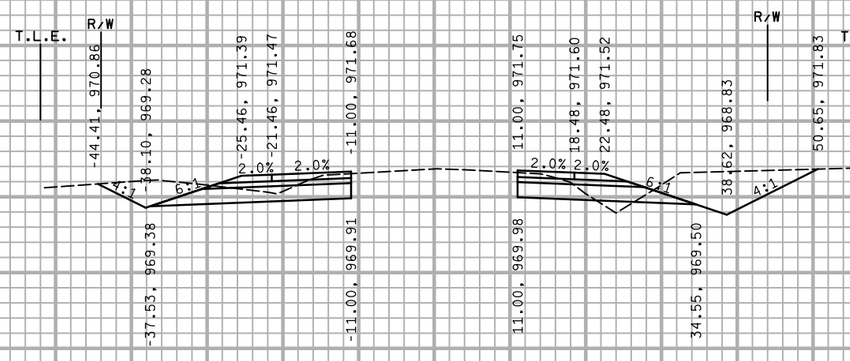
105+50 FHM

105+50 FHM



105+00 FHM

105+00 FHM



104+50 FHM

104+50 FHM

CONSTRUCT P.E. RT
1 - 21"X15" X 40' PACS RED'D
2 - 21"X15" AEPAS REQ'D

5 FT
10 FT

9

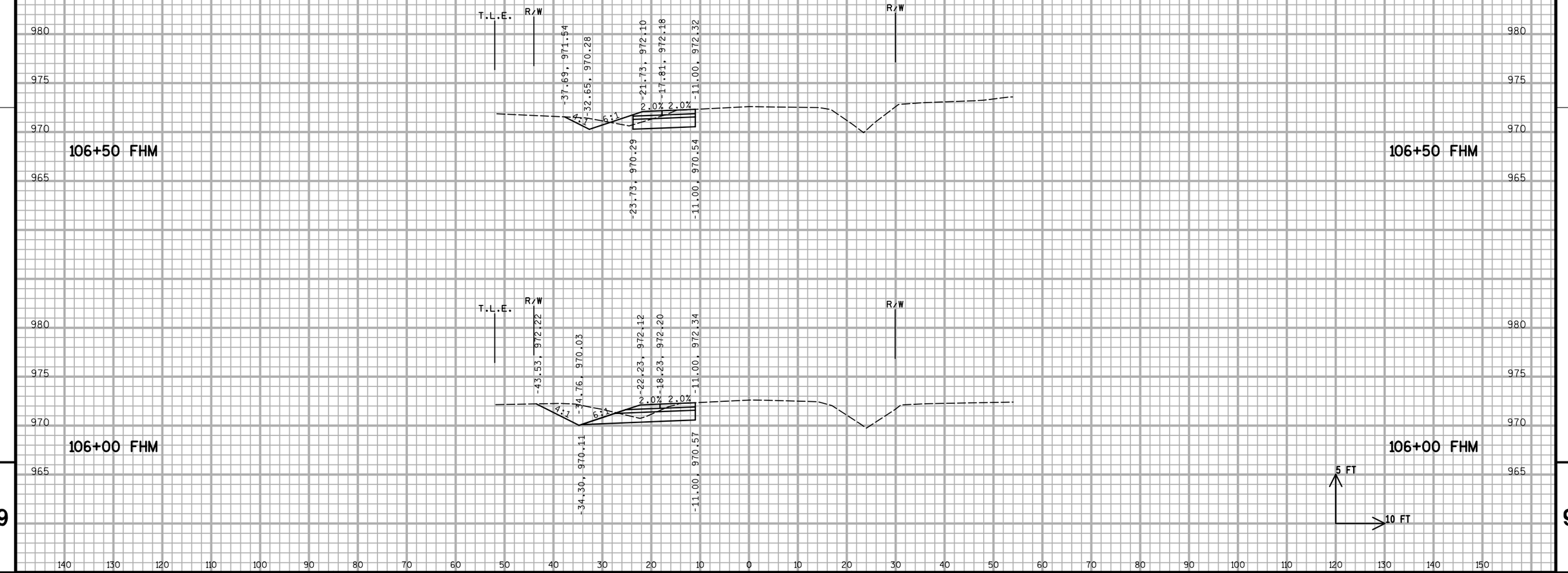
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT CTH M (FHM LINE)	SHEET 1433	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090209_xs_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA. 106+97.2 FHM



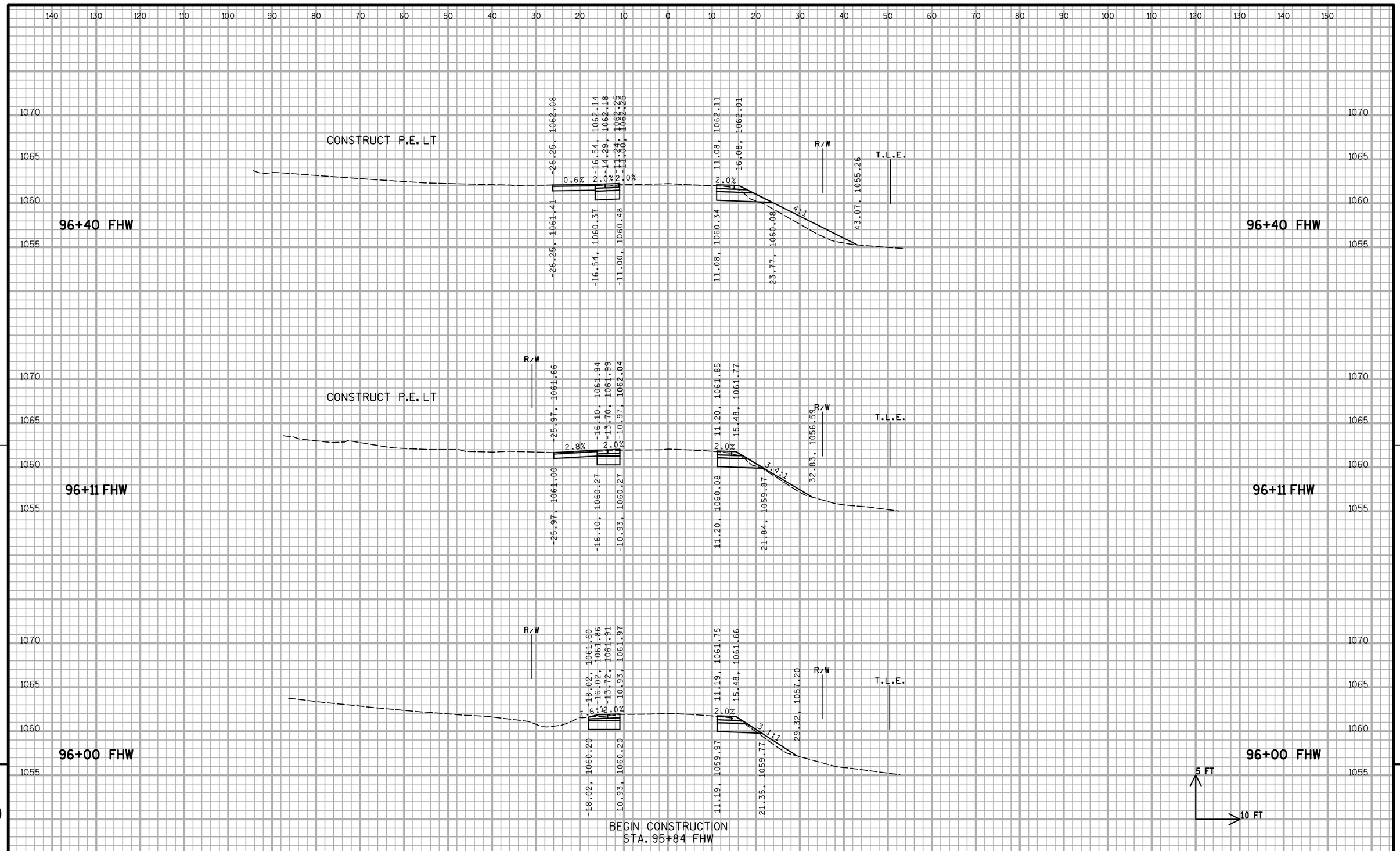
9

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT CTH M (FHM LINE)	SHEET 1434	E

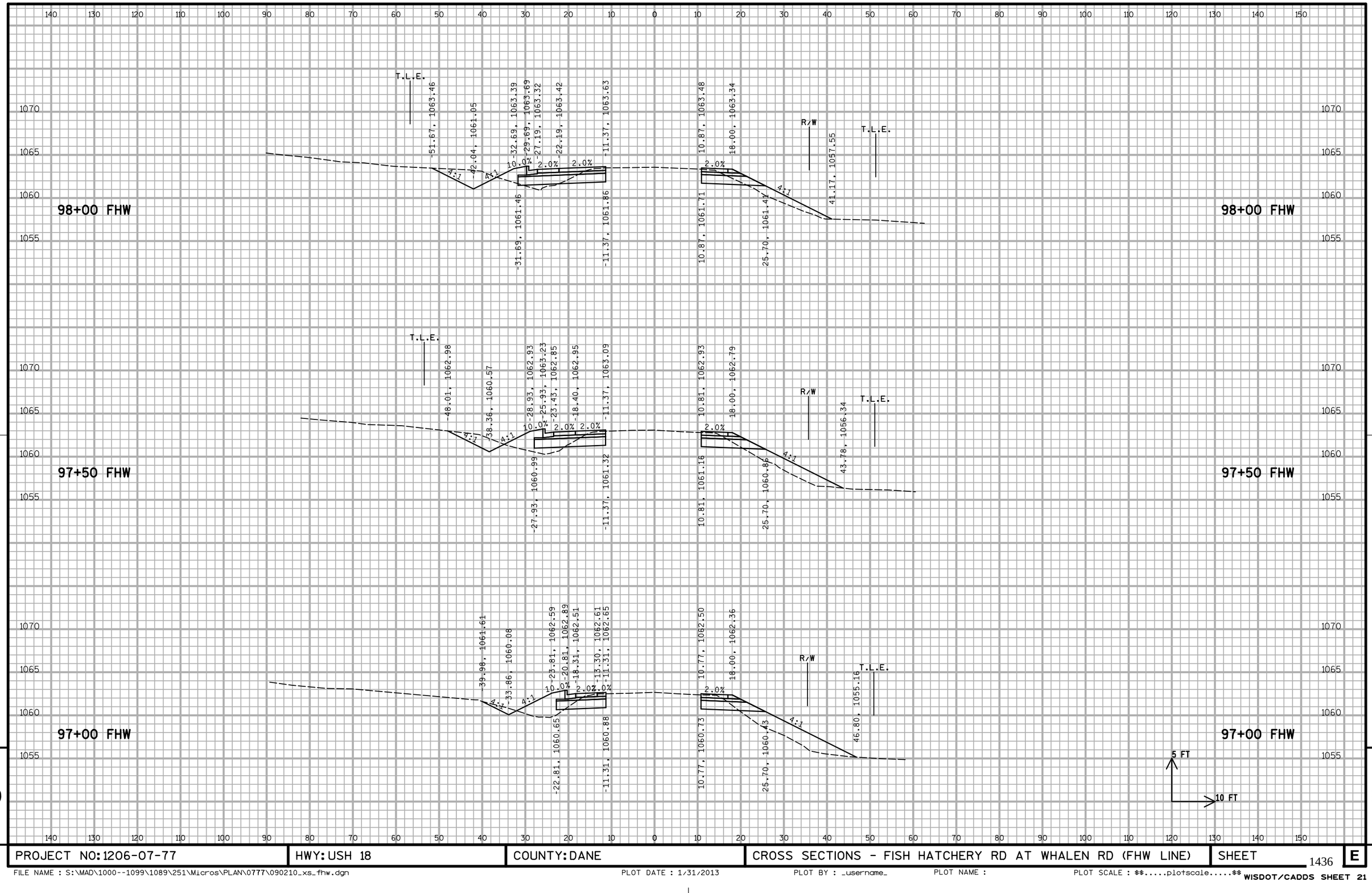
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090209_xs_fhm.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



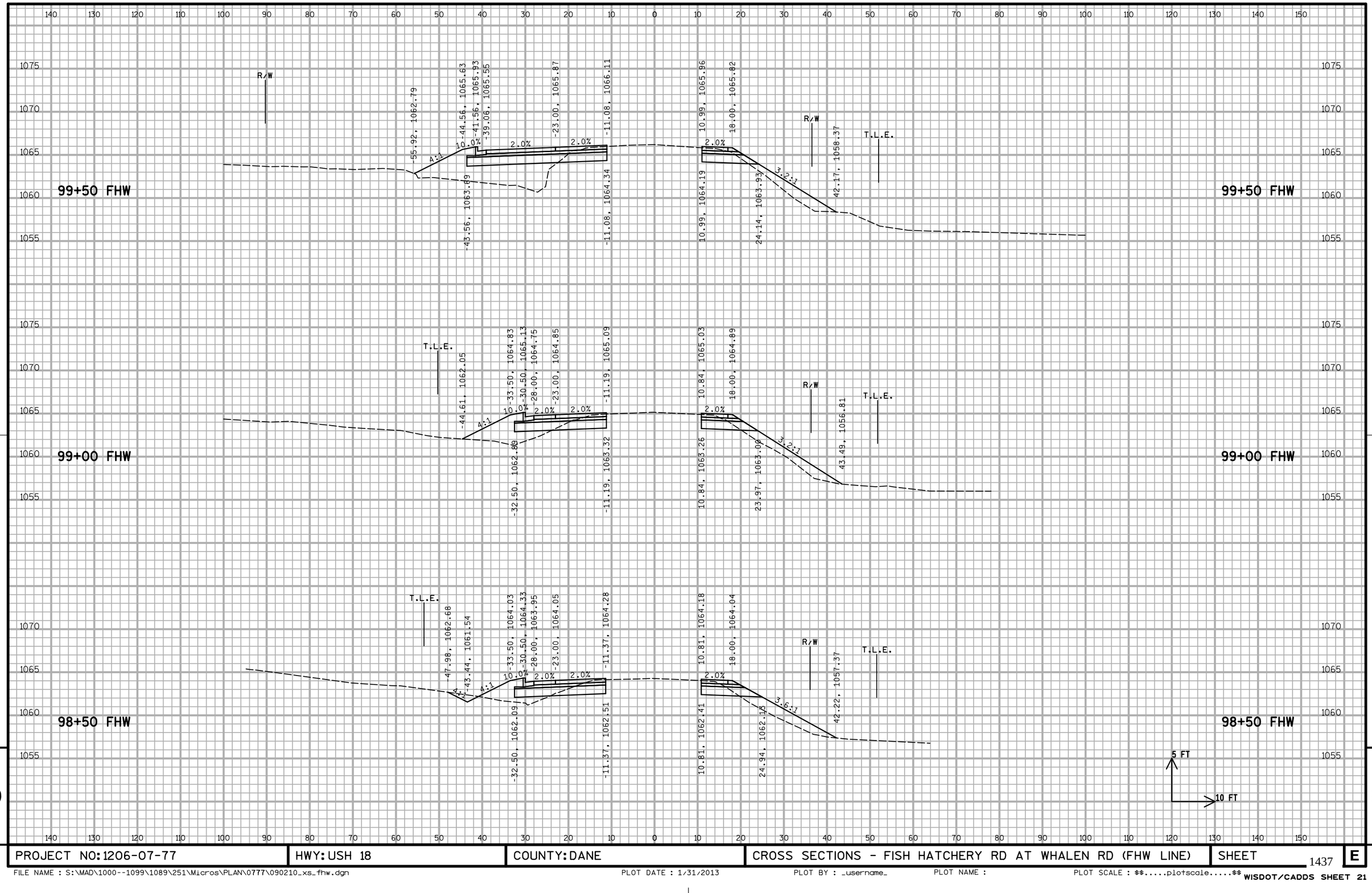
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1435	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090210_xs_fhw.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

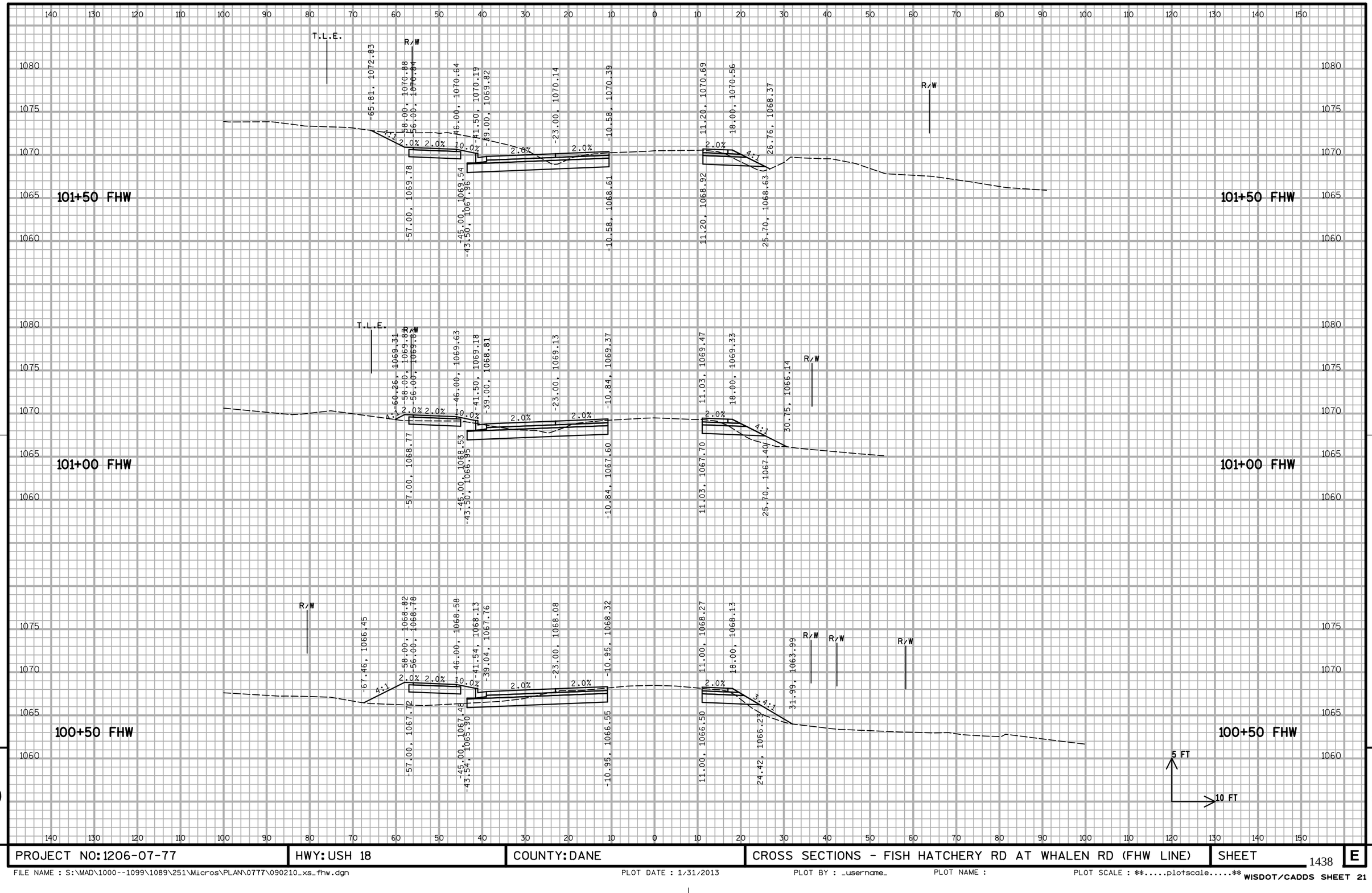


PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1436	E

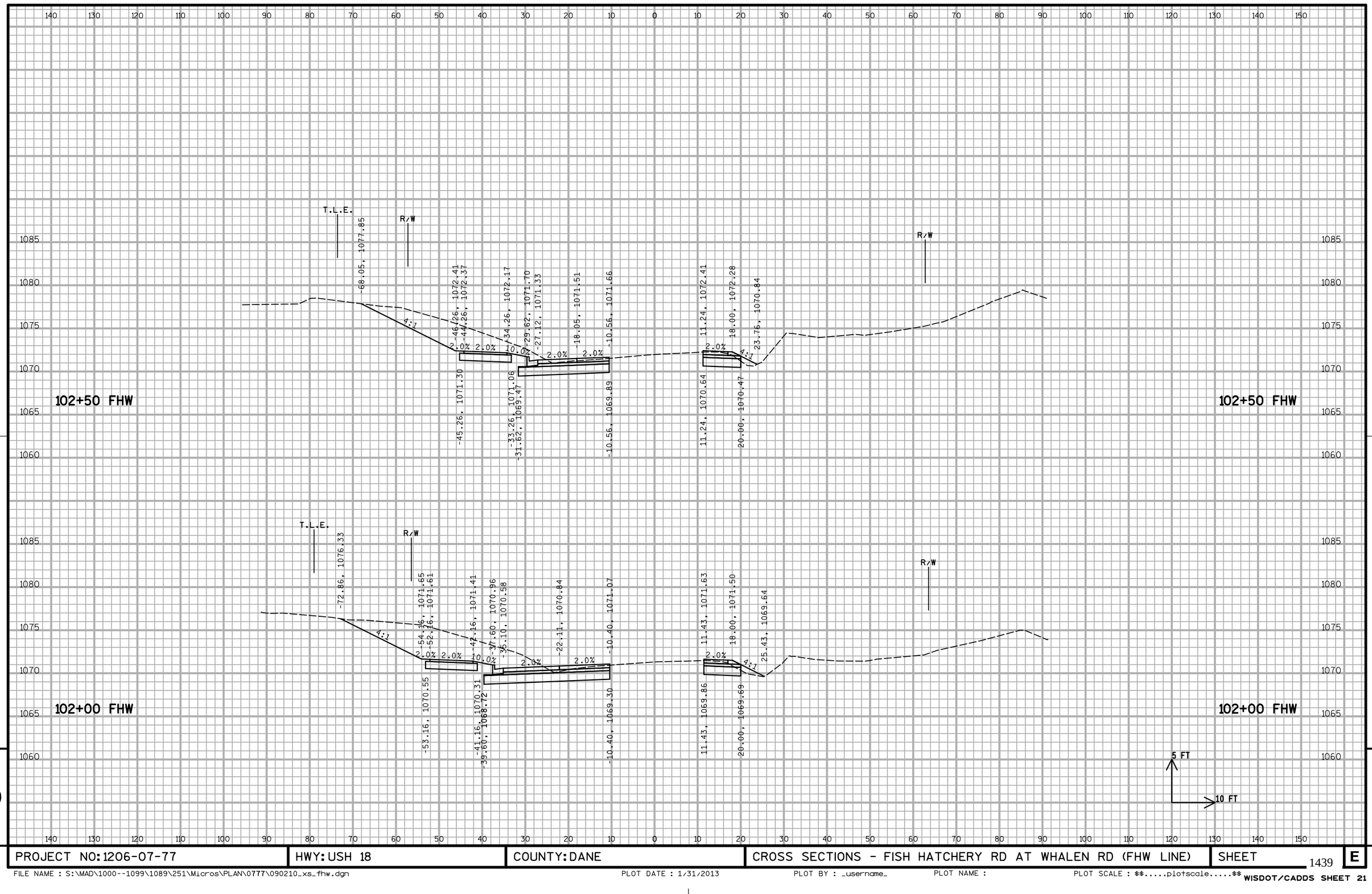
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1437	E



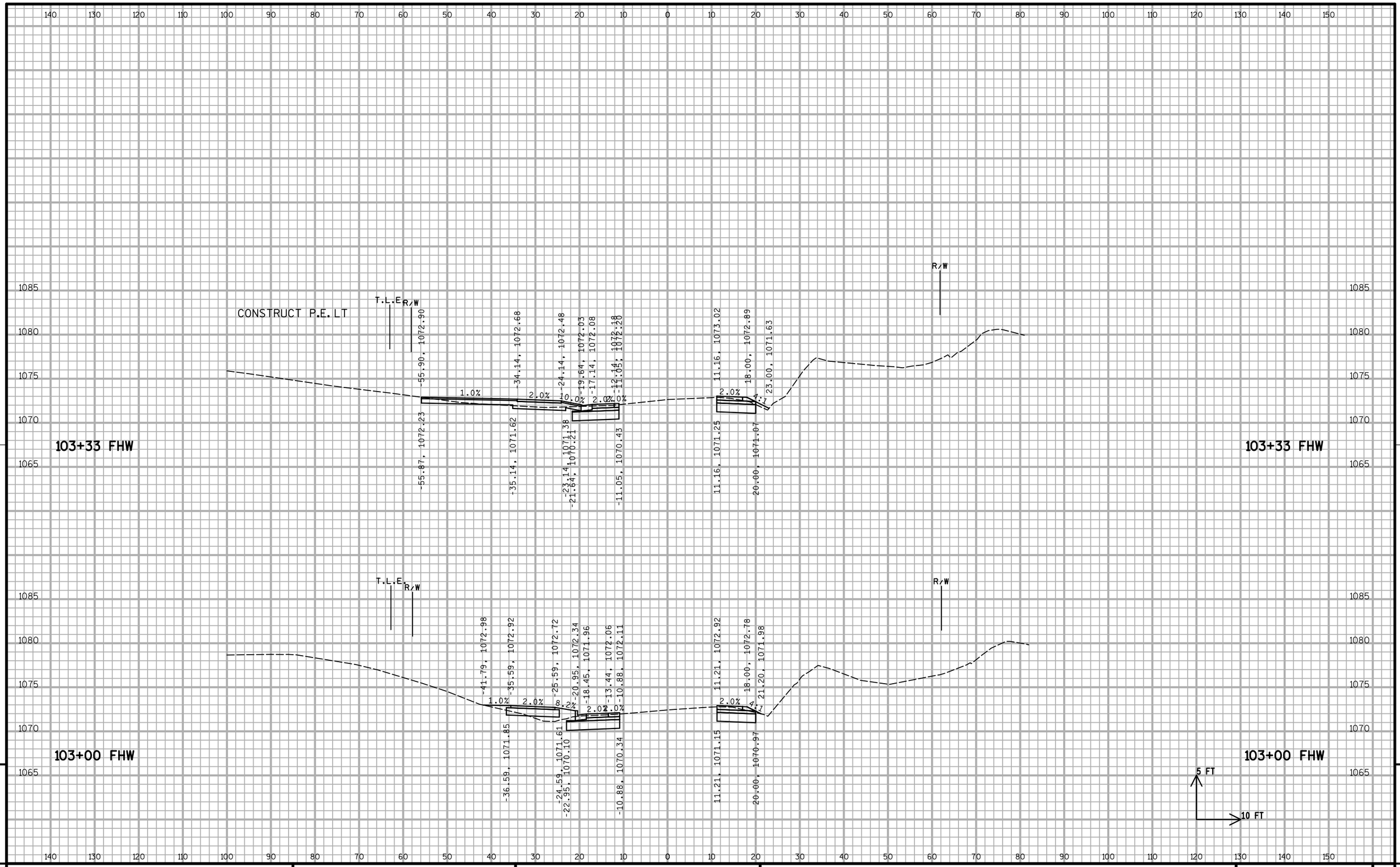
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1438	E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1439	E

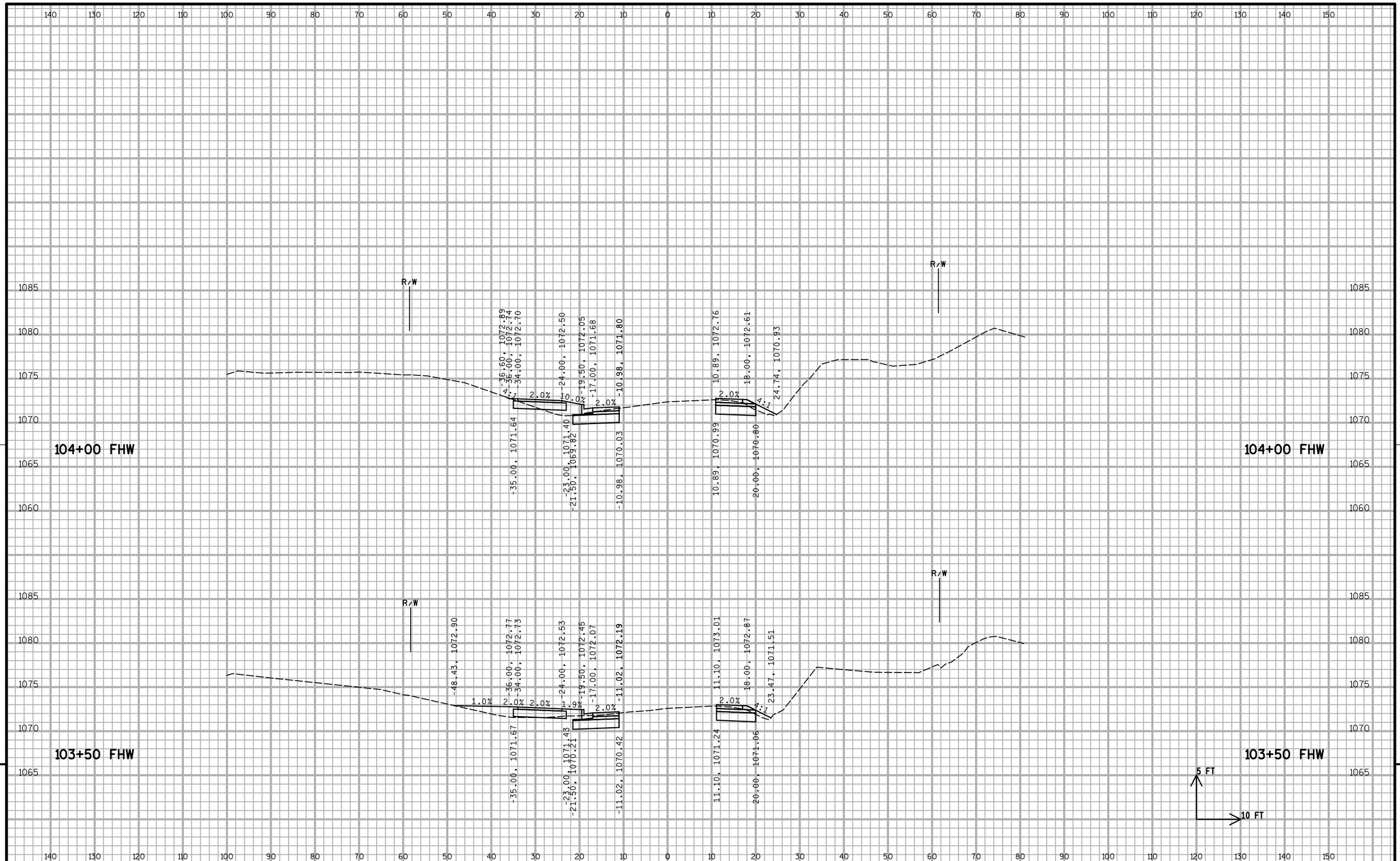
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WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1440 E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090210_xs_fhw.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

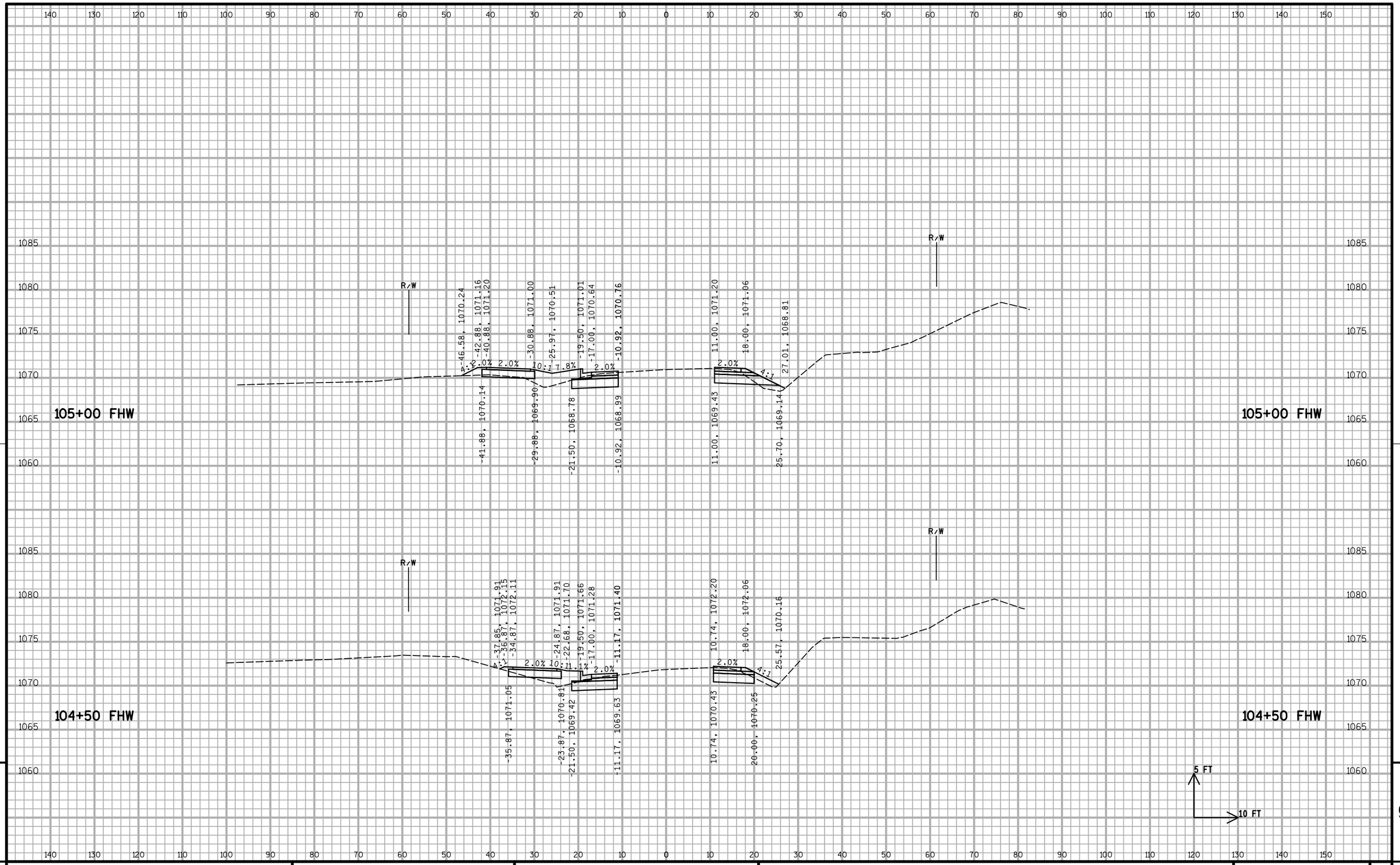


9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1441	E

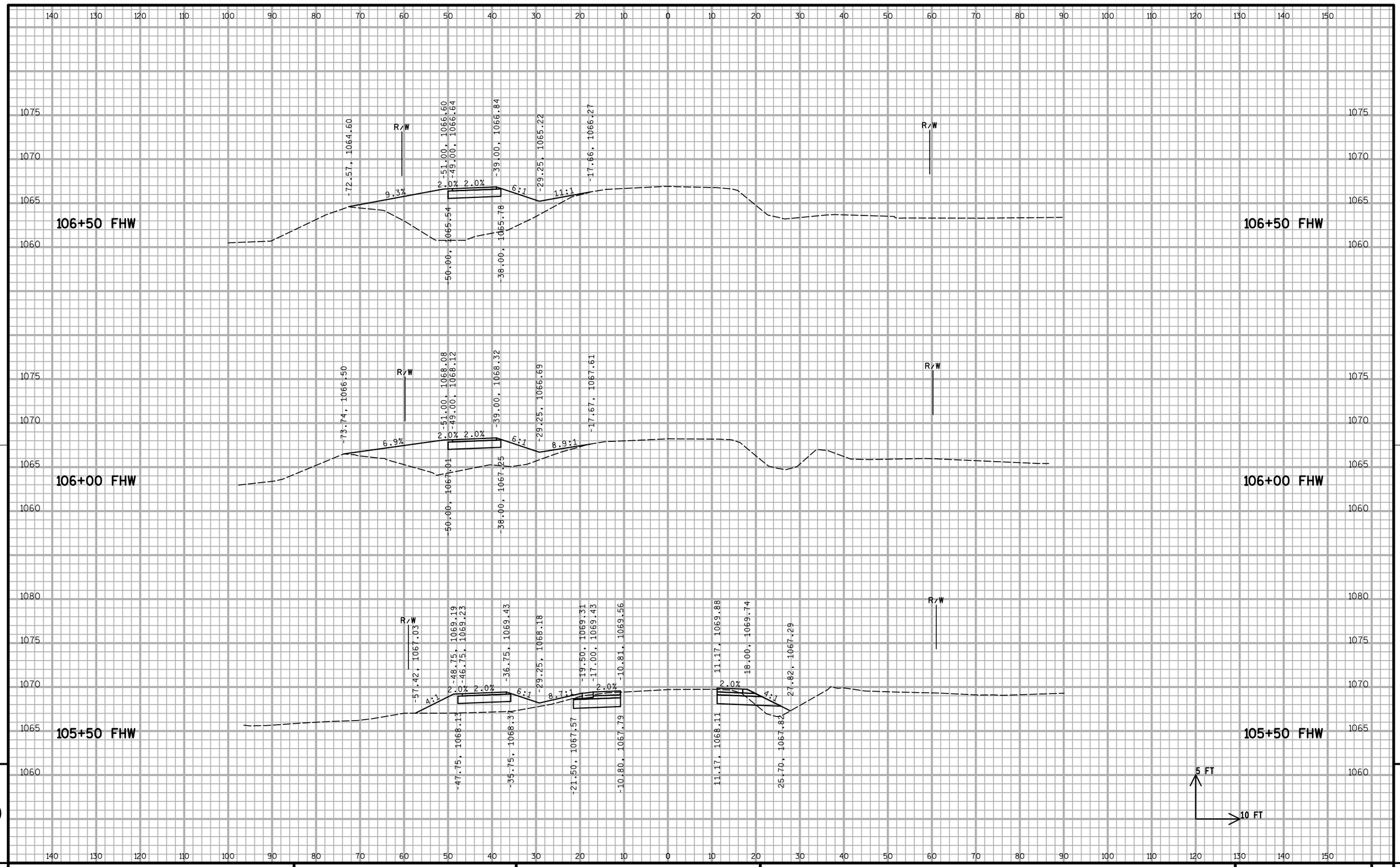
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1442	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090210_xs_fhw.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

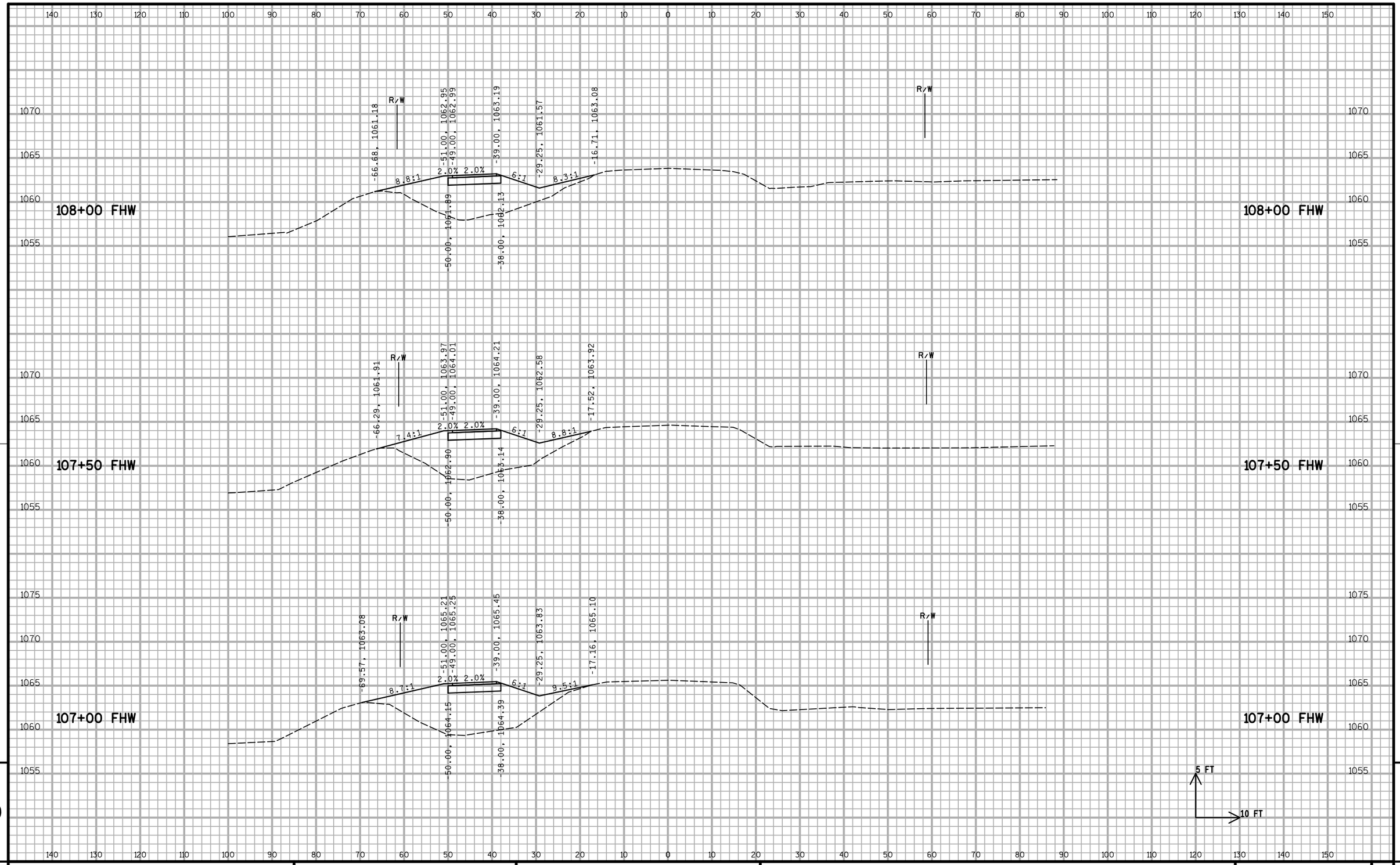
WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1443	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090210_xs_fhw.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



9

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1444	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090210_xs_fhw.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA. 108+96 FHW

108+50 FHW

R/W

-64.45, 1061.13

-50.00, 1060.83

-49.00, 1061.93

-51.00, 1061.86

-39.00, 1061.07

-39.00, 1062.13

-29.25, 1062.23

-20.84, 1062.57

5.5%

3.5%

2.0%

1.0%

4.0%

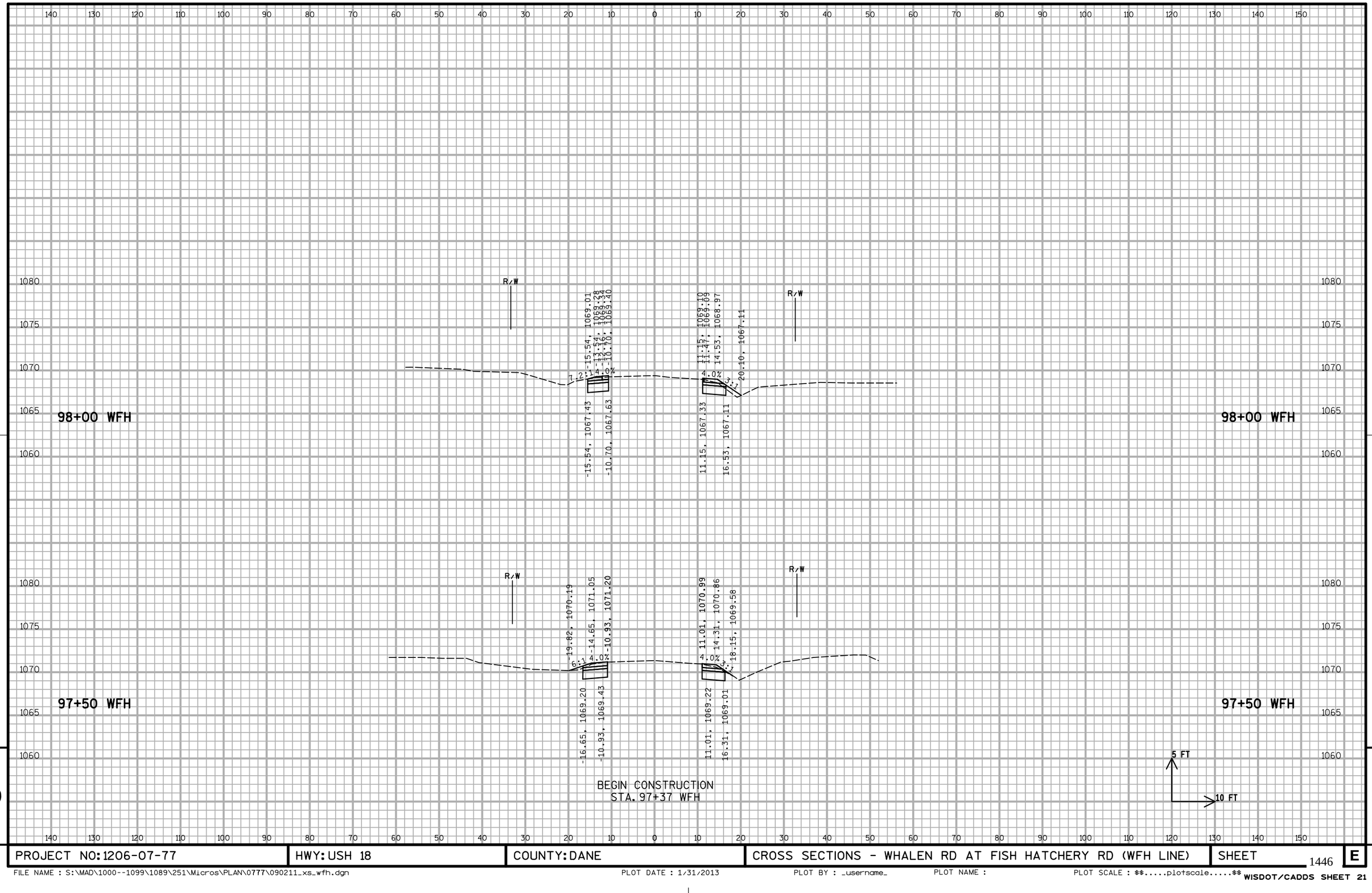
1075
1070
1065
1060
1055

5 FT

10 FT

9

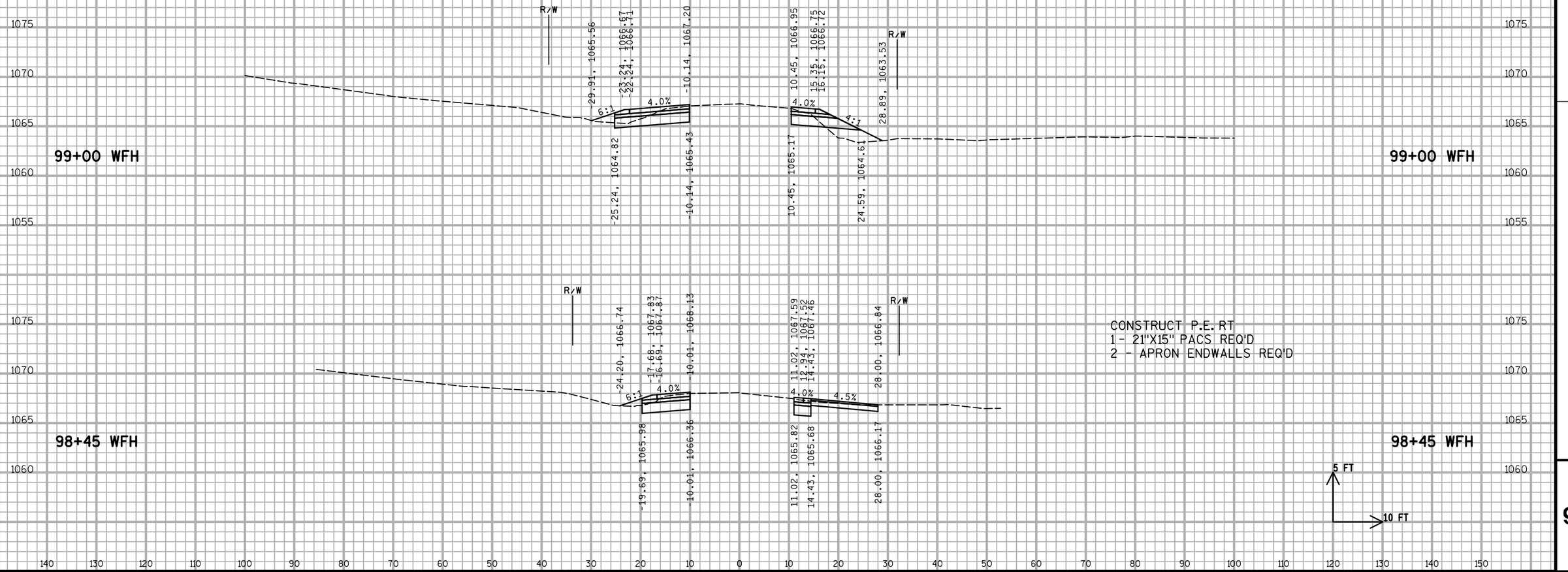
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - FISH HATCHERY RD AT WHALEN RD (FHW LINE)	SHEET 1445	E



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WHALEN RD AT FISH HATCHERY RD (WFH LINE)	SHEET 1446 E

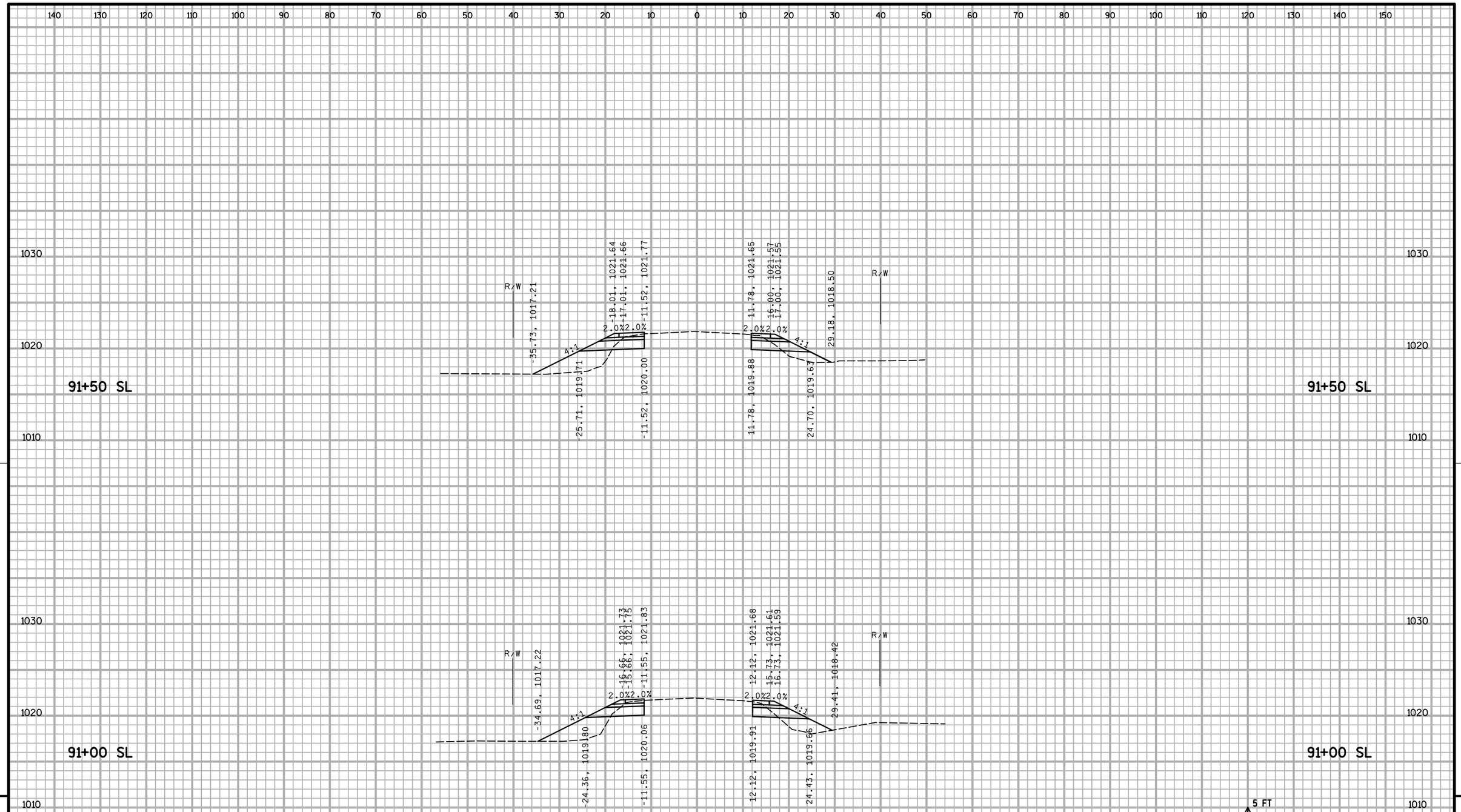
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END CONSTRUCTION
STA. 100+64 WFH



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - WHALEN RD AT FISH HATCHERY RD (WFH LINE)	SHEET 1447	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090211_xs_wfh.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



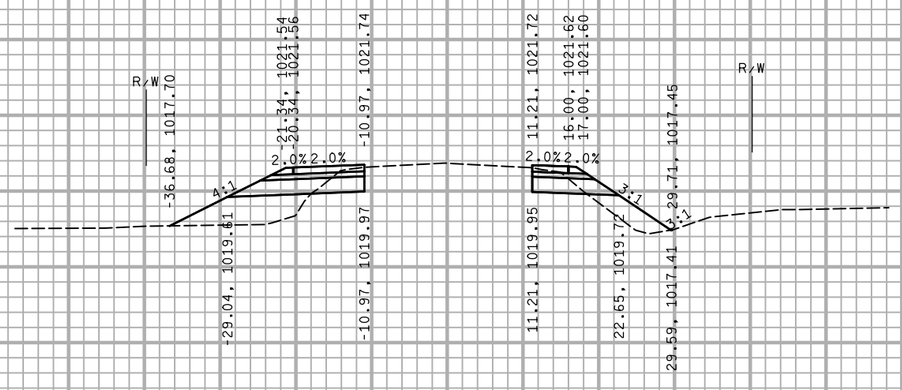
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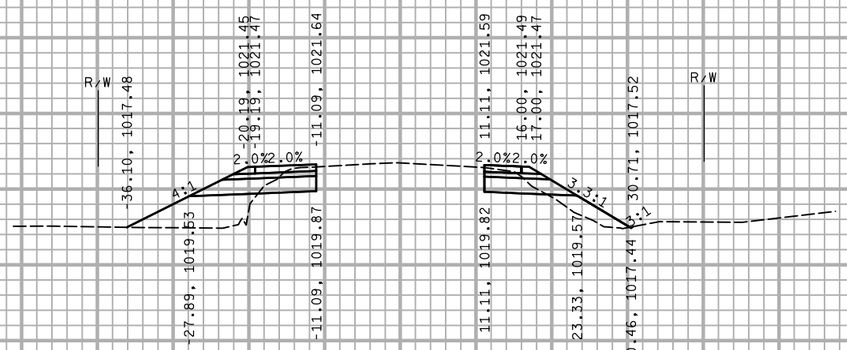
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1448	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



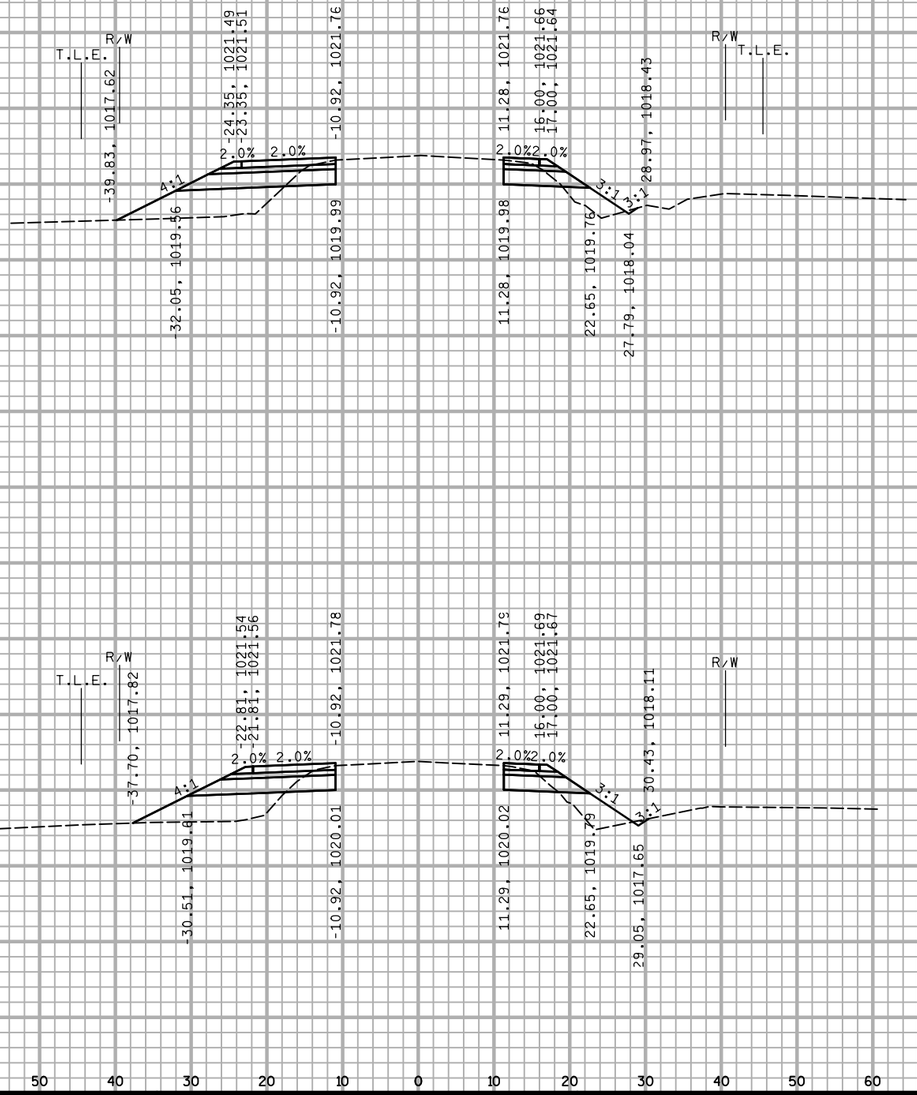
STA. 92+64 SL
1 - 49"X33" X 56' PACS REQ'D
2 - 49"X33" AEPAS REQ'D
SKEW = 2.41° RHF



9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1449	E

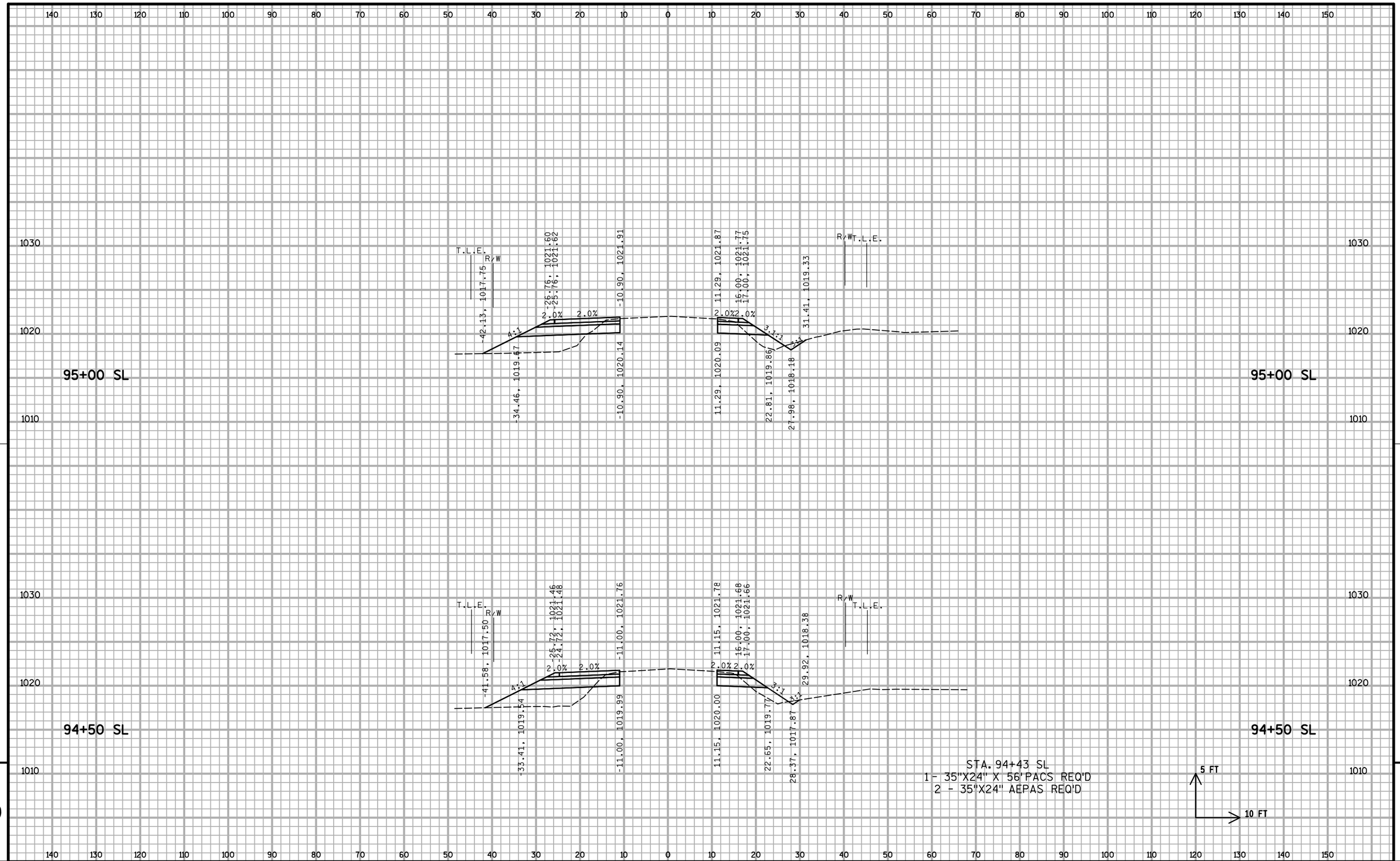


9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1450	E

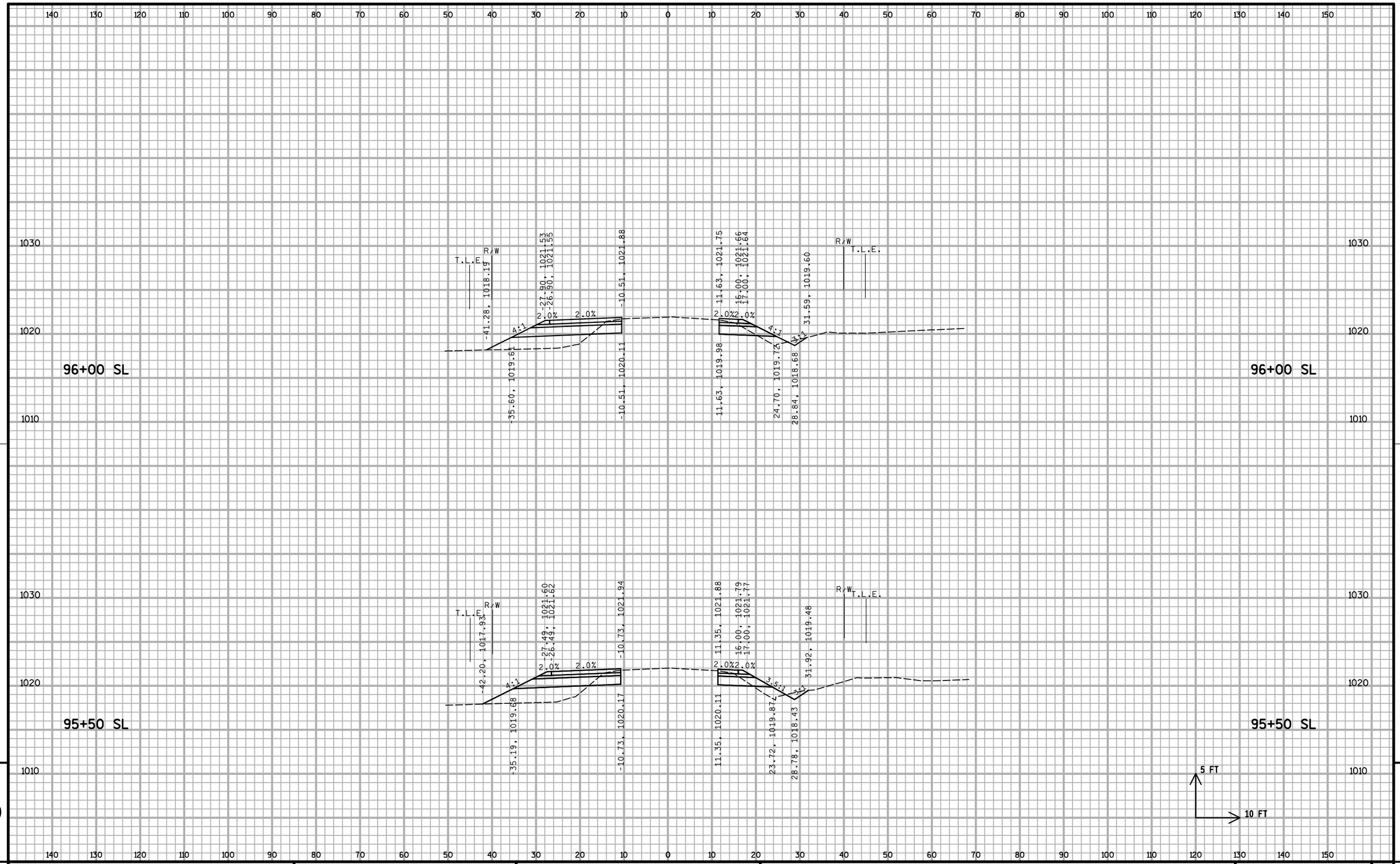
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



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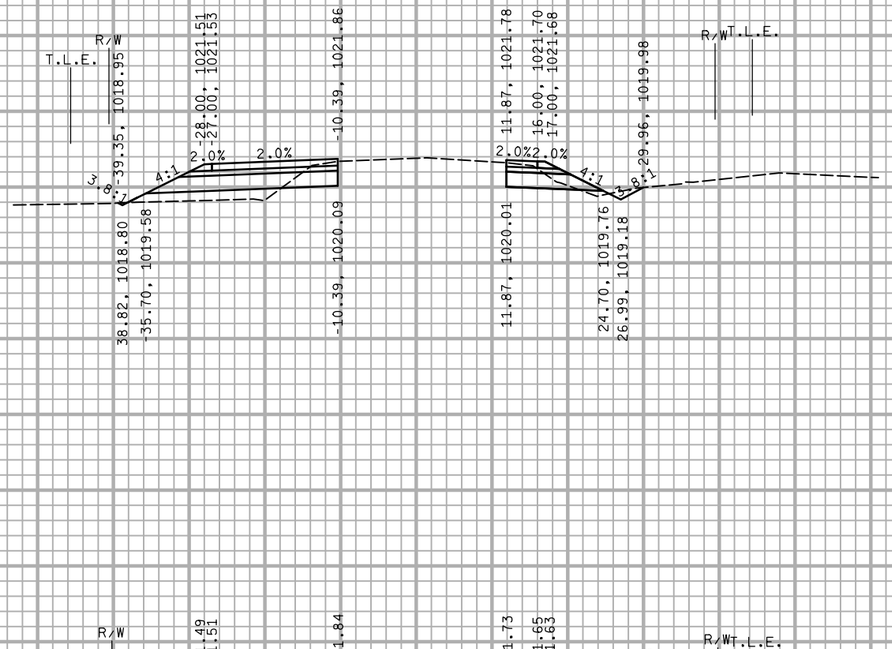
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1451	E



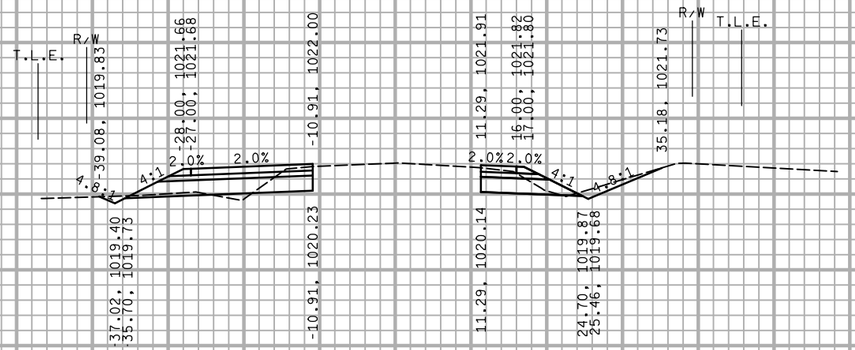
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1452	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



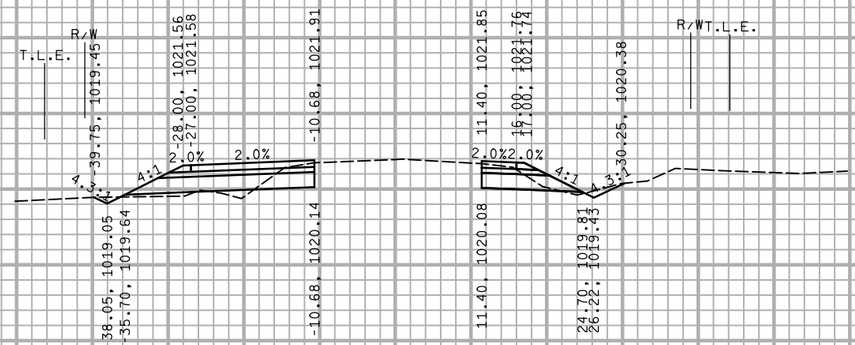
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1453	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



98+00 SL

98+00 SL



97+50 SL

97+50 SL

5 FT

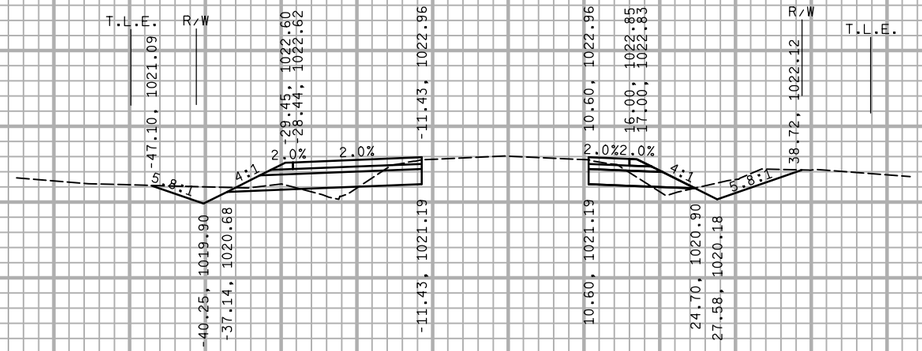
10 FT

9

9

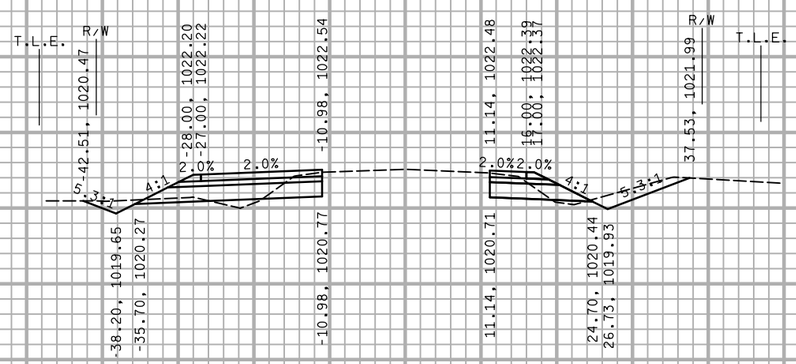
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1454	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



99+00 SL

99+00 SL



98+50 SL

98+50 SL

5 FT

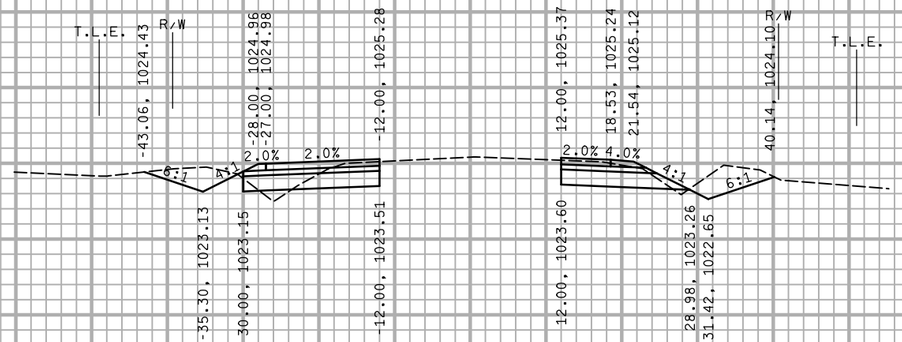
10 FT

9

9

PROJECT NO:1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1455	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



1030

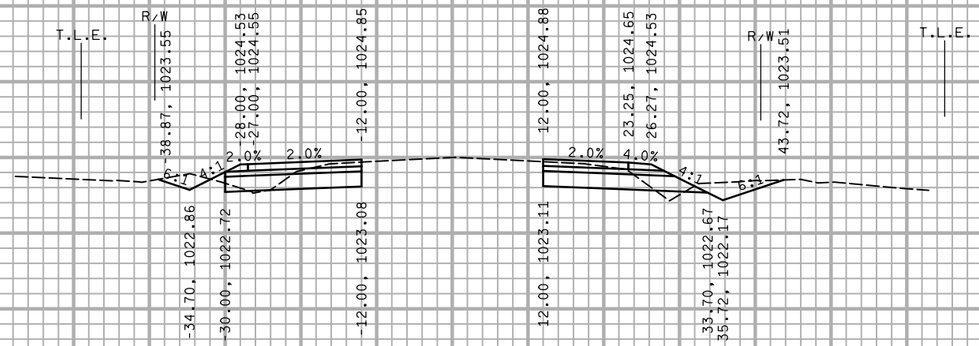
1020

101+50 SL

101+50 SL

1030

1020



1030

1020

101+00 SL

101+00 SL

1030

1020

5 FT

10 FT

9

9

PROJECT NO: 1206-07-77 | HWY: USH 18 | COUNTY: DANE | CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE) | SHEET 1456 | E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

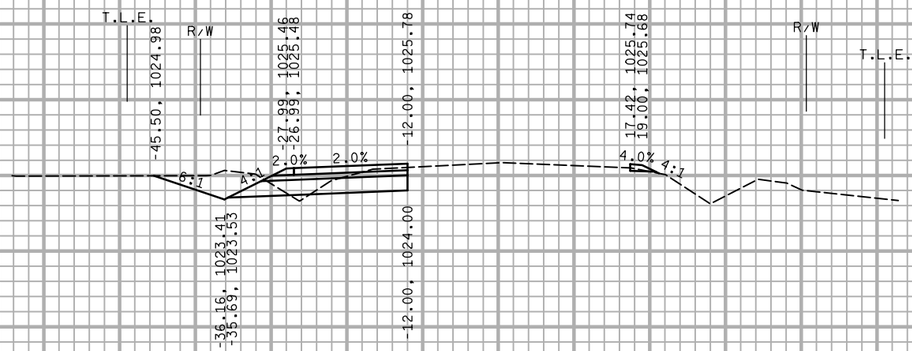
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

1030

1020

102+50 SL

102+50 SL



1030

1020

102+00 SL

102+00 SL

5 FT

10 FT

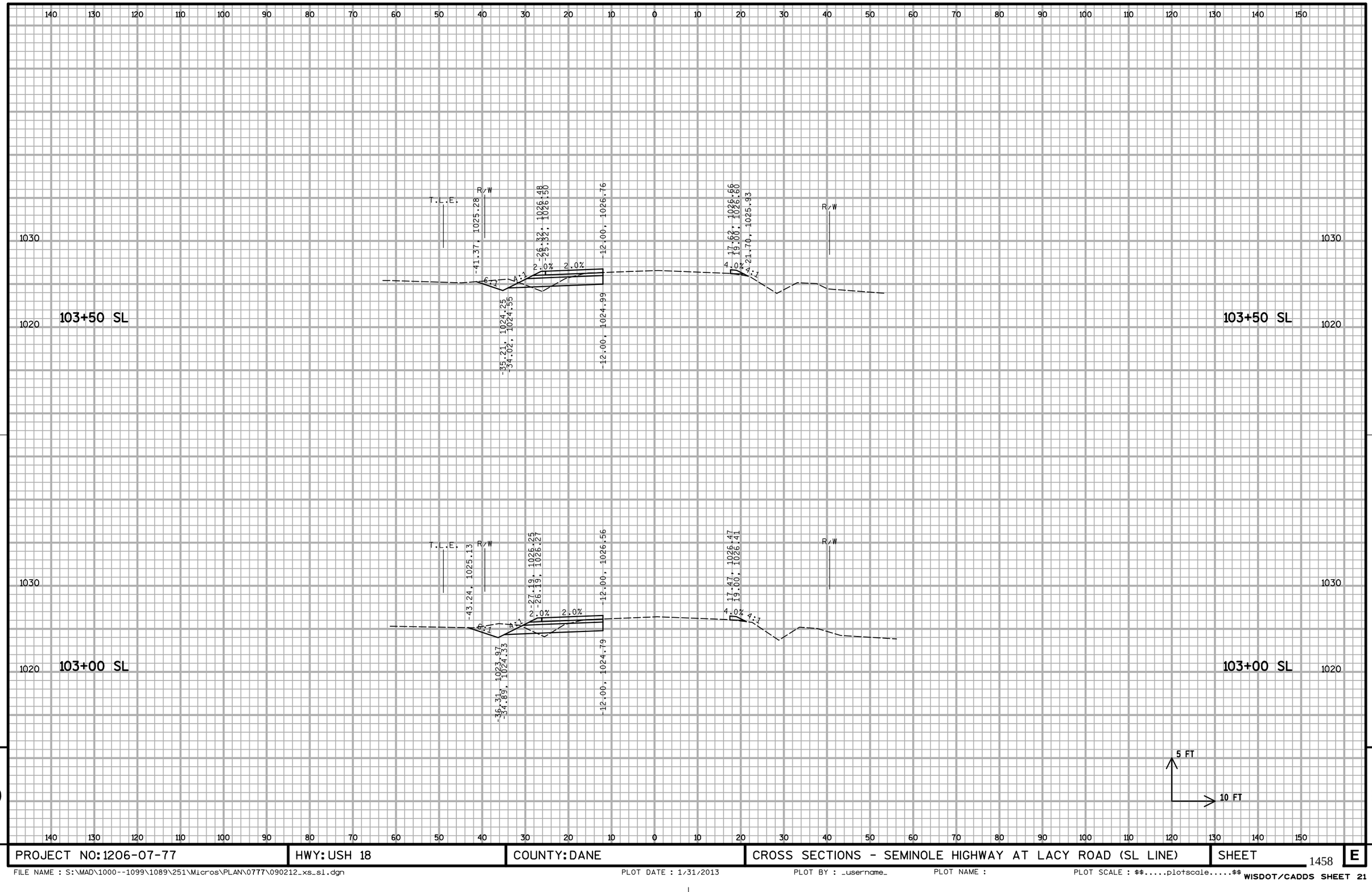
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9

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

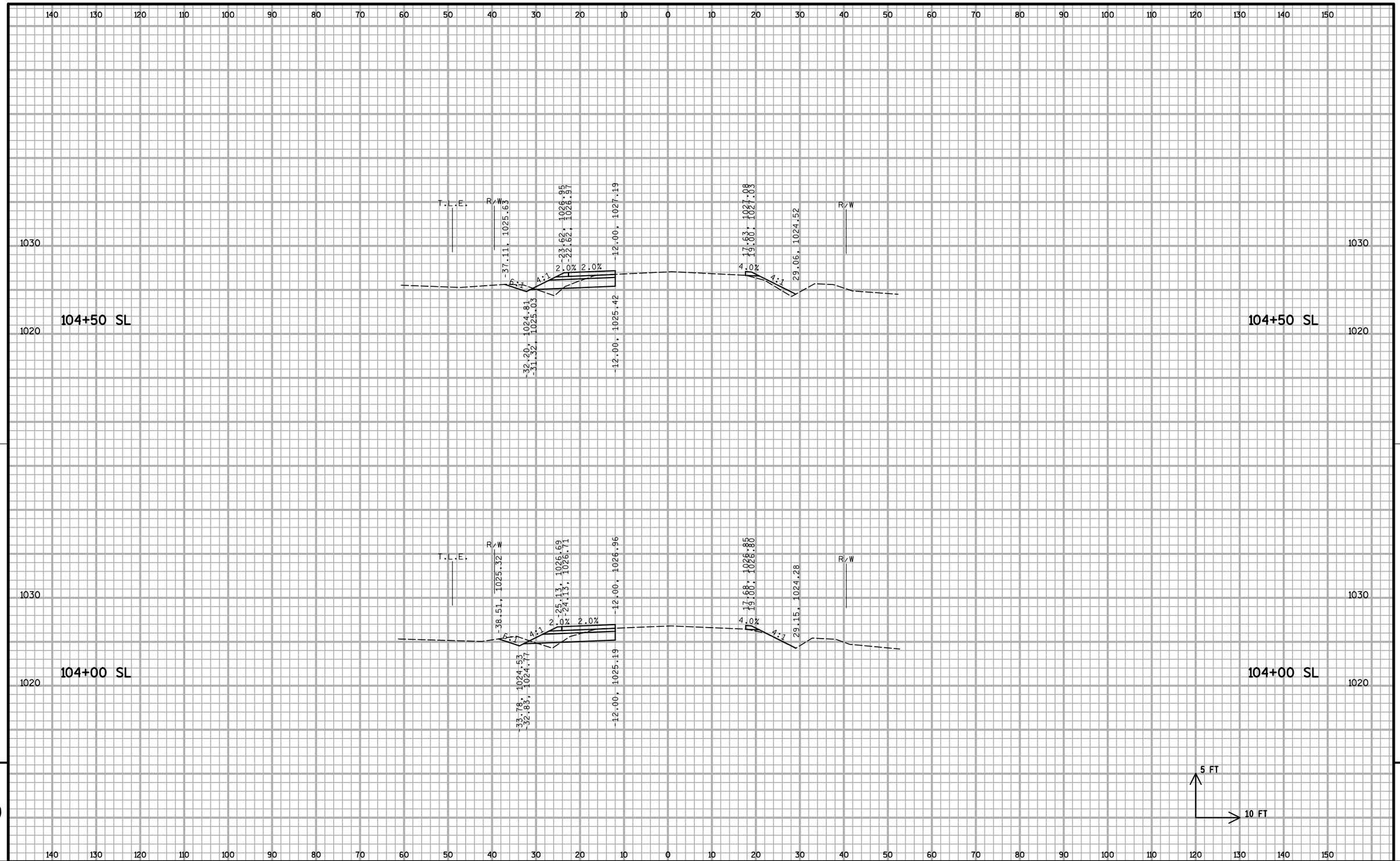
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1457	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



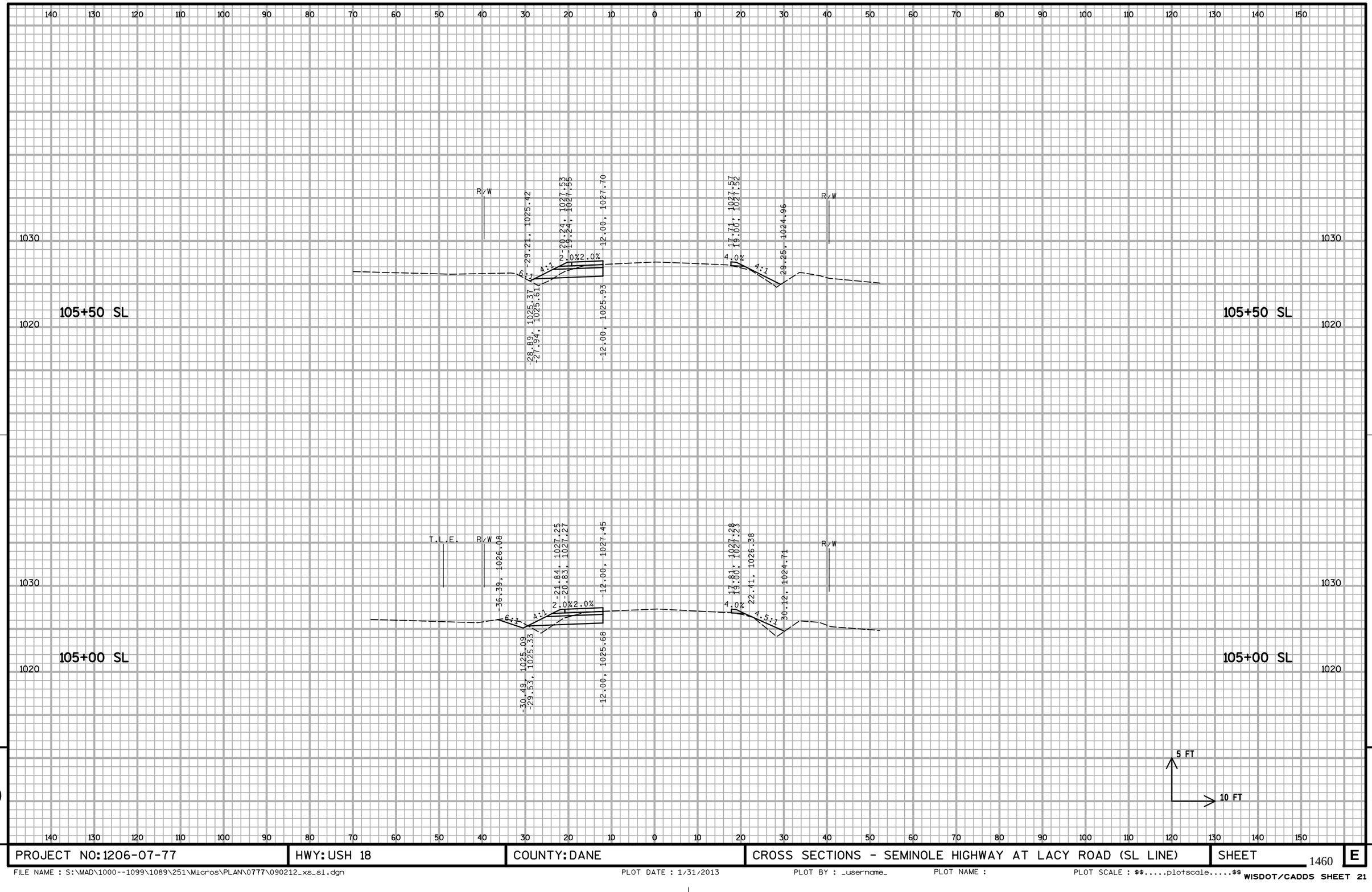
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1458	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1459	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

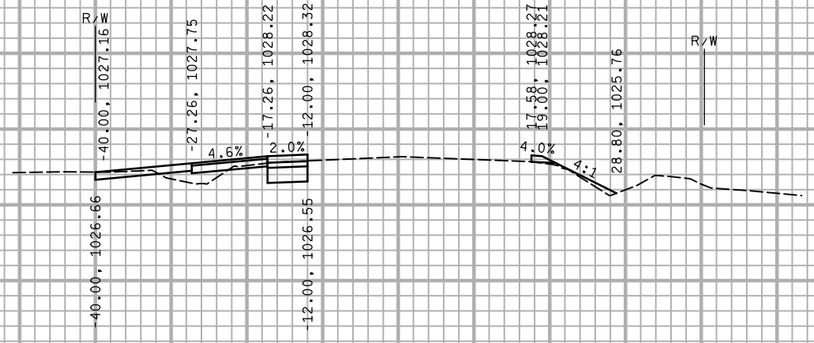


9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1460	E

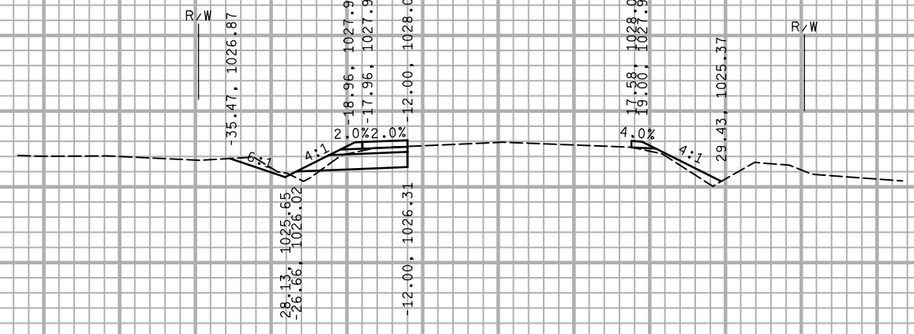
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



106+35 SL

CONSTRUCT F.E. LT
1 - 12" X 32' CPCS REQ'D
2 - 12" AECPS REQ'D

106+35 SL
1030
1020



106+00 SL

106+00 SL
1030
1020

5 FT
10 FT

9

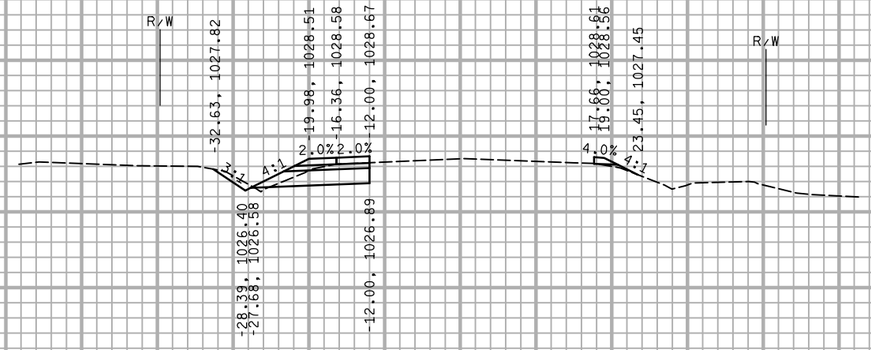
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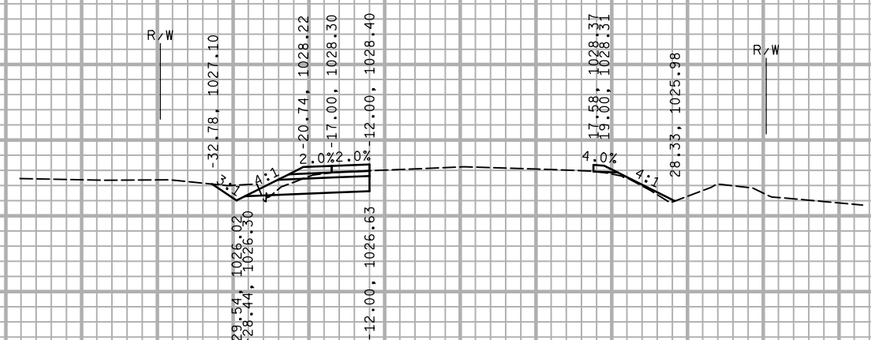
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1461	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA. 107+03 SL



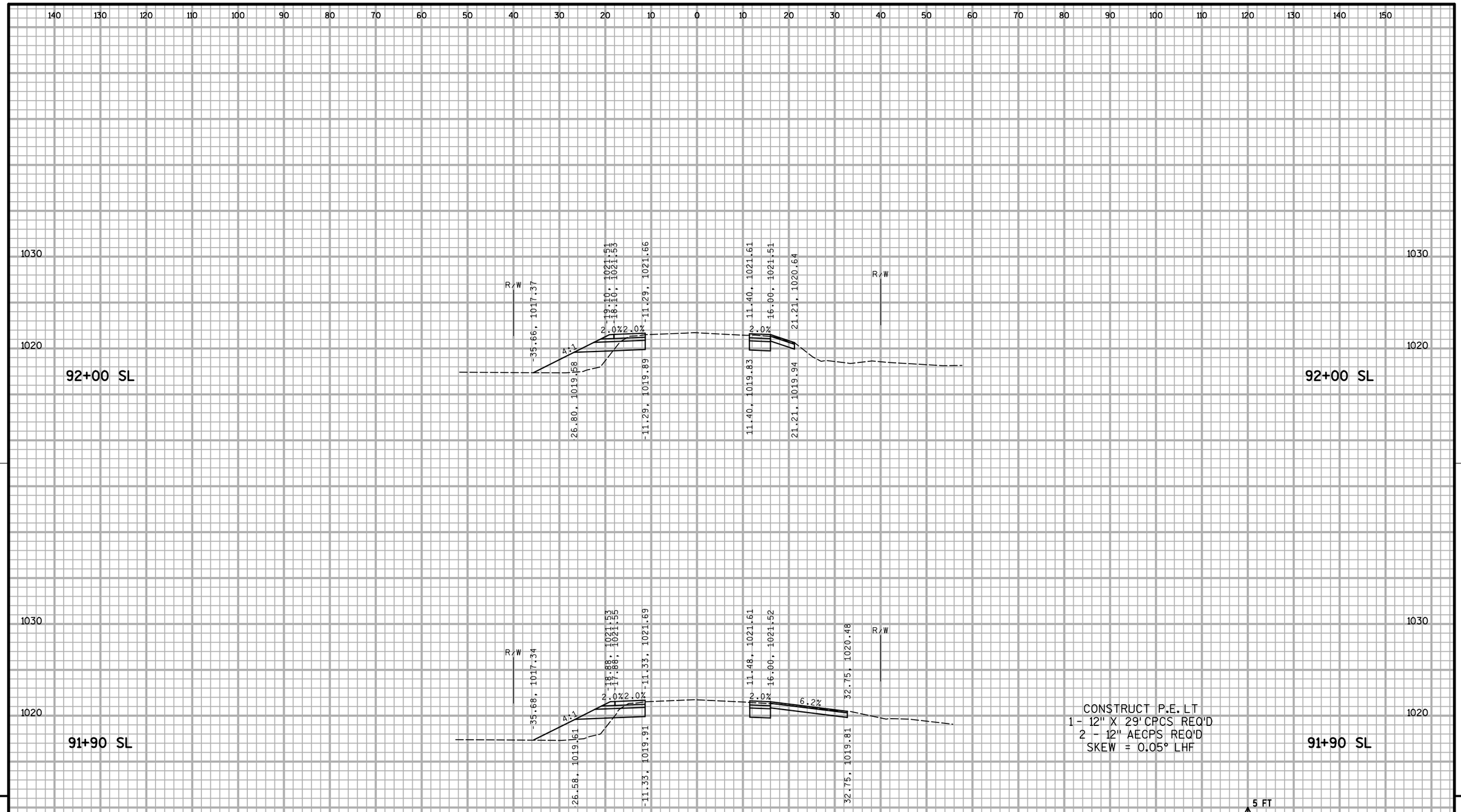


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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

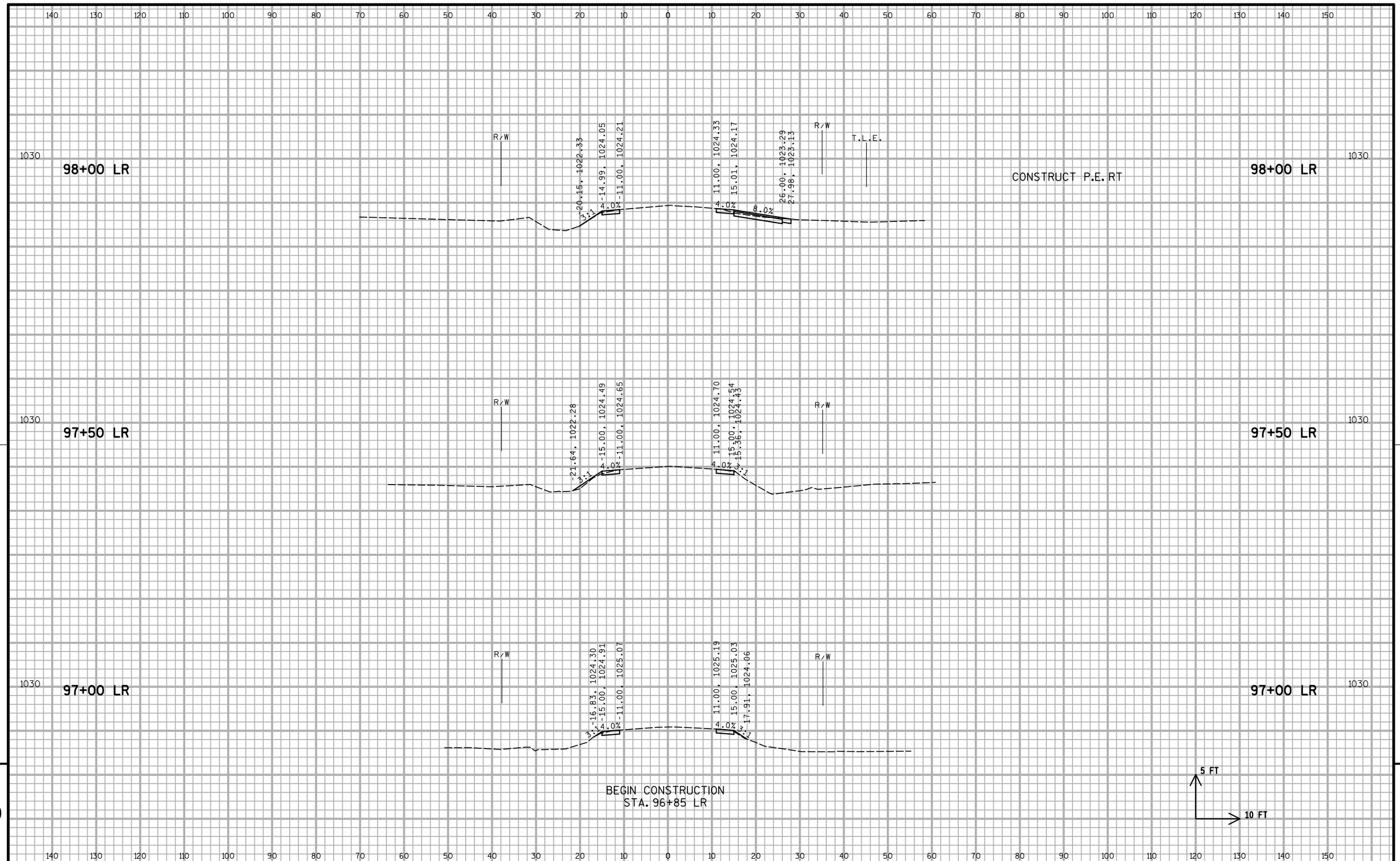


9

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HIGHWAY AT LACY ROAD (SL LINE)	SHEET 1463	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090212_xs_sl.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

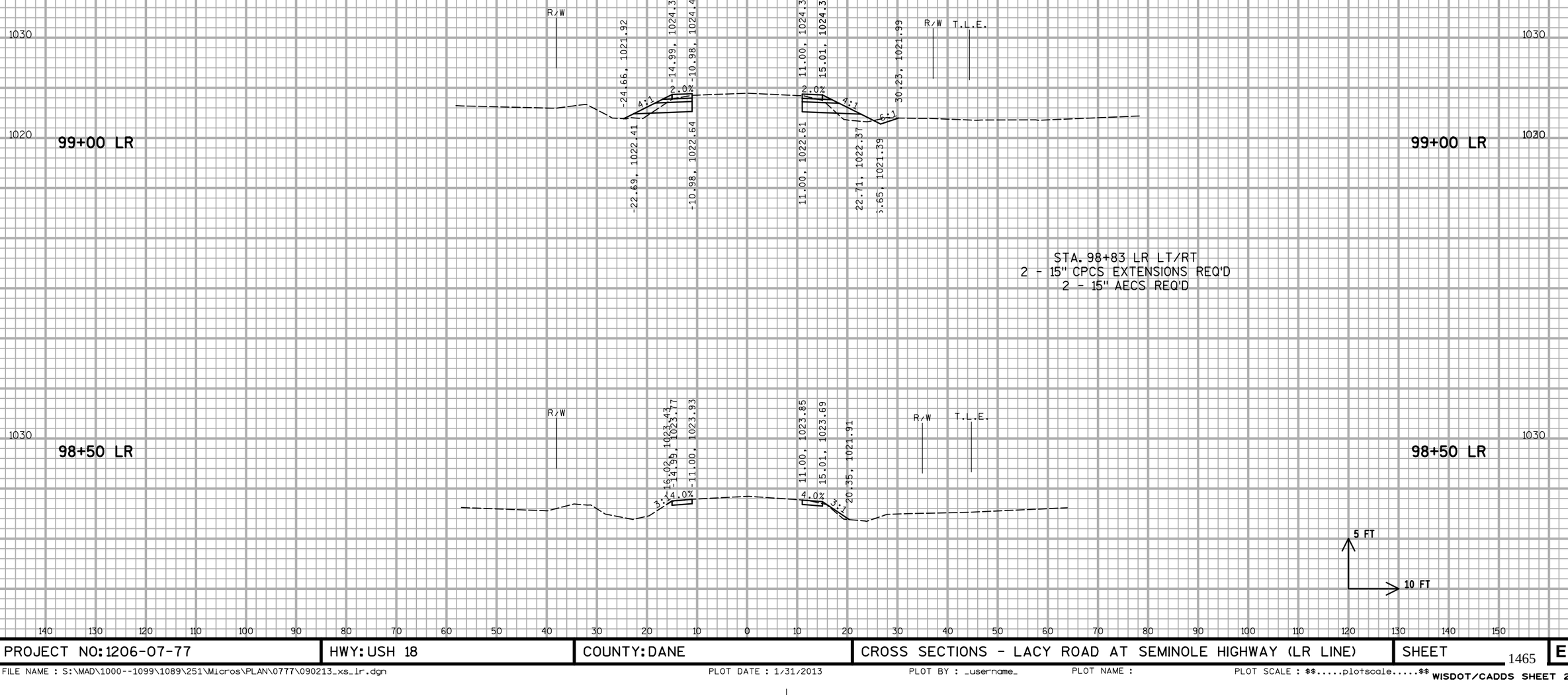


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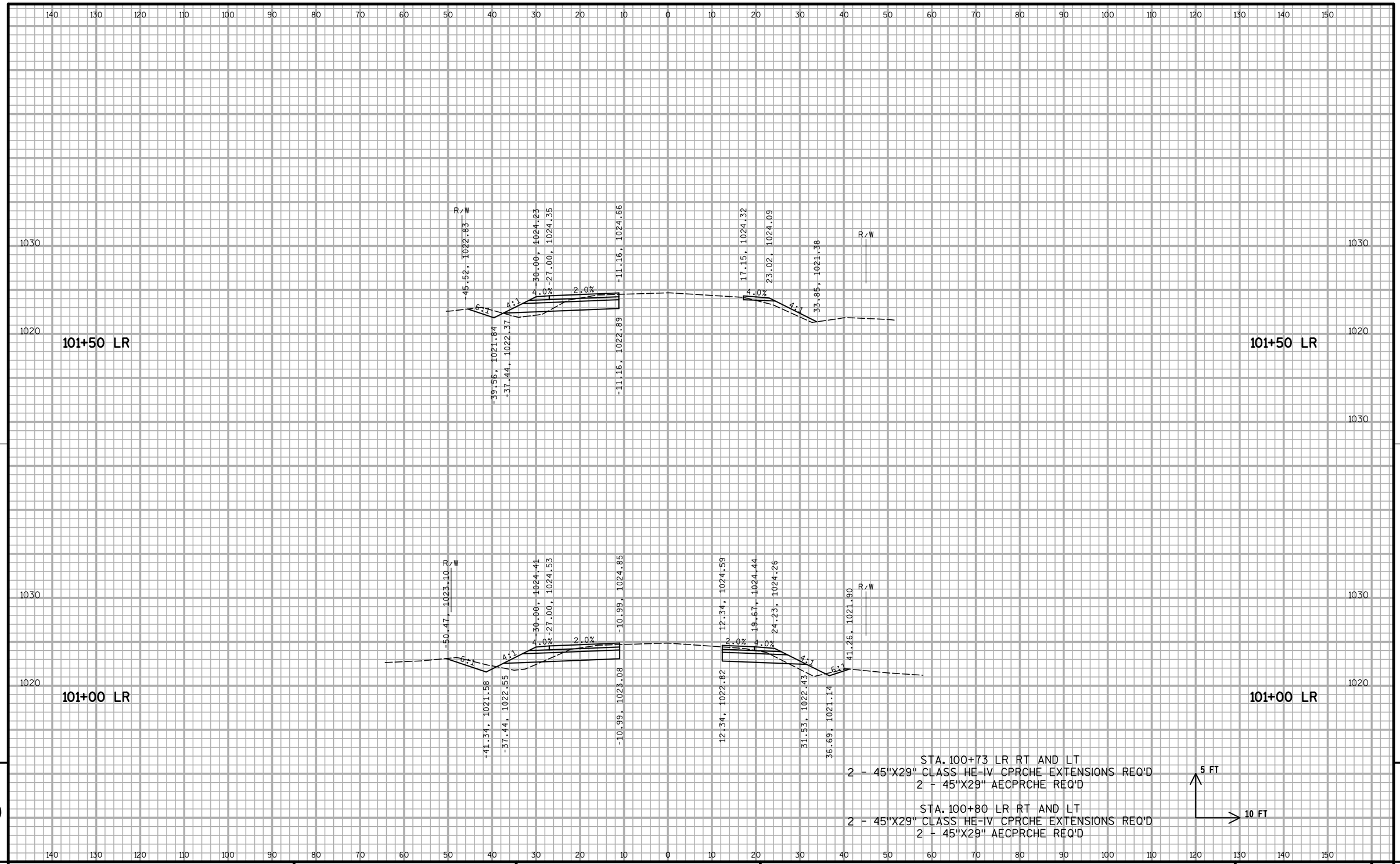
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - LACY ROAD AT SEMINOLE HIGHWAY (LR LINE)	SHEET 1464	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090213_xs_lr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - LACY ROAD AT SEMINOLE HIGHWAY (LR LINE)	SHEET 1465	E

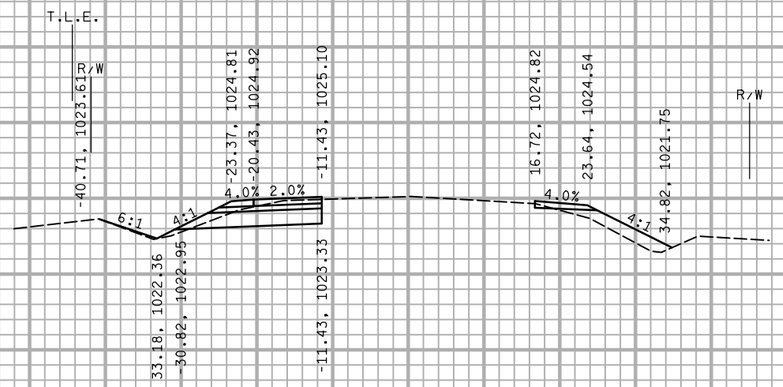
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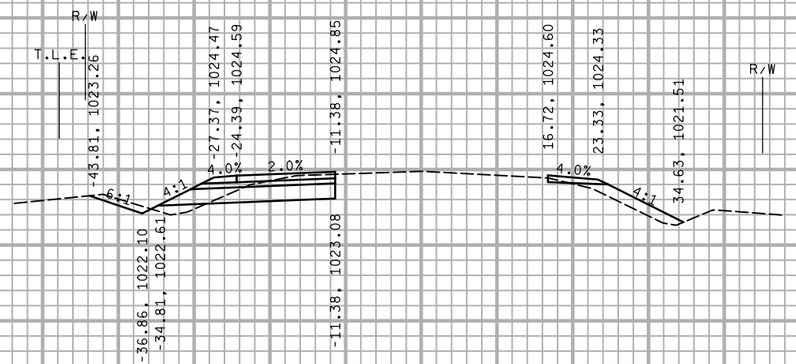
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - LACY ROAD AT SEMINOLE HIGHWAY (LR LINE)	SHEET 1466	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090213_xs_lr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



102+50 LR

102+50 LR



102+00 LR

102+00 LR

5 FT

10 FT

9

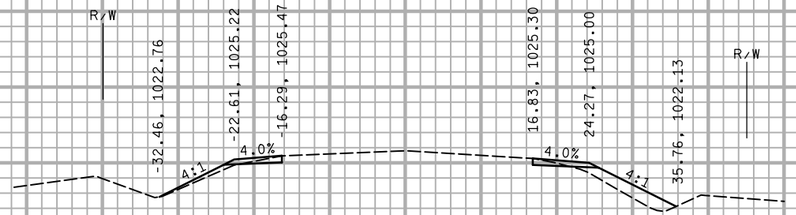
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - LACY ROAD AT SEMINOLE HIGHWAY (LR LINE)	SHEET 1467	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090213_xs_lr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA. 103+52 LR



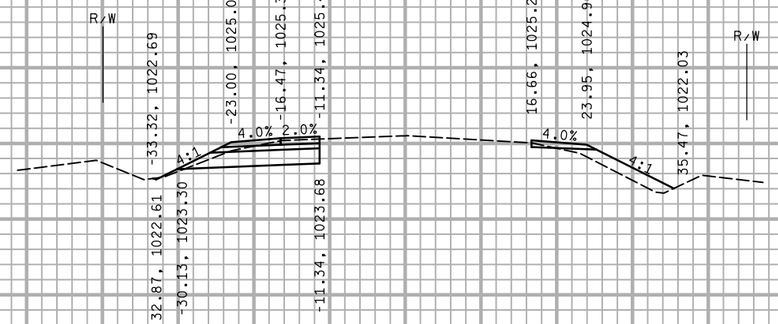
1030

103+50 LR

1030

103+50 LR

1030



1030

1020 **103+00 LR**

103+00 LR 1020

5 FT

10 FT

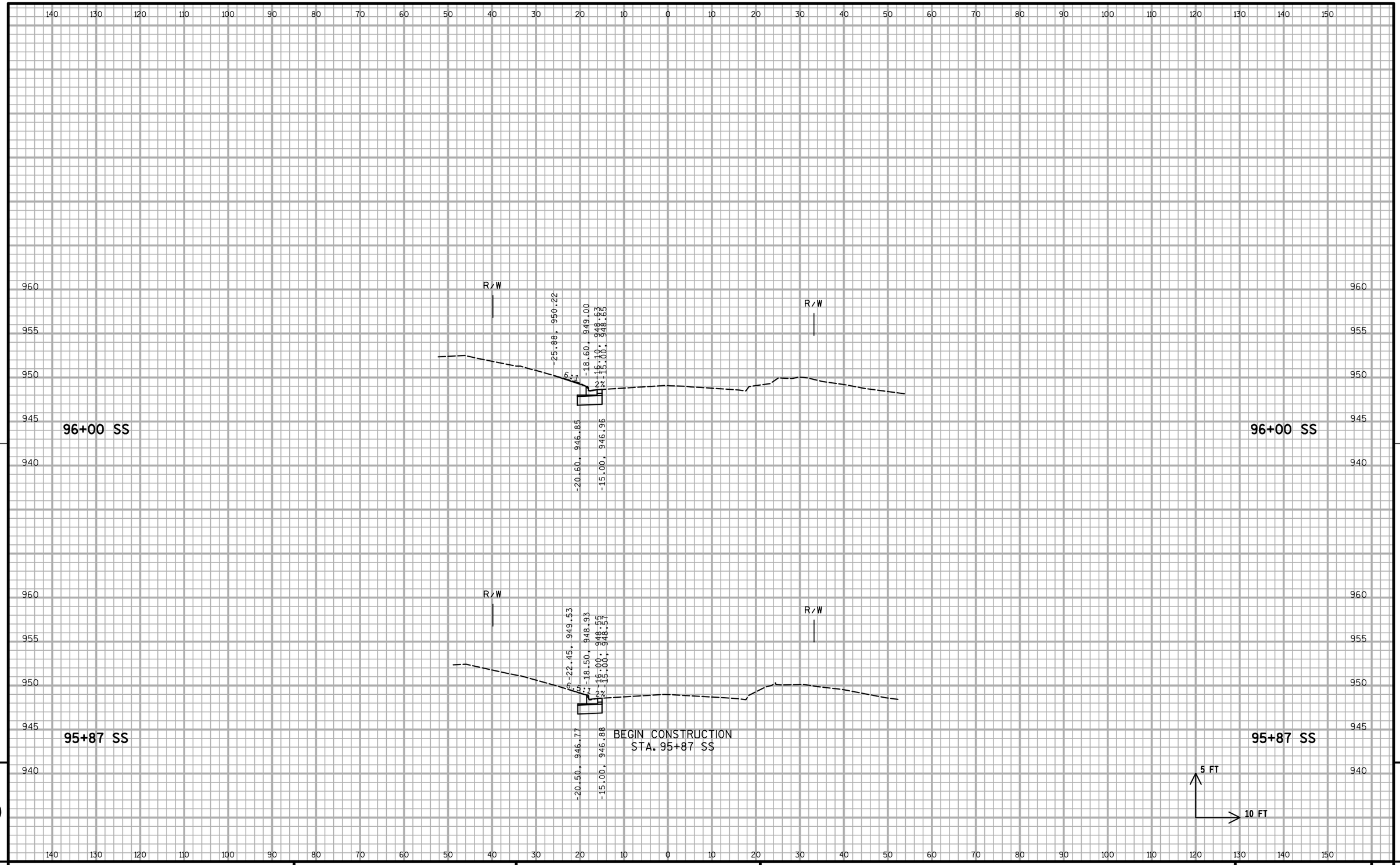
9

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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - LACY ROAD AT SEMINOLE HIGHWAY (LR LINE)	SHEET 1468	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090213_xs_lr.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

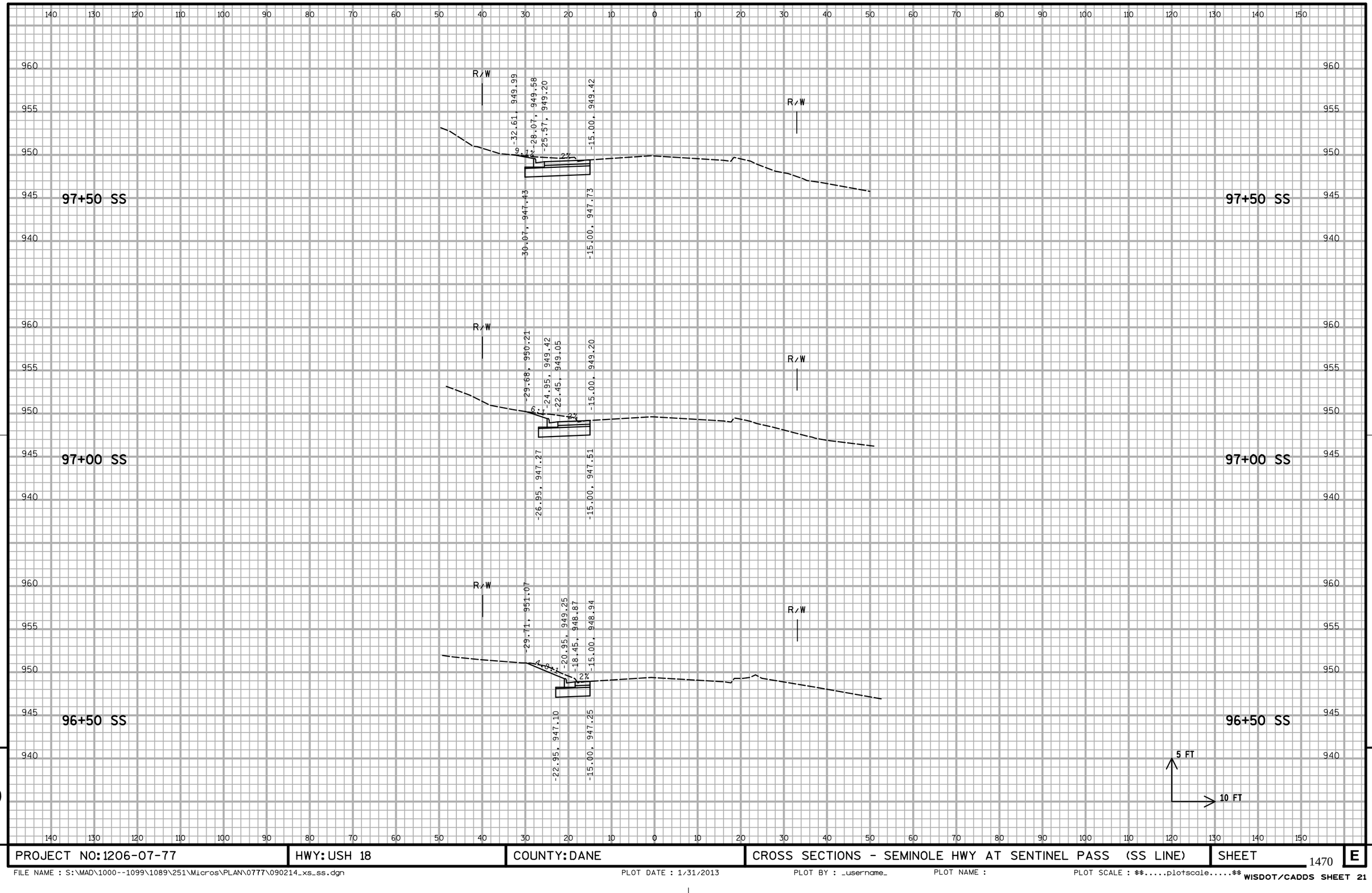


9

9

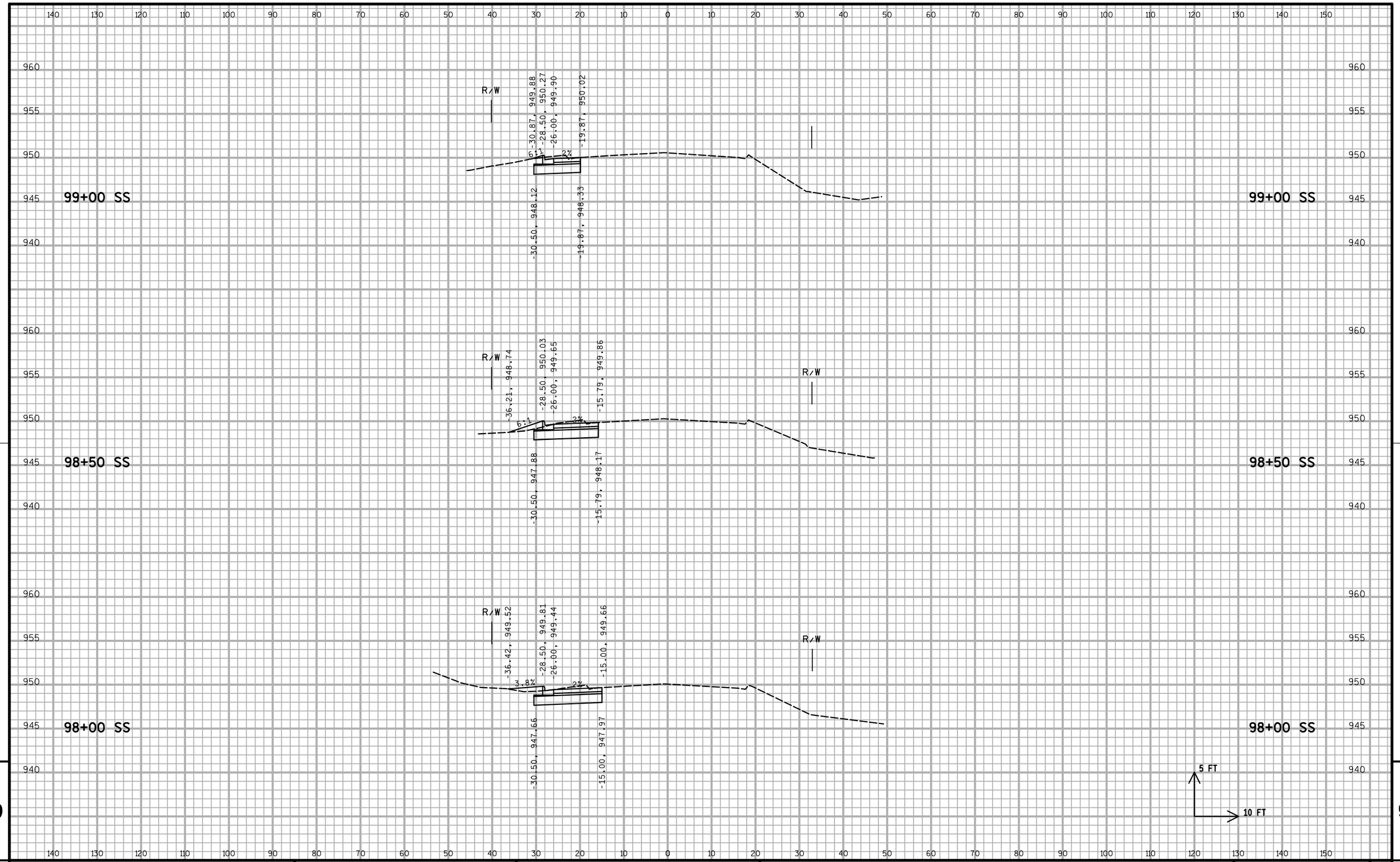
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HWY AT SENTINEL PASS (SS LINE)	SHEET 1469	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090214_xs_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



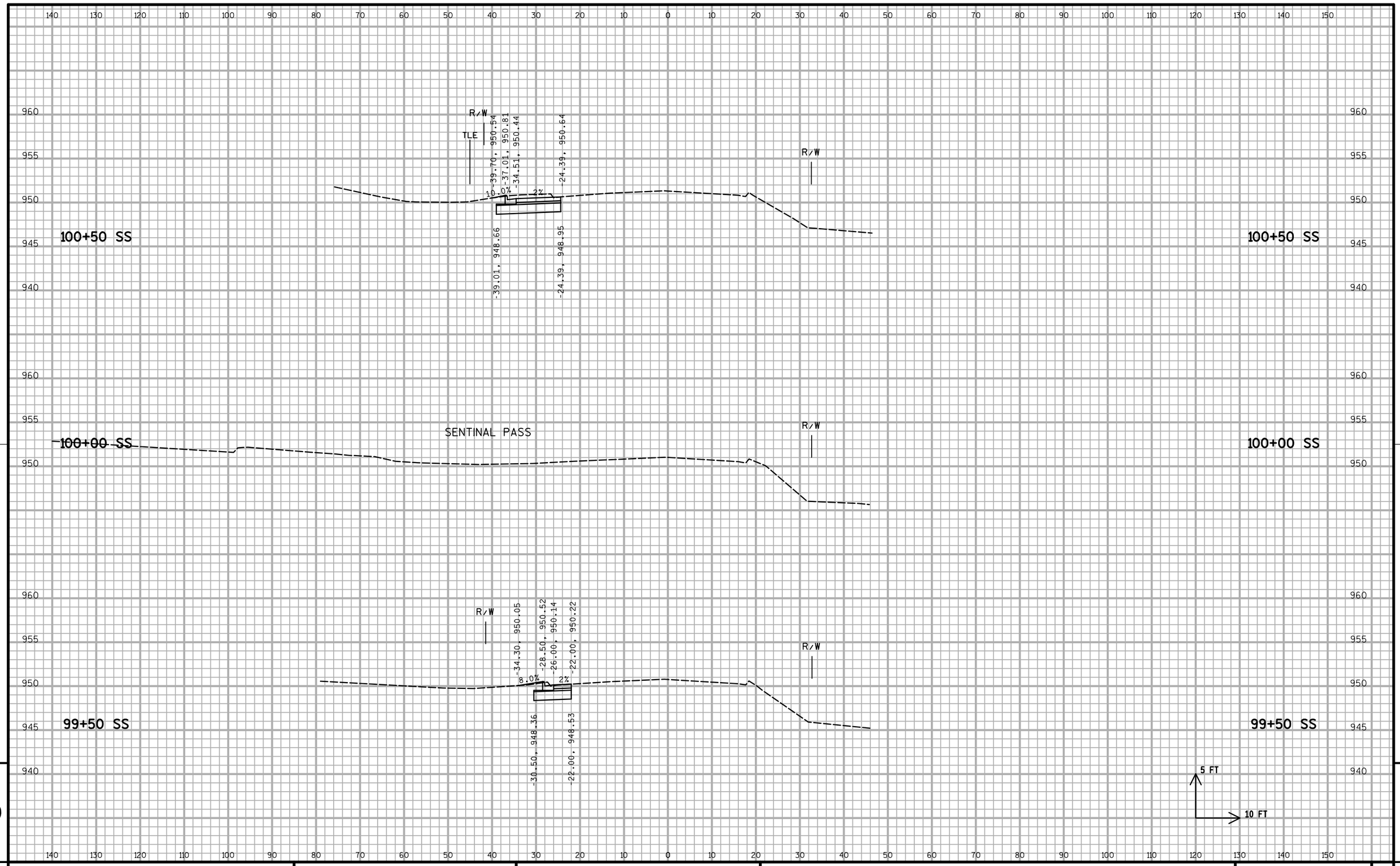
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HWY AT SENTINEL PASS (SS LINE)	SHEET 1470	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090214_xs_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



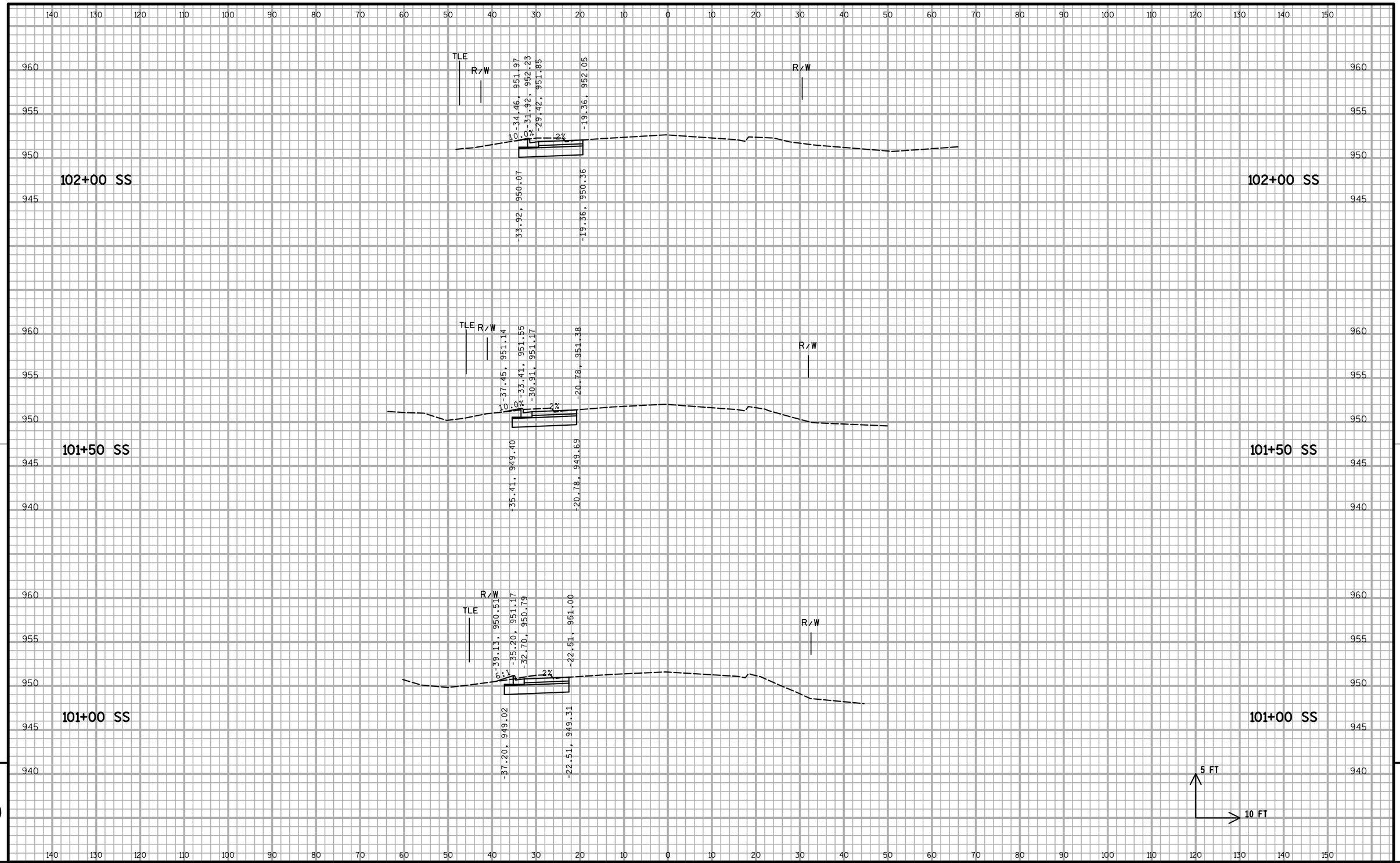
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HWY AT SENTINEL PASS (SS LINE)	SHEET 1471	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090214_xs_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HWY AT SENTINEL PASS (SS LINE)	SHEET 1472	E

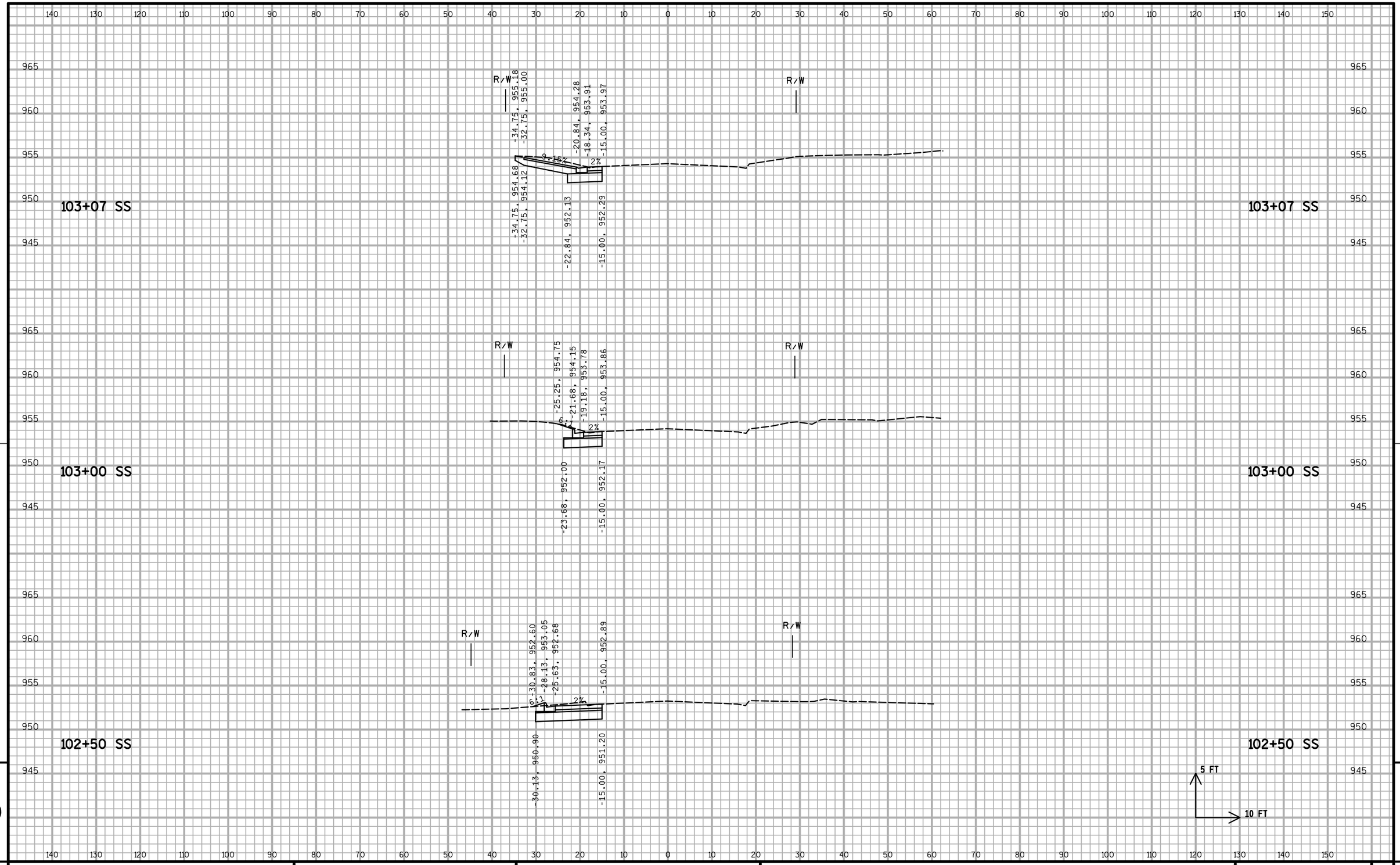
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090214_xs_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9 9

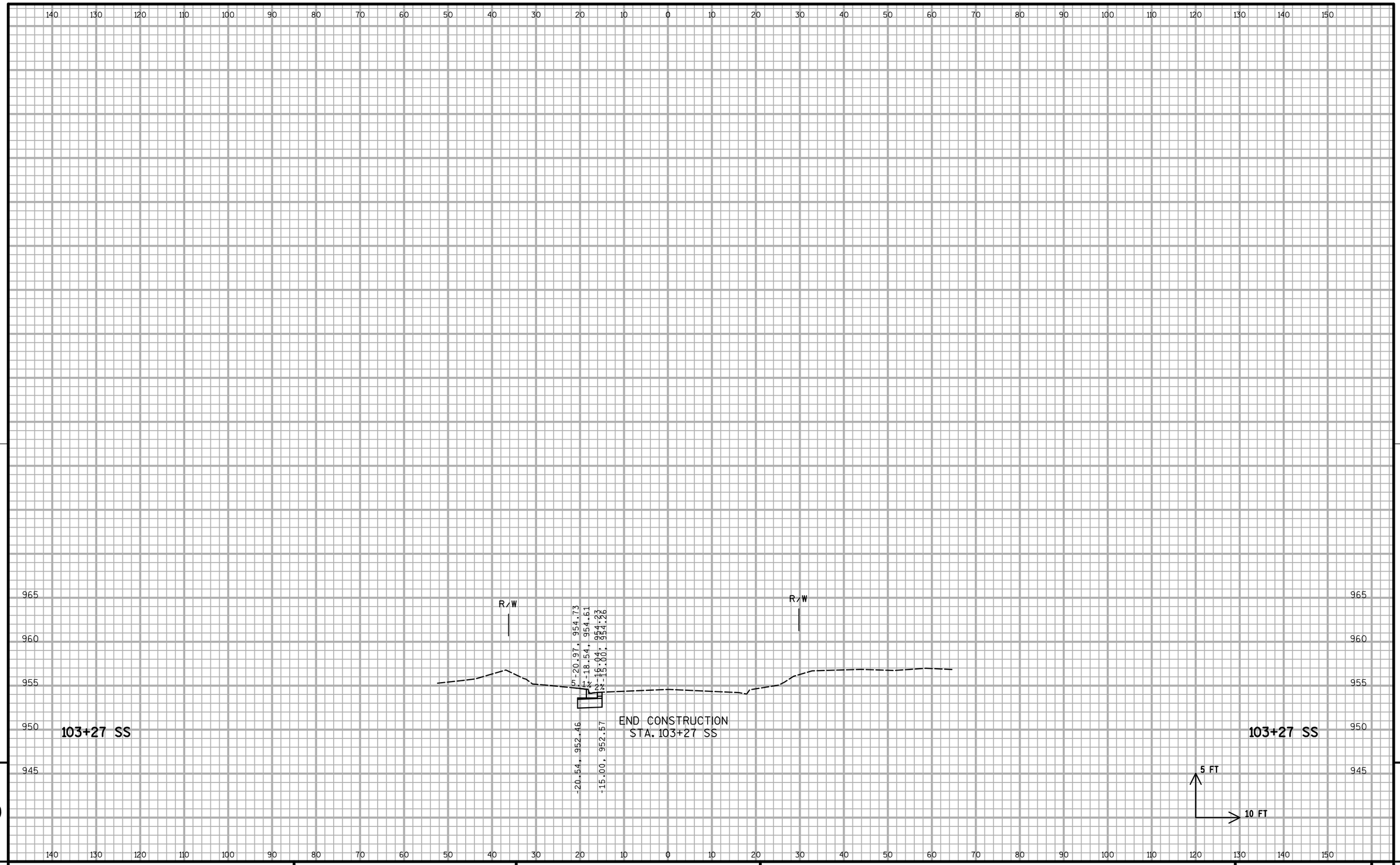
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HWY AT SENTINEL PASS (SS LINE)	SHEET 1473	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090214_xs_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HWY AT SENTINEL PASS (SS LINE)	SHEET	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090214_xs_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



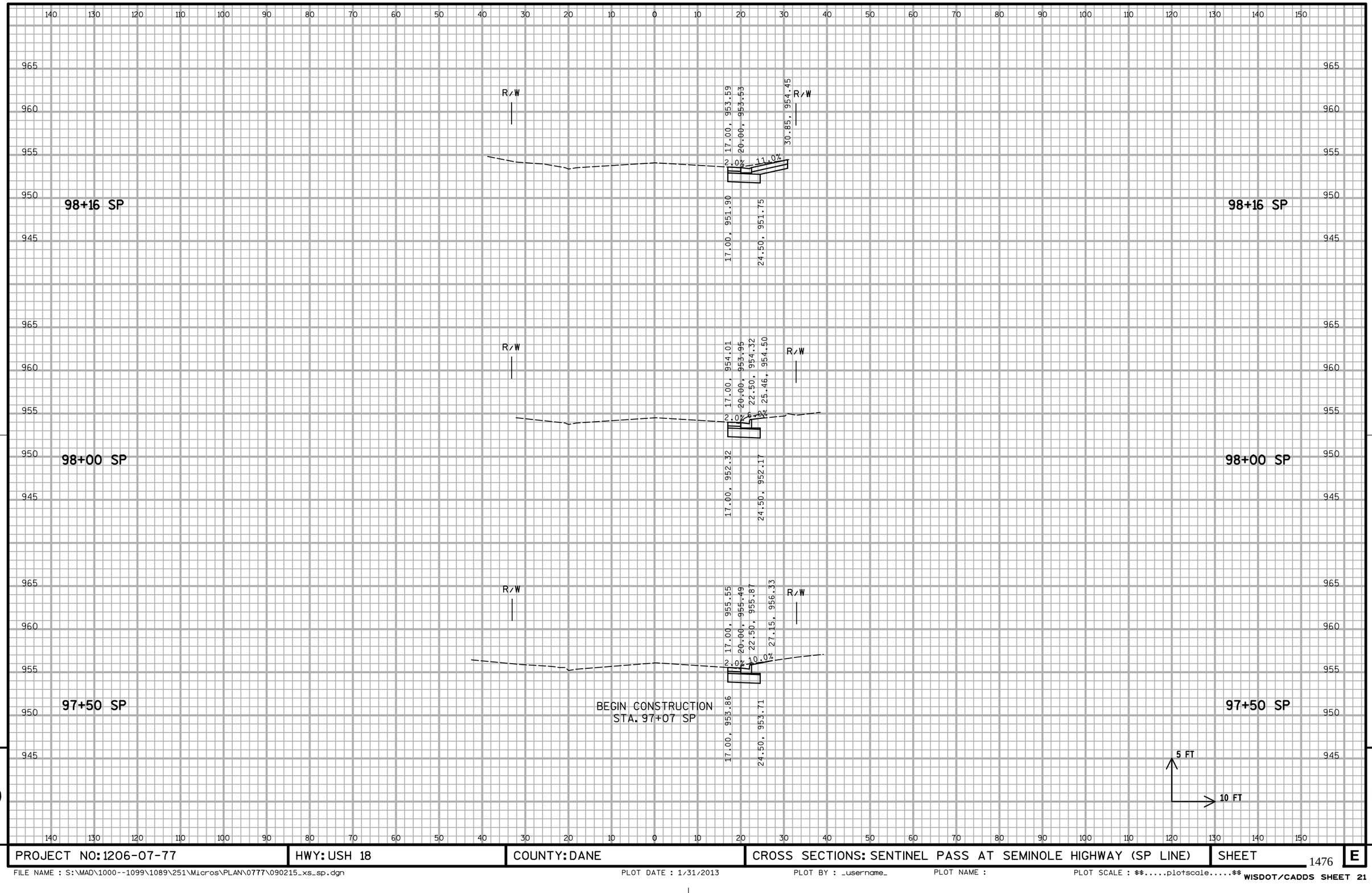
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9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SEMINOLE HWY AT SENTINEL PASS (SS LINE)	SHEET 1475	E

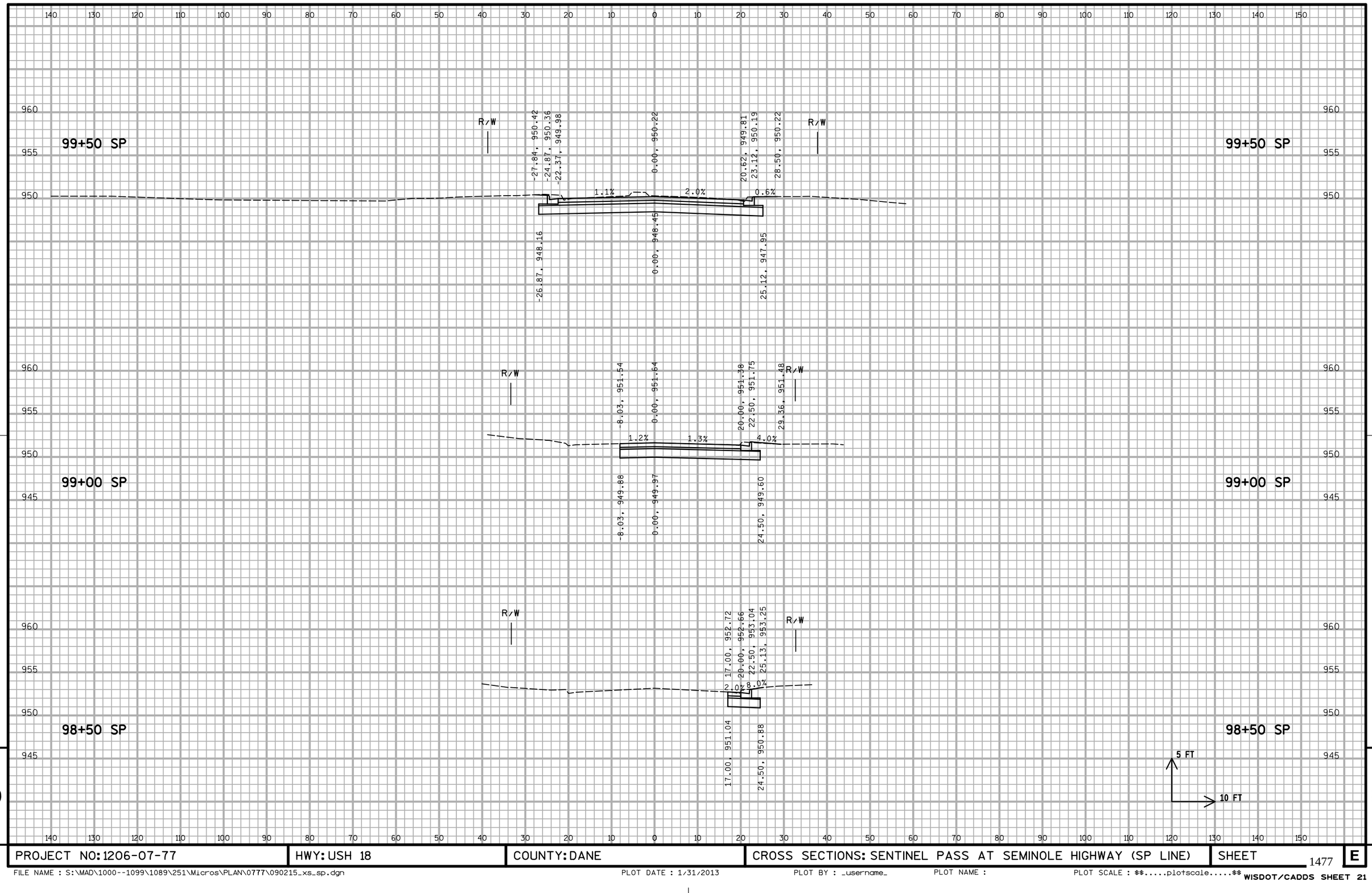
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090214_xs_ss.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



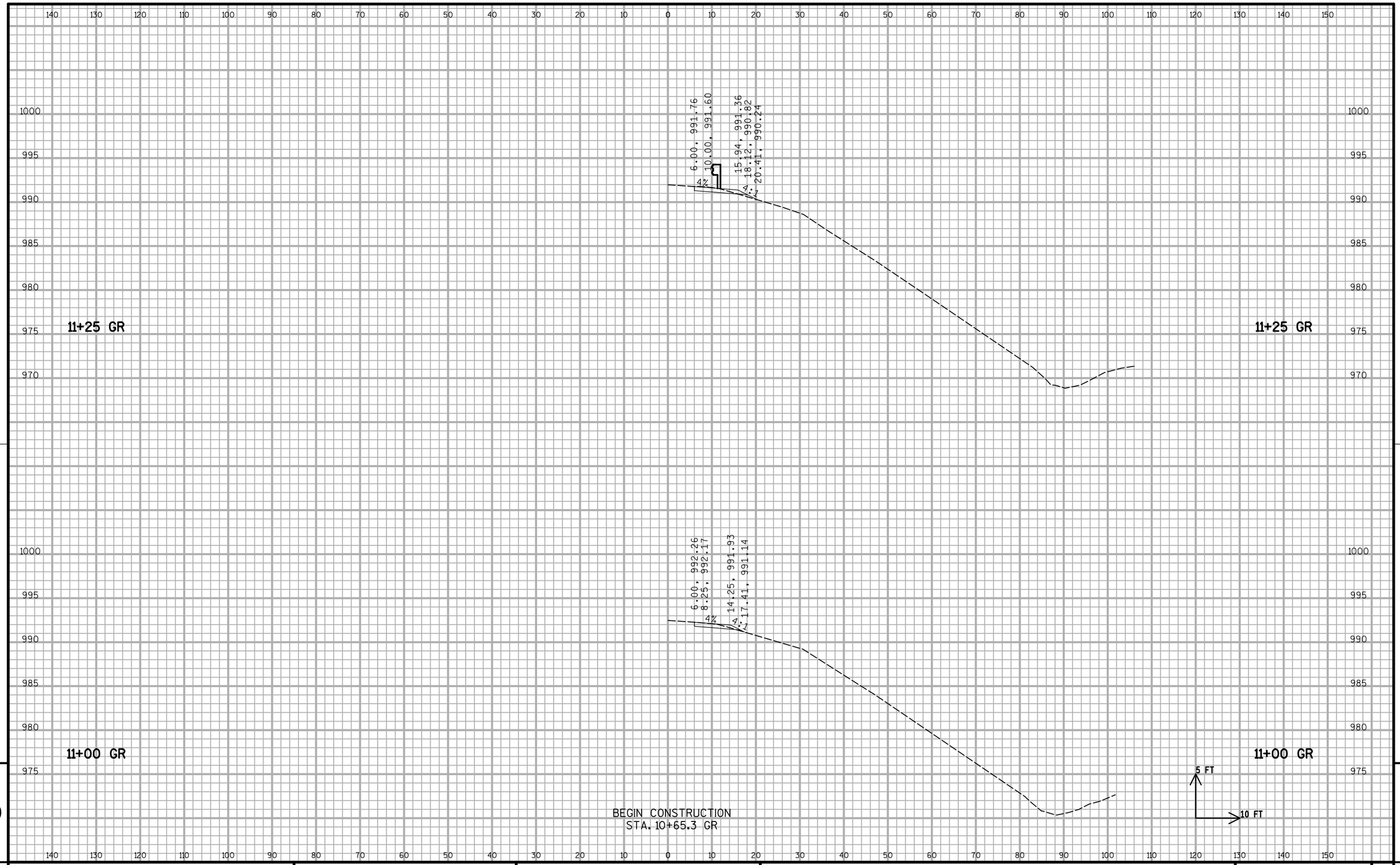
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS: SENTINEL PASS AT SEMINOLE HIGHWAY (SP LINE)	SHEET 1476	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090215_xs_sp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS: SENTINEL PASS AT SEMINOLE HIGHWAY (SP LINE)	SHEET 1477	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090215_xs_sp.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



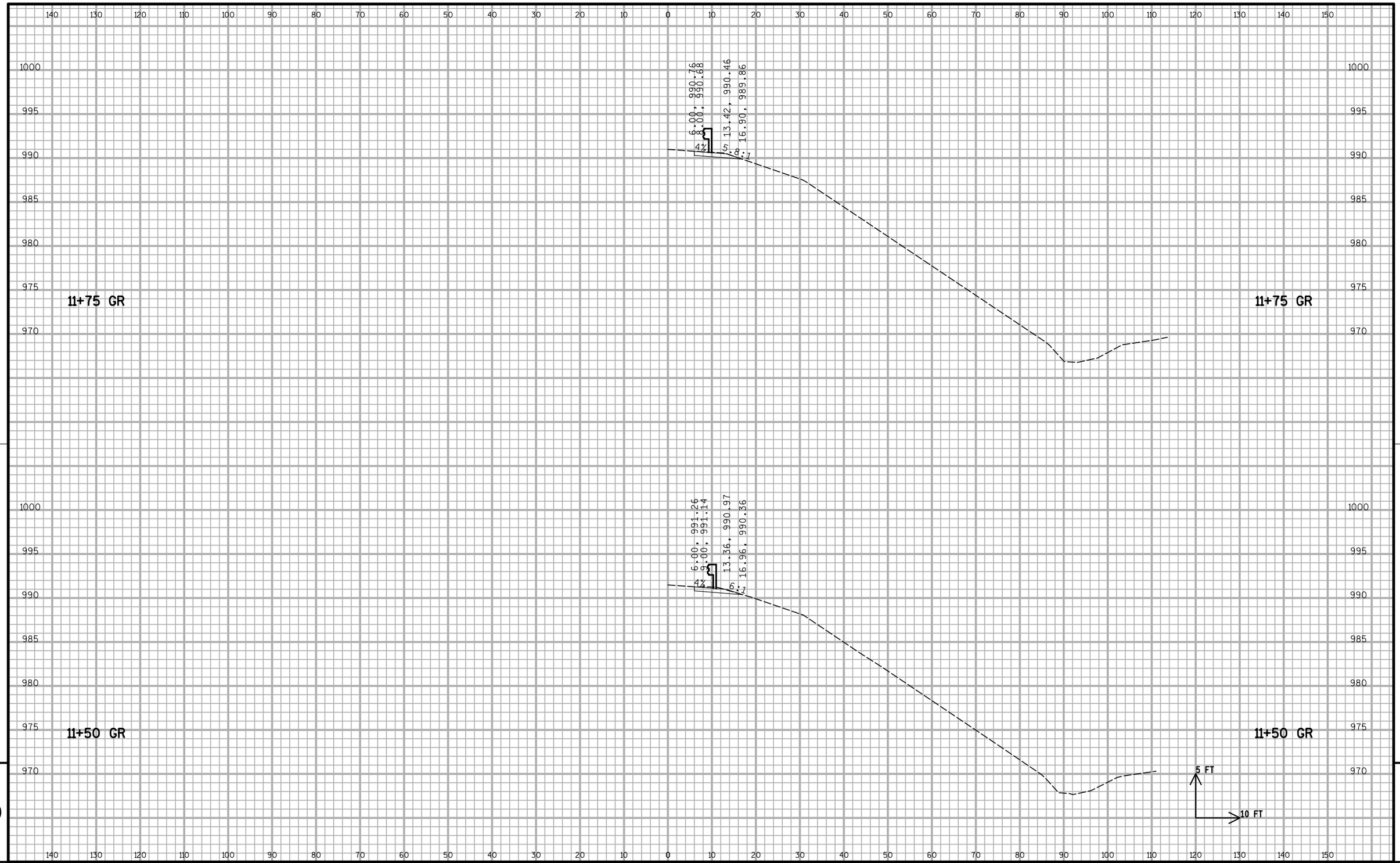
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9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - GRANDVIEW ROAD PCMS (PCMS-01-1040) (GR LINE)	SHEET 1478	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090221_xs_Grandview PCMS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



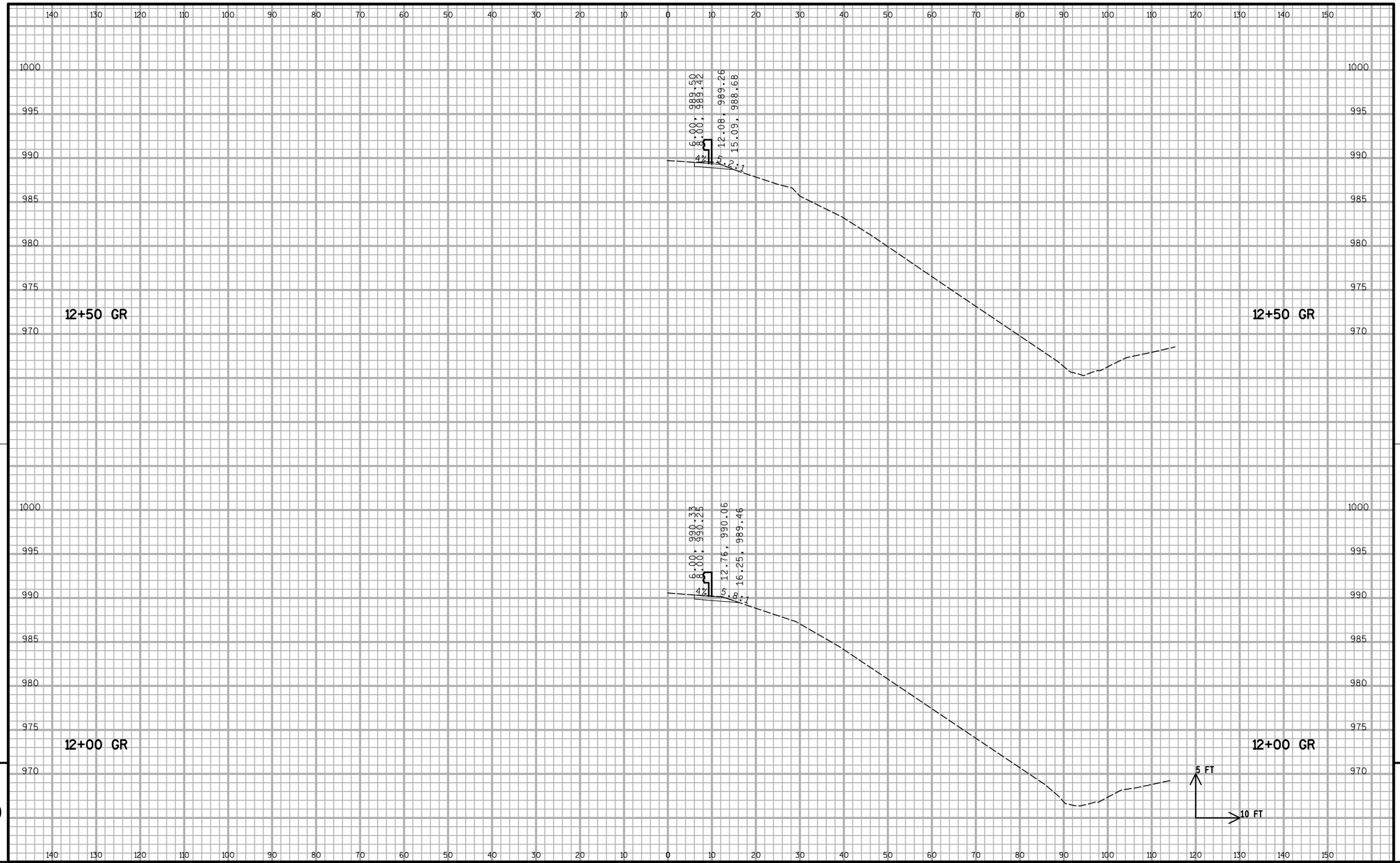
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PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - GRANDVIEW ROAD PCMS (PCMS-01-1040) (GR LINE)	SHEET 1479	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090221_xs_Grandview PCMS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - GRANDVIEW ROAD PCMS (PCMS-01-1040) (GR LINE)	SHEET 1480	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090221_xs_Grandview PCMS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



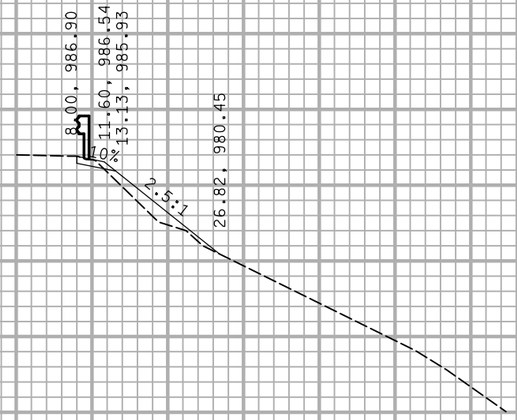
9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - GRANDVIEW ROAD PCMS (PCMS-01-1040) (GR LINE)	SHEET 1481	E

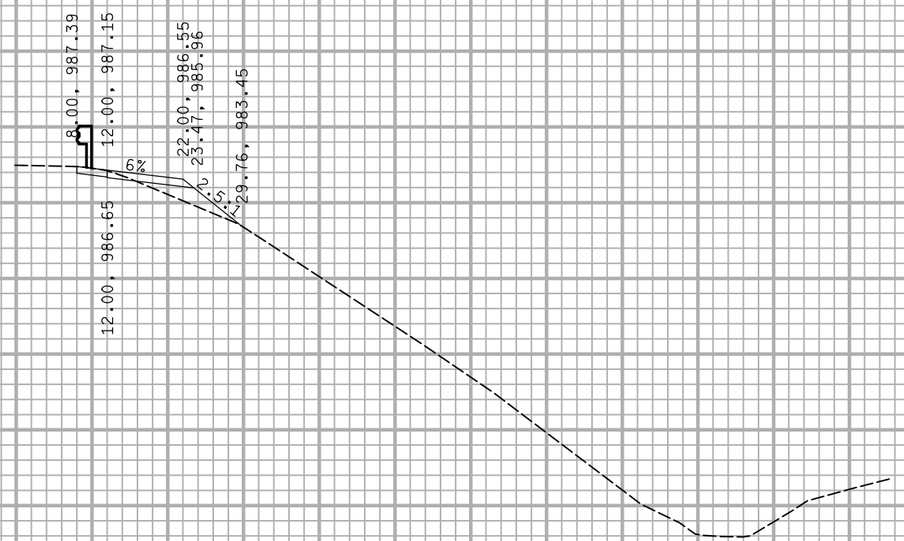
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090221_xs_Grandview PCMS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA. 14+03.2 GR



14+00 GR

14+00 GR



13+75 GR

13+75 GR

5 FT
10 FT

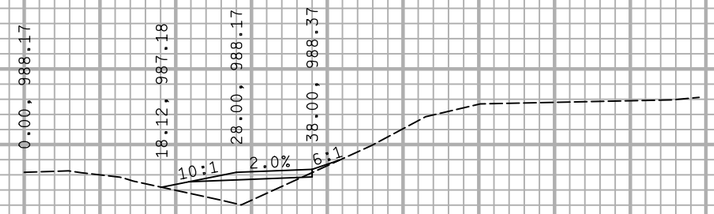
9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - GRANDVIEW ROAD PCMS (PCMS-01-1040) (GR LINE)	SHEET 1482	E

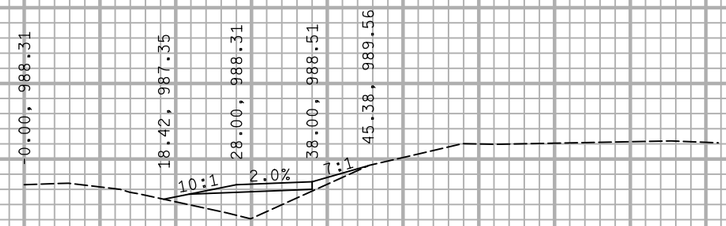
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090221_xs_Grandview PCMS.dgn
PLOT DATE : 1/31/2013
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA. 12+55.0 LD



12+30 LD

12+30 LD



12+10 LD

12+10 LD

5 FT
10 FT

BEGIN CONSTRUCTION
STA. 11+85.0 LD

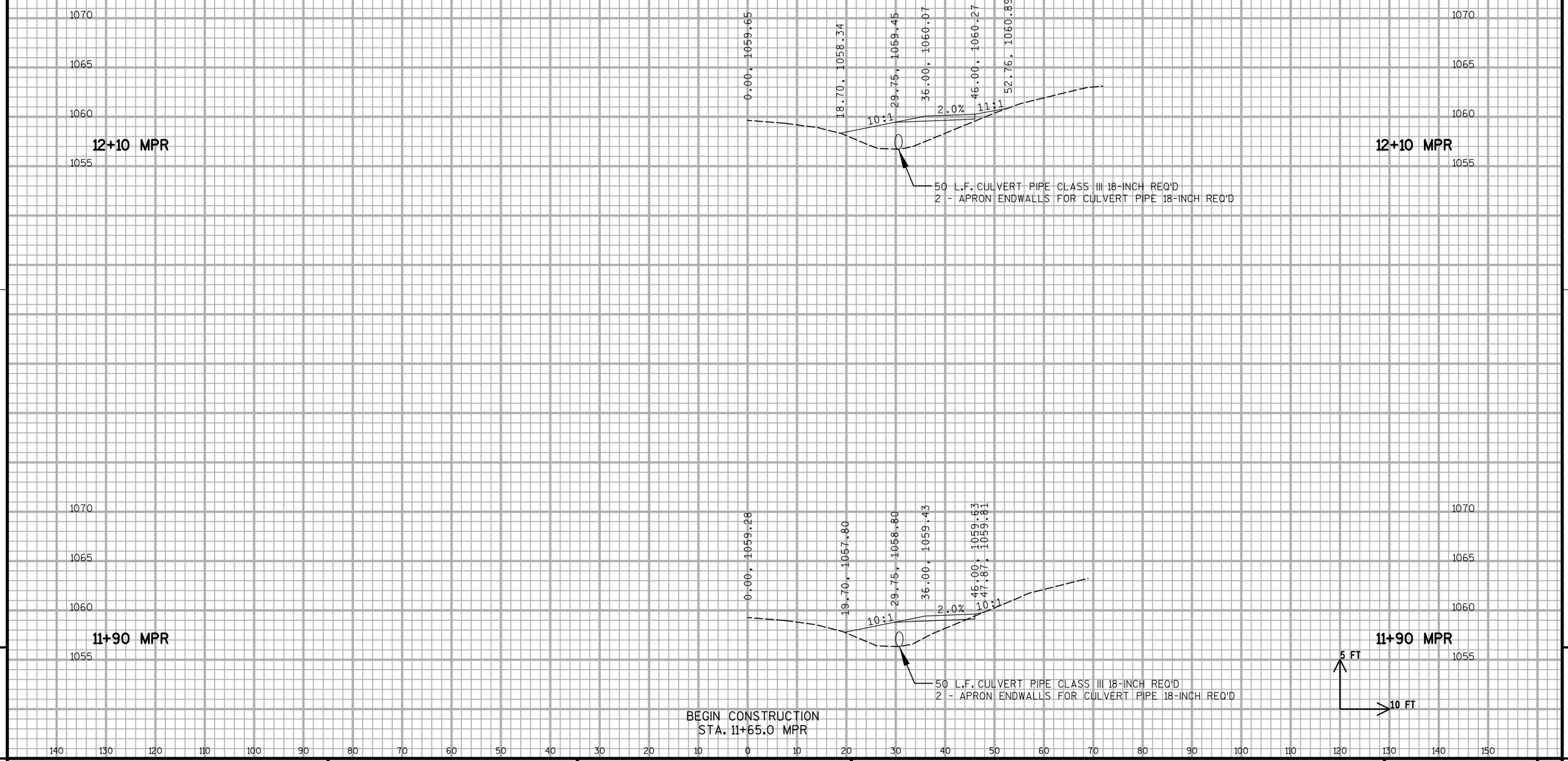
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9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - LOCUST DRIVE PCMS (PCMS-01-1039) (LD LINE)	SHEET 1483	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090222_xs_Locust PCMS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA. 12+35.0 MPR



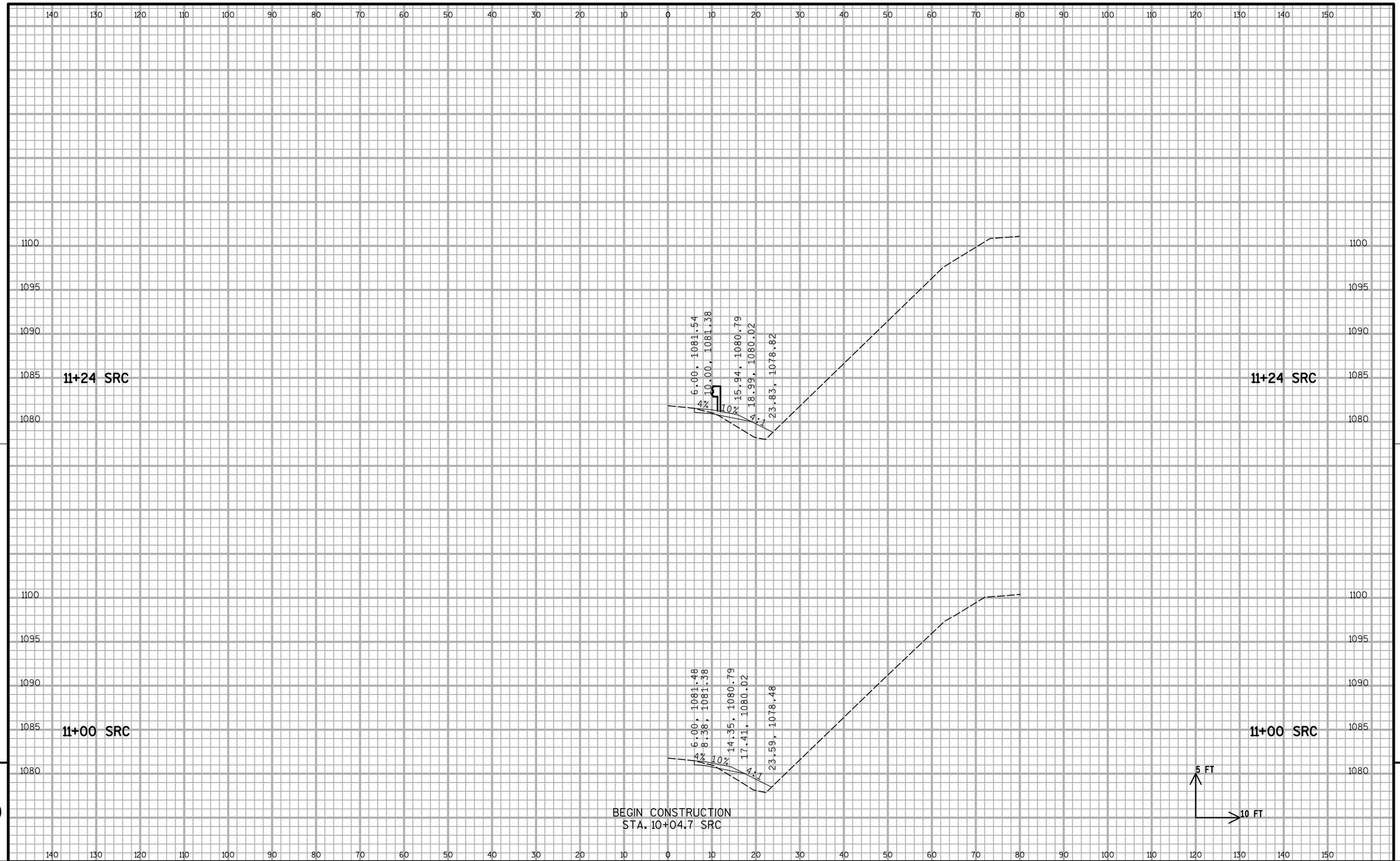
BEGIN CONSTRUCTION
STA. 11+65.0 MPR

9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MINERAL POINT PCMS (PCMS-01-1041) (MPR LINE)	SHEET 1484	E

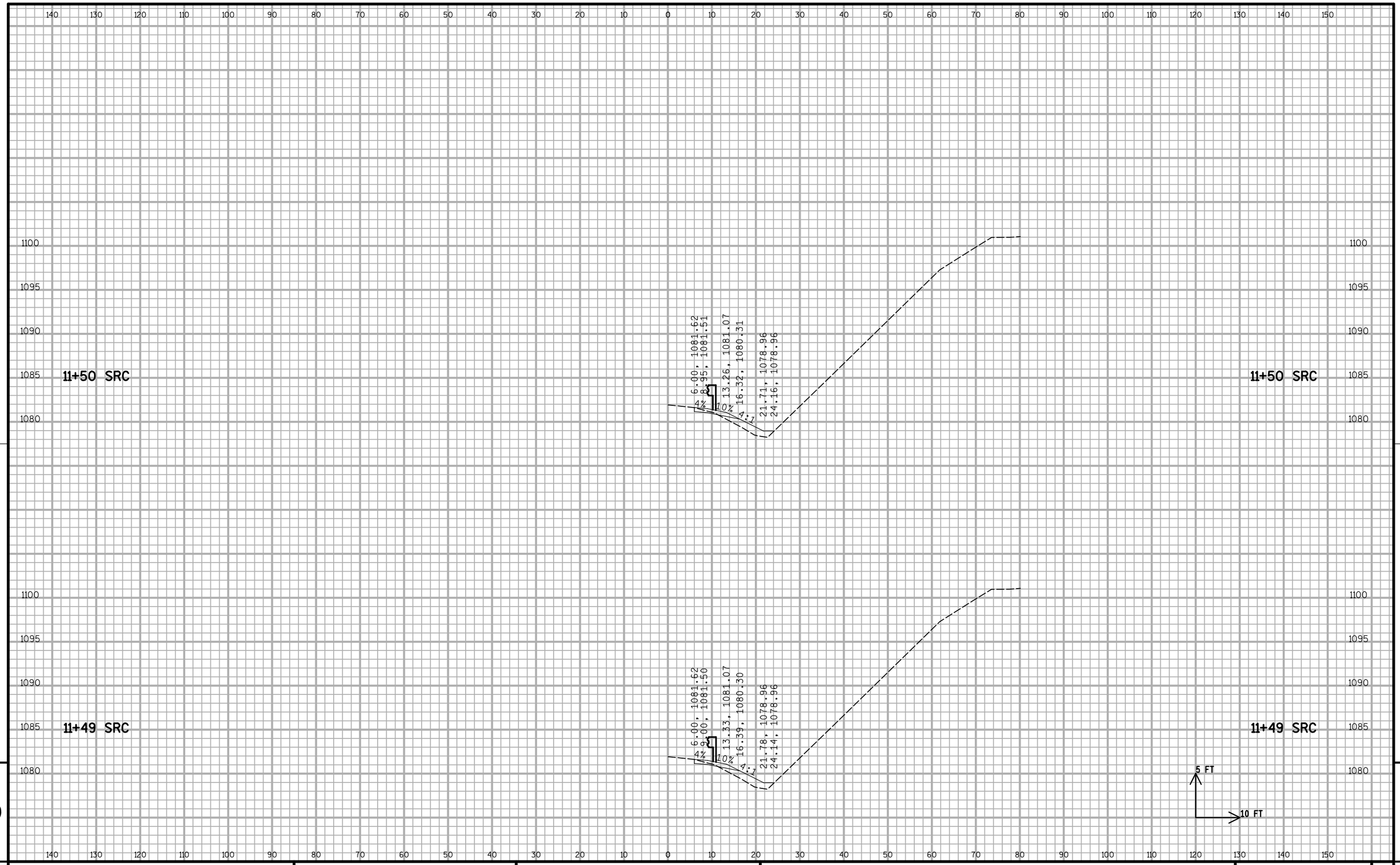
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090223_xs_Mineral PT PCMS.dgn
PLOT DATE : 1/31/2013
PLOT BY : _username_
PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SPRING ROSE CIRCLE (PCMS-01-1038) (SRC LINE)	SHEET 1485	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090224_xs_Spring Rose PCMS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



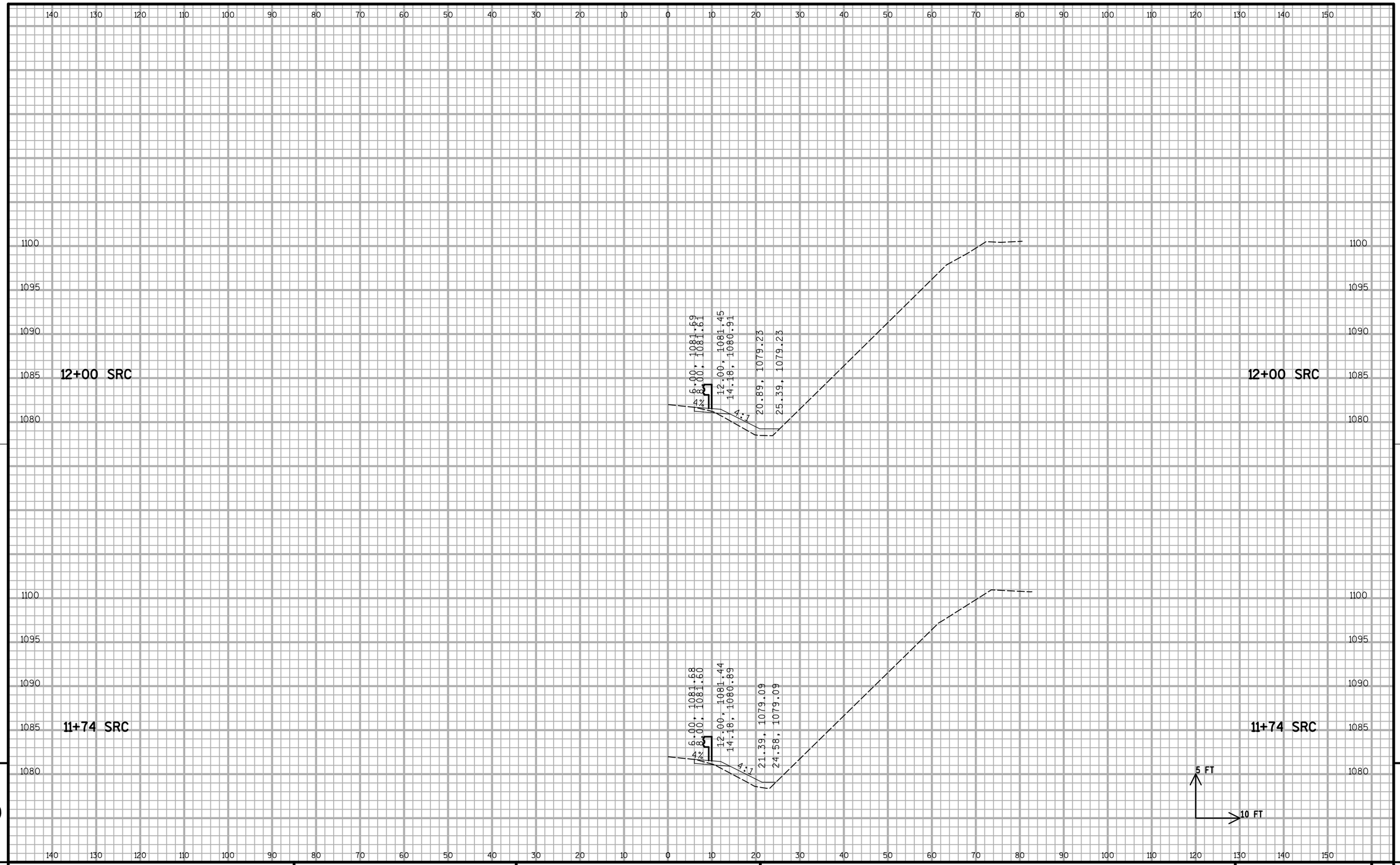
9

9

PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SPRING ROSE CIRCLE (PCMS-01-1038) (SRC LINE)	SHEET 1486	E

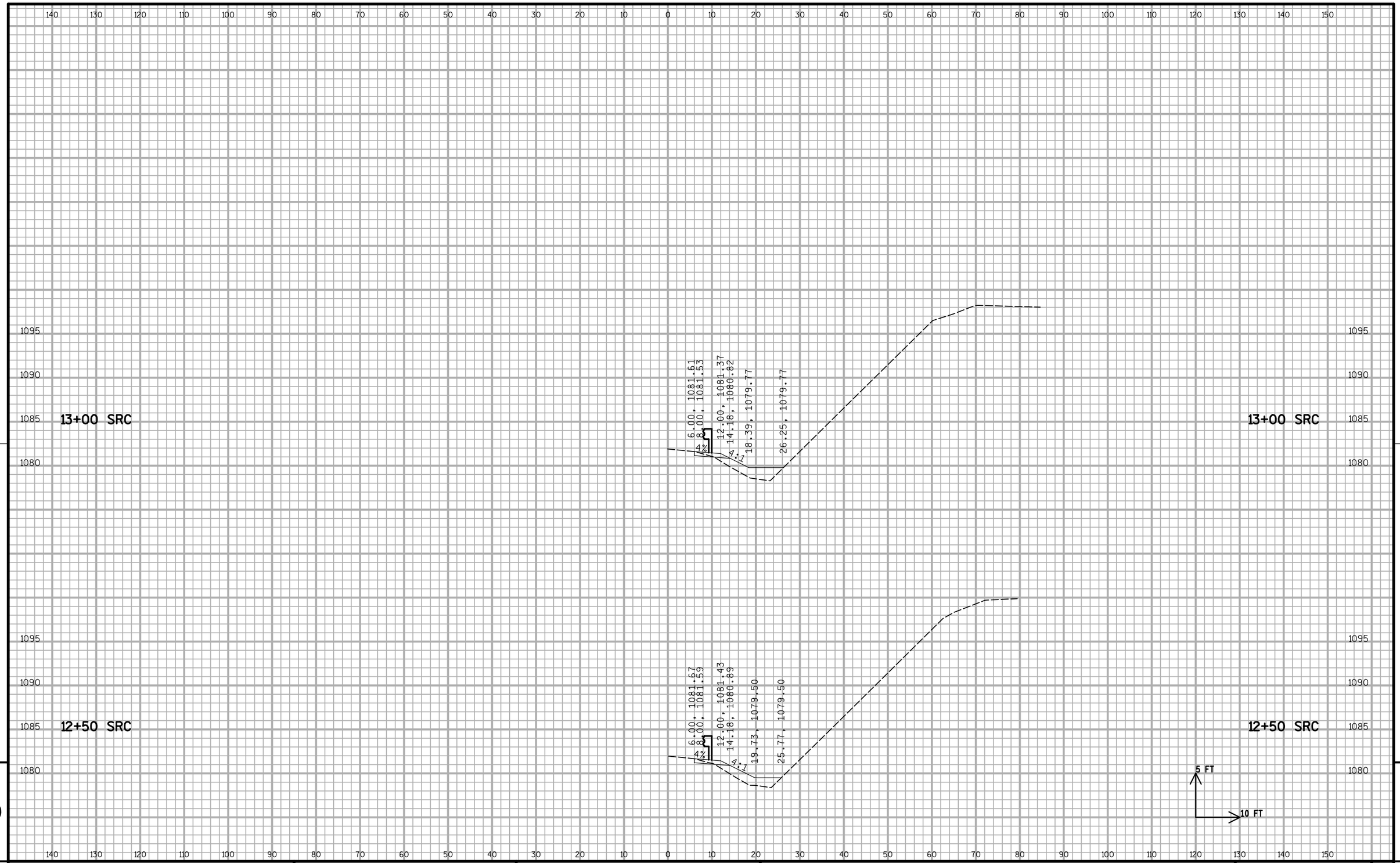
FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090224_xs_Spring Rose PCMS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



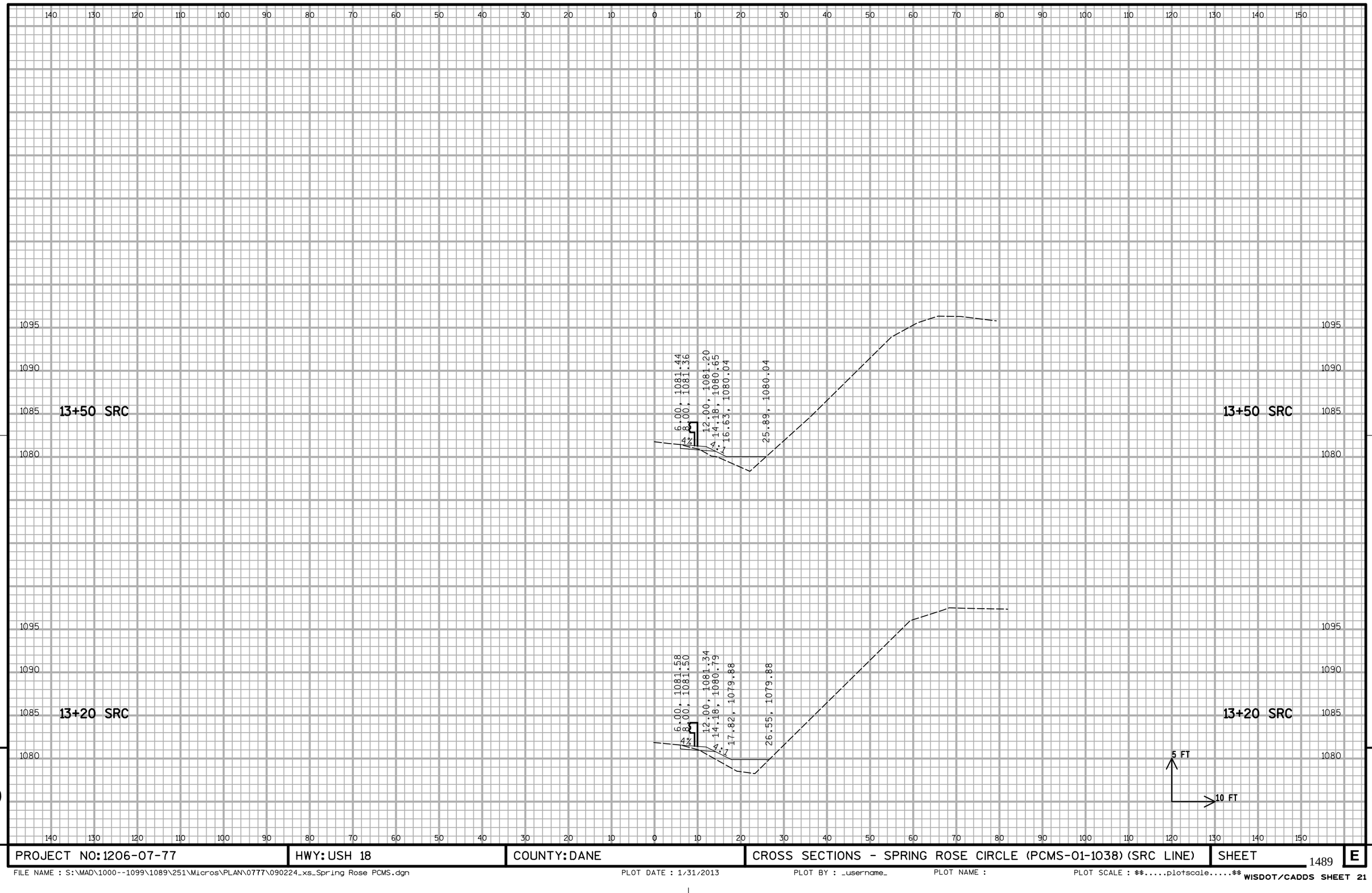
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SPRING ROSE CIRCLE (PCMS-01-1038) (SRC LINE)	SHEET 1487	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090224_xs_Spring Rose PCMS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SPRING ROSE CIRCLE (PCMS-01-1038) (SRC LINE)	SHEET 1488	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090224_xs_Spring Rose PCMS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SPRING ROSE CIRCLE (PCMS-01-1038) (SRC LINE)	SHEET 1489	E

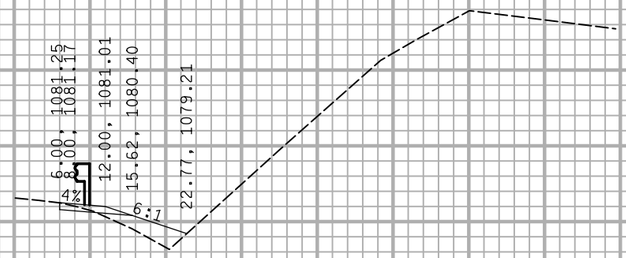
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END CONSTRUCTION
STA. 14+33.4 SRC

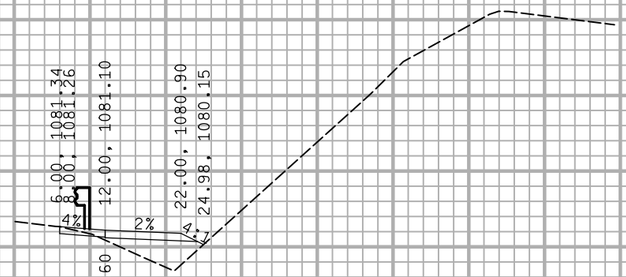
14+50 SRC



14+00 SRC



13+70 SRC



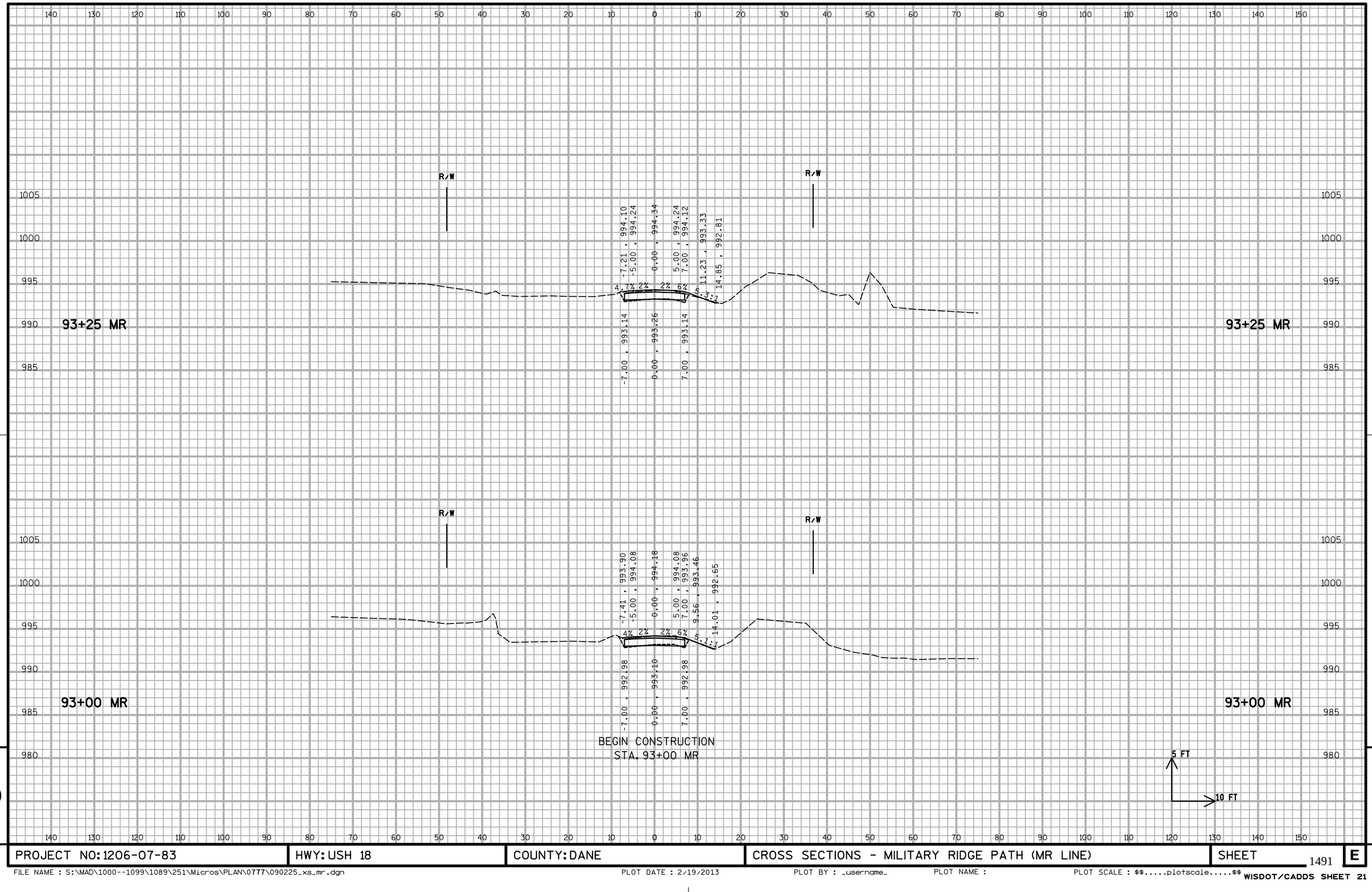
5 FT
10 FT

9

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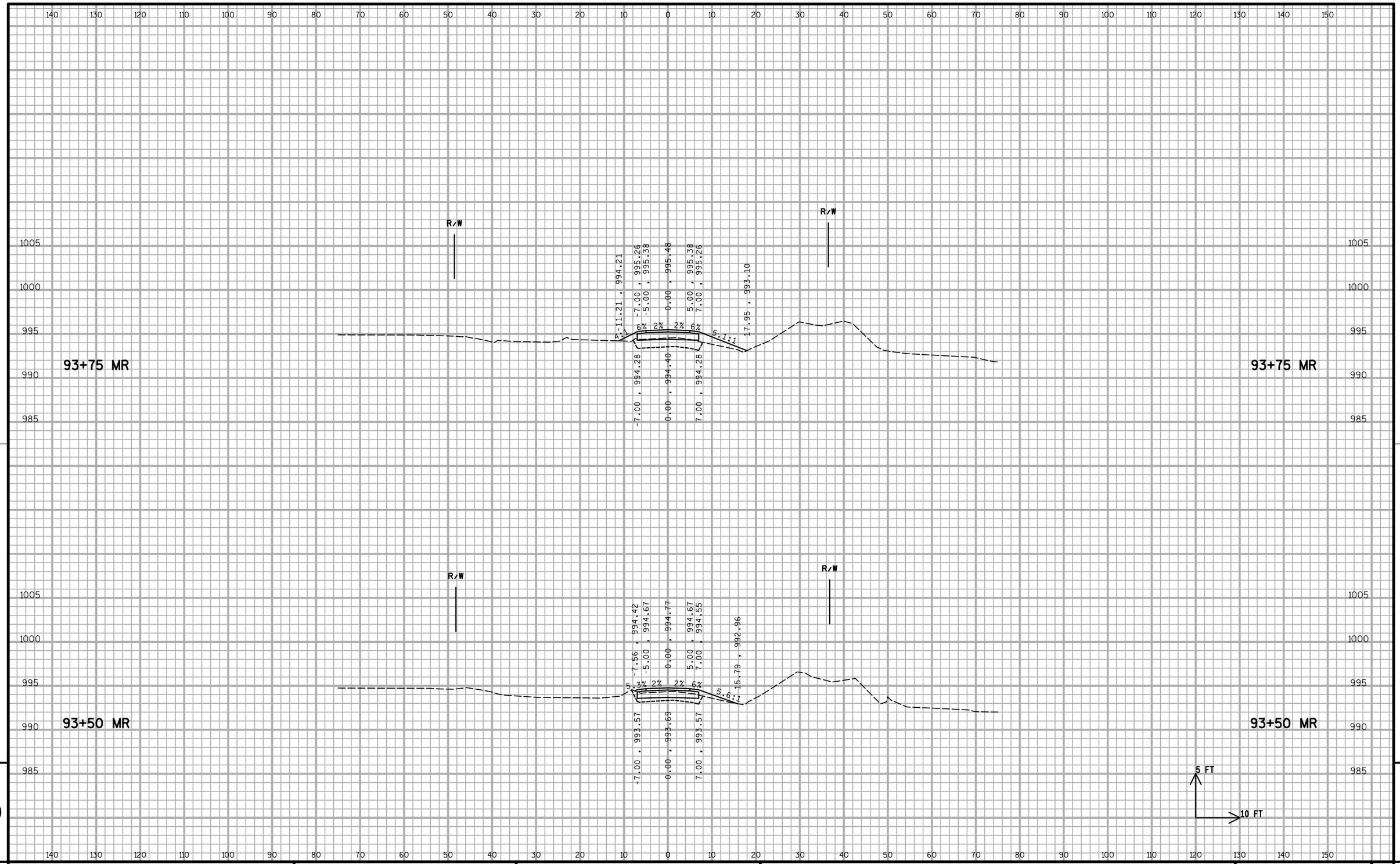
PROJECT NO: 1206-07-77	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SPRING ROSE CIRCLE (PCMS-01-1038) (SRC LINE)	SHEET 1490	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090224_xs_Spring Rose PCMS.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



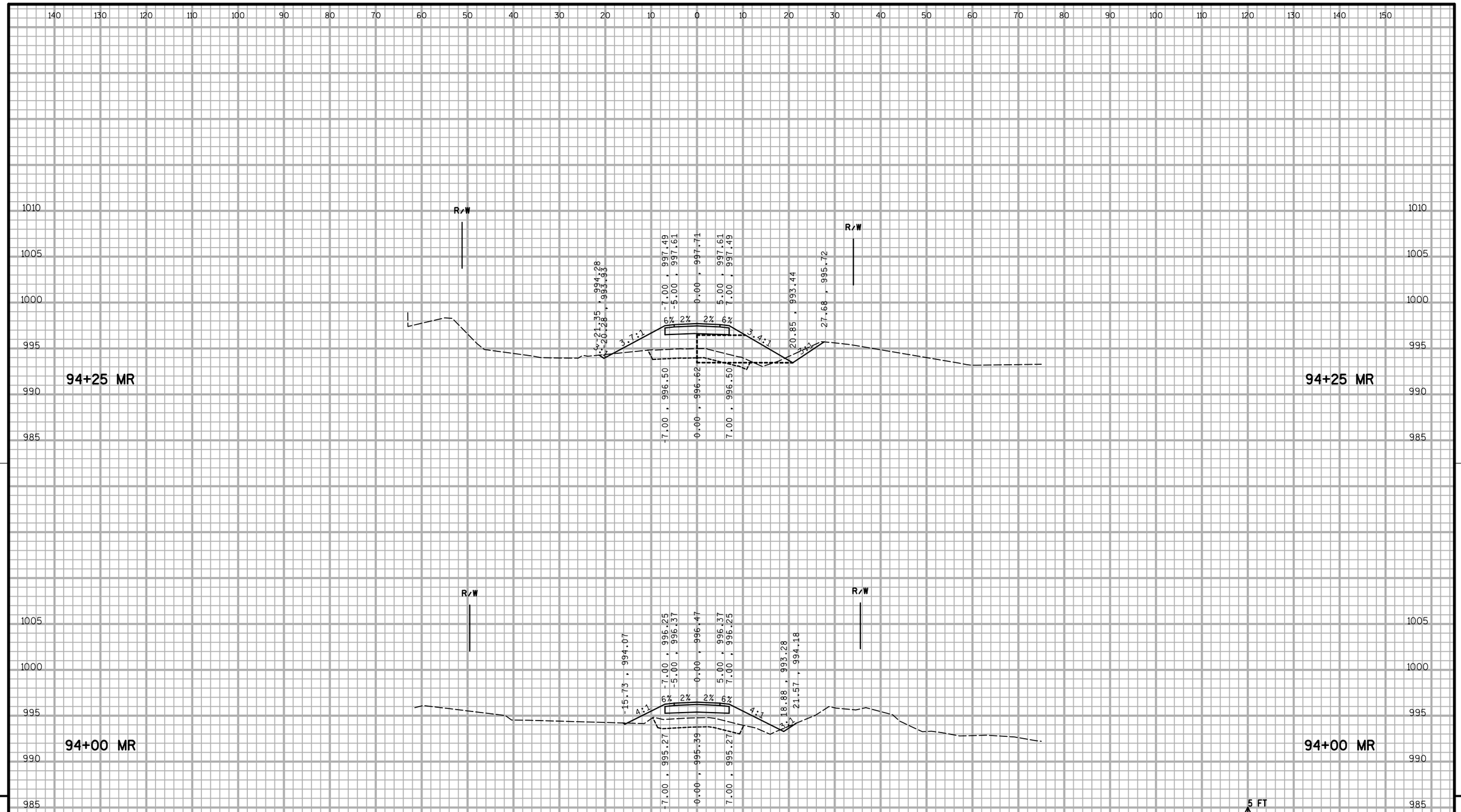
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1491	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



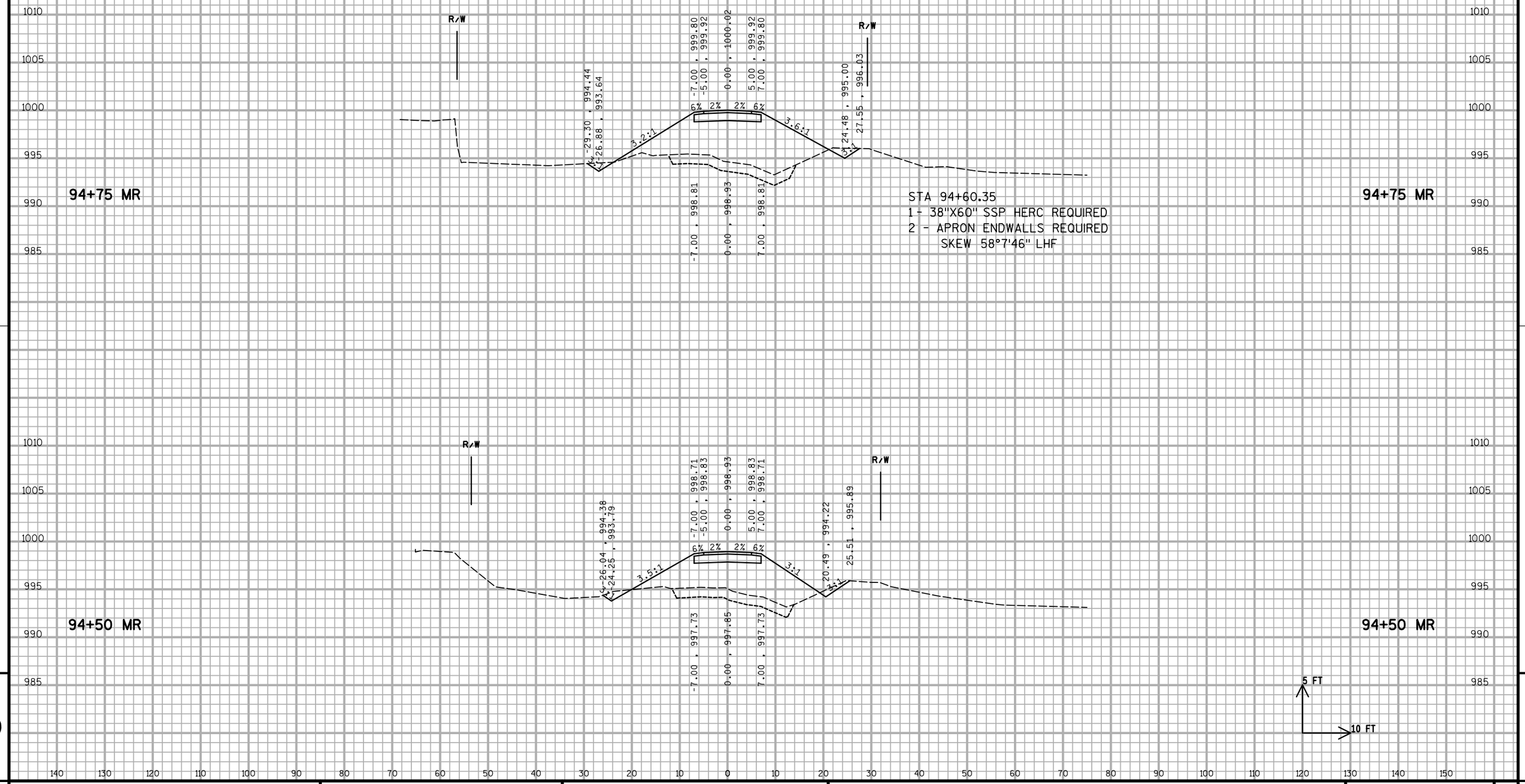
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1492	E

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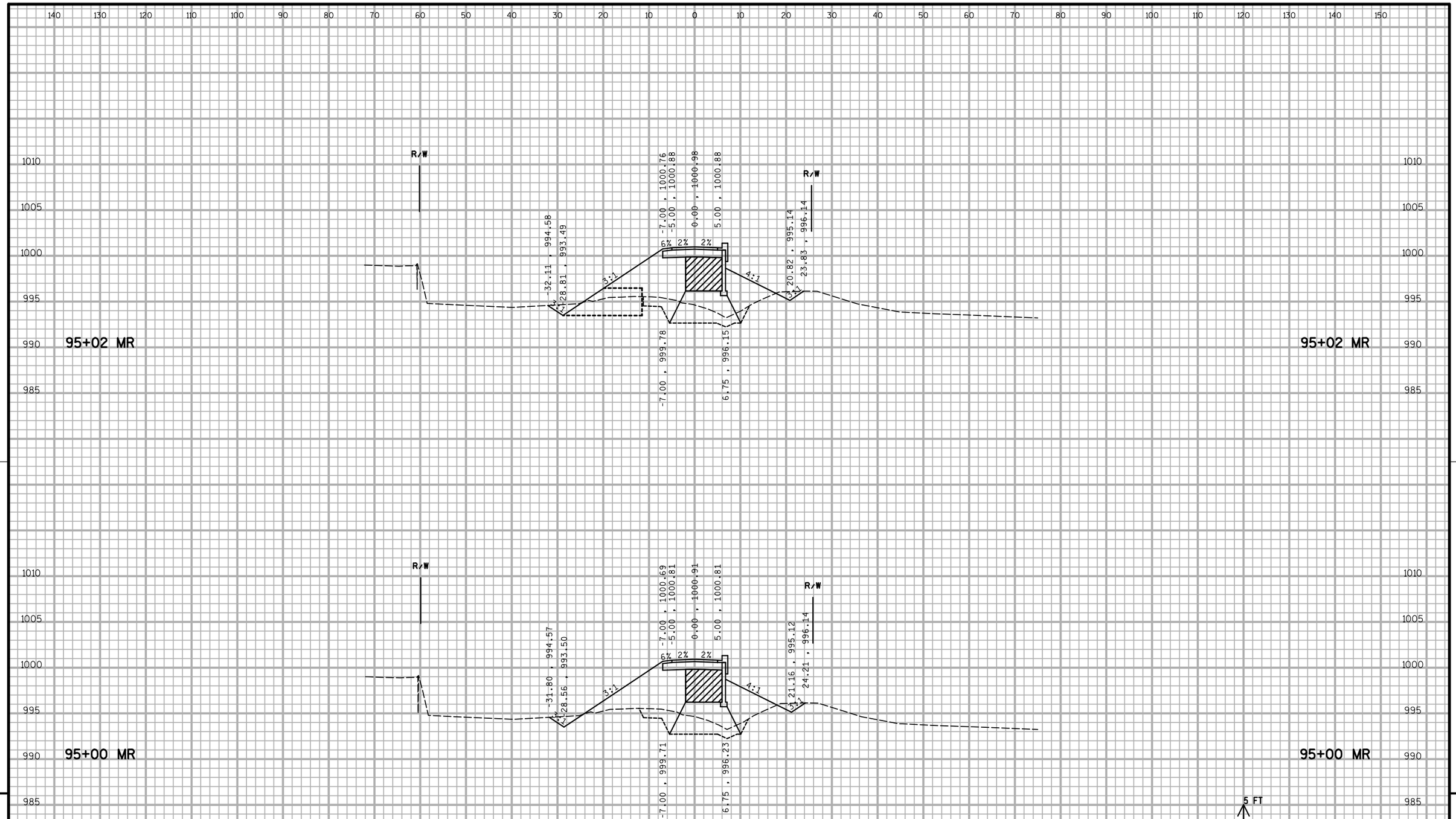
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1494	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



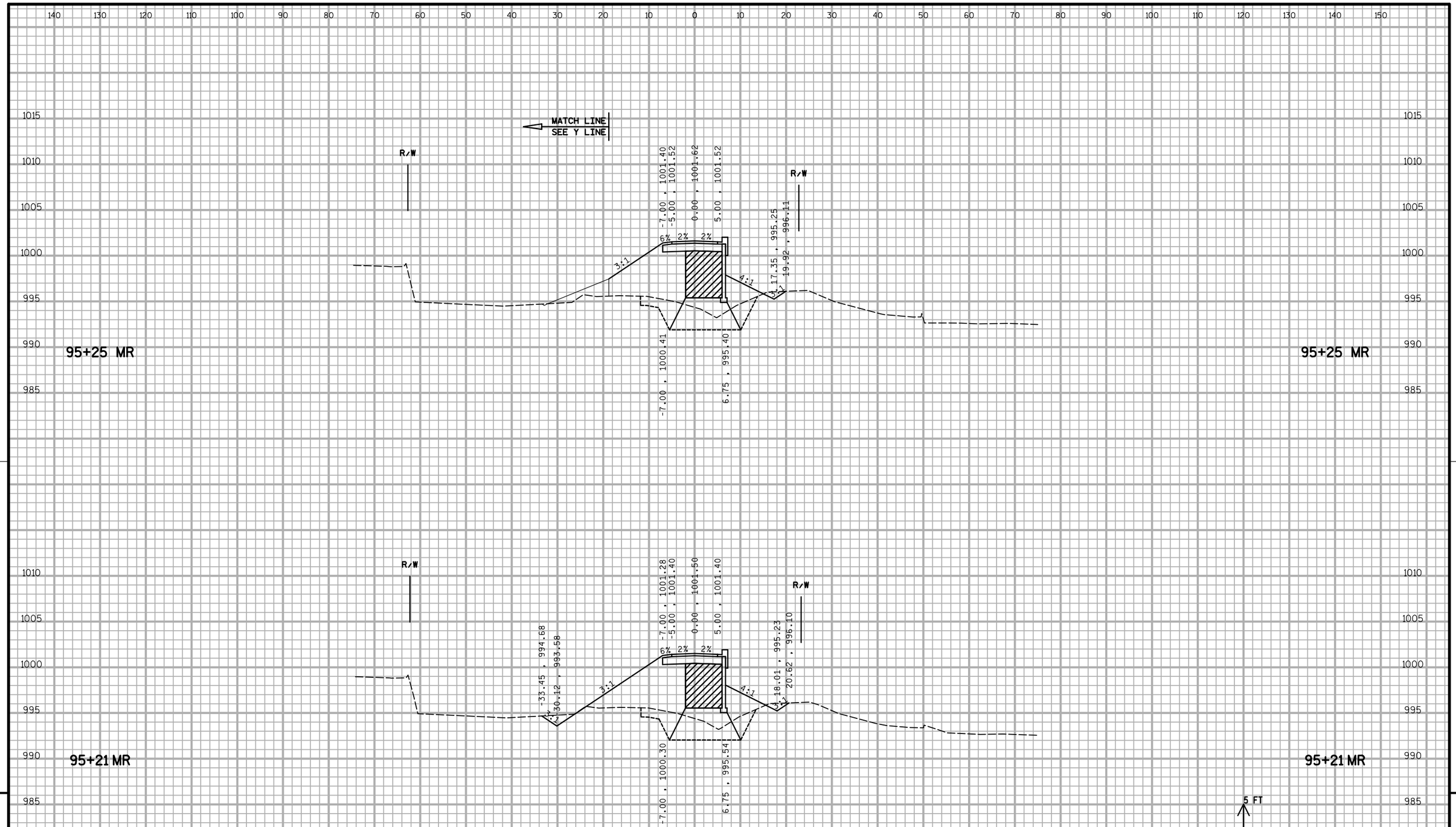
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1495	E

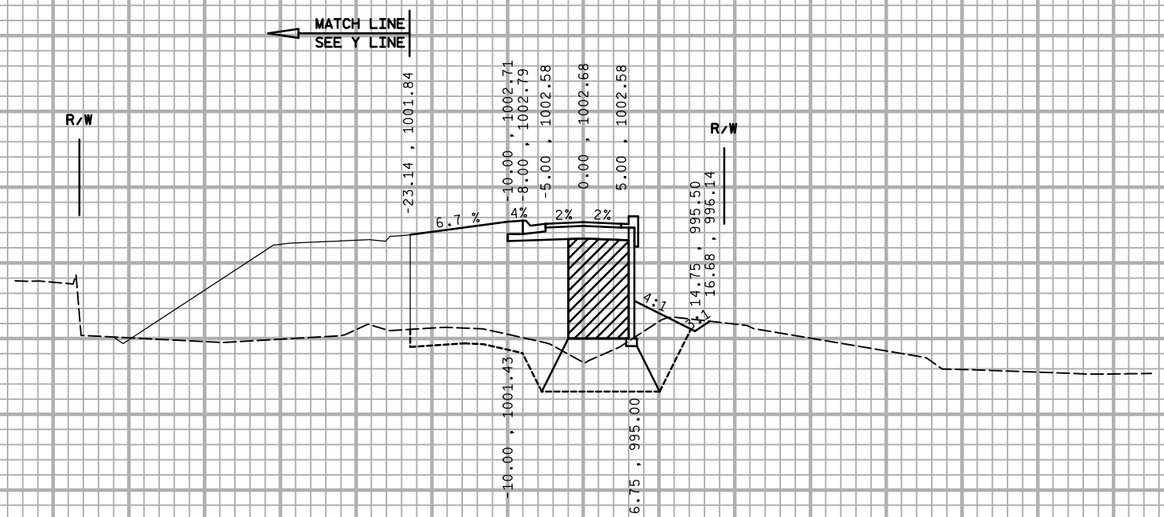
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WISDOT/CADDS SHEET 21



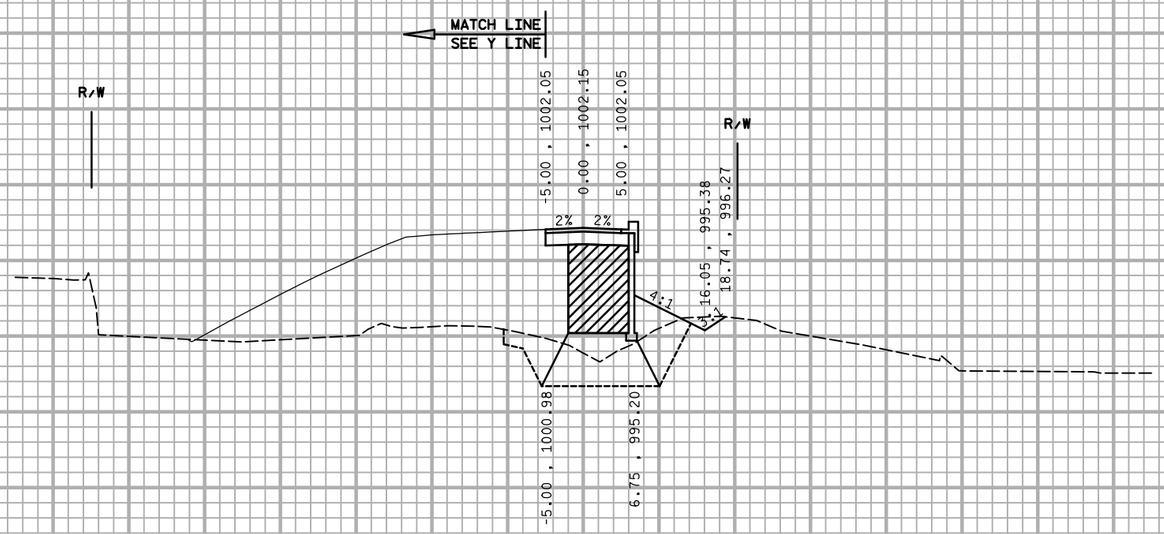
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1496	E

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95+75 MR

95+75 MR



95+50 MR

95+50 MR

5 FT

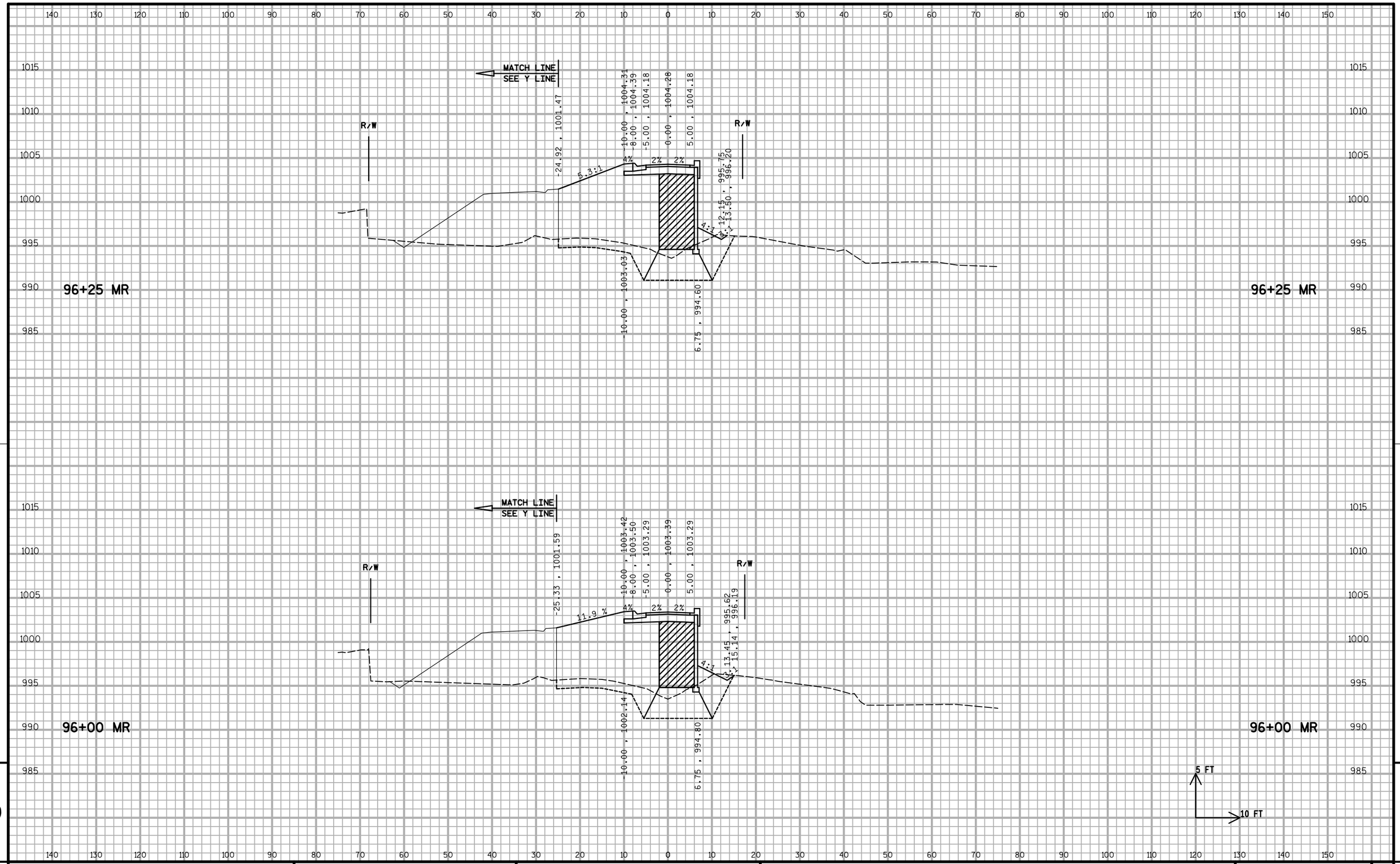
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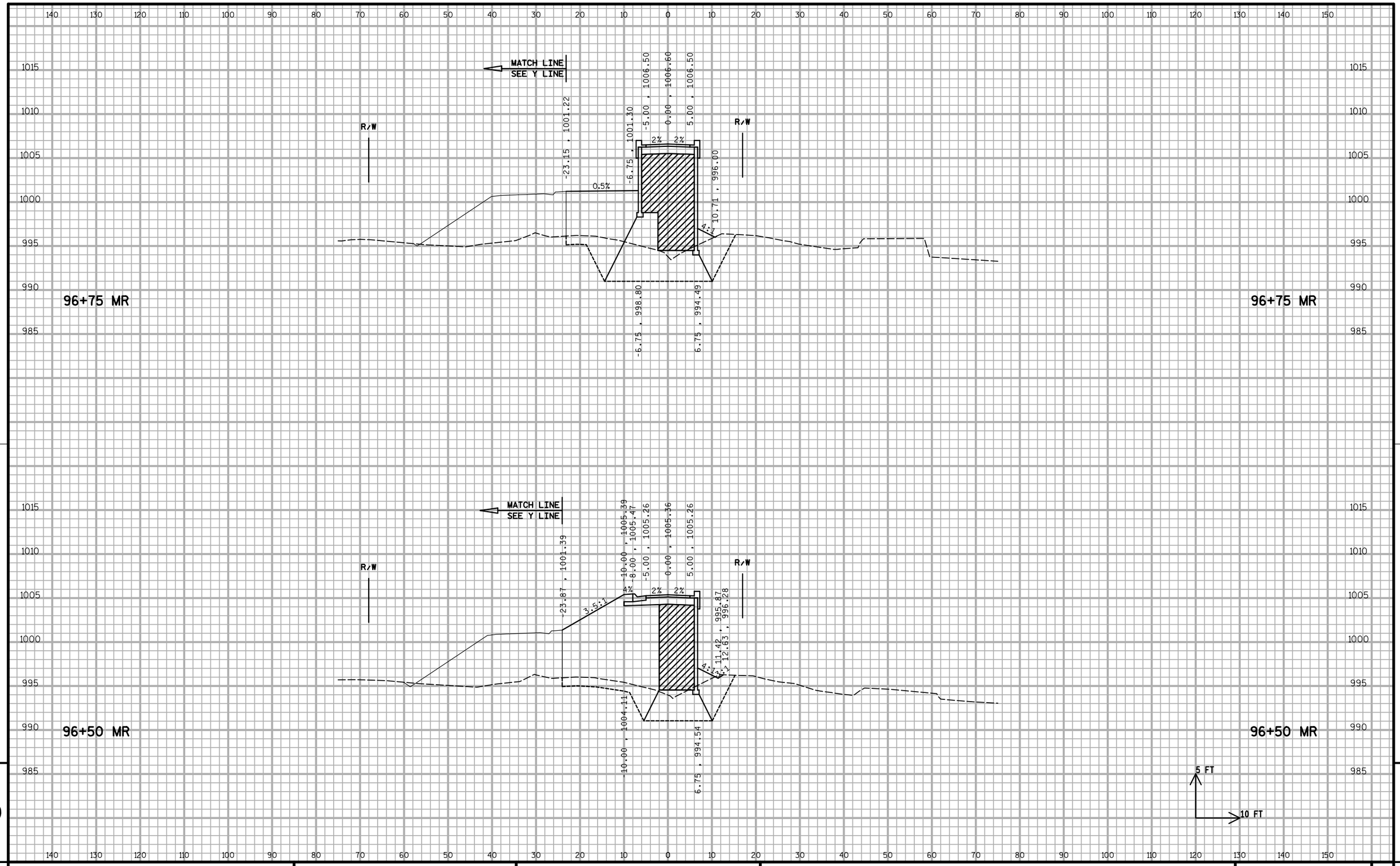
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1497	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



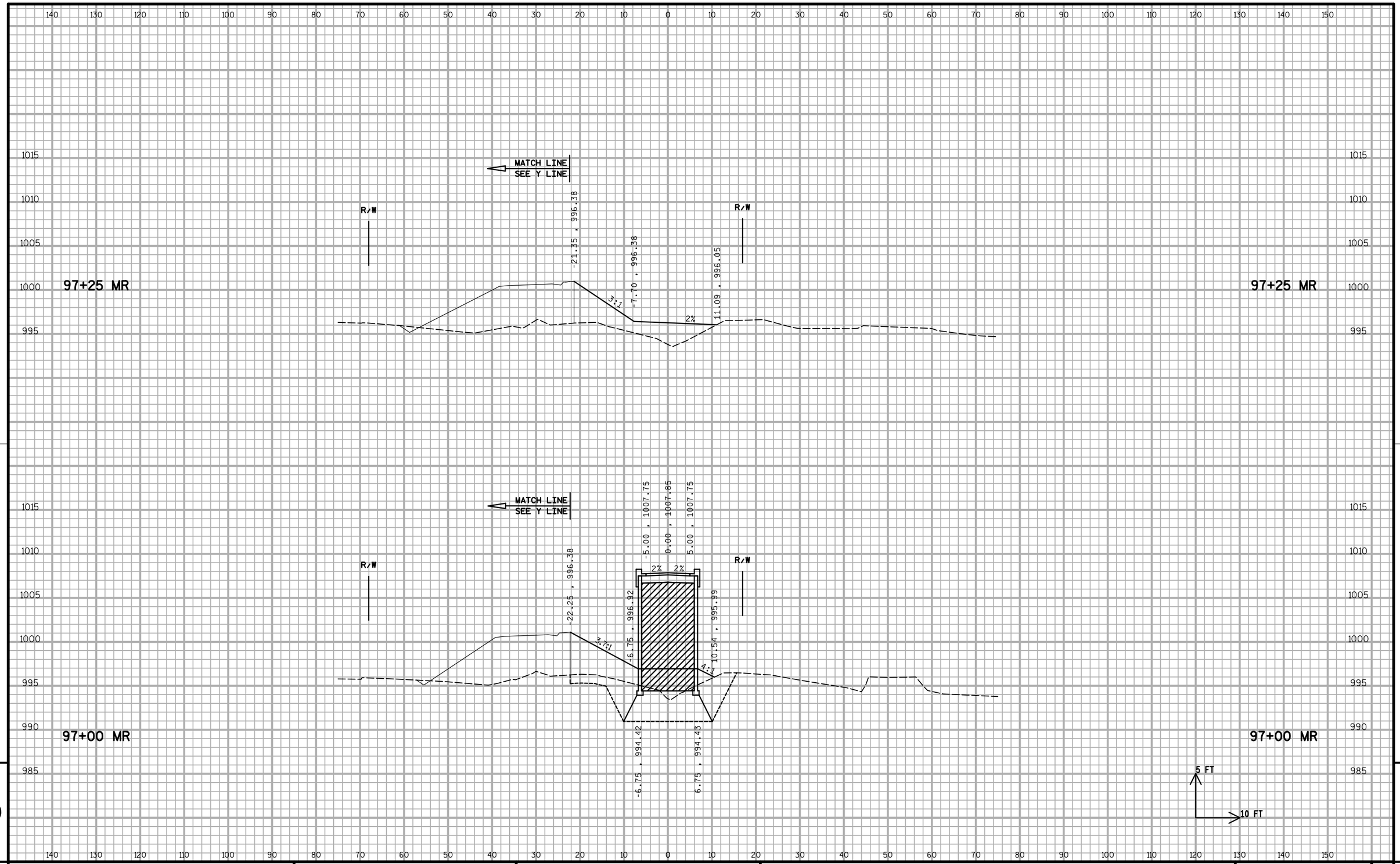
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1498	E

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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1499	E

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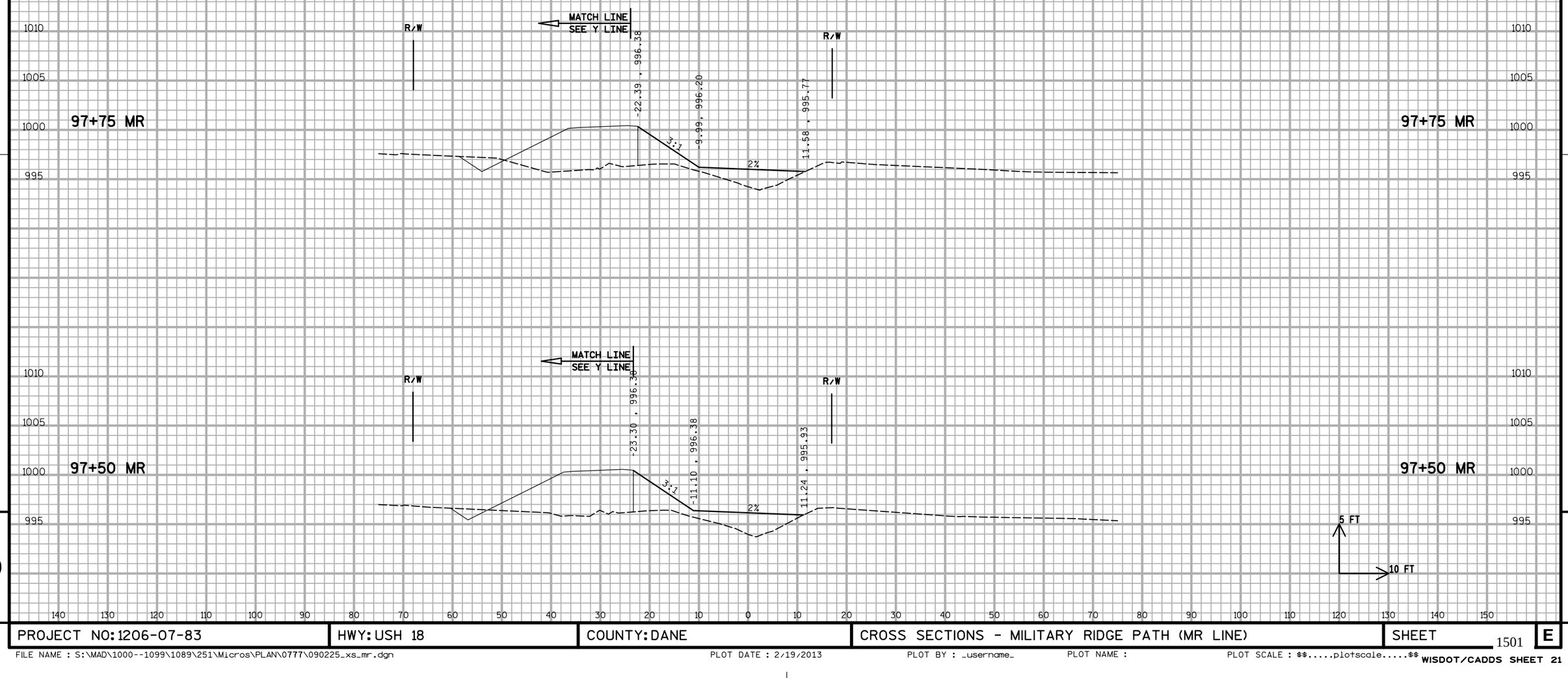


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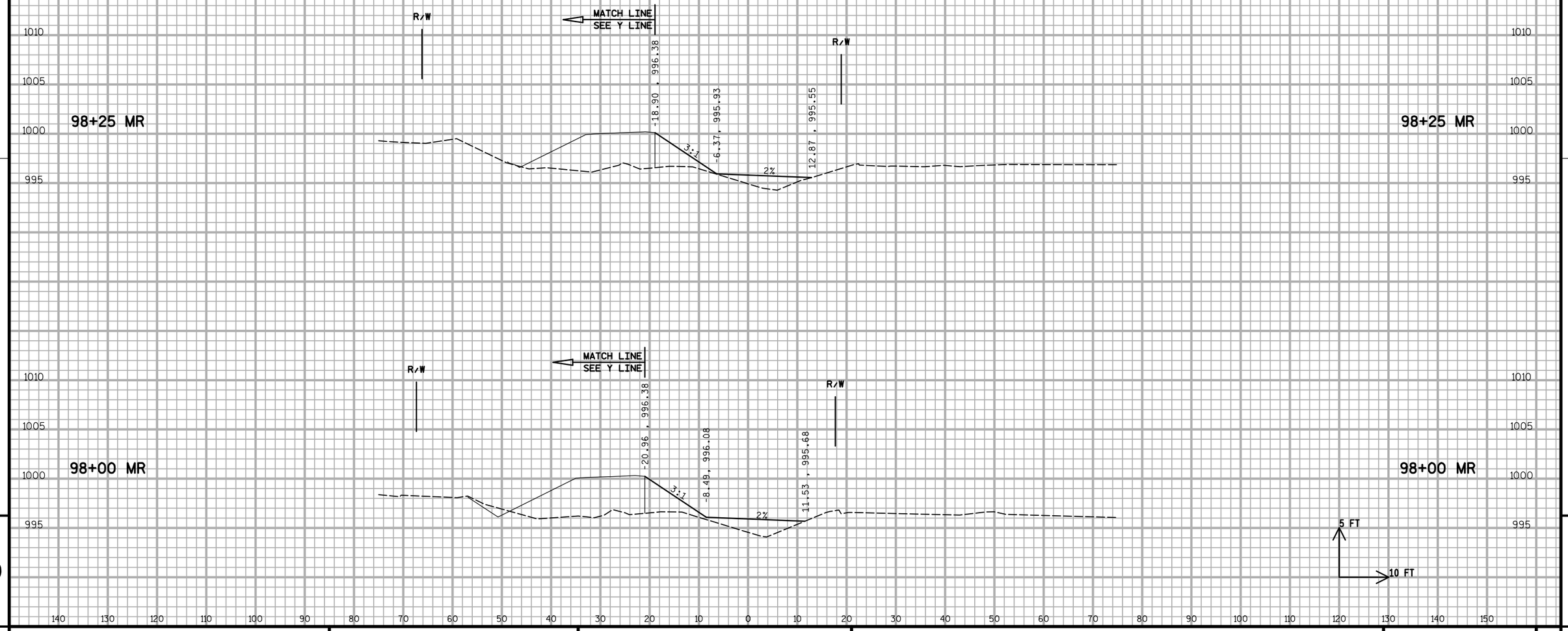
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1500	E

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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1501	E

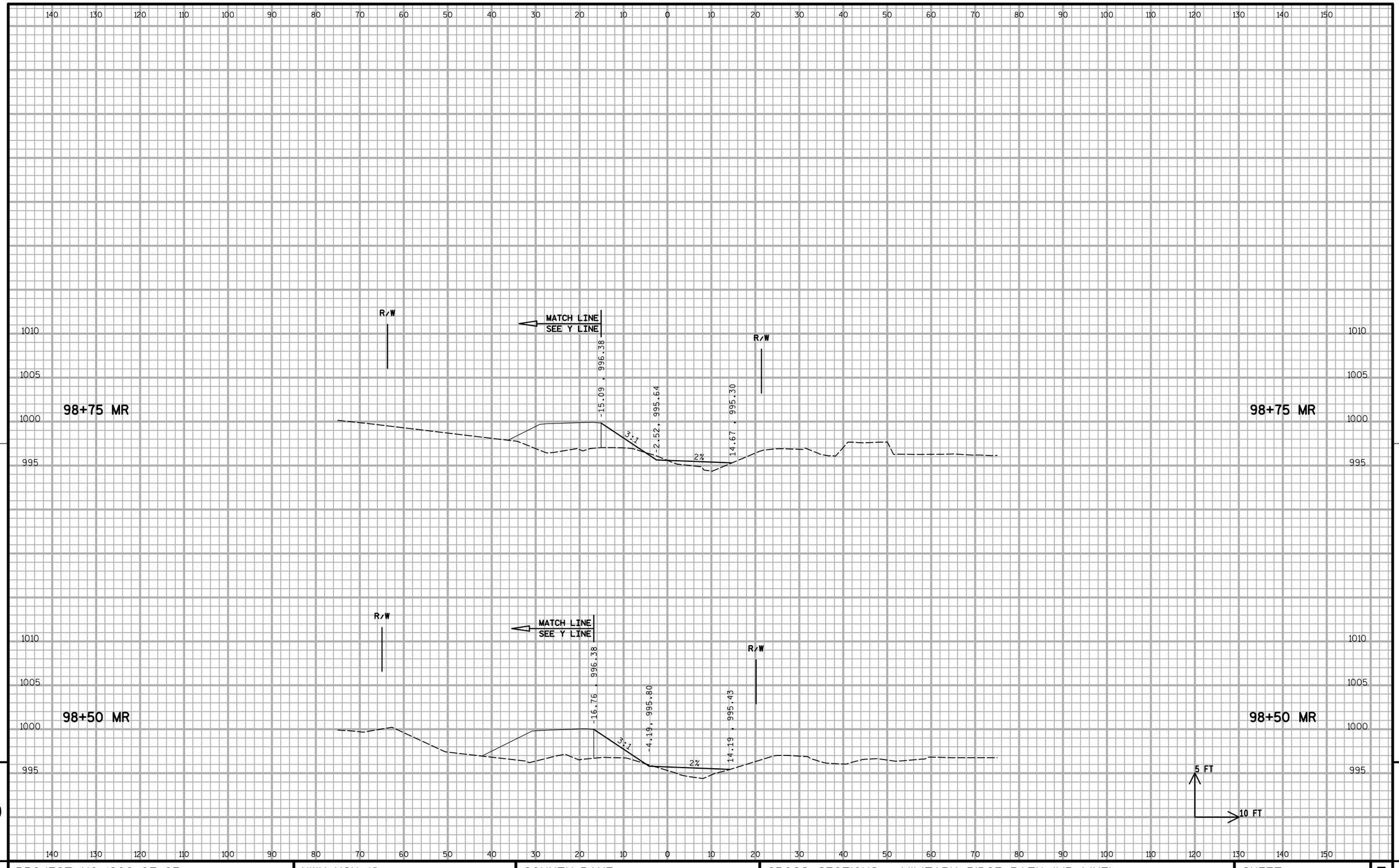


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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1502	E

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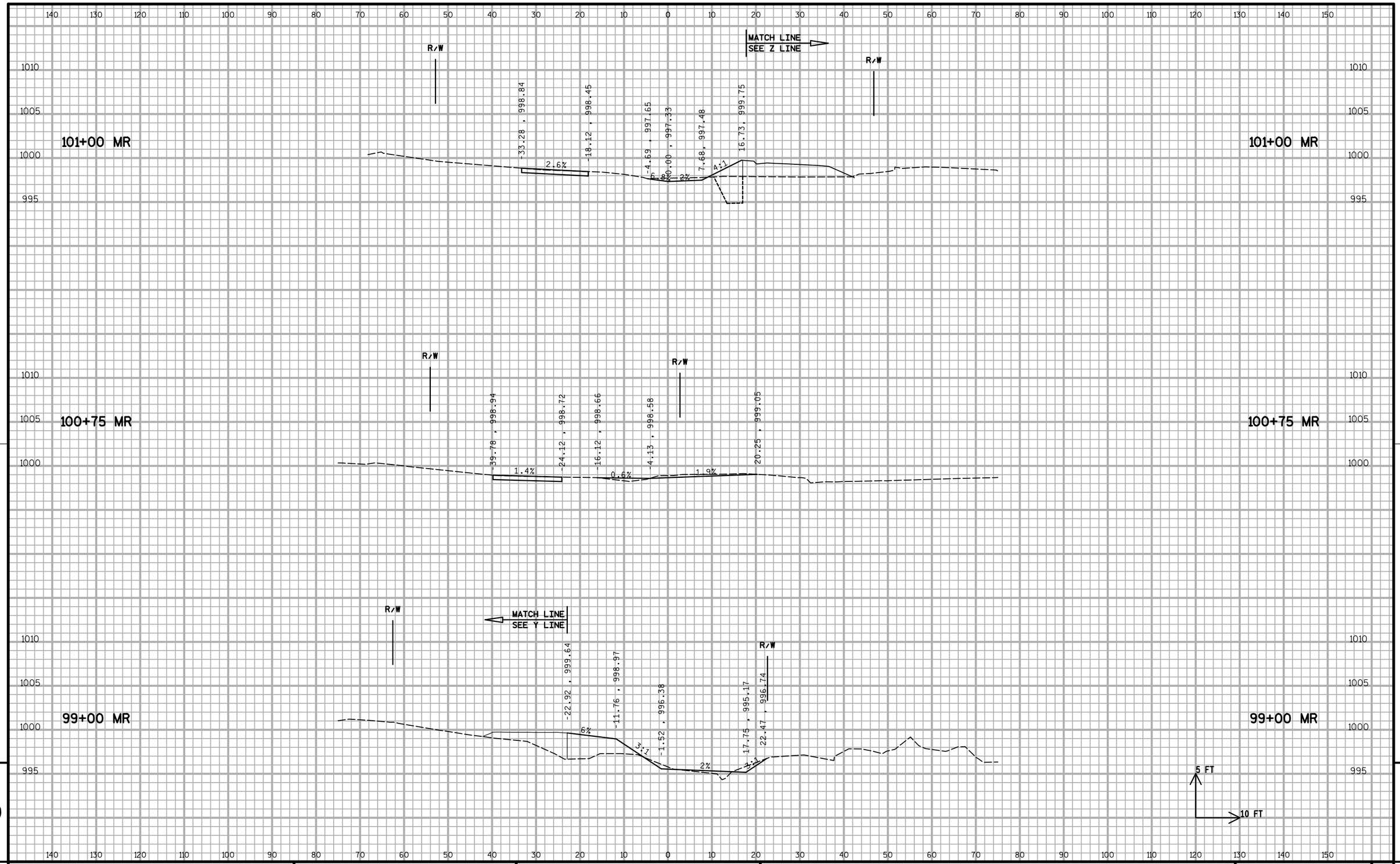
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1503	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



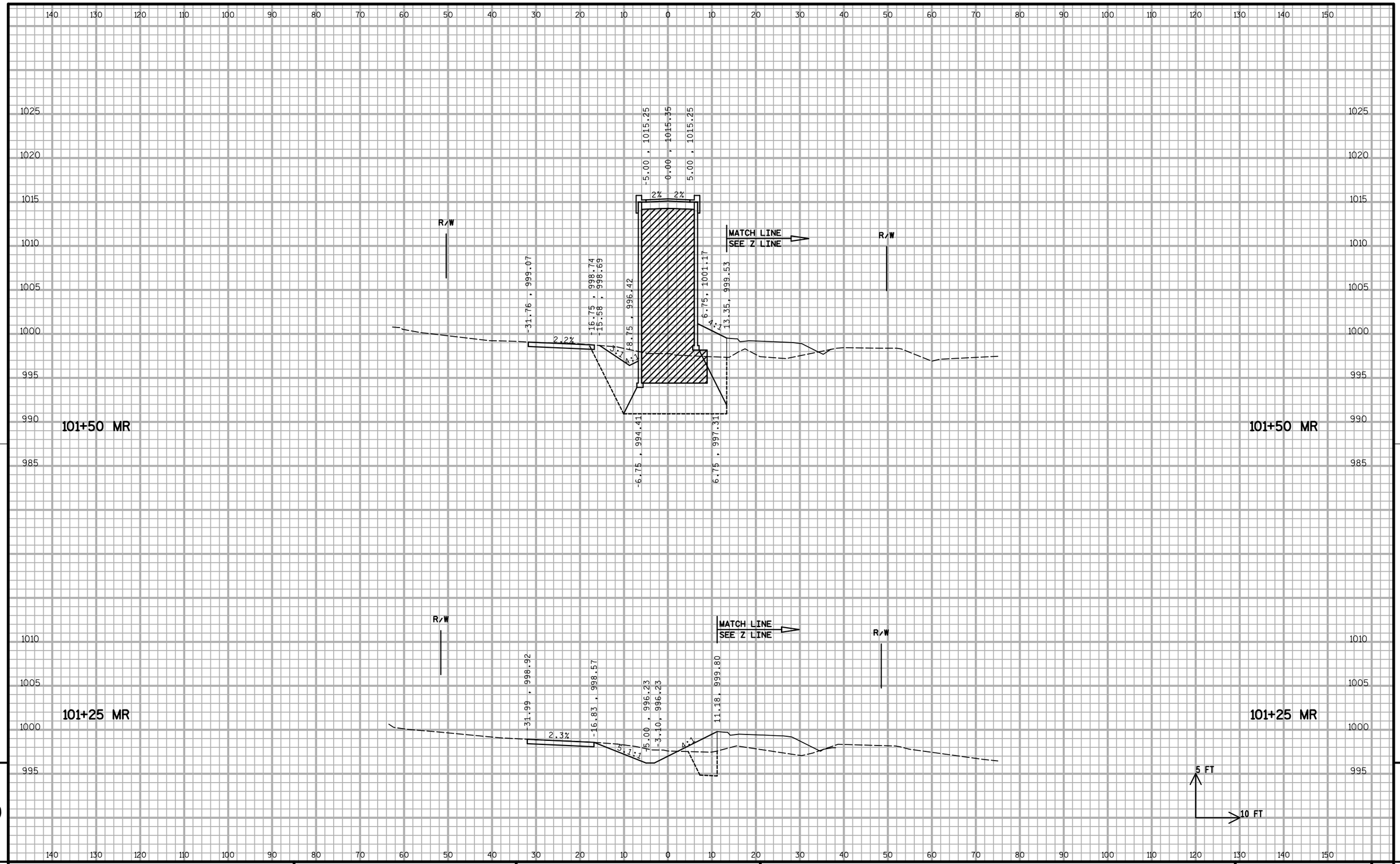
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1504	E

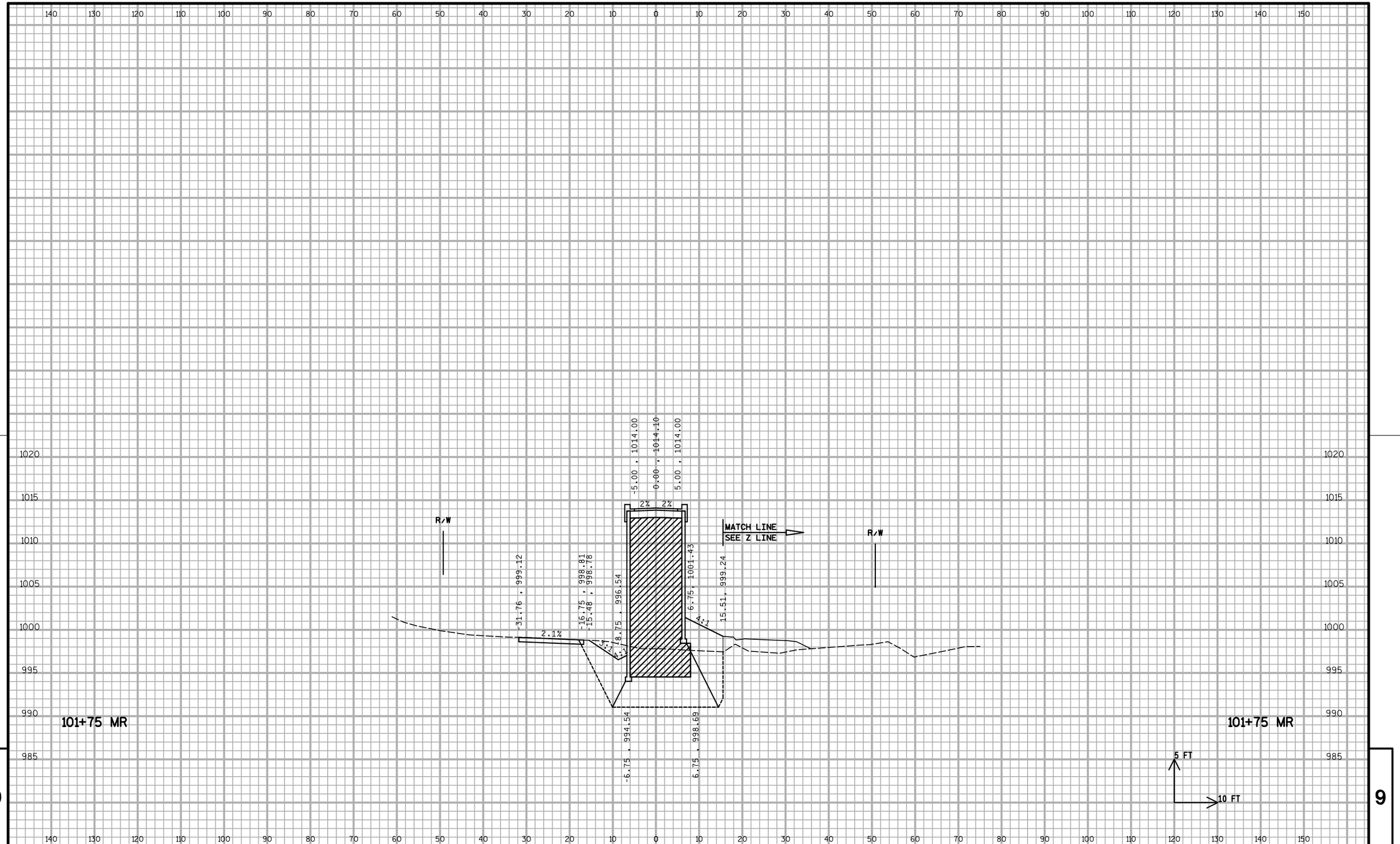
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WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1505	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

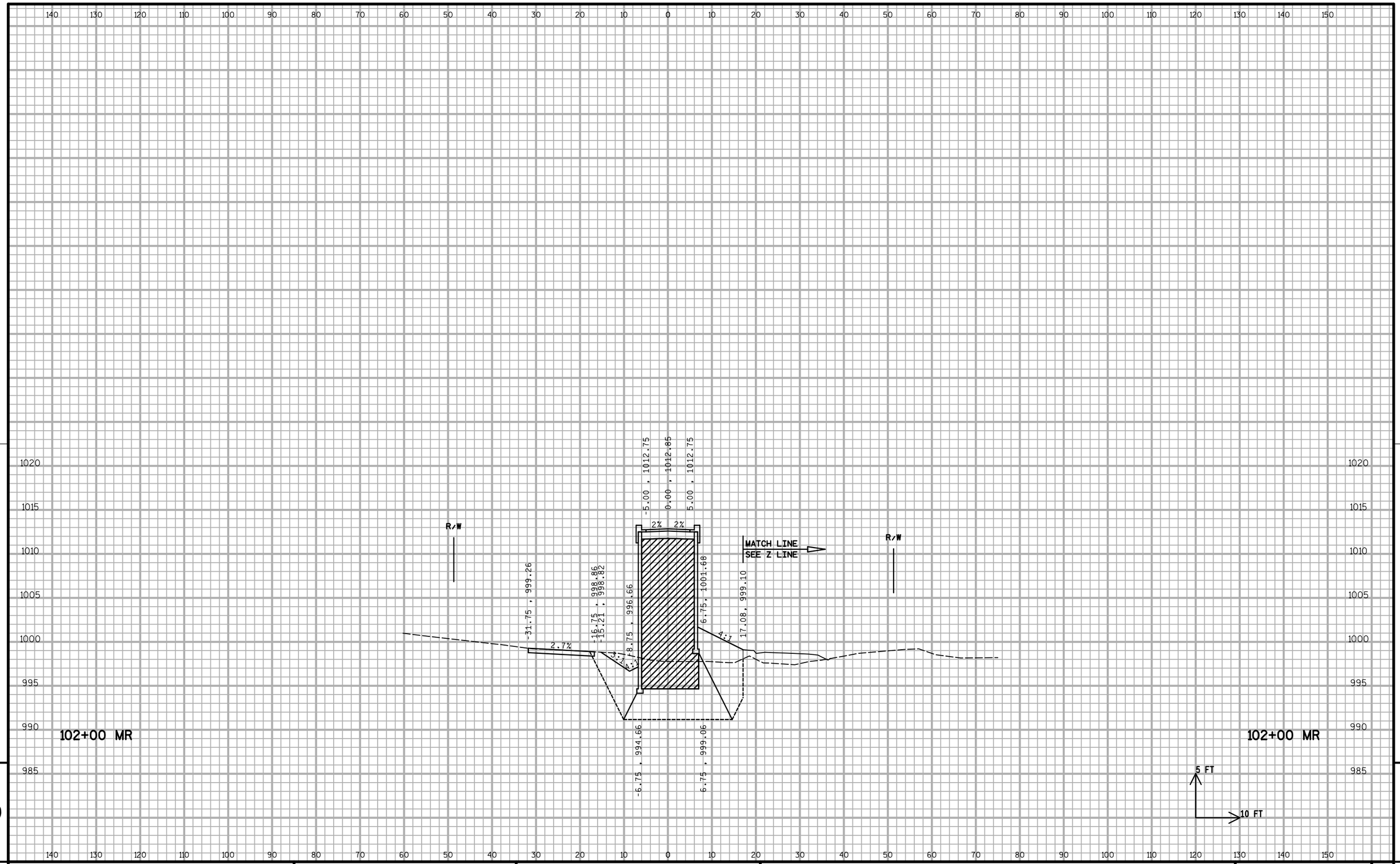


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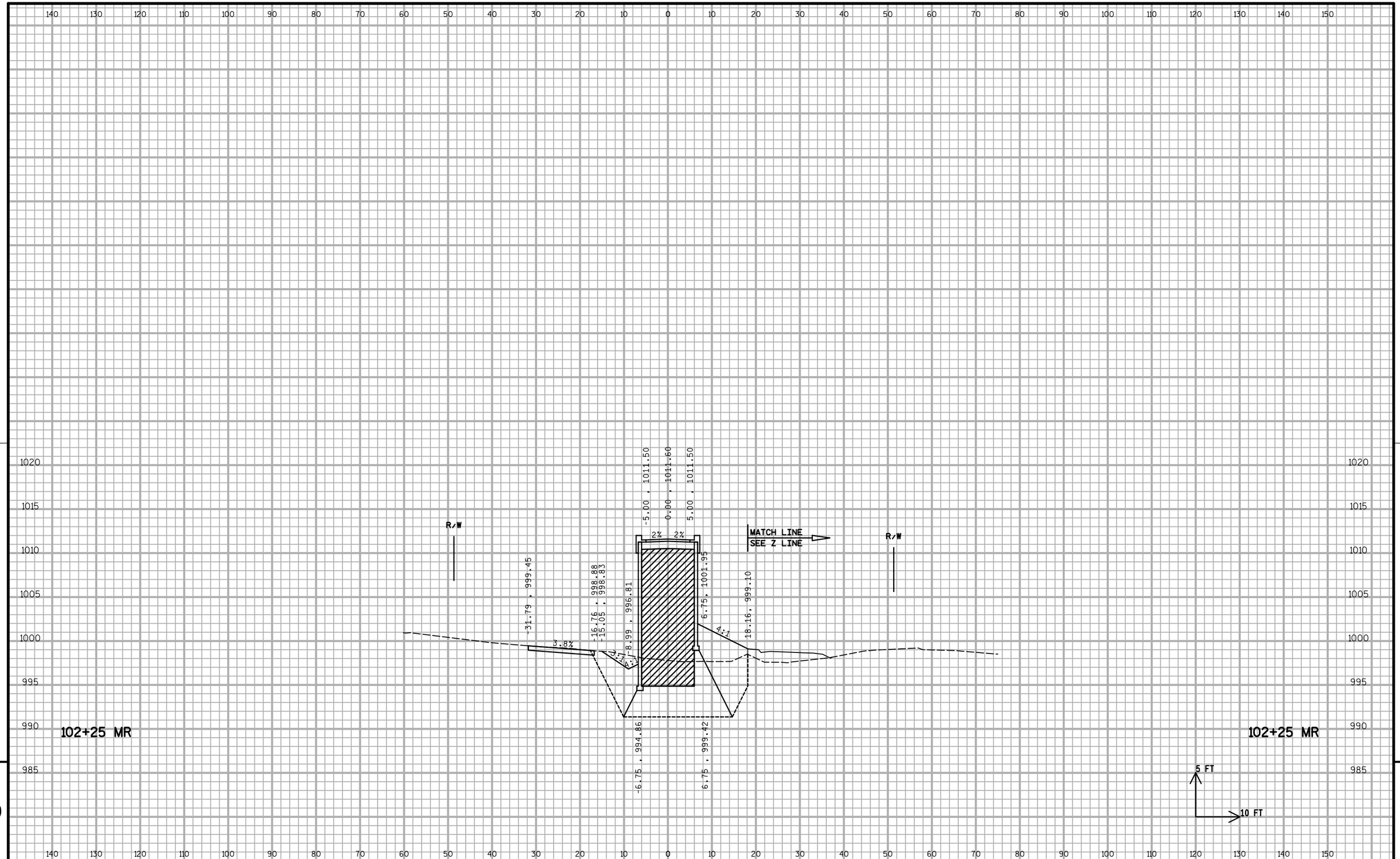
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1506	E

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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1507	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

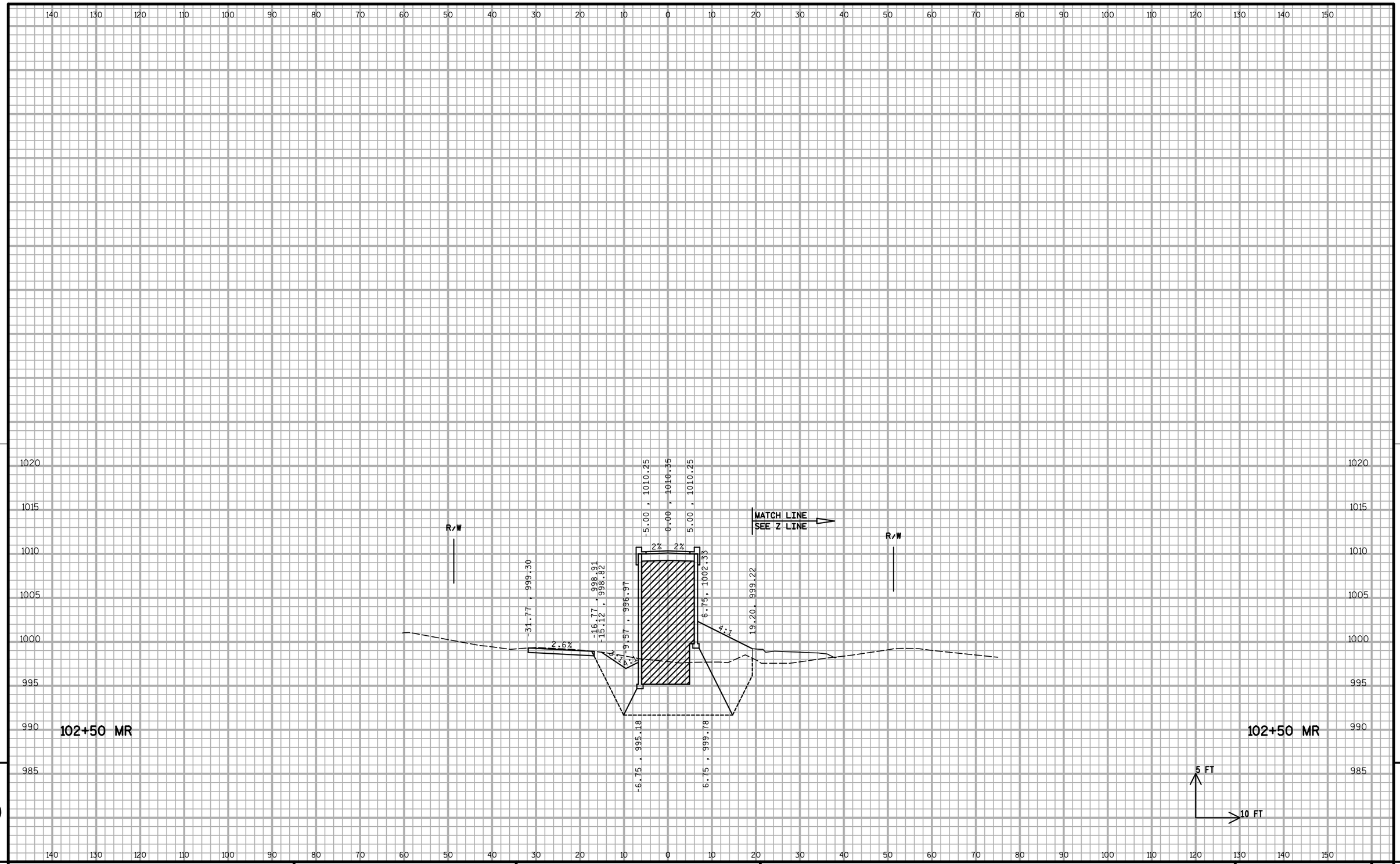


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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1508	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

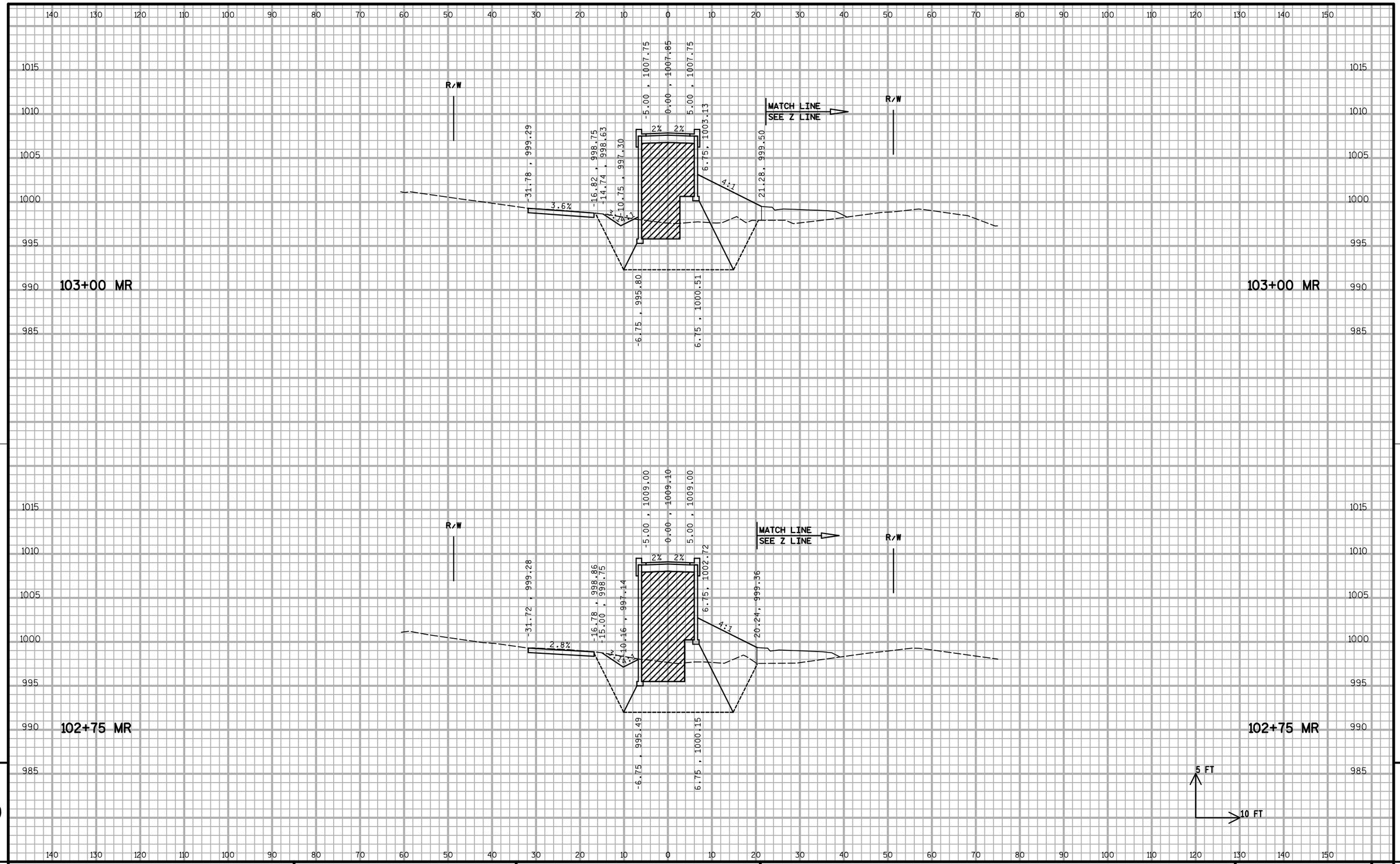


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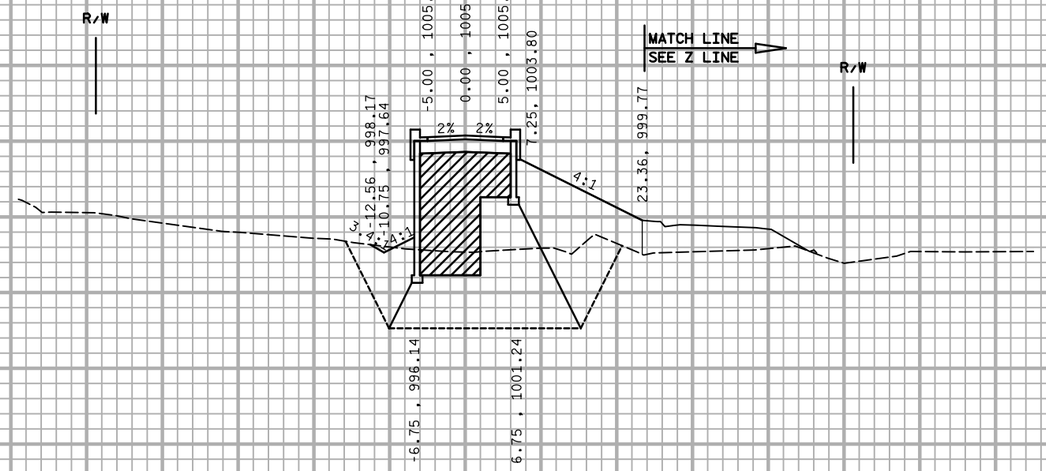
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FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



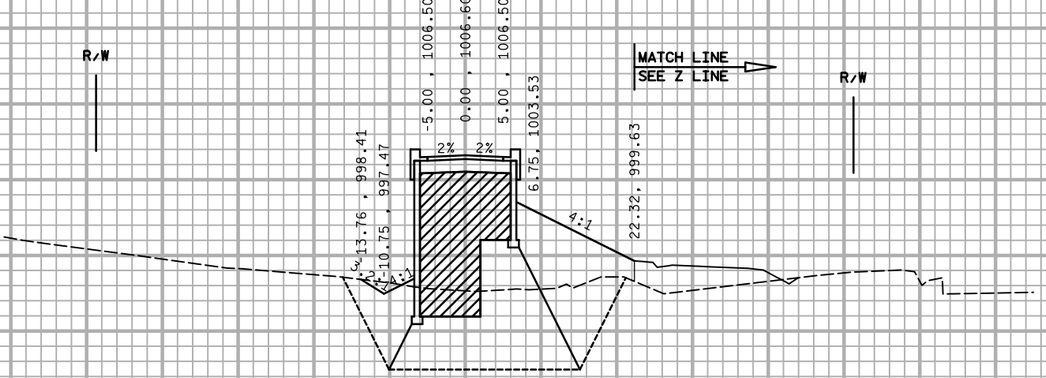
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1510	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



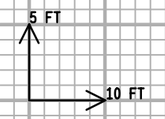
103+50 MR

103+50 MR



103+25 MR

103+25 MR

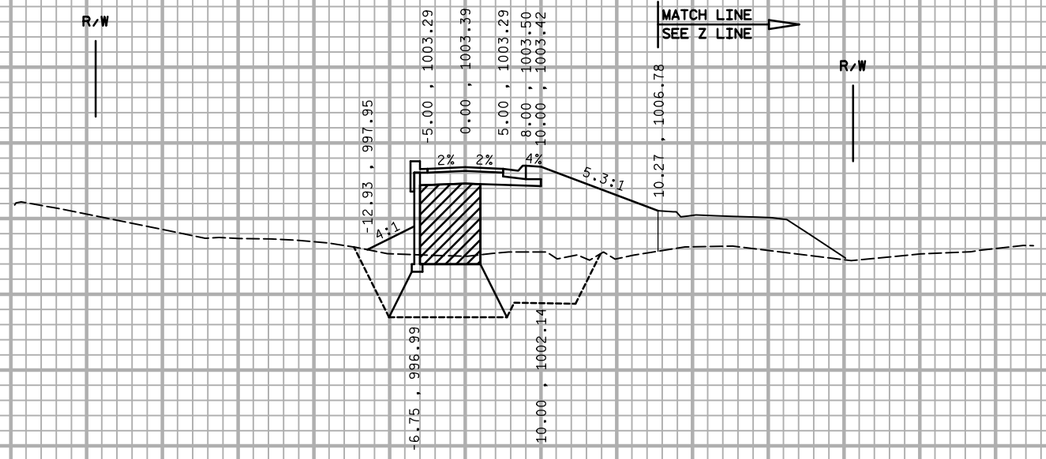


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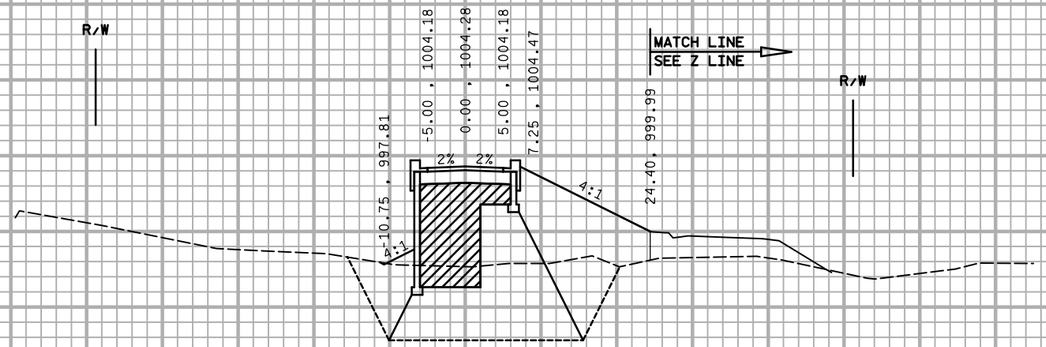
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1511	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



104+00 MR

104+00 MR



103+75 MR

103+75 MR

5 FT

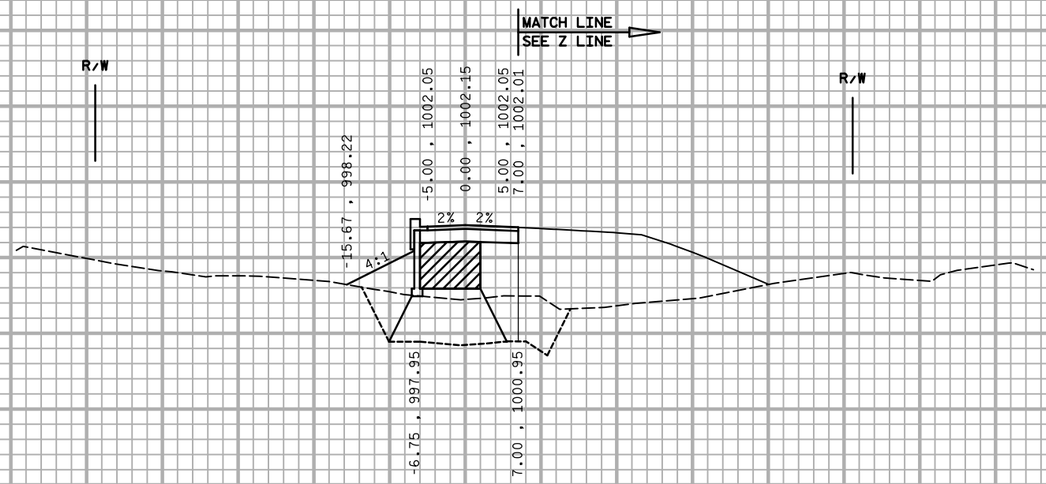
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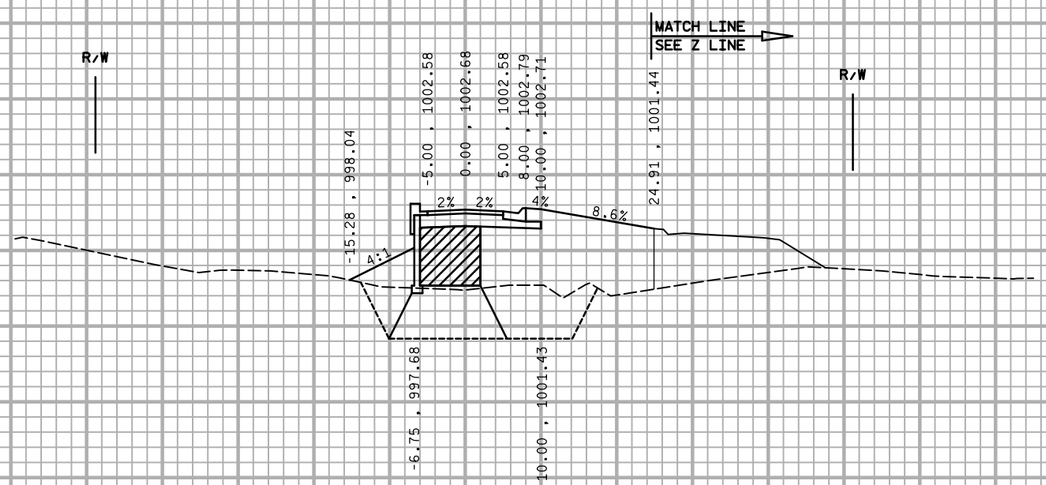
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1512	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



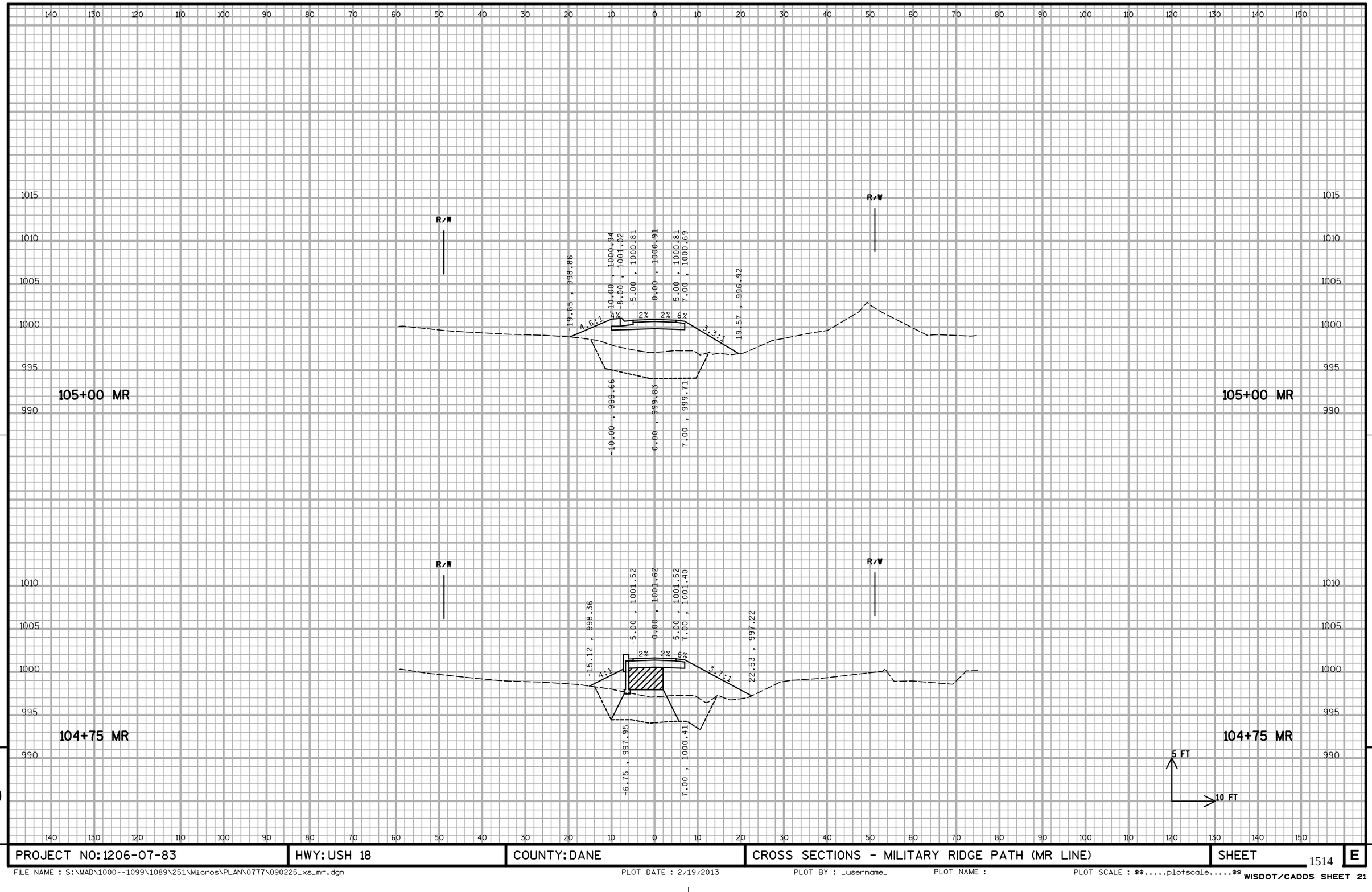


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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1513	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

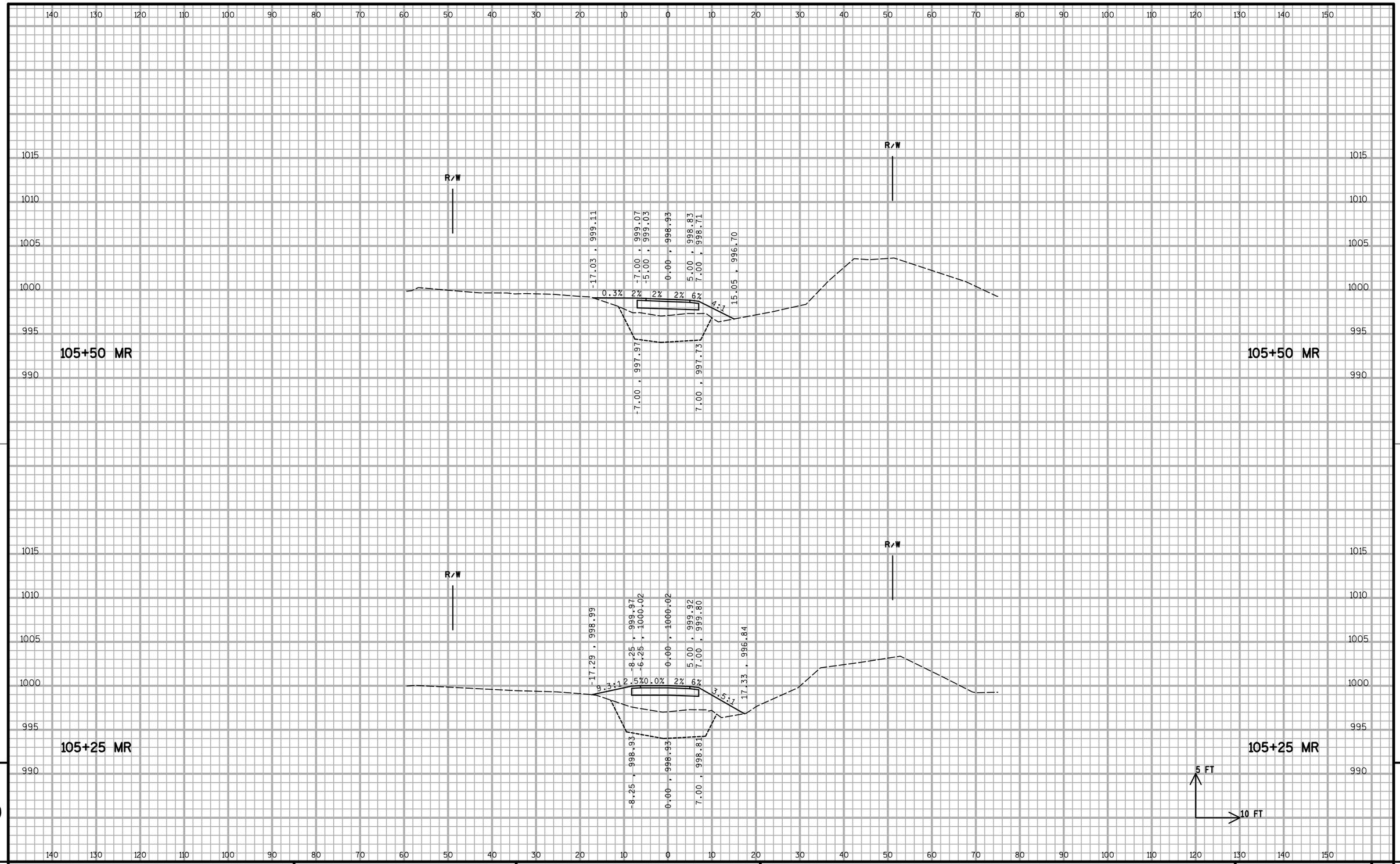


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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1514	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

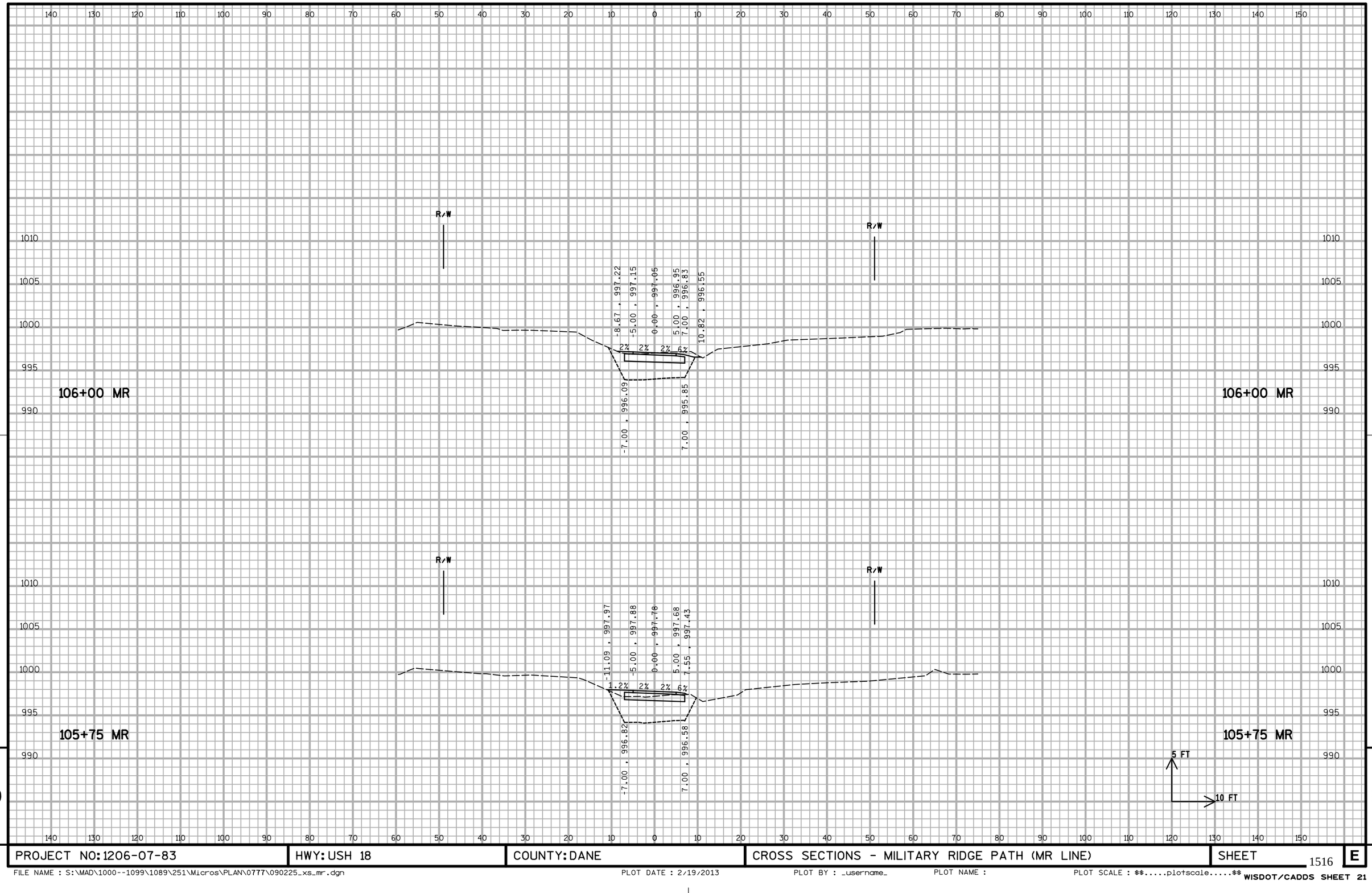


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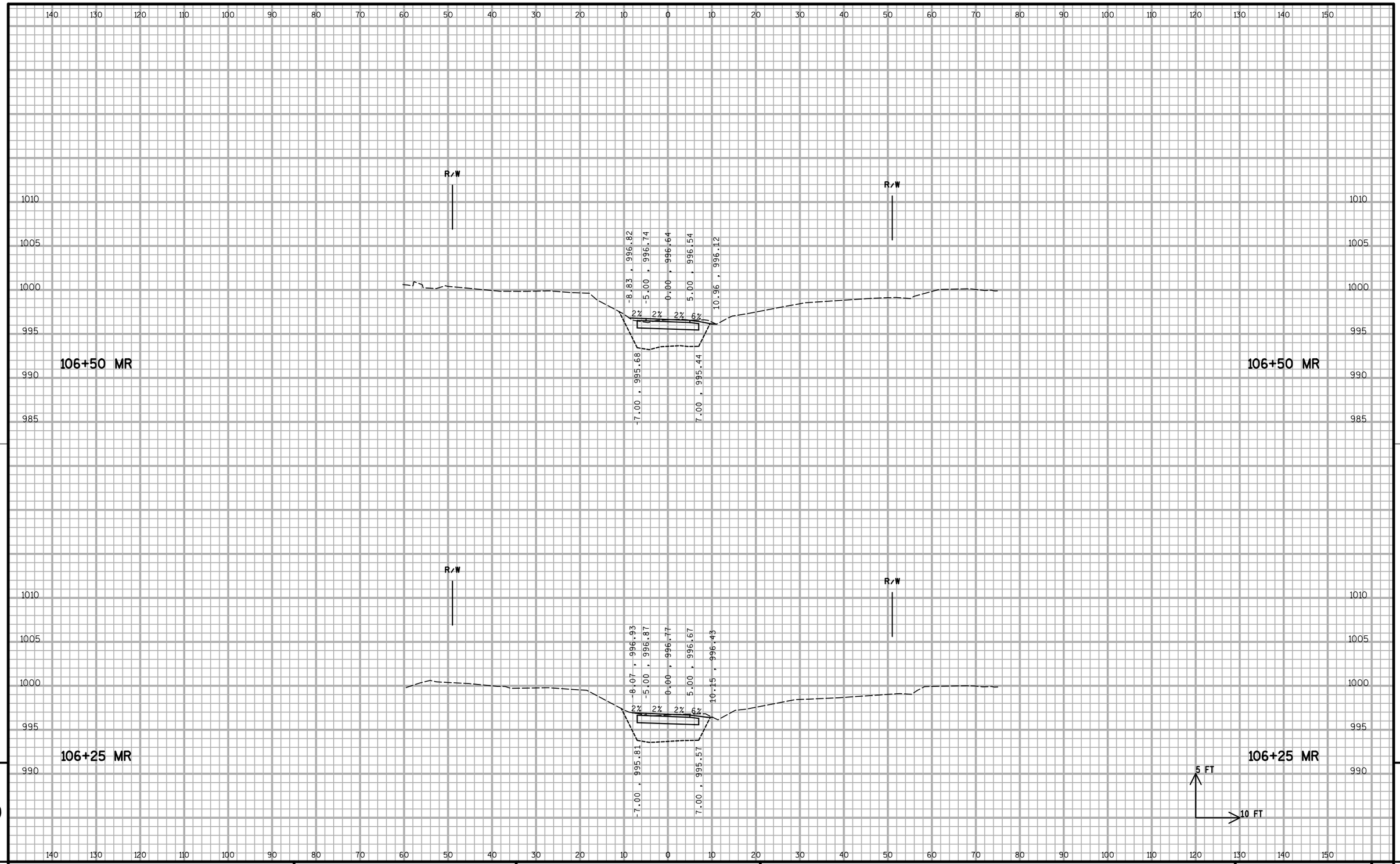
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1515	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1516	E

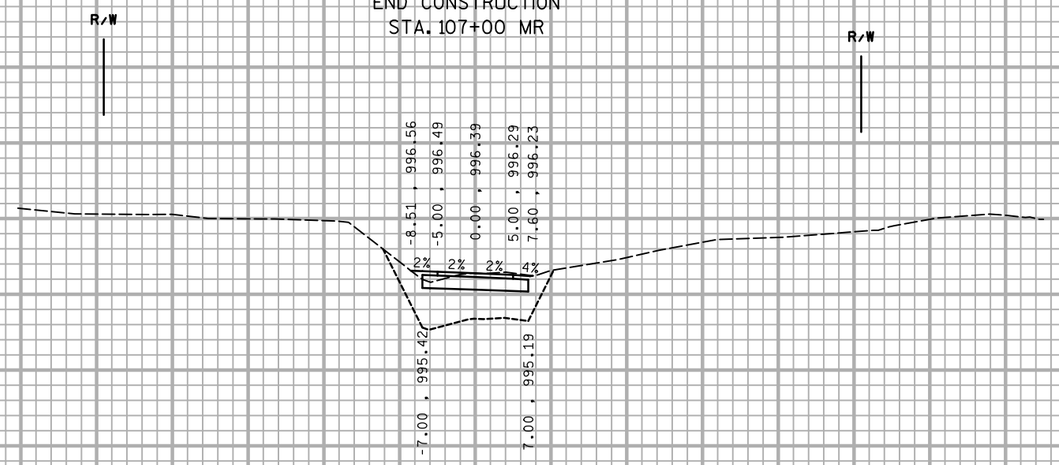
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1517	E

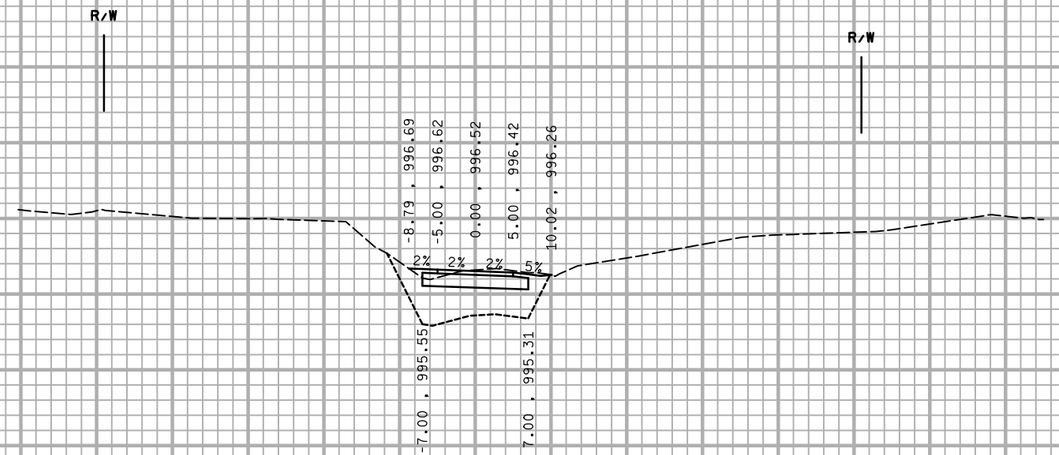
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END CONSTRUCTION
STA. 107+00 MR



107+00 MR

107+00 MR



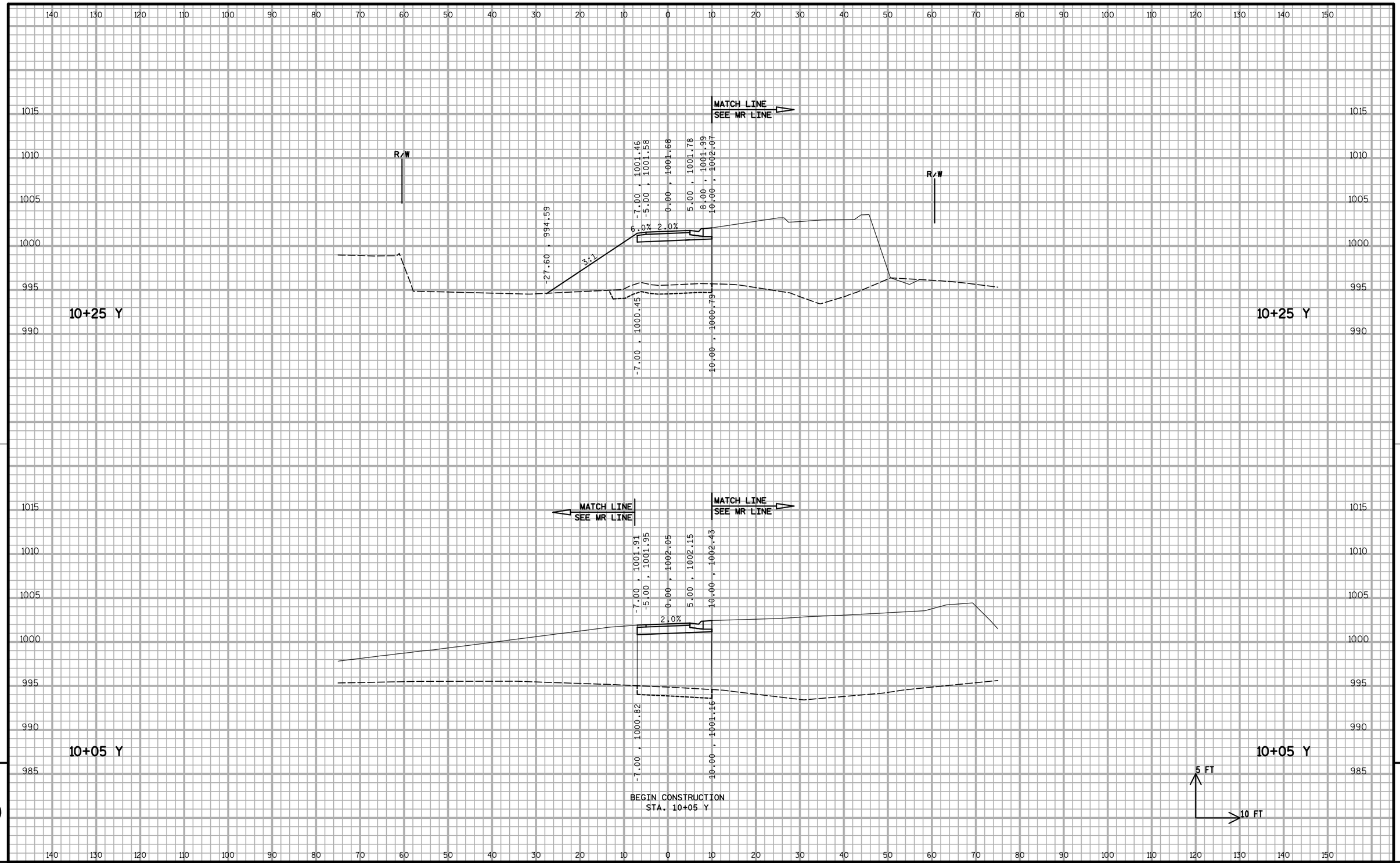
106+75 MR

106+75 MR

5 FT
10 FT

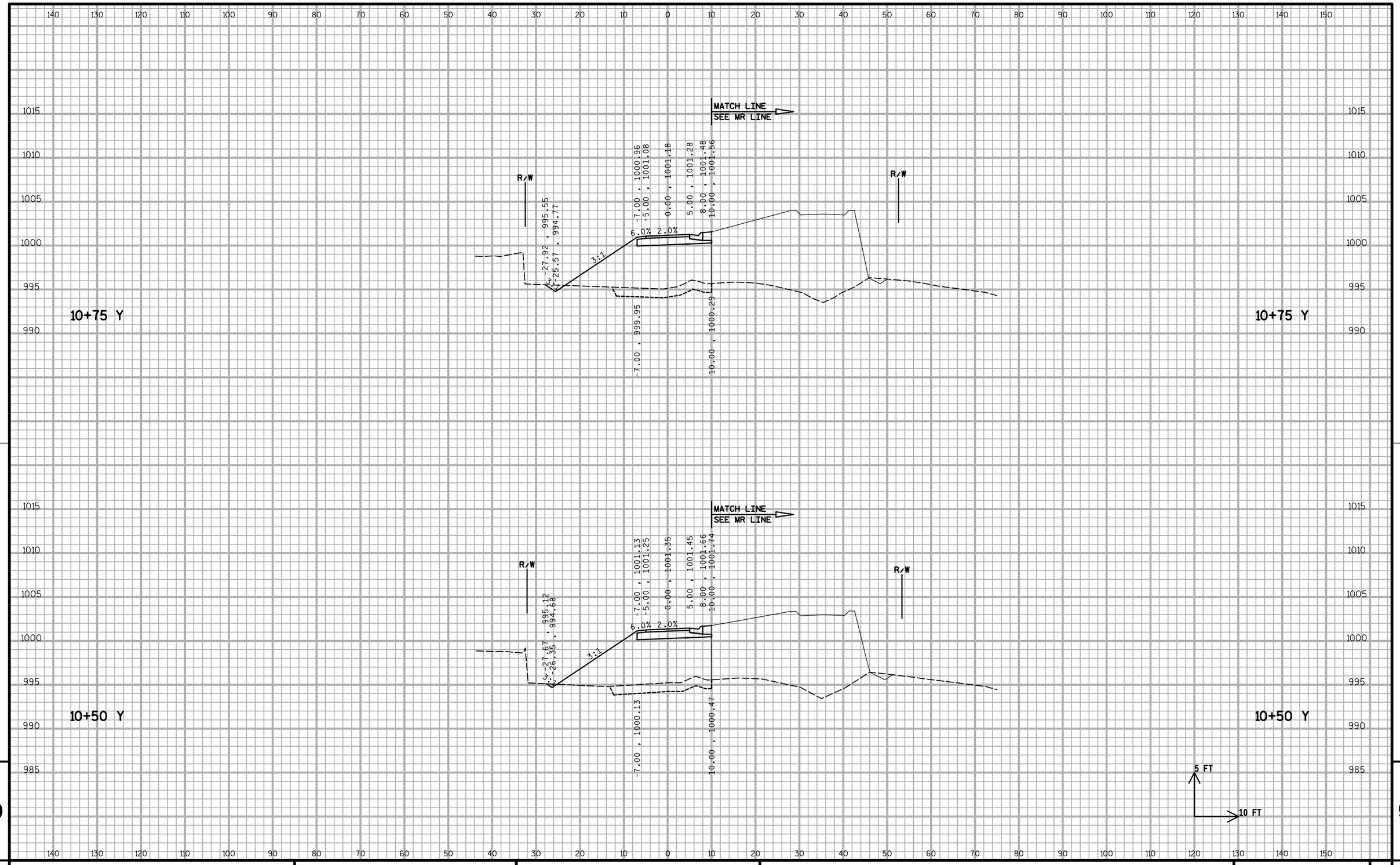
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - MILITARY RIDGE PATH (MR LINE)	SHEET 1518	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090225_xs_mr.dgn PLOT DATE : 2/19/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



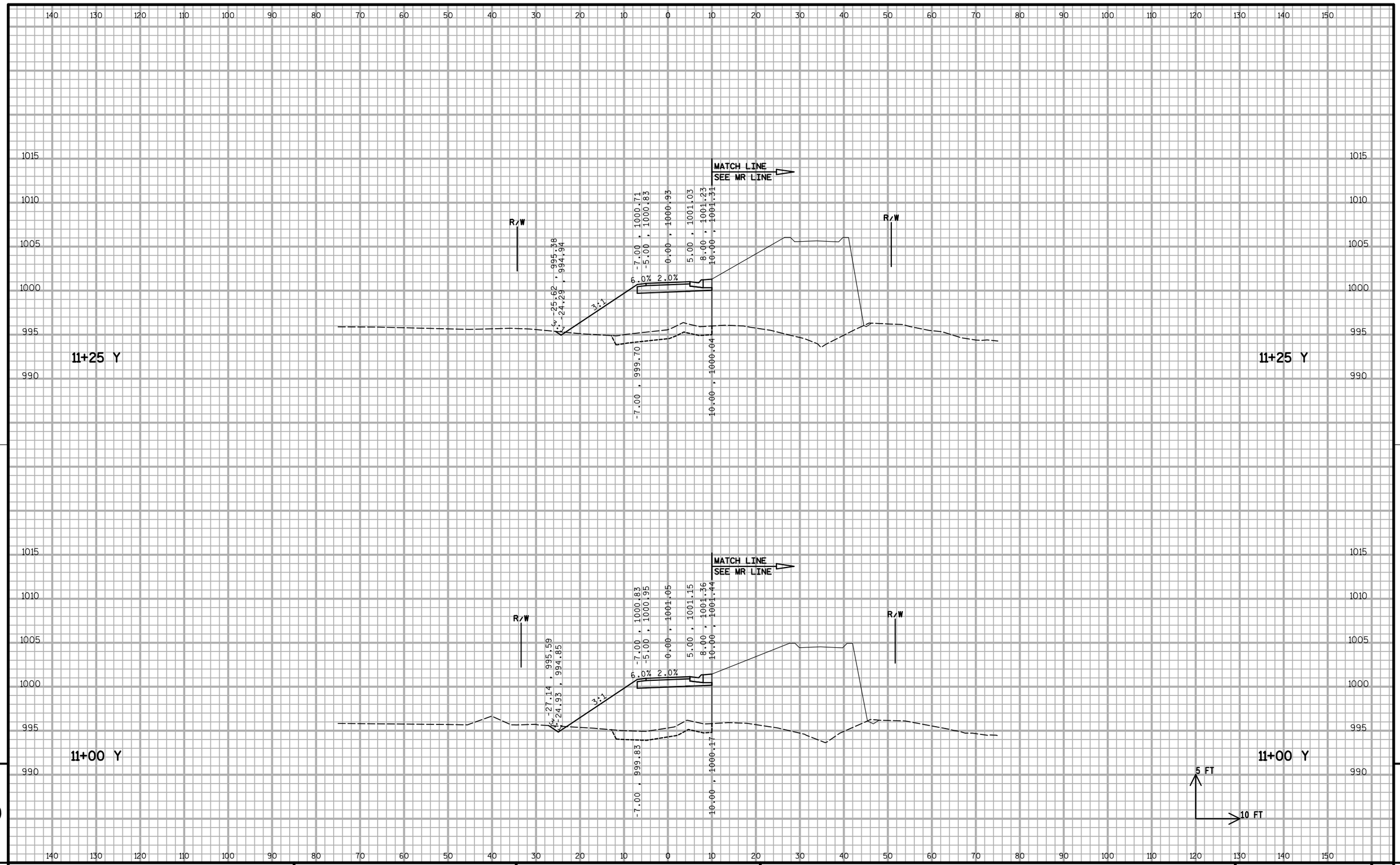
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SOUTH CONNECTION (Y LINE)	SHEET 1519	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090226_xs_y.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



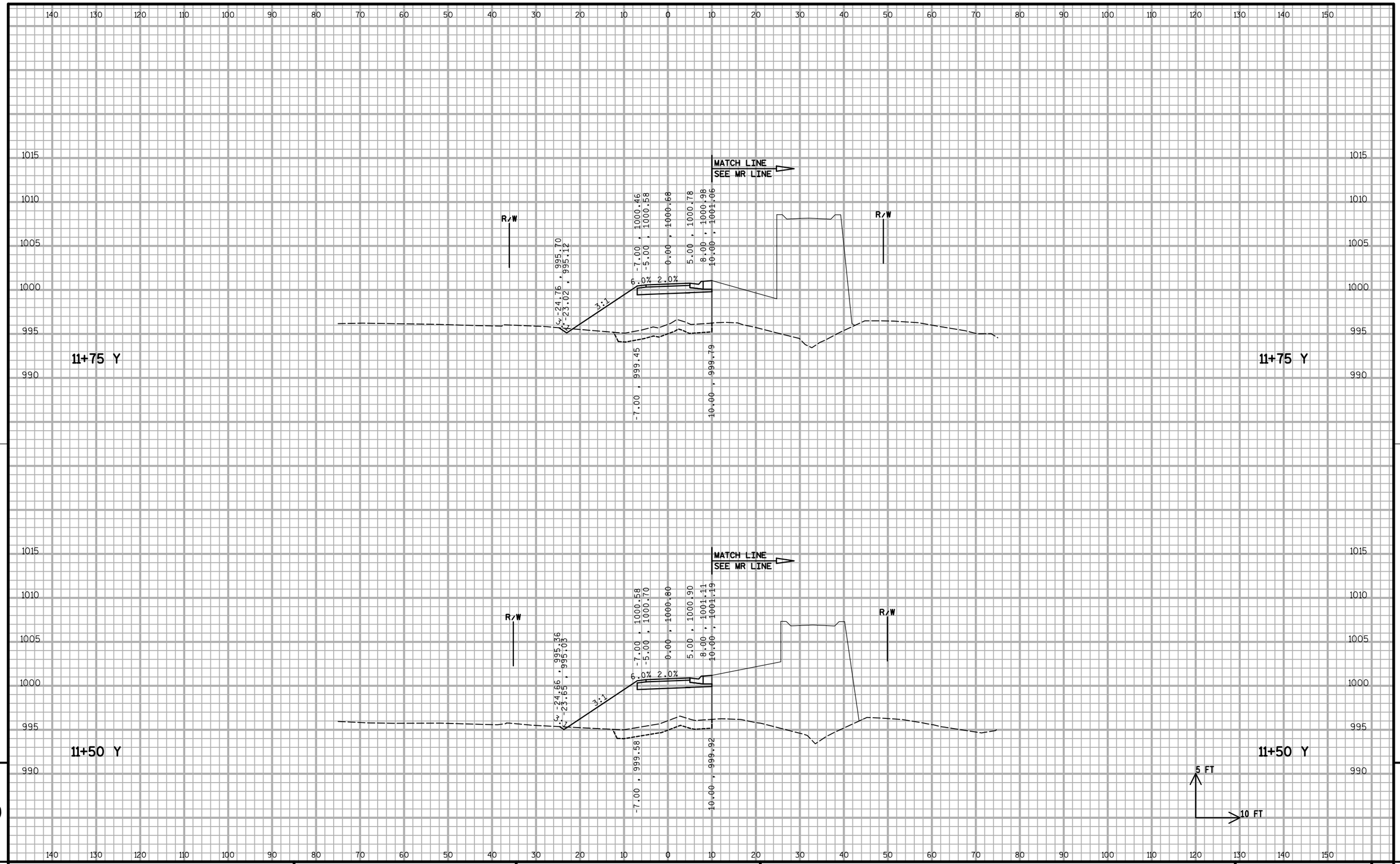
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SOUTH CONNECTION (Y LINE)	SHEET 1520	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090226_xs_y.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



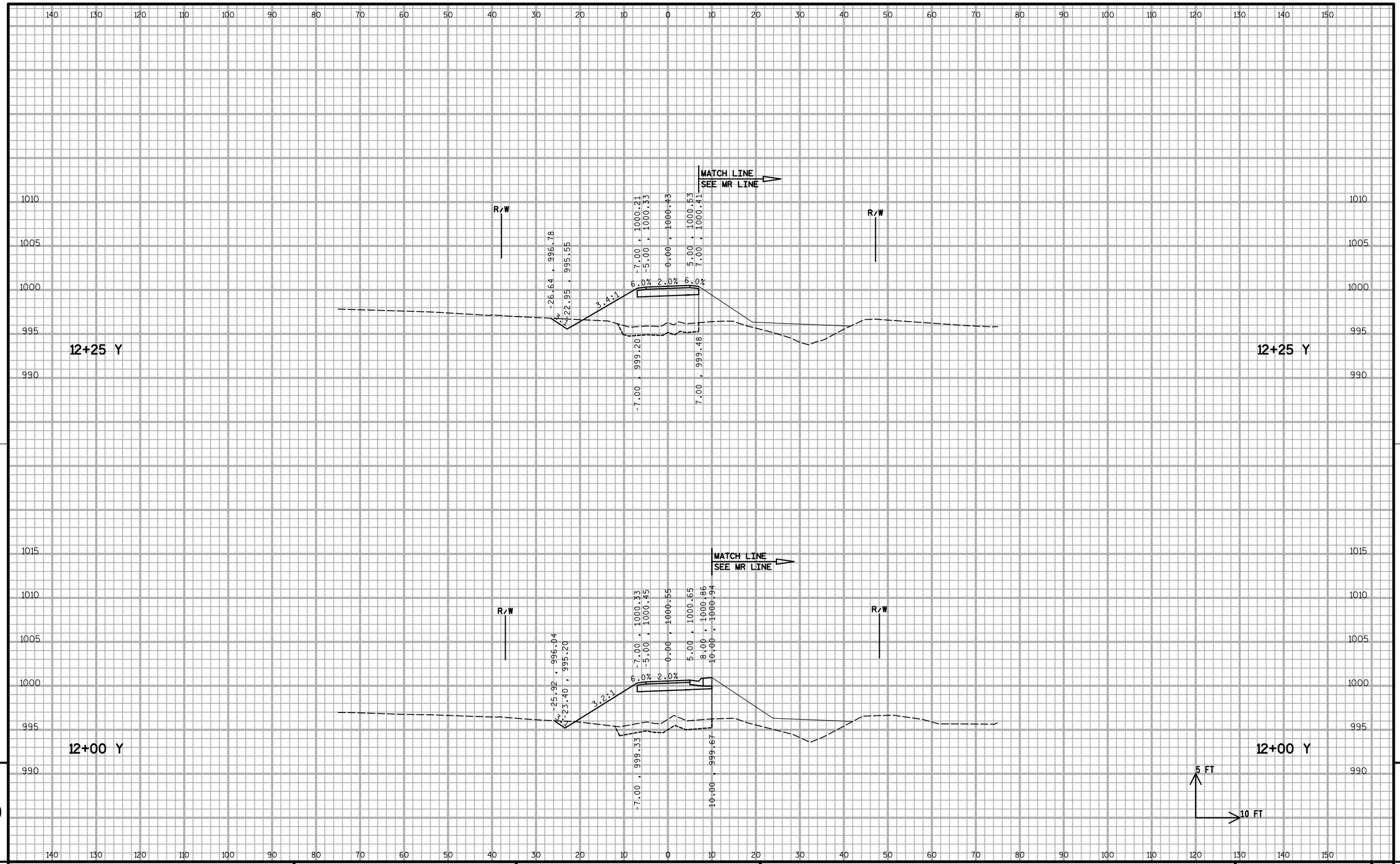
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SOUTH CONNECTION (Y LINE)	SHEET 1521	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090226_xs_y.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



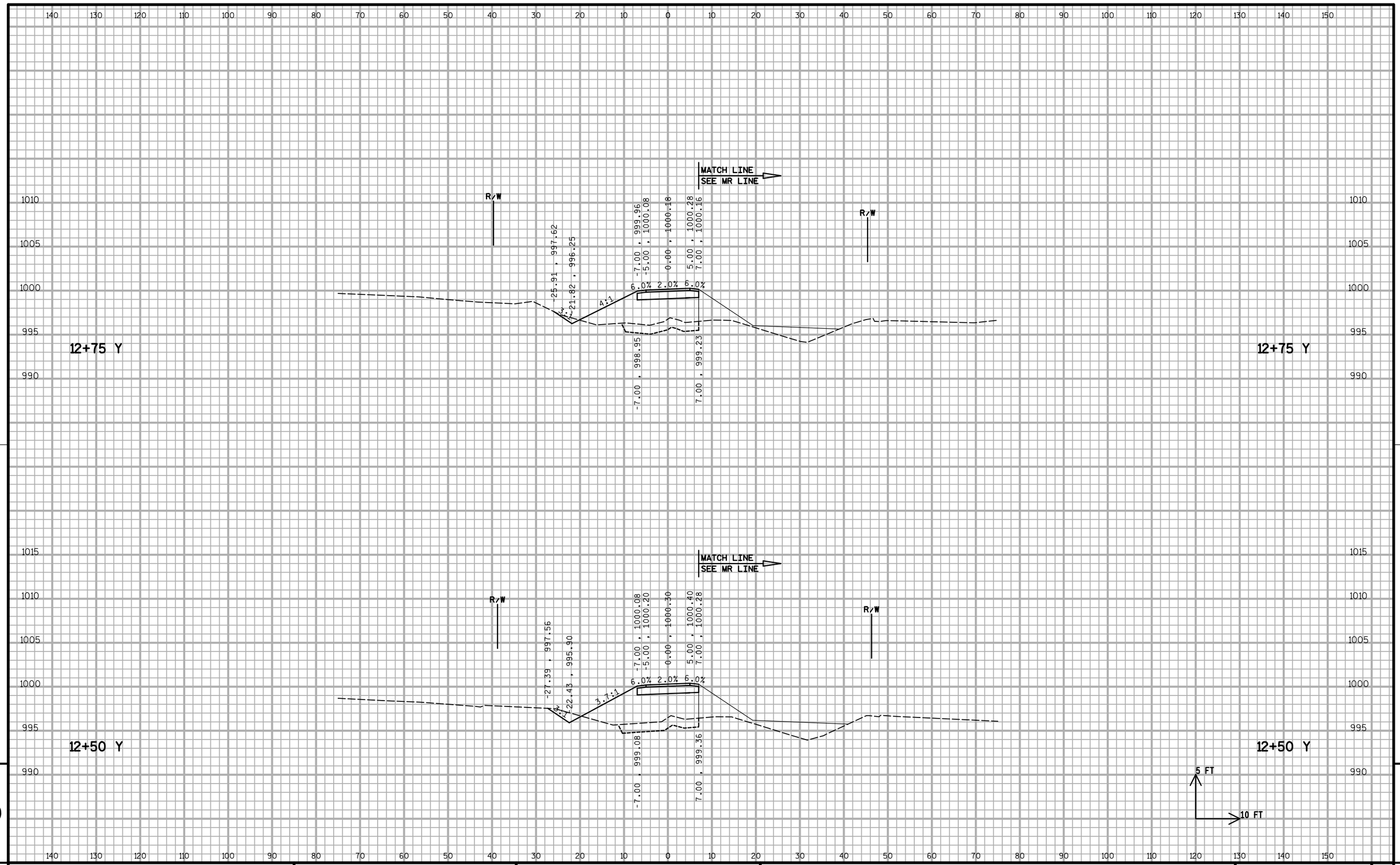
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SOUTH CONNECTION (Y LINE)	SHEET 1522	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090226_xs_y.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



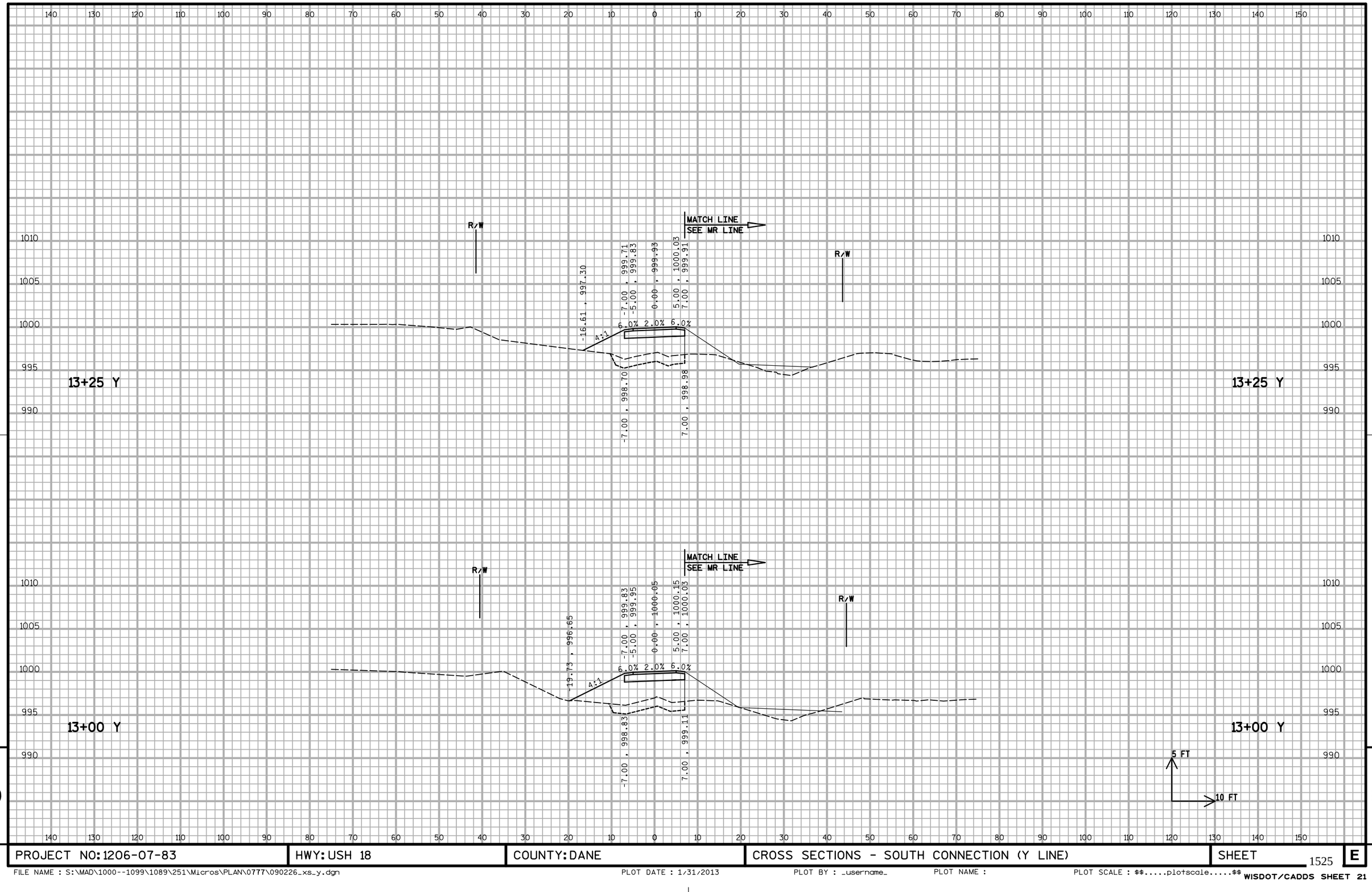
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SOUTH CONNECTION (Y LINE)	SHEET 1523	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090226_xs_y.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SOUTH CONNECTION (Y LINE)	SHEET 1524	E

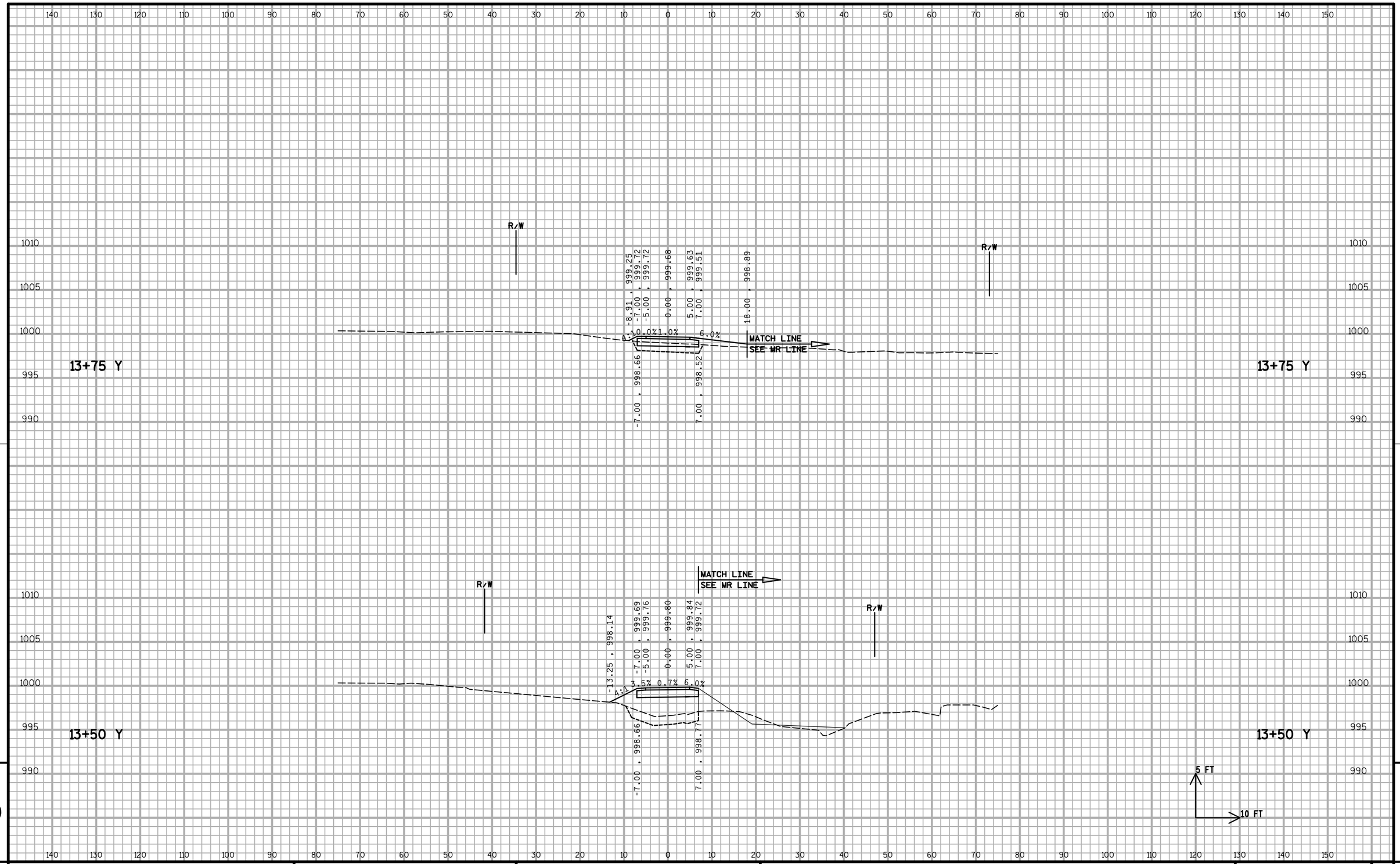
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SOUTH CONNECTION (Y LINE)	SHEET 1525	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090226_xs_y.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



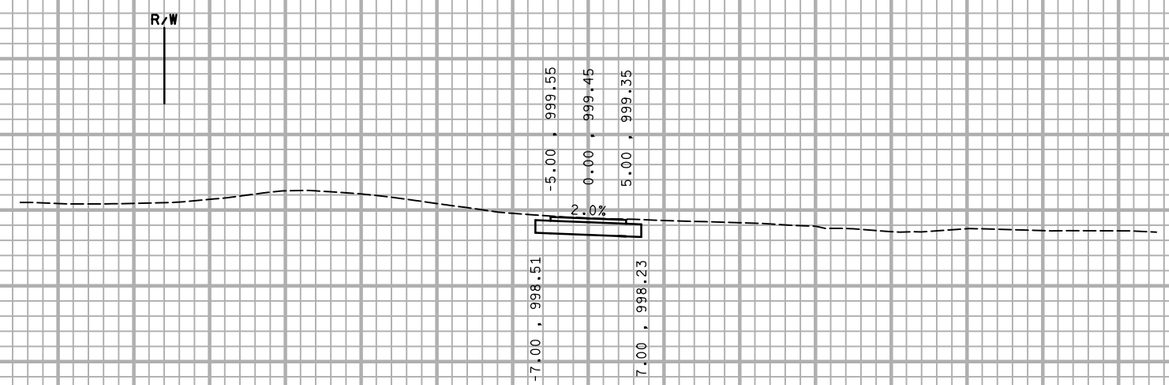
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SOUTH CONNECTION (Y LINE)	SHEET 1526	E

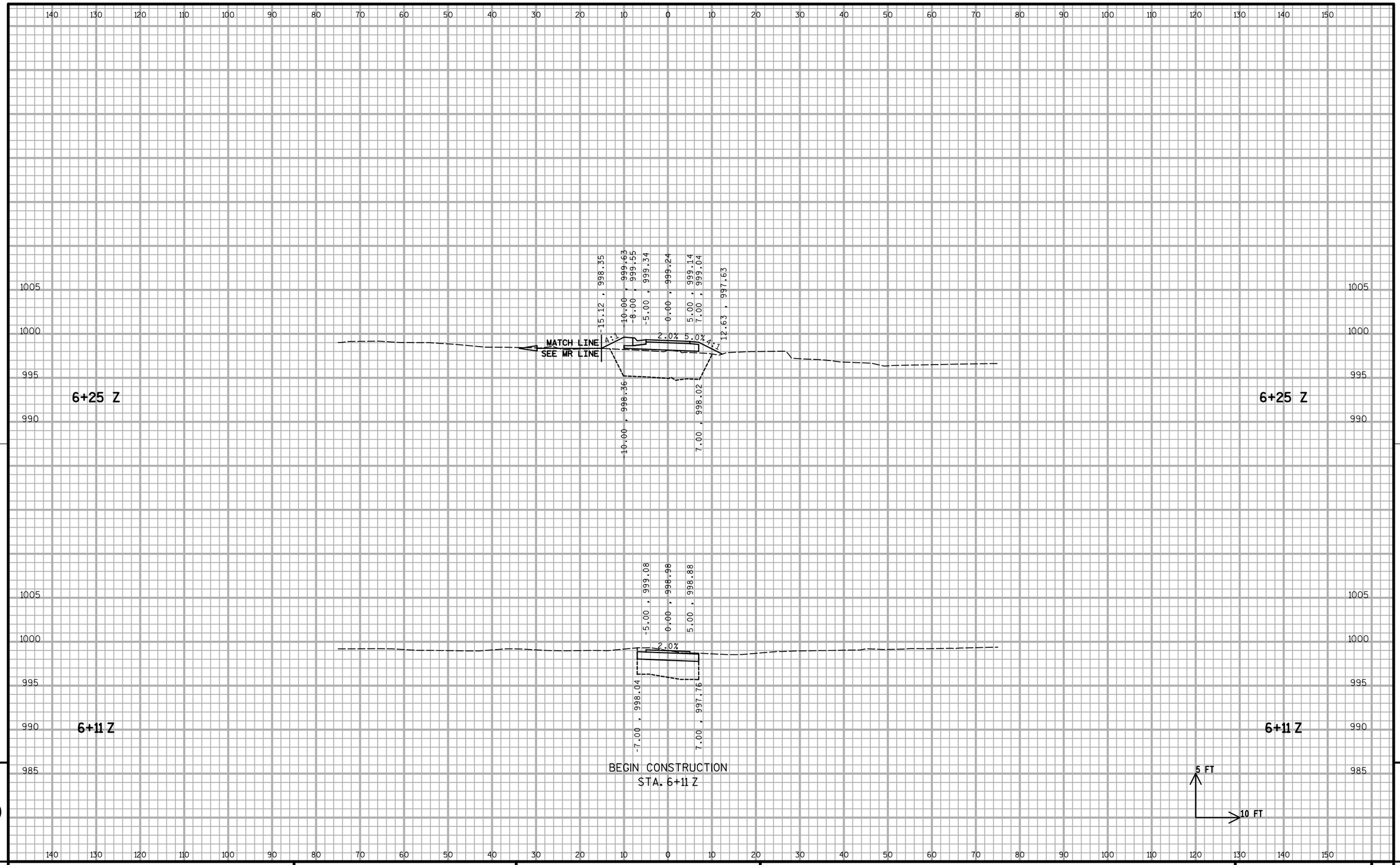
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END CONSTRUCTION
STA. 13+89 Y

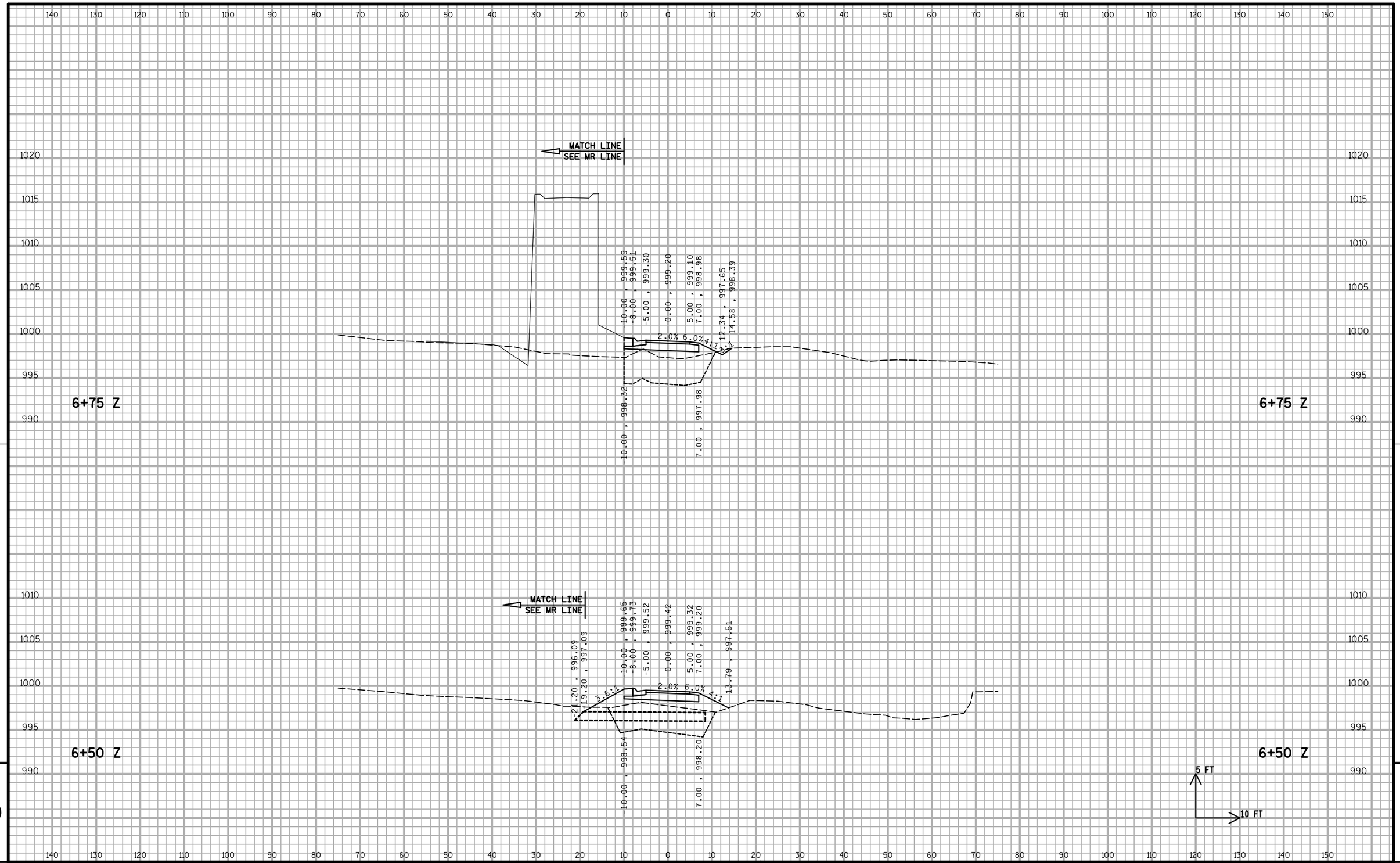


PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - SOUTH CONNECTION (Y LINE)	SHEET 1527	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090226_xs_y.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

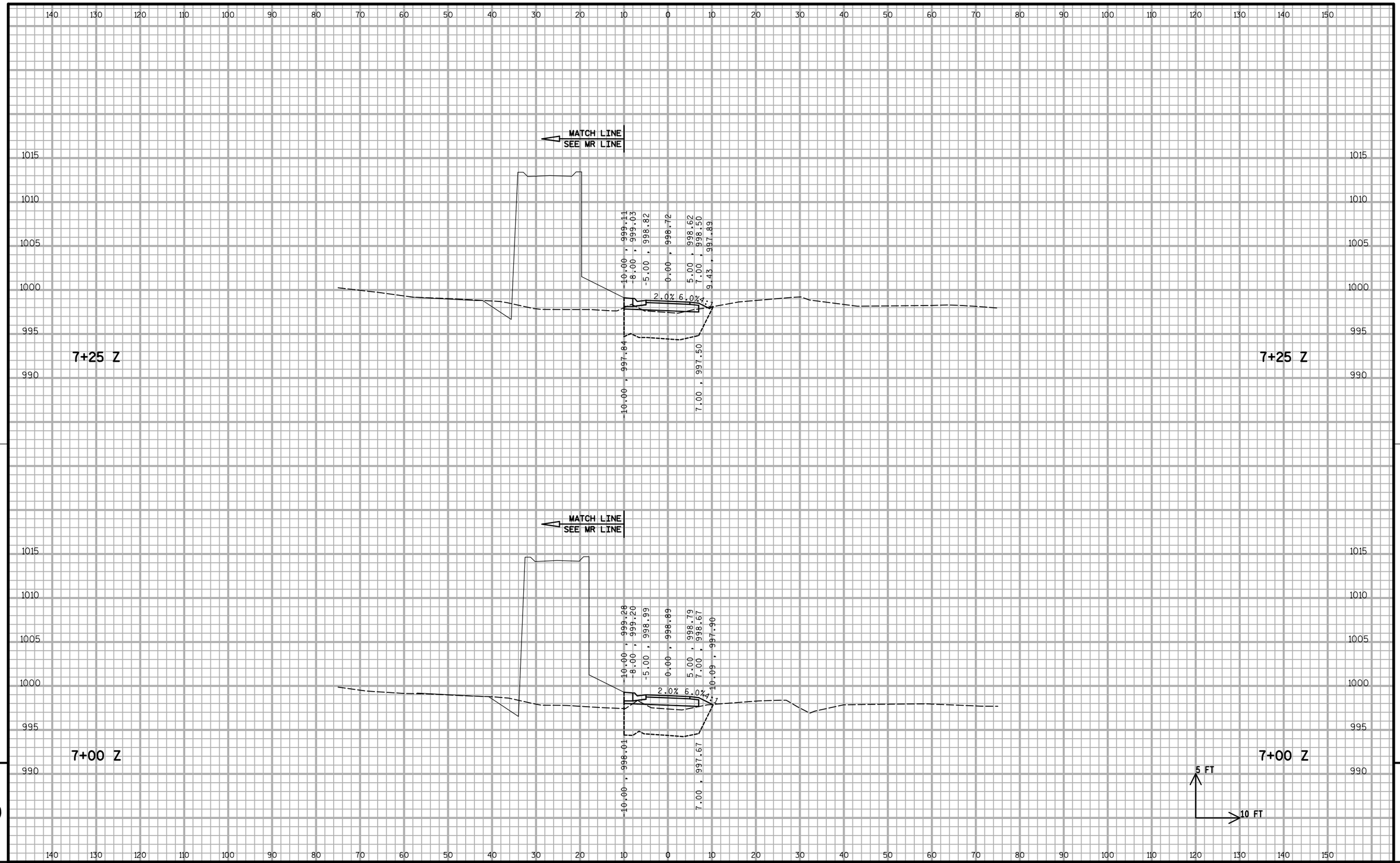


PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - NORTH CONNECTION (Z LINE)	SHEET 1528	E



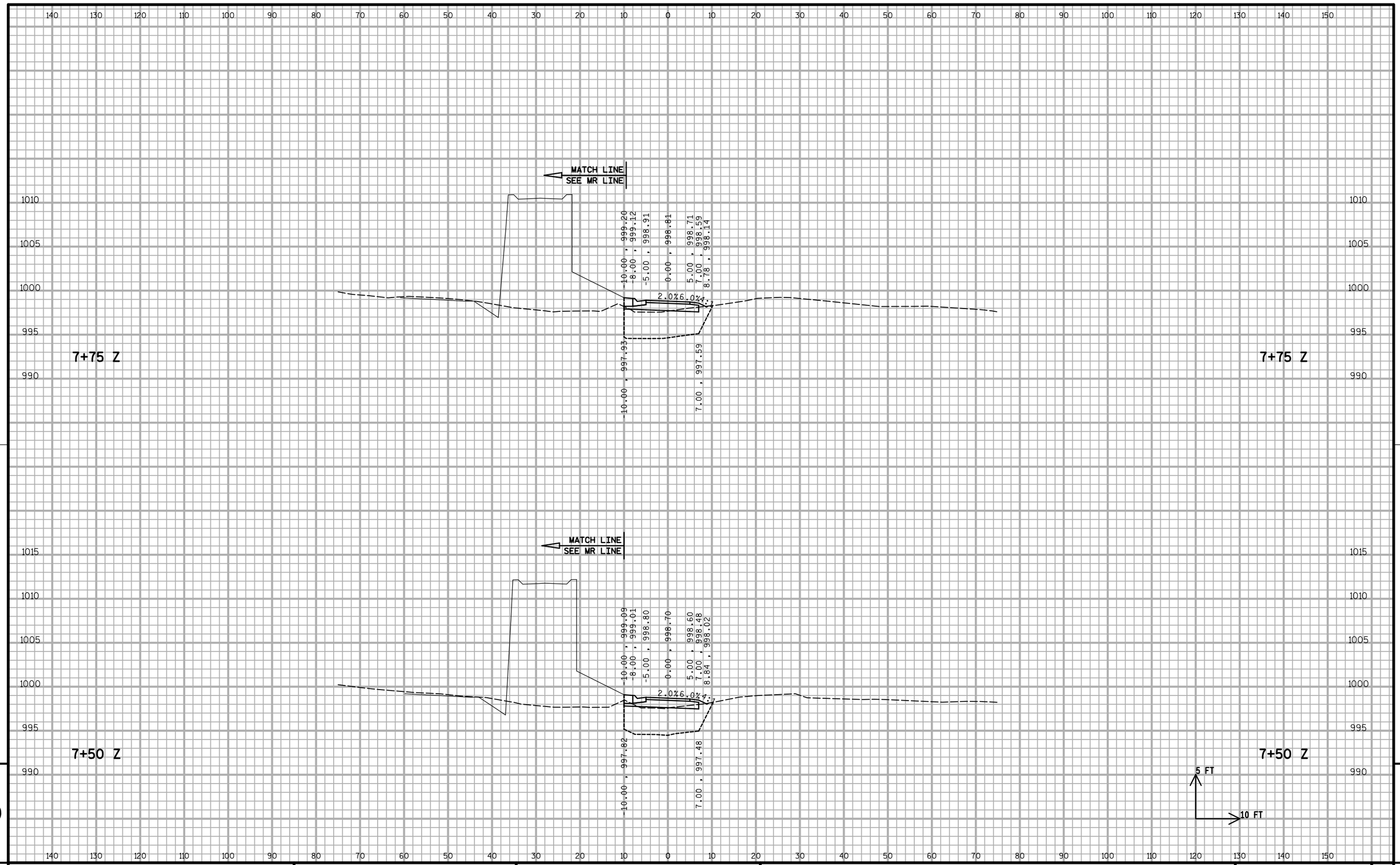
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - NORTH CONNECTION (Z LINE)	SHEET 1529	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090227_xs_z.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



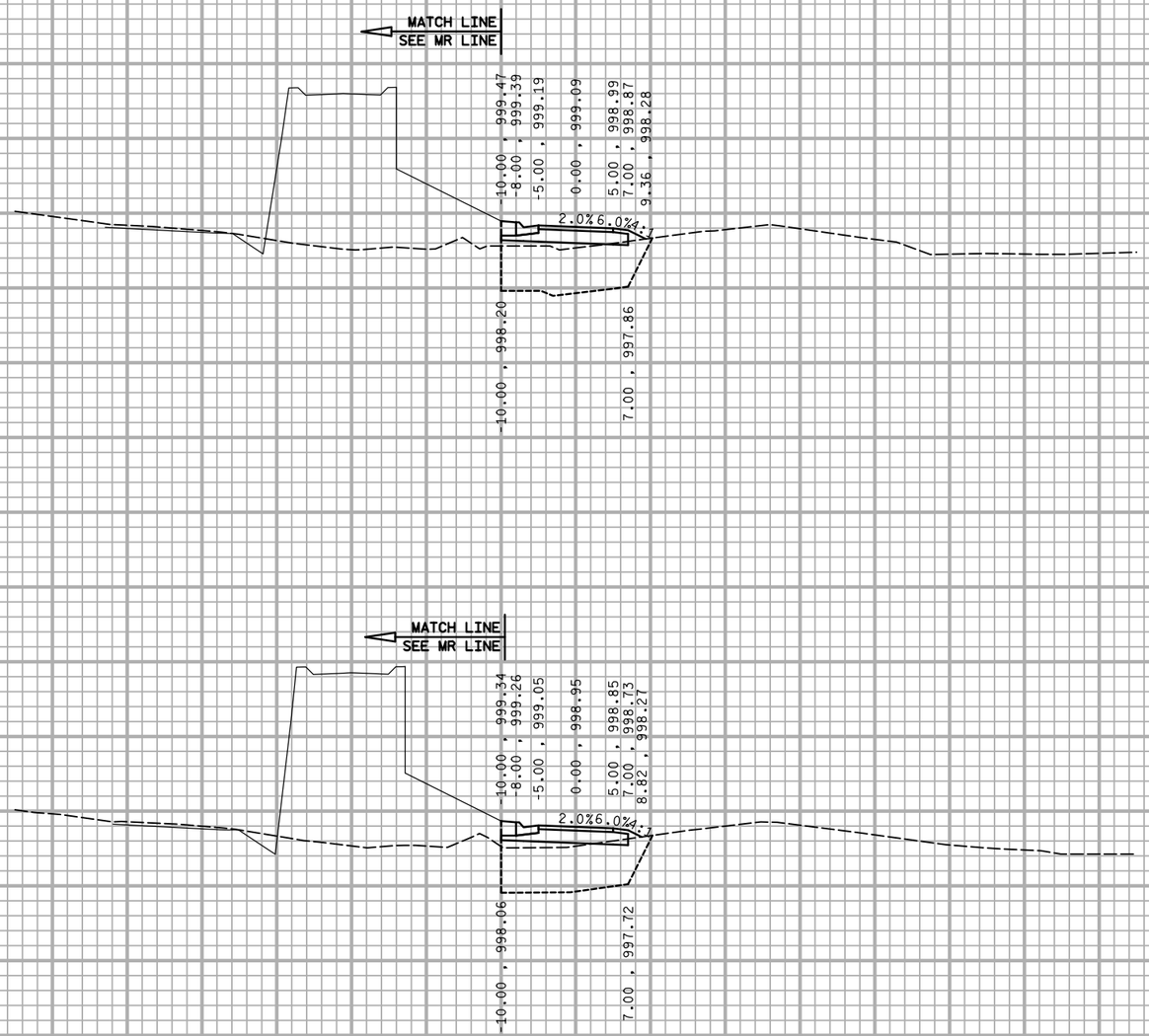
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - NORTH CONNECTION (Z LINE)	SHEET 1530	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090227_xs_z.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - NORTH CONNECTION (Z LINE)	SHEET 1531	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090227_xs_z.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



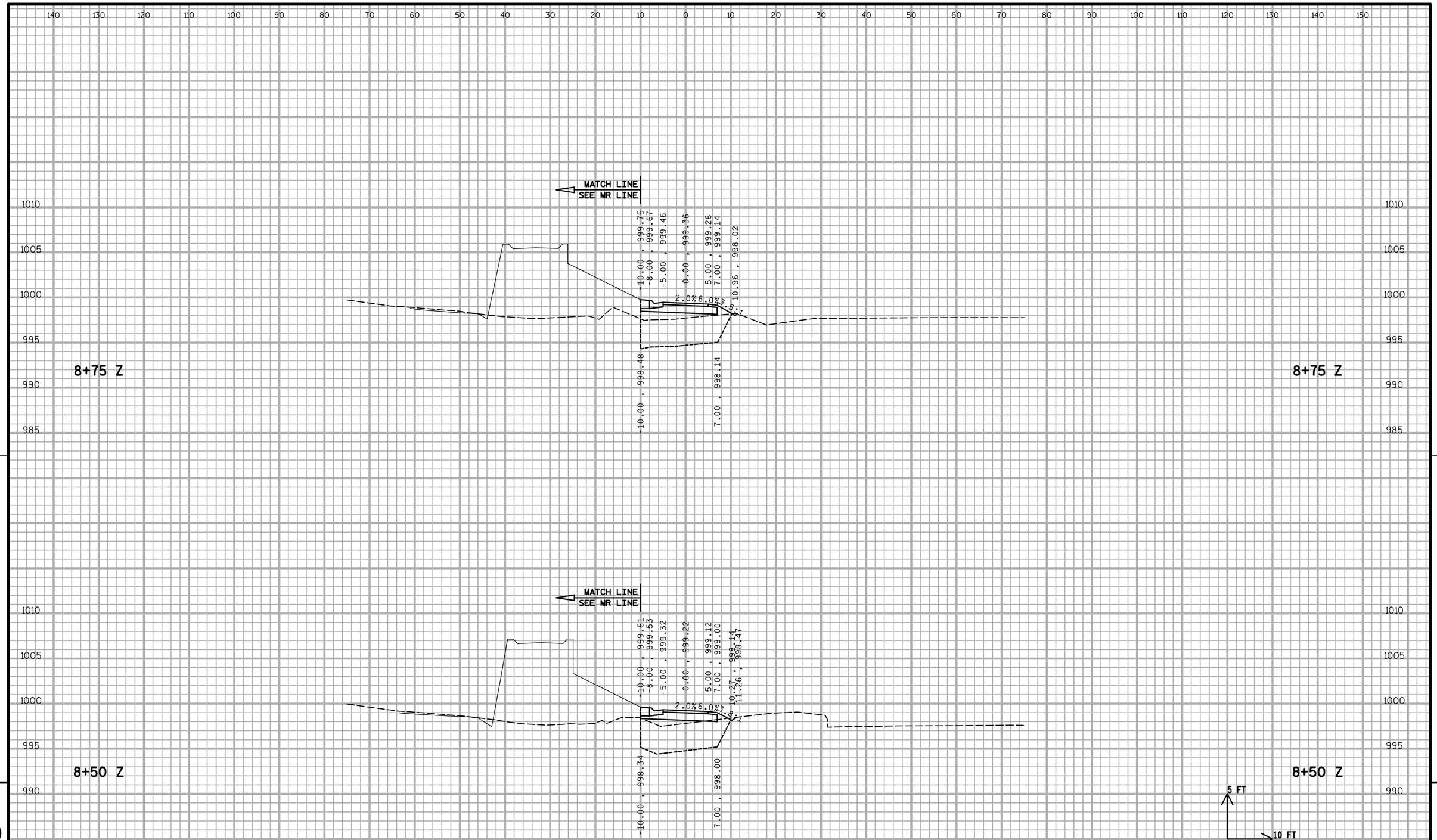
8+25 Z
8+00 Z

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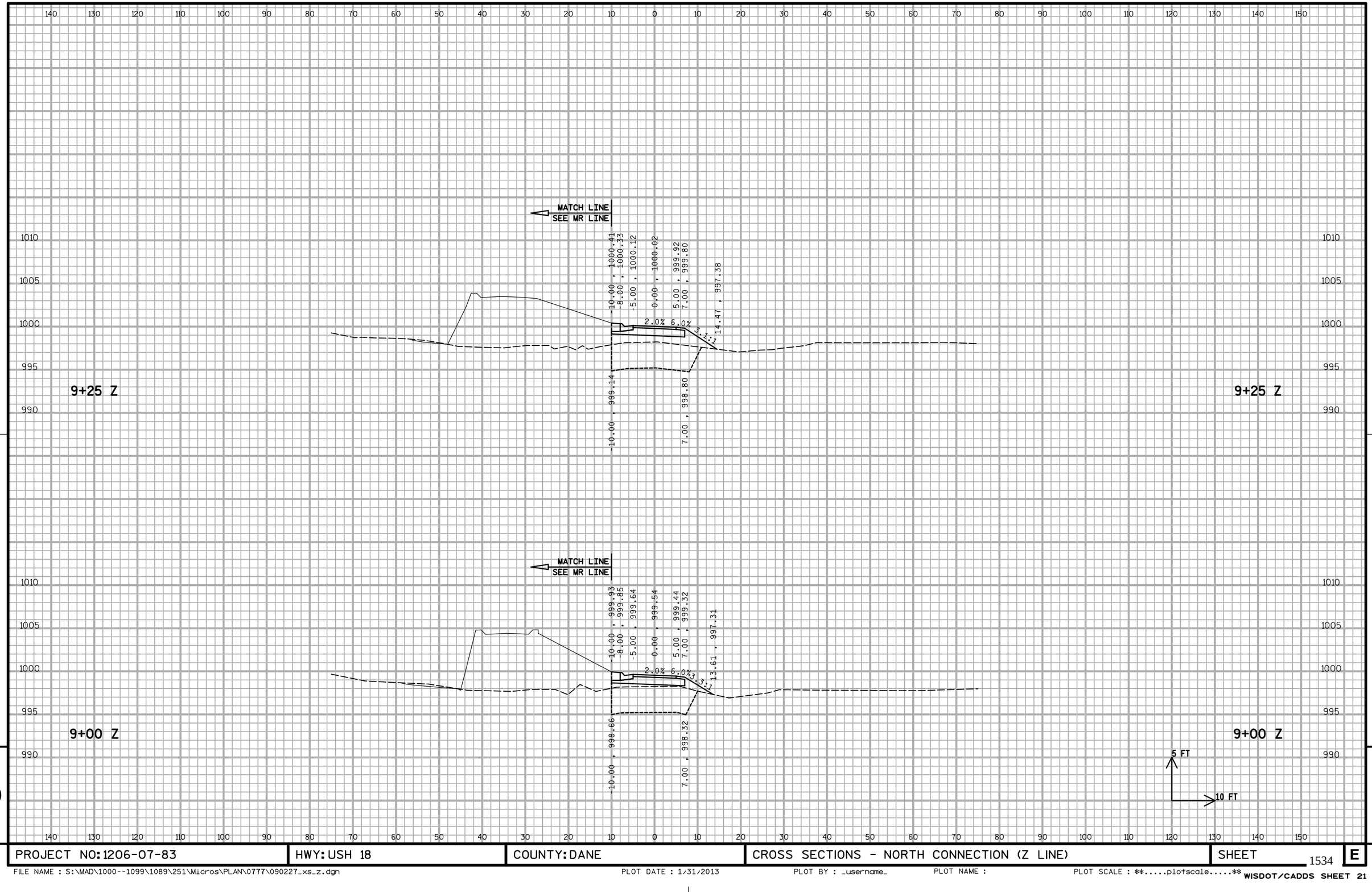
PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - NORTH CONNECTION (Z LINE)	SHEET 1532	E

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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - NORTH CONNECTION (Z LINE)	SHEET 1533	E

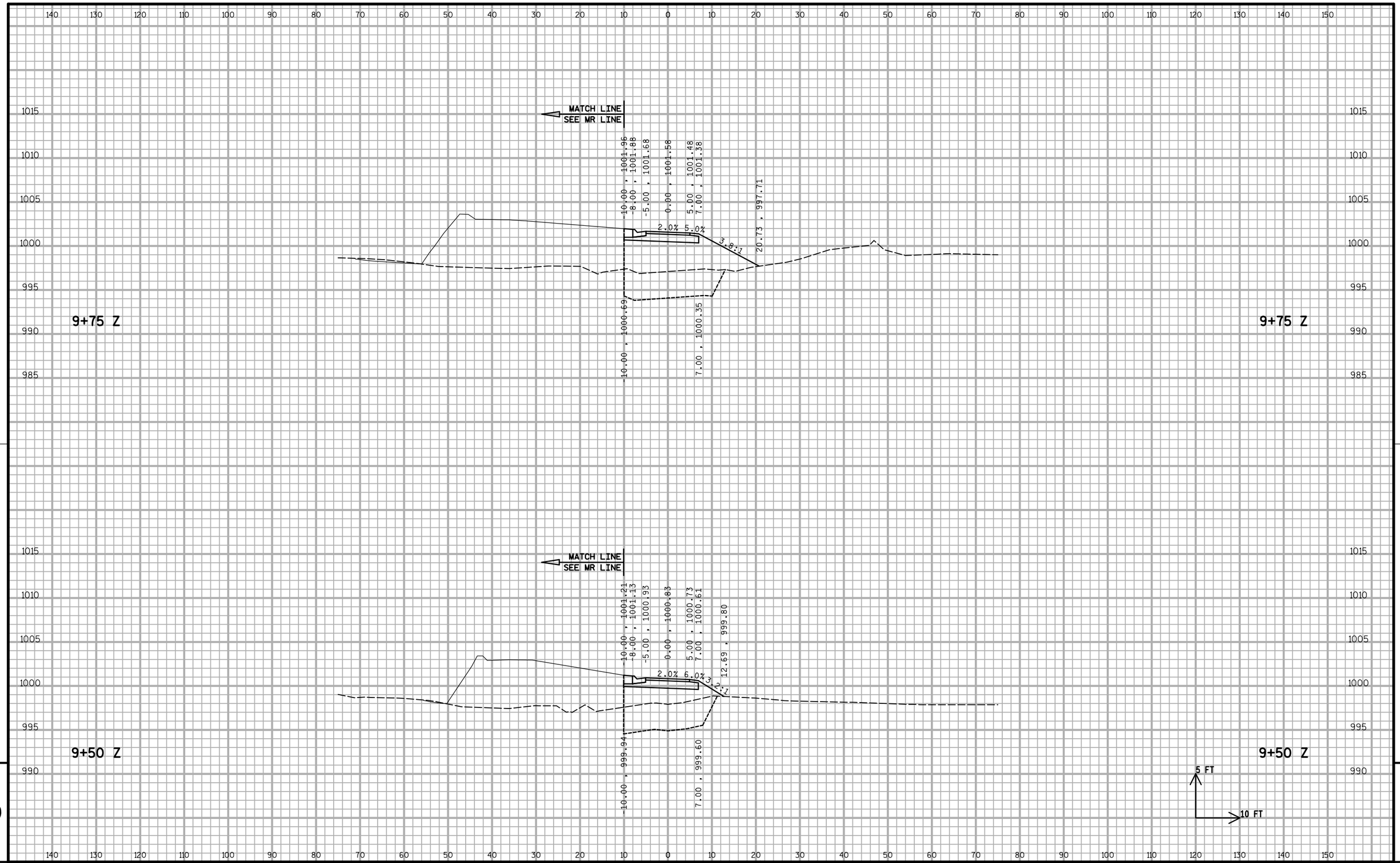
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - NORTH CONNECTION (Z LINE)	SHEET 1534	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090227_xs_z.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



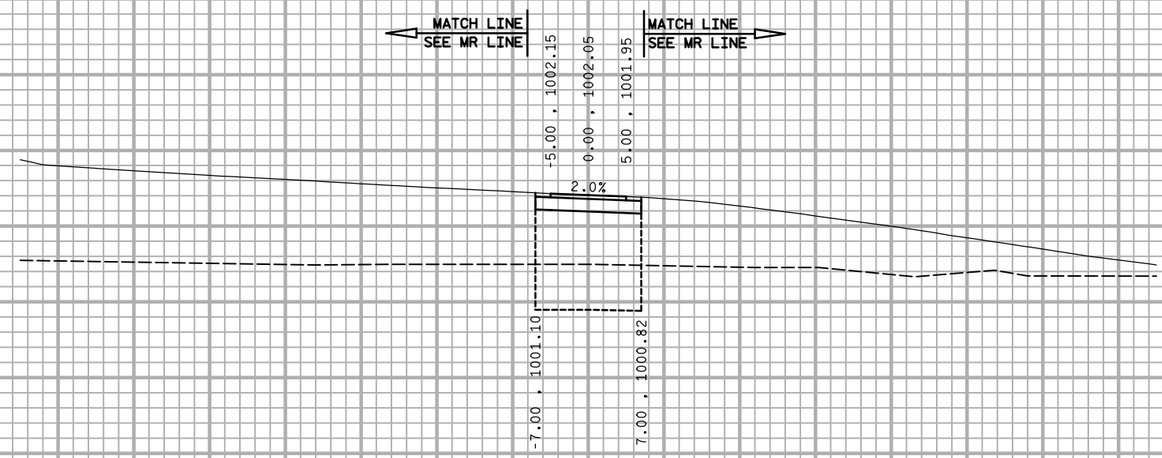
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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - NORTH CONNECTION (Z LINE)	SHEET 1535	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090227_xs_z.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

END CONSTRUCTION
STA. 9+95 Z



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PROJECT NO: 1206-07-83	HWY: USH 18	COUNTY: DANE	CROSS SECTIONS - NORTH CONNECTION (Z LINE)	SHEET 1536	E

FILE NAME : S:\MAD\1000--1099\1089\251\Micros\PLAN\0777\090227_xs_z.dgn PLOT DATE : 1/31/2013 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov