MAD APRIL 2015

PROJECT ID: 3070-00-73
WITH: N/A

COUNTY: DANE

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Inc. Erosion Control)
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 = 872



05

N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

IH 39 - COLUMBUS

FADNESS ROAD - LONDON ROAD

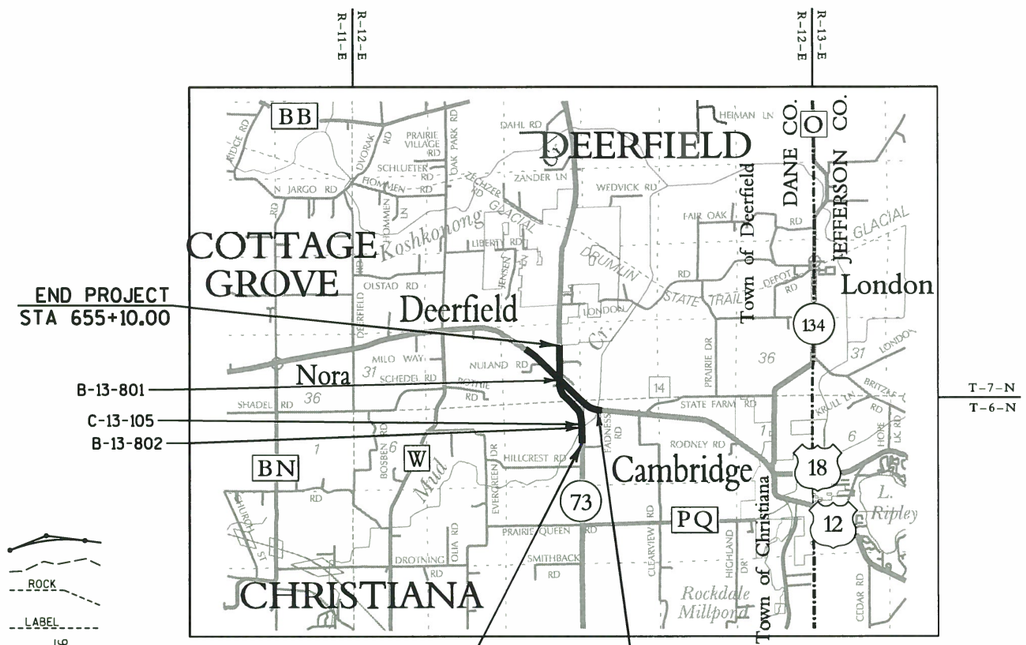
STH 73

DANE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
3070-00-73	WISC 2015176	1

STATE PROJECT NUMBER
3070-00-73

DESIGN DESIGNATION		STH 73	US 12/18
A.A.D.T. 2015	=	4400	12100
A.A.D.T. 2035	=	6400	14600
D.H.V. 2035	=	770	1630
D.D.	=	60/40	60/40
T.	=	13.5%	7.4%
DESIGN SPEED	=	60 MPH	60 MPH
ESALS	=	1,284,800	3,671,900



CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 1.342 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY, HORIZONTAL DATUM NAD 83, (2007) ALL DISTANCES ARE GROUND, ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD 1988 (2007).

ORIGINAL PLANS PREPARED BY
emcs inc
901 Deming Way, Suite 203
Madison, WI 53717
608.827.8810 Fax 608.833.3198

WISCONSIN PROFESSIONAL ENGINEER
CHRISTOPHER C. DRY E-42036-6 MADISON WI

10/27/14 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	DANE PARTNERS
Designer	EMCS, INC.
Project Manager	CRAIG PRINGLE
Regional Examiner	JIM BUSCHKOPF
Regional Supervisor	JOHN STEINER

APPROVED FOR THE DEPARTMENT
DATE: 10/29/14 (Signature)

E

2

GENERAL NOTES

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

THE LOCATIONS OF EXISTING 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 UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS.

PLACE EROSION CONTROL DEVICES IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER. EROSION CONTROL FEATURES IN PLAN ARE SHOWN AT APPROXIMATE LOCATIONS, WITH EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

PLACE SILT FENCE TWO FEET FROM THE SLOPE INTERCEPT LINE.

PLACE SALVAGED TOPSOIL IN ALL GRADED AREAS AS SHOWN ON THE PLANS OR AS DESIGNATED BY THE ENGINEER IMMEDIATELY AFTER GRADING HAS BEEN COMPLETED. APPLY SEED, FERTILIZER, MULCH AND EROSION MAT TO AREAS WITHIN 7 CALENDAR DAYS OF SALVAGED TOPSOIL PLACEMENT.

RESHAPING AND SEEDING OF ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE ENGINEER-DETERMINED CONSTRUCTION LIMITS ARE INCIDENTAL TO THE CONTRACT.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED AND TREATED AS SHOWN ON THE EROSION CONTROL PLANS OR AS DIRECTED BY THE ENGINEER.

BROKEN CONCRETE CONTAINING RE-BAR SHALL NOT BE USED AS MEDIUM OR HEAVY RIPRAP.

THE EXACT LOCATIONS OF DRIVEWAYS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED IN THE PLANS OR BY THE ENGINEER.

THE GEOTECHNICAL INVESTIGATION ASSOCIATED WITH THIS PROJECT RECOMMENDS AT LEAST 12 INCHES OF ADDITIONAL EXCAVATION IN AREAS DESIGNATED BY THE ENGINEER FOR EBS. ALL EBS AREAS ARE TO THE BACK FILLED WITH SELECT CRUSHED MATERIAL WHEN BACK FILLED BELOW THE WATER TABLE AND BACK FILLED WITH BACK FILL GRANULAR MATERIAL WHEN BACK FILLED ABOVE THE WATER TABLE.

CURB AND GUTTER GRADES ARE GIVEN AT THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE LINE.

THE CONTRACTOR SHALL PLACE ALL DETOUR AND TRAFFIC CONTROL SIGNS BEFORE BEGINNING ANY WORK ON THE ROADWAY. THESE SIGNS SHALL REMAIN IN PLACE UNTIL ALL WORK IS COMPLETED AND PERMANENT SIGNS AND PAVEMENT MARKING ARE INSTALLED.

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL EXISTING SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OPERATIONS REQUIRE THEIR REMOVAL OR UNLESS THE ENGINEER APPROVES THEIR REMOVAL.

PLACE CURB AND GUTTER PRIOR TO PLACING THE UPPER HMA PAVEMENT LAYER ON ALL ADJACENT TRAVEL LANES.

PLACE HMA PAVEMENT LAYERS WITH THE FOLLOWING THICKNESSES AND NOMINAL SIZES:

STH 73, JUG RAMP A AND JUG RAMP B HMA PAVEMENT TYPE E-3, 5.25-INCH
UPPER LAYER THICKNESS = 2-INCH (12.5 MM), AC MATERIAL = PG64-28
LOWER LAYER THICKNESS = 3.25-INCH (19.0 MM), AC MATERIAL = PG58-28

US 12/18 SHOULDERS HMA PAVEMENT TYPE E-3, 4-INCH
SINGLE LAYER THICKNESS = 4-INCH (12.5 MM)
AC MATERIAL = PG58-28

US 12/18 SHOULDERS HMA PAVEMENT TYPE E-3, 4.75-INCH
UPPER LAYER THICKNESS = 2-INCH (12.5 MM)
LOWER LAYER THICKNESS = 2.75-INCH (19.0 MM)
AC MATERIAL BOTH LAYERS = PG58-28

SIDEROADS HMA PAVEMENT TYPE E-0.3, 3.5-INCH
UPPER LAYER THICKNESS = 1.75-INCH (12.5 MM)
LOWER LAYER THICKNESS = 1.75-INCH (12.5 MM)
AC MATERIAL BOTH LAYERS = PG58-28

STH 73, JUG RAMP A AND JUG RAMP B WIDENING HMA PAVEMENT TYPE E-3, 4-INCH
SINGLE LAYER THICKNESS = 4-INCH (12.5 MM)
AC MATERIAL = PG58-28

US 12/18 SHOULDERS AND WIDENING HMA PAVEMENT TYPE E-3, 4.75-INCH
SINGLE LAYER THICKNESS = 4.75-INCH (19.0 MM)
AC MATERIAL = PG58-28

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
SINGLE LAYER THICKNESS = 3-INCH (12.5 MM)

STANDARD ABBREVIATIONS

AEW	APRON END WALL
AGG	AGGREGATE
AH	AHEAD
ASP	ASPHALTIC
BK	BACK
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L OR ℄	CENTER LINE
CP	CULVERT PIPE
CPCM	CULVERT PIPE CORRUGATED METAL
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CY	CUBIC YARD
D	DEGREE OF CURVE
△	DELTA
⌀	INTERSECTION ANGLE
EOP	EDGE OF PAVEMENT
FE	FIELD ENTRANCE
FS	FULL SUPERELEVATION
HMA	HOT MIX ASPHALT
IE	INVERT ELEVATION
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L OR ℞	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
REQ'D	REQUIRED
RD	ROAD
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RT	RIGHT
SALV	SALVAGED
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPERELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TYP	TYPICAL

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
ITS
PLAN DETAILS
CROSS SECTION MATCHLINE
EROSION CONTROL
STORM SEWER
PERMANENT SIGNING AND PAVEMENT MARKING
TRAFFIC CONTROL
DETOUR
ALIGNMENT DIAGRAM

OTHER CONTACTS

WISDOT DESIGN

CRAIG PRINGLE
WISCONSIN DEPARTMENT OF TRANSPORTATION
2101 WRIGHT ST 139 E
MADISON, WI 53704
(608) 884-7132
CRAIG.PRINGLE@DOT.WI.GOV

WISDOT CONSTRUCTION

JAMIE GRAINGER
WISCONSIN DEPARTMENT OF TRANSPORTATION
2101 WRIGHT ST 135 U
MADISON, WI 53704
(608) 884-1137
JAMIE.GRAINGER@DOT.WI.GOV

CONSULTANT DESIGN

CHRIS DRY
EMCS, INC.
901 DEMING WAY, WUITE 203
MADISON, WI 53717
(608) 827-8810
CDRY@EMCSINC.COM

DNR LIAISON

ERIC HEGGELUND
DEPARTMENT OF NATURAL RESOURCES
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
(608) 275-3301
ERIC.HEGGELUND@WISCONSIN.GOV

TOWN OF CHRISTIANA

SANDY EVERSON (CLERK)
773 KOSHKONONG RD
CAMBRIDGE, WI 53523
(608) 423-3816
SEVERSON@TWP.CHRISTIANA.WI.US

TOWN OF DEERFIELD

KIMBERLY GROB (CLERK)
1502 OLSTAD ROAD
DEERFILED, WI 53531
(608) 764-2608

UTILITY CONTACTS

ALLIANT ENERGY

(ELECTRIC)
JASON HOGAN
4902 N. BILTMORE LANE
MADISON, WI 53718
OFFICE - (608) 458-4871
MOBILE - (608) 395-7395
JASONHOGAN@ALLIANTENERGY.COM

ALLIANT ENERGY

(GAS)
KEVIN DOYLE
935 WBR TOWNLINE RD
BELOIT, WI 53511
OFFICE - (608) 364-6543
MOBILE - (608) 751-2294
KEVINDOYLE@ALLIANTENERGY.COM

CHARTER COMMUNICATIONS

(COMMUNICATIONS)
DAVID MOLDENHAUER
1348 PLAINFIELD AVE
JANESVILLE, WI 53545
OFFICE - (608) 373-7538
MOBILE - (608) 206-0494
DAVID.MOLDENHAUER@CHARTERCOM.COM

FRONTIER COMMUNICATIONS OF WILLC

(TELECOMMUNICATIONS)
BRIAN VAN OOYN
451 BROADWAY DRIVE
SUN PRAIRIE, WI 53590
OFFICE - (608) 837-1151
MOBILE - (608) 509-5051

WE ENERGIES

(ELECTRIC DISTRIBUTION)
BRYAN STOEHR
500 S 116TH STREET
WEST ALLIS, WI 53214
OFFICE - (414) 944-5516
MOBILE - (414) 416-6059
BRYAN.STOEHR@WE-ENERGIES.COM

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

2

2

TOWN OF DEERFIELD
TOWN OF CHRISTIANA

N

NULAND RD

630'BE'

640'BE'

650'BE'

660'BE'

USH 12/18

910'EN'

STH 73

920'EN'

930'EN'

SHAUL LN

670'BE'

HAUGE CEMETERY

810'E'

680'BE'

690'BE'

700'BE'

EXISTING BOX CULVERT C-13-105

EXISTING BOX CULVERT B-13-359

DRAINAGE DITCH

590'ES'

600'ES'

STH 73

FADNESS RD

MUD CREEK

EXISTING BOX CULVERT B-13-358

FADNESS RD

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PROJECT OVERVIEW - EXISTING CONDITIONS	SHEET 3	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\020201_po.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:600

WISDOT/CADDS SHEET 42

2

TOWN OF DEERFIELD
TOWN OF CHRISTIANA

BEGIN
CONSTRUCTION
STA 628+50'B'

630'B'

N

5+50'NU'
NULAND RD

640'B'

PROPOSED STRUCTURE
OVER STH 73 B-13-801

650'B'

JUG RAMP B

USH 12/18

660'B'

620
630
640
STH 73
650
660

END PROJECT
STA 655+10.00

PROPOSED
INFILTRATION
BASIN

670'B'

310'SH'

EXTEND BOX CULVERT
C-13-105

PROPOSED STH 73 RE-ALIGNMENT

REPLACE BOX CULVERT
B-13-359 WITH
B-13-802

690

JUG
RAMP A

HAUGE
CEMETERY

SHAUL LN

320'SH'

BEGIN PROJECT
STA 584+25.00

DRAINAGE DITCH

680'B'

600

570
STH 73
580
590

330'SH'

EXISTING STH 73

FADNESS RD

MUD CREEK

699'B'

EXTEND BOX CULVERT
B-13-358

5+00'FD'

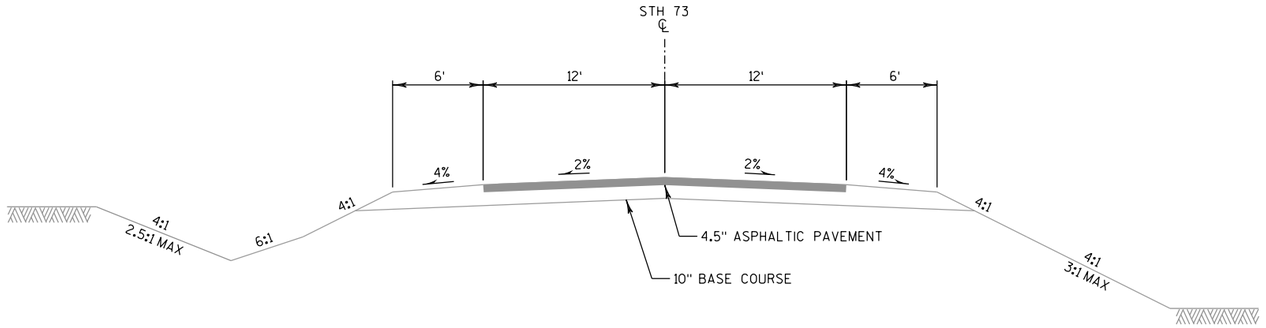
FADNESS RD

700'B'

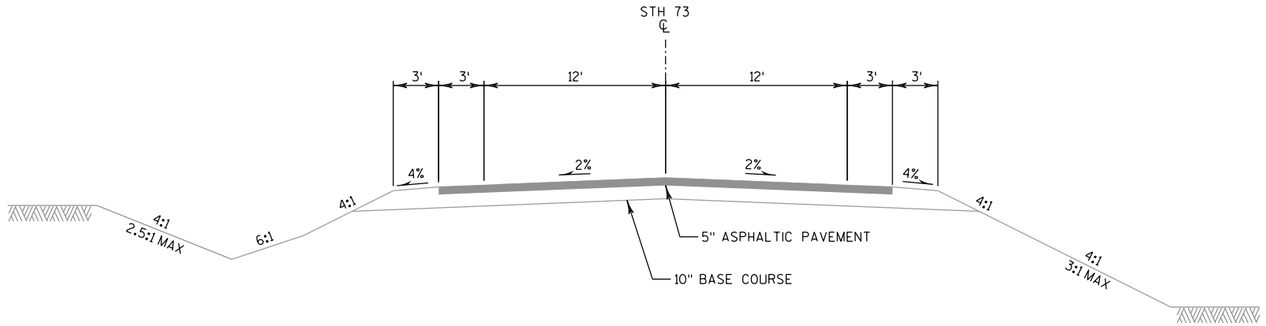
END
CONSTRUCTION
STA 702+00'B'

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PROJECT OVERVIEW	SHEET 4	E

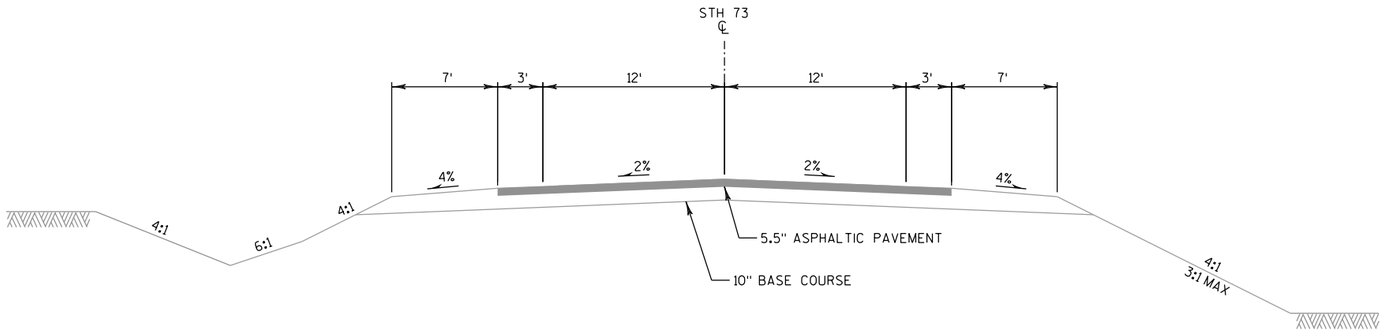
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TYPICAL EXISTING SECTION
STH 73
STA 584+25 - 400' SOUTH OF USH 12/18

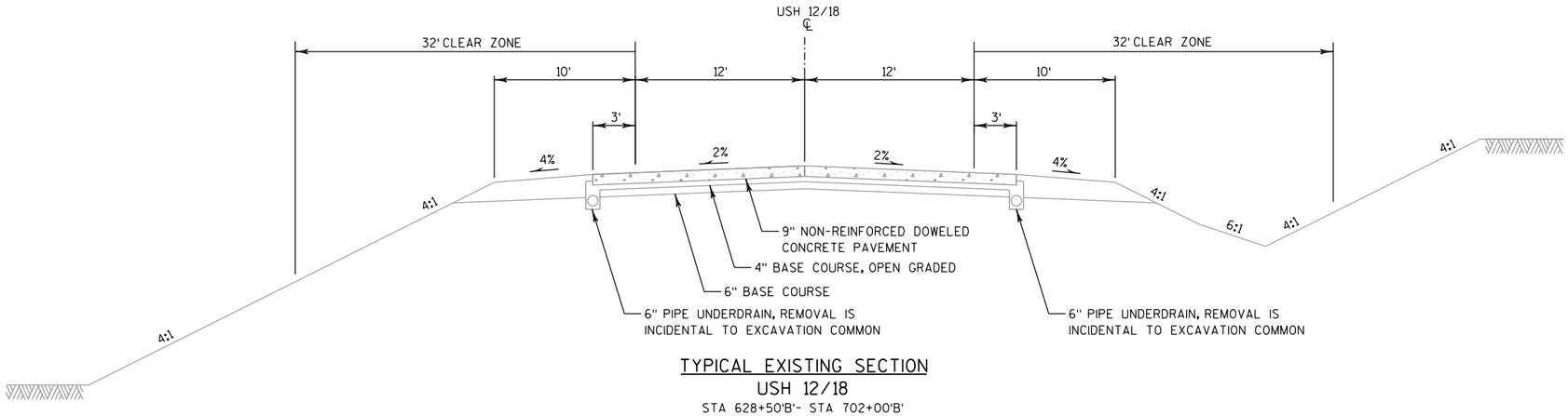


TYPICAL EXISTING SECTION
STH 73
400' SOUTH OF USH 12/18 TO USH 12/18 INTERSECTION



TYPICAL EXISTING SECTION
STH 73
NORTH OF USH 12/18

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL EXISTING SECTIONS - STH 73	SHEET 5	E

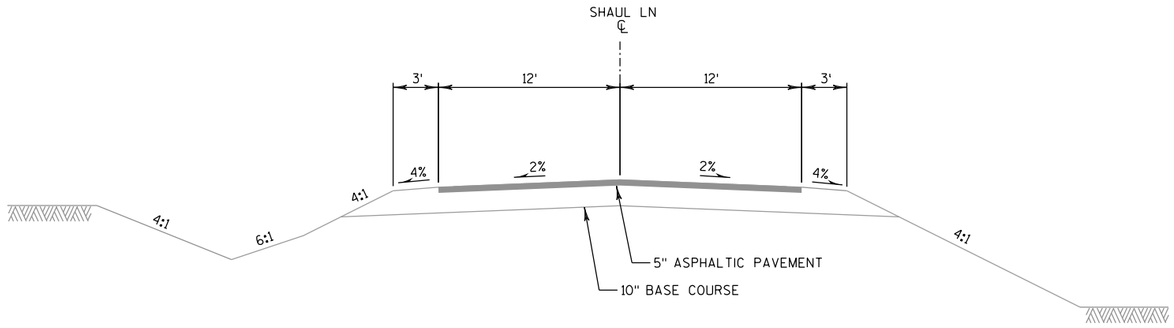


TYPICAL EXISTING SECTION
USH 12/18
STA 628+50'B'- STA 702+00'B'

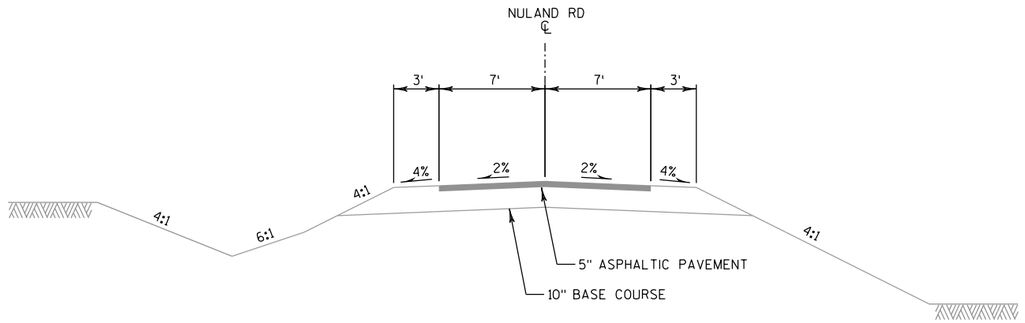
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL EXISTING SECTIONS - USH 12/18	SHEET 6	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\020301_ts.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

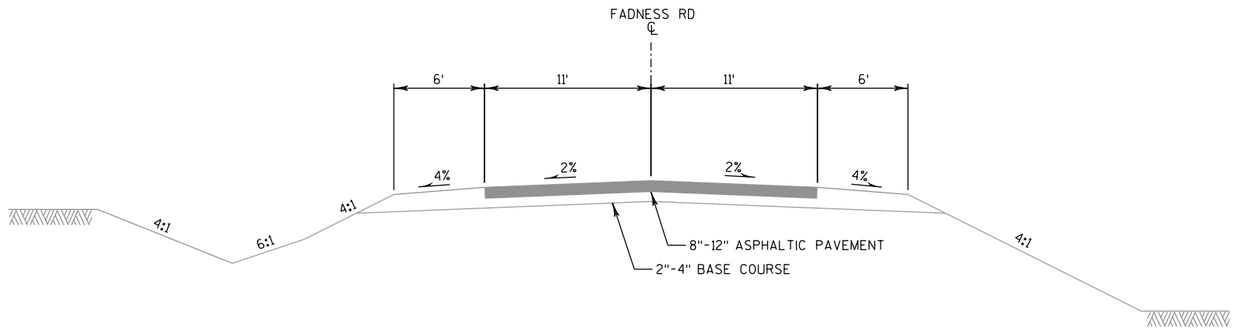
WISDOT/CADDS SHEET 42



TYPICAL EXISTING SECTION
SHAUL LN
STH 73 INTERSECTION - 700'EAST OF STH 73



TYPICAL EXISTING SECTION
NULAND RD
STA 6+50'NU' - STA 11+00'NU'

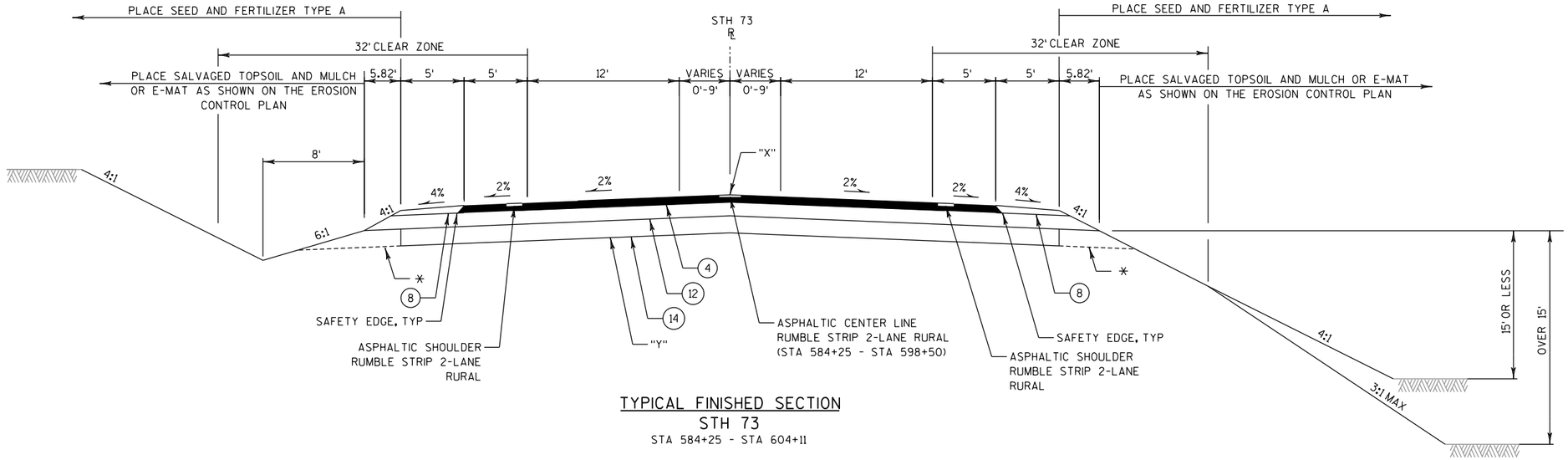


TYPICAL EXISTING SECTION
FADNESS RD
STA 6+75'FD' - STA 8+00'FD'

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL EXISTING SECTIONS - SIDE ROADS	SHEET 7	E

2

1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
STH 73
STA 584+25 - STA 604+11

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

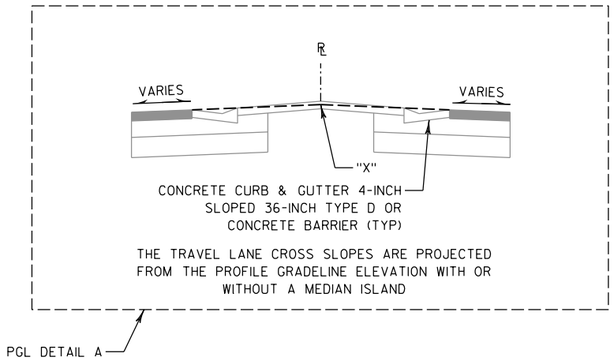
* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

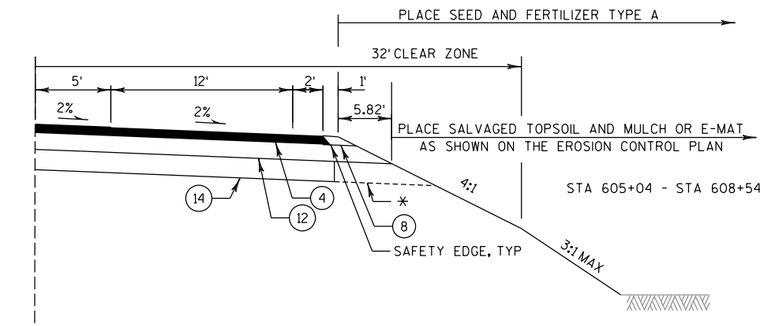
PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

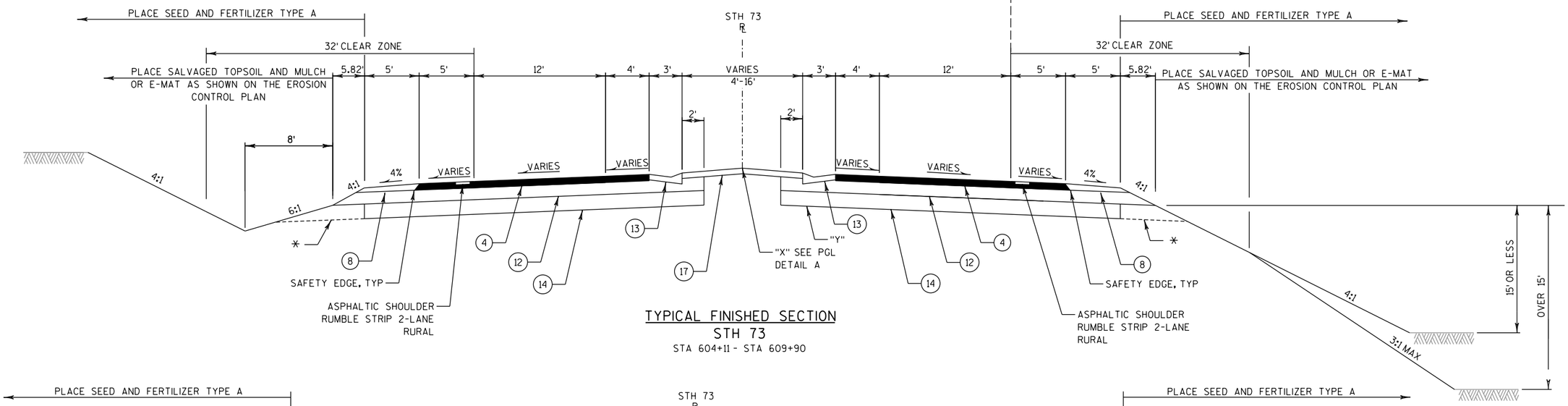
ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - STH 73	SHEET 8	E

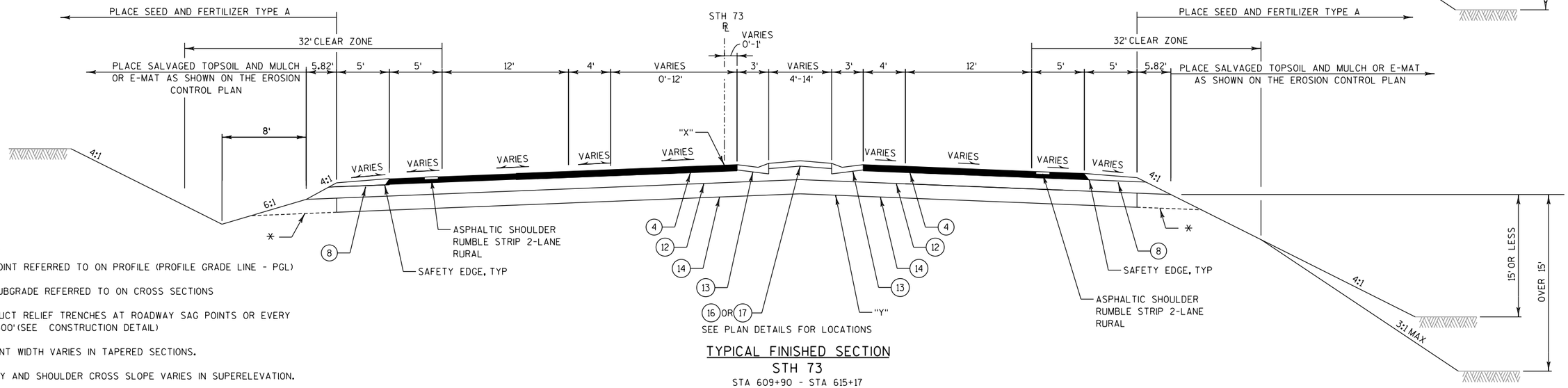
1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
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14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D







TYPICAL FINISHED SECTION
STH 73
STA 604+11 - STA 609+90



TYPICAL FINISHED SECTION
STH 73
STA 609+90 - STA 615+17

NOTES

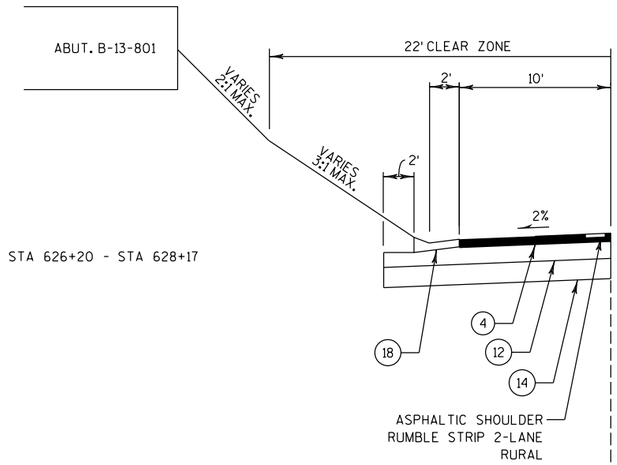
"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

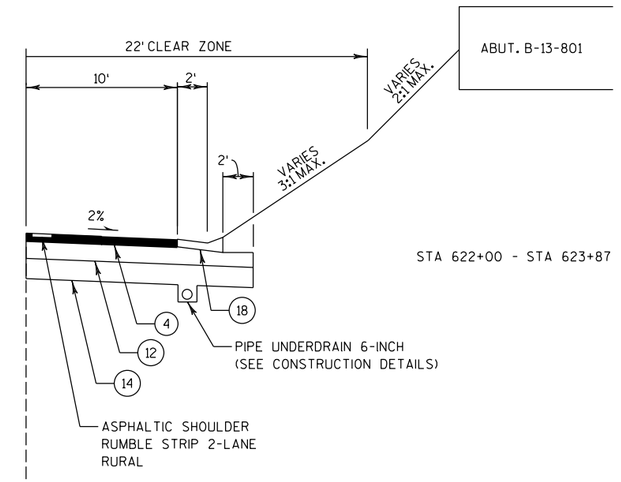
* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

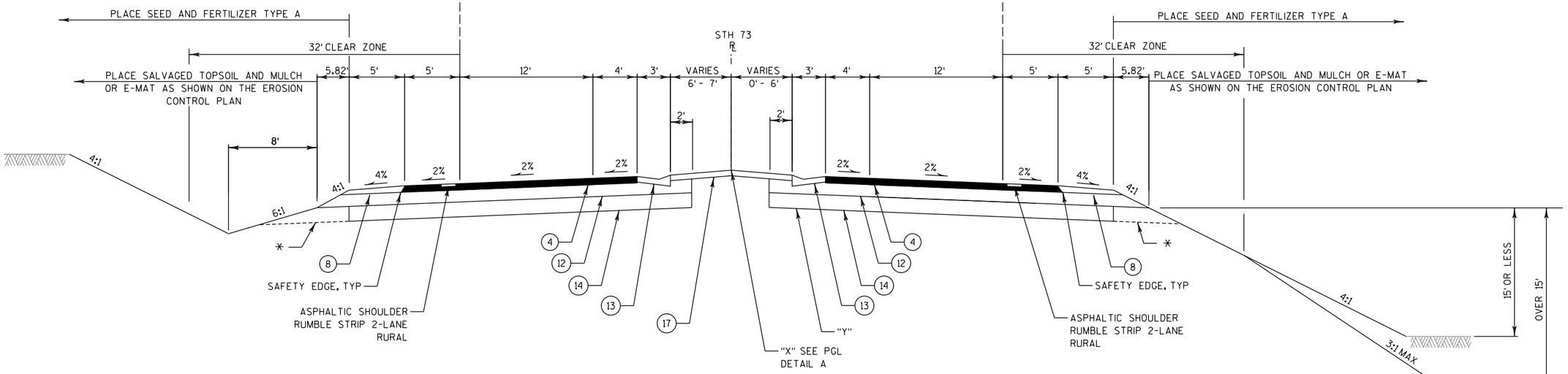


STA 626+20 - STA 628+17



STA 622+00 - STA 623+87

1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION

STH 73

STA 615+17 - STA 623+87

STA 626+20 - STA 633+65

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

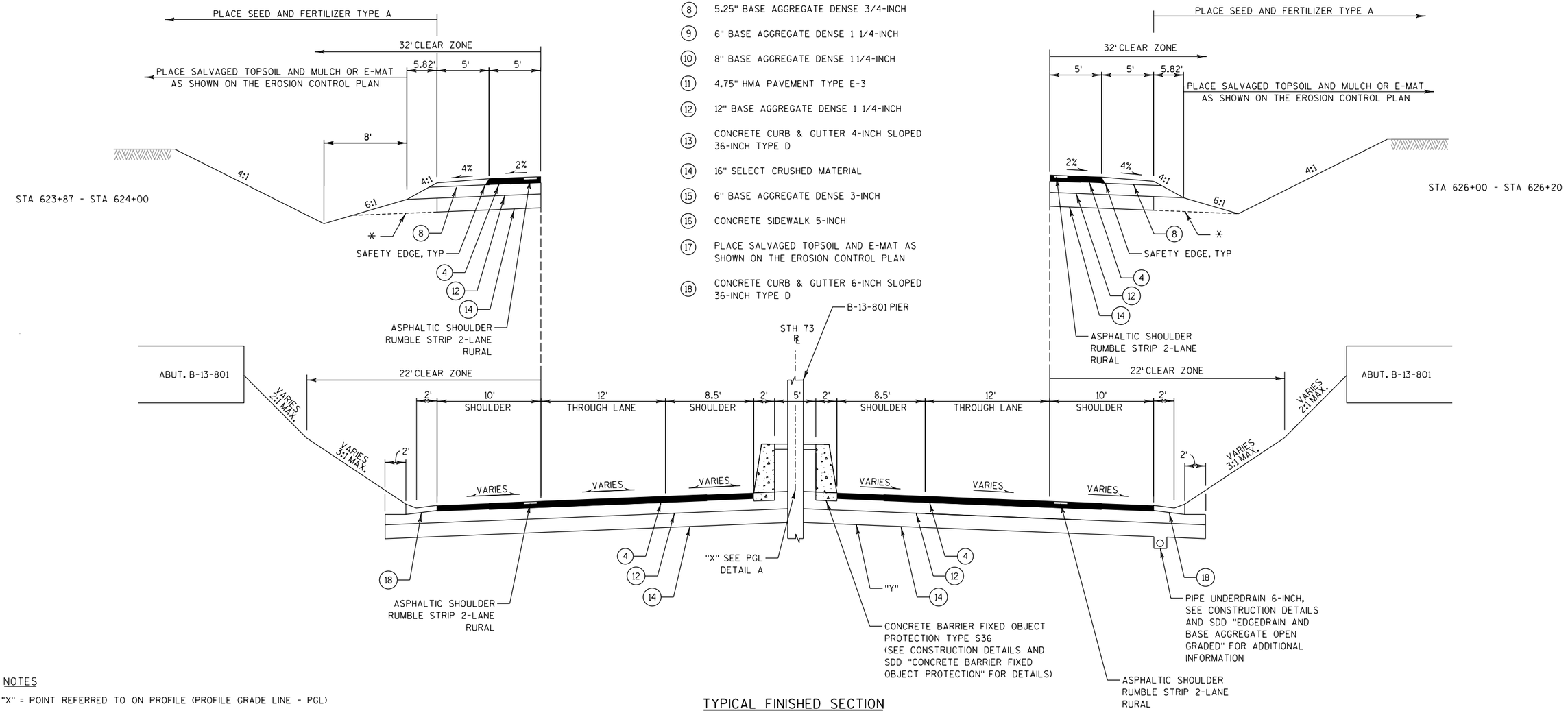
PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - STH 73	SHEET 10	E

2

1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

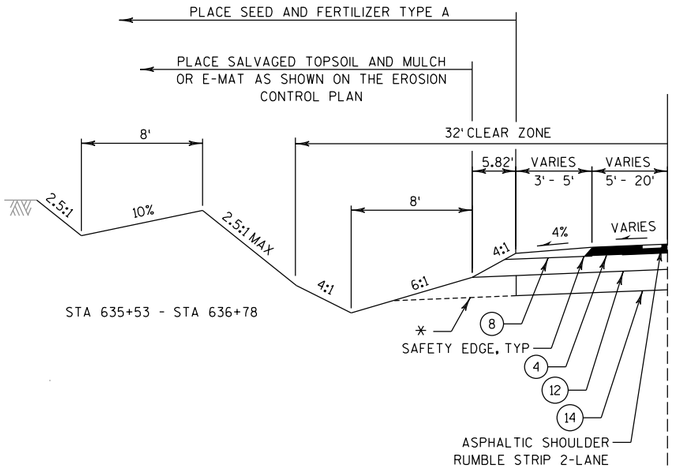
* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

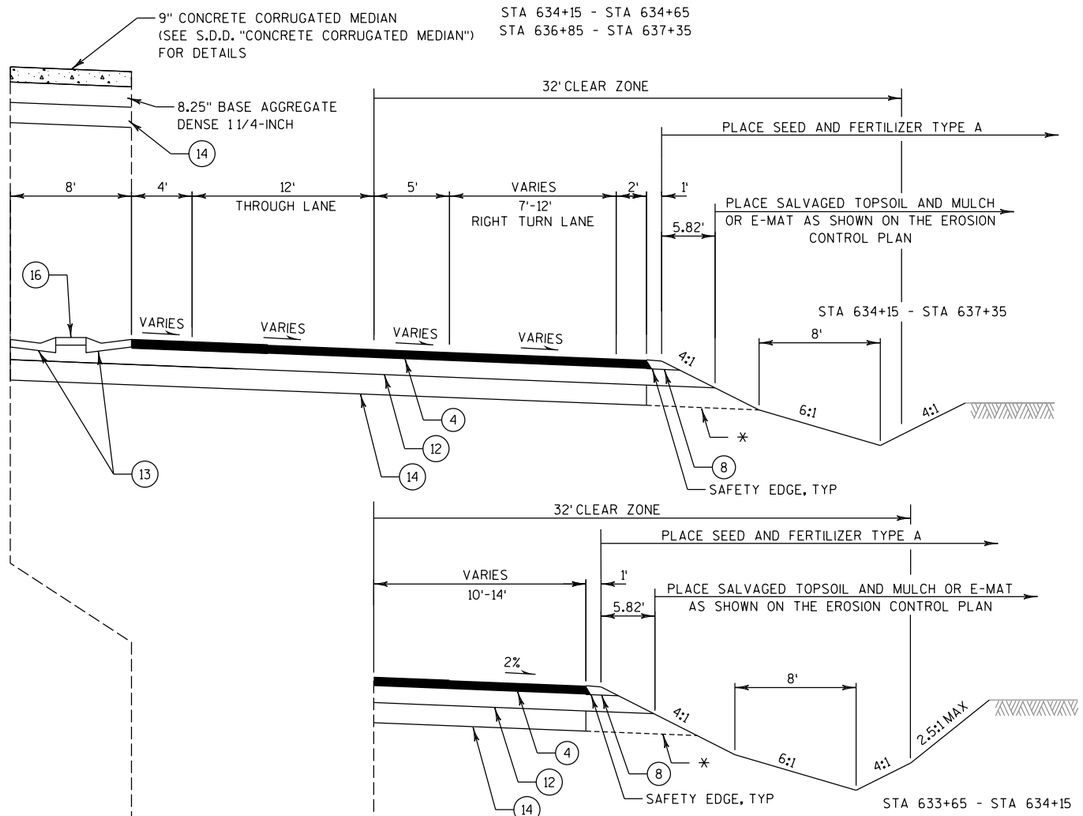
ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

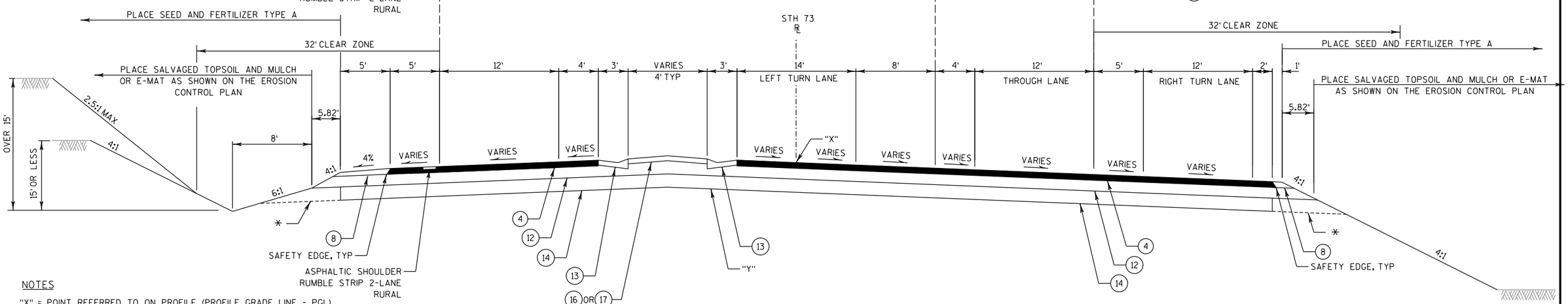
TYPICAL FINISHED SECTION
STH 73
STA 623+87 - STA 626+20

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - STH 73	SHEET 11	E



1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D





NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

TYPICAL FINISHED SECTION
STH 73
STA 633+65 - STA 638+03

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - STH 73	SHEET 12	E

2

2

(1) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED

(2) 3.5" HMA PAVEMENT TYPE E-0.3

(3) 4" HMA PAVEMENT TYPE E-3

(4) 5.25" HMA PAVEMENT TYPE E-3

(5) 3.5" BASE AGGREGATE DENSE 3/4-INCH

(6) 4" BASE AGGREGATE DENSE 3/4-INCH

(7) 4.75" BASE AGGREGATE DENSE 3/4-INCH

(8) 5.25" BASE AGGREGATE DENSE 3/4-INCH

(9) 6" BASE AGGREGATE DENSE 1 1/4-INCH

(10) 8" BASE AGGREGATE DENSE 1 1/4-INCH

(11) 4.75" HMA PAVEMENT TYPE E-3

(12) 12" BASE AGGREGATE DENSE 1 1/4-INCH

(13) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

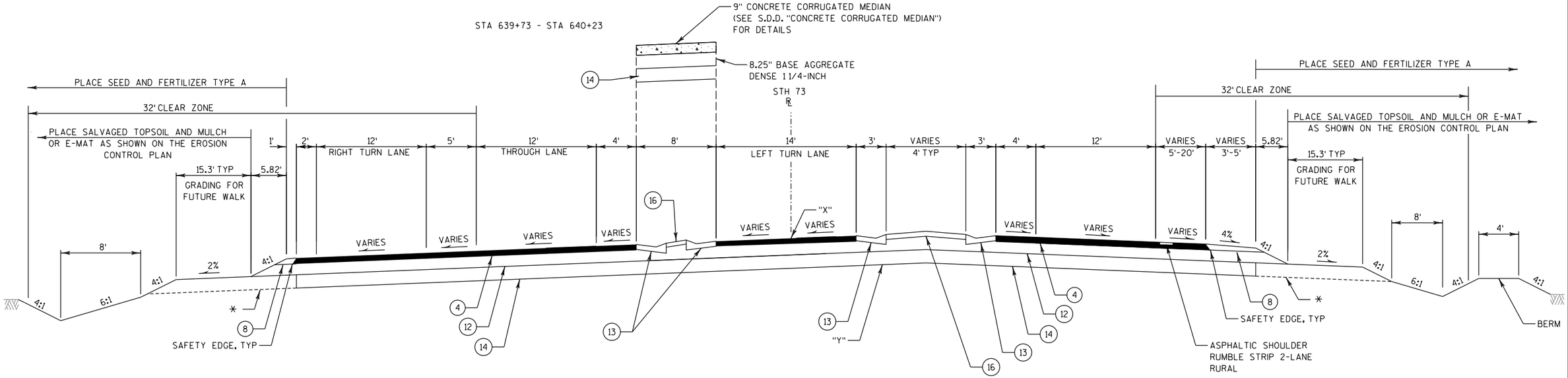
(14) 16" SELECT CRUSHED MATERIAL

(15) 6" BASE AGGREGATE DENSE 3-INCH

(16) CONCRETE SIDEWALK 5-INCH

(17) PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN

(18) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION

STH 73

STA 638+03 - STA 640+23

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300'(SEE CONSTRUCTION DETAIL)

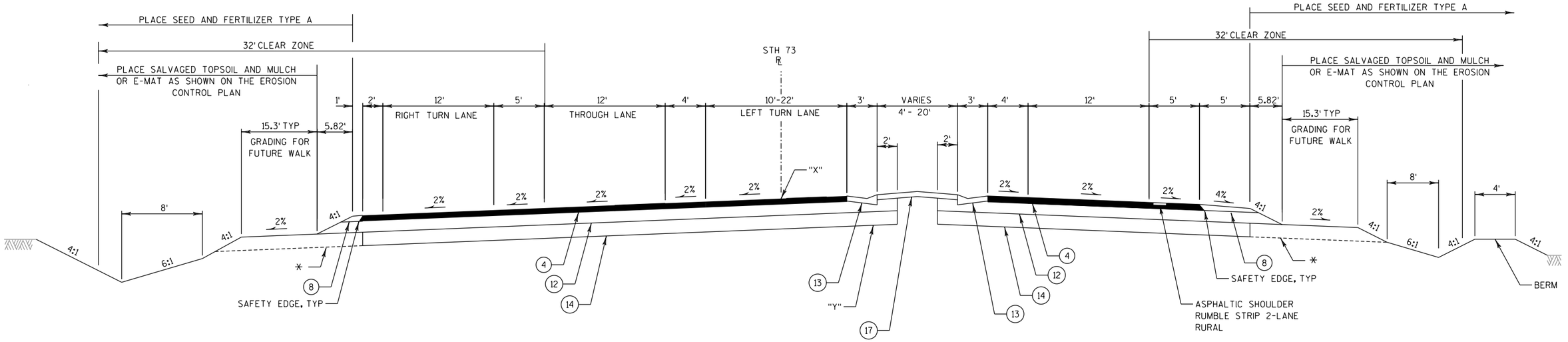
PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - STH 73	SHEET 13	E

2

1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
STH 73
STA 640+23 - STA 642+20

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

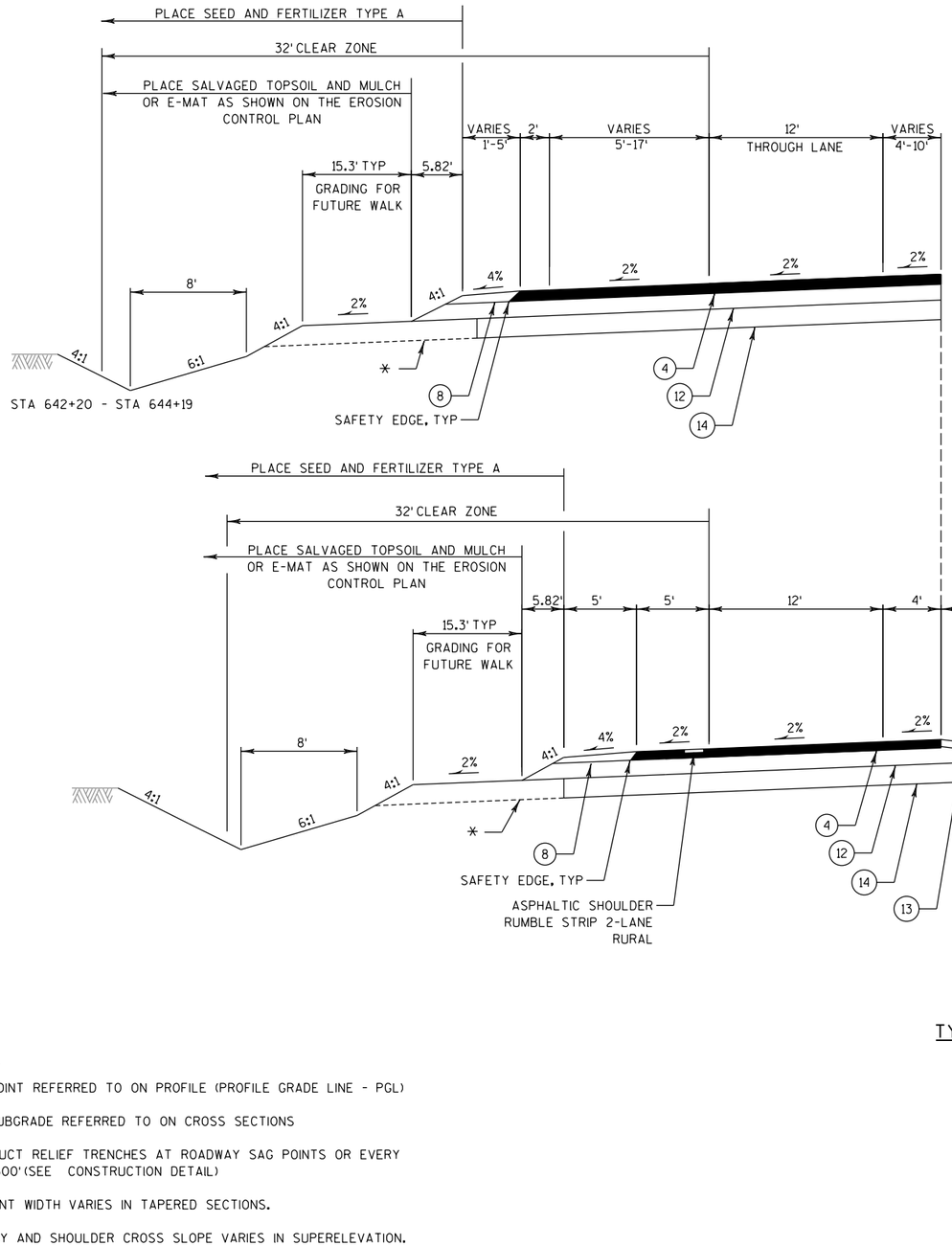
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

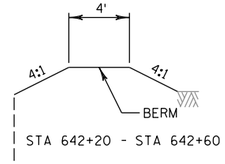
* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300'(SEE CONSTRUCTION DETAIL)

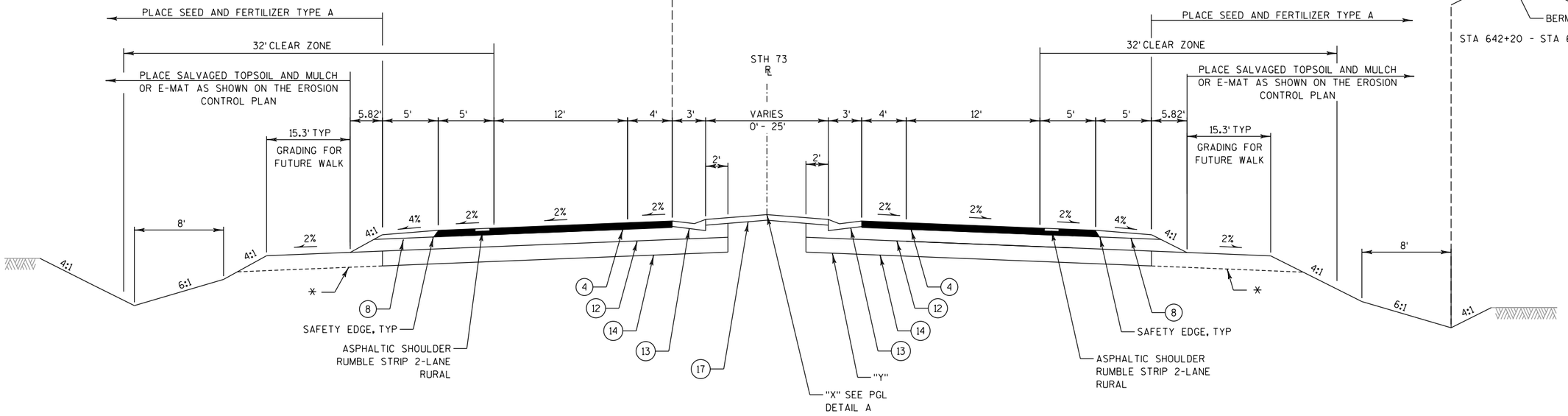
PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - STH 73	SHEET 14	E







1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

TYPICAL FINISHED SECTION
STH 73
STA 642+20 - STA 649+62

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

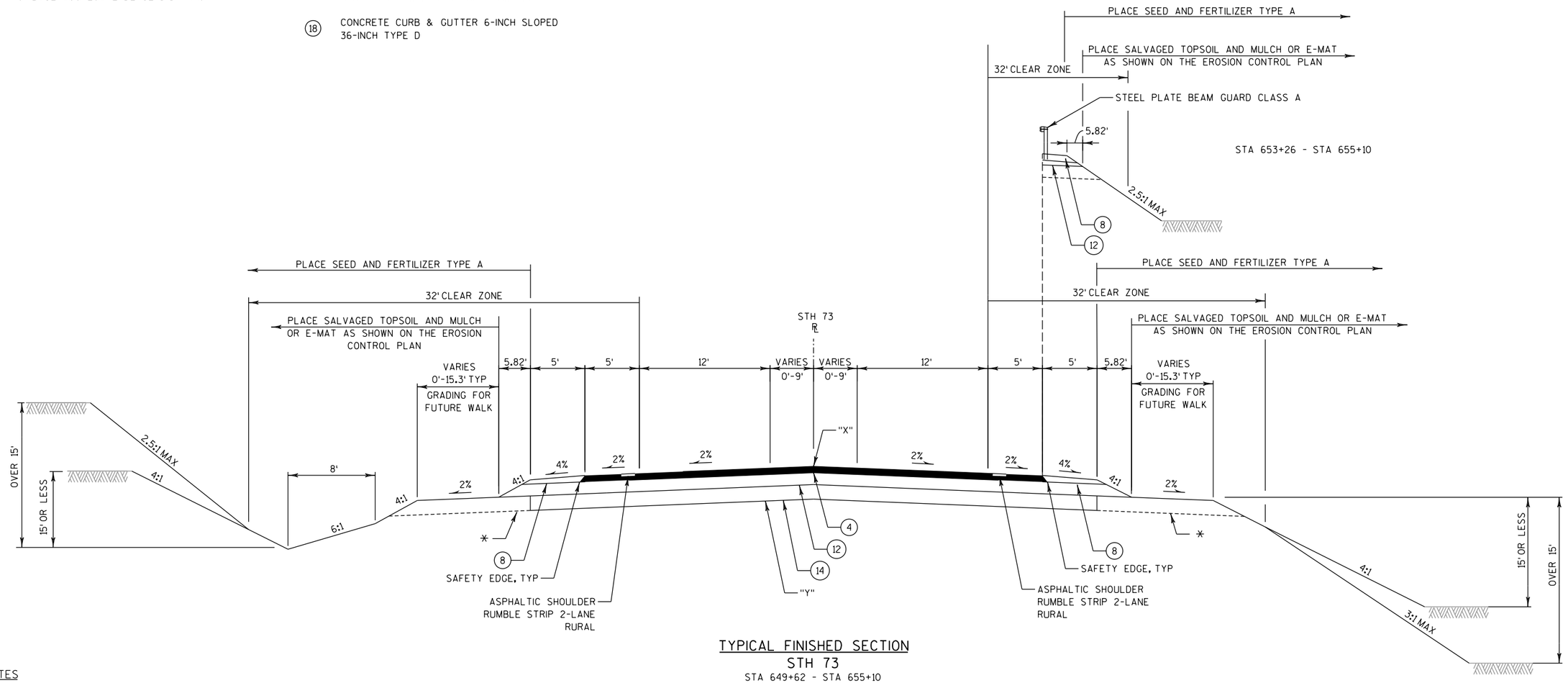
* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

2

1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
STH 73
STA 649+62 - STA 655+10

STA 653+26 - STA 655+10

NOTES

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"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

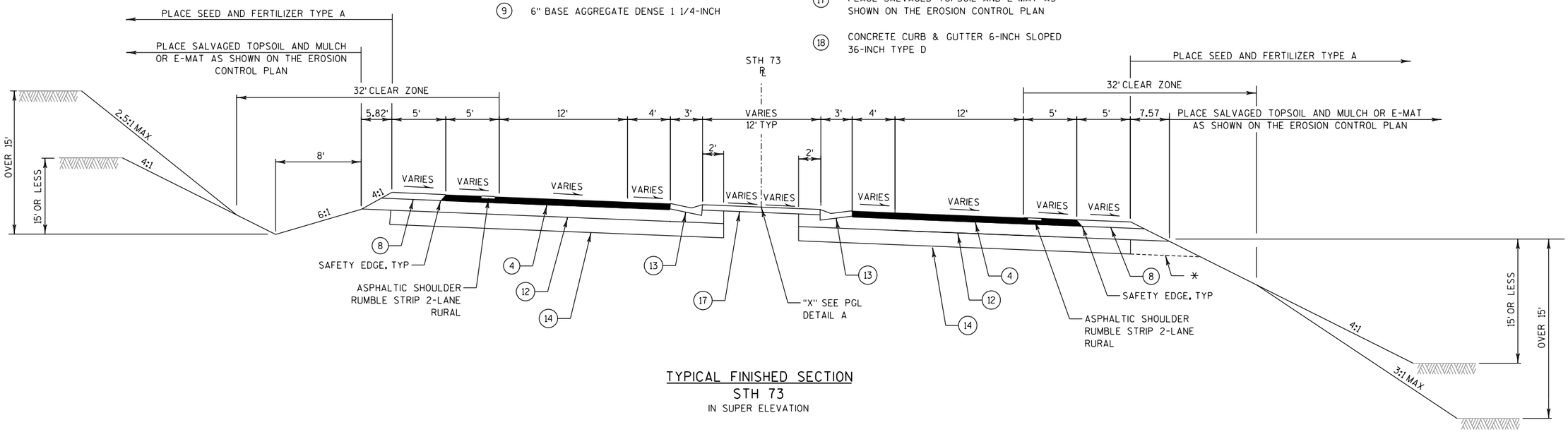
PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - STH 73	SHEET 16	E

2

1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
STH 73
IN SUPER ELEVATION

SUPERELEVATION DESCRIPTION	CURVE 1			INTERSECTION WITH JUG RAMP A			CURVE 2			INTERSECTION WITH JUG RAMP B		
	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄
END NORMAL CROWN	591+80.21	-2.00%	-2.00%	608+14.11	-2.00%	-2.00%	611+03.87	-1.00%	-2.00%	636+38.00	-2.00%	-2.00%
REVERSE CROWN	592+86.21	-2.00%	2.00%	--	--	--	612+23.87	2.00%	-2.00%	--	--	--
BEGIN FULL SUPER	593+93.21	-6.00%	6.00%	608+54.11	-1.00%	-1.00%	613+83.87	6.00%	-6.00%	636+78.00	-1.00%	-1.00%
END FULL SUPER	602+77.99	-6.00%	6.00%	610+46.11	-1.00%	-1.00%	623+14.87	6.00%	-6.00%	638+70.00	-1.00%	-1.00%
REVERSE CROWN	604+37.99	-2.00%	2.00%	--	--	--	624+74.87	2.00%	-2.00%	--	--	--
BEGIN NORMAL CROWN	605+97.99	-2.00%	-2.00%	610+86.11	-1.00%	-2.00%	626+34.87	-2.00%	-2.00%	639+10.00	-2.00%	-2.00%

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION AND THE SHOULDER USES SAME BEGIN/END TRANSITION STATIONS AS PAVEMENT SUPERELEVATION.

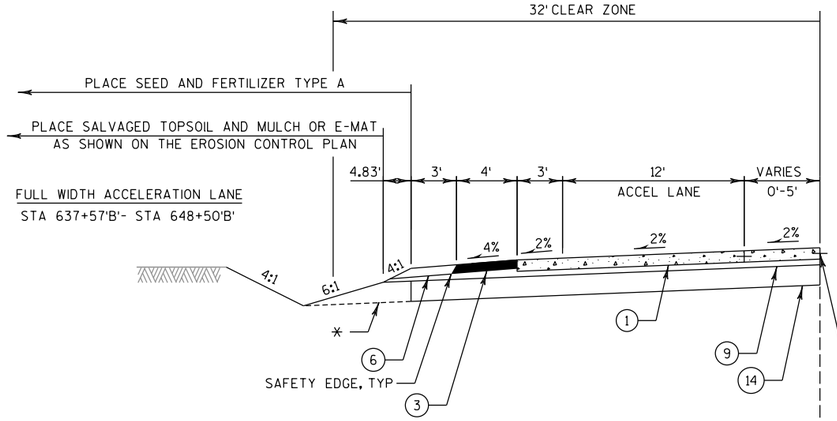
THE R/L IS THE POINT OF ROTATION FOR ALL SUPERELEVATIONS.

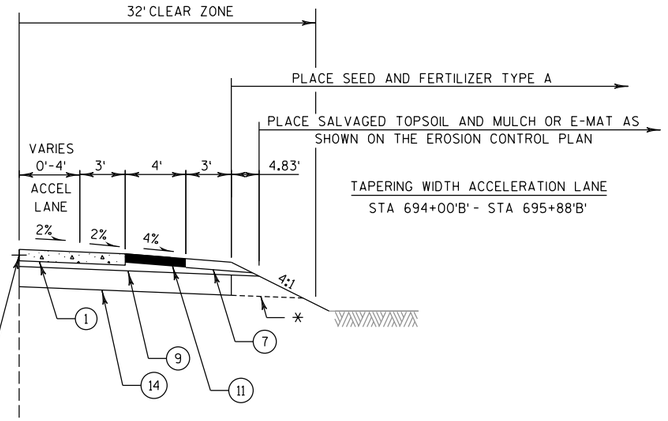
THE TRANSITIONS IN AND OUT OF SUPERELEVATIONS ARE DESIGNED TO PROVIDE FOR SMOOTH PAVEMENT EDGES. ELEVATIONS THROUGH THE SUPERELEVATION TRANSITIONS ARE REFLECTED ON THE PAVING DETAILS AND CROSS SECTIONS.

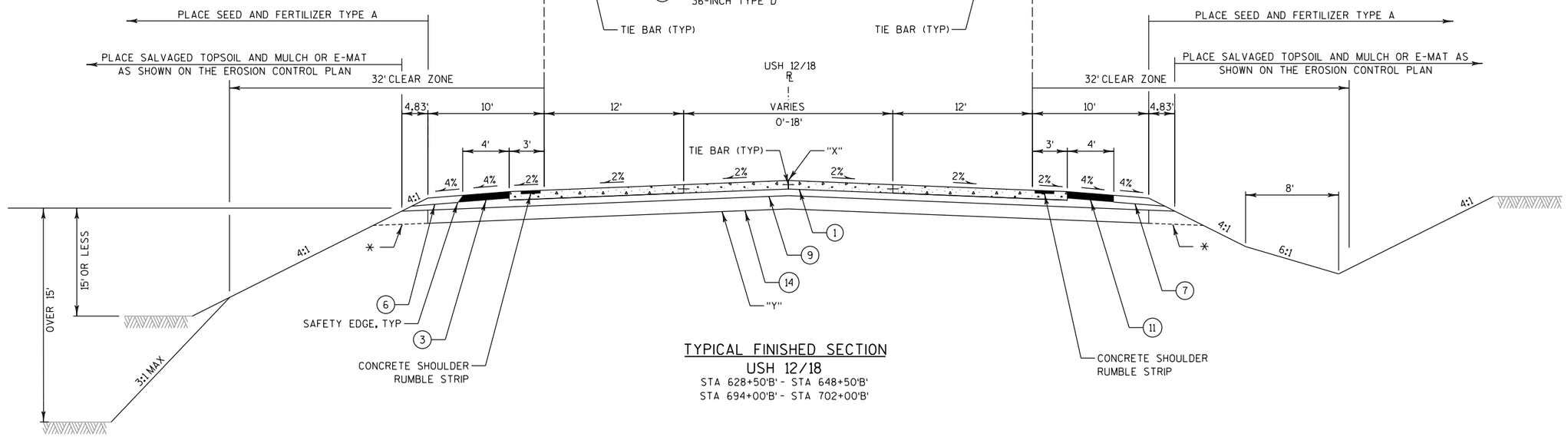
2

2

1 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2 3.5" HMA PAVEMENT TYPE E-0.3
3 4" HMA PAVEMENT TYPE E-3
4 5.25" HMA PAVEMENT TYPE E-3
5 3.5" BASE AGGREGATE DENSE 3/4-INCH
6 4" BASE AGGREGATE DENSE 3/4-INCH
7 4.75" BASE AGGREGATE DENSE 3/4-INCH
8 5.25" BASE AGGREGATE DENSE 3/4-INCH
9 6" BASE AGGREGATE DENSE 1 1/4-INCH
10 8" BASE AGGREGATE DENSE 1 1/4-INCH
11 4.75" HMA PAVEMENT TYPE E-3
12 12" BASE AGGREGATE DENSE 1 1/4-INCH
13 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14 16" SELECT CRUSHED MATERIAL
15 6" BASE AGGREGATE DENSE 3-INCH
16 CONCRETE SIDEWALK 5-INCH
17 PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D







TYPICAL FINISHED SECTION
USH 12/18
STA 628+50'B'- STA 648+50'B'
STA 694+00'B'- STA 702+00'B'

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

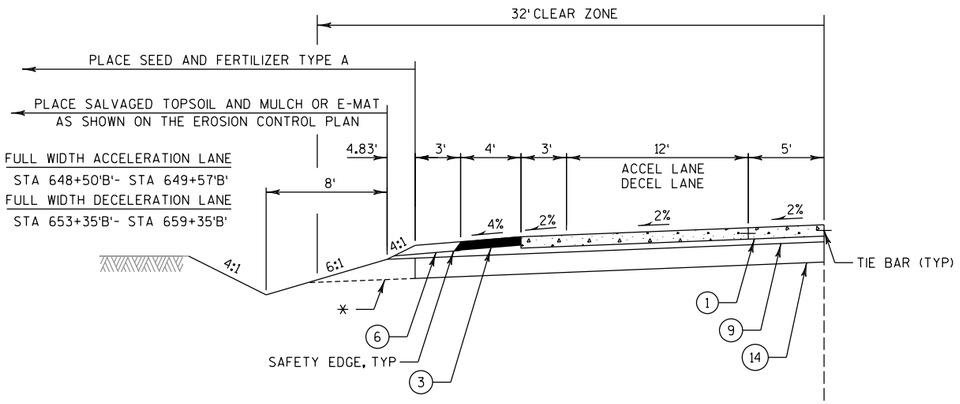
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

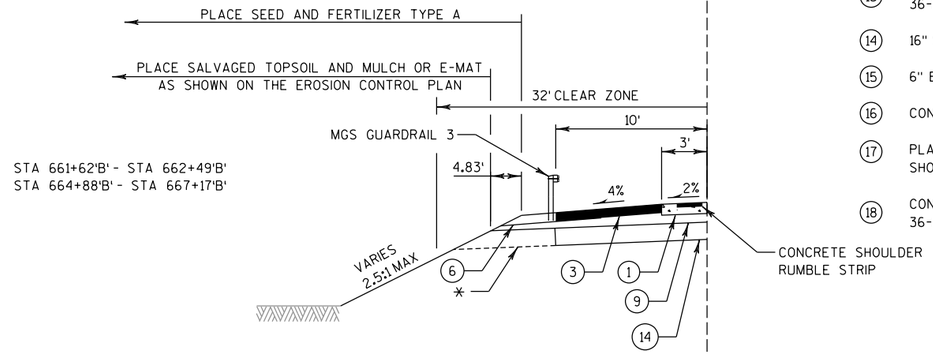
* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200'- 300'(SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

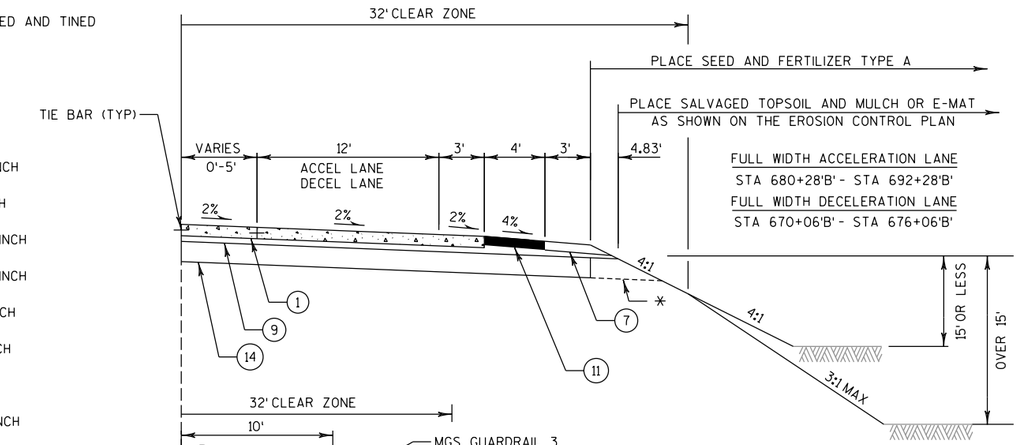
ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

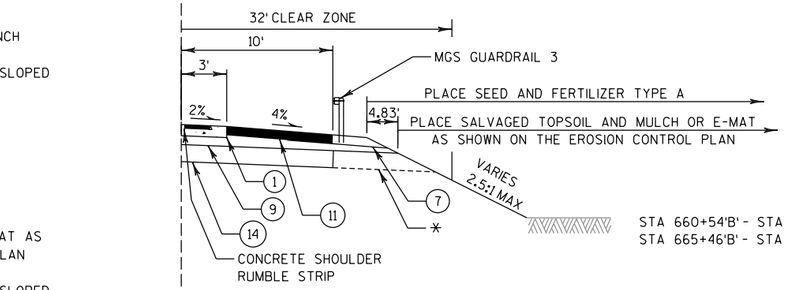
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - USH 12/18	SHEET 18	E

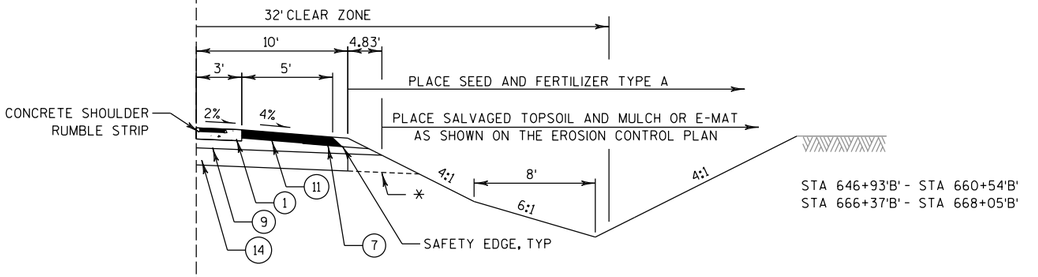


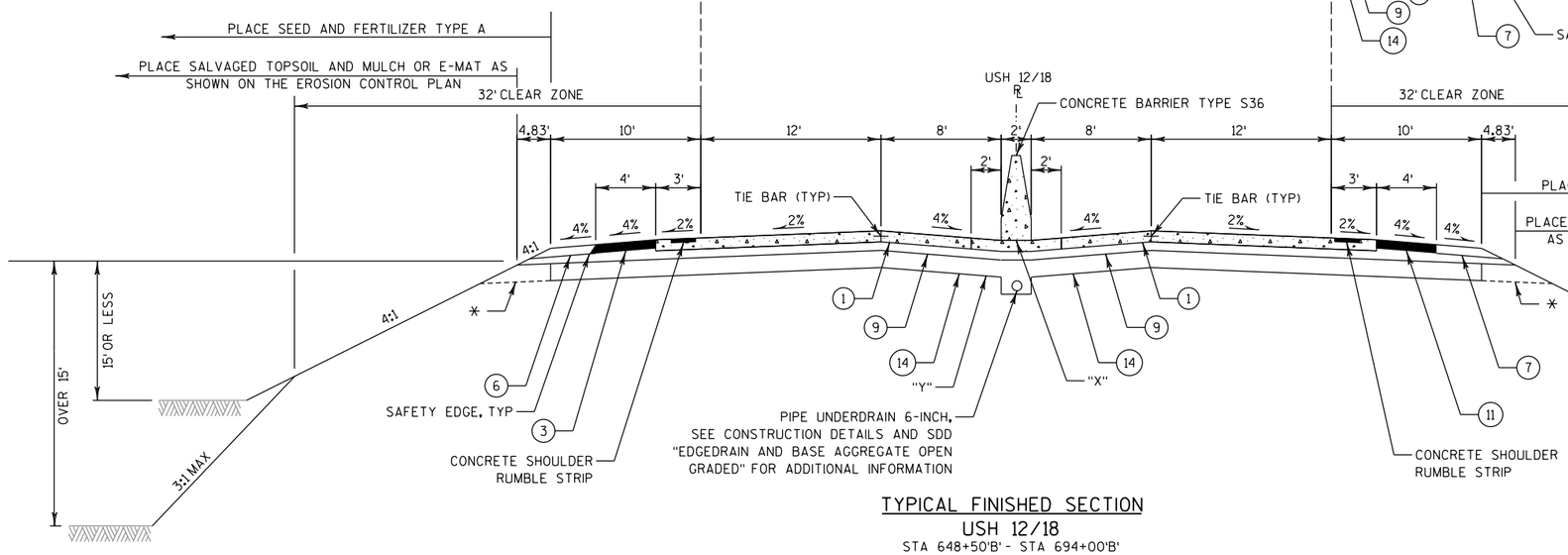


1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D









TYPICAL FINISHED SECTION
USH 12/18
STA 648+50'B' - STA 694+00'B'

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

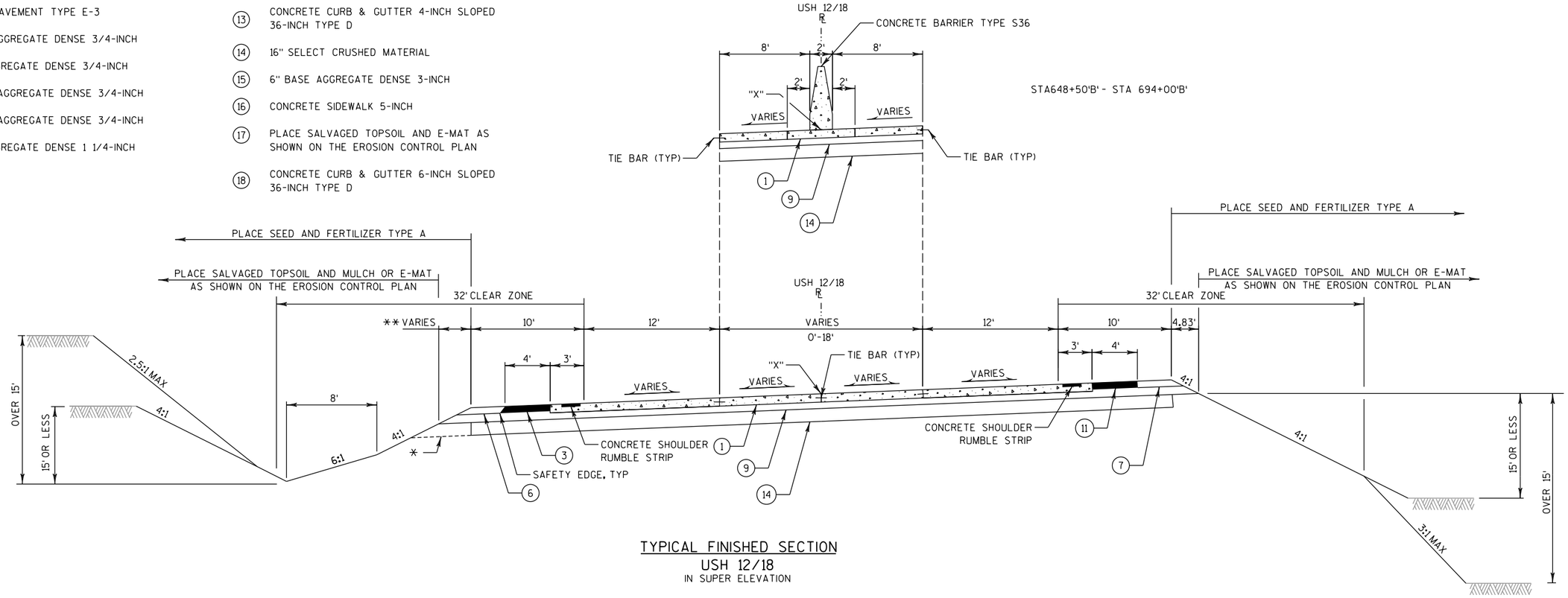
* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

2

1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION

USH 12/18

IN SUPER ELEVATION

SUPERELEVATION DESCRIPTION	CURVE 1				MEDIAN SLOPE TRANSITION AT BARRIER			MEDIAN SLOPE TRANSITION AT STRUCTURE B-13-801			CURVE 2			
	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄	** LOW SIDE SHOULDER SLOPE WIDTH	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄	** LOW SIDE SHOULDER SLOPE WIDTH
END NORMAL CROWN	632+65.64'B'	-2.00%	-2.00%	4.83'	648+50.00'B'	-2.00%	-2.00%	660+05.00'B'	4.00%	4.00%	682+34.36'B'	-2.00%	-2.00%	4.83'
REVERSE CROWN	634+25.64'B'	2.00%	-2.00%	--	650+90.00'B'	4.00%	4.00%	660+85.00'B'	2.00%	2.00%	683+94.36'B'	-2.00%	2.00%	--
BEGIN FULL SUPER	635+25.64'B'	4.50%	-4.50%	6.10'	681+54.36'B'	4.00%	4.00%	662+45.00'B'	-2.00%	-2.00%	685+30.36'B'	-5.40%	5.40%	6.38'
END FULL SUPER	640+79.40'B'	4.50%	-4.50%	6.10'	683+94.36'B'	-2.00%	4.00%	668+00.00'B'	-2.00%	-2.00%	697+51.91'B'	-5.40%	5.40%	6.38'
REVERSE CROWN	641+79.40'B'	2.00%	-2.00%	--	684+74.36'B'	-4.00%	4.00%	669+60.00'B'	2.00%	2.00%	698+87.91'B'	-2.00%	2.00%	--
BEGIN NORMAL CROWN	643+39.40'B'	-2.00%	-2.00%	4.83'	685+30.36'B'	-5.40%	5.40%	670+40.00'B'	4.00%	4.00%	700+47.91'B'	-2.00%	-2.00%	4.83'

NOTES

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* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION AND THE SHOULDER USES SAME BEGIN/END TRANSITION STATIONS AS PAVEMENT SUPERELEVATION.

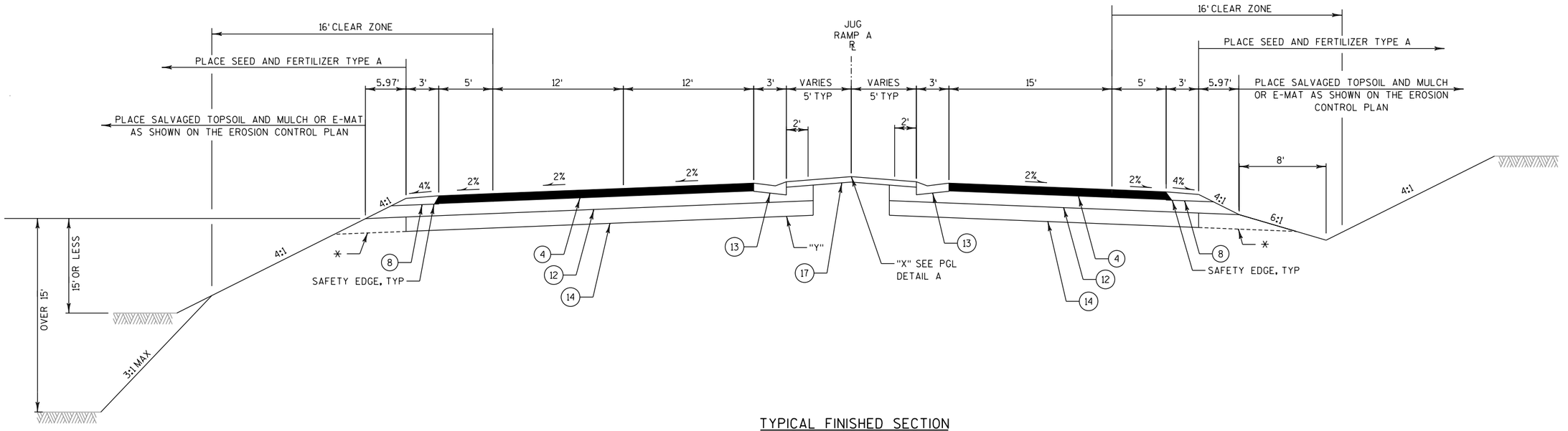
THE R/L IS THE POINT OF ROTATION FOR ALL SUPERELEVATIONS.

THE TRANSITIONS IN AND OUT OF SUPERELEVATIONS ARE DESIGNED TO PROVIDE FOR SMOOTH PAVEMENT EDGES. ELEVATIONS THROUGH THE SUPERELEVATION TRANSITIONS ARE REFLECTED ON THE PAVING DETAILS AND CROSS SECTIONS.

2

2

1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
JUG RAMP A
STA 1000+44'JA' - STA 1004+71'JA'

NOTES

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* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300'(SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - JUG RAMPS	SHEET 21	E

2

(1) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED

(2) 3.5" HMA PAVEMENT TYPE E-0.3

(3) 4" HMA PAVEMENT TYPE E-3

(4) 5.25" HMA PAVEMENT TYPE E-3

(5) 3.5" BASE AGGREGATE DENSE 3/4-INCH

(6) 4" BASE AGGREGATE DENSE 3/4-INCH

(7) 4.75" BASE AGGREGATE DENSE 3/4-INCH

(8) 5.25" BASE AGGREGATE DENSE 3/4-INCH

(9) 6" BASE AGGREGATE DENSE 1 1/4-INCH

(10) 8" BASE AGGREGATE DENSE 1 1/4-INCH

(11) 4.75" HMA PAVEMENT TYPE E-3

(12) 12" BASE AGGREGATE DENSE 1 1/4-INCH

(13) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

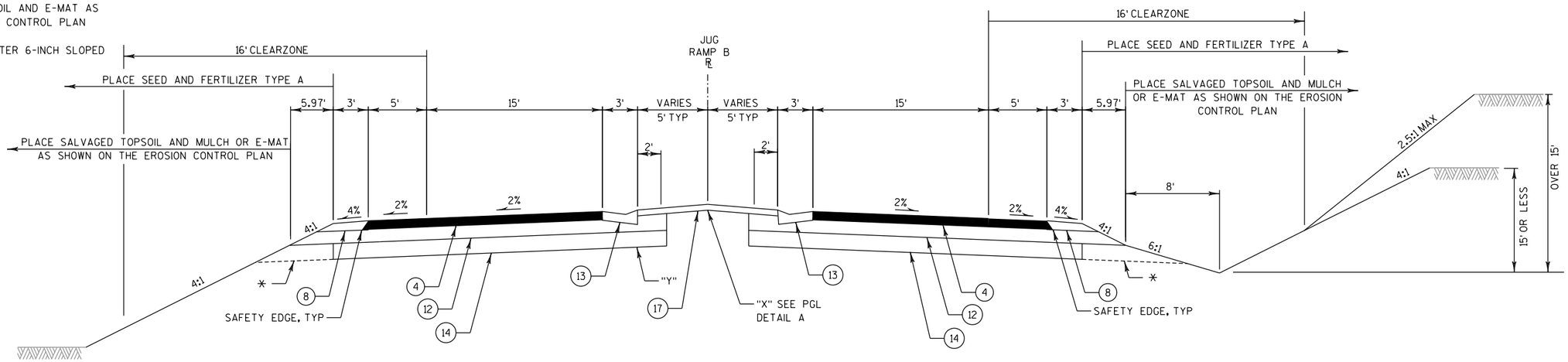
(14) 16" SELECT CRUSHED MATERIAL

(15) 6" BASE AGGREGATE DENSE 3-INCH

(16) CONCRETE SIDEWALK 5-INCH

(17) PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN

(18) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
JUG RAMP B
STA 2000+32'JB' - STA 2005+80'JB'

NOTES

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* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300'(SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - JUG RAMPS	SHEET 22	E

(1) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED

(2) 3.5" HMA PAVEMENT TYPE E-0.3

(3) 4" HMA PAVEMENT TYPE E-3

(4) 5.25" HMA PAVEMENT TYPE E-3

(5) 3.5" BASE AGGREGATE DENSE 3/4-INCH

(6) 4" BASE AGGREGATE DENSE 3/4-INCH

(7) 4.75" BASE AGGREGATE DENSE 3/4-INCH

(8) 5.25" BASE AGGREGATE DENSE 3/4-INCH

(9) 6" BASE AGGREGATE DENSE 1 1/4-INCH

(10) 8" BASE AGGREGATE DENSE 1 1/4-INCH

(11) 4.75" HMA PAVEMENT TYPE E-3

(12) 12" BASE AGGREGATE DENSE 1 1/4-INCH

(13) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

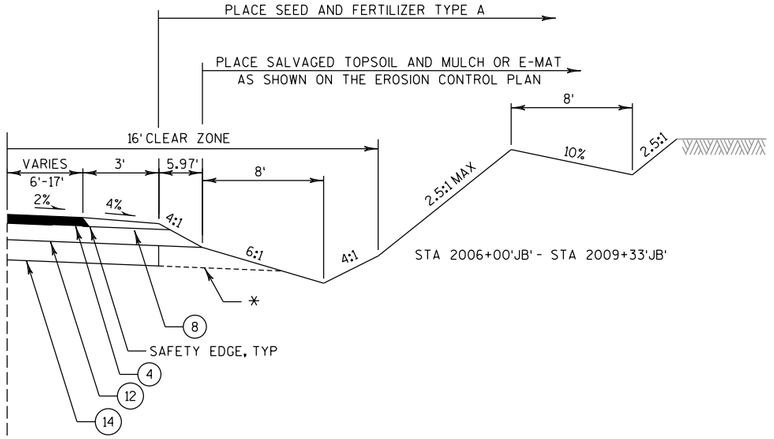
(14) 16" SELECT CRUSHED MATERIAL

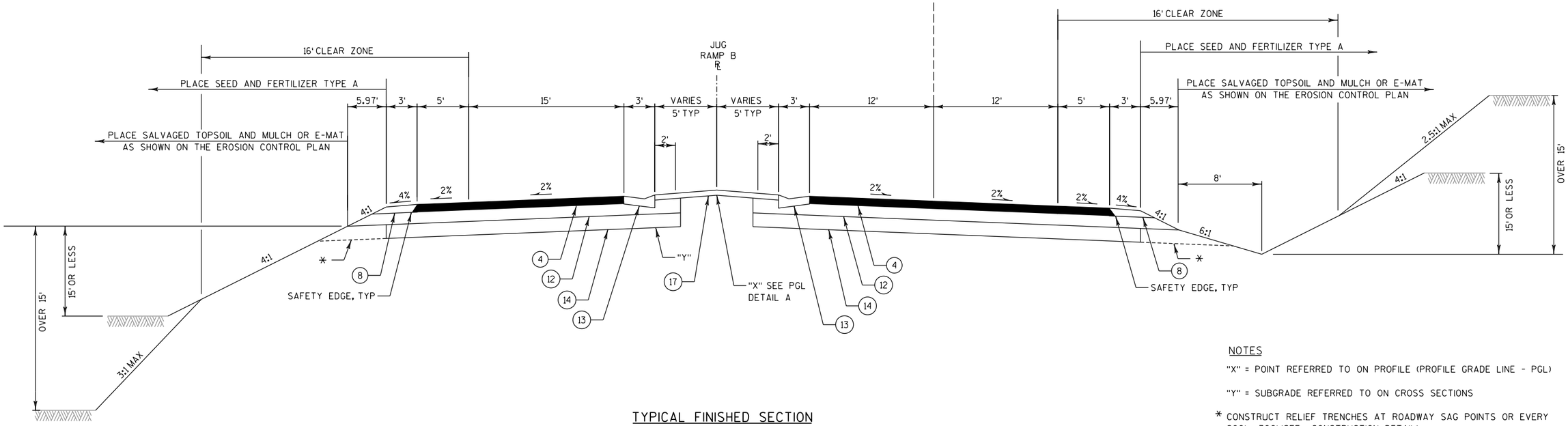
(15) 6" BASE AGGREGATE DENSE 3-INCH

(16) CONCRETE SIDEWALK 5-INCH

(17) PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN

(18) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D





TYPICAL FINISHED SECTION
JUG RAMP B
STA 2005+80'JB' - STA 2009+94'JB'

NOTES

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"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' (SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

2

(1) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED

(2) 3.5" HMA PAVEMENT TYPE E-0.3

(3) 4" HMA PAVEMENT TYPE E-3

(4) 5.25" HMA PAVEMENT TYPE E-3

(5) 3.5" BASE AGGREGATE DENSE 3/4-INCH

(6) 4" BASE AGGREGATE DENSE 3/4-INCH

(7) 4.75" BASE AGGREGATE DENSE 3/4-INCH

(8) 5.25" BASE AGGREGATE DENSE 3/4-INCH

(9) 6" BASE AGGREGATE DENSE 1 1/4-INCH

(10) 8" BASE AGGREGATE DENSE 1 1/4-INCH

(11) 4.75" HMA PAVEMENT TYPE E-3

(12) 12" BASE AGGREGATE DENSE 1 1/4-INCH

(13) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

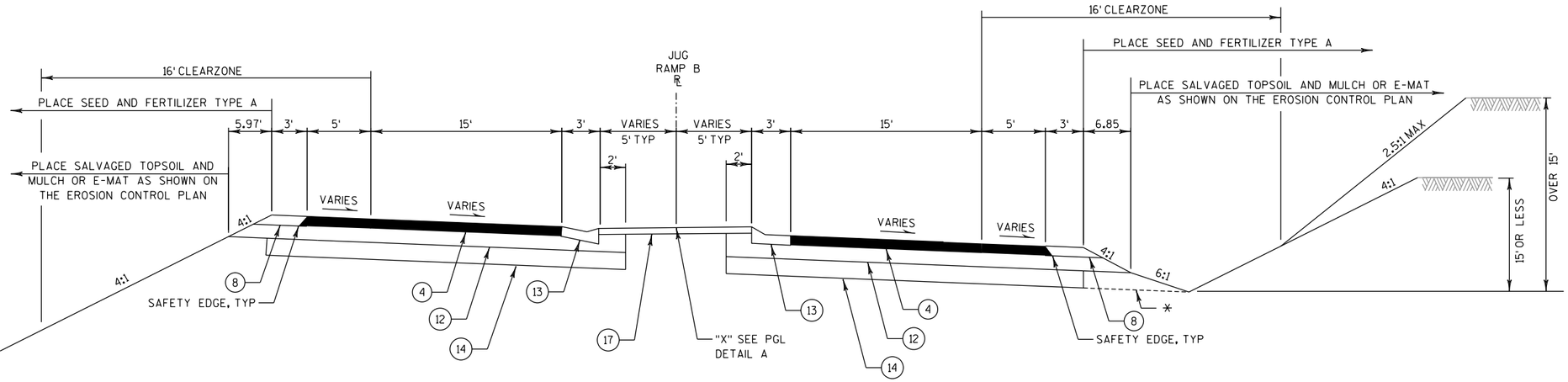
(14) 16" SELECT CRUSHED MATERIAL

(15) 6" BASE AGGREGATE DENSE 3-INCH

(16) CONCRETE SIDEWALK 5-INCH

(17) PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN

(18) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
JUG RAMP B
IN SUPER ELEVATION

SUPERELEVATION DESCRIPTION	CURVE 1		
	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄
END NORMAL CROWN	2003+54.62'JB'	-2.00%	-2.00%
REVERSE CROWN	2004+32.62'JB'	2.00%	-2.00%
BEGIN FULL SUPER	2004+70.62'JB'	4.00%	-4.00%
END FULL SUPER	2007+23.61'JB'	4.00%	-4.00%
REVERSE CROWN	2007+61.61'JB'	2.00%	-2.00%
BEGIN NORMAL CROWN	2008+39.61'JB'	-2.00%	-2.00%

NOTES

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"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

* CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200'- 300'(SEE CONSTRUCTION DETAIL)

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION AND THE SHOULDER USES SAME BEGIN/END TRANSITION STATIONS AS PAVEMENT SUPERELEVATION.

THE R/L IS THE POINT OF ROTATION FOR ALL SUPERELEVATIONS.

THE TRANSITIONS IN AND OUT OF SUPERELEVATIONS ARE DESIGNED TO PROVIDE FOR SMOOTH PAVEMENT EDGES. ELEVATIONS THROUGH THE SUPERELEVATION TRANSITIONS ARE REFLECTED ON THE PAVING DETAILS AND CROSS SECTIONS.

2

(1) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED

(2) 3.5" HMA PAVEMENT TYPE E-0.3

(3) 4" HMA PAVEMENT TYPE E-3

(4) 5.25" HMA PAVEMENT TYPE E-3

(5) 3.5" BASE AGGREGATE DENSE 3/4-INCH

(6) 4" BASE AGGREGATE DENSE 3/4-INCH

(7) 4.75" BASE AGGREGATE DENSE 3/4-INCH

(8) 5.25" BASE AGGREGATE DENSE 3/4-INCH

(9) 6" BASE AGGREGATE DENSE 1 1/4-INCH

(10) 8" BASE AGGREGATE DENSE 1 1/4-INCH

(11) 4.75" HMA PAVEMENT TYPE E-3

(12) 12" BASE AGGREGATE DENSE 1 1/4-INCH

(13) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

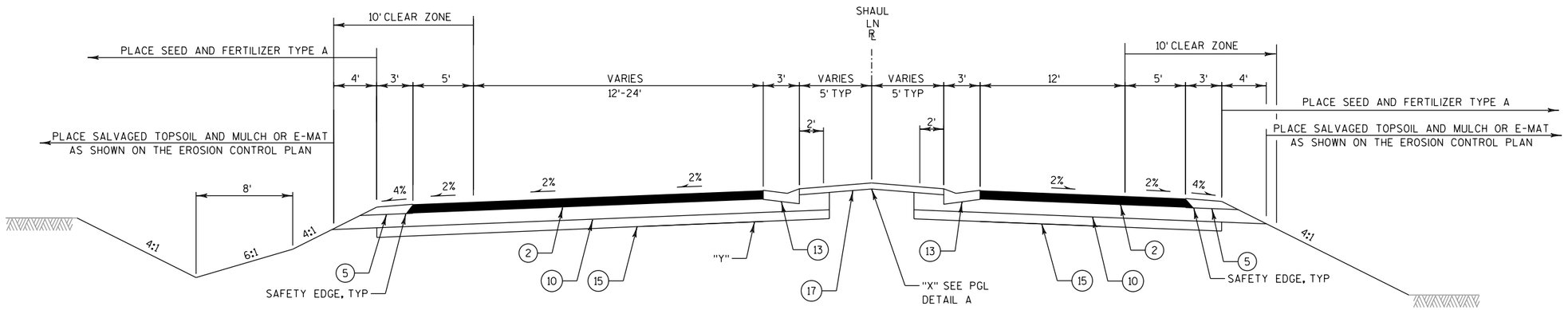
(14) 16" SELECT CRUSHED MATERIAL

(15) 6" BASE AGGREGATE DENSE 3-INCH

(16) CONCRETE SIDEWALK 5-INCH

(17) PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN

(18) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
SHAUL LN
STA 300+49'SH' - STA 302+90'SH'

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

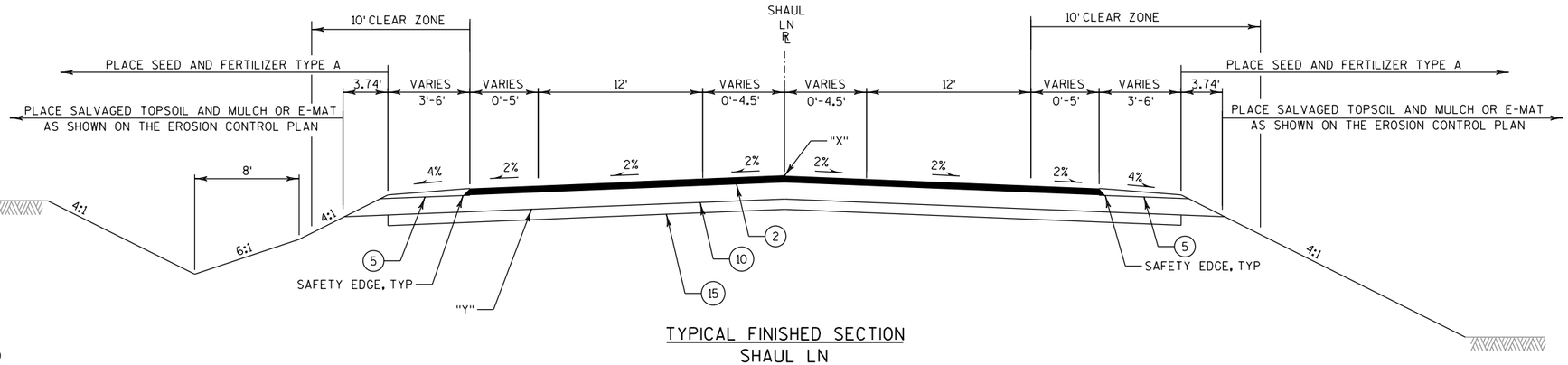
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PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

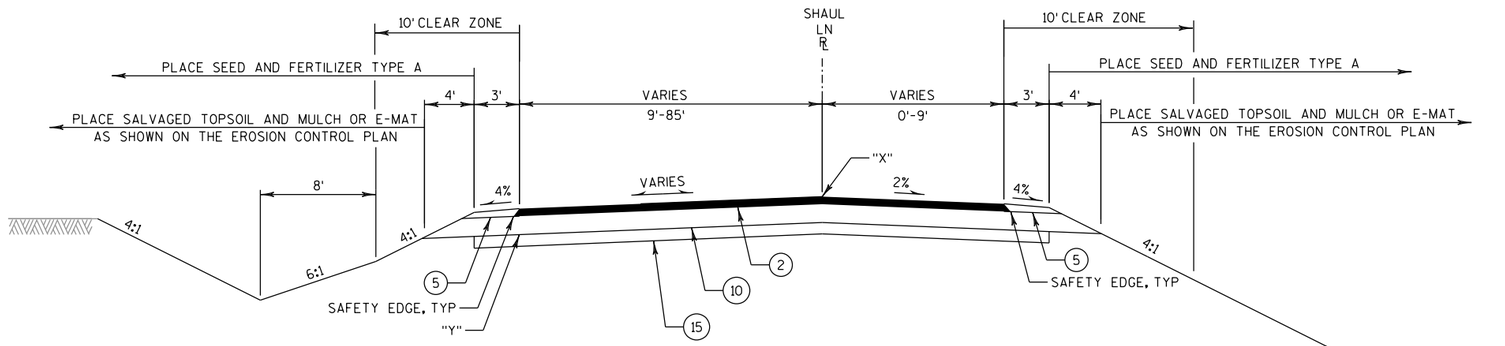
ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - SIDE ROADS	SHEET 25	E

1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
3. 4" HMA PAVEMENT TYPE E-3
4. 5.25" HMA PAVEMENT TYPE E-3
5. 3.5" BASE AGGREGATE DENSE 3/4-INCH
6. 4" BASE AGGREGATE DENSE 3/4-INCH
7. 4.75" BASE AGGREGATE DENSE 3/4-INCH
8. 5.25" BASE AGGREGATE DENSE 3/4-INCH
9. 6" BASE AGGREGATE DENSE 1 1/4-INCH
10. 8" BASE AGGREGATE DENSE 1 1/4-INCH
11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
SHAUL LN
STA 302+90'SH'- STA 315+00'SH'



TYPICAL FINISHED SECTION
SHAUL LN
STA 321+16'SH'- STA 329+46'SH'

NOTES

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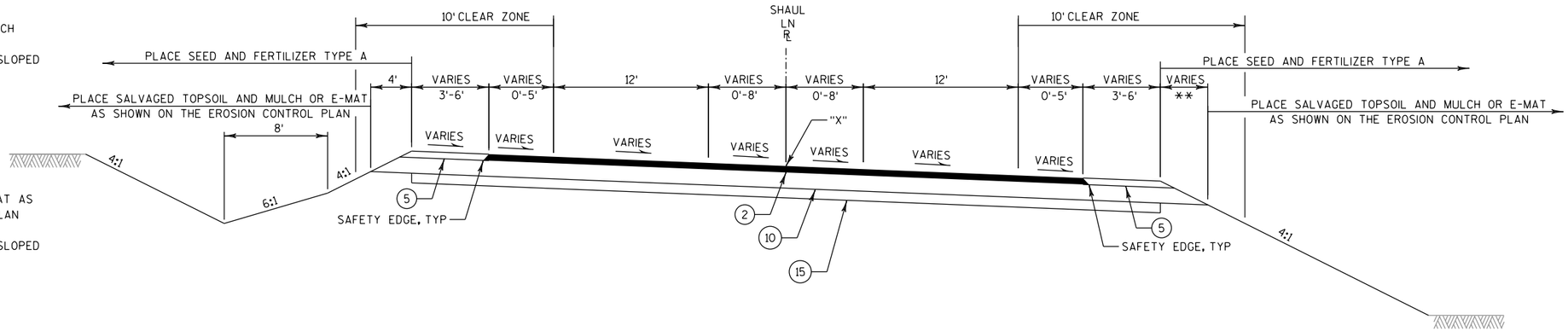
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION.

2

1. CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
2. 3.5" HMA PAVEMENT TYPE E-0.3
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11. 4.75" HMA PAVEMENT TYPE E-3
12. 12" BASE AGGREGATE DENSE 1 1/4-INCH
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
14. 16" SELECT CRUSHED MATERIAL
15. 6" BASE AGGREGATE DENSE 3-INCH
16. CONCRETE SIDEWALK 5-INCH
17. PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN
18. CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
SHAUL LN
IN SUPER ELEVATION

SUPERELEVATION DESCRIPTION	CURVE 1				CURVE 2			
	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄	** LOW SIDE SHOULDER SLOPE WIDTH	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄	** LOW SIDE SHOULDER SLOPE WIDTH
END NORMAL CROWN	301+50.00'SH'	-2.00%	-2.00%	4'	311+09.18'SH'	-2.00%	-2.00%	4'
REVERSE CROWN	302+20.00'SH'	2.00%	-2.00%	--	311+77.18'SH'	-2.00%	2.00%	--
BEGIN FULL SUPER	302+54.00'SH'	4.00%	-4.00%	4.56'	312+08.18'SH'	-3.80%	3.80%	4.46'
END FULL SUPER	304+49.90'SH'	4.00%	-4.00%	4.56'	313+78.08'SH'	-3.80%	3.80%	4.46'
REVERSE CROWN	304+83.90'SH'	2.00%	-2.00%	--	314+09.08'SH'	-2.00%	2.00%	--
BEGIN NORMAL CROWN	305+53.90'SH'	-2.00%	-2.00%	4'	314+77.08'SH'	-2.00%	-2.00%	4'

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION AND THE SHOULDER USES SAME BEGIN/END TRANSITION STATIONS AS PAVEMENT SUPERELEVATION.

THE R/L IS THE POINT OF ROTATION FOR ALL SUPERELEVATIONS.

THE TRANSITIONS IN AND OUT OF SUPERELEVATIONS ARE DESIGNED TO PROVIDE FOR SMOOTH PAVEMENT EDGES. ELEVATIONS THROUGH THE SUPERELEVATION TRANSITIONS ARE REFLECTED ON THE PAVING DETAILS AND CROSS SECTIONS.

2

(1) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED

(2) 3.5" HMA PAVEMENT TYPE E-0.3

(3) 4" HMA PAVEMENT TYPE E-3

(4) 5.25" HMA PAVEMENT TYPE E-3

(5) 3.5" BASE AGGREGATE DENSE 3/4-INCH

(6) 4" BASE AGGREGATE DENSE 3/4-INCH

(7) 4.75" BASE AGGREGATE DENSE 3/4-INCH

(8) 5.25" BASE AGGREGATE DENSE 3/4-INCH

(9) 6" BASE AGGREGATE DENSE 1 1/4-INCH

(10) 8" BASE AGGREGATE DENSE 1 1/4-INCH

(11) 4.75" HMA PAVEMENT TYPE E-3

(12) 12" BASE AGGREGATE DENSE 1 1/4-INCH

(13) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

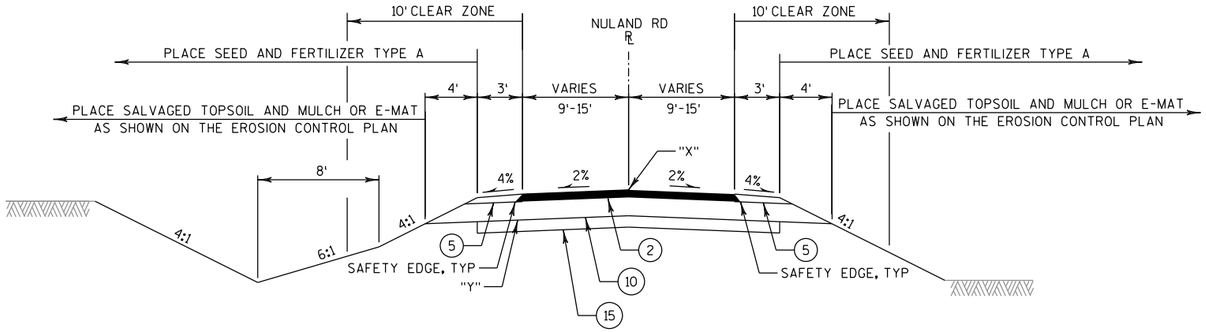
(14) 16" SELECT CRUSHED MATERIAL

(15) 6" BASE AGGREGATE DENSE 3-INCH

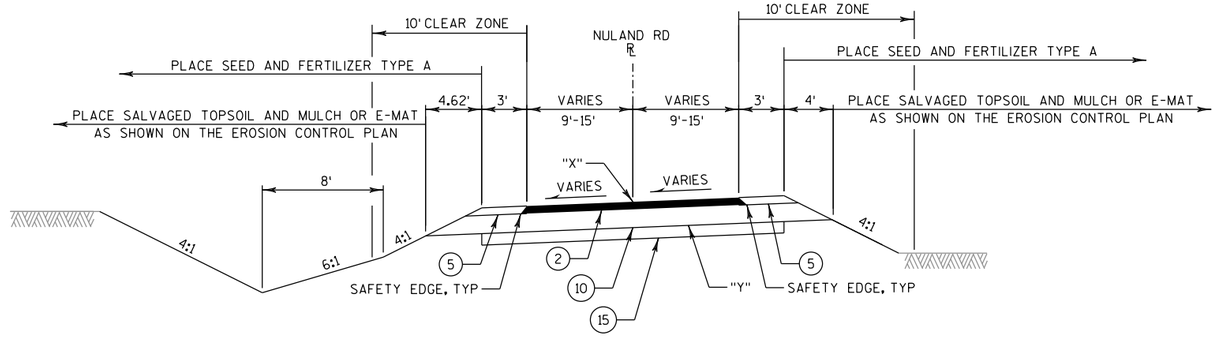
(16) CONCRETE SIDEWALK 5-INCH

(17) PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN

(18) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
NULAND RD
STA 6+50'NU' - STA 10+62'NU'



TYPICAL FINISHED SECTION
NULAND RD
IN SUPERELEVATION

SUPERELEVATION DESCRIPTION	CURVE 1		
	STATION	SLOPE LT OF ℄	SLOPE RT OF ℄
END NORMAL CROWN	7+90.76'NU'	-2.00%	-2.00%
REVERSE CROWN	8+60.76'NU'	-2.00%	2.00%
BEGIN FULL SUPER	8+94.76'NU'	-4.00%	4.00%
END FULL SUPER	9+58.28'NU'	-4.00%	4.00%
REVERSE CROWN	9+92.28'NU'	-2.00%	2.00%
BEGIN NORMAL CROWN	10+62.28'NU'	-2.00%	-2.00%

NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

ROADWAY AND SHOULDER CROSS SLOPE VARIES IN SUPERELEVATION AND THE SHOULDER USES SAME BEGIN/END TRANSITION STATIONS AS PAVEMENT SUPERELEVATION.

2

(1) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED

(2) 3.5" HMA PAVEMENT TYPE E-0.3

(3) 4" HMA PAVEMENT TYPE E-3

(4) 5.25" HMA PAVEMENT TYPE E-3

(5) 3.5" BASE AGGREGATE DENSE 3/4-INCH

(6) 4" BASE AGGREGATE DENSE 3/4-INCH

(7) 4.75" BASE AGGREGATE DENSE 3/4-INCH

(8) 5.25" BASE AGGREGATE DENSE 3/4-INCH

(9) 6" BASE AGGREGATE DENSE 1 1/4-INCH

(10) 8" BASE AGGREGATE DENSE 1 1/4-INCH

(11) 4.75" HMA PAVEMENT TYPE E-3

(12) 12" BASE AGGREGATE DENSE 1 1/4-INCH

(13) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

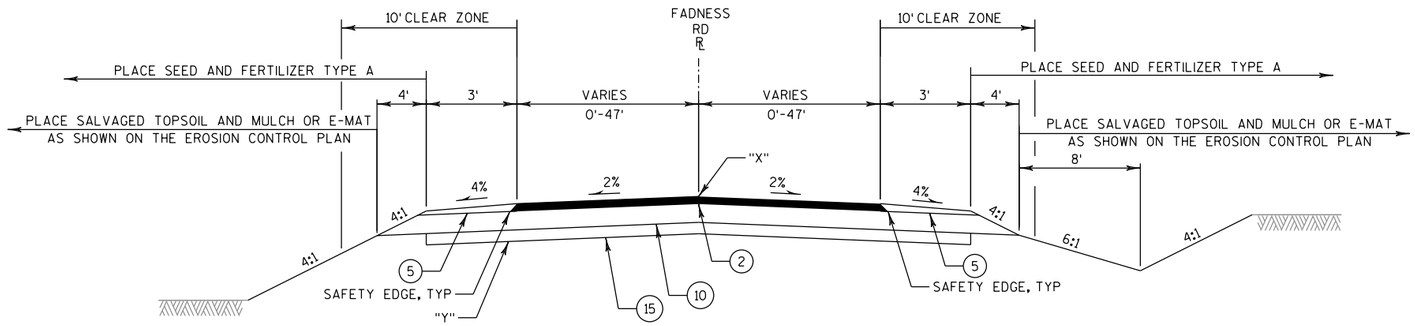
(14) 16" SELECT CRUSHED MATERIAL

(15) 6" BASE AGGREGATE DENSE 3-INCH

(16) CONCRETE SIDEWALK 5-INCH

(17) PLACE SALVAGED TOPSOIL AND E-MAT AS SHOWN ON THE EROSION CONTROL PLAN

(18) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D



TYPICAL FINISHED SECTION
FADNESS RD
STA 6+75'FD' - STA 7+96'FD'

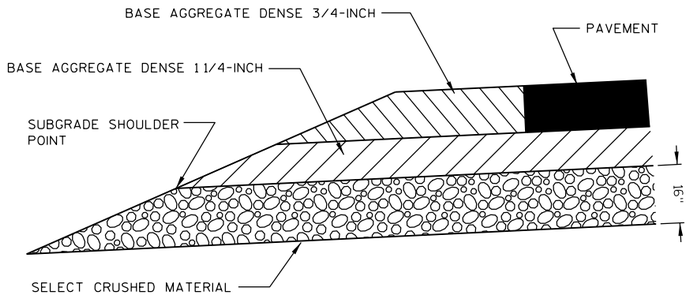
NOTES

"X" = POINT REFERRED TO ON PROFILE (PROFILE GRADE LINE - PGL)

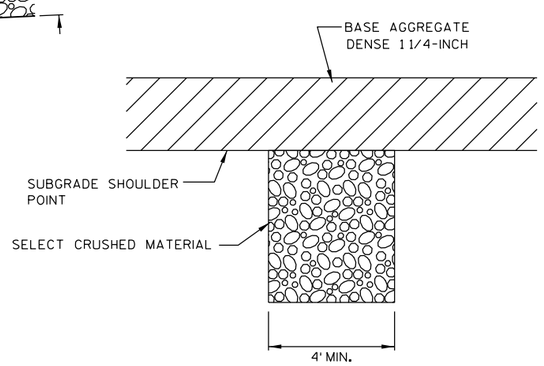
"Y" = SUBGRADE REFERRED TO ON CROSS SECTIONS

PAVEMENT WIDTH VARIES IN TAPERED SECTIONS.

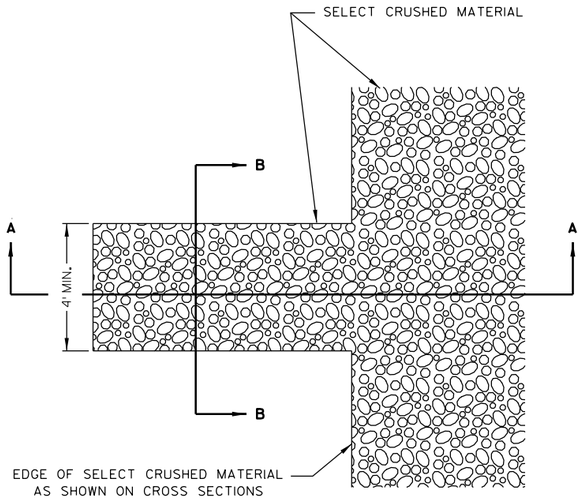
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TYPICAL FINISHED SECTIONS - SIDE ROADS	SHEET 29	E



SECTION A-A



SECTION B-B



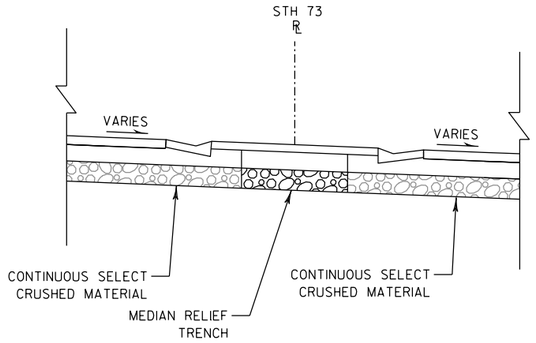
RELIEF TRENCH DETAIL

CONSTRUCT RELIEF TRENCHES AT ROADWAY SAG POINTS OR EVERY 200' - 300' AT THE LOCATIONS LISTED BELOW.

(ALL OTHER LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER)

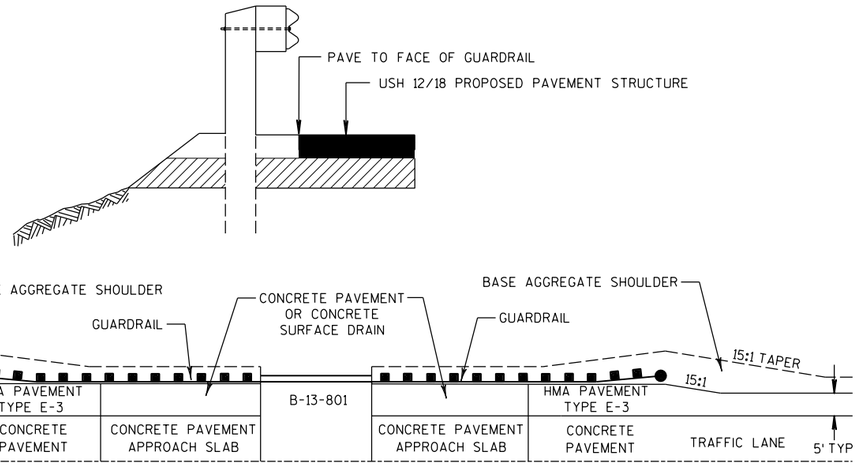
EXCAVATION REQUIRED TO CONSTRUCT RELIEF TRENCH INCLUDED TO THE ITEM SELECT CRUSHED MATERIAL

STH 73	JUG RAMP B
619+90	2002+90'JB'
621+60	2005+40'JB'
630+90	2007+80'JB'
633+90	
588+00	



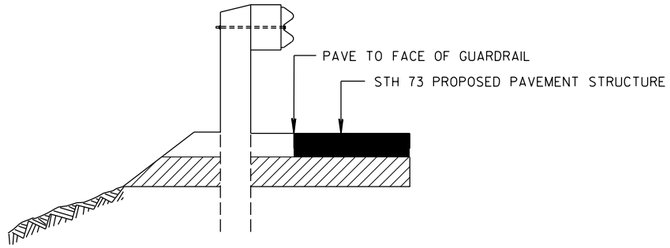
MEDIAN RELIEF TRENCH

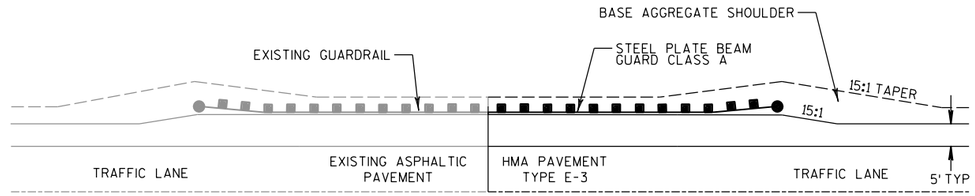
STH 73
614+00
616+00
618+00
620+00



ASPHALTIC SHOULDER AT GUARDRAIL DETAIL

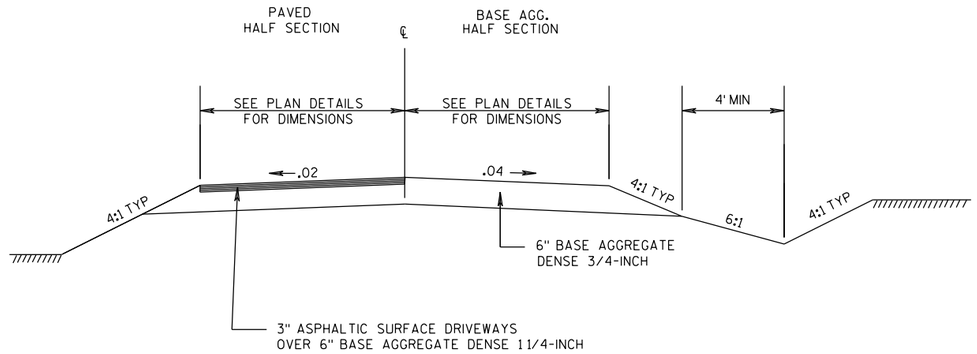
USH 12/18
STA 660+54'B' - STA 667+17'B'





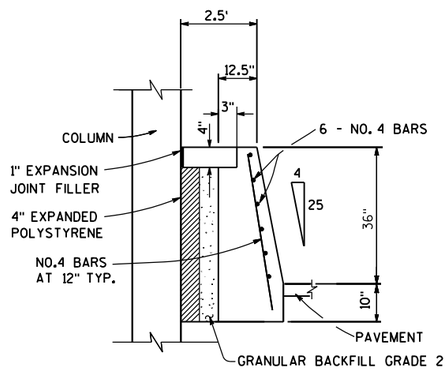
ASPHALTIC SHOULDER AT GUARDRAIL DETAIL

STH 73
STA 653+26 - STA 655+10



NOTE:
DRIVEWAY PROFILE GRADE AS SHOWN ON THE CROSS SECTIONS.

RURAL DRIVEWAY TYPICAL SECTION DETAIL

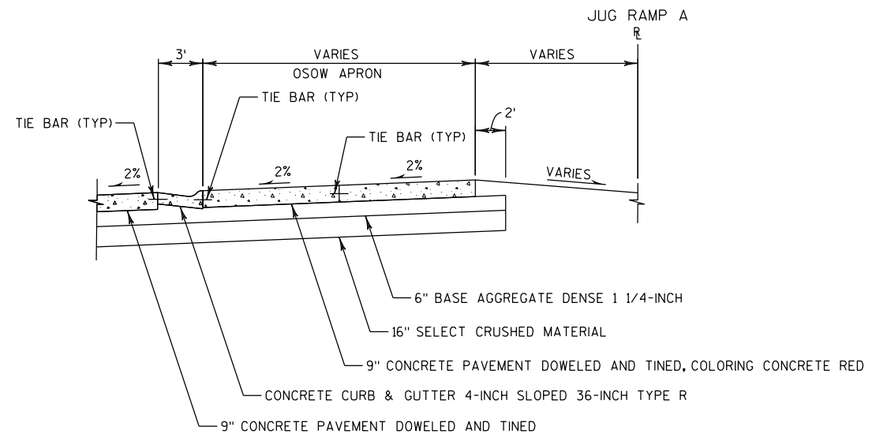


SECTION C-C

CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36 DETAIL

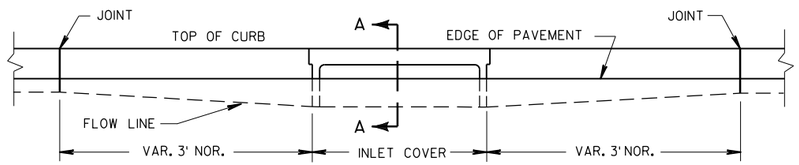
REPLACES SECTION C-C OF SDD "CONCRETE BARRIER FIXED OBJECT PROTECTION" SEE SDD FOR ALL OTHER DETAILS

STA 623+87 - STA 626+20 (STH 73)

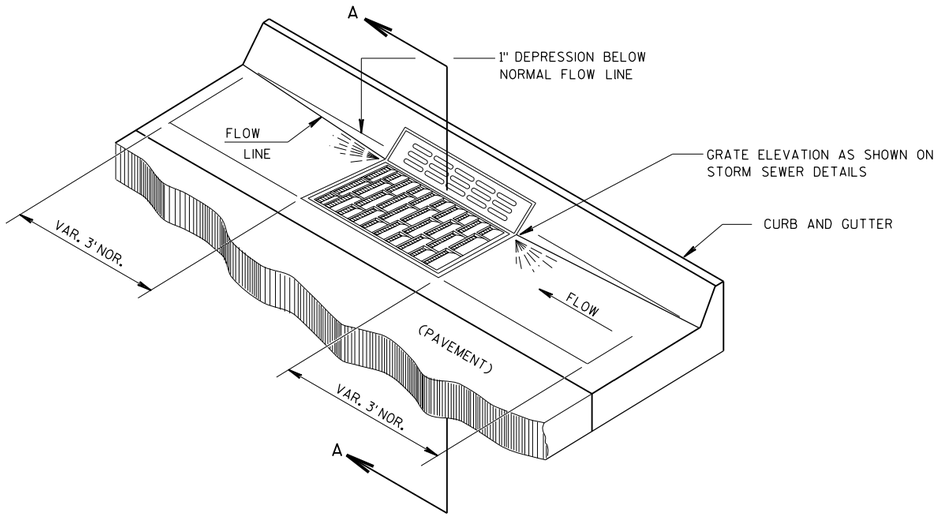


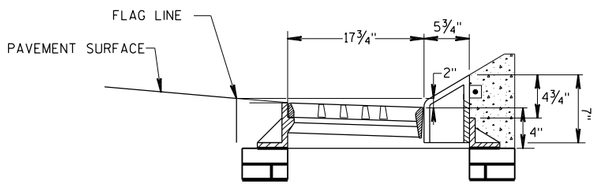
OSOW APRON DETAIL

STA 1003+15'JA' - STA 1004+70'JA'LT



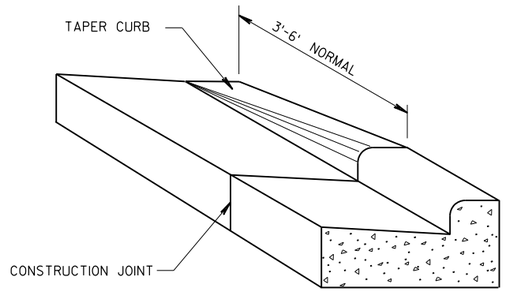
ELEVATION



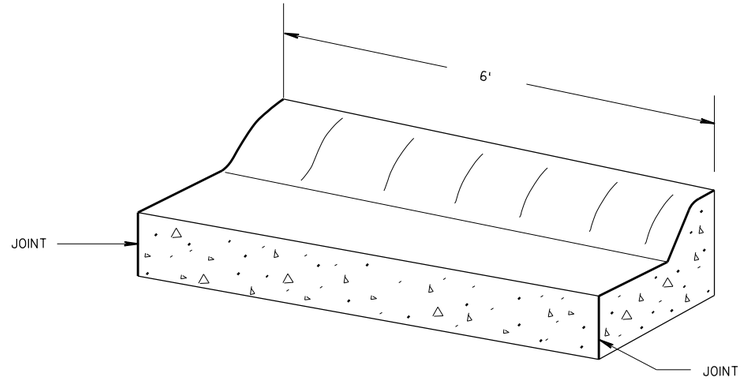


SECTION A-A

CURB AND GUTTER AT TYPE HM INLET COVERS DETAIL



CURB & GUTTER TERMINI DETAIL

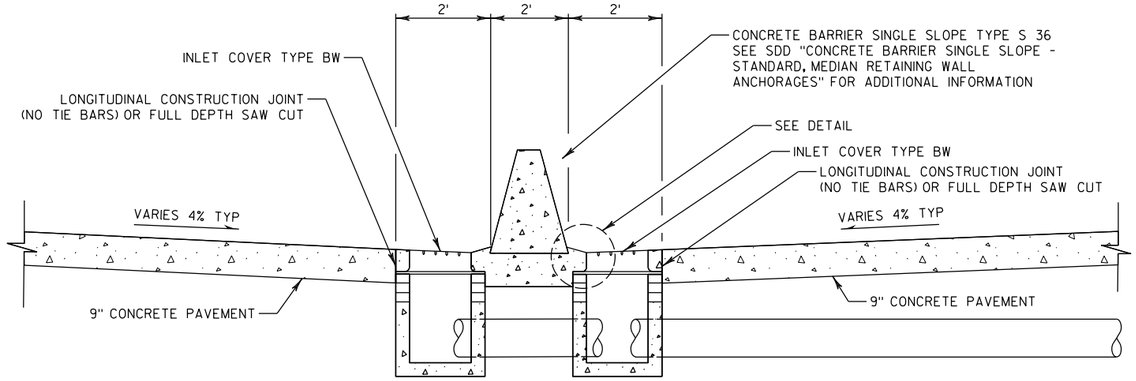


CONCRETE CURB AND GUTTER TRANSITION DETAIL

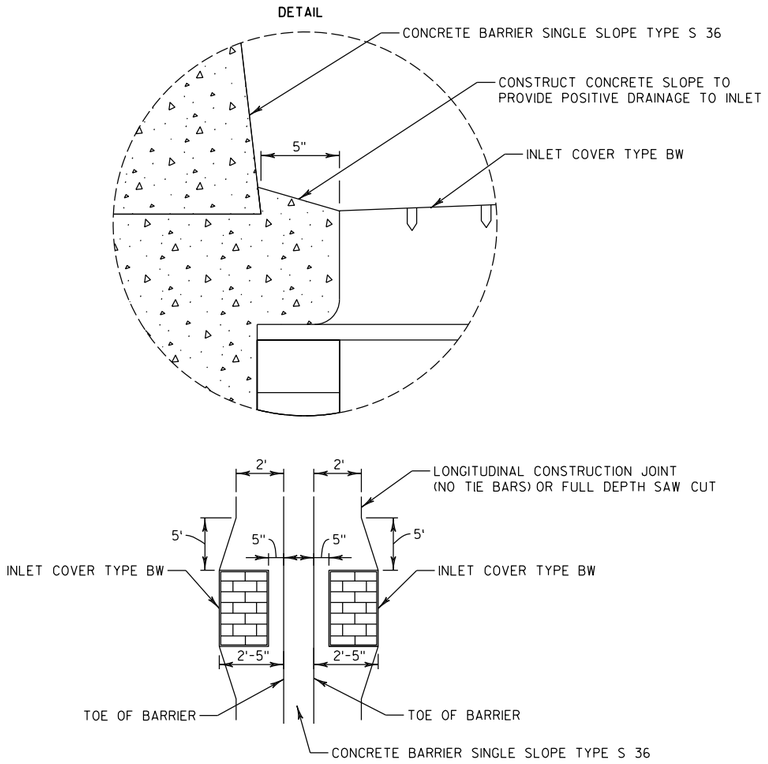
CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A/D TO
CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R

(TO BE MEASURED & PAID FOR AS CONCRETE CURB & GUTTER 4-INCH
SLOPED 36-INCH TYPE R)

STA 677+54'B' RT
STA 1003+15'JA' RT



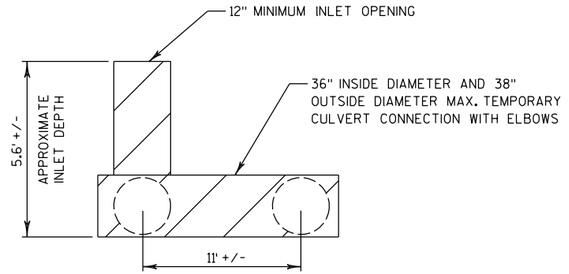
PROFILE VIEW



PLAN VIEW

CONCRETE BARRIER INLET & JOINT DETAIL

USH 12/18
STA 648+50'B' - STA 694+00'B'LT & RT

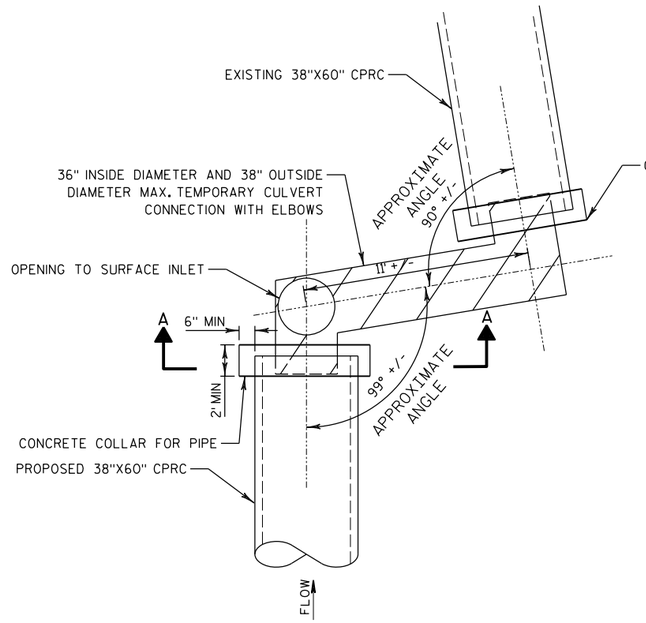


PROFILE VIEW

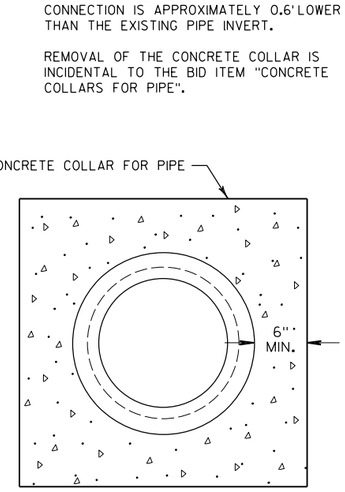
NOTES:

PROPOSED PIPE INVERT AT THE TEMPORARY CONNECTION IS APPROXIMATELY 0.6'LOWER THAN THE EXISTING PIPE INVERT.

REMOVAL OF THE CONCRETE COLLAR IS INCIDENTAL TO THE BID ITEM "CONCRETE COLLARS FOR PIPE".



PLAN VIEW

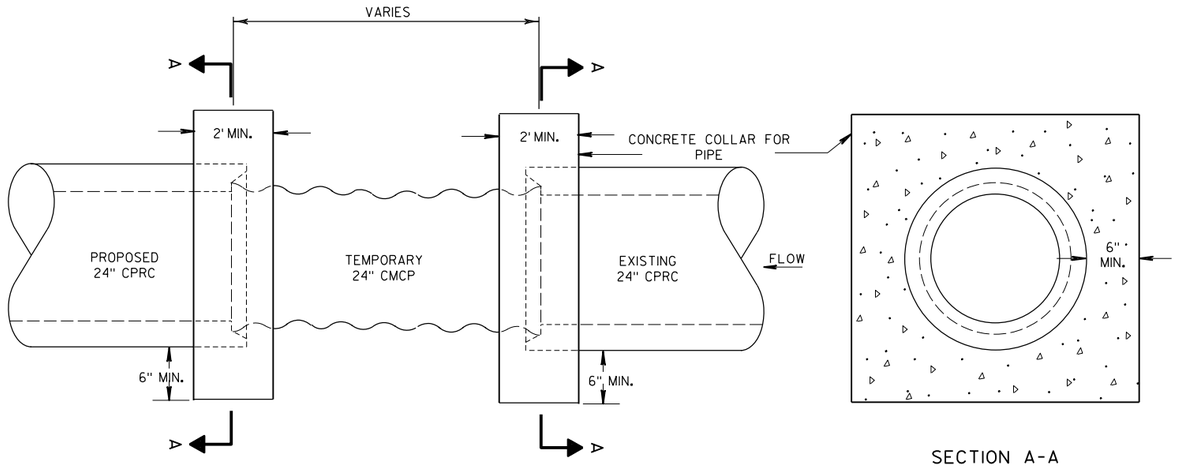


SECTION A-A

TEMPORARY CULVERT PIPE CONNECTION DETAIL

USH 12/18
STA 644+93'BE'RT

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 33	E



SECTION A-A

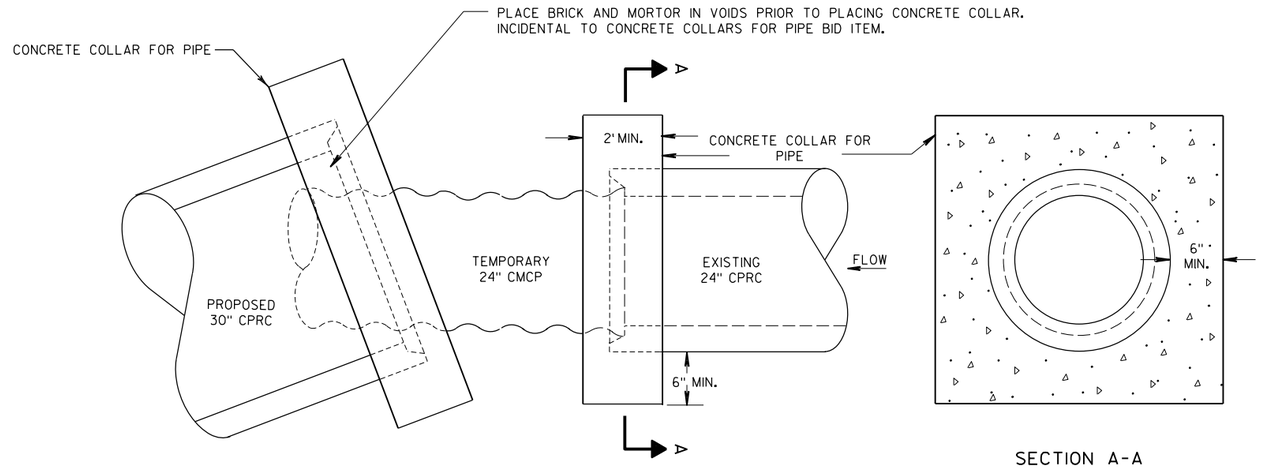
NOTES:

PROPOSED PIPE INVERT AT THE TEMPORARY CONNECTION IS APPROXIMATELY 1.5' LOWER THAN THE EXISTING PIPE INVERT.

REMOVAL OF THE CONCRETE COLLAR IS INCIDENTAL TO THE BID ITEM "CONCRETE COLLARS FOR PIPE".

REINFORCED CONCRETE CULVERT PIPE TO TEMPORARY CORRUGATED METAL CULVERT PIPE CONNECTION DETAIL

USH 12/18
STA 687+63'B'RT



SECTION A-A

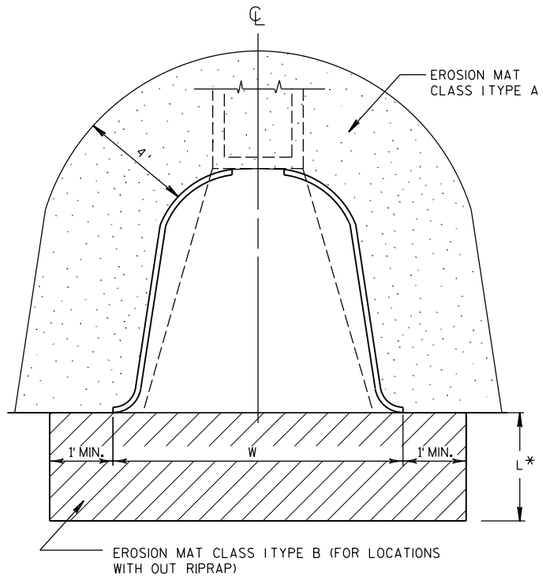
NOTES:

PROPOSED PIPE INVERT AT THE TEMPORARY CONNECTION IS APPROXIMATELY 1.8' LOWER THAN THE EXISTING PIPE INVERT.

REMOVAL OF THE CONCRETE COLLAR IS INCIDENTAL TO THE BID ITEM "CONCRETE COLLARS FOR PIPE".

REINFORCED CONCRETE CULVERT PIPE TO TEMPORARY CORRUGATED METAL CULVERT PIPE CONNECTION DETAIL

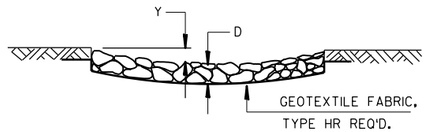
USH 12/18
STA 681+01'B'RT



L = 2W (TYP)
INCREASE IF WARRANTED

* TO BE DETERMINED BY ENGINEER IN THE FIELD

EROSION MAT DETAIL AT APRON ENDWALLS

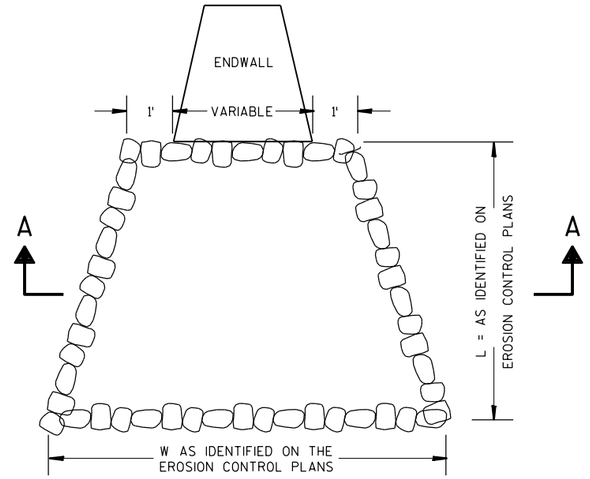


SECTION A-A

D = 18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

Y = 0' FOR TYPICAL CULVERT
DISCHARGE INTO DITCH

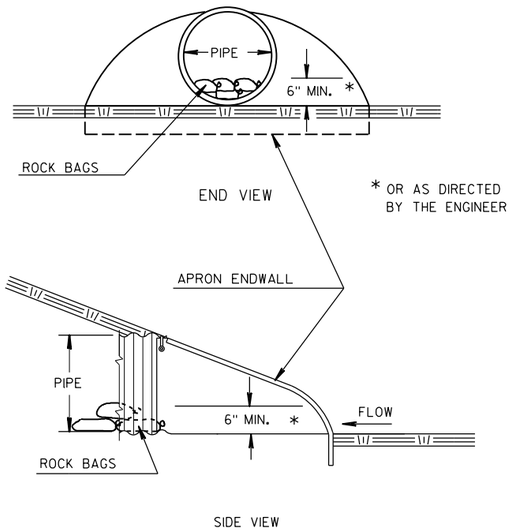
12" FOR CULVERT DISCHARGE
DOWN EMBANKMENT SLOPE



NOTE:
RIP RAP DIMENSIONS CALLED OUT AS
W X L ON EROSION CONTROL PLANS

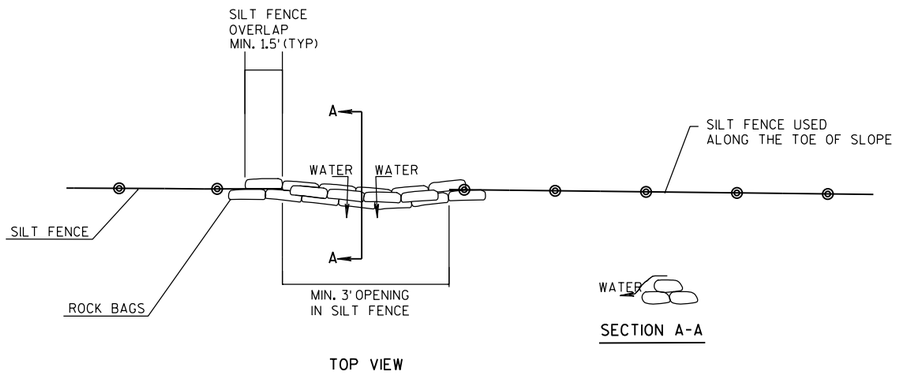
RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

(SEE EROSION CONTROL PLANS FOR LOCATIONS)



SIDE VIEW

CULVERT PIPE CHECKS DETAIL

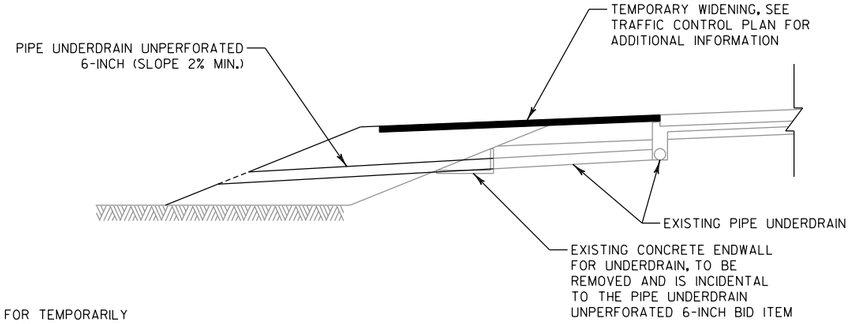


SECTION A-A

TOP VIEW

SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS

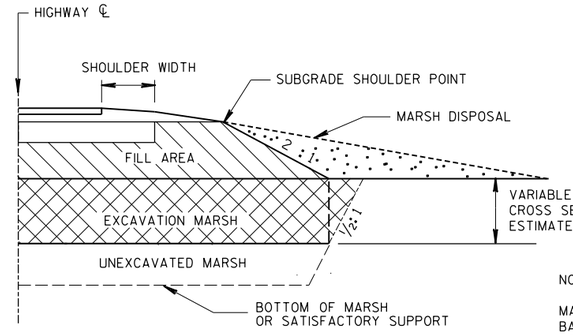


NOTE:

REMOVE THE PIPE UNDER DRAIN USED FOR TEMPORARILY EXTENDING THE EXISTING UNDERDRAIN ONCE THE TEMPORARY WIDENING IS REMOVED. RECONNECT THE EXISTING PIPE UNDERDRAIN TO A NEW APRON ENDWALL FOR PIPE UNDERDRAIN. ALL WORK IN ORDER TO COMPLETE THE REMOVALS AND RECONNECTING THE APRON ENDWALL TO THE EXISTING PIPE UNDERDRAIN IS INCIDENTAL TO THE BID ITEM APRON ENDWALLS FOR PIPE UNDERDRAIN REINFORCED CONCRETE 6-INCH.

PIPE UNDERDRAIN TEMPORARY EXTENSION DETAIL

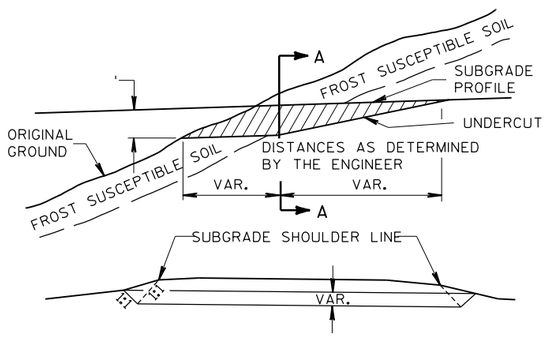
STAGE 2	STAGE 3
STA 625+49'B'LT	STA 622+87'B'RT
STA 630+49'B'LT	STA 625+48'B'RT
STA 697+40'B'LT	STA 704+05'B'RT
STA 697+41'B'LT	
STA 701+67'B'LT	
STA 704+06'B'LT	



NOTE:

MARSH EXCAVATION IS TO BE BACKFILLED WITH BACKFILL GRANULAR MATERIAL EXCEPT IN LOCATIONS WITH AN EXPOSED WATER TABLE WHERE MARSH EXCAVATION IS TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL

EXCAVATION MARSH DETAIL

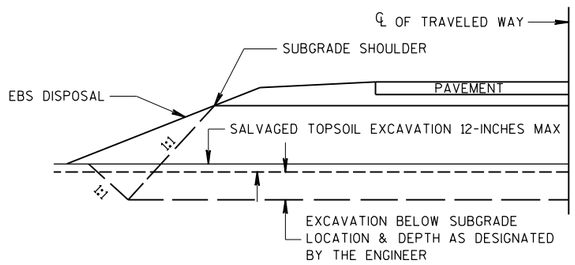


EXCAVATION BELOW SUBGRADE AT CUTS DETAIL

NOTE:

EBS EXCAVATION IS TO BE BACKFILLED WITH BACKFILL GRANULAR MATERIAL EXCEPT IN LOCATIONS WITH AN EXPOSED WATER TABLE WHERE EBS EXCAVATION IS TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.

THE FILL SECTION WITHIN 100'OF THE MOUTH OF THE CUT MUST BE KEPT 2'BELOW SUBGRADE UNTIL EBS IS COMPLETED.

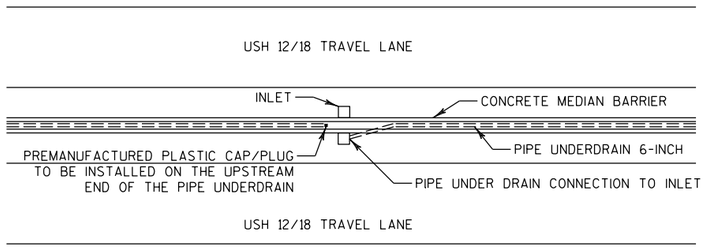


EXCAVATION BELOW SUBGRADE DETAIL

NOTE:

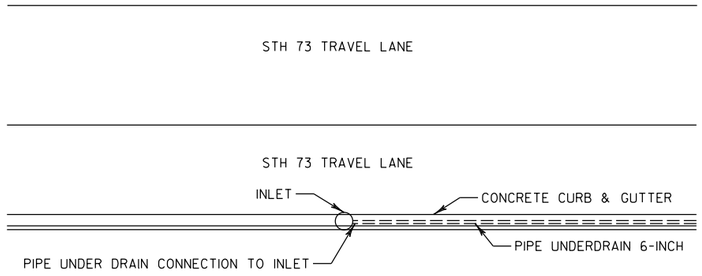
EBS EXCAVATION IS TO BE BACKFILLED WITH BACKFILL GRANULAR MATERIAL EXCEPT IN LOCATIONS WITH AN EXPOSED WATER TABLE WHERE EBS EXCAVATION IS TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL

2



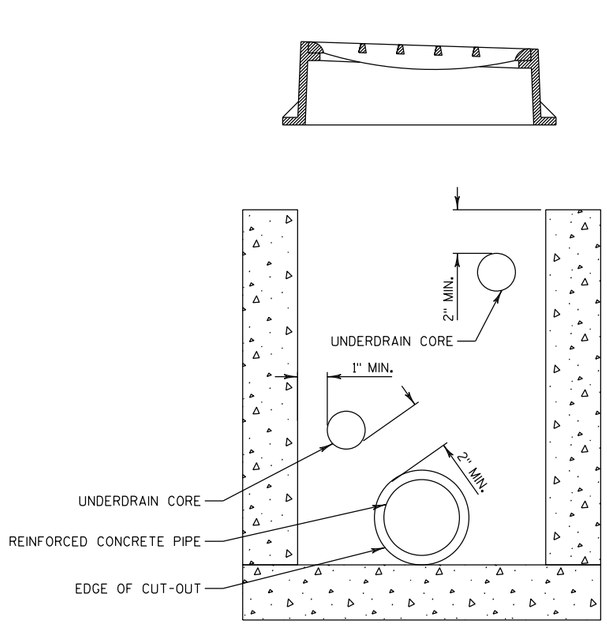
PIPE UNDERDRAIN CONNECTION TO INLET STRUCTURE DETAIL (USH 12/18)

STA 649+40'B'
STA 653+00'B'
STA 657+00'B'
STA 671+00'B'
STA 675+00'B'
STA 679+28'B'
STA 683+00'B'



PIPE UNDERDRAIN CONNECTION TO INLET STRUCTURE DETAIL (STH 73)

STA 623+50 RT
STA 625+50 RT



UNDERDRAIN CORE IN INLET DETAIL

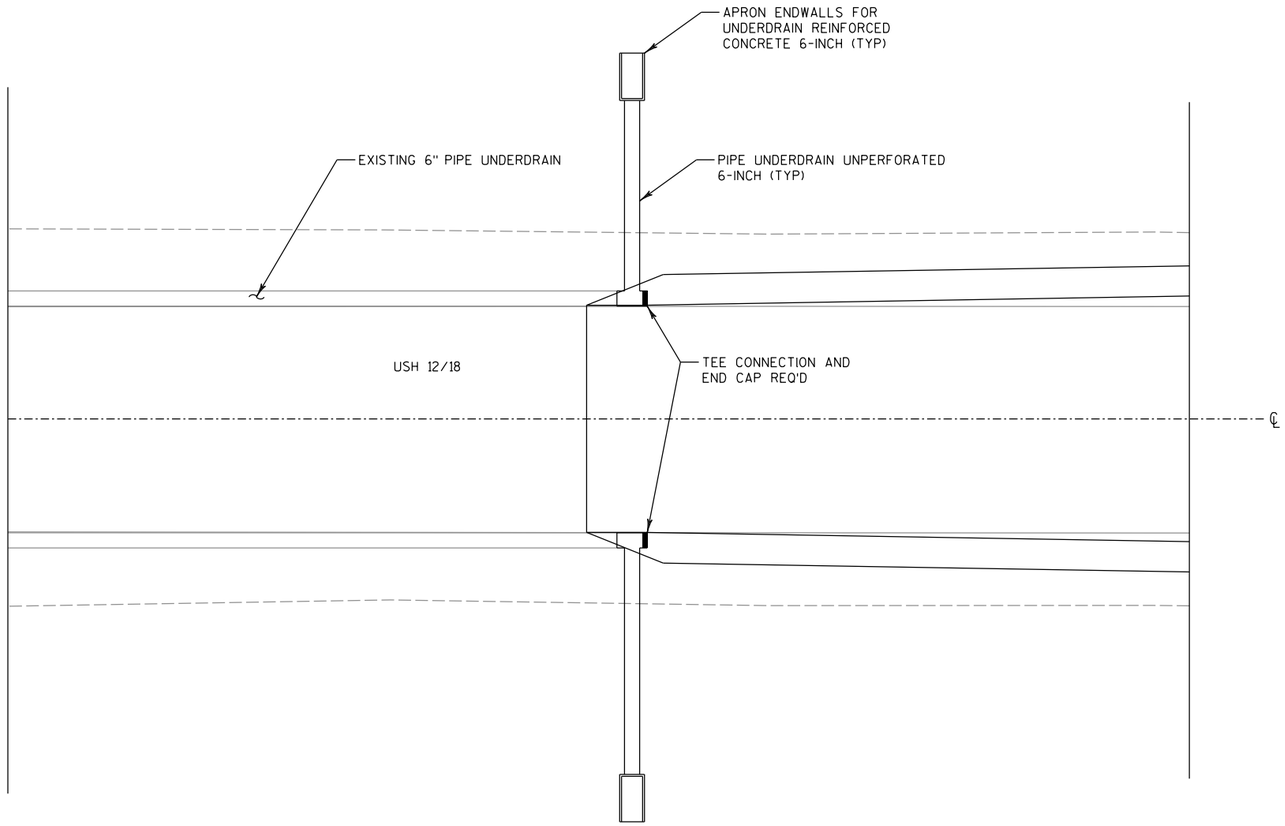
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 37	E

NOTES:

PAYMENT FOR FURNISHING AND INSTALLING THE TEE CONNECTION AND END CAP TO THE UNDERDRAIN IS INCIDENTAL TO THE ITEM PIPE UNDERDRAIN UNPERFORATED 6-INCH.

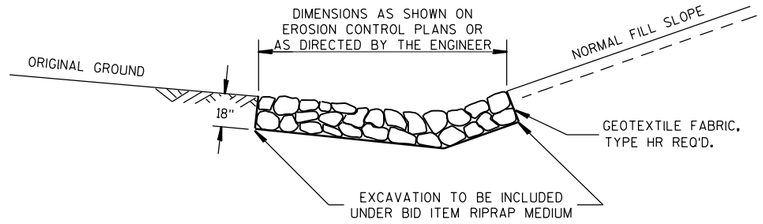
MAINTAIN A MINIMUM OF 2.0% SLOPE ON THE PIPE UNDERDRAIN AND EXTEND THE PIPE UNDERDRAIN OUT TO THE FORESLOPE OF THE ROADWAY.

SEE SDD: "REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN" FOR ADDITIONAL INFORMATION

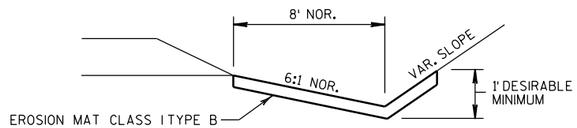


PIPE UNDERDRAIN TERMINATION DETAIL

USH 12/18
STA 628+55'B'LT & RT
STA 701+95'B'LT & RT



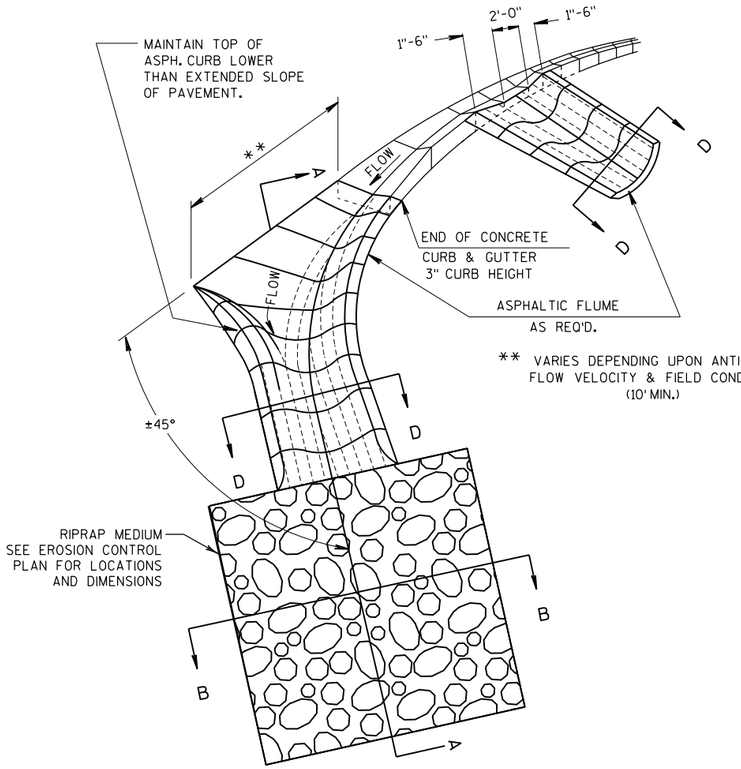
DETAIL FOR RIPRAP MEDIUM IN DITCHES



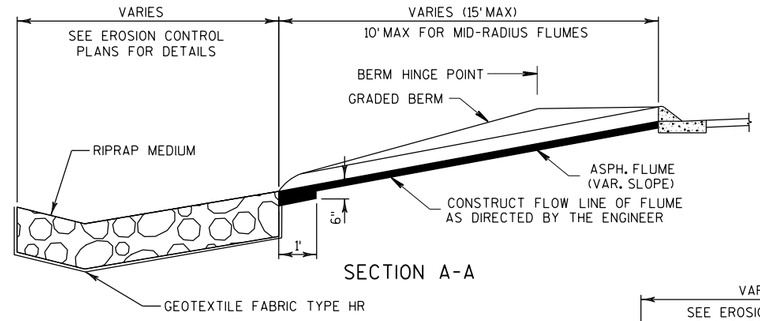
EROSION MAT DETAIL FOR DITCHES

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 38	E

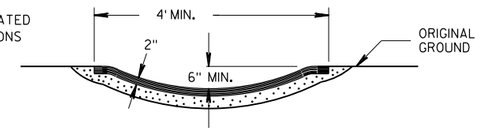
2



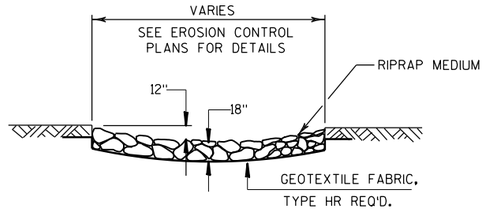
** VARIES DEPENDING UPON ANTICIPATED FLOW VELOCITY & FIELD CONDITIONS (10' MIN.)



SECTION A-A



SECTION D-D

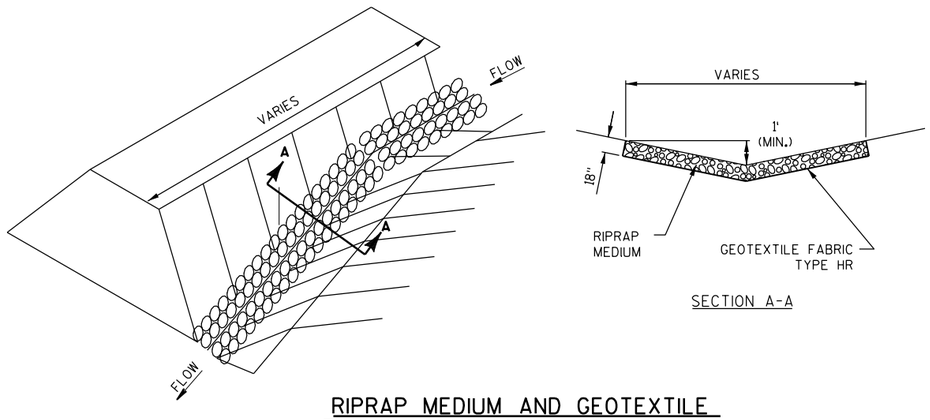


SECTION B-B

ASPHALTIC FLUME DETAIL

SEE EROSION CONTROL & PLAN AND PROFILE SHEETS FOR LOCATIONS.

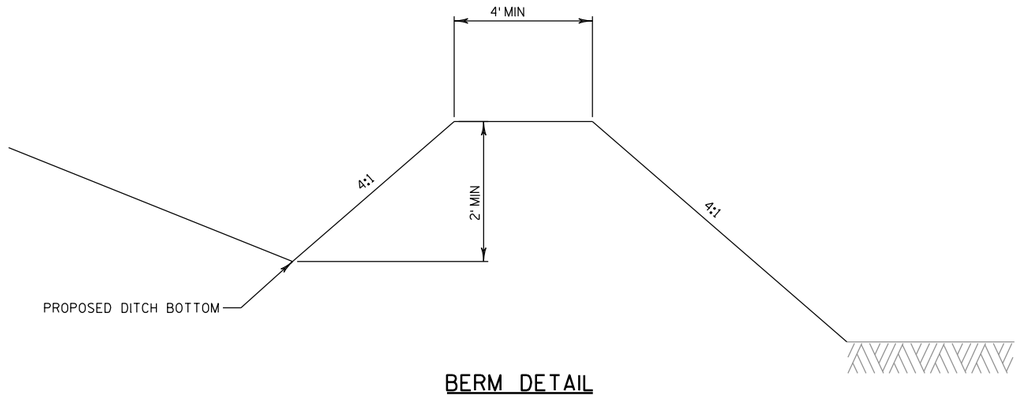
SEE SDD "CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES" FOR ADDITIONAL DETAILS.



SECTION A-A

RIPRAP MEDIUM AND GEOTEXTILE FABRIC TYPE HR AT CUT TO FILL TRANSITION DETAIL

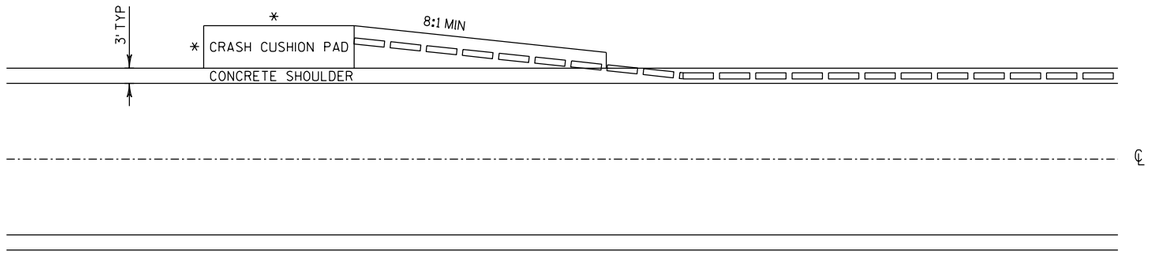
SEE EROSION CONTROL PLANS FOR LOCATIONS AND DIMENSIONS

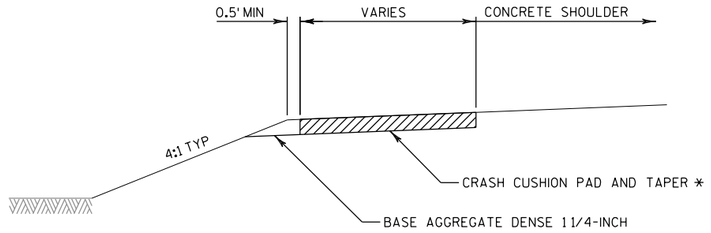


BERM DETAIL

STH 73
STA 638+11 RT - STA 642+82 RT

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET 39	E

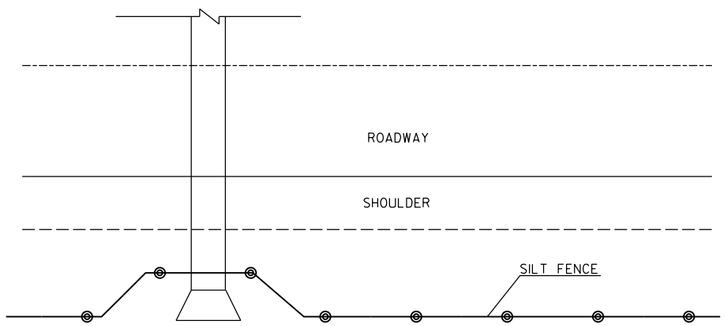




*CRASH CUSHION PAD DIMENSIONS AS SPECIFIED BY MANUFACTURER
(INCIDENTAL TO TEMPORARY CRASH CUSHION)

TEMPORARY CRASH CUSHION PAD DETAIL

NOTE:
SEE SDD: "SILT FENCE" AND THE EROSION CONTROL PLANS FOR A ADDITIONAL INFORMATION

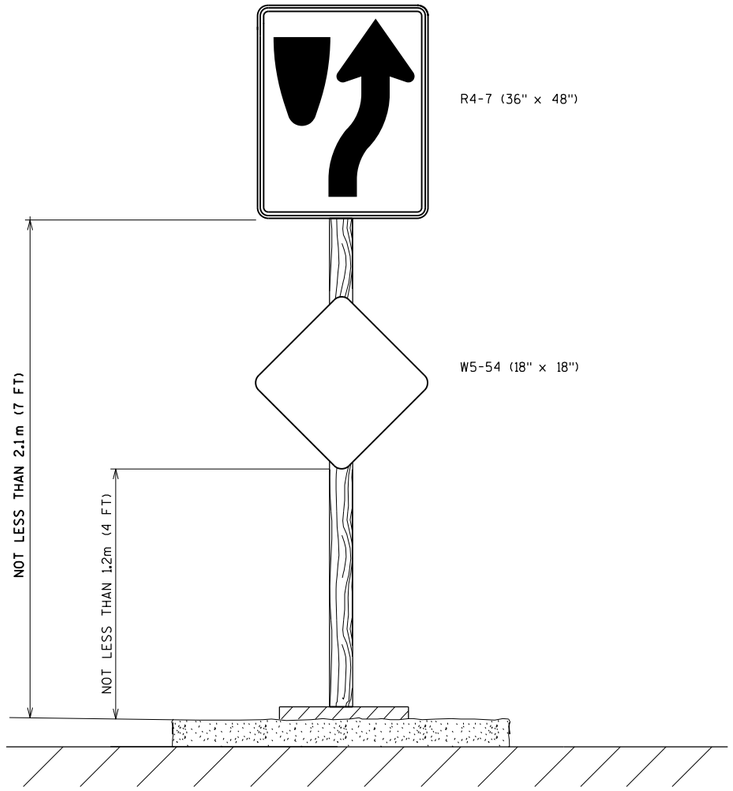


SILT FENCE PLACEMENT AT PIPE INLETS DETAIL

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											

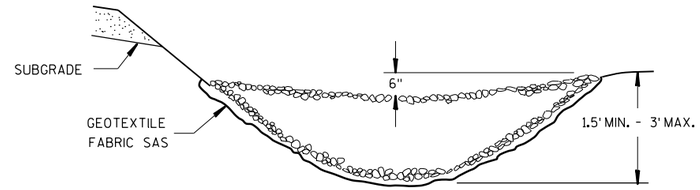
TOTAL PROJECT AREA = 101.6 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 82.4 ACRES



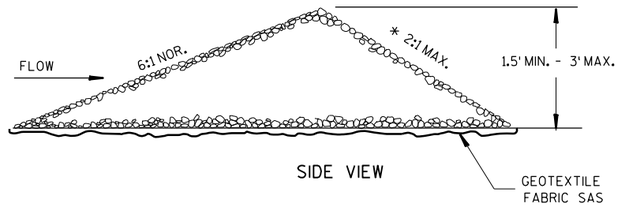
TYPICAL INSTALLATION FOR
TRANSITION TO DIVIDED HIGHWAY
OR OTHER SPECIAL NEEDS AREAS

R4-7 INSTALLATION DETAIL

SEE SIGNING PLANS
FOR PROPOSED SIGN LOCATIONS



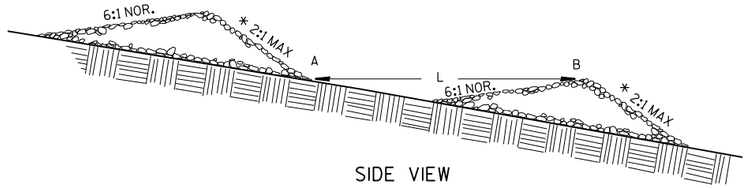
CROSS SECTIONAL VIEW



SIDE VIEW

L = THE DISTANCE SUCH THAT POINTS
A AND B ARE OF EQUAL ELEVATION

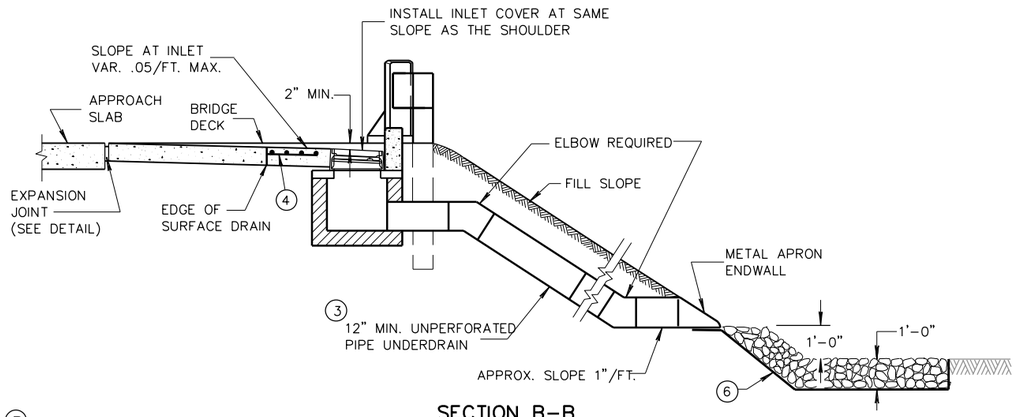
* 4:1 MAX WHEN PLACED IN CLEAR ZONE



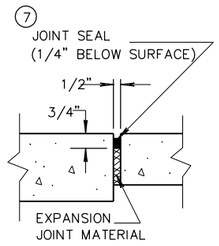
SIDE VIEW

TEMPORARY STONE DITCH CHECK DETAIL

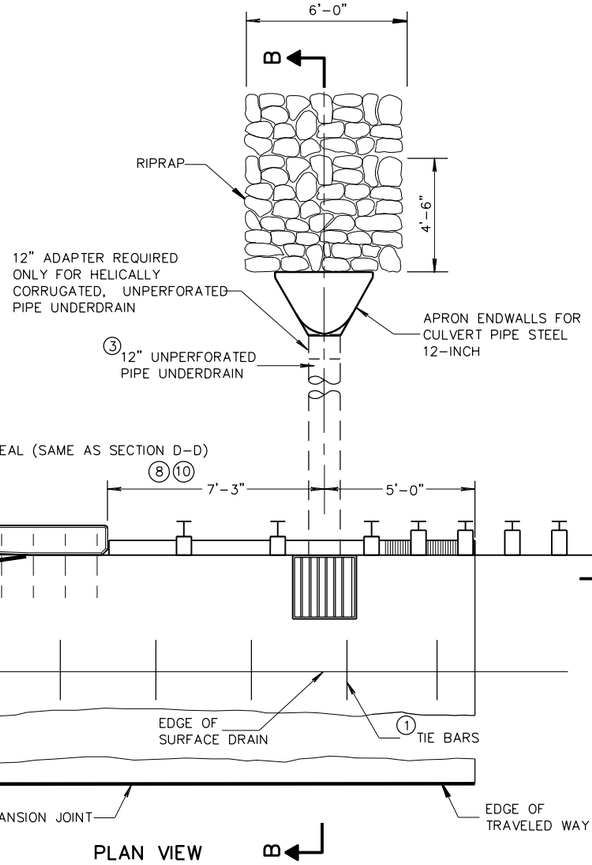
SEE EROSION CONTROL PLANS AND MISCELLANEOUS
QUANTITIES FOR PROPOSED LOCATIONS



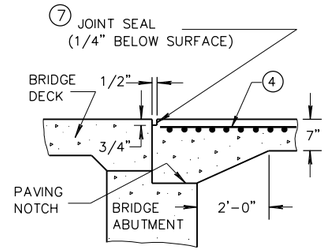
SECTION B-B



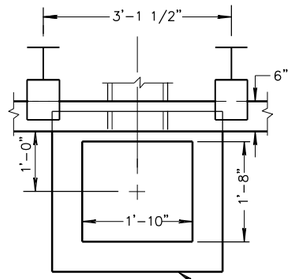
EXPANSION JOINT DETAIL



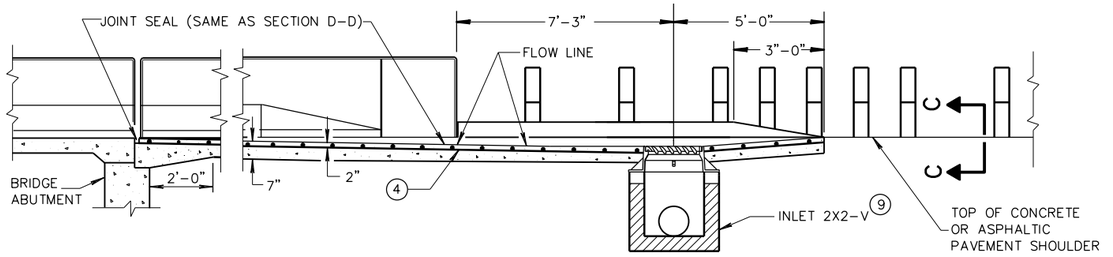
PLAN VIEW



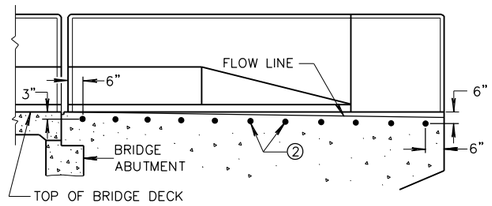
SECTION D-D



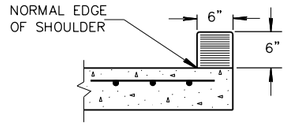
PLAN VIEW



SECTION A-A



LOCATION OF TIE BARS IN WINGWALL



SECTION C-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.

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

(1) NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" CENTERS TO BE USED ONLY WHEN ADJACENT TO P.C. CONCRETE.

(2) NO. 4 X 2'-0" TIE BARS SPACED AT 12" CENTERS TO BE PLACED BY BRIDGE CONTRACTOR, OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) THE PIPE UNDERDRAIN MAY BE ANY ONE OF THE SIX MATERIALS LISTED IN THE STANDARD SPECIFICATIONS SECTION 612.2 EXCEPT DRAIN TILE.

(4) MINIMUM REINFORCEMENT SHALL BE 6" X 6" – W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.

(5) GEOTEXTILE FABRIC, TYPE 'R' OR TYPE 'HR', DEPENDENT ON RIPRAP TYPE

(6) HOT POURED SEALANT UNLESS OTHERWISE SPECIFIED.

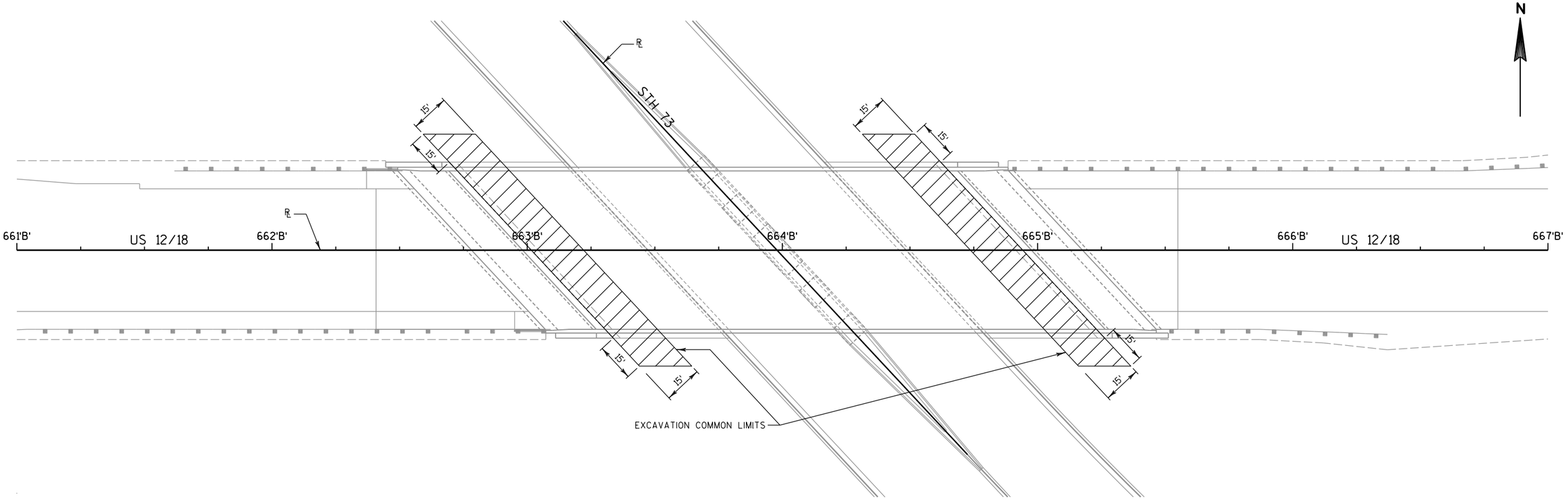
(7) THIS DIMENSION MAY VARY DEPENDING ON THE SPACING OF POSTS FOR THE STEEL PLATE BEAM GUARD. THE TYPICAL LOCATION FOR THE SURFACE DRAIN IS WHERE THE POST SPACING IS 3'-1 1/2", PRIOR TO THE REDUCED SPACING OF 1'-6 3/4".

(8) SEE CURRENT STANDARD DETAIL DRAWINGS 8A5 AND 8C7 FOR DETAILS.

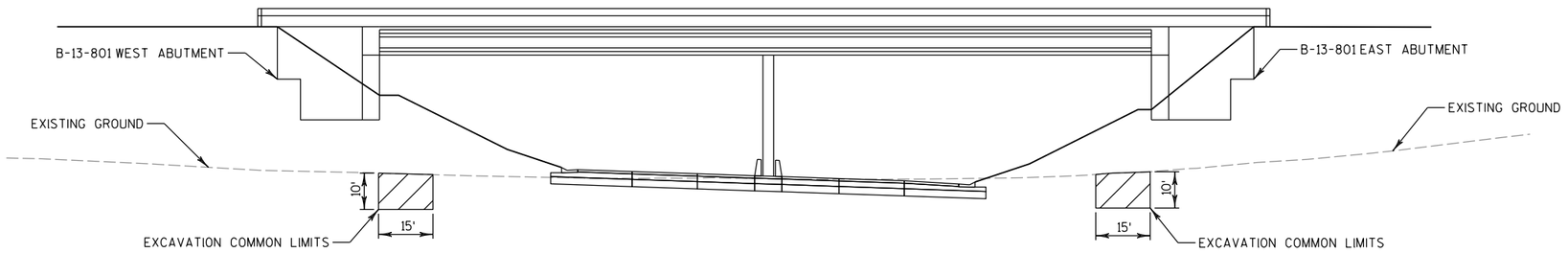
(9) SEE CURRENT STANDARD DETAIL DRAWING 14B45 FOR MGS POST SPACING DETAILS.

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES DETAIL

STA 662+42'B'
STA 663+00'B'



PLAN VIEW



ELEVATION VIEW

NOTE:

ALL EXCAVATION LIMIT DIMENSIONS ARE APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER IN THE FIELD

ADDITIONAL EXCAVATIONS COMMON AT BRIDGE ABUTMENTS

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CONSTRUCTION DETAIL	SHEET 43	E

2

HIGH WATER$_2$ EL. = 847.34

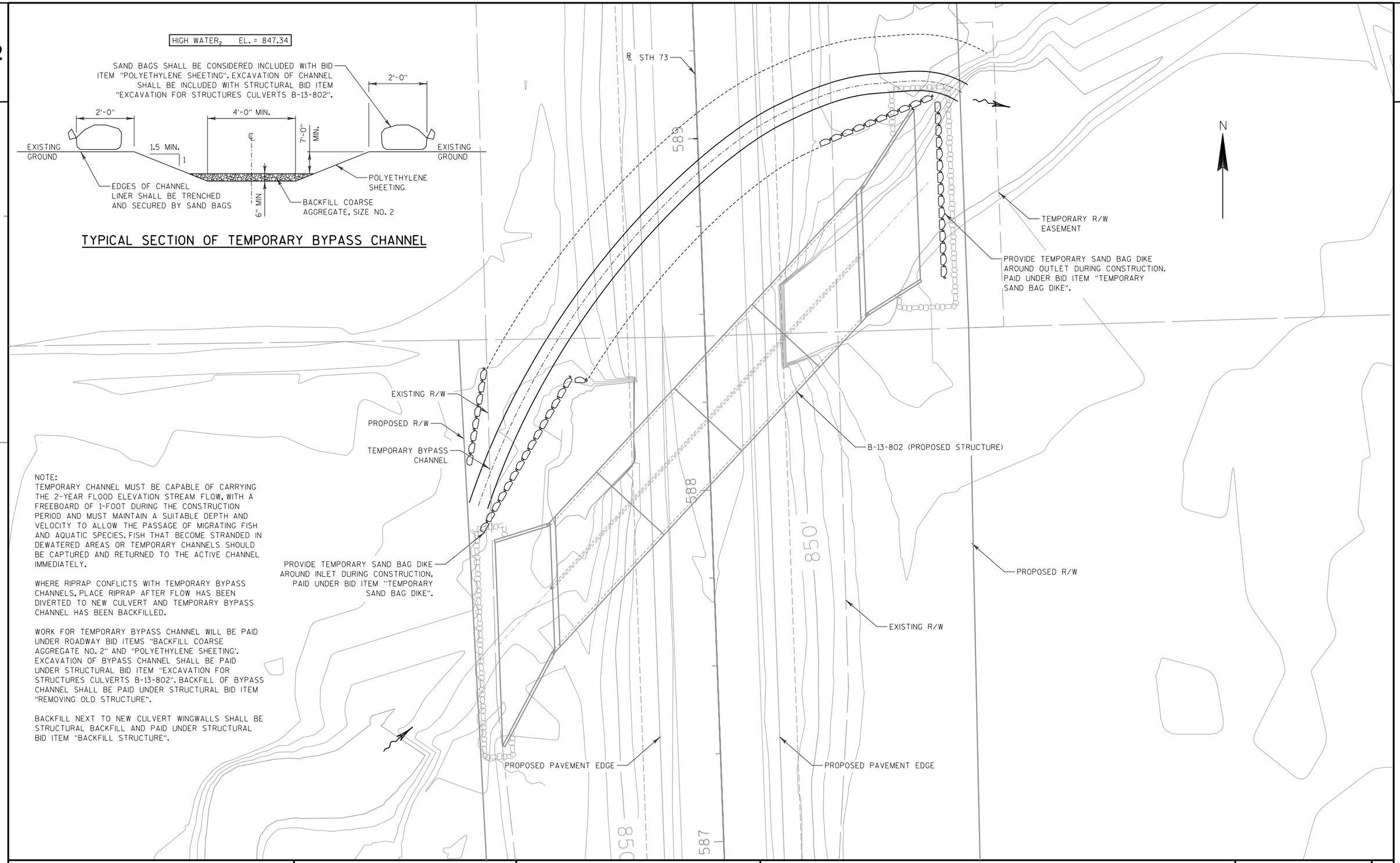
TYPICAL SECTION OF TEMPORARY BYPASS CHANNEL

NOTE:
TEMPORARY CHANNEL MUST BE CAPABLE OF CARRYING THE 2-YEAR FLOOD ELEVATION STREAM FLOW, WITH A FREEBOARD OF 1-FOOT DURING THE CONSTRUCTION PERIOD AND MUST MAINTAIN A SUITABLE DEPTH AND VELOCITY TO ALLOW THE PASSAGE OF MIGRATING FISH AND AQUATIC SPECIES. FISH THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL IMMEDIATELY.

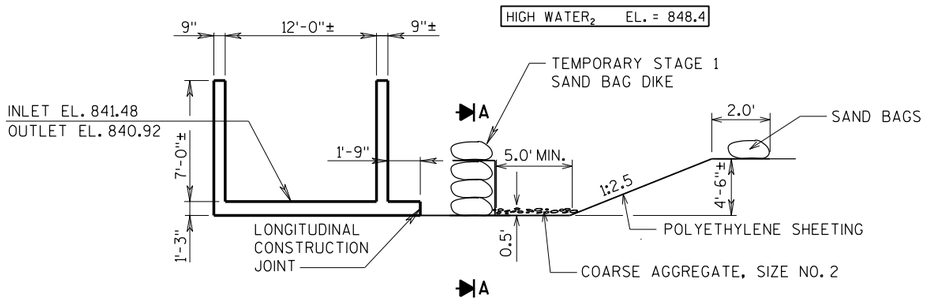
WHERE RIPRAP CONFLICTS WITH TEMPORARY BYPASS CHANNELS, PLACE RIPRAP AFTER FLOW HAS BEEN DIVERTED TO NEW CULVERT AND TEMPORARY BYPASS CHANNEL HAS BEEN BACKFILLED.

WORK FOR TEMPORARY BYPASS CHANNEL WILL BE PAID UNDER ROADWAY BID ITEMS "BACKFILL COARSE AGGREGATE NO. 2" AND "POLYETHYLENE SHEETING'. EXCAVATION OF BYPASS CHANNEL SHALL BE PAID UNDER STRUCTURAL BID ITEM "EXCAVATION FOR STRUCTURES CULVERTS B-13-802". BACKFILL OF BYPASS CHANNEL SHALL BE PAID UNDER STRUCTURAL BID ITEM "REMOVING OLD STRUCTURE".

BACKFILL NEXT TO NEW CULVERT WINGWALLS SHALL BE STRUCTURAL BACKFILL AND PAID UNDER STRUCTURAL BID ITEM "BACKFILL STRUCTURE".

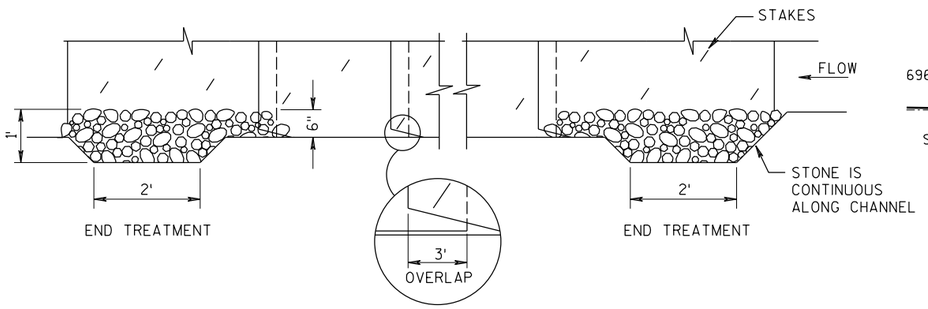


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CONSTRUCTION DETAIL - BOX CULVERT TEMP. BYPASS CHANNEL	SHEET 44	E

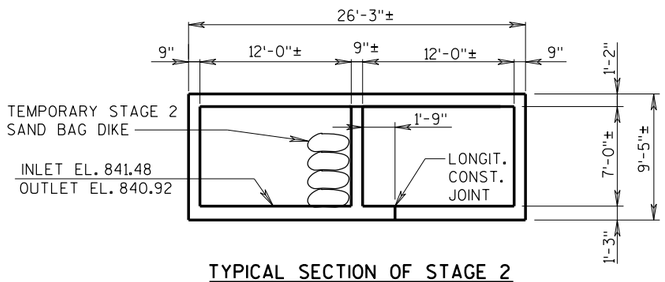


TYPICAL SECTION OF STAGE I
TEMPORARY BYPASS CHANNEL

THE CONTRACTOR MAY ALTER THE CHANNEL LOCATION
AND CONFIGURATION WITH THE ENGINEERS APPROVAL
(LOOKING NORTH)

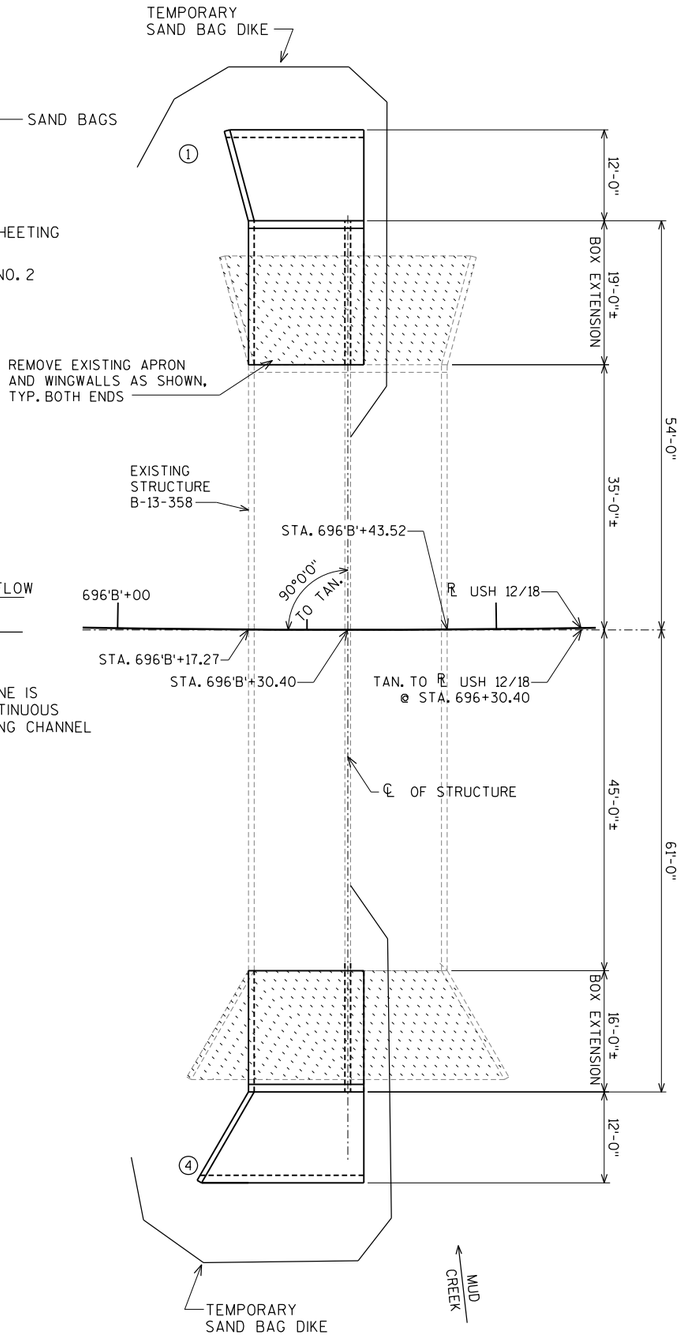


OVERLAP DETAIL
SECTION A

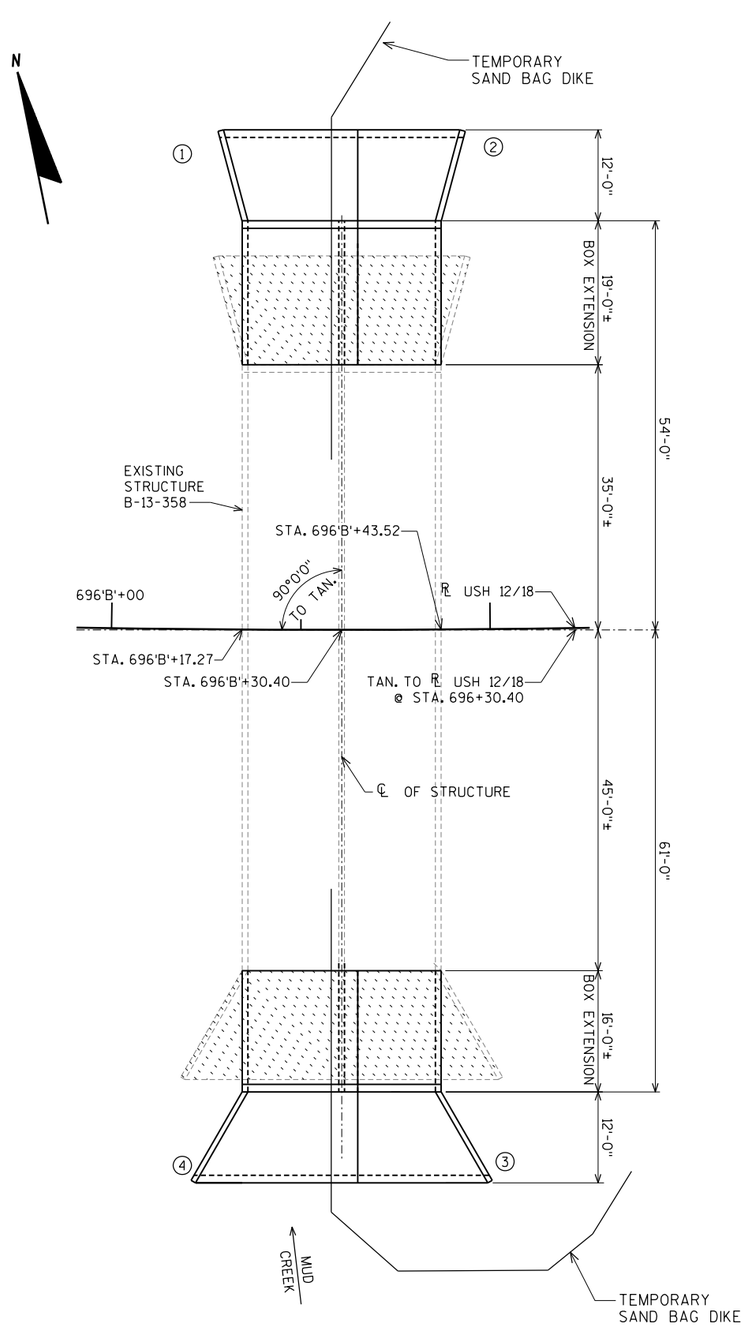


TYPICAL SECTION OF STAGE 2
TEMPORARY BYPASS CHANNEL

THE CONTRACTOR MAY ALTER THE CHANNEL LOCATION
AND CONFIGURATION WITH THE ENGINEERS APPROVAL
(LOOKING NORTH)



PLAN OF STAGE I
TEMPORARY BYPASS CHANNEL



PLAN OF STAGE 2
TEMPORARY BYPASS CHANNEL

PROJECT NO: 3070-00-73	HWY: USH 12/18	COUNTY: DANE	B-13-358 TEMPORARY BYPASS CHANNEL STAGING	SHEET 3 45	E

2

0 10' 20'
SCALE 1"= 20'

N

TEMPORARY R/W EASEMENT

TRIBUTARY TO MUD CREEK

℄ STH 73

C-13-105 (BOX EXTENSION)

PROVIDE TEMPORARY SAND BAG DIKE AT INLET DURING CONSTRUCTION. PAID UNDER ROADWAY BID ITEM "TEMPORARY SAND BAG DIKE".

TEMPORARY BYPASS CHANNEL

PROVIDE TEMPORARY SAND BAG DIKE AT OUTLET DURING CONSTRUCTION. PAID UNDER ROADWAY BID ITEM "TEMPORARY SAND BAG DIKE".

TEMPORARY R/W EASEMENT

PROPOSED R/W

EXISTING R/W

PROPOSED PAVEMENT EDGE

PROPOSED PAVEMENT EDGE

PROPOSED R/W

EXISTING R/W

845'

845'

850'

591

592

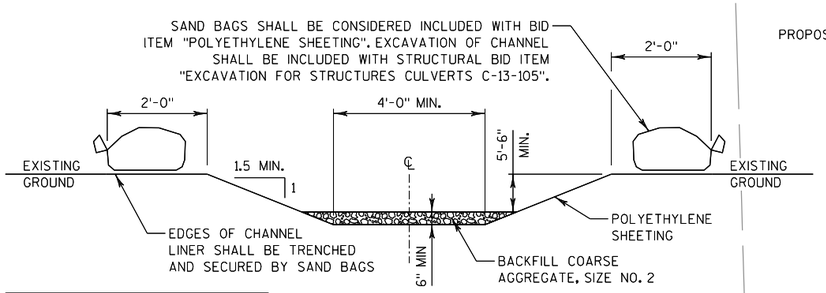
NOTE:
TEMPORARY CHANNEL MUST BE CAPABLE OF CARRYING THE 2-YEAR FLOOD ELEVATION STREAM FLOW, WITH A FREEBOARD OF 1-FOOT DURING THE CONSTRUCTION PERIOD AND MUST MAINTAIN A SUITABLE DEPTH AND VELOCITY TO ALLOW THE PASSAGE OF MIGRATING FISH AND AQUATIC SPECIES. FISH THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL IMMEDIATELY.

WHERE RIPRAP CONFLICTS WITH TEMPORARY BYPASS CHANNELS, PLACE RIPRAP AFTER FLOW HAS BEEN DIVERTED TO NEW CULVERT AND TEMPORARY BYPASS CHANNEL HAS BEEN BACKFILLED.

WORK FOR TEMPORARY BYPASS CHANNEL WILL BE PAID UNDER ROADWAY BID ITEMS "BACKFILL COARSE AGGREGATE NO. 2" AND "POLYETHYLENE SHEETING'. EXCAVATION OF BYPASS CHANNEL SHALL BE PAID UNDER STRUCTURAL BID ITEM "EXCAVATION FOR STRUCTURES CULVERTS C-13-105". BACKFILL OF BYPASS CHANNEL SHALL BE PAID UNDER STRUCTURAL BID ITEM "REMOVING OLD STRUCTURE".

BACKFILL NEXT TO NEW CULVERT WINGWALLS SHALL BE STRUCTURAL BACKFILL AND PAID UNDER STRUCTURAL BID ITEM "BACKFILL STRUCTURE".

SAND BAGS SHALL BE CONSIDERED INCLUDED WITH BID ITEM "POLYETHYLENE SHEETING". EXCAVATION OF CHANNEL SHALL BE INCLUDED WITH STRUCTURAL BID ITEM "EXCAVATION FOR STRUCTURES CULVERTS C-13-105".



HIGH WATER$_2$ EL. = 846.05

TYPICAL SECTION OF TEMPORARY BYPASS CHANNEL

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CONSTRUCTION DETAIL - BOX CULVERT TEMP. BYPASS CHANNEL	SHEET 46	E

2

ITS GENERAL NOTES

THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS, AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONOITIONS TO PROVIDE A COMPLETE AND ACCEPTED PROJECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONOITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

NO TEST BORINGS WERE MADE WHERE CONDUIT, PULL BOXES, POLES, FOUNDATIONS, OR OTHER EOUIPMENT IS TO BE INSTALLED.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

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

AREAS WITHIN RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR ITS CONSTRUCTION ARE TO BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, SEED, AND MULCH. RESTORATION FOR AREAS OISTURBED FOR OTHER CONSTRUCTION OPERATIONS, BUT ALSO CONTAINING ITS CONSTRUCTION, WILL BE DONE ACCORDING TO REOUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS. NO PAYMENT WILL BE MADE FOR RESTORING AREAS DISTURBED FOR ITS CONSTRUCTION OPERATIONS.

DUE TO RAMP, LANE, AND SHOULDER CLOSURE RESTRICTIONS AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REOUIRED TO BE PERFORMED AT NIGHT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTS IN THE AREA.

NOTIFY THE REGIONAL TRAFFIC UNIT (PRIMARY 608-246-5367, SECONDARY 608-246-5362), A MINIMUM OF TWO (2) WEEKS PRIOR TO STAKING THE ITS ITEMS.

HAND DIG TRENCHES NEAR EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE. VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE.

ITS LEGEND

DESCRIPTION	SYMBOL
JUNCTION BOX	▬
CCTV CAMERA	◀■
BASE MOUNTED CABINET	▣
POLE MOUNTED CABINET	⊠
POLE	●
PULL BOX 24X36	◑
PULL BOX 24X42	◍
COMMUNICATIONS VAULT	V
COMMUNICATIONS MANHOLE	❶
MICROWAVE DETECTOR	◆
ITS CONDUIT	- - -
DYNAMIC MESSAGE SIGN, OVERHEAD	▙▁▟
DYNAMIC MESSAGE SIGN, ROADSIDE	▙▙▙
DYNAMIC MESSAGE SIGN, BUTTERFLY	▁▌▁
DYNAMIC MESSAGE SIGN, CANTILEVER	▁▁▙
PORTABLE CHANGEABLE MESSAGE SIGN	PCMS
ROAD WEATHER INFORMATION SYSTEM	▮
METER BREAKER PEDESTAL	⊠
METER SOCKET	⊗
BREAKER DISCONNECT BOX	⊞
RAMP CLOSURE GATE	▭▶
BLUETOOTH SENSOR	B
WIRELESS MESH NODE	W
AUTOMATIC TRAFFIC RECORDER	ATR
WOODEN POWER POLE	⊡-
WOOD POST	⊡
TRANSFORMER	⚠
DETECTION ZONE	⬭

ITS STANDARD ABBREVIATIONS

ATR	-----	AUTOMATIC TRAFFIC RECORDER
CB	-----	CONTROLLER CABINET
CCTV	-----	CLOSED CIRCUIT TELEVISION
CP	-----	CAMERA POLE
CV	-----	COMMUNICATIONS VAULT
DMS	-----	DYNAMIC MESSAGE SIGN
DP	-----	DETECTOR POLE
DS	-----	DRAINAGE STRUCTURE (ON ITS PLANS ONLY)
EX	-----	EXISTING
FO	-----	FIBER OPTIC
JB	-----	JUNCTION BOX
MB	-----	METER BREAKER
MD	-----	MICROWAVE DETECTOR
MH	-----	MANHOLE
MM	-----	MULTIMODE
PB	-----	PULL BOX
PCMS	-----	PORTABLE CHANGEABLE MESSAGE SIGN
PF	-----	POLE FOUNDATION
RWIS	-----	ROAD WEATHER INFORMATION SYSTEM
S	-----	OVERHEAD SIGNAL SUPPORT
SB	-----	SIGNAL BASE
SDS	-----	SYSTEM DETECTOR STATION
SM	-----	SINGLE MODE
SWEF	-----	SAFETY AND WEIGHT ENFORCEMENT FACILITY
WDS	-----	WIRELESS DETECTION SENSOR
WIM	-----	WEIGH IN MOTION
WMN	-----	WIRELESS MESH NODE

ITS CONTACTS

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MS. DEANNA SCHUETT
618-877-1642
1521 PROGRESS LANE
STOUGHTON, WI 53589

ORIGINAL PLANS PREPARED BY

SRF Consulting Group, Inc. | ENGINEERS PLANNERS DESIGNERS

ITS SHEETS 1–11

WISCONSIN
JACOB HW FOLKERINGA
E-43224
MINNEAPOLIS, MN
PROFESSIONAL ENGINEER

10/15/2014 (Date)

(Signature)

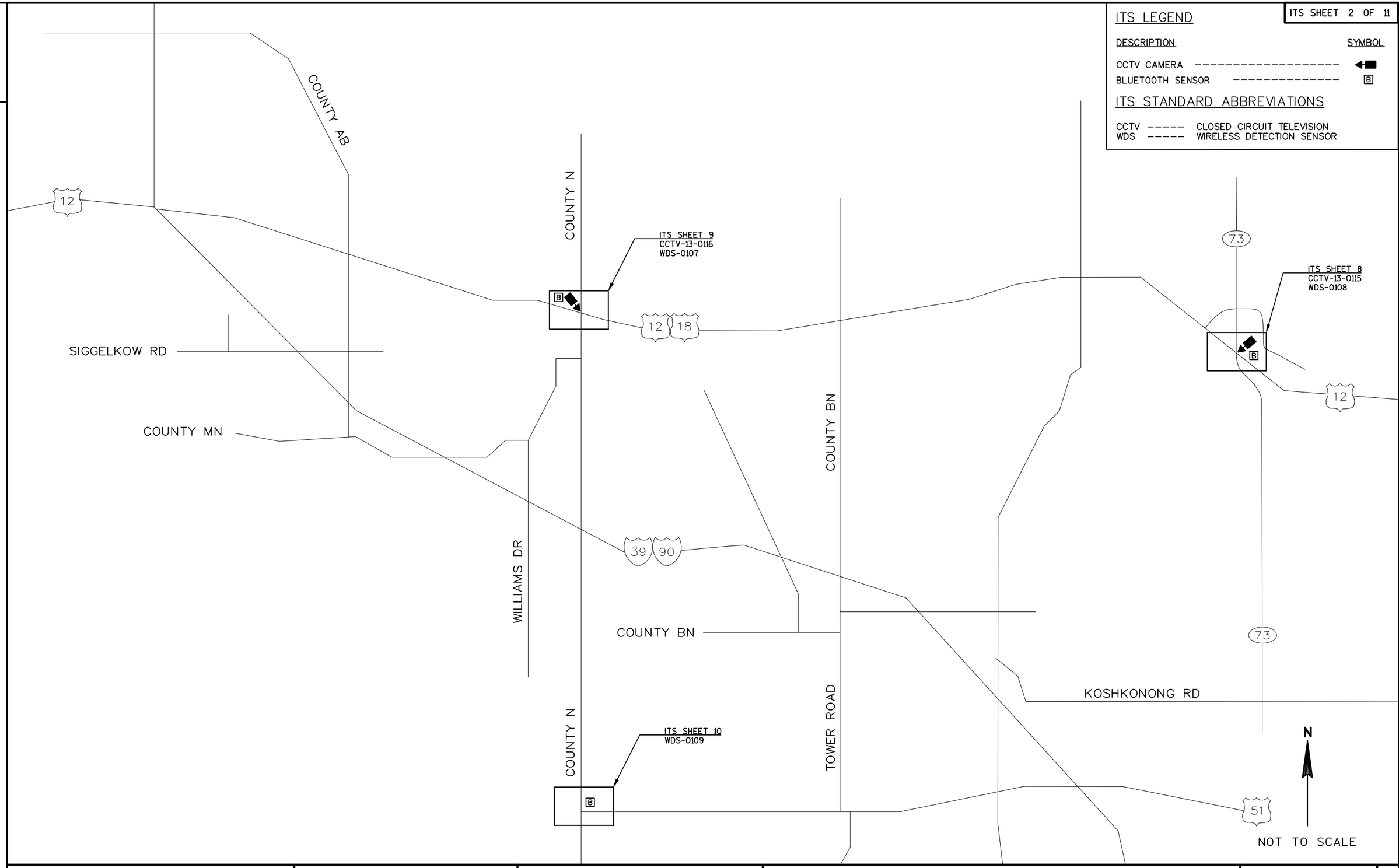
PROJECT NO:3070-00-73	HWY: STH 73	COUNTY: DANE	ITS GENERAL NOTES	SHEET 47	E

ITS LEGEND

DESCRIPTION	SYMBOL
CCTV CAMERA	◄■
BLUETOOTH SENSOR	B

ITS STANDARD ABBREVIATIONS

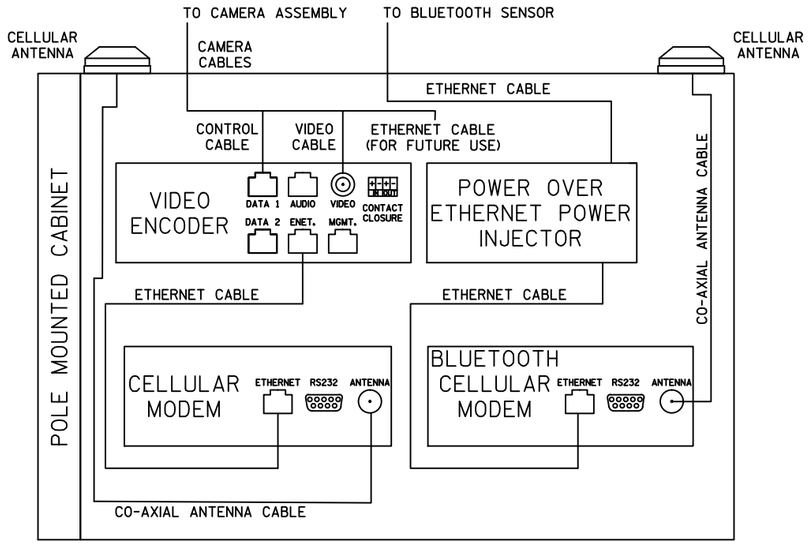
CCTV ----- CLOSED CIRCUIT TELEVISION
WDS ----- WIRELESS DETECTION SENSOR



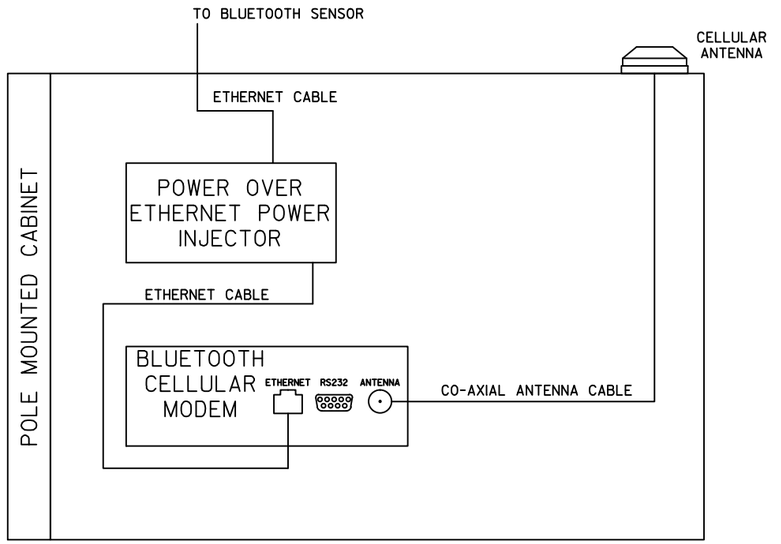
PROJECT NO:3070-00-73	HWY:STH 73	COUNTY:DANE	ITS PROJECT OVERVIEW	SHEET	E

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WISDOT/CADDS SHEET 42

NOT TO SCALE



CCTV-13-0115 & WDS-0108 - STH 73 @ USH 12/18
CCTV-13-0116 & & WDS-0107 - CTH N @ USH 12/18



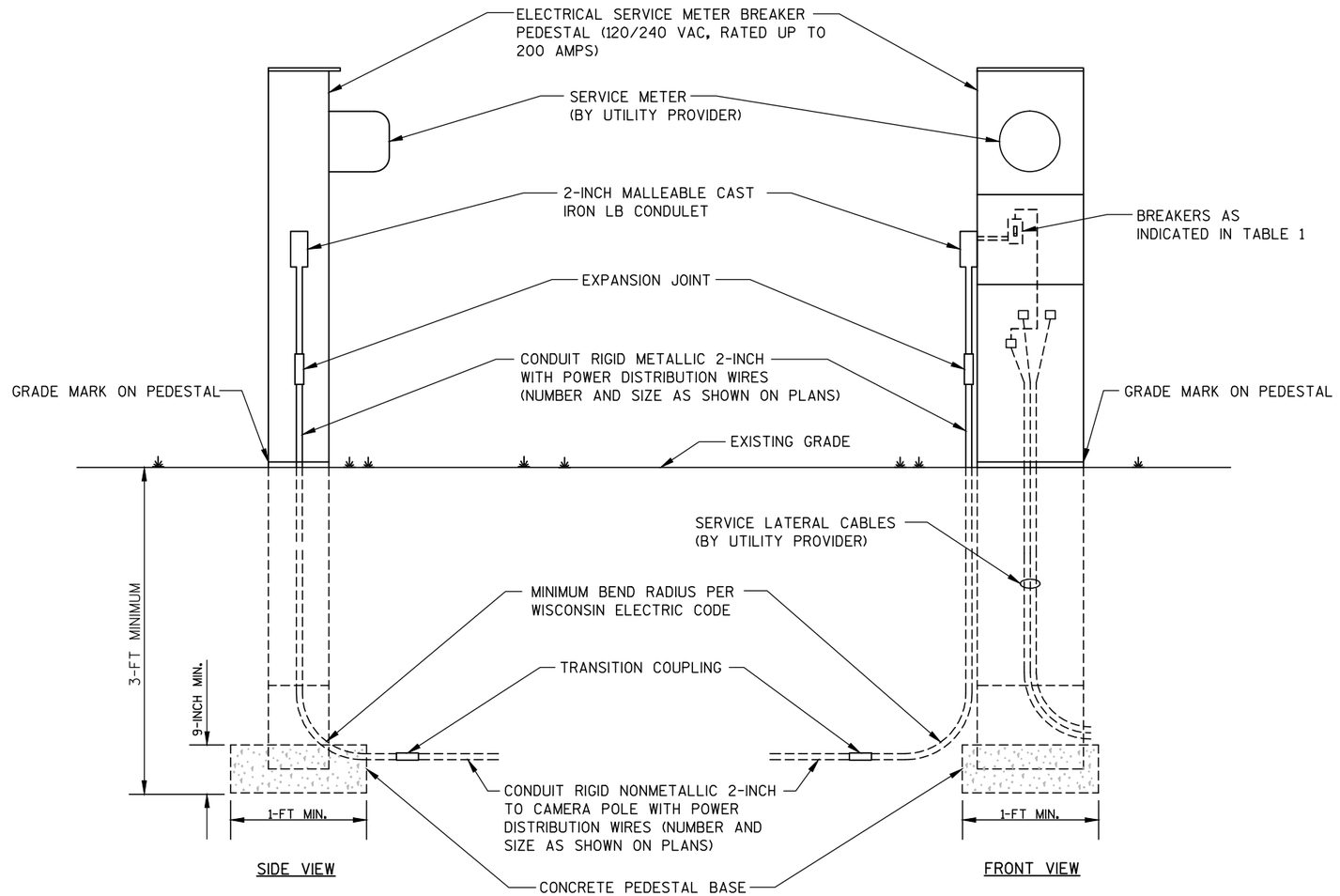
WDS-0109 - CTH N @ USH 51

NOTES

ALL CABLES INCIDENTAL TO DEVICE INSTALLATION.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	ITS COMMUNICATION SCHEMATICS	SHEET 49	E

NOT TO SCALE



ELECTRICAL SERVICE METER BREAKER PEDESTAL

CCTV-13-0115 & WDS-0108 - STH 73 @ USH 12/18

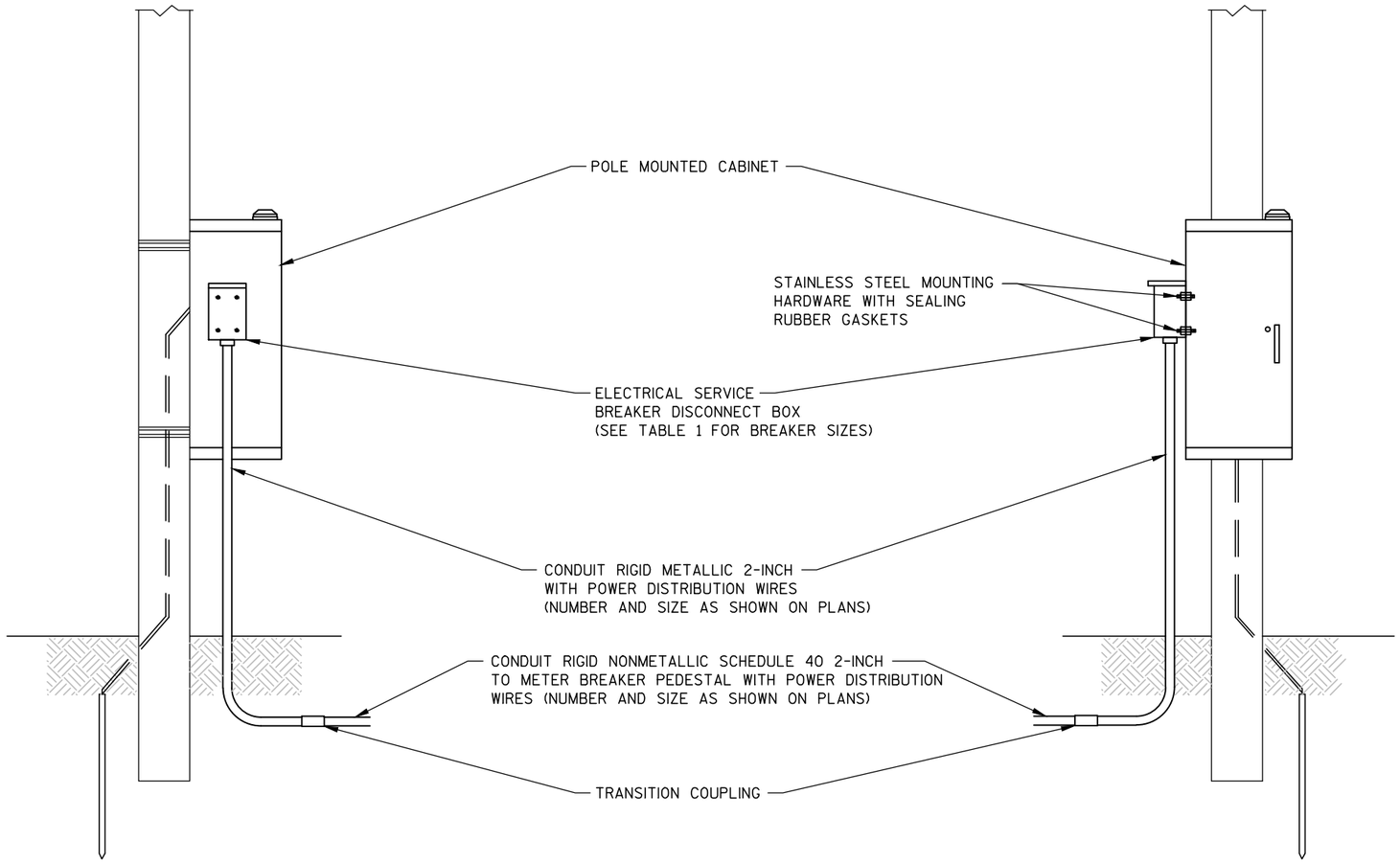
CCTV-13-0116 & WDS-0107 - CTH N @ USH 12/18

TABLE 1

BREAKER SIZES BY LOCATION

LOCATION	ID	MAIN BREAKER SIZE	SUB-BREAKER #1 SIZE	SUB-BREAKER #2 SIZE	SUB-BREAKER #3 SIZE
STH 73 @ USH 12/18	CCTV-13-0115 WDS-0108	100 AMPS (2P)	30 AMPS (CCTV)	30 AMPS (SPARE)	
CTH N @ USH 12/18	CCTV-13-0116 WDS-0107	100 AMPS (2P)	30 AMPS (CCTV)	30 AMPS (SPARE)	

NOT TO SCALE



SIDE VIEW

FRONT VIEW

ELECTRICAL SERVICE BREAKER DISCONNECT BOX

(POLE MOUNTED CABINET)

CCTV-13-0115 & WDS-0108 - STH 73 AT USH 12/18

CCTV-13-0116 & WDS-0107 - CTH N AT USH 12/18

NOTES

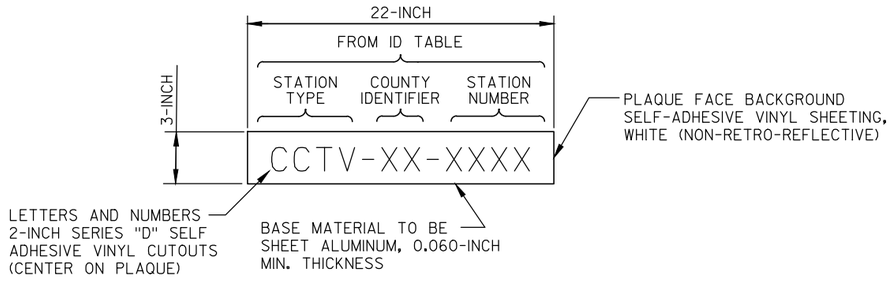
MOUNT EQUIPMENT UTILIZING STAINLESS STEEL BANDS OR METHOD APPROVED BY THE ENGINEER.

TABLE 1

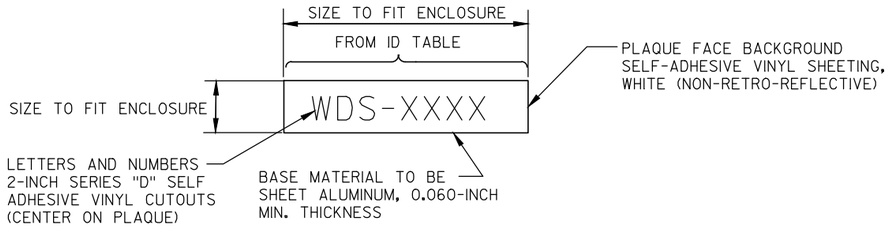
BREAKER SIZES BY LOCATION

LOCATION	ID	MAIN BREAKER SIZE	SUB-BREAKER #1 SIZE	SUB-BREAKER #2 SIZE	SUB-BREAKER #3 SIZE
STH 73 @ USH 12/18	CCTV-13-0115 WDS-0108	30 AMPS (CCTV)	30 AMPS (SPARE)		
CTH N @ USH 12/18	CCTV-13-0116 WDS-0107	30 AMPS (CCTV)	30 AMPS (SPARE)		

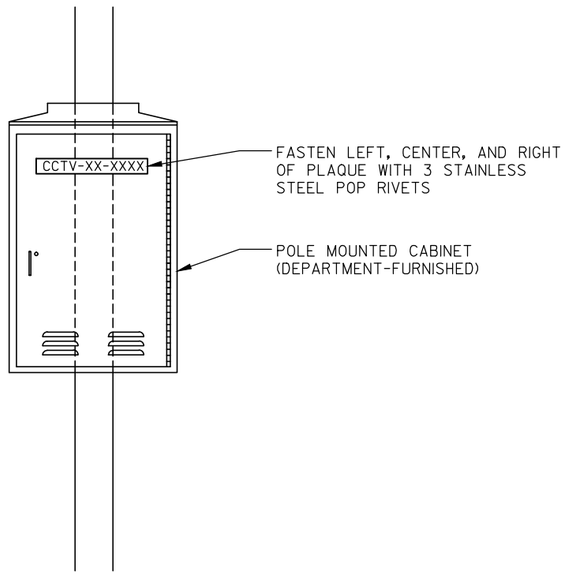
NOT TO SCALE



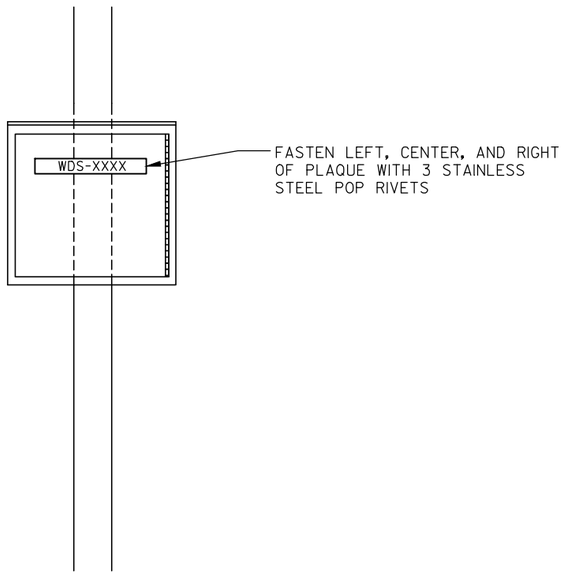
CONTROL CABINET IDENTIFICATION PLAQUE



BLUETOOTH IDENTIFICATION PLAQUE



CONTROL CABINET PLAQUES SEQUENCE IDENTIFICATION



BLUETOOTH SENSOR ENCLOSURE IDENTIFICATION PLAQUES SEQUENCE IDENTIFICATION

PLAQUES SEQUENCE IDENTIFICATION TABLE		
SITE LOCATION	ID PLAQUE	NO. OF PLAQUES
STH 73 @ USH 12/18	CCTV-13-0115	2
	WDS-0108	2
CTH N @ USH 12/18	CCTV-13-0116	2
	WDS-0107	2
CTH N @ USH 51	WDS-0109	2

STATION TYPE LEGEND

ATR - AUTOMATIC TRAFFIC RECORDER
CCTV - CLOSED CIRCUIT TELEVISION
DMS - DYNAMIC MESSAGE SIGN
G - RAMP CLOSURE GATE
SDS - SYSTEM DETECTOR STATION
WDS - WIRELESS DETECTION SENSOR

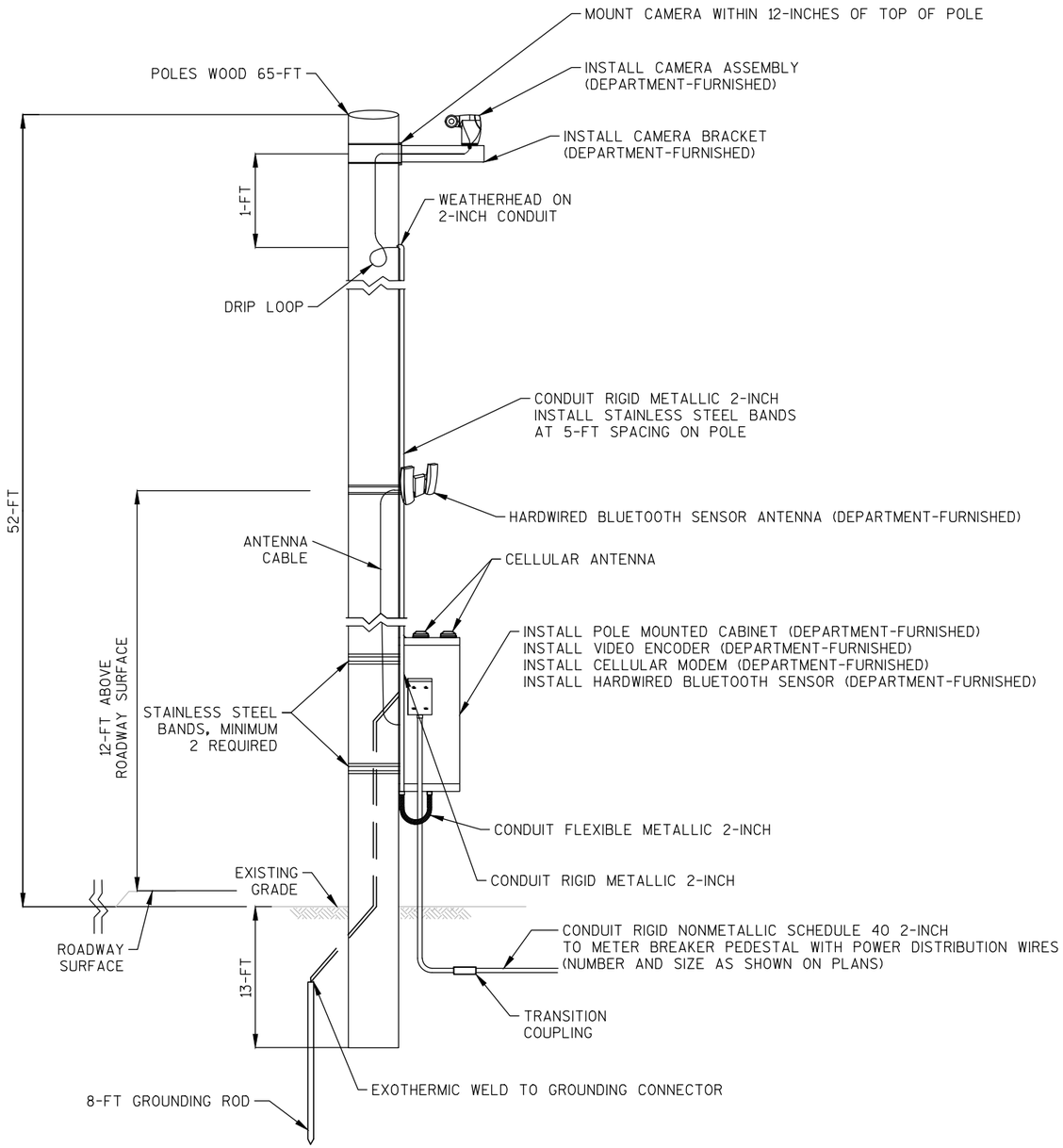
NOTES

TWO PLAQUES PER DEVICE REQUIRED ON CONTROL CABINET.

FASTEN ONE PLAQUE ON FRONT DOOR, UPPER HALF.

FASTEN ONE PLAQUE ON SIDE FACING LOCAL STREET. IF NO LOCAL STREET NEARBY, OR IF SUCH LOCATION COINCIDES WITH LOCATION OF PLAQUE IN PREVIOUS NOTE, FASTEN PLAQUE ON REAR OF CABINET, UPPER HALF.

NOT TO SCALE



BLUETOOTH, CAMERA & POLE MOUNTED CABINET MOUNTING

CCTV-13-0115 & WDS-0108 - STH 73 @ USH 12/18

CCTV-13-0116 & WDS-0107 - CTH N @ USH 12/18

NOTES

SECURE LOOSE CABLES TO POLE AT 5-FT INTERVALS.

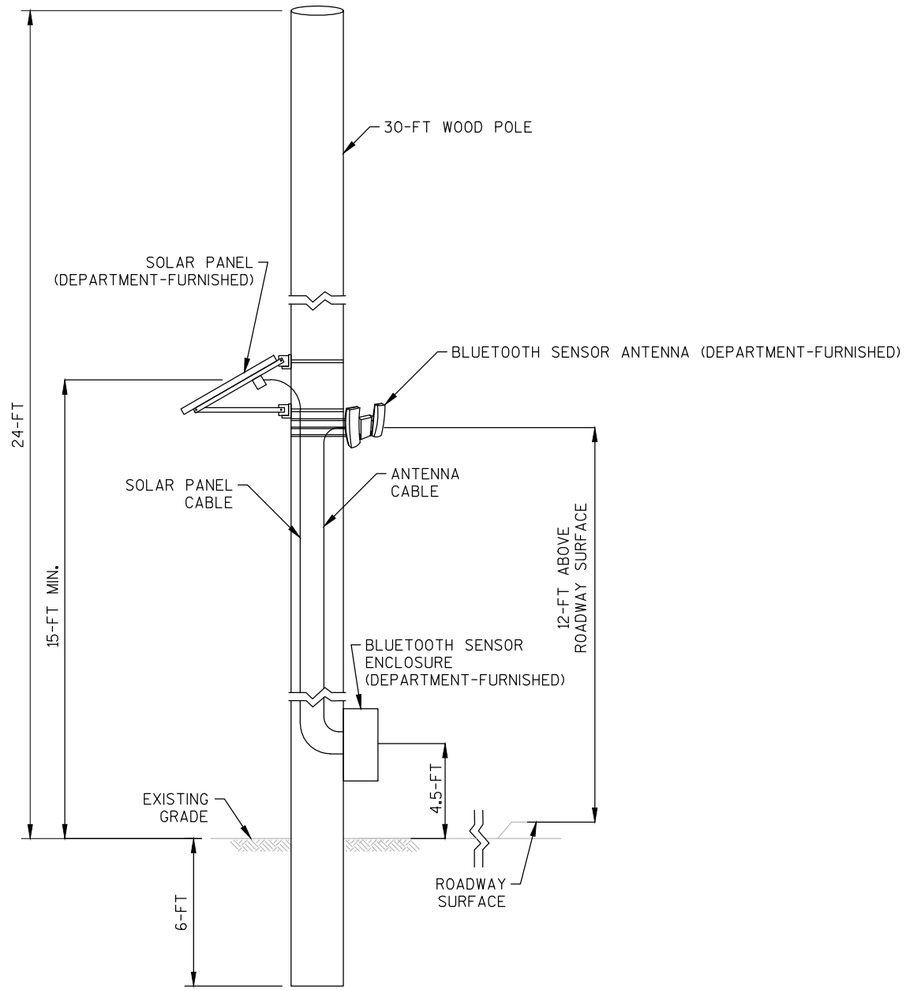
INSTALL DRIP LOOPS ON LOOSE CABLES TO PREVENT WATER FROM FLOWING ON CABLE AND ENTERING POLES/ENCLOSURES.

MOUNT EQUIPMENT UTILIZING STAINLESS STEEL BANDS OR METHOD APPROVED BY THE ENGINEER.

CONDUIT FLEXIBLE METALLIC SHALL BE LIQUID TIGHT.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	ITS CONSTRUCTION DETAILS	SHEET 53	E

NOT TO SCALE



SOLAR-POWERED BLUETOOTH SENSOR MOUNTING

WDS-0109 - CTH N @ USH 51

NOTES

SECURE LOOSE CABLES TO POLE AT 5-FT INTERVALS.

INSTALL DRIP LOOPS ON LOOSE CABLES TO PREVENT WATER FROM FLOWING ON CABLE AND ENTERING POLES/ENCLOSURES.

MOUNT EQUIPMENT UTILIZING STAINLESS STEEL BANDS OR METHOD APPROVED BY THE ENGINEER.

ORIENT SOLAR PANEL AS CLOSE TO SOUTH AS POSSIBLE.

ITS LEGEND

DESCRIPTION	SYMBOL
CCTV CAMERA	
POLE MOUNTED CABINET	
POLE	
ITS CONDUIT	
METER BREAKER PEDESTAL	
BREAKER DISCONNECT BOX	
BLUETOOTH SENSOR	
TRANSFORMER	

ITS STANDARD ABBREVIATIONS

CCTV	-----	CLOSED CIRCUIT TELEVISION
CP	-----	CAMERA POLE
MB	-----	METER BREAKER
WDS	-----	WIRELESS DETECTION SENSOR

LOCATION MAP

TRANSFORMER (BY WE ENERGY)

USH 12/18 WB

USH 12/18 EB

660'B'

662'B'

664'B'

666'B'

668'B'

670'B'

630

628

626

624

622

UNDERGROUND SERVICE (BY WE ENERGY)

SHAUL LANE

CCTV-13-0115 & WDS-0108
POLES WOOD 65-FT
INSTALL CAMERA ASSEMBLY (DEPARTMENT-FURNISHED)
INSTALL HARDWIRED BLUETOOTH SENSOR (DEPARTMENT-FURNISHED)
INSTALL POLE MOUNTED CABINET (DEPARTMENT-FURNISHED)
INSTALL VIDEO ENCODER (DEPARTMENT-FURNISHED)
INSTALL CELLULAR MODEM (DEPARTMENT-FURNISHED)
(4) PLAQUES SEQUENCE IDENTIFICATION
ELECTRICAL SERVICE BREAKER DISCONNECT BOX (CCTV-13-0115)

CP-1

MB-1

CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
(3) ELECTRICAL WIRE LIGHTING 6 AWG

ELECTRICAL SERVICE METER BREAKER PEDESTAL (CCTV-13-0115)

CAMERA ARM ALIGNMENT

STH 73 SB

STH 73 NB

PROPOSED R/W

SLOPE INTERCEPT

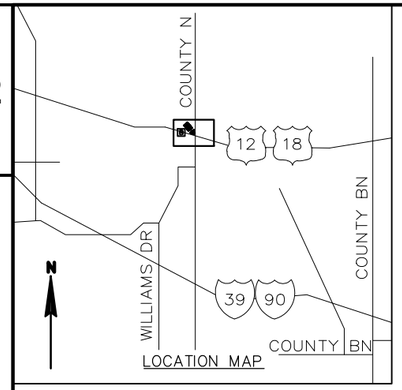
EXISTING R/W

SLOPE INTERCEPT

NOTIFY THE REGIONAL TRAFFIC UNIT (PRIMARY 608-246-5367, SECONDARY 608-246-5362), A MINIMUM OF TWO (2) WEEKS PRIOR TO STAKING THE ITS ITEMS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	ITS PLANS	SHEET	E

FILE NAME : H:\PROJMDSN\8137\CAD_BIM\PLAN\3070-00-73 STH 73 FADNESS RD TO LONDON RD\SR_ITS PLANS_3070-00-73.DWG PLOT DATE : 10/16/2014 1:22 PM PLOT BY : CORTNEY FALERO PLOT NAME : PLOT SCALE : 1:100_XREF
WISDOT/CADDS SHEET 42

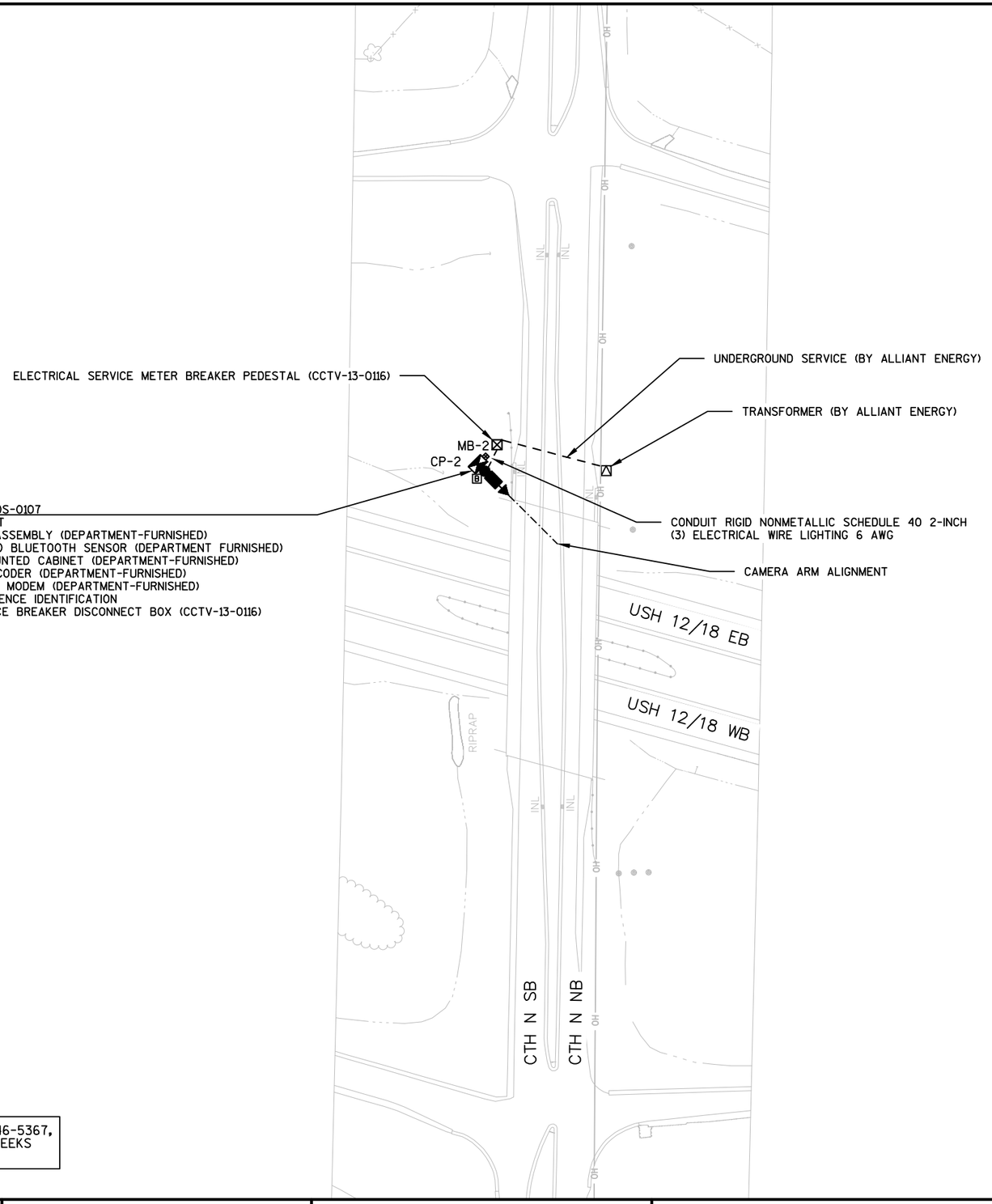


ITS LEGEND

DESCRIPTION	SYMBOL
CCTV CAMERA	
POLE MOUNTED CABINET	
POLE	
ITS CONDUIT	
METER BREAKER PEDESTAL	
BREAKER DISCONNECT BOX	
BLUETOOTH SENSOR	
TRANSFORMER	

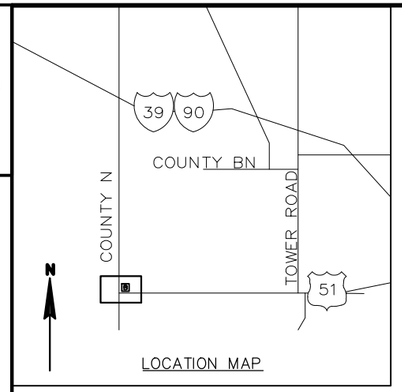
ITS STANDARD ABBREVIATIONS

CCTV	-----	CLOSED CIRCUIT TELEVISION
CP	-----	CAMERA POLE
MB	-----	METER BREAKER
WDS	-----	WIRELESS DETECTION SENSOR





NOTIFY THE REGIONAL TRAFFIC UNIT (PRIMARY 608-246-5367, SECONDARY 608-246-5362), A MINIMUM OF TWO (2) WEEKS PRIOR TO STAKING THE ITS ITEMS.

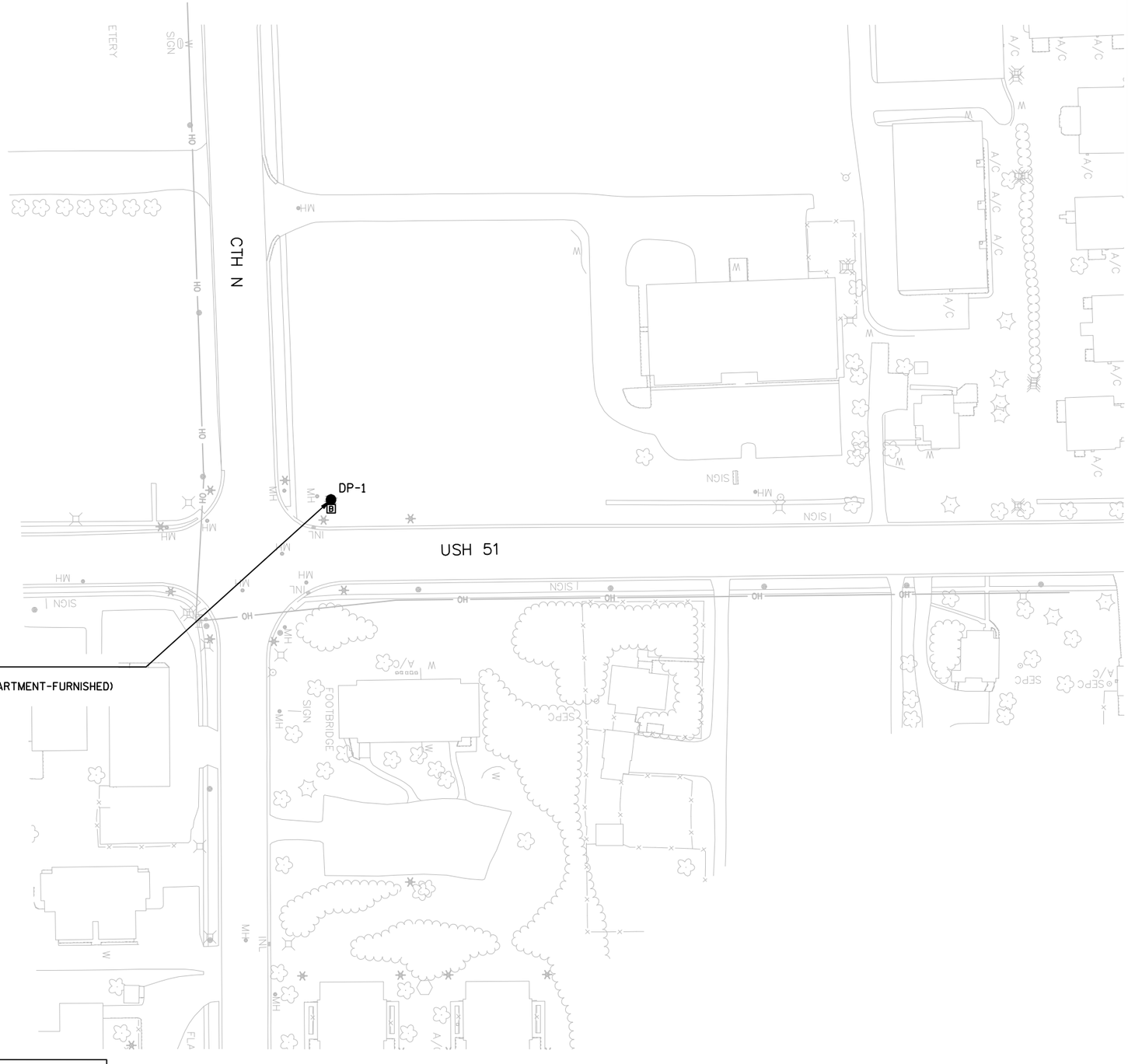


ITS LEGEND

DESCRIPTION	SYMBOL
POLE	●
BLUETOOTH SENSOR	B

ITS STANDARD ABBREVIATIONS

DP ----- DETECTOR POLE
WDS ----- WIRELESS DETECTION SENSOR



WDS-0109
POLES WOOD 30-FT
INSTALL SOLAR-POWERED BLUETOOTH SENSOR (DEPARTMENT-FURNISHED)
(2) PLAQUES SEQUENCE IDENTIFICATION

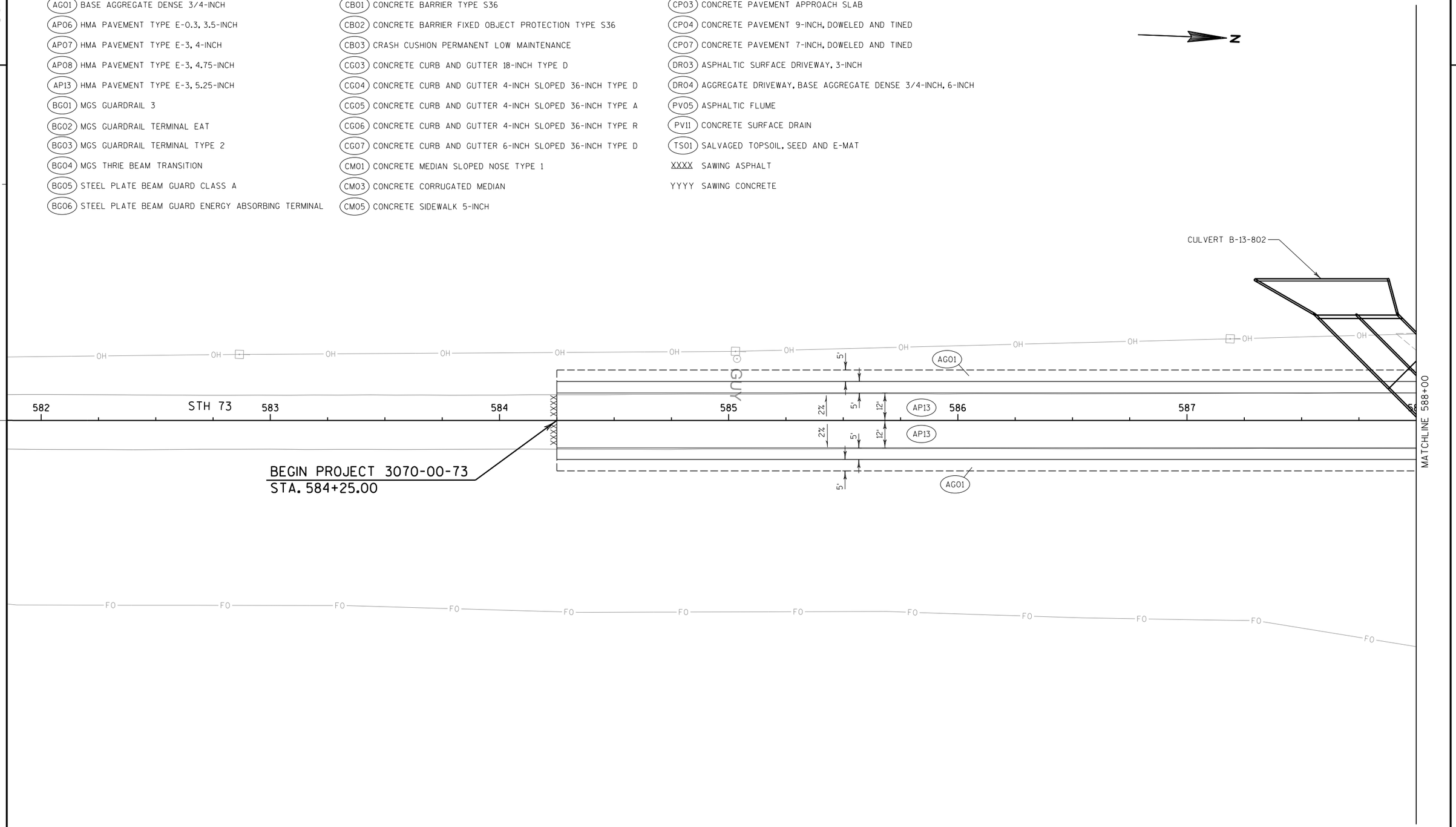
NOTIFY THE REGIONAL TRAFFIC UNIT (PRIMARY 608-246-5367, SECONDARY 608-246-5362), A MINIMUM OF TWO (2) WEEKS PRIOR TO STAKING THE ITS ITEMS.

N

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	ITS PLANS	SHEET 57	E

PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (AP07) HMA PAVEMENT TYPE E-3, 4-INCH
- (AP08) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
- (BG01) MGS GUARDRAIL 3
- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
- (BG06) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
- (CP03) CONCRETE PAVEMENT APPROACH SLAB
- (CP04) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- (DR03) ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

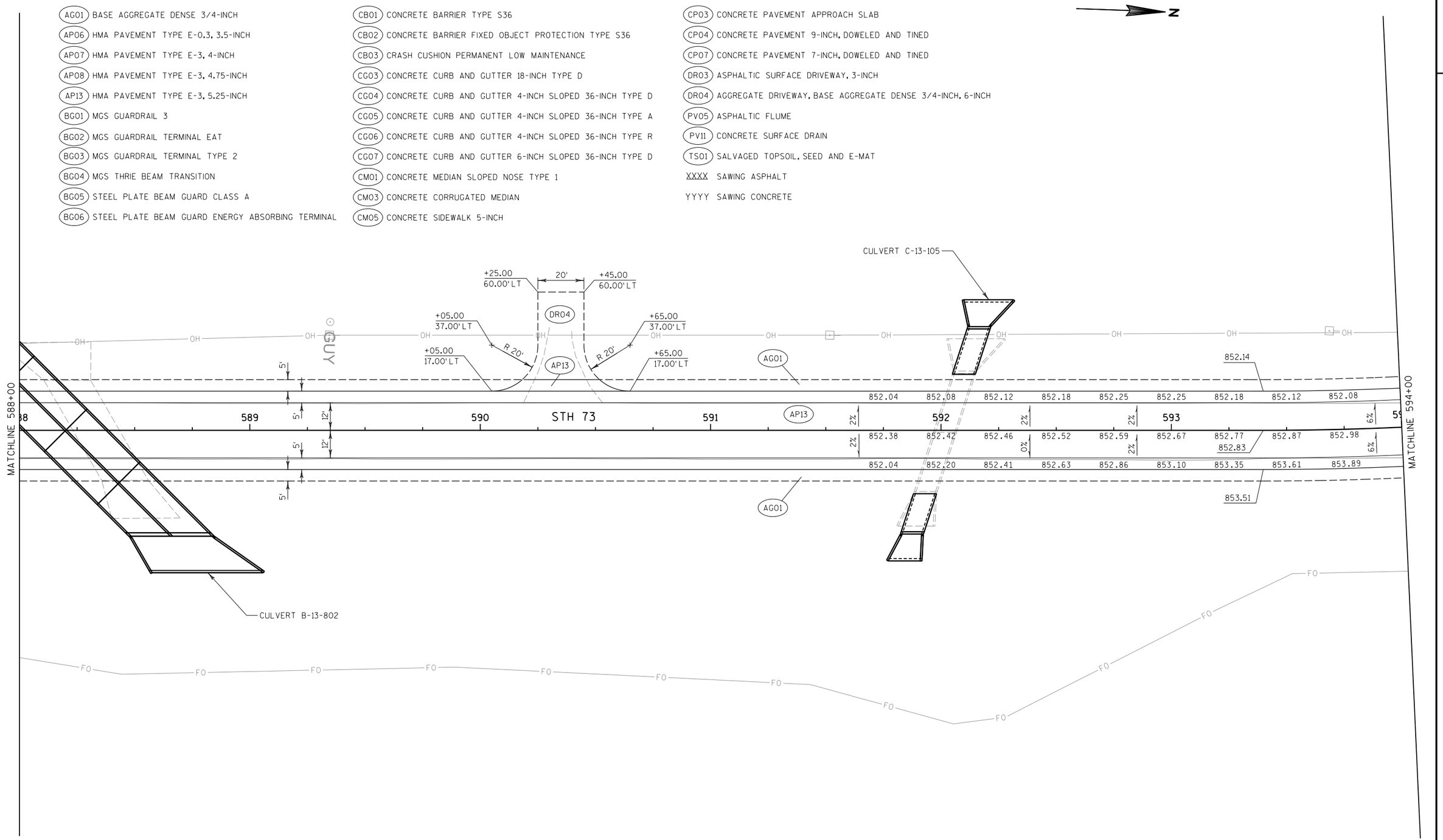


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - STH 73	SHEET 58	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\021201_pd.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- AP07 HMA PAVEMENT TYPE E-3, 4-INCH
- AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH
- AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH
- BG01 MGS GUARDRAIL 3
- BG02 MGS GUARDRAIL TERMINAL EAT
- BG03 MGS GUARDRAIL TERMINAL TYPE 2
- BG04 MGS THRIE BEAM TRANSITION
- BG05 STEEL PLATE BEAM GUARD CLASS A
- BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- CB01 CONCRETE BARRIER TYPE S36
- CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE
- CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D
- CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- CP03 CONCRETE PAVEMENT APPROACH SLAB
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

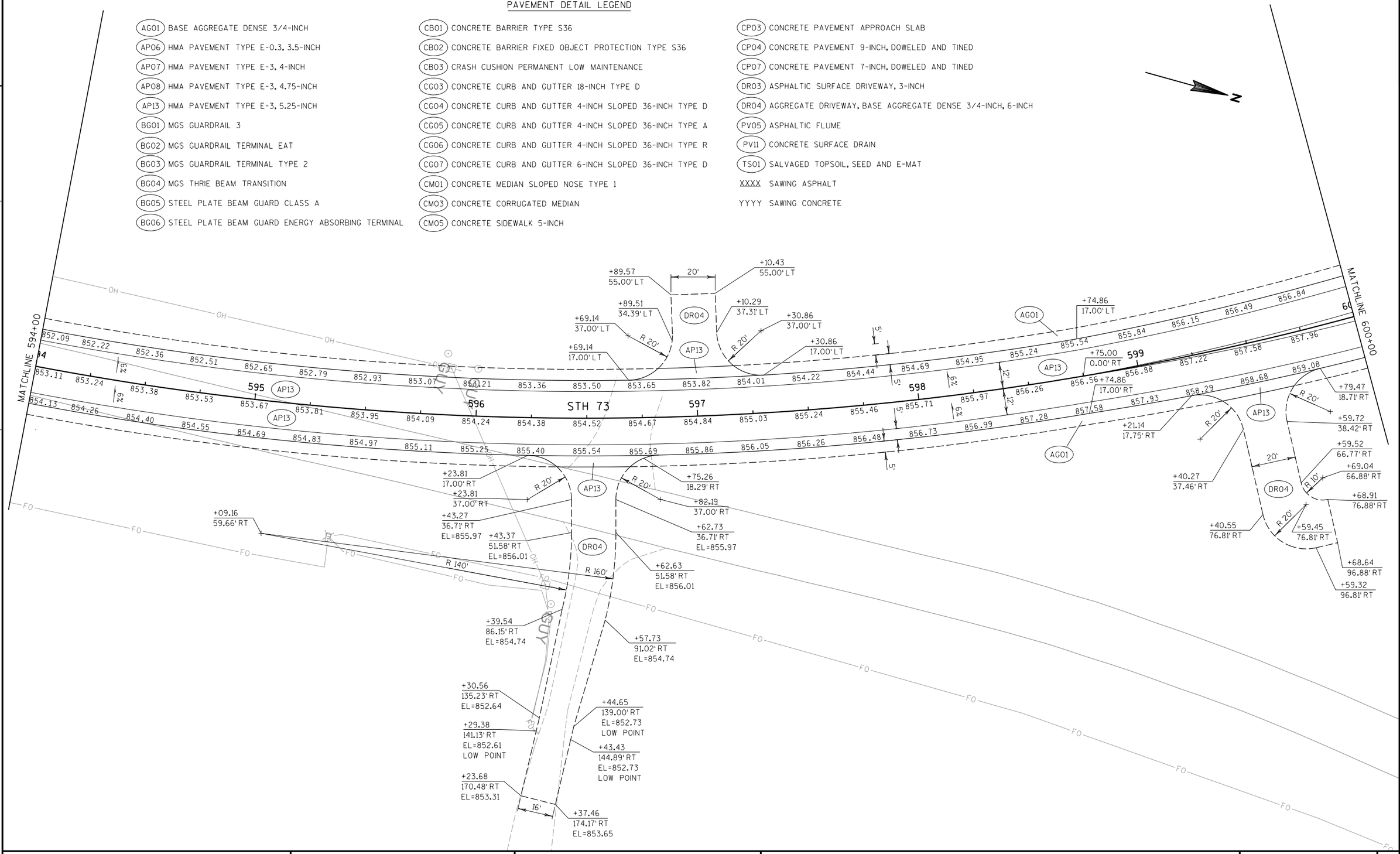


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - STH 73	SHEET 59	E

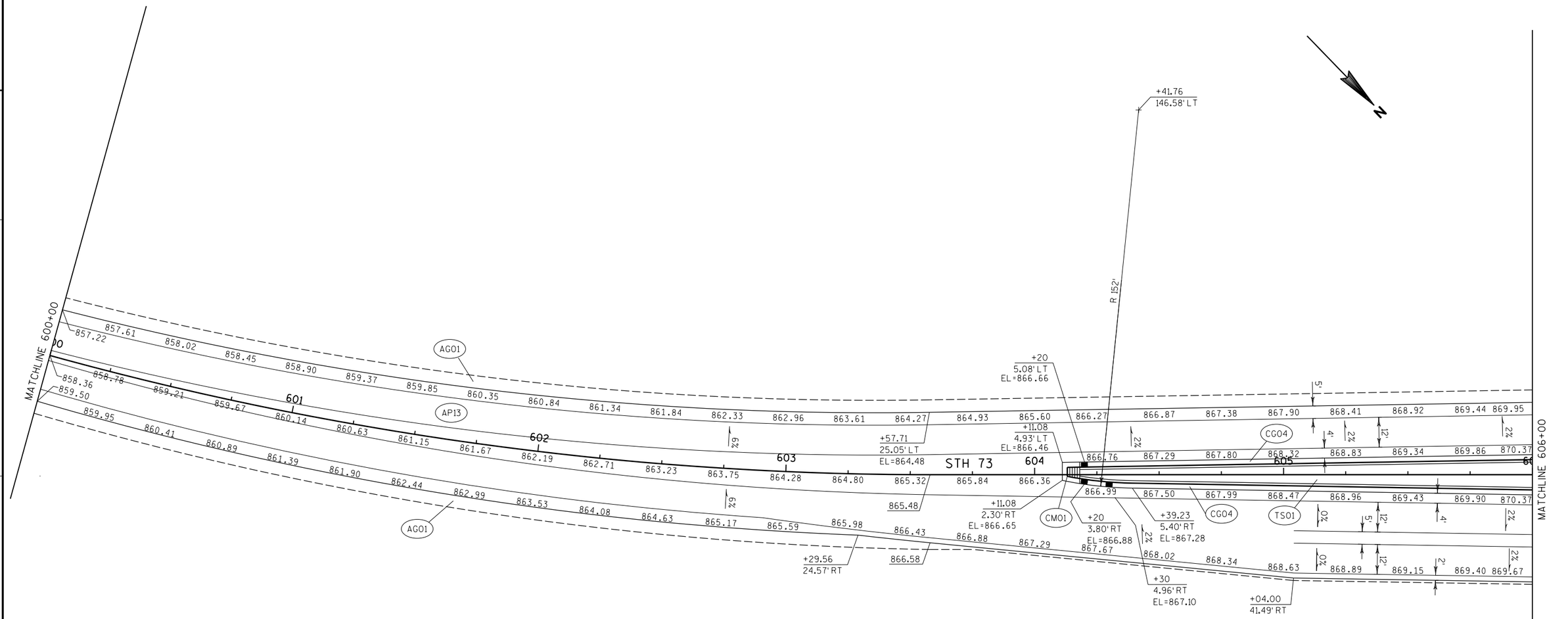
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PAVEMENT DETAIL LEGEND

AG01 BASE AGGREGATE DENSE 3/4-INCH	CB01 CONCRETE BARRIER TYPE S36	CP03 CONCRETE PAVEMENT APPROACH SLAB
AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH	CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36	CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
AP07 HMA PAVEMENT TYPE E-3, 4-INCH	CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE	CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH	CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D	DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH	CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BG01 MGS GUARDRAIL 3	CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	PV05 ASPHALTIC FLUME
BG02 MGS GUARDRAIL TERMINAL EAT	CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R	PV11 CONCRETE SURFACE DRAIN
BG03 MGS GUARDRAIL TERMINAL TYPE 2	CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	TS01 SALVAGED TOPSOIL, SEED AND E-MAT
BG04 MGS THRIE BEAM TRANSITION	CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1	XXXX SAWING ASPHALT
BG05 STEEL PLATE BEAM GUARD CLASS A	CM03 CONCRETE CORRUGATED MEDIAN	YYYY SAWING CONCRETE
BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	CM05 CONCRETE SIDEWALK 5-INCH	

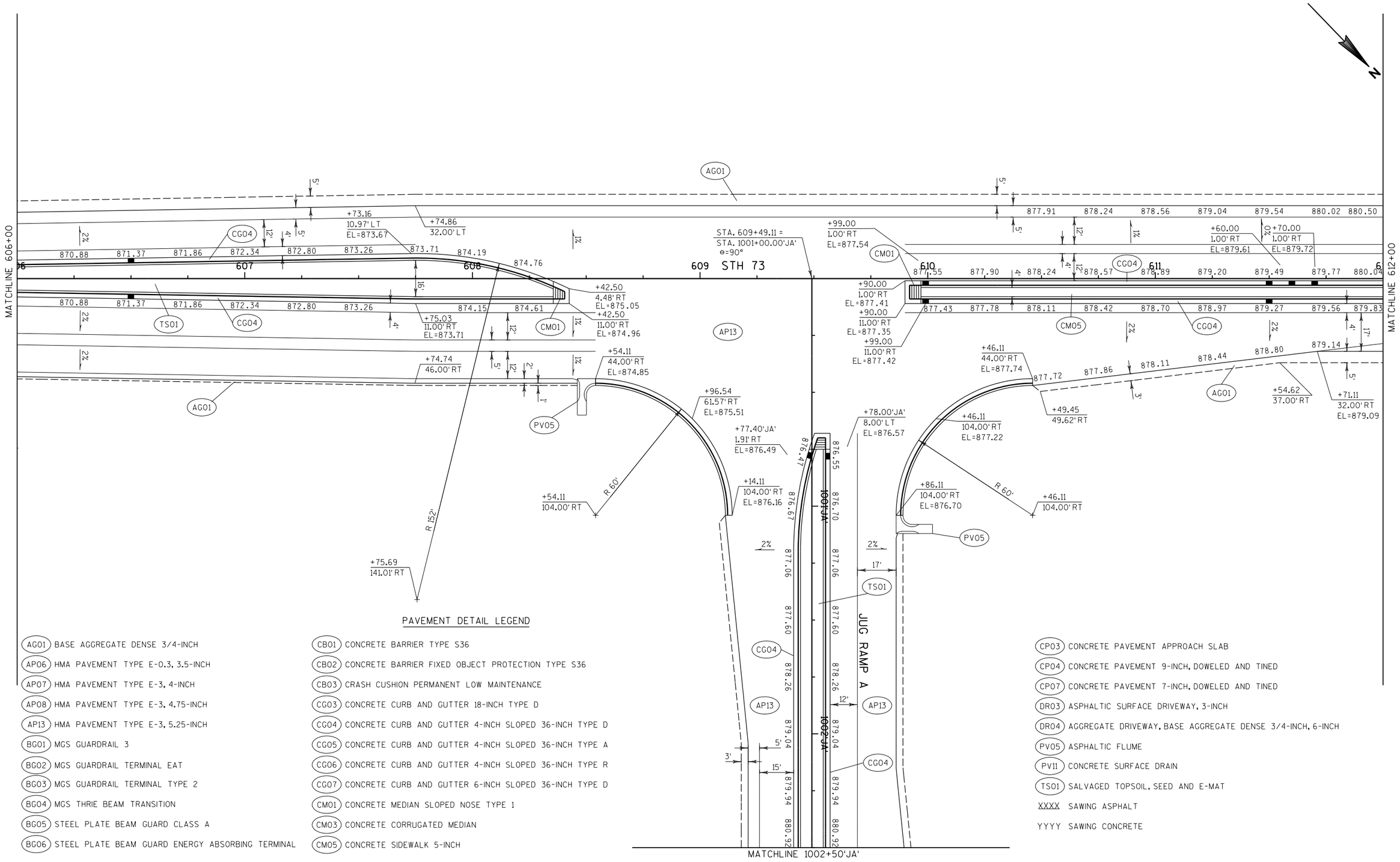


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - STH 73	SHEET 60	E



PAVEMENT DETAIL LEGEND

AG01 BASE AGGREGATE DENSE 3/4-INCH	CB01 CONCRETE BARRIER TYPE S36	CP03 CONCRETE PAVEMENT APPROACH SLAB
AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH	CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36	CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
AP07 HMA PAVEMENT TYPE E-3, 4-INCH	CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE	CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH	CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D	DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH	CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BG01 MGS GUARDRAIL 3	CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	PV05 ASPHALTIC FLUME
BG02 MGS GUARDRAIL TERMINAL EAT	CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R	PV11 CONCRETE SURFACE DRAIN
BG03 MGS GUARDRAIL TERMINAL TYPE 2	CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	TS01 SALVAGED TOPSOIL, SEED AND E-MAT
BG04 MGS THRIE BEAM TRANSITION	CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1	XXXX SAWING ASPHALT
BG05 STEEL PLATE BEAM GUARD CLASS A	CM03 CONCRETE CORRUGATED MEDIAN	YYYY SAWING CONCRETE
BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	CM05 CONCRETE SIDEWALK 5-INCH	



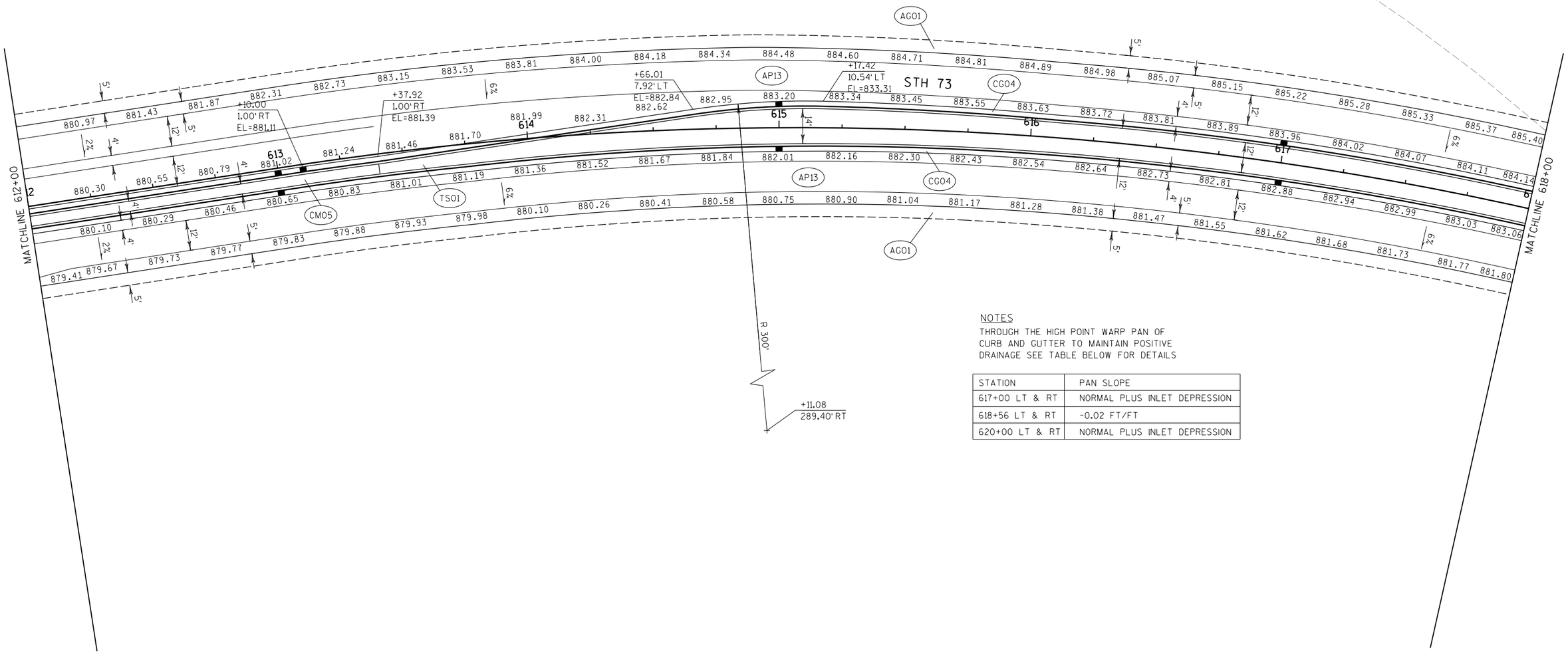
PAVEMENT DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
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- CP03 CONCRETE PAVEMENT APPROACH SLAB
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- CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - STH 73	SHEET 62	E

PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (APO6) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (APO7) HMA PAVEMENT TYPE E-3, 4-INCH
- (APO8) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
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- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
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- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
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- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
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- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



NOTES

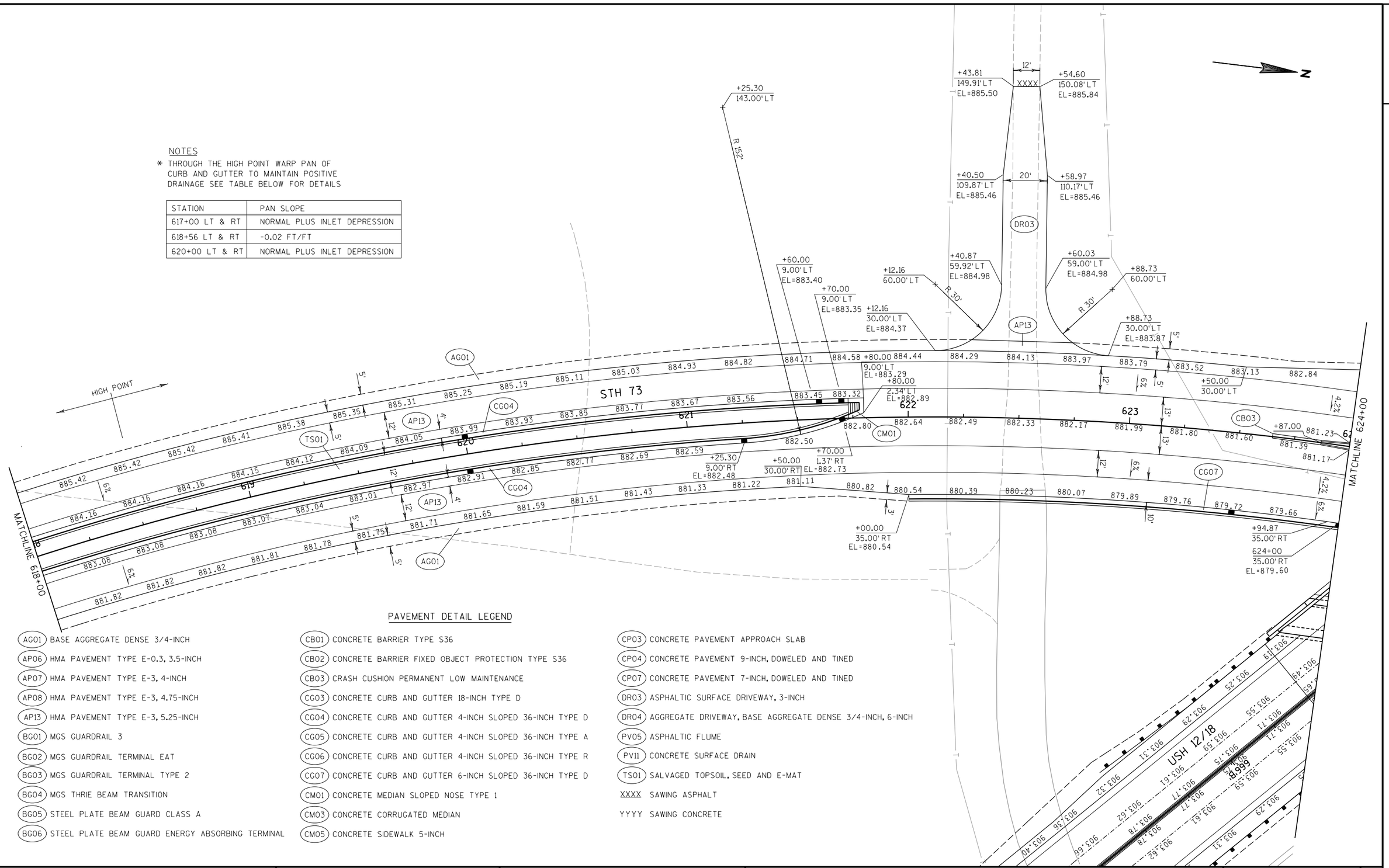
THROUGH THE HIGH POINT WARP PAN OF CURB AND GUTTER TO MAINTAIN POSITIVE DRAINAGE SEE TABLE BELOW FOR DETAILS

STATION	PAN SLOPE
617+00 LT & RT	NORMAL PLUS INLET DEPRESSION
618+56 LT & RT	-0.02 FT/FT
620+00 LT & RT	NORMAL PLUS INLET DEPRESSION

NOTES

* THROUGH THE HIGH POINT WARP PAN OF CURB AND GUTTER TO MAINTAIN POSITIVE DRAINAGE SEE TABLE BELOW FOR DETAILS

STATION	PAN SLOPE
617+00 LT & RT	NORMAL PLUS INLET DEPRESSION
618+56 LT & RT	-0.02 FT/FT
620+00 LT & RT	NORMAL PLUS INLET DEPRESSION



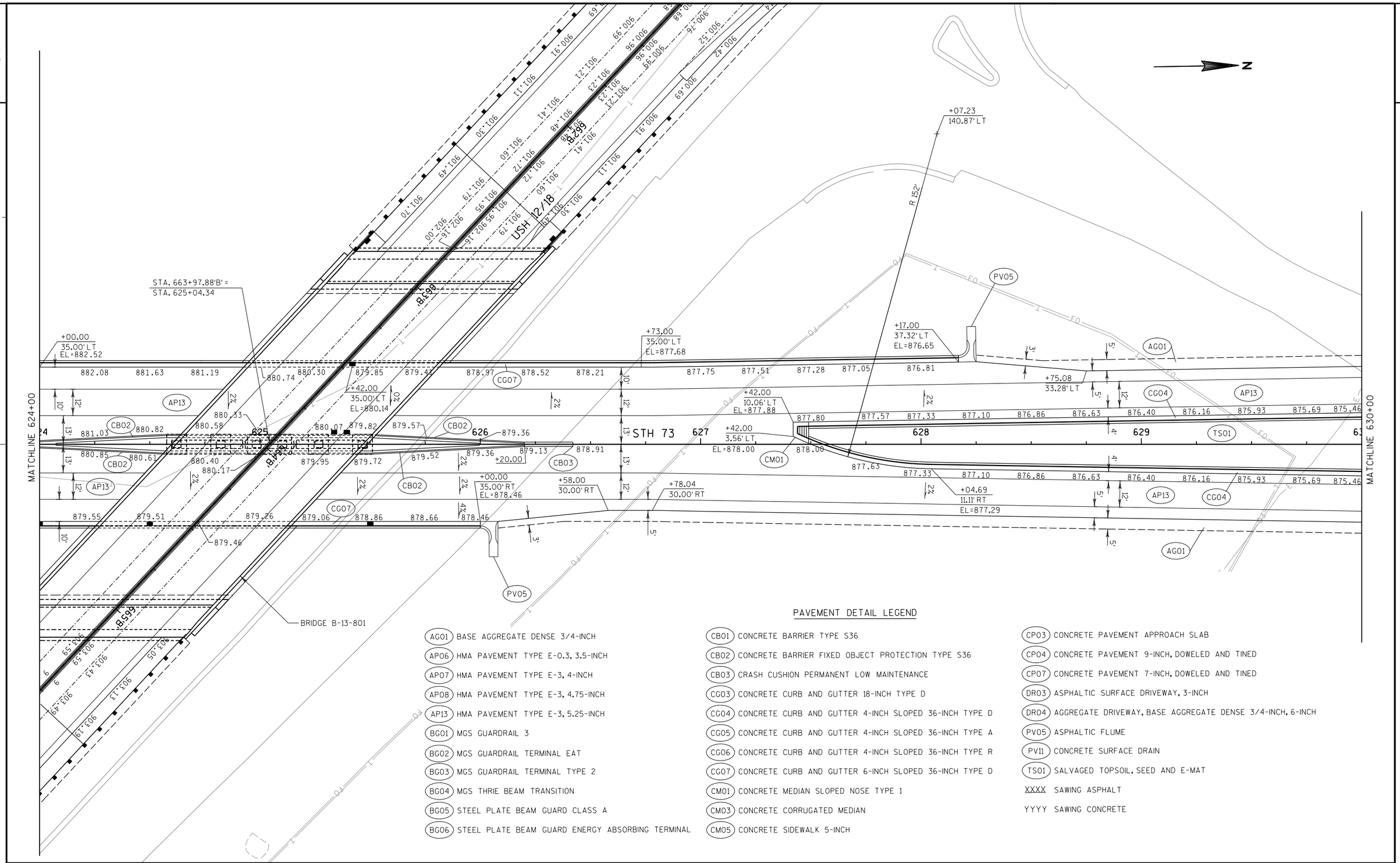
PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
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- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
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- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
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- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - STH 73	SHEET 64	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\021207_pd.dgn | PLOT DATE : 10/29/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:40

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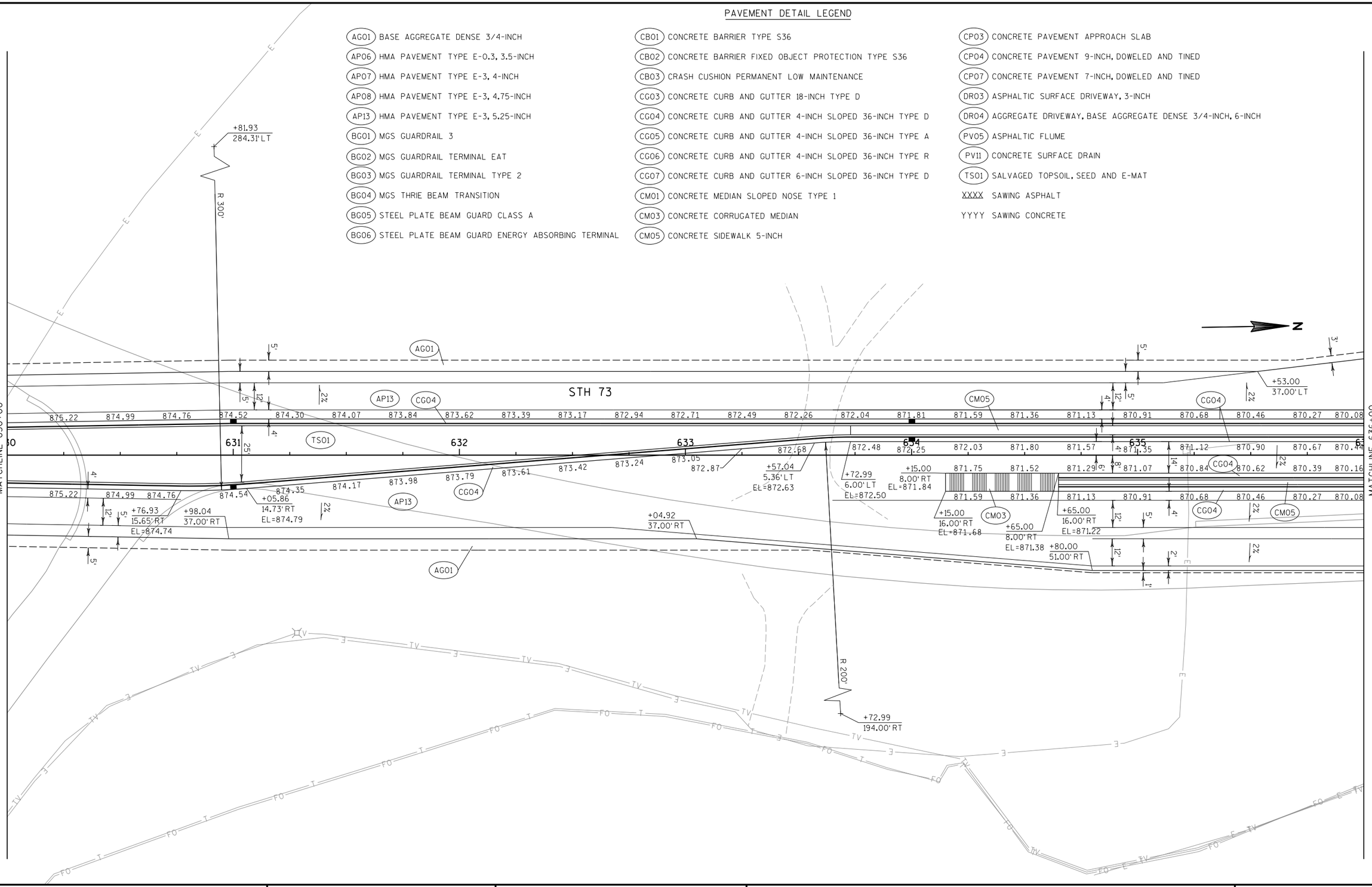
PAVEMENT DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- APO6 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- APO7 HMA PAVEMENT TYPE E-3, 4-INCH
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- CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- CP03 CONCRETE PAVEMENT APPROACH SLAB
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
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- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - STH 73	SHEET 65	E

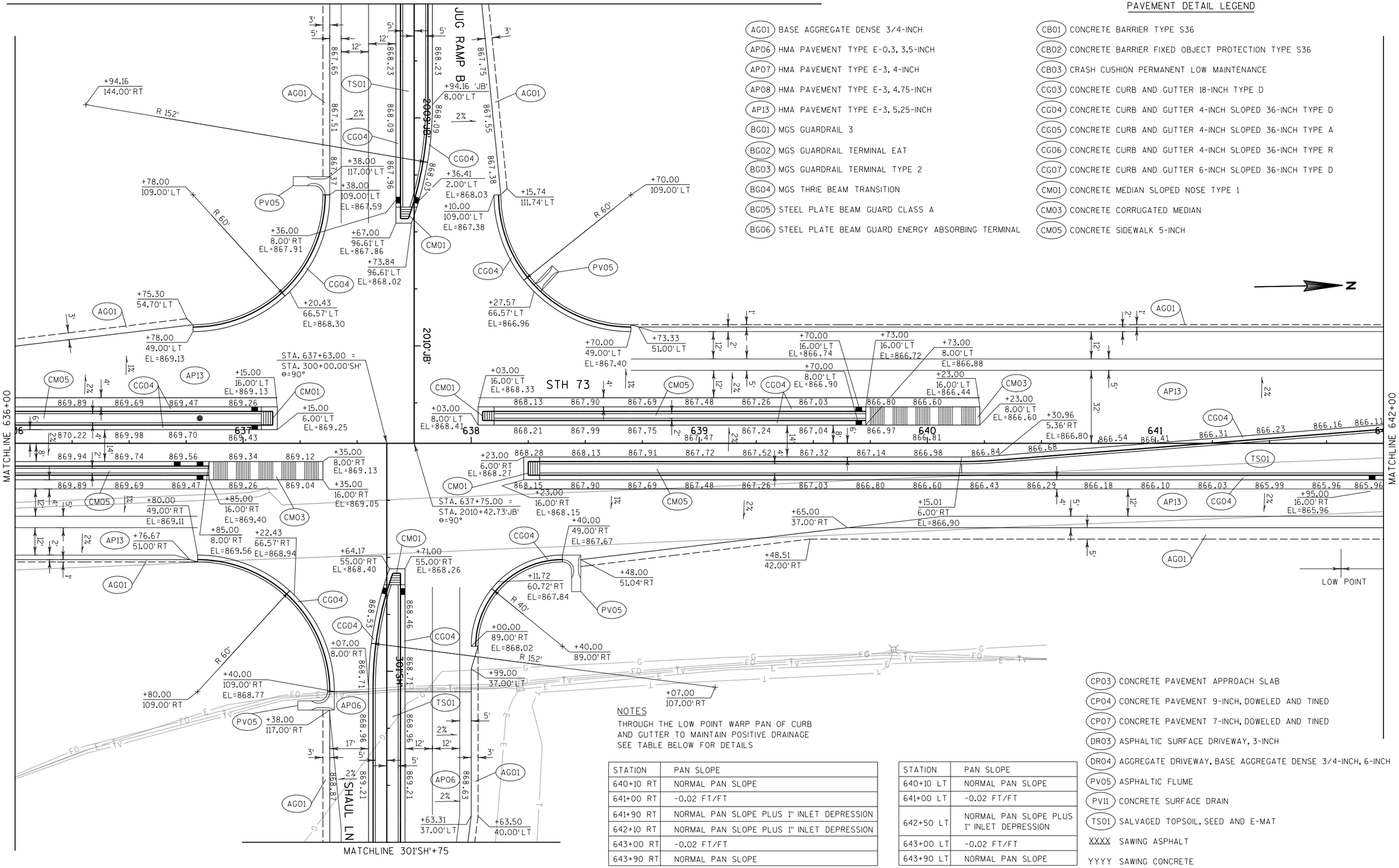
PAVEMENT DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- AP07 HMA PAVEMENT TYPE E-3, 4-INCH
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- BG02 MGS GUARDRAIL TERMINAL EAT
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- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - STH 73	SHEET 66	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\021209_pd.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40



PAVEMENT DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- AP07 HMA PAVEMENT TYPE E-3, 4-INCH
- AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH
- AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH
- BG01 MGS GUARDRAIL 3
- BG02 MGS GUARDRAIL TERMINAL EAT
- BG03 MGS GUARDRAIL TERMINAL TYPE 2
- BG04 MGS THRIE BEAM TRANSITION
- BG05 STEEL PLATE BEAM GUARD CLASS A
- BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- CB01 CONCRETE BARRIER TYPE S36
- CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE
- CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D
- CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM05 CONCRETE SIDEWALK 5-INCH

NOTES

THROUGH THE LOW POINT WARP PAN OF CURB AND GUTTER TO MAINTAIN POSITIVE DRAINAGE SEE TABLE BELOW FOR DETAILS

STATION	PAN SLOPE
640+10 RT	NORMAL PAN SLOPE
641+00 RT	-0.02 FT/FT
641+90 RT	NORMAL PAN SLOPE PLUS 1" INLET DEPRESSION
642+10 RT	NORMAL PAN SLOPE PLUS 1" INLET DEPRESSION
643+00 RT	-0.02 FT/FT
643+90 RT	NORMAL PAN SLOPE

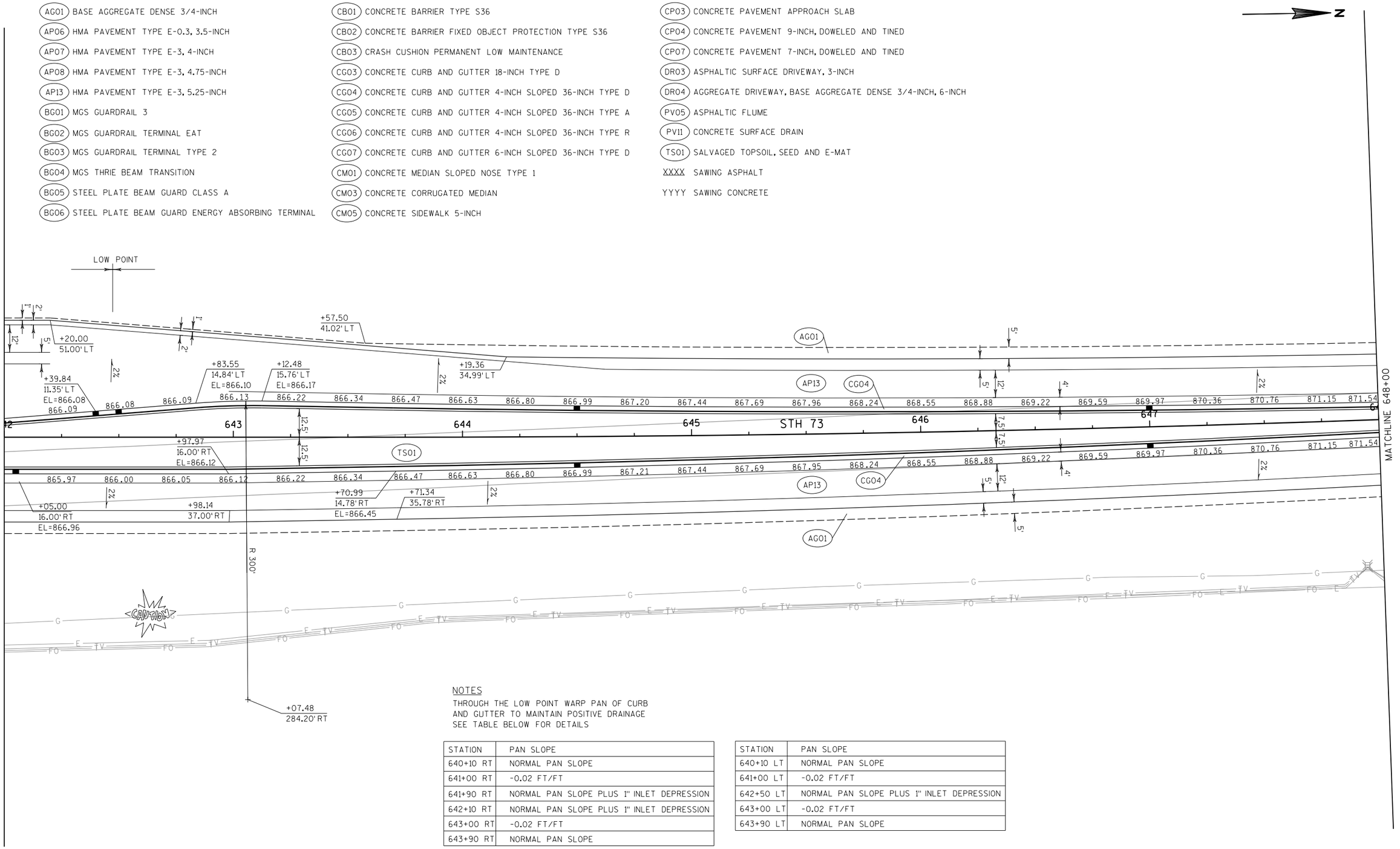
STATION	PAN SLOPE
640+10 LT	NORMAL PAN SLOPE
641+00 LT	-0.02 FT/FT
642+50 LT	NORMAL PAN SLOPE PLUS 1" INLET DEPRESSION
643+00 LT	-0.02 FT/FT
643+90 LT	NORMAL PAN SLOPE

- CP03 CONCRETE PAVEMENT APPROACH SLAB
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - STH 73	SHEET 67	E

PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (AP07) HMA PAVEMENT TYPE E-3, 4-INCH
- (AP08) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
- (BG01) MGS GUARDRAIL 3
- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
- (BG06) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
- (CP03) CONCRETE PAVEMENT APPROACH SLAB
- (CP04) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- (DR03) ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



NOTES

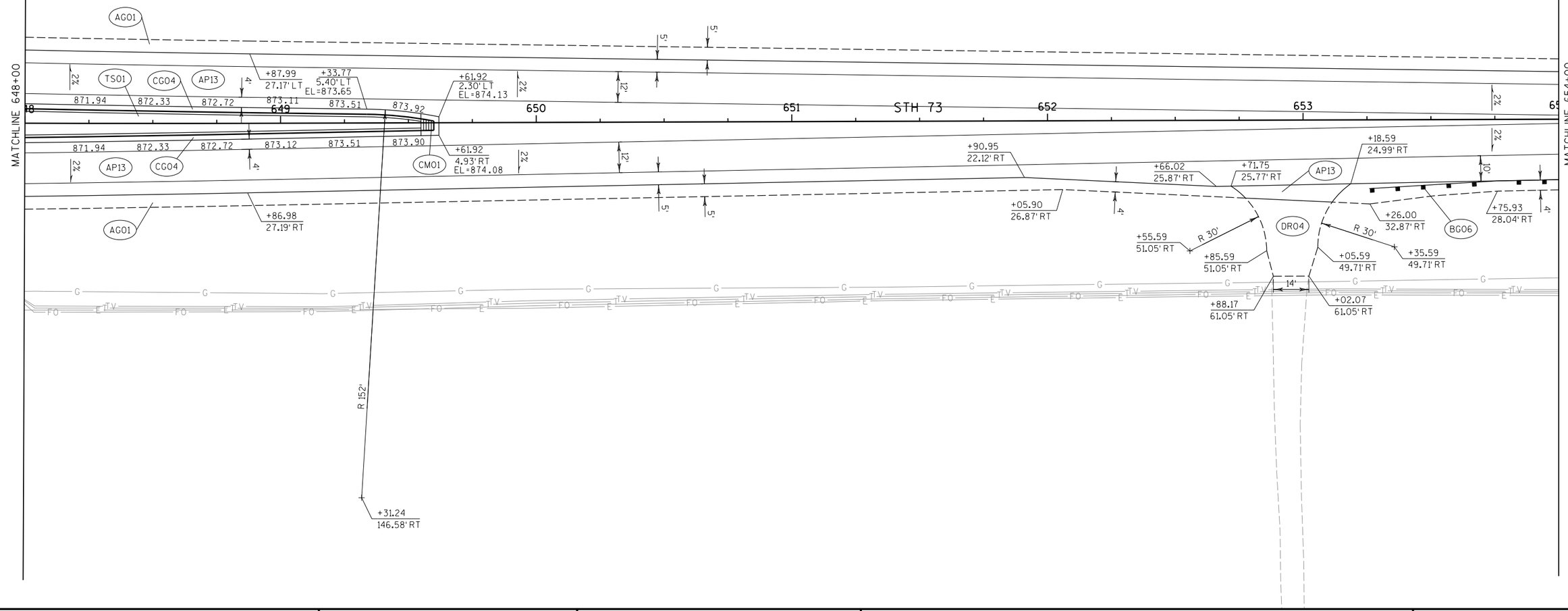
THROUGH THE LOW POINT WARP PAN OF CURB AND GUTTER TO MAINTAIN POSITIVE DRAINAGE SEE TABLE BELOW FOR DETAILS

STATION	PAN SLOPE
640+10 RT	NORMAL PAN SLOPE
641+00 RT	-0.02 FT/FT
641+90 RT	NORMAL PAN SLOPE PLUS 1" INLET DEPRESSION
642+10 RT	NORMAL PAN SLOPE PLUS 1" INLET DEPRESSION
643+00 RT	-0.02 FT/FT
643+90 RT	NORMAL PAN SLOPE

STATION	PAN SLOPE
640+10 LT	NORMAL PAN SLOPE
641+00 LT	-0.02 FT/FT
642+50 LT	NORMAL PAN SLOPE PLUS 1" INLET DEPRESSION
643+00 LT	-0.02 FT/FT
643+90 LT	NORMAL PAN SLOPE

PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (AP07) HMA PAVEMENT TYPE E-3, 4-INCH
- (AP08) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
- (BG01) MGS GUARDRAIL 3
- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
- (BG06) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
- (CP03) CONCRETE PAVEMENT APPROACH SLAB
- (CP04) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- (DR03) ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - STH 73	SHEET 69	E

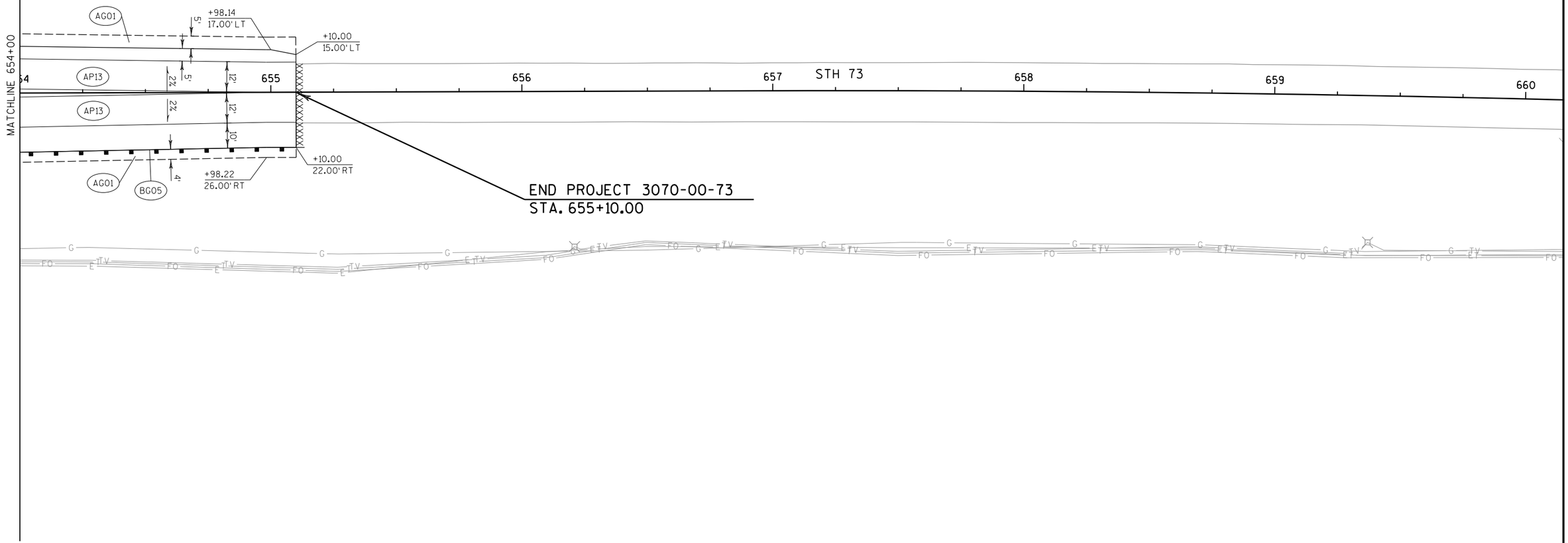
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PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (AP07) HMA PAVEMENT TYPE E-3, 4-INCH
- (AP08) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
- (BG01) MGS GUARDRAIL 3
- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
- (BG06) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
- (CP03) CONCRETE PAVEMENT APPROACH SLAB
- (CP04) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- (DR03) ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

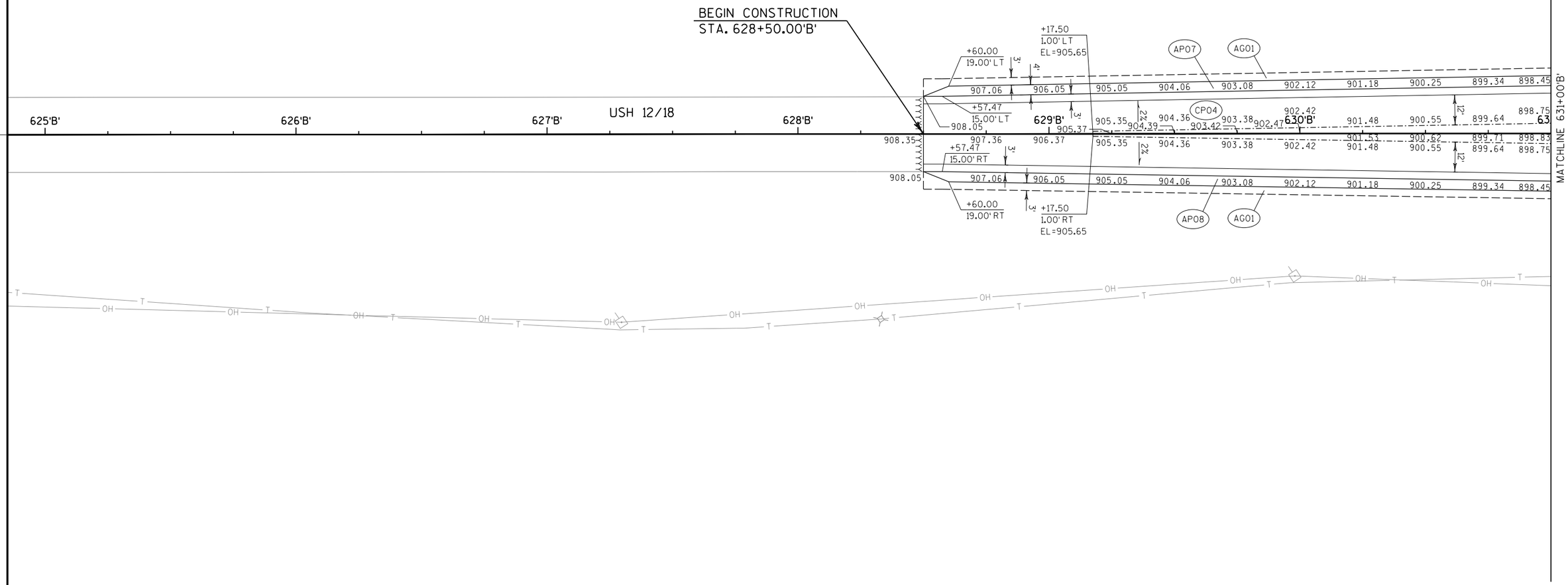
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - STH 73	SHEET 70	E

PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (AP07) HMA PAVEMENT TYPE E-3, 4-INCH
- (AP08) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
- (BG01) MGS GUARDRAIL 3
- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
- (BG06) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
- (CP03) CONCRETE PAVEMENT APPROACH SLAB
- (CP04) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- (DR03) ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



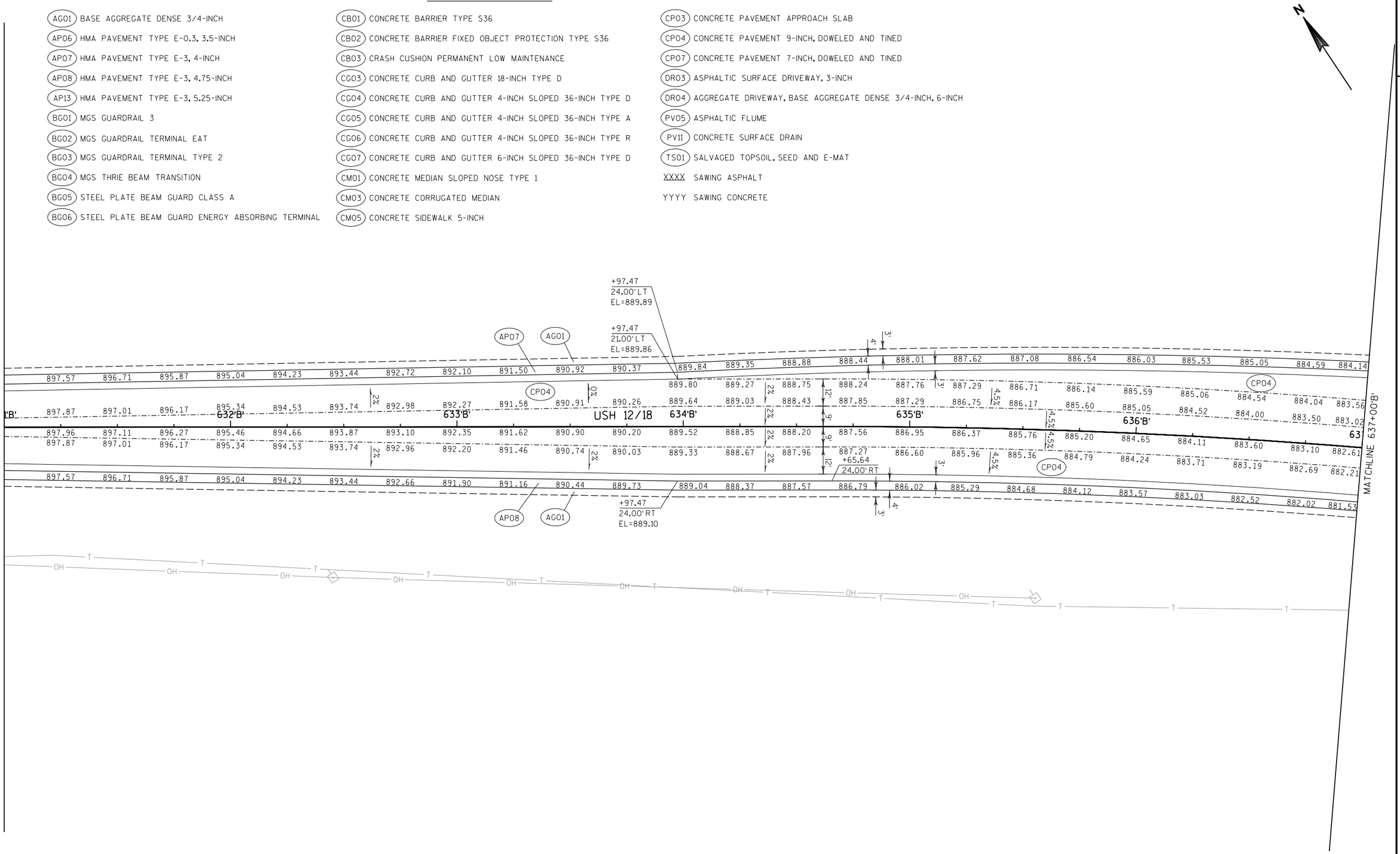
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 71	E

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WISDOT/CADDS SHEET 42

PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (AP07) HMA PAVEMENT TYPE E-3, 4-INCH
- (AP08) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
- (BG01) MGS GUARDRAIL 3
- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
- (BG06) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
- (CP03) CONCRETE PAVEMENT APPROACH SLAB
- (CP04) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- (DR03) ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



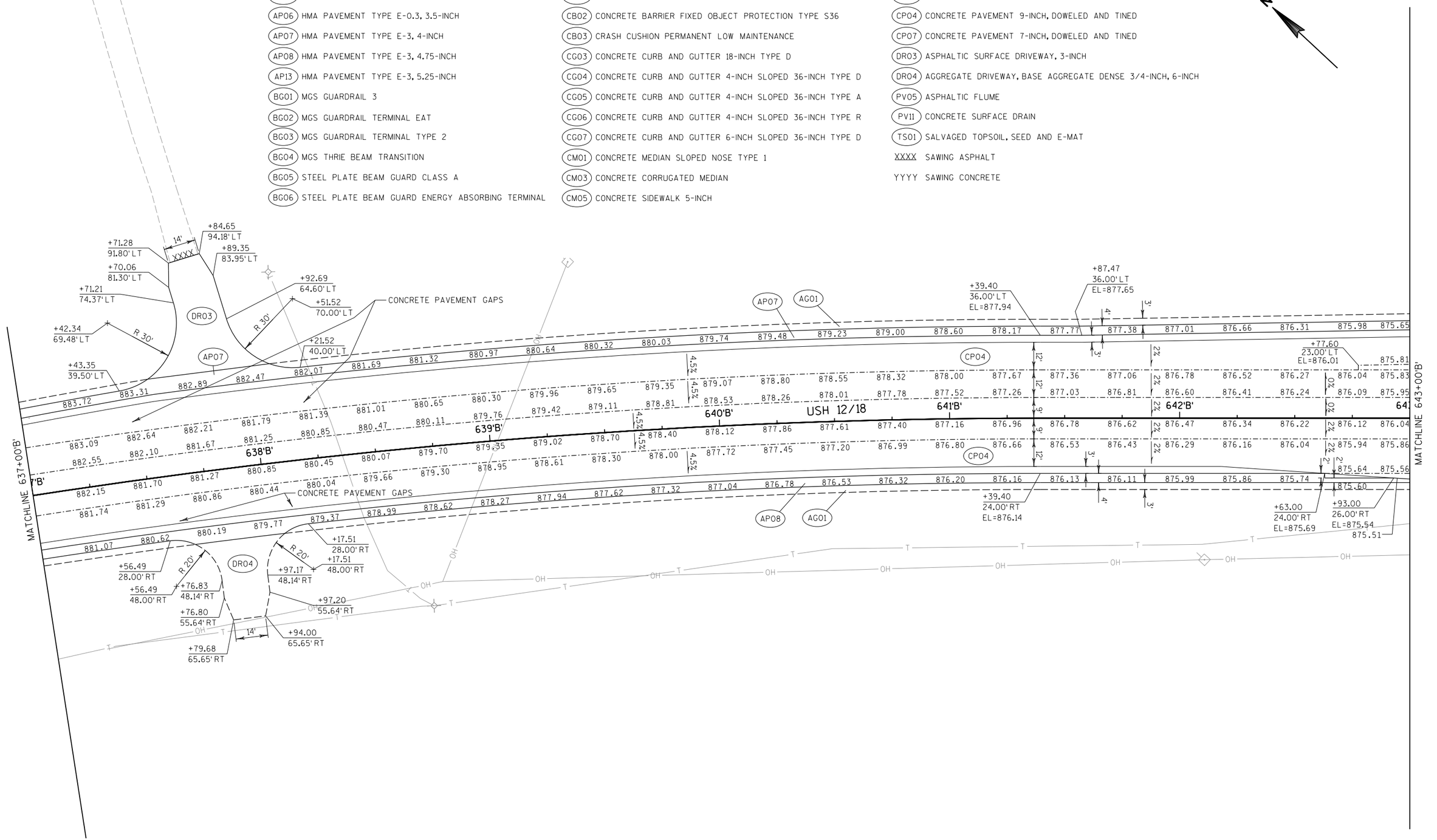
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 72	E

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WISDOT/CADDS SHEET 42

PAVEMENT DETAIL LEGEND

AG01 BASE AGGREGATE DENSE 3/4-INCH	CB01 CONCRETE BARRIER TYPE S36	CP03 CONCRETE PAVEMENT APPROACH SLAB
AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH	CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36	CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
AP07 HMA PAVEMENT TYPE E-3, 4-INCH	CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE	CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH	CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D	DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH	CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BG01 MGS GUARDRAIL 3	CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	PV05 ASPHALTIC FLUME
BG02 MGS GUARDRAIL TERMINAL EAT	CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R	PV11 CONCRETE SURFACE DRAIN
BG03 MGS GUARDRAIL TERMINAL TYPE 2	CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	TS01 SALVAGED TOPSOIL, SEED AND E-MAT
BG04 MGS THRIE BEAM TRANSITION	CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1	XXXX SAWING ASPHALT
BG05 STEEL PLATE BEAM GUARD CLASS A	CM03 CONCRETE CORRUGATED MEDIAN	YYYY SAWING CONCRETE
BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	CM05 CONCRETE SIDEWALK 5-INCH	



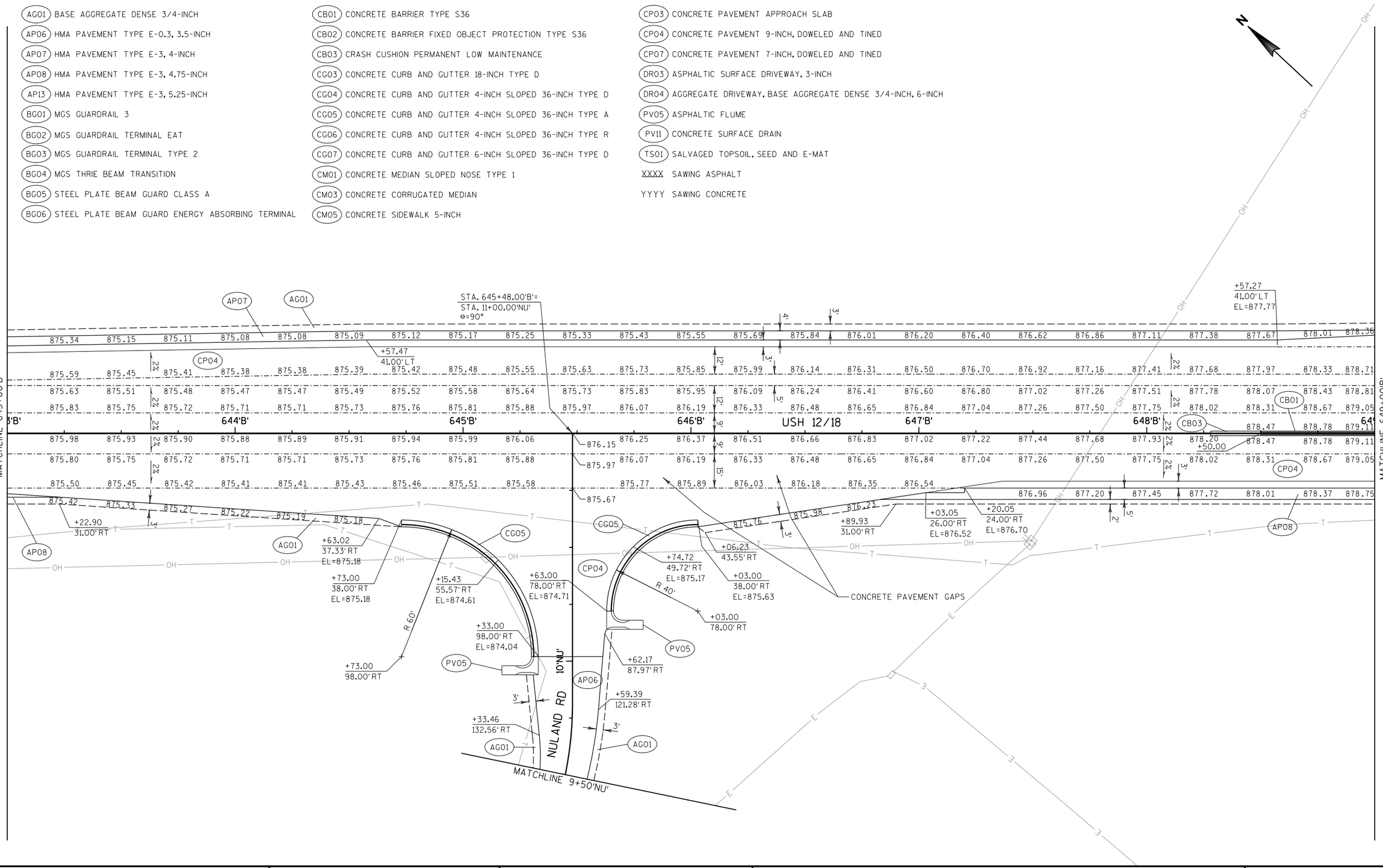
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 73	E

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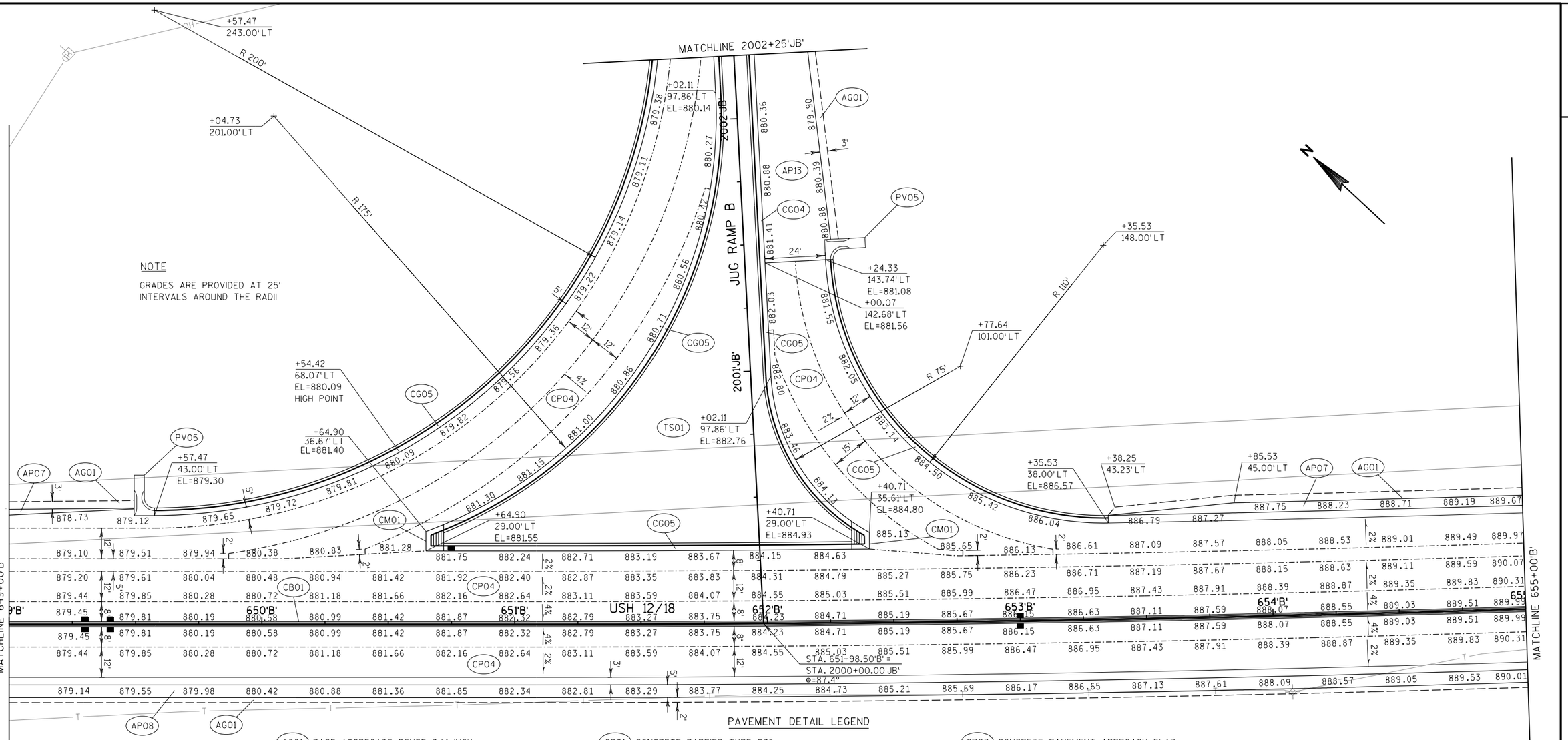
WISDOT/CADDS SHEET 42

PAVEMENT DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- AP07 HMA PAVEMENT TYPE E-3, 4-INCH
- AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH
- AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH
- BG01 MGS GUARDRAIL 3
- BG02 MGS GUARDRAIL TERMINAL EAT
- BG03 MGS GUARDRAIL TERMINAL TYPE 2
- BG04 MGS THRIE BEAM TRANSITION
- BG05 STEEL PLATE BEAM GUARD CLASS A
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- CB01 CONCRETE BARRIER TYPE S36
- CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE
- CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D
- CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- CP03 CONCRETE PAVEMENT APPROACH SLAB
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 74	E

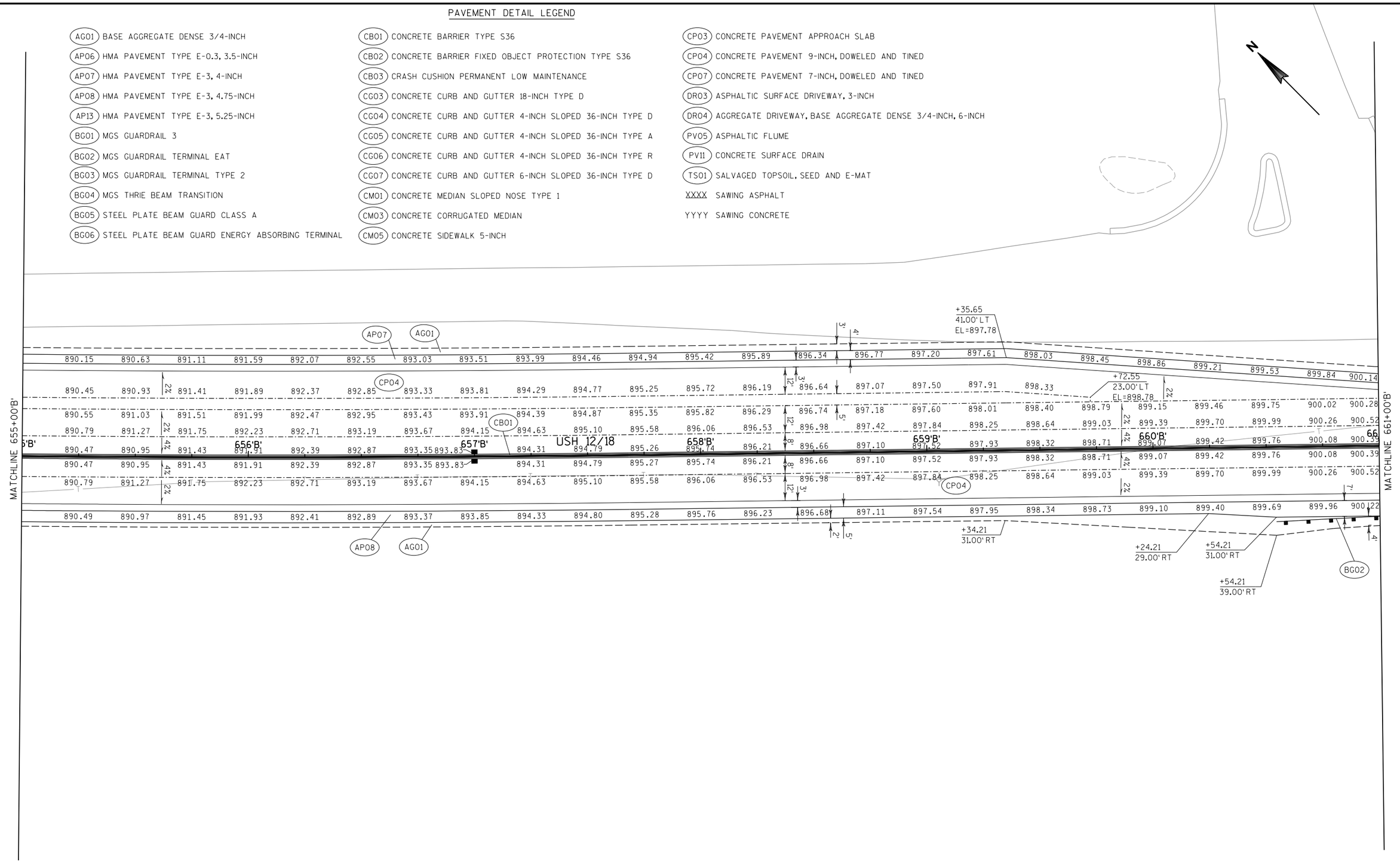


PAVEMENT DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- AP07 HMA PAVEMENT TYPE E-3, 4-INCH
- AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH
- AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH
- BG01 MGS GUARDRAIL 3
- BG02 MGS GUARDRAIL TERMINAL EAT
- BG03 MGS GUARDRAIL TERMINAL TYPE 2
- BG04 MGS THRIE BEAM TRANSITION
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- CB01 CONCRETE BARRIER TYPE S36
- CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE
- CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D
- CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- CP03 CONCRETE PAVEMENT APPROACH SLAB
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (AP07) HMA PAVEMENT TYPE E-3, 4-INCH
- (AP08) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
- (BG01) MGS GUARDRAIL 3
- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
- (BG06) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
- (CP03) CONCRETE PAVEMENT APPROACH SLAB
- (CP04) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- (DR03) ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



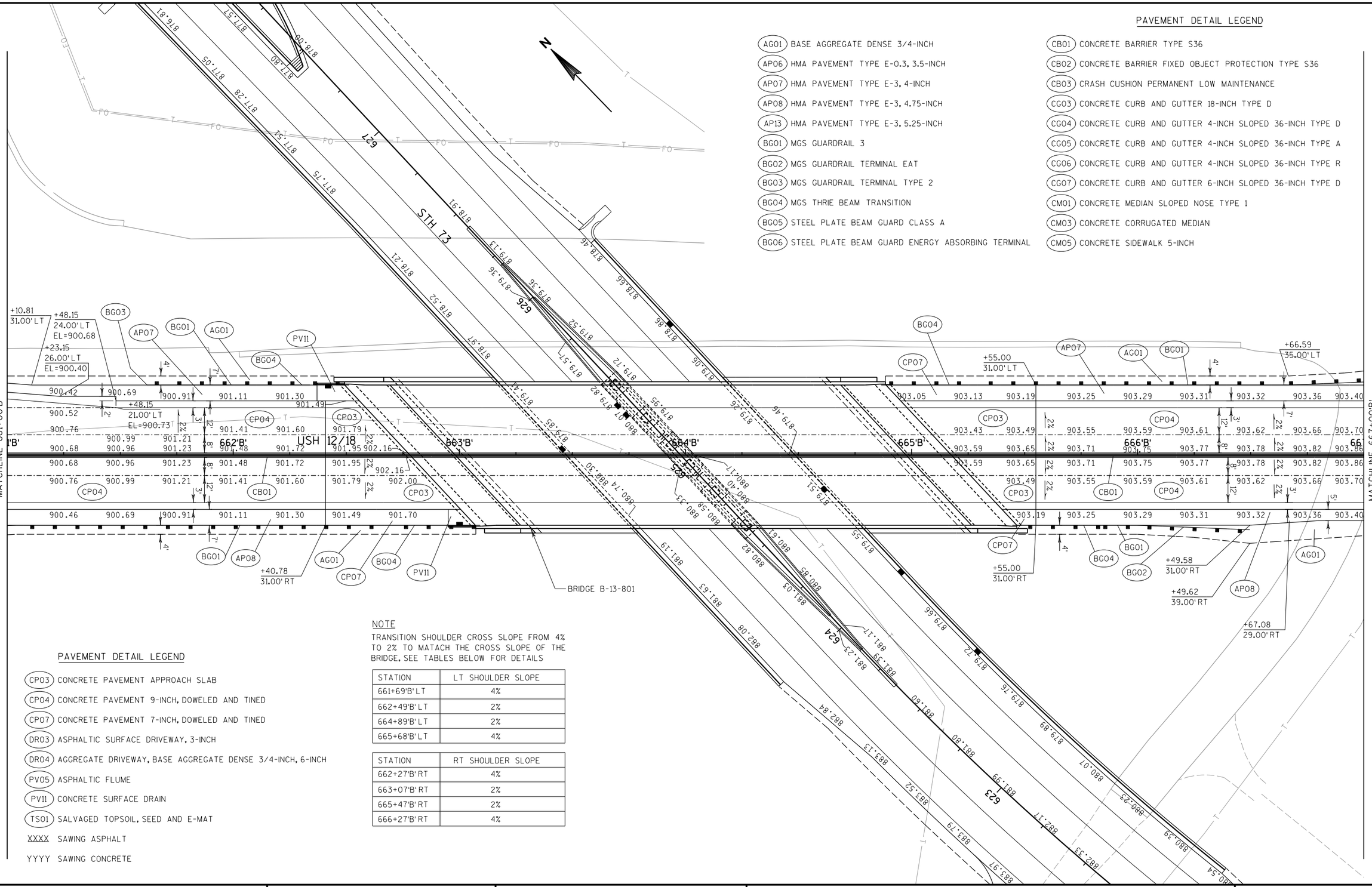
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 76	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\021219_pd.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40

2

PAVEMENT DETAIL LEGEND

AG01	BASE AGGREGATE DENSE 3/4-INCH
AP06	HMA PAVEMENT TYPE E-0.3, 3.5-INCH
AP07	HMA PAVEMENT TYPE E-3, 4-INCH
AP08	HMA PAVEMENT TYPE E-3, 4.75-INCH
AP13	HMA PAVEMENT TYPE E-3, 5.25-INCH
BG01	MGS GUARDRAIL 3
BG02	MGS GUARDRAIL TERMINAL EAT
BG03	MGS GUARDRAIL TERMINAL TYPE 2
BG04	MGS THRIE BEAM TRANSITION
BG05	STEEL PLATE BEAM GUARD CLASS A
BG06	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
CB01	CONCRETE BARRIER TYPE S36
CB02	CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
CB03	CRASH CUSHION PERMANENT LOW MAINTENANCE
CG03	CONCRETE CURB AND GUTTER 18-INCH TYPE D
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CG06	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
CG07	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM03	CONCRETE CORRUGATED MEDIAN
CM05	CONCRETE SIDEWALK 5-INCH



PAVEMENT DETAIL LEGEND

CP03	CONCRETE PAVEMENT APPROACH SLAB
CP04	CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
CP07	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
DR03	ASPHALTIC SURFACE DRIVEWAY, 3-INCH
DR04	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
PV05	ASPHALTIC FLUME
PV11	CONCRETE SURFACE DRAIN
TS01	SALVAGED TOPSOIL, SEED AND E-MAT
XXXX	SAWING ASPHALT
YYYY	SAWING CONCRETE

NOTE

TRANSITION SHOULDER CROSS SLOPE FROM 4% TO 2% TO MATACH THE CROSS SLOPE OF THE BRIDGE, SEE TABLES BELOW FOR DETAILS

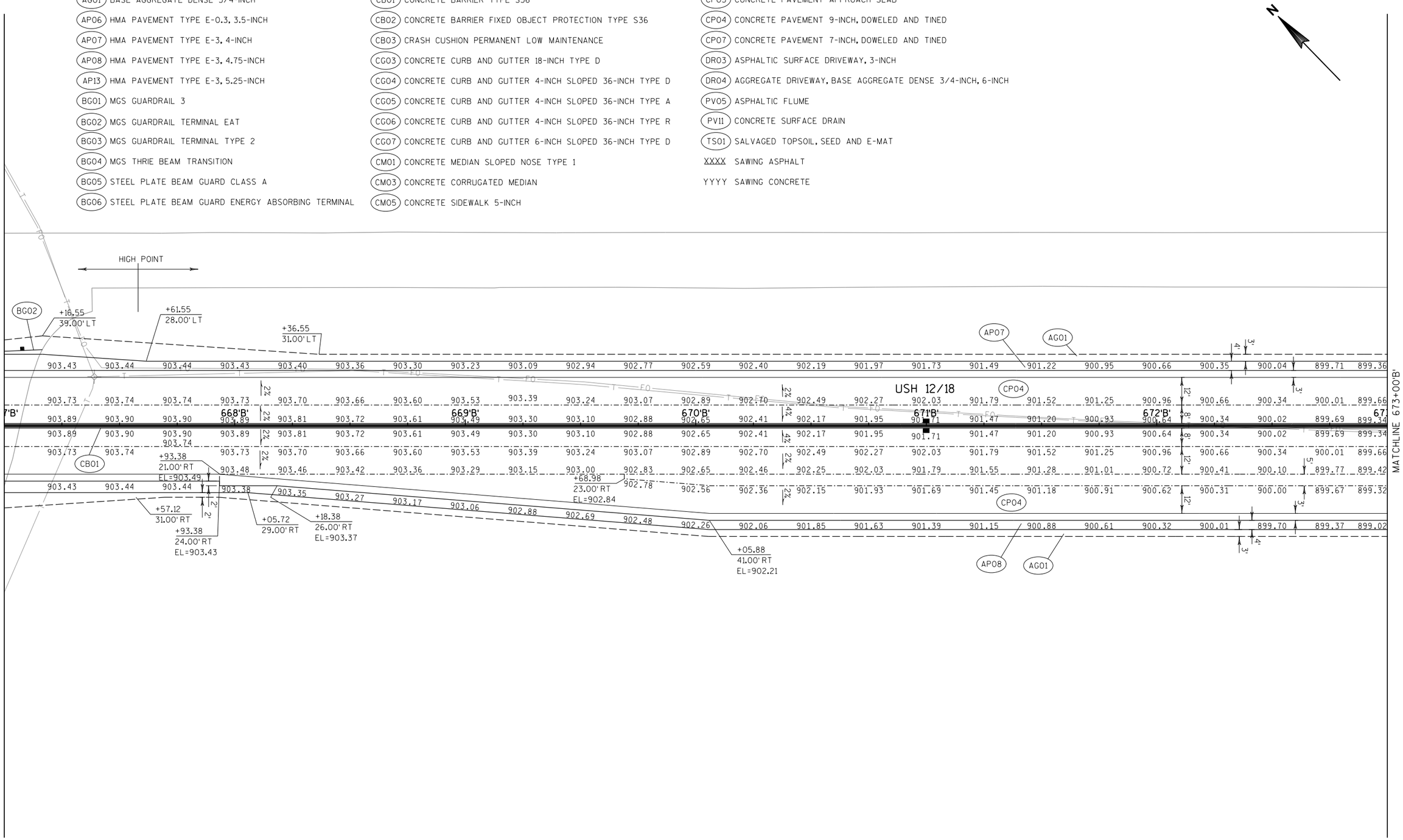
STATION	LT SHOULDER SLOPE
661+69'B' LT	4%
662+49'B' LT	2%
664+89'B' LT	2%
665+68'B' LT	4%

STATION	RT SHOULDER SLOPE
662+27'B' RT	4%
663+07'B' RT	2%
665+47'B' RT	2%
666+27'B' RT	4%

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 77 E

PAVEMENT DETAIL LEGEND

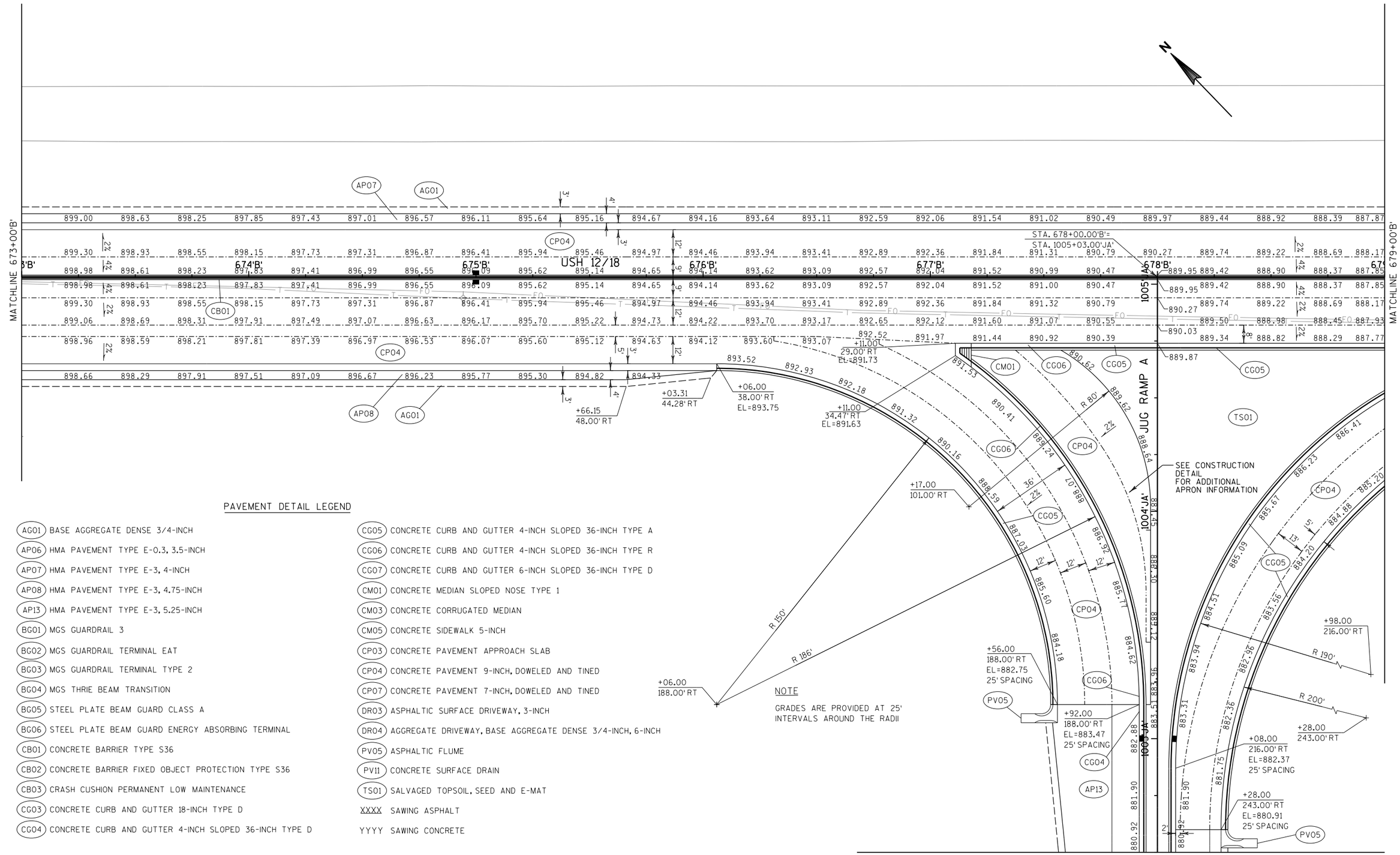
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- AP07 HMA PAVEMENT TYPE E-3, 4-INCH
- AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH
- AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH
- BG01 MGS GUARDRAIL 3
- BG02 MGS GUARDRAIL TERMINAL EAT
- BG03 MGS GUARDRAIL TERMINAL TYPE 2
- BG04 MGS THRIE BEAM TRANSITION
- BG05 STEEL PLATE BEAM GUARD CLASS A
- BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- CB01 CONCRETE BARRIER TYPE S36
- CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE
- CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D
- CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- CP03 CONCRETE PAVEMENT APPROACH SLAB
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 78	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\021221_pd.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



PAVEMENT DETAIL LEGEND

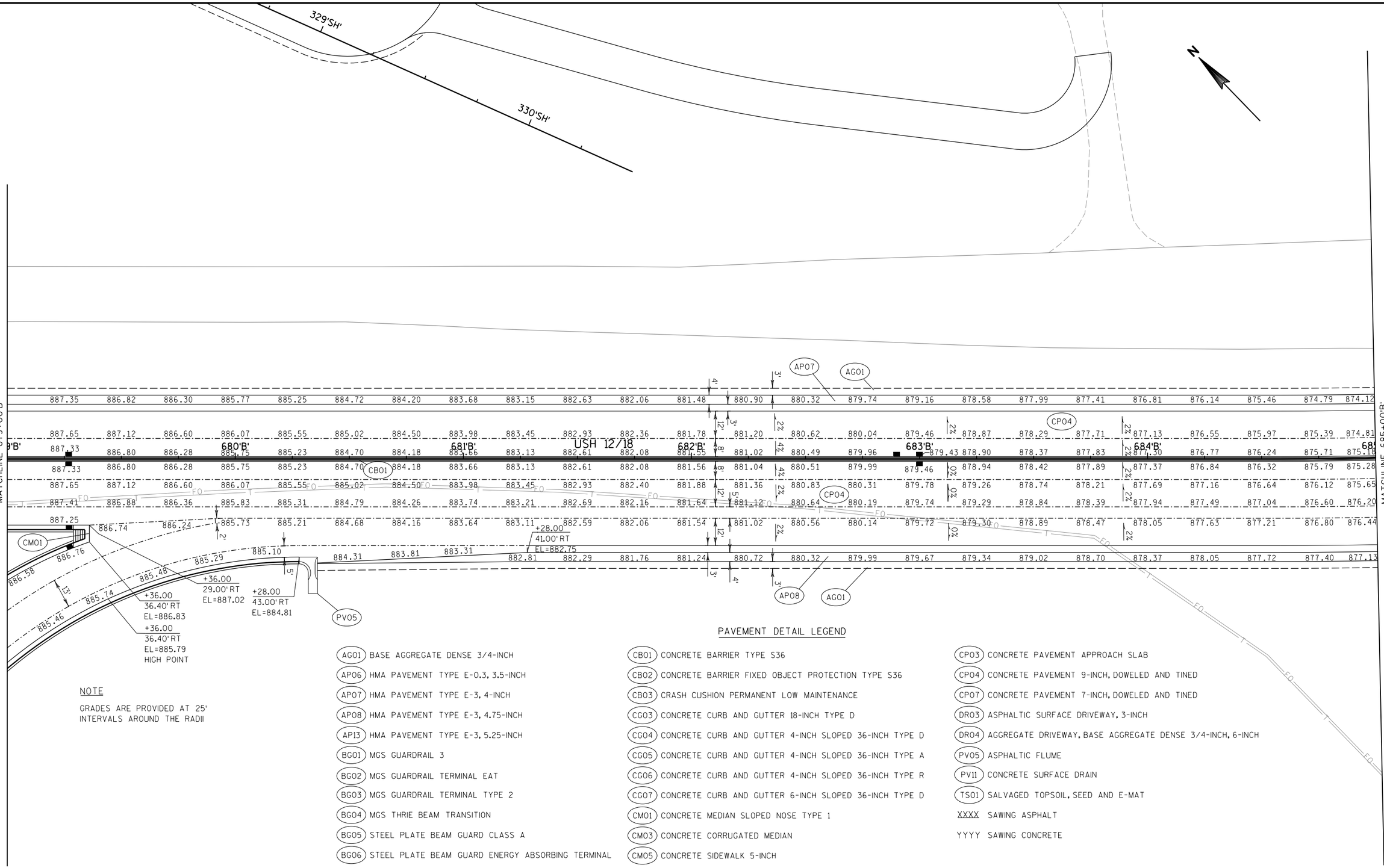
AG01	BASE AGGREGATE DENSE 3/4-INCH
AP06	HMA PAVEMENT TYPE E-0.3, 3.5-INCH
AP07	HMA PAVEMENT TYPE E-3, 4-INCH
AP08	HMA PAVEMENT TYPE E-3, 4.75-INCH
AP13	HMA PAVEMENT TYPE E-3, 5.25-INCH
BG01	MGS GUARDRAIL 3
BG02	MGS GUARDRAIL TERMINAL EAT
BG03	MGS GUARDRAIL TERMINAL TYPE 2
BG04	MGS THRIE BEAM TRANSITION
BG05	STEEL PLATE BEAM GUARD CLASS A
BG06	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
CB01	CONCRETE BARRIER TYPE S36
CB02	CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
CB03	CRASH CUSHION PERMANENT LOW MAINTENANCE
CG03	CONCRETE CURB AND GUTTER 18-INCH TYPE D
CG04	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
CG05	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
CG06	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
CG07	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE TYPE 1
CM03	CONCRETE CORRUGATED MEDIAN
CM05	CONCRETE SIDEWALK 5-INCH
CP03	CONCRETE PAVEMENT APPROACH SLAB
CP04	CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
CP07	CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
DR03	ASPHALTIC SURFACE DRIVEWAY, 3-INCH
DR04	AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
PV05	ASPHALTIC FLUME
PV11	CONCRETE SURFACE DRAIN
TS01	SALVAGED TOPSOIL, SEED AND E-MAT
XXXX	SAWING ASPHALT
YYYY	SAWING CONCRETE

NOTE

GRADES ARE PROVIDED AT 25' INTERVALS AROUND THE RADII

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 79 E

2



NOTE

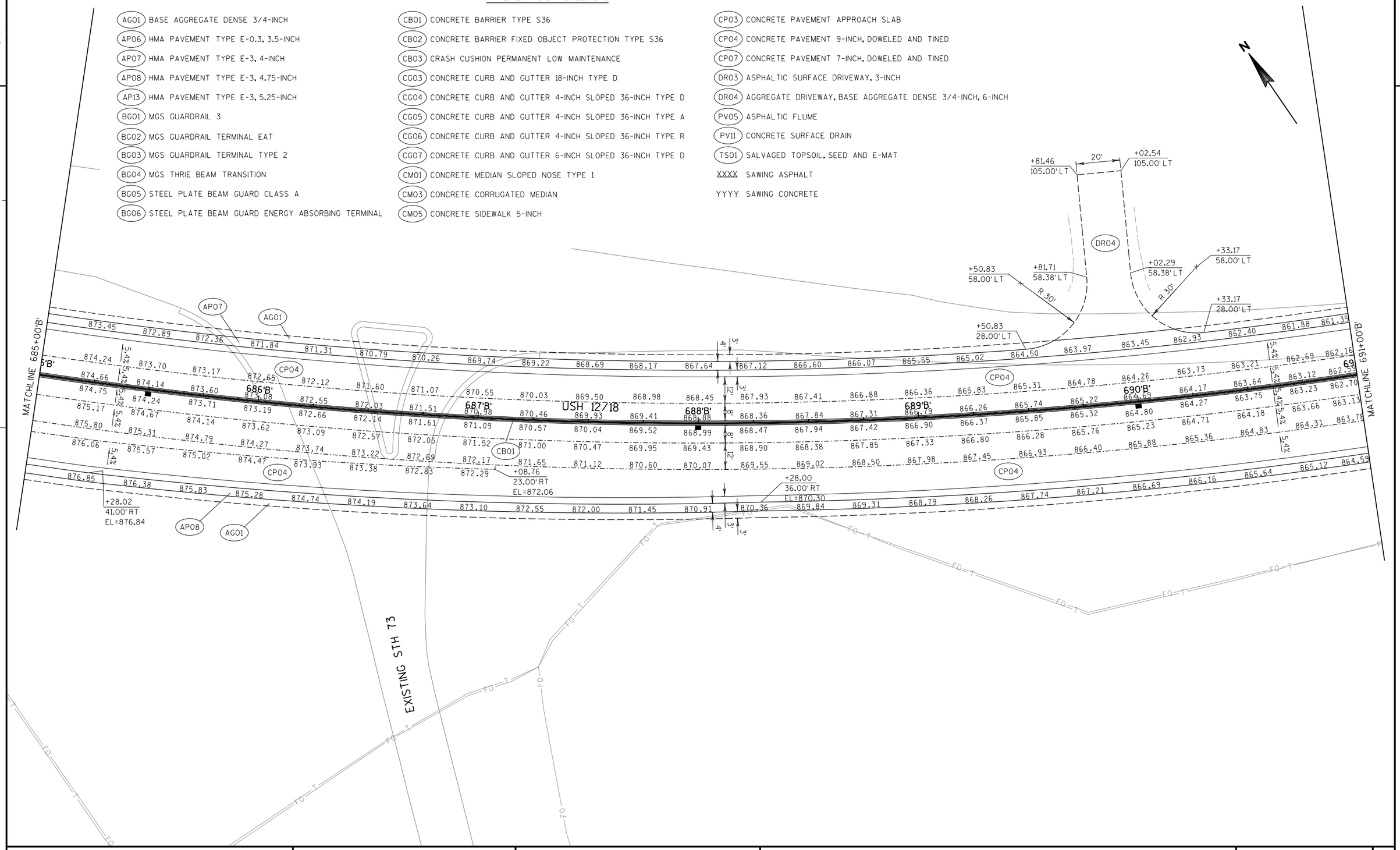
GRADES ARE PROVIDED AT 25' INTERVALS AROUND THE RADII

PAVEMENT DETAIL LEGEND

AG01 BASE AGGREGATE DENSE 3/4-INCH	CB01 CONCRETE BARRIER TYPE S36	CP03 CONCRETE PAVEMENT APPROACH SLAB
AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH	CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36	CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
AP07 HMA PAVEMENT TYPE E-3, 4-INCH	CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE	CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH	CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D	DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH	CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BG01 MGS GUARDRAIL 3	CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	PV05 ASPHALTIC FLUME
BG02 MGS GUARDRAIL TERMINAL EAT	CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R	PV11 CONCRETE SURFACE DRAIN
BG03 MGS GUARDRAIL TERMINAL TYPE 2	CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	TS01 SALVAGED TOPSOIL, SEED AND E-MAT
BG04 MGS THRIE BEAM TRANSITION	CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1	XXXX SAWING ASPHALT
BG05 STEEL PLATE BEAM GUARD CLASS A	CM03 CONCRETE CORRUGATED MEDIAN	YYYY SAWING CONCRETE
BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	CM05 CONCRETE SIDEWALK 5-INCH	

PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (AP07) HMA PAVEMENT TYPE E-3, 4-INCH
- (AP08) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
- (BG01) MGS GUARDRAIL 3
- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
- (BG06) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
- (CP03) CONCRETE PAVEMENT APPROACH SLAB
- (CP04) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- (DR03) ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

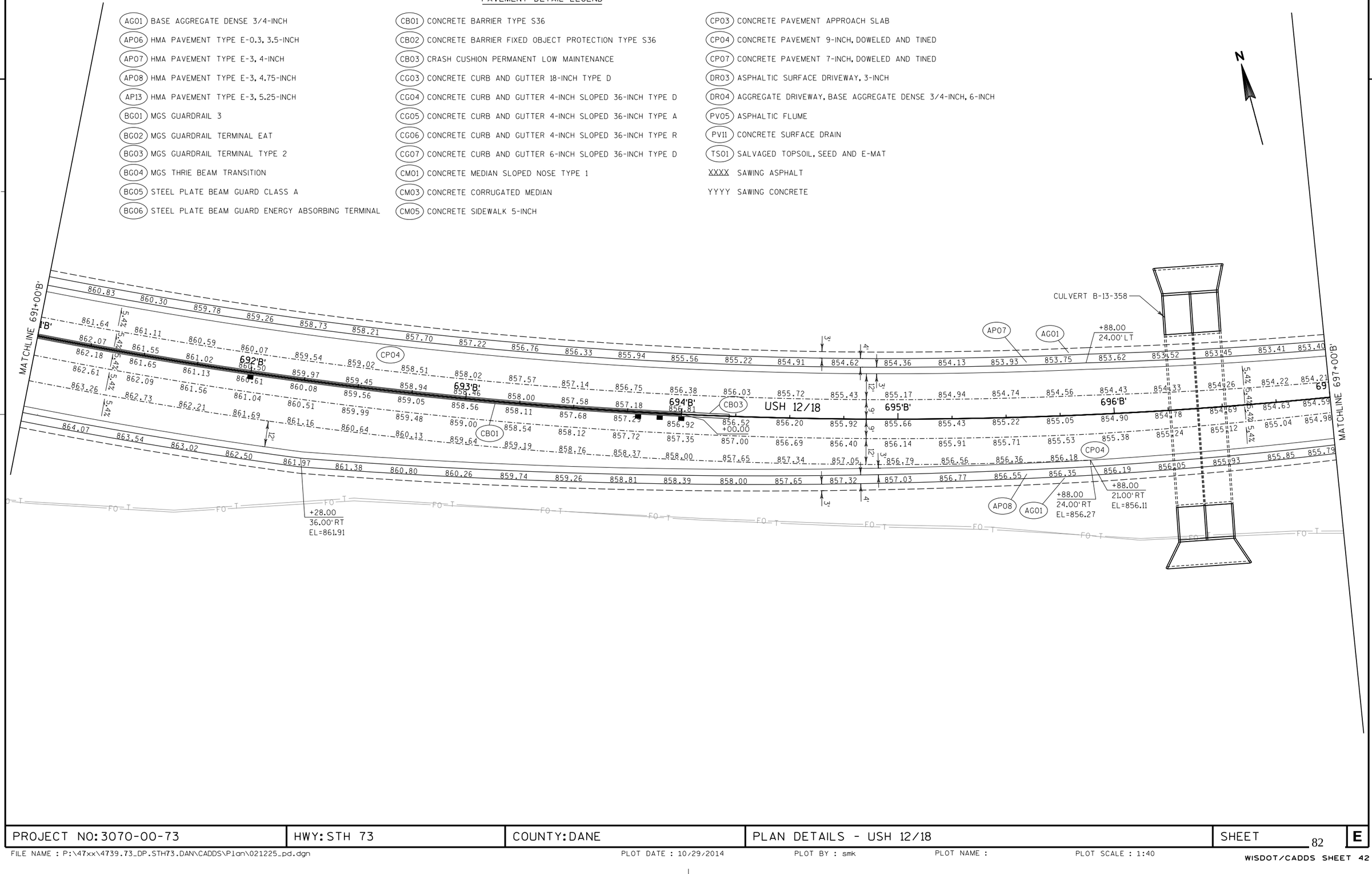


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 81	E

2

PAVEMENT DETAIL LEGEND

AG01 BASE AGGREGATE DENSE 3/4-INCH	CB01 CONCRETE BARRIER TYPE S36	CP03 CONCRETE PAVEMENT APPROACH SLAB
AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH	CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36	CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
AP07 HMA PAVEMENT TYPE E-3, 4-INCH	CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE	CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH	CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D	DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH	CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BG01 MGS GUARDRAIL 3	CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	PV05 ASPHALTIC FLUME
BG02 MGS GUARDRAIL TERMINAL EAT	CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R	PV11 CONCRETE SURFACE DRAIN
BG03 MGS GUARDRAIL TERMINAL TYPE 2	CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	TS01 SALVAGED TOPSOIL, SEED AND E-MAT
BG04 MGS THRIE BEAM TRANSITION	CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1	XXXX SAWING ASPHALT
BG05 STEEL PLATE BEAM GUARD CLASS A	CM03 CONCRETE CORRUGATED MEDIAN	YYYY SAWING CONCRETE
BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	CM05 CONCRETE SIDEWALK 5-INCH	

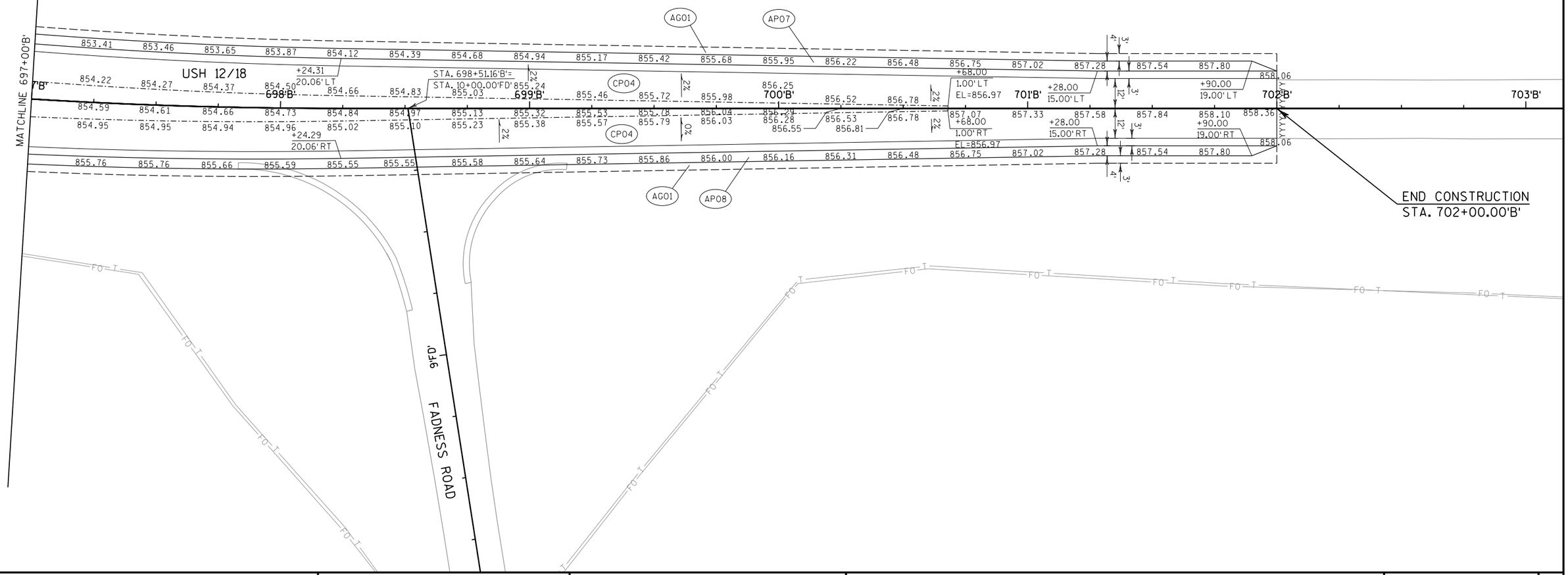


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 82	E

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PAVEMENT DETAIL LEGEND

- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (AP07) HMA PAVEMENT TYPE E-3, 4-INCH
- (AP08) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
- (BG01) MGS GUARDRAIL 3
- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
- (BG06) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
- (CP03) CONCRETE PAVEMENT APPROACH SLAB
- (CP04) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- (DR03) ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

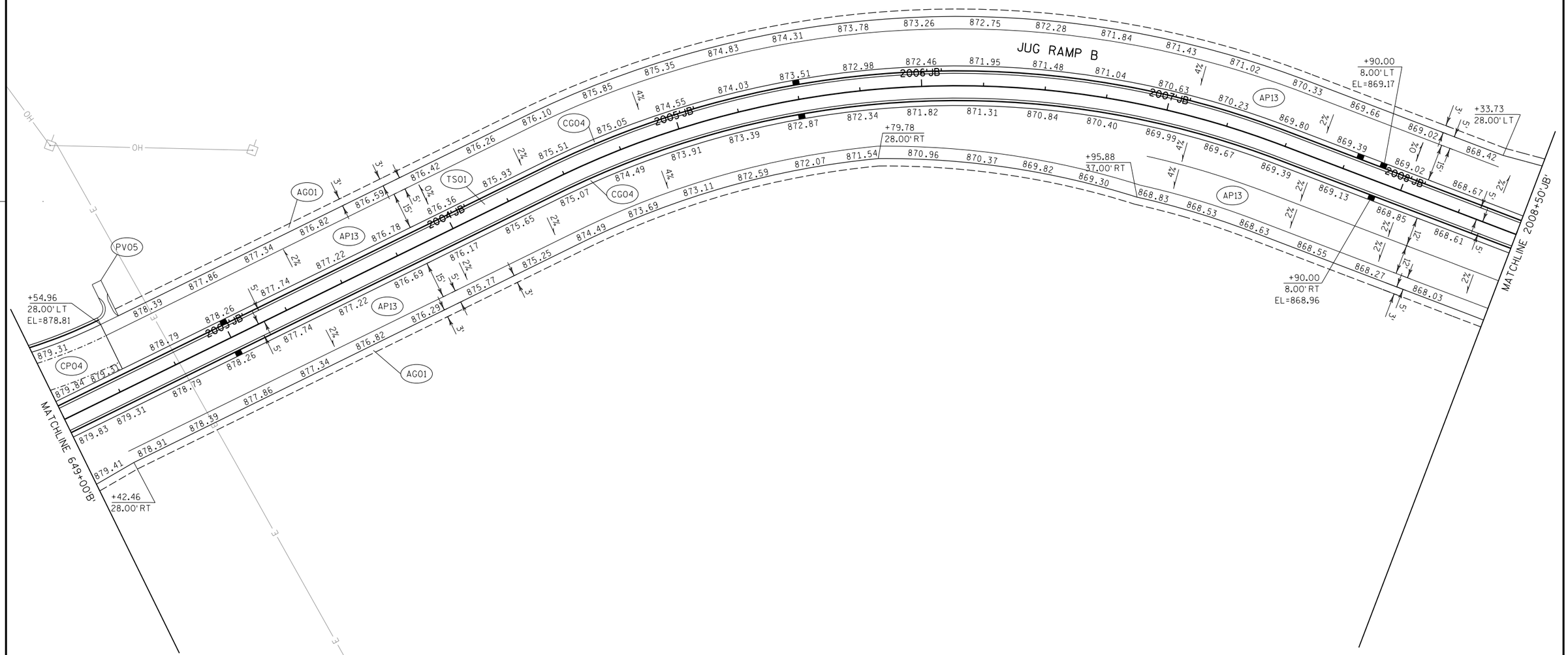


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - USH 12/18	SHEET 83	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\021226_pd.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40

PAVEMENT DETAIL LEGEND

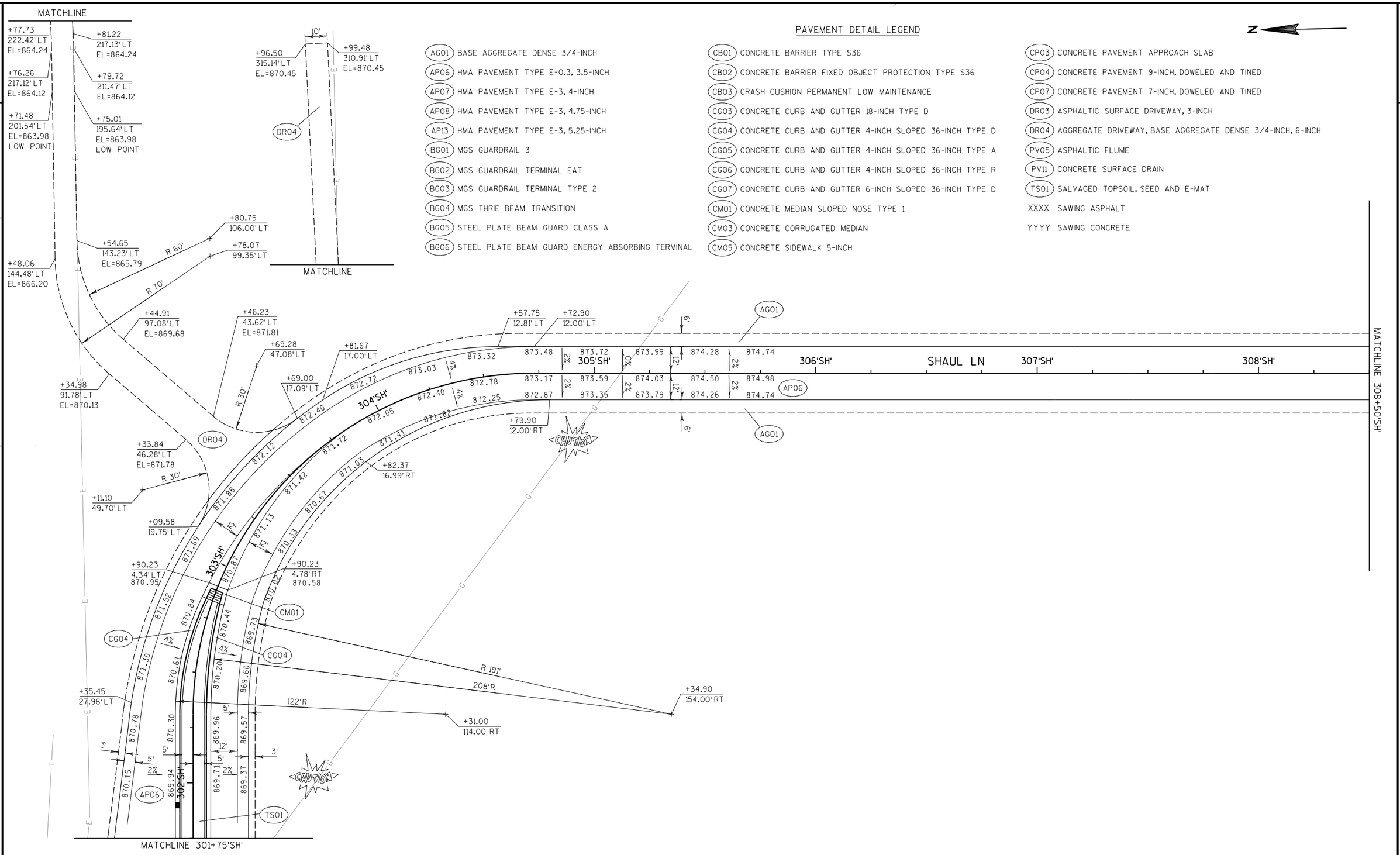
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (AP06) HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- (AP07) HMA PAVEMENT TYPE E-3, 4-INCH
- (AP08) HMA PAVEMENT TYPE E-3, 4.75-INCH
- (AP13) HMA PAVEMENT TYPE E-3, 5.25-INCH
- (BG01) MGS GUARDRAIL 3
- (BG02) MGS GUARDRAIL TERMINAL EAT
- (BG03) MGS GUARDRAIL TERMINAL TYPE 2
- (BG04) MGS THRIE BEAM TRANSITION
- (BG05) STEEL PLATE BEAM GUARD CLASS A
- (BG06) STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- (CB01) CONCRETE BARRIER TYPE S36
- (CB02) CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- (CB03) CRASH CUSHION PERMANENT LOW MAINTENANCE
- (CG03) CONCRETE CURB AND GUTTER 18-INCH TYPE D
- (CG04) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (CG05) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- (CG06) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- (CG07) CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM03) CONCRETE CORRUGATED MEDIAN
- (CM05) CONCRETE SIDEWALK 5-INCH
- (CP03) CONCRETE PAVEMENT APPROACH SLAB
- (CP04) CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- (CP07) CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- (DR03) ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- (DR04) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- (PV05) ASPHALTIC FLUME
- (PV11) CONCRETE SURFACE DRAIN
- (TS01) SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - JUG RAMP B	SHEET 84	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\021228_pd.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



PAVEMENT DETAIL LEGEND

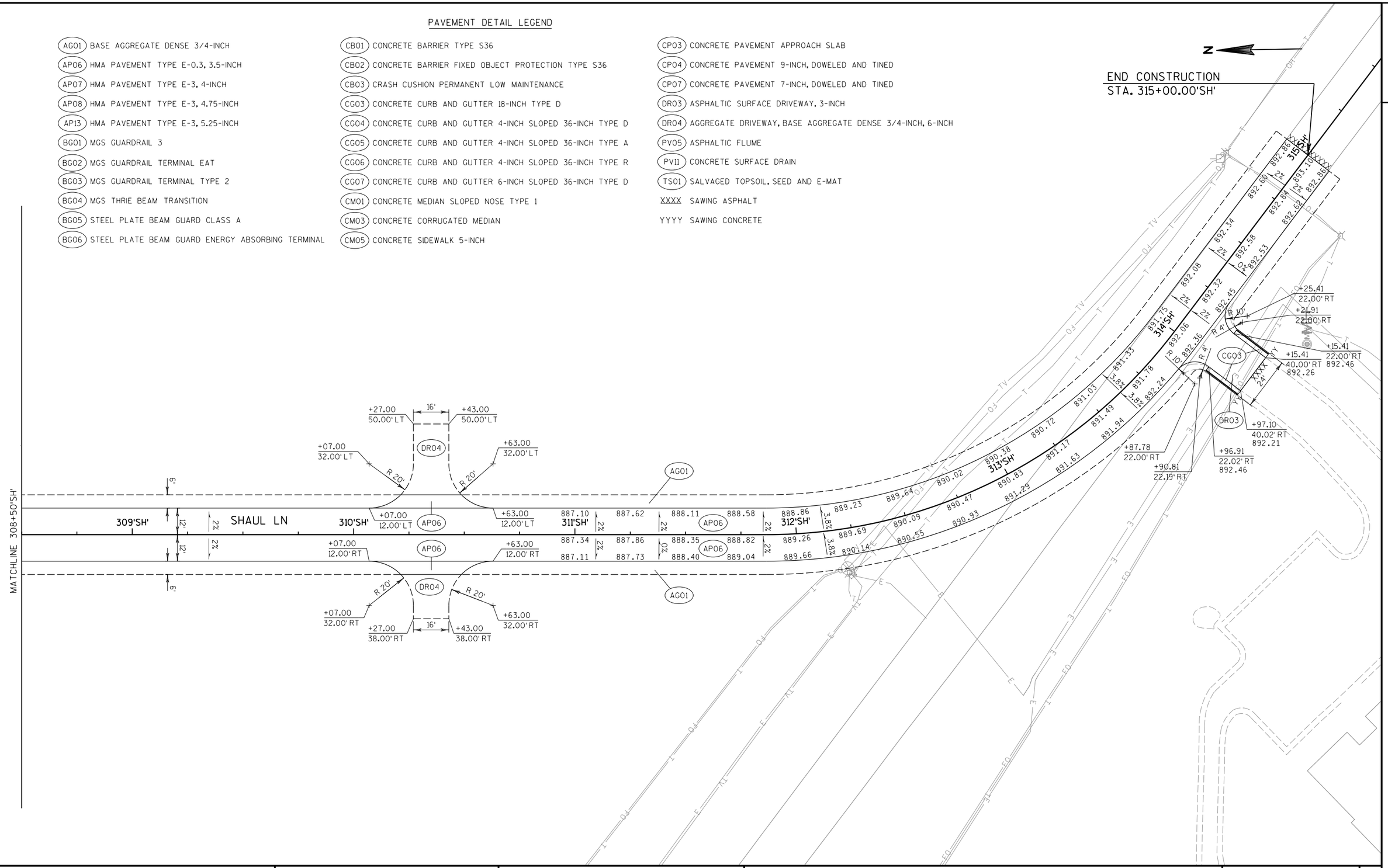
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- AP07 HMA PAVEMENT TYPE E-3, 4-INCH
- AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH
- AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH
- BG01 MGS GUARDRAIL 3
- BG02 MGS GUARDRAIL TERMINAL EAT
- BG03 MGS GUARDRAIL TERMINAL TYPE 2
- BG04 MGS THRIE BEAM TRANSITION
- BG05 STEEL PLATE BEAM GUARD CLASS A
- BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- CB01 CONCRETE BARRIER TYPE S36
- CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36
- CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE
- CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D
- CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- CP03 CONCRETE PAVEMENT APPROACH SLAB
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE

2

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - SHAUL LANE	SHEET 85	E

PAVEMENT DETAIL LEGEND

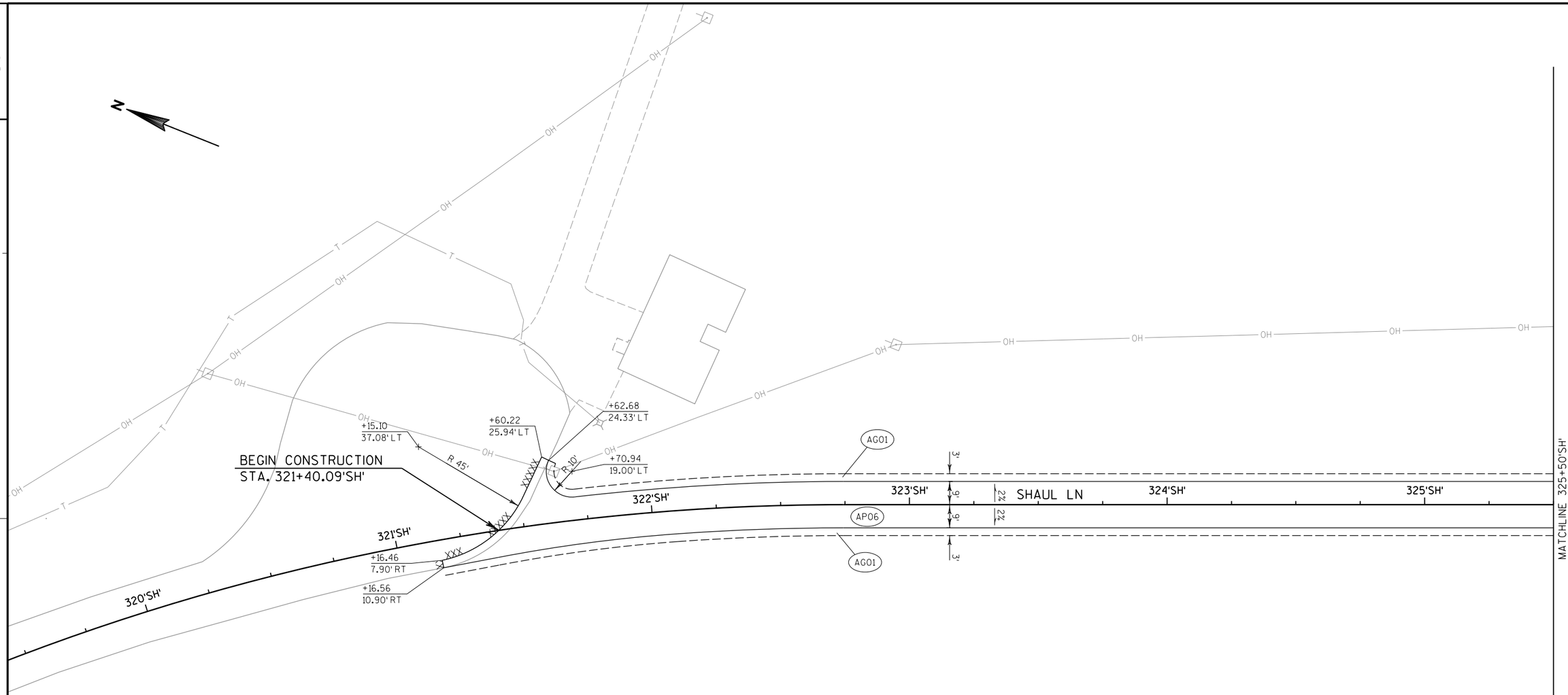
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- AP07 HMA PAVEMENT TYPE E-3, 4-INCH
- AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH
- AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH
- BG01 MGS GUARDRAIL 3
- BG02 MGS GUARDRAIL TERMINAL EAT
- BG03 MGS GUARDRAIL TERMINAL TYPE 2
- BG04 MGS THRIE BEAM TRANSITION
- BG05 STEEL PLATE BEAM GUARD CLASS A
- BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
- CB01 CONCRETE BARRIER TYPE S36
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- CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE
- CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D
- CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- CP03 CONCRETE PAVEMENT APPROACH SLAB
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - SHAUL LANE	SHEET 86 E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\021230_pd.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40

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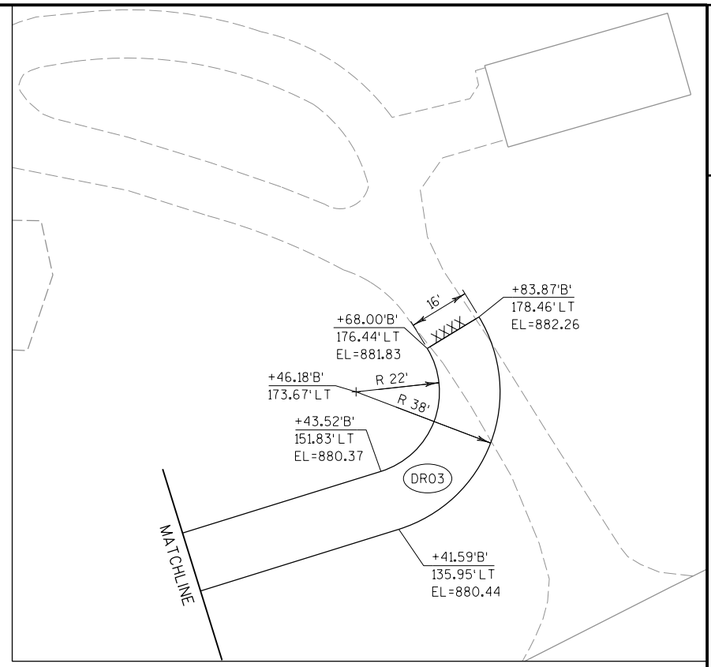


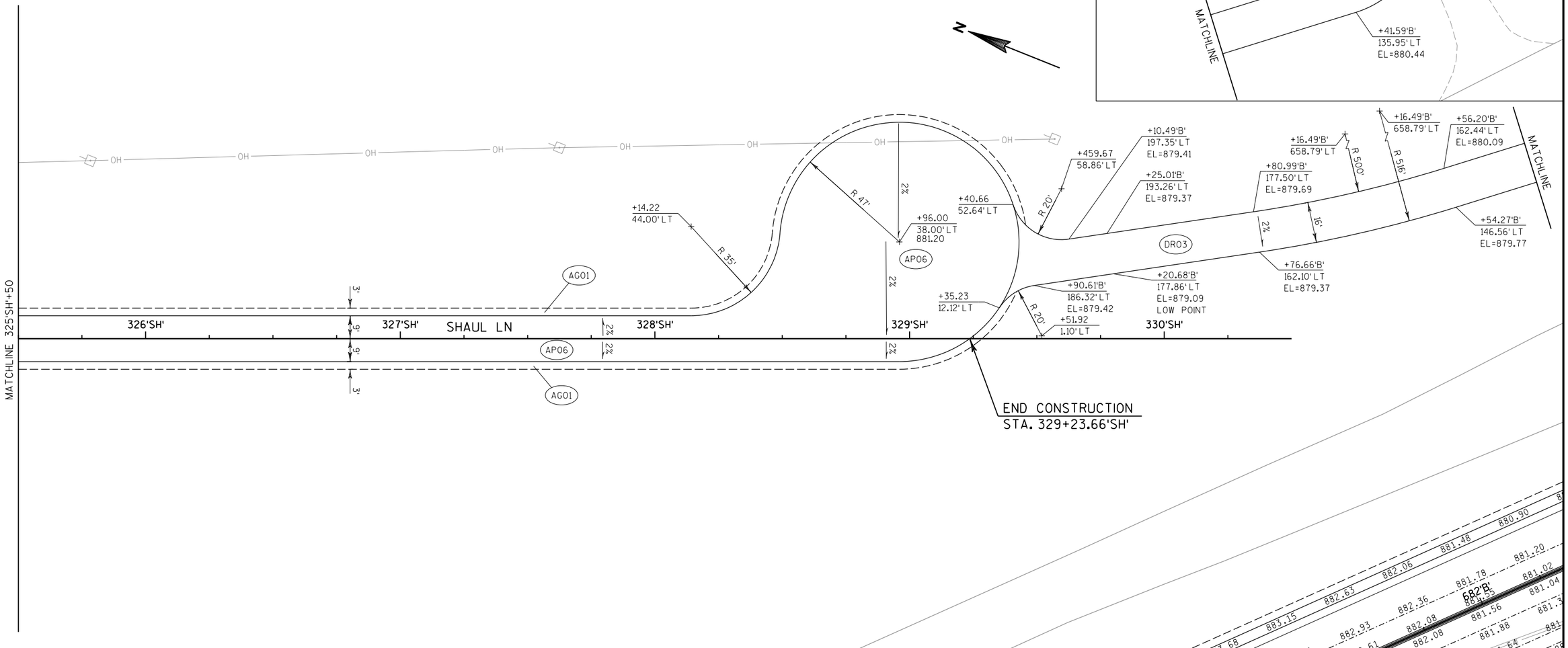
PAVEMENT DETAIL LEGEND

AG01 BASE AGGREGATE DENSE 3/4-INCH	CB01 CONCRETE BARRIER TYPE S36	CP03 CONCRETE PAVEMENT APPROACH SLAB
AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH	CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36	CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
AP07 HMA PAVEMENT TYPE E-3, 4-INCH	CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE	CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH	CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D	DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH	CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BG01 MGS GUARDRAIL 3	CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	PV05 ASPHALTIC FLUME
BG02 MGS GUARDRAIL TERMINAL EAT	CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R	PV11 CONCRETE SURFACE DRAIN
BG03 MGS GUARDRAIL TERMINAL TYPE 2	CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	TS01 SALVAGED TOPSOIL, SEED AND E-MAT
BG04 MGS THRIE BEAM TRANSITION	CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1	XXXX SAWING ASPHALT
BG05 STEEL PLATE BEAM GUARD CLASS A	CM03 CONCRETE CORRUGATED MEDIAN	YYYY SAWING CONCRETE
BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	CM05 CONCRETE SIDEWALK 5-INCH	

PAVEMENT DETAIL LEGEND

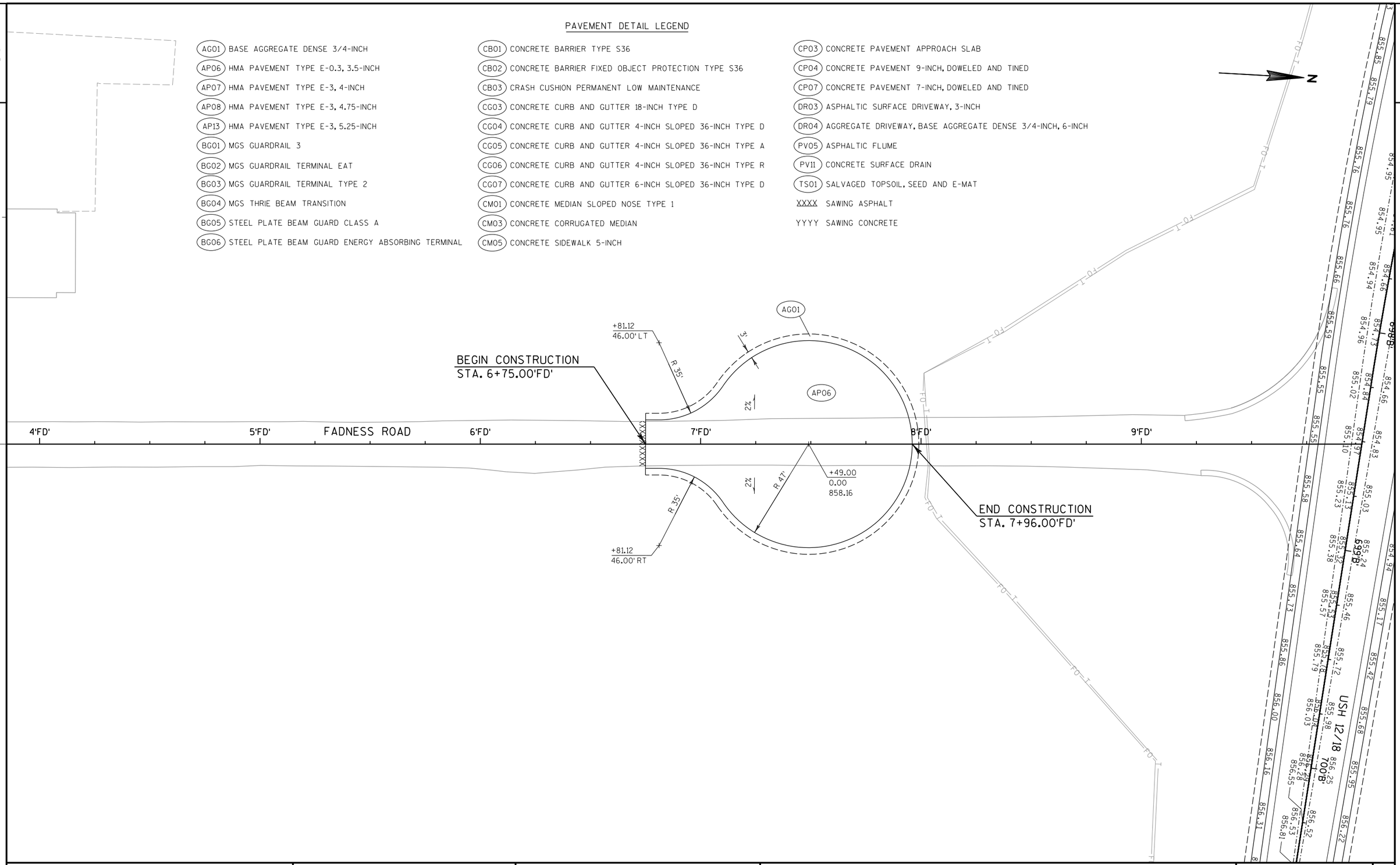
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- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- AP07 HMA PAVEMENT TYPE E-3, 4-INCH
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- AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH
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- BG02 MGS GUARDRAIL TERMINAL EAT
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- CB01 CONCRETE BARRIER TYPE S36
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- CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE
- CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D
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- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
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- CP03 CONCRETE PAVEMENT APPROACH SLAB
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE





PAVEMENT DETAIL LEGEND

AG01 BASE AGGREGATE DENSE 3/4-INCH	CB01 CONCRETE BARRIER TYPE S36	CP03 CONCRETE PAVEMENT APPROACH SLAB
AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH	CB02 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36	CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
AP07 HMA PAVEMENT TYPE E-3, 4-INCH	CB03 CRASH CUSHION PERMANENT LOW MAINTENANCE	CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH	CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D	DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH	CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
BG01 MGS GUARDRAIL 3	CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A	PV05 ASPHALTIC FLUME
BG02 MGS GUARDRAIL TERMINAL EAT	CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R	PV11 CONCRETE SURFACE DRAIN
BG03 MGS GUARDRAIL TERMINAL TYPE 2	CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	TS01 SALVAGED TOPSOIL, SEED AND E-MAT
BG04 MGS THRIE BEAM TRANSITION	CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1	XXXX SAWING ASPHALT
BG05 STEEL PLATE BEAM GUARD CLASS A	CM03 CONCRETE CORRUGATED MEDIAN	YYYY SAWING CONCRETE
BG06 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	CM05 CONCRETE SIDEWALK 5-INCH	



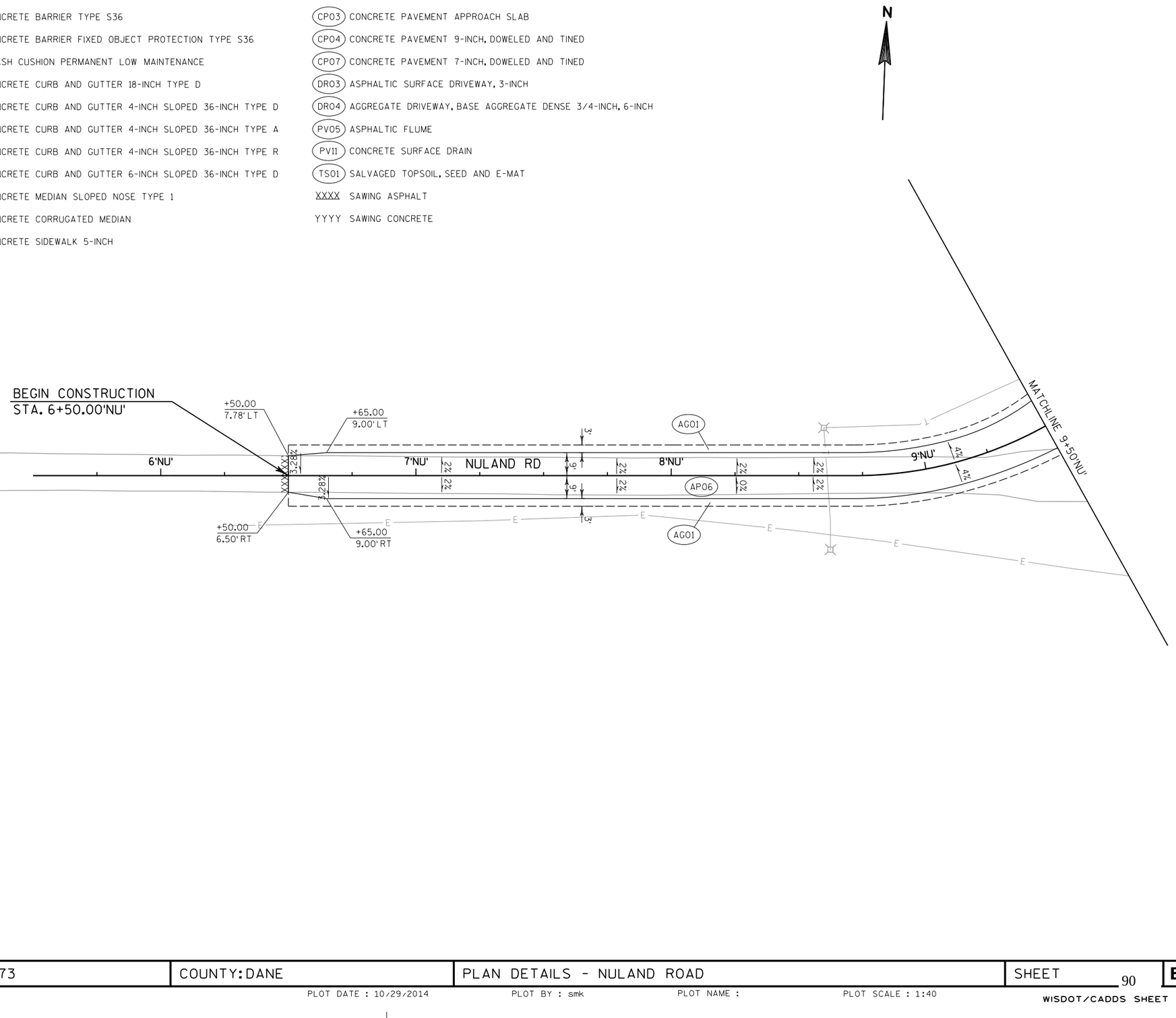
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - FADNESS ROAD	SHEET 89	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\021233_pd.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40.0002

WISDOT/CADDS SHEET 42

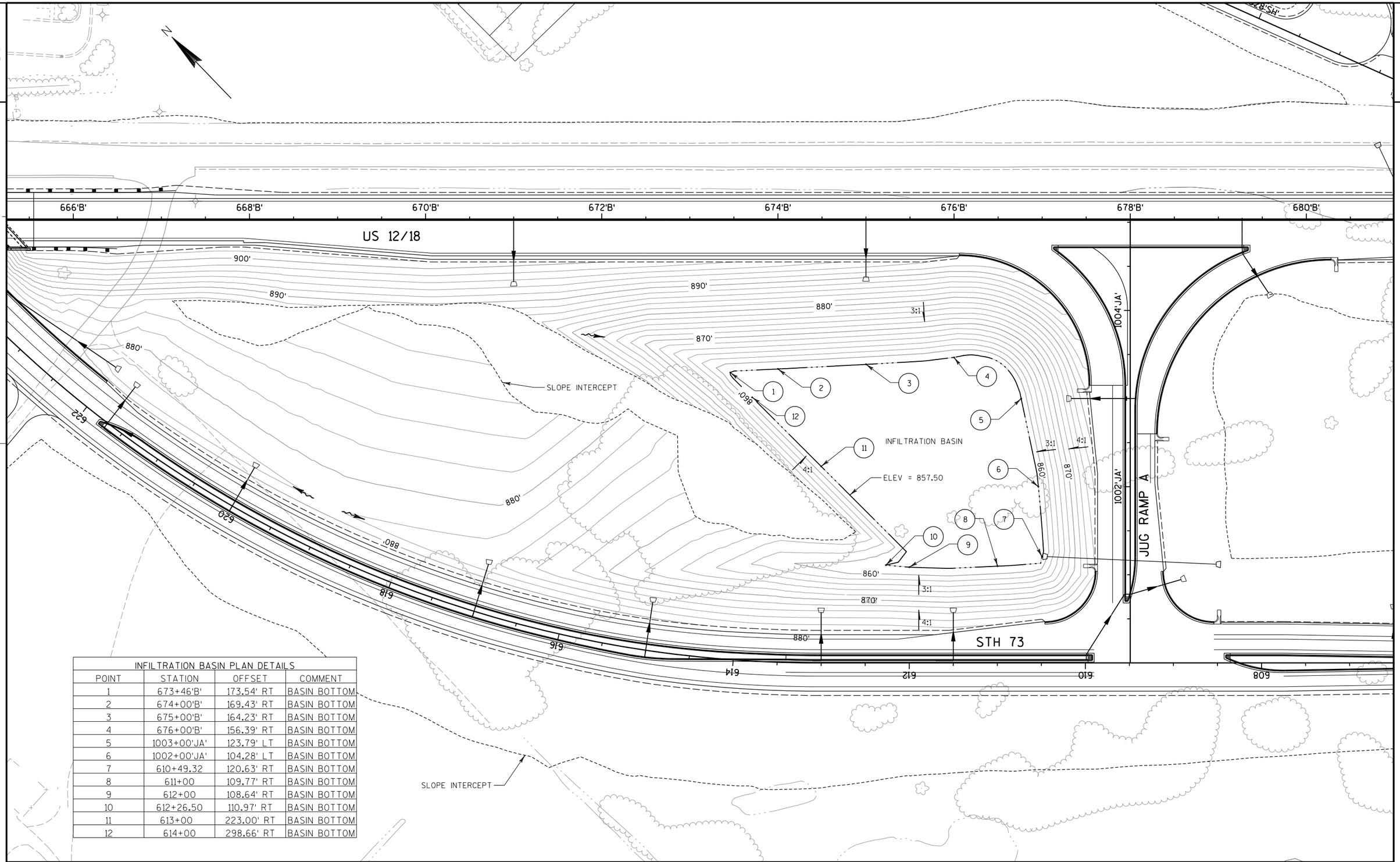
PAVEMENT DETAIL LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP06 HMA PAVEMENT TYPE E-0.3, 3.5-INCH
- AP07 HMA PAVEMENT TYPE E-3, 4-INCH
- AP08 HMA PAVEMENT TYPE E-3, 4.75-INCH
- AP13 HMA PAVEMENT TYPE E-3, 5.25-INCH
- BG01 MGS GUARDRAIL 3
- BG02 MGS GUARDRAIL TERMINAL EAT
- BG03 MGS GUARDRAIL TERMINAL TYPE 2
- BG04 MGS THRIE BEAM TRANSITION
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- CG03 CONCRETE CURB AND GUTTER 18-INCH TYPE D
- CG04 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D
- CG05 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE A
- CG06 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R
- CG07 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM05 CONCRETE SIDEWALK 5-INCH
- CP03 CONCRETE PAVEMENT APPROACH SLAB
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP07 CONCRETE PAVEMENT 7-INCH, DOWELED AND TINED
- DR03 ASPHALTIC SURFACE DRIVEWAY, 3-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- PV05 ASPHALTIC FLUME
- PV11 CONCRETE SURFACE DRAIN
- TS01 SALVAGED TOPSOIL, SEED AND E-MAT
- XXXX SAWING ASPHALT
- YYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAILS - NULAND ROAD	SHEET 90	E

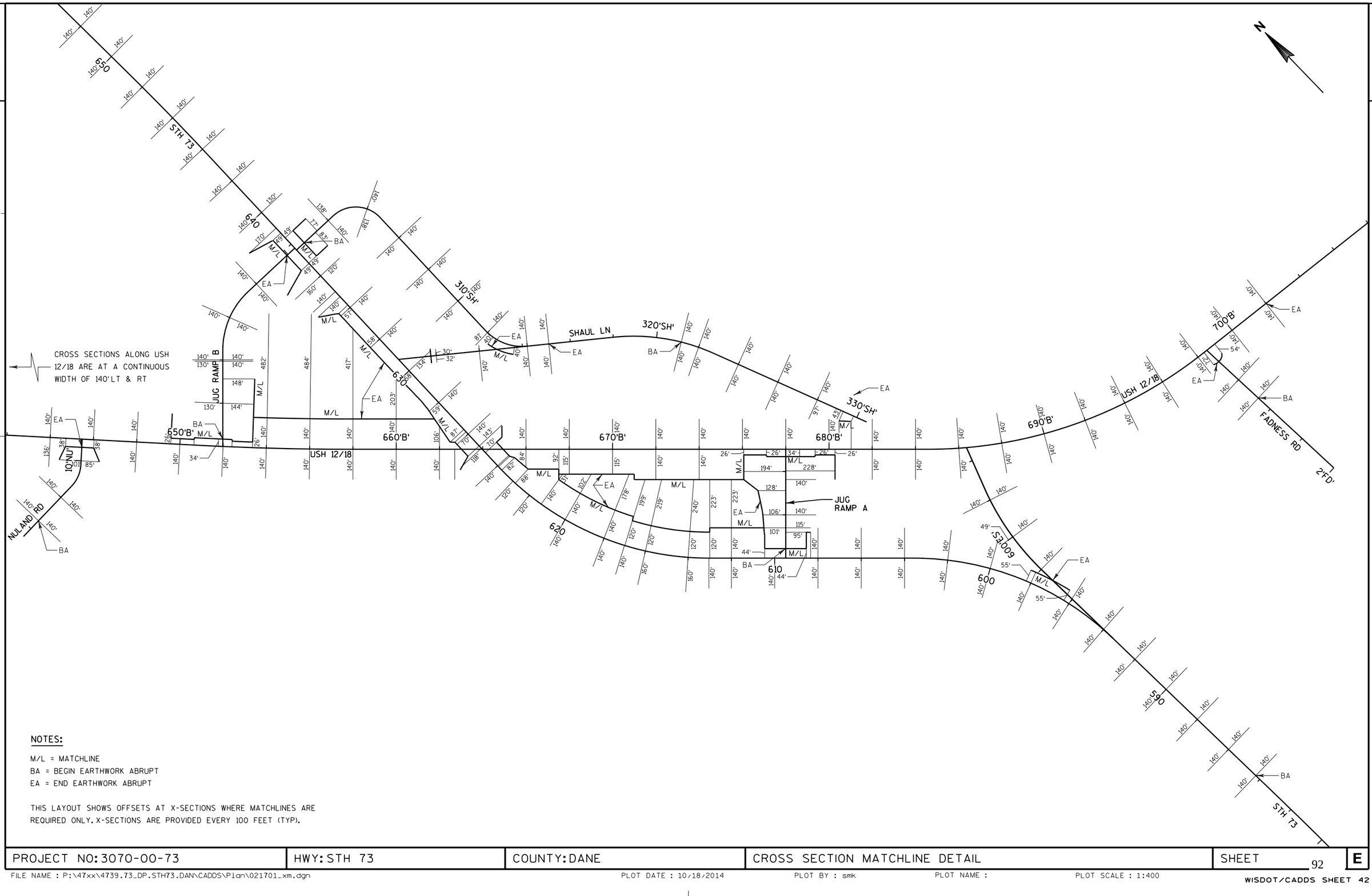
FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\021234_pd.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40



INFILTRATION BASIN PLAN DETAILS			
POINT	STATION	OFFSET	COMMENT
1	673+46'B'	173.54' RT	BASIN BOTTOM
2	674+00'B'	169.43' RT	BASIN BOTTOM
3	675+00'B'	164.23' RT	BASIN BOTTOM
4	676+00'B'	156.39' RT	BASIN BOTTOM
5	1003+00'JA'	123.79' LT	BASIN BOTTOM
6	1002+00'JA'	104.28' LT	BASIN BOTTOM
7	610+49.32	120.63' RT	BASIN BOTTOM
8	611+00	109.77' RT	BASIN BOTTOM
9	612+00	108.64' RT	BASIN BOTTOM
10	612+26.50	110.97' RT	BASIN BOTTOM
11	613+00	223.00' RT	BASIN BOTTOM
12	614+00	298.66' RT	BASIN BOTTOM

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN DETAIL - INFILTRATION BASIN	SHEET 91	E

2



NOTES:

M/L = MATCHLINE
BA = BEGIN EARTHWORK ABRUPT
EA = END EARTHWORK ABRUPT

THIS LAYOUT SHOWS OFFSETS AT X-SECTIONS WHERE MATCHLINES ARE REQUIRED ONLY. X-SECTIONS ARE PROVIDED EVERY 100 FEET (TYP).

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTION MATCHLINE DETAIL	SHEET 92	E

2

2

LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

N

DELINEATED WETLAND BOUNDARY

CULVERT B-13-802

0.509 ACRES OF WETLAND IMPACTS (W5)

R/W

576 578 580 582 584 586 588 590

STH 73

TLE

R/W

R/W

0.293 ACRES OF WETLAND IMPACTS (W6)

DELINEATED WETLAND BOUNDARY

MUD CREEK

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 93	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022001_ec.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

N

DRAINAGE DITCH

CULVERT C-13-105

R/W

TLE

F

0.509 ACRES OF WETLAND IMPACTS (W5)

0.082 ACRES OF WETLAND IMPACTS (W5)

DELINEATED WETLAND BOUNDARY

592

594

596

598

600

602

604

606

STH 73

R/W

TLE

0.293 ACRES OF WETLAND IMPACTS (W6)

8' X 12' MEDIUM RIPRAP

DELINEATED WETLAND BOUNDARY

EXISTING STH 73

R/W

USH 12/18

8.989

2

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 94	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022002_ec.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

2

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

DELINEATED WETLAND BOUNDARY

N

DELINEATED WETLAND BOUNDARY

2.333 ACRES OF WETLAND IMPACTS (W5)

21' X 25' HEAVY RIPRAP

R/W

602 604 606 608 610 612 STH 73 614 616

STH 73

5' X 36' MEDIUM RIPRAP

10' X 45' MEDIUM RIPRAP

5' X 50' MEDIUM RIPRAP

5' X 21' MEDIUM RIPRAP

10' X 62' MEDIUM RIPRAP

5' X 44' MEDIUM RIPRAP

10' X 52' MEDIUM RIPRAP

JUG RAMP A

100' LA

100' LA

10' X 47' MEDIUM RIPRAP

5' X 32' MEDIUM RIPRAP

5' X 50' MEDIUM RIPRAP

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 95	E

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

N

10' X 104' MEDIUM RIPRAP

DELINEATED WETLAND BOUNDARY

0.015 ACRES OF WETLAND IMPACTS (W5)

0.008 ACRES OF WETLAND IMPACTS (W5)

5' X 55' MEDIUM RIPRAP

B-13-801

STH 73

USH 12/18

SHAUL LN

R/W

614 616 618 620 622 624 626 628

.6239 .6478 .6708 .6938 .7168 .7399 .7629 .7859 .8089 .8319 .8549 .8779

312'SH

PROJECT NO: 3070-00-73 | HWY: STH 73 | COUNTY: DANE | EROSION CONTROL | SHEET 96 | E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022004_ec.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

2

2

N

659.8

200.6'JB'

R/W

JUG RAMP B

208.8'JB'

DELINEATED WETLAND BOUNDARY

0.070 ACRES OF WETLAND IMPACTS (W10)

R/W

210.1'JB'

10' X 15' MEDIUM RIPRAP

STH 73

630

632

636

638

640

642

644

A D

STH 73 A D

R/W

302'SH'

SHAUL LN

R/W

5' X 20' MEDIUM RIPRAP

24' X 34' HEAVY RIPRAP

5' X 55' MEDIUM RIPRAP

10' X 15' MEDIUM RIPRAP

F F

R/W

0.031 ACRES OF WETLAND IMPACTS (W10)

DELINEATED WETLAND BOUNDARY

10' X 15' MEDIUM RIPRAP

304'SH'

306'SH'

308'SH'

310'SH'

312'SH'

8' X 12' MEDIUM RIPRAP

R/W

TILE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 97	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022005_ec.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

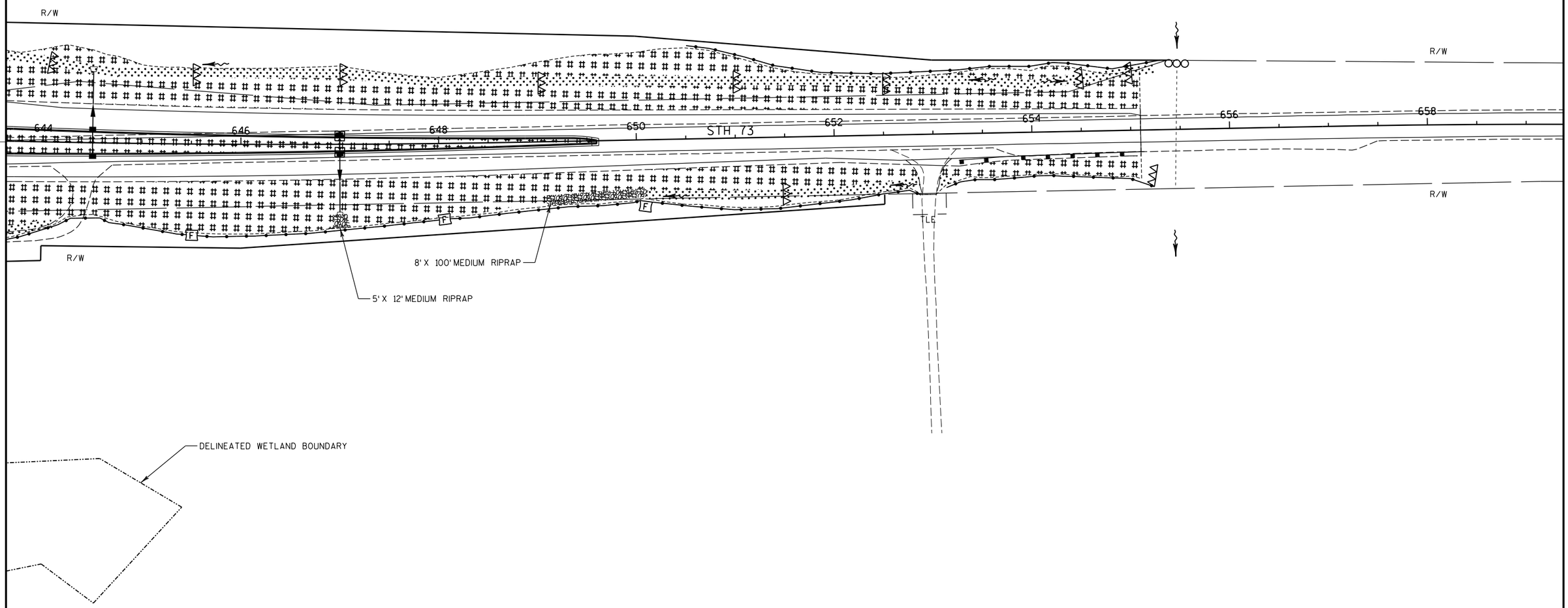
2

2

LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

N



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 98	E

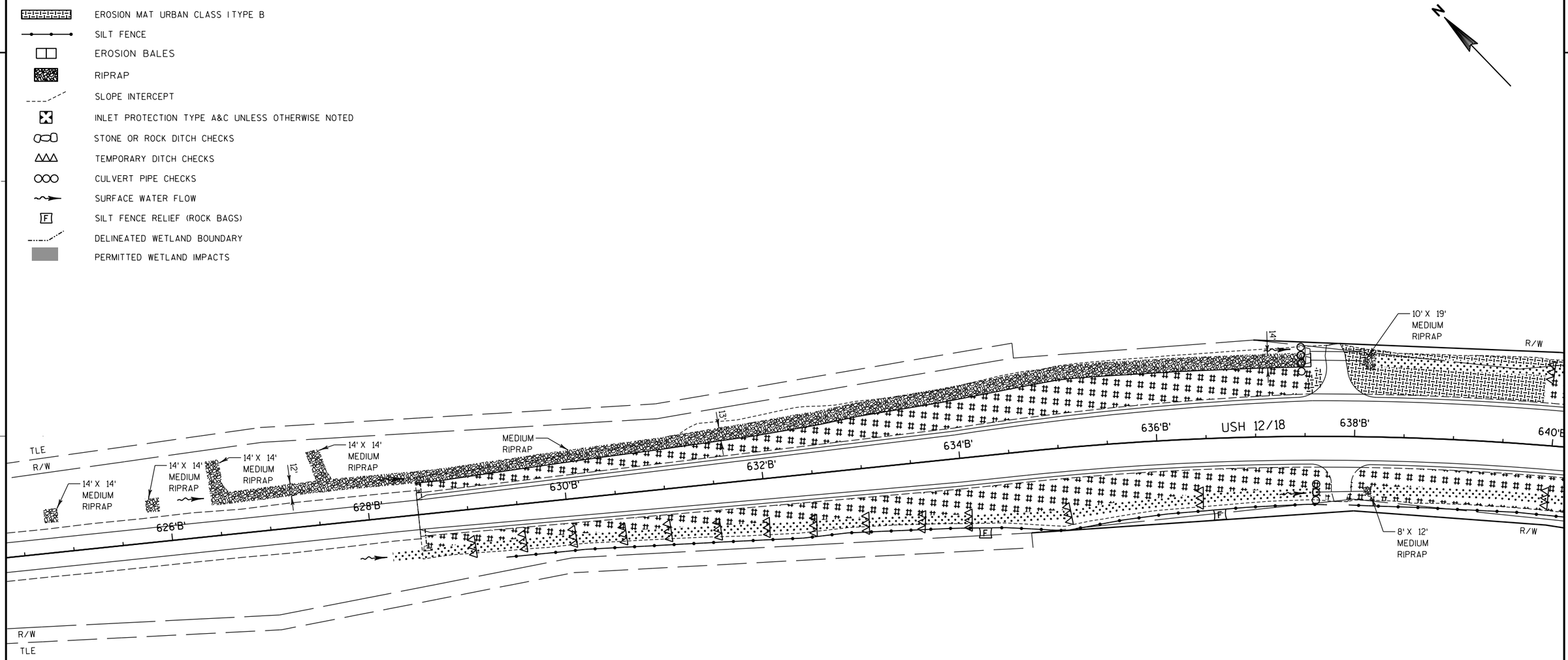
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WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 99	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022007_ec.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

N

R/W

20' X 29' MEDIUM RIPRAP

640'B' 642'B' 644'B' 646'B' 648'B' 650'B' 652'B' 654'B'

USH 12/18

JUG RAMP B

2004'JB'

2002'JB'

10"D

8"NU

6"NU

NULAND RD

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 100	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022008_ec.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

SHAUL LN

316'SH'

314'SH'

312'SH'

R/W

STH 73

628

630

626

624

622

620

10' X 55' MEDIUM RIPRAP

656'B'

658'B'

660'B'

662'B'

664'B'

666'B'

668'B'

USH 12/18

5' X 18' MEDIUM RIPRAP

B-13-801

N

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 101	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022009_ec.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

318'SH' 320'SH' 322'SH' 324'SH' 326'SH' 328'SH' 330'SH'

SHAUL LN

R/W

TLE

670'B' 672'B' 674'B' 676'B' USH 12/18 678'B' 680'B' 682'B' 684'B'

5' X 96' MEDIUM RIPRAP

8' X 285' MEDIUM RIPRAP

1004'JA'

1002'JA'

JUG RAMP A

10' X 47' MEDIUM RIPRAP

10' X 47' MEDIUM RIPRAP

10' X 15' HEAVY RIPRAP

5' x 43' MEDIUM RIPRAP

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 102	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022010_ec.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

2

LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

N

TLE
R/W
684'B'
686'B'
688'B'
690'B'
692'B'
694'B'
696'B'
698'B'
700
8' X 12' MEDIUM RIPRAP
5' X 10' MEDIUM RIPRAP
5' X 16' MEDIUM RIPRAP
5' X 10' MEDIUM RIPRAP
USH 12/18
EXISTING STH 73
CULVERT B-13-358
0.257 ACRES OF WETLAND IMPACTS (W6)
0.095 ACRES OF TEMPORARY WETLAND IMPACTS (W6)
0.334 ACRES OF WETLAND IMPACTS (W6)
DELINEATED WETLAND BOUNDARY
FADNESS RD
6FED
F

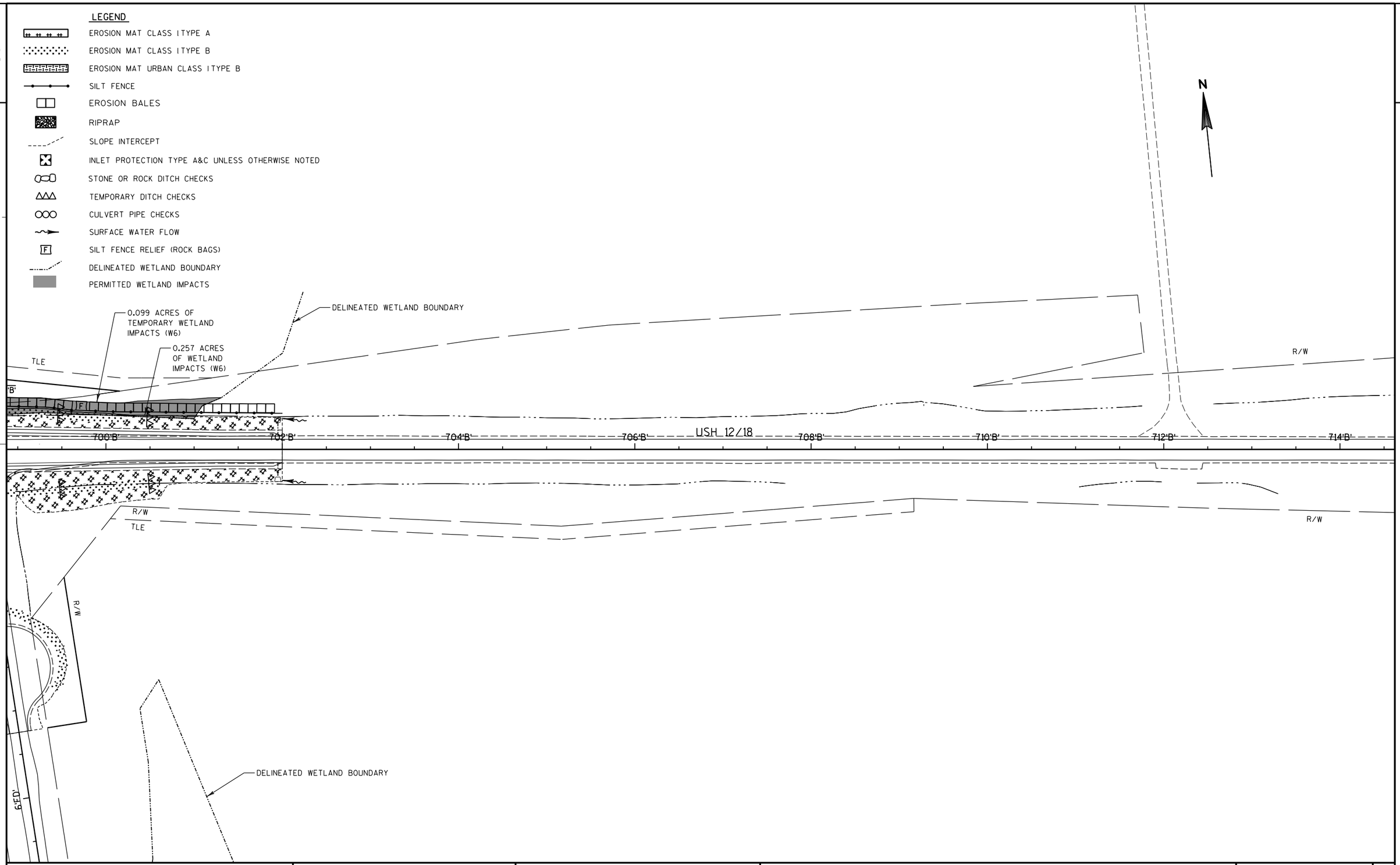
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 103	E

2

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL	SHEET 104	E

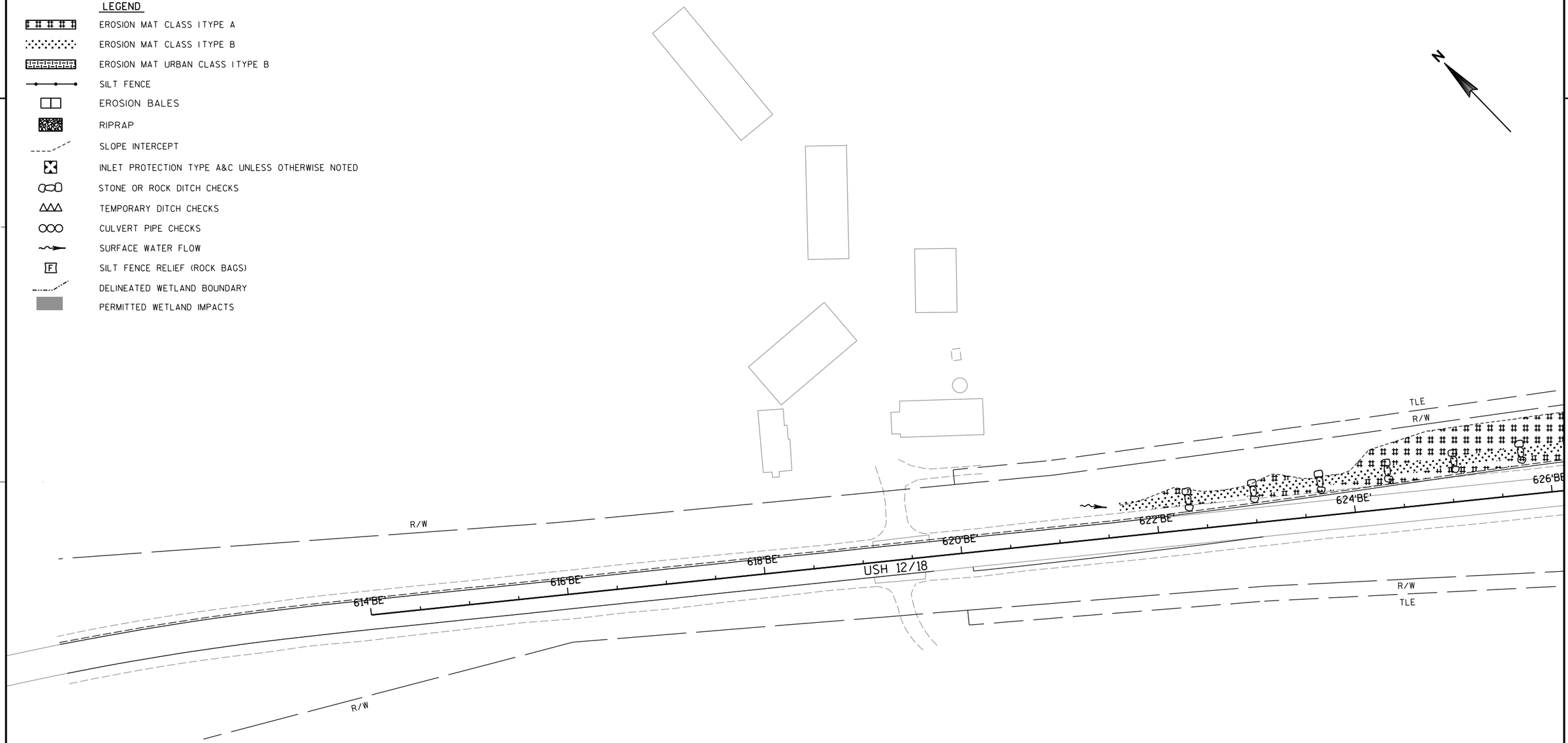
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WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- F SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS



2

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL - STAGE 2	SHEET 105	E

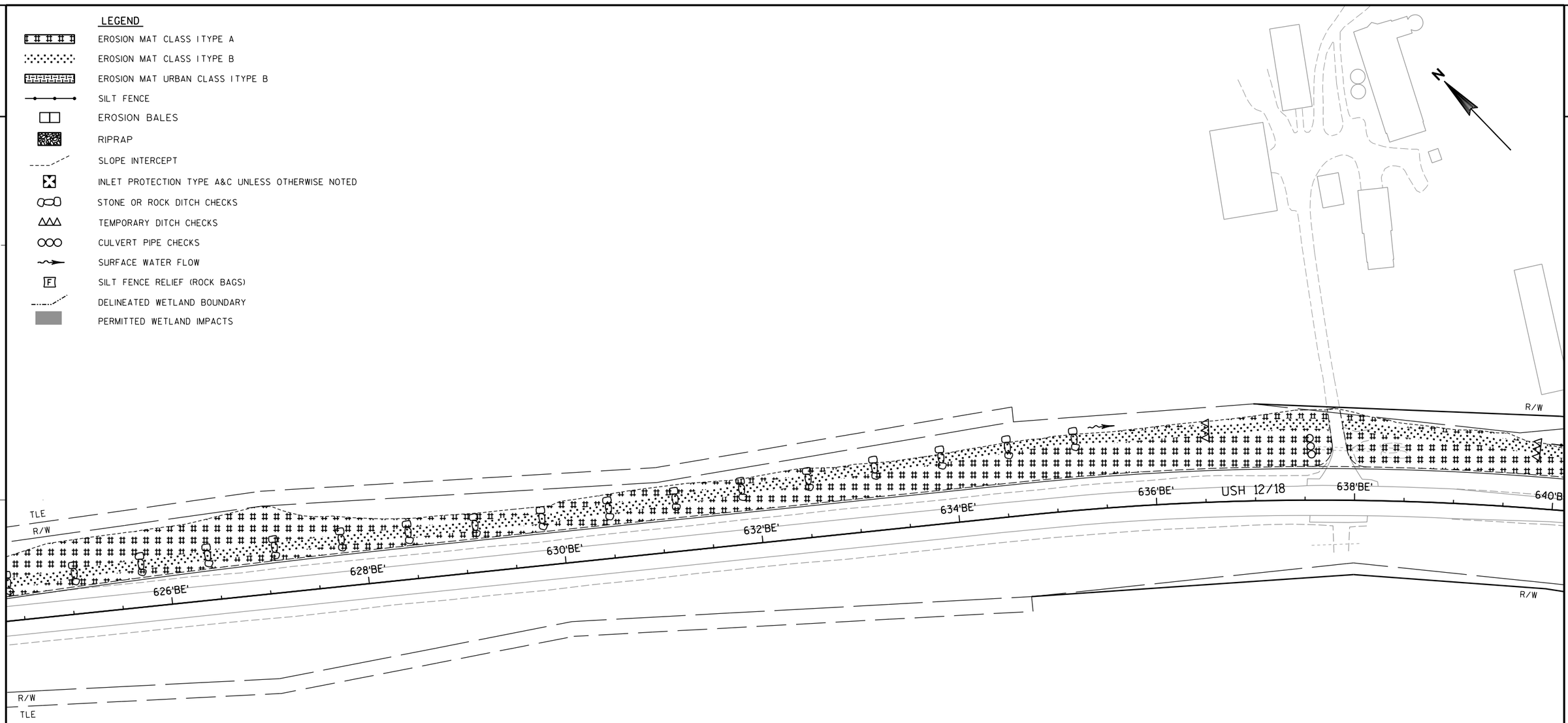
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WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS



2

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL - STAGE 2	SHEET 106	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022014_ec_S2.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

N

R/W

R/W

R/W

R/W

640'BE' 642'BE' 644'BE' 646'BE' 648'BE' 650'BE' 652'BE' 654'BE'

USH 12/18

R/W

NULAND RD

R/W

R/W

R/W

R/W

2

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL - STAGE 2	SHEET 107	E

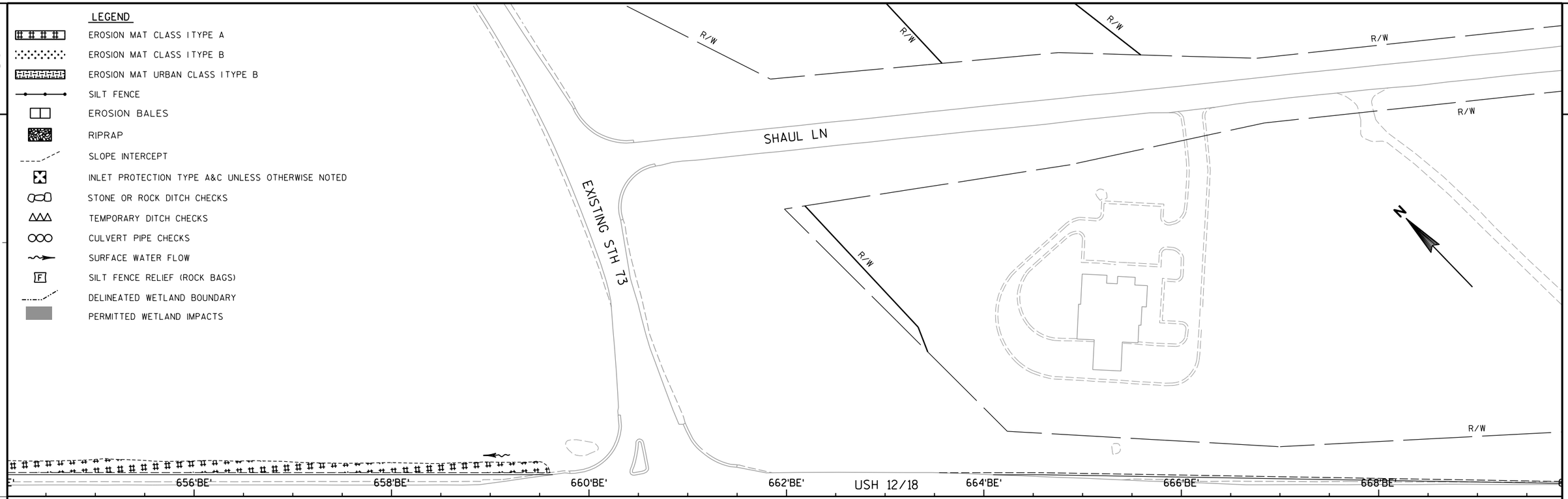
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WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL - STAGE 2	SHEET 108	E

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WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

N

TLE
R/W
684'BE'
686'BE'
688'BE'
690'BE'
692'BE'
694'BE'
696'BE'
698'BE'
DELINEATED WETLAND BOUNDARY
CULVERT B-13-358
USH 12/18
EXISTING STH 73
MUD CREEK
FADNESS RD
8'ED.
6'ED.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL - STAGE 2	SHEET 109	E

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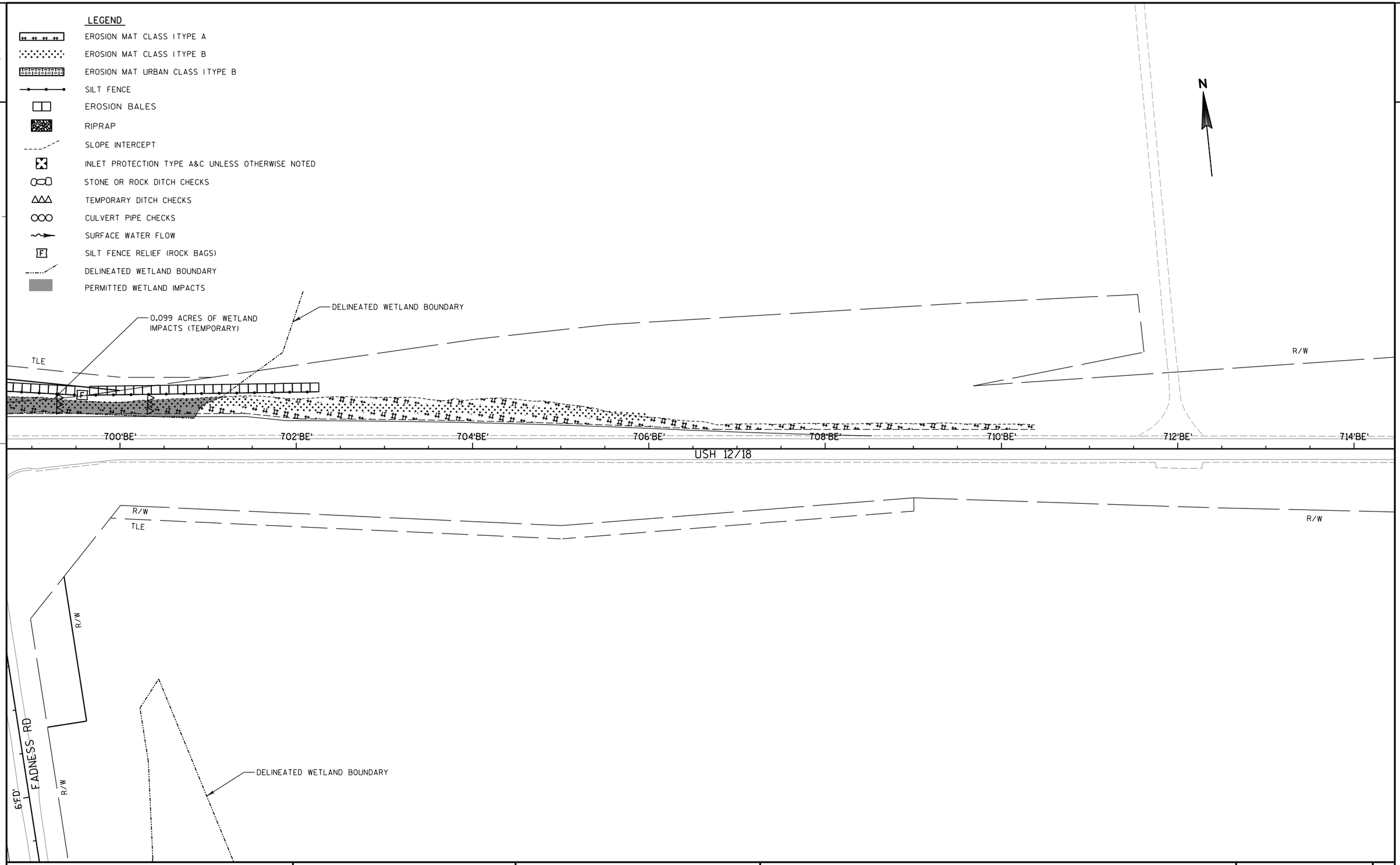
WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

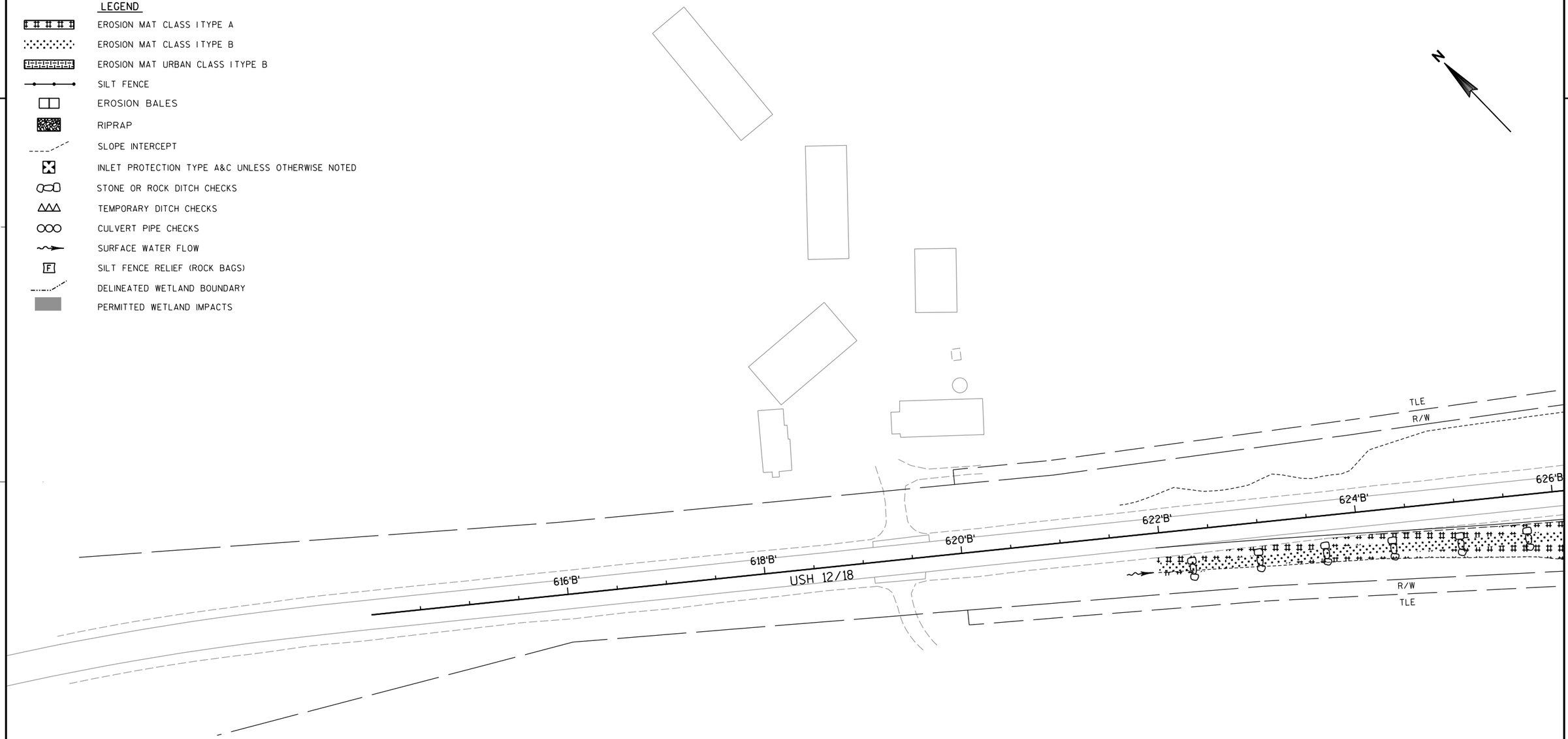


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL - STAGE 2	SHEET 110	E

2

LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS



2

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL - STAGE 3	SHEET 111	E

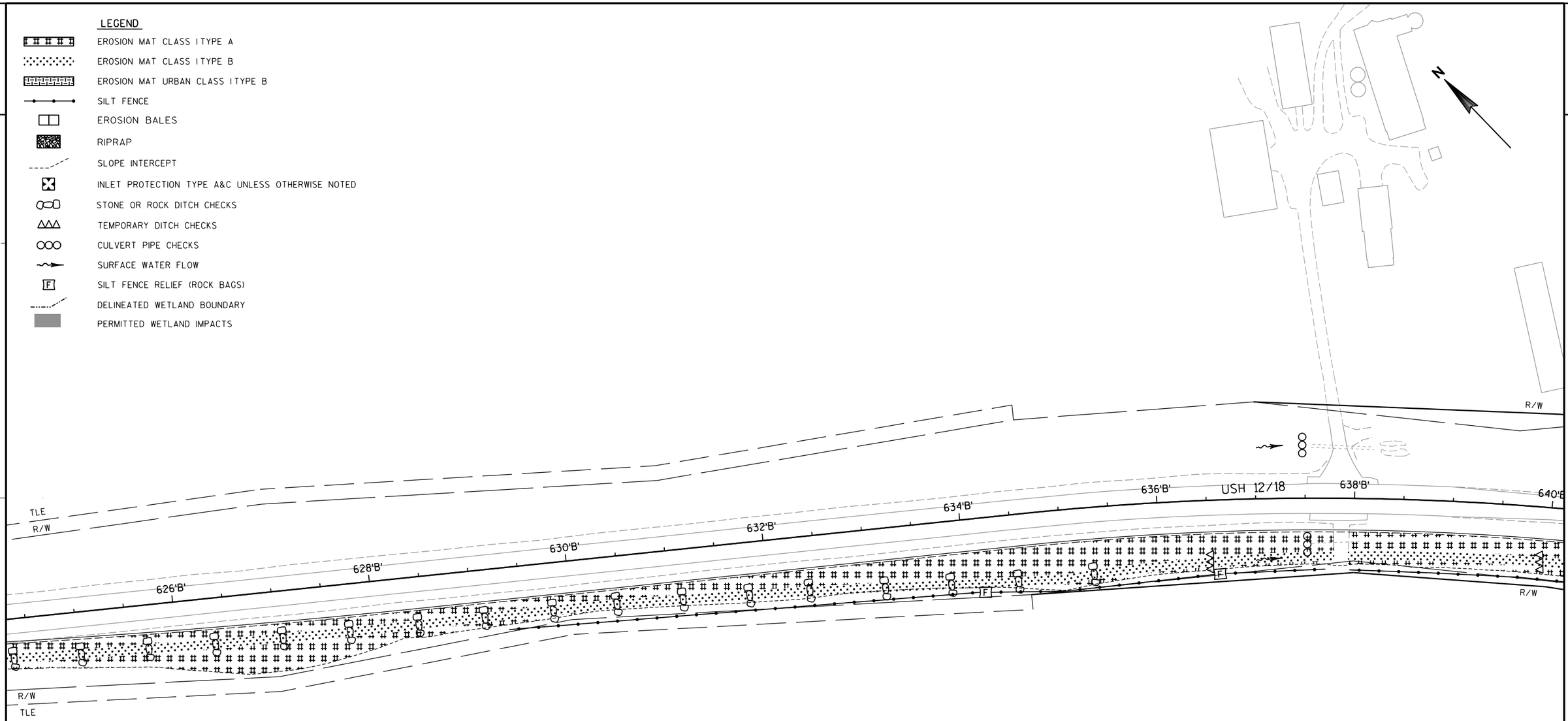
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WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL - STAGE 3	SHEET 112	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022020_ec_S3.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EROSION MAT CLASS ITYPE A
- EROSION MAT CLASS ITYPE B
- EROSION MAT URBAN CLASS ITYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

N

R/W

JUG RAMP B

2004'JB'

2002'JB'

640'B'

642'B'

644'B'

646'B'

648'B'

650'B'

USH 12/18

652'B'

654'B'

SEE PERMANENT EC PLANS FOR DETAILS

10"NU

8"NU

6"NU

NULAND RD

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL - STAGE 3	SHEET 113	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022021_ec_S3.dgn PLOT DATE : 10/29/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

2

LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

N

TLE
R/W
684'B'
686'B'
688'B'
690'B'
692'B'
694'B'
696'B'
698'B'
700
USH 12/18
CULVERT
B-13-358
SEE PERMANENT EC
PLANS FOR DETAILS
MUD CREEK
DELINEATED WETLAND BOUNDARY
FADNESS RD
6FD

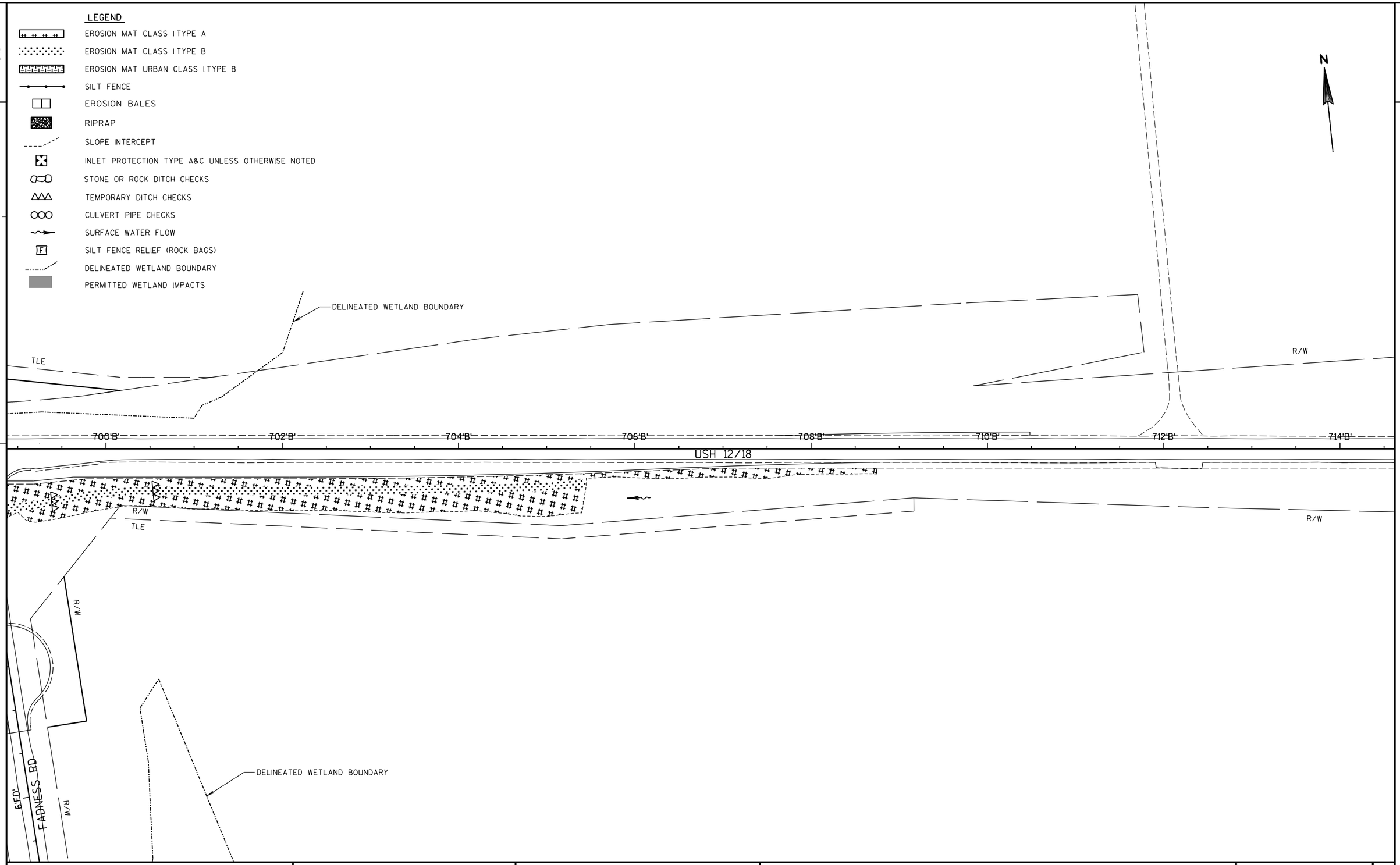
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2

LEGEND

- EROSION MAT CLASS I TYPE A
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- SILT FENCE
- EROSION BALES
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A&C UNLESS OTHERWISE NOTED
- STONE OR ROCK DITCH CHECKS
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)
- DELINEATED WETLAND BOUNDARY
- PERMITTED WETLAND IMPACTS

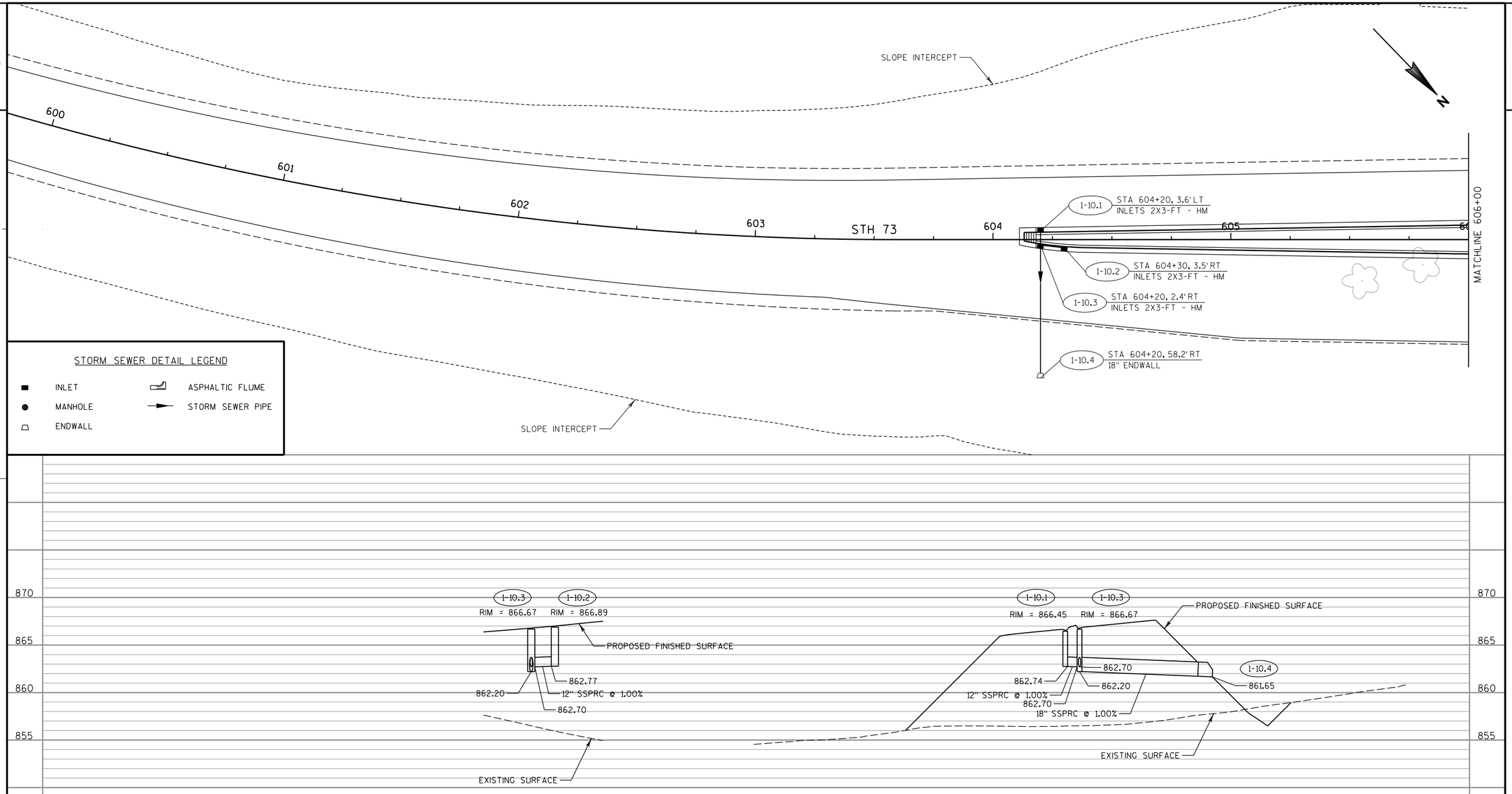


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	EROSION CONTROL - STAGE 3	SHEET 115	E

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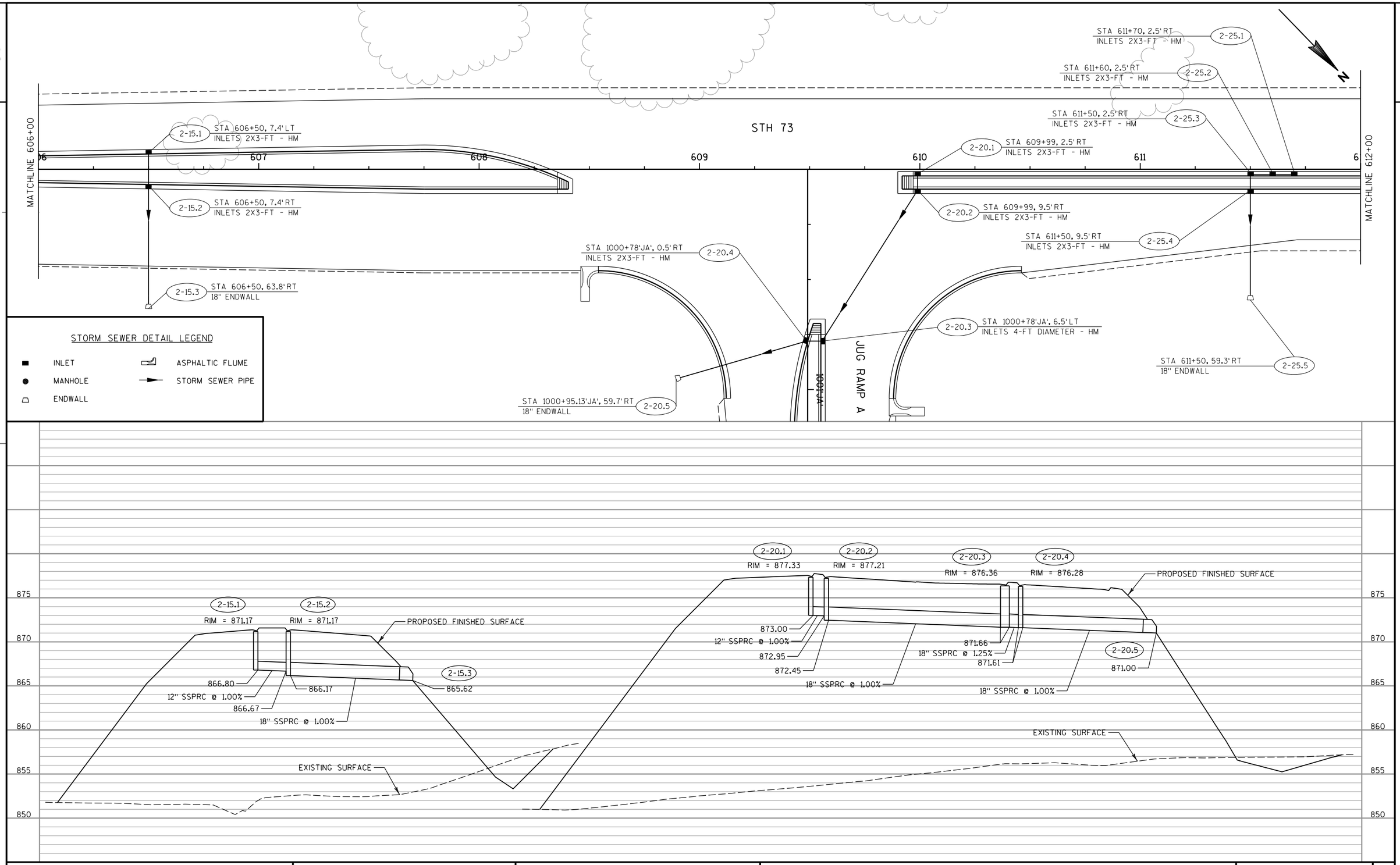
WISDOT/CADDS SHEET 42

2

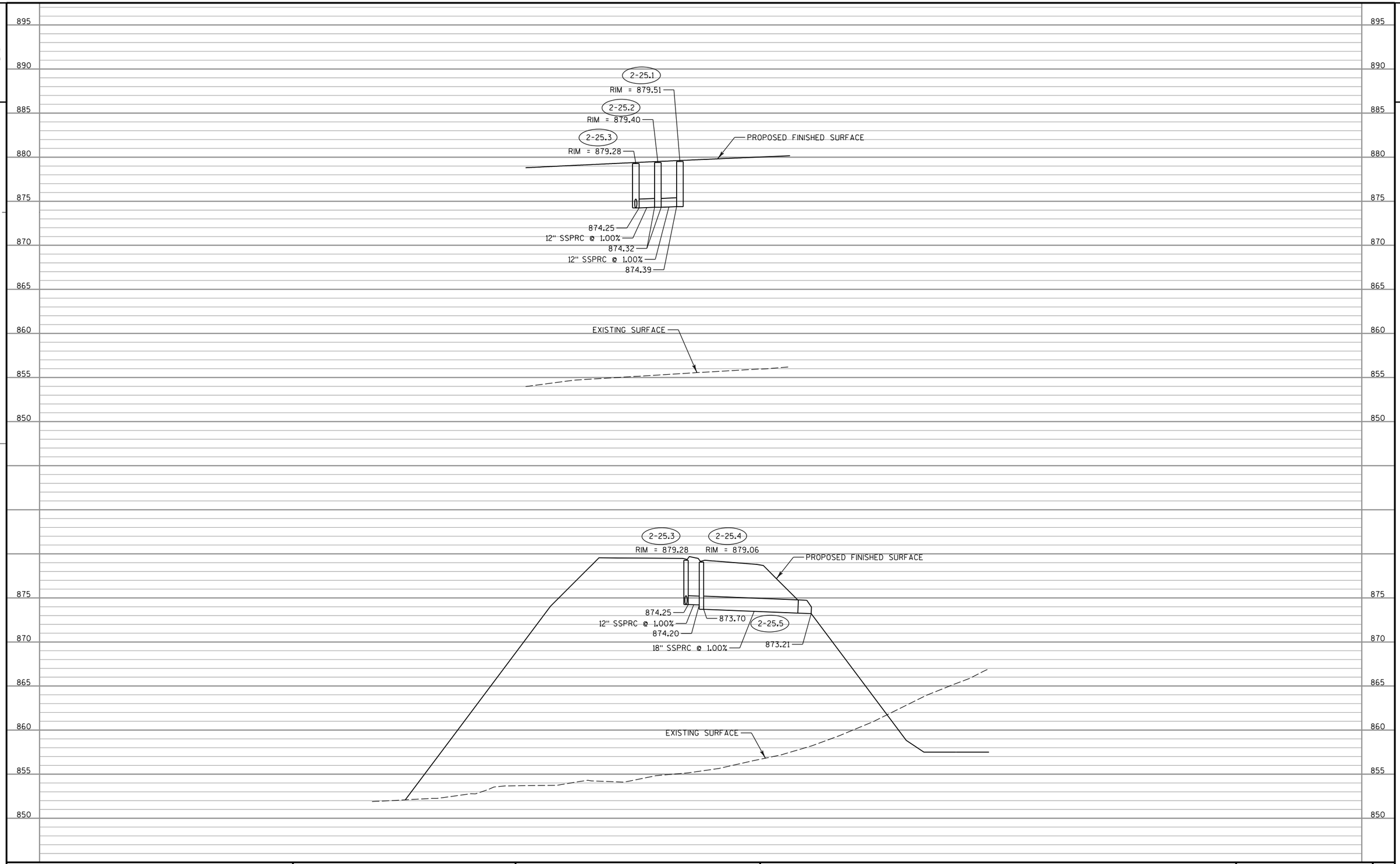


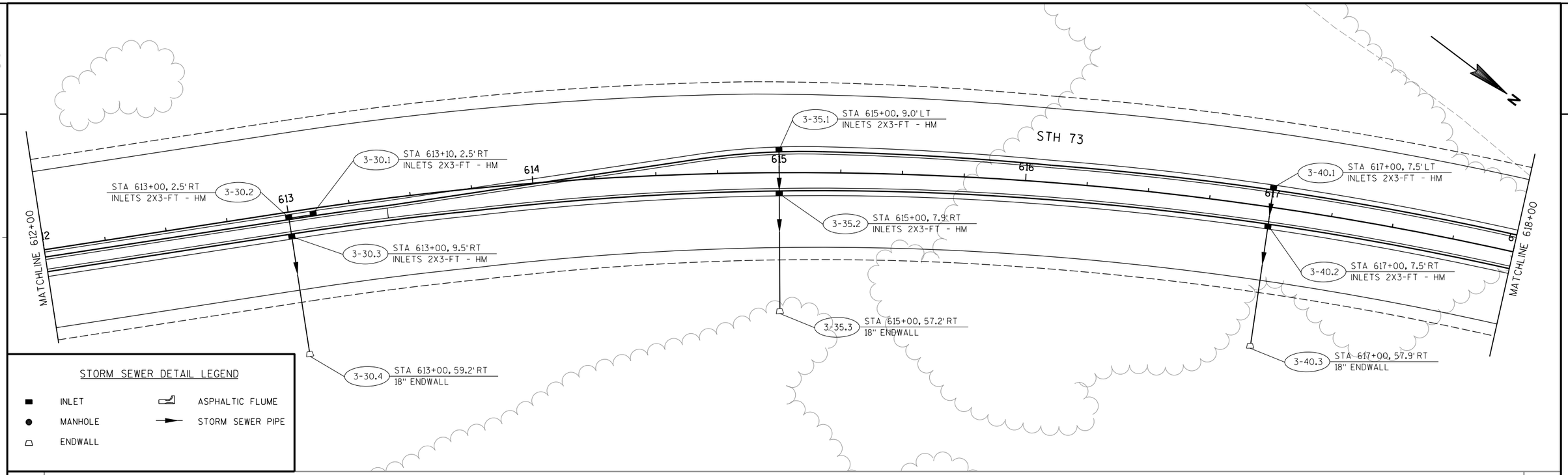
870
865
860
855

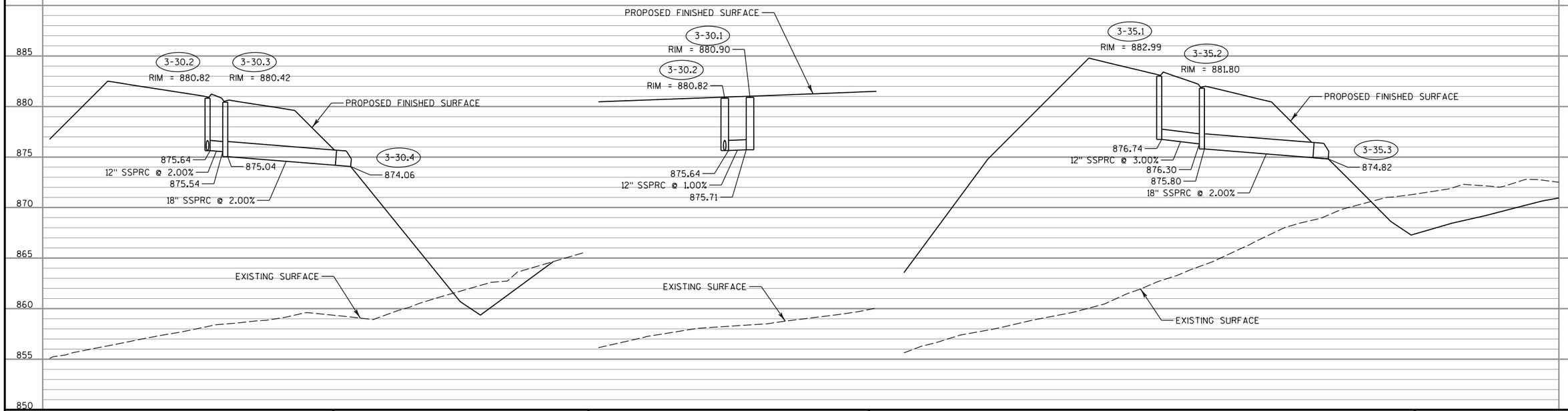
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - STH 73	SHEET 116	E



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - STH 73	SHEET 117	E

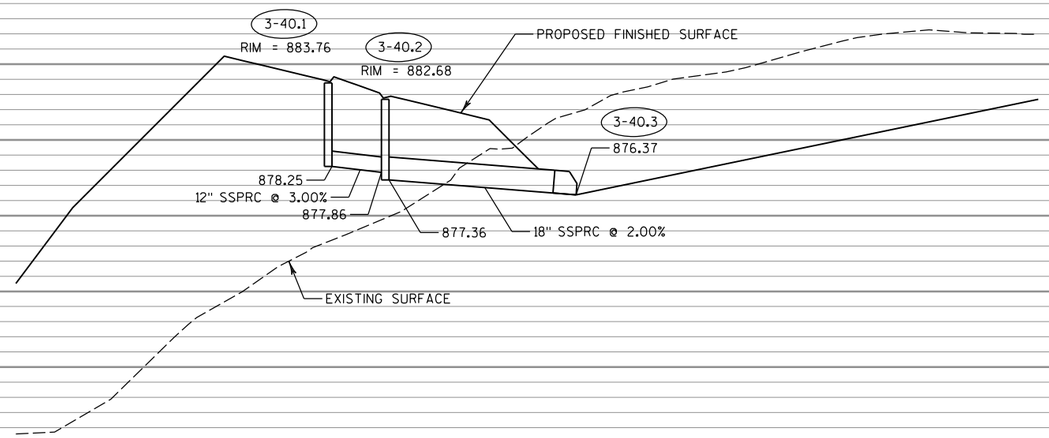

895
890
885
880
875
870
865
860
855
850
2-25.1
RIM = 879.51
2-25.2
RIM = 879.40
2-25.3
RIM = 879.28
PROPOSED FINISHED SURFACE
874.25
12" SSPRC @ 1.00%
874.32
12" SSPRC @ 1.00%
874.39
EXISTING SURFACE
2-25.3
RIM = 879.28
2-25.4
RIM = 879.06
PROPOSED FINISHED SURFACE
874.25
12" SSPRC @ 1.00%
874.20
18" SSPRC @ 1.00%
873.70
2-25.5
873.21
EXISTING SURFACE





PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - STH 73	SHEET 119 E

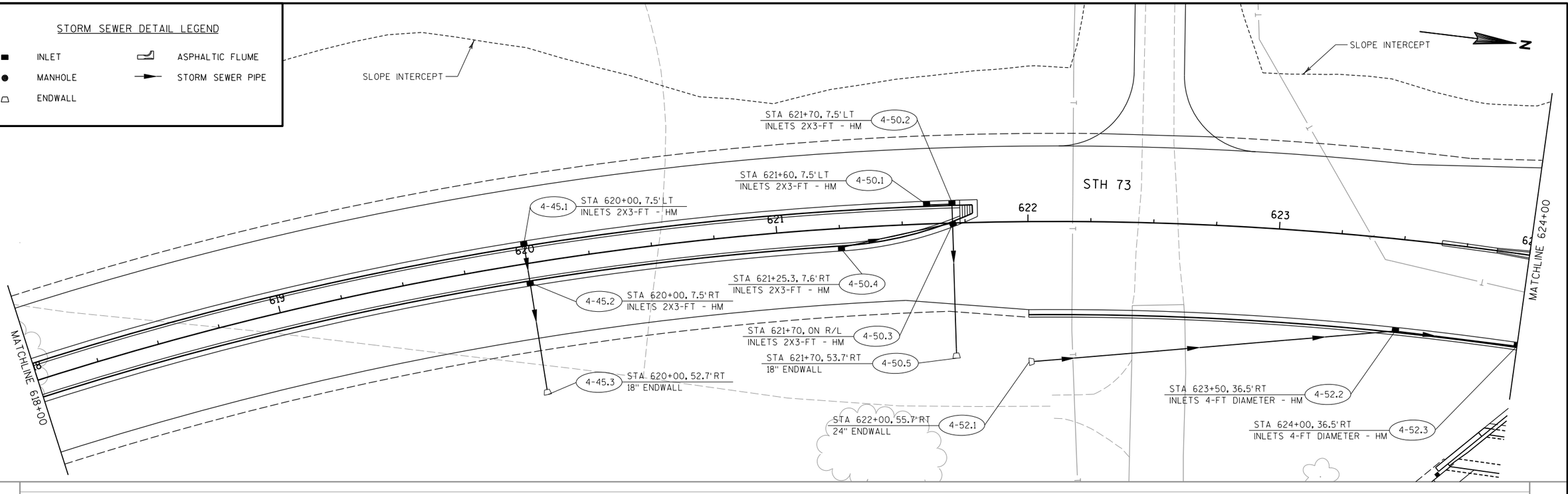
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - STH 73	SHEET 120	E

STORM SEWER DETAIL LEGEND

- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - STH 73	SHEET 121	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022504_ss.dgn PLOT DATE : 10/18/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 41

2

SLOPE INTERCEPT

B-13-801

5-54.1 STA 624+00, 53'LT
18" ENDWALL

5-54.4 STA 625+42, 36.5'LT
INLETS 4-FT DIAMETER - HM

5-54.5
STA 628+17, 56.7'LT
18" ENDWALL

5-54.2 STA 625+33.70, 5.5'LT
INLETS 2X2.5-FT - BW

5-54.3 STA 625+39.40, 5.5'LT
INLETS 2X2.5-FT - BW

MATCHLINE 624+00

MATCHLINE 630+00

STH 73

USH 12/18

624 625 626 627 628 629

665.78

665.98

665.99

5-52.5 STA 625+50, 36.5'RT
INLETS 4-FT DIAMETER - HM

5-52.4 STA 624+50, 36.5'RT
INLETS 4-FT DIAMETER - HM

5-52.6 STA 626+00, 54.6'RT
24" ENDWALL

N

STORM SEWER DETAIL LEGEND

- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE

EXISTING SURFACE

PROPOSED FINISHED SURFACE

890 885 880 875 870

4-52.1
876.60

24" SSPRC @ 0.58%

4-52.2
RIM = 879.51
875.77
875.67
24" SSPRC @ 0.31%

4-52.3
RIM = 879.39
875.53
875.43
24" SSPRC @ 0.30%

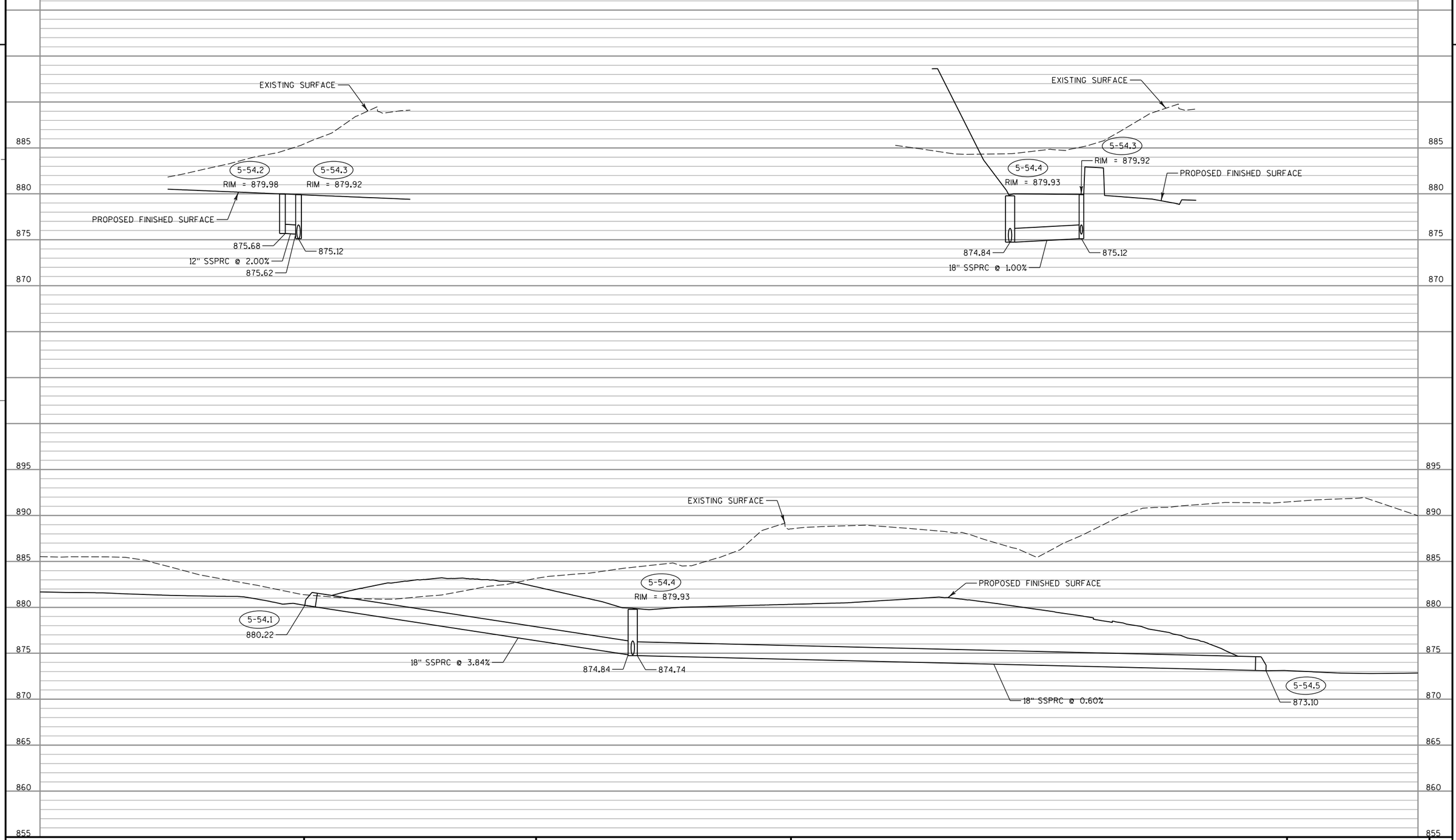
5-52.4
RIM = 879.30
875.29
875.19
24" SSPRC @ 0.30%

5-52.5
RIM = 878.66
874.90
874.80
24" SSPRC @ 0.31%

5-52.6
874.64

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - STH 73	SHEET 122 E

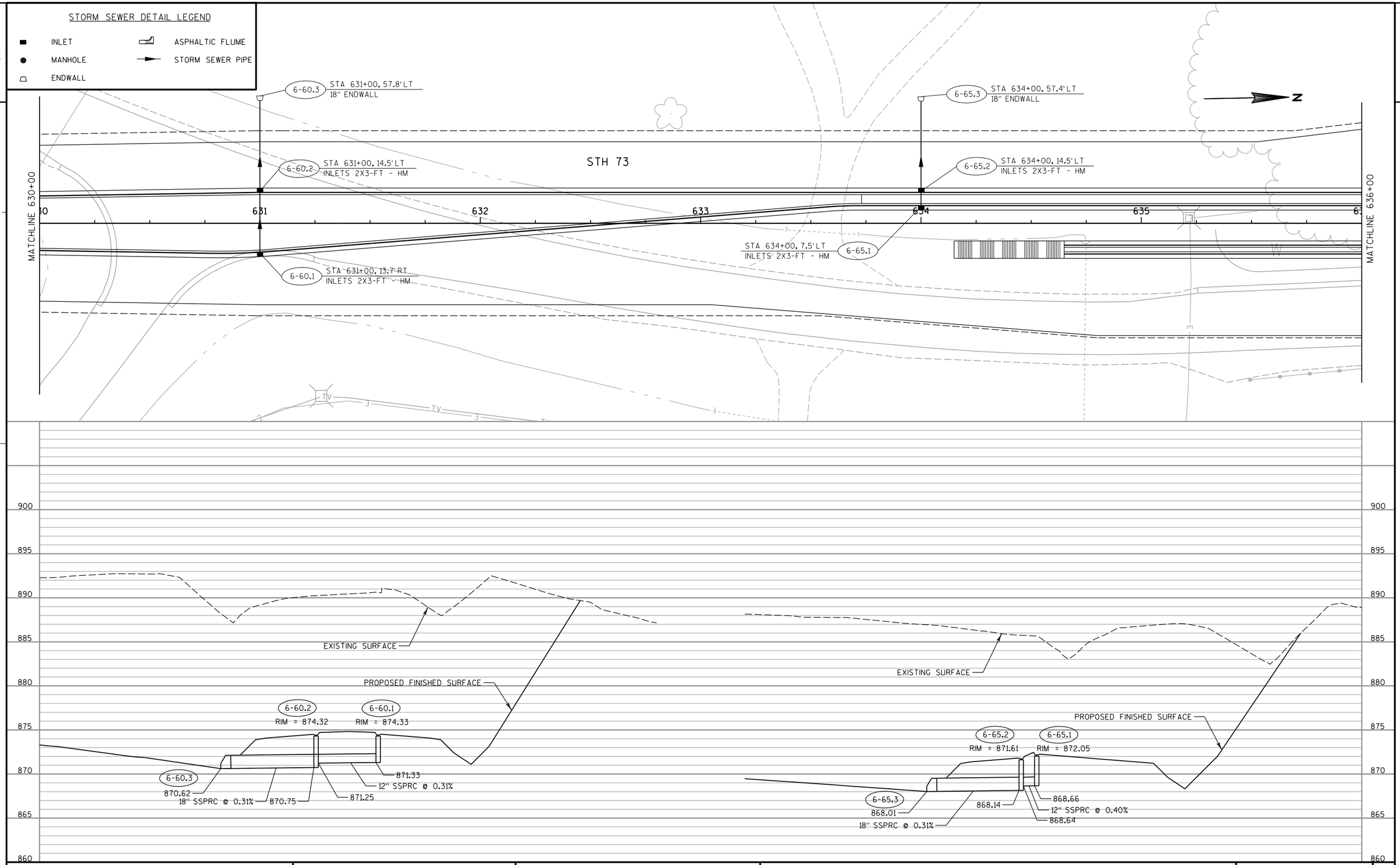
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - STH 73	SHEET 123 E

STORM SEWER DETAIL LEGEND

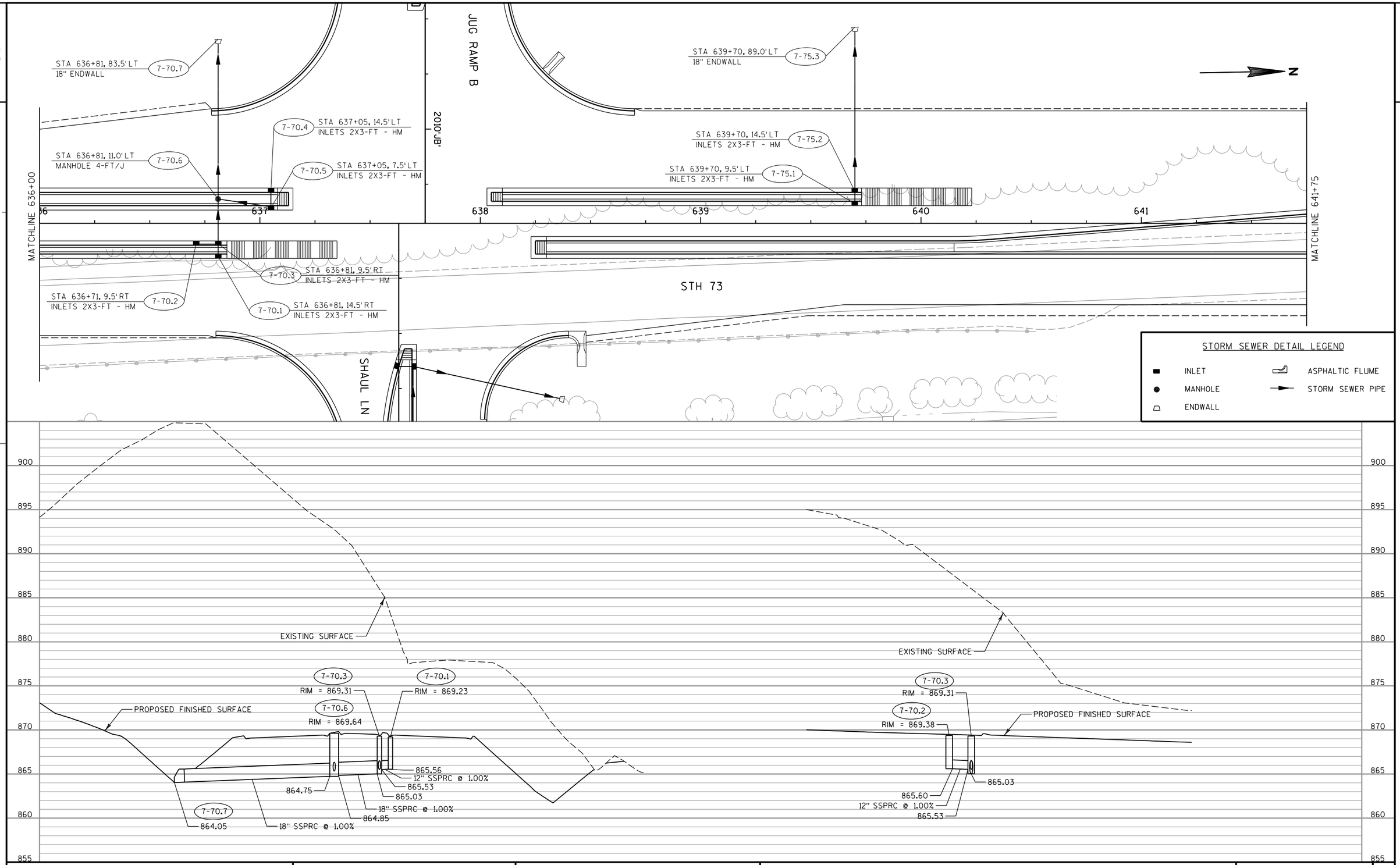
- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE



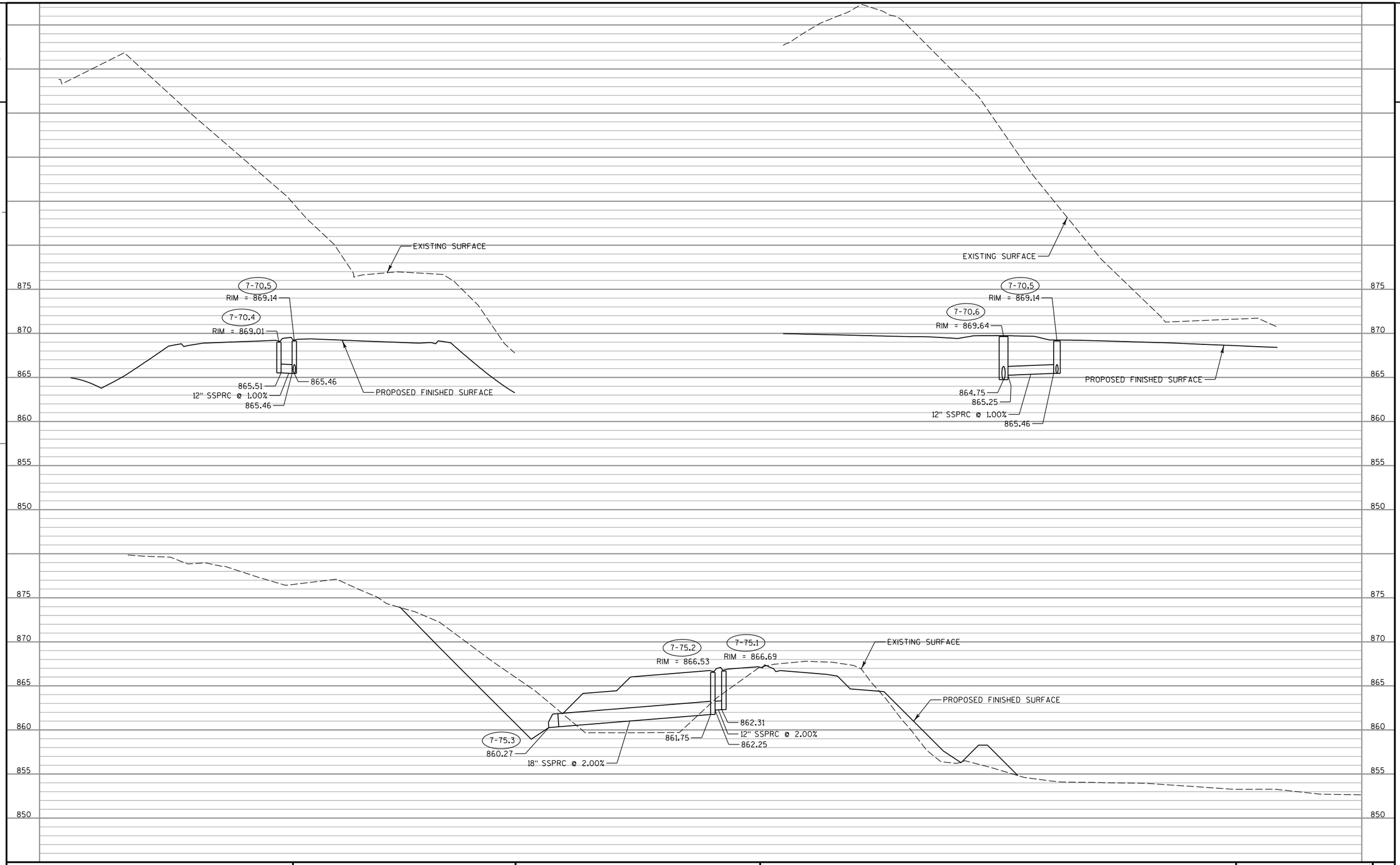
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - STH 73	SHEET 124 E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022506_ss.dgn PLOT DATE : 10/18/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40

2

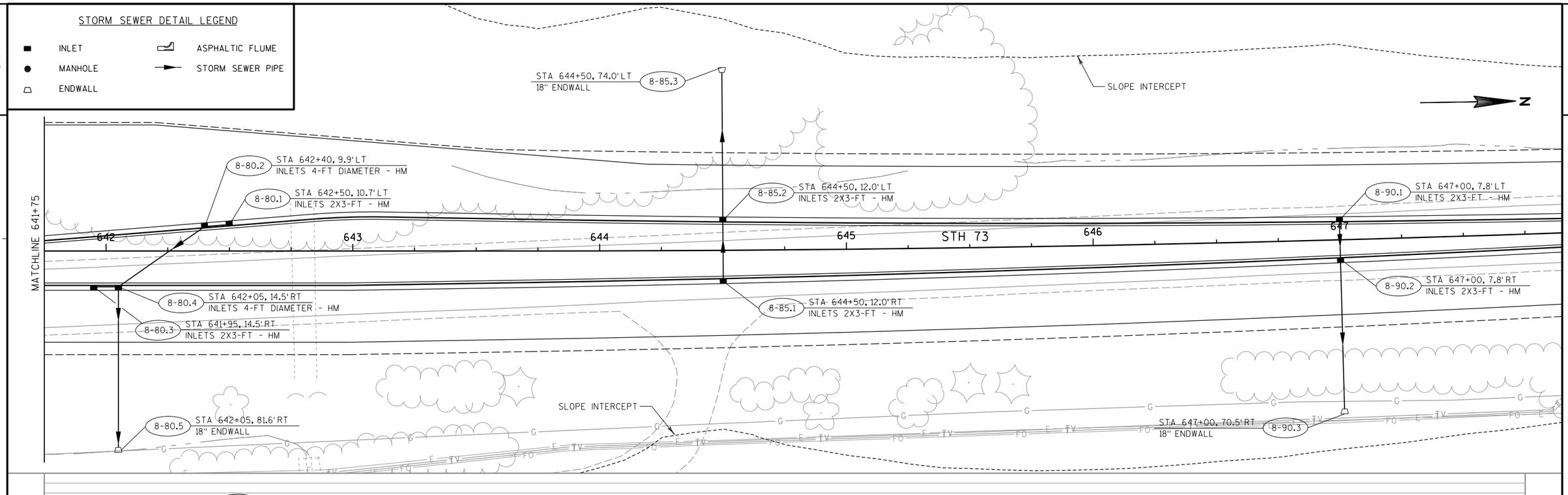


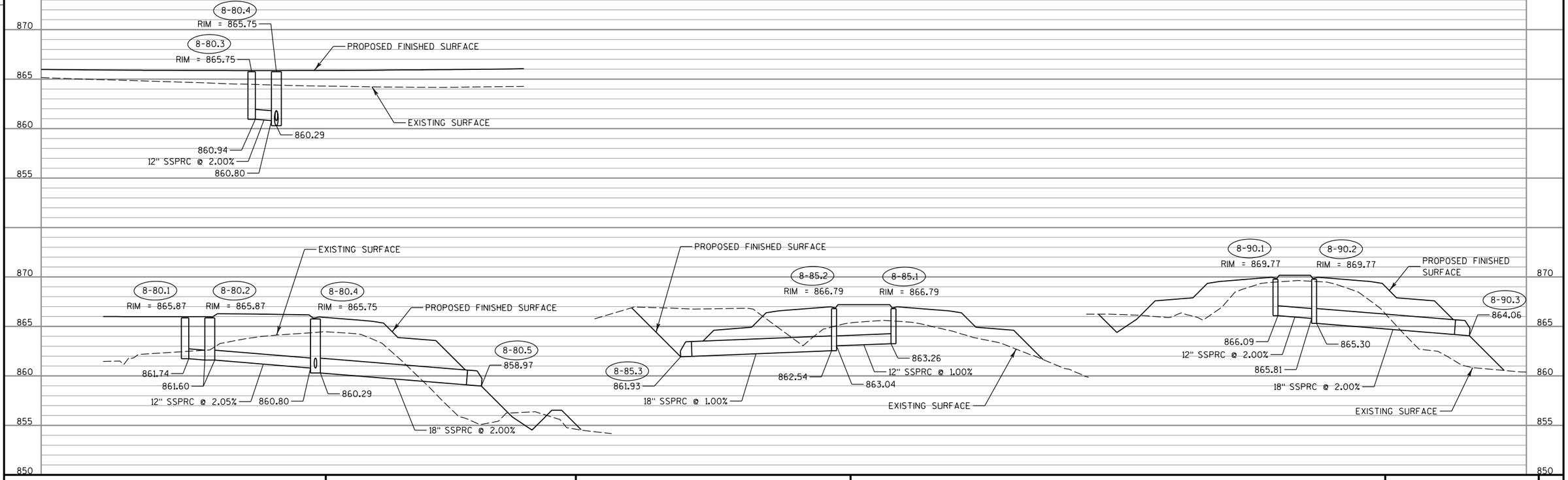
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - STH 73	SHEET 125 E


EXISTING SURFACE
7-70.5
RIM = 869.14
7-70.4
RIM = 869.01
865.51
12" SSPRC @ 1.00%
865.46
865.46
PROPOSED FINISHED SURFACE
EXISTING SURFACE
7-70.5
RIM = 869.14
7-70.6
RIM = 869.64
864.75
865.25
12" SSPRC @ 1.00%
865.46
PROPOSED FINISHED SURFACE
7-75.2
RIM = 866.53
7-75.1
RIM = 866.69
EXISTING SURFACE
PROPOSED FINISHED SURFACE
862.31
12" SSPRC @ 2.00%
862.25
861.75
7-75.3
860.27
18" SSPRC @ 2.00%
875
870
865
860
855
850

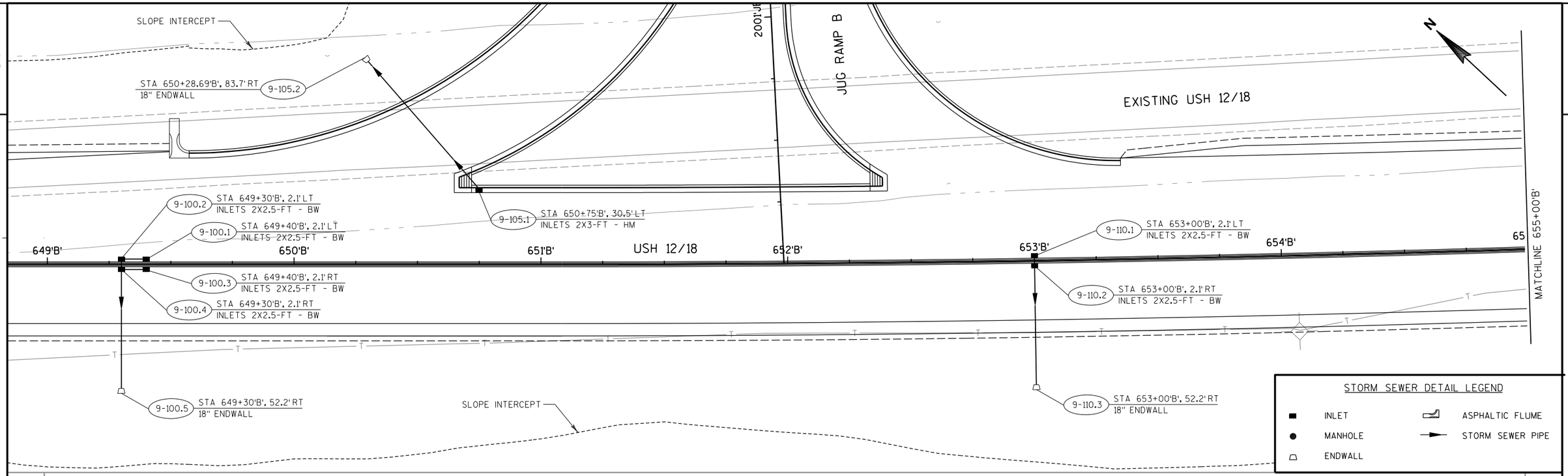
STORM SEWER DETAIL LEGEND

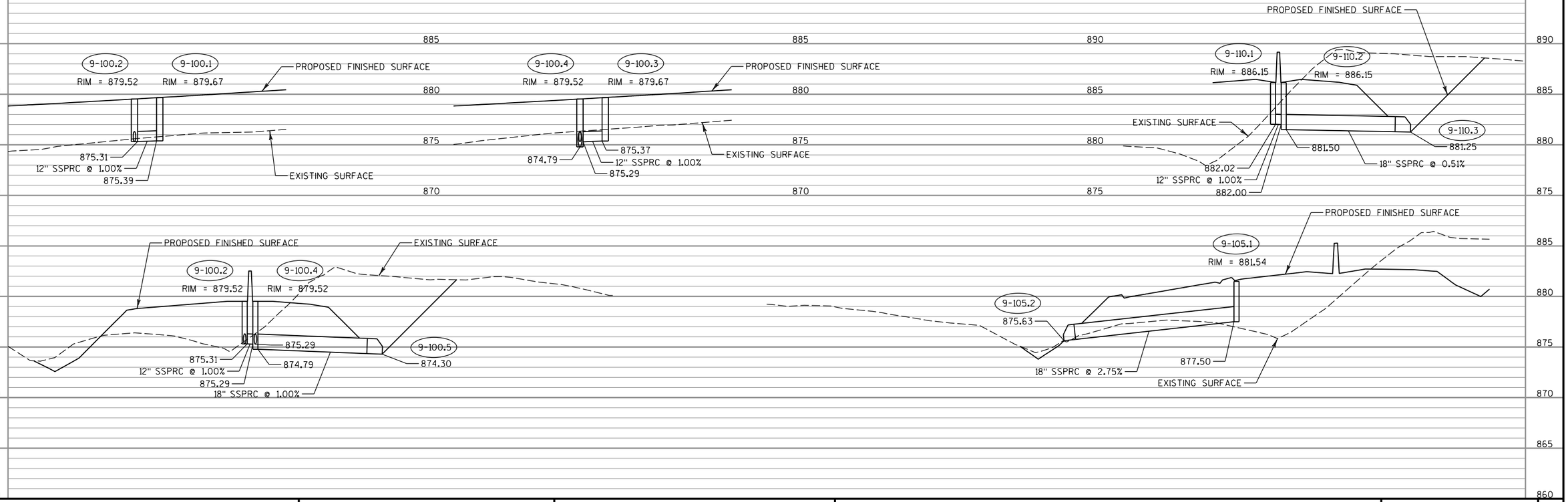
- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE





PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - STH 73	SHEET 127 E





PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - USH 12/18	SHEET 128 E

2

EXISTING USH 12/18

N

MATCHLINE 655+00'B'

MATCHLINE 661+00'B'

USH 12/18

5'B' 656'B' 657'B' 658'B' 659'B' 660'B' 66

10-115.1 STA 657+00'B', 2.1' LT
INLETS 2X2.5-FT - BW

10-115.2 STA 657+00'B', 2.1' RT
INLETS 2X2.5-FT - BW

10-115.3 STA 657+00'B', 54.9' RT
18" ENDWALL

SLOPE INTERCEPT

STORM SEWER DETAIL LEGEND

- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE

905
900
895
890
885
880
875
870

10-115.1
RIM = 893.83

10-115.2
RIM = 893.83

PROPOSED FINISHED SURFACE

10-115.3
887.60

888.64

889.18

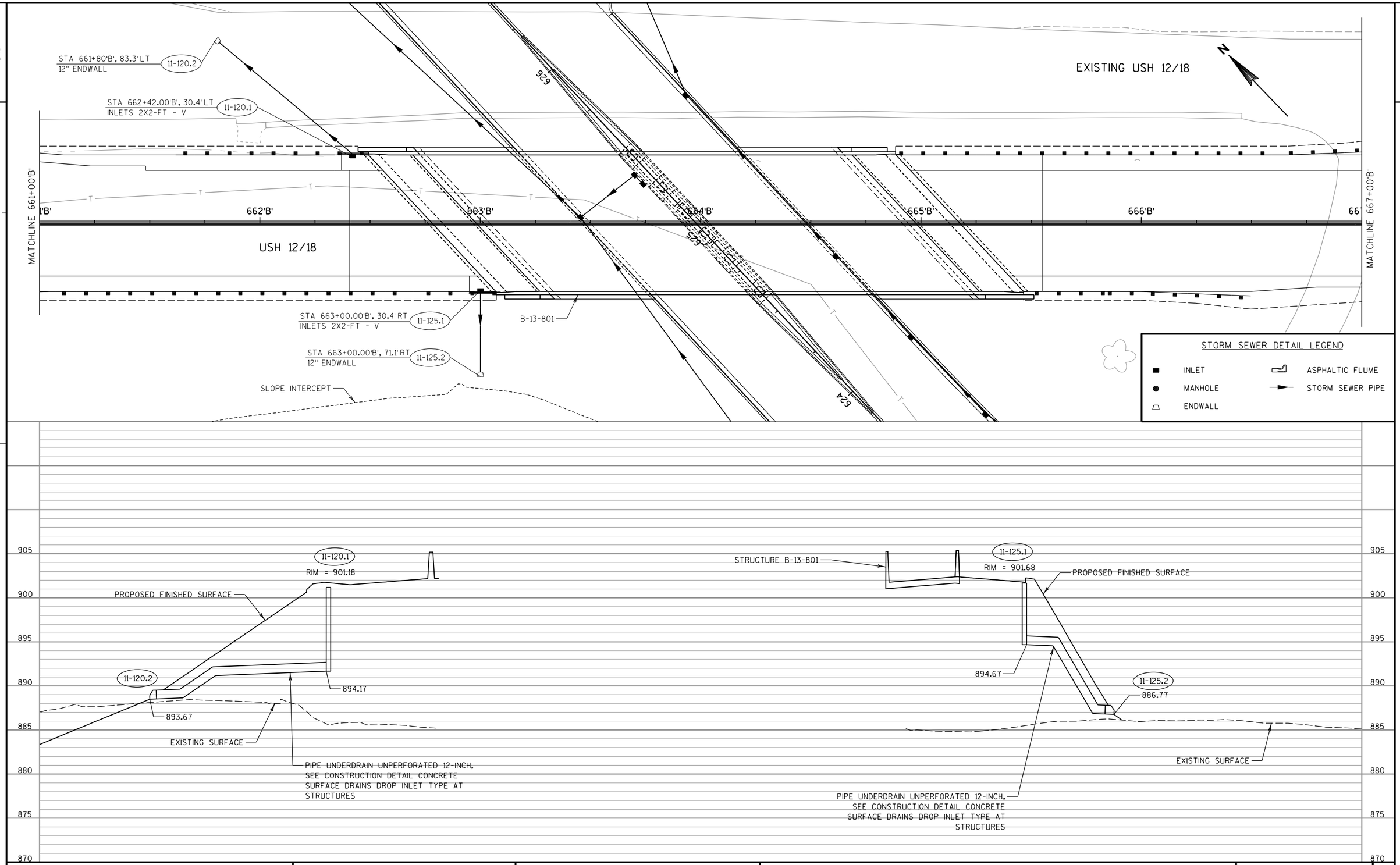
12" SSPRC @ 2.00%

889.14

18" SSPRC @ 2.00%

EXISTING SURFACE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - USH 12/18	SHEET 129	E



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - USH 12/18	SHEET 130 E

2

EXISTING USH 12/18

N

MATCHLINE 667+00'B'

7'B'

668'B'

669'B'

USH 12/18

670'B'

671'B'

672'B'

67

MATCHLINE 673+00'B'

12-130.1 STA 671+00'B', 2.1' LT
INLETS 2X2.5-FT - BW

12-130.2 STA 671+00'B', 2.1' RT
INLETS 2X2.5-FT - BW

12-130.3 STA 671+00'B', 72.3' RT
18" ENDWALL

STORM SEWER DETAIL LEGEND

- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE

905
900
895
890
885
880
875
870

12-130.1
RIM = 901.71

12-130.2
RIM = 901.71

PROPOSED FINISHED SURFACE

12-130.3
895.00

896.38

896.92
12" SSPRC @ 2.00%
896.88

18" SSPRC @ 2.00%

EXISTING SURFACE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - USH 12/18	SHEET 131	E

2

EXISTING USH 12/18

N

MATCHLINE 673+00'B'

MATCHLINE 679+00'B'

USH 12/18

674'B' 675'B' 676'B' 677'B' 678'B'

13-135.1 STA 675+00'B', 2.1' LT
INLETS 2X2.5-FT - BW

13-135.2 STA 675+00'B', 2.1' RT
INLETS 2X2.5-FT - BW

13-135.3 STA 675+00'B', 66.9' RT
18" ENDWALL

JUG RAMP A

100' A

STORM SEWER DETAIL LEGEND

- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE

905
900
895
890
885
880
875
870

13-135.1
RIM = 896.09

13-135.2
RIM = 896.09

PROPOSED FINISHED SURFACE

13-135.3
889.59

891.41
12" SSPRC @ 2.00%
891.37

890.87
18" SSPRC @ 2.00%

EXISTING SURFACE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - USH 12/18	SHEET 132	E

EXISTING USH 12/18

N

MATCHLINE 679+00'B'

MATCHLINE 685+00'B'

USH 12/18

679'B' 680'B' 681'B' 682'B' 683'B' 684'B'

14-140.1 STA 679+27'B', 2.1' LT
INLETS 2X2.5-FT - BW

14-140.2 STA 679+27'B', 2.1' RT
INLETS 2X2.5-FT - BW

14-140.3 STA 679+27'B', 30.5' RT
INLETS 2X3-FT - HM

14-140.4 STA 679+29.37'B', 38.4' RT
INLETS 2X3-FT - HM

14-140.5 STA 679+58.25'B', 84.9' RT
18" ENDWALL

STA 682+90'B', 2.1' LT
INLETS 2X2.5-FT - BW 14-145.1

14-145.2 STA 683+00'B', 2.1' LT
INLETS 2X2.5-FT - BW

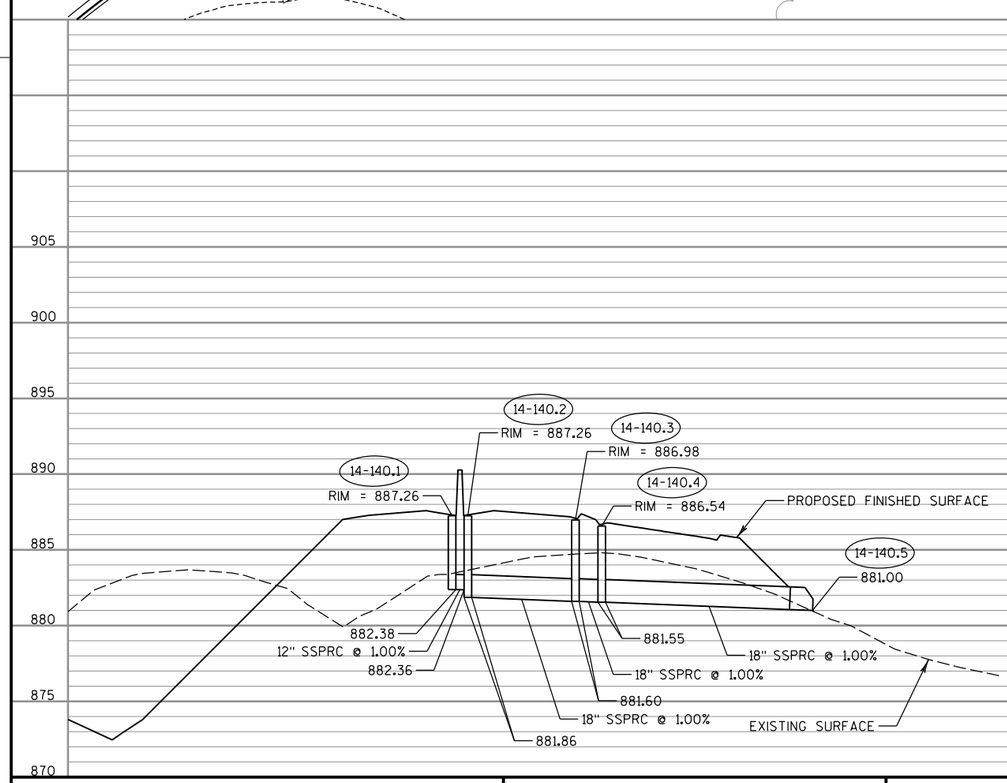
14-145.3 STA 683+00'B', 2.1' RT
INLETS 2X2.5-FT - BW

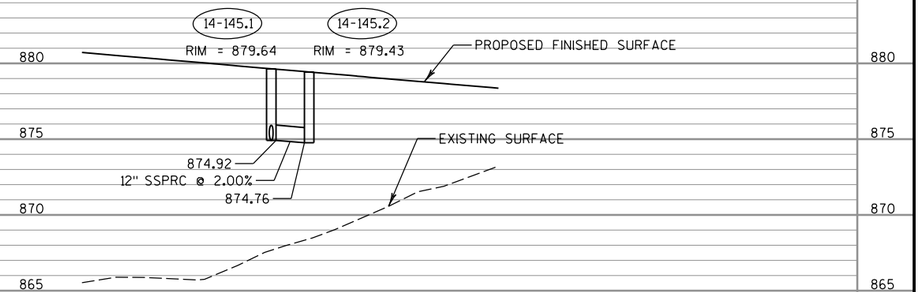
14-145.4 STA 683+00'B', 75.3' RT
18" ENDWALL

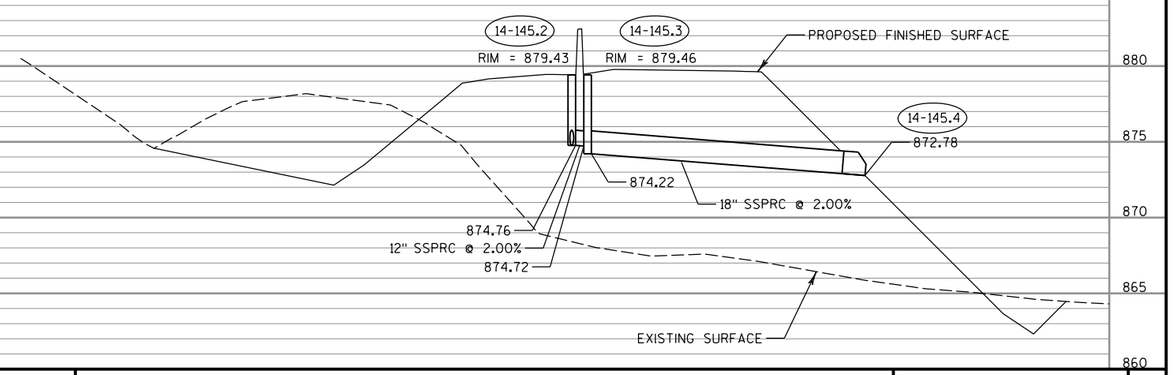
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STORM SEWER DETAIL LEGEND

- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE







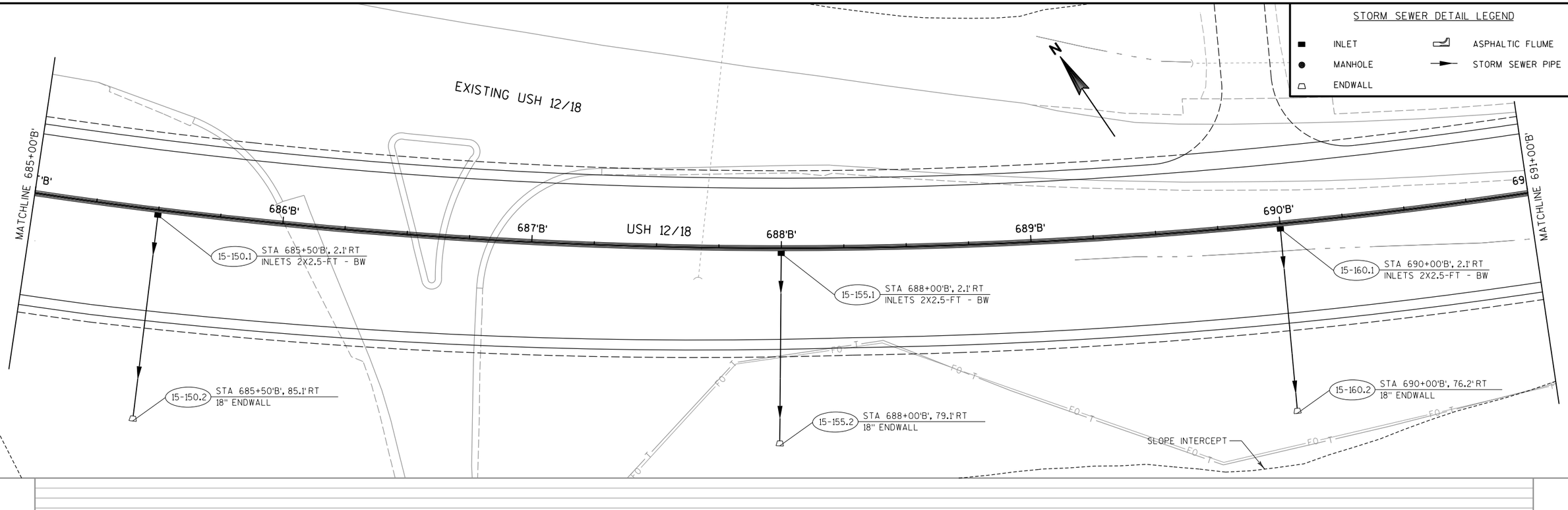
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - USH 12/18	SHEET 133	E

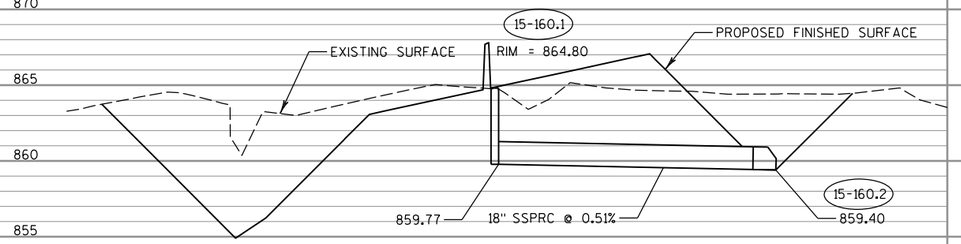
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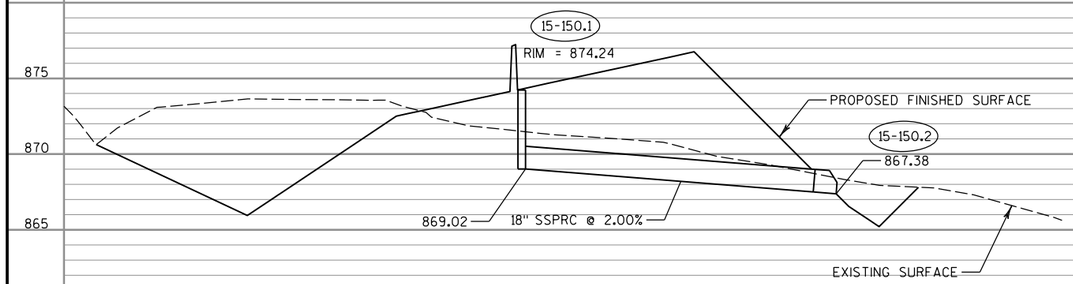
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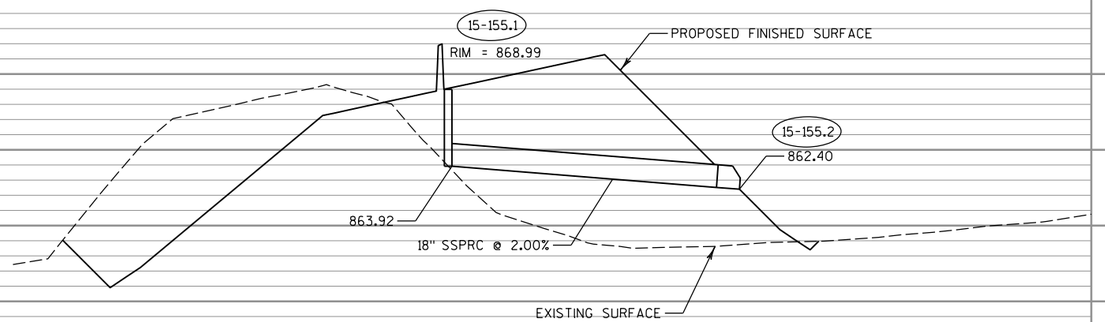
STORM SEWER DETAIL LEGEND

- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE



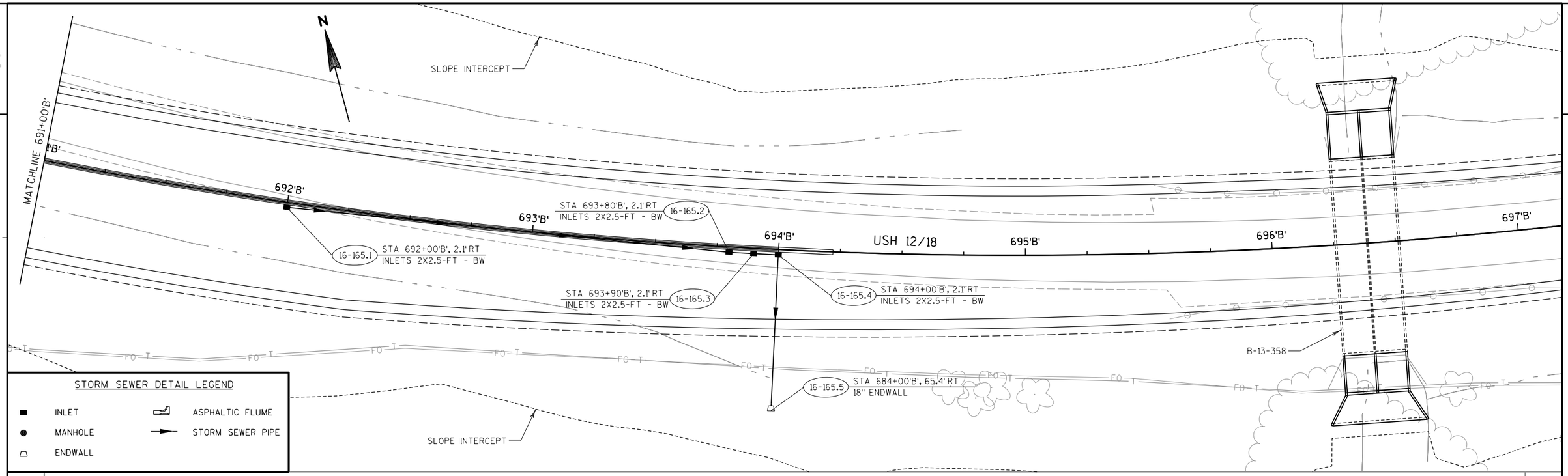


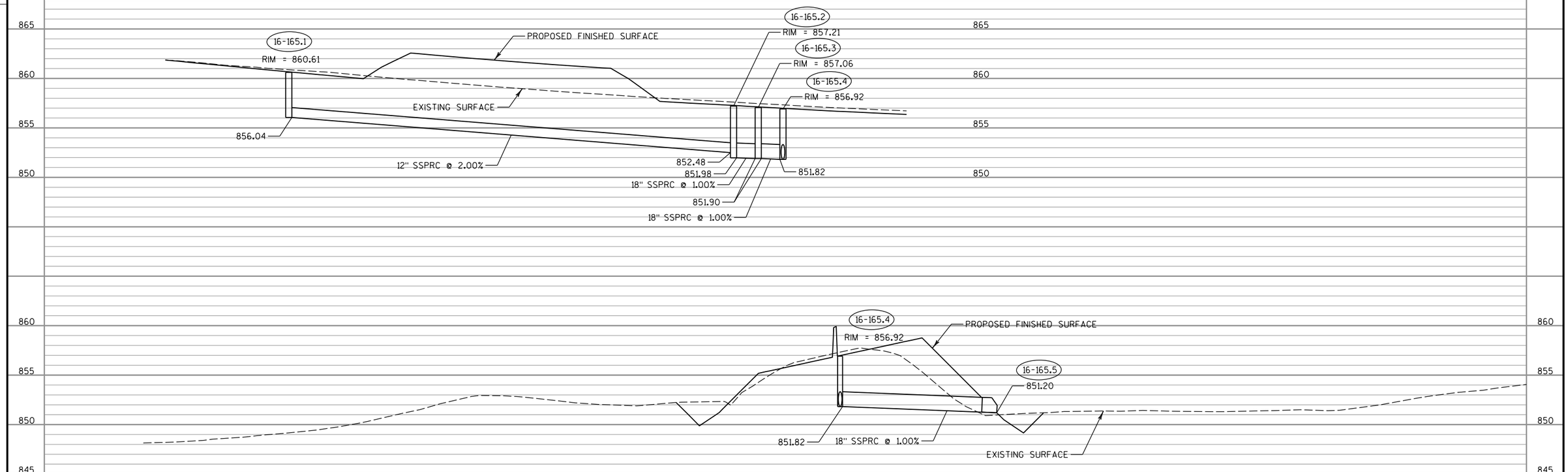




PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - USH 12/18	SHEET 134 E

2





PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - USH 12/18	SHEET 135 E

2

STH 73

USH 12/18

JUG RAMP A

1001'JA' 1002'JA' 1003'JA' 1004'JA' 1005'JA'

610

609

17-200.3 STA 1003+00'JA', 69.0'LT
18" ENDWALL

17-200.2 STA 1003+00'JA', 6.5'LT
INLETS 2X3-FT - HM

STA 1003+00'JA', 7.0'RT
INLETS 2X3-FT - HM 17-200.1

STORM SEWER DETAIL LEGEND

- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE

890 885 880 875 870 865 860 855 850

17-200.2 RIM = 882.67

17-200.1 RIM = 883.10

17-200.3 876.26

877.50

878.24

878.00

12" SSPRC @ 2.00%

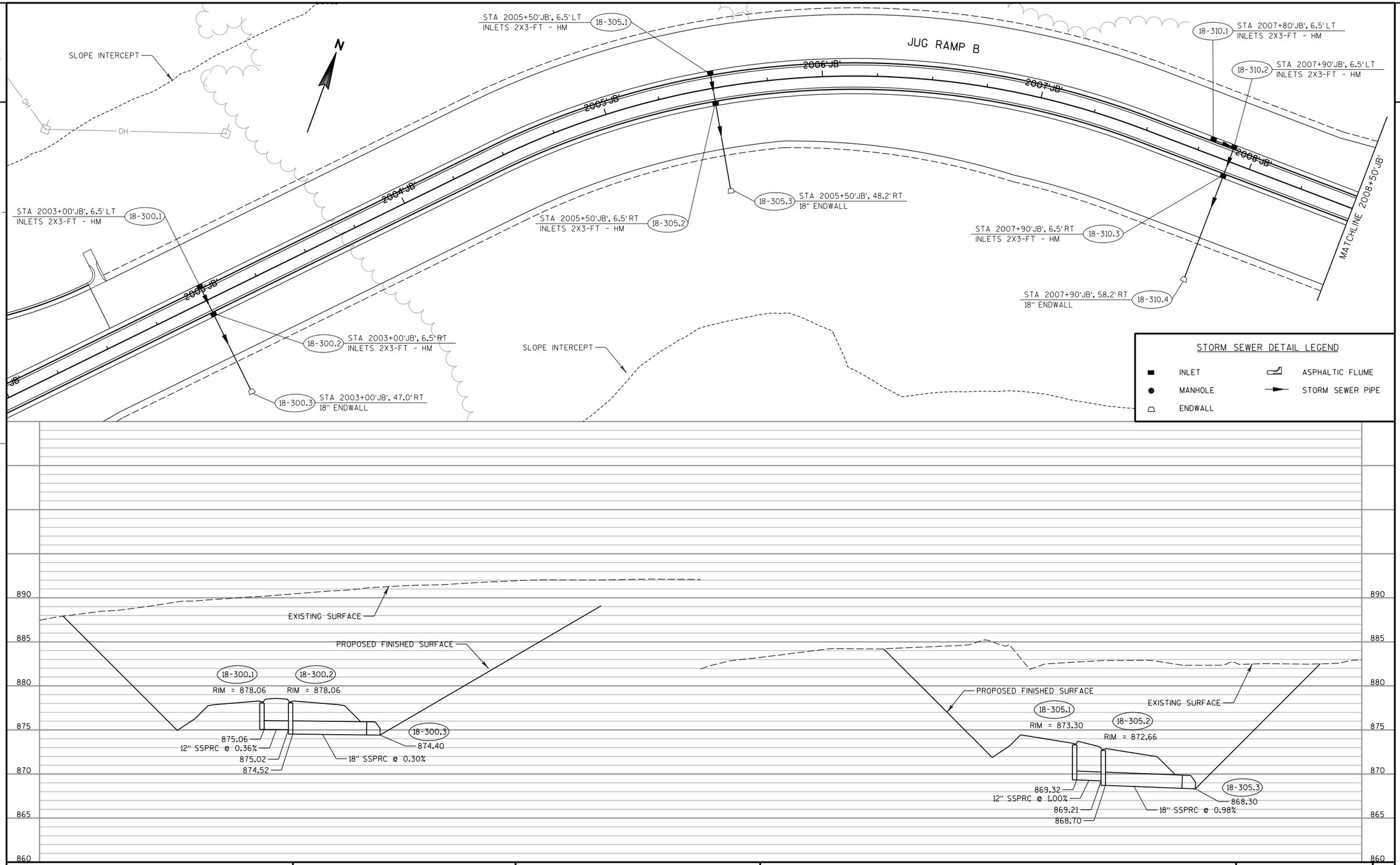
18" SSPRC @ 2.00%

PROPOSED FINISHED SURFACE

EXISTING SURFACE

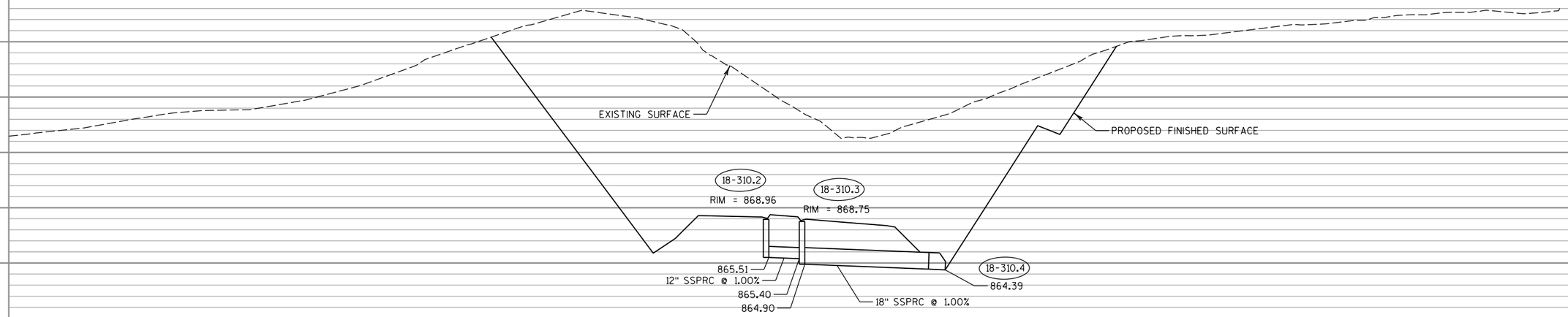
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - JUG RAMP A	SHEET 136 E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022517_ss.dgn PLOT DATE : 10/18/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - JUG RAMP B	SHEET 137 E





PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - JUG RAMP B	SHEET 138	E

2

STA 2009+24.64'JB', 66.9' RT
18" ENDWALL
19-315.3

STA 2009+36'JB', 0.6' LT
INLETS 2X3-FT - HM
19-315.2

MATCHLINE 2008+50'JB'

2009'JB'

2010'JB'

JUG RAMP B

19-315.1
STA 2009+36'JB', 6.5' RT
INLETS 2X3-FT - HM

638

637

STH 73

SLOPE INTERCEPT

19-400.4
STA 300+80'SH', 75.0' LT
18" ENDWALL

N

19-400.3
STA 300+65'SH', 6.5' LT
INLETS 2X3-FT - HM

19-400.2
STA 301+90'SH', 6.5' LT
INLETS 2X3-FT - HM

301'SH'

302'SH'

303'SH'

19-400.1
STA 300+65'SH', 0.5' RT
INLETS 2X3-FT - HM

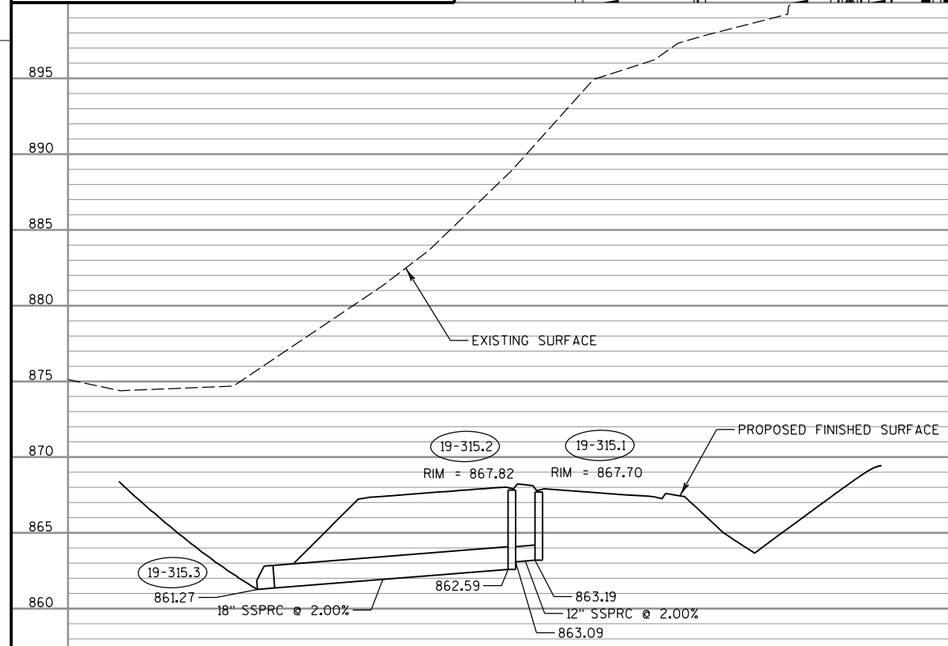
SHAUL LN

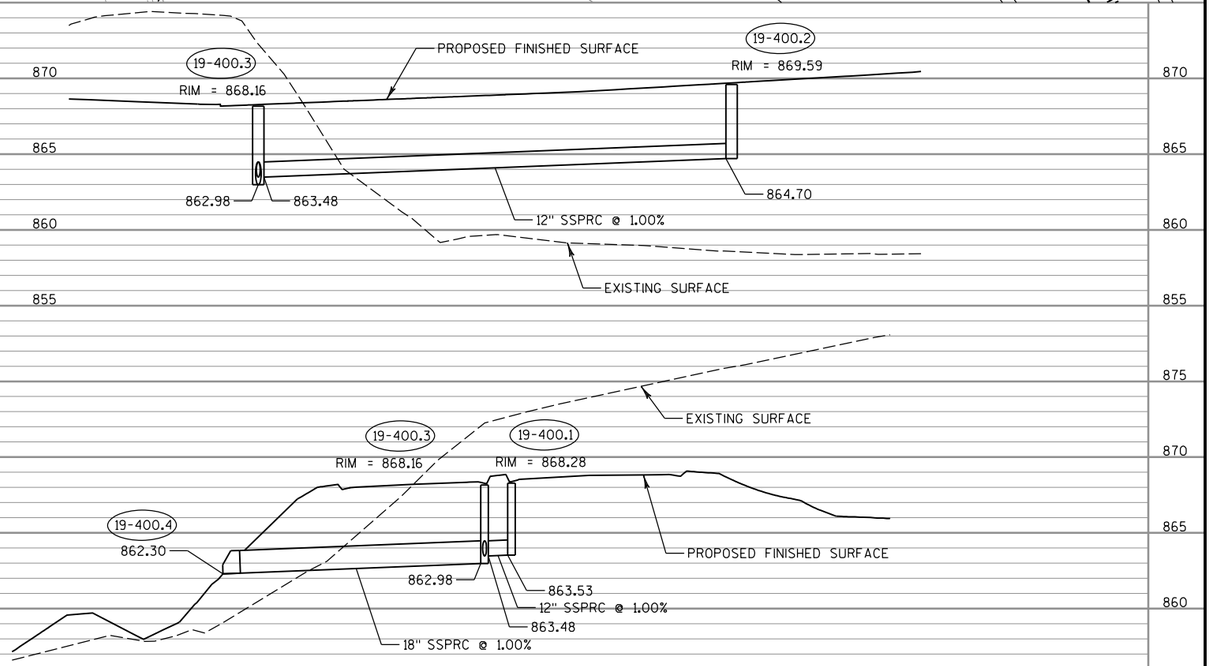
SLOPE INTERCEPT

304

STORM SEWER DETAIL LEGEND

- INLET
- MANHOLE
- ENDWALL
- ASPHALTIC FLUME
- STORM SEWER PIPE





PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	STORM SEWER - JUG RAMP B / SHAUL LANE	SHEET 139	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\022519_ss.dgn PLOT DATE : 10/18/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40

2

LEGEND

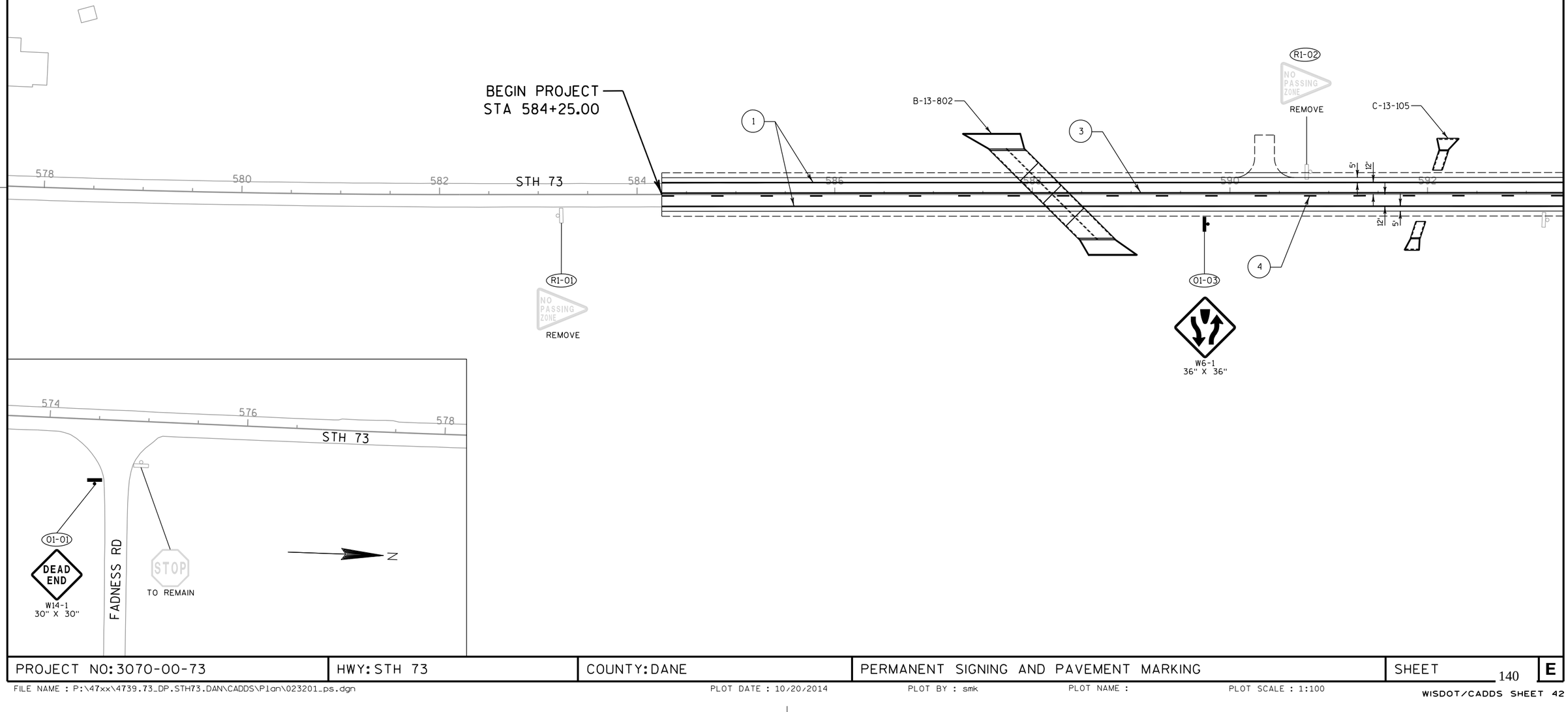
1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	9	PAVEMENT MARKING WORDS EPOXY (WHITE)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9' SKIP)	10	PAVEMENT MARKING CURB EPOXY (YELLOW)
3	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	11	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
4	PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5' SKIP)	12	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	13	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25' C-C)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)	14	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10' C-C)
7	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)	15	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)
8	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3' LINE, 9' SKIP)	16	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3' LINE, 9' SKIP)

	POST MOUNTED SIGN (EXISTING)
	MULTIPLE POST MOUNTED SIGN (EXISTING)
	POST MOUNTED SIGN (NEW)
	MULTIPLE POST MOUNTED SIGN (NEW)
XX-XX	DENOTES SIGN NUMBER
RO-00	DENOTES REMOVAL NUMBER

NOTE

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED

N



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 140	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\023201_ps.dgn PLOT DATE : 10/20/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9' SKIP)
3	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
4	PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5' SKIP)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
8	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3' LINE, 9' SKIP)
9	PAVEMENT MARKING WORDS EPOXY (WHITE)
10	PAVEMENT MARKING CURB EPOXY (YELLOW)
11	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
12	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
13	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25' C-C)
14	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10' C-C)
15	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)
16	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3' LINE, 9' SKIP)

POST MOUNTED SIGN (EXISTING)

MULTIPLE POST MOUNTED SIGN (EXISTING)

POST MOUNTED SIGN (NEW)

MULTIPLE POST MOUNTED SIGN (NEW)

XX-XX DENOTES SIGN NUMBER

R0-00 DENOTES REMOVAL NUMBER

NOTES

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED

STATIONING ON PAVEMENT MARKING ARROWS AND WORDS IS TO THE CENTER OF THE ARROW OR CENTER OF THE WORD

02-01 W14-3 48" X 36" NO PASSING ZONE

02-06 D2-1 72" X 15" Edgerton 14

02-05 W6-3 36" X 36"

02-08 R2-1 24" X 30" SPEED LIMIT 55

02-11 02-12 R4-7 36" X 48"

W5-54 18" X 18" 4' MIN MOUNTING HEIGHT

02-13 R5-1 36" X 36" DO NOT ENTER

02-14 W6-2 36" X 36"

02-17 R5-1A 42" X 30" WRONG WAY

02-18 J4-2 48" X 36" SOUTH ALTERNATE INTERSTATE 73 39

02-15 R5-1A 42" X 30" WRONG WAY

02-10 D1-3 78" X 36" Madison Deerfield Cambridge

02-07A J2-2 48" X 57" EAST EAST 12 18

02-07 J2-4 96" X 57" WEST WEST NORTH ALTERNATE 12 18 73 39

02-03 J1-2 48" X 39" JCT JCT 12 18

R2-01 REMOVE JCT JCT 12 18

R2-02 REMOVE EAST EAST 12 18

R2-03 REMOVE

R2-04 REMOVE Edgerton 14

R2-05 REMOVE WEST WEST NORTH ALTERNATE 12 18 73 39

R2-06 REMOVE SPEED LIMIT 55

R2-07 REMOVE Deerfield Madison Cambridge

R2-08 REMOVE SOUTH ALTERNATE 73 39

STH 73

EXISTING STH 73

EXISTING USH 12/18

USH 12/18

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 141	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\023202_ps.dgn PLOT DATE : 10/20/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

NOTES

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED

STATIONING ON PAVEMENT MARKING ARROWS AND WORDS IS TO THE CENTER OF THE ARROW OR CENTER OF THE WORD

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9' SKIP)
3. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5' SKIP)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
8. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)
9. PAVEMENT MARKING WORDS EPOXY (WHITE)
10. PAVEMENT MARKING CURB EPOXY (YELLOW)
11. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
12. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25' C-C)
14. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10' C-C)
15. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)

POST MOUNTED SIGN (EXISTING)
MULTIPLE POST MOUNTED SIGN (EXISTING)
POST MOUNTED SIGN (NEW)
MULTIPLE POST MOUNTED SIGN (NEW)
(XX-XX) DENOTES SIGN NUMBER
(R0-00) DENOTES REMOVAL NUMBER

03-01 / 03-05 / 03-07 R4-7 24" X 30"
03-06 ONE WAY R6-2L 24" X 30"
03-08 DO NOT ENTER R5-1 36" X 36"
03-09 EAST EAST ALTERNATE INTERSTATE 12 18 94 J3-3 72" X 57"
03-11 WRONG WAY R5-1A 42" X 30"
03-16 Edgerton / Cambridge D1-2 78" X 30"
03-17 EAST EAST ALTERNATE INTERSTATE 12 18 94 J2-3 72" X 57"
03-03 DO NOT ENTER R5-1 36" X 36"
03-29 STOP R1-1 36" X 36"
03-31 STOP R1-1 36" X 36"
03-32 DIVIDED HIGHWAY R6-3A 30" X 24"
03-30 CROSS TRAFFIC DOES NOT STOP W4-4P 24" X 12"
03-32A CROSS TRAFFIC DOES NOT STOP W4-4P 24" X 12"
03-33 SOUTH ALTERNATE NORTH ALTERNATE INTERSTATE 73 39 73 94 J3-4 96" X 57"
03-34 DO NOT ENTER R5-1 36" X 36"
03-12 NORTH ALTERNATE INTERSTATE 73 39 94 J4-3 72" X 36"
03-15 BEGIN LEFT TURN LANE R3-20L 24" X 36"
03-18 SPEED LIMIT 55 R2-1 24" X 30"
03-02 EAST EAST 12 18 J3-2 48" X 57"
03-35 W1-1R 36" X 36"
03-36 20 M.P.H. W13-1 24" X 24"
03-27 Edgerton / Deerfield D1-2 66" X 30"
03-28 WRONG WAY R5-1A 42" X 30"
03-25 SOUTH ALTERNATE NORTH ALTERNATE INTERSTATE 73 39 73 94 J2-4 96" X 57"
03-24 W3-1 36" X 36"
03-19 WRONG WAY R5-1A 42" X 30"
03-20 DO NOT ENTER R5-1 36" X 36"
03-21 R4-7 24" X 30"

JUG RAMP A
STH 73
USH 12/18
EXISTING USH 12/18

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 142	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\023203_ps.dgn PLOT DATE : 10/20/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9'SKIP)
3. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5'SKIP)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
8. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3'LINE, 9'SKIP)
9. PAVEMENT MARKING WORDS EPOXY (WHITE)
10. PAVEMENT MARKING CURB EPOXY (YELLOW)
11. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
12. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)

NOTES

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED

STATIONING ON PAVEMENT MARKING ARROWS AND WORDS IS TO THE CENTER OF THE ARROW OR CENTER OF THE WORD

LEGEND CONT'

13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25'C-C)
14. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10'C-C)
15. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25'C-C)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3'LINE, 9'SKIP)

POST MOUNTED SIGN (EXISTING)

MULTIPLE POST MOUNTED SIGN (EXISTING)

POST MOUNTED SIGN (NEW)

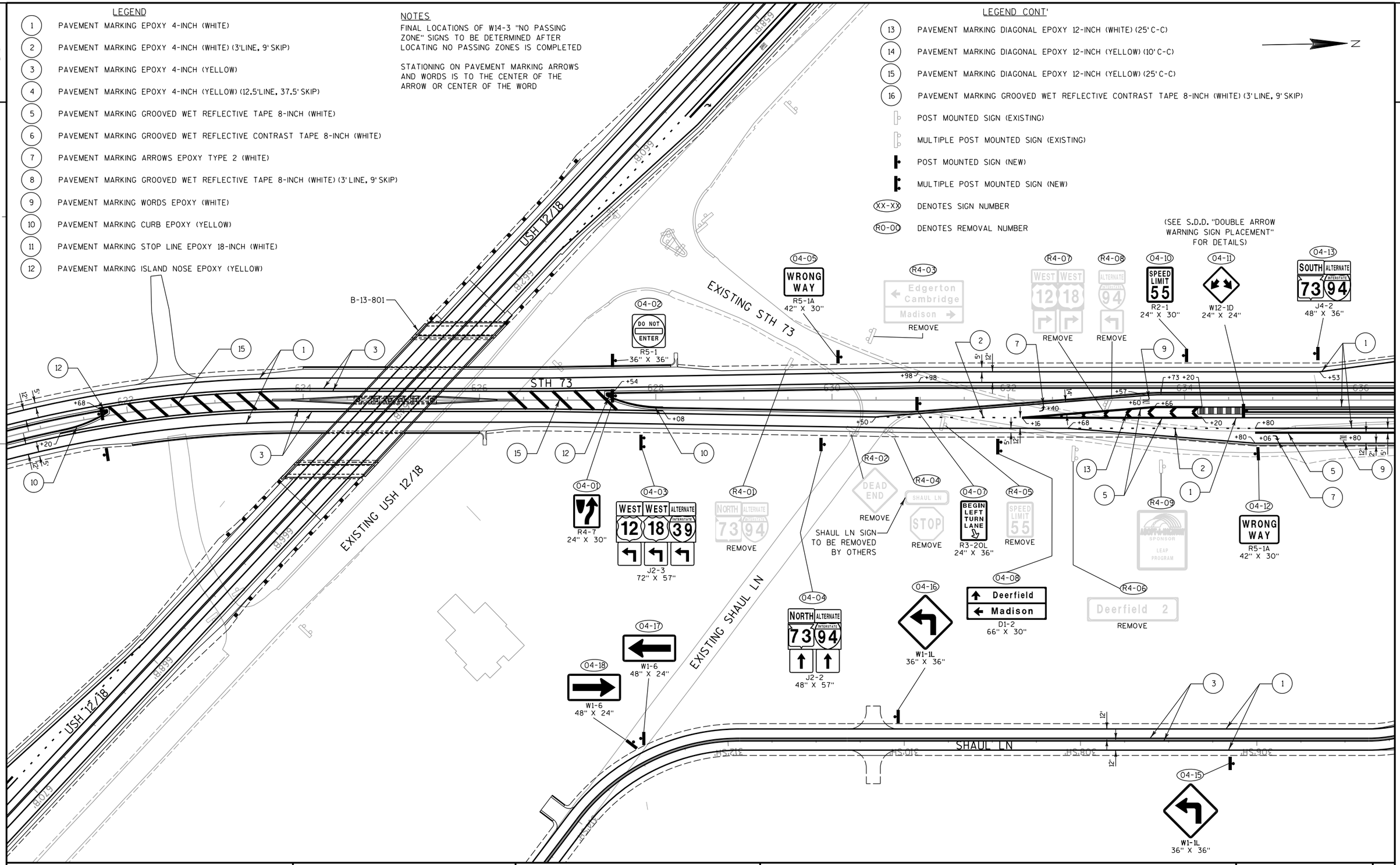
MULTIPLE POST MOUNTED SIGN (NEW)

XX-XX DENOTES SIGN NUMBER

R0-00 DENOTES REMOVAL NUMBER

(SEE S.D.D. "DOUBLE ARROW WARNING SIGN PLACEMENT" FOR DETAILS)

N



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 143	E

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	9	PAVEMENT MARKING WORDS EPOXY (WHITE)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9' SKIP)	10	PAVEMENT MARKING CURB EPOXY (YELLOW)
3	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	11	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
4	PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5' SKIP)	12	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	13	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25'C-C)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)	14	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10'C-C)
7	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)	15	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25'C-C)
8	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)	16	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)

POST MOUNTED SIGN (EXISTING)
MULTIPLE POST MOUNTED SIGN (EXISTING)
POST MOUNTED SIGN (NEW)
MULTIPLE POST MOUNTED SIGN (NEW)
XX-XX DENOTES SIGN NUMBER
RO-00 DENOTES REMOVAL NUMBER

NOTES

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED

STATIONING ON PAVEMENT MARKING ARROWS AND WORDS IS TO THE CENTER OF THE ARROW OR CENTER OF THE WORD

SHAUL LANE DETAIL FOR PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10'C-C)

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 144	E

LEGEND

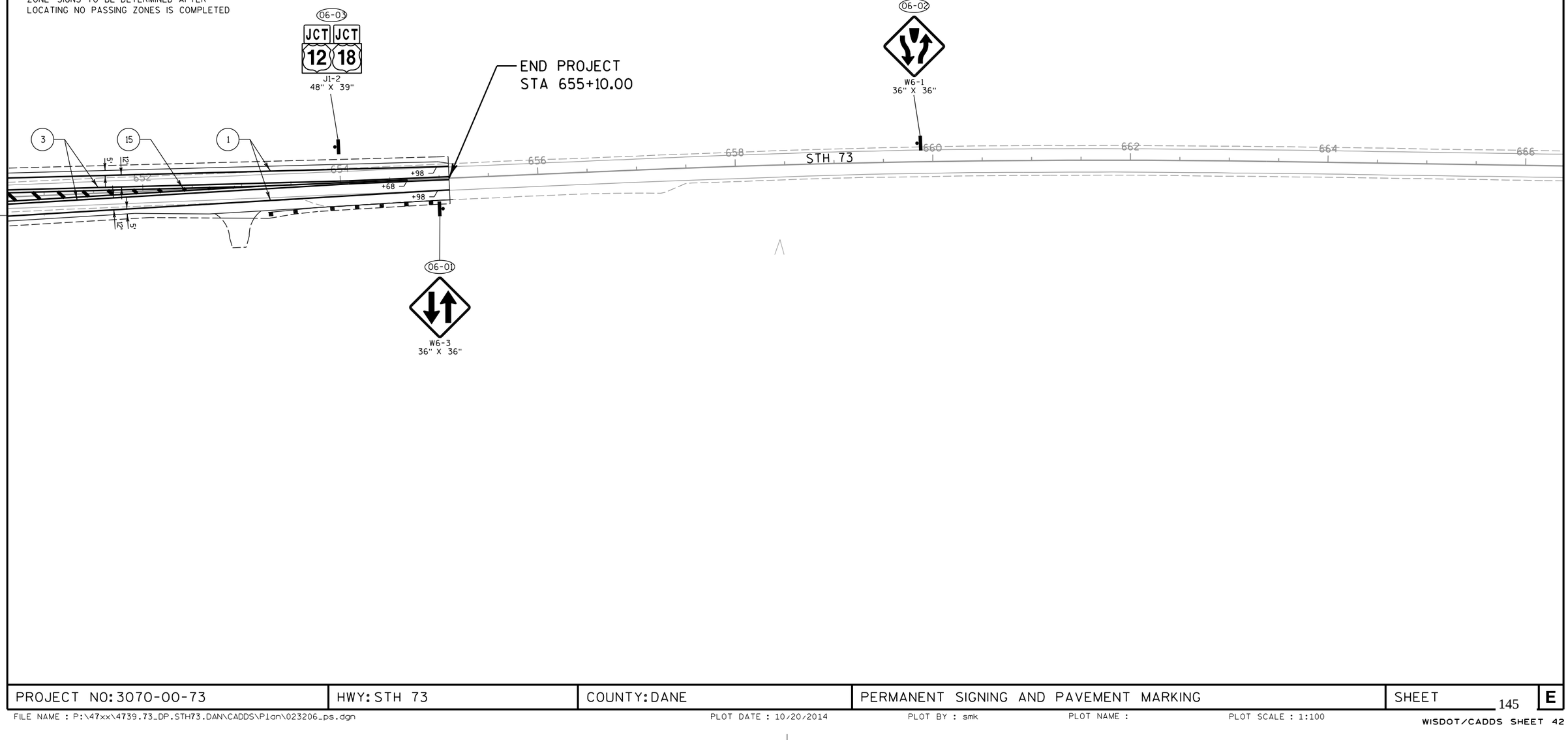
1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	9	PAVEMENT MARKING WORDS EPOXY (WHITE)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9'SKIP)	10	PAVEMENT MARKING CURB EPOXY (YELLOW)
3	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	11	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
4	PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5'SKIP)	12	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	13	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25'C-C)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)	14	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10'C-C)
7	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)	15	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25'C-C)
8	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3'LINE, 9'SKIP)	16	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3'LINE, 9'SKIP)

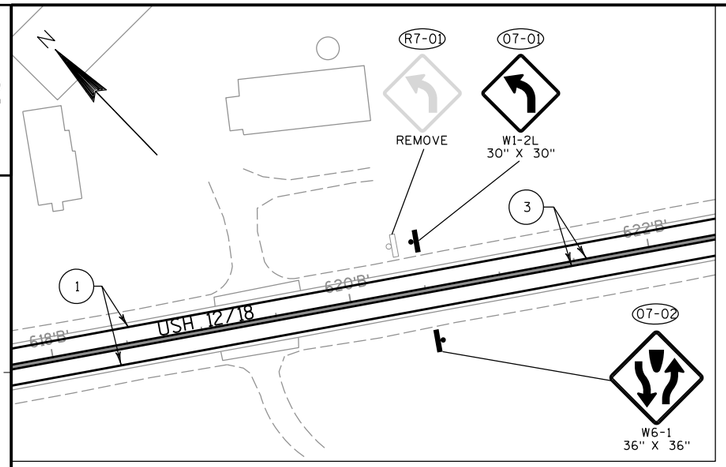
	POST MOUNTED SIGN (EXISTING)
	MULTIPLE POST MOUNTED SIGN (EXISTING)
	POST MOUNTED SIGN (NEW)
	MULTIPLE POST MOUNTED SIGN (NEW)
XX-XX	DENOTES SIGN NUMBER
RO-00	DENOTES REMOVAL NUMBER

N

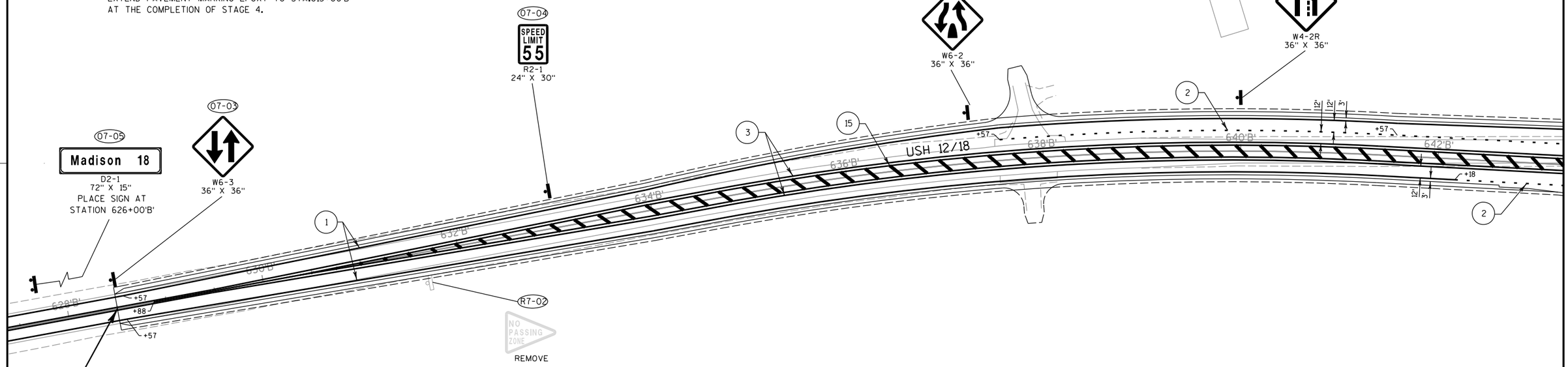
NOTE

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED





EXTEND PAVEMENT MARKING EPOXY TO STA.613+00'B'
AT THE COMPLETION OF STAGE 4.



NOTE

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	9	PAVEMENT MARKING WORDS EPOXY (WHITE)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9' SKIP)	10	PAVEMENT MARKING CURB EPOXY (YELLOW)
3	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	11	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
4	PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5' SKIP)	12	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	13	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25' C-C)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)	14	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10' C-C)
7	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)	15	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)
8	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)	16	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)

	POST MOUNTED SIGN (EXISTING)
	MULTIPLE POST MOUNTED SIGN (EXISTING)
	POST MOUNTED SIGN (NEW)
	MULTIPLE POST MOUNTED SIGN (NEW)
XX-XX	DENOTES SIGN NUMBER
RO-00	DENOTES REMOVAL NUMBER

6'NU' NUL-AND-RD

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 146	E

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9' SKIP)
3. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5' SKIP)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
8. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)
9. PAVEMENT MARKING WORDS EPOXY (WHITE)
10. PAVEMENT MARKING CURB EPOXY (YELLOW)
11. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
12. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25' C-C)
14. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10' C-C)
15. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3' LINE, 9' SKIP)

XX-XX DENOTES SIGN NUMBER

R0-00 DENOTES REMOVAL NUMBER

POST MOUNTED SIGN (EXISTING)

MULTIPLE POST MOUNTED SIGN (EXISTING)

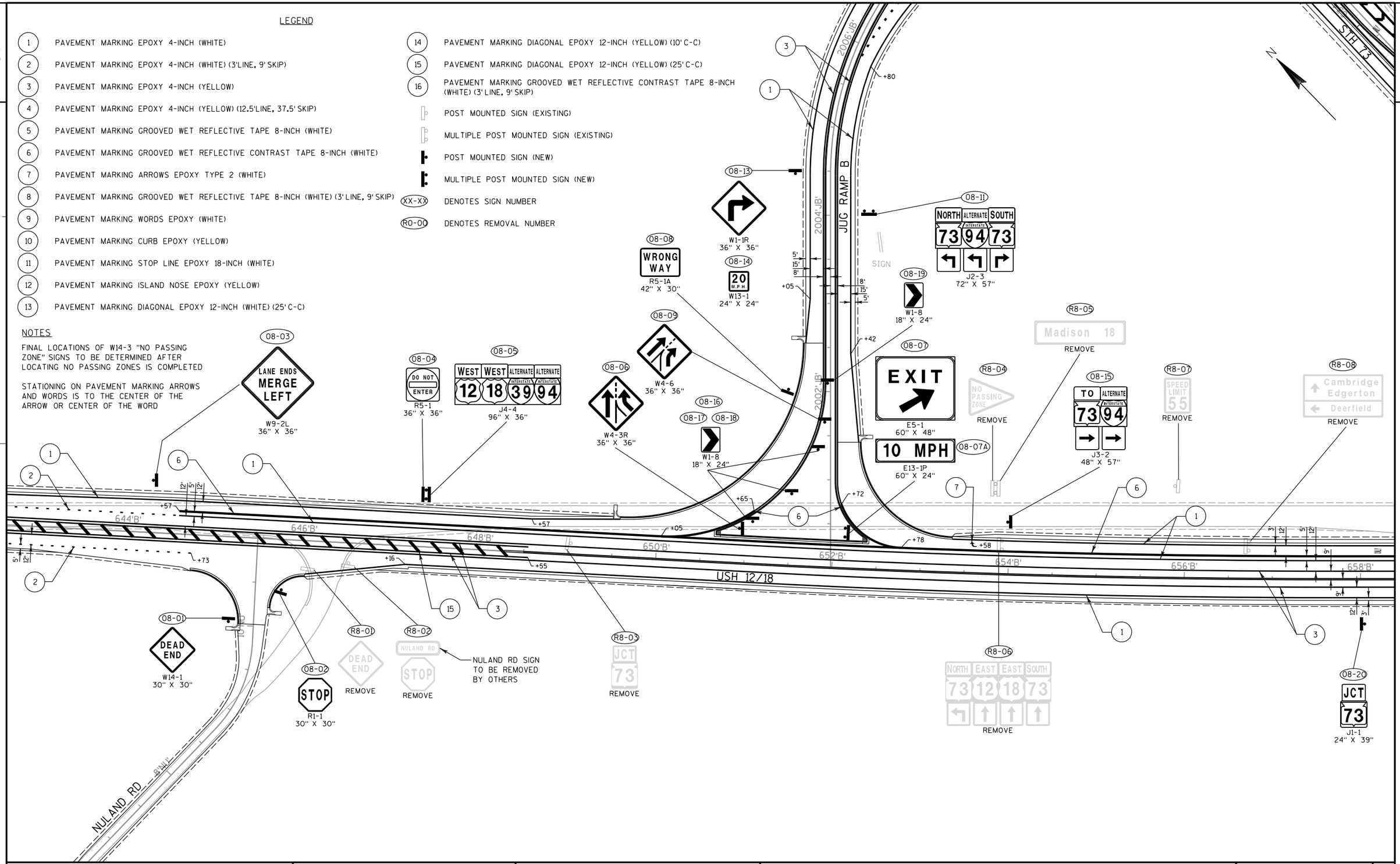
POST MOUNTED SIGN (NEW)

MULTIPLE POST MOUNTED SIGN (NEW)

NOTES

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED

STATIONING ON PAVEMENT MARKING ARROWS AND WORDS IS TO THE CENTER OF THE ARROW OR CENTER OF THE WORD

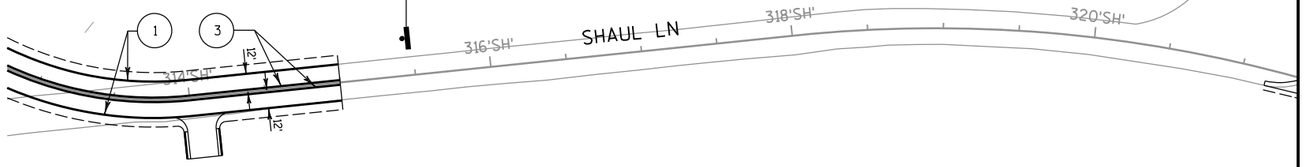


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 147	E

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	12	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9' SKIP)	13	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25' C-C)
3	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	14	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10' C-C)
4	PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5' SKIP)	15	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	16	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)		POST MOUNTED SIGN (EXISTING)
7	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		MULTIPLE POST MOUNTED SIGN (EXISTING)
8	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)		POST MOUNTED SIGN (NEW)
9	PAVEMENT MARKING WORDS EPOXY (WHITE)		MULTIPLE POST MOUNTED SIGN (NEW)
10	PAVEMENT MARKING CURB EPOXY (YELLOW)	XX-XX	DENOTES SIGN NUMBER
11	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)	R0-00	DENOTES REMOVAL NUMBER

09-13
W1-1R
36" X 36"

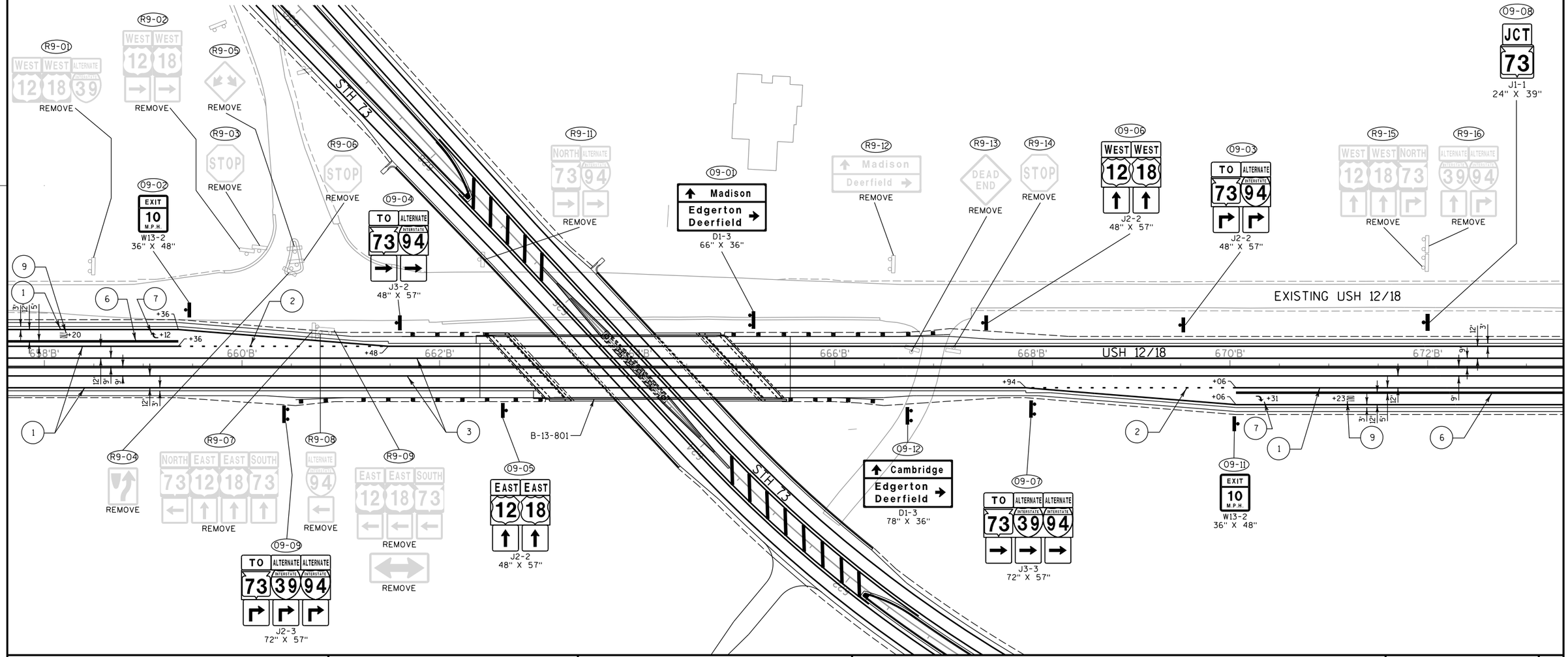


NOTES

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED

STATIONING ON PAVEMENT MARKING ARROWS AND WORDS IS TO THE CENTER OF THE ARROW OR CENTER OF THE WORD

R9-01 WEST WEST ALTERNATE 12 18 39 — REMOVE
R9-02 WEST WEST 12 18 — REMOVE
R9-05 — REMOVE
R9-03 STOP — REMOVE
09-02 EXIT 10 M.P.H. — W13-2 36" X 48"
R9-06 STOP — REMOVE
09-04 TO ALTERNATE INTERSTATE 73 94 — J3-2 48" X 57"
R9-11 NORTH ALTERNATE INTERSTATE 73 94 — REMOVE
09-01 Madison / Edgerton / Deerfield — D1-3 66" X 36"
R9-12 Madison / Deerfield — REMOVE
R9-13 DEAD END — REMOVE
R9-14 STOP — REMOVE
09-06 WEST WEST 12 18 — J2-2 48" X 57"
09-03 TO ALTERNATE INTERSTATE 73 94 — J2-2 48" X 57"
R9-15 WEST WEST NORTH 12 18 73 — REMOVE
R9-16 ALTERNATE ALTERNATE INTERSTATE INTERSTATE 39 94 — REMOVE
09-08 JCT 73 — J1-1 24" X 39"



R9-04 — REMOVE
R9-07 NORTH EAST EAST SOUTH 73 12 18 73 — REMOVE
R9-08 ALTERNATE 94 — REMOVE
R9-09 EAST EAST SOUTH 12 18 73 — REMOVE
09-09 TO ALTERNATE ALTERNATE INTERSTATE INTERSTATE 73 39 94 — J2-3 72" X 57"
09-05 EAST EAST 12 18 — J2-2 48" X 57"
09-12 Cambridge / Edgerton / Deerfield — D1-3 78" X 36"
09-07 TO ALTERNATE ALTERNATE INTERSTATE INTERSTATE 73 39 94 — J3-3 72" X 57"
09-11 EXIT 10 M.P.H. — W13-2 36" X 48"

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 148	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\023209_ps.dgn PLOT DATE : 10/20/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

N

NOTES

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED

STATIONING ON PAVEMENT MARKING ARROWS AND WORDS IS TO THE CENTER OF THE ARROW OR CENTER OF THE WORD

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9' SKIP)
3. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5' SKIP)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
8. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)
9. PAVEMENT MARKING WORDS EPOXY (WHITE)
10. PAVEMENT MARKING CURB EPOXY (YELLOW)
11. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
12. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25' C-C)
14. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10' C-C)
15. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)

POST MOUNTED SIGN (EXISTING)
MULTIPLE POST MOUNTED SIGN (EXISTING)
POST MOUNTED SIGN (NEW)
MULTIPLE POST MOUNTED SIGN (NEW)
XX-XX DENOTES SIGN NUMBER
R0-00 DENOTES REMOVAL NUMBER

R10-13 REMOVE
322'SH'
324'SH'
326'SH'
328'SH'
330'SH'
SHAUL LN
10-07 10-08 10-09
W5-56 18" X 18" (SEE S.D.D. "END OF ROADWAY SIGNING" FOR DETAILS)
10-01 JCT 73 J1-1 24" X 39"
10-02 ADOPT-A-HIGHWAY SPONSOR KNIGHTS OF COLUMBUS COUNCIL 7775 COTTAGE GROVE 155-56 30" X 36"
R10-02 REMOVE
R10-03 Cambridge Edgerton REMOVE
R10-05 ALTERNATE 94 ALTERNATE 39 REMOVE
R10-04 SOUTH 73 REMOVE
R10-14 ADOPT-A-HIGHWAY SPONSOR KNIGHTS OF COLUMBUS COUNCIL 7775 COTTAGE GROVE
R10-06 REMOVE
R10-07 SOUTH 73 WEST 12 WEST 18 NORTH 73 REMOVE
R10-09 WEST 12 WEST 18 NORTH 73 ALTERNATE 39 REMOVE
R10-08 STOP REMOVE
674'B' 676'B' 678'B' 680'B' USH 12/18 682'B' 684'B' 686'B' 688'B'
R10-01 SOUTH 73 ALTERNATE 39 REMOVE
10-19 TO 73 ALTERNATE 39 ALTERNATE 94 J3-3 72" X 57"
10-04 EXIT E5-1 60" X 48"
10-04A 10 MPH E13-1P 60" X 24"
1004'JA'
JUG RAMP A
10-18 10-16 10-17 W1-8 18" X 24"
10-03 W4-6 36" X 36"
10-15 W1-8 18" X 24"
10-05 W4-3R 36" X 36"
10-06 W1-2L 36" X 36"
10-11 EAST 12 EAST 18 ALTERNATE 94 INTERSTATE J4-3 72" X 36"
10-12 LANE ENDS MERGE LEFT W9-2L 36" X 36"
R10-10 REMOVE
10-13 ADOPT-A-HIGHWAY SPONSOR THOMPSON CORRECTIONAL CENTER 155-56 30" X 36"
R10-11 STOP REMOVE
R10-12 EAST 12 EAST 18 REMOVE
EXISTING STH 73

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 149	E

2

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	9	PAVEMENT MARKING WORDS EPOXY (WHITE)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9' SKIP)	10	PAVEMENT MARKING CURB EPOXY (YELLOW)
3	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	11	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
4	PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5' SKIP)	12	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
5	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)	13	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25' C-C)
6	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)	14	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10' C-C)
7	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)	15	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)
8	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3' LINE, 9' SKIP)	16	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3'LINE, 9' SKIP)

POST MOUNTED SIGN (EXISTING)

MULTIPLE POST MOUNTED SIGN (EXISTING)

POST MOUNTED SIGN (NEW)

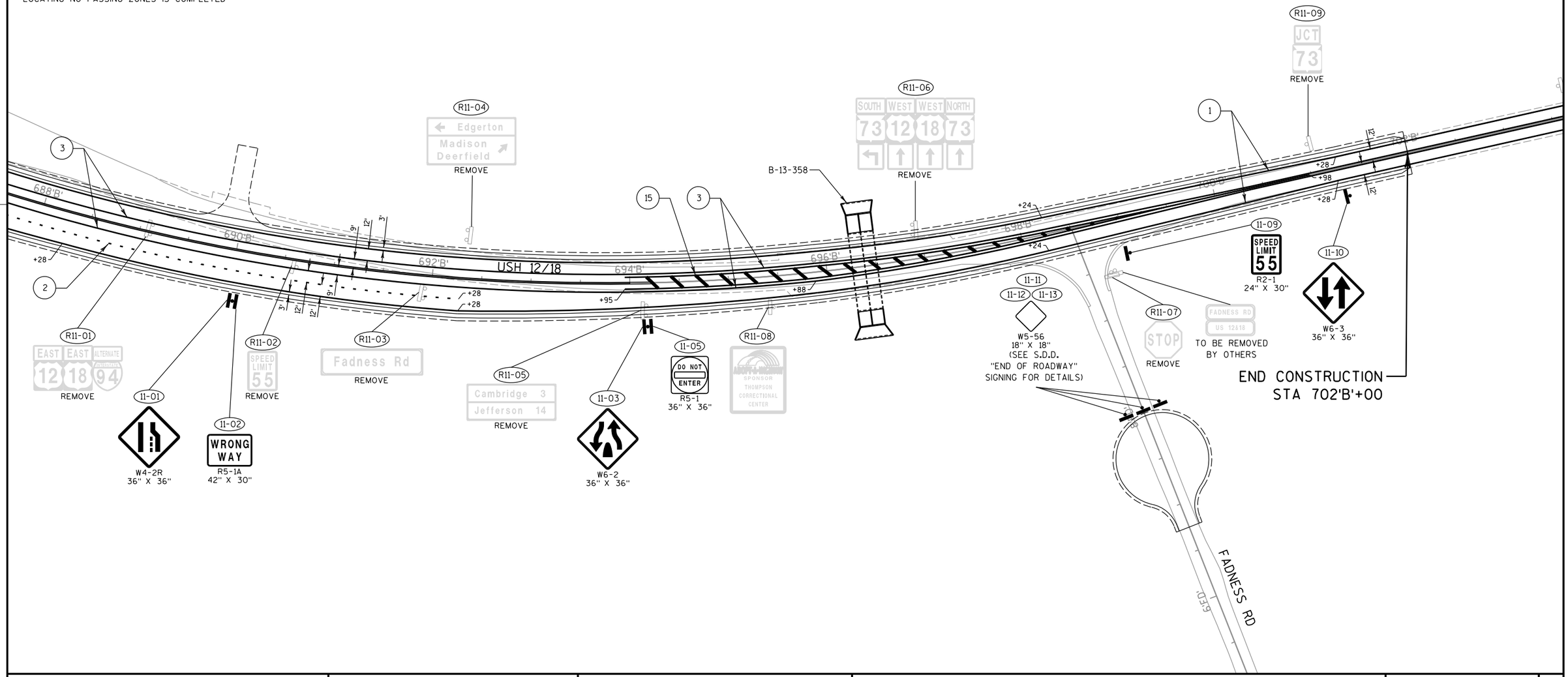
MULTIPLE POST MOUNTED SIGN (NEW)

XX-XX DENOTES SIGN NUMBER

R0-00 DENOTES REMOVAL NUMBER

NOTE

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 150	E

2

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE) (3'LINE, 9' SKIP)
3. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (YELLOW) (12.5'LINE, 37.5' SKIP)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
8. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) (3' LINE, 9' SKIP)
9. PAVEMENT MARKING WORDS EPOXY (WHITE)
10. PAVEMENT MARKING CURB EPOXY (YELLOW)
11. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
12. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
13. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) (25' C-C)
14. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (10' C-C)
15. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW) (25' C-C)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) (3' LINE, 9' SKIP)

POST MOUNTED SIGN (EXISTING)

MULTIPLE POST MOUNTED SIGN (EXISTING)

POST MOUNTED SIGN (NEW)

MULTIPLE POST MOUNTED SIGN (NEW)

XX-XX DENOTES SIGN NUMBER

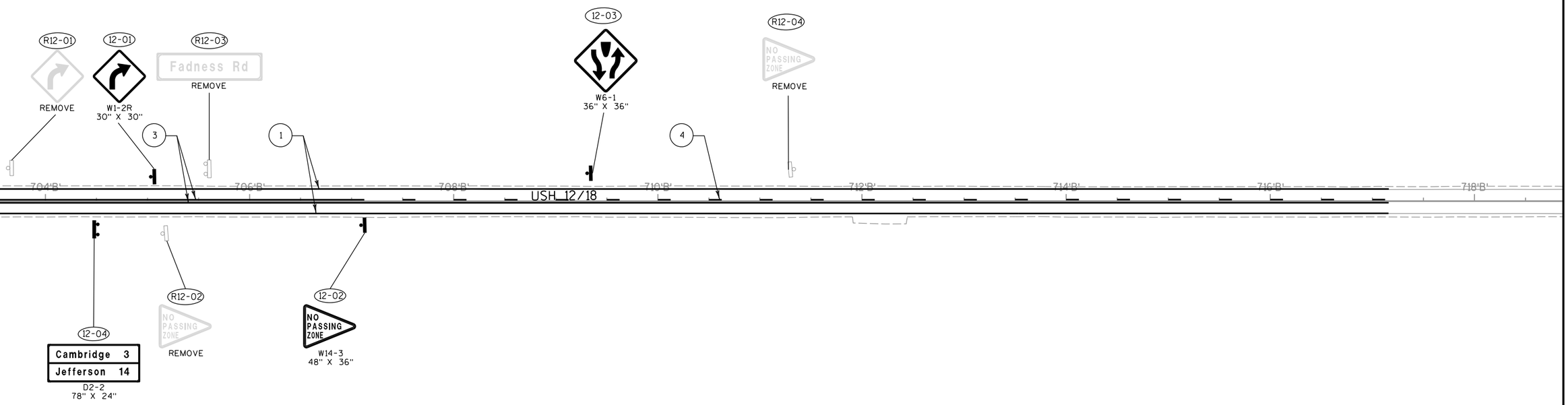
R0-00 DENOTES REMOVAL NUMBER

NOTE

FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS TO BE DETERMINED AFTER LOCATING NO PASSING ZONES IS COMPLETED

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2



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING AND PAVEMENT MARKING	SHEET 151	E

NOTES

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE TRAFFIC CONTROL PLAN, INCLUDING PRE- EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

* ADVANCED WARNING SIGNS FOR WIDTH RESTRICTIONS NO. 1 AND 2 TO BE REMOVED DURING STAGE 3 (CLOSURE OF STH 73 SOUTH LEG).

** ADVANCED WARNING SIGNS FOR WIDTH RESTRICTIONS NO. 6, 7 AND 8 TO BE REMOVED DURING STAGE 4 (CLOSURE OF STH 73 NORTH LEG).

CONSIDER GEOMETRICS WHEN LOCATING MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE BOARD FOR A MINIMUM OF 1000 FEET IN FRONT OF THE MESSAGE BOARD.

PLACE MESSAGE BOARDS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. PLACE SIGNS ON THE BACKSLOPE BEYOND THE DITCH WHEN LOCATED ALONG AN INTERSTATE. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ELEVATION OF THE ROADWAY. WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGNS MAY BE PLACED ON THE SHOULDER. THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINTENANCE CONSIDERATIONS. A TAPER OF REFLECTORIZED DRUMS OR BARRICADES SHOULD BE PLACED AHEAD OF PCMS PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY BARRIER.

PLACE TRAFFIC CONTROL SIGNS PCMS AND DISPLAY THE MESSAGE 10 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED CONSTRUCTION WORK. ADJUST THE MESSAGE DATE ACCORDINGLY.

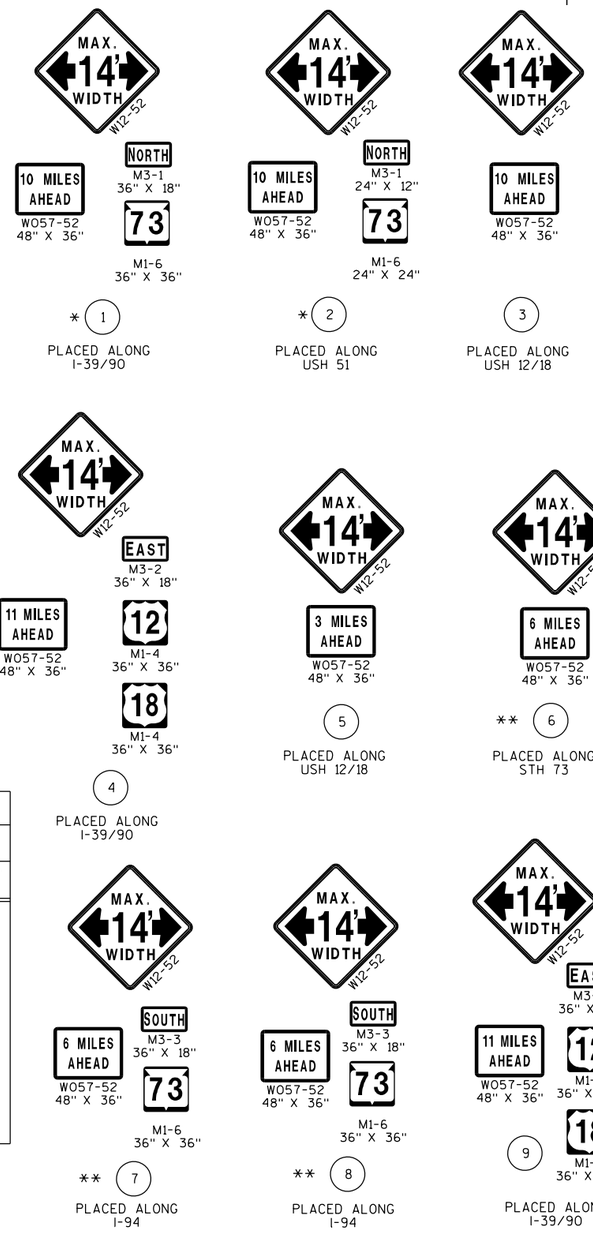
LEGEND

WORK ZONE

ADVANCED WARNING FOR LANE WIDTH RESTRICTIONS

PLACE THE FOLLOWING ADVANCED WARNING SIGNS AT THE DESIGNATED LOCATIONS DURING CONSTRUCTION ON STH 73 AND USH 12/18

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TRAFFIC CONTROL SIGNS PCMS MESSAGES						
	10 DAYS PRIOR TO CONSTRUCTION		STAGE 3 CONSTRUCTION		STAGE 4 CONSTRUCTION	
PCMS SIGN LOCATION	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)
A) USH 12/18 EB 1.5 MILES WEST OF STH 73 (NORTH LEG)	CONTACT THE SOUTHWEST REGION TRAFFIC TEAM LEADER FOR TRAFFIC CONTROL SIGNS PCMS MESSAGES					
B) STH 73 SB 1 MILE NORTH OF USH 12/18						
C) STH 73 NB 1.5 MILES SOUTH OF USH 12/18						
D) USH 12/18 WB 2 MILES EAST OF STH 73 (SOUTH LEG)						



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - LANE WIDTH RESTRICTIONS	SHEET 152	E

GENERAL NOTES FOR TRAFFIC CONTROL

1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES ARE TO BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

2) CONFLICTING TRAFFIC SIGNS ARE TO BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER. EXISTING SIGNS COVERED BY A PROPOSED TRAFFIC CONTROL SIGN OR TRAFFIC CONTROL DETOUR SIGN ARE PAID FOR AS TRAFFIC CONTROL SIGNS OR TRAFFIC CONTROL DETOUR SIGNS.

3) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER. HOWEVER, THE CONTRACTOR SHALL NOT USE FLAG PERSONS TO DIRECT, STOP OR CONTROL TRAFFIC ON USH 12/18 OR STH 73 OUTSIDE OF THE PERMITTED FLAGGING OPERATION TIMES.

4) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

5) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

6) FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C WARNING LIGHT.

7) ALL TYPE III BARRICADES SHALL BE EQUIP WITH TYPE "A" (LOW INTENSITY FLASHING) LIGHTS PER SDDS.

8) CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND PCMS SO THE DRIVER HAS A CLEAR VIEW OF THE PCMS FOR A MINIMUM OF 1500 FEET IN FRONT OF PCMS SIGN.

9) TRAFFIC CONTROL DEVICES NOT IN USE ARE TO BE LAID DOWN OR REMOVED, TURNING OF DEVICES TO OBSTRUCT THE MESSAGE WILL NOT BE ALLOWED.

10) STATION OFFSET CALL-OUTS TO CONCRETE BARRIER TEMPORARY PRECAST ARE TO THE CENTER OF THE BARRIER.

11) ALWAYS PROVIDE A MINIMUM OF 3' CLEAR FROM EDGE OF TRAVEL LANE TO THE TOE OF THE TEMPORARY PRECAST CONCRETE BARRIER.

12) SEE THE FOLLOWING SDDS TO SUPPLEMENT THE TRAFFIC CONTROL PLANS
"TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY ROAD OPEN TO TRAFFIC"
"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"
"TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)"
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"

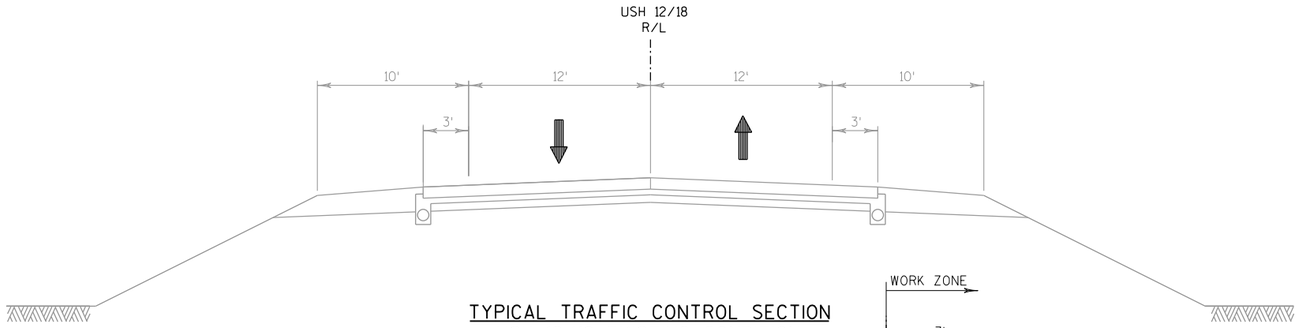
STAGE 1

MAINTENANCE OF TRAFFIC
-SHIFT TRAFFIC ON USH 12/18 3 FT TO THE NORTH IN ORDER TO MAINTAIN ONE LANE OF TRAFFIC AND 3 FT MINIMUM SHOULDERS IN EACH DIRECTION
-EXISTING STH 73 NORTH LEG AND STH 73 SOUTH LEG WILL REMAIN OPEN
-MAINTAIN LOCAL ACCESS AT ALL TIMES

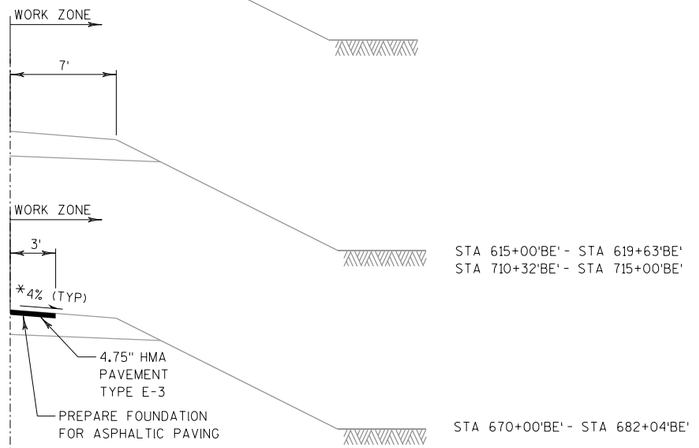
CONSTRUCTION TO BE COMPLETED
-PLACE TEMPORARY PAVEMENT ON EXISTING USH 12/18

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1 OVERVIEW	SHEET 153	E

2



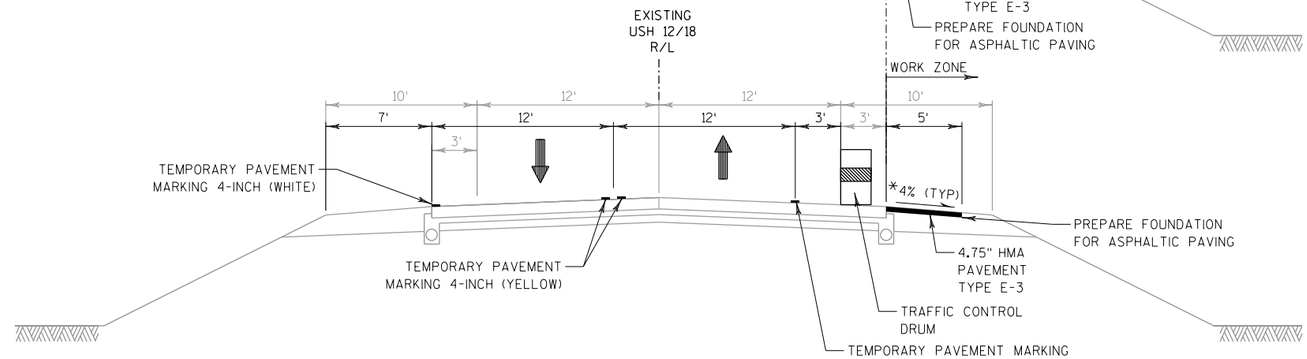
TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 EXISTING CONDITION
STA 615+00'BE' - STA 715+00'BE'



STA 615+00'BE' - STA 619+63'BE'
STA 710+32'BE' - STA 715+00'BE'

STA 670+00'BE' - STA 682+04'BE'

STA 619+63'BE' - STA 622+65'BE'
STA 656+75'BE' - STA 658+17'BE'
STA 668+29'BE' - STA 670+00'BE'
STA 688+10'BE' - STA 691+38'BE'



TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 1
STA 615+00'BE' - STA 715+00'BE'

NOTE

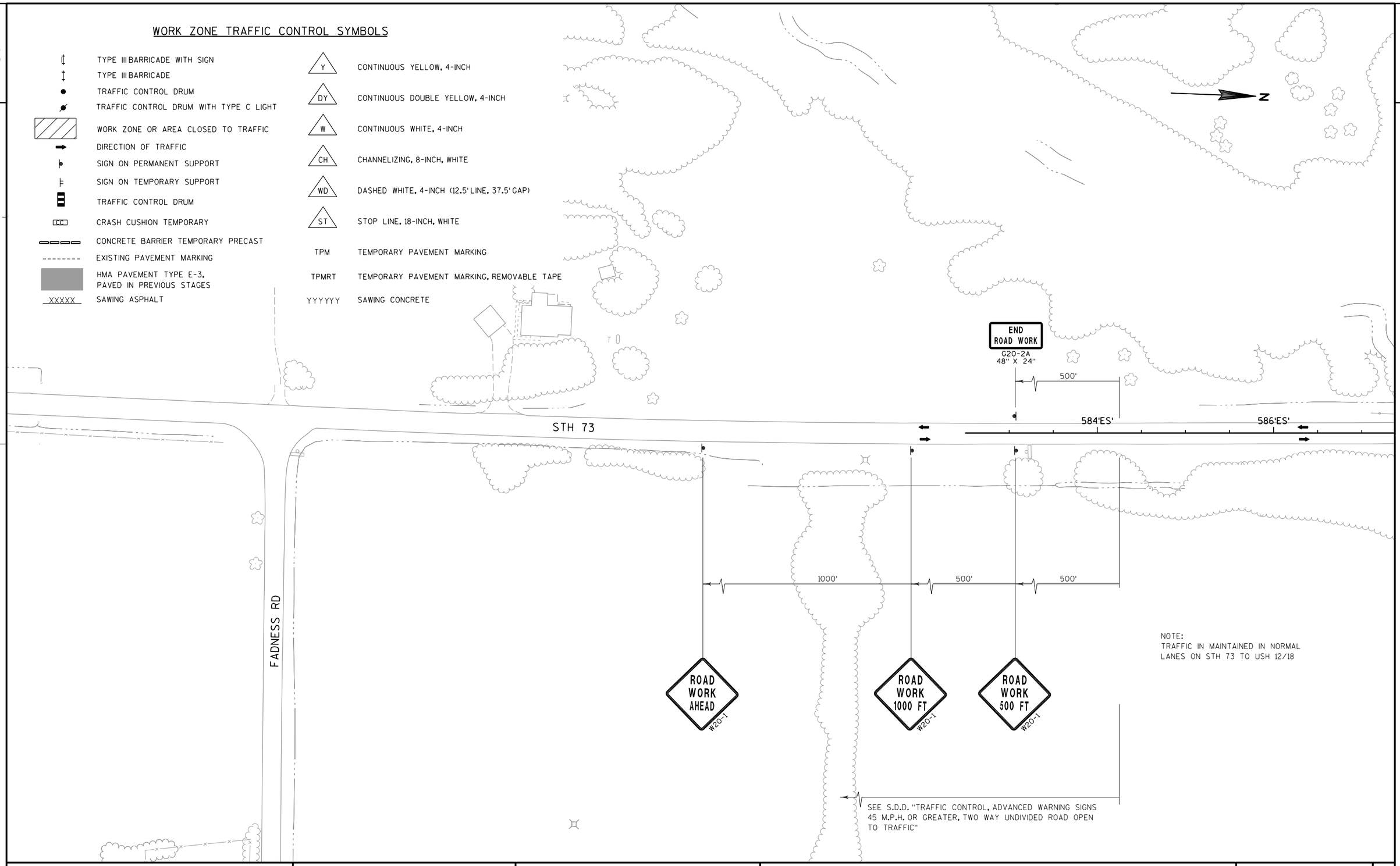
*CROSS SLOPE MAY VARY DUE TO SUPER ELEVATIONS. MATCH EXISTING ROADWAY TO SUPER ELEVATION.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION	SHEET 154	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 - STH 73	SHEET 155	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025103_tc_S1.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WORK ZONE TRAFFIC CONTROL SYMBOLS

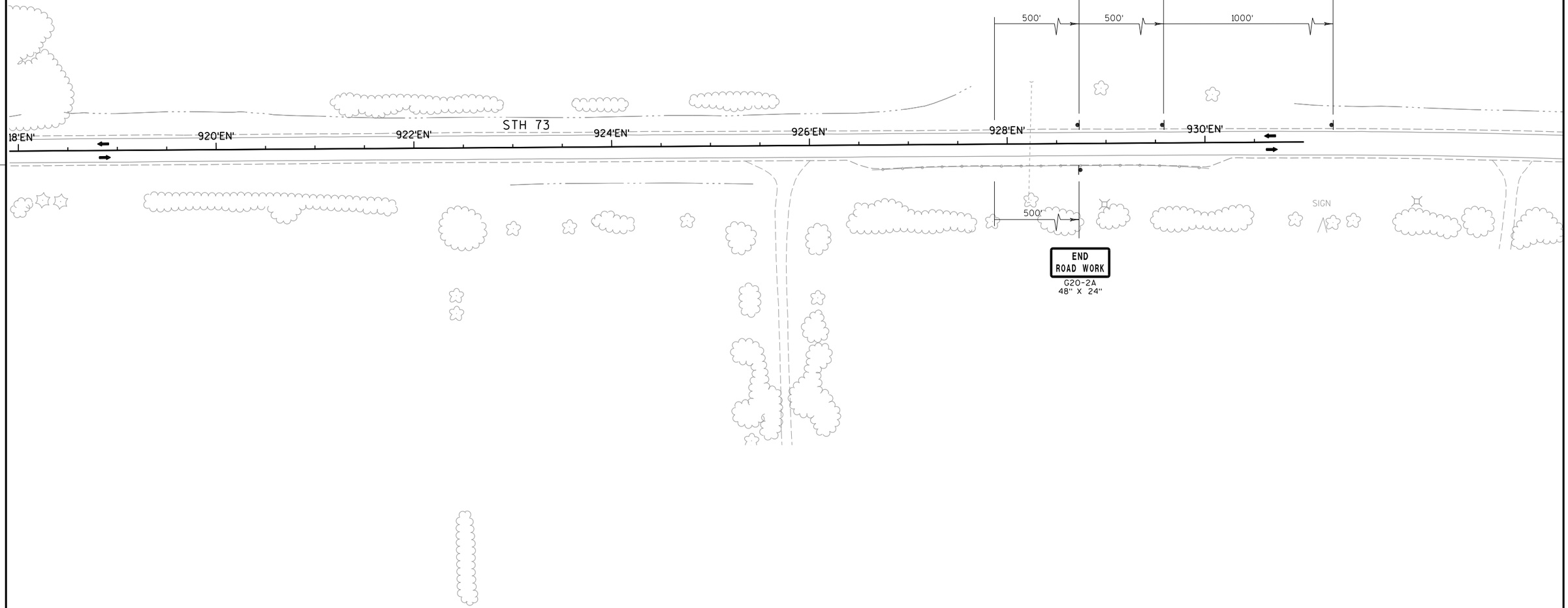
	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
--------	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

NOTE:
TRAFFIC IN MAINTAINED IN NORMAL LANES ON STH 73 TO USH 12/18

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SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"



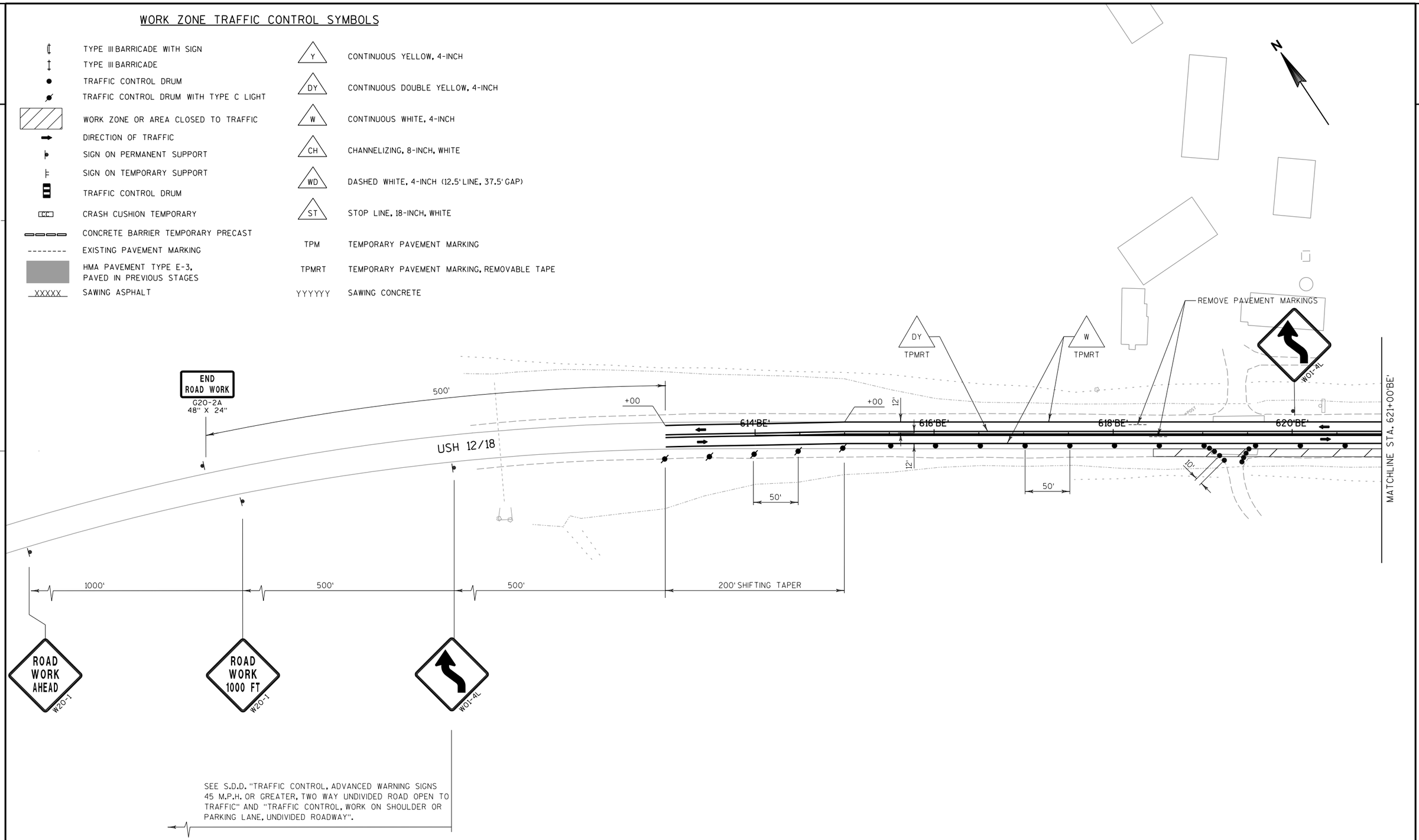
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 - STH 73	SHEET 156 E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025106_tc_S1.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE



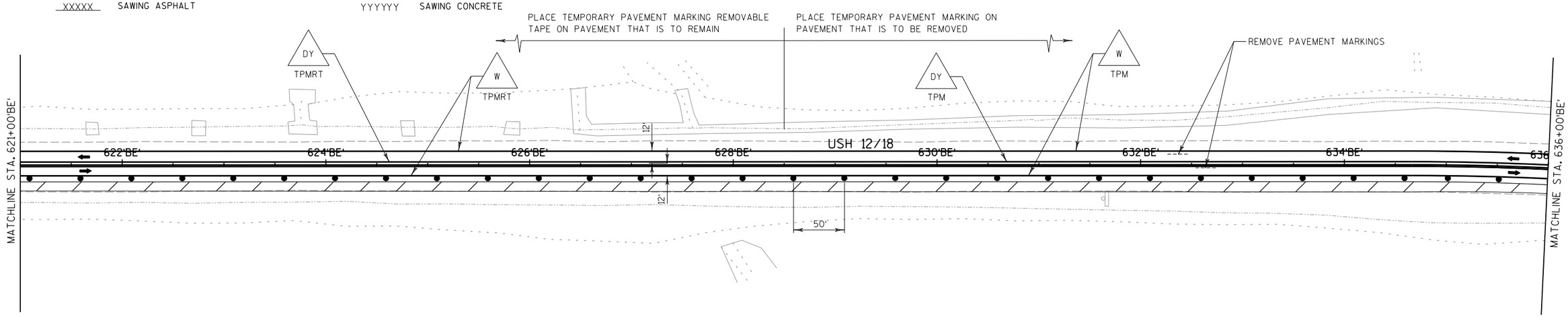
SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 - USH 12/18	SHEET 157	E

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
	YYYYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 - USH 12/18	SHEET 158 E

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WISDOT/CADDS SHEET 42

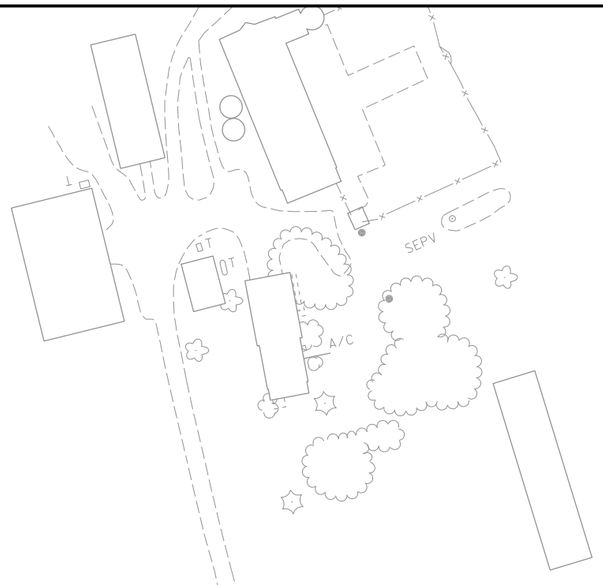
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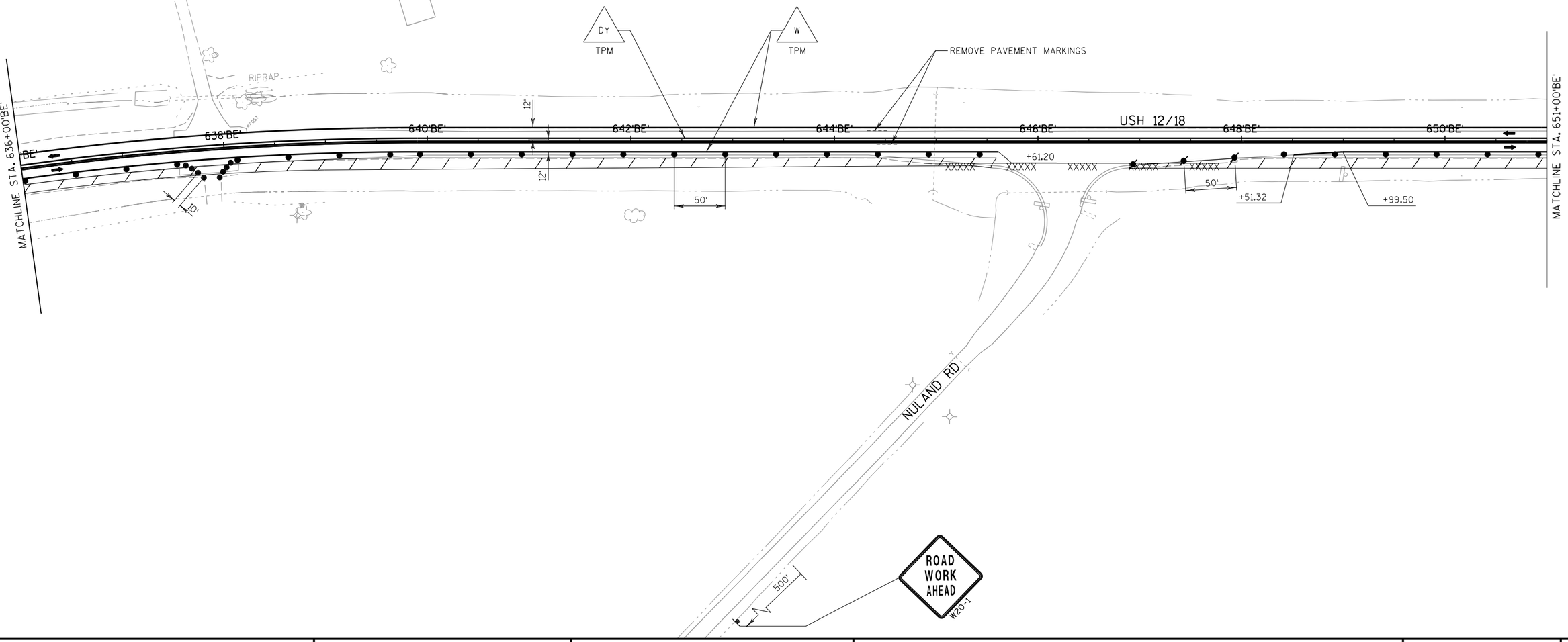
WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE

N

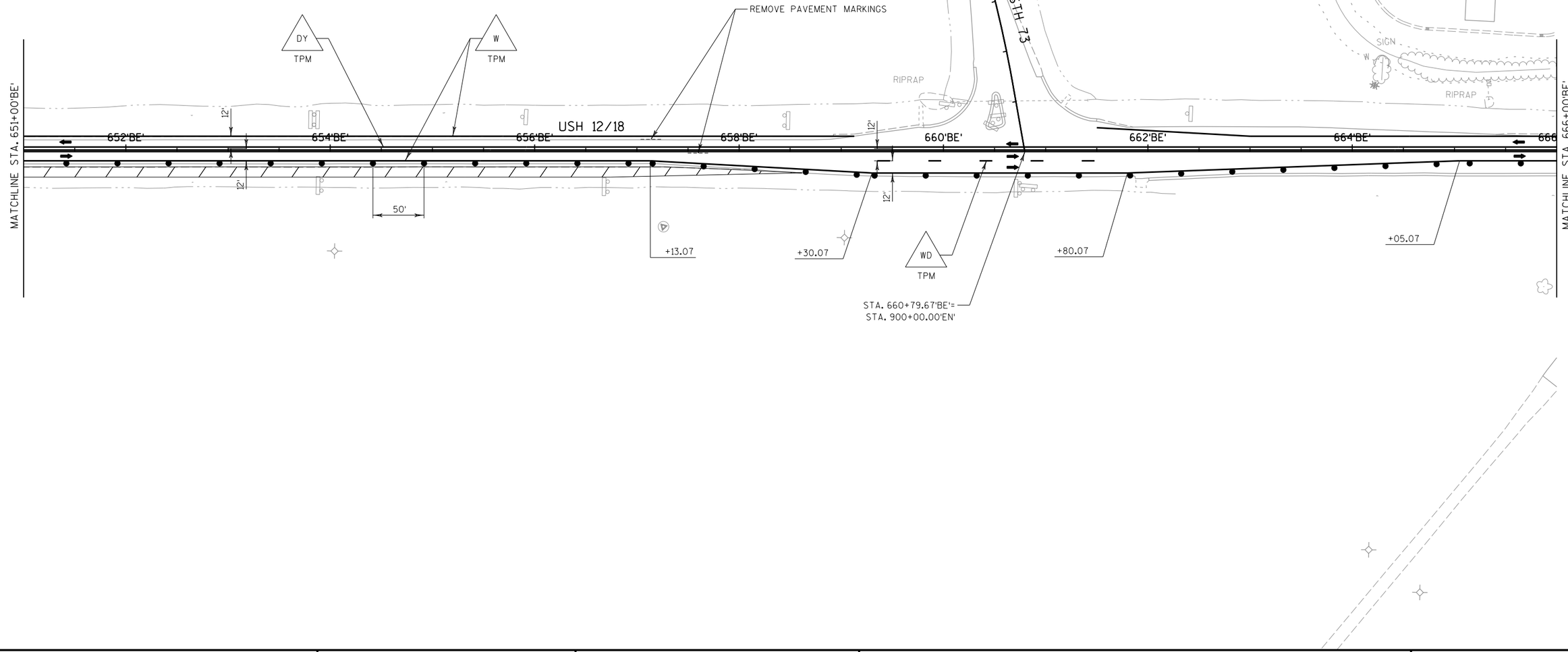




PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 - USH 12/18	SHEET 159	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
	YYYYYY SAWING CONCRETE



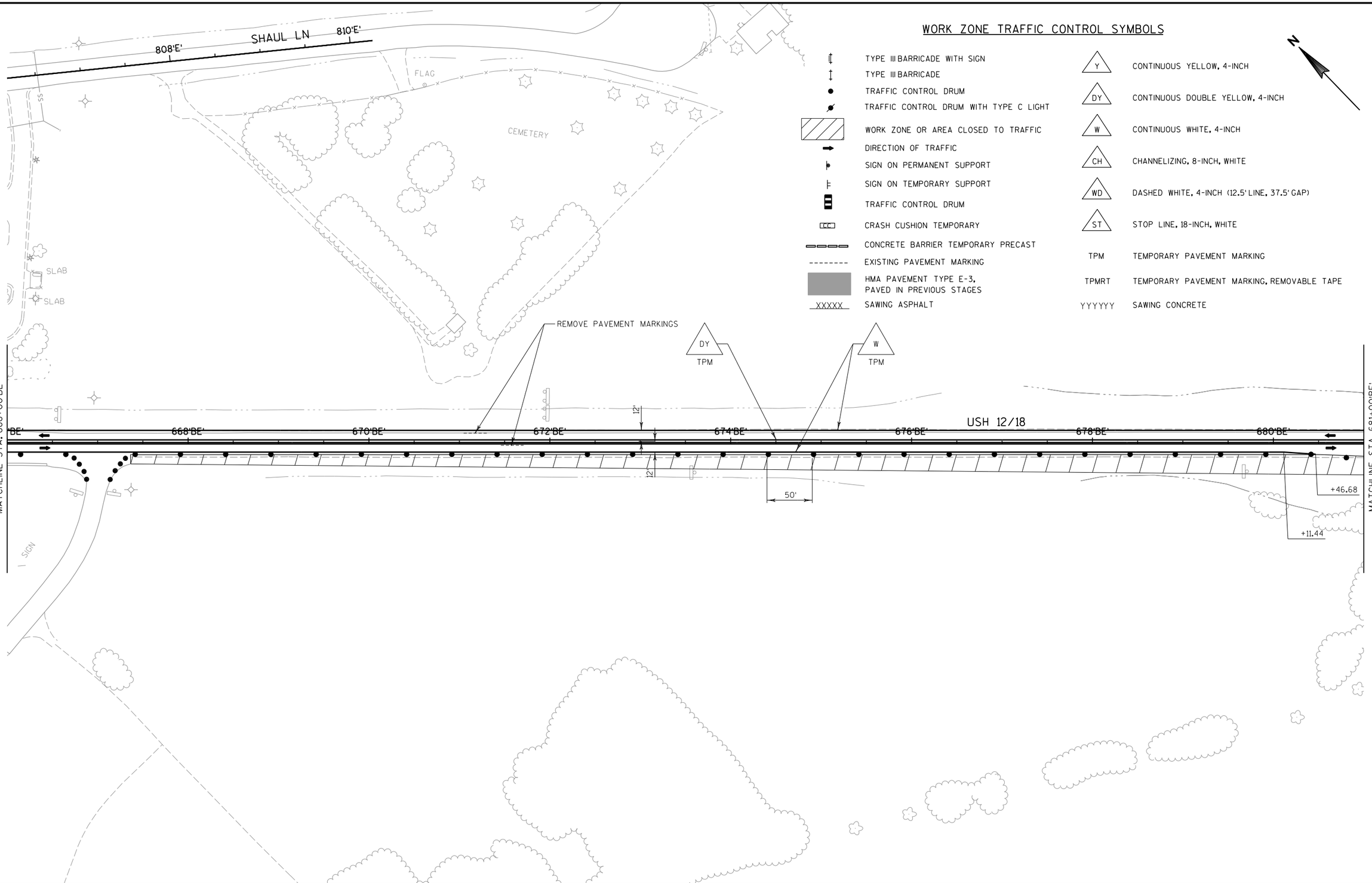
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 - USH 12/18	SHEET 160	E

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE

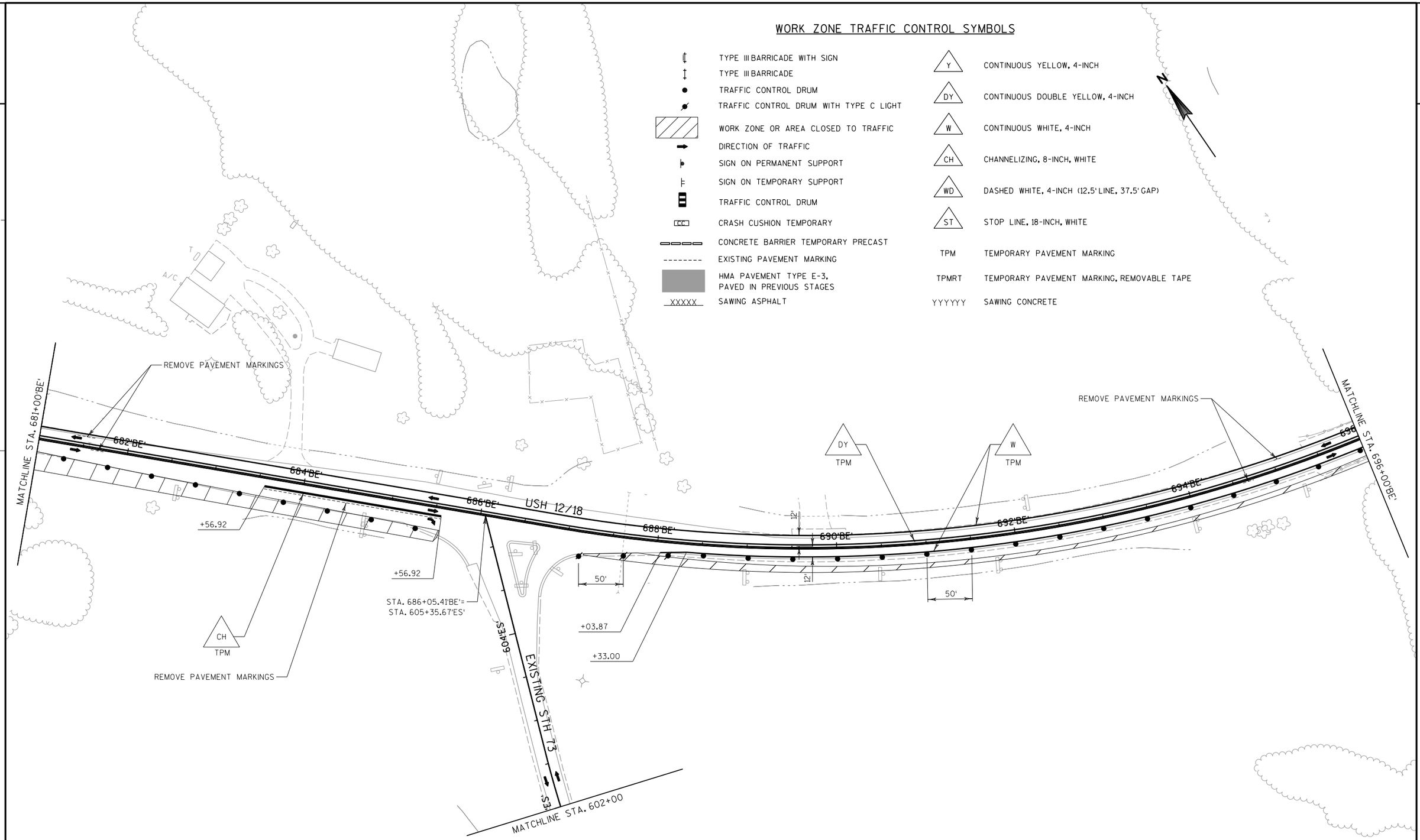


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 - USH 12/18	SHEET 161	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 - USH 12/18	SHEET 162	E

2

N

PLACE TEMPORARY PAVEMENT MARKING ON PAVEMENT THAT IS TO BE REMOVED

PLACE TEMPORARY PAVEMENT MARKING REMOVABLE TAPE ON PAVEMENT THAT IS TO REMAIN

DY TPM

W TPM

DY TPMRT

W TPMRT

REMOVE PAVEMENT MARKINGS

B-13-358

MATCHLINE STA. 696+00'BE'

'BE'

698'BE'

700'BE'

702'BE'

704'BE'

706'BE'

708'BE'

710'BE'

USH 12/18

MATCHLINE STA. 711+00'BE'

12'

12'

XXXXX

XXXXX

XXXXX

XX

50'

50'

+67.08

+00.60

+27.70

500'

FADNESS RD

ROAD WORK AHEAD

W20-1

W01-4R

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
CCC	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
--------	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 - USH 12/18	SHEET 163	E

2

N

SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

ROAD WORK 500 FT W20-1

ROAD WORK 1000 FT W20-1

ROAD WORK AHEAD W20-1

500'

1000'

REMOVE PAVEMENT MARKINGS

DY TPMRT

W TPMRT

USH 12/18

712'BE' 714'BE' 716'BE' 718'BE' 720'BE' 722'BE'

12'

12'

MATCHLINE STA. 711+00'BE'

50'

200' SHIFTING TAPER

500'

+00

+00

END ROAD WORK G20-2A 48" X 24"

CLEAR VIEW RD

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN	Y	CONTINUOUS YELLOW, 4-INCH
	TYPE III BARRICADE	DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
	TRAFFIC CONTROL DRUM	W	CONTINUOUS WHITE, 4-INCH
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	CH	CHANNELIZING, 8-INCH, WHITE
	WORK ZONE OR AREA CLOSED TO TRAFFIC	WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	DIRECTION OF TRAFFIC	ST	STOP LINE, 18-INCH, WHITE
	SIGN ON PERMANENT SUPPORT	TPM	TEMPORARY PAVEMENT MARKING
	SIGN ON TEMPORARY SUPPORT	TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
	TRAFFIC CONTROL DRUM	YYYYYY	SAWING CONCRETE
	CRASH CUSHION TEMPORARY		
	CONCRETE BARRIER TEMPORARY PRECAST		
--------	EXISTING PAVEMENT MARKING		
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES		
XXXXX	SAWING ASPHALT		

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 1 - USH 12/18	SHEET 164	E

STAGE 2

MAINTENANCE OF TRAFFIC

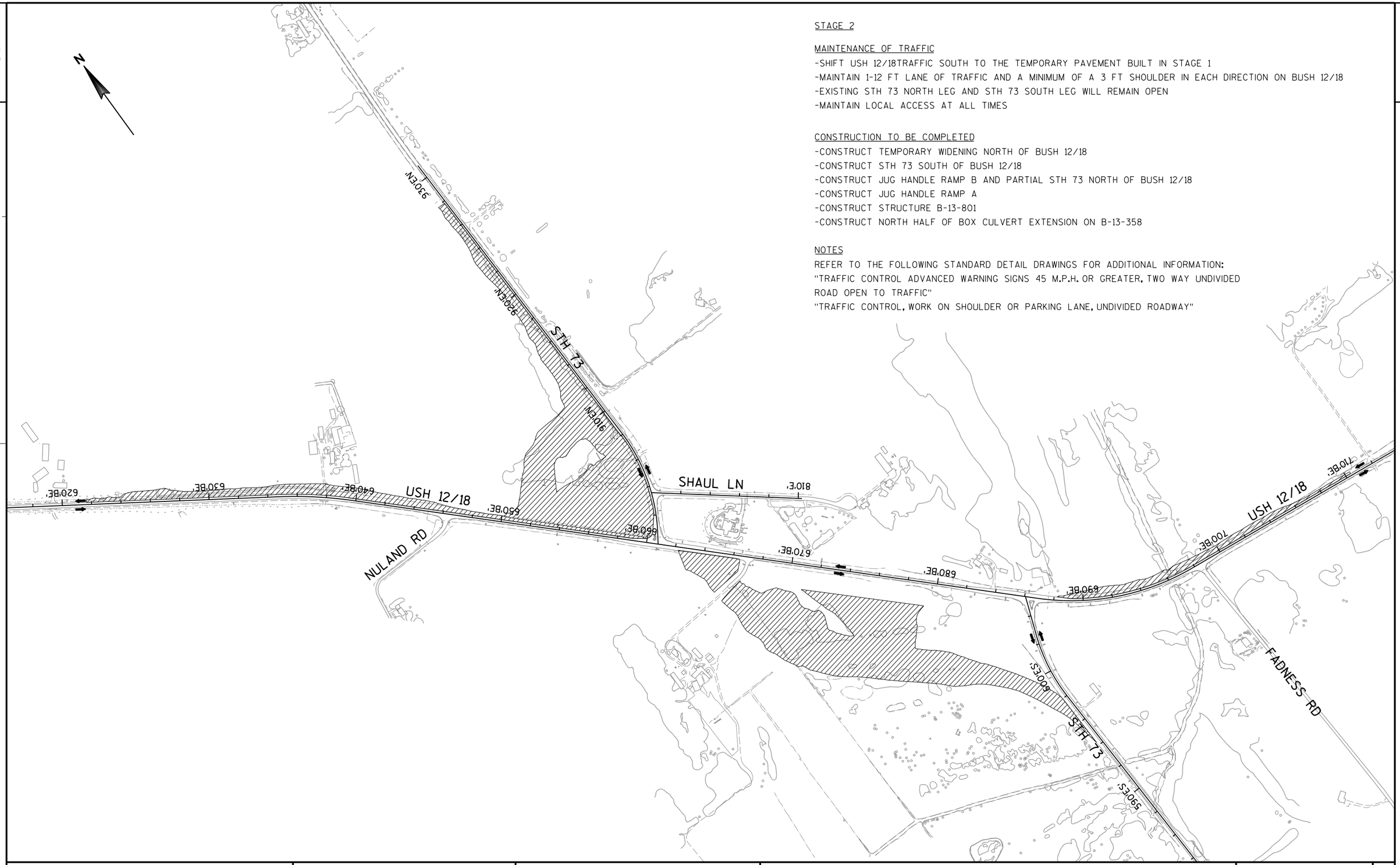
-SHIFT USH 12/18TRAFFIC SOUTH TO THE TEMPORARY PAVEMENT BUILT IN STAGE 1
-MAINTAIN 1-12 FT LANE OF TRAFFIC AND A MINIMUM OF A 3 FT SHOULDER IN EACH DIRECTION ON BUSH 12/18
-EXISTING STH 73 NORTH LEG AND STH 73 SOUTH LEG WILL REMAIN OPEN
-MAINTAIN LOCAL ACCESS AT ALL TIMES

CONSTRUCTION TO BE COMPLETED

-CONSTRUCT TEMPORARY WIDENING NORTH OF BUSH 12/18
-CONSTRUCT STH 73 SOUTH OF BUSH 12/18
-CONSTRUCT JUG HANDLE RAMP B AND PARTIAL STH 73 NORTH OF BUSH 12/18
-CONSTRUCT JUG HANDLE RAMP A
-CONSTRUCT STRUCTURE B-13-801
-CONSTRUCT NORTH HALF OF BOX CULVERT EXTENSION ON B-13-358

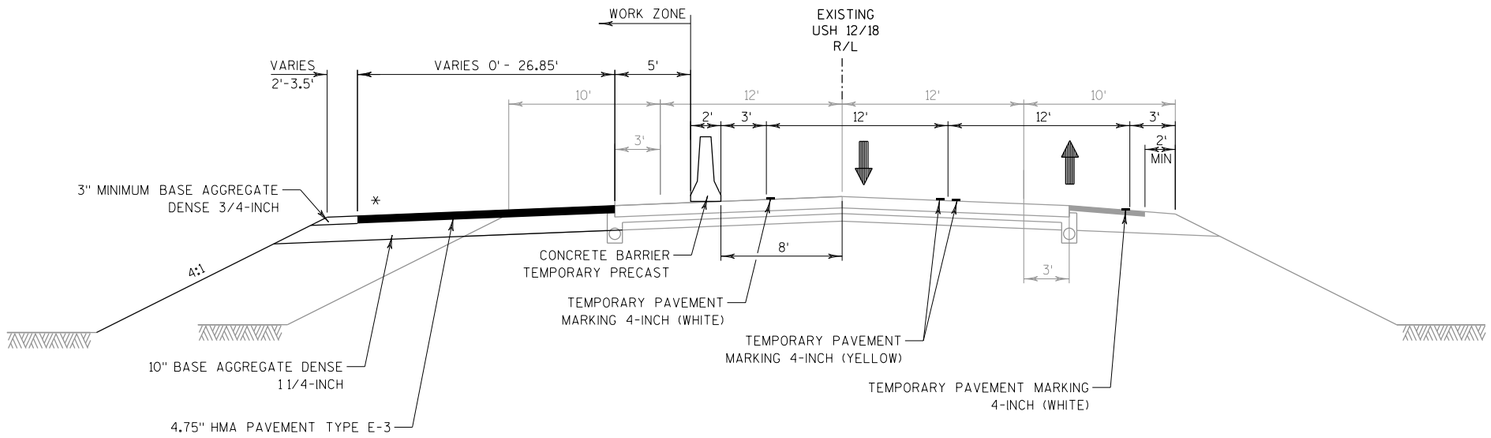
NOTES

REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"
"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2 OVERVIEW	SHEET 165	E

2



TYPICAL TRAFFIC CONTROL SECTION

USH 12/18 STAGE 2

STA 618+45'BE' - STA 660+94'BE'

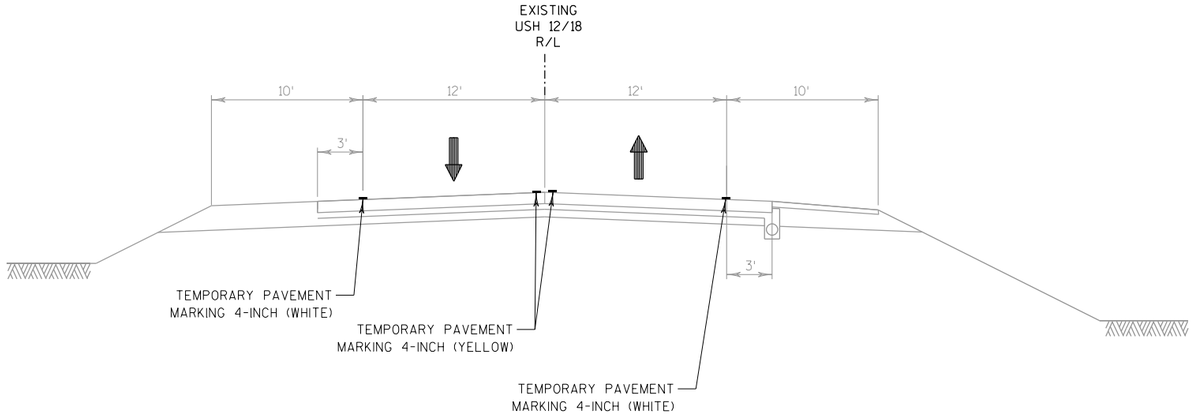
STA 687+14'BE' - STA 711+69'BE'

NOTES

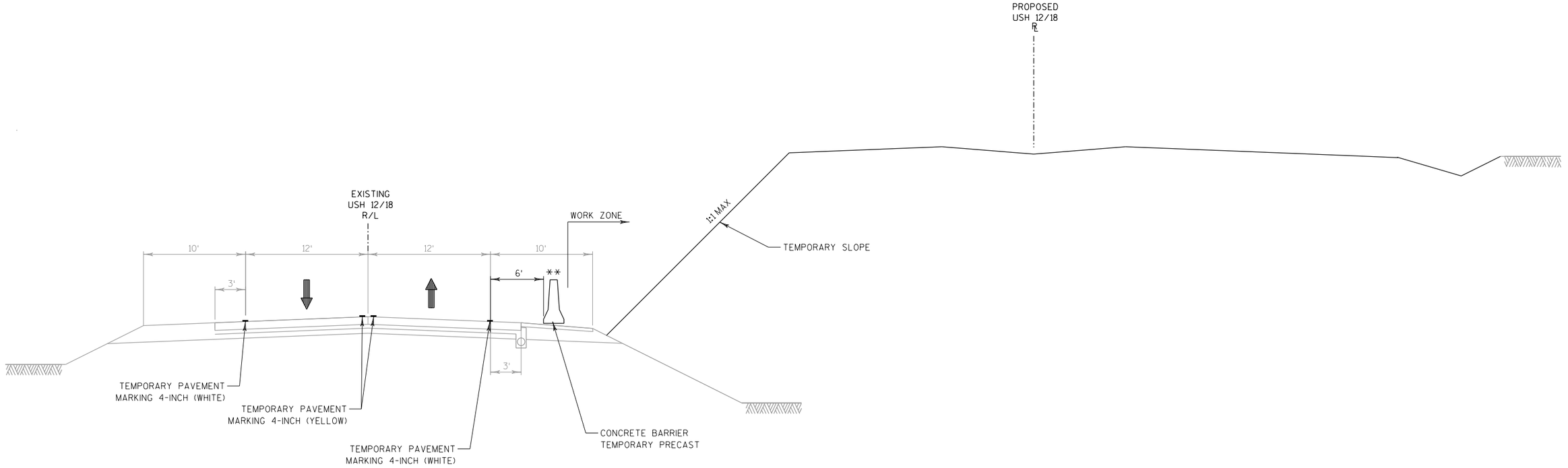
*SEE CROSS SECTIONS FOR WIDTHS AND SLOPE IN AREAS OF TEMPORARY WIDENING

REMOVE TEMPORARY WIDENING AND RESTORE THE SLOPE TO ITS ORIGINAL CONDITION IN STAGE 4.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION	SHEET 166	E



TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 2
STA 666+45'BE' - STA 687+14'BE'



TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 2
STA 660+94'BE' - STA 666+45'BE'

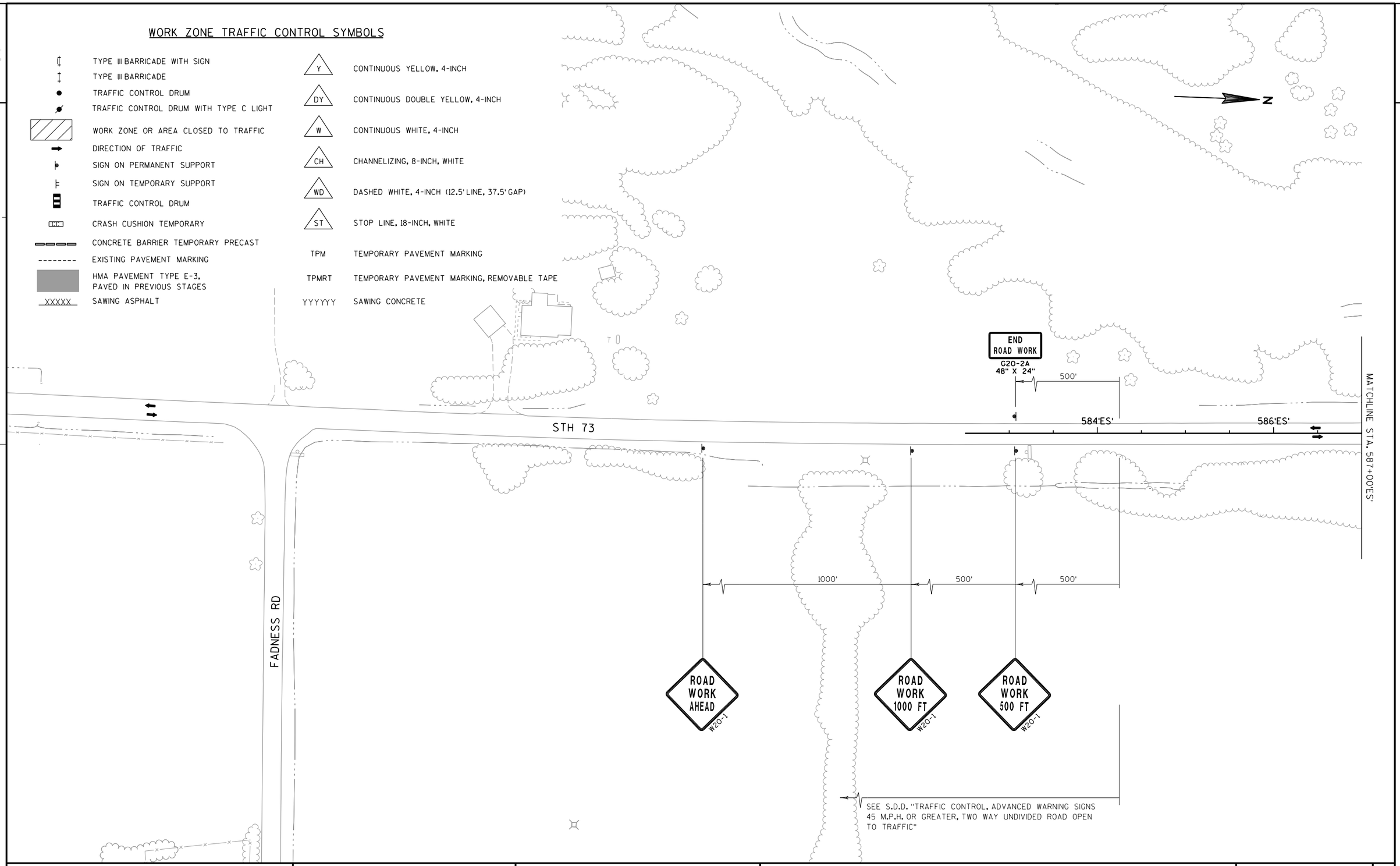
NOTE

** SEE TRAFFIC CONTROL PLAN SHEETS FOR LOCATION OF CONCRETE BARRIER TEMPORARY PRECAST

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
--------	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE



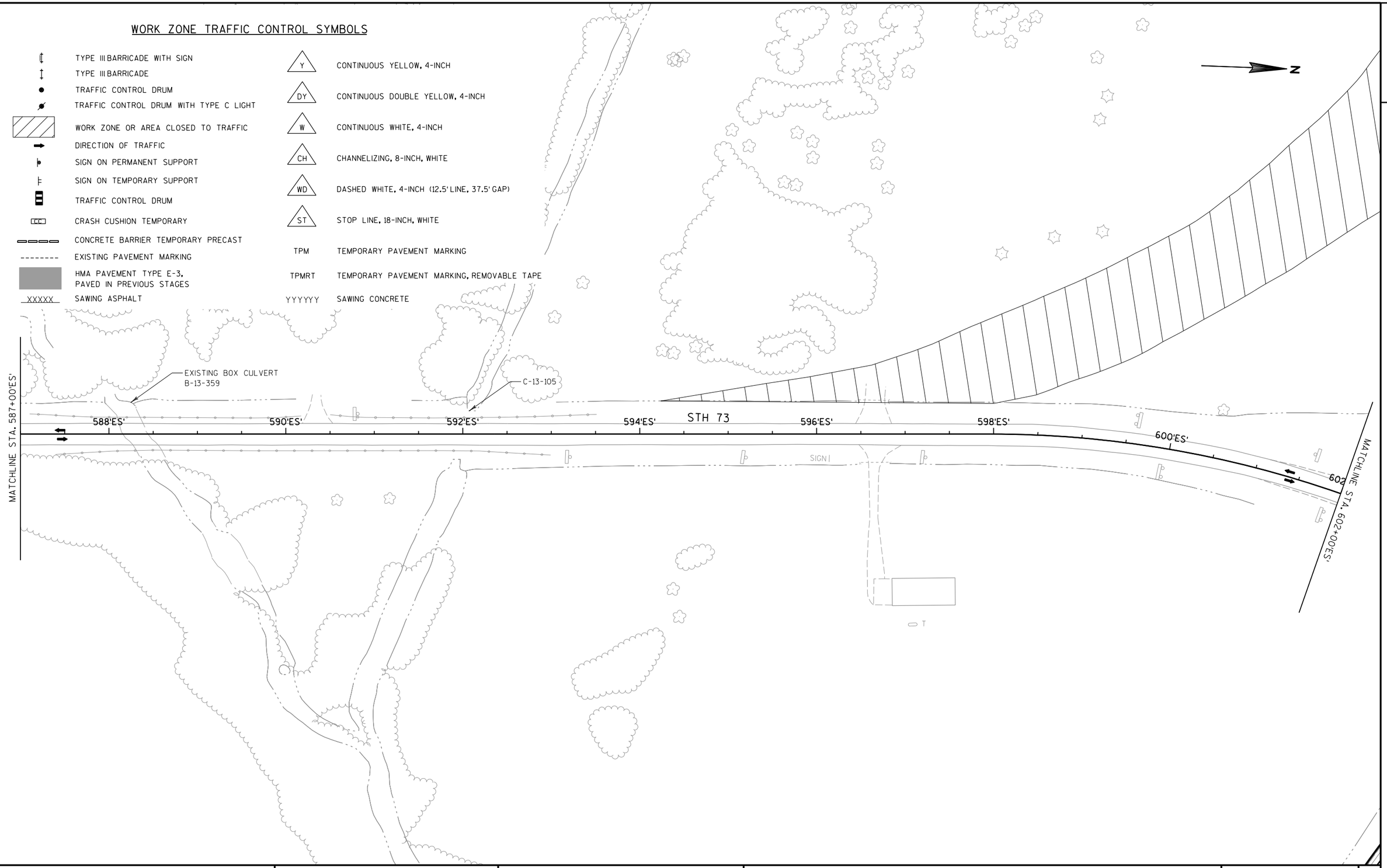
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - STH 73	SHEET 168 E

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - STH 73	SHEET 169	E

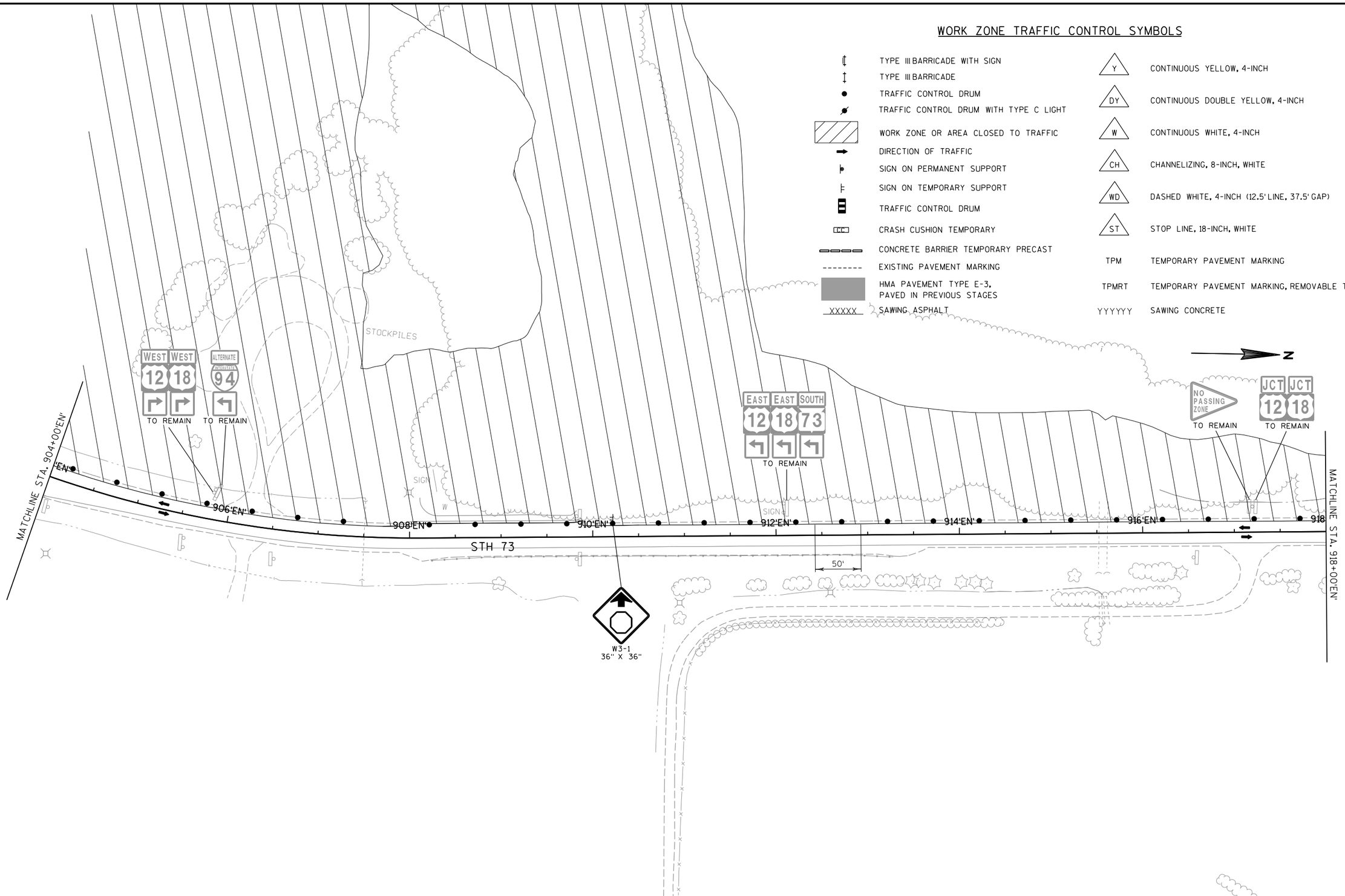
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WISDOT/CADDS SHEET 42

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN	Y	CONTINUOUS YELLOW, 4-INCH
	TYPE III BARRICADE	DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
	TRAFFIC CONTROL DRUM	W	CONTINUOUS WHITE, 4-INCH
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	CH	CHANNELIZING, 8-INCH, WHITE
	WORK ZONE OR AREA CLOSED TO TRAFFIC	WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	DIRECTION OF TRAFFIC	ST	STOP LINE, 18-INCH, WHITE
	SIGN ON PERMANENT SUPPORT	TPM	TEMPORARY PAVEMENT MARKING
	SIGN ON TEMPORARY SUPPORT	TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
	TRAFFIC CONTROL DRUM	YYYYYY	SAWING CONCRETE
	CRASH CUSHION TEMPORARY		
	CONCRETE BARRIER TEMPORARY PRECAST		
	EXISTING PAVEMENT MARKING		
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES		
XXXXX	SAWING ASPHALT		



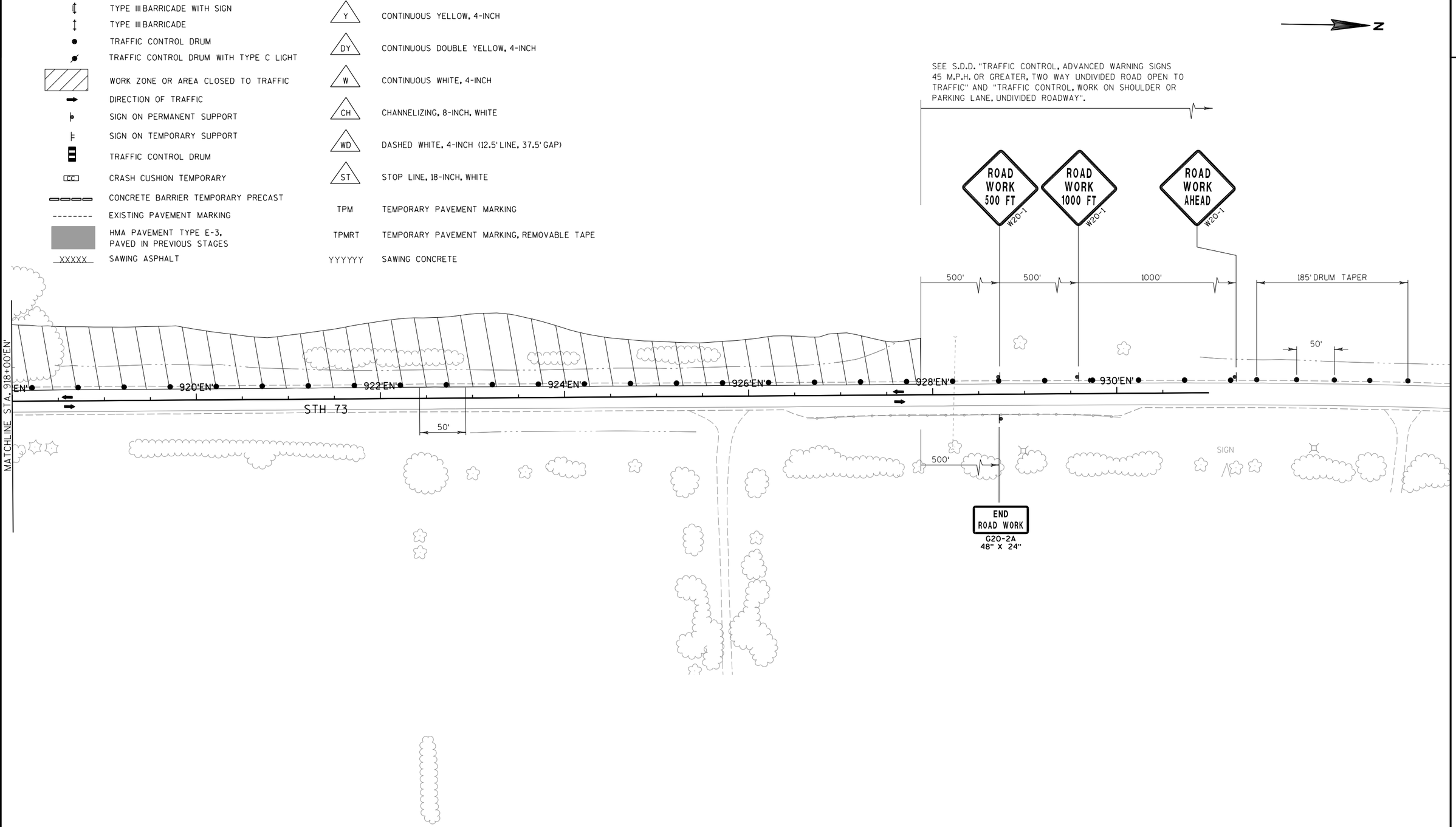
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - STH 73	SHEET 170	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	YYYYY SAWING CONCRETE
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE

N

SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".

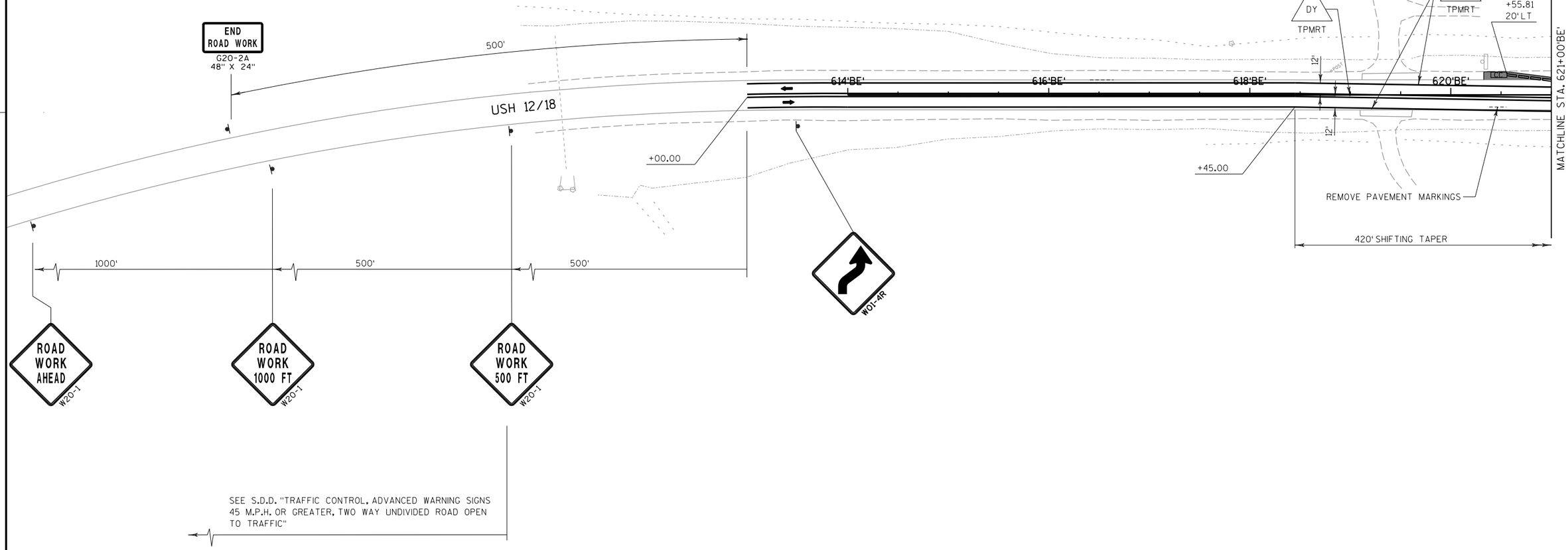


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - STH 73	SHEET 171	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE

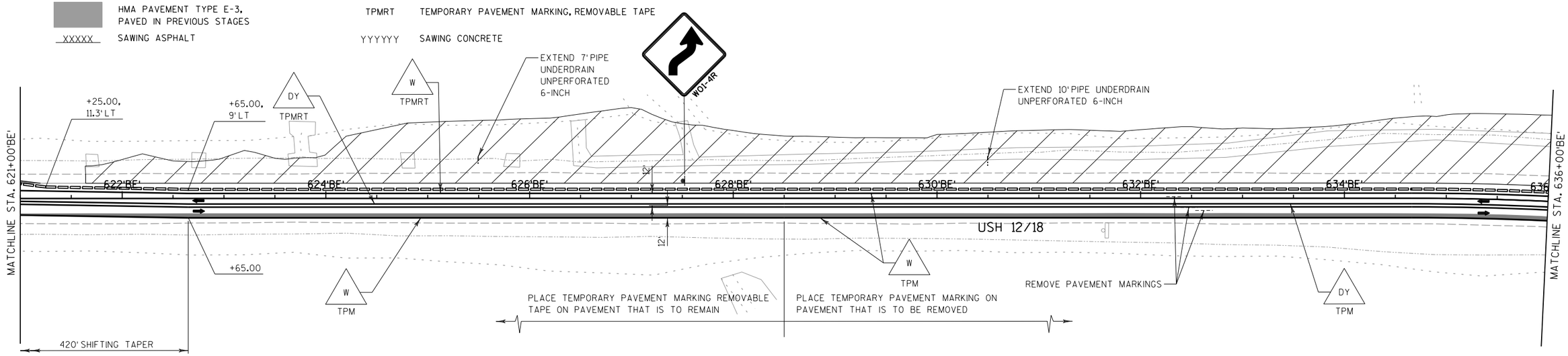


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - USH 12/18	SHEET 172	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - USH 12/18	SHEET 173	E

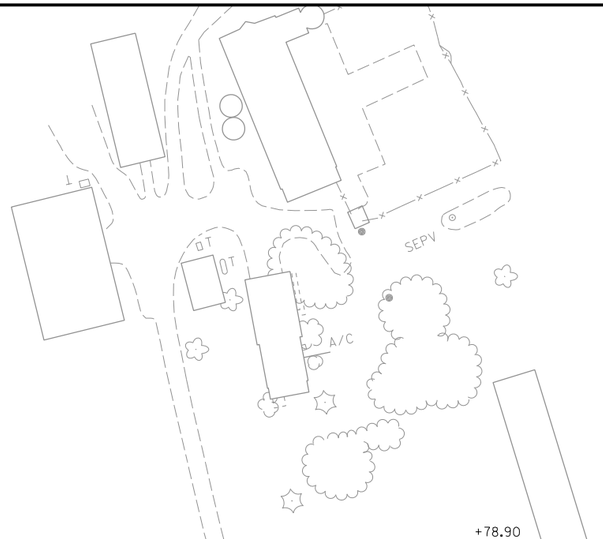
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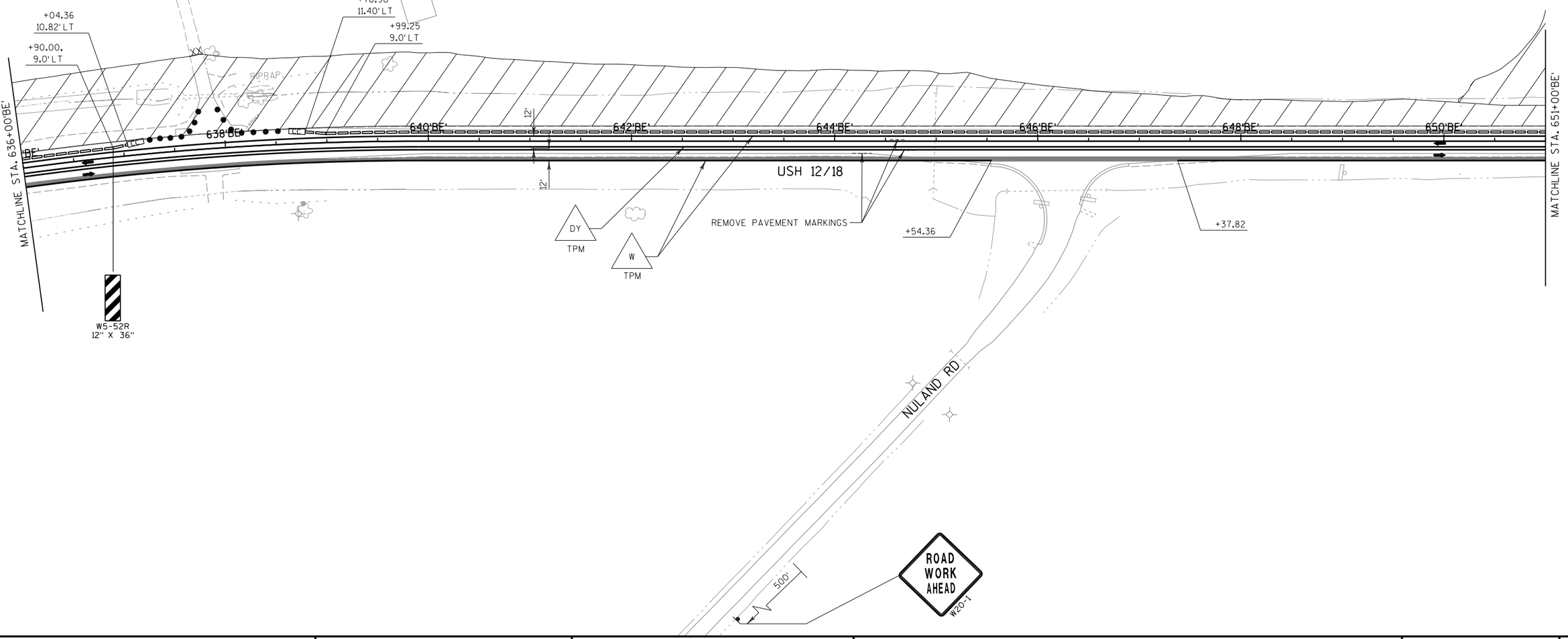
WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

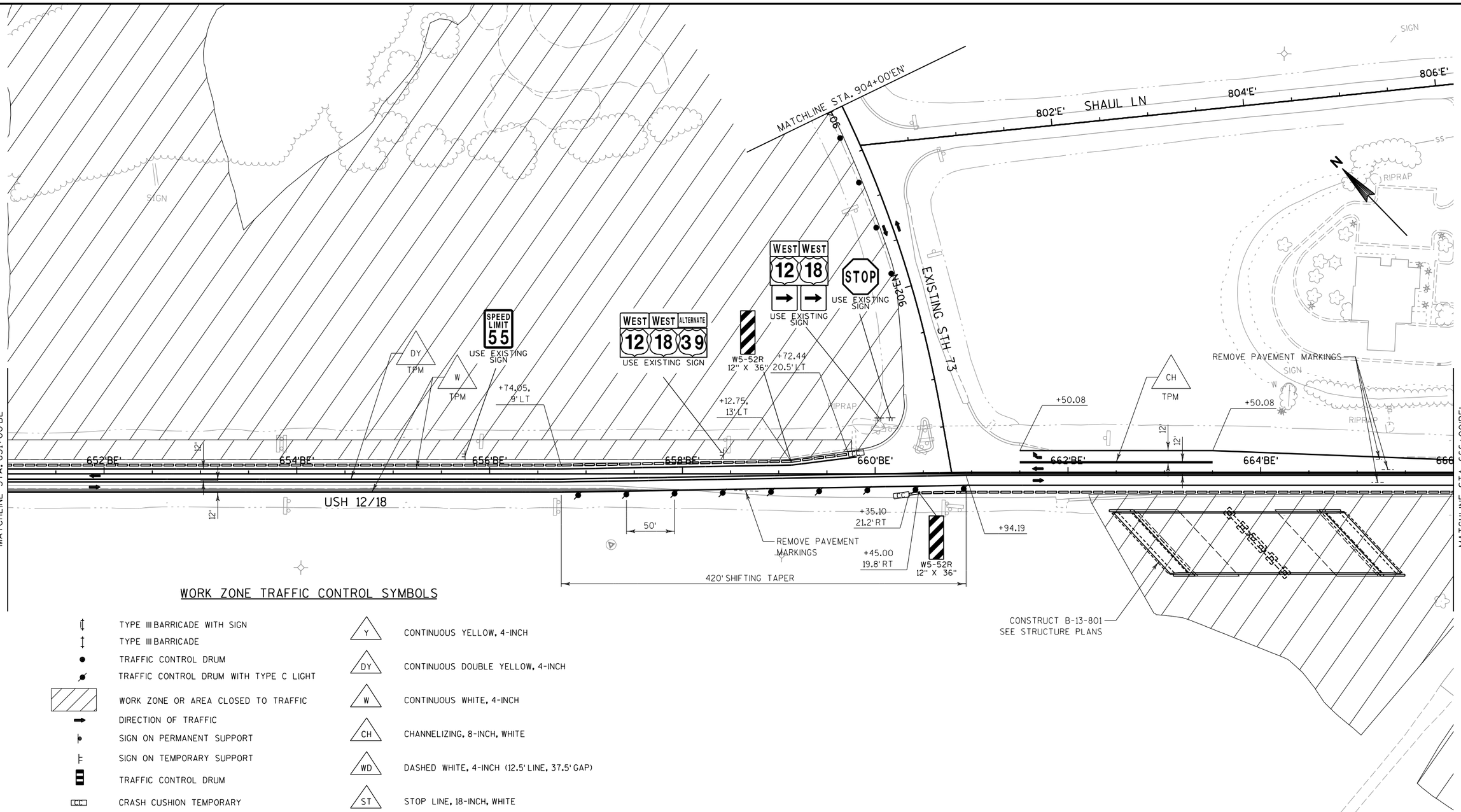
- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE

N





PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - USH 12/18	SHEET 174	E



WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
SAWING ASPHALT	XXXXX
CONTINUOUS YELLOW, 4-INCH	Y
CONTINUOUS DOUBLE YELLOW, 4-INCH	DY
CONTINUOUS WHITE, 4-INCH	W
CHANNELIZING, 8-INCH, WHITE	CH
DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)	WD
STOP LINE, 18-INCH, WHITE	ST
TEMPORARY PAVEMENT MARKING	TPM
TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE	TPMRT
SAWING CONCRETE	YYYYYY

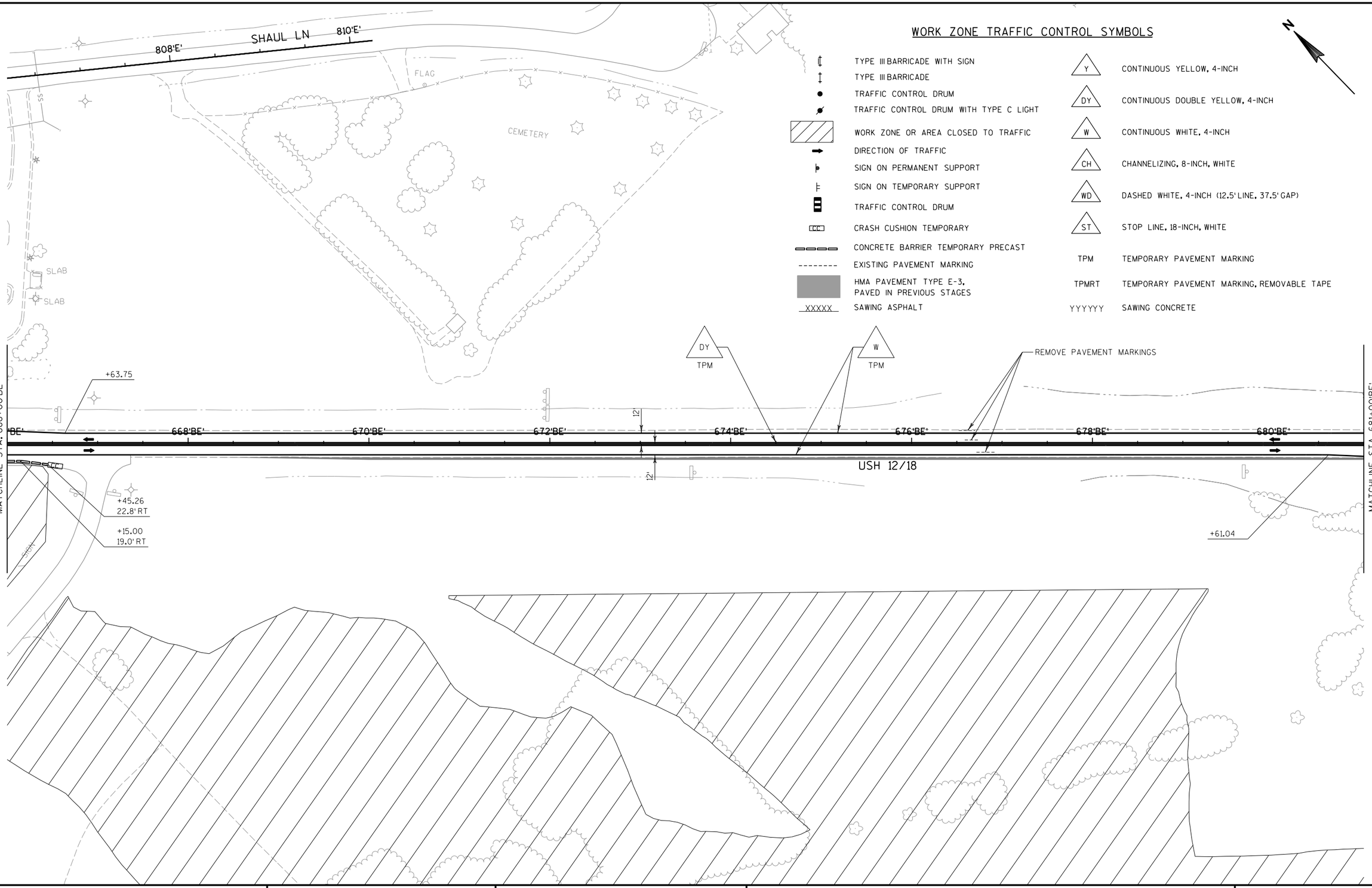
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - USH 12/18	SHEET 175	E

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - USH 12/18	SHEET 176	E

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE

MATCHLINE STA. 681+00'BE'

682'BE'

684'BE'

686'BE'

688'BE'

690'BE'

692'BE'

694'BE'

696'BE'

MATCHLINE STA. 696+00'BE'

REMOVE PAVEMENT MARKINGS

USH 12/18

12'

+56.92

+56.92

W01-4R

CH
TPM

+13.67
BEGIN TAPER

+31.74,
20.81' LT

+07.18,
13.06' LT

+49.36
41.26' LT
EL=860.61

50' CULVERT PIPE
TEMPORARY 24-INCH

+00.66
42.69' LT
EL=859.48

1590.00' RAD.
STA 695+50.86'BE'
1583.00' O/S

DY
TPM

W
TPM

+51.12
7' RT
END TAPER

REMOVE PAVEMENT MARKINGS

604'ES

EXISTING STH 73

MATCHLINE STA. 602+00

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - USH 12/18	SHEET 177	E

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE

N

EXTEND B-13-358 TO THE NORTH
SEE STRUCTURE PLANS

1641.40' RAD.
STA 686+87.80'BE'
1634.39' O/S

PLACE TEMPORARY PAVEMENT MARKING ON PAVEMENT THAT IS TO BE REMOVED

PLACE TEMPORARY PAVEMENT MARKING REMOVABLE TAPE ON PAVEMENT THAT IS TO REMAIN

EXTEND 13' PIPE UNDERDRAIN UNPERFORATED 6-INCH (2-PIPES)

W TPM

DY TPM

JCT 73
USE EXISTING SIGN

EXTEND 15' PIPE UNDERDRAIN UNPERFORATED 6-INCH

W01-4R

EXTEND 8' PIPE UNDERDRAIN UNPERFORATED 6-INCH

DY TPMRT

W5-52R
12" X 36"

+49.28
9' LT

W TPMRT

+41.10
13.87' LT

MATCHLINE STA. 696+00'BE'

MATCHLINE STA. 711+00'BE'

698'BE' 700'BE' 702'BE' 704'BE' 706'BE' 708'BE' 710'BE'

12'

USH 12/18

+53.65

+82.04

+36.97

REMOVE PAVEMENT MARKINGS

W TPM

420' SHIFTING TAPER

FADNESS RD

500'

W01-4L

ROAD WORK AHEAD
W20-1

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - USH 12/18	SHEET 178	E

2

N

SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

ROAD WORK 500 FT W20-1

ROAD WORK 1000 FT W20-1

ROAD WORK AHEAD W20-1

500'

1000'

DY TPMRT

W TPMRT

W01-4L

185' DRUM TAPER

MATCHLINE STA. 711+00'BE'

12'

712'BE' 714'BE' 716'BE' 718'BE' 720'BE' 722'BE'

USH 12/18

12'

420' SHIFTING TAPER

+69.28

500'

END ROAD WORK G20-2A 48" X 24"

CLEAR VIEW RD

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
CCC	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
--------	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

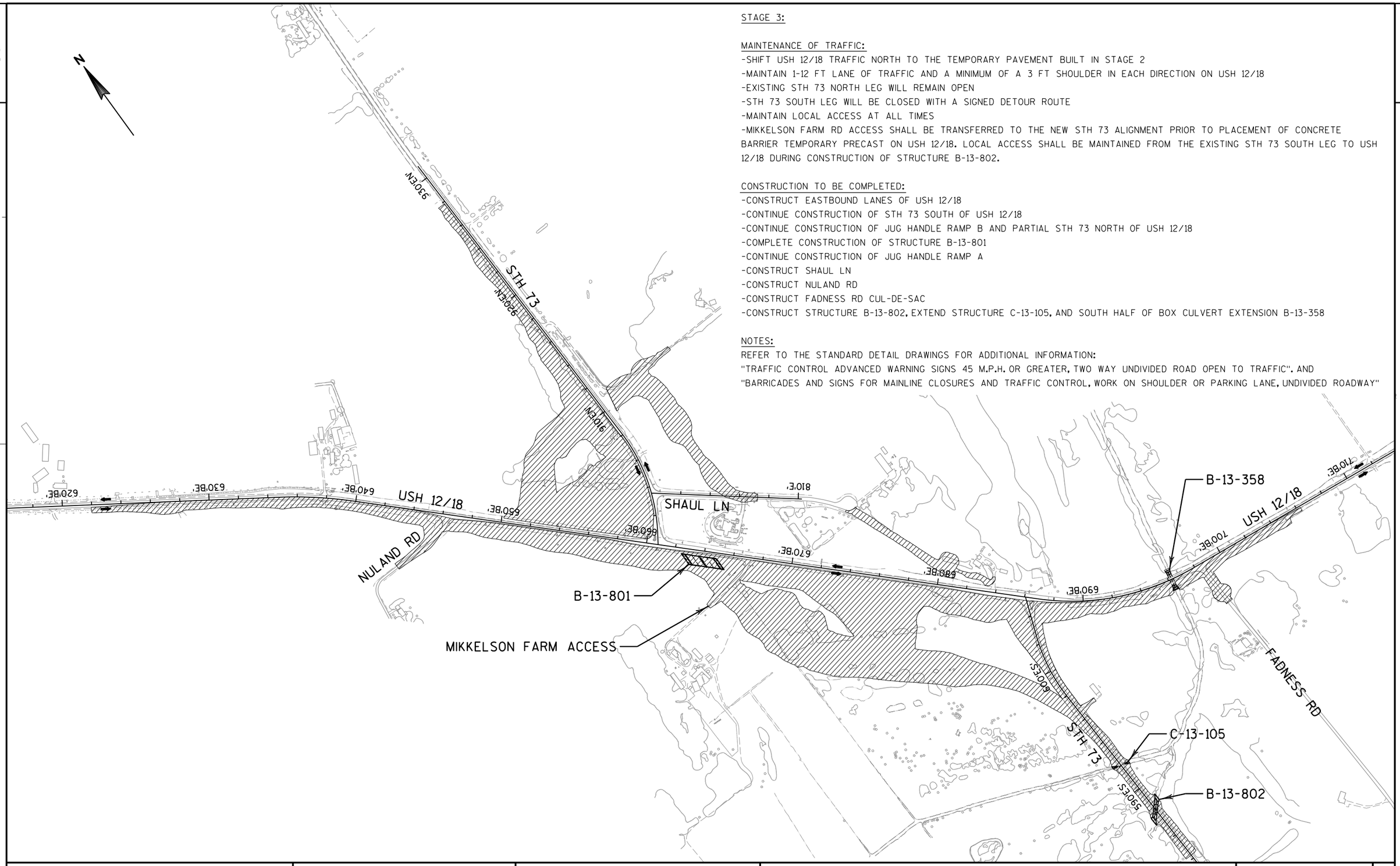
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 2 - USH 12/18	SHEET 179	E

STAGE 3:

MAINTENANCE OF TRAFFIC:
-SHIFT USH 12/18 TRAFFIC NORTH TO THE TEMPORARY PAVEMENT BUILT IN STAGE 2
-MAINTAIN 1-12 FT LANE OF TRAFFIC AND A MINIMUM OF A 3 FT SHOULDER IN EACH DIRECTION ON USH 12/18
-EXISTING STH 73 NORTH LEG WILL REMAIN OPEN
-STH 73 SOUTH LEG WILL BE CLOSED WITH A SIGNED DETOUR ROUTE
-MAINTAIN LOCAL ACCESS AT ALL TIMES
-MIKKELSON FARM RD ACCESS SHALL BE TRANSFERRED TO THE NEW STH 73 ALIGNMENT PRIOR TO PLACEMENT OF CONCRETE BARRIER TEMPORARY PRECAST ON USH 12/18. LOCAL ACCESS SHALL BE MAINTAINED FROM THE EXISTING STH 73 SOUTH LEG TO USH 12/18 DURING CONSTRUCTION OF STRUCTURE B-13-802.

CONSTRUCTION TO BE COMPLETED:
-CONSTRUCT EASTBOUND LANES OF USH 12/18
-CONTINUE CONSTRUCTION OF STH 73 SOUTH OF USH 12/18
-CONTINUE CONSTRUCTION OF JUG HANDLE RAMP B AND PARTIAL STH 73 NORTH OF USH 12/18
-COMPLETE CONSTRUCTION OF STRUCTURE B-13-801
-CONTINUE CONSTRUCTION OF JUG HANDLE RAMP A
-CONSTRUCT SHAUL LN
-CONSTRUCT NULAND RD
-CONSTRUCT FADNESS RD CUL-DE-SAC
-CONSTRUCT STRUCTURE B-13-802, EXTEND STRUCTURE C-13-105, AND SOUTH HALF OF BOX CULVERT EXTENSION B-13-358

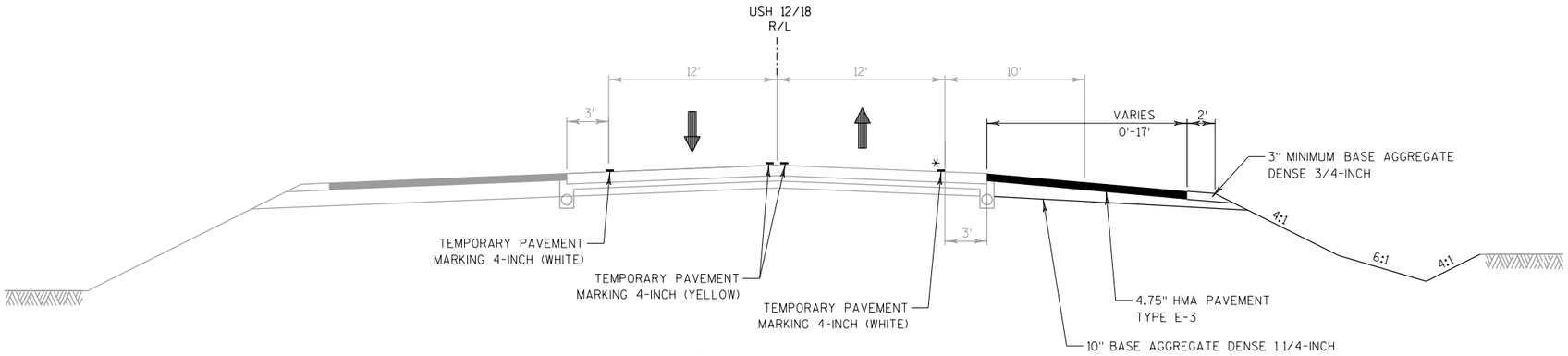
NOTES:
REFER TO THE STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC". AND
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES AND TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL: STAGE 3 OVERVIEW	SHEET 180	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025301_tc_ov.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : NTS

WISDOT/CADDS SHEET 42



TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 3
STA 621+97'BE' - STA 628+50'BE'
STA 702+00'BE' - 710+37.87'BE'

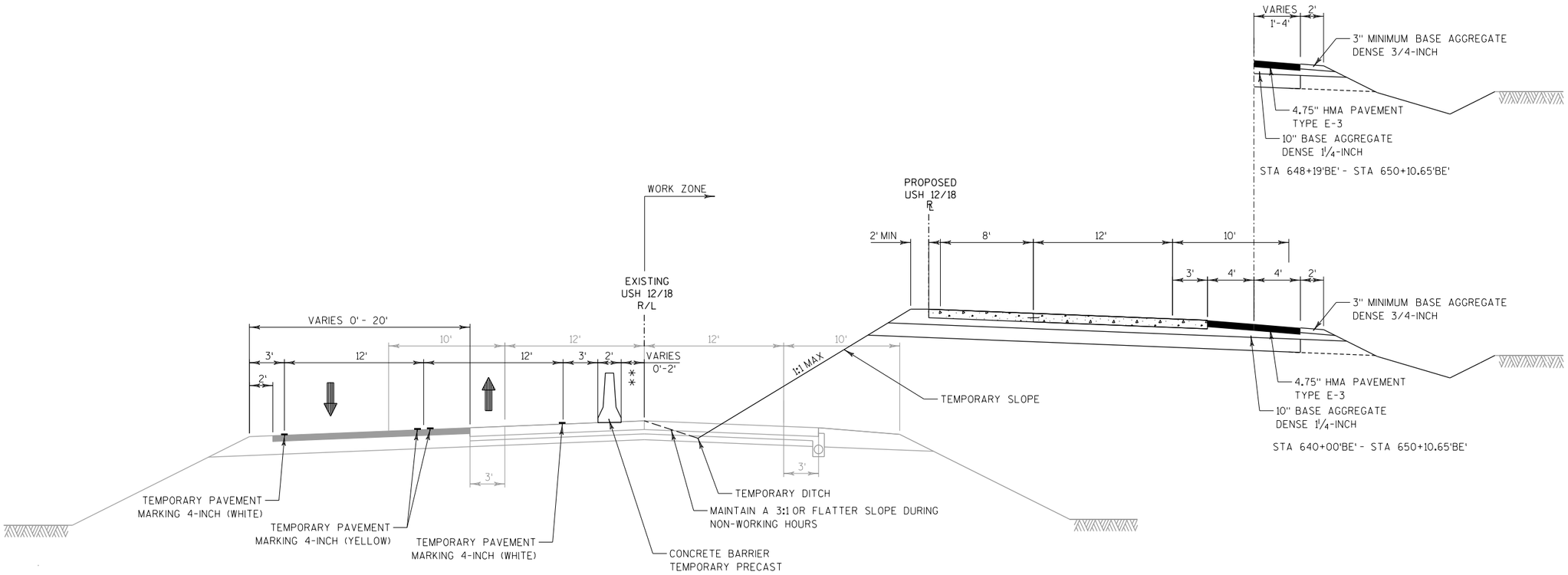
NOTES

*SEE CROSS SECTIONS FOR WIDTHS AND SLOPE IN AREAS OF TEMPORARY WIDENING

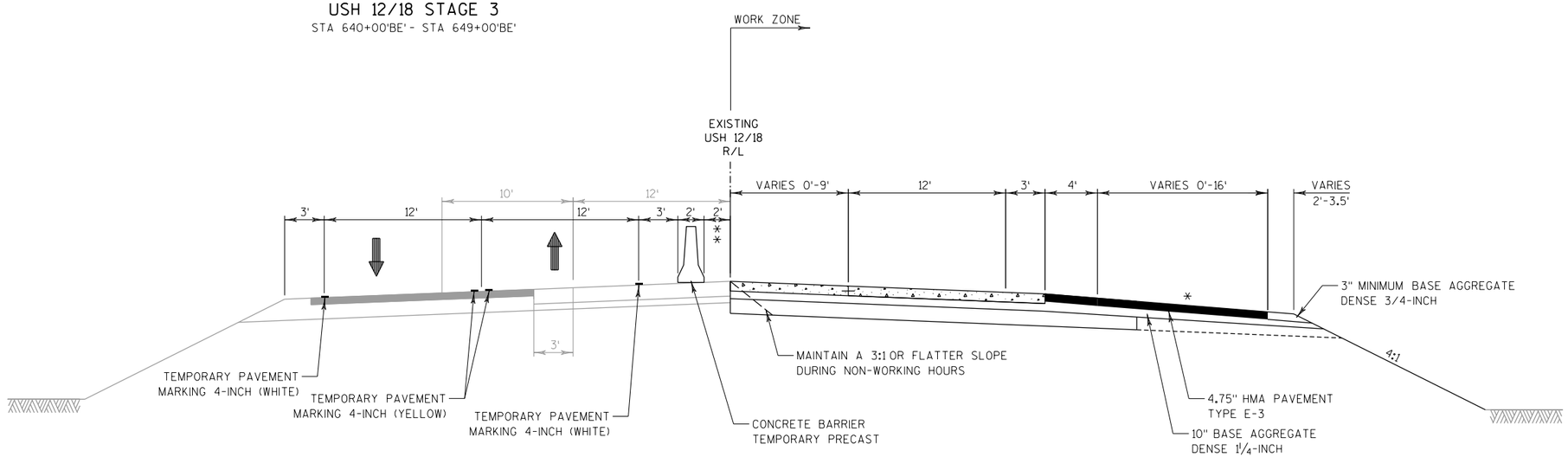
**SEE TRAFFIC CONTROL PLAN SHEETS FOR LOCATION OF CONCRETE BARRIER TEMPORARY PRECAST

REMOVE ALL TEMPORARY WIDENING AND RESTORE THE SLOPE TO THE ORIGINAL CONDITION IN STAGE 5

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION	SHEET 181	E



TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 3
STA 640+00'BE' - STA 649+00'BE'



TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 3
STA 628+50'BE' - STA 640+00'BE'
STA 686+50'BE' - STA 702+00'BE'

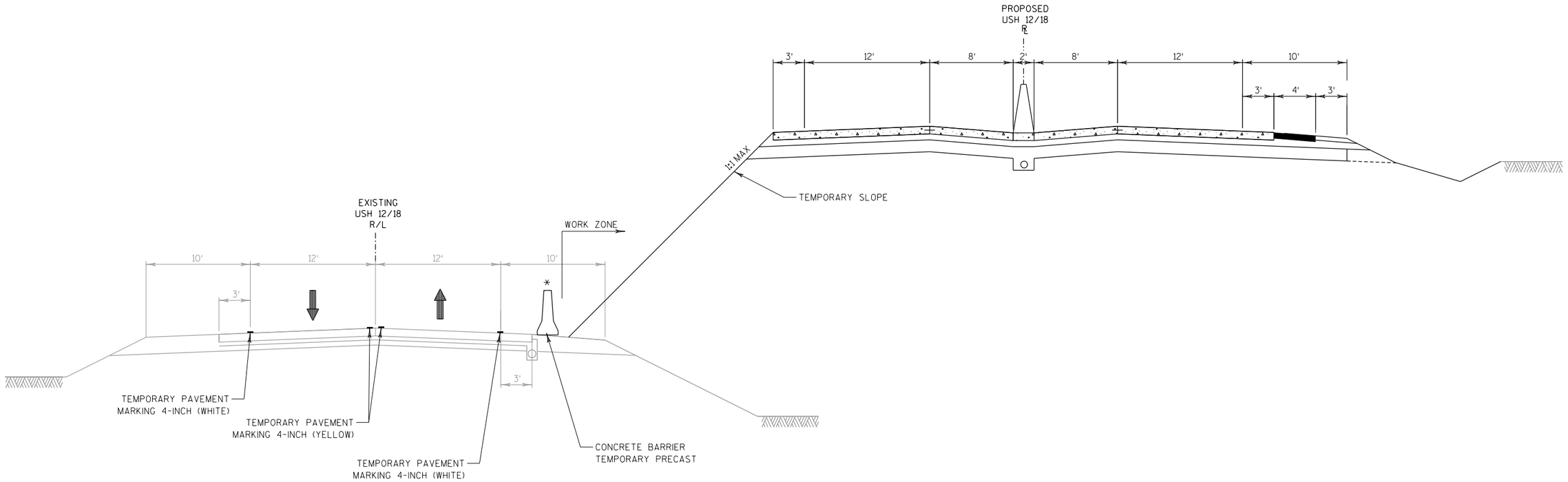
NOTES

*SEE CROSS SECTIONS FOR WIDTHS AND SLOPE IN AREAS OF TEMPORARY WIDENING

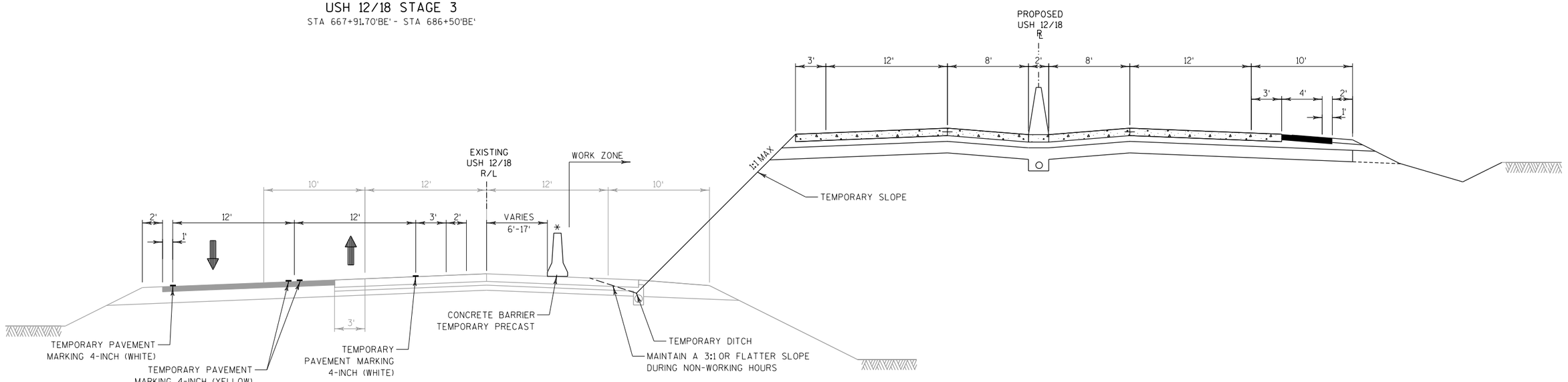
**SEE TRAFFIC CONTROL PLAN SHEETS FOR LOCATION OF CONCRETE BARRIER TEMPORARY PRECAST

REMOVE ALL TEMPORARY WIDENING AND RESTORE THE SLOPE TO THE ORIGINAL CONDITION IN STAGE 5

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION	SHEET 182	E



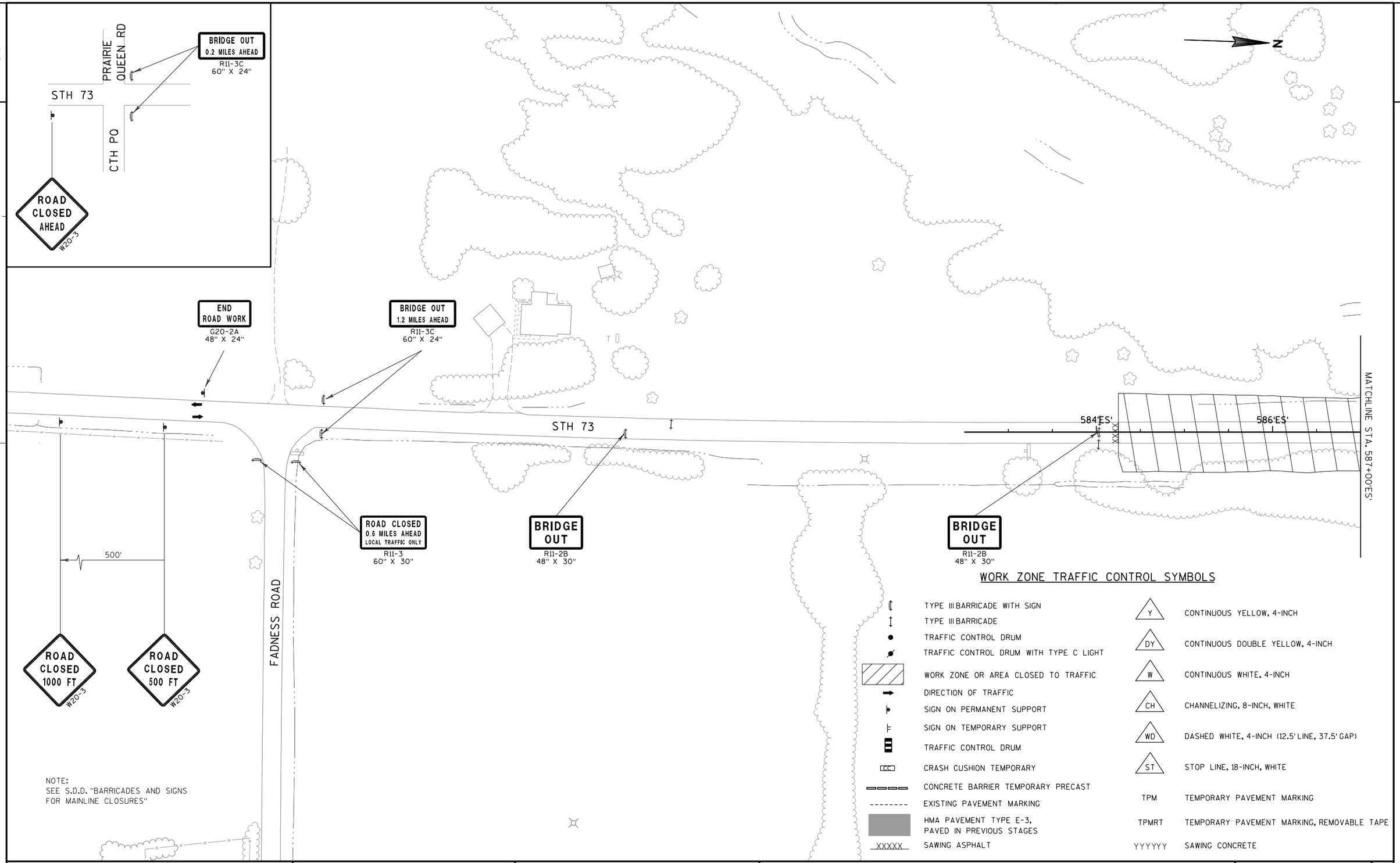
TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 3
STA 667+91.70'BE' - STA 686+50'BE'



NOTE
*SEE TRAFFIC CONTROL PLAN SHEETS FOR LOCATION OF CONCRETE BARRIER TEMPORARY PRECAST

TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 3
STA 649+00'BE' - STA 667+91.70'BE'

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION	SHEET 183	E



WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

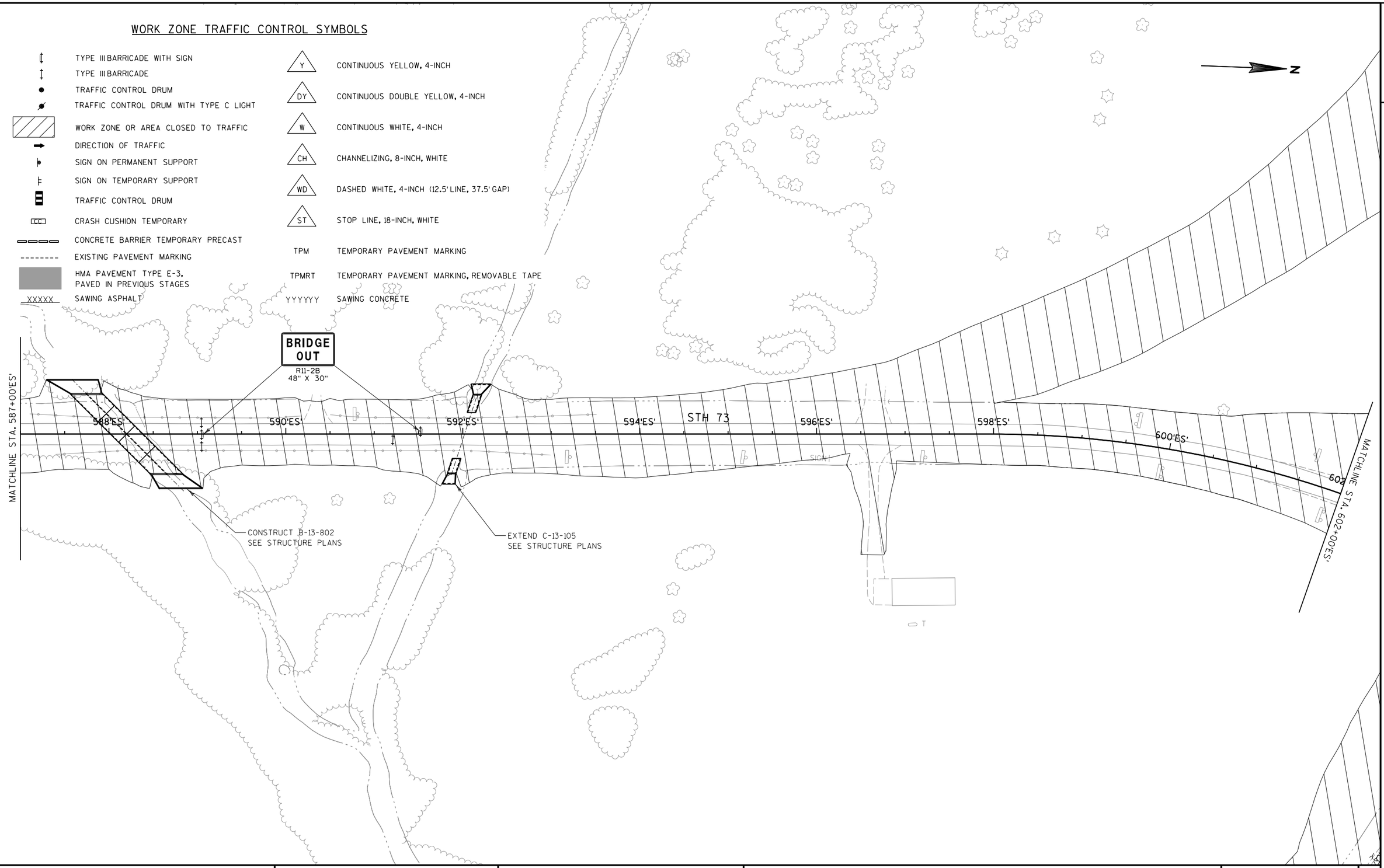
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 - STH 73	SHEET 184	E

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 - STH 73	SHEET 185	E

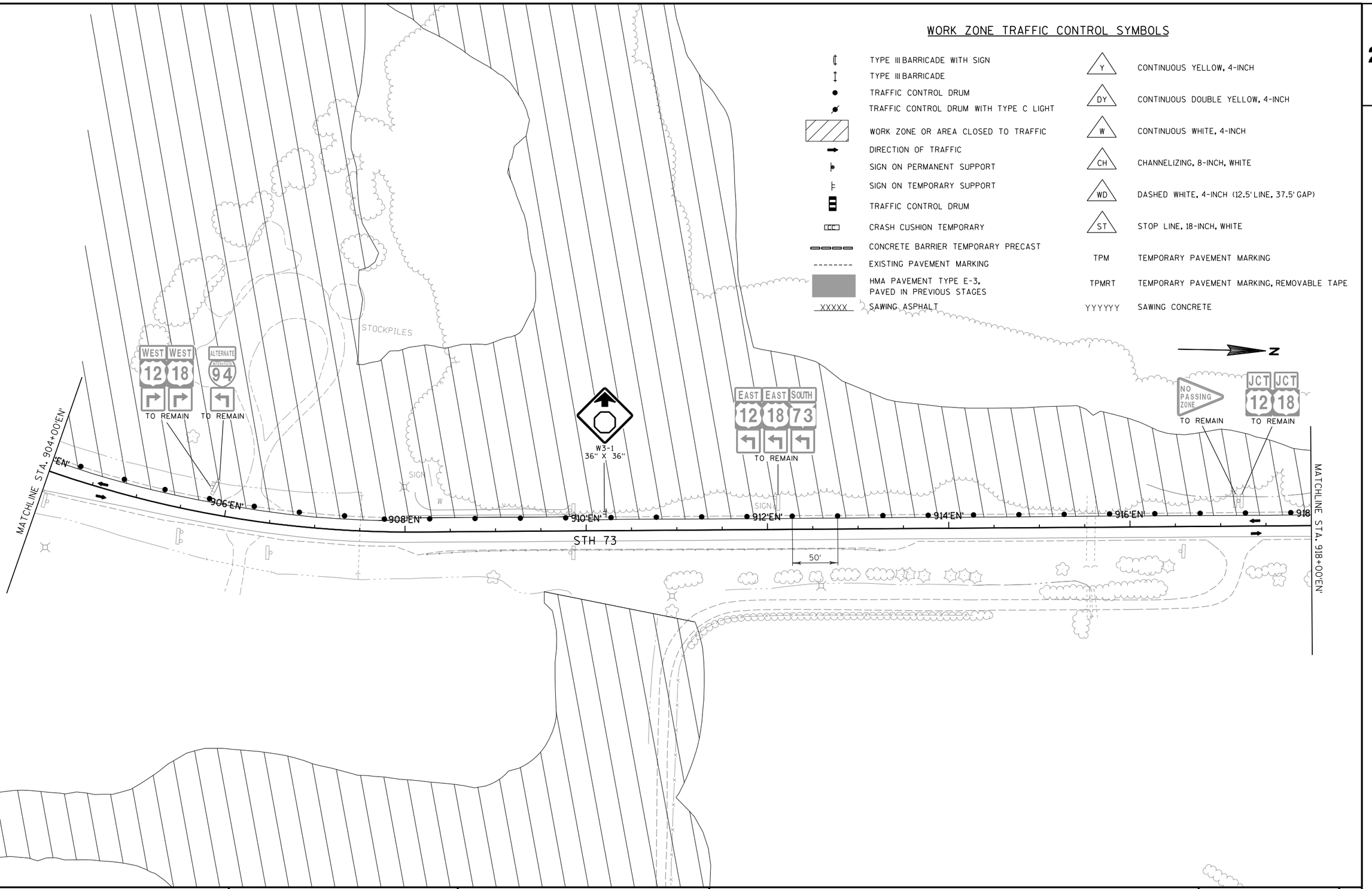
FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025304_tc_S3.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN	Y	CONTINUOUS YELLOW, 4-INCH
	TYPE III BARRICADE	DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
	TRAFFIC CONTROL DRUM	W	CONTINUOUS WHITE, 4-INCH
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	CH	CHANNELIZING, 8-INCH, WHITE
	WORK ZONE OR AREA CLOSED TO TRAFFIC	WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	DIRECTION OF TRAFFIC	ST	STOP LINE, 18-INCH, WHITE
	SIGN ON PERMANENT SUPPORT	TPM	TEMPORARY PAVEMENT MARKING
	SIGN ON TEMPORARY SUPPORT	TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
	TRAFFIC CONTROL DRUM	YYYYYY	SAWING CONCRETE
	CRASH CUSHION TEMPORARY		
	CONCRETE BARRIER TEMPORARY PRECAST		
	EXISTING PAVEMENT MARKING		
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES		
XXXXX	SAWING ASPHALT		



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 - STH 73	SHEET 186	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

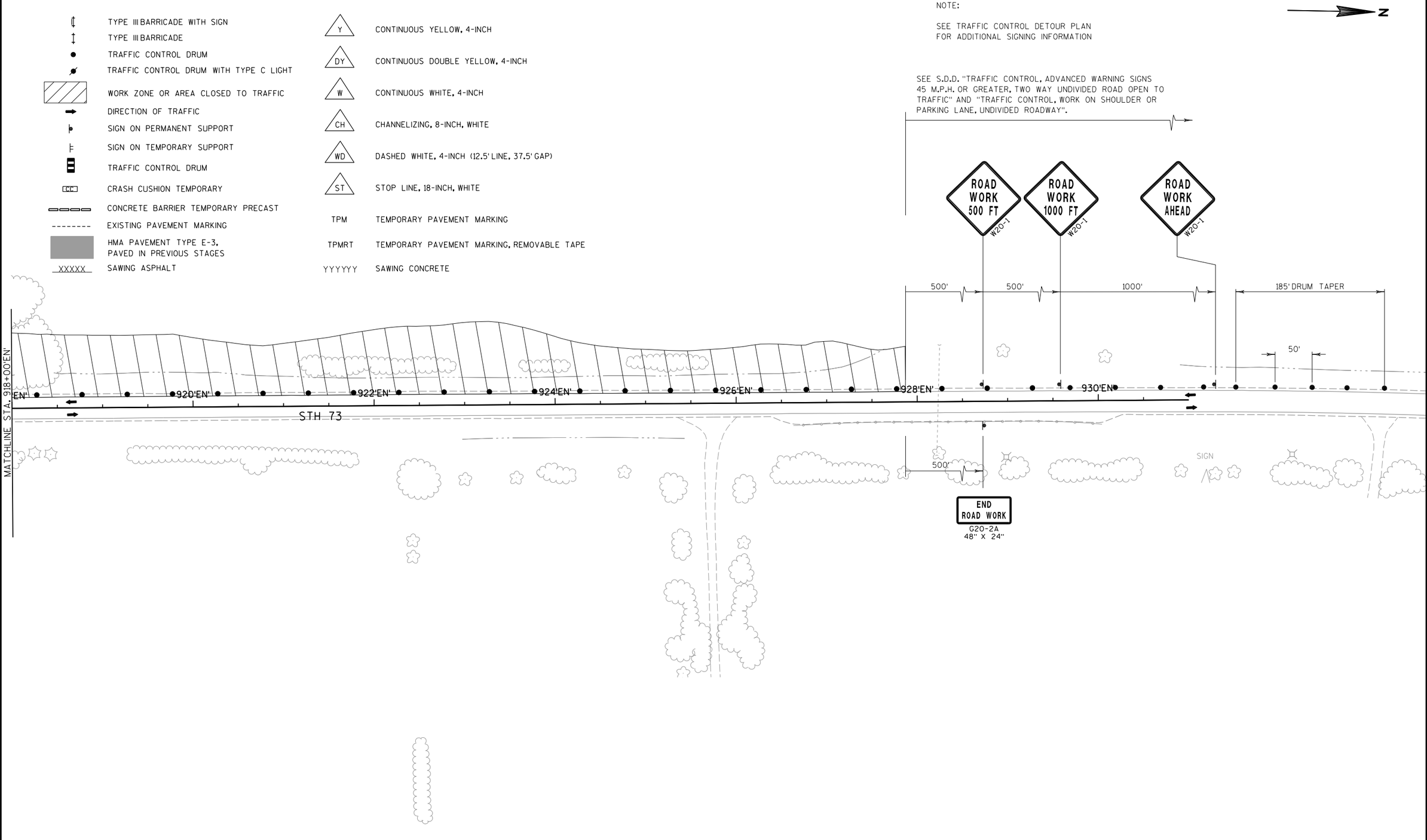
TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	YYYYY SAWING CONCRETE
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE

NOTE:

SEE TRAFFIC CONTROL DETOUR PLAN FOR ADDITIONAL SIGNING INFORMATION

N

SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".



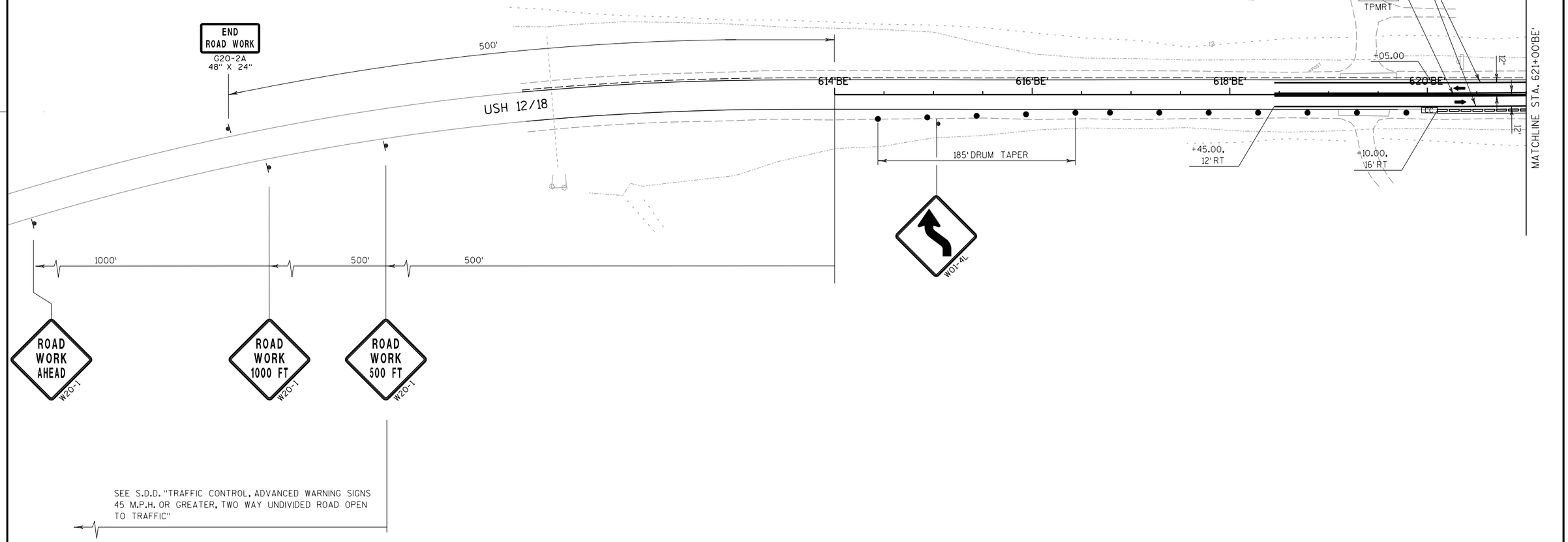
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 - STH 73	SHEET 187	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025306_tc_S3.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE



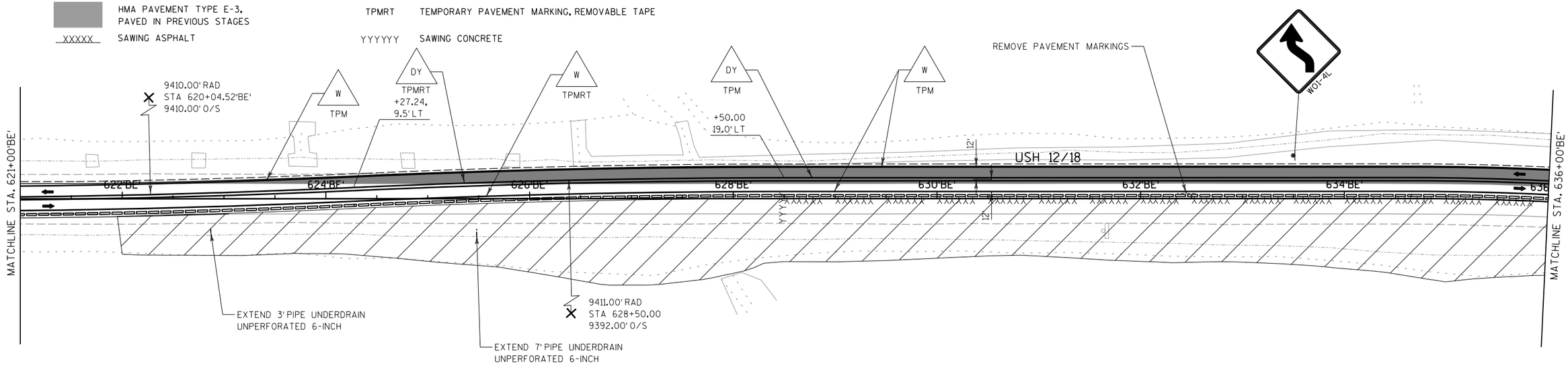
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 USH - 12/18	SHEET 188	E

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE



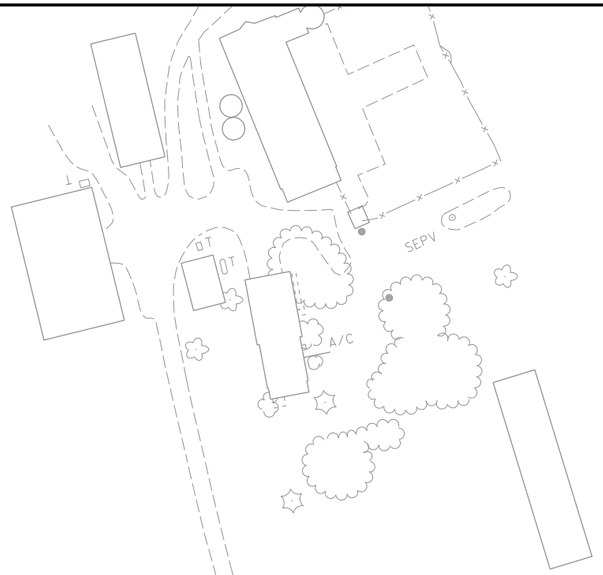
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 USH - 12/18	SHEET 189	E

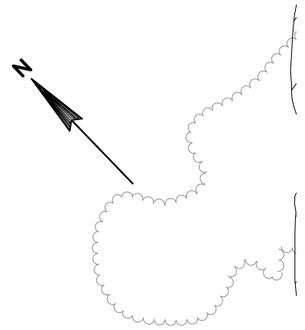
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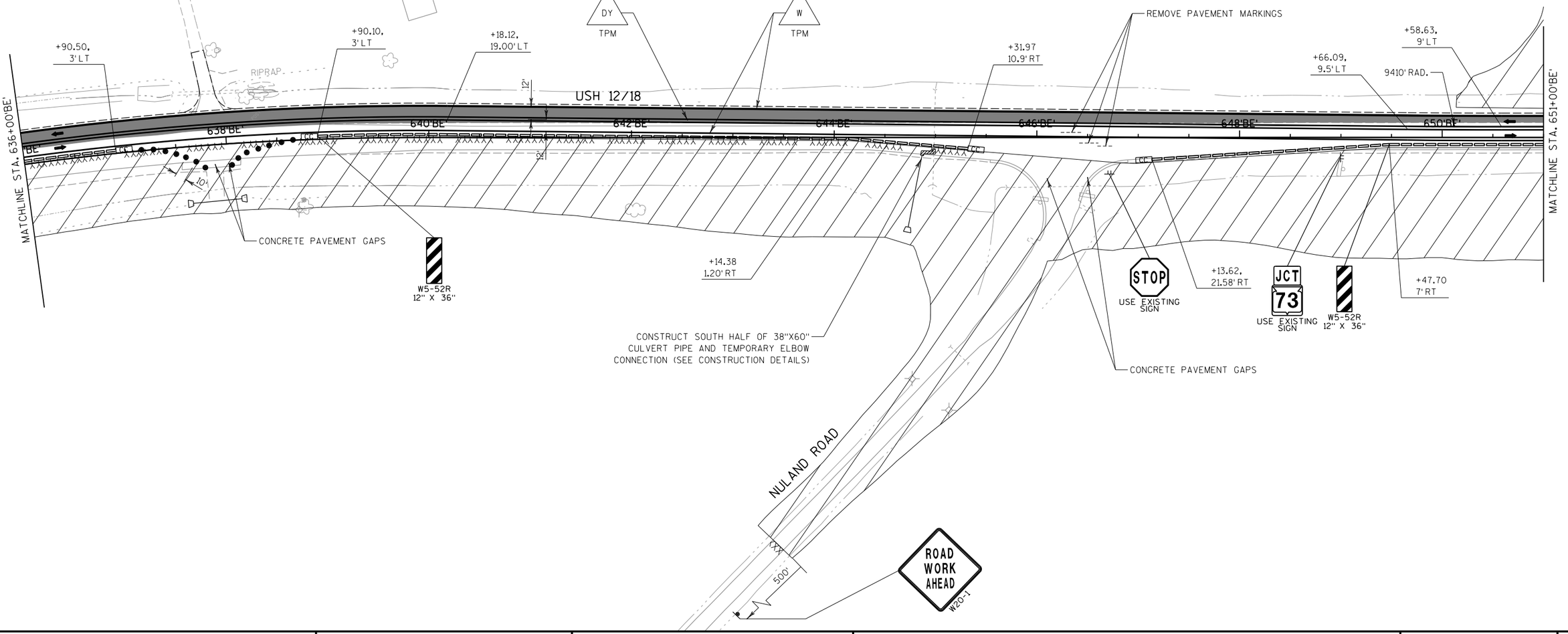
WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE

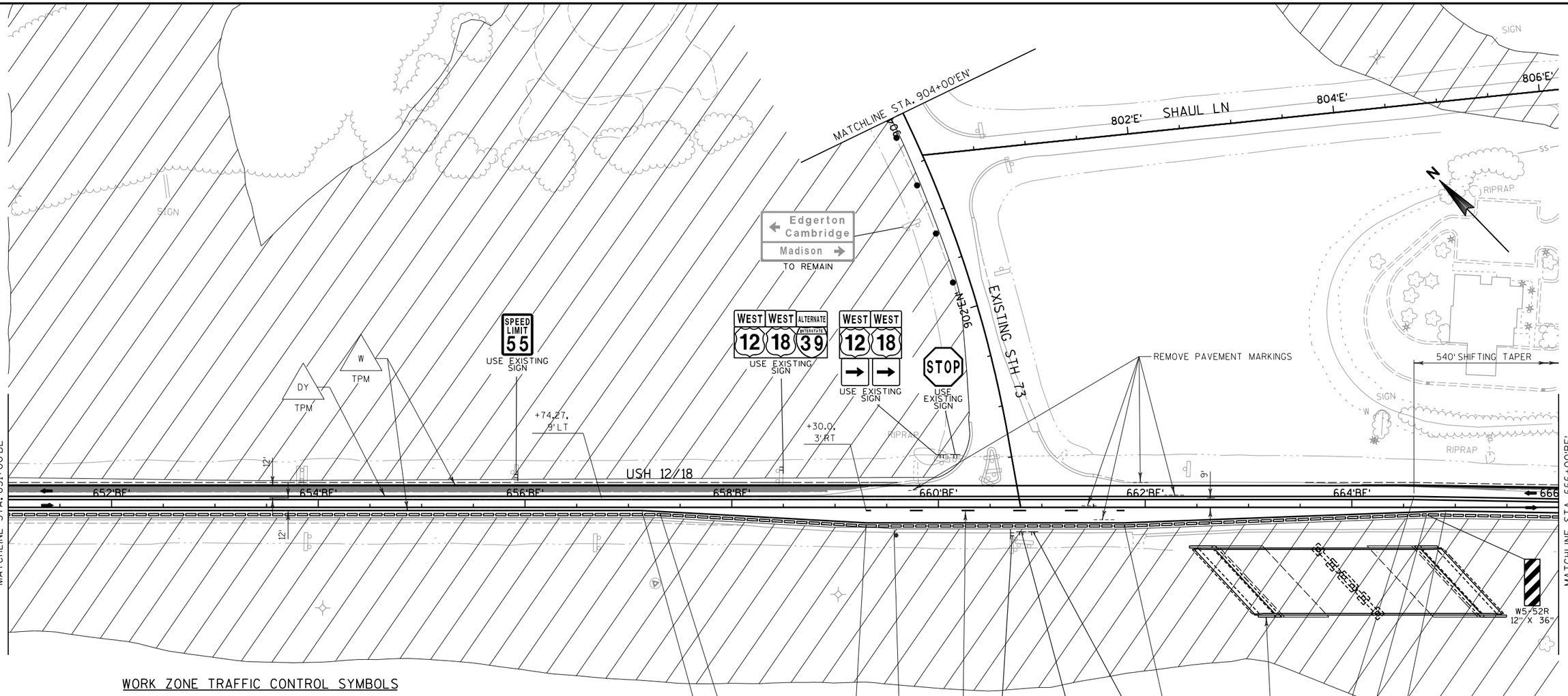






PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 USH - 12/18	SHEET 190	E

2



WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN	Y	CONTINUOUS YELLOW, 4-INCH
	TYPE III BARRICADE	DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
	TRAFFIC CONTROL DRUM	W	CONTINUOUS WHITE, 4-INCH
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	CH	CHANNELIZING, 8-INCH, WHITE
	WORK ZONE OR AREA CLOSED TO TRAFFIC	WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	DIRECTION OF TRAFFIC	ST	STOP LINE, 18-INCH, WHITE
	SIGN ON PERMANENT SUPPORT	TPM	TEMPORARY PAVEMENT MARKING
	SIGN ON TEMPORARY SUPPORT	TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
	TRAFFIC CONTROL DRUM	YYYYYY	SAWING CONCRETE
	CRASH CUSHION TEMPORARY		
	CONCRETE BARRIER TEMPORARY PRECAST		
	EXISTING PAVEMENT MARKING		
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES		
XXXXX	SAWING ASPHALT		

NOTE:

SEE TRAFFIC CONTROL DETOUR PLAN FOR ADDITIONAL SIGNING INFORMATION

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 USH - 12/18	SHEET 191	E

2

SHAUL LN

808'E'

810'E'

FLAG

CEMETERY

SLAB

SLAB

N

W01-4R

540' SHIFTING TAPER

DY

TPM

W

TPM

REMOVE PAVEMENT MARKINGS

+00.0
16' RT

12'

12'

668'BE'

670'BE'

672'BE'

674'BE'

676'BE'

678'BE'

680'BE'

USH 12/18

MATCHLINE STA. 666+00'BE'

MATCHLINE STA. 681+00'BE'

W01-2L

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
CCC	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 USH - 12/18	SHEET 192	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025311_tc_S3.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

2

NOTE

SEE TRAFFIC CONTROL DETOUR PLAN FOR ADDITIONAL SIGNING INFORMATION

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE

N

MATCHLINE STA. 681+00'BE'

682'BE'

684'BE'

686'BE'

688'BE'

690'BE'

692'BE'

694'BE'

696

MATCHLINE STA. 696+00'BE'

USH 12/18

SOUTH 73 | WEST 12 | WEST 18 | NORTH 73

TO REMAIN

ROAD CLOSED
R11-2
48" X 30"

REMOVE PAVEMENT MARKINGS

R3-2
24" X 24"

DY
TPM

W
TPM

1783.00' RAD.
STA 686+05.49'BE'
1783.00' O/S

+51.39,
36.5'LT

+56.92

+05.05

+36.13,
7.85'RT

+19.38,
20.73'RT

+42.00
16.0'RT

R3-1
24" X 24"

60'ES

EXISTING STH 73

53'ES

MATCHLINE STA. 602+00

BRIDGE OUT
R11-2B
48" X 30"

CONSTRUCT SOUTH HALF OF 36" CULVERT PIPE AND CONNECT TO CULVERT PIPE TEMPORARY 24", 2-CONCRETE COLLARS FOR PIPE REQ'D, SEE CONSTRUCTION DETAILS

W5-52R
12" X 36"

EAST 12 | EAST 18 | ALTERNATE INTERSTATE 94
USE EXISTING SIGN

SPEED LIMIT 55
USE EXISTING SIGN

W01-4R

CONSTRUCT SOUTH HALF OF 24" CULVERT PIPE AND CONNECT TO CULVERT PIPE TEMPORARY 24", 2-CONCRETE COLLARS FOR PIPE REQ'D, SEE CONSTRUCTION DETAILS

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 USH - 12/18	SHEET 193	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE

N

REMOVE PAVEMENT MARKINGS

DY TPM

W TPM

R3-2 24" X 24"

+92.40, 19' LT

+20.00, 35' LT

+09.73 35' LT

USH 12/18

W TPM

DY TPM

W TPMRT

W01-2R

+15.22, 9.50' LT

DY TPMRT

9410.00' RAD. STA 710+37.87'BE' 9410.00' O/S

+38.00

MATCHLINE STA. 696+00'BE'

698'BE'

700'BE'

702'BE'

704'BE'

706'BE'

708'BE'

710'BE'

MATCHLINE STA. 711+00'BE'

12'

+09.73, 3' LT

R3-1 24" X 24"

ROAD CLOSED R11-2 48" X 30"

EXTEND 3' PIPE UNDERDRAIN UNPERFORATED 6-INCH

9411.00' RAD. STA 701+92.39'BE' 9392.00' O/S

+32.00, 16' RT

EXTEND B-13-358 TO THE SOUTH SEE STRUCTURE PLANS

FADNESS RD

ROAD CLOSED R11-2 48" X 30"

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 USH - 12/18	SHEET 194	E

2

N

SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

W01-4R

ROAD WORK 500 FT
W20-1

ROAD WORK 1000 FT
W20-1

ROAD WORK AHEAD
W20-1

500'

1000'

MATCHLINE STA. 711+00'BE'

712'BE' 714'BE' 716'BE' 718'BE' 720'BE' 722'BE'

USH 12/18

END ROAD WORK
G20-2A
48" X 24"

CLEAR VIEW ROAD

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 3 USH - 12/18	SHEET 195	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025314_tc_S3.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

2

STAGE 4

MAINTENANCE OF TRAFFIC

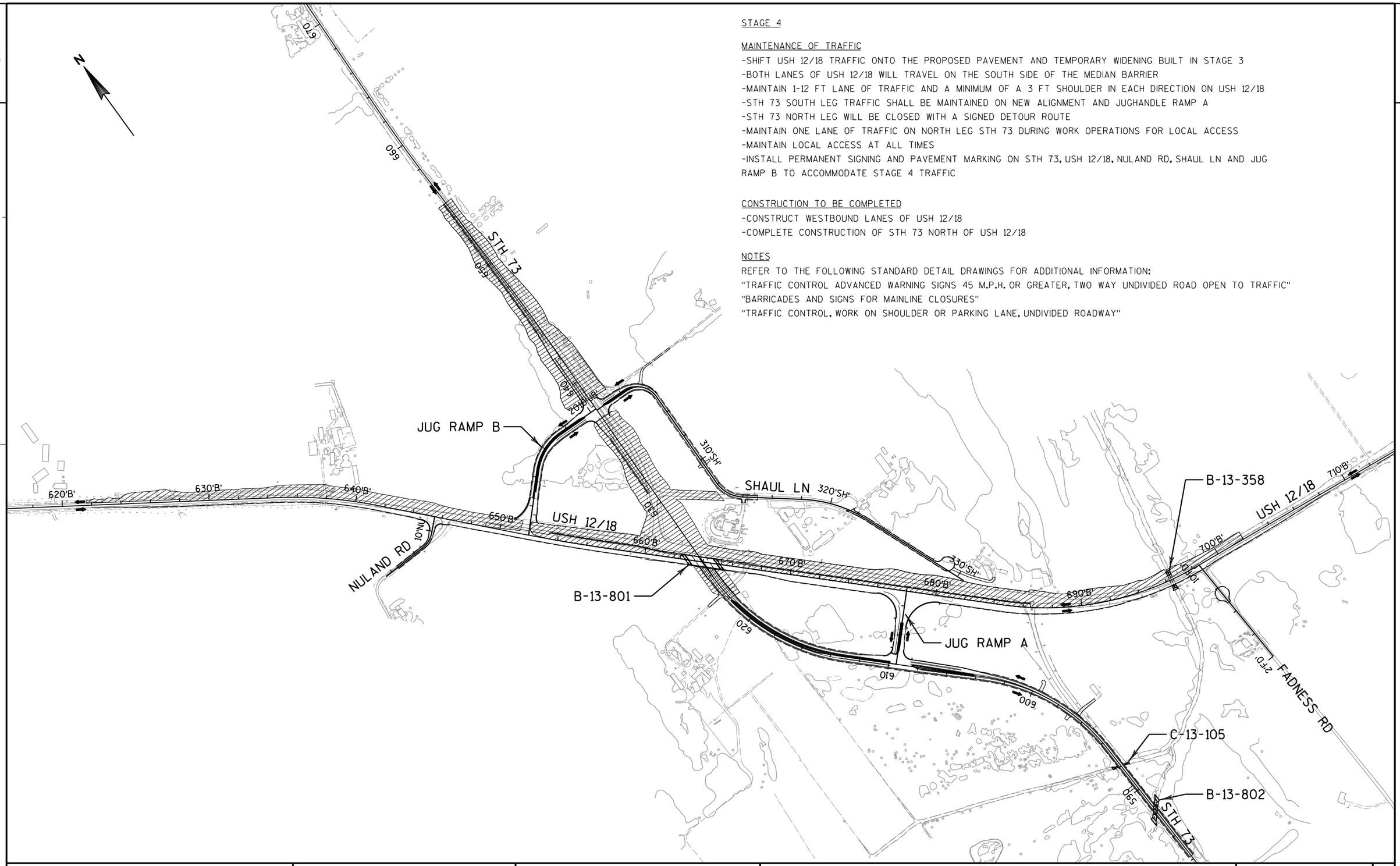
-SHIFT USH 12/18 TRAFFIC ONTO THE PROPOSED PAVEMENT AND TEMPORARY WIDENING BUILT IN STAGE 3
-BOTH LANES OF USH 12/18 WILL TRAVEL ON THE SOUTH SIDE OF THE MEDIAN BARRIER
-MAINTAIN 1-12 FT LANE OF TRAFFIC AND A MINIMUM OF A 3 FT SHOULDER IN EACH DIRECTION ON USH 12/18
-STH 73 SOUTH LEG TRAFFIC SHALL BE MAINTAINED ON NEW ALIGNMENT AND JUGHANDLE RAMP A
-STH 73 NORTH LEG WILL BE CLOSED WITH A SIGNED DETOUR ROUTE
-MAINTAIN ONE LANE OF TRAFFIC ON NORTH LEG STH 73 DURING WORK OPERATIONS FOR LOCAL ACCESS
-MAINTAIN LOCAL ACCESS AT ALL TIMES
-INSTALL PERMANENT SIGNING AND PAVEMENT MARKING ON STH 73, USH 12/18, NULAND RD, SHAUL LN AND JUG RAMP B TO ACCOMMODATE STAGE 4 TRAFFIC

CONSTRUCTION TO BE COMPLETED

-CONSTRUCT WESTBOUND LANES OF USH 12/18
-COMPLETE CONSTRUCTION OF STH 73 NORTH OF USH 12/18

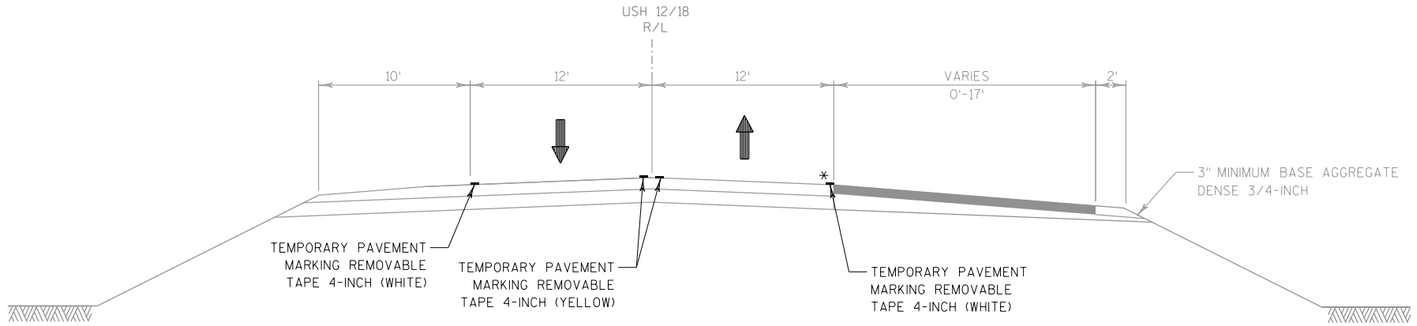
NOTES

REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
"TRAFFIC CONTROL ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"
"BARRICADES AND SIGNS FOR MAINLINE CLOSURES"
"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

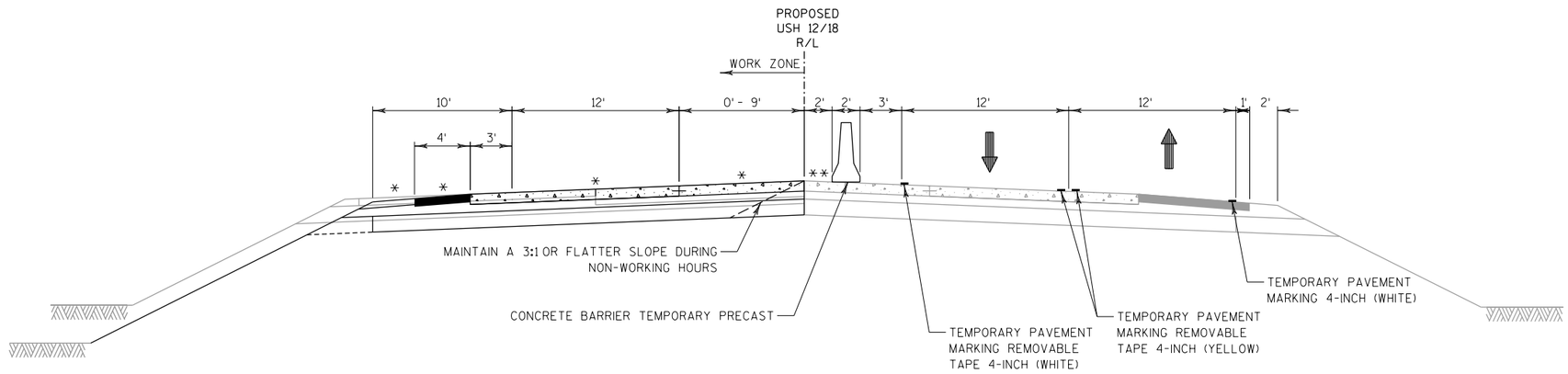


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL: STAGE 4 OVERVIEW	SHEET	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025401_tc_ov.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : NTS



TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 4
STA 621+95'B' - STA 628+50'B'
STA 702+00'B' - 710+53.80'B'



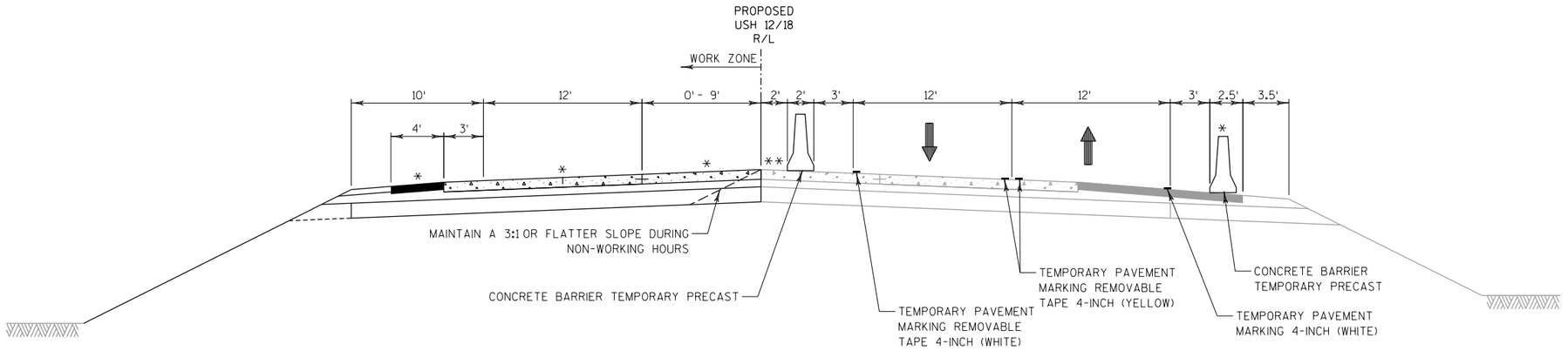
TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 4
STA 628+50'B' - STA 650+10.65'B'

NOTES

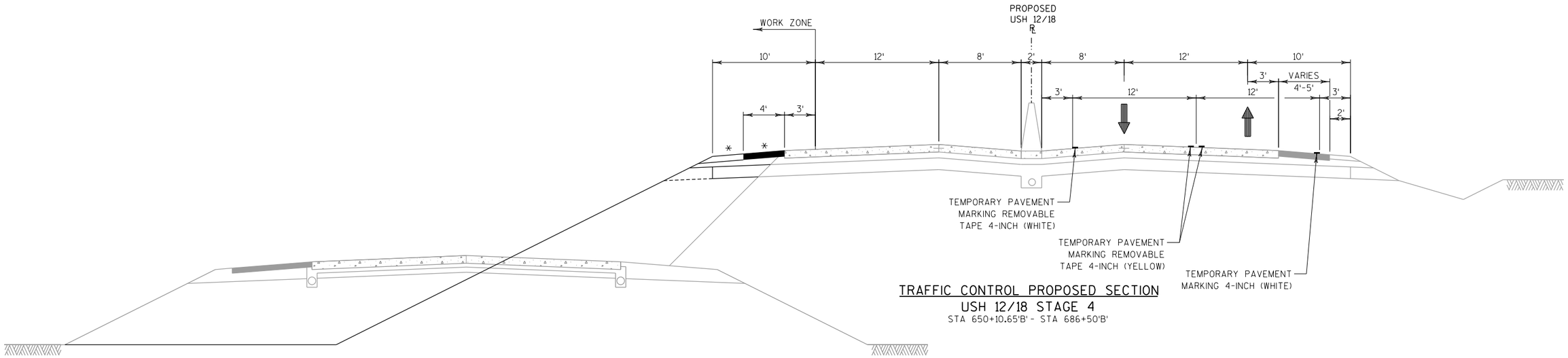
* SEE CROSS SECTIONS FOR WIDTHS AND SLOPE IN AREAS OF TEMPORARY WIDENING

** SEE TRAFFIC CONTROL PLAN SHEETS FOR LOCATION OF CONCRETE BARRIER TEMPORARY PRECAST

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION	SHEET 197	E



TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 4
STA 686+50'B' - STA 702+00'B'



TRAFFIC CONTROL PROPOSED SECTION
USH 12/18 STAGE 4
STA 650+10.65'B' - STA 686+50'B'

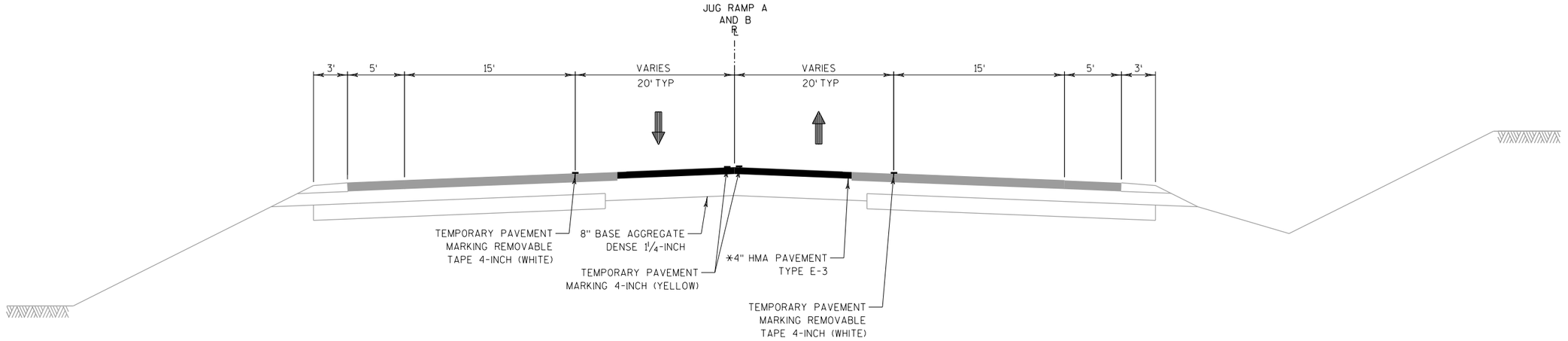
NOTES

* SEE CROSS SECTIONS FOR WIDTHS AND SLOPE IN AREAS OF TEMPORARY WIDENING

** SEE TRAFFIC CONTROL PLAN SHEETS FOR LOCATION OF CONCRETE BARRIER TEMPORARY PRECAST

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION	SHEET 198	E

2



TRAFFIC CONTROL PROPOSED SECTION

JUG RAMP A AND B STAGE 4

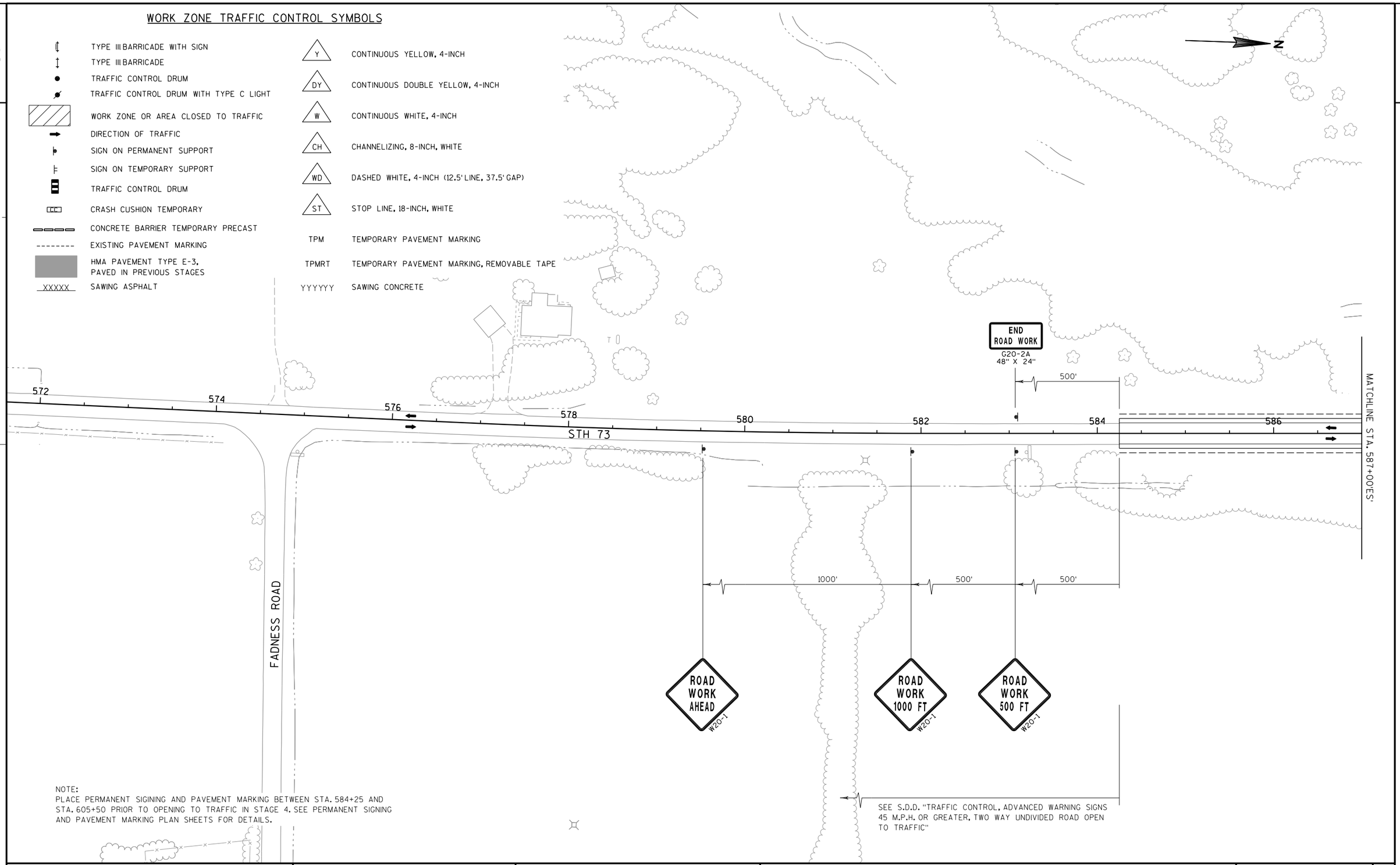
STA 1002+87'JA' - STA 1004+74'JA'
STA 2000+28'JB' - STA 2002+96'JB'

NOTE

* HMA PAVEMENT IS VARIABLE WIDTH AND MATCHES EDGE OF PROPOSED CONCRETE PAVEMENT.

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT
Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE



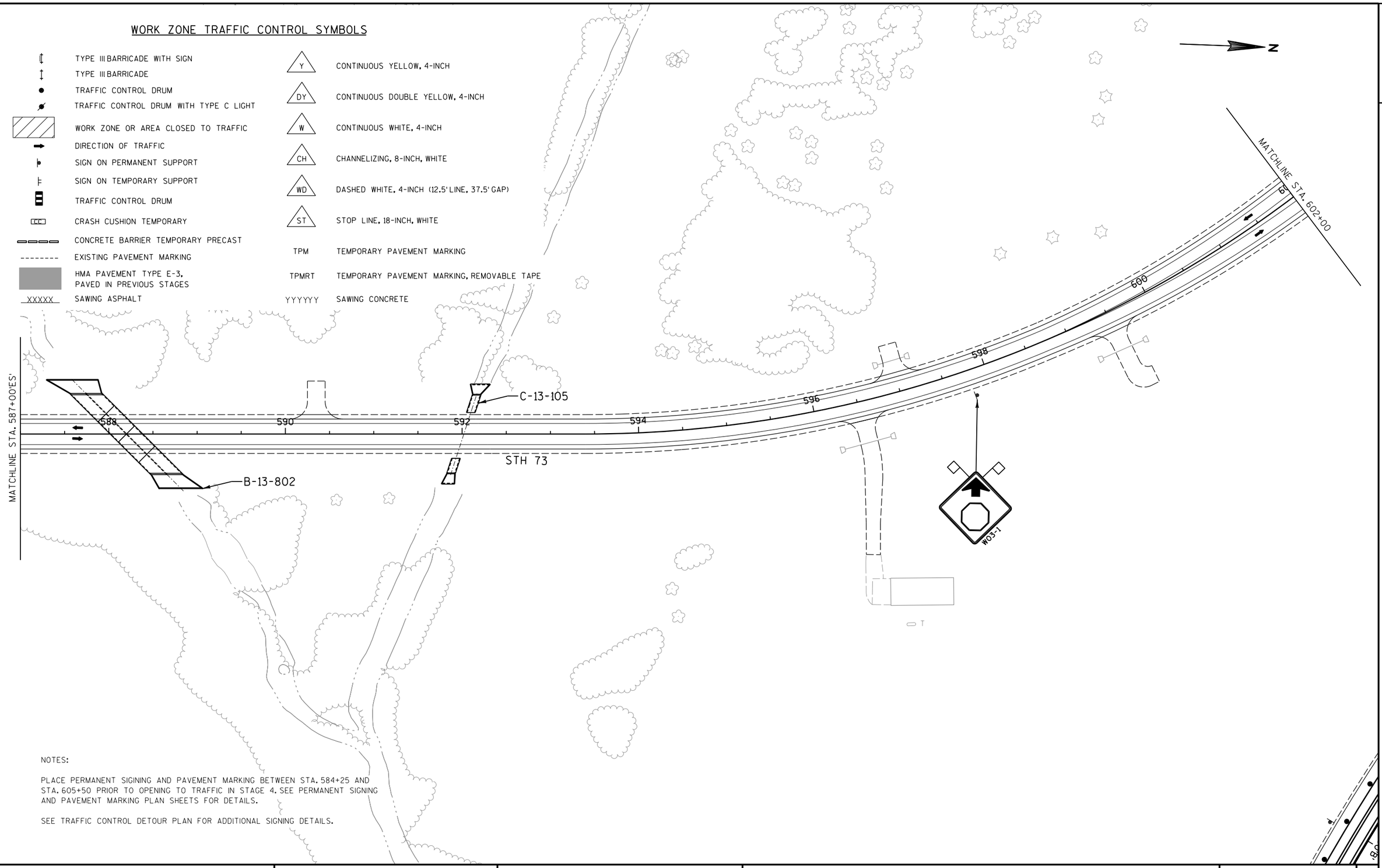
NOTE:
PLACE PERMANENT SIGINING AND PAVEMENT MARKING BETWEEN STA. 584+25 AND STA. 605+50 PRIOR TO OPENING TO TRAFFIC IN STAGE 4. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - STH 73	SHEET 200	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025403_tc_S4.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
	YYYYYY SAWING CONCRETE



NOTES:

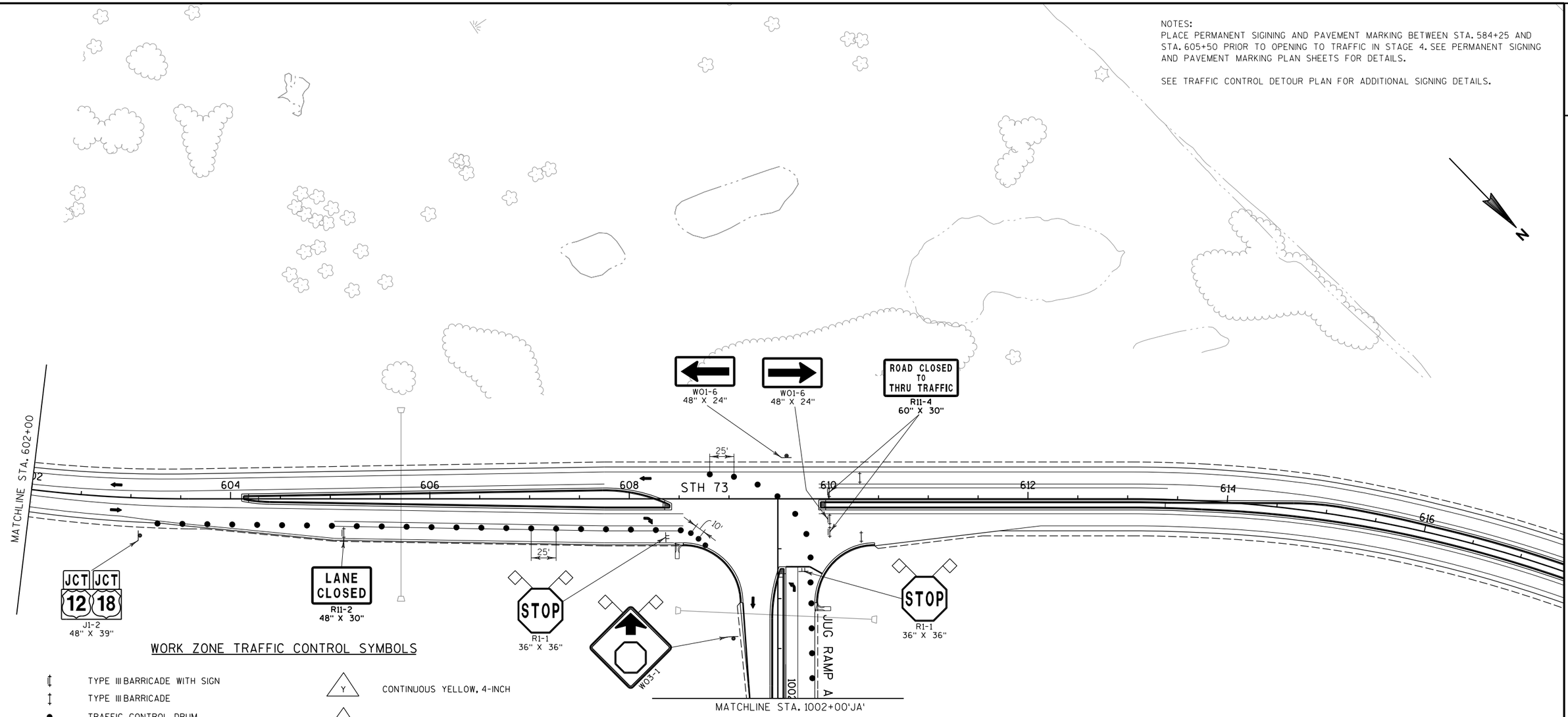
PLACE PERMANENT SIGINING AND PAVEMENT MARKING BETWEEN STA. 584+25 AND STA. 605+50 PRIOR TO OPENING TO TRAFFIC IN STAGE 4. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

SEE TRAFFIC CONTROL DETOUR PLAN FOR ADDITIONAL SIGNING DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - STH 73	SHEET 201	E

NOTES:
PLACE PERMANENT SIGINING AND PAVEMENT MARKING BETWEEN STA. 584+25 AND STA. 605+50 PRIOR TO OPENING TO TRAFFIC IN STAGE 4. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

SEE TRAFFIC CONTROL DETOUR PLAN FOR ADDITIONAL SIGNING DETAILS.



WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - STH 73	SHEET 202	E

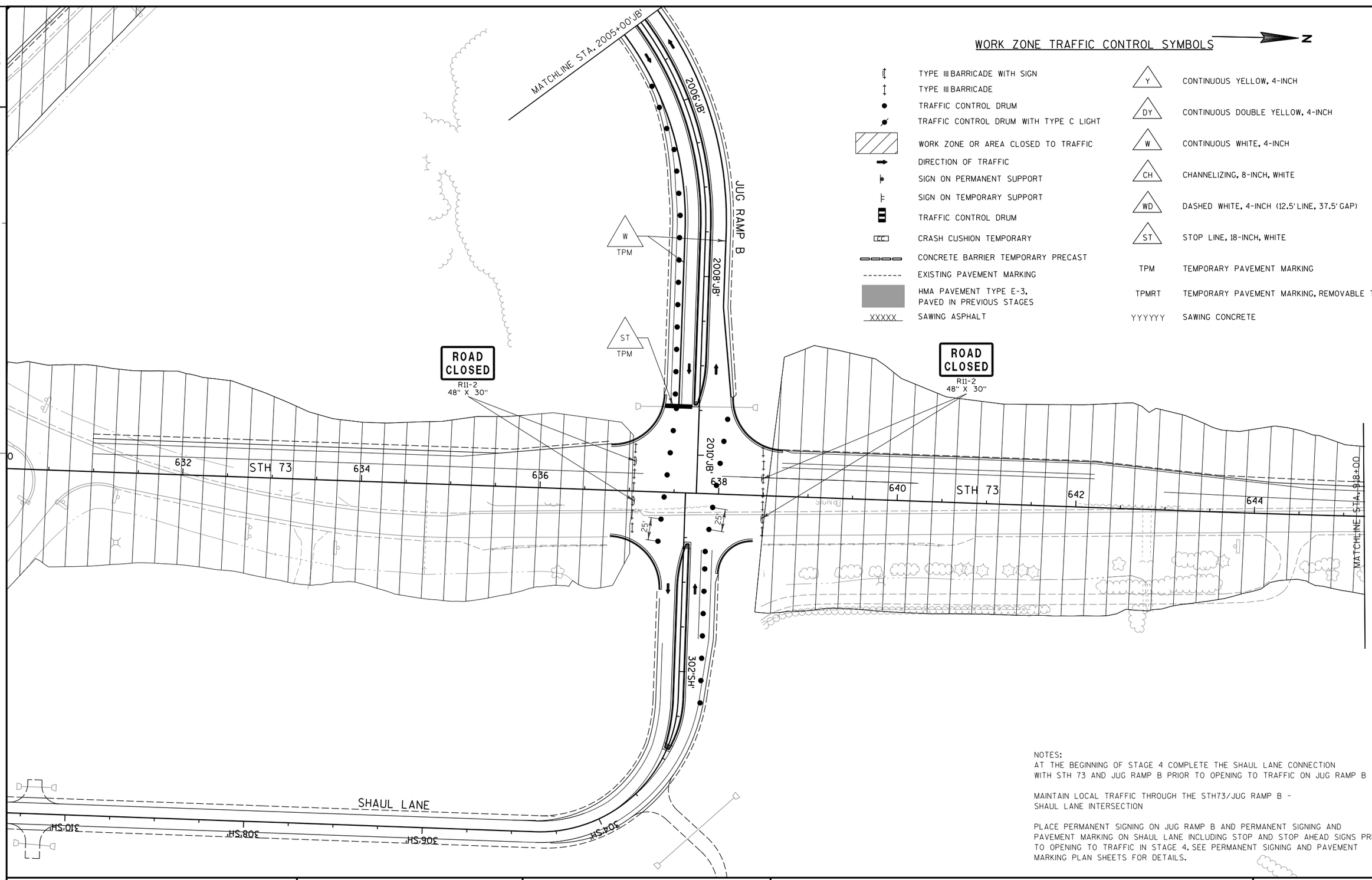
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WORK ZONE TRAFFIC CONTROL SYMBOLS

N

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE



NOTES:
AT THE BEGINNING OF STAGE 4 COMPLETE THE SHAUL LANE CONNECTION WITH STH 73 AND JUG RAMP B PRIOR TO OPENING TO TRAFFIC ON JUG RAMP B

MAINTAIN LOCAL TRAFFIC THROUGH THE STH73/JUG RAMP B - SHAUL LANE INTERSECTION

PLACE PERMANENT SIGNING ON JUG RAMP B AND PERMANENT SIGNING AND PAVEMENT MARKING ON SHAUL LANE INCLUDING STOP AND STOP AHEAD SIGNS PRIOR TO OPENING TO TRAFFIC IN STAGE 4. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

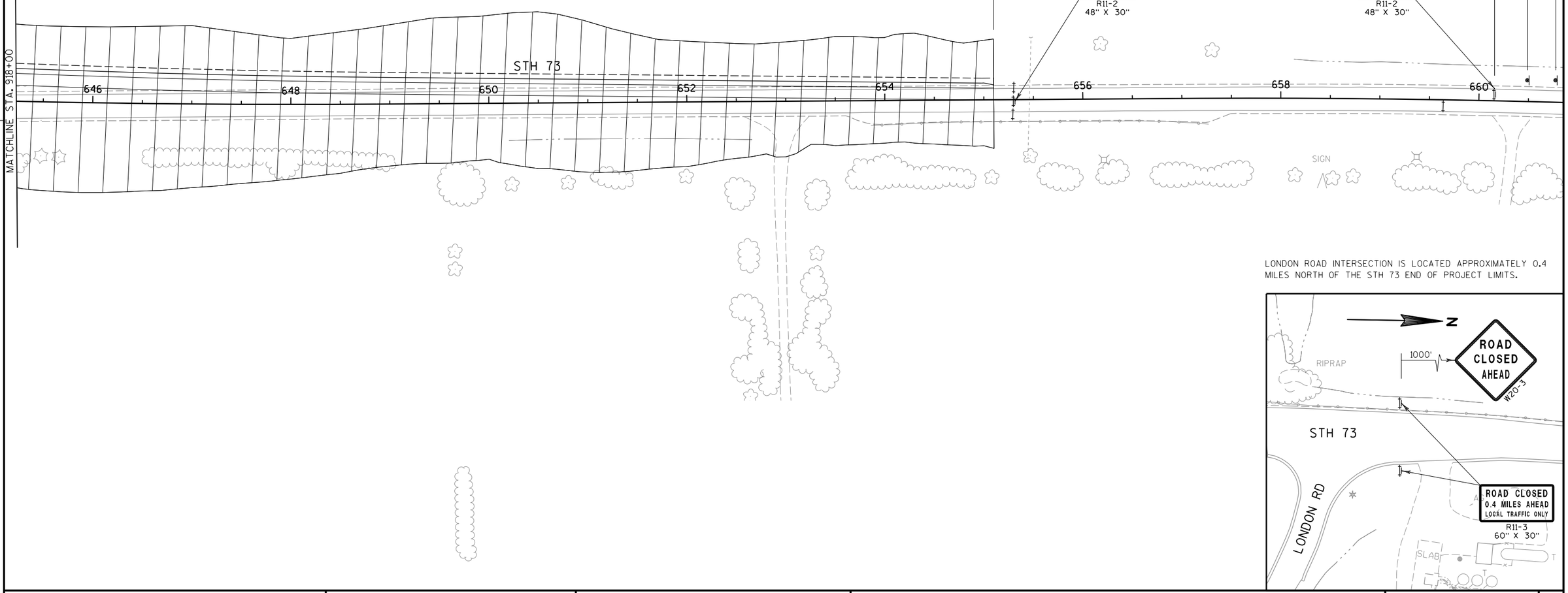
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - STH 73	SHEET 203	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	YYYYY SAWING CONCRETE
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE

N

SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".



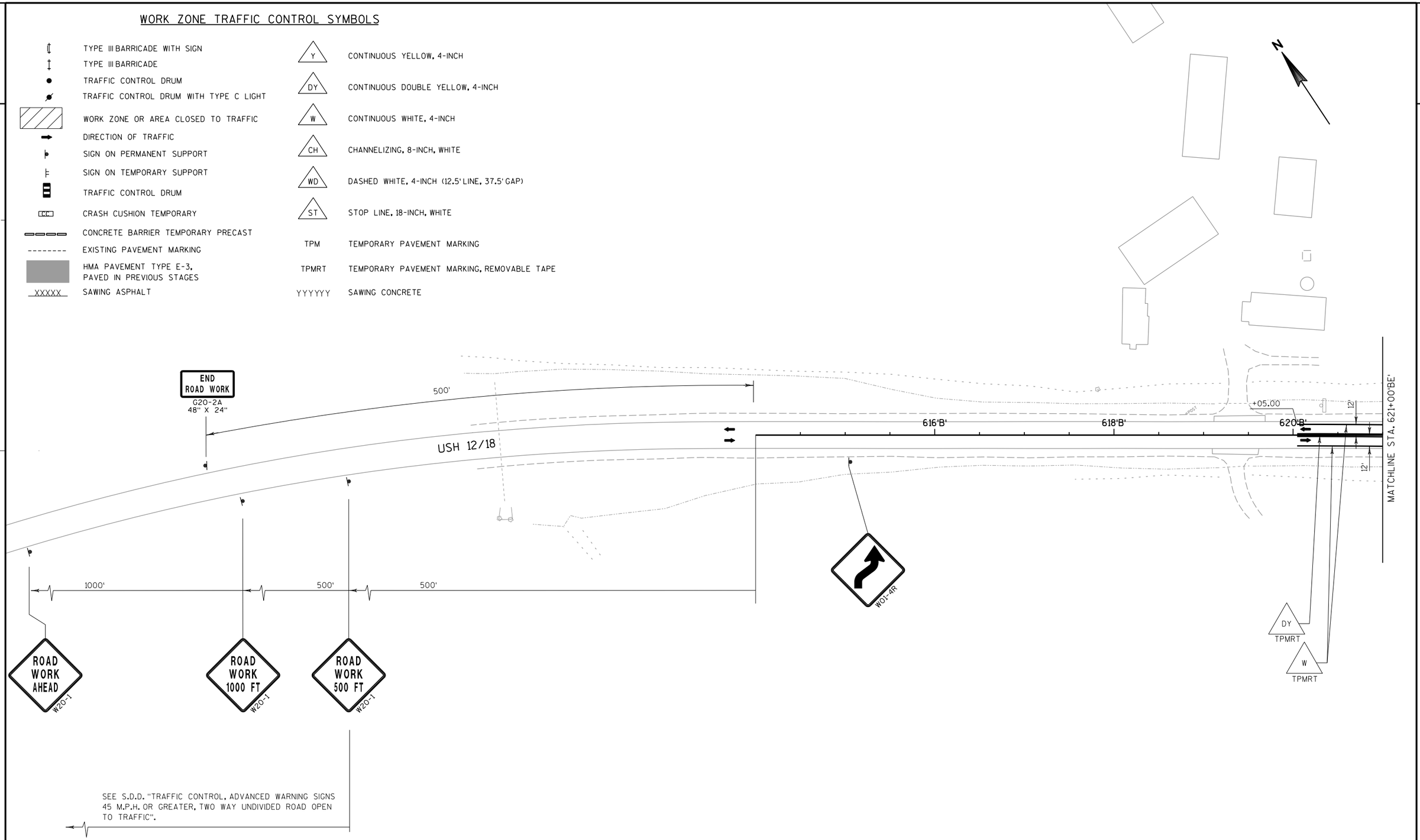
LONDON ROAD INTERSECTION IS LOCATED APPROXIMATELY 0.4 MILES NORTH OF THE STH 73 END OF PROJECT LIMITS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - STH 73	SHEET 204	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE

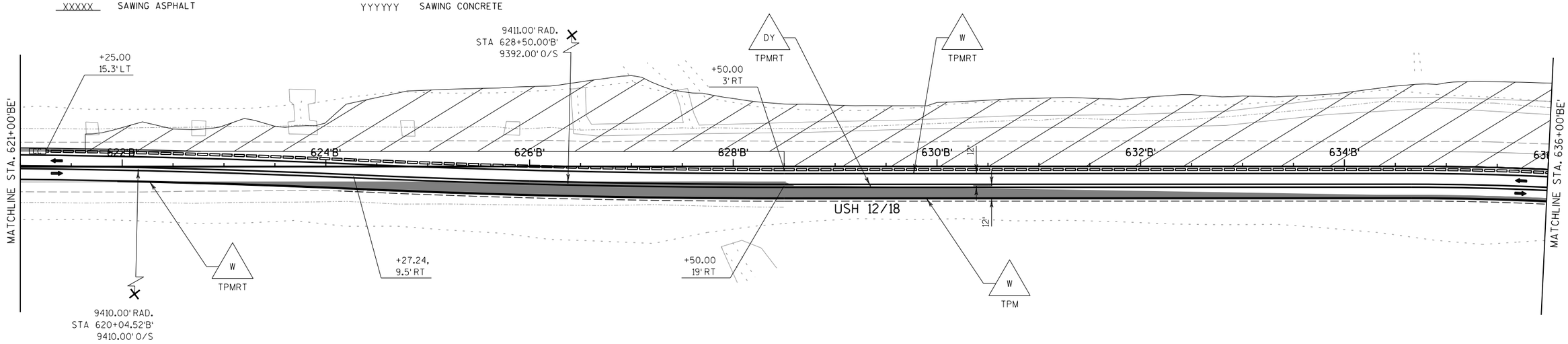


SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - USH 12/18	SHEET 205	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	YYYYYY SAWING CONCRETE
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE



NOTE

TRANSITION TEMPORARY WIDENING CROSS SLOPE FROM 2% TO 4% TO MATCH THE CROSS SLOPE OF THE PROPOSED SHOULDER BETWEEN STATION 627+70'B' AND STATION 628+50'B'

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - USH 12/18	SHEET 206	E

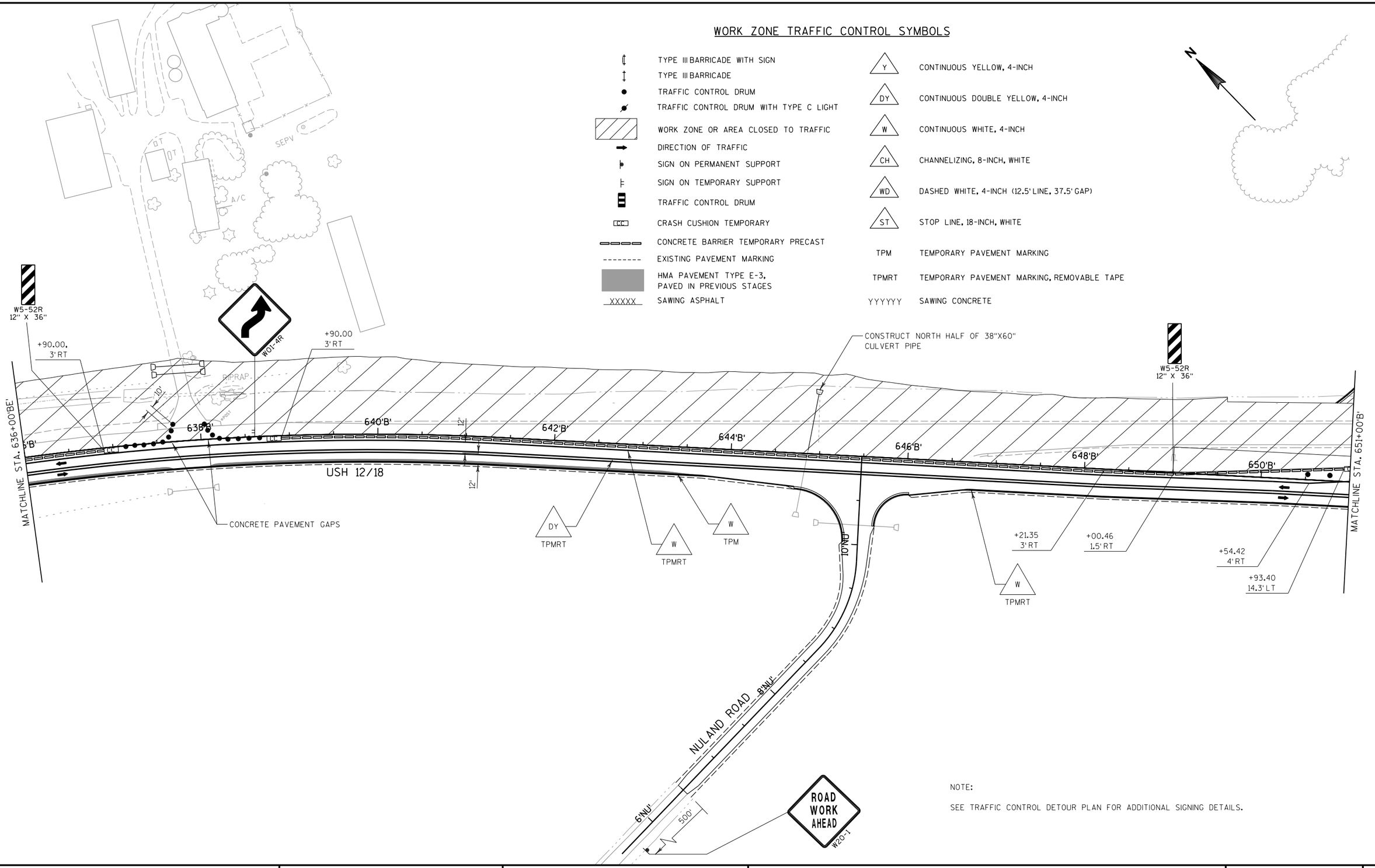
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WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE

N



NOTE:

SEE TRAFFIC CONTROL DETOUR PLAN FOR ADDITIONAL SIGNING DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - USH 12/18	SHEET 207	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025410_tc_S4.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

2

MATCHLINE STA. 2005+00'JB'

W
TPM

2004'JB'

JUG RAMP B

W01-1

Y
TPMRT

+96.52,
8'RT

25' TYP.

+20.85,
2.24'RT

STOP
R1-1
36" X 36"

2002'JB'

W
TPMRT

652+04.54
41'LT

CONCRETE PAVEMENT GAPS

652+54.39
61'LT

20'

20'

R40'

R60'

MATCHLINE STA. 651+00'B'

652'B'

654'B'

656'B'

658'B'

660'B'

662'B'

664'B'

666

MATCHLINE STA. 666+00'B'

12'

12'

USH 12/18

ST
TPMRT

W01-7
48" X 24"

ROAD
CLOSED
R11-2
48" X 30"

+71.00,
END CONCRETE
BARRIER SINGLE SLOPE

+21.40,
4'RT

DY
TPMRT

W
TPMRT

SHAUL LN

EXISTING STH 73

629

629

829

829

624

RIPRAP

RIPRAP

RIPRAP

SIGN

B-13-801

DY
TPMRT

W
TPMRT

JCT
73
J1-1
24" X 39"

SOUTH
73
J2-1
24" X 57"

ROAD
CLOSED
R11-2
48" X 30"

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
--------	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

NOTES:
AT THE BEGINING OF STAGE 4 COMPLETE THE JUG RAMP B CONNECTION WITH USH 12/18 PRIOR TO OPENING TO TRAFFIC ON JUG RAMP B.

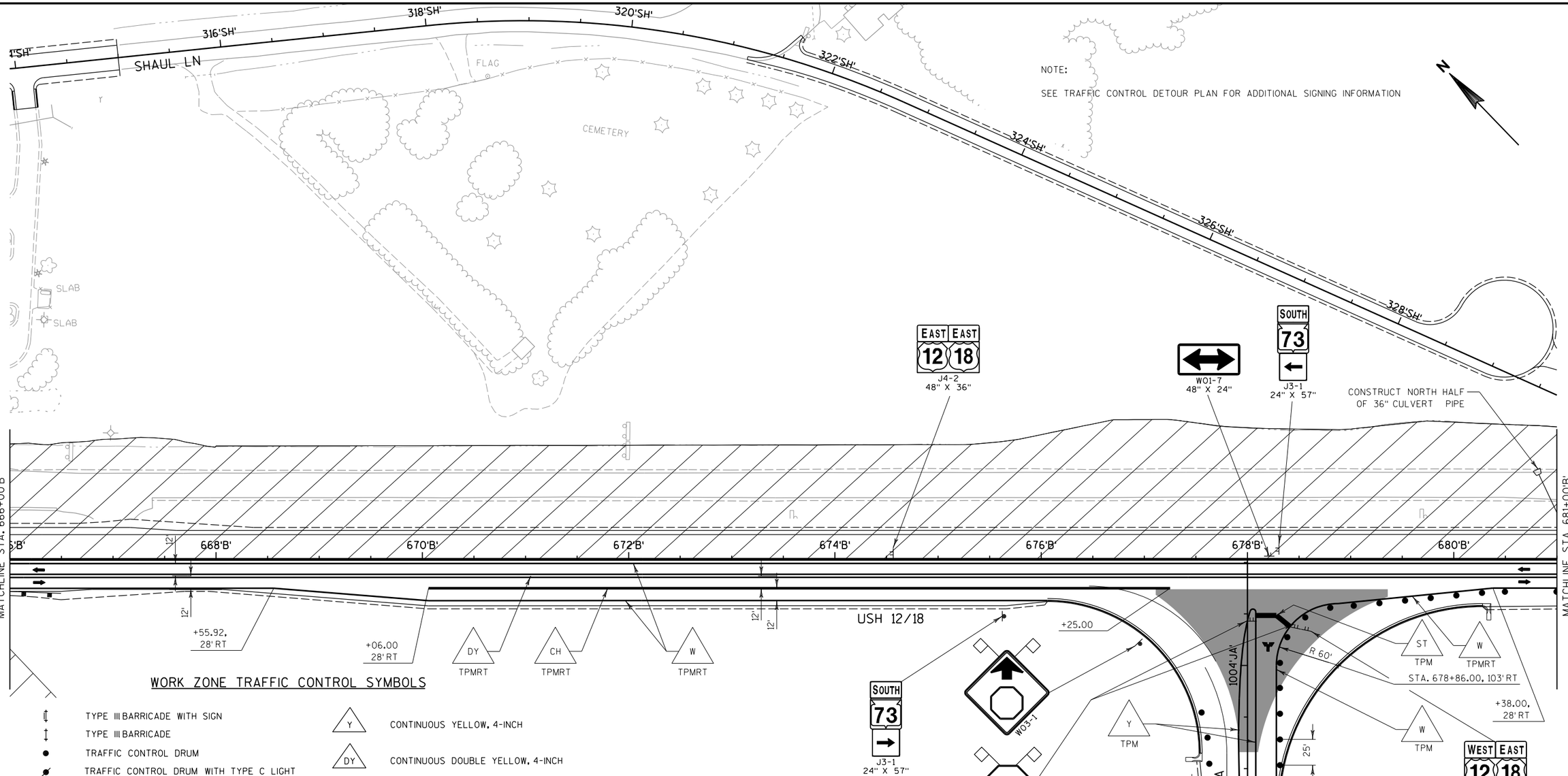
* REMOVE BARRICADES SIGNS AND DRUMS BLOCKING THE INTERSECTION AT JUGHANDLE RAMP B AND USH 12/18 AFTER CONNECTION HAS BEEN COMPLETED.

PLACE PERMANENT SIGINING AND PAVEMENT MARKING ON SHAUL LANE PRIOR TO OPENING TO TRAFFIC IN STAGE 4. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

SEE TRAFFIC CONTROL DETOUR PLAN FOR ADDITIONAL SIGNING DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - USH 12/18	SHEET 208	E

2



WORK ZONE TRAFFIC CONTROL SYMBOLS

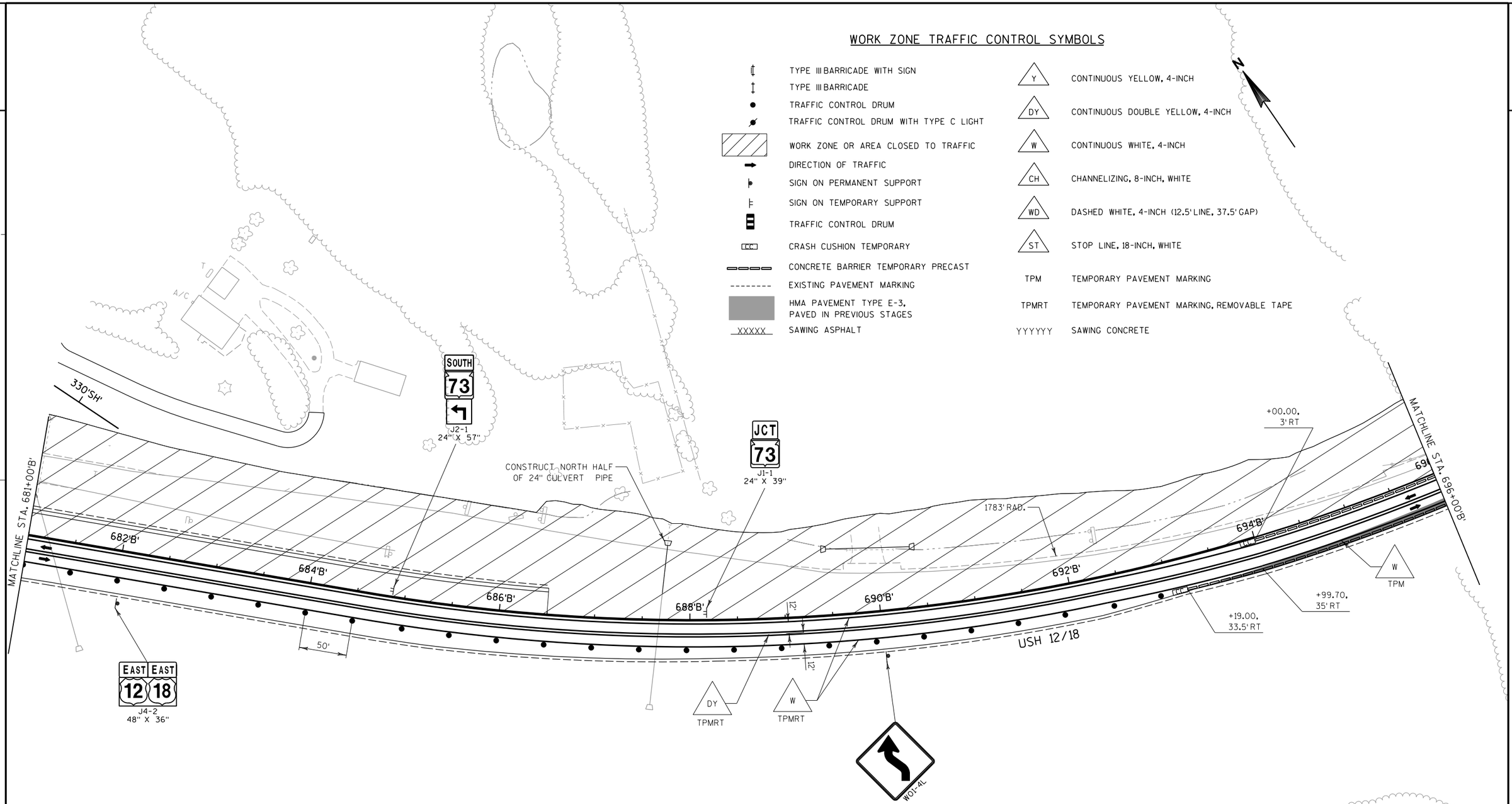
	TYPE III BARRICADE WITH SIGN	Y	CONTINUOUS YELLOW, 4-INCH
	TYPE III BARRICADE	DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
	TRAFFIC CONTROL DRUM	W	CONTINUOUS WHITE, 4-INCH
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	CH	CHANNELIZING, 8-INCH, WHITE
	WORK ZONE OR AREA CLOSED TO TRAFFIC	WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	DIRECTION OF TRAFFIC	ST	STOP LINE, 18-INCH, WHITE
	SIGN ON PERMANENT SUPPORT	TPM	TEMPORARY PAVEMENT MARKING
	SIGN ON TEMPORARY SUPPORT	TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
	TRAFFIC CONTROL DRUM	YYYYYY	SAWING CONCRETE
	CRASH CUSHION TEMPORARY		
	CONCRETE BARRIER TEMPORARY PRECAST		
	EXISTING PAVEMENT MARKING		
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES		
XXXXX	SAWING ASPHALT		

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - USH 12/18	SHEET 209	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE



NOTE:

SEE TRAFFIC CONTROL DETOUR PLAN FOR ADDITIONAL SIGNING INFORMATION

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - USH 12/18	SHEET 210 E

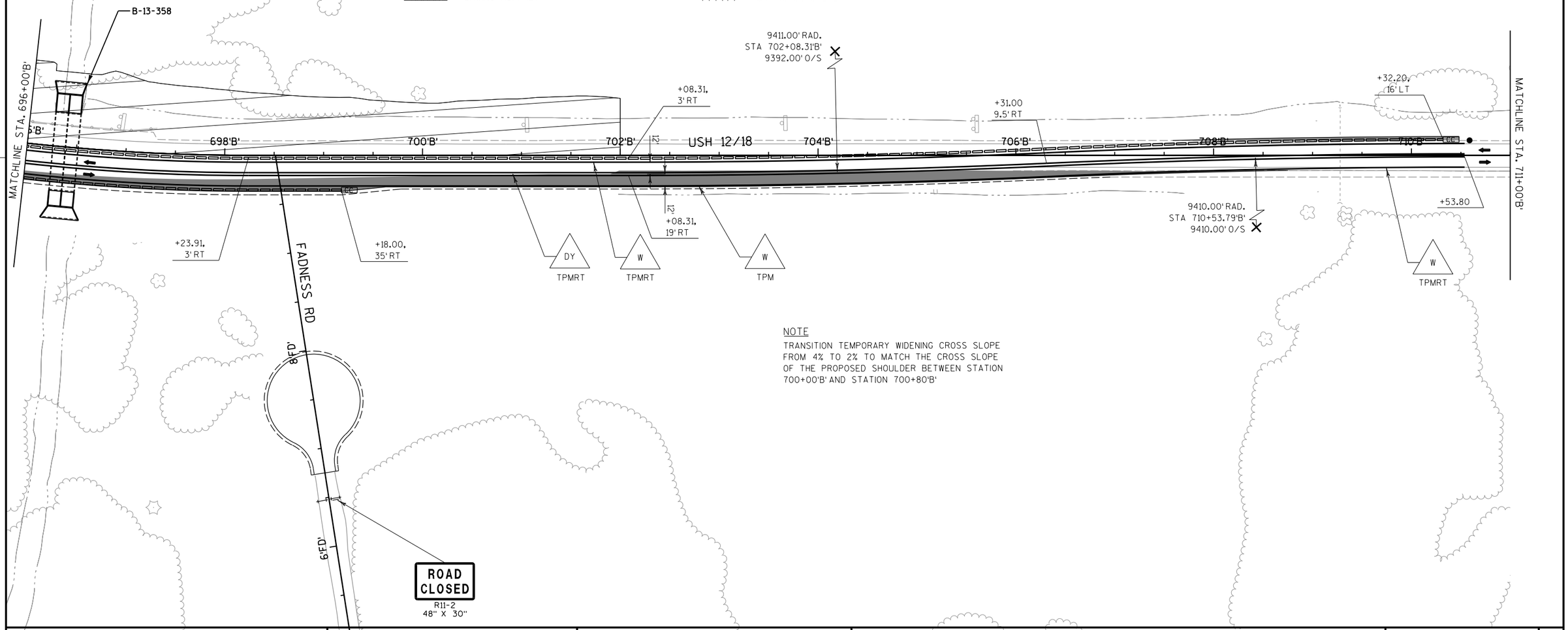
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WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE

N



NOTE

TRANSITION TEMPORARY WIDENING CROSS SLOPE FROM 4% TO 2% TO MATCH THE CROSS SLOPE OF THE PROPOSED SHOULDER BETWEEN STATION 700+00'B' AND STATION 700+80'B'

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - USH 12/18	SHEET 211	E

2

2

N

SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

W01-4L

ROAD WORK 500 FT
W20-1

ROAD WORK 1000 FT
W20-1

ROAD WORK AHEAD
W20-1

500'

1000'

MATCHLINE STA. 711+00'B'

712'B' 714'B' 716'B' 718'B' 720'B' 722'B'

USH 12/18

END ROAD WORK
G20-2A
48" X 24"

CLEAR VIEW ROAD

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
--------	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 4 - USH 12/18	SHEET 212	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025415_tc_S4.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

STAGE 5A

MAINTENANCE OF TRAFFIC

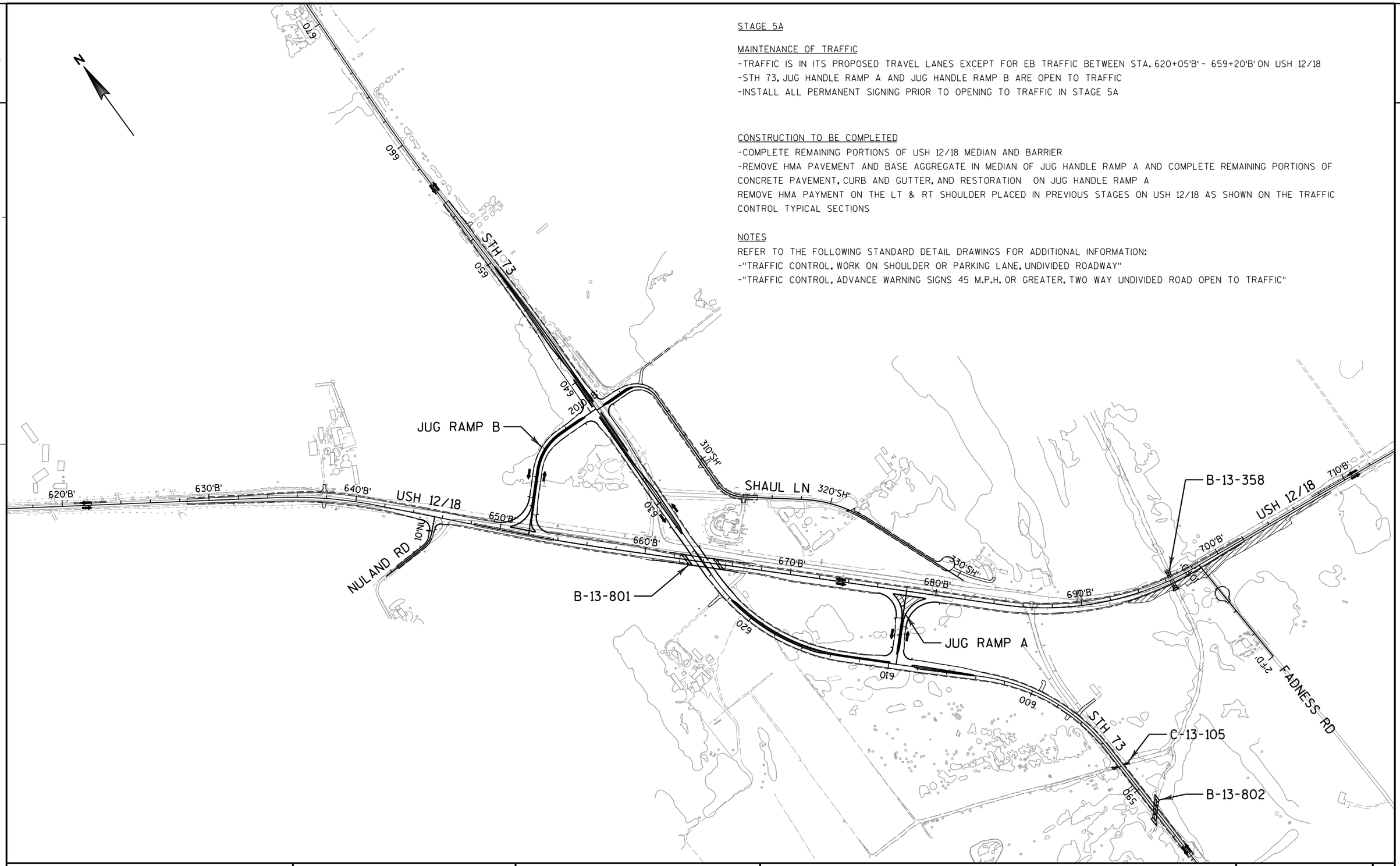
-TRAFFIC IS IN ITS PROPOSED TRAVEL LANES EXCEPT FOR EB TRAFFIC BETWEEN STA. 620+05'B' - 659+20'B' ON USH 12/18
-STH 73, JUG HANDLE RAMP A AND JUG HANDLE RAMP B ARE OPEN TO TRAFFIC
-INSTALL ALL PERMANENT SIGNING PRIOR TO OPENING TO TRAFFIC IN STAGE 5A

CONSTRUCTION TO BE COMPLETED

-COMPLETE REMAINING PORTIONS OF USH 12/18 MEDIAN AND BARRIER
-REMOVE HMA PAVEMENT AND BASE AGGREGATE IN MEDIAN OF JUG HANDLE RAMP A AND COMPLETE REMAINING PORTIONS OF CONCRETE PAVEMENT, CURB AND GUTTER, AND RESTORATION ON JUG HANDLE RAMP A
REMOVE HMA PAYMENT ON THE LT & RT SHOULDER PLACED IN PREVIOUS STAGES ON USH 12/18 AS SHOWN ON THE TRAFFIC CONTROL TYPICAL SECTIONS

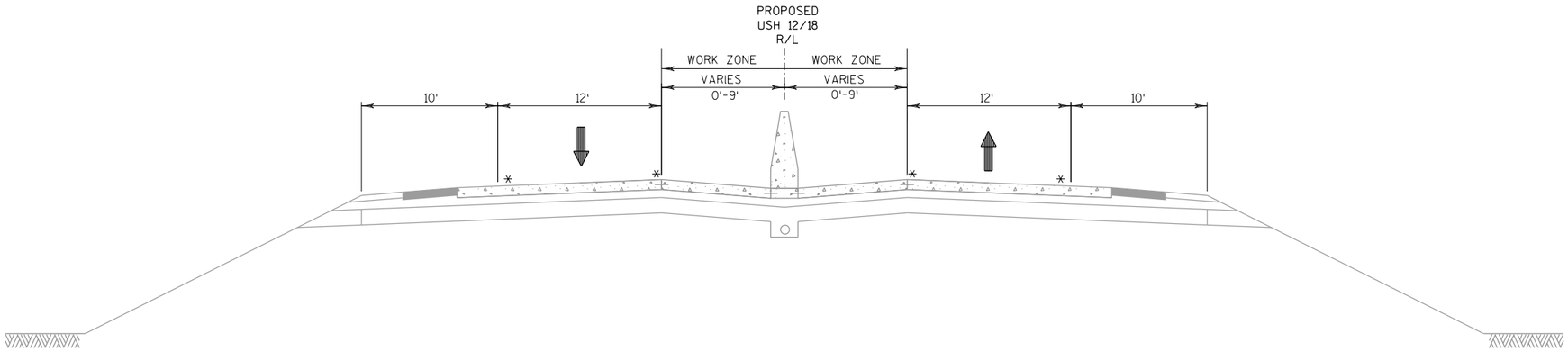
NOTES

REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
-"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"
-"TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

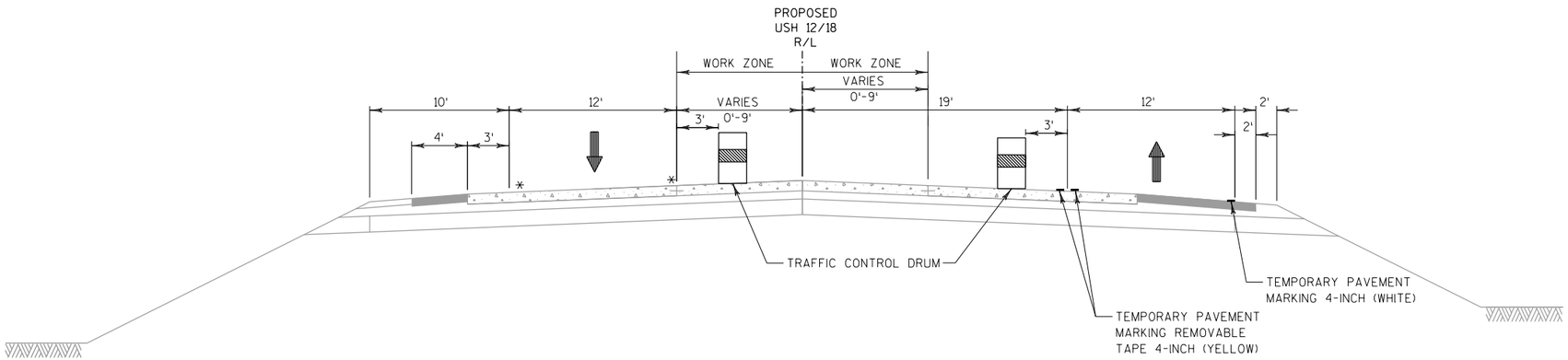


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL: STAGE 5A OVERVIEW	SHEET 213	E

2



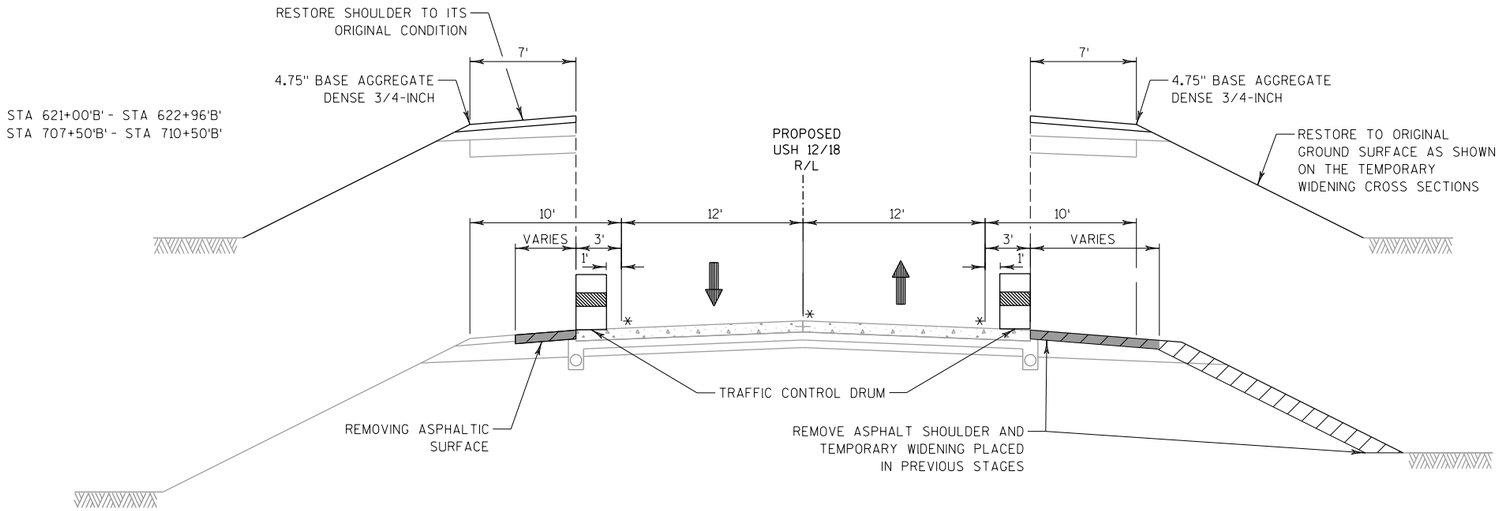
TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 5A
STA 659+20'B' - STA 693+25'B'



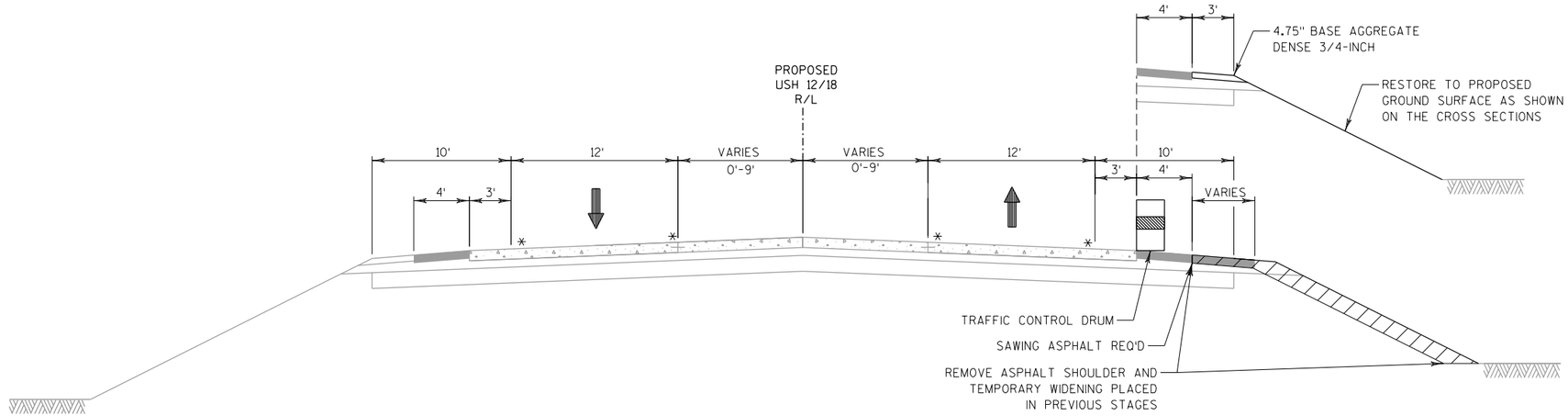
TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 5A
STA 628+50'B' - STA 659+20'B'

NOTE
* SEE PERMANENT SIGNING AND MARKING PLANS FOR PAVEMENT MARKING DETAILS

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION - STAGE 5A	SHEET 214	E



TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 5A
STA 702+00'B' - STA 708+75'B'



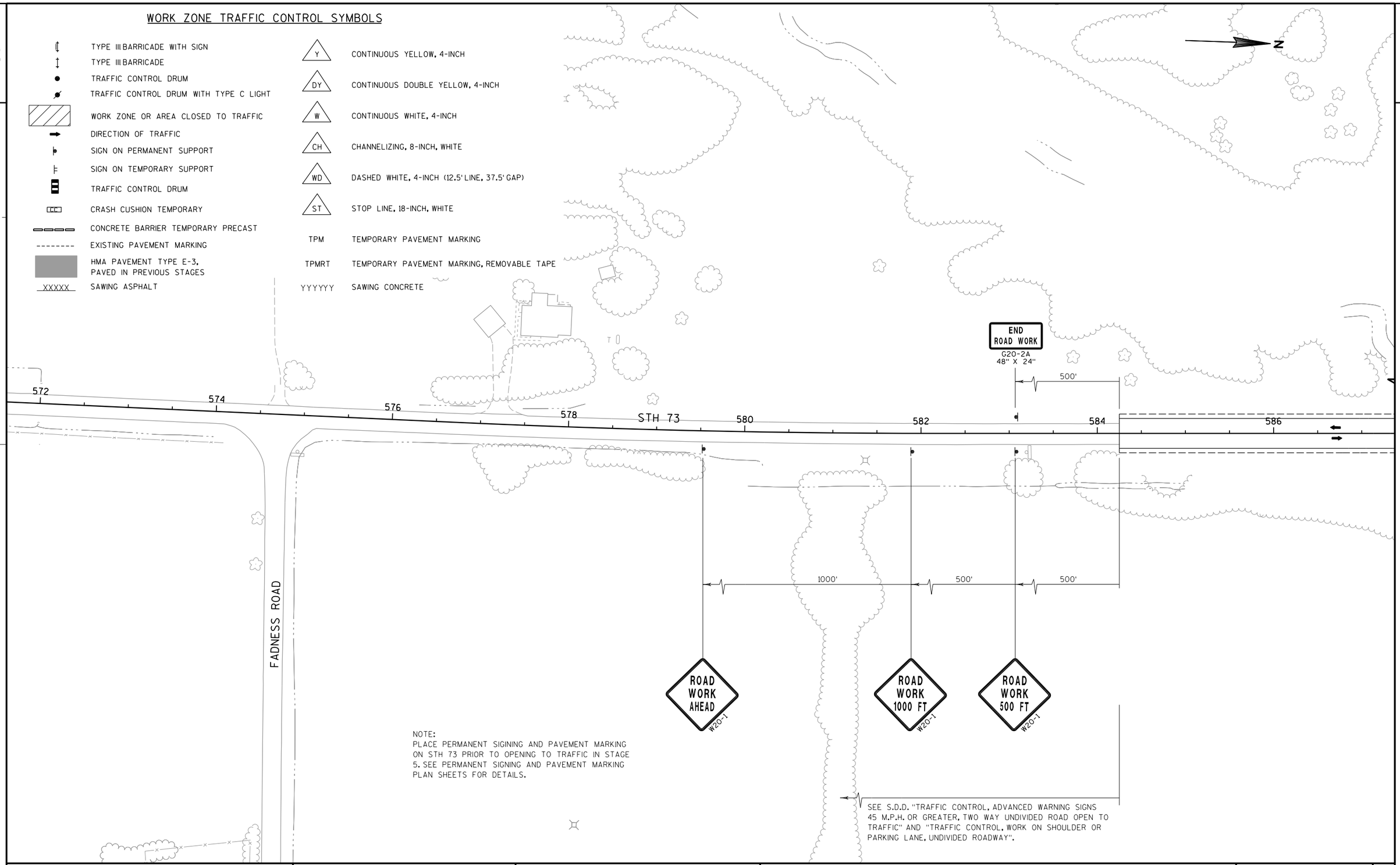
TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 5A
STA 693+25'B' - STA 702+00'B'

NOTE
* SEE PERMANENT SIGNING AND MARKING PLANS FOR PAVEMENT MARKING DETAILS

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE



NOTE:
PLACE PERMANENT SIGINING AND PAVEMENT MARKING ON STH 73 PRIOR TO OPENING TO TRAFFIC IN STAGE 5. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".

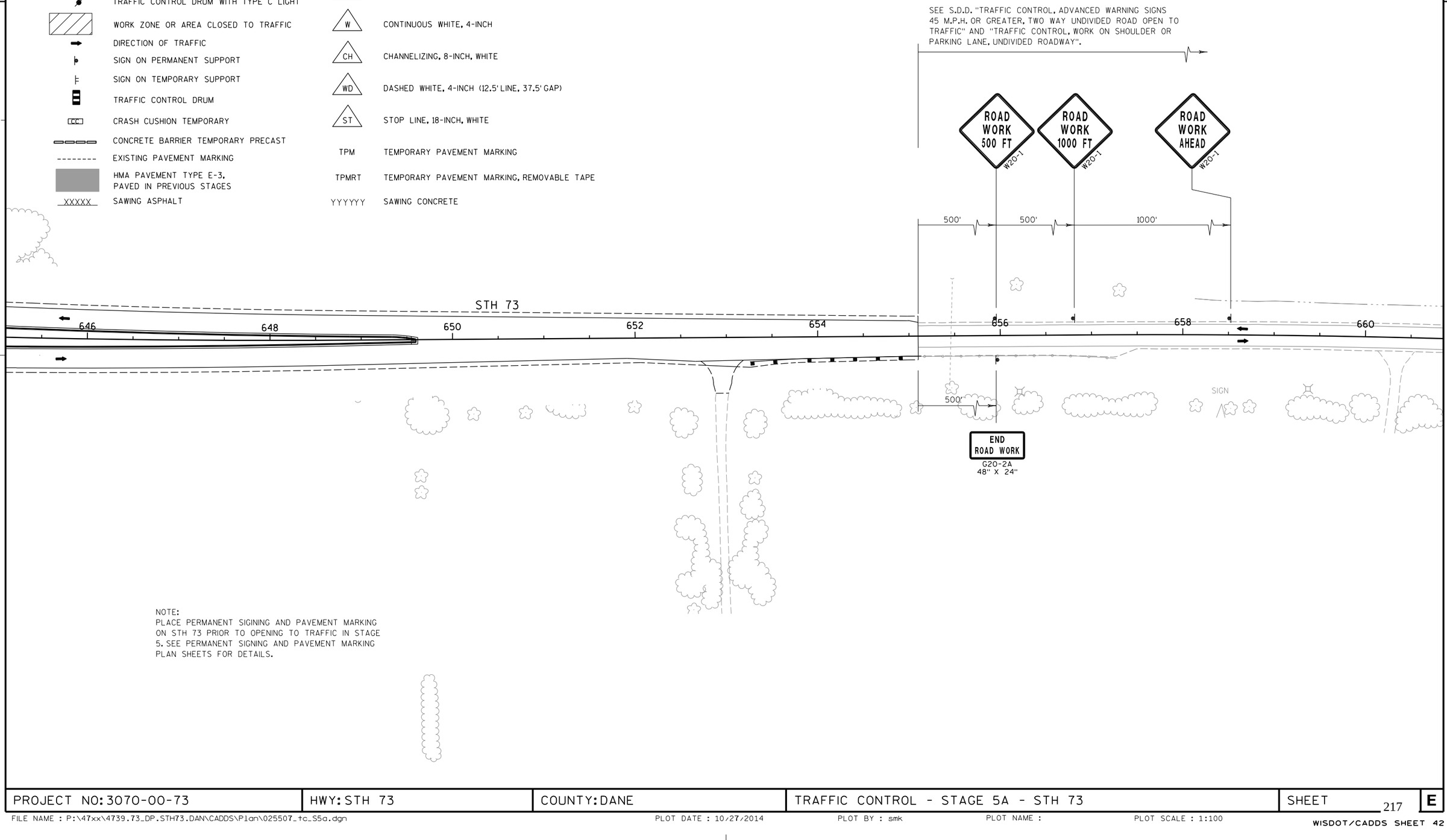
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5A - STH 73	SHEET 216	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	YYYYYY SAWING CONCRETE
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE

N

SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".



NOTE:
PLACE PERMANENT SIGINING AND PAVEMENT MARKING ON STH 73 PRIOR TO OPENING TO TRAFFIC IN STAGE 5. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

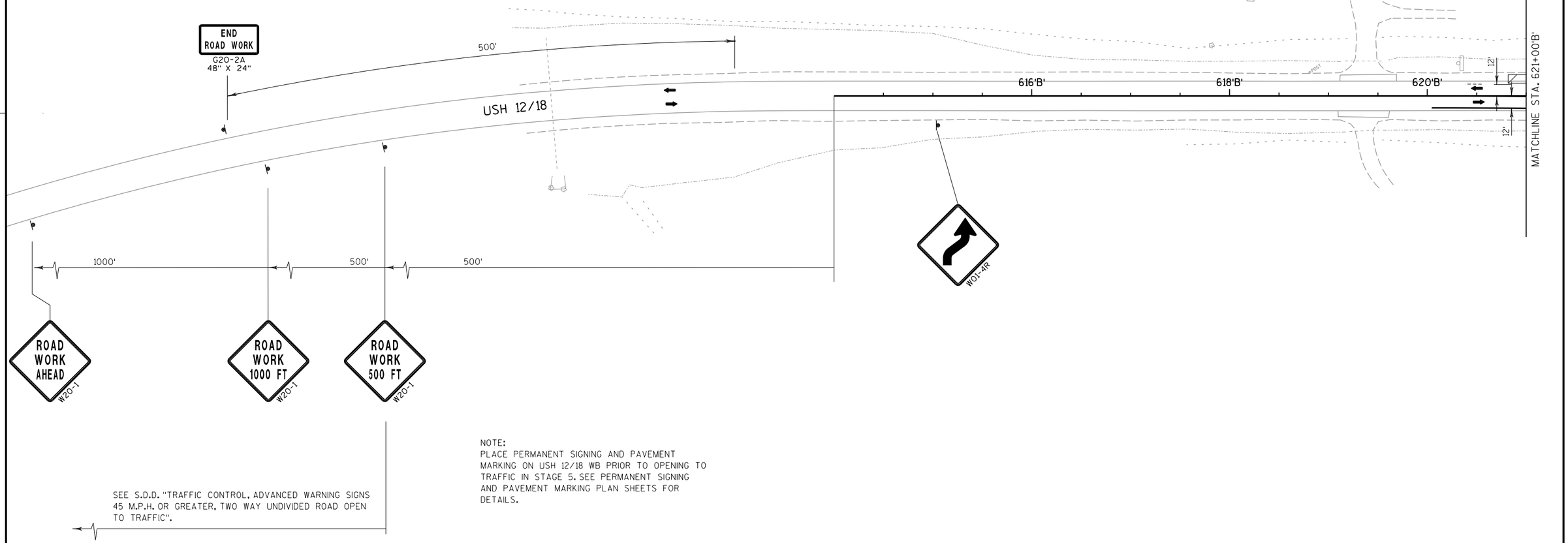
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5A - STH 73	SHEET 217	E

2

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE



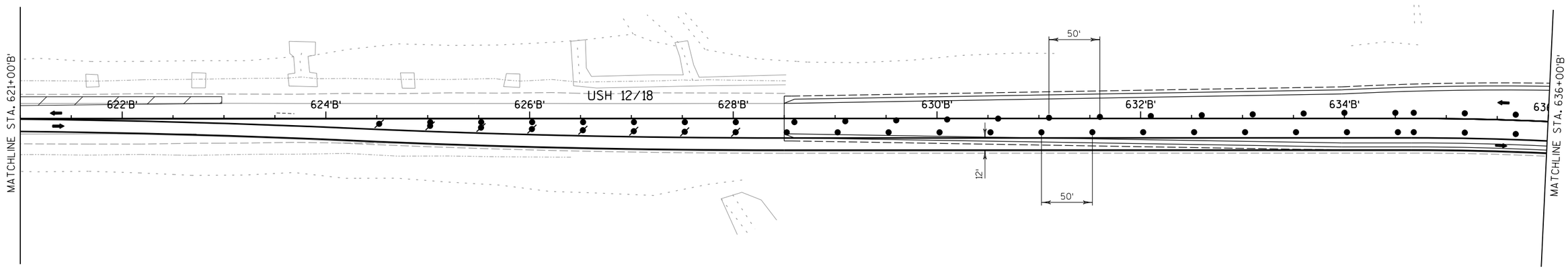
SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

NOTE:
PLACE PERMANENT SIGNING AND PAVEMENT MARKING ON USH 12/18 WB PRIOR TO OPENING TO TRAFFIC IN STAGE 5. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5A - USH 12/18	SHEET 218	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	YYYYYY SAWING CONCRETE
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE



NOTE:
PLACE PERMANENT SIGNING AND PAVEMENT MARKING ON USH 12/18 WB PRIOR TO OPENING TO TRAFFIC IN STAGE 5. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

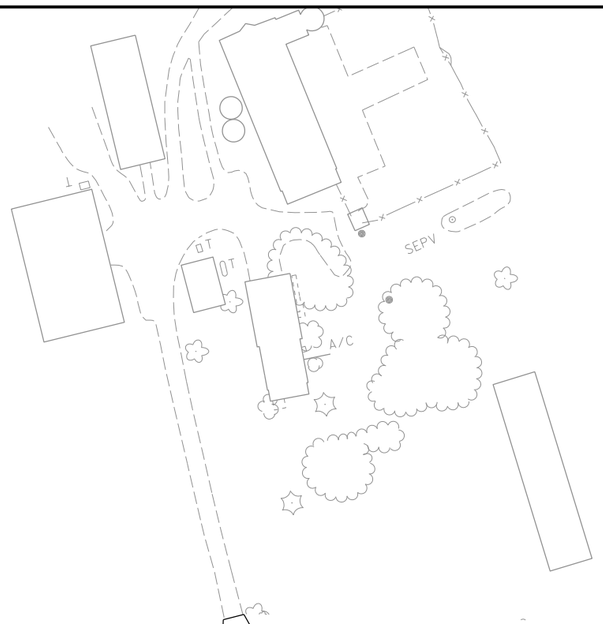
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5A - USH 12/18	SHEET 219	E

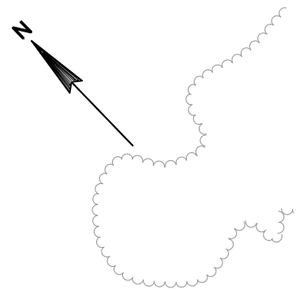
2

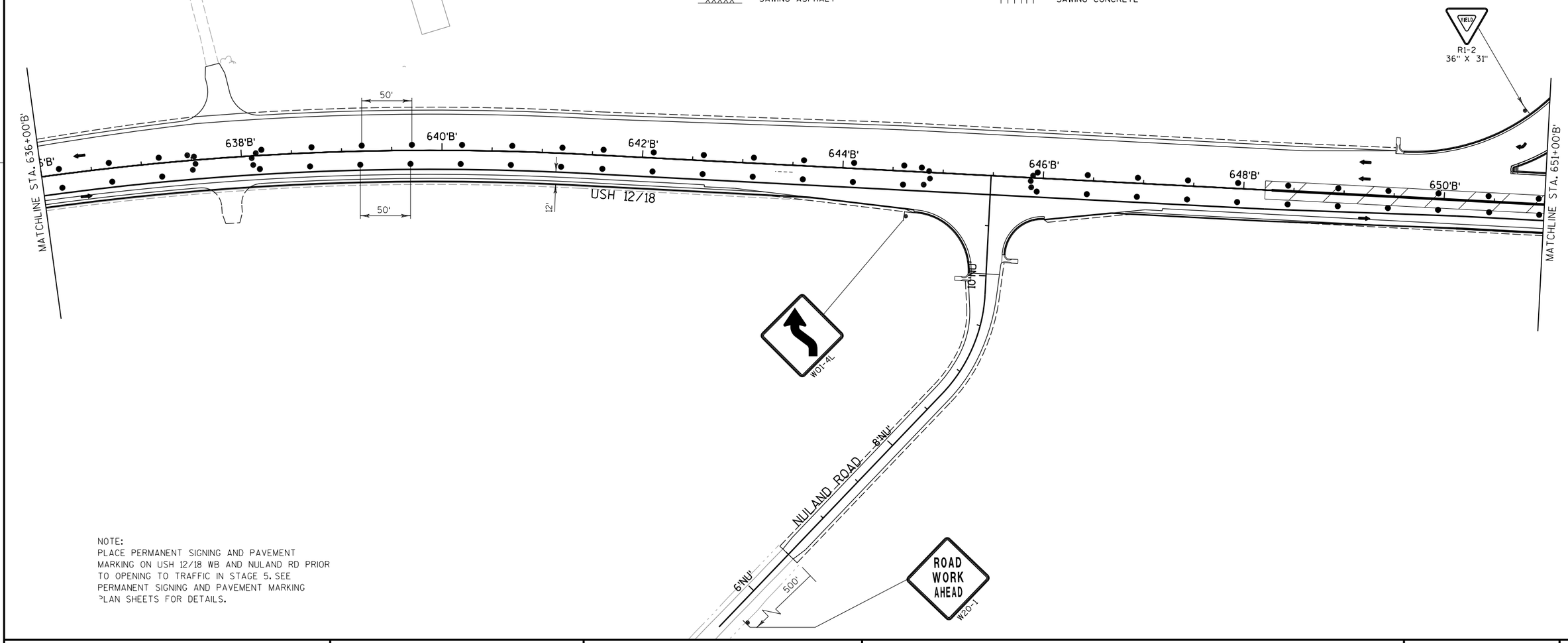
WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE

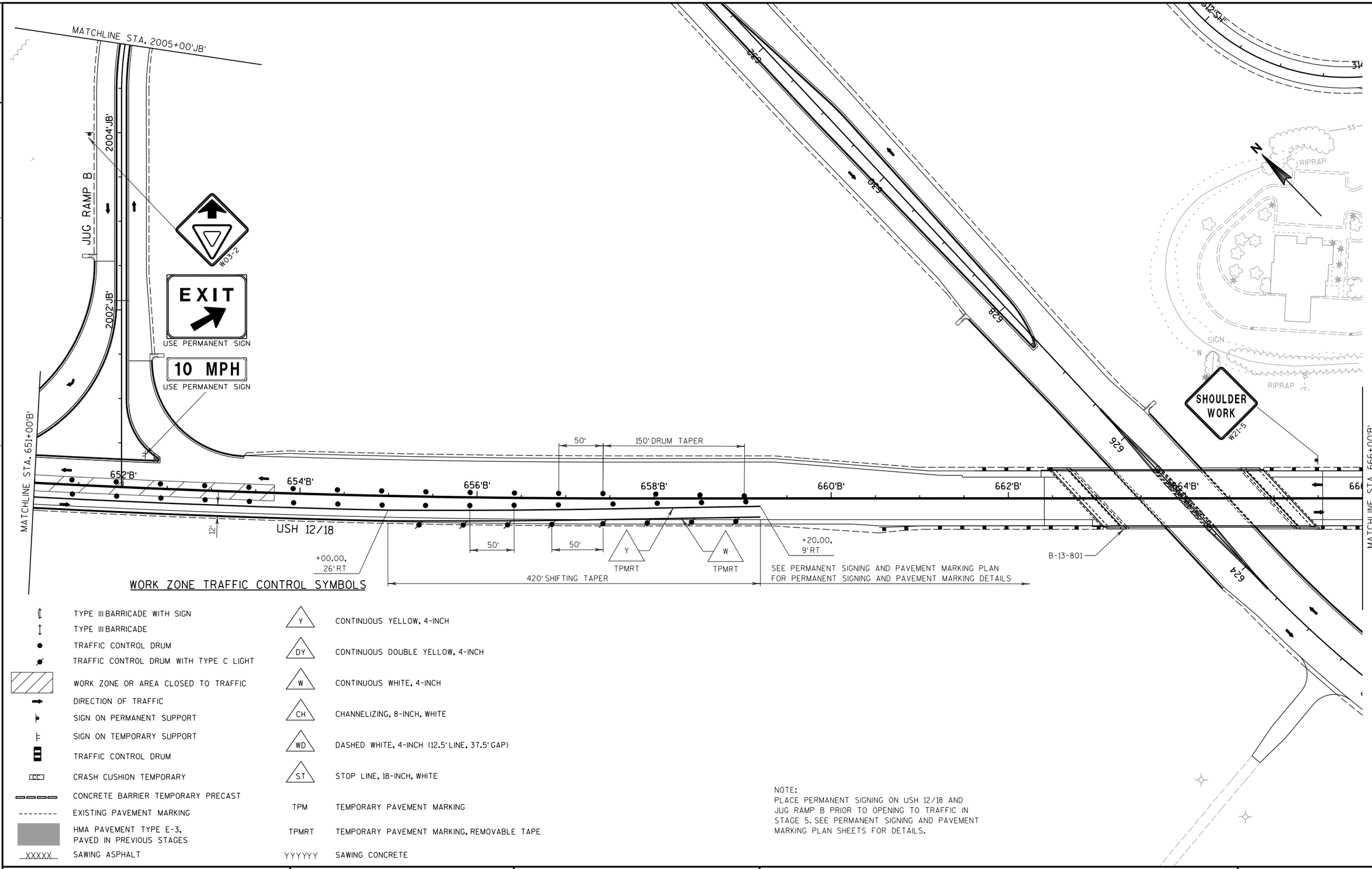






NOTE:
PLACE PERMANENT SIGNING AND PAVEMENT MARKING ON USH 12/18 WB AND NULAND RD PRIOR TO OPENING TO TRAFFIC IN STAGE 5. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5A - USH 12/18	SHEET 220	E



WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	YYYYYY SAWING CONCRETE
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE

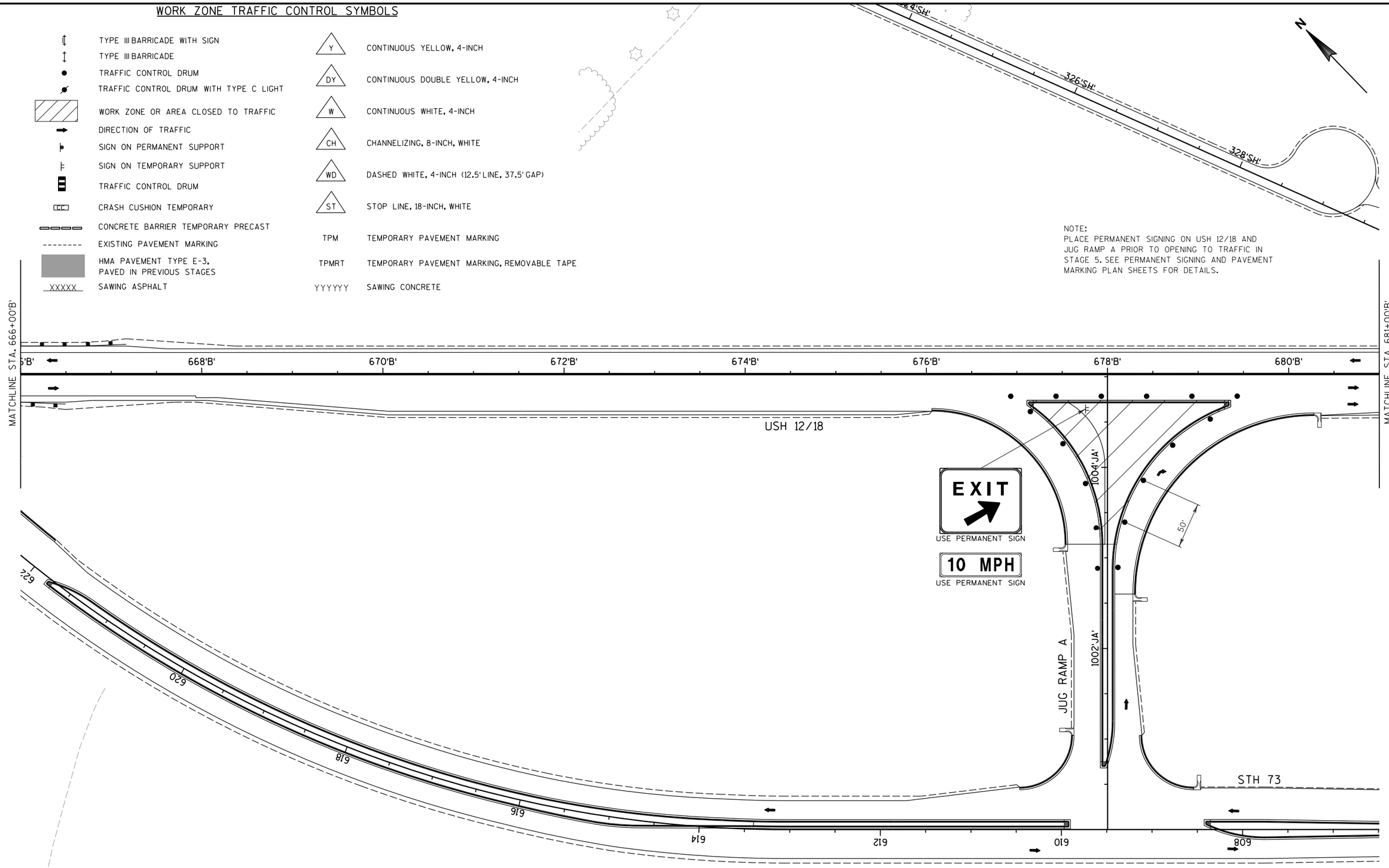
NOTE:
PLACE PERMANENT SIGNING ON USH 12/18 AND JUG RAMP B PRIOR TO OPENING TO TRAFFIC IN STAGE 5. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5A - USH 12/18	SHEET 221	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
SAWING ASPHALT	
	Y — CONTINUOUS YELLOW, 4-INCH
	DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
	W — CONTINUOUS WHITE, 4-INCH
	CH — CHANNELIZING, 8-INCH, WHITE
	WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST — STOP LINE, 18-INCH, WHITE
	TPM — TEMPORARY PAVEMENT MARKING
	TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
	YYYYYY — SAWING CONCRETE

NOTE:
PLACE PERMANENT SIGNING ON USH 12/18 AND JUG RAMP A PRIOR TO OPENING TO TRAFFIC IN STAGE 5. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.



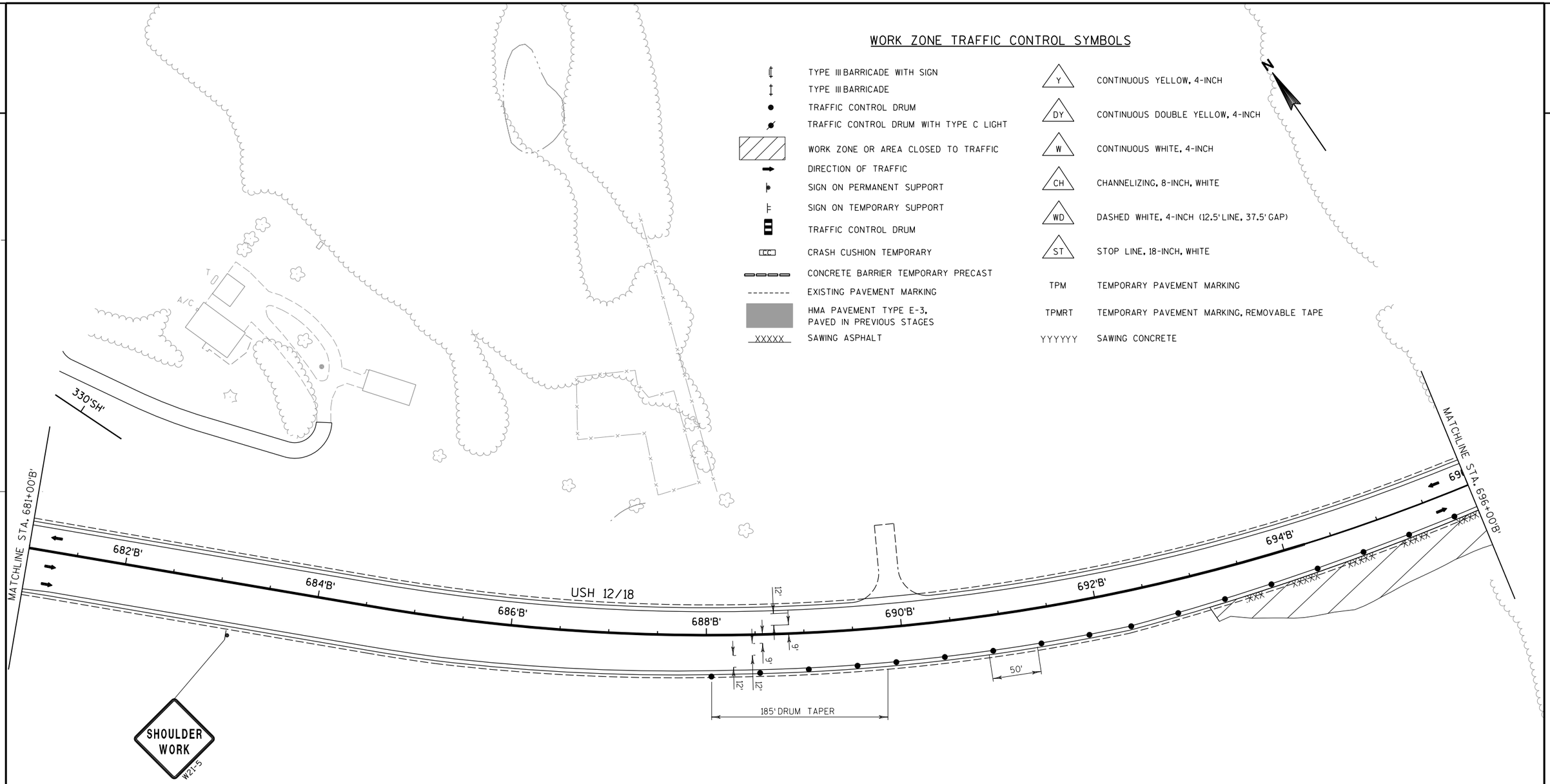
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5A - USH 12/18	SHEET 222	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025512_tc_S5a.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5'LINE, 37.5'GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE



NOTE:
PLACE PERMANENT SIGNING ON USH 12/18 PRIOR TO OPENING TO TRAFFIC IN STAGE 5. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5A - USH 12/18	SHEET 223	E

2

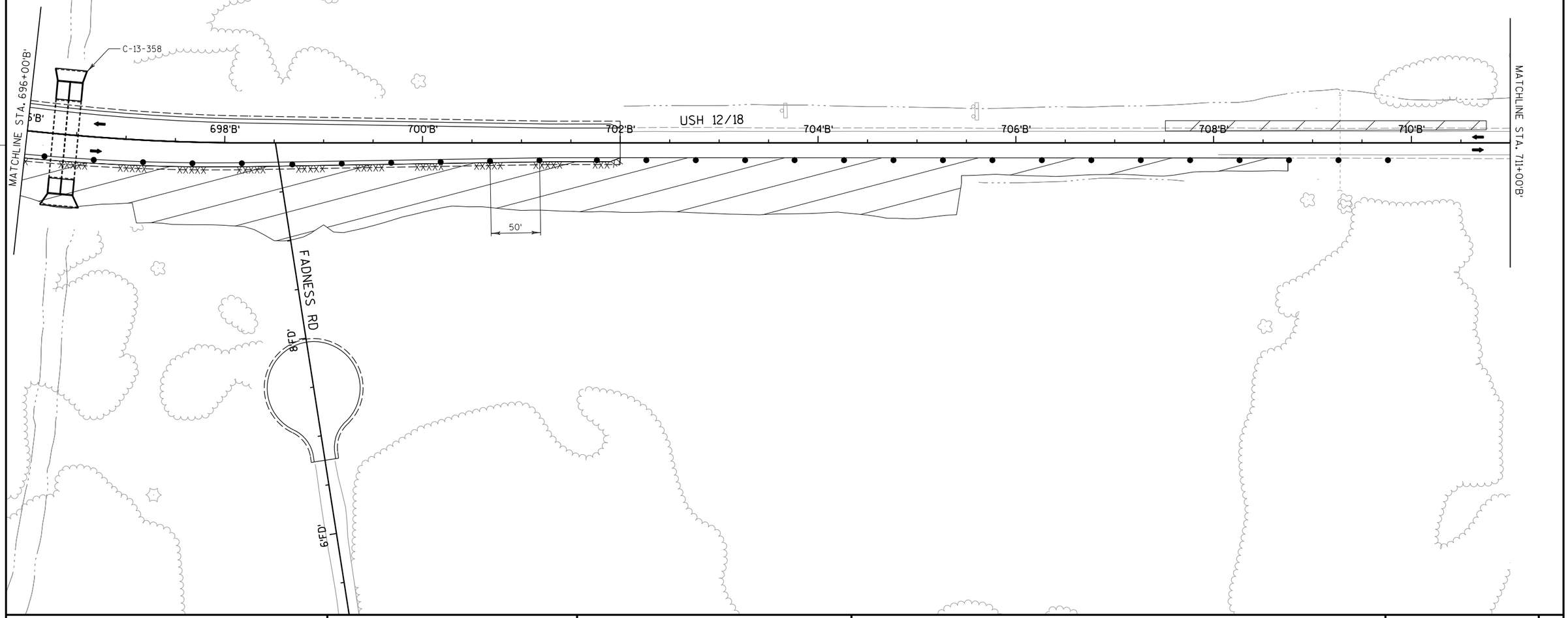
WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
CCC	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

NOTE:
PLACE PERMANENT SIGNING ON USH 12/18 PRIOR TO OPENING TO TRAFFIC IN STAGE 5. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

N



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5A - USH 12/18	SHEET 224	E

2

NOTE:
PLACE PERMANENT SIGNING ON USH 12/18 PRIOR TO OPENING TO TRAFFIC IN STAGE 5. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

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SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

ROAD WORK 500 FT
W20-1

ROAD WORK 1000 FT
W20-1

ROAD WORK AHEAD
W20-1

500'

1000'

MATCHLINE STA. 711+00'B'

712'B' 714'B' 716'B' 718'B' USH 12/18 720'B' 722'B'

END ROAD WORK
G20-2A
48" X 24"

CLEAR VIEW ROAD

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y CONTINUOUS YELLOW, 4-INCH
- DY CONTINUOUS DOUBLE YELLOW, 4-INCH
- W CONTINUOUS WHITE, 4-INCH
- CH CHANNELIZING, 8-INCH, WHITE
- WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST STOP LINE, 18-INCH, WHITE
- TPM TEMPORARY PAVEMENT MARKING
- TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5A - USH 12/18	SHEET 225	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025515_tc_S5a.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

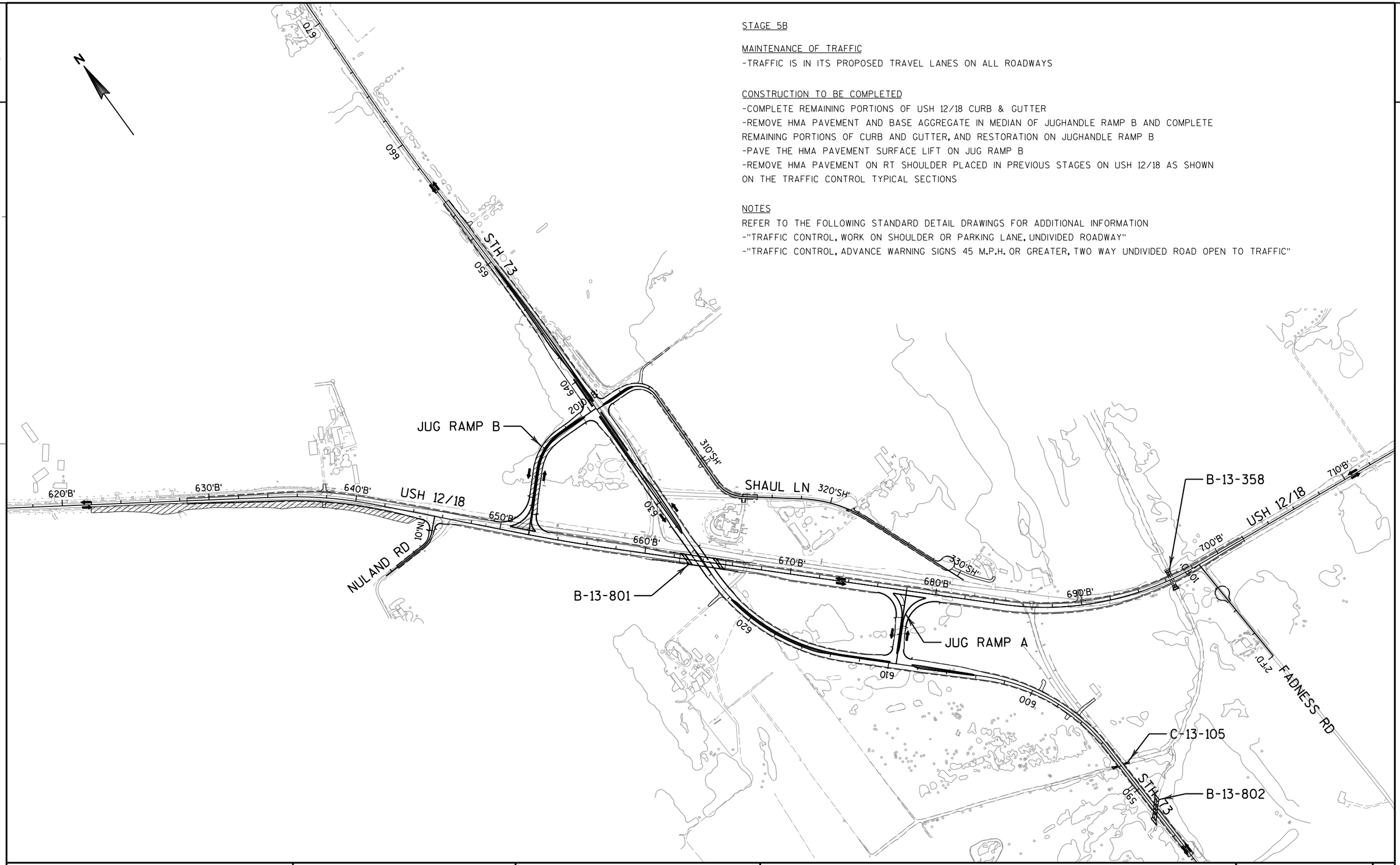
WISDOT/CADDS SHEET 42

STAGE 5B

MAINTENANCE OF TRAFFIC
-TRAFFIC IS IN ITS PROPOSED TRAVEL LANES ON ALL ROADWAYS

CONSTRUCTION TO BE COMPLETED
-COMPLETE REMAINING PORTIONS OF USH 12/18 CURB & GUTTER
-REMOVE HMA PAVEMENT AND BASE AGGREGATE IN MEDIAN OF JUGHANDLE RAMP B AND COMPLETE REMAINING PORTIONS OF CURB AND GUTTER, AND RESTORATION ON JUGHANDLE RAMP B
-PAVE THE HMA PAVEMENT SURFACE LIFT ON JUG RAMP B
-REMOVE HMA PAVEMENT ON RT SHOULDER PLACED IN PREVIOUS STAGES ON USH 12/18 AS SHOWN ON THE TRAFFIC CONTROL TYPICAL SECTIONS

NOTES
REFER TO THE FOLLOWING STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION
-"TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"
-"TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

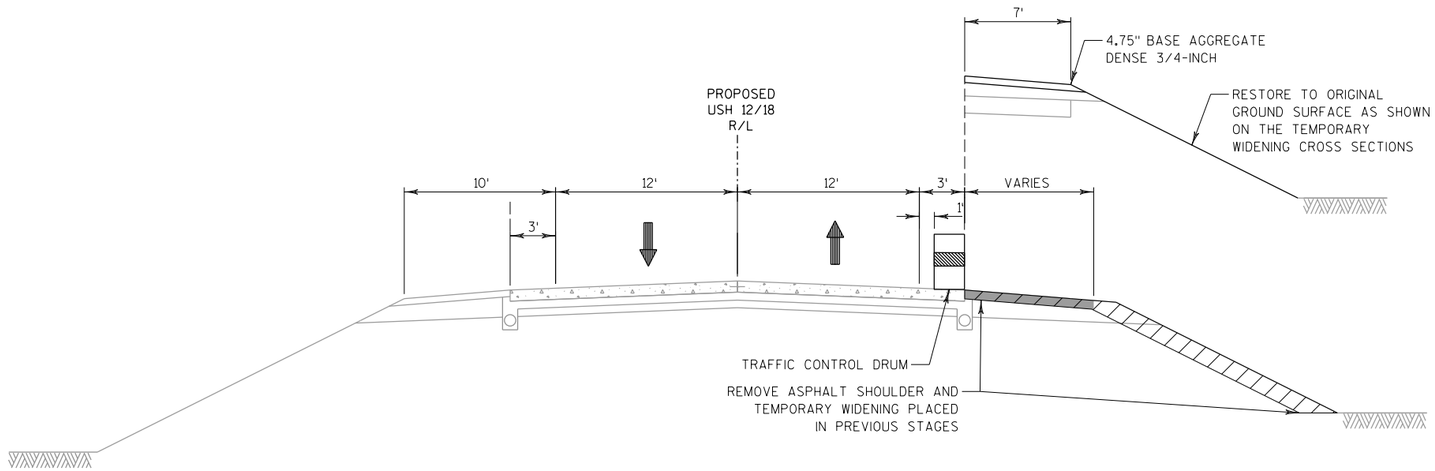


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL: STAGE 5B OVERVIEW	SHEET 226	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025601_tc_ov.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : NTS

WISDOT/CADDS SHEET 42

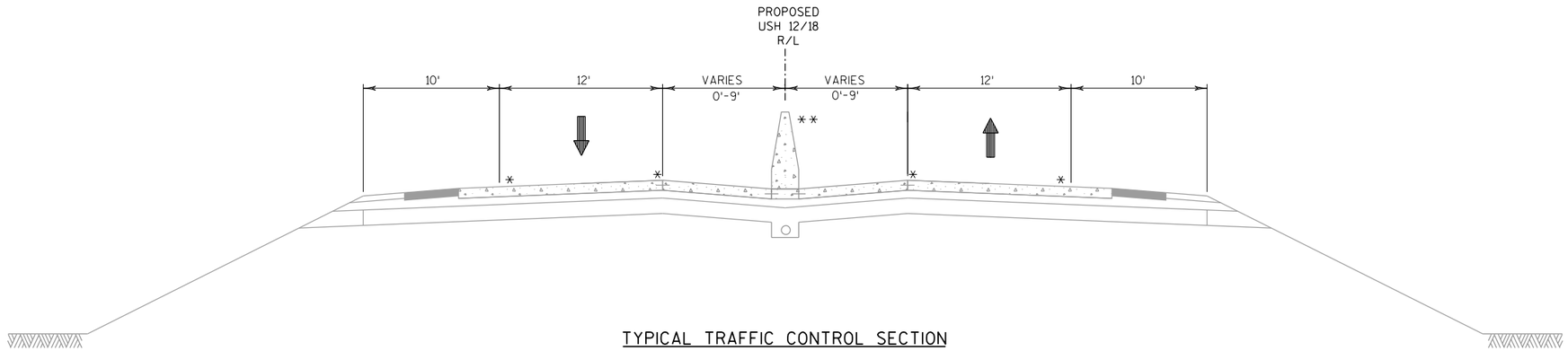
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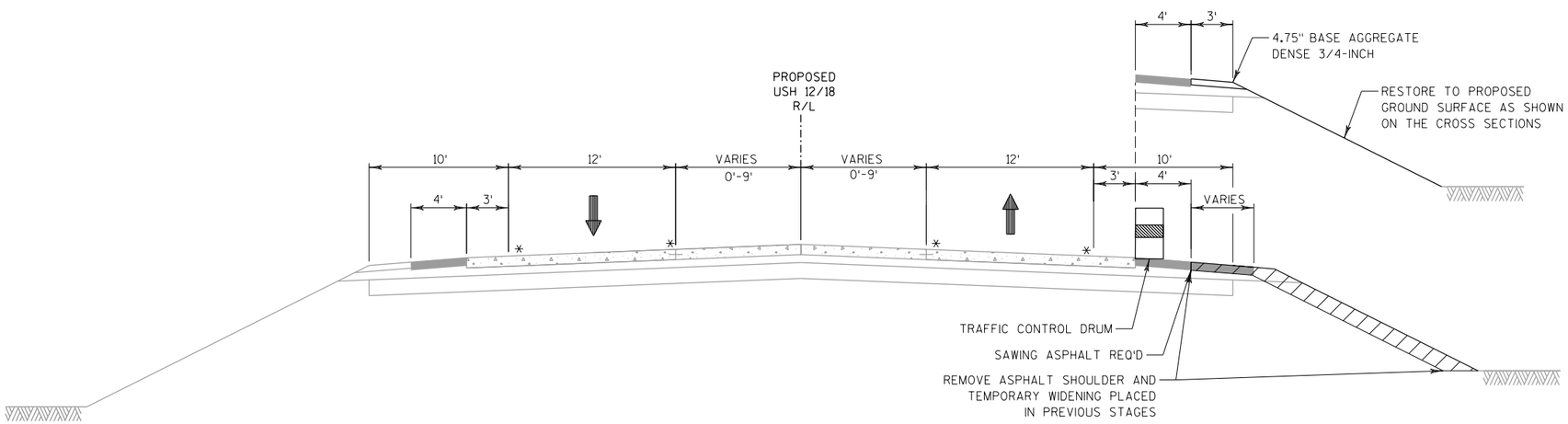
TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 5B
STA 622+00'B' - STA 628+50'B'

NOTE
* SEE PERMANENT SIGNING AND MARKING PLANS FOR PAVEMENT MARKING DETAILS

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION - STAGE 5B	SHEET 227	E



TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 5B
STA 643+80'B' - STA 702+00'B'



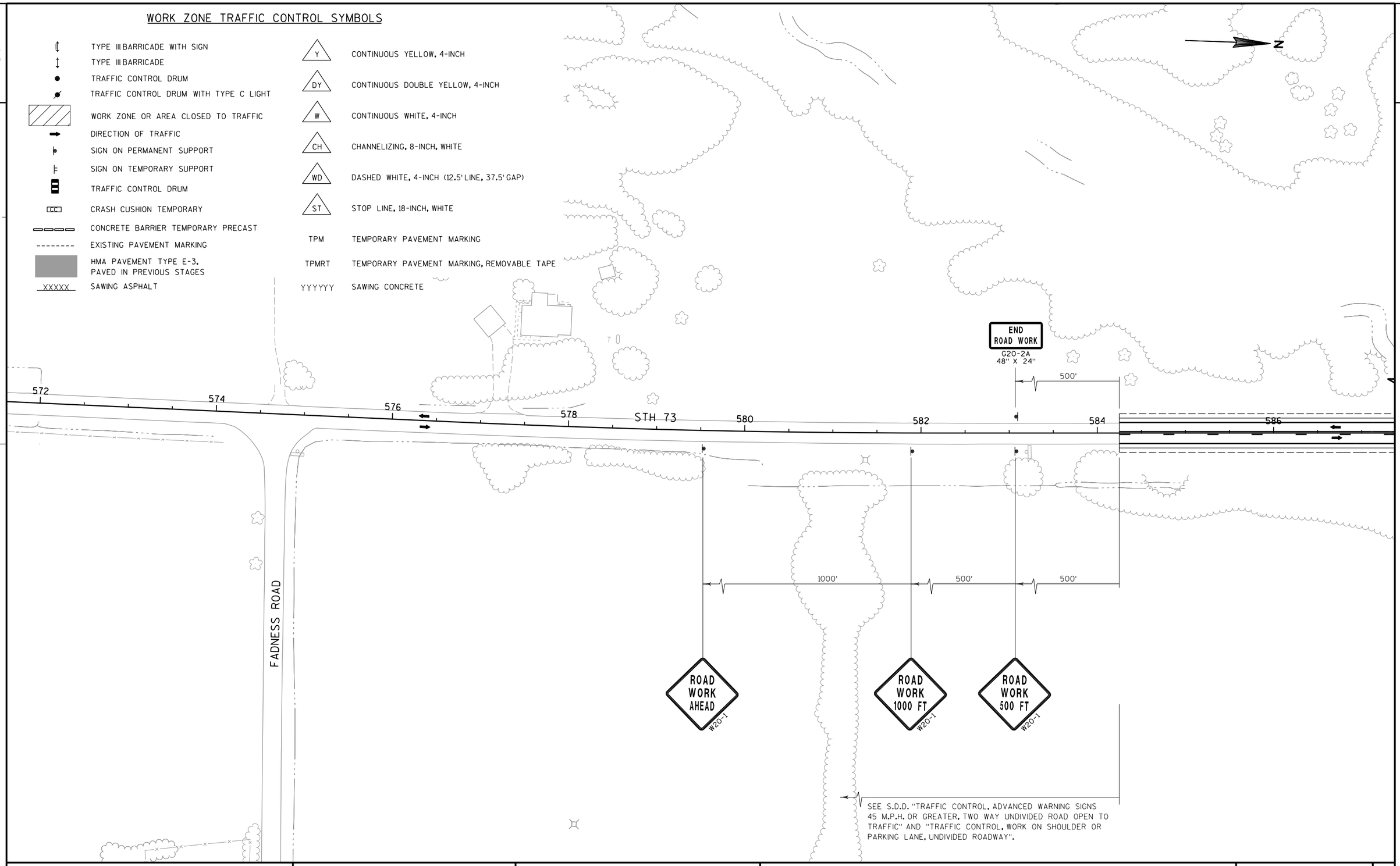
TYPICAL TRAFFIC CONTROL SECTION
USH 12/18 STAGE 5B
STA 628+50'B' - STA 643+80'B'

NOTE
* SEE PERMANENT SIGNING AND MARKING PLANS FOR PAVEMENT MARKING DETAILS
** CONCRETE BARRIER TYPE S36 LOCATED BETWEEN STA 648+50'B' - STA 694+00'B'

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL TYPICAL SECTION - STAGE 5B	SHEET 228	E

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT
Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5B - STH 73	SHEET 229	E

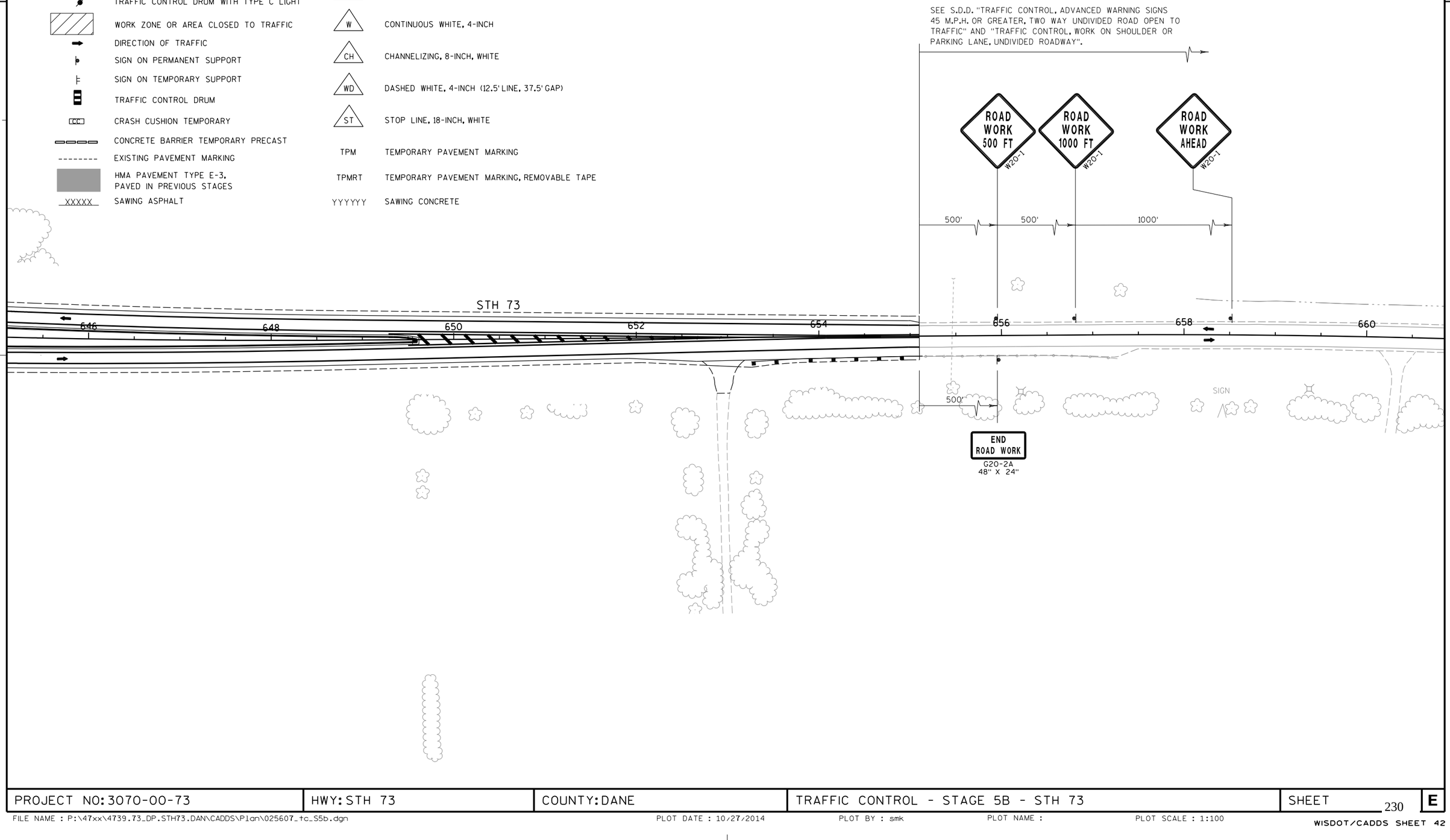
FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025603_tc_S5b.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	CONTINUOUS YELLOW, 4-INCH
TYPE III BARRICADE	CONTINUOUS DOUBLE YELLOW, 4-INCH
TRAFFIC CONTROL DRUM	CONTINUOUS WHITE, 4-INCH
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	CHANNELIZING, 8-INCH, WHITE
WORK ZONE OR AREA CLOSED TO TRAFFIC	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
DIRECTION OF TRAFFIC	STOP LINE, 18-INCH, WHITE
SIGN ON PERMANENT SUPPORT	TEMPORARY PAVEMENT MARKING
SIGN ON TEMPORARY SUPPORT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
TRAFFIC CONTROL DRUM	SAWING CONCRETE
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
SAWING ASPHALT	

N

SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".



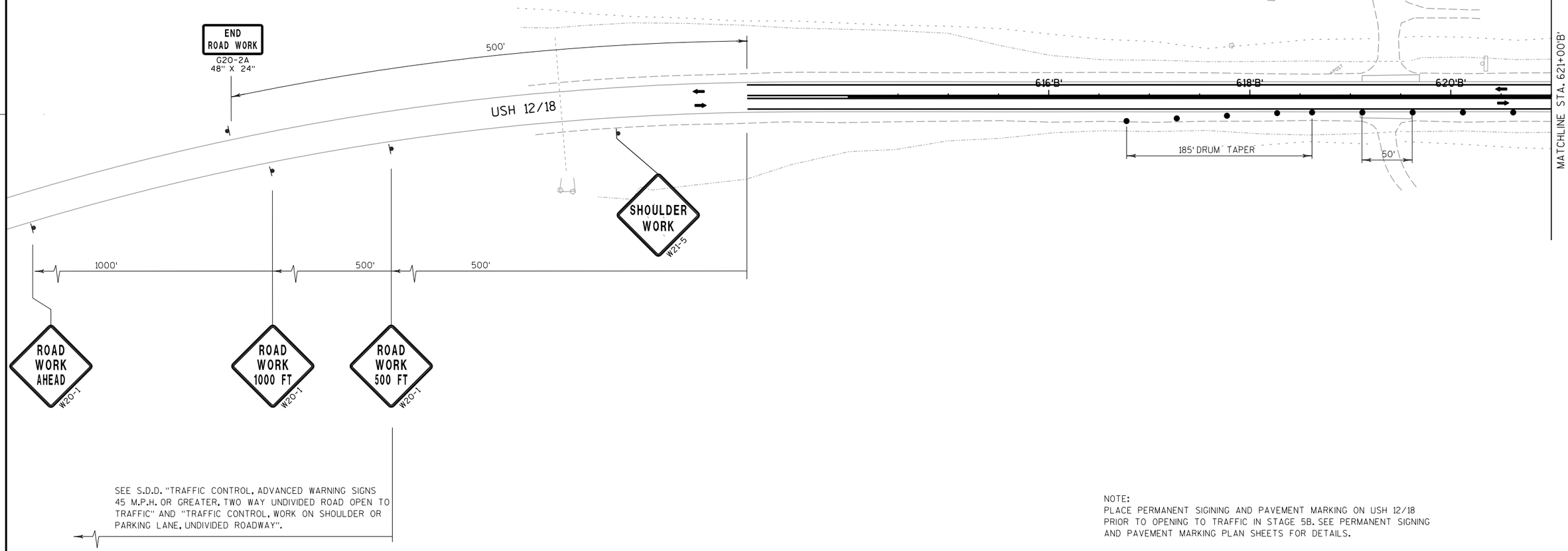
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5B - STH 73	SHEET 230	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025607_tc_S5b.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE



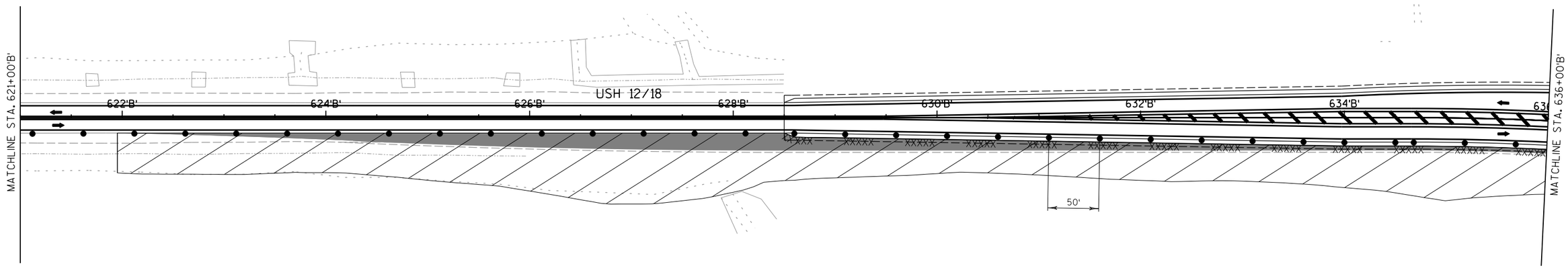
SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY".

NOTE:
PLACE PERMANENT SIGINING AND PAVEMENT MARKING ON USH 12/18 PRIOR TO OPENING TO TRAFFIC IN STAGE 5B. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5B - USH 12/18	SHEET 231	E

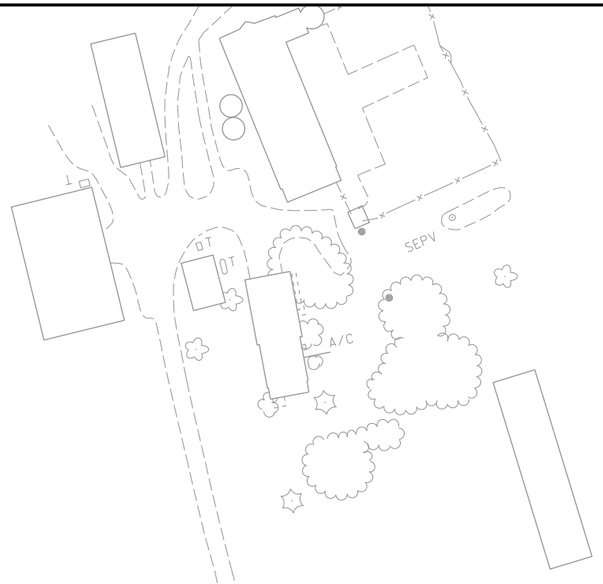
WORK ZONE TRAFFIC CONTROL SYMBOLS

TYPE III BARRICADE WITH SIGN	
TYPE III BARRICADE	
TRAFFIC CONTROL DRUM	
TRAFFIC CONTROL DRUM WITH TYPE C LIGHT	
WORK ZONE OR AREA CLOSED TO TRAFFIC	
DIRECTION OF TRAFFIC	
SIGN ON PERMANENT SUPPORT	
SIGN ON TEMPORARY SUPPORT	
TRAFFIC CONTROL DRUM	
CRASH CUSHION TEMPORARY	
CONCRETE BARRIER TEMPORARY PRECAST	
EXISTING PAVEMENT MARKING	
HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES	
XXXXX SAWING ASPHALT	YYYYYY SAWING CONCRETE
	Y CONTINUOUS YELLOW, 4-INCH
	DY CONTINUOUS DOUBLE YELLOW, 4-INCH
	W CONTINUOUS WHITE, 4-INCH
	CH CHANNELIZING, 8-INCH, WHITE
	WD DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
	ST STOP LINE, 18-INCH, WHITE
	TPM TEMPORARY PAVEMENT MARKING
	TPMRT TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE



NOTE:
PLACE PERMANENT SIGINING AND PAVEMENT MARKING ON USH 12/18 PRIOR TO OPENING TO TRAFFIC IN STAGE 5B. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

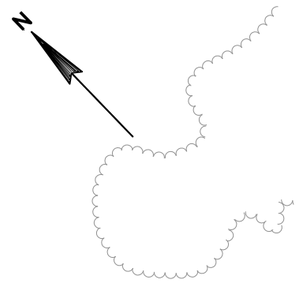
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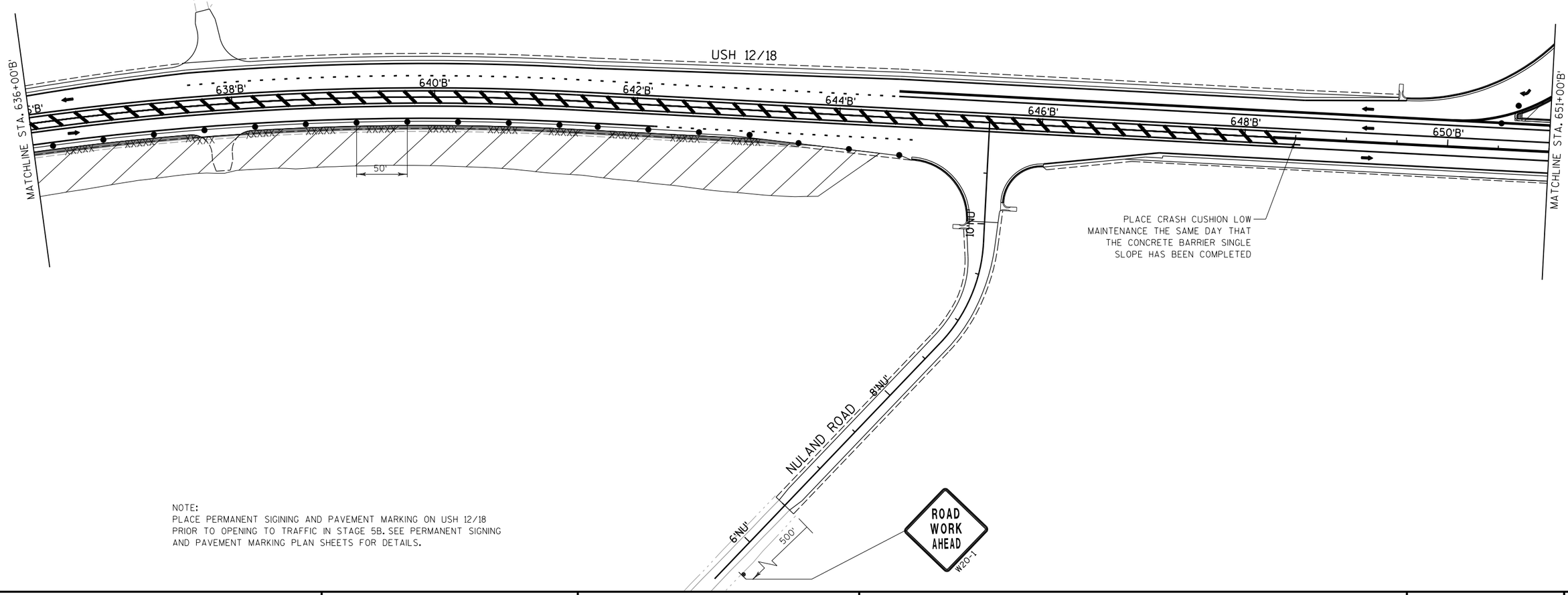


WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

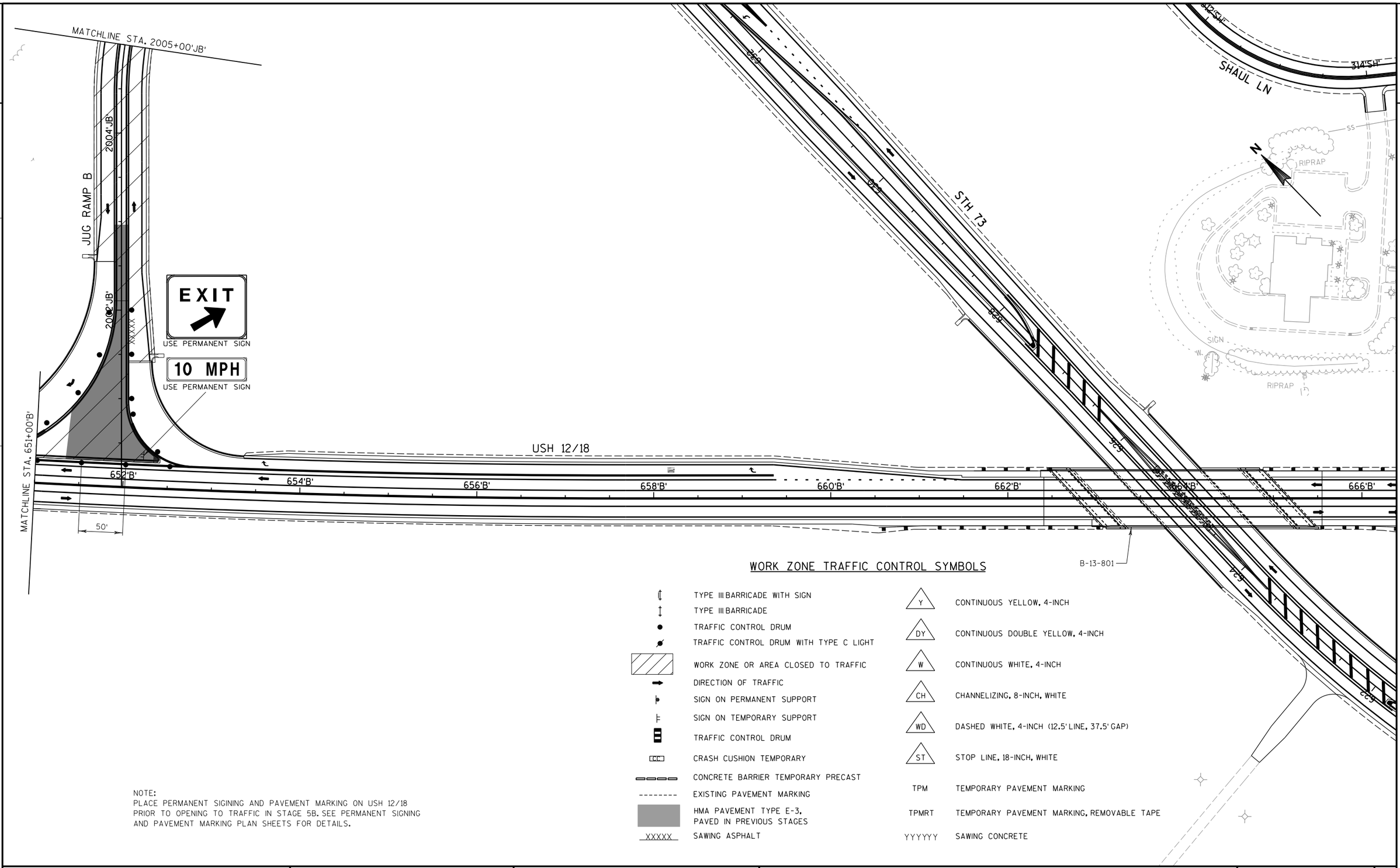
- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE





NOTE:
PLACE PERMANENT SIGINING AND PAVEMENT MARKING ON USH 12/18 PRIOR TO OPENING TO TRAFFIC IN STAGE 5B. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5B - USH 12/18	SHEET 233	E



WORK ZONE TRAFFIC CONTROL SYMBOLS

- TYPE III BARRICADE WITH SIGN
- TYPE III BARRICADE
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
- WORK ZONE OR AREA CLOSED TO TRAFFIC
- DIRECTION OF TRAFFIC
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- CRASH CUSHION TEMPORARY
- CONCRETE BARRIER TEMPORARY PRECAST
- EXISTING PAVEMENT MARKING
- HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
- XXXXX SAWING ASPHALT

- Y — CONTINUOUS YELLOW, 4-INCH
- DY — CONTINUOUS DOUBLE YELLOW, 4-INCH
- W — CONTINUOUS WHITE, 4-INCH
- CH — CHANNELIZING, 8-INCH, WHITE
- WD — DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
- ST — STOP LINE, 18-INCH, WHITE
- TPM — TEMPORARY PAVEMENT MARKING
- TPMRT — TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
- YYYYYY — SAWING CONCRETE

NOTE:
PLACE PERMANENT SIGINING AND PAVEMENT MARKING ON USH 12/18 PRIOR TO OPENING TO TRAFFIC IN STAGE 5B. SEE PERMANENT SIGNING AND PAVEMENT MARKING PLAN SHEETS FOR DETAILS.

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5B - USH 12/18	SHEET 234	E

2

2

N

SEE S.D.D. "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC"

ROAD WORK 500 FT
W20-1

ROAD WORK 1000 FT
W20-1

ROAD WORK AHEAD
W20-1

500'

1000'

712'B' 714'B' 716'B' 718'B' 720'B' 722'B'

USH 12/18

END ROAD WORK
G20-2A
48" X 24"

CLEAR VIEW ROAD

WORK ZONE TRAFFIC CONTROL SYMBOLS

	TYPE III BARRICADE WITH SIGN
	TYPE III BARRICADE
●	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C LIGHT
	WORK ZONE OR AREA CLOSED TO TRAFFIC
➡	DIRECTION OF TRAFFIC
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	TRAFFIC CONTROL DRUM
	CRASH CUSHION TEMPORARY
	CONCRETE BARRIER TEMPORARY PRECAST
--------	EXISTING PAVEMENT MARKING
	HMA PAVEMENT TYPE E-3, PAVED IN PREVIOUS STAGES
XXXXX	SAWING ASPHALT

Y	CONTINUOUS YELLOW, 4-INCH
DY	CONTINUOUS DOUBLE YELLOW, 4-INCH
W	CONTINUOUS WHITE, 4-INCH
CH	CHANNELIZING, 8-INCH, WHITE
WD	DASHED WHITE, 4-INCH (12.5' LINE, 37.5' GAP)
ST	STOP LINE, 18-INCH, WHITE
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE
YYYYYY	SAWING CONCRETE

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	TRAFFIC CONTROL - STAGE 5B - USH 12/18	SHEET 235	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\025615_tc_S5b.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 42

DETOUR NOTES

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE TRAFFIC CONTROL PLAN, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL. PAID FOR AS TRAFFIC CONTROL COVERING SIGNS TYPE II UNLESS OTHERWISE NOTED.

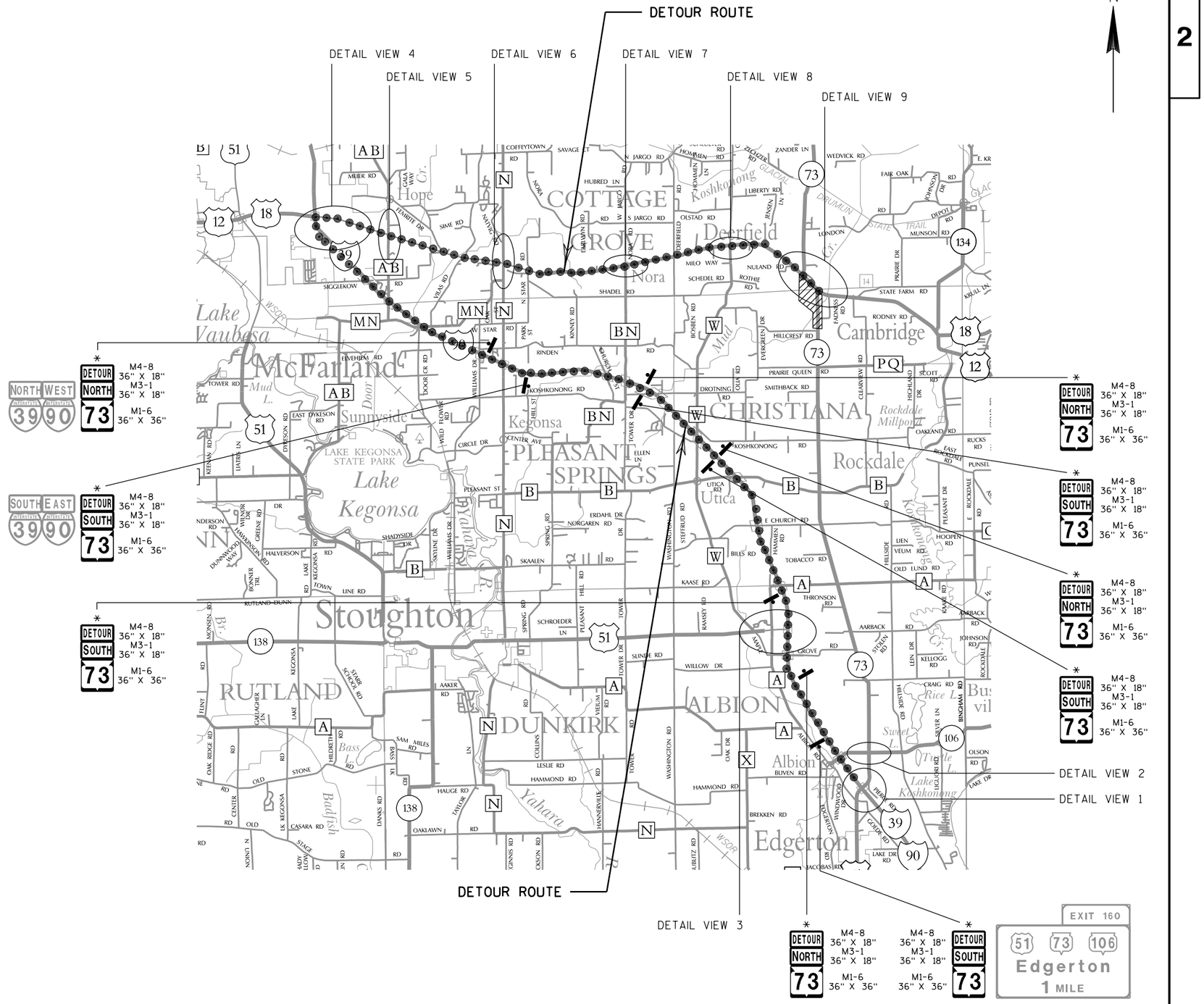
ALL "W" AND "WO" SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 SOUTH LEG (STAGE 3)	SHEET 236	E

2

M4-8 24" X 12"
M3-1 24" X 12"
M1-6 24" X 24"
M05-1L 21" X 21"

STH 73

PIERCE RD

Albion Edgerton

M4-8 24" X 12"
M3-1 24" X 12"
M1-6 24" X 24"
M06-1 21" X 21"

M4-8 24" X 12"
M3-1 24" X 12"
M1-6 24" X 24"
M06-1 21" X 21"

TRAFFIC CONTROL COVERING SIGNS TYPE I

M4-8 36" X 18"
M3-1 36" X 18"
M1-6 36" X 36"
M06-1 30" X 30"

EXIT 160
SOUTH
51 73 106
Edgerton
Destination

M4-8 36" X 18"
M3-1 36" X 18"
M1-6 36" X 36"
M06-1 30" X 30"

EXIT 160
SOUTH
51 73 106
Edgerton
Destination
1 MILE

M4-8 36" X 18"
M3-1 36" X 18"
M1-6 36" X 36"
M06-1 30" X 30"

M3-1 36" X 18"
M1-6 36" X 36"
DETOUR AHEAD W20-2

IH 39 / IH 90

1000'

IH 39 / IH 90

M4-8 36" X 18"
M3-1 36" X 18"
M1-6 36" X 36"

DETOUR NEXT 28 MILES G20-51 60" X 24"

EXIT 160

M4-8 36" X 18"
M3-1 36" X 18"
M1-6 36" X 36"
M06-1 30" X 30"

ALBION RD

M4-8 24" X 12"
M06-1 21" X 21" #

M4-8 24" X 12"
M05-1R 21" X 21" #

1000'

END DETOUR SOUTH 73
M4-8A 24" X 18"
M3-3 24" X 12"
M1-6 24" X 24"

M3-1 24" X 12"
M1-6 24" X 24"
DETOUR AHEAD W20-2

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

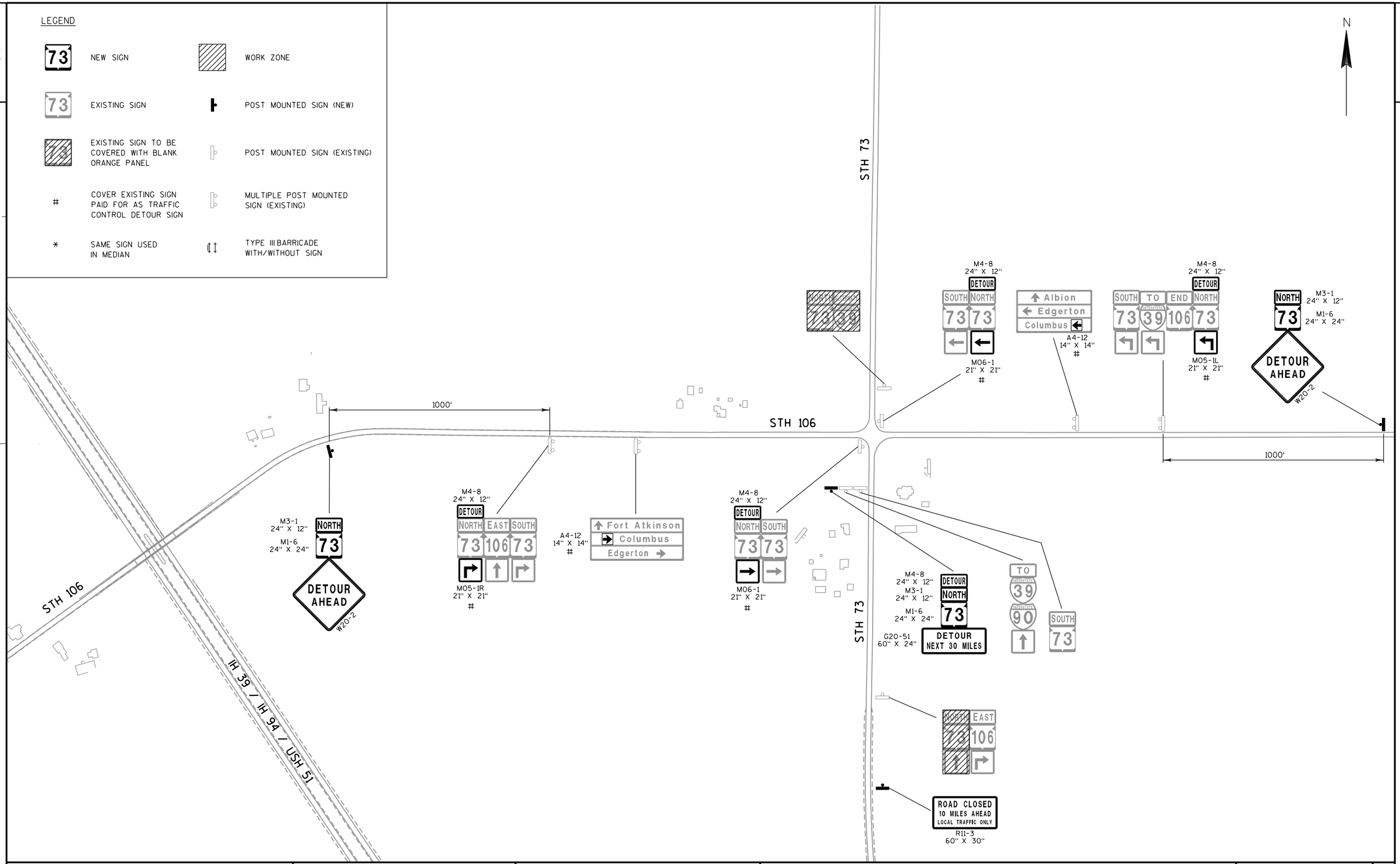
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 SOUTH LEG (STAGE 3) - DETAIL VIEW 1	SHEET 237	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027002_dt.dgn
PLOT DATE : 10/30/2014
PLOT BY : smk
PLOT NAME :
PLOT SCALE : 1:600
WISDOT/CADDS SHEET 42

2

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 SOUTH LEG (STAGE 3) - DETAIL VIEW 2	SHEET 238	E

2

N

ELDON WAY

ELDON WAY

CTH A

CTH A

1000'

USH 51

USH 51

IH 39 / IH 94

IH 39 / IH 94

M3-1
36" X 18"
M1-6
36" X 36"

NORTH
73

DETOUR
AHEAD
W20-2

NORTH WEST
INTERSTATE INTERSTATE
39 90

DETOUR
NORTH
73

M4-8
36" X 18"
M3-1
36" X 18"
M1-6
36" X 36"
M06-1
30" X 30"

M4-8
36" X 18"
M3-1
36" X 18"
M1-6
36" X 36"
M06-1
30" X 30"

DETOUR
NORTH
73

SOUTH EAST SOUTH
INTERSTATE INTERSTATE
39 90 51

M4-8
36" X 18"
M3-3
36" X 18"
M1-6
36" X 36"

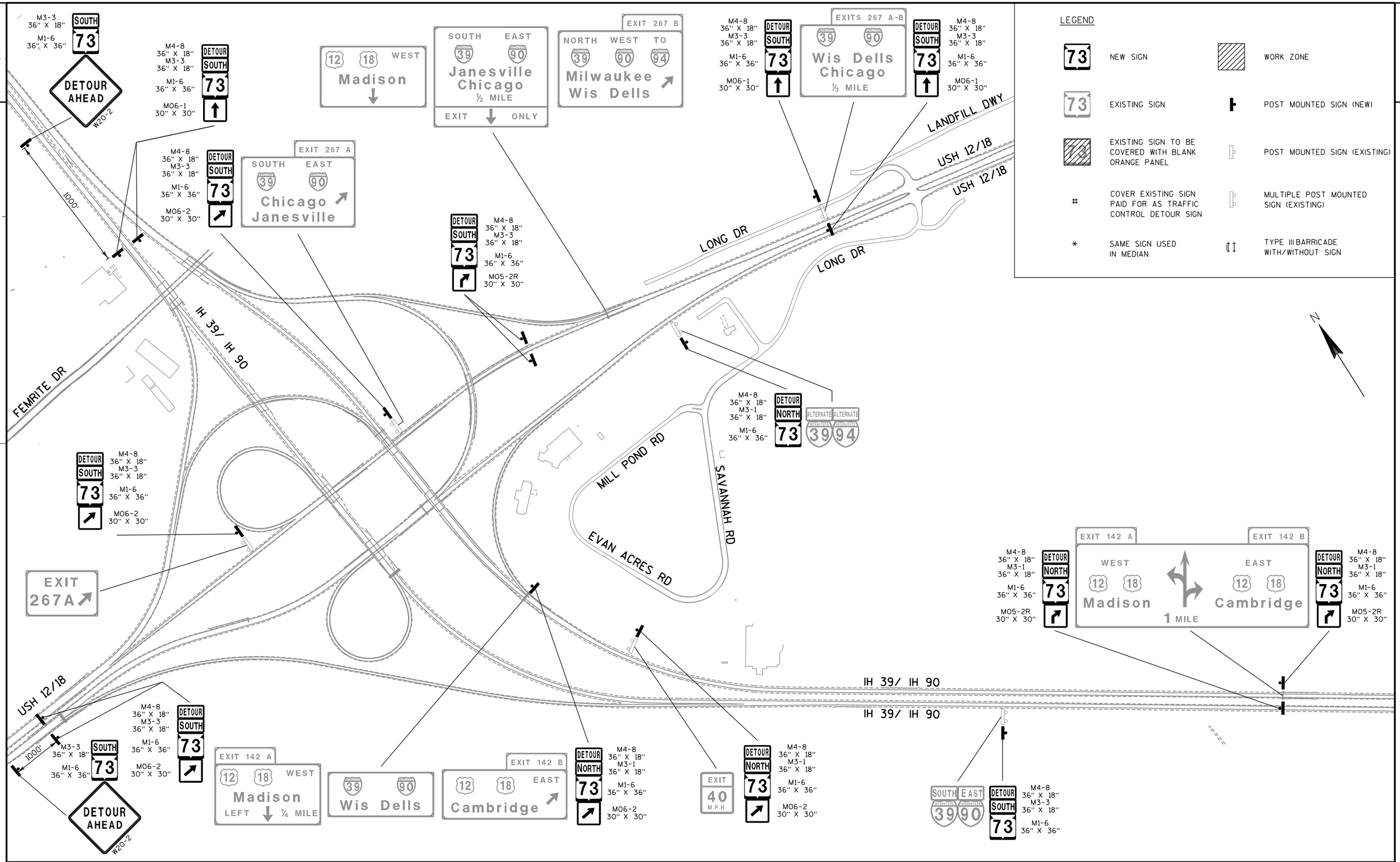
DETOUR
SOUTH
73

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 SOUTH LEG (STAGE 3) - DETAIL VIEW 3	SHEET 239	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027004_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

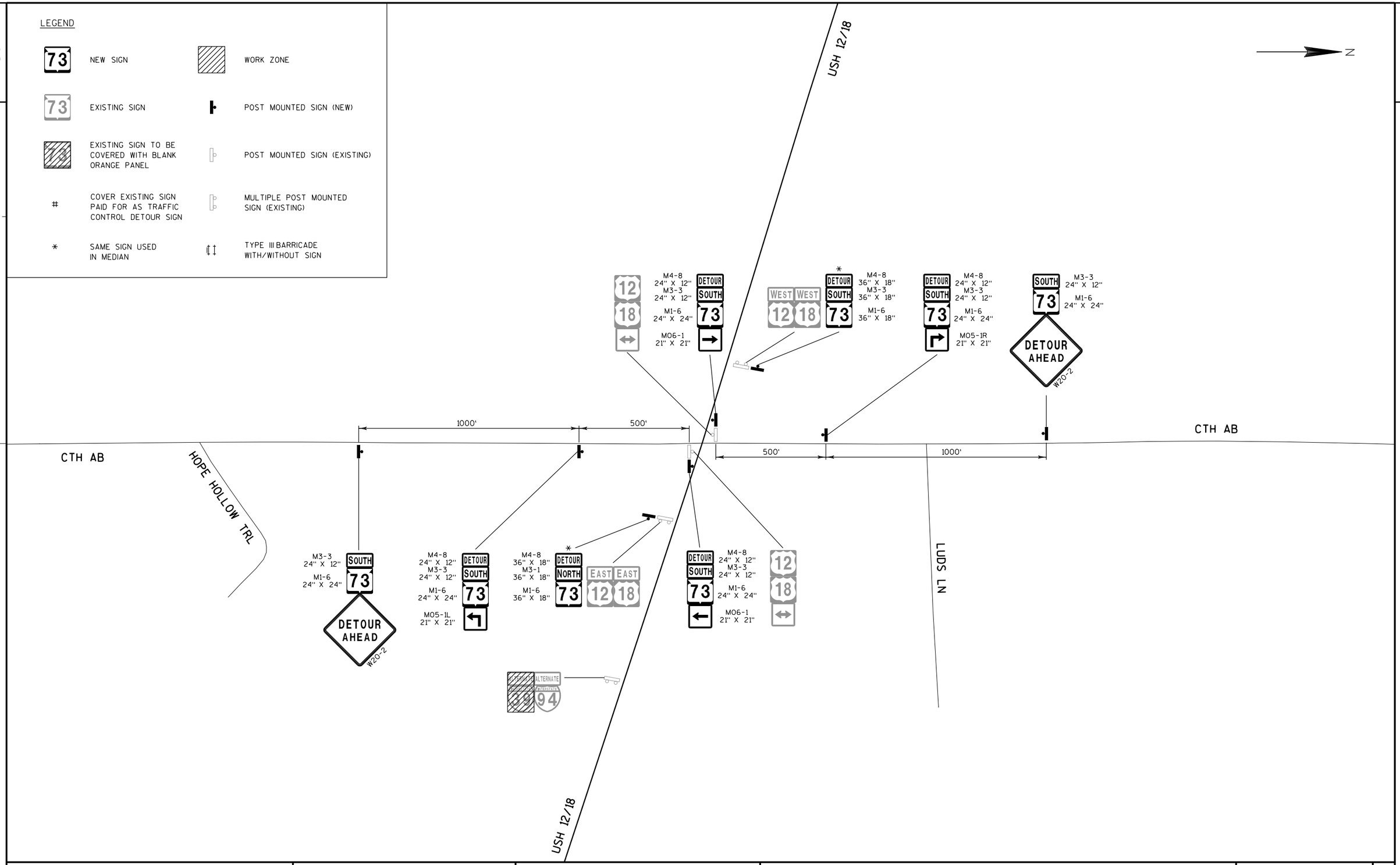


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 SOUTH LEG (STAGE 3) - DETAIL VIEW 4	SHEET 240	E

2

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN



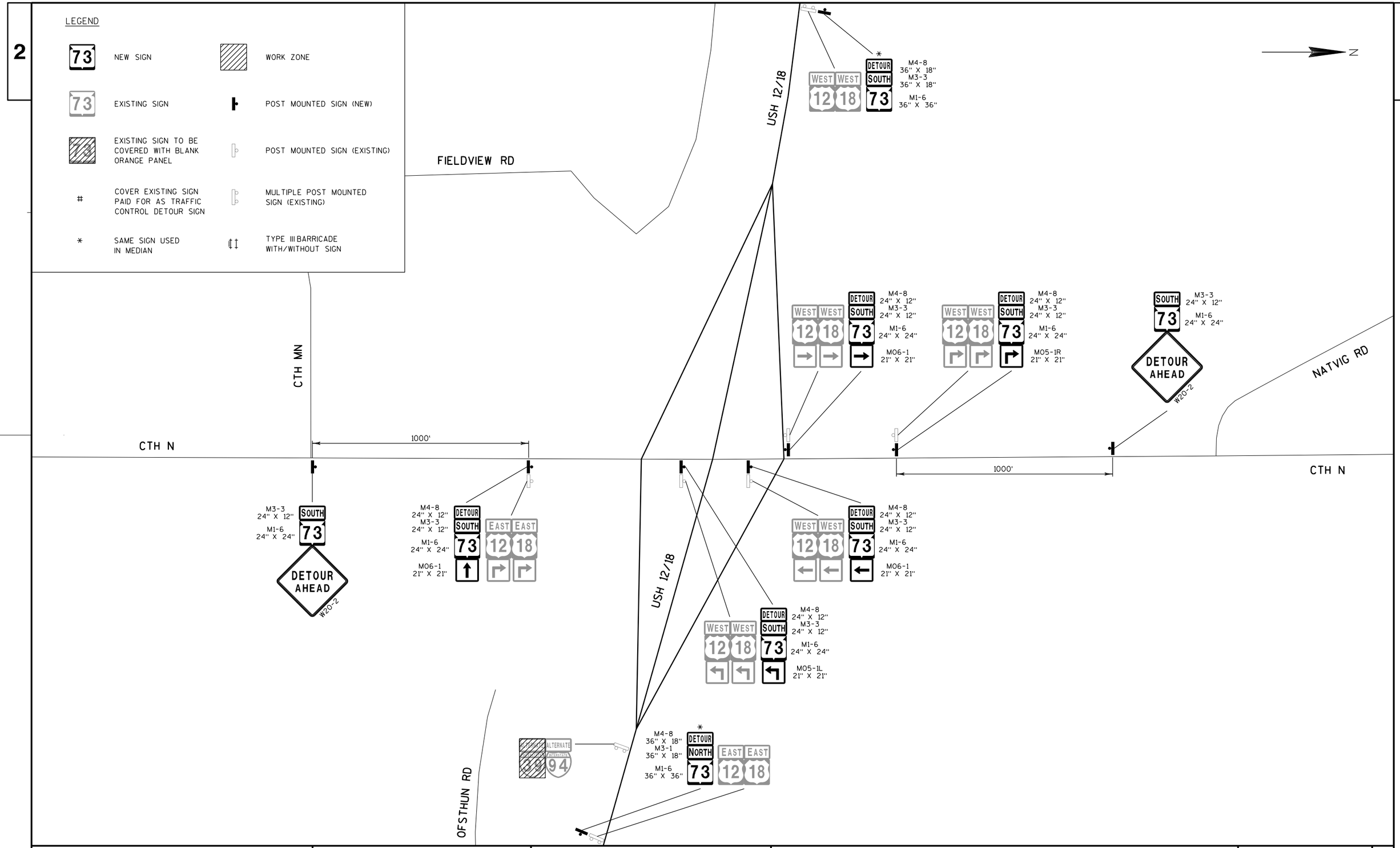
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 SOUTH LEG (STAGE 3) - DETAIL VIEW 5	SHEET 241	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027006_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

WISDOT/CADDS SHEET 42

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 SOUTH LEG (STAGE 3) - DETAIL VIEW 6	SHEET 242 E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027007_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

2

2

N

NORA RD

USH 12/18

USH 12/18

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"

DETOUR
SOUTH
73

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"
M06-1
21" X 21"

DETOUR
SOUTH
73
12
18

M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"

DETOUR
NORTH
73
EAST
12
18

ALTERNATE
94

500'

1000'

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"
M05-1L
21" X 21"

DETOUR
SOUTH
73

SOUTH
73
M3-3
24" X 12"
M1-6
24" X 24"

DETOUR
AHEAD
W20-2

CTH BN

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 SOUTH LEG (STAGE 3) - DETAIL VIEW 7	SHEET 243	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027008_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

2

2

N

CHRISTIANSEN LN

OAK PARK RD

USH 12/18

USH 12/18

HALVERSON LN

SUNNY LN

CTH W

MILO WAY

500'

1000'

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"
M06-1
21" X 21"

M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"
M05-1L
21" X 21"

M3-3
24" X 12"
M1-6
24" X 24"

DETOUR AHEAD
W20-2

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 SOUTH LEG (STAGE 3) - DETAIL VIEW 8	SHEET 244	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027009_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

2

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

N

M3-3 24" X 12"
M1-6 24" X 24"
SOUTH 73
DETOUR AHEAD
W20-2

STH 73

1000'

M4-8 24" X 12"
DETOUR
EAST EAST SOUTH
12 18 73
M05-1R 21" X 21"
#

M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"
DETOUR SOUTH 73
G20-51 60" X 24"
DETOUR NEXT 28 MILES

SHAUL LN

WEST WEST ALTERNATE
12 18 39

A4-12 14" X 14"
#
Edgerton
Cambridge
Madison

DETOUR SOUTH 73
M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"
M06-1 21" X 21"
#
WEST WEST
12 18

USH 12/18

END DETOUR NORTH 73
M4-8A 24" X 18"
M3-1 24" X 12"
M1-6 24" X 24"
JCT 73

NORTH EAST EAST SOUTH
73 12 18 73

M4-8 24" X 12"
DETOUR
EAST EAST SOUTH ALTERNATE
12 18 73 94
M06-1 21" X 21"
#

NORTH EAST EAST SOUTH
73 12 18 73

Cambridge
Deerfield

M4-8 24" X 12"
DETOUR
SOUTH WEST WEST NORTH
73 12 18 73
M06-1 21" X 21"
#

M3-3 24" X 12"
M1-6 24" X 24"
SOUTH 73
DETOUR AHEAD
W20-2

1000'

FADNESS RD

STH 73

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 SOUTH LEG (STAGE 3) - DETAIL VIEW 9	SHEET 245	E

DETOUR NOTES

THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

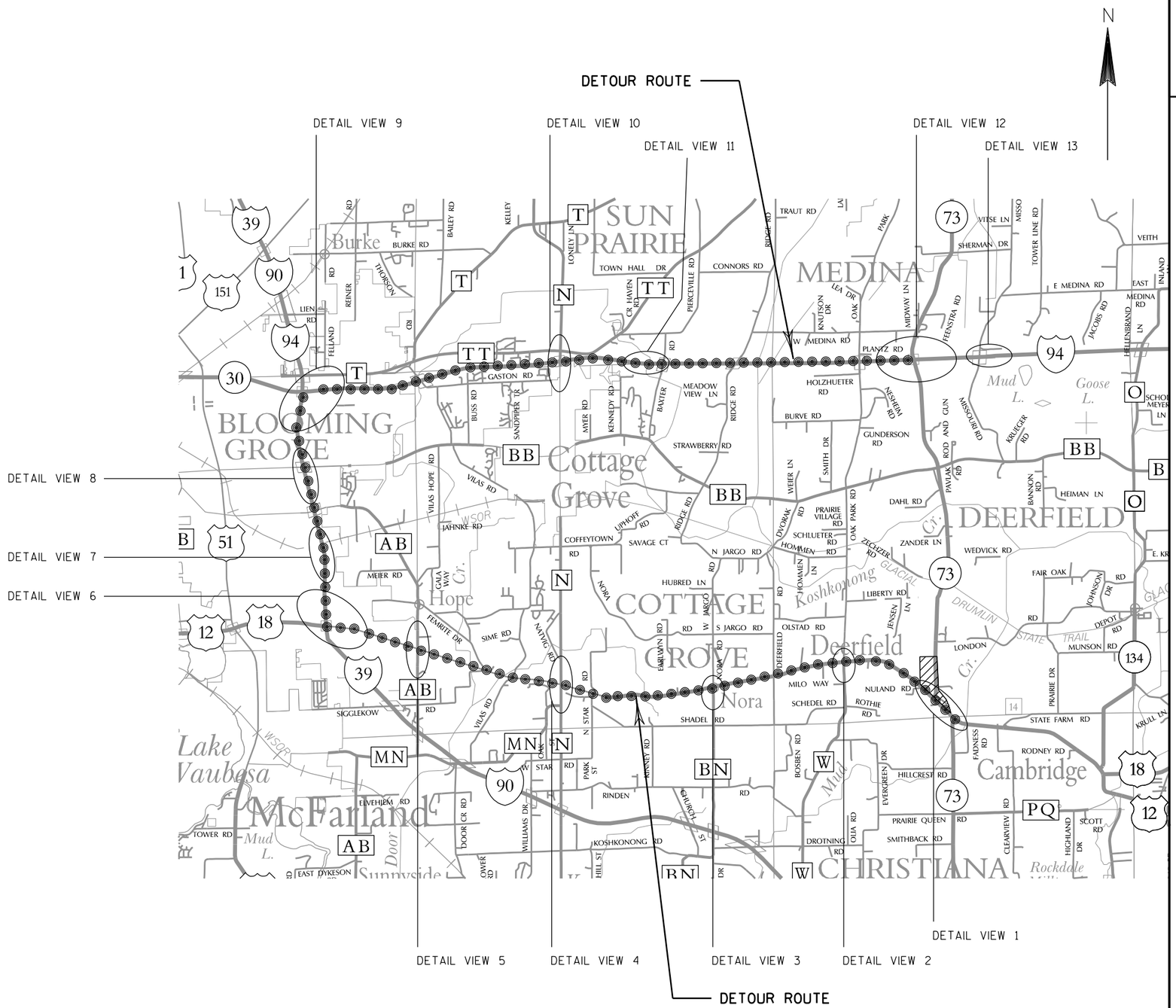
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE TRAFFIC CONTROL PLAN, INCLUDING PRE-EXISTING SIGNING IN THE VICINITY, SHALL BE COVERED OR REMOVED AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

ALL EXISTING SIGNS THAT NEED TO BE COVERED SHALL BE COVERED WITH A BLANK ORANGE PANEL. PAID FOR AS TRAFFIC CONTROL COVERING SIGNS TYPE II UNLESS OTHERWISE NOTED.

ALL "W" AND "WO" SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL "STOP" SIGNS THAT ARE REMOVED FOR A CONSTRUCTION OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED.

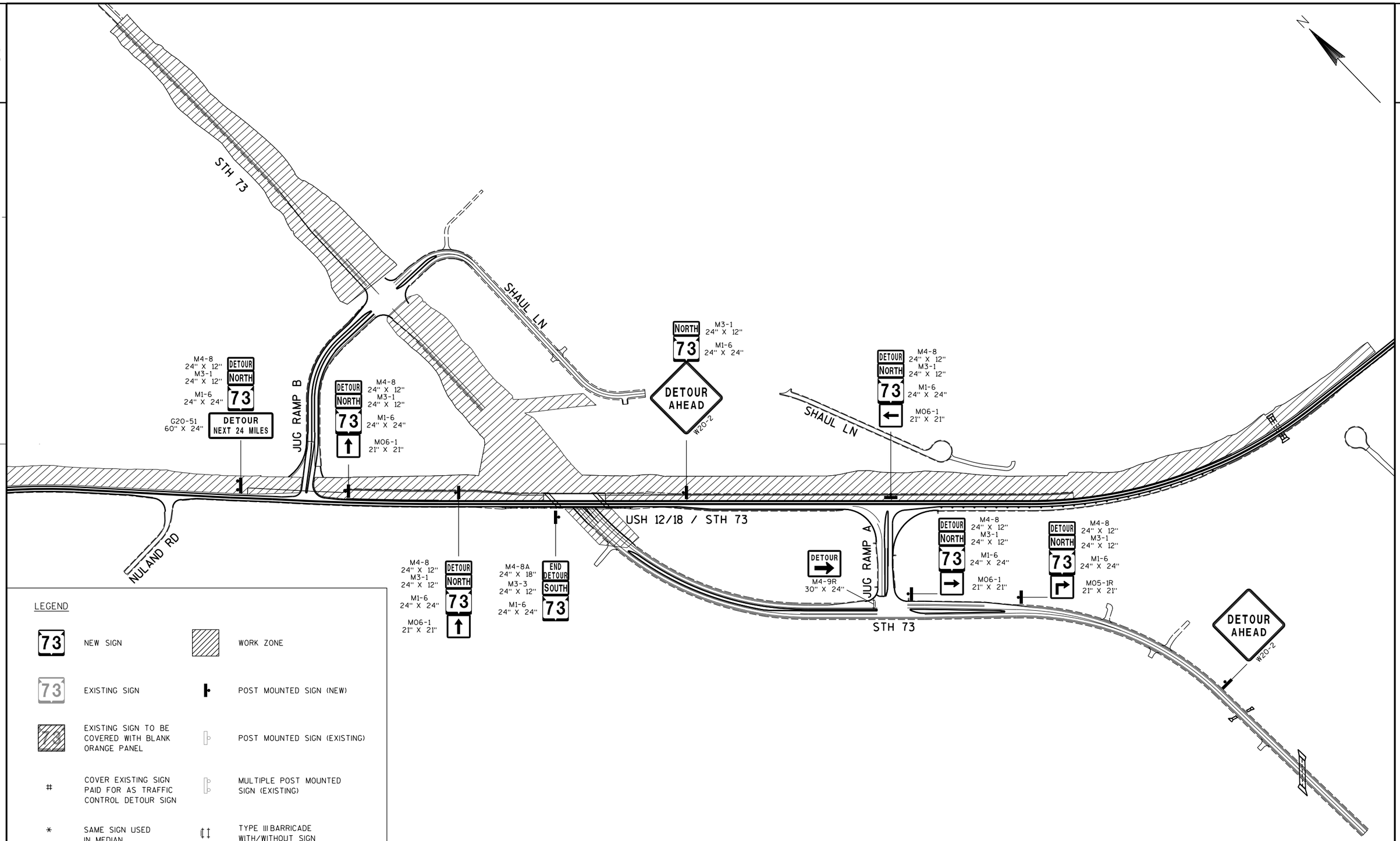


LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4)	SHEET 246	E

2



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 1	SHEET 247	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027102_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

2

2

N

CHRISTIANSEN LN

OAK PARK RD

USH 12/18

USH 12/18

HALVERSON LN

SUNNY LN

CTH W

MILO WAY

500'

1000'

M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"

M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"
M06-1
21" X 21"

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"

M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"
M05-1L
21" X 21"

M3-1
24" X 12"
M1-6
24" X 24"

DETOUR AHEAD
W20-2

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 2	SHEET 248	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027103_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

WISDOT/CADDS SHEET 42

2

2

N

NORA RD

USH 12/18

USH 12/18

M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"

M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"
M06-1
21" X 21"

M4-8
24" X 12"
M3-3
24" X 12"
M1-6
24" X 24"

500'

1000'

M4-8
24" X 12"
M3-1
24" X 12"
M1-6
24" X 24"
M05-1L
21" X 21"

M3-1
24" X 12"
M1-6
24" X 24"

DETOUR AHEAD
W20-2

CTH BN

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 3	SHEET 249	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027104_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

2

2

N

FIELDVIEW RD

USH 12/18

CTH MN

CTH N

1000'

1000'

NATVIG RD

OFSTHUN RD

USH 12/18

CTH N

* WEST WEST 12 18 | DETOUR NORTH 73 — M4-8 36" X 18", M3-1 36" X 18", M1-6 36" X 36"

WEST WEST 12 18 | DETOUR NORTH 73 → — M4-8 24" X 12", M3-1 24" X 12", M1-6 24" X 24", M06-1 21" X 21"

WEST WEST 12 18 | DETOUR NORTH 73 ↱ — M4-8 24" X 12", M3-1 24" X 12", M1-6 24" X 24", M05-1R 21" X 21"

NORTH 73 — M3-1 24" X 12", M1-6 24" X 24"; DETOUR AHEAD W20-2

NORTH 73 — M3-1 24" X 12", M1-6 24" X 24"; DETOUR AHEAD W20-2

M4-8 24" X 12", M3-1 24" X 12", M1-6 24" X 24", M06-1 21" X 21" | DETOUR NORTH 73 ↑ | EAST EAST 12 18 ↱ ↱

M4-8 24" X 12", M3-1 24" X 12", M1-6 24" X 24", M06-1 21" X 21" | DETOUR NORTH 73 ↑ | EAST EAST 12 18 → →

WEST WEST 12 18 | DETOUR NORTH 73 ← — M4-8 24" X 12", M3-1 24" X 12", M1-6 24" X 24", M06-1 21" X 21"

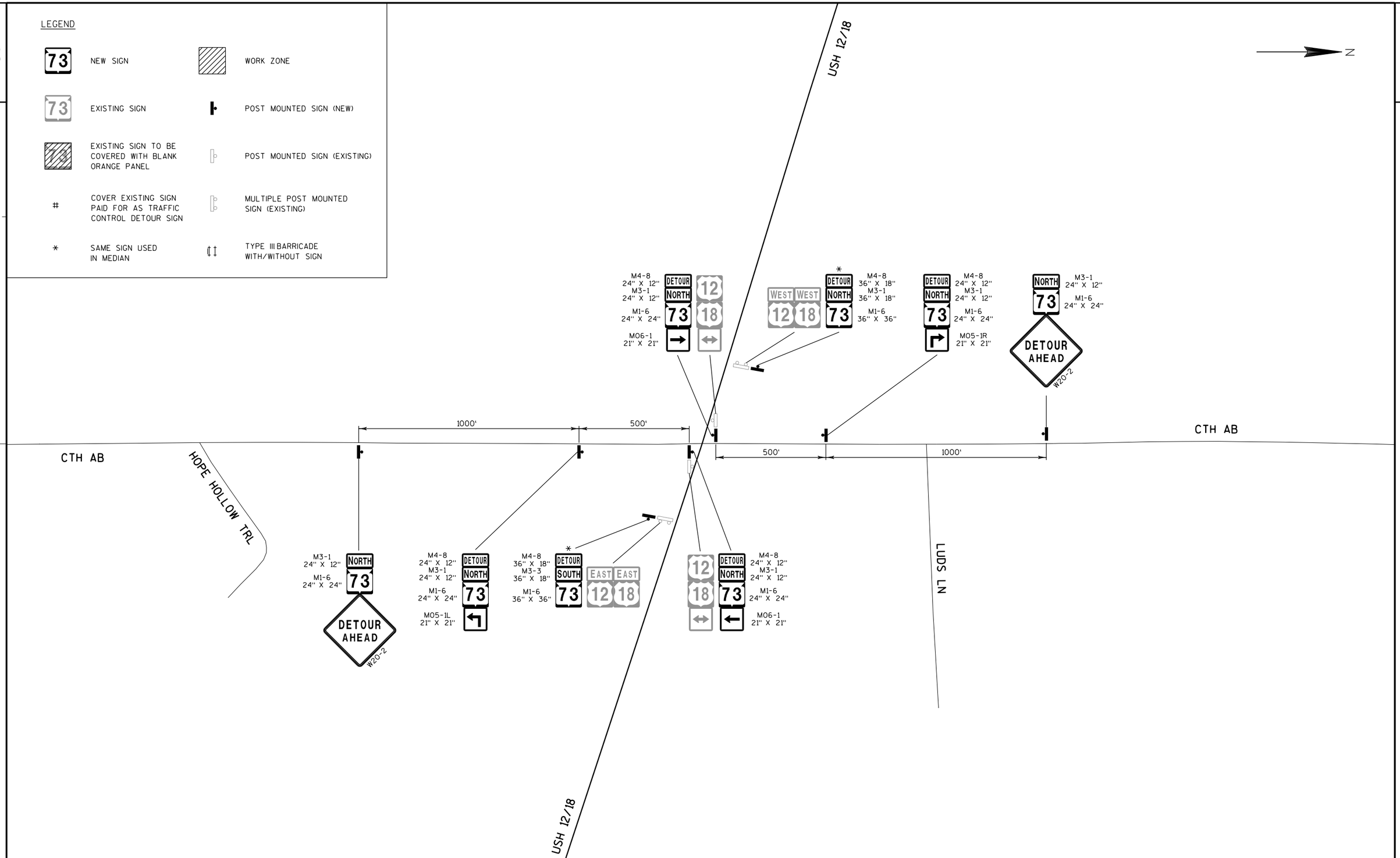
WEST WEST 12 18 | DETOUR NORTH 73 ↰ — M4-8 24" X 12", M3-1 24" X 12", M1-6 24" X 24", M05-1L 21" X 21"

* M4-8 36" X 18", M3-3 36" X 18", M1-6 36" X 36" | DETOUR SOUTH 73 | EAST EAST 12 18

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 4	SHEET 250 E

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN



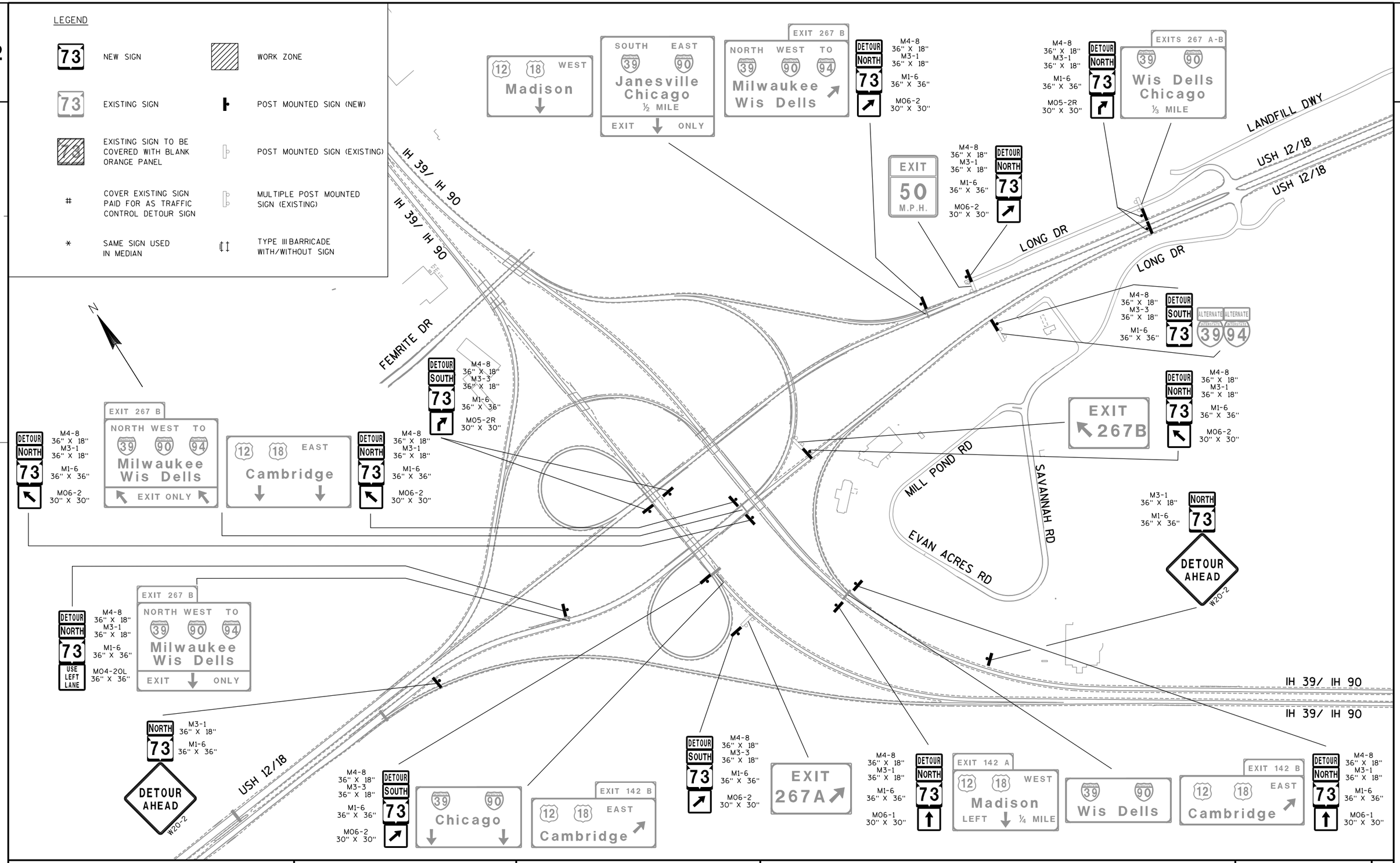
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 5	SHEET 251	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027106_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

WISDOT/CADDS SHEET 42

LEGEND

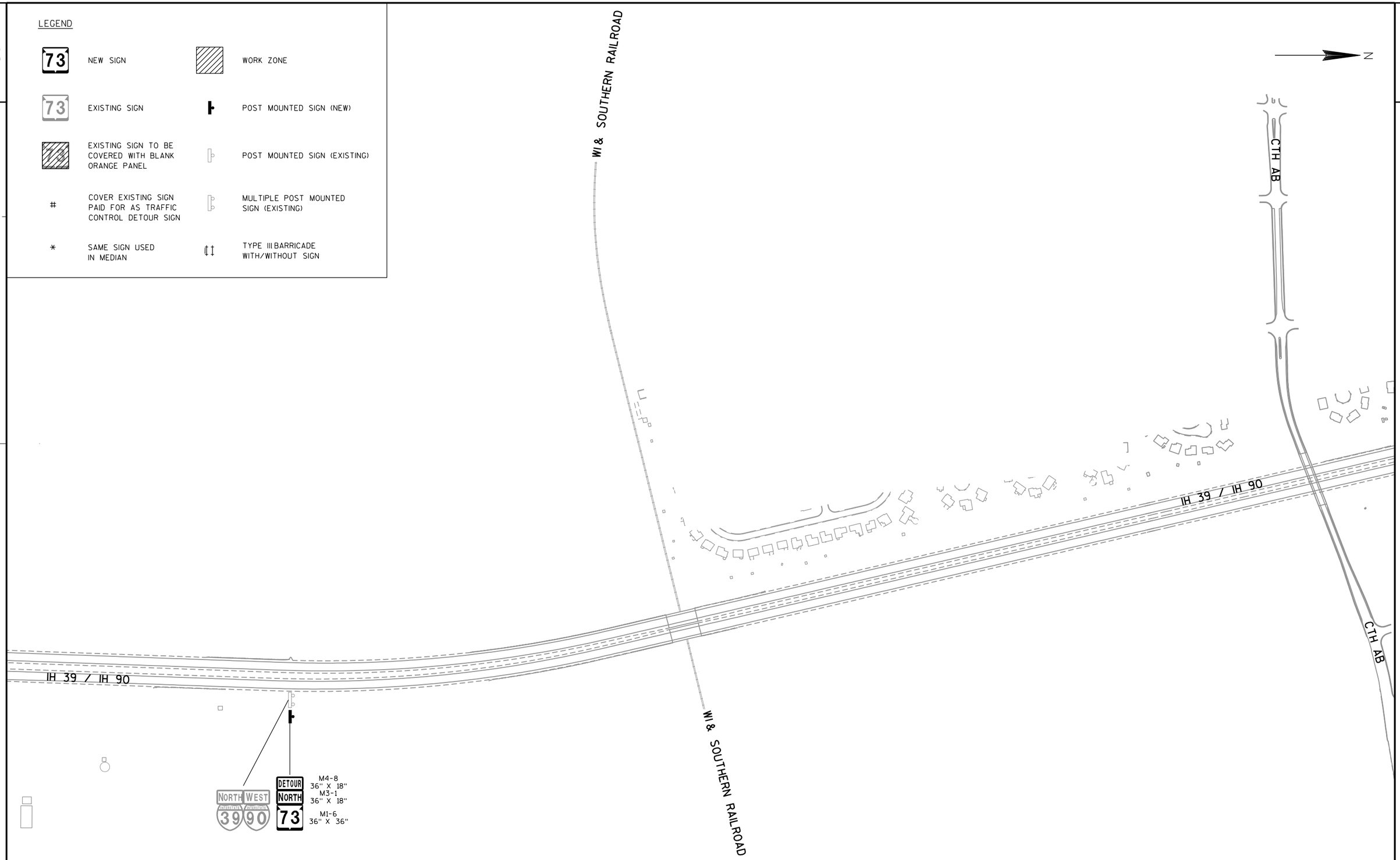
73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 6	SHEET 252 E

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 7	SHEET 253	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027108_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

WISDOT/CADDS SHEET 42

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

N

CTH BB

SOUTH EAST INTERSTATE 39 90 — DETOUR SOUTH 73

M4-8 36" X 18"
M3-3 36" X 18"
M1-6 36" X 36"

IH 39 / IH 90

IH 39 / IH 90

CTH BB

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 8	SHEET 254	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027109_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

2

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

N

STH 30

IH 94 WB

IH 94

IH 94 EB

IH 39 / IH 90

MILWAUKEE ST

1000'

1500'

M3-3 36" X 18"
M1-6 36" X 36"
SOUTH 73
DETOUR AHEAD W20-2

M4-8 36" X 18"
M3-3 36" X 18"
M1-6 36" X 36"
M4-2OR 36" X 36"
DETOUR SOUTH 73 USE RIGHT LANE
EXIT 138 A
94 Milwaukee
EXIT ONLY
39 90 Chicago

M4-8 36" X 18"
M3-3 36" X 18"
M1-6 36" X 36"
M06-1 30" X 30"
DETOUR SOUTH 73

M4-8 36" X 18"
M3-3 36" X 18"
M1-6 36" X 36"
M05-2L 30" X 30"
DETOUR SOUTH 73
LEFT EXIT 240 A
SOUTH 39 EAST 90 Janesville
EXIT ONLY
EXIT 240
30 WEST Madison
NORTH 39 WEST 90 94 Wis Dells Eau Claire

M4-8 36" X 18"
M3-3 36" X 18"
M1-6 36" X 36"
M06-2 30" X 30"
DETOUR SOUTH 73
EXIT 240A

M4-8 36" X 18"
M3-3 36" X 18"
M1-6 36" X 36"
M05-2R 30" X 30"
DETOUR SOUTH 73
NORTH 39 WEST 90 94 Wis Dells
EAST 94 Milwaukee
SOUTH 39 EAST 90 Janesville Chicago

M4-8 36" X 18"
M3-1 36" X 18"
M1-6 36" X 36"
M06-2 30" X 30"
DETOUR NORTH 73
NORTH 39 WEST 90 94 Wis Dells
EXIT 138 A
EAST 94 Milwaukee

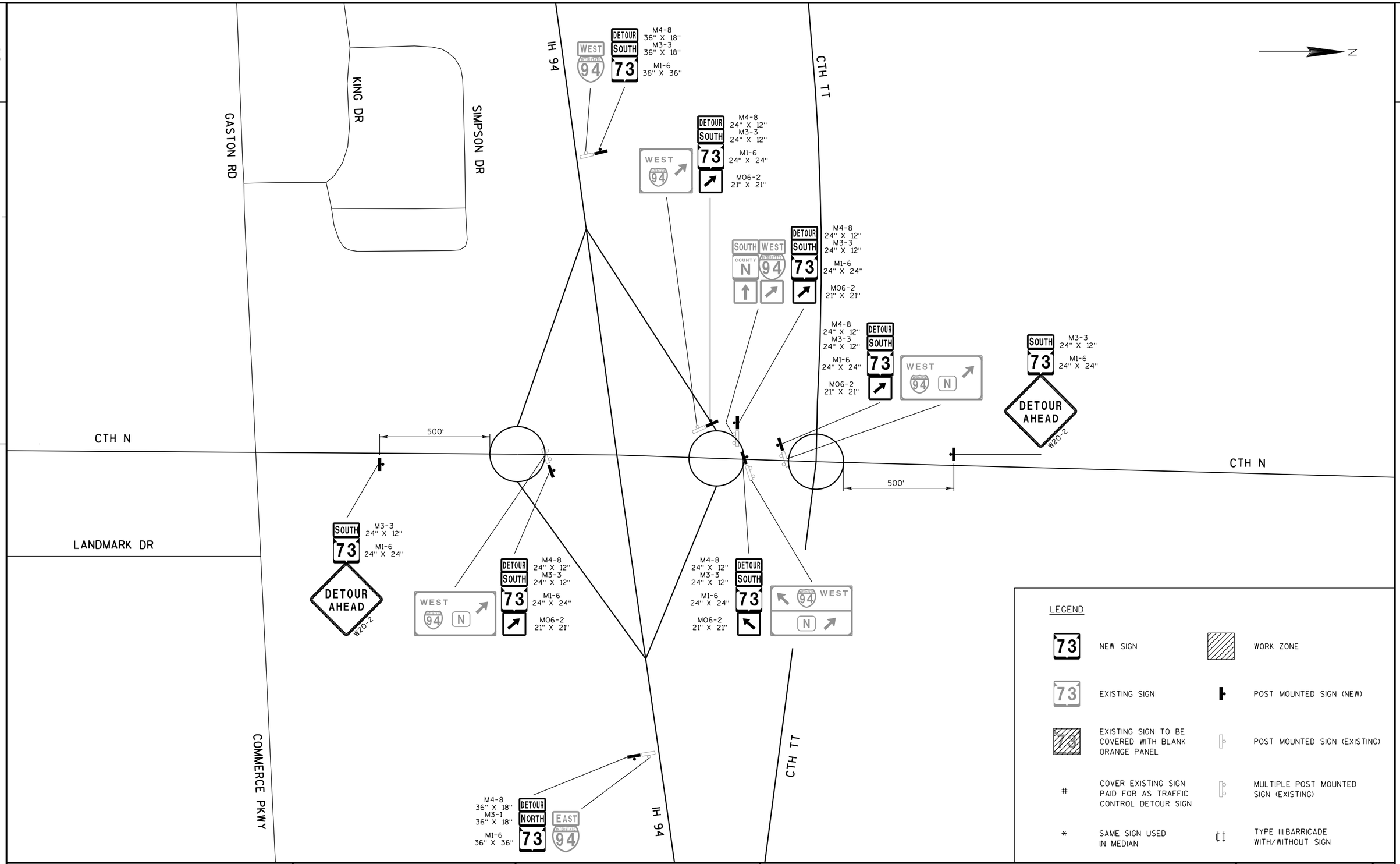
M4-8 36" X 18"
M3-1 36" X 18"
M1-6 36" X 36"
M05-2R 30" X 30"
DETOUR NORTH 73

M4-8 36" X 18"
M3-3 36" X 18"
M1-6 36" X 36"
M04-20L 36" X 36"
DETOUR SOUTH 73 USE LEFT LANE
LEFT EXIT 240 A
SOUTH 39 EAST 90 Janesville
EXIT 240
30 WEST Madison
NORTH 39 WEST 90 94 Wis Dells Eau Claire

M4-8 36" X 18"
M3-1 36" X 18"
M1-6 36" X 36"
EAST END 94 30
DETOUR NORTH 73

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 9	SHEET 255	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027110_dt.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:600



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 10	SHEET 256	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027111_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

2

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

N

2

EXIT 244

N
Sun Prairie
Cottage Grove
1 MILE

*
M4-8
36" X 18"
M3-3
36" X 18"
M1-6
36" X 36"

DETOUR
SOUTH
73

IH 94

BAXTER RD

IH 94

M4-8
36" X 18"
M3-1
36" X 18"
M1-6
36" X 36"

DETOUR
NORTH
73

EAST
INTERSTATE
94

BAXTER RD

KENNEDY RD

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 11	SHEET 257	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027112_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

WISDOT/CADDS SHEET 42

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

N

IH 94

W MEDINA RD

STH 73

M4-8A 30" X 24"
M3-1 36" X 18"
M1-6 36" X 36"
END DETOUR NORTH 73
EXIT 250
73 Marshall Deerfield

WEST Interstate 94
M4-8 36" X 18"
M3-3 36" X 18"
M1-6 36" X 36"
DETOUR SOUTH 73
DETOUR NEXT 24 MILES
G20-51 60" X 24"

M4-8 24" X 12"
DETOUR
NORTH SOUTH Interstate 73 73 94
M05-1L 21" X 21"
#

ROAD CLOSED 5 MILES AHEAD LOCAL TRAFFIC ONLY
R11-3 60" X 30"

M4-8 24" X 12"
DETOUR
Interstate 94
NORTH SOUTH 73 73
#
M06-1 21" X 21"

M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"
M06-1 21" X 21"
DETOUR SOUTH 73
WEST Interstate 94

M4-8 24" X 12"
DETOUR
EAST SOUTH WEST Interstate 94 73 94
M05-1R 21" X 21"
#

DETOUR AHEAD W20-2

1000'

SOUTH 73
Interstate 94
Deerfield 4

M4-8 24" X 12"
DETOUR
SOUTH NORTH 73 73
#
M06-1 21" X 21"

Interstate 94

WEST Interstate 94

M4-8 24" X 12"
M3-3 24" X 12"
M1-6 24" X 24"
DETOUR SOUTH 73

M4-8 24" X 12"
DETOUR
SOUTH NORTH 73 73
M06-1 21" X 21"
#

M4-8 24" X 12"
DETOUR
WEST NORTH EAST Interstate 94 73 94
M3-3 24" X 12"
M1-6 24" X 24"
M05-1L 21" X 21"

SOUTH 73
M3-3 24" X 12"
M1-6 24" X 24"
DETOUR AHEAD W20-2

EXIT 250

M4-8 36" X 18"
M3-3 36" X 18"
M1-6 36" X 36"
M06-1 30" X 30"
DETOUR SOUTH 73

M4-8 36" X 18"
M3-3 36" X 18"
M1-6 36" X 36"
M06-1 30" X 30"
DETOUR SOUTH 73
EXIT 250
73 Marshall Deerfield

HIGH CHAPARRAL RD

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 12	SHEET 258	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027113_dt.dgn
PLOT DATE : 10/30/2014
PLOT BY : smk
PLOT NAME :
PLOT SCALE : 1:400
WISDOT/CADDS SHEET 42

2

2

N

JUEDES LN

EXIT 250
73
Marshall
Deerfield
1 MILE

*
SOUTH
73
M3-3
36" X 18"
M1-6
36" X 36"

DETOUR
AHEAD
W20-2

IH 94

IH 94

MISSOURI RD

LEGEND

73	NEW SIGN		WORK ZONE
73	EXISTING SIGN		POST MOUNTED SIGN (NEW)
73	EXISTING SIGN TO BE COVERED WITH BLANK ORANGE PANEL		POST MOUNTED SIGN (EXISTING)
#	COVER EXISTING SIGN PAID FOR AS TRAFFIC CONTROL DETOUR SIGN		MULTIPLE POST MOUNTED SIGN (EXISTING)
*	SAME SIGN USED IN MEDIAN		TYPE III BARRICADE WITH/WITHOUT SIGN

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	DETOUR PLAN - STH 73 NORTH LEG (STAGE 4) - DETAIL VIEW 13	SHEET 259	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027114_dt.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:400

STH 73 SOUTH LEG CURVE 1 DATA
PI = 600+31.89'ES'
Y = 463556.68
X = 904718.94
PC = 597+96.16'ES'
PT = 602+61.69'ES'
T = 235.73
L = 465.52
R = 1200.00
DELTA = 22°13'38" RT
D = 04°46'29"
SE = N/A

STH 73 NORTH LEG CURVE 1 DATA
PI = 904+53.49'EN'
Y = 466166.47
X = 903330.00
PC = 900+69.29'EN'
PT = 908+13.18'EN'
T = 384.20
L = 743.89
R = 1206.23
DELTA = 35°20'04" LT
D = 04°45'00"
SE = RC

USH 12/18 CURVE 1 DATA
PI = 637+28.88'BE'
Y = 467424.51
X = 901385.66
PC = 634+66.12'BE'
PT = 639+90.17'BE'
T = 262.76
L = 524.06
R = 2864.79
DELTA = 10°28'52" RT
D = 02°00'00"
SE = 4.5%

USH 12/18 CURVE 2 DATA
PI = 692+56.32'BE'
Y = 463583.14
X = 905362.18
PC = 686+87.80'BE'
PT = 697+82.04'BE'
T = 568.52
L = 1094.24
R = 1634.39
DELTA = 38°21'36" LT
D = 03°30'20"
SE = 5.8%

T 6 N R 12 E 4

1.0" IRON PIPE
Y=460969.62
X=902085.30

T 7 N R 12 E 4 33

ALUMINUM MONUMENT
Y=464091.79
X=902048.78

CALCULATED CORNER
Y=466725.81
X=901974.01

T 7 N R 12 E 33

NULAND RD

STA 630+00'BE'
Y=467827.10
X=900778.06

630'BE'

S 56°28'18" E

PT STA639+90.17'BE'

CURVE 1

640'BE'

PI STA637+28.88'BE'

PC STA634+66.12'BE'

T 7 N R 12 E 33 28

ALUMINUM MONUMENT
Y=469386.88
X=901898.47

650'BE'

STA 660+79.60'BE'=
STA 900+00'EN'
Y=465790.25
X=903077.41

660'BE'

N 33°52'38" E

PC STA900+69.29'EN'

PT STA908+13.18'EN'

CURVE 1

910'EN'

920'EN'

STH 73

930'EN'

N 1°27'26" W

PI STA904+53.49'EN'

STA 903+55.11'EN'=
STA 800+00'SH'
Y=466101.37
X=903245.69

STA 930+00'EN'
Y=468836.63
X=903262.07

S 45°59'25" E

USH 12/18

670'BE'

S 59°53'17" E

SHAUL LN

STA 810+00'SH'
Y=465484.17
X=904032.50

810'E'

PT STA602+61.69'ES'

PI STA600+31.89'ES'

PC STA597+96.16'ES'

680'BE'

STH 73

STH 73

590'ES'

600'ES'

N 2°08'14" W

CURVE 1

STA 582+50'BE'
Y=461776.03
X=904785.39

N 20°05'23" E

STA 686+05'BE'=
STA 605+37'ES'
Y=464035.40
X=904894.01

T 6 N R 12 E 4 3

PK NAIL
Y=460990.17
X=904792.43

T 6 N R 12 E 4 33 3 34

BRASS CAP MONUMENT
Y=464202.31
X=904696.01

690'BE'

PC STA686+87.80'BE'

CURVE 2

PI STA692+56.32'BE'

PT STA697+82.04'BE'

FADNESS RD

700'BE'

S 84°21'02" E

STA 702+00'BE'
Y=463486.03
X=906343.86

T 7 N R 12 E 33 34

1.25" IRON PIPE
Y=466838.47
X=904657.69

T 7 N R 12 E 28 33 27 34

ALUMINUM MONUMENT
Y=469472.09
X=904596.74

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	ALIGNMENT DIAGRAM - EXISTING ALIGNMENTS	SHEET 260	E

STH 73 CURVE 1 DATA
PI = 579+48.18
Y = 461474.33
X = 904796.65
PC = 576+76.12
PT = 582+20.15
T = 272.06
L = 544.03
R = 12000.00
DELTA = 02°35'51.16" LT
D = 00°28'38.87"
SE = NC

STH 73 CURVE 2 DATA
PI = 598+75.34
Y = 463400.24
X = 904724.78
PC = 593+39.88
PT = 603+57.99
T = 535.47
L = 1018.12
R = 1330.00
DELTA = 43°51'36.14" LT
D = 04°18'28.63"
SE = 6.0%

STH 73 CURVE 3 DATA
PI = 618+82.17
Y = 464831.05
X = 903243.26
PC = 613+03.87
PT = 623+94.87
T = 578.29
L = 1090.99
R = 1330.00
DELTA = 46°59'58.34" RT
D = 04°18'28.63"
SE = 6.0%

STH 73 CURVE 4 DATA
PI = 646+28.65
Y = 467642.70
X = 903292.45
PC = 643+71.06
PT = 648+86.15
T = 257.59
L = 515.09
R = 12000.00
DELTA = 02°27'33.79" LT
D = 00°28'38.87"
SE = NC

STH 73 CURVE 5 DATA
PI = 660+16.16
Y = 469029.84
X = 903257.16
PC = 656+94.11
PT = 663+38.02
T = 322.05
L = 643.91
R = 11100.00
DELTA = 03°19'25.47" RT
D = 00°30'58.24"
SE =NC

N

CALCULATED CORNER
Y=466725.81
X=901974.01

NULAND RD

ALUMINUM MONUMENT
Y=469386.88
X=901898.47

1.0" IRON PIPE
Y=460969.62
X=902085.30

ALUMINUM MONUMENT
Y=464091.79
X=902048.78

PI 618+82.17
PT 623+94.87
PC 613+03.87
JUG RAMP B
PC 643+71.06
PT 648+86.15
PC 656+94.11
PI 660+16.16

STA 637+75=
STA 2010+42.73'JB'
Y=466789.18
X=903277.52

570 STH 73 580 590 600 610 620 630 640 650 660

N 0°27'37" E
CURVE 1
N 2°08'14" W
CURVE 2
CURVE 3
N 1°00'08" E
CURVE 4
N 1°27'26" W
CURVE 5
N 1°51'59" E

STA 625+04.34=
STA 663+97.88'B'
Y=465518.72
X=903255.29

STA 637+63=
STA 300+00'SH'
Y=466777.18
X=903277.31

PT 663+38.02

PC 576+76.12
PT 582+20.15
PC 593+39.88
PT 603+57.99
STA 609+49.11=
STA 1000+00'JA'
Y=464182.87
X=903914.42
N 45°59'31" W
JUG RAMP A
USH 12/18
SHAUL LN
PI 598+75.34
PI 579+48.18
PI 646+28.65

END PROJECT
STA 655+10.00
Y=468523.84
X=903270.03

BEGIN PROJECT
STA 584+25.00
Y=461950.91
X=904778.87

PK NAIL
Y=460990.17
X=904792.43

BRASS CAP MONUMENT
Y=464202.31
X=904696.01

1.25" IRON PIPE
Y=466838.47
X=904657.69

ALUMINUM MONUMENT
Y=469472.09
X=904596.74

FADNESS RD

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	ALIGNMENT DIAGRAM - STH 73	SHEET 261	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\027202_ad.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:600

US 12/18
CURVE 1 DATA
PI = 638+04.08'B'
Y = 467382.97
X = 901448.35
PC = 634+65.64'B'
PT = 641+39.40'B'
T = 338.44
L = 673.76
R = 2865.00
DELTA = 13°28'27.18" RT
D = 01°59'59.47"
SE = 4.5%

US 12/18
CURVE 2 DATA
PI = 654+38.52'B'
Y = 466185.28
X = 902565.11
PC = 651+08.58'B'
PT = 657+68.32'B'
T = 329.94
L = 659.73
R = 12600.00
DELTA = 3°00'00.00" LT
D = 00°27'17.02"
SE = NC

US 12/18
CURVE 3 DATA
PI = 691+67.82'B'
Y = 463594.46
X = 905247.73
PC = 684+58.36'B'
PT = 698+23.91'B'
T = 709.47
L = 1365.55
R = 2040.00
DELTA = 38°21'11.00" LT
D = 02°48'31.02"
SE = 5.4%

N

BEGIN CONSTRUCTION
STA 628+50'B'
Y=467909.96
X=900653.01

S 56°28'18" E
630'B'
CURVE 1
640'B'
PI 638+04.08'B'
PC 634+65.64'B'
PT 641+39.40'B'

CALCULATED
CORNER
Y=466725.81
X=901974.01

NULAND RD

STA 645+48'B'=
STA 11+00'NU'
Y=466836.60
X=901957.80

ALUMINUM
MONUMENT
Y=469386.88
X=901898.47

STA 651+98.50'B'=
STA 2000+00'JB'
Y=466361.05
X=902401.66

S 42°59'51" E
650'B'
PI 654+38.52'B'
CURVE 2
JUG RAMP B
660'B'
PC 651+08.58'B'
PT 657+68.32'B'

1.0" IRON PIPE
Y=460969.62
X=902085.30

ALUMINUM
MONUMENT
Y=464091.79
X=902048.78

STH 73

STA 663+97.88'B'=
STA 625+04.34
Y=465518.72
X=903255.29

S 45°59'51" E
670'B'
USH 12/18
JUG RAMP A
680'B'
STA 678+00.00'B'=
STA 1005+03'JA'
Y=464544.68
X=904263.85

SHAUL LN

STH 73

PI 691+67.82'B'
CURVE 3
690'B'
PC 684+58.36'B'

BRASS CAP
MONUMENT
Y=464202.31
X=904696.01

1.25" IRON PIPE
Y=466838.47
X=904657.69

ALUMINUM
MONUMENT
Y=469472.09
X=904596.74

PK NAIL
Y=460990.17
X=904792.43

STA 698+51.16'B'=
STA 10+00'FD'
Y=463521.94
X=905980.87

FADNESS RD
S 84°21'02" E
700'B'
PT 698+23.91'B'

END CONSTRUCTION
STA 702+00'B'
Y=463487.60
X=906328.02

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	ALIGNMENT DIAGRAM - USH 12/18	SHEET 262	E

2

N

NULAND RD
CURVE DATA
PI = 9+28.95'NU'
Y = 466716.63
X = 901829.14
PC = 8+71.76'NU'
PT = 9+81.28'NU'
T = 57.20
L = 109.53
R = 154.00
DELTA = 40°45'00.14" LT
D = 37°12'18.19"
SE = 4.0%

NULAND RD

STA 5+50'NU'
Y=466701.77
X=901450.49

PC 8+71.76'NU'

PT 9+81.28'NU'

N 87°45'10" E

PI 9+28.95'NU'

10'NU'

N 1°00'09" E

STA 11+00'NU'=
STA 645+48'B'
Y=466836.60
X=901957.80

CALCULATED
CORNER
Y=466725.81
X=901974.01

T 7 N R 12 E 33

T 6 N R 12 E 4

1.0" IRON PIPE
Y=460969.62
X=902085.30

T 7 N R 12 E 33 4

ALUMINUM
MONUMENT
Y=464091.79
X=902048.78

T 7 N R 12 E 28 33

ALUMINUM
MONUMENT
Y=469386.88
X=901898.47

STA 2000+00'JB'=
STA 651+98.50'B'
Y=466361.05
X=902401.66

N 44°00'09" E

PC 2004+44.95'JB'

PI 2006+06.26'JB'

JUG RAMP B
CURVE DATA
PI = 2006+06.26'JB'
Y = 466797.13
X = 902822.82
PC = 2004'+44.95'JB'
PT = 2007+49.28'JB'
T = 161.31
L = 304.33
R = 371.00
DELTA = 46°59'58.34" RT
D = 15°26'36.98"
SE = 4.0%

JUG RAMP B

STA 2010+42.73'JB'=
STA 637+75
Y=466789.18
X=903277.52

S 88°59'52" E

PT 2007+49.28'JB'

2010'JB'

STH 73

STA 300+00'SH'=
STA 637+63
Y=466777.18
X=903277.31

PC 311+86.51'SH'

PI 313+01.41'SH'

CURVE 2

S 1°00'08" W

310'SH'

PT 304+72.90'SH'

PC 302+31.00'SH'

CURVE 1

PI 303+85.00'SH'

STA 1005+03'JA'=
STA 678+00.00'B'
Y=464544.68
X=904263.85

STA 1000+00'JA'=
STA 609+49.11
Y=464182.87
X=903914.42

N 44°00'09" E

JUG RAMP A

USH 12/18

SHAUL LN

S 51°53'17" E

CURVE 3

PI 320'SH'

S 21°49'48" E

330'SH'

PT 322+74.29'SH'

PI 320+43.78'SH'

PC 318+02.14'SH'

PT 313+99.75'SH'

STH 73

T 7 N R 12 E 33 34

1.25" IRON PIPE
Y=466838.47
X=904657.69

T 7 N R 12 E 28 27 33 34

ALUMINUM
MONUMENT
Y=469472.09
X=904596.74

T 6 N R 12 E 4 3

PK NAIL
Y=460990.17
X=904792.43

T 7 N R 12 E 33 34 4 3

BRASS CAP
MONUMENT
Y=464202.31
X=904696.01

STA 2+00'FD'
Y=462723.21
X=906026.04

2'FD'

FADNESS RD

N 3°14'10" W

STA 698+51.16'B'=
STA 10+00'FD'
Y=463521.93
X=905980.87

SHAUL LN
CURVE 1 DATA
PI = 303+85.00'SH'
Y = 466770.45
X = 903662.25
PC = 302+31.00'SH'
PT = 304+72.90'SH'
T = 154.00
L = 241.90
R = 154.00
DELTA = 90°00'00.00" RT
D = 37°12'18.19"
SE = 4.0%

SHAUL LN
CURVE 2 DATA
PI = 313+01.41'SH'
Y = 465788.09
X = 903645.06
PC = 311+86.51'SH'
PT = 313+99.75'SH'
T = 114.90
L = 213.24
R = 231.00
DELTA = 52°53'25.21" LT
D = 24°48'12.12"
SE = 3.8%

SHAUL LN
CURVE 3 DATA
PI = 320+43.78'SH'
Y = 465319.68
X = 904242.19
PC = 318+02.14'SH'
PT = 322+74.29'SH'
T = 241.64
L = 472.15
R = 900.00
DELTA = 30°03'29.21" RT
D = 06°21'58.31"
SE = NC

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	ALIGNMENT DIAGRAM - RAMPS & SIDEROADS	SHEET 263	E

DATE 28JAN15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3070-00-73 QUANTITY
0010	201.0105	Clearing	STA	46.000	46.000
0020	201.0115	Clearing	ACRE	7.700	7.700
0030	201.0205	Grubbing	STA	46.000	46.000
0040	201.0215	Grubbing	ACRE	7.700	7.700
0050	203.0100	Removing Small Pipe Culverts	EACH	23.000	23.000
0060	203.0500.S	Removing Old Structure Over Waterway (station) 001. Station 696'B'+30.40	LS	1.000	1.000
0070	203.0500.S	Removing Old Structure Over Waterway (station) 002. Station 588+23	LS	1.000	1.000
0080	203.0500.S	Removing Old Structure Over Waterway (station) 003. Station 592+02	LS	1.000	1.000
0090	204.0100	Removing Pavement	SY	28,380.000	28,380.000
0100	204.0110	Removing Asphaltic Surface	SY	4,815.000	4,815.000
0110	204.0150	Removing Curb & Gutter	LF	1,135.000	1,135.000
0120	204.0165	Removing Guardrail	LF	2,165.000	2,165.000
0130	204.0190	Removing Surface Drains	EACH	7.000	7.000
0140	205.0100	Excavation Common	CY	566,891.000	566,891.000
0150	205.0400	Excavation Marsh	CY	64,538.000	64,538.000
0160	206.1000	Excavation for Structures Bridges (structure) 001.B-13-801	LS	1.000	1.000
0170	206.2000	Excavation for Structures Culverts (structure) 001. B-13-802	LS	1.000	1.000
0180	206.2000	Excavation for Structures Culverts (structure) 002. B-13-358	LS	1.000	1.000
0190	206.2000	Excavation for Structures Culverts (structure) 003. C-13-105	LS	1.000	1.000
0200	208.0100	Borrow	CY	8,171.000	8,171.000
0210	209.0100	Backfill Granular	CY	111,120.000	111,120.000
0220	209.0300.S	Backfill Coarse Aggregate (size) 001. Size No. 2	CY	50.000	50.000
0230	210.0100	Backfill Structure	CY	4,635.000	4,635.000
0240	211.0100	Prepare Foundation for Asphaltic Paving (project) 001. 3070-00-73	LS	1.000	1.000
0250	213.0100	Finishing Roadway (project) 001. 3070-00-73	EACH	1.000	1.000
0260	305.0110	Base Aggregate Dense 3/4-Inch	TON	5,300.000	5,300.000
0270	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	94,570.000	94,570.000
0280	305.0130	Base Aggregate Dense 3-Inch	TON	4,050.000	4,050.000
0290	310.0110	Base Aggregate Open Graded	TON	160.000	160.000
0300	312.0110	Select Crushed Material	TON	137,000.000	137,000.000
0310	405.0100	Coloring Concrete Red	CY	95.000	95.000
0320	415.0070	Concrete Pavement 7-Inch **P**	SY	100.000	100.000
0330	415.0090	Concrete Pavement 9-Inch **P**	SY	48,500.000	48,500.000
0340	415.0210	Concrete Pavement Gaps	EACH	3.000	3.000
0350	415.0410	Concrete Pavement Approach Slab **P**	SY	400.000	400.000
0360	415.6000.S	Rout and Seal	LF	13,250.000	13,250.000
0370	416.0610	Drilled Tie Bars	EACH	400.000	400.000
0380	416.0620	Drilled Dowel Bars	EACH	56.000	56.000
0390	416.1010	Concrete Surface Drains	CY	5.000	5.000
0400	416.1110	Concrete Shoulder Rumble Strips	LF	8,000.000	8,000.000
0410	440.4410.S	Incentive IRI Ride	DOL	10,940.000	10,940.000
0420	455.0105	Asphaltic Material PG58-28	TON	915.000	915.000
0430	455.0120	Asphaltic Material PG64-28	TON	290.000	290.000
0440	455.0605	Tack Coat	GAL	3,060.000	3,060.000
0450	460.1100	HMA Pavement Type E-0.3	TON	1,745.000	1,745.000

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DATE 28JAN15 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3070-00-73 QUANTITY
0460	460.1103	HMA Pavement Type E-3	TON	20,150.000	20,150.000
0470	460.2000	Incentive Density HMA Pavement	DOL	14,020.000	14,020.000
0480	460.4000	HMA Cold Weather Paving	TON	1,805.000	1,805.000
0490	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	12,630.000	12,630.000
0500	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	190.000	190.000
0510	465.0315	Asphaltic Flumes	SY	184.000	184.000
0520	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	11,530.000	11,530.000
0530	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	1,425.000	1,425.000
0540	502.0100	Concrete Masonry Bridges	CY	1,209.000	1,209.000
0550	502.3200	Protective Surface Treatment	SY	2,030.000	2,030.000
0560	502.5005	Masonry Anchors Type L No. 5 Bars	EACH	224.000	224.000
0570	503.0146	Prestressed Girder Type I 45W-Inch **P**	LF	1,574.000	1,574.000
0580	504.0100	Concrete Masonry Culverts **P**	CY	662.000	662.000
0590	504.0900	Concrete Masonry Endwalls	CY	9.000	9.000
0600	505.0405	Bar Steel Reinforcement HS Bridges **P**	LB	23,440.000	23,440.000
0610	505.0410	Bar Steel Reinforcement HS Culverts **P**	LB	75,450.000	75,450.000
0620	505.0605	Bar Steel Reinforcement HS Coated Bridges **P**	LB	160,290.000	160,290.000
0630	505.0610	Bar Steel Reinforcement HS Coated Culverts **P**	LB	3,200.000	3,200.000
0640	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	32.000	32.000
0650	506.4000	Steel Diaphragms (structure) 001. B-13-801 **P**	EACH	28.000	28.000
0660	509.1500	Concrete Surface Repair	SF	10.000	10.000
0670	511.1200	Temporary Shoring (structure) 001. B-13-802	SF	765.000	765.000
0680	516.0500	Rubberized Membrane Waterproofing	SY	151.000	151.000
0690	520.4024	Culvert Pipe Temporary 24-Inch	LF	66.000	66.000
0700	520.8000	Concrete Collars for Pipe	EACH	4.000	4.000
0710	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	204.000	204.000
0720	521.0124	Culvert Pipe Corrugated Steel 24-Inch	LF	138.000	138.000
0730	521.0130	Culvert Pipe Corrugated Steel 30-Inch	LF	212.000	212.000
0740	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	2.000	2.000
0750	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	6.000	6.000
0760	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	4.000	4.000
0770	521.1030	Apron Endwalls for Culvert Pipe Steel 30-Inch	EACH	6.000	6.000
0780	521.1518	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 6 to 1	EACH	2.000	2.000
0790	521.1524	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 24-Inch 6 to 1	EACH	2.000	2.000
0800	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	168.000	168.000
0810	522.0130	Culvert Pipe Reinforced Concrete Class III 30-Inch	LF	644.000	644.000
0820	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	86.000	86.000
0830	522.0142	Culvert Pipe Reinforced Concrete Class III 42-Inch	LF	184.000	184.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3070-00-73 QUANTITY
0840	522.0148	Culvert Pipe Reinforced Concrete Class III 48-Inch	LF	368.000	368.000
0850	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	36.000	36.000
0860	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	4.000	4.000
0870	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	8.000	8.000
0880	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0890	522.1042	Apron Endwalls for Culvert Pipe Reinforced Concrete 42-Inch	EACH	2.000	2.000
0900	523.0138	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 38x60-Inch	LF	136.000	136.000
0910	523.0538	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 38x60-Inch	EACH	2.000	2.000
0920	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	6,900.000	6,900.000
0930	601.0407	Concrete Curb & Gutter 18-Inch Type D **P**	LF	36.000	36.000
0940	601.0551	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A **P**	LF	2,170.000	2,170.000
0950	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D **P**	LF	11,130.000	11,130.000
0960	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D **P**	LF	815.000	815.000
0970	601.0580	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R	LF	220.000	220.000
0980	602.0410	Concrete Sidewalk 5-Inch **P**	SF	4,240.000	4,240.000
0990	603.1136	Concrete Barrier Type S36	LF	4,350.000	4,350.000
1000	603.2136	Concrete Barrier Fixed Object Protection Type S36	LF	233.000	233.000
1010	603.8000	Concrete Barrier Temporary Precast Delivered	LF	14,090.000	14,090.000
1020	603.8125	Concrete Barrier Temporary Precast Installed	LF	20,390.000	20,390.000
1030	604.0400	Slope Paving Concrete	SY	560.000	560.000
1040	606.0200	Riprap Medium	CY	1,560.000	1,560.000
1050	606.0300	Riprap Heavy	CY	265.000	265.000
1060	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	879.000	879.000
1070	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	2,174.000	2,174.000
1080	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	398.000	398.000
1090	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	90.000	90.000
1100	608.0418	Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	LF	438.000	438.000
1110	611.0530	Manhole Covers Type J	EACH	1.000	1.000
1120	611.0610	Inlet Covers Type BW	EACH	26.000	26.000
1130	611.0627	Inlet Covers Type HM	EACH	67.000	67.000
1140	611.0654	Inlet Covers Type V	EACH	2.000	2.000
1150	611.2004	Manholes 4-FT Diameter	EACH	1.000	1.000
1160	611.3004	Inlets 4-FT Diameter	EACH	8.000	8.000
1170	611.3220	Inlets 2x2-FT	EACH	2.000	2.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3070-00-73 QUANTITY
1180	611.3225	Inlets 2x2.5-FT	EACH	26.000	26.000
1190	611.3230	Inlets 2x3-FT	EACH	59.000	59.000
1200	612.0106	Pipe Underdrain 6-Inch	LF	3,005.000	3,005.000
1210	612.0206	Pipe Underdrain Unperforated 6-Inch	LF	145.000	145.000
1220	612.0212	Pipe Underdrain Unperforated 12-Inch	LF	142.000	142.000
1230	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	740.000	740.000
1240	612.0806	Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	EACH	7.000	7.000
1250	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000
1260	614.0305	Steel Plate Beam Guard Class A	LF	137.500	137.500
1270	614.0370	Steel Plate Beam Guard Energy Absorbing Terminal	EACH	1.000	1.000
1280	614.0805	Crash Cushions Permanent Low Maintenance	EACH	4.000	4.000
1290	614.0905	Crash Cushions Temporary	EACH	25.000	25.000
1300	614.2300	MGS Guardrail 3	LF	362.500	362.500
1310	614.2500	MGS Thrie Beam Transition	LF	160.000	160.000
1320	614.2610	MGS Guardrail Terminal EAT	EACH	3.000	3.000
1330	614.2620	MGS Guardrail Terminal Type 2	EACH	1.000	1.000
1340	616.0700.S	Fence Safety	LF	1,000.000	1,000.000
1350	618.0100	Maintenance And Repair of Haul Roads (project) 001. 3070-00-73	EACH	1.000	1.000
1360	619.1000	Mobilization	EACH	1.000	1.000
1370	620.0100	Concrete Corrugated Median **P**	SF	1,200.000	1,200.000
1380	620.0300	Concrete Median Sloped Nose **P**	SF	1,033.000	1,033.000
1390	624.0100	Water	MGAL	1,750.000	1,750.000
1400	625.0500	Salvaged Topsoil	SY	373,500.000	373,500.000
1410	627.0200	Mulching	SY	142,400.000	142,400.000
1420	628.1104	Erosion Bales	EACH	2,630.000	2,630.000
1430	628.1504	Silt Fence	LF	28,250.000	28,250.000
1440	628.1520	Silt Fence Maintenance	LF	28,250.000	28,250.000
1450	628.1905	Mobilizations Erosion Control	EACH	11.000	11.000
1460	628.1910	Mobilizations Emergency Erosion Control	EACH	7.000	7.000
1470	628.2002	Erosion Mat Class I Type A	SY	193,300.000	193,300.000
1480	628.2004	Erosion Mat Class I Type B	SY	28,300.000	28,300.000
1490	628.2008	Erosion Mat Urban Class I Type B	SY	9,500.000	9,500.000
1500	628.5505	Polyethylene Sheeting	SY	1,510.000	1,510.000
1510	628.6510	Soil Stabilizer Type B	ACRE	20.000	20.000
1520	628.7005	Inlet Protection Type A	EACH	117.000	117.000
1530	628.7015	Inlet Protection Type C	EACH	112.000	112.000
1540	628.7020	Inlet Protection Type D	EACH	5.000	5.000
1550	628.7504	Temporary Ditch Checks	LF	4,200.000	4,200.000
1560	628.7555	Culvert Pipe Checks	EACH	175.000	175.000
1570	628.7560	Tracking Pads	EACH	2.000	2.000
1580	628.7560.S	Stone or Rock Ditch Checks	CY	835.000	835.000
1590	628.7570	Rock Bags	EACH	1,120.000	1,120.000
1600	629.0205	Fertilizer Type A	CWT	220.000	220.000
1610	630.0120	Seeding Mixture No. 20	LB	9,000.000	9,000.000
1620	630.0140	Seeding Mixture No. 40	LB	80.000	80.000
1630	630.0200	Seeding Temporary	LB	1,050.000	1,050.000
1640	630.0300	Seeding Borrow Pit	LB	200.000	200.000
1650	633.0500	Delineator Reflectors	EACH	98.000	98.000
1660	633.1000	Delineator Brackets	EACH	51.000	51.000
1670	633.5100	Markers Row	EACH	162.000	162.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3070-00-73 QUANTITY
1680	633.5200	Markers Culvert End	EACH	58.000	58.000
1690	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	16.000	16.000
1700	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	23.000	23.000
1710	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	108.000	108.000
1720	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	32.000	32.000
1730	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	3.000	3.000
1740	634.0622	Posts Wood 4x6-Inch X 22-FT	EACH	1.000	1.000
1750	637.2210	Signs Type II Reflective H	SF	1,371.380	1,371.380
1760	637.2220	Signs Type II Reflective SH	SF	13.500	13.500
1770	637.2230	Signs Type II Reflective F	SF	466.500	466.500
1780	638.2602	Removing Signs Type II	EACH	78.000	78.000
1790	638.3000	Removing Small Sign Supports	EACH	108.000	108.000
1800	642.5401	Field Office Type D	EACH	1.000	1.000
1810	643.0100	Traffic Control (project) 001. 3070-00-73	EACH	1.000	1.000
1820	643.0300	Traffic Control Drums	DAY	21,040.000	21,040.000
1830	643.0420	Traffic Control Barricades Type III	DAY	3,253.000	3,253.000
1840	643.0705	Traffic Control Warning Lights Type A	DAY	4,223.000	4,223.000
1850	643.0715	Traffic Control Warning Lights Type C	DAY	575.000	575.000
1860	643.0900	Traffic Control Signs	DAY	12,411.000	12,411.000
1870	643.0910	Traffic Control Covering Signs Type I	EACH	4.000	4.000
1880	643.0920	Traffic Control Covering Signs Type II	EACH	21.000	21.000
1890	643.1050	Traffic Control Signs PCMS	DAY	406.000	406.000
1900	643.2000	Traffic Control Detour (project) 001. 3070-00-73	EACH	1.000	1.000
1910	643.3000	Traffic Control Detour Signs	DAY	34,779.000	34,779.000
1920	645.0105	Geotextile Fabric Type C	SY	810.000	810.000
1930	645.0111	Geotextile Fabric Type DF Schedule A	SY	1,600.000	1,600.000
1940	645.0120	Geotextile Fabric Type HR	SY	4,610.000	4,610.000
1950	645.0140	Geotextile Fabric Type SAS	SY	4,100.000	4,100.000
1960	646.0106	Pavement Marking Epoxy 4-Inch	LF	90,900.000	90,900.000
1970	646.0600	Removing Pavement Markings	LF	62,700.000	62,700.000
1980	646.0805.S	Pavement Marking Outfall	EACH	7.000	7.000
1990	646.0843.S	Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	LF	3,460.000	3,460.000
2000	646.0883.S	Pavement Marking Grooved Wet Reflective Tape 8-Inch	LF	2,100.000	2,100.000
2010	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	23.000	23.000
2020	647.0356	Pavement Marking Words Epoxy	EACH	11.000	11.000
2030	647.0456	Pavement Marking Curb Epoxy	LF	470.000	470.000
2040	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	142.000	142.000
2050	647.0606	Pavement Marking Island Nose Epoxy	EACH	12.000	12.000
2060	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	3,400.000	3,400.000
2070	648.0100	Locating No-Passing Zones	MI	0.290	0.290
2080	649.0100	Temporary Pavement Marking 4-Inch	LF	89,190.000	89,190.000
2090	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	62,690.000	62,690.000
2100	649.0701	Temporary Pavement Marking 8-Inch	LF	600.000	600.000
2110	649.0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	720.000	720.000
2120	649.1100	Temporary Pavement Marking Stop Line 18-Inch	LF	70.000	70.000
2130	649.1200	Temporary Pavement Marking Stop Line Removable Tape 18-Inch	LF	25.000	25.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	3070-00-73 QUANTITY
2140	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	50.000	50.000
2150	655.0625	Electrical Wire Lighting 6 AWG	LF	230.000	230.000
2160	656.0200	Electrical Service Meter Breaker Pedestal (location) 001. Mb1	LS	1.000	1.000
2170	656.0200	Electrical Service Meter Breaker Pedestal (location) 002. Mb2	LS	1.000	1.000
2180	656.0500	Electrical Service Breaker Disconnect Box (location) 001. Cctv-13-0115	LS	1.000	1.000
2190	656.0500	Electrical Service Breaker Disconnect Box (location) 002. Cctv-13-0116	LS	1.000	1.000
2200	659.0802	Plaques Sequence Identification	EACH	10.000	10.000
2210	670.0100	Field System Integrator	LS	1.000	1.000
2220	670.0200	ITS Documentation	LS	1.000	1.000
2230	673.0225.S	Install Pole Mounted Cabinet	EACH	2.000	2.000
2240	677.0200	Install Camera Assembly	EACH	2.000	2.000
2250	677.0300.S	Install Video Encoder	EACH	2.000	2.000
2260	690.0150	Sawing Asphalt	LF	3,000.000	3,000.000
2270	690.0250	Sawing Concrete	LF	2,950.000	2,950.000
2280	715.0415	Incentive Strength Concrete Pavement	DOL	3,660.000	3,660.000
2290	715.0502	Incentive Strength Concrete Structures	DOL	11,240.000	11,240.000
2300	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000
2310	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	3,332.000	3,332.000
2320	SPV.0060	Special 001. Baseline Cpm Progress Schedule	EACH	1.000	1.000
2330	SPV.0060	Special 002. Cpm Progress Schedule Updates And Accepted Revisions	EACH	7.000	7.000
2340	SPV.0060	Special 003. Landmark Reference Monuments Special	EACH	1.000	1.000
2350	SPV.0060	Special 004. Removing Geodetic Survey Monument	EACH	1.000	1.000
2360	SPV.0060	Special 401. Install Cellular Modem	EACH	2.000	2.000
2370	SPV.0060	Special 402. Poles Wood 65-Ft	EACH	2.000	2.000
2380	SPV.0060	Special 403. Poles Wood 30-Ft	EACH	1.000	1.000
2390	SPV.0060	Special 404. Install Hardwired Bluetooth Sensor	EACH	2.000	2.000
2400	SPV.0060	Special 405. Install Solar-Powered Bluetooth Sensor	EACH	1.000	1.000
2410	SPV.0085	Special 701. Bar Steel Reinforcement Hs Stainless Bridges	LB	2,220.000	2,220.000
2420	SPV.0105	Special 001. Concrete Pavement Joint Layout	LS	1.000	1.000
2430	SPV.0105	Special 002. Temporary Sand Bag Dike (B-13-802)	LS	1.000	1.000
2440	SPV.0105	Special 003. Temporary Sand Bag Dike (B-13-358)	LS	1.000	1.000
2450	SPV.0105	Special 004. Temporary Sand Bag Dike (C-13-105)	LS	1.000	1.000
2460	SPV.0105	Special 005. Temporary Culvert Pipe Connection	LS	1.000	1.000
2470	SPV.0105	Special 010. Survey Project 3070-00-73	LS	1.000	1.000
2480	SPV.0195	Special 001. Qmp Base Aggregate Dense 1 1/4-Inch Compaction	TON	94,200.000	94,200.000

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CLEARING AND GRUBBING

STATION-STATION	LOCATION	201.0105 CLEARING STA	201.0115 CLEARING ACRE	201.0205 GRUBBING STA	201.0215 GRUBBING ACRE	COMMENTS
CAT 1000						
STAGE 2						
606+00 - 613+00	LT & RT	7	--	7	--	
612+60 - 618+10	LT & RT	--	1.6	--	1.6	
621+00 - 622+00	RT	1	--	1	--	
638+00 - 653+00	LT & RT	15	--	15	--	STAGE 2 & 3
632+10 - 645+75	LT	--	6.1	--	6.1	INCLUDES JUG RAMP B
638+00'B' - 639+00'B'	LT & RT	1	--	1	--	STAGE 2 & 3
679+00'B' - 683+00'B'	LT & RT	4	--	4	--	
694+00'B' - 700+00'B'	LT & RT	6	--	6	--	STAGE 2 & 3
1002+00'JA' - 1003+00'JA'	LT & RT	1	--	1	--	
STAGE 2 SUBTOTALS		35	7.7	35	7.7	
STAGE 3						
584+25 - 590+00	LT & RT	5	--	5	--	
591+00 - 593+00	LT	2	--	2	--	
642+00'B' - 643+00'B'	RT	1	--	1	--	
323+00'SH' - 324+00'SH'	LT	1	--	1	--	
328+00'SH' - 629+00'SH'	LT	1	--	1	--	
7+00'FD' - 8+00'FD'	LT	1	--	1	--	
STAGE 3 SUBTOTALS		11	--	11	--	
TOTALS		46	7.7	46	7.7	

REMOVING PAVEMENT

STATION - STATION	LOCATION	204.0100 SY	COMMENTS
CAT 1000			
STAGE 3			
628+50'B' - 645+50'B'	LT & RT	2,650	USH 12/18
685+24'B' - 687+27'B'	RT	1,050	STH 73 INTERSECTION
690+13'B' - 702+00'B'	LT & RT	2000	US 12/18
STAGE 3 SUBTOTAL		5,700	
STAGE 4			
628+50'B' - 702+00'B'	LT & RT	21400	USH 12/18
658+94'B' - 661+87'B'	LT	1,280	STH 73 INTERSECTION
STAGE 4 SUBTOTAL		22,680	
TOTAL		28,380	

3

REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	EXISTING PIPE SIZE	EXISTING PIPE LENGTH FT	203.0100 EACH	COMMENTS
CAT 1000					
STAGE 2					
637+87 'B'	LT	24" CMCP	64	2	DRIVEWAY
STAGE 2 SUBTOTAL				2	
STAGE 3					
596+53	RT	--	34	1	DRIVEWAY
596+67	RT & LT	--	34	1	DRIVEWAY
637+82 'B'	RT	18" CMCP	50	1	USH 12/18
644+99 'B'	RT & LT	38" x 60" RCCHE	94	1	USH 12/18, STAGE 3 & 4
646+20 'B'	RT	24" CMCP	96	1	NULAND RD
681+02 'B'	LT	24" RCCP	118	1	USH 12/18, STAGE 3 & 4
687+72 'B'	RT & LT	24" RCCP	110	1	USH 12/18, STAGE 3 & 4
698+54 'B'	RT	24" CMCP	84	1	FADNESS RD
9+09 'NU'	RT & LT	--	24	1	NULAND RD
STAGE 3 SUBTOTAL				9	
STAGE 4					
633+42	RT	18" CMCP	74	1	DRIVEWAY
633+56	RT	18" CMCP	32	1	DRIVEWAY
634+74	RT	19" X 30" RCCHE	86	1	STH 73
642+75	RT & LT	48" RCCP	72	1	STH 73
642+79	RT	18" RCCP	32	1	DRIVEWAY
642+82	RT	24" CMCP	32	1	DRIVEWAY
642+84	RT	24" CMCP	32	1	DRIVEWAY
642+85	RT & LT	48" RCCP	72	1	STH 73
642+89	RT	24" RCCP	32	1	DRIVEWAY
660+76 'B'	LT	24" RCCP	134	1	STH 73
683+78 'B'	LT	15" CMCP	46	1	DRIVEWAY
689+96 'B'	LT	--	46	1	DRIVEWAY
STAGE 4 SUBTOTAL				12	
TOTAL				23	

3

REMOVING ASPHALTIC SURFACE

STATION - STATION	LOCATION	204.0110 SY	COMMENTS
CAT 1000			
STAGE 1			
644+88'BE' - 647+78'BE'	RT	110	NULAND RD INTERSECTION
697+58'BE' - 699+50'BE'	RT	125	FADNESS RD INTERSECTION
STAGE 1 SUBTOTAL		235	
STAGE 4			
619+69'B' - 620+57'B'	LT	50	USH 12/18
621+64'B' - 628+50'B'	LT	570	USH 12/18
702+00'B' - 708+60'B'	LT	415	USH 12/18
STAGE 4 SUBTOTAL		1,035	
STAGE 5			
619+65'B' - 628+50'B'	RT	630	USH 12/18
621+00'B' - 623+00'B'	LT	40	USH 12/18
702+00'B' - 710+50'B'	RT	530	USH 12/18
707+66'B' - 710+48'B'	LT	90	USH 12/18
1002+87'JA' - 1004+74'JA'	LT & RT	1,140	JUG RAMP A
2000+30'JB' - 2002+96'JB'	LT & RT	1,115	JUG RAMP B
STAGE 5 SUBTOTAL		3,545	
TOTAL		4,815	

REMOVING SURFACE DRAINS

STATION	LOCATION	204.0190 EACH	COMMENTS
CAT 1000			
STAGE 3			
697+80'B'	RT	1	USH 12/18
699+18'B'	RT	1	USH 12/18
10+26'NU'	RT	1	NULAND RD
10+60'NU'	RT	1	NULAND RD
STAGE 3 SUBTOTALS		4	
STAGE 4			
659+79'B'	LT	1	USH 12/18
661+22'B'	LT	1	USH 12/18
661+96'B'	LT	1	USH 12/18
STAGE 4 SUBTOTALS		3	
TOTAL		7	

REMOVING CURB & GUTTER

STATION - STATION	LOCATION	204.0150 LF	COMMENTS
CAT 1000			
STAGE 2			
662+03'BE' - 666+46'BE'	RT	444	USH 12/18
STAGE 2 SUBTOTAL		444	
STAGE 3			
645+54'BE' - 646+10'BE'	RT	114	USH 12/18 - NULAND RD / INTERSECTION
646+43'BE' - 646+90'BE'	RT	68	USH 12/18 - NULAND RD / INTERSECTION
697+84'BE' - 698+53'BE'	RT	100	USH 12/18 - FADNESS RD / INTERSECTION
698+74'BE' - 699+15'BE'	RT	74	USH 12/18 - FADNESS RD / INTERSECTION
STAGE 3 SUBTOTAL		356	
STAGE 4			
630+10 - 630+35	LT & RT	75	STH 73 - SHAUL LN INTERSECTION
630+58 - 631+25	RT	73	STH 73 - SHAUL LN INTERSECTION
635+26 - 637+12	RT	187	STH 73
STAGE 4 SUBTOTAL		335	
TOTAL		1,135	

PREPARE FOUNDATION FOR ASPHALTIC PAVING (3070-00-73)

STATION - STATION	211.0100.001 LS
CAT 1000	
STA 619+63'B' - STA 710+48'B'	1
TOTAL	1

REMOVING GUARDRAIL

STATION - STATION	LOCATION	204.0165 LF	COMMENTS
CAT 1000			
STAGE 2			
695+50'B' - 697+40'B'	LT	177	USH 12/18
STAGE 2 SUBTOTAL		177	
STAGE 3			
587+10 - 593+50	LT	610	STH 73
587+40 - 593+00	RT	560	STH 73
695+50'B' - 697+40'B'	RT	178	USH 12/18
321+57'SH'	LT	10	SHAUL LN
STAGE 3 SUBTOTAL		1,358	
STAGE 4			
635+48 - 640+52	RT	505	STH 73
653+86 - 655+10	RT	125	STH 73
STAGE 4 SUBTOTAL		630	
TOTAL		2,165	

FINISHING ROADWAY (3070-00-73)

LOCATION	213.0100.001 EACH
CAT 1000	
PROJECT	1
TOTAL	1

EARTHWORK SUMMARY

DIVISION	STAGE	FROM/TO STATION	LOCATION	205.0100 EXCAVATION COMMON (CY) NOTE 14		SALVAGED / UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL	205.0400 EXCAVATION MARSH CY	REDUCED MARSH IN FILL FACTOR 0.60	REDUCED EBS IN FILL FACTOR 0.80	EXPANDED MARSH IN FILL FACTOR 1.50	EXPANDED EBS IN FILL FACTOR 1.30	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.25	MASS ORDINATE +/-	WASTE	208.0100 BORROW CY	209.0100 BACKFILL GRANULAR CY		* 312.0110 SELECT CRUSHED MATERIAL TON
				CUT	EBS EXCAVATION													BACKFILL EBS	BACKFILL EXC. MARSH	BACKFILL EXC. MARSH
				NOTE 1	NOTES 10&11	NOTE 2	NOTE 13	NOTES 11&12	NOTE 7	NOTE 8	NOTE 5	NOTE 6	NOTE 3	NOTE 4	NOTE 9			NOTES 10&11	NOTES 11&12	NOTES 11&12
ID 3070-00-73																				
1	1	619+63'BE' - 658+16'BE'	USH 12/18 EB SHLD, RT *	267	0	6	261	0	0	0	0	0	0	0	261	--	--	0	0	0
1	1	668+30'BE' - 682+00'BE'	USH 12/18 EB SHLD, RT *	49	0	0	49	0	0	0	0	0	0	0	49	--	--	0	0	0
1	1	688+10'BE' - 697+58'BE'	USH 12/18 EB SHLD, RT *	55	0	0	55	0	0	0	0	0	0	0	55	--	--	0	0	0
1	1	699+51'BE' - 710+32'BE'	USH 12/18 EB SHLD, RT *	77	0	0	77	0	0	0	0	0	0	0	77	--	--	0	0	0
1	2	621+64'BE' - 659+50'BE'	USH 12/18 TEMP WIDENING, LT	3,316	0	20	3,296	0	0	0	0	0	1,855	2,319	977	--	--	0	0	0
1	2	663+55'BE' - 669+00'BE'	USH 12/18 TEMP WIDENING, LT	262	0	0	262	0	0	0	0	0	0	0	262	--	--	0	0	0
1	2	688+35'BE' - 710+38'BE'	USH 12/18 TEMP WIDENING, LT	3,142	0	0	3,142	590	354	0	884	0	1,254	1,126	2,016	--	--	0	884	0
1	2	598+00 - 625+55	STH 73	23,456	0	46	23,410	42,559	25,535	0	63,838	0	147,020	151,856	-128,445	--	--	0	48,738	22,650
1	2	610+64 - 621+80	STH 73 INFILTRATION BASIN	49,381	0	0	49,381	0	0	0	0	0	7	9	49,371	--	--	0	0	0
1	2	637+15 - 655+10	STH 73, LT	6,321	0	0	6,321	0	0	0	0	0	5,392	6,740	-419	--	--	0	0	0
1	2	1000+44'JA' - 1004+71'JA'	JUG RAMP A	933	1,359	0	933	4,353	2,612	1,088	6,530	1,767	42,522	48,529	-47,596	--	--	1,767	6,530	0
1	2	2000+32'JB' - 2009+93'JB'	JUG RAMP B	82,481	0	0	82,481	0	0	0	0	0	2,398	2,998	79,483	--	--	0	0	0
1	2	653+36'B' - 661+62'B'	USH 12/18 & JUG RAMP B INFIELD AREA	126,244	0	0	126,244	0	0	0	0	0	0	0	126,244	--	--	0	0	0
1	2	663+00'B' - 664+95'B'	BRIDGE ABUTMENTS	1,360	0	0	1,360	0	0	0	0	0	0	0	1,360	--	--	0	0	2,600
1	2	PROJECT	DRIVEWAYS **	332	0	28	304	0	0	0	0	0	0	0	304	--	--	0	0	0
1	3	584+25 - 598+00	STH 73	3,149	2,023	458	2,691	10,629	6,378	1,619	15,944	2,630	3,778	-5,272	7,963	--	--	2,630	11,239	7,058
1	3	598+00 - 603+00	EXISTING STH 73 SOUTH LEG REMOVAL	8,561	0	167	8,394	0	0	0	0	0	0	0	8,395	--	--	0	0	0
1	3	628+50'B' - 702+00'B'	USH 12/18	23,035	3,404	1,601	21,434	6,407	3,844	2,723	9,611	4,425	115,426	136,072	-114,638	--	--	4,425	9,611	0
1	3	300+49'SH' - 315+00'SH'	SHAUL LN	22,561	5,281	110	22,451	0	0	4,225	0	6,865	12,437	10,266	12,186	--	--	6,865	0	0
1	3	321+17'SH' - 329+46'SH'	SHAUL LN	719	0	0	719	0	0	0	0	0	594	743	-24	--	--	0	0	0
1	3	6+50'NU' - 10+62'NU'	NULAND RD	379	1,193	91	288	0	0	954	0	1,551	2,891	2,421	-2,133	--	--	1,551	0	0
1	3	6+75'FD' - 9+00'FD'	FADNESS RD	510	393	168	342	0	0	314	0	511	114	-250	592	--	--	511	0	0
1	3	621+95'B' - 643+83'B'	USH 12/18 TEMP WIDENING, RT	2,180	0	0	2,180	0	0	0	0	0	950	1,188	992	--	--	0	0	0
1	3	693+18'B' - 708+75'B'	USH 12/18 TEMP WIDENING, RT	1,408	0	0	1,408	0	0	0	0	0	1,496	1,870	-462	--	--	0	0	0
1	3	PROJECT	DRIVEWAYS **	412	0	20	392	0	0	0	0	0	3,354	4,193	-3,801	--	--	0	0	0
SUBTOTALS				360,590	13,653	2,715	357,875	64,538	38,724	10,924	96,805	17,749	341,488	364,806	-6,931	0	6,931	17,749	77,000	32,308
				374,243														94,749		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT IN BOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES BOTH CONCRETE AND ASPHALTIC PAVEMENTS
3 - FILL	INCLUDES BACKFILL OF SALVAGED/UNUSABLE PAVEMENT MATERIAL EXCAVATION AREAS TO BE REMOVED BELOW THE ULTIMATE SUBGRADE IN FILL SECTIONS
4 - EXPANDED FILL	((UNEXPANDED FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)
5 - EXPANDED MARSH BACKFILL	(MARSH EXCAVATION * EXPANDED MARSH BACKFILL FACTOR)
6 - EXPANDED EBS BACKFILL	(EBS EXCAVATION * EXPANDED EBS BACKFILL FACTOR)
7 - REDUCED MARSH IN FILL	(EXCAVATION MARSH * REDUCED MARSH FILL FACTOR)
8 - REDUCED EBS IN FILL	(EBS EXCAVATION * REDUCED EBS FILL FACTOR)
9 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORTAGE OF MATERIAL
10 - EBS EXCAVATION	EBS EXCAVATION IS PAID AS EXCAVATION COMMON AND IS SHOWN ON CROSS SECTIONS
11 - MARSH EXCAVATION	MARSH EXCAVATION IS PAID AS EXCAVATION MARSH AND IS SHOWN ON CROSS SECTIONS
12 - EBS & MARSH EXCAVATION	EBS AND MARSH EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL WHEN PLACED BELOW THE WATER TABLE AND BACKFILL GRANULAR WHEN PLACED ABOVE THE WATER TABLE; SEE CONSTRUCTION DETAILS FOR EXCAVATION MARSH AND EBS FOR DISPOSAL LOCATIONS WITHIN A FILL SLOPE; EXCAVATION MARSH AND EBS ARE CALCULATED IN THE MASS ORDINATE TO ALLOW DISPOSAL IN THE FILL SLOPES
13 - AVAILABLE MATERIAL	((CUT) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL))
14 - EXCAVATION COMMON	EXCAVATION COMMON (ITEM 205.0100) IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS
OTHER NOTES:	* CUT VOLUMES BASED ON STAGE 1 TYPICAL SECTION; NO CROSS SECTIONS PROVIDED
	** CALCULATED FROM PLAN; NO CROSS SECTIONS PROVIDED
	*** REMOVAL OF TEMPORARY WIDENING INCLUDES REMOVAL OF TEMPORARY PAVEMENT AND BASE AGGREGATE AND FILLING/CUTTING THE FINISHED SURFACE BACK TO THE ORIGINAL EXISTING GROUND ELEVATIONS IN AREAS OUTSIDE OF THE ULTIMATE SLOPE INTERCEPTS THAT ARE SHOWN ON THE CROSS SECTIONS FOR USH 12/18
	* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONTINUED ON NEXT SHEET

EARTHWORK SUMMARY (CONT.)

DIVISION	STAGE	FROM/TO STATION	LOCATION	205.0100 EXCAVATION COMMON (CY) NOTE 14		SALVAGED / UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL	205.0400 EXCAVATION MARSH CY	REDUCED MARSH IN FILL FACTOR 0.60	REDUCED EBS IN FILL FACTOR 0.80	EXPANDED MARSH IN FILL FACTOR 1.50	EXPANDED EBS IN FILL FACTOR 1.30	UNEXPANDED FILL	EXPANDED FILL FACTOR 1.25	MASS ORDINATE +/-	WASTE	208.0100 BORROW CY	209.0100 BACKFILL GRANULAR CY		* 312.0110 SELECT CRUSHED MATERIAL TON
				CUT	EBS EXCAVATION													BACKFILL EBS	BACKFILL EXC. MARSH	BACKFILL EXC. MARSH
				NOTE 1	NOTES 10&11	NOTE 2	NOTE 13	NOTES 11&12	NOTE 7	NOTE 8	NOTE 5	NOTE 6	NOTE 3	NOTE 4	NOTE 9			NOTES 10&11	NOTES 11&12	NOTES 11&12
ID 3070-00-73																				
2	4	625+55 - 637+15	STH 73 LT & RT	118,659	0	617	118,042	0	0	0	0	0	192	240	117,802	--	--	0	0	0
2	4	637+15 - 655+10	STH 73	10,282	5,516	920	9,362	0	0	4,413	0	7,171	6,074	2,077	7,284	--	--	7,171	0	0
2	4	628+50'B' - 702+00'B'	USH 12/18	43,863	0	5,949	37,914	0	0	0	0	0	21,210	26,513	11,402	--	--	0	0	0
2	4	801+75'SH' - 804+50'SH'	EXISTING SHAUL LN REMOVAL	905	0	102	803	0	0	0	0	0	0	0	803	--	--	0	0	0
2	4	621+64'B' - 629+00'B'	USH 12/18 TEMP WIDENING REMOVAL, LT ***	421	0	105	316	0	0	0	0	0	1,145	1,431	-1,115	--	--	0	0	0
2	4	629+00'B' - 659+50'B'	USH 12/18 TEMP WIDENING REMOVAL, LT ***	3,916	0	572	3,344	0	0	0	0	0	2,171	2,714	630	--	--	0	0	0
2	4	663+55'B' - 669+00'B'	USH 12/18 TEMP WIDENING REMOVAL, LT ***	70	0	16	54	0	0	0	0	0	262	328	-274	--	--	0	0	0
2	4	688+35'B' - 702+00'B'	USH 12/18 TEMP WIDENING REMOVAL, LT ***	1,852	0	360	1,492	0	0	0	0	0	1,344	1,680	-188	--	--	0	0	0
2	4	702+00'B' - 710+38'B'	USH 12/18 TEMP WIDENING REMOVAL, LT ***	488	0	109	379	0	0	0	0	0	454	568	-189	--	--	0	0	0
2	4	PROJECT	DRIVEWAYS **	48	0	8	40	0	0	0	0	0	64	80	-40	--	--	0	0	0
2	4	UNDISTRIBUTED	STONE DITCH CHECK SEDIMENT REMOVAL	1,200	0	0	1,200	0	0	0	0	0	0	0	1,200	--	--	0	0	0
SUBTOTALS				181,704	5,516	8,758	172,946	0	0	4,413	0	7,171	32,916	35,629	137,315	137,315	0	7,171	0	0
				187,220														7,171		

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT IN BOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES BOTH CONCRETE AND ASPHALTIC PAVEMENTS
3 - FILL	INCLUDES BACKFILL OF SALVAGED/UNUSABLE PAVEMENT MATERIAL EXCAVATION AREAS TO BE REMOVED BELOW THE ULTIMATE SUBGRADE IN FILL SECTIONS
4 - EXPANDED FILL	((UNEXPANDED FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)
5 - EXPANDED MARSH BACKFILL	(MARSH EXCAVATION * EXPANDED MARSH BACKFILL FACTOR)
6 - EXPANDED EBS BACKFILL	(EBS EXCAVATION * EXPANDED EBS BACKFILL FACTOR)
7 - REDUCED MARSH IN FILL	(EXCAVATION MARSH * REDUCED MARSH FILL FACTOR)
8 - REDUCED EBS IN FILL	(EBS EXCAVATION * REDUCED EBS FILL FACTOR)
9 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORTAGE OF MATERIAL
10 - EBS EXCAVATION	EBS EXCAVATION IS PAID AS EXCAVATION COMMON AND IS SHOWN ON CROSS SECTIONS
11 - MARSH EXCAVATION	MARSH EXCAVATION IS PAID AS EXCAVATION MARSH AND IS SHOWN ON CROSS SECTIONS
12 - EBS & MARSH EXCAVATION	EBS AND MARSH EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL WHEN PLACED BELOW THE WATER TABLE AND BACKFILL GRANULAR WHEN PLACED ABOVE THE WATER TABLE; SEE CONSTRUCTION DETAILS FOR EXCAVATION MARSH AND EBS FOR DISPOSAL LOCATIONS WITHIN A FILL SLOPE; EXCAVATION MARSH AND EBS ARE CALCULATED IN THE MASS ORDINATE TO ALLOW DISPOSAL IN THE FILL SLOPES
13 - AVAILABLE MATERIAL	((CUT) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL))
14 - EXCAVATION COMMON	EXCAVATION COMMON (ITEM 205.0100) IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS
OTHER NOTES:	* CUT VOLUMES BASED ON STAGE 1 TYPICAL SECTION; NO CROSS SECTIONS PROVIDED
	** CALCULATED FROM PLAN; NO CROSS SECTIONS PROVIDED
	*** REMOVAL OF TEMPORARY WIDENING INCLUDES REMOVAL OF TEMPORARY PAVEMENT AND BASE AGGREGATE AND FILLING/CUTTING THE FINISHED SURFACE BACK TO THE ORIGINAL EXISTING GROUND ELEVATIONS IN AREAS OUTSIDE OF THE ULTIMATE SLOPE INTERCEPTS THAT ARE SHOWN ON THE CROSS SECTIONS FOR USH 12/18
	* ADDITIONAL QUANTITIES LISTED ELSEWHERE

EARTHWORK SUMMARY (CONT.)

DIVISION	STAGE	FROM/TO STATION	LOCATION	205.0100 EXCAVATION COMMON (CY) NOTE 14		SALVAGED / UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL	205.0400 EXCAVATION MARSH CY	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	EXPANDED MARSH IN FILL	EXPANDED EBS IN FILL	UNEXPANDED FILL	EXPANDED FILL	MASS ORDINATE +/-	WASTE	208.0100 BORROW CY	209.0100 BACKFILL GRANULAR CY		* 312.0110 SELECT CRUSHED MATERIAL TON
				CUT	EBS EXCAVATION				FACTOR 0.60	FACTOR 0.80	FACTOR 1.50	FACTOR 1.30		FACTOR 1.25				BACKFILL EBS	BACKFILL EXC. MARSH	BACKFILL EXC. MARSH
				NOTE 1	NOTES 10&11	NOTE 2	NOTE 13	NOTES 11&12	NOTE 7	NOTE 8	NOTE 5	NOTE 6	NOTE 3	NOTE 4	NOTE 9			NOTES 10&11	NOTES 11&12	NOTES 11&12
ID 3070-00-73																				
3	5B	621+95'B' - 628+50'B'	USH 12/18 TEMP WIDENING REMOVAL, RT	385	0	97	288	0	0	0	0	0	2,384	2,980	-2,692	--	--	0	0	0
3	5B	628+50'B' - 643+83'B'	USH 12/18 TEMP WIDENING REMOVAL, RT	1,470	0	123	1,347	0	0	0	0	0	480	600	747	--	--	0	0	0
3	5A	693+18'B' - 702+00'B'	USH 12/18 TEMP WIDENING REMOVAL, RT	1,984	0	126	1,858	0	0	0	0	0	997	1,246	612	--	--	0	0	0
3	5A	702+00'B' - 708+75'B'	USH 12/18 TEMP WIDENING REMOVAL, RT	452	0	96	356	0	0	0	0	0	880	1,100	-744	--	--	0	0	0
3	5A	1002+87'JA' - 1004+74'JA'	JUG RAMP A ISLAND TEMP PAVEMENT REMOVAL	765	0	176	589	0	0	0	0	0	0	0	589	--	--	0	0	0
3	5B	2000+30'JB' - 2002+96'JB'	JUG RAMP B ISLAND TEMP PAVEMENT REMOVAL	372	0	124	248	0	0	0	0	0	0	0	248	--	--	0	0	0
SUBTOTALS				5,428	0	742	4,686	0	0	0	0	0	4,741	5,926	-1,240	0	1,240	0	0	0
				5,428														0		
		UNDISTRIBUTED	PROJECT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9,200		3,050
TOTALS				566,891				64,538									8,171	111,120		35,358

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT IN BOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES BOTH CONCRETE AND ASPHALTIC PAVEMENTS
3 - FILL	INCLUDES BACKFILL OF SALVAGED/UNUSABLE PAVEMENT MATERIAL EXCAVATION AREAS TO BE REMOVED BELOW THE ULTIMATE SUBGRADE IN FILL SECTIONS
4 - EXPANDED FILL	((UNEXPANDED FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)
5 - EXPANDED MARSH BACKFILL	(MARSH EXCAVATION * EXPANDED MARSH BACKFILL FACTOR)
6 - EXPANDED EBS BACKFILL	(EBS EXCAVATION * EXPANDED EBS BACKFILL FACTOR)
7 - REDUCED MARSH IN FILL	(EXCAVATION MARSH * REDUCED MARSH FILL FACTOR)
8 - REDUCED EBS IN FILL	(EBS EXCAVATION * REDUCED EBS FILL FACTOR)
9 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORTAGE OF MATERIAL
10 - EBS EXCAVATION	EBS EXCAVATION IS PAID AS EXCAVATION COMMON AND IS SHOWN ON CROSS SECTIONS
11 - MARSH EXCAVATION	MARSH EXCAVATION IS PAID AS EXCAVATION MARSH AND IS SHOWN ON CROSS SECTIONS
12 - EBS & MARSH EXCAVATION	EBS AND MARSH EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL WHEN PLACED BELOW THE WATER TABLE AND BACKFILL GRANULAR WHEN PLACED ABOVE THE WATER TABLE; SEE CONSTRUCTION DETAILS FOR EXCAVATION MARSH AND EBS FOR DISPOSAL LOCATIONS WITHIN A FILL SLOPE; EXCAVATION MARSH AND EBS ARE CALCULATED IN THE MASS ORDINATE TO ALLOW DISPOSAL IN THE FILL SLOPES
13 - AVAILABLE MATERIAL	((CUT) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL))
14 - EXCAVATION COMMON	EXCAVATION COMMON (ITEM 205.0100) IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS
OTHER NOTES:	* CUT VOLUMES BASED ON STAGE 1 TYPICAL SECTION; NO CROSS SECTIONS PROVIDED
	** CALCULATED FROM PLAN; NO CROSS SECTIONS PROVIDED
	*** REMOVAL OF TEMPORARY WIDENING INCLUDES REMOVAL OF TEMPORARY PAVEMENT AND BASE AGGREGATE AND FILLING/CUTTING THE FINISHED SURFACE BACK TO THE ORIGINAL EXISTING GROUND ELEVATIONS IN AREAS OUTSIDE OF THE ULTIMATE SLOPE INTERCEPTS THAT ARE SHOWN ON THE CROSS SECTIONS FOR USH 12/18
	* ADDITIONAL QUANTITIES LISTED ELSEWHERE

BASE AGGREGATE AND SELECT CRUSHED ITEMS

STATION - STATION	LOCATION	305.0110 3/4-INCH TON	* 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0130 3-INCH TON	* 312.0110 SELECT CRUSHED MATERIAL TON	SPV.0195.001 QMP BASE AGGREGATE DENSE 1 1/4-INCH COMPACTION TON	COMMENTS
CAT 1000							
STAGE 2							
598+00 - 609+50	LT & RT	375	6,460	--	6,755	6,460	STH 73
609+50 - 625+50	LT & RT	480	9,550	--	10,190	9,550	STH 73
1000+44'JA' - 1003+15'JA'	LT & RT	45	1,645	--	1,775	1,645	JUG RAMP A
1003+15'JA' - 1004+65'JA'	LT & RT	--	1,020	--	2,345	1,020	JUG RAMP A
2001+43'JB' - 2009+94'JB'	LT & RT	185	4,530	--	4,735	4,530	JUG RAMP B
618+45'BE' - 670+00'BE'	LT	100	4,685	--	--	4,685	TEMPORARY WIDENING
688+21'BE' - 710+38'BE'	LT	40	2,650	--	--	2,650	TEMPORARY WIDENING
DRIVEWAYS	LT & RT	65	90	--	--	90	PROJECT
STAGE 2 SUBTOTALS		1,290	30,630	--	25,800	30,630	
STAGE 3							
584+25 - 598+00	LT & RT	545	5,675	--	5,679	5,675	STH 73
628+50'B' - 652+00'B'	LT & RT	230	4,020	--	7,641	4,020	USH 12/18
652+00'B' - 664+00'B'	LT & RT	125	3,520	--	7,560	3,520	USH 12/18
664+00'B' - 678+00'B'	LT & RT	135	3,850	--	8,885	3,850	USH 12/18
678+00'B' - 702+00'B'	LT & RT	250	5,455	--	11,010	5,455	USH 12/18
300+44'SH' - 315+00'SH'	LT & RT	335	3,070	2,280	--	3,070	SHAUL LN
321+16'SH' - 329+43'SH'	LT & RT	130	1,470	1,050	--	1,470	SHAUL LN
6+50'NU' - 10+02'NU'	LT & RT	56	530	365	--	530	NULAND RD
10+02'NU' - 10+62'NU'	LT & RT	--	140	--	--	140	NULAND RD
6+75'FD' - 7+96'FD'	LT & RT	24	470	355	--	470	FADNESS RD
621+97'B' - 650+13'B'	RT	55	1,750	--	--	1,750	TEMPORARY WIDENING
693+18'B' - 708+64'B'	RT	30	1,490	--	--	1,490	TEMPORARY WIDENING
1002+87'JA' - 1004+74'JA'	LT & RT	--	620	--	--	620	JUG RAMP A TEMPORARY
DRIVEWAYS	LT & RT	400	215	--	--	215	PROJECT
STAGE 3 SUBTOTALS		2,315	32,275	4,050	40,775	32,275	
STAGE 4							
625+50 - 637+75	LT & RT	310	8,940	--	9,692	8,940	STH 73
637+75 - 655+10	LT & RT	535	10,710	--	11,305	10,710	STH 73
628+50'B' - 652+00'B'	LT & RT	205	4,330	--	7,960	4,330	USH 12/18
652+00'B' - 664+00'B'	LT & RT	95	630	--	--	630	USH 12/18
664+00'B' - 678+00'B'	LT & RT	150	1,020	--	--	1,020	USH 12/18
678+00'B' - 702+00'B'	LT & RT	220	3,060	--	4,195	3,060	USH 12/18
2000+30'JB' - 2002+55'JB'	LT & RT	--	1,670	--	1,915	1,670	JUG RAMP B
2000+30'JB' - 2002+96'JB'	LT & RT	--	880	--	--	880	JUG RAMP B TEMPORARY
DRIVEWAYS	LT & RT	90	55	--	--	55	PROJECT
STAGE 4 SUBTOTALS		1,605	31,295	--	35,067	31,295	
STAGE 5							
621+97'B' - 650+13'B'	RT	58	--	--	--	--	USH 12/18
693+18'B' - 708+64'B'	RT	32	--	--	--	--	USH 12/18
STAGE 5 SUBTOTALS		90	--	--	--	--	
TOTALS		5,300	94,200	4,050	101,642	94,200	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONCRETE SURFACE DRAINS

STATION - STATION	LOCATION	416.1010 CY	COMMENTS
CAT 1000			
STAGE 3			
662+92'B' - 663+07'B'	RT	2	USH 12/18
STAGE 3 SUBTOTAL		2	
STAGE 4			
662+34'B' - 662+56'B'	LT	3	USH 12/18
STAGE 4 SUBTOTAL		3	
TOTAL		5	

ASPHALTIC FLUMES

STATION	LOCATION	465.0315 SY	COMMENTS
CAT 1000			
STAGE 3			
608+48	RT	12	STH 73
680+34'B'	LT	12	USH 12/18
1001+10'JA'	LT	12	JUG RAMP A
1002+54'JA'	RT	12	JUG RAMP A
1003+09'JA'	LT	12	JUG RAMP A
2001+48'JB'	RT	10	JUG RAMP B
2002+61'JB'	LT	10	JUG RAMP B
2009+28'JB'	RT	12	JUG RAMP B
2009+74'JB'	LT	12	JUG RAMP B
9+96'NU'	LT	12	NULAND RD
10+16'NU'	RT	12	NULAND RD
STAGE 3 SUBTOTAL		128	
STAGE 4			
626+06	RT	10	STH 73
628+22	LT	10	STH 73
638+46	RT	12	STH 73
649+51'B'	LT	12	USH 12/18
301+15'SH'	RT	12	SHAUL LN
STAGE 4 SUBTOTAL		56	
TOTAL		184	

CONCRETE PAVEMENT ITEMS

STATION - STATION	LOCATION	405.0100 COLORING CONCRETE RED CY	415.0070 CONCRETE PAVEMENT 7-INCH SY	415.0090 CONCRETE PAVEMENT 9-INCH SY	415.0210 CONCRETE PAVEMENT GAPS EACH	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	415.6000.S ROUT AND SEAL LF	416.0620 DRILLED DOWEL BARS EACH	416.1110 CONCRETE SHOULDER RUMBLE STRIPS LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	SPV.0105.001 CONCRETE PAVEMENT JOINT LAYOUT LS	COMMENTS
CAT 1000												
STAGE 3												
609+97-613+38	RT	--	--	--	--	--	--	--	--	1,394	--	STH 73 MEDIAN
628+50'B'	RT	--	--	--	--	--	--	14	--	--	--	USH 12/18
628+50'B' - 652+00'B'	LT & RT	--	--	7,160	--	--	--	--	--	--	--	USH 12/18
628+50'B' - 662+40'B'	RT	--	--	--	--	--	3,310	--	--	--	--	USH 12/18
652+00'B' - 662+40'B'	LT & RT	--	--	6,830	--	--	--	--	--	--	--	USH 12/18
637+80'B' - 638+00'B'	RT	--	--	--	1	--	--	--	--	--	--	USH 12/18
646+00'B' - 646+40'B'	RT	--	--	--	1	--	--	--	--	--	--	USH 12/18
662+40'B' - 662+92'B'	RT	--	42	--	--	--	--	--	--	--	--	USH 12/18
662+40'B' - 663+00'B'	LT & RT	--	--	--	--	200	--	--	--	--	--	USH 12/18
664+95'B' - 665+55'B'	LT & RT	--	--	--	--	200	--	--	--	--	--	USH 12/18
664+95'B' - 665+55'B'	LT	--	49	--	--	--	--	--	--	--	--	USH 12/18
665+40'B' - 665+55'B'	RT	--	9	--	--	--	--	--	--	--	--	USH 12/18
665+55'B' - 678+00'B'	LT & RT	--	--	8,050	--	--	--	--	--	--	--	USH 12/18
655+55'B' - 702+00'B'	RT	--	--	--	--	--	3,225	--	--	--	--	USH 12/18
678+00'B' - 702+00'B'	LT & RT	--	--	10,630	--	--	--	--	--	--	--	USH 12/18
702+00'B'	RT	--	--	--	--	--	--	14	--	--	--	USH 12/18
1002+60'JA' - 1004+74'JA'	LT & RT	--	--	1,850	--	--	--	--	--	--	--	JUG RAMP A
10+02'NU' - 10+62'NU'	LT & RT	--	--	325	--	--	--	--	--	--	--	NULAND RD
STAGE 3 SUBTOTALS		--	100	34,845	2	400	6,535	28	--	1,394	--	
STAGE 4												
633+73-637+08	LT	--	--	--	--	--	--	--	--	1,340	--	STH 73 MEDIAN
634+65-636+85	RT	--	--	--	--	--	--	--	--	440	--	STH 73 MEDIAN
638+10-639+73	LT	--	--	--	--	--	--	--	--	326	--	STH 73 MEDIAN
638+30-640+15	RT	--	--	--	--	--	--	--	--	740	--	STH 73
628+50'B'	LT	--	--	--	--	--	--	14	--	--	--	USH 12/18
628+50'B' - 652+00'B'	LT & RT	--	--	7,730	--	--	--	--	--	--	--	USH 12/18
628+50'B' - 633+98'B'	LT	--	--	--	--	--	--	--	548	--	--	USH 12/18
628+50'B' - 662+40'B'	LT	--	--	--	--	--	3,070	--	--	--	--	USH 12/18
637+80'B' - 638+00'B'	LT	--	--	--	1	--	--	--	--	--	--	USH 12/18
661+23'B' - 662+15'B'	LT	--	--	--	--	--	--	--	92	--	--	USH 12/18
665+80'B' - 702+00'B'	LT	--	--	--	--	--	--	--	3,620	--	--	USH 12/18
655+55'B' - 702+00'B'	LT	--	--	--	--	--	3,645	--	--	--	--	USH 12/18
678+00'B' - 702+00'B'	LT & RT	--	--	3,780	--	--	--	--	--	--	--	USH 12/18
702+00'B'	LT	--	--	--	--	--	--	14	--	--	--	USH 12/18
2000+29'JB' - 2002+55'JB'	LT & RT	--	--	1,775	--	--	--	--	--	--	--	JUG RAMP B
STAGE 4 SUBTOTALS		--	--	13,285	1	--	6,715	28	4,260	2,846	--	
STAGE 5												
628+50'B' - 642+93'B'	RT	--	--	--	--	--	--	--	1,410	--	--	USH 12/18
647+03'B' - 662+15'B'	RT	--	--	--	--	--	--	--	1,500	--	--	USH 12/18
665+80'B' - 668+18'B'	RT	--	--	--	--	--	--	--	215	--	--	USH 12/18
695+88'B' - 702+00'B'	RT	--	--	--	--	--	--	--	615	--	--	USH 12/18
1003+15'JA' - 1004+74'JA'	LT	95	--	370	--	--	--	--	--	--	--	JUG RAMP A
STAGE 5 SUBTOTALS		95	--	370	--	--	--	--	3,740	--	--	
PROJECT	--	--	--	--	--	--	--	--	--	--	1	USH 12/18
TOTALS		95	100	48,500	3	400	13,250	56	8,000	4,240	1	

ASPHALTIC ITEMS

STATION - STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	455.0120 ASPHALTIC MATERIAL PG64-28 TON	455.0605 TACK COAT GAL	460.1100 HMA PAVEMENT TYPE E-0.3 TON	460.1103 HMA PAVEMENT TYPE E-3 TON	**460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF	460.4000 HMA COLD WEATHER PAVING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL (TYPE I) LF	465.0475 ASPHALTIC CENTER LINE RUMBLE STRIPS 2-LANE RURAL LF	COMMENTS
CAT 0010												
STAGE 1												
619+69'BE' - 620+57'BE'	LT	1	--	--	--	13	--	--	--	--	--	TEMPORARY WIDENING
619+65'BE' - 658+17'BE'	RT	30	--	--	--	540	--	--	--	--	--	TEMPORARY WIDENING
668+47'BE' - 681+72'BE'	RT	5	--	--	--	90	--	--	--	--	--	TEMPORARY WIDENING
688+35'BE' - 710+50'BE'	RT	16	--	--	--	290	--	--	--	--	--	TEMPORARY WIDENING
STAGE 1 SUBTOTALS		52	--	--	--	933	--	--	--	--	--	
STAGE 2												
621+64'BE' - 659+49'BE'	LT	73	--	--	--	1,320	--	--	--	--	--	TEMPORARY WIDENING
664+11'BE' - 668+82'BE'	LT	2	--	--	--	35	--	--	--	--	--	TEMPORARY WIDENING
688+57'BE' - 708+60'BE'	LT	52	--	--	--	945	--	--	--	--	--	TEMPORARY WIDENING
STAGE 2 SUBTOTALS		127	--	--	--	2,300	--	--	--	--	--	
STAGE 3												
584+25 - 598+00	LT & RT	53	--	--	--	960	1,375	--	--	--	--	STH 73, LOWER LAYER
584+25 - 598+00	LT & RT	--	34	265	--	625	1,375	--	--	2,680	1,375	STH 73, UPPER LAYER
598+00 - 609+50	LT & RT	65	--	--	--	1,180	836	--	--	--	--	STH 73, LOWER LAYER
598+00 - 609+50	LT & RT	--	42	325	--	755	836	--	--	1,680	50	STH 73, UPPER LAYER
609+50 - 625+00	LT & RT	90	--	--	--	1,633	987	--	--	--	--	STH 73, LOWER LAYER
609+50 - 625+00	LT & RT	--	57	450	--	1,045	987	--	--	2,760	--	STH 73, UPPER LAYER
622+50	LT	--	--	--	--	--	--	--	52	--	--	STH 73 DRIVEWAY
621+98'B' - 628+50'B'	RT	11	--	37	--	195	--	--	--	--	--	USH 12/18 SHOULDER WIDENING
628+50'B' - 643+23'B'	RT	25	--	80	--	451	--	--	--	--	--	USH 12/18 FINAL SHOULDER AND WIDENING
646+90'B' - 652+00'B'	RT	6	--	18	--	106	--	--	--	--	--	USH 12/18 FINAL SHOULDER AND WIDENING
652+00'B' - 662+40'B'	RT	10	--	31	--	188	--	--	--	--	--	USH 12/18 SHOULDER
665+55'B' - 676+06'B'	RT	8	--	25	--	156	--	--	--	--	--	USH 12/18 SHOULDER
680+28'B' - 702+00'B'	RT	31	--	96	--	553	--	--	--	--	--	USH 12/18 FINAL SHOULDER AND WIDENING
680+96'B' - 683+76'B'	LT	--	--	--	--	--	--	--	100	--	--	USH 12/18 DRIVEWAY
702+00'B' - 710+32'B'	RT	11	--	38	--	200	--	--	--	--	--	USH 12/18 SHOULDER WIDENING
1000+44'JA' - 1003+15'JA'	LT & RT	17	--	--	--	315	--	--	--	--	--	JUG RAMP A, LOWER LAYER
1000+44'JA' - 1003+15'JA'	LT & RT	--	11	86	--	200	--	--	--	--	--	JUG RAMP A, UPPER LAYER
1002+87'JA' - 1004+74'JA'	LT & RT	20	--	--	--	355	--	--	--	--	--	JUG RAMP A TEMPORARY
2001+43 'JB' - 2009+94 'JB'	LT & RT	43	--	--	--	780	--	--	--	--	--	JUG RAMP B, LOWER LAYER
300+89'SH' - 315+00'SH'	LT & RT	53	--	243	964	--	2,420	--	--	--	--	SHAUL LN
314+06'SH'	RT	--	--	--	--	--	--	--	11	--	--	SHAUL LN DRIVEWAY
321+16'SH' - 329+43'SH'	LT & RT	24	--	115	460	--	--	--	--	--	--	SHAUL LN
6+50'NU' - 10+02'NU'	LT & RT	8	--	38	152	--	704	--	--	--	--	NULAND RD
6+75'FD' - 7+96'FD'	LT & RT	10	--	43	169	--	--	--	--	--	--	FADNESS RD
STAGE 3 SUBTOTALS		485	144	1,890	1,745	9,697	9,520	--	163	7,120	1,425	

**REHEATING HMA PAVEMENT LONGITUDINAL JOINTS SHALL BE COMPLETED ALONG THE CENTERLINE OF ALL ROADWAYS AND ALONG THE MEDIAN SIDE OF THE TRAVEL LANE JOINT THROUGH AN INTERSECTION

CONTINUED ON NEXT SHEET

3

ASPHALTIC ITEMS (CONT.)

STATION - STATION	LOCATION	455.0105 ASPHALTIC MATERIAL PG58-28 TON	455.0120 ASPHALTIC MATERIAL PG64-28 TON	455.0605 TACK COAT GAL	460.1100 HMA PAVEMENT TYPE E-0.3 TON	460.1103 HMA PAVEMENT TYPE E-3 TON	**460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF	460.4000 HMA COLD WEATHER PAVING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0425 ASPHALTIC SHOULDER RUMBLE STRIPS 2-LANE RURAL (TYPE I) LF	465.0475 ASPHALTIC CENTER LINE RUMBLE STRIPS 2-LANE RURAL LF	COMMENTS
STAGE 4												
625+00 - 637+75	LT & RT	88	--	--	--	1,600	780	--	--	--	--	STH 73, LOWER LAYER
625+00 - 637+75	LT & RT	--	56	440	--	1,016	780	--	--	1,820	--	STH 73, UPPER LAYER
637+75 - 655+10	LT & RT	105	--	--	--	1,874	775	--	--	--	--	STH 73, LOWER LAYER
637+75 - 655+10	LT & RT	--	63	515	--	1,200	775	--	--	2,590	--	STH 73, UPPER LAYER
628+50 'B' - 649+57 'B'	LT	14	--	--	--	240	--	--	--	--	--	USH 12/18 SHOULDER
637+78'B'	LT	--	--	--	--	--	--	--	27	--	--	USH 12/18 DRIVEWAY
653+35'B' - 662+40'B'	LT	6	--	--	--	108	--	--	--	--	--	USH 12/18 SHOULDER
665+55'B' - 678+00'B'	LT	9	--	--	--	156	--	--	--	--	--	USH 12/18 SHOULDER
678+00'B' - 702+00'B'	LT	15	--	--	--	276	--	--	--	--	--	USH 12/18 SHOULDER
2000+30'JB' - 2002+96'JB'	LT & RT	14	--	--	--	250	--	--	--	--	--	JUG RAMP B TEMPORARY
UNDISTRIBUTED	--	--	--	--	--	--	--	1,680	--	--	--	
STAGE 4 SUBTOTALS		251	119	955	--	6,720	3,110	1,680	27	4,410	--	
STAGE 5												
2001+43 'JB' - 2009+94 'JB'	LT & RT	--	27	215	--	500	--	--	--	--	--	JUG RAMP B, UPPER LAYER
UNDISTRIBUTED	--	--	--	--	--	--	--	125	--	--	--	
STAGE 5 SUBTOTALS		--	27	215	--	500	--	125	--	--	--	
PROJECT	--	--	--	--	--	--	--	--	--	--	--	
TOTALS		915	290	3,060	1,745	20,150	12,630	1,805	190	11,530	1,425	

**REHEATING HMA PAVEMENT LONGITUDINAL JOINTS SHALL BE COMPLETED ALONG THE CENTERLINE OF ALL ROADWAYS AND ALONG THE MEDIAN SIDE OF THE TRAVEL LANE JOINT THROUGH AN INTERSECTION

CULVERT PIPE TEMPORARY ITEMS

STATION	LOCATION	520.4024 CULVERT PIPE TEMPORARY 24-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH	SPV.0105.005 TEPMPORARY CULVERT PIPE CONNECTION LS	COMMENTS
CAT 1000					
STAGE 2					
689+75'BE'	LT	50	--	--	DRIVEWAY
STAGE 2 SUBTOTALS		50	--	--	
STAGE 3					
644+93'B'	RT	--	--	1	
681+01'B'	RT	8	2	--	
687+63'B'	RT	8	2	--	
STAGE 3 SUBTOTALS		16	4	1	
TOTALS		66	4	1	

CULVERT PIPE CROSS DRAIN ITEMS

	INLET			OUTLET			504.0900 CONCRETE MASONRY ENDWALLS	* 522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	522.1030 30-INCH	522.1036 36-INCH	522.1042 42-INCH	523.0538 HORIZONTAL ELLIPTICAL 38X60-INCH	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH	522.0130 CLASS III 30-INCH	522.0136 CLASS III 36-INCH	522.0142 CLASS III 42-INCH	522.0148 CLASS III 48-INCH	523.0138 HORIZONTAL ELLIPTICAL CLASS HE-III 38X60-INCH	* 633.5200 MARKERS CULVERT END	
STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION	CY	EACH	EACH	EACH	EACH	EACH	LF	LF	LF	LF	LF	LF	EACH	COMMENTS
CAT 1000																			
STAGE 2																			
605+71.00	97.5' RT	852.45	605+71.00	86.5' LT	851.52	--	--	--	--	2	--	--	--	--	184	--	--	2	
644+76.97'B'	66.9' RT	866.74	644+95.90'B'	67.8' LT	866.55	--	--	--	--	--	2	--	--	--	--	--	136	2	(STAGE 2&4)
680+82.58'B'	82.2' LT	867.94	681+71.04'B'	106.0' RT	860.22	--	--	2	--	--	--	--	208	--	--	--	--	2	(STAGE 2&4)
687+59.87'B'	89.0' RT	858.10	687+75.68'B'	78.3' LT	856.18	--	2	--	--	--	--	168	--	--	--	--	--	2	(STAGE 2&4)
1001+20.67'JA'	94.2' LT	857.43	1001+12.00'JA'	97.6' RT	855.82	--	--	2	--	--	--	--	192	--	--	--	--	2	
2009+47.64'JB'	65.9' RT	862.11	2009+44.56'JB'	60.1' LT	860.58	--	--	2	--	--	--	--	126	--	--	--	--	2	
STAGE 2 SUBTOTALS						--	2	6	--	2	2	168	526	--	184	--	136	12	
STAGE 3																			
10+21.89'NU'	40.3' RT	867.09	10+22.58'NU'	45.7' LT	866.92	--	--	--	2	--	--	--	--	86	--	--	--	2	
STAGE 3 SUBTOTALS						--	--	--	2	--	--	--	--	86	--	--	--	2	
STAGE 4																			
642+75.65	92.3' LT	855.76	642+78.86	91.7' RT	854.13	9	--	--	--	--	--	--	--	--	--	184	--	2	
642+82.48	92.3' LT	855.76	642+85.69	91.7' RT	854.13	--	--	--	--	--	--	--	--	--	--	184	--	--	
301+00.09'SH'	51.4' RT	861.02	301+09.51'SH'	66.3' LT	858.80	--	--	2	--	--	--	--	118	--	--	--	--	2	
STAGE 4 SUBTOTALS						9	--	2	--	--	--	--	118	--	--	368	--	4	
TOTALS						9	2	8	2	2	2	168	644	86	184	368	136	18	

NOTE:
STATION, OFFSET AND ELEVATION INFORMATION PROVIDED IS TO THE END OF PIPE
* ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

CULVERT PIPE PRIVATE ENTRANCE ITEMS

	INLET			OUTLET			MINIMUM THICKNESS REQUIRED	521.0118 CULVERT PIPE CORRUGATED STEEL 18-INCH	521.0124 CULVERT PIPE CORRUGATED STEEL 24-INCH	521.0130 CULVERT PIPE CORRUGATED STEEL 30-INCH	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH	212.1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH	521.103 APRON ENDWALLS FOR CULVERT PIPE STEEL 30-INCH	521.1518 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1	521.1524 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1	
	STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION	INCHES	LF	LF	LF	EACH	EACH	EACH	EACH	EACH	COMMENTS
CAT 1000																
STAGE 2																
	599+73.54	47.3' RT	854.11	599+25.26	45.1' RT	853.70	0.064	50	--	--	2	--	--	--	--	DRIVEWAY
	597+15.91	36.2' LT	849.68	596+83.05	35.5' LT	849.52	0.064	32	--	--	--	--	--	2	--	DRIVEWAY
	637+55.25'B'	85.9' LT	875.57	638+03.87'B'	85.6' LT	874.98	0.064	--	--	50	--	--	2	--	--	DRIVEWAY
	637+55.67'B'	77.0' LT	875.57	638.04.44'B'	76.7' LT	874.98	0.064	--	--	50	--	--	2	--	--	DRIVEWAY
STAGE 2 SUBTOTALS								82	--	100	2	--	4	2	--	
STAGE 3																
	596+77.53	46.5' RT	850.54	596+25.44	48.9' RT	849.65	0.064	--	54	--	--	2	--	--	--	DRIVEWAY
	637+63.11'B'	56.3' RT	874.42	638+12.04'B'	55.1' RT	873.89	0.064	--	48	--	--	--	--	--	2	DRIVEWAY
	303+73.48'SH'	77.8' LT	858.80	303+01.09'SH'	91.67' LT	855.86	0.079	--	--	112	--	--	2	--	--	DRIVEWAY
	310+51.10'SH'	33.5' LT	882.61	310+15.15'SH'	35.5' LT	881.30	0.064	--	36	--	--	2	--	--	--	DRIVEWAY
	310+50.00'SH'	30.0' RT	883.52	310+16.00'SH'	30.0' RT	881.85	0.064	34	--	--	2	--	--	--	--	DRIVEWAY
STAGE 3 SUBTOTALS								34	138	112	2	4	2	--	2	
STAGE 4																
	689+47.17'B'	69.7' LT	855.17	690+37.87'B'	63.9' LT	854.71	0.064	88	--	--	2	--	--	--	--	DRIVEWAY
STAGE 4 SUBTOTALS								88	--	--	2	--	--	--	--	
TOTALS								204	138	212	6	4	6	2	2	

NOTE:
STATION, OFFSET AND ELEVATION INFORMATION PROVIDED IS TO THE END OF PIPE

CONCRETE CURB & GUTTER ITEMS

STATION - STATION	LOCATION	416.0610 DRILLED TIE BARS EACH	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0553 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0580 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R LF	COMMENTS
CAT 1000								
STAGE 3								
604+18 - 608+36	LT & RT	--	--	--	837	--	--	STH 73
608+54 - 609+14	RT	--	--	--	91	--	--	STH 73 - JUG RAMP A RADII
609+86 - 610+46	RT	--	--	--	91	--	--	STH 73 - JUG RAMP A RADII
609+97 - 621+73	LT & RT	--	--	--	2,353	--	--	STH 73
636+78 - 637+38	LT	--	--	--	91	--	--	STH 73 - JUG RAMP B RADII
638+10 - 638+70	LT	--	--	--	91	--	--	STH 73 - JUG RAMP B RADII
644+73'B' - 645+33'B'	RT	--	--	91	--	--	--	USH 12/18
645+63'B' - 646+03'B'	RT	--	--	60	--	--	--	USH 12/18
1000+75'JA' - 1002+87'JA'	LT & RT	--	--	--	398	--	--	JUG RAMP A
1002+60'JA' - 1002+87'JA'	RT	--	--	27	--	--	--	JUG RAMP A
1003+60'JA' - 1004+60'JA'	RT	--	--	311	--	--	--	USH 12/18 - JUG RAMP A RADII
1003+15'JA' - 1004+65'JA'	LT	--	--	233	--	--	--	USH 12/18 - JUG RAMP A RADII
2002+97'JB'- 2009+39'JB'	LT & RT	--	--	--	1,465	--	--	JUG RAMP B
STAGE 3 SUBTOTALS		--	--	722	5,417	--	--	
STAGE 4								
622+00 - 626+00	RT	--	--	--	--	398	--	STH 73
624+00 - 628+17	LT	--	--	--	--	417	--	STH 73
627+49 - 637+08	LT & RT	--	--	--	1,920	--	--	STH 73
634+65 - 636+85	RT	--	--	--	440	--	--	STH 73
636+80 - 637+40	RT	--	--	--	91	--	--	STH 73 - SHAUL LN RADII
638+00 - 638+40	RT	--	--	--	60	--	--	STH 73 - SHAUL LN RADII
638+10 - 639+73	LT	--	--	--	326	--	--	STH 73
638+30 - 649+55	LT & RT	--	--	--	2,251	--	--	STH 73
2000+33'JB' - 2001+42'JB'	RT	--	--	166	--	--	--	USH 12/18 - JUG RAMP B RADII
2000+55'JB' - 2002+55'JB'	LT	--	--	322	--	--	--	USH 12/18 - JUG RAMP B RADII
300+62'SH' - 302+83'SH'	LT & RT	--	--	--	443	--	--	SHAUL LN
313+95'SH'	RT	--	18	--	--	--	--	SHAUL LN
314+17'SH'	RT	--	18	--	--	--	--	SHAUL LN
STAGE 4 SUBTOTALS		--	36	488	5,531	815	--	
STAGE 5								
650+72'B' - 652+34'B'	LT	55	--	162	--	--	--	USH 12/18
677+18'B' - 677+58'B'	RT	14	--	--	--	--	40	USH 12/18
677+58'B' - 679+29'B'	RT	58	--	172	--	--	--	USH 12/18
1002+87'JA' - 1004+71'JA'	RT	80	--	236	--	--	--	JUG RAMP A
1002+87'JA' - 1003+15'JA'	LT	--	--	--	28	--	--	JUG RAMP A
1003+15'JA' - 1004+71'JA'	LT	61	--	--	--	--	180	JUG RAMP A
2000+30'JB' - 2001+42'JB'	RT	42	--	122	--	--	--	JUG RAMP B
2000+38'JB' - 2002+55'JB'	LT	90	--	268	--	--	--	JUG RAMP B
2001+42'JB' - 2002+97'JB'	RT	--	--	--	154	--	--	JUG RAMP B
STAGE 5 SUBTOTALS		400	--	960	182	--	220	
TOTALS		400	36	2,170	11,130	815	220	

CONCRETE BARRIER ITEMS

STATION - STATION	LOCATION	603.1136 CONCRETE BARRIER TYPE S36 LF	603.2136 CONCRETE BARRIER FIXED OBJECT PROTECTION TYPE S36 LF	633.0500 DELINEATOR REFLECTORS (YELLOW) EACH	633.1000 DELINEATOR BRACKETS EACH	COMMENTS
CAT 1000						
STAGE 3						
653+71'B' - 662+98'B'	LT & RT	928	--	20	10	USH 12/18
664+99'B' - 694+00'B'	LT & RT	2,901	--	60	30	USH 12/18
STAGE 3 SUBTOTALS		3,829	--	80	40	
STAGE 4						
623+87 - 626+20	LT & RT	--	233	8	6	STH 73
STAGE 4 SUBTOTALS		--	233	8	6	
STAGE 5						
648+50'B' - 653+71'B'	LT & RT	521	--	10	5	USH 12/18
STAGE 5 SUBTOTALS		521	--	10	5	
TOTALS		4,350	233	98	51	

CONCRETE BARRIER TEMPORARY PRECAST ITEMS

STATION - STATION	LOCATION	603.8000 DELIVERED LF	603.8125 INSTALLED LF
CAT 1000			
STAGE 2			
620+56'BE' - 637+11'BE'	LT	1,650	1,650
638+79'BE' - 659+73'BE'	LT	2,100	2,100
660+35'BE' - 666+45'BE'	RT	610	610
688+32'BE' - 710+41'BE'	LT	2,200	2,200
STAGE 2 SUBTOTALS		6,560	6,560
STAGE 3			
620+10'BE' - 636+90'BE'	LT & RT	590	1,680
638+90'BE' - 645+32'BE'	LT & RT	--	640
647+14'BE' - 681+42'BE'	RT	2,820	3,430
687+19'BE' - 710+32'BE'	LT & RT	1,010	2,310
693+51'BE' - 701+20'BE'	LT	760	760
STAGE 3 SUBTOTALS		5,180	8,820
STAGE 4			
621+25'B' - 636+90'B'	LT & RT	470	1,570
638+90'B' - 650+93'B'	LT & RT	790	1,200
693+19'B' - 699+18'B'	RT	610	610
694+00'B' - 710+32'B'	LT & RT	480	1,630
STAGE 4 SUBTOTALS		2,350	5,010
TOTALS		14,090	20,390

RIPRAP ITEMS

STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	*606.0300 RIPRAP HEAVY CY	*645.0120 GEOTEXTILE FABRIC TYPE HR SY
CAT 1000				
STAGE 2				
604+20	RT	6	--	21
605+71	LT	--	29	58
606+50	RT	13	--	41
611+50	RT	14	--	47
613+00	RT	14	--	47
615+00	RT	9	--	31
620+20 - 621+15	RT	59	--	155
STAGE 2 SUBTOTALS		115	29	400
STAGE 3				
596+15	RT	5	--	16
608+48	RT	35	--	93
657+00'B'	RT	5	--	18
663+00'B'	RT	2	--	6
670+95'B' - 673+48	RT	127	--	350
675+00'B'	RT	27	--	87
679+60'B'	RT	3	--	11
680+34'B'	RT	27	--	72
681+75'B'	RT	--	10	22
683+00'B'	RT	12	--	40
685+50'B'	RT	3	--	11
688+00'B'	RT	5	--	16
694+00'B'	RT	3	--	11
1000+95'JA'	RT	10	--	34
1001+10'JA'	LT	25	--	69
1002+54'JA'	RT	29	--	79
1003+09'JA'	LT	27	--	72
2009+28'JB'	RT	8	--	23
2009+74'JB'	LT	12	--	33
302+95'SH'	LT	7	--	21
310+05'SH'	LT	5	--	15
9+96'NU'	LT	13	--	36
10+16'NU'	RT	9	--	25
STAGE 3 SUBTOTALS		399	10	1,160
STAGE 4				
638+15	RT	5	--	15
638+46	RT	16	--	51
642+00	RT	6	--	20
642+82	RT	--	46	90
647+00	RT	4	--	13
649+09 - 650+09	RT	45	--	125
649+51'B'	LT	9	--	27
663+64'B' - 664+19'B'	LT	16	--	51
624+80'B'	LT	11	--	32
625+82'B'	LT	11	--	32
626+43'B' - 637+49	LT	865	--	2,125
638+15'B'	LT	11	--	30
644+96'B'	LT	22	--	56
661+77'B'	LT	2	--	6
2009+44'JB'	LT	7	--	20
301+11'SH'	LT	7	--	20
301+15'SH'	RT	9	--	27
STAGE 4 SUBTOTALS		1,046	46	2,740
TOTALS		1,560	85	4,300

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

STORM SEWER ITEMS

STATION - STATION	LOCATION	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 CLASS III 18-INCH LF	608.0324 CLASS III 24-INCH LF	608.0412 CLASS IV 12-INCH LF	608.0418 CLASS IV 18-INCH LF	611.0530 MANHOLE COVERS TYPE J EACH	611.0610 INLET COVERS TYPE BW EACH	611.0627 TYPE HM EACH	611.0654 TYPE V EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.3004 4-FT DIAMETER EACH	611.3220 INLETS 2X2-FT EACH	611.3225 2X2.5-FT EACH	611.3230 2X3-FT EACH	* 633.5200 MARKERS CULVERT END EACH	612.0212 PIPE UNDERDRAIN UNPERFORATED 12-INCH LF	COMMENTS
CAT 1000																		
STAGE 2																		
604+00 - 625+50	LT & RT	192	446	--	--	45	--	--	24	--	--	--	--	--	24	9	--	STH 73
1000+75'JA' - 1003+00'JA'	LT & RT	14	131	--	--	--	--	--	4	--	--	1	--	--	3	1	--	JUG RAMP A
2003+00'JB' - 2009+40'JB'	LT & RT	7	67	--	49	134	--	--	9	--	--	--	--	--	9	4	--	JUG RAMP B
STAGE 2 SUBTOTALS		213	644	--	49	179	--	--	37	--	--	1	--	--	36	14	--	
STAGE 3																		
649+00'B' - 694+00'B'	LT & RT	380	770	--	--	--	--	24	--	1	--	--	1	24	2	12	59	USH 12/18
300+60'SH' - 301+90'SH'	LT & RT	132	70	--	--	--	--	--	3	--	--	--	--	--	3	1	--	SHAUL LANE
STAGE 3 SUBTOTALS		512	840	--	--	--	--	24	3	1	--	--	1	24	5	13	59	
STAGE 4																		
622+00 - 647+00	LT & RT	154	621	398	41	259	1	2	24	--	1	7	--	2	17	11	--	STH 73
650+25'B' - 650+75'B'	LT & RT	--	69	--	--	--	--	--	--	--	--	--	--	--	1	1	--	USH 12/18
661+80'B' - 662+40'B'	LT & RT	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	83	USH 12/18
STAGE 4 SUBTOTALS		154	690	398	41	259	1	2	24	1	1	7	1	2	18	13	83	
STAGE 5																		
650+75'B'	LT	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	USH 12/18
679+27'B' - 679+30'B'	RT	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	USH 12/18
STAGE 5 SUBTOTALS		--	--	--	--	--	--	--	3	--	--	--	--	--	--	--	--	
TOTALS		879	2,174	398	90	438	1	26	67	2	1	8	2	26	59	40	142	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STORM SEWER APRON ENDWALL ITEMS

STATION - STATION	LOCATION	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH	522.1018 REINFORCED CONCRETE 18-INCH EACH	* 522.1024 REINFORCED CONCRETE 24-INCH EACH	COMMENTS
CAT 0010					
STAGE 2					
604+00 - 625+50	LT & RT	--	9	--	STH 73
1000+75'JA' - 1003+00'JA'	LT & RT	--	1	--	JUG RAMP A
2003+00'JB' - 2009+40'JB'	LT & RT	--	4	--	JUG RAMP B
STAGE 2 SUBTOTALS		--	14	--	
STAGE 3					
649+00'B' - 694+00'B'	LT & RT	1	12	--	USH 12/18
300+60'SH' - 301+90'SH'	LT & RT	--	1	--	SHAUL LANE
STAGE 3 SUBTOTALS		1	13	--	
STAGE 4					
622+00 - 647+00	LT & RT	--	8	2	STH 73
650+25'B' - 650+75'B'	LT & RT	--	1	--	USH 12/18
661+80'B' - 662+40'B'	LT & RT	1	--	--	USH 12/18
		1	9	2	
TOTALS		2	36	2	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STORM SEWER SCHEDULE

STRUCT NO.	STATION	(1) OFFSET	C-C (FT)	TO STRUCT	INLET TYPE / COVER	MH TYPE / COVER	(2) RIM/ GRATE ELEV.	(3) T.O.S. ELEV.	(4) DEPTH (FT)	DISCHARGE PIPE (5) CLASS	SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	(6) LENGTH (FT)	(7) SLOPE (%)	(8) REMARKS
1-10.1	604+20	3.6' LT	6.0	1-10.3	2x3-FT / HM	--	866.45	865.61	2.87	III	12	862.74	862.70	4	1.00	
1-10.2	604+30	3.5' RT	10.0	1-10.3	2x3-FT / HM	--	866.89	866.05	3.28	III	12	862.77	862.70	7	1.00	
1-10.3	604+20	2.4' RT	55.8	1-10.4	2x3-FT / HM	--	866.67	865.83	3.63	III	18	862.20	861.65	55	1.00	
1-10.4	604+20	58.2' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
2-15.1	606+50	7.4' LT	14.9	2-15.2	2x3-FT / HM	--	871.17	870.33	3.53	III	12	866.80	866.67	13	1.00	
2-15.2	606+50	7.4' RT	56.3	2-15.3	2x3-FT / HM	--	871.17	870.33	4.16	III	18	866.17	865.62	55	1.00	
2-15.3	606+50	63.8' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
2-20.1	609+99	2.5' RT	7.0	2-20.2	2x3-FT / HM	--	877.33	876.49	3.49	III	12	873.00	872.95	5	1.00	
2-20.2	609+99	9.5' RT	81.0	2-20.3	2x3-FT / HM	--	877.21	876.37	3.92	III	18	872.45	871.66	79	1.00	
2-20.3	1000+78 'JA'	6.5' LT	7.0	2-20.4	4-FT DIAMETER / HM	--	876.36	875.52	3.86	III	18	871.66	871.61	4	1.25	
2-20.4	1000+78 'JA'	0.5' RT	61.6	2-20.5	2x3-FT / HM	--	876.28	875.44	3.83	III	18	871.61	871.00	61	1.00	
2-20.5	1000+95.13 'JA'	59.7' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
2-25.1	611+70	2.5' RT	10.0	2-25.2	2x3-FT / HM	--	879.51	878.67	4.28	III	12	874.39	874.32	7	1.00	
2-25.2	611+60	2.5' RT	10.0	2-25.3	2x3-FT / HM	--	879.40	878.56	4.24	III	12	874.32	874.25	7	1.00	
2-25.3	611+50	2.5' RT	7.0	2-25.4	2x3-FT / HM	--	879.28	878.44	4.19	III	12	874.25	874.20	5	1.00	
2-25.4	611+50	9.5' RT	49.8	2-25.5	2x3-FT / HM	--	879.06	878.22	4.52	III	18	873.70	873.21	49	1.00	
2-25.5	611+50	59.3' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
3-30.1	613+10	2.5' RT	10.0	3-30.2	2x3-FT / HM	--	880.90	880.06	4.35	III	12	875.71	875.64	7	1.00	
3-30.2	613+00	2.5' RT	7.0	3-30.3	2x3-FT / HM	--	880.82	879.98	4.34	III	12	875.64	875.54	5	2.00	
3-30.3	613+00	9.5' RT	49.7	3-30.4	2x3-FT / HM	--	880.42	879.58	4.54	III	18	875.04	874.06	49	2.00	
3-30.4	613+00	59.2' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
3-35.1	615+00	9.0' LT	16.9	3-35.2	2x3-FT / HM	--	882.99	882.15	5.40	III	12	876.75	876.30	15	3.00	
3-35.2	615+00	7.9' RT	49.3	3-35.3	2x3-FT / HM	--	881.80	880.96	5.16	III	18	875.80	874.82	49	2.00	
3-35.3	615+00	57.2' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
3-40.1	617+00	7.5' LT	15.0	3-40.2	2x3-FT / HM	--	883.76	882.92	4.67	III	12	878.25	877.86	13	3.00	
3-40.2	617+00	7.5' RT	50.4	3-40.3	2x3-FT / HM	--	882.68	881.84	4.48	III	18	877.36	876.37	49.5	2.00	
3-40.3	617+00	57.9' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
4-45.1	620+00	7.5' LT	15.0	4-45.2	2x3-FT / HM	--	883.79	882.95	4.28	III	12	878.67	878.54	13	1.00	
4-45.2	620+00	7.5' RT	45.1	4-45.3	2x3-FT / HM	--	882.71	881.87	3.83	IV	18	878.04	877.60	44	1.00	UNDERDRAIN CONNECTION - SEE DETAIL
4-45.3	620+00	52.7' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
4-50.1	621+60	7.5' LT	10.0	4-50.2	2x3-FT / HM	--	883.19	882.35	4.45	III	12	877.90	877.83	7	1.00	
4-50.2	621+70	7.5' LT	7.5	4-50.3	2x3-FT / HM	--	883.14	882.30	4.47	III	12	877.83	877.78	5	1.00	
4-50.3	621+70	0.0' LT	53.7	4-50.5	2x3-FT / HM	--	882.52	881.68	4.40	III	18	877.28	876.75	53	1.00	
4-50.4	621+25.3	7.6' RT	45.2	4-50.3	2x3-FT / HM	--	882.27	881.44	3.24	III	12	878.20	877.78	42	1.00	
4-50.5	621+70	53.7' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
4-52.1	622+00	55.7' RT	146.0	4-52.2	--	--	--	--	--	III	24	876.60	875.77	144	0.58	APRON ENDWALL AND MARKERS CULVERT END REQ'D
4-52.2	623+50	36.5' RT	48.8	4-52.3	4-FT DIAMETER / HM	--	879.51	878.67	3.00	III	24	875.67	875.53	45	0.31	
4-52.3	624+00	36.5' RT	50.0	5-52.4	4-FT DIAMETER / HM	--	879.39	878.55	3.12	III	24	875.43	875.29	46	0.30	
5-52.4	624+50	36.5' RT	100.0	5-52.5	4-FT DIAMETER / HM	--	879.30	878.46	3.27	III	24	875.19	874.90	96	0.30	
5-52.5	625+50	36.5' RT	52.9	5-52.6	4-FT DIAMETER / HM	--	878.66	877.82	3.02	III	24	874.80	874.64	51	0.31	UNDERDRAIN CONNECTION - SEE DETAIL
5-52.6	626+00	54.6' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
5-54.1	624+00	53.0' LT	142.8	5-54.4	--	--	--	--	--	IV	18	880.22	874.84	140	3.84	APRON ENDWALL AND MARKERS CULVERT END REQ'D
5-54.2	625+33.70	5.8' LT	5.7	5-54.3	2X2.5-FT / BW	--	879.98	878.73	3.05	IV	12	875.68	875.62	3	2.00	
5-54.3	625+39.40	5.8' LT	31.0	5-54.4	2X2.5-FT / BW	--	879.92	878.67	3.55	IV	18	875.12	874.84	28	1.00	
5-54.4	625+42	36.5' LT	275.7	5-54.5	4-FT DIAMETER / HM	--	879.93	879.10	4.36	III	18	874.74	873.10	274	0.60	
5-54.5	628+17	56.7' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
6-60.1	631+00	13.7' RT	28.2	6-60.2	2x3-FT / HM	--	874.33	873.49	2.16	IV	12	871.33	871.25	26	0.31	
6-60.2	631+00	14.5' LT	42.1	6-60.3	2x3-FT / HM	--	874.32	873.48	2.73	IV	18	870.75	870.62	42	0.31	
6-60.3	631+00	57.8' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
6-65.1	634+00	7.5' LT	7.0	6-65.2	2x3-FT / HM	--	872.05	871.21	2.55	IV	12	868.66	868.64	5	0.40	
6-65.2	634+00	14.5' LT	42.9	6-65.3	2x3-FT / HM	--	871.61	870.77	2.63	IV	18	868.14	868.01	42	0.31	
6-65.3	634+00	57.4' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D

CONTINUED ON NEXT SHEET

STORM SEWER SCHEDULE (CONT.)

STRUCT NO.	STATION	(1) OFFSET	C-C (FT)	TO STRUCT	INLET TYPE / COVER	MH TYPE / COVER	(2) RIM/ GRATE ELEV.	(3) T.O.S. ELEV.	(4) DEPTH (FT)	DISCHARGE PIPE (5) CLASS	SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	(6) LENGTH (FT)	(7) SLOPE (%)	(8) REMARKS
7-70.1	636+81	14.5' RT	5.0	7-70.3	2x3-FT / HM	--	869.23	868.39	2.83	III	12	865.56	865.53	3	1.00	
7-70.2	636+71	9.5' RT	10.0	7-70.3	2x3-FT / HM	--	869.38	868.54	2.94	III	12	865.60	865.53	7	1.00	
7-70.3	636+81	9.5' RT	20.5	7-70.6	2x3-FT / HM	--	869.31	868.47	3.44	III	18	865.03	864.85	18	1.00	
7-70.4	637+05	14.5' LT	7.0	7-70.5	2x3-FT / HM	--	869.01	868.17	2.66	III	12	865.51	865.46	5	1.00	
7-70.5	637+05	7.5' LT	24.3	7-70.6	2x3-FT / HM	--	869.14	868.30	2.84	III	12	865.46	865.25	21	1.00	
7-70.6	636+81	11.0' LT	72.5	7-70.7	--	4-FT / J	869.64	868.39	3.64	III	18	864.75	864.05	70	1.00	
7-70.7	636+81	83.5' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
7-75.1	639+70	9.5' LT	5.0	7-75.2	2x3-FT / HM	--	866.69	865.85	3.54	III	12	862.31	862.25	3	2.00	
7-75.2	639+70	14.5' LT	74.5	7-75.3	2x3-FT / HM	--	866.53	865.69	3.94	III	18	861.75	860.27	74	2.00	
7-75.3	639+70	89' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
8-80.1	642+50	10.7' LT	10.0	8-80.2	2x3-FT / HM	--	865.87	865.03	3.29	III	12	861.74	861.60	7	2.00	
8-80.2	642+40	9.9' LT	42.7	8-80.4	4-FT DIAMETER / HM	--	865.87	865.03	3.43	III	12	861.60	860.80	39	2.05	
8-80.3	641+95	14.5' RT	10.0	8-80.4	2x3-FT / HM	--	865.75	864.91	3.97	III	12	860.94	860.80	7	2.00	
8-80.4	642+05	14.5' RT	52.7	8-80.5	4-FT DIAMETER / HM	--	865.75	864.91	4.62	III	18	860.29	858.97	66	2.00	
8-80.5	642+05	81.6' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
8-85.1	644+50	12.0' RT	24.0	8-85.2	2x3-FT / HM	--	866.79	865.95	2.69	III	12	863.26	863.04	22	1.00	
8-85.2	644+50	12.0' LT	62.0	8-85.3	2x3-FT / HM	--	866.79	865.95	3.41	III	18	862.54	861.93	61	1.00	
8-85.3	644+50	74.0' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
8-90.1	647+00	7.8' LT	15.6	8-90.2	2x3-FT / HM	--	869.77	868.93	2.84	III	12	866.09	865.81	14	2.00	
8-90.2	647+00	7.8' RT	62.7	8-90.3	2x3-FT / HM	--	869.77	868.93	3.63	III	18	865.30	864.06	62	2.00	
8-90.3	647+00	70.5' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
9-100.1	649+40'B'	2.4' LT	10.0	9-100.2	2X2.5-FT / BW	--	879.67	878.42	3.03	III	12	875.39	875.31	8	1.00	
9-100.2	649+30'B'	2.4' LT	4.2	9-100.4	2X2.5-FT / BW	--	879.52	878.27	2.96	III	12	875.31	875.29	2	1.00	
9-100.3	649+40'B'	2.4' RT	10.0	9-100.4	2X2.5-FT / BW	--	879.67	878.42	3.05	III	12	875.37	875.29	8	1.00	UNDERDRAIN CONNECTION - SEE DETAIL
9-100.4	649+30'B'	2.4' RT	50.2	9-100.5	2X2.5-FT / BW	--	879.52	878.27	3.48	III	18	874.79	874.30	49	1.00	
9-100.5	649+30'B'	52.2' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
9-105.1	650+75'B'	30.5' LT	68.6	9-105.2	2x3-FT / HM	--	881.54	880.71	3.21	III	18	877.50	875.63	68	2.75	
9-105.2	650+28.69'B'	83.7' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
9-110.1	653+00'B'	2.4' LT	4.2	9-110.2	2X2.5-FT / BW	--	886.15	884.90	2.88	III	12	882.02	882.00	2	1.00	
9-110.2	653+00'B'	2.4' RT	49.0	9-110.3	2X2.5-FT / BW	--	886.15	884.90	3.40	III	18	881.50	881.25	49	0.51	UNDERDRAIN CONNECTION - SEE DETAIL
9-110.3	653+00'B'	52.2' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
10-115.1	657+00'B'	2.4' LT	4.2	10-115.2	2X2.5-FT / BW	--	893.83	892.58	3.40	III	12	889.18	889.14	2	2.00	
10-115.2	657+00'B'	2.4' RT	52.8	10-115.3	2X2.5-FT / BW	--	893.83	892.58	3.94	III	18	888.64	887.60	52	2.00	UNDERDRAIN CONNECTION - SEE DETAIL
10-115.3	657+00'B'	54.9' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
11-120.1	662+42'B'	30.4' LT	82.3	10-120.2	2X2-FT / V	--	901.18	899.93	5.76	III	12	894.17	893.67	84	--	
11-120.2	661+80'B'	83.3' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
11-125.1	663+00'B'	30.4' RT	58.3	11-125.2	2X2-FT / V	--	901.68	900.43	5.76	III	12	894.67	886.77	58	--	
11-125.2	663+00'B'	71.1' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
12-130.1	671+00'B'	2.4' LT	4.2	12-130.2	2X2.5-FT / BW	--	901.71	900.46	3.54	III	12	896.92	896.88	2	2.00	
12-130.2	671+00'B'	2.4' RT	70.2	12-130.3	2X2.5-FT / BW	--	901.71	900.46	4.08	III	18	896.38	895.00	69	2.00	UNDERDRAIN CONNECTION - SEE DETAIL
12-130.3	671+00'B'	72.3' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
13-135.1	675+00'B'	2.4' LT	4.2	13-135.2	2X2.5-FT / BW	--	896.09	894.84	3.43	III	12	891.41	891.37	2	2.00	
13-135.2	675+00'B'	2.4' RT	64.8	13-135.3	2X2.5-FT / BW	--	896.09	894.84	3.97	III	18	890.87	889.59	64	2.00	UNDERDRAIN CONNECTION - SEE DETAIL
13-135.3	675+00'B'	66.9' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D

CONTINUED ON NEXT SHEET

STORM SEWER SCHEDULE (CONT.)

STRUCT NO.	STATION	(1) OFFSET	C-C (FT)	TO STRUCT	INLET TYPE / COVER	MH TYPE / COVER	(2) RIM/ GRATE ELEV.	(3) T.O.S. ELEV.	(4) DEPTH (FT)	DISCHARGE PIPE (5) CLASS	SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	(6) LENGTH (FT)	(7) SLOPE (%)	(8) REMARKS
14-140.1	679+27'B'	2.4' LT	4.2	14-140.2	2X2.5-FT / BW	--	887.26	886.01	3.63	III	12	882.38	882.36	2	1.00	
14-140.2	679+27'B'	2.4' RT	28.4	14-140.3	2X2.5-FT / BW	--	887.26	886.01	4.15	III	18	881.86	881.60	26	1.00	UNDERDRAIN CONNECTION - SEE DETAIL
14-140.3	679+27'B'	30.5' RT	8.0	14-140.4	2x3-FT / HM	--	886.98	886.14	4.54	III	18	881.60	881.55	5	1.00	
14-140.4	679+29.37'B'	38.4' RT	55.8	14-140.5	2x3-FT / HM	--	886.54	885.71	4.16	III	18	881.55	881.00	55	1.00	
14-140.5	679+58.25'B'	84.9' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
14-145.1	682+90'B'	2.4' LT	10.0	14-145.2	2X2.5-FT / BW	--	879.64	878.39	3.47	III	12	874.92	874.76	8	2.00	
14-145.2	683+00'B'	2.4' LT	4.2	14-145.3	2X2.5-FT / BW	--	879.43	878.18	3.42	III	12	874.76	874.72	2	2.00	
14-145.3	683+00'B'	2.4' RT	73.2	14-145.4	2X2.5-FT / BW	--	879.46	878.21	3.99	III	18	874.22	872.78	72	2.00	UNDERDRAIN CONNECTION - SEE DETAIL
14-145.4	683+00'B'	75.3' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
15-150.1	685+50'B'	2.4' RT	83.0	15-150.2	2X2.5-FT / BW	--	874.24	872.99	3.97	III	18	869.02	867.38	82	2.00	
15-150.2	685+50'B'	85.1' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
15-155.1	688+00'B'	2.4' RT	77.0	15-155.2	2X2.5-FT / BW	--	868.99	867.74	3.82	III	18	863.92	862.40	76	2.00	
15-155.2	688+00'B'	79.1' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
15-160.1	690+00'B'	2.4' RT	74.1	15-160.2	2X2.5-FT / BW	--	864.80	863.55	3.78	III	18	859.77	859.40	73	0.51	
15-160.2	690+00'B'	76.2' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
16-165.1	692+00'B'	2.4' RT	180.1	16-165.2	2X2.5-FT / BW	--	860.61	859.36	3.32	III	12	856.04	852.48	178	2.00	
16-165.2	693+80'B'	2.4' RT	10.0	16-165.3	2X2.5-FT / BW	--	857.21	855.96	3.98	III	18	851.98	851.90	8	1.00	
16-165.3	693+90'B'	2.4' RT	10.0	16-165.4	2X2.5-FT / BW	--	857.06	855.81	3.91	III	18	851.90	851.82	8	1.00	
16-165.4	694+00'B'	2.4' RT	63.3	16-165.5	2X2.5-FT / BW	--	856.92	855.67	3.85	III	18	851.82	851.20	62	1.00	
16-165.5	694+00'B'	65.4' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
17-200.1	1003+00'JA'	7.0' RT	13.5	17-200.2	2x3-FT / HM	--	883.10	882.27	4.03	III	12	878.24	878.00	12	2.00	
17-200.2	1003+00'JA'	6.5' LT	62.5	17-200.3	2x3-FT / HM	--	882.67	881.83	4.33	III	18	877.50	876.26	62	2.00	
17-200.3	1003+00'JA'	69.0' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
18-300.1	2003+00'JB'	6.5' LT	13.0	18-300.2	2x3-FT / HM	--	878.06	877.22	2.16	IV	12	875.06	875.02	11	0.36	
18-300.2	2003+00'JB'	6.5' RT	40.5	18-300.3	2x3-FT / HM	--	878.06	877.22	2.70	IV	18	874.52	874.40	40	0.30	
18-300.3	2003+00'JB'	47.0' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
18-305.1	2005+50'JB'	6.5' LT	13.0	18-305.2	2x3-FT / HM	--	873.30	872.46	3.14	IV	12	869.32	869.21	11	1.00	
18-305.2	2005+50'JB'	6.5' RT	41.7	18-305.3	2x3-FT / HM	--	872.66	871.82	3.12	IV	18	868.70	868.30	41	0.98	
18-305.3	2005+50'JB'	48.2' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
18-310.1	2007+80'JB'	6.5' LT	10.0	18-310.2	2x3-FT / HM	--	869.11	868.27	2.69	IV	12	865.58	865.51	7	1.00	
18-310.2	2007+90'JB'	6.5' LT	13.0	18-310.3	2x3-FT / HM	--	868.96	868.12	2.61	IV	12	865.51	865.40	11	1.00	
18-310.3	2007+90'JB'	6.5' RT	51.6	18-310.4	2x3-FT / HM	--	868.75	867.91	3.01	IV	18	864.90	864.39	51	1.00	
18-310.4	2007+90'JB'	58.2' RT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
19-315.1	2009+36'JB'	6.5' RT	7.1	19-315.2	2x3-FT / HM	--	867.70	866.86	3.67	III	12	863.19	863.09	5	2.00	
19-315.2	2009+36'JB'	0.6' LT	67.3	19-315.3	2x3-FT / HM	--	867.82	866.98	4.39	III	18	862.59	861.27	66	2.00	
19-315.3	2009+24.64'JB'	66.9' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D
19-400.1	300+65'SH'	0.5' RT	7.1	19-400.3	2x3-FT / HM	--	868.28	867.44	3.91	III	12	863.53	863.48	5	1.00	
19-400.2	301+90'SH'	6.5' LT	125.0	19-400.3	2x3-FT / HM	--	869.59	868.75	4.05	III	12	864.70	863.48	122	1.00	
19-400.3	300+65'SH'	6.5' LT	70.1	19-400.4	2x3-FT / HM	--	868.16	867.32	4.34	III	18	862.98	862.30	68	1.00	
19-400.4	300+80'SH'	75.0' LT	--	--	--	--	--	--	--	--	--	--	--	--	--	APRON ENDWALL AND MARKERS CULVERT END REQ'D

(1) STRUCTURE OFFSET IS TO CENTER OF STRUCTURE
(2) RIM ELEVATION FOR MANHOLE IS TO CENTER OF CASTING. RIM ELEVATION FOR INLET TYPE HM AND V IN CURB AND GUTTER IS 1-INCH BELOW NORMAL CURB AND GUTTER FLOW LINE ELEVATION. RIM ELEVATION FOR INLET TYPE BW IS AT THE FLOW LINE.
(3) TOP OF STRUCTURE ELEVATION (TOS) DETERMINED BY SUBTRACTING CASTING HEIGHT AND 6-INCHES, FOR ADJUSTMENT, FROM RIM ELEVATION. A TYPE J MH CASTING HEIGHT IS 9 INCHES IN HEIGHT A TYPE BW AND TYPE V INLET CASTING IS 9 INCHES IN HEIGHT AND A TYPE HM INLET CASTING IS 4 INCHES IN HEIGHT.
(4) DEPTH OF STRUCTURE MEASURED BY SUBTRACTING DISCHARGE ELEVATION FROM T.O.S.
(5) CLASS IV PIPE USED WHEN HEIGHT OF COVER IS 0 - 2 FEET FROM THE BOTTOM OF THE BASE AGGREGATE DENSE LAYER
(6) PIPE LENGTH IS MEASURED FROM INSIDE WALL OF STRUCTURE TO INSIDE WALL OF STRUCTURE OR END OF APRON ENDWALL, USED FOR SLOPE CALCULATION ONLY
(7) PIPE SLOPE IS CALCULATED USING PIPE LENGTH BETWEEN INSIDE WALL OF STRUCTURE TO INSIDE WALL OF STRUCTURE OR END OF APRON ENDWALL
(8) STATION AND OFFSET IS TO END OF APRON ENDWALL

PIPE UNDERDRAIN ITEMS

STATION - STATION	LOCATION	310.0110 BASE AGGREGATE OPEN GRADED TON	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0206 PIPE UNDERDRAIN UNPERFORATED 6-INCH LF	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH EACH	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY	646.0805.S PAVEMENT MARKING OUTFALL EACH	COMMENTS
CAT 1000								
STAGE 2								
625+49'BE'	LT	--	--	7	--	--	--	TEMPORARY EXTENSION
630+49'BE'	LT	--	--	10	--	--	--	TEMPORARY EXTENSION
687+25'BE'	LT	--	--	13	--	--	--	TEMPORARY EXTENSION
697+26'BE'	LT	--	--	13	--	--	--	TEMPORARY EXTENSION
701+51'BE'	LT	--	--	15	--	--	--	TEMPORARY EXTENSION
703+90'BE'	LT	--	--	8	--	--	--	TEMPORARY EXTENSION
STAGE 2 SUBTOTALS		--	--	66	--	--	--	
STAGE 3								
622+87'BE'	RT	--	--	3	--	--	--	TEMPORARY EXTENSION
625+48'BE'	RT	--	--	7	--	--	--	TEMPORARY EXTENSION
649+40'B' - 652+95'BE'	CL	19	354	--	--	180	--	
653+00'B' - 656+95'BE'	CL	20	394	--	--	200	--	
657+00'B' - 661+75'BE'	CL	25	474	--	--	238	--	
667+25'B' - 671+'BE'	CL	20	374	--	--	187	--	
671+06'B' - 675+00'BE'	CL	21	394	--	--	198	--	
675+04'B' - 679+28'BE'	CL	23	423	--	--	212	--	
679+32'B' - 683+00'BE'	CL	20	367	--	--	185	--	
704+05'BE'	RT	--	--	3	--	--	--	TEMPORARY EXTENSION
STAGE 3 SUBTOTALS		148	2,780	13	--	1,400	--	
STAGE 4								
622+00 - 623+50	RT	8	150	--	--	200	--	
625+55 - 626+17	RT	4	75	--	1	--	1	
625+49'BE'	LT	--	--	--	1	--	1	
628+55'BE'	LT	--	--	17	1	--	1	
701+95'BE'	LT	--	--	16	1	--	1	
704+06'BE'	LT	--	--	--	1	--	1	
STAGE 4 SUBTOTALS		12	225	33	5	200	5	
STAGE 5								
628+55'BE'	RT	--	--	17	1	--	1	
701+95'BE'	RT	--	--	16	1	--	1	
STAGE 5 SUBTOTALS		--	--	33	2	--	2	
TOTALS		160	3,005	145	7	1,600	7	

CRASH CUSHIONS PERMANENT LOW MAINTENANCE

STATION	LOCATION	614.0805 EACH	BACK WIDTH REQUIREMENT FT	OBJECT MARKING PATTERN	CRASH TEST CONDITION	TRAFFIC DIRECTION	COMMENTS
CAT 1000							
STAGE 3							
694+00'B'	LT & RT	1	2	OM-3R	TL-3	BIDIRECTIONAL	USH 12/18, SHIELDS PERMANENT MEDIAN BARRIER
STAGE 3 SUBTOTAL		1					
STAGE 4							
623+87	LT & RT	1	2	OM-3R	TL-3	BIDIRECTIONAL	STH 73, SHIELDS PERMANENT MEDIAN BARRIER
626+20	LT & RT	1	2	OM-3R	TL-3	BIDIRECTIONAL	STH 73, SHIELDS PERMANENT MEDIAN BARRIER
STAGE 4 SUBTOTAL		2					
STAGE 5							
648+50'B'	LT & RT	1	2	OM-3R	TL-3	BIDIRECTIONAL	USH 12/18, SHIELDS PERMANENT MEDIAN BARRIER
STAGE 5 SUBTOTAL		1					
TOTAL		4					

CRASH CUSHIONS TEMPORARY

STATION	LOCATION	614.0905 EACH	BACK WIDTH REQUIREMENT FT	CRASH TEST CONDITION	OBJECT MARKING PATTERN	TRAFFIC DIRECTION
CAT 1000						
STAGE 2						
619+89'BE'	LT	1	2	TL-3	OM-3L	BIDIRECTIONAL
637+40'BE'	LT	1	2	TL-3	OM-3R	BIDIRECTIONAL
638+50'BE'	LT	1	2	TL-3	OM-3L	BIDIRECTIONAL
659+72'BE'	LT	1	2	TL-3	OM-3R	BIDIRECTIONAL
660+35'BE'	RT	1	2	TL-3	OM-3R	BIDIRECTIONAL
666+45'BE'	RT	1	2	TL-3	OM-3L	BIDIRECTIONAL
688+32'BE'	LT	1	2	TL-3	OM-3L	BIDIRECTIONAL
710+41'BE'	LT	1	2	TL-3	OM-3R	BIDIRECTIONAL
STAGE 2 SUBTOTAL		8				
STAGE 3						
620+10'BE'	RT	1	2	TL-3	OM-3R	BIDIRECTIONAL
637+40'BE'	LT	1	2	TL-3	OM-3L	BIDIRECTIONAL
638+40'BE'	LT	1	2	TL-3	OM-3R	BIDIRECTIONAL
645+32'BE'	RT	1	2	TL-3	OM-3L	BIDIRECTIONAL
647+14'BE'	RT	1	2	TL-3	OM-3R	BIDIRECTIONAL
681+42'BE'	RT	1	2	TL-3	OM-3L	BIDIRECTIONAL
687+19'BE'	RT	1	2	TL-3	OM-3R	BIDIRECTIONAL
710+32'BE'	RT	1	2	TL-3	OM-3L	BIDIRECTIONAL
STAGE 3 SUBTOTAL		8				
STAGE 4						
620+26'B'	LT	1	2	TL-3	OM-3L	BIDIRECTIONAL
637+40'B'	RT	1	2	TL-3	OM-3R	BIDIRECTIONAL
638+40'B'	RT	1	2	TL-3	OM-3L	BIDIRECTIONAL
650+93'B'	LT	1	2	TL-3	OM-3R	BIDIRECTIONAL
653+71'B'	RT	1	2	TL-3	OM-3L	BIDIRECTIONAL
693+19'B'	RT	1	2	TL-3	OM-3R	BIDIRECTIONAL
694+00'B'	RT	1	2	TL-3	OM-3L	BIDIRECTIONAL
699+18'B'	RT	1	2	TL-3	OM-3L	BIDIRECTIONAL
710+32'B'	LT	1	2	TL-3	OM-3R	BIDIRECTIONAL
STAGE 4 SUBTOTAL		9				
TOTAL		25				

GUARDRAIL ITEMS

STATION - STATION	LOCATION	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EACH	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2620 MGS GUARDRAIL TERMINAL TYPE 2 EACH	COMMENTS
CAT 1000								
STAGE 3								
660+54'B' - 663+09'B'	RT	--	--	162.5	40	1	--	USH 12/18
665+45'B' - 666+50'B'	RT	--	--	12.5	40	1	--	USH 12/18
STAGE 3 SUBTOTALS		--	--	175.0	80	2	--	
STAGE 4								
653+26 - 655+10	RT	137.5	1	--	--	--	--	STH 73
661+62'B' - 662+51'B'	LT	--	--	50.0	40	--	1	USH 12/18
664+86'B' - 667+17'B'	LT	--	--	137.5	40	1	--	USH 12/18
STAGE 4 SUBTOTALS		137.5	1	187.5	80	1	1	
TOTALS		137.5	1	362.5	160	3	1	

FENCE SAFETY

STATION - STATION	LOCATION	616.0700.S LF
CAT 1000		
STAGE 1		
669+50'B' - 672+50'B'	LT	300
320+50'SH' - 322+50'SH'	RT	200
STAGE 1 SUBTOTAL		500
UNDISTRIBUTED	--	500
TOTAL		1,000

MAINTENANCE AND REPAIR OF HAUL ROADS (3070-00-73)

LOCATION	618.0100 EACH
CAT 1000	
PROJECT	1
TOTAL	1

CONCRETE CORRUGATED MEDIAN

STATION - STATION	LOCATION	620.0100 SF	COMMENTS
CAT 1000			
STAGE 4			
634+15 - 634+65	RT	400	STH 73
636+85 - 637+35	RT	400	STH 73
639+73 - 640+23	LT	400	STH 73
STAGE 4 SUBTOTAL		1,200	
TOTAL		1,200	

NOTE: CONCRETE CORRUGATED MEDIAN IS A UNIFORM WIDTH OF 8'

CONCRETE MEDIAN SLOPED NOSE

STATION - STATION	LOCATION	620.0300 SF	SLOPED NOSE TYPE	COMMENTS
CAT 1000				
STAGE 3				
604+11 - 604+18	LT & RT	56	TYPE 1	STH 73
608+36 - 608+43	RT	57	TYPE 1	STH 73
609+90 - 609+97	RT	70	TYPE 1	STH 73
621+73 - 621+80	LT & RT	57	TYPE 1	STH 73
1000+68'JA' - 1000+75'JA'	LT & RT	56	TYPE 1	JUG RAMP A
2009+39'JB' - 2009+46'JB'	LT & RT	56	TYPE 1	JUG RAMP B
STAGE 3 SUBTOTAL		352		
STAGE 4				
627+42 - 627+49	LT	57	TYPE 1	STH 73
637+08 - 637+15	LT	70	TYPE 1	STH 73
638+03 - 638+10	LT	56	TYPE 1	STH 73
638+23 - 638+30	RT	70	TYPE 1	STH 73
649+55 - 649+62	LT & RT	56	TYPE 1	STH 73
300+55'SH' - 300+62'SH'	LT & RT	56	TYPE 1	SHAUL LN
302+83'SH' - 302+90'SH'	LT & RT	69	TYPE 1	SHAUL LN
STAGE 4 SUBTOTAL		434		
STAGE 5				
650+65'B' - 650+71'B'	LT	64	TYPE 1	USH 12/18
652+34'B' - 652+41'B'	LT	62	TYPE 1	USH 12/18
677+11'B' - 677+18'B'	RT	60	TYPE 1	USH 12/18
677+29'B' - 677+36'B'	RT	61	TYPE 1	USH 12/18
STAGE 5 SUBTOTAL		247		
TOTAL		1,033		

WATER

LOCATION	624.0100 MGAL
CAT 1000	
PROJECT	1,750
TOTAL	1,750

WATER PROVIDED FOR COMPACTION OF SUBGRADE, BASE AGGREGATE COMPACTION, AND DUST CONTROL

RESTORATION ITEMS

STATION - STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2002 EROSION MAT CLASS I TYPE A SY	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0205 FERTILIZER TYPE A CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	COMMENTS
STAGE 2												
621+50'B' - 660+00'B'	LT	10,315	--	8,520	1,795	--	--	--	--	280	--	USH 12/18
688+00'B' - 710+50'B'	LT	5,793	--	4,380	1,413	--	--	--	--	160	--	USH 12/18
STAGE 2 SUBTOTAL		16,108	--	12,900	3,208	--	--	--	--	440	--	
STAGE 3												
622+00'B' - 645+50'B'	RT	9,632	--	7,711	1,922	--	0.4	17	--	245	--	USH 12/18
645+50'B' - 664+00'B'	RT	9,981	--	8,620	1,362	--	6.3	270	--	--	--	USH 12/18
664+00'B' - 678+00'B'	RT	2,054	--	2,054	--	--	1.3	56	--	--	--	USH 12/18
678+00'B' - 709+00'B'	RT	14,326	--	13,275	1,052	--	5.7	242	--	145	--	USH 12/18
584+00 - 625+00	LT & RT	77,212	40,577	28,277	3,904	4,454	48.7	2,085	--	--	--	STH 73
625+00 - 655+00	LT & RT	9,785	--	8,295	1,490	--	6.2	265	--	--	--	STH 73
1000+44'JA' - 1003+15'JA'	LT & RT	2,646	--	2,490	156	--	1.7	72	--	--	--	JUG RAMP A
2001+43'JB' - 2009+94'JB'	LT & RT	42,580	31,642	8,840	2,088	--	27.0	1,150	--	--	--	JUG RAMP B
300+89'SH' - 315+00'SH'	LT & RT	16,822	4,690	9,903	2,229	--	10.6	455	--	--	--	SHAUL LN
321+16'SH' - 329+43'SH'	LT & RT	3,765	--	2,792	969	--	2.4	102	--	--	--	SHAUL LN
6+75'FD' - 7+96'FD'	LT & RT	1,122	1,122	--	--	--	0.8	31	--	--	--	FADNESS RD
6+50'NU' - 10+02'NU'	LT & RT	1,801	1,102	--	699	--	1.2	49	--	--	--	NULAND RD
STAGE 3 SUBTOTAL		191,726	79,133	92,257	15,871	4,454	112.3	4,794	--	390	--	
STAGE 4												
622+00'B' - 652+00'B'	LT	11,892	--	10,072	1,001	819	7.5	300	15	--	--	USH 12/18
652+00'B' - 664+00'B'	LT	7,434	5,932	1,503	--	--	4.7	200	--	--	--	USH 12/18
664'B+00'B' - 709+00'B'	LT	31,471	28,815	389	--	2,267	20.0	790	41	--	--	USH 12/18
625+00 - 655+00	LT & RT	25,771	--	23,286	2,485	--	16.3	696	--	--	--	STH 73
STAGE 4 SUBTOTAL		76,568	34,747	35,250	3,486	3,086	48.5	1,986	56	--	--	
STAGE 5A												
688+00'B' - 710+50'B'	RT	2,993	--	2,993	--	--	1.9	81	--	--	--	USH 12/18
1000+75'JA' - 1004+71'JA'	LR & RT	1,253	--	1,253	--	--	0.8	34	--	--	--	JUG RAMP A
STAGE 5A SUBTOTAL		4,246	--	4,246	--	--	2.7	115	--	--	--	
STAGE 5B												
622+00'B' - 643+00'B'	RT	6,276	--	6,276	--	--	4.0	170	--	--	--	USH 12/18
702'+00'B' - 710+50'B'	RT	1,925	--	1,925	--	--	1.3	52	--	--	--	USH 12/18
2000+32'JB' - 2009+40'JB'	LT & RT	1,776	--	1,776	--	--	1.2	48	--	--	--	JUG RAMP B
STAGE 5B SUBTOTAL		9,977	--	9,977	--	--	6.5	270	--	--	--	
PROJECT	--	--	--	--	--	--	--	--	--	--	150	
UNDISTRIBUTED		74,875	28,520	38,670	5,735	1,960	50.0	1,835	24	220	50	
TOTALS		373,500	142,400	193,300	28,300	9,500	220.0	9,000	80	1,050	200	

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EROSION CONTROL ITEMS

STATION - STATION	LOCATION	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7560.S STONE OR ROCK DITCH CHECKS CY	*628.7570 ROCK BAGS EACH	645.0140 GEOTEXTILE FABRIC TYPE SAS SY	COMMENTS
CAT 0010													
STAGE 1													
629'B'+00 - 698'B'+50	RT	--	5,150	5,150	--	--	--	--	--	--	140	--	USH 12/18
STAGE 1 SUBTOTAL		--	5,150	5,150	--	--	--	--	--	--	140	--	
STAGE 2													
621'B'+50 - 660'B'+00	LT	--	970	970	--	--	--	385	--	334	28	1,640	USH 12/18
688'B'+00 - 710'B'+50	LT	360	1,340	1,340	--	--	--	175	--	--	84	--	USH 12/18
597+00 - 622+00	LT	480	2,550	2,550	24	24	--	--	--	--	84	--	STH 73
650+00 - 655+50	LT	--	485	485	--	--	--	--	4	--	--	--	STH 73
STAGE 2 SUBTOTAL		840	5,345	5,345	24	24	--	560	4	334	196	1,640	
STAGE 3													
622'B'+00 - 645'B'+50	RT	--	1,410	1,410	--	--	--	400	8	334	42	1,640	USH 12/18
645'B'+50 - 664'B'+00	RT	--	--	--	10	9	--	160	--	--	--	--	USH 12/18
664'B'+00 - 678'B'+00	RT	--	--	--	4	4	--	--	--	--	--	--	USH 12/18
678'B'+00 - 709'B'+00	RT	--	475	475	14	12	--	210	4	--	--	--	USH 12/18
584+00 - 625+00	LT & RT	928	2,970	2,970	--	--	--	350	24	--	196	--	STH 73
625+00 - 655+00	LT & RT	--	485	485	--	--	--	195	28	--	--	--	STH 73
1000'JA'+44 - 1003'JA'+15	LT & RT	--	--	--	4	4	--	175	7	--	--	--	JUG RAMP A
2001'JB'+43 - 2009'JB'+94	LT & RT	--	--	--	9	9	--	50	7	--	--	--	JUG RAMP B
300'SH'+89 - 315'SH'+00	LT & RT	--	1,220	1,220	3	3	--	190	21	--	28	--	SHAUL LN
321'SH'+16 - 329'SH'+43	LT & RT	--	1,500	1,500	--	--	--	130	--	--	70	--	SHAUL LN
6'FD'+75 - 7'FD'+96	LT & RT	--	105	105	--	--	--	--	--	--	14	--	FADNESS RD
6'NU'+50 - 10'NU'+02	LT & RT	--	--	--	--	--	--	30	11	--	--	--	NULAND RD
STAGE 3 SUBTOTAL		928	8,165	8,165	44	41	--	1,890	110	334	350	1,640	
STAGE 4													
622'B'+00 - 652'B'+00	LT	--	900	900	--	--	--	95	14	--	28	--	USH 12/18
652'B'+00 - 664'B'+00	LT	--	--	--	1	1	--	--	--	--	--	--	USH 12/18
664'B'+00 - 709'B'+00	LT	336	1,590	1,590	--	--	--	510	10	--	98	--	USH 12/18
625+00 - 655+00	LT & RT	--	1,450	1,450	26	22	4	290	--	--	84	--	STH 73
STAGE 4 SUBTOTAL		336	3,940	3,940	27	23	4	895	24	--	210	--	
STAGE 5													
650+75'B'		--	--	--	--	1	--	--	--	--	--	--	USH 12/18
679+27'B' - 679+30'B'		--	--	--	--	2	--	--	--	--	--	--	USH 12/18
STAGE 5 SUBTOTAL		--	--	--	--	3	--	--	--	--	--	--	
UNDISTRIBUTED	--	526	5,650	5,650	22	21	1	855	37	167	224	820	
TOTALS		2,630	28,250	28,250	117	112	5	4,200	175	835	1,120	4,100	

*ROCK BAGS ARE FOR SILT FENCE RELIEF

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MOBILIZATIONS EROSION CONTROL

LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
CAT 1000		
STAGE 1	1	1
STAGE 2	4	2
STAGE 3	3	2
STAGE 4	2	1
STAGE 5	1	1
TOTALS	11	7

SOIL STABILIZER TYPE B

STATION - STATION	LOCATION	628.6510 ACRE
CAT 1000		
STAGE 4		
625+00 - 655+00	LT & RT	6.3
622+00'B' - 652+00'B'	LT	2.6
652+00'B' - 664+00'B'	LT	1.8
664'B+00'B' - 709+00'B'	LT	6.3
STAGE 4 SUBTOTALS		17.0
STAGE 5		
688+00'B' - 710+50'B'	RT	0.8
622+00'B' - 643+00'B'	RT	1.80
1000+75'JA' - 1004+71'JA'	LT & RT	0.20
2000+32'JB' - 2002+80'JB'	LT & RT	0.20
STAGE 5 SUBTOTALS		3.0
TOTAL		20.0

TRACKING PADS

STATION	628.7560 EACH	COMMENTS
CAT 1000		
STAGE 2		
662+50	1	STH 73
633+50	1	STH 73
STAGE 2 SUBTOTAL	2	
TOTAL	2	

3

TEMPORARY BYPASS CHANNEL ITEMS

STATION	LOCATION	209.0300.S BACKFILL COARSE AGGREGATE SIZE NO. 2 CY	628.5505 POLYETHYLENE SHEETING SY	SPV.0105.002 TEMPORARY SANDBAG DIKE (B-13-802) LS	SPV.0105.003 TEMPORARY SANDBAG DIKE (B-13-358) LS	SPV.0105.004 TEMPORARY SANDBAG DIKE (C-13-105) LS
CAT 1000						
588+20	LT & RT	20	760	1	--	--
592+02	LT & RT	20	640	--	1	--
596+30'B'	LT & RT	10	110	--	--	1
TOTALS		50	1,510	1	1	1

MARKERS ROW

R/W POINT	STATION	OFFSET	633.5100 EACH
CAT 1000			
107	685+05.24'B'	142.70' LT	1
IP 153	687+05.62'B'	128.25' LT	1
108	689+18.91'B'	103.33' LT	1
109	694+00.00'B'	85.00' LT	1
113	6+75.17'FD'	43.09' RT	1
114	6+75.17'FD'	32.63' LT	1
130	4+99.63'FD'	32.63' RT	1
131	4+99.68'FD'	33.37' LT	1
116	6+75.17'FD'	33.37' LT	1
117	6+75.17'FD'	73.37' LT	1
118	8+62.47'FD'	73.38' LT	1
119	697+66.26'B'	106.48' RT	1
120	695+00.00'B'	110.00' RT	1
121	687+40.08'B'	147.78' RT	1
IP 152	687+46.61'B'	173.44' RT	1
IP 151	687+44.32'B'	174.12' RT	1
122	599+51.12	230.69' RT	1
123	597+79.45	123.51' RT	1
124	595+63.26	62.70' RT	1
125	595+60.59	79.36' RT	1
126	592+50.00	60.00' RT	1
127	592+50.00	75.00' RT	1
201	591+50.00	59.98' LT	1
202	591+50.00	70.00' LT	1
203	594+58.17	65.00' LT	1
204	603+00.00	65.00' LT	1
205	605+47.08	119.36' LT	1
206	605+47.83	131.00' LT	1
207	605+94.20	131.00' LT	1
208	606+00.00	120.00' LT	1
209	608+00.00	120.00' LT	1
213	605+50.00	150.00' RT	1
214	602+00.00	80.00' RT	1
215	599+69.00	70.00' RT	1
216	599+68.51	107.37' RT	1
IP 250	600+92.44	203.39' LT	1
218	685+10.00'B'	153.92' RT	1
301	712+51.07'B'	66.71' RT	1
IP 350	709+16.55'B'	55.62' RT	1
303	705+16.55'B'	87.13' RT	1
IP 351	700+16.54'B'	64.17' RT	1
305	8+41.12'FD'	77.62' RT	1
306	6+75.17'FD'	77.63' RT	1
307	6+75.17'FD'	43.09' RT	1
IP 353	700+15.64'B'	66.12' LT	1
311	704+21.42'B'	124.63' LT	1
312	705+70.51'B'	141.11' LT	1
313	709+70.29'B'	165.17' LT	1
314	711+70.40'B'	175.21' LT	1
315	711+77.63'B'	109.61' LT	1
SUBTOTAL			50

MARKERS ROW (CONT.)

R/W POINT	STATION	OFFSET	633.5100 EACH
CAT 1000			
316	709+84.06'B'	71.40' LT	1
317	712+33.08'B'	88.44' LT	1
401	613+00.00	163.00' LT	1
402	616+00.00	165.00' LT	1
403	618+00.00	145.00' LT	1
404	620+00.00	100.00' LT	1
405	622+00.52	75.62' LT	1
406	622+19.52	99.88' LT	1
IP 470	622+20.02	209.19' LT	1
IP 471	622+77.03	210.28' LT	1
408	622+80.89	100.87' LT	1
409	623+00.00	75.00' LT	1
410	624+15.14	80.29' LT	1
IP 472	667+01.71'B'	122.10' LT	1
IP 473	670+01.71'B'	137.78' LT	1
418	675+01.71'B'	149.66' LT	1
IP 474	678+01.55'B'	176.47' LT	1
419	328+70.53'SH'	46.60' RT	1
420	327+38.60'SH'	39.50' RT	1
421	326+37.48'SH'	42.11' RT	1
422	325+36.33'SH'	41.20' RT	1
IP 475	322+76.38'SH'	31.63' RT	1
423	318+09.52'SH'	33.03' RT	1
424	318+03.93'SH'	33.07' RT	1
428	318+01.58'SH'	32.92' RT	1
IP 429	318+03.32'SH'	32.92' RT	1
IP 430	318+08.75'SH'	32.97' RT	1
431	321+14.93'SH'	131.79' LT	1
432	321+55.93'SH'	101.15' LT	1
433	321+77.36'SH'	34.50' LT	1
434	322+74.47'SH'	34.34' LT	1
435	325+37.85'SH'	24.79' LT	1
436	326+36.92'SH'	23.89' LT	1
437	327+35.78'SH'	26.45' LT	1
438	328+00.00'SH'	42.88' LT	1
439	328+42.96'SH'	109.14' LT	1
440	329+33.55'SH'	122.88' LT	1
444	330+26.53'SH'	87.19' LT	1
445	330+26.49'SH'	86.25' LT	1
446	330+28.27'SH'	86.52' LT	1
447	683+63.70'B'	166.11' LT	1
452	679+20.00'B'	135.00' RT	1
453	679+24.11'B'	353.00' RT	1
506	657+50.00'B'	115.00' RT	1
507	647+19.00'B'	82.40' RT	1
511	2003+04.89'JB'	237.69' LT	1
513	2004+33.75'JB'	115.00' LT	1
602	304+70.15'SH'	105.00' LT	1
603	307+50.00'SH'	110.00' LT	1
604	308+50.00'SH'	70.00' LT	1
SUBTOTAL			50

MARKERS ROW (CONT.)

R/W POINT	STATION	OFFSET	633.5100 EACH
CAT 1000			
605	312+00.00'SH'	69.73' LT	1
606	313+50.00'SH'	42.73' LT	1
607	314+76.20'SH'	31.66' LT	1
IP 651	314+77.12'SH'	34.33' RT	1
IP 652	313+06.55'SH'	81.33' RT	1
608	311+77.86'SH'	65.00' RT	1
609	308+50.00'SH'	65.00' RT	1
610	307+75.00'SH'	100.00' RT	1
611	306+75.00'SH'	100.00' RT	1
612	304+50.00'SH'	69.06' RT	1
613	303+06.62'SH'	71.49' RT	1
614	301+20.00'SH'	88.00' RT	1
IP 653	634+19.07	151.35' RT	1
IP 654	632+06.42	110.56' RT	1
IP 655	630+10.89	182.01' RT	1
618	628+93.04	120.00' RT	1
619	627+25.00	120.00' RT	1
620	627+00.00	109.99' RT	1
IP 656	664+25.49'B'	137.70' RT	1
624	300+96.39'SH'	9.08' LT	1
703	8+75.00'NU'	36.45' LT	1
704	9+75.00'NU'	60.83' LT	1
705	644+50.00'B'	95.00' RT	1
706	640+00.00'B'	80.00' RT	1
707	638+00.00'B'	75.00' RT	1
708	634+64.48'B'	82.41' RT	1
IP 751	629+99.76'B'	59.39' RT	1
713	630+99.82'B'	71.59' LT	1
IP 752	634+64.55'B'	95.22' LT	1
714	636+99.89'B'	97.98' LT	1
715	640+00.00'B'	95.00' LT	1
722	646+54.97'B'	137.00' RT	1
724	640+62.83'B'	94.00' LT	1
726	649+05.03'B'	285.42' LT	1
727	649+45.18'B'	292.35' LT	1
803	2004+33.75'JB'	115.00' LT	1
804	2004+44.95'JB'	115.00' LT	1
805	2006+98.93'JB'	115.00' LT	1
806	2008+62.73'JB'	135.00' LT	1
807	643+00.00	120.00' LT	1
808	650+00.00	105.00' LT	1
809	653+00.00	75.00' LT	1
810	655+37.88	70.12' LT	1
813	655+37.86	59.88' RT	1
814	652+50.00	59.83' RT	1
815	652+50.00	70.00' RT	1
816	646+00.00	105.00' RT	1
817	644+00.00	105.00' RT	1
818	644+00.00	120.01' RT	1
819	643+15.30	124.10' RT	1
SUBTOTAL			50

MARKERS ROW (CONT.)

R/W POINT	STATION	OFFSET	633.5100 EACH
CAT 1000			
820	643+15.34	139.12' RT	1
821	642+50.00	142.29' RT	1
822	642+50.00	127.27' RT	1
823	301+45.04'SH'	121.23' LT	1
824	302+54.45'SH'	105.00' LT	1
906	615+99.82'B'	73.29' LT	1
IP 952	626+99.76'B'	86.15' RT	1
IP 953	622+99.75'B'	64.69' RT	1
IP 954	615+99.75'B'	48.50' RT	1
IP 957	620+99.82'B'	69.05' LT	1
IP 958	623+99.82'B'	78.31' LT	1
IP 959	626+99.82'B'	89.23' LT	1
SUBTOTAL			12
TOTAL			162

SIGNS AND SIGN SUPPORTS

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
01-01	W14-1	30 X 30	DEAD END	--	--	6.25	--	--	1	--	--	--	--	--	
R1-01	--	-- X --	NO PASSING ZONE	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
01-03	W6-1	36 X 36	DIVIDED HIGHWAY AHEAD SYMBOL	--	--	9.00	--	--	1	--	--	--	--	--	
R1-02	--	-- X --	NO PASSING ZONE	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R2-01	--	-- X --	JUNCTION ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
02-01	W14-3	48 X 36	NO PASSING ZONE	--	--	6.00	--	--	1	--	--	--	--	--	
R2-02	--	-- X --	ROUTE TURN ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R2-03	--	-- X --	STOP AHEAD	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
02-03	J1-2	48 X 39	JUNCTION ASSEMBLY (2 PANEL)	13.00	--	--	--	--	1	--	--	--	--	--	
	M2-1	24 X 15	JUNCTION MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M2-1	24 X 15	JUNCTION MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
R2-04	--	-- X --	DESTINATION/DISTANCE: Edgerton 14	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R2-05	--	-- X --	ROUTE TURN ASSEMBLY (4 PANEL)	--	--	--	--	--	--	--	--	--	1	3	REMOVE ONLY
R2-06	--	-- X --	SPEED LIMIT 55 MPH	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R2-07	--	-- X --	DESTINATION/ARROW: Deerfield, Madison, Cambridge	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R2-08	--	-- X --	REASSURANCE ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
02-05	W6-3	36 X 36	TWO-WAY TRAFFIC SYMBOL	--	--	9.00	--	--	1	--	--	--	--	--	
02-06	D2-1	72 X 15	DESTINATION/DISTANCE: Edgerton 14	7.50	--	--	--	1	1	--	--	--	--	--	
02-07	J2-4	96 X 57	ROUTE TURN ASSEMBLY (4 PANEL)	38.00	--	--	--	--	1	1	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1A	24 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1A	24 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
	M3-1	24 X 12	NORTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1A	24 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB6-1A	24 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
02-07A	J2-2	48 X 57	ROUTE TURN ASSEMBLY (2 PANEL)	19.00	--	--	--	--	--	1	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
02-08	R2-1	24 X 30	SPEED LIMIT 55 MPH	5.00	--	--	--	1	--	--	--	--	--	--	
02-10	D1-3	78 X 36	DESTINATION/ARROW: Deerfield, Madison, Cambridge	19.50	--	--	--	--	2	--	--	--	--	--	
02-11	R4-7	36 X 48	KEEP RIGHT	12.00	--	--	--	--	1	--	--	--	--	--	MOUNT ABOVE 02-12
02-12	W5-54	18 X 18	CLEARANCE MARKER	--	--	2.25	--	--	--	--	--	--	--	--	MOUNT BELOW 02-11
02-13	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	1	--	--	--	--	--	MOUNT ON BACK OF 02-14
02-14	W6-2	36 X 36	DIVIDED HIGHWAY ENDS	--	--	9.00	--	--	--	--	--	--	--	--	MOUNT ON BACK OF 02-13
02-15	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	--	1	--	--	--	--	--	
SUBTOTALS				131.75	--	41.50	--	2	12	2	--	--	10	14	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

CONTINUED ON NEXT SHEET

SIGNS AND SIGN SUPPORTS (CONT.)

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
02-17	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	--	1	--	--	--	--	--	MOUNT ON BACK OF 02-18
02-18	J4-2	48 X 36	REASSURANCE ASSEMBLY (2 PANEL)	12.00	--	--	--	--	--	--	--	--	--	--	MOUNT ON BACK OF 02-17
	M3-3	24 X 12	SOUTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
03-01	R4-7	24 X 30	KEEP RIGHT	5.00	--	--	--	1	--	--	--	--	--	--	
03-02	J3-2	48 X 57	DIRECTIONAL ASSEMBLY (2 PANEL)	19.00	--	--	--	--	--	1	--	--	--	--	MOUNT ON BACK OF 03-03
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
03-03	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	--	--	--	--	--	--	MOUNT ON BACK OF 03-02
03-05	R4-7	24 X 30	KEEP RIGHT	5.00	--	--	--	1	--	--	--	--	--	--	
03-06	R6-2L	24 X 30	ONE WAY LEFT ARROW	5.00	--	--	--	--	1	--	--	--	--	--	
03-07	R4-7	24 X 30	KEEP RIGHT	5.00	--	--	--	1	--	--	--	--	--	--	
03-08	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	--	--	--	--	--	--	MOUNT ON BACK OF 03-09
03-09	J3-3	72 X 57	DIRECTIONAL ASSEMBLY (3 PANEL)	28.50	--	--	--	--	--	2	--	--	--	--	MOUNT ON BACK OF 03-08
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-LEFT	--	--	--	--	--	--	--	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-LEFT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB6-1	24 X 21	ARROW-LEFT	--	--	--	--	--	--	--	--	--	--	--	
03-11	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	--	1	--	--	--	--	--	
03-12	J4-3	72 X 36	REASSURANCE ASSEMBLY (3 PANEL)	18.00	--	--	--	--	--	2	--	--	--	--	
	M3-1	24 X 12	NORTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
03-15	R3-20L	24 X 36	BEGIN LEFT TURN LANE	6.00	--	--	--	--	1	--	--	--	--	--	
03-16	D1-2	78 X 30	DESTINATION/ARROW: Edgerton, Cambridge	16.25	--	--	--	--	2	--	--	--	--	--	
03-17	J2-3	72 X 57	ROUTE TURN ASSEMBLY (3 PANEL)	28.50	--	--	--	--	--	2	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1L	24 X 21	ADVANCE ARROW LEFT TURN	--	--	--	--	--	--	--	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1L	24 X 21	ADVANCE ARROW LEFT TURN	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB5-1L	24 X 21	ADVANCE ARROW LEFT TURN	--	--	--	--	--	--	--	--	--	--	--	
SUBTOTALS				183.75	--	--	--	3	6	7	--	--	--	--	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

CONTINUED ON NEXT SHEET

SIGNS AND SIGN SUPPORTS (CONT.)

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
03-18	R2-1	24 X 30	SPEED LIMIT 55 MPH	5.00	--	--	--	--	1	--	--	--	--	--	
03-19	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	1	--	--	--	--	--	--	
03-20	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	1	--	--	--	--	--	
03-21	R4-7	24 X 30	KEEP RIGHT	5.00	--	--	--	1	--	--	--	--	--	--	
03-24	W3-1	36 X 36	STOP AHEAD	--	--	9.00	--	--	1	--	--	--	--	--	
03-25	J2-4	96 X 57	ROUTE TURN ASSEMBLY (4 PANEL)	38.00	--	--	--	--	2	--	--	--	--	--	
	M3-3	24 X 12	SOUTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1L	24 X 21	ADVANCE ARROW LEFT TURN	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB5-1L	24 X 21	ADVANCE ARROW LEFT TURN	--	--	--	--	--	--	--	--	--	--	--	
	M3-1	24 X 12	NORTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
03-27	D1-2	66 X 30	DESTINATION/ARROW: Edgerton, Deerfield	13.75	--	--	--	1	1	--	--	--	--	--	MOUNT ON BACK OF 03-28
03-28	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	--	--	--	--	--	--	--	MOUNT ON BACK OF 03-27
03-29	R1-1	36 X 36	STOP	7.46	--	--	--	--	1	--	--	--	--	--	MOUNT ABOVE 03-30
03-30	W4-4P	24 X 12	CROSS TRAFFIC DOES NOT STOP	--	--	2.00	--	--	--	--	--	--	--	--	MOUNT BELOW 03-29
03-31	R1-1	36 X 36	STOP	7.46	--	--	--	--	--	1	--	--	--	--	MOUNT ABOVE 03-32 AND 03-32A
03-32	R6-3A	30 X 24	DIVIDED HIGHWAY	5.00	--	--	--	--	--	--	--	--	--	--	MOUNT BELOW 03-31
03-32A	W4-4P	24 X 12	CROSS TRAFFIC DOES NOT STOP	--	--	2.00	--	--	--	--	--	--	--	--	MOUNT BELOW 03-32 AND 03-32
03-33	J3-4	96 X 57	DIRECTIONAL ASSEMBLY (4 PANEL)	38.00	--	--	--	--	--	2	--	--	--	--	MOUNT ON BACK OF 03-34
	M3-3	24 X 12	SOUTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-LEFT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB6-1	24 X 21	ARROW-LEFT	--	--	--	--	--	--	--	--	--	--	--	
	M3-1	24 X 12	NORTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
03-34	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	--	--	--	--	--	--	MOUNT ON BACK OF 03-33
03-35	W1-1R	36 X 36	RIGHT TURN	--	--	9.00	--	--	--	1	--	--	--	--	MOUNT ABOVE 03-36
03-36	W13-1	24 X 24	ADVISORY SPEED 20 MPH	--	--	4.00	--	--	--	--	--	--	--	--	MOUNT BELOW 03-35
04-01	R4-7	24 X 30	KEEP RIGHT	5.00	--	--	--	1	--	--	--	--	--	--	
04-02	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	1	--	--	--	--	--	
04-03	J2-3	72 X 57	ROUTE TURN ASSEMBLY (3 PANEL)	28.50	--	--	--	--	1	1	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1L	24 X 21	ADVANCE ARROW LEFT TURN	--	--	--	--	--	--	--	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1L	24 X 21	ADVANCE ARROW LEFT TURN	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB5-1L	24 X 21	ADVANCE ARROW LEFT TURN	--	--	--	--	--	--	--	--	--	--	--	
SUBTOTALS				197.67	--	26.00	--	4	9	5	--	--	--	--	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

CONTINUED ON NEXT SHEET

SIGNS AND SIGN SUPPORTS (CONT.)

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
04-04	J2-2	48 X 57	ROUTE TURN ASSEMBLY (2 PANEL)	19.00	--	--	--	--	1	--	--	--	--	--	
	M3-1	24 X 12	NORTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STH 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1L	24 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB6-1A	24 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
R4-01	--	-- X --	REASSURANCE ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
04-05	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	--	1	--	--	--	--	--	
R4-02	--	-- X --	DEAD END	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R4-03	--	-- X --	DESTINATION/ARROW: Edgerton, Cambridge, Madison	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R4-04	--	-- X --	STOP	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
04-07	R3-20L	24 X 36	BEGIN LEFT TURN LANE	6.00	--	--	--	--	1	--	--	--	--	--	
R4-05	--	-- X --	SPEED LIMIT 55 MPH	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
04-08	D1-2	66 X 30	DESTINATION/ARROW: Deerfield, Madison	13.75	--	--	--	--	2	--	--	--	--	--	
R4-06	--	-- X --	DESTINATION/DISTANCE: Deerfield 2	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R4-07	--	-- X --	ROUTE TURN ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R4-08	--	-- X --	ROUTE TURN ASSEMBLY (1 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
04-10	R2-1	24 X 30	SPEED LIMIT 55 MPH	5.00	--	--	--	--	1	--	--	--	--	--	
04-11	W12-1D	24 X 24	DOUBLE DOWN ARROWS	--	--	4.00	1	--	--	--	--	--	--	--	
R4-09	--	-- X --	ADOPT-A-HIGHWAY	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
04-12	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	1	--	--	--	--	--	--	
04-13	J4-2	48 X 36	REASSURANCE ASSEMBLY (2 PANEL)	12.00	--	--	--	--	1	--	--	--	--	--	
	M3-3	24 X 12	SOUTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
04-15	W1-1L	36 X 36	LEFT CURVE	--	--	9.00	--	--	1	--	--	--	--	--	
04-16	W1-1L	36 X 36	LEFT CURVE	--	--	9.00	--	--	1	--	--	--	--	--	
04-17	W1-6	48 X 24	NIGHT ARROW (SINGLE)	--	--	8.00	--	1	--	--	--	--	--	--	
04-18	W1-6	48 X 24	NIGHT ARROW (SINGLE)	--	--	8.00	--	1	--	--	--	--	--	--	
05-01	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	1	--	--	--	--	--	
05-02	JV	24 X 117	VERTICAL ASSEMBLY (1 PANEL)	19.50	--	--	--	--	--	--	--	1	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-LEFT	--	--	--	--	--	--	--	--	--	--	--	
R5-01	--	-- X --	STOP AHEAD	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R5-02	--	-- X --	STOP AHEAD	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
05-03	R4-7	24 X 30	KEEP RIGHT	5.00	--	--	--	1	--	--	--	--	--	--	
05-04	R4-7	24 X 30	KEEP RIGHT	5.00	--	--	--	1	--	--	--	--	--	--	
05-05	R4-7	24 X 30	KEEP RIGHT	5.00	--	--	--	1	--	--	--	--	--	--	
05-06	R4-7	24 X 30	KEEP RIGHT	5.00	--	--	--	1	--	--	--	--	--	--	
05-07	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	--	--	--	--	--	--	MOUNT ON BACK OF 05-08
SUBTOTALS				130.75	--	38.00	1	7	10	--	--	1	11	13	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

CONTINUED ON NEXT SHEET

SIGNS AND SIGN SUPPORTS (CONT.)

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
05-08	J32-3	72 X 69	VERTICAL ASSEMBLY (3 PANEL)	34.50	--	--	--	--	--	1	1	--	--	--	MOUNT ON BACK OF 05-07
	--	-- X --	BLANK	--	--	--	--	--	--	--	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
	--	-- X --	BLANK	--	--	--	--	--	--	--	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
R5-03	--	-- X --	ROUTE TURN ASSEMBLY (3 PANEL)	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
05-10	J4-2	48 X 36	REASSURANCE ASSEMBLY (2 PANEL)	12.00	--	--	--	--	1	--	--	--	--	--	
05-10	M3-1	24 X 12	NORTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
05-12	W12-1D	24 X 24	DOUBLE DOWN ARROWS	--	--	4.00	1	--	--	--	--	--	--	--	
05-13	R2-1	24 X 30	SPEED LIMIT 55 MPH	5.00	--	--	--	--	1	--	--	--	--	--	
05-14	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	--	1	--	--	--	--	--	
05-15	R3-20L	24 X 36	BEGIN LEFT TURN LANE	6.00	--	--	--	--	1	--	--	--	--	--	
R5-04	--	-- X --	NO PASSING ZONE	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R5-05	--	-- X --	NO PASSING ZONE	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R5-06	--	-- X --	JUNCTION ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	--	REMOVE ONLY
05-16	D1-3	72 X 36	DESTINATION/ARROW: Edgerton, Cambridge, Madison	18.00	--	--	--	--	2	--	--	--	--	--	
05-18	J32-4	96 X 69	ROUTE TURN ASSEMBLY (4 PANEL)	46.00	--	--	--	--	--	1	1	--	--	--	
	--	-- X --	BLANK	--	--	--	--	--	--	--	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
	--	-- X --	BLANK	--	--	--	--	--	--	--	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
	--	-- X --	BLANK	--	--	--	--	--	--	--	--	--	--	--	
	M3-3	24 X 12	SOUTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STH 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB6-1	24 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
SUBTOTALS				130.25	--	4.00	1	--	6	2	2	--	4	4	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

CONTINUED ON NEXT SHEET

SIGNS AND SIGN SUPPORTS (CONT.)

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
05-19	J32-3	72 X 69	ROUTE TURN ASSEMBLY (3 PANEL)	34.50	--	--	--	--	--	1	1	--	--	--	
	--	-- X --	BLANK	--	--	--	--	--	--	--	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
	--	-- X --	BLANK	--	--	--	--	--	--	--	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
05-20	W6-2	36 X 36	DIVIDED HIGHWAY ENDS	9.00	--	--	--	--	--	1	--	--	--	--	MOUNT ON BACK OF 05-21
05-21	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	--	--	--	--	--	--	--	MOUNT ON BACK OF 05-20
05-22	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	1	--	--	--	--	--	
05-23	R4-7	36 X 48	KEEP RIGHT	12.00	--	--	--	--	--	1	--	--	--	--	MOUNT ABOVE 05-24
05-24	W5-54	18 X 18	CLEARANCE MARKER	2.25	--	--	--	--	--	--	--	--	--	--	MOUNT BELOW 05-23
05-26	W3-1	36 X 36	STOP AHEAD	--	--	9.00	--	--	1	--	--	--	--	--	
05-30	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	1	--	--	--	--	--	--	
05-31	D1-3	78 X 36	DESTINATION/ARROW: Deerfield, Edgerton, Cambridge	19.50	--	--	--	--	2	--	--	--	--	--	
05-34	R1-1	36 X 36	STOP	7.46	--	--	--	--	1	--	--	--	--	--	MOUNT ABOVE 05-35
05-35	R6-3	30 X 24	DIVIDED HIGHWAY	5.00	--	--	--	--	--	--	--	--	--	--	MOUNT BELOW 05-34
05-36	R1-1	36 X 36	STOP	7.46	--	--	--	--	1	--	--	--	--	--	
05-38	J3-3	72 X 57	DIRECTIONAL ASSEMBLY (3 PANEL)	28.50	--	--	--	--	2	--	--	--	--	--	MOUNT ON BACK OF 05-39
	M3-1	24 X 12	NORTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-LEFT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB6-1	24 X 21	ARROW-LEFT	--	--	--	--	--	--	--	--	--	--	--	
	M3-3	24 X 12	SOUTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
05-39	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	--	--	--	--	--	--	MOUNT ON BACK OF 05-38
05-41	R6-2L	24 X 30	ONE WAY LEFT ARROW	5.00	--	--	--	--	1	--	--	--	--	--	
05-42	R6-2L	24 X 30	ONE WAY LEFT ARROW	5.00	--	--	--	--	1	--	--	--	--	--	
05-43	R1-1	30 X 30	STOP	5.18	--	--	--	--	1	--	--	--	--	--	
05-45	R1-1	30 X 30	STOP	5.18	--	--	--	--	1	--	--	--	--	--	MOUNT ABOVE 05-46
05-46	R6-3	30 X 24	DIVIDED HIGHWAY	5.00	--	--	--	--	--	--	--	--	--	--	MOUNT BELOW 05-45
05-47	W14-1	30 X 30	DEAD END	--	--	6.25	--	--	1	--	--	--	--	--	
05-48	W1-1R	36 X 36	RIGHT CURVE	--	--	9.00	--	--	1	--	--	--	--	--	
05-50	W3-1	36 X 36	STOP AHEAD	--	--	9.00	--	--	1	--	--	--	--	--	
05-51	R4-7	24 X 30	KEEP RIGHT	5.00	--	--	--	--	1	--	--	--	--	--	
05-52	W1-6	48 X 24	NIGHT ARROW (SINGLE)	--	--	8.00	--	1	--	--	--	--	--	--	
05-53	W1-6	48 X 24	NIGHT ARROW (SINGLE)	--	--	8.00	--	1	--	--	--	--	--	--	
SUBTOTALS				191.53	--	49.25	--	3	16	3	1	--	--	--	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

CONTINUED ON NEXT SHEET

SIGNS AND SIGN SUPPORTS (CONT.)

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
06-01	W6-3	36 X 36	TWO-WAY TRAFFIC	--	--	9.00	--	--	1	--	--	--	--	--	
06-02	W6-1	36 X 36	DIVIDED HIGHWAY AHEAD	--	--	9.00	--	--	1	--	--	--	--	--	
06-03	J1-2	48 X 39	JUNCTION ASSEMBLY (2 PANEL)	13.00	--	--	--	--	1	--	--	--	--	--	
	M2-1	24 X 15	JUNCTION MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M2-1	24 X 15	JUNCTION MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
R7-01	--	-- X --	LEFT CURVE	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
07-01	W1-2L	30 X 30	LEFT CURVE	--	--	6.25	--	--	1	--	--	--	--	--	
07-02	W6-1	36 X 36	DIVIDED HIGHWAY AHEAD	--	--	9.00	--	--	1	--	--	--	--	--	
07-03	W6-3	36 X 36	TWO-WAY TRAFFIC	--	--	9.00	--	--	1	--	--	--	--	--	
R7-02	--	-- X --	NO PASSING ZONE	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
07-04	R2-1	24 X 30	SPEED LIMIT 55 MPH	5.00	--	--	--	--	1	--	--	--	--	--	
07-05	D2-1	72 X 15	DESTINATION/DISTANCE: Madison 18	7.50	--	--	--	1	1	--	--	--	--	--	
07-07	W4-2R	36 X 36	LANE REDUCTION TRANSITION-RIGHT	--	--	9.00	--	--	1	--	--	--	--	--	
07-08	W6-2	36 X 36	DIVIDED HIGHWAY ENDS SYMBOL	--	--	9.00	--	--	1	--	--	--	--	--	
08-01	W14-1	30 X 30	DEAD END	--	--	6.25	--	1	--	--	--	--	--	--	
08-02	R1-1	30 X 30	STOP	5.18	--	--	--	1	--	--	--	--	--	--	
R8-01	--	-- X --	DEAD END	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R8-02	--	-- X --	STOP	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
08-03	W9-2L	36 X 36	LEFT LANE ENDS MERGE LEFT	--	--	9.00	--	--	1	--	--	--	--	--	
08-04	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	1	--	--	--	--	--	MOUNT ON BACK OF 08-05
08-05	J4-4	96 X 36	REASSURANCE ASSEMBLY (4 PANEL)	24.00	--	--	--	--	2	--	--	--	--	--	MOUNT ON BACK OF 08-04
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M3-4	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
R8-03	--	-- X --	JUNCTION ASSEMBLY (1 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
08-06	W4-3R	36 X 36	MERGE-ADDED LANE FROM RIGHT	--	--	9.00	--	--	1	--	--	--	--	--	
08-07	E5-1	60 X 48	EXIT AND ARROW	--	--	20.00	--	--	--	2	--	--	--	--	MOUNT ABOVE SIGN 08-07A
08-07A	E13-1P	60 X 24	10 MPH	--	--	10.00	--	--	--	--	--	--	--	--	MOUNT BELOW SIGN 08-07
R8-04	--	-- X --	NO PASSING ZONE	--	--	--	--	--	--	--	--	--	1	--	REMOVE ONLY
R8-05	--	-- X --	DESTINATION/DISTANCE: Madison 18	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R8-06	--	-- X --	ROUTE TURN ASSEMBLY (4 PANEL)	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R8-07	--	-- X --	SPEED LIMIT 55 MPH	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R8-08	--	-- X --	DESTINATION/ARROW: Cambridge, Edgerton, Deerfield	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
08-08	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	1	--	--	--	--	--	--	
08-09	W4-6	36 X 36	ENTERING ROADWAY ADDED LANE	--	--	9.00	--	--	1	--	--	--	--	--	
SUBTOTALS				72.43	--	123.50	--	4	16	2	--	--	10	12	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

CONTINUED ON NEXT SHEET

SIGNS AND SIGN SUPPORTS (CONT.)

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
08-11	J2-3	72 X 57	ROUTE TURN ASSEMBLY (3 PANEL)	28.50	--	--	--	--	--	2	--	--	--	--	
	M3-1	24 X 12	NORTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1L	24 X 21	ADVANCE ARROW LEFT TURN	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB5-1L	24 X 21	ADVANCE ARROW LEFT TURN	--	--	--	--	--	--	--	--	--	--	--	
	M3-3	24 X 12	SOUTH CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
08-13	W1-1R	36 X 36	RIGHT TURN	--	--	9.00	--	--	--	1	--	--	--	--	MOUNT ABOVE 08-14
08-14	W13-1	24 X 24	ADVISORY SPEED 20 MPH	--	--	4.00	--	--	--	--	--	--	--	--	MOUNT BELOW 08-13
08-15	J3-2	48 X 57	ROUTE TURN ASSEMBLY (2 PANEL)	19.00	--	--	--	--	1	--	--	--	--	--	
	M4-5	24 X 12	TO	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
08-16	W1-8	18 X 24	CHEVRON	--	--	3.00	1	--	--	--	--	--	--	--	
08-17	W1-8	18 X 24	CHEVRON	--	--	3.00	1	--	--	--	--	--	--	--	
08-18	W1-8	18 X 24	CHEVRON	--	--	3.00	1	--	--	--	--	--	--	--	
08-19	W1-8	18 X 24	CHEVRON	--	--	3.00	1	--	--	--	--	--	--	--	
08-20	J1-1	24 X 39	JUNCTION ASSEMBLY (1 PANEL)	6.50	--	--	--	--	1	--	--	--	--	--	
	M2-1	24 X 15	JUNCTION MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
09-01	D1-3	66 X 36	DESTINATION/ARROW: Madison, Edgerton, Deerfield	16.50	--	--	--	--	2	--	--	--	--	--	
R9-01	--	-- X --	ROUTE CONFIRMATION ASSEMBLY (3 PANEL)	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
09-02	W13-2	36 X 48	EXIT 10 MPH	--	--	12.00	--	--	1	--	--	--	--	--	
R9-02	--	-- X --	DIRECTIONAL ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R9-03	--	-- X --	STOP	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R9-04	--	-- X --	KEEP RIGHT	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R9-05	--	-- X --	DOUBLE DOWN ARROWS	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R9-06	--	-- X --	STOP	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R9-07	--	-- X --	DIRECTIONAL ASSEMBLY (4 PANEL)	--	--	--	--	--	--	--	--	--	1	3	REMOVE ONLY
R9-08	--	-- X --	DIRECTIONAL ASSEMBLY (1 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R9-09	--	-- X --	DIRECTIONAL ASSEMBLY (3 PANEL) & NIGHT ARROW (DOUBLE)	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
09-03	J2-2	48 X 57	ROUTE TURN ASSEMBLY (2 PANEL)	19.00	--	--	--	--	1	--	--	--	--	--	
	M4-5	24 X 12	TO	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
09-04	J3-2	48 X 57	ROUTE TURN ASSEMBLY (2 PANEL)	19.00	--	--	--	--	1	--	--	--	--	--	
	M4-5	24 X 12	TO	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
SUBTOTALS				108.50	--	37.00	4	--	7	3	--	--	9	14	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

CONTINUED ON NEXT SHEET

SIGNS AND SIGN SUPPORTS (CONT.)

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
09-05	J2-2	48 X 57	ROUTE TURN ASSEMBLY (2 PANEL)	19.00	--	--	--	--	--	1	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	21 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	21 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
09-06	J2-2	48 X 57	ROUTE TURN ASSEMBLY (2 PANEL)	19.00	--	--	--	--	1	--	--	--	--	--	
	M3-2	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	21 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
	M3-2	24 X 12	WEST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	21 X 21	ARROW-AHEAD	--	--	--	--	--	--	--	--	--	--	--	
09-07	J3-3	72 X 57	ROUTE TURN ASSEMBLY (3 PANEL)	28.50	--	--	--	--	1	1	--	--	--	--	
	M4-5	24 X 12	TO	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
09-08	J1-1	24 X 39	JUNCTION ASSEMBLY (1 PANEL)	6.50	--	--	--	--	1	--	--	--	--	--	
	M2-1	24 X 15	JUNCTION MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
R9-11	--	-- X --	DIRECTIONAL ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R9-12	--	-- X --	DESTINATION/ARROW: Madison, Deerfield	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R9-13	--	-- X --	DEAD END	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R9-14	--	-- X --	STOP	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
09-09	J2-3	72 X 57	ROUTE TURN ASSEMBLY (3 PANEL)	28.50	--	--	--	--	--	2	--	--	--	--	
	M4-5	24 X 12	TO	--	--	--	--	--	--	--	--	--	--		
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB5-1R	24 X 21	ADVANCE ARROW RIGHT TURN	--	--	--	--	--	--	--	--	--	--	--	
09-11	W13-2	36 X 48	EXIT 10 MPH	--	--	12.00	--	--	1	--	--	--	--	--	
09-12	D1-3	78 X 36	DESTINATION/ARROW: Cambridge, Edgerton, Deerfield	19.50	--	--	--	--	2	--	--	--	--	--	
R9-15	--	-- X --	ROUTE TURN ASSEMBLY (3 PANEL)	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R9-16	--	-- X --	ROUTE TURN ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
09-13	W1-1R	36 X 36	RIGHT CURVE	--	--	9.00	--	--	1	--	--	--	--	--	
R10-01	--	-- X --	ROUTE TURN ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
10-01	J1-1	24 X 39	JUNCTION ASSEMBLY (1 PANEL)	6.50	--	--	--	--	1	--	--	--	--	--	
	M2-1	24 X 15	JUNCTION MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
10-02	I55-56	30 X 36	ADOPT-A-HIGHWAY	7.50	--	--	--	--	1	--	--	--	--	--	
10-03	W4-6	36 X 36	ENTERING ROADWAY ADDED LANE	--	--	9.00	--	--	1	--	--	--	--	--	
SUBTOTALS				135.00	--	30.00	--	--	10	4	--	--	7	10	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

CONTINUED ON NEXT SHEET

SIGNS AND SIGN SUPPORTS (CONT.)

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
10-04	E5-1	60 X 48	EXIT AND ARROW	--	--	20.00	--	--	--	2	--	--	--	--	MOUNT ABOVE SIGN 10-04A
10-04A	E13-1P	60 X 24	10 MPH	--	--	10.00	--	--	--	--	--	--	--	--	MOUNT BELOW SIGN 10-04
10-05	W4-3R	36 X 36	MERGE-ADDED LANE FROM RIGHT	--	--	9.00	--	--	1	--	--	--	--	--	
R10-02	--	-- X --	LEFT CURVE	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
10-06	W1-2L	36 X 36	LEFT CURVE	--	--	9.00	--	--	--	1	--	--	--	--	
R10-03	--	-- X --	DESTINATION/ARROW: Cambridge, Edgerton	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R10-04	--	-- X --	DIRECTIONAL ASSEMBLY (1 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R10-05	--	-- X --	DIRECTIONAL ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R10-06	--	-- X --	NIGHT ARROW (DOUBLE)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R10-07	--	-- X --	DIRECTIONAL ASSEMBLY (4 PANEL)	--	--	--	--	--	--	--	--	--	1	3	REMOVE ONLY
R10-08	--	-- X --	STOP	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R10-09	--	-- X --	DIRECTIONAL ASSEMBLY (4 PANEL)	--	--	--	--	--	--	--	--	--	1	3	REMOVE ONLY
R10-10	--	-- X --	DOUBLE DOWN ARROWS	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R10-11	--	-- X --	STOP	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R10-12	--	-- X --	DIRECTIONAL ASSEMBLY (2 PANEL)	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R10-13	--	-- X --	END OF ROAD MARKER	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R10-14	--	-- X --	ADOPT-A-HIGHWAY	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
10-07	W5-56	18 X 18	END OF ROAD MARKER	--	2.25	--	1	--	--	--	--	--	1	1	REMOVE ONLY
10-08	W5-56	18 X 18	END OF ROAD MARKER	--	2.25	--	1	--	--	--	--	--	--	--	
10-09	W5-56	18 X 18	END OF ROAD MARKER	--	2.25	--	1	--	--	--	--	--	--	--	
10-11	J4-3	72 X 36	REASSURANCE ASSEMBLY (3 PANEL)	18.00	--	--	--	--	2	--	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 12 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M3-2	24 X 12	EAST CARDINAL ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-4	24 X 24	USH 18 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
10-12	W9-2L	36 X 36	LEFT LANE ENDS MERGE LEFT	--	--	9.00	--	--	1	--	--	--	--	--	
10-13	I55-56	30 X 36	ADOPT-A-HIGHWAY	7.50	--	--	--	--	1	--	--	--	--	--	
10-15	W1-8	18 X 24	CHEVRON	--	--	3.00	1	--	--	--	--	--	--	--	
10-16	W1-8	18 X 24	CHEVRON	--	--	3.00	1	--	--	--	--	--	--	--	
10-17	W1-8	18 X 24	CHEVRON	--	--	3.00	1	--	--	--	--	--	--	--	
10-18	W1-8	18 X 24	CHEVRON	--	--	3.00	1	--	--	--	--	--	--	--	
10-19	J3-3	72 X 57	ROUTE TURN ASSEMBLY (3 PANEL)	28.50	--	--	--	--	1	1	--	--	--	--	
	M4-5	24 X 12	TO	--	--	--	--	--	--	--	--	--	--	--	
	M1-6	24 X 24	STATE 73 ROUTE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 39 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
	MB4-1	24 X 12	ALTERNATE MARKER	--	--	--	--	--	--	--	--	--	--	--	
	M1-1	24 X 24	INTERSTATE 94 SHIELD	--	--	--	--	--	--	--	--	--	--	--	
	MB6-1	24 X 21	ARROW-RIGHT	--	--	--	--	--	--	--	--	--	--	--	
R11-01	--	-- X --	REASSURANCE ASSEMBLY (3 PANEL)	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
11-01	W4-2R	36 X 36	LANE REDUCTION TRANSITION-RIGHT	--	--	9.00	--	--	1	--	--	--	--	--	MOUNT ON BACK OF 11-02
11-02	R5-1A	42 X 30	WRONG WAY	8.75	--	--	--	--	--	--	--	--	--	--	MOUNT ON BACK OF 11-01
11-03	W6-2	36 X 36	DIVIDED HIGHWAY ENDS	--	--	9.00	--	--	1	--	--	--	--	--	MOUNT ON BACK OF 11-05
R11-02	--	-- X --	SPEED LIMIT 55 MPH	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R11-03	--	-- X --	ADVANCE CROSSROAD NAME SIGN: Fadness Rd	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
R11-04	--	-- X --	DESTINATION/ARROW: Edgerton, Madison, Deerfield	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
SUBTOTALS				62.75	6.75	87.00	7	--	8	4	--	--	18	28	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

CONTINUED ON NEXT SHEET

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SIGNS AND SIGN SUPPORTS

SIGN NO.	SIGN CODE	SIGN DIMENSIONS W X H	DESCRIPTION	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2220 SIGNS TYPE II REFLECTIVE SH SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	634.0620 POSTS WOOD 4x6x20 EACH	634.0622 POSTS WOOD 4x6x22 EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
CAT 1000															
R11-05	--	-- X --	DESTINATION/DISTANCE: Cambridge 3, Jefferson 14	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
11-05	R5-1	36 X 36	DO NOT ENTER	9.00	--	--	--	--	1	--	--	--	--	--	MOUNT ON BACK OF 11-03
11-09	R2-1	24 X 30	SPEED LIMIT 55 MPH	5.00	--	--	--	--	1	--	--	--	--	--	
R11-06	--	-- X --	ROUTE TURN ASSEMBLY (4 PANEL)	--	--	--	--	--	--	--	--	--	1	3	REMOVE ONLY
R11-07	--	-- X --	STOP	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R11-08	--	-- X --	ADOPT-A-HIGHWAY	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R11-09	--	-- X --	JUNCTION ASSEMBLY (1 PANEL)	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
11-10	W6-3	36 X 36	TWO-WAY TRAFFIC SYMBOL	--	--	9.00	--	--	1	--	--	--	--	--	
11-11	W5-56	18 X 18	END OF ROAD MARKER	--	2.25	--	1	--	--	--	--	--	--	--	
11-12	W5-56	18 X 18	END OF ROAD MARKER	--	2.25	--	1	--	--	--	--	--	--	--	
11-13	W5-56	18 X 18	END OF ROAD MARKER	--	2.25	--	1	--	--	--	--	--	--	--	
R12-01	--	-- X --	RIGHT CURVE	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
12-01	W1-2R	30 X 30	RIGHT CURVE	--	--	6.25	--	--	1	--	--	--	--	--	
R12-02	--	-- X --	NO PASSING ZONE	--	--	--	--	--	--	--	--	--	1	1	REMOVE ONLY
R12-03	--	-- X --	ADVANCE CROSSROAD NAME SIGN: Fadness Rd	--	--	--	--	--	--	--	--	--	1	2	REMOVE ONLY
12-02	W14-3	48 X 36	NO PASSING ZONE	--	--	6.00	--	--	1	--	--	--	--	--	
R12-04	--	-- X --	NO PASSING ZONE	--	--	--	--	--	--	--	--	--	1	1	
12-03	W6-1	36 X 36	DIVIDED HIGHWAY AHEAD	--	--	9.00	--	--	1	--	--	--	--	--	
12-04	D2-2	78 X 24	DESTINATION/DISTANCE: Cambridge 3, Jefferson 14	13.00	--	--	--	--	2	--	--	--	--	--	
SUBTOTALS				27.00	6.75	30.25	3	--	8	--	--	--	9	13	
TOTALS				1,371.38	13.50	466.50	16	23	108	32	3	1	78	108	

NOTE: CONSTRUCT "J" ASSEMBLY SIGNS WITH ONE PANEL FOR ALL ROUTE SIGNS AT EACH LOCATION

TRAFFIC CONTROL ITEMS

LOCATION	DAYS	643.0300 DRUMS NO.	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III NO.	643.0420 BARRICADES TYPE III DAYS	643.0705 WARNING LIGHTS TYPE A NO.	643.0705 WARNING LIGHTS TYPE A DAYS	643.0715 WARNING LIGHTS TYPE C NO.	643.0715 WARNING LIGHTS TYPE C DAYS	643.0900 SIGNS NO.	643.0900 SIGNS DAYS	643.1050 SIGNS PCMS NO.	643.1050 SIGNS PCMS DAYS
CAT 1000													
PRIOR TO PROJECT START													
USH 12/18	10	--	--	--	--	--	--	--	--	--	--	2	20
STH 73	10	--	--	--	--	--	--	--	--	--	--	2	20
OSOW	10	--	--	--	--	--	--	--	--	--	--	--	--
PRIOR TO PROJECT START SUBTOTALS			--		--		--		--		--		40
STAGE 1													
USH 12/18	6	225	1,350	--	--	--	--	14	84	12	72	--	--
STH 73	6	--	--	--	--	--	--	--	--	8	48	--	--
OSOW	6	--	--	--	--	--	--	--	--	32	192	--	--
STAGE 1 SUBTOTALS			1,350		--		--		84		312		--
STAGE 2													
USH 12/18	51	37	1,887	--	--	--	--	9	459	25	1,275	--	--
STH 73	51	61	3,111	--	--	--	--	--	--	9	459	--	--
OSOW	51	--	--	--	--	--	--	--	--	32	1,632	--	--
STAGE 2 SUBTOTALS			4,998		--		--		459		3,366		--
STAGE 3													
USH 12/18	55	39	2,145	12	660	18	990	--	--	42	2,310	2	110
STH 73	55	60	3,300	16	880	24	1,320	--	--	19	1,045	1	55
OSOW	55	--	--	--	--	--	--	--	--	24	1,320	--	--
STAGE 3 SUBTOTALS			5,445		1,540		2,310		--		4,675		165
STAGE 4													
USH 12/18	47	101	4,747	6	282	6	--	--	--	33	1,551	2	94
STH 73	47	73	3,431	27	1,269	40	1,880	--	--	25	1,175	1	47
OSOW	47	--	--	--	--	--	--	--	--	22	1,034	--	--
JUG RAMP B/SHAUL LN CONNECTION	3	6	18	9	162	11	33	--	--	2	6	--	--
STAGE 4 SUBTOTALS			8,196		1,713		1,913		--		3,766		141
STAGE 5A													
USH 12/18	4	208	832	--	--	--	--	8	32	18	72	--	--
STH 73	4	--	--	--	--	--	--	--	--	8	32	--	--
OSOW	4	--	--	--	--	--	--	--	--	32	128	--	--
STAGE 5A SUBTOTALS			832		--		--		32		232		--
STAGE 5B													
USH 12/18	3	73	219	--	--	--	--	--	--	12	36	--	--
STH 73	3	--	--	--	--	--	--	--	--	8	24	--	--
OSOW	3	--	--	--	--	--	--	--	--	--	--	--	--
STAGE 5B SUBTOTALS			219		--		--		--		60		--
UNDISTRIBUTED	30	--	--	--	--	--	--	--	--	--	--	2	60
TOTALS			21,040		3,253		4,223		575		12,411		406

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TRAFFIC CONTROL DETOUR ITEMS

LOCATION	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I NO.	CYCLES	EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II NO.	CYCLES	EACH	643.3000 TRAFFIC CONTROL DETOUR SIGNS NO.	DAYS	DAYS
CAT 1000									
STH 73 SOUTH PHASE	4	1	4	16	1	16	323	55	17,765
STH 73 NORTH PHASE	--	--	--	5	1	5	362	47	17,014
TOTALS			4			21			34,779

PAVEMENT MARKING ITEMS

STATION - STATION	LOCATION	646.0106 EPOXY 4-INCH (WHITE) LF	EPOXY 4-INCH (YELLOW) LF	646.0843.S GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE) LF	646.0883.S GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE) LF	647.0166 ARROWS EPOXY TYPE 2 (WHITE) EACH	647.0356 WORDS EPOXY (WHITE) EACH	647.0456 CURB EPOXY (YELLOW) LF	647.0566 STOP LINE EPOXY 18-INCH (WHITE) LF	647.0606 ISLAND NOSE EPOXY (YELLOW) EACH	647.0726 DIAGONAL EPOXY 12-INCH (WHITE) LF	DIAGONAL EPOXY 12-INCH (YELLOW) LF	COMMENTS
CAT 1000													
STAGE 3													
584+25 - 609+50	LT & RT	5,360	5,150	--	355	2	1	105	--	2	--	240	STH 73
300+89'SH' - 315+00'SH'	LT & RT	2,805	3,040	--	110	1	--	66	42	2	--	40	SHAUL LN
STAGE 3 SUBTOTAL		8,165	8,190	--	465	3	1	171	42	4	--	280	
		16,355									280		
STAGE 4													
609+50 - 625+00	LT & RT	3,400	3,720	--	355	2	1	69	--	2	--	275	STH 73
625+00 - 637+75	LT & RT	3,205	2,980	--	410	4	2	76	--	2	90	185	STH 73
637+75 - 655+10	LT & RT	4,125	4,270	--	310	4	2	42	--	2	55	240	STH 73
STAGE 4 SUBTOTAL		10,730	10,970	--	1,075	10	5	187	--	6	145	700	
		21,700									845		
STAGE 5													
613+00'B' - 652+00'B'	LT & RT	8,145	11,625	855	--	--	--	--	--	--	--	1,865	USH 12/18
652+00'B' - 664+00'B'	LT & RT	3,055	2,400	825	--	2	1	--	--	--	--	--	USH 12/18
664+00'B' - 678+00'B'	LT & RT	3,455	2,800	910	--	2	1	--	--	--	--	--	USH 12/18
678+00'B' - 717+16'B'	LT & RT	8,520	8,480	845	--	--	--	--	--	--	--	410	USH 12/18
1000+44'JA' - 1003+15'JA'	LT & RT	370	750	25	270	4	2	56	50	1	--	--	JUG RAMP A
2001+43'JB' - 2009+94'JB'	LT & RT	1,470	1,775	--	290	2	1	56	50	1	--	--	JUG RAMP B
STAGE 5 SUBTOTAL		25,015	27,830	3,460	560	10	5	112	100	2	--	2,275	
		52,845									2,275		
TOTALS		43,910	46,990	3,460	2,100	23	11	470	142	12	145	3,255	
		90,900									3,400		

REMOVING PAVEMENT MARKINGS

STAGE	STATION - STATION	LOCATION	646.0600 LF	COMMENTS
CAT 1000				
STAGE 1				
	613+00'BE' - 717+00'BE'	LT & RT	25,130	USH 12/18
STAGE 1 SUBTOTALS			25,130	
STAGE 2				
	618+45'BE' - 711+69'BE'	LT & RT	30,490	USH 12/18
STAGE 2 SUBTOTALS			30,490	
STAGE 3				
	642+00'BE' - 689+03'BE'	LT & RT	7,080	USH 12/18
STAGE 3 SUBTOTALS			7,080	
TOTALS			62,700	

LOCATING NO - PASSING ZONES

LOCATION	648.0100 MI	COMMENTS
CAT 1000		
584+25 - 599+66	0.29	STH 73
TOTAL	0.29	

CPM PROGRESS SCHEDULE ITEMS

LOCATION	SPV.0060.001 BASELINE CPM PROGRESS SCHEDULE EACH	SPV.0060.002 CPM PROGRESS SCHEDULE UPDATES AND ACCEPTED REVISIONS EACH
CAT 1000		
PROJECT	1	7
TOTALS	1	7

TEMPORARY PAVEMENT MARKING ITEMS

			649.0100 TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)	649.0100 4-INCH (YELLOW)	649.0400 REMOVABLE TAPE 4-INCH (WHITE)	649.0400 REMOVABLE TAPE 4-INCH (YELLOW)	649.0701 8-INCH (WHITE)	649.0801 REMOVABLE TAPE 8-INCH (WHITE)	649.1100 STOP LINE 18-INCH (WHITE)	649.1200 STOP LINE REMOVABLE TAPE 18-INCH (WHITE)	
STAGE	STATION - STATION	LOCATION	LF	LF	LF	LF	LF	LF	LF	LF	COMMENTS
CAT 1000											
STAGE 1											
	613+00'BE' - 628+50'BE'	LT & RT	--	--	3,100	3,100	--	--	--	--	USH 12/18
	628+50'BE' - 702+15'BE'	LT & RT	13,275	14,730	--	--	200	--	--	--	USH 12/18
	702+15'BE' - 717+00'BE'	LT & RT	--	--	2,970	2,970	--	--	--	--	USH 12/18
STAGE 1 SUBTOTAL			13,275	14,730	6,070	6,070	200	--	--	--	
STAGE 2											
	613+00'BE' - 628+50'BE'	LT & RT	800	--	2,300	3,100	--	--	--	--	USH 12/18
	628+50'BE' - 702+15'BE'	LT & RT	14,155	14,735	--	--	400	--	--	--	USH 12/18
	702+15'BE' - 717+00'BE'	LT & RT	710	--	2,260	2,970	--	--	--	--	USH 12/18
STAGE 2 SUBTOTAL			15,665	14,735	4,560	6,070	400	--	--	--	
STAGE 3											
	618+45'BE' - 628+50'BE'	LT & RT	600	400	1,410	1,610	--	--	--	--	USH 12/18
	628+50'BE' - 670+00'BE'	LT & RT	8,370	8,310	--	--	--	--	--	--	USH 12/18
	685+57'BE' - 702+15'BE'	LT & RT	3,200	3,155	--	--	--	--	--	--	USH 12/18
	702+15'BE' - 711+70'BE'	LT & RT	560	510	1,400	1,440	--	--	--	--	USH 12/18
STAGE 3 SUBTOTAL			12,730	12,375	2,810	3,050	--	--	--	--	
STAGE 4											
	620+05'B' - 628+50'B'	LT & RT	600	500	1,090	1,190	--	--	--	--	USH 12/18
	628+50'B' - 702+00'B'	LT & RT	2,275	--	12,060	14,730	--	720	--	--	USH 12/18
	702+00'B' - 710+54'B'	LT & RT	590	--	1,100	1,690	--	--	--	--	USH 12/18
	1001+04'JA' - 1004+55'JA'	LT & RT	95	300	300	125	--	--	40	--	JUG RAMP A
	2000+23'JB' - 2009+46'JB'	LT & RT	1,320	--	425	510	--	--	30	25	JUG RAMP B
STAGE 4 SUBTOTAL			4,880	800	14,975	18,245	--	720	70	25	
STAGE 5											
	655+00'B' - 659+20'B'	LT & RT	--	--	420	420	--	--	--	--	USH 12/18
STAGE 5 SUBTOTAL			--	--	420	420	--	--	--	--	
TOTALS			46,550	42,640	28,835	33,855	600	720	70	25	
			89,190		62,690						

3

SAWING ITEMS

STATION - STATION	LOCATION	690.0150 ASPHALT LF	690.0250 CONCRETE LF	COMMENTS
CAT 1000				
STAGE 1				
644+88'BE' - 647+78'BE'	RT	290	--	NULAND RD INTERSECTION
697+58'BE' - 699+50'BE'	RT	195	--	FADNESS RD INTERSECTION
STAGE 1 SUBTOTALS		485	--	
STAGE 2				
637+80'BE'	LT	14	--	DRIVEWAY
STAGE 2 SUBTOTALS		14	--	
STAGE 3				
628+50'BE' - 644+15'BE'	LT & RT	--	1,700	USH 12/18
690+00'BE' - 702+00'BE'	LT & RT	--	1,215	USH 12/18
584+25	LT & RT	24	--	STH 73 BEGIN PROJECT
622+55	LT	16	--	DRIVEWAY
6+50'NU"	LT & RT	14	--	NULAND RD
314+10'SH'	RT	19	5	DRIVEWAY
315+00'SH'	LT & RT	24	--	SHAUL LN
330+00'SH'	LT	16	--	DRIVEWAY
6+75'FD'	LT & RT	22	--	FADNESS RD
STAGE 3 SUBTOTALS		135	2,920	
STAGE 4				
628+50'B'	LT & RT	--	15	USH 12/18 BEGIN PROJECT
702+00'B'	LT & RT	--	15	USH 12/18 END PROJECT
655+10	LT & RT	36	--	STH 73 END PROJECT
STAGE 4 SUBTOTALS		36	30	
STAGE 5A				
693+54'B' - 702+00'B'	RT	860	--	USH 12/18 SHOULDER
STAGE 5A SUBTOTAL		860	--	
STAGE 5B				
628+50'B' - 643+00'B'	RT	1,470	--	USH 12/18 SHOULDER
STAGE 5B SUBTOTALS		1,470	--	
TOTALS		3,000	2,950	

LANDMARK REFERENCE MONUMENTS SPECIAL

LOCATION	SPV.0060.003 EACH
CAT 1000	
SOUTHEAST OF SEC 33, T7N, R12E	1
TOTAL	1

REMOVING GEODETIC SURVEY MONUMENT

STATION	LOCATION	SPV.0060.004 EACH
CAT 1000		
STAGE 3		
657+28'B'	RT	1
TOTAL		1

SURVEY PROJECT 3070-00-73

LOCATION	SPV.0105.010 LS
CAT 1000	
PROJECT	1
TOTAL	1

3

3

ITS CONDUIT ITEMS

LOCATION	FROM	TO	LINEAR DISTANCE	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF
CATEGORY 1200				
USH 12/18 @ STH 73	MB-1	CP-1	25	25
USH 12/18 @ CTH N	MB-2	CP-2	25	25
TOTALS				50

ITS CABLE ITEMS

LOCATION	FROM	TO	LINEAR DISTANCE LF	NUMBER OF ELECTRICAL WIRES LIGHTING 6 AWG EACH	CABLE SLACK ELECTRICAL AND/OR MICROWAVE DETECTOR LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
CATEGORY 1200						
USH 12/18 @ STH 73	MB-1	CP-1	25	3	12	115
USH 12/18 @ CTH N	MB-2	CP-2	25	3	12	115
TOTALS						230

ITS POWER CONNECTION ITEMS

LOCATION	ITEM ID	EQUIPMENT CODE	STATION	OFFSET	656.0200.001 ELECTRICAL SERVICE METER BREAKER PEDESTAL (MB1) LS	656.0200.002 ELECTRICAL SERVICE METER BREAKER PEDESTAL (MB2) LS	656.0500.001 ELECTRICAL SERVICE BREAKER DISCONNECT BOX (CCTV-13-0115) LS	656.0500.002 ELECTRICAL SERVICE BREAKER DISCONNECT BOX (CCTV-13-0116) LS
CATEGORY 1200								
USH 12/18 @ STH 73	CCTV-13-0115	MB-1	665+25 'B'	LT	1	---	---	---
USH 12/18 @ STH 73	CCTV-13-0115	CP-1	665+00 'B'	LT	---	---	1	---
USH 12/18 @ CTH N	CCTV-13-0116	MB-1	---	---	---	1	---	---
USH 12/18 @ CTH N	CCTV-13-0116	CP-1	---	---	---	---	---	1
TOTALS					1	1	1	1

ITS DEVICES & COMMUNICATION ITEMS

LOCATION	ITEM ID	EQUIPMENT CODE	STATION	OFFSET	659.0802 PLAQUES SEQUENCE IDENTIFICATION EACH	670.0100 FIELD SYSTEM INTEGRATOR LS	670.0200 ITS DOCUMENTATION LS	673.0225.S INSTALL POLE MOUNTED CABINET EACH	677.0200 INSTALL CAMERA ASSEMBLY EACH	677.0300.S INSTALL VIDEO ENCODER EACH	SPV.0060.401 INSTALL CELLULAR MODEM EACH	SPV.0060.402 POLES WOOD 65-FT EACH	SPV.0060.403 POLES WOOD 30-FT EACH	SPV.0060.404 INSTALL HARDWIRED BLUETOOTH SENSOR EACH	SPV.0060.405 INSTALL SOLAR-POWER BLUETOOTH SENSOR EACH
CATEGORY 1200															
USH 12/18 @ STH 73	CCTV-13-0115 WDS-0108	CP-1	665+00 'B'	CP-1	4	---	---	1	1	1	1	1	---	1	---
USH 12/18 @ CTH N	CCTV-13-0116 WDS-0107	CP-2	---	CP-2	4	---	---	1	1	1	1	1	---	1	---
CTH N @ USH 51	WDS-0108	DP-1		DP-1	2	---	---	---	---	---	---	---	1	---	1
UNDISTRIBUTED	---	---	---	---	---	1	1	---	--	---	---	---	---	---	---
TOTALS					10	1	1	2	2	2	2	2	1	2	1

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE DANE COUNTY REGISTER OF DEEDS OFFICE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

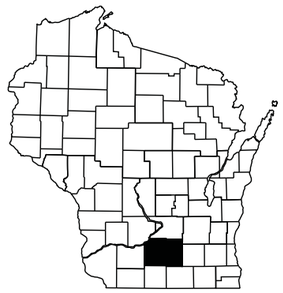
TRANSPORTATION PROJECT PLAT TITLE SHEET

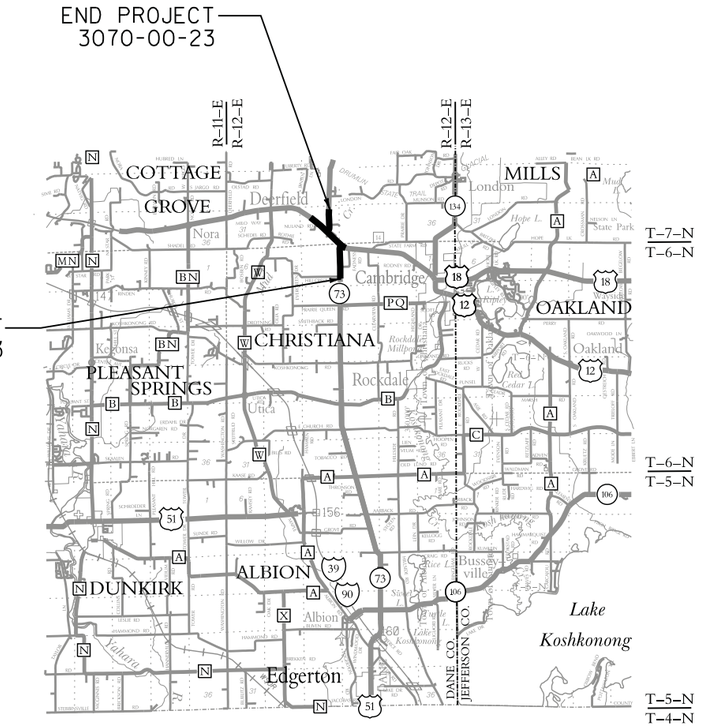
PROJECT 3070-00-23
IH 39 TO COLUMBUS

(FADNESS ROAD TO LONDON ROAD)

STH 73

DANE COUNTY





THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR 3070-00-23.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83(2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

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.

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 THE 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".

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 FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT-OF-WAY FOR USH 12-18 ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-22, 3082-02-21, 3070-02-21, CSM 11915, AND CSM 10704
EXISTING HIGHWAY RIGHT OF WAY FOR HWY 73 ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-22, 3070-03-21, 3070-02-21, CSM 11915, AND CSM 10704.
EXISTING HIGHWAY RIGHT OF WAY FOR SHAUL LANE ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-22, 3082-02-21, AND CSM 10704.
EXISTING HIGHWAY RIGHT OF WAY FOR MIKKLESON FARM DRIVE ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22.
EXISTING HIGHWAY RIGHT OF WAY FOR NULAND ROAD ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22.
EXISTING HIGHWAY RIGHT OF WAY FOR FADNESS ROAD ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22 AND CSM 11915

EXISTING ACCESS CONTROL FOR USH 12-18 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22
EXISTING ACCESS CONTROL FOR HWY 73 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECTS 3080-00-22, 3070-02-21, AND PREVIOUS ACCESS CONTROL PROJECT 3070-00-29.
EXISTING ACCESS CONTROL FOR SHAUL LANE ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22
EXISTING ACCESS CONTROL FOR MIKKLESON FARM DRIVE ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22
EXISTING ACCESS CONTROL FOR NULAND ROAD ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.
EXISTING ACCESS CONTROL FOR FADNESS ROAD ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22

FOR THE LATEST ACCESS CONTROL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

PARCEL INDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF AQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS.

A **TEMPORARY LIMITED EASEMENT** (TLE) IS A RIGHT FOR CONSTRUCTION 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 NECESSARY OR DESIRABLE. ALL TLES EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

N

LAYOUT
SCALE 0 2 MI.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	BUILDING	B
		REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	VOL.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	CHORD LENGTH	CL
LAND CONTRACT	LC	CHORD BEARING	CB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	Δ
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	T
DIRECTION AHEAD	DA		
DIRECTION BACK	DB		
POINT OF TANGENCY	POT		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⊥ (1" 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 CONTROLLED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS CONTROLLED (BY ACQUISTION)	
TEMPORARY LIMITED EASEMENT		ACCESS CONTROLLED (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT		QUARTER LINE	
PARCEL NUMBER	RWB20	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	102	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	92 21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	
BRIDGE			
GEODETIC MONUMENT			

CONVENTIONAL UTILITY SYMBOLS

		NON COMPENSABLE	COMPENSABLE
WATER	W		
GAS	G		
TELEPHONE	T		
OVERHEAD TRANSMISSION LINES	OH		
ELECTRIC	E	POWER POLE	
CABLE TELEVISION	TV	TELEPHONE POLE	
FIBER OPTIC	FO	TELEPHONE PEDESTAL	
SANITARY SEWER	SAN	ELECTRIC TOWER	
STORM SEWER	SS		

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3070-00-23 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\TPP\US 12-18\040100_rp.dgn
PLOT DATE : 4/21/2014
PLOT BY : bjl
PLOT NAME :
PLOT SCALE : 1:200

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE DANE COUNTY REGISTER OF DEEDS OFFICE

4

TRANSPORTATION PROJECT PLAT NO: 3070-00-23 - 4.01

THAT PART OF LOT 2 OF CSM 11915 LOCATED IN THE FRACTIONAL NORTHWEST 1/4 OF THE NORTHWEST 1/4, ALSO THAT PART OF THE FRACTIONAL NORTHWEST 1/4 OF THE NORTHWEST 1/4, ALL BEING LOCATED IN SECTION 3, T 6 N, R 12 E, TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN.

RELOCATION ORDER STH 73, IH 39 TO COLUMBUS
(FADNESS ROAD TO LONDON ROAD)

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2.

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS
DOCUMENT #
5068370
05/07/2014 09:14 AM
Trans. Fee:
Exempt #:
Rec. Fee: 25.00
Pages: 2

312

3070-00-23-4.01

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3070-00-23-4.01
SHEET 1 OF 2
AMENDMENT NO:

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), 84.09, AND 84.30 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.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR USH 12-18 ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22, 3082-02-21, AND CSM 11915
EXISTING HIGHWAY RIGHT OF WAY FOR HWY 73 ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-22, 3070-03-21, AND CSM 11915.
EXISTING HIGHWAY RIGHT OF WAY FOR FADNESS ROAD ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-22, AND CSM 11915.

EXISTING ACCESS CONTROL FOR USH 12-18 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.
EXISTING ACCESS CONTROL FOR SUH FADNESS ROAD ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.
EXISTING ACCESS CONTROL FOR STH 73 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22 AND PREVIOUS ACCESS CONTROL PROJECT 3070-00-29

FOR THE LATEST ACCESS CONTROL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83(2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

R/W COURSE TABLE

106-107	SEE CURVE DATA ON SHEET	
107-IP 153	S 45°42'47" E	187.55'
IP 153-108	S 48°52'57" E	202.63'
108-109	S 63°24'44" E	458.18'
109-110	S 78°30'10" E	476.78'
112-113	S 01°27'54" E	138.11'
113-114	S 86°45'51" W	10.46'
114-130	S 03°14'18" E	175.54'
131-116	N 03°14'18" W	175.49'
116-117	S 86°45'51" W	40.00'
117-118	N 03°14'18" W	187.30'
118-119	N 35°44'17" W	55.43'
119-120	N 79°42'35" W	280.21'
120-121	N 67°13'40" W	804.13'
121-IP 152	S 20°38'35" W	26.61'
IP 152-IP 151	N 69°21'25" W	2.57'
	RECORDED AS (N 69°45'45" W)	
IP 151-122	S 18°05'48" W	213.87'
122-123	S 04°02'49" W	221.87'
123-124	S 01°43'10" E	238.89'
124-125	N 87°51'46" E	16.89'
125-126	S 02°08'14" E	322.69'
126-127	N 87°51'46" E	15.00'
127-128	S 02°08'14" E	406.64'

TLE STATION & OFFSET TABLE

T180	592+20.00	75.00'
T181	592+20.00	85.00'
T182	591+50.00	85.00'
T183	591+50.00	75.00'
T184	589+30.00	75.00'
T185	589+30.00	85.00'
T186	588+43.30	85.00'
T187	596+81.66	90.69'
T188	596+58.12	190.36'
T189	596+00.55	174.92'
T190	596+20.15	74.62'
T191	689+18.91"B"	118.37'
T192	694+00.41"B"	100.13'
T193	698+92.98"B"	93.75'

EXISTING IRON PIPES

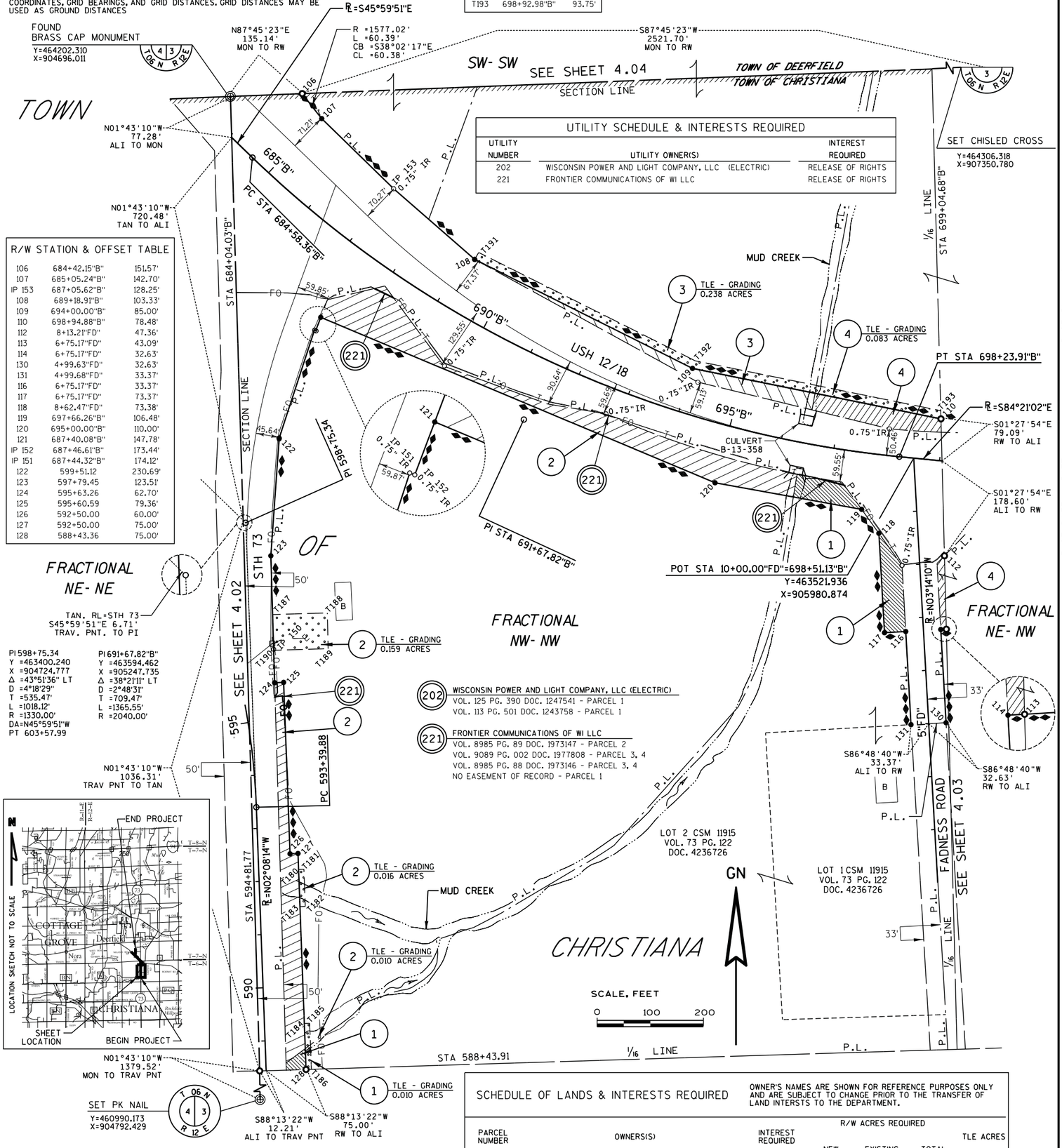
PT #	Y	X
IP 150	463162.313	904777.324
IP 151	463762.747	904854.490
IP 152	463761.228	904857.038
IP 153	464028.763	905002.888

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
202	WISCONSIN POWER AND LIGHT COMPANY, LLC (ELECTRIC)	RELEASE OF RIGHTS
221	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS

R/W STATION & OFFSET TABLE

106	684+42.15"B"	151.57'
107	685+05.24"B"	142.70'
IP 153	687+05.62"B"	128.25'
108	689+18.91"B"	103.33'
109	694+00.00"B"	85.00'
110	698+94.88"B"	78.48'
112	8+13.21"FD"	47.36'
113	6+75.17"FD"	43.09'
114	6+75.17"FD"	32.63'
130	4+99.63"FD"	32.63'
131	4+99.68"FD"	33.37'
116	6+75.17"FD"	33.37'
117	6+75.17"FD"	73.37'
118	8+62.47"FD"	73.38'
119	697+66.26"B"	106.48'
120	695+00.00"B"	110.00'
121	687+40.08"B"	147.78'
IP 152	687+46.61"B"	173.44'
IP 151	687+44.32"B"	174.12'
122	599+51.12	230.69'
123	597+79.45	123.51'
124	595+63.26	62.70'
125	595+60.59	79.36'
126	592+50.00	60.00'
127	592+50.00	75.00'
128	588+43.36	75.00'



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 INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
1	ERIK R. EKLOF AND KELLY L. EKLOF	FEE/TLE	0.273	---	0.273	0.010
2	MAX E. AND RUTH L. BARTH, TRUSTEES, OR THEIR SUCCESSORS IN TRUST, UNDER THE MAX E. AND RUTH L. BARTH LIVING TRUST, DATED AUGUST 25, 1999	FEE/TLE	1.286	---	1.286	0.185
3	JOAN E. SHAUL AND KIMBERLY A. SHAUL, OR THEIR SUCCESSORS, AS TRUSTEES OF THE DONALD AND JOAN SHAUL REVOCABLE LIVING TRUST DATED 01/26/07	FEE/TLE	0.242	---	0.242	0.238
4	ROBERT RIEGE & KIM RIEGE	FEE/TLE	0.226	---	0.226	0.083

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

emcs inc

I, KEVIN C. BOYER, 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 3070-00-23-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

(SIGNATURE) Kevin C Boyer DATE 4/23/2014
(PRINTED NAME) KEVIN C. BOYER
(REGISTRATION NUMBER) S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION'S NORTHEAST REGION OFFICE.

(SIGNATURE) DATE 4/23/14
(PRINTED NAME) Jennifer Quinn

4

PLOT SCALE : 1:1100
PLOT NAME :
PLOT BY : bjl
PLOT DATE : $DATE$
FILE NAME : $FILE$
APPRAISAL PLAT DATE : 04/23/2014

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE DANE COUNTY REGISTER OF DEEDS OFFICE

4

TRANSPORTATION PROJECT PLAT NO: 3070-00-23 - 4.02

THAT PART OF THE FRACTIONAL NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 4, T 6 N, R 12 E, TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN.

RELOCATION ORDER STH 73, IH 39 TO COLUMBUS
(FADNESS ROAD TO LONDON ROAD)

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), 84.09, AND 84.30 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.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83(2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR USH 12-18 ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22.
EXISTING HIGHWAY RIGHT OF WAY FOR HWY 73 ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-22, 3070-03-21.

EXISTING ACCESS CONTROL FOR HWY 12-18 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.
EXISTING ACCESS CONTROL FOR HWY 73 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22 AND PREVIOUS ACCESS CONTROL PROJECT 3070-00-29.

FOR THE LATEST ACCESS CONTROL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS
DOCUMENT #
5075086
06/10/2014 10:37 AM
Trans. Fee:
Exempt #:
Rec. Fee: 25.00
Pages: 1

313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3070-00-23-4.02
AMENDMENT NO:

3070-00-23-4.02

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 INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
3	JOAN E. SHAUL AND KIMBERLY A. SHAUL, OR THEIR SUCCESSORS, AS TRUSTEES OF THE DONALD AND JOAN SHAUL REVOCABLE LIVING TRUST DATED 01/26/07	FEE/TLE	6.187	---	6.187	0.016

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
221	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS

R/W STATION & OFFSET TABLE

200	588+45.10	62.21'
201	591+50.00	59.98'
202	591+50.00	70.00'
203	594+58.17	65.00'
204	603+00.00	65.00'
205	605+47.08	119.36'
206	605+47.83	131.00'
207	605+94.20	131.00'
208	606+00.00	120.00'
209	608+00.00	120.00'
210	610+67.38	142.99'
212	607+88.19	150.00'
213	605+50.00	150.00'
214	602+00.00	80.00'
215	599+69.00	70.00'
216	599+68.51	107.37'
IP 250	600+92.44	203.39'
218	685+10.00"B"	153.92'
219	681+61.66"B"	142.41'

R/W COURSE TABLE

200-201	N 01°43'10" W	304.90'
201-202	S 87°51'46" W	10.02'
202-203	N 02°08'14" W	302.24'
203-204	SEE CURVE DATA ON SHEET	
204-205	N 58°16'39" W	249.95'
205-206	S 47°41'53" W	11.66'
206-207	N 45°59'52" W	46.37'
207-208	N 16°12'00" E	12.44'
208-209	N 45°59'51" W	200.00'
209-210	N 50°54'46" W	268.37'
212-213	S 45°59'51" E	238.19'
213-214	S 33°26'53" E	367.90'
214-215	S 31°52'29" E	243.92'
215-216	N 61°34'44" E	37.38'
216-IP 250	N 02°50'39" E	168.35'
IP 250-218	N 01°43'10" W	253.32'
218-219	N 44°14'25" W	352.47'

TLE STATION & OFFSET TABLE

T281	591+80.00"B"	80.00'
T282	592+50.00"B"	80.00'
T283	592+50.00"B"	70.00'
T284	591+80.00"B"	70.00'

EXISTING IRON PIPES

PT =	Y	X
IP 251	463830.608	904674.165

FOUND STONE MONUMENT
Y=464091.690
X=902033.775

FOUND BRASS CAP MONUMENT
Y = 464202.310
X = 904696.011

FRONTIER COMMUNICATIONS OF WI LLC
NO EASEMENT OF RECORD - PARCEL 3

SE- SE

N87°37'14"E 1697.70' MON TO RW
N87°37'14"E 197.52' RW TO ALI
N87°37'14"E 207.20' ALI TO RW
N87°37'14"E 290.89' RW TO RW
N87°37'14"E 196.71' RW TO ALI
N87°37'14"E 74.52' ALI TO MON

STA 609+31.12
SEE SHEET 4.04
STA 682+97.29"B"
SECTION LINE
R=S45°59'51"E
S01°43'10"E 77.28' MON TO ALI
685'B'
USH 12/18
PC STA 684+58.36"B"
STA 684+04.03"B"
S01°43'10"E 720.48' ALI TO TAN
IP 251 0.75" IR
135.41'
EXISTING RL HWY 73 3080-00-22
33'
IP 250 0.75" IR
87.43'
TAN. RL=STH 73 S45°59'51"E 6.71' TRAV. PNT. TO PI
PI 598+75.54
62.89'
57.15'
55.97'
0.75" IR
R=S45°59'51"E
R=1265.00'
L=800.69'
CB=N25°21'58"W
CL=787.39'
TAN. RL=STH 73 S45°59'51"E 528.76' PT TO TRAV PNT
PI 603+51.99
ACCESS TO STH 73 RESTORED UNDER WIS. STAT. SEC. 86.05
M.15°55'55"
3.462 REMNANT ACRES
TOWN OF DEERFIELD
TOWN OF CHRISTIANA
TOWN
OF
FRACTIONAL NW- NW
FRACTIONAL NE- NE
FRACTIONAL NW- NE
SE- NE
CHRISTIANA
P.L.
1/16 LINE
STH 73
PI 691+67.82"B"
Y =463594.462
X =905247.735
Δ =38°21'11" LT
D =2°48'31"
T =709.47'
L =1365.55'
R =2040.00'
PT=698+23.91"B"
DA=S84°21'02"E
PI 598+75.34
Y =463400.240
X =904724.777
Δ =43°51'36" LT
D =4°18'29"
T =535.47'
L =1018.12'
R =1330.00'
DA=N45°59'51"W
PC=593+39.88
DB=S02°08'15"E
S01°43'10"E 1036.31' TAN TO TRAV PNT
STA 594+81.77
SEE SHEET 4.01
MUD CREEK
TLE - GRADING 0.016 ACRES
R=N02°08'14"W
SECTION LINE
OHP
595
590
50'
STA 588+43.91
S89°14'02"W 50.00' TRAV PNT TO RW
N01°43'10"W 1379.52' MON TO TRAV PNT
SET PK NAIL
Y = 460990.173
X = 904792.429
T 06 N R 12 E
LOCATION SKETCH NOT TO SCALE
END PROJECT
SHEET LOCATION
BEGIN PROJECT
GN
SCALE, FEET
0 100 200

emcs inc

I, KEVIN C. BOYER, 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 3070-00-23-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

(SIGNATURE) Kevin C. Boyer DATE 6/04/2014
(PRINTED NAME) KEVIN C. BOYER
(REGISTRATION NUMBER) S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SW REGION OFFICE.

(SIGNATURE) David R. Miller DATE 6/9/2014
(PRINTED NAME) DAVID R. MILLER

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 5068370 FOR ADDITIONAL INFORMATION.

PLOT SCALE : 1:100
PLOT NAME :
PLOT BY : bjl
PLOT DATE : $DATE$
FILE NAME : $FILE$
APPRAISAL PLAT DATE : 06/04/2014

4

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE DANE COUNTY REGISTER OF DEEDS OFFICE

4

TRANSPORTATION PROJECT PLAT NO: 3070-00-23 - 4.03

THAT PART OF THE FRACTIONAL NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 3, T 6 N, R 12 E, TOWN OF CHRISTIANA, DANE COUNTY, WISCONSIN.

RELOCATION ORDER STH 73, IH 39 TO COLUMBUS
(FADNESS ROAD TO LONDON ROAD)

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), 84.09, AND 84.30 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.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR USH 12-18 ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22.
EXISTING HIGHWAY RIGHT OF WAY FOR FADNESS ROAD ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22.

EXISTING ACCESS CONTROL FOR HWY 12-18 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.
EXISTING ACCESS CONTROL FOR FADNESS ROAD ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.

FOR THE LATEST ACCESS CONTROL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83(2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

SE- SW

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5075134
05/10/2014 11:33 AM
Trans. Fee:
Exempt #:
Rec. Fee: 25.00
Pages: 1

314

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3070-00-23-4.03
AMENDMENT NO:

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 INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	TLE ACRES
4	ROBERT RIEGE & KIM RIEGE	FEE/TLE	0.149	---	0.149	0.373

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

FOUND BRASS CAP MONUMENT
Y=464202.310
X=904696.011

N87°45'23"E
2656.80'
MON TO MON

SET CHISLED CROSS
Y=464306.318
X=907350.780

SECTION LINE P.L. TOWN OF DEERFIELD / TOWN OF CHRISTIANA

TOWN

4 TLE - GRADING 0.060 ACRES

R/W STATION & OFFSET TABLE

301	712+51.07"B"	66.71'
IP 350	709+16.55"B"	55.62'
303	705+16.55"B"	87.13'
IP 351	700+16.54"B"	64.17'
305	8+41.12"FD"	77.62'
306	6+75.17"FD"	77.63'
307	6+75.17"FD"	43.09'
308	8+13.21"FD"	47.36'
309	698+94.88"B"	78.48'
IP 353	700+15.64"B"	66.12'
311	704+21.42"B"	124.63'
312	705+70.51"B"	141.11'
313	709+70.29"B"	165.17'
314	711+70.40"B"	175.21'
315	711+77.63"B"	109.61'
316	709+84.06"B"	71.40'
317	712+33.08"B"	88.44'

R/W COURSE TABLE

301-IP 350	N 82°26'56" W	334.71'
IP 350-303	N 88°51'17" W	401.24'
303-IP 351	N 81°43'19" W	500.53'
IP 351-305	S 44°05'22" W	103.19'
305-306	S 03°14'18" E	165.94'
306-307	S 86°45'51" W	34.54'
307-308	N 01°27'54" W	138.11'
309-IP 353	S 78°30'10" E	121.39'
IP 353-311	N 87°26'36" E	409.98'
311-312	N 89°20'35" E	150.00'
312-313	S 87°47'40" E	400.50'
313-314	S 87°13'24" E	200.36'
314-315	S 00°38'35" E	66.00'
315-316	S 84°29'04" W	197.31'
316-317	S 88°15'47" E	249.61'

TLE STATION & OFFSET TABLE

T380	709+16.66"B"	70.65'
T381	705+16.79"B"	102.15'
T382	700+05.04"B"	78.65'
T383	698+92.98"B"	93.75'
T384	700+16.40"B"	81.11'
T385	701+20.14"B"	81.18'

S00°57'52"E
832.54'
MON TO RW

LOT 1 CSM 8499
VOL. 46 PG. 218-219
DOC. 2835997

16.5' INGRESS EGRESS EASEMENT
VOL. 711 PG. 63 DOC. 1481580
AND VOL. 711 PG. 65 DOC. 1481581

POT STA 10+00.00"FD"=698+51.13"B"
Y=463521.936
X=905980.874

STA 699+04.68"B"

N01°27'54"W
79.09'
ALI TO RW

PT STA 698+23.91"B"

USH 12/18

700"B"

705"B"

710"B"

EXISTING RL
3082-02-21

R=S84°21'02"E

PI 691+67.82"B"
Y =463594.462
X =905247.735
Δ =38°21'11" LT
D =2°48'31"
T =709.47'
L =1365.55'
R =2040.00'
PC=684+58.36"B"
DB=N45°59'51"W

4 TLE - GRADING 0.313 ACRES

S00°57'52"E
89.03'
RW TO ALI

S00°57'52"E
67.16'
ALI TO RW

N01°27'54"W
178.60'
RW TO ALI

R=N03°14'10"W

LOT 2 CSM 11915
VOL. 73 PG. 122
DOC. 4236726

FRACTIONAL NE- NW

FRACTIONAL NW- NE

FRACTIONAL NW- NW

LOT 1 CSM 11915
VOL. 73 PG. 122
DOC. 4236726

EXISTING IRON PIPES

PT #	Y	X
IP 354	463482.360	907046.570

5"FD"

1/16 LINE

FADNESS ROAD

SEE SHEET 4.01

33'

33'

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
202	WISCONSIN POWER AND LIGHT COMPANY, LLC (ELECTRIC)	RELEASE OF RIGHTS
203	WISCONSIN POWER AND LIGHT COMPANY, LLC (GAS)	RELEASE OF RIGHTS
221	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS

202 WISCONSIN POWER AND LIGHT COMPANY, LLC (ELECTRIC)
VOL. 125 PG. 390 DOC. 1247541 - PARCEL 4

203 WISCONSIN POWER AND LIGHT COMPANY, LLC (GAS)
VOL. 10042 PG. 20-22 DOC. 2019457 - PARCEL 4

221 FRONTIER COMMUNICATIONS OF WI LLC
VOL. 133 PG.113 DOC. 1250241 - PARCEL 4
VOL. 8985 PG. 88 DOC. 1973146 - PARCEL 4

LOCATION SKETCH NOT TO SCALE
END PROJECT
SHEET LOCATION
BEGIN PROJECT
COTTAGE GROVE
CHRISTIANA

1/4 LINE
STA 712+43.34"B"

N00°57'52"W
2239.59'
MON TO RW

1/16 LINE P.L.

SE- NW

CHRISTIANA

FOUND ALUMINUM MONUMENT
Y = 461078.462
X = 907405.118

GN

SCALE, FEET
0 100 200

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 5068370 FOR ADDITIONAL INFORMATION.

emcs inc

I, KEVIN C. BOYER, 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 3070-00-23-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

(SIGNATURE) Kevin C. Boyer DATE 5/29/2014
(PRINTED NAME) KEVIN C. BOYER
(REGISTRATION NUMBER) S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SW REGION OFFICE.

(SIGNATURE) David R. Miller DATE 5/29/2014
(PRINTED NAME) DAVID R. MILLER

4

3070-00-23-4.03
PLOT SCALE : 1:100
PLOT NAME :
PLOT BY : bjl
PLOT DATE : $DATE$
FILE NAME : $FILE$
APPRAISAL PLAT DATE : 05/29/2014

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE DANE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 3070-00-23 - 4.04

THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33. ALSO THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 34. ALL BEING LOCATED IN T 7 N, R 12 E, TOWN OF DEERFIELD, DANE COUNTY, WISCONSIN.

RELOCATION ORDER STH 73, IH 39 TO COLUMBUS
(FADNESS ROAD TO LONDON ROAD)

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), 84.09, AND 84.30 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.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR USH 12-18 ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-22, 3082-02-21, AND CSM 10704.
EXISTING HIGHWAY RIGHT OF WAY FOR SHAUL LANE ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-22, AND 3082-02-21.
EXISTING HIGHWAY RIGHT OF WAY FOR MIKKLESON FARM DRIVE ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22.

EXISTING ACCESS CONTROL FOR USH 12-8 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.

FOR THE LATEST ACCESS CONTROL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5075135
06/10/2014 11:36 AM
Trans. Fee:
Exempt #:
Rec. Fee: 25.00
Pages: 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3070-00-23-4.04
AMENDMENT NO:

315

3070-00-23-4.04

PLOT SCALE : 1:100

PLOT NAME :

PLOT BY : bjl

PLOT DATE : $DATE$

FILE NAME : $FILE$
APPRAISAL PLAT DATE : 05/23/2014

R/W STATION & OFFSET TABLE

400	610+67.09	142.97'	424	318+03.93"SH"	33.07'
401	613+00.00	163.00'	425	317+23.98"SH"	33.38'
402	616+00.00	165.00'	428	318+01.58"SH"	32.92'
403	618+00.00	145.00'	IP 429	318+03.32"SH"	32.92'
404	620+00.00	100.00'	IP 430	318+08.75"SH"	32.97'
405	622+00.52	75.62'	431	321+14.93"SH"	131.79'
406	622+19.52	99.88'	432	321+55.93"SH"	101.15'
IP 470	622+20.02	209.19'	433	321+77.36"SH"	34.50'
IP 471	622+77.03	210.28'	434	322+74.47"SH"	34.34'
408	622+80.89	100.87'	435	325+37.85"SH"	24.79'
409	623+00.00	75.00'	436	326+36.92"SH"	23.89'
410	624+15.14	80.29'	437	327+35.78"SH"	26.45'
411	624+40.11	106.66'	438	328+00.00"SH"	42.88'
417	665+99.46"B"	127.87'	439	328+42.96"SH"	109.14'
IP 472	667+01.71"B"	122.10'	440	329+33.55"SH"	122.88'
IP 473	670+01.71"B"	137.78'	444	330+26.53"SH"	87.19'
418	675+01.71"B"	149.66'	445	330+26.49"SH"	86.25'
IP 474	678+01.55"B"	176.47'	446	330+28.27"SH"	86.52'
419	328+70.53"SH"	46.60'	447	683+63.70"B"	166.11'
420	327+38.60"SH"	39.50'	448	684+42.10"B"	151.57'
421	326+37.48"SH"	42.11'	451	681+61.66"B"	142.41'
422	325+36.33"SH"	41.20'	452	679+20.00"B"	135.00'
IP 475	322+76.38"SH"	31.63'	453	679+24.11"B"	353.00'
423	318+09.52"SH"	33.03'	454	679+61.07"B"	353.00'

R/W COURSE TABLE

400-401	N 50°54'46" W	233.77'	423-424	SEE CURVE DATA ON SHEET
401-402	N 40°01'53" W	335.81'	424-425	N 52°06'32" W 79.88'
402-403	N 23°49'27" W	223.99'	428-IP 429	S 52°06'32" E 1.78'
403-404	N 08°41'47" W	222.78'	IP 429-IP 430	SEE CURVE DATA ON SHEET
404-405	N 05°11'38" W	214.94'	IP 430-431	S 58°02'34" E 346.57'
405-406	N 57°06'25" W	31.60'	431-432	S 02°49'04" W 55.52'
406-IP 470	S 83°45'09" W	109.32'	432-433	S 42°14'59" W 70.52'
IP 471-408	N 83°45'09" E	109.49'	433-434	SEE CURVE DATA ON SHEET
408-409	N 48°16'43" E	32.93'	434-435	S 19°45'15" E 263.55'
409-410	N 03°12'29" W	120.73'	435-436	S 21°18'41" E 99.08'
410-411	N 45°33'20" W	36.32'	436-437	S 23°18'41" E 98.89'
417-IP 472	S 42°45'53" E	102.42'	437-438	S 36°10'40" E 66.29'
IP 472-IP 473	S 48°59'24" E	300.41'	438-439	S 78°52'27" E 78.97'
	RECORDED AS (N 49°23'12" W)		439-440	S 30°27'11" E 91.62'
IP 473-418	S 47°21'30" E	500.14'	440-444	S 00°49'58" E 99.60'
418-IP 474	S 51°06'23" E	301.03'	444-445	S 70°38'02" W 0.94'
IP 474-419	S 40°06'16" E	190.86'	445-446	S 30°40'36" E 1.80'
419-420	N 18°44'51" W	132.12'	446-447	S 30°40'36" E 180.29'
420-421	N 23°18'41" W	101.15'	447-448	SEE CURVE DATA ON SHEET
421-422	N 21°18'41" W	101.15'	451-452	N 44°14'25" W 241.77'
422-IP 475	N 19°43'24" W	260.13'	452-453	S 42°55'21" W 218.04'
IP 475-423	SEE CURVE DATA ON SHEET		453-454	S 45°59'51" E 36.96

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 INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
3	JOAN E. SHAUL AND KIMBERLY A. SHAUL, OR THEIR SUCCESSORS, AS TRUSTEES OF THE DONALD AND JOAN SHAUL REVOCABLE LIVING TRUST DATED 01/26/07	FEE/AR	15.932	0.700	16.632	---
9	ARTHUR M. MIKKELSON & ALYCE S. MIKKELSON	FEE/AR	2.294	---	2.294	---
24	SHAWN K. SIMONSON AND CHRISTINE M. SIMONSON	TLE	---	---	---	0.046

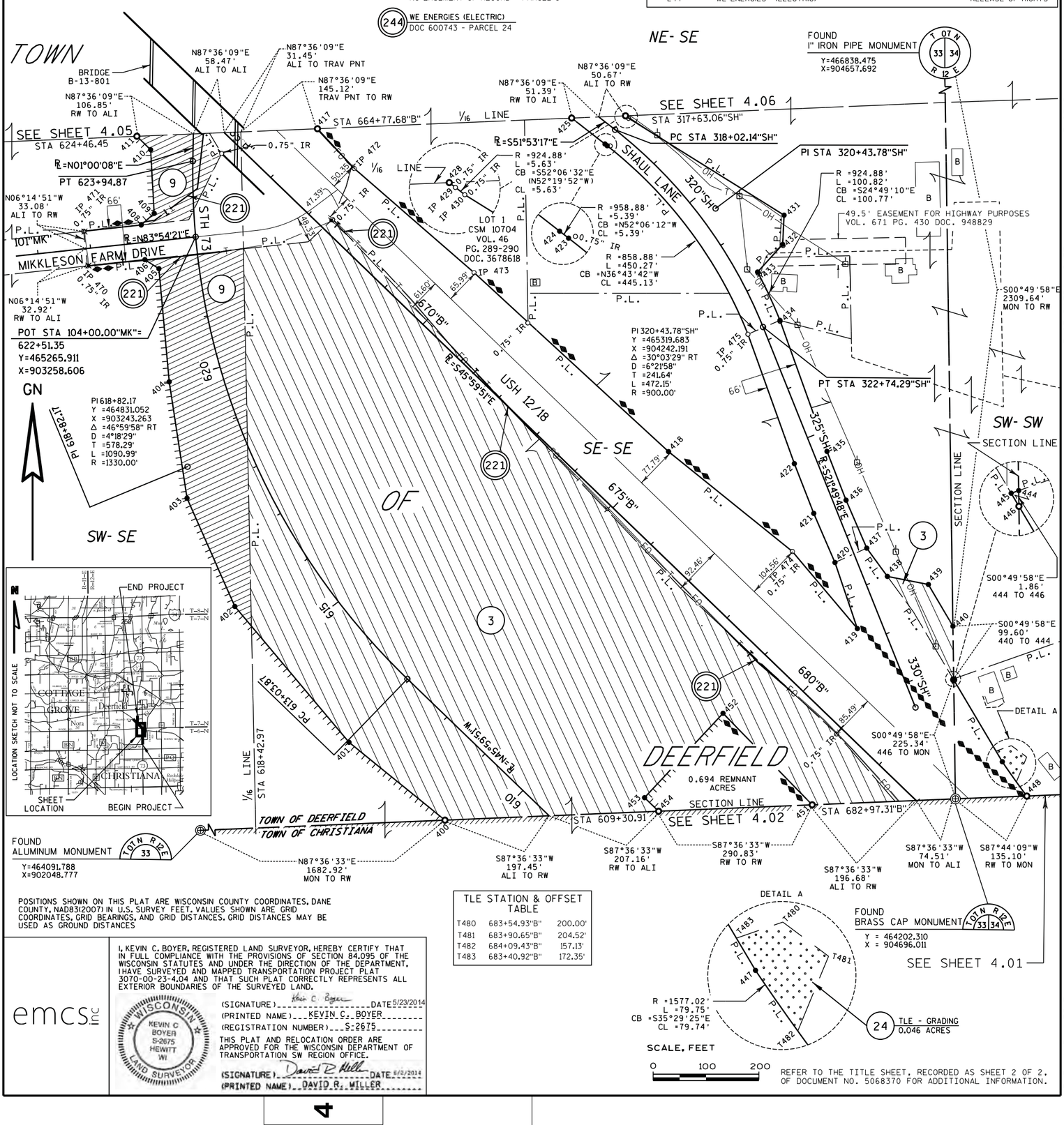
ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
221	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS
244	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

(221) FRONTIER COMMUNICATIONS OF WI LLC
VOL. 8985 PG. 89 DOC. 1973147 - PARCEL 3, 24
VOL. 9089 PG. 002 DOC. 1977808 - PARCEL 24
NO EASEMENT OF RECORD - PARCEL 9

(244) WE ENERGIES (ELECTRIC)
DOC 600743 - PARCEL 24



TLE STATION & OFFSET TABLE

T480	683+54.93"B"	200.00'
T481	683+90.65"B"	204.52'
T482	684+09.43"B"	157.13'
T483	683+40.92"B"	172.35'

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83(2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

emcs inc

I, KEVIN C. BOYER, 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 3070-00-23-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

(SIGNATURE) Kevin C. Boyer DATE 5/23/2014
(PRINTED NAME) KEVIN C. BOYER
(REGISTRATION NUMBER) S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SW REGION OFFICE.

(SIGNATURE) David R. Miller DATE 6/2/2014
(PRINTED NAME) DAVID R. MILLER

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 5068370 FOR ADDITIONAL INFORMATION.

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE DANE COUNTY REGISTER OF DEEDS OFFICE

4

TRANSPORTATION PROJECT PLAT NO: 3070-00-23 - 4.05

THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33, T 7 N, R 12 E, TOWN OF DEERFIELD, DANE COUNTY, WISCONSIN.

RELOCATION ORDER STH 73, IH 39 TO COLUMBUS (FADNESS ROAD TO LONDON ROAD)

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), 84.09, AND 84.30 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.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR USH 12-18 ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22 AND 3070-02-21.
EXISTING HIGHWAY RIGHT OF WAY FOR STH 73 ESTABLISHED FROM PREVIOUS PROJECTS 3080-00-22 AND 3070-02-21.

EXISTING ACCESS CONTROL FOR HWY 12-18 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECTS 3080-00-22.
EXISTING ACCESS CONTROL FOR HWY 73 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECTS 3080-00-22 AND 3070-02-21.

FOR THE LATEST ACCESS CONTROL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83(2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

R/W COURSE TABLE		
505-506	N 45°33'20" W	613.86'
506-507	N 42°06'22" W	1036.70'
507-508	N 83°27'03" W	38.52'

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5075136
06/10/2014 11:43 AM
Trans. Fee:
Exempt #:
Rec. Fee: 25.00
Pages: 1

316

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3070-00-23-4.05
AMENDMENT NO:

UTILITY SCHEDULE & INTERESTS REQUIRED		
UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
214	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
221	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS
244	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

(214) CHARTER COMMUNICATIONS
VOL. 15287 PG. 17 DOC. 2241736 - PARCEL 11

(221) FRONTIER COMMUNICATIONS OF WI LLC
VOL. 15287 PG. 17 DOC. 2241736 - PARCEL 11
VOL. 138 PG. 217 DOC. 1251956 - PARCEL 11
NO EASEMENT OF RECORD - PARCEL 9

(244) WE ENERGIES (ELECTRIC)
VOL. 15287 PG. 17 DOC. 2241736 - PARCEL 11

R/W STATION & OFFSET TABLE		
505	663+63.68"B"	119.72'
506	657+50.00"B"	115.00'
507	647+19.00"B"	82.40'
508	646+89.69"B"	107.39'
511	2003+04.89"JB"	237.69'
513	2004+33.75"JB"	115.00'
524	637+65.84	8.44'

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 INTERSTS TO THE DEPARTMENT.					
			R/W ACRES REQUIRED		
PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	NEW	EXISTING	TOTAL
9	ARTHUR M. MIKKELSON & ALYCE S. MIKKELSON	FEE	3.252	---	3.252
11	EUGENE F. STARK & MARGARET M. STARK ADAMS OUTDOOR ADVERTISING	FEE	3.471	---	3.471
	ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED				

SCHEDULE OF SIGN STRUCTURE		
SIGN NUMBER	SIGN OWNER	OASIS NUMBER
11-1	ADAMS OUTDOOR ADVERTISING	17534
11-2	ADAMS OUTDOOR ADVERTISING	19344

CALCULATED POSITION
Y=466613.025
X=899287.667

FOUND ALUMINUM MONUMENT
Y=469386.880
X=901898.474

N01°37'33"W 2662.15' TRAV PNT TO MON

N87°35'45"E 83.89' TRAV PNT TO ALI

N87°35'45"E 295.03'

N87°35'45"E 2393.68'

N01°37'33"W 66.11' RW TO TRAV PNT

FOUND ALUMINUM MEANDER MONUMENT
Y=466625.400
X=899582.437

COMPUTED
Y=466725.806
X=901974.010

N87°35'45"E 385.00' ALI TO RW

N87°35'45"E 177.93' RW TO RW

N87°35'45"E 166.78' RW TO TAN

POINT 803 SHEET 4.08

TAN. RL="JB" N44°00'09"E 51.72' TRAV PNT TO PI

SW- NE

PI STA 2006+06.26"JB"

N87°35'45"E 482.44' TAN TO RW

SEE SHEET 4.07
STA 646+94.67"B"

SEE SHEET 4.08
STA 2005+85.52"JB"
STA 637+66.34

PC STA 2004+44.95"JB"

POINT 727 SHEET 4.07

245.80'

R=S42°59'51"E 650.00'B'

95.95'

PC STA 651+08.58"B"

R=N44°00'09"E

285.01'

305.96'

TAN. RL="JB" N44°00'09"E 109.60' PC TO TRAV PNT

30' INGRESS & EGRESS EASEMENT DOC. 2831941

USH 12/18

97.74'

NW- SE

EXISTING RL USH 12/18 3080-00-22

POT STA 651+98.50"B"=2000+00.00"JB"
Y=466361.046
X=902401.659

GEODETIC MONUMENT DF9638

PI STA 654+38.52"B"

PI STA 657+68.32"B"

655'B'

660'B'

625

630

635

R=N0°00'08"E

45.43

N88°17'15"E 0.98' ALI TO RW

S01°13'45"E 1312.22' TRAV PNT ALI TO RW

SEE SHEET 4.06

STH 73

NE- SW

NE- SE

OF

TOWN

DEERFIELD

SEE SHEET 4.07

N01°37'33"W 2568.97' MON TO RW

1/4 LINE

P.L.

GN

SCALE, FEET
0 100 200

LOCATION SKETCH NOT TO SCALE
END PROJECT
BEGIN PROJECT
SHEET LOCATION
COTTAGE GROVE
DEERFIELD
CHRISTIANA

PI 654+38.52"B"
Y =466185.280
X =902565.110
Δ =03°00'00" LT
D =0°27'17"
T =329.94'
L =659.73'
R =12600.00

EXISTING RL "G" HWY 73 3080-00-22

0.75" IR

DETAIL A

STA 624+46.45
SEE SHEET 4.04

S87°36'09"W 106.85' ALI TO RW

S87°36'09"W 58.47' ALI TO ALI

S87°36'09"W 31.45' TRAV PNT TO ALI

BRIDGE B-13-801

FOUND ALUMINUM MONUMENT
Y=464091.788
X=902048.777

SW- SE

1/16 LINE

664'B'

POT STA 663+97.88"B"=
625+04.34
Y=465518.718
X=903255.292

PI 2006+06.26"JB"
Y =466797.13
X =902822.82
Δ =46°59'58" RT
D =15°26'37"
T =161.31'
L =304.33'
R =371.00'
DA=S88°59'52"E
PT=2007+49.28

N87°35'45"E 8.46' RW TO ALI

N87°35'45"E 38.52' ALI TO TRAV PNT

S01°13'45"E 5.64' RW TO ALI

R=S88°59'52"E

POT STA 300+00.00"SH"=
637+63.00
Y=466777.182
X=903277.306

S87°35'45"W 1343.02' MON TO TRAV PNT

FOUND 1" IRON PIPE
Y = 466838.475
X = 904657.692

I, KEVIN C. BOYER, 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 3070-00-23-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) Kevin C. Boyer DATE 6/05/2014
(PRINTED NAME) KEVIN C. BOYER
(REGISTRATION NUMBER) S-2675

KEVIN C BOYER S-2675 HEWITT WI — WISCONSIN — LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SW REGION OFFICE.

(SIGNATURE) David R. Miller DATE 6/9/2014
(PRINTED NAME) DAVID R. MILLER

emcs inc

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 5068370 FOR ADDITIONAL INFORMATION.

3070-00-23-4.05

PLOT SCALE : 1:100
PLOT NAME :
PLOT BY : bjl
PLOT DATE : $DATE$
FILE NAME : $FILE$
APPRAISAL PLAT DATE : 06/05/2014

4

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE DANE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 3070-00-23 - 4.06

THAT PART OF LOT 1 OF CSM 10704 LOCATED IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33. ALSO THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 33. ALL BEING LOCATED IN T 7 N, R 12 E, TOWN OF DEERFIELD, DANE COUNTY, WISCONSIN.

RELOCATION ORDER STH 73, IH 39 TO COLUMBUS
(FADNESS ROAD TO LONDON ROAD)

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), 84.09, AND 84.30 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.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR USH 12-18 ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22 AND CSM 10704
EXISTING HIGHWAY RIGHT OF WAY FOR SHAUL LANE ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22 AND CSM 10704.
EXISTING HIGHWAY RIGHT OF WAY FOR STH 73 ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22 AND CSM 10704.

EXISTING ACCESS CONTROL FOR HWY 12-18 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.
EXISTING ACCESS CONTROL FOR SHAUL LANE ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.
EXISTING ACCESS CONTROL FOR HWY 73 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECTS 3080-00-22 AND 3070-02-21

FOR THE LATEST ACCESS CONTROL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83(2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES. GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

TLE STATION & OFFSET TABLE		
T680	304+06.11"SH"	313.17'
T681	304+06.87"SH"	312.25'
T682	303+88.51"SH"	207.15'
T683	303+83.52"SH"	130.85'
T684	303+85.73"SH"	105.00'

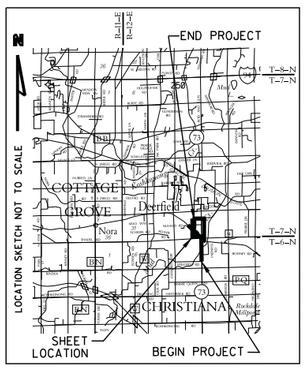
R/W COURSE TABLE		
601-602	SEE CURVE DATA ON SHEET	
602-603	S 00°01'23" E	281.78
603-604	S 22°48'13" W	107.70'
604-605	S 01°00'08" W	345.92'
605-606	S 08°01'28" E	114.40'
606-607	S 44°21'33" E	117.70'
607-626	S 52°06'32" W	325.38'
627-IP 651	N 52°06'32" W	246.87'
IP 651-IP 652	N 58°08'29" W	201.19'
	RECORDED AS (N 58°32'17" E)	
IP 652-618	N 54°48'55" W	271.86'
618-619	S 01°00'08" W	168.04'
619-620	S 22°49'52" W	26.93'
620-IP 656	S 01°04'17" E	113.86'
IP 656-628	S 42°45'53" E	174.24'
624-601	N 87°35'45" E	319.39'
624-614	S 12°40'03 "E	99.91'
614-613	N 88°25'12" E	150.06'
613-612	S 35°50'43" E	75.20'
612-611	S 08°57'26" W	216.77'
611-610	S 01°00'08" W	100.00'
610-609	S 24°00'53" E	82.76'
609-608	S 01°00'08" W	327.86'
608-IP 655	N 51°14'48" W	174.52'
IP 655-IP 654	N 19°04'22" W	208.17'
	RECORDED AS (N 19°29'08" W)	
IP 654-IP 653	N 11°51'40" E	216.53'
	RECORDED AS (N 11°26'54" E)	
IP 653-614	N 05°58'54" W	257.84'

SCHEDULE OF LANDS & INTERESTS REQUIRED

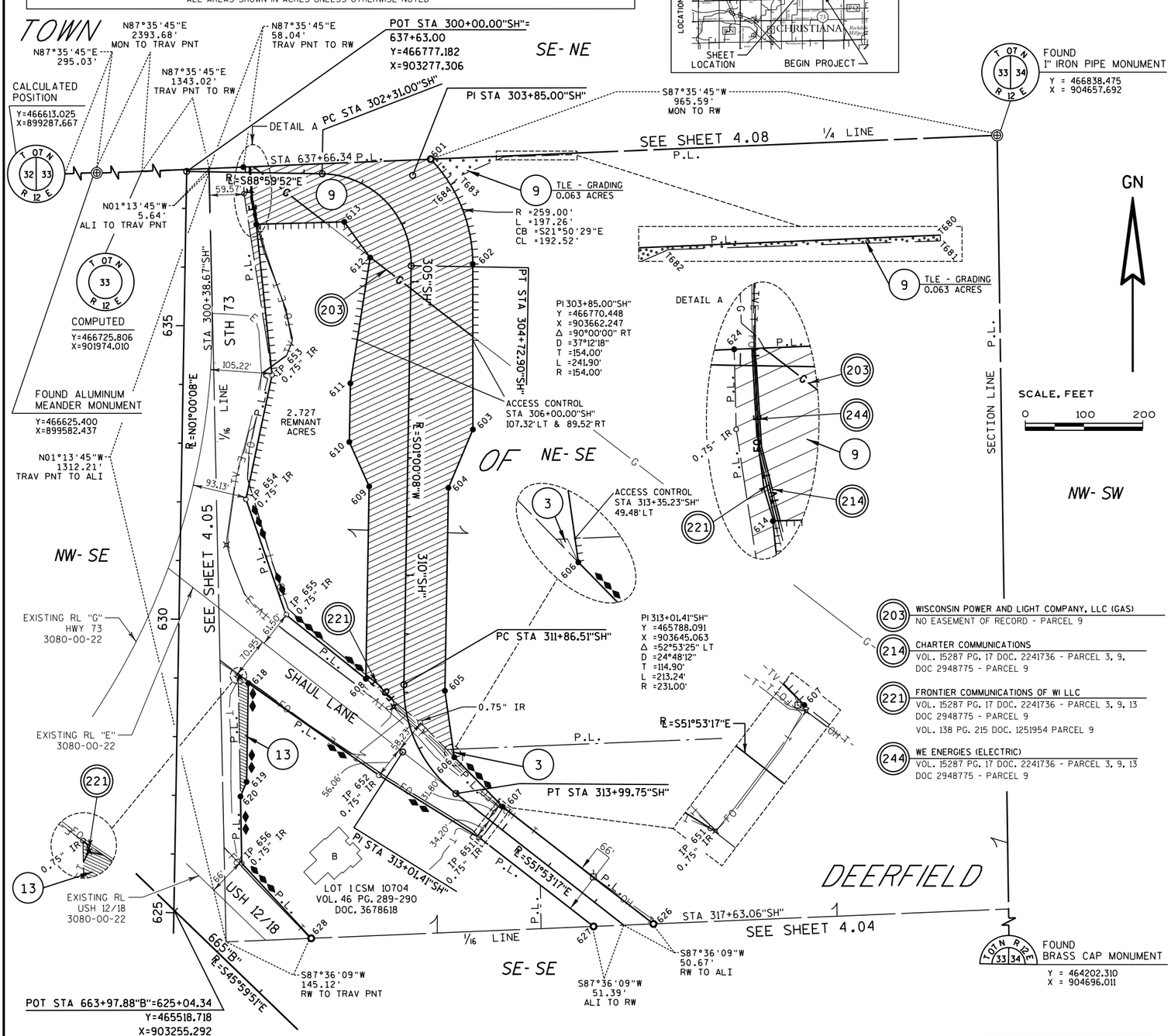
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
3	JOAN E. SHAUL AND KIMBERLY A. SHAUL, OR THEIR SUCCESSORS, AS TRUSTEES OF THE DONALD AND JOAN SHAUL REVOCABLE LIVING TRUST DATED 01/26/07	FEE/AR	0.002	---	0.002	---
9	ARTHUR M. MIKKELSON & ALYCE S. MIKKELSON	FEE/AR/TLE	4.050	---	4.050	0.063
13	DEERFIELD FINANCIAL CORPORATION	FEE	0.059	---	0.059	---

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED



R/W STATION & OFFSET TABLE		
601	303+52.86"SH"	105.00'
602	304+70.15"SH"	105.00'
603	307+50.00"SH"	110.00'
604	308+50.00"SH"	70.00'
605	312+00.00"SH"	69.73'
606	313+50.00"SH"	42.73'
607	314+76.20"SH"	31.66'
IP 651	314+77.12"SH"	34.33'
IP 652	313+06.55"SH"	81.33'
608	311+77.86"SH"	65.00'
609	308+50.00"SH"	65.00'
610	307+75.00"SH"	100.00'
611	306+75.00"SH"	100.00'
612	304+50.00"SH"	69.06'
613	303+06.62"SH"	71.49'
614	301+20.00"SH"	88.00'
IP 653	634+19.07	151.35'
IP 654	632+06.42	110.56'
IP 655	630+10.89	182.01'
618	628+93.04	120.00'
619	627+25.00	120.00'
620	627+00.00	109.99'
IP 656	664+25.49"B"	137.70'
628	665+99.46"B"	127.87
624	300+96.39"SH"	9.08'
626	318+01.58"SH"	32.92'
627	317+23.98"SH"	33.38'



UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
203	WISCONSIN POWER AND LIGHT COMPANY, LLC (GAS)	RELEASE OF RIGHTS
214	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
221	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS
244	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

EXISTING IRON PIPES		
PT #	Y	X
IP 650	465493.646	904073.396

emcs inc

I, KEVIN C. BOYER, 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 3070-00-23-4.06 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

(SIGNATURE) Kevin C. Boyer DATE 5/23/2014
(PRINTED NAME) KEVIN C. BOYER
(REGISTRATION NUMBER) S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SW REGION OFFICE.

(SIGNATURE) David R. Miller DATE 5/23/2014
(PRINTED NAME) DAVID R. MILLER

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 5068370 FOR ADDITIONAL INFORMATION.

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5075137
06/10/2014 11:44 AM
Trans. Fee:
Exempt #:
Rec. Fee: 25.00
Pages: 1

317

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3070-00-23-4.06
AMENDMENT NO:

3070-00-23-4.06

PLOT SCALE : 1:100
PLOT NAME : $
PLOT BY : bjl
PLOT DATE : $DATE$
FILE NAME : $FILE$
APPRAISAL PLAT DATE : 05/23/2014

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE DANE COUNTY REGISTER OF DEEDS OFFICE

4

TRANSPORTATION PROJECT PLAT NO: 3070-00-23 - 4.07

THAT PART OF NORTHEAST 1/4 OF THE NORTHWEST 1/4, THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4, AND THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33, T 7 N, R 12 E, TOWN OF DEERFIELD, DANE COUNTY, WISCONSIN.

RELOCATION ORDER STH 73, IH 39 TO COLUMBUS
(FADNESS ROAD TO LONDON ROAD)

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), 84.09, AND 84.30 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.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR USH 12-18 ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22.
EXISTING HIGHWAY RIGHT OF WAY FOR NULAND ROAD ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22

EXISTING ACCESS CONTROL FOR HWY 12-18 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.
EXISTING ACCESS CONTROL FOR NULAND ROAD ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.

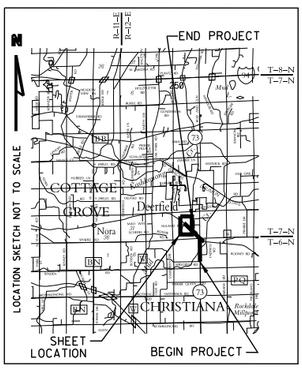
FOR THE LATEST ACCESS CONTROL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83(2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

UTILITY SCHEDULE & INTERESTS REQUIRED		
UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
221	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS
244	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

(221) FRONTIER COMMUNICATIONS OF WI LLC
VOL. 138 PAGE. 200 DOC. 1251939 - PARCEL 14

(244) WE ENERGIES (ELECTRIC)
NO EASEMENT OF RECORD - PARCEL 14



TLE STATION & OFFSET TABLE		
T780	634+64.48"B"	97.43'
T781	630+00.06"B"	74.42'
T783	627+03.12"B"	104.10'
T784	630+99.67"B"	86.61'
T785	634+64.55"B"	110.25'
T788	628+39.50"B"	88.75'

R/W COURSE TABLE		
IP 750-703	N 87°36'03" E	214.66'
703-704	N 48°58'31" E	71.08'
704-705	N 06°25'51" W	46.19'
705-706	N 41°29'40" W	446.21'
706-707	N 46°18'50" W	194.61'
707-708	N 54°26'21" W	326.23'
708-IP 751	N 53°38'09" W	465.29'
IP 751-IP 754	N 61°34'11" W	170.95'
RECORDED AS (N 61°58'08" W)		
712-713	S 53°56'48" E	386.11'
713-IP 752	S 60°10'38" E	365.49'
IP 752-714	S 54°47'29" E	243.19'
714-715	S 48°14'08" E	310.09'
715-724	S 44°16'37" E	64.91'
724-725	S 55°50'02" E	327.47'
725-726	S 55°50'02" E	538.89'
726-727	S 52°47'10" E	40.74'
721-722	N 83°27'03" W	45.63'
722-IP 753	N 88°16'57" W	369.39'
728-729	S 55°50'02" E	140.14'
729-730	S 55°50'02" E	390.55'
730-731	S 87°35'45" W	140.66'
731-IP 755	N 44°11'15" W	234.11'
IP 755-IP 756	N 44°51'23" W	25.99
RECORDED AS (N 45°15'20" W		26.31)
IP 756-728	N 44°51'23" W	165.96'

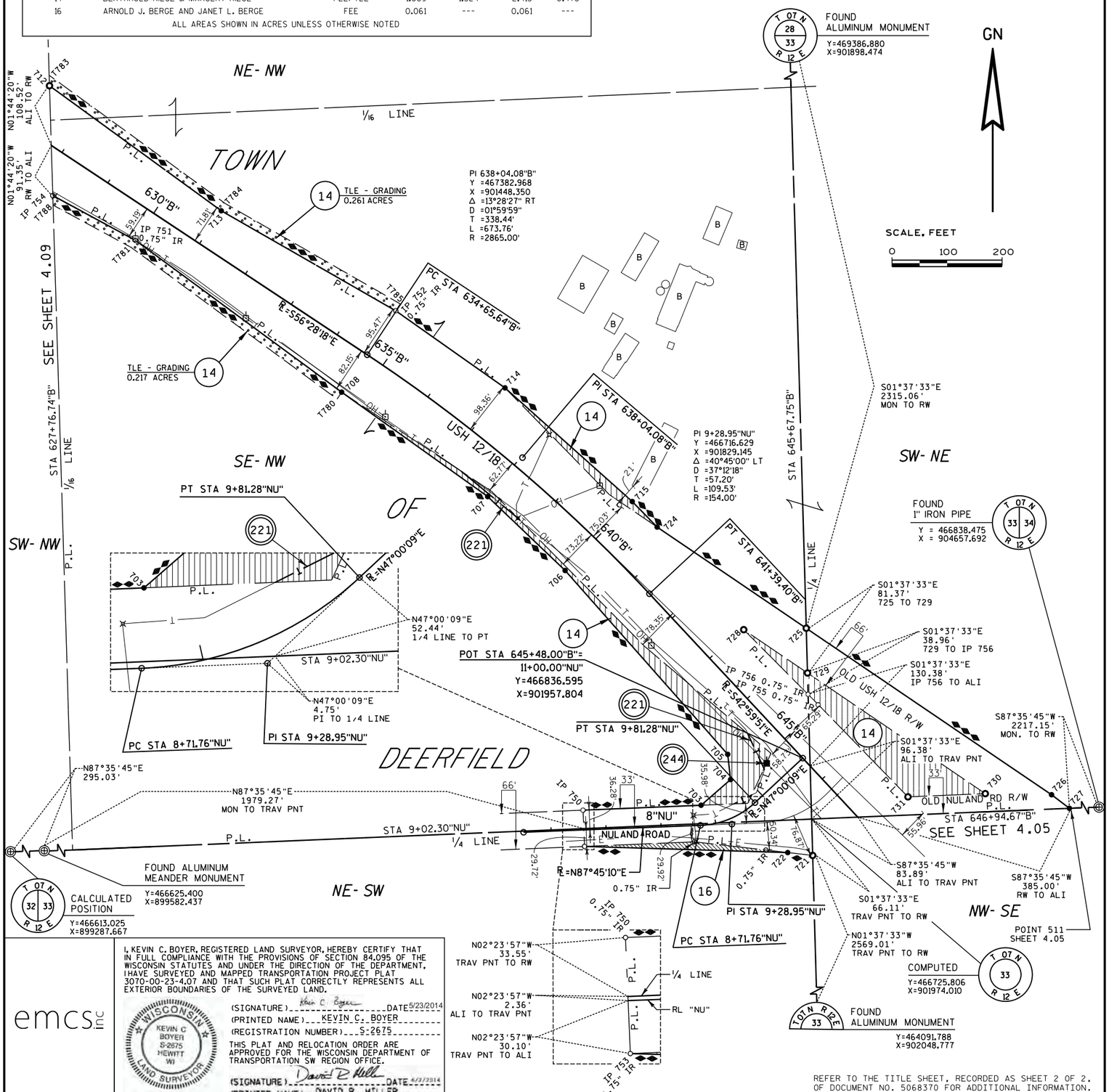
R/W STATION & OFFSET TABLE		
IP 750	6+59.57"NU"	35.90'
703	8+75.00"NU"	36.45'
704	9+75.00"NU"	60.83'
705	644+50.00"B"	95.00'
706	640+00.00"B"	80.00'
707	638+00.00"B"	75.00'
708	634+64.48"B"	82.41'
IP 751	629+99.76"B"	59.39'
IP 754	628+29.48"B"	74.58'
712	627+14.08"B"	88.60'
713	630+99.82"B"	71.59'
IP 752	634+64.55"B"	95.22'
714	636+99.89"B"	97.98'
715	640+00.00"B"	95.00'
721	646+89.69"B"	107.39'
722	646+54.97"B"	137.00'
IP 753	6+59.75"NU"	30.10'
724	640+62.83"B"	94.00'
725	643+79.61"B"	165.70'
726	649+05.03"B"	285.42'
727	649+45.18"B"	292.35'
728	643+04.04"B"	80.79'
729	644+40.67"B"	111.92'
730	648+21.47"B"	198.69'
731	647+29.94"B"	91.88'
IP 755	644+95.88"B"	87.01'
IP 756	644+69.91"B"	86.17'

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 INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
14	BERTHHOLD RIEGE & MARGERY RIEGE	FEE/TLE	1.089	1.324	2.413	0.478
16	ARNOLD J. BERGE AND JANET L. BERGE	FEE	0.061	---	0.061	---

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED



I, KEVIN C. BOYER, 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 3070-00-23-4.07 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) Kevin C. Boyer DATE 5/23/2014
(PRINTED NAME) KEVIN C. BOYER
(REGISTRATION NUMBER) S-2675

KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SW REGION OFFICE.

(SIGNATURE) David R. Miller DATE 5/23/2014
(PRINTED NAME) DAVID R. MILLER

emcs inc

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 5068370 FOR ADDITIONAL INFORMATION.

4

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS
DOCUMENT #
5075138
06/10/2014 11:48 AM
Trans. Fee:
Exempt #:
Rec. Fee: 25.00
Pages: 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3070-00-23-4.07
AMENDMENT NO:

318

3070-00-23-4.07

PLOT SCALE : 1:100
PLOT NAME :
PLOT BY : bjl
PLOT DATE : $DATE$
FILE NAME : $FILE$
APPRAISAL PLAT DATE : 05/23/2014

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE DANE COUNTY REGISTER OF DEEDS OFFICE

4

TRANSPORTATION PROJECT PLAT NO: 3070-00-23 - 4.08

THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, AND THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 33, T 7 N, R 12 E, TOWN OF DEERFIELD, DANE COUNTY, WISCONSIN.

RELOCATION ORDER STH 73, IH 39 TO COLUMBUS
(FADNESS ROAD TO LONDON ROAD)

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), 84.09, AND 84.30 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.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR STH 73 ESTABLISHED FROM PREVIOUS PROJECT 3070-02-21.

EXISTING ACCESS CONTROL FOR STH 73 ESTABLISHED FROM PREVIOUS RW PROJECT 3070-02-21.

FOR THE LATEST ACCESS CONTROL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83(2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES

KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5075139
06/10/2014 11:52 AM
Trans. Fee:
Exempt #:
Rec. Fee: 25.00
Pages: 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3070-00-23-4.08
AMENDMENT NO:

319

3070-00-23-4.08

PLOT SCALE : 1:100

PLOT NAME :

PLOT BY : bjl

PLOT DATE : $DATE$

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 INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
14	BERTHHOLD RIEGE & MARGERY RIEGE	FEE/AR	4.356	---	4.356	
18	SAMUEL D. GOTTLIEB	FEE/AR/TLE	1.668	---	1.668	0.435
19	WALTER J. & IRENE R. OLSON	FEE/TLE	0.114	---	0.114	0.017

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
203	WISCONSIN POWER AND LIGHT COMPANY, LLC (GAS)	RELEASE OF RIGHTS
214	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
221	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS
244	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

(203) WISCONSIN POWER AND LIGHT COMPANY, LLC (GAS)
VOL. 16116 PG. 23-24 DOC. 2269545 - PARCEL 18, 19

(214) CHARTER COMMUNICATIONS
VOL. 15287 PG. 19-20 DOC. 2241737 - PARCEL 18, 19

(221) FRONTIER COMMUNICATIONS OF WI LLC
VOL. 15287 PG. 19-20 DOC. 2241737 - PARCEL 18, 19
VOL. 138 PG. 190 DOC. 1251929 - PARCEL 18, 19
VOL. 138 PG. 200 DOC. 1251939 - PARCEL 14

(244) WE ENERGIES (ELECTRIC)
VOL. 15287 PG. 19-20 DOC. 2241737 - PARCEL 18, 19

R/W COURSE TABLE

803-804	N 44°00'09" E	11.19'
804-805	SEE CURVE DATA ON SHEET	
805-806	N 83°13'37" E	180.86'
806-807	N 09°44'54" E	394.59'
807-808	N 00°55'58" E	695.23'
808-809	N 04°15'12" E	301.50'
809-810	N 00°16'52" W	237.93'
813-814	S 01°26'46" E	287.86'
814-815	N 88°33'15" E	10.17'
815-816	S 04°13'35" E	653.24'
816-817	S 00°23'11" W	201.75'
817-818	S 89°08'10" E	15.01'
818-819	S 01°46'46" E	85.09'
819-820	S 89°08'10" E	15.02'
820-821	S 01°46'46" E	65.41'
821-822	N 88°59'52" W	15.02'
822-823	S 01°46'46" E	366.21'
823-824	S 80°16'19" E	126.72'
824-825	SEE CURVE DATA ON SHEET	

R/W STATION & OFFSET TABLE

803	2004+33.75"JB"	115.00'
804	2004+44.95"JB"	115.00'
805	2006+98.93"JB"	115.00'
806	2008+62.73"JB"	135.00'
807	643+00.00	120.00'
808	650+00.00	105.00'
809	653+00.00	75.00'
810	655+37.88	70.12'
813	655+37.86	59.88'
814	652+50.00	59.83'
815	652+50.00	70.00'
816	646+00.00	105.00'
817	644+00.00	105.00'
818	644+00.00	120.01'
819	643+15.30	124.10'
820	643+15.34	139.12'
821	642+50.00	142.29'
822	642+50.00	127.27'
823	301+45.04"SH"	121.23
824	302+54.45"SH"	105.00'
825	303+52.86"SH"	105.00'

TLE STATION & OFFSET TABLE

T880	653+12.07	81.05'
T881	652+78.17	81.05'
T882	652+78.17	59.83'
T883	653+12.07	59.84'
T884	302+89.97"SH"	105.00'
T885	303+06.88"SH"	146.81'
T886	303+20.47"SH"	175.27'
T887	303+78.50"SH"	262.85'
T888	303+92.16"SH"	333.00'
T889	304+06.11"SH"	313.17'

N88°33'14"E 70.12' RW TO ALI
N88°33'14"E 59.88' ALI TO RW
N88°33'14"E 0.91' ALI TO 1/16 LINE
R=N01°27'26"W
1/16 LINE
NW- NE
NE- NE
SW- NE
SE- NE
TOWN
OF
STA 650+91.79
1/16 LINE
PT 648+86.15
PC 643+71.06
PI 646+28.65
Y =467642.696
X =903292.447
Δ =02°27'34" LT
D =00°28'39"
T =257.59'
L =515.09'
R =12000.00'
ACCESS CONTROL STA 649+62.60 83.90' RT
33' RIGHT OF WAY ACCESS EASEMENT DOC. 2891702
PI 2006+06.26"JB"
Y =466797.134
X =902822.823
Δ =46°59'58" RT
D =15°26'37"
T =161.31'
L =304.33'
R =371.00'
DB =N44°00'09"W
PC 2004+44.95"JB"
PC STA 302+31.00"SH"
R =259.00'
L =165.50'
CB =S61°57'57"E
CL =162.70'
PI STA 303+85.00"SH"
PI STA 303+85.00"SH"
Y =466770.448
X =903662.247
Δ =90°00'00" RT
D =37°12'18"
T =154.00'
L =241.90'
R =154.00'
PT STA 304+72.90"SH"
R=S01°00'08"W
R=S88°59'52"E
R=S88°59'52"E
STA 637+66.34"
SEE SHEET 4.06
SEE SHEET 4.05
STA 2005+85.52"JB"
PI STA 2006+06.26"JB"
PT STA 2007+49.28"JB"
ACCESS CONTROL STA 2003+04.89"JB" 237.69 LT
R =486.00'
L =332.71'
CB =N63°36'53"E
CL =326.25'
2010"JB"
TAN. RL="JB" N44°00'09"E 51.72' TRAV PNT TO PI
POT STA 300+00.00"B"/637+63.00
Y=466777.182
X=903277.306
POT STA 2010+42.73"JB"/637+75.00
Y=466789.180
X=903277.516
S87°35'45"W 490.90' ALI TO TAN
S87°35'45"W 166.78' TAN TO RW
S87°35'45"W 415.95' RW TO ALI
S87°35'45"W 965.59' MON TO RW
N87°35'45"E 646.82' TRAV PNT TO RW
N01°37'33"W 2662.15' TRAV PNT TO MON
N87°35'45"E 2393.68'
N87°35'45"E 295.03'
FOUND ALUMINUM MONUMENT
Y=469386.880
X=901898.474
CALCULATED POSITION
Y=466613.025
X=899287.667
FOUND ALUMINUM MEANDER MONUMENT
Y=466625.400
X=899582.437
COMPUTED
Y=466725.806
X=901974.010
POINT 511 SHEET 4.05
POINT 513 SHEET 4.05
OLD NULAND RD
OLD USH 12/18
66'
33'
TLE - GRADING 0.017 ACRES
ACCESS CONTROL STA 649+62.60 83.90' RT
END PROJECT
BEGIN PROJECT
SHEET LOCATION
LOCATION SKETCH NOT TO SCALE
COTTAGE GROVE
Deerfield
CHRISTIANA
GN
SCALE, FEET
0 100 200
FOUND 1" IRON PIPE
Y = 466838.475
X = 904657.692

I, KEVIN C. BOYER, 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 3070-00-23-4.08 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 5/23/2014
(PRINTED NAME) KEVIN C. BOYER
(REGISTRATION NUMBER) S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SW REGION OFFICE.

(SIGNATURE) _____ DATE 5/27/2014
(PRINTED NAME) DAVID R. MILLER

emcs inc

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 5068370 FOR ADDITIONAL INFORMATION.

FILE NAME : $FILE$
APPRAISAL PLAT DATE : 05/23/2014

4

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE DANE COUNTY REGISTER OF DEEDS OFFICE

4

TRANSPORTATION PROJECT PLAT NO: 3070-00-23 - 4.09

THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 33, T 7 N, R 12 E, TOWN OF DEERFIELD, DANE COUNTY, WISCONSIN.

RELOCATION ORDER STH 73, IH 39 TO COLUMBUS
(FADNESS ROAD TO LONDON ROAD)

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.

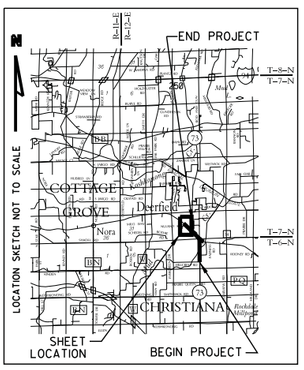
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30 WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
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.

EXISTING HIGHWAY RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
EXISTING HIGHWAY RIGHT OF WAY FOR USH 12-18 ESTABLISHED FROM PREVIOUS PROJECT 3080-00-22.

EXISTING ACCESS CONTROL FOR HWY 12-18 ESTABLISHED FROM PREVIOUS RIGHT OF WAY PROJECT 3080-00-22.

FOR THE LATEST ACCESS CONTROL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN MADISON.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83(2007) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES



KRISTI CHLEBOWSKI
DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
5075140
06/10/2014 11:52 AM
Trans. Fee:
Exempt #:
Rec. Fee: 25.00
Pages: 1

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 3070-00-23-4.09
AMENDMENT NO:

320

3070-00-23-4.09

UTILITY SCHEDULE & INTERESTS REQUIRED

UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED
221	FRONTIER COMMUNICATIONS OF WI LLC	RELEASE OF RIGHTS
244	WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

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 INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS(S)	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
22	LAND CONTRACT, JOAN I. HALVERSON, VENDOR, AND PERRY J. AND JULIE A. HALVERSON, PURCHASER	TLE	---	---	---	0.444
25	JOAN I. HALVERSON	TLE	---	---	---	0.075

ALL AREAS SHOWN IN ACRES UNLESS OTHERWISE NOTED

(221) FRONTIER COMMUNICATIONS OF WI LLC
VOL. 138 PAGE. 208 DOC. 1251947 - PARCEL 22

(244) WE ENERGIES (ELECTRIC)
NO EASEMENT OF RECORD - PARCEL 22

R/W COURSE TABLE

IP 956-906	S 54°42'05" E	539.12'
906-IP 957	S 55°59'05" E	500.02'
IP 957-IP 958	S 58°14'28" E	300.14'
	RECORDED AS (N 58°38'25" W)	
IP 958-IP 959	S 58°33'20" E	300.20'
	RECORDED AS (N 58°57'17" W)	
IP 959-907	S 53°56'48" E	14.28'
IP 950-IP 952	N 61°34'11" W	130.24'
	RECORDED AS (N 61°58'08" W)	
IP 952-IP 953	N 53°24'00" W	400.59'
	RECORDED AS (N 53°47'57" W)	
IP 953-IP 954	N 55°08'49" W	700.19'
	RECORDED AS (N 55°32'56" W)	
IP 954-IP 955	N 65°12'26" W	401.79'
	RECORDED AS (N 65°36'23" W)	

R/W STATION & OFFSET TABLE

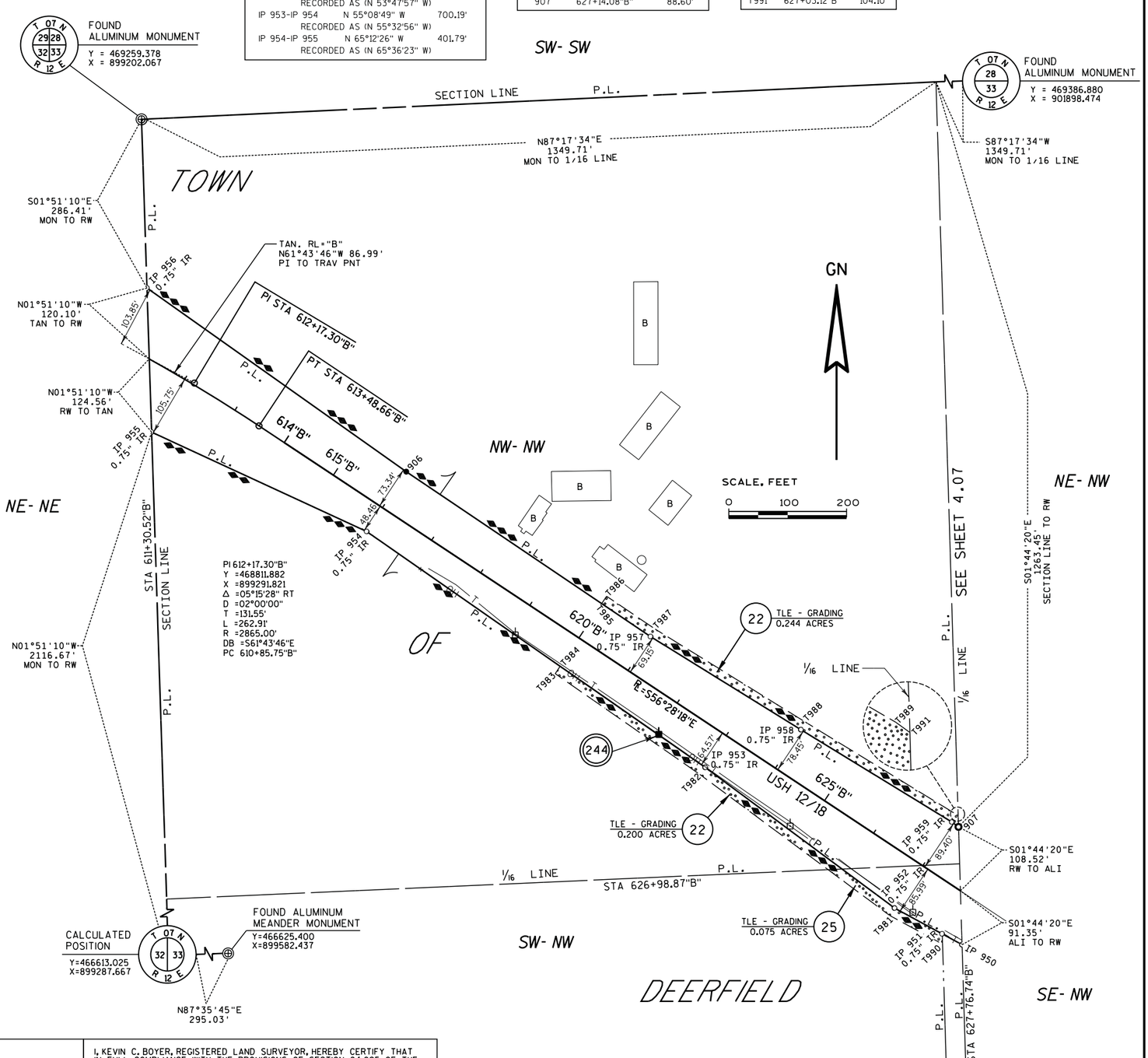
IP 950	628+29.48"B"	74.58'
IP 952	626+99.76"B"	86.15'
IP 953	622+99.75"B"	64.69'
IP 954	615+99.75"B"	48.50'
IP 955	611+96.95"B"	105.66'
IP 956	610+70.59"B"	103.92'
906	615+99.82"B"	73.29'
IP 957	620+99.82"B"	69.05'
IP 958	623+99.82"B"	78.31'
IP 959	626+99.82"B"	89.23'
907	627+14.08"B"	88.60'

TLE STATION & OFFSET TABLE

T981	627+00.03"B"	101.19'
T982	622+99.17"B"	79.68'
T983	620+00.00"B"	72.76'
T984	620+00.00"B"	57.76'
T985	620+00.00"B"	69.89'
T986	620+00.00"B"	84.89'
T987	620+99.65"B"	84.05'
T988	623+99.32"B"	93.31'
T989	626+99.88"B"	104.24'
T990	628+01.48"B"	92.14'
T991	627+03.12"B"	104.10'

EXISTING IRON PIPES

PT #	Y	X
IP 951	467877.514	900560.727



I, KEVIN C. BOYER, 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 3070-00-23-4.09 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

emcs inc

WISCONSIN KEVIN C BOYER S-2675 HEWITT WI LAND SURVEYOR

(SIGNATURE) Kevin C. Boyer DATE 5/23/2014
(PRINTED NAME) KEVIN C. BOYER
(REGISTRATION NUMBER) S-2675

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SW REGION OFFICE.

(SIGNATURE) David R. Miller DATE 5/23/2014
(PRINTED NAME) DAVID R. MILLER

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, OF DOCUMENT NO. 5068370 FOR ADDITIONAL INFORMATION.

PLOT SCALE : 1:100
PLOT NAME :
PLOT BY : bjl
PLOT DATE : $DATE$
FILE NAME : $FILE$
APPRAISAL PLAT DATE : 05/23/2014

4

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
603	580+94, 72' RT	RR SPIKE	848.68
612	589+78, 145' RT	RR SPIKE IN 18" BOX ELDER	850.39
613	588+35, 21' RT	WIS D.O.T. ALUMN. DISC	851.42

N

EDWARD & JOANN KUBINA

DELINEATED WETLAND BOUNDARY

ALLIANT ENERGY (ELECTRIC)

PROJECT ID 3070-00-72 (WORK PREVIOUSLY COMPLETED BY OTHERS)

WIDOT

SLOPE INTERCEPT

SHAUL REV LIVING TR DONALD & JOAN

CONTROL POINT 507
Y=462431.803
X=904683.268
0.75" IRON ROD SET

STA 590+35 LT
CONSTRUCT FE

MATCH LINE STA 591+00

PT 582+20.15

PC 576+76.12

BH-3

STH 73

MB-3

N 2°08'14" W

BC2074-1

BC2074-2
BM 613

REMOVE EXISTING B-13-359
PROPOSED B-13-802 REQ'D

BM 603

CONTROL POINT 503
Y=461773.184
X=904863.387
0.75" IRON ROD SET
W/ BLUE EMCS CAP

BEGIN PROJECT
STA 584+25.00

SLOPE INTERCEPT

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

TLE

BM 612

MUD CREEK

CONTROL POINT 508
Y=462511.045
X=904805.445
0.75" IRON ROD SET

ERIK R AND KELLY L EKLOF

BYRON L & SHANNON L BUCHLI

DELINEATED WETLAND BOUNDARY

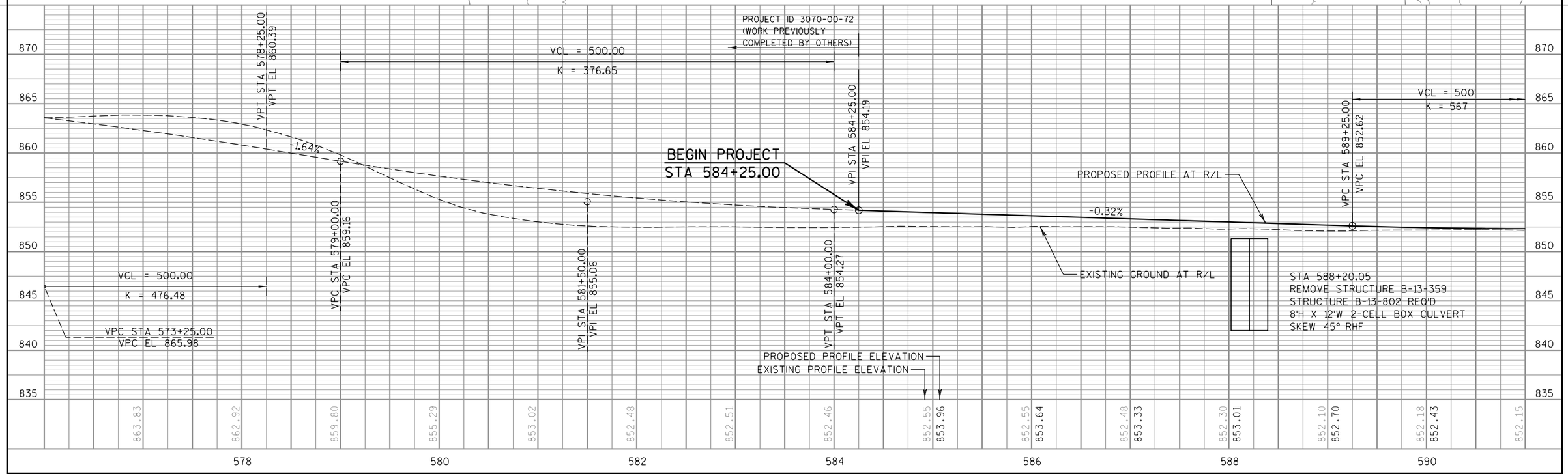
STA 587+10 - 593+50 LT
REMOVING GUARDRAIL

STA 587+40 - 593+00 RT
REMOVING GUARDRAIL

R/W

P.L.

5



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - STH 73	SHEET 321 E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050101_pp.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
604	596+19, 228' RT	CHISELED SQUARE	854.80

DRAINAGE DITCH

SHAUL REV LIVING TR DONALD & JOAN

STA 597+00 LT
CONSTRUCT FE
REMOVE 18" SMALL PIPE CULVERT
1-18" CMCP REQ'D

DELINEATED WETLAND BOUNDARY

MATCH LINE STA 603+50

CLEARING AND GRUBBING = ×
BORING LOCATION = ⊞

MATCH LINE STA 591+00

TLE

PC 593+39.88

R/W

BC3095-2

N 2°08'14" W

ALLIANT ENERGY
(ELECTRIC)

SLOPE INTERCEPT

STH 73

BH-40

BC3095-1

BH-39

EXTEND
C-13-105

STA 599+50 RT
CONSTRUCT FE
1-18"CMCP REQ'D

SHAUL REV LIVING TR DONALD & JOAN

STA 587+10 - 593+50 LT
REMOVING GUARDRAIL

STA 587+40 - 593+00 RT
REMOVING GUARDRAIL

MAX E & RUTH L
BARTH TR

DELINEATED WETLAND BOUNDARY

CONTROL POINT 504
Y=463167.034
X=904886.783
0.75" IRON ROD SET

BM 604

STA 596+53 RT
CONSTRUCT PE
REMOVE 18" SMALL PIPE CULVERT
1-24" CMCP REQ'D

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

EXISTING STH 73

VCL = 500'
K = 329

VCL = 500'
K = 567

LP STA 591+03.83
LP EL 852.33

VPT STA 591+75.00
VPI EL 851.83

VPT STA 594+25.00
VPT EL 853.24

VPC STA 596+50.00
VPC EL 854.52

VPI STA 599+00.00
VPI EL 855.93

VPT STA 601+50.00
VPT EL 861.15

PROPOSED PROFILE AT R/L

EXISTING GROUND AT R/L

0.57%

0.50%

1.71%

0.31%

2.09%

0.85%

STA 592+02.01
EXISTING STRUCTURE C-13-105
7'H X 8'W SINGLE CELL BOX CULVERT
EXTENSION REQ'D
SKEW 18° LHF

STA 594+00
EL 847.25

STA 595+20
EL 847.85

STA 596+00
EL 848.43

STA 597+71
EL 850.77

STA 598+00
EL 852.64

LT DITCH PROFILE

RT DITCH PROFILE

MARSH EXCAVATION

PROPOSED PROFILE ELEVATION

EXISTING PROFILE ELEVATION

852.15	852.33	851.98	852.42	852.00	852.67	852.01	853.11	851.76	853.67	850.69	854.23	851.00	854.84	853.70	855.71	855.46	856.88	855.89	858.36	855.99	860.14	856.45	862.19	858.26	864.27
592						594				596				598				600				602			

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - STH 73	SHEET 322	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050102_pp.dgn | PLOT DATE : 10/31/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

SHAUL REV LIVING TR DONALD & JOAN

STA 605+71
1-42" CPRC CLASS III REQ'D

R/W

SLOPE INTERCEPT

DELINEATED WETLAND BOUNDARY

MATCH LINE STA 603+50

PT 603+57.99

STA 609+49.11 =
STA 1000+00'JA'

PC 613+03.87

604 606 608 STH 73 610 612 614

BH-41

BH-42

BH-43

N 45°59'51" W

MATCH LINE STA 616+00

DELINEATED WETLAND BOUNDARY

SLOPE INTERCEPT

R/W

JUG RAMP A

1000'JA'

BH-58W

INFILTRATION BASIN

BH-69

SLOPE INTERCEPT

DO NOT REMOVE TREES

SHAUL REV LIVING TR DONALD & JOAN

VPC STA 606+00.00
VPC EL 870.53

PROPOSED PROFILE AT R/L

VPI STA 615+00.00
VPI EL 889.30

VCL = 1800'
K = 602

2.09%

EXISTING GROUND AT R/L

STA 603+80
EL 857.55

STA 605+71
1-42" CPRC CLASS III REQ'D
SKEW 0° RHF

STA 605+71
EL 852.50

-2.65%

1.04%

RT DITCH PROFILE

STA 610+50
EL 857.50

0.00%

STA 612+00
EL 857.50

1.87%

STA 613+50
EL 860.30

4.66%

RT DITCH PROFILE

MARSH EXCAVATION

PROPOSED PROFILE ELEVATION

EXISTING PROFILE ELEVATION

857.63	853.40	851.17	852.44	853.18	854.11	853.56	853.92	855.81	858.10	861.68	863.49	863.80
866.36	868.45	870.53	872.53	874.37	876.04	877.54	878.88	880.05	881.06	881.90	882.57	883.08

885 880 875 870 865 860 855 850

604 606 608 610 612 614 616

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - STH 73	SHEET 323	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050103_pp.dgn PLOT DATE : 10/31/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

5 5

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
605	625+16.195' RT	CHISELED SQUARE ON OUTFALL	888.40
606	626+46.205' RT	CHISELED SQUARE ON BACK OF CURB	893.45

CLEARING AND GRUBBING = X
BORING LOCATION = ⊞

CONTROL POINT 509
Y=465256.896
X=903040.326
0.75" IRON ROD SET

ASP PE

STA 622+50 LT
CONSTRUCT PE

ARTHUR M & ALYCE S MIKKELSON

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

R/W

B-13-801

B801-1

B801-2

B801-3W

BH-68

BH-44

DELINEATED WETLAND BOUNDARY

SLOPE INTERCEPT

STH 73

PT 623+94.87

STA 625+04.34 =
STA 663+97.88'B'

N 1°00'08" E

MATCH LINE STA 629+00

MATCH LINE STA 616+00

CONTROL POINT 510
Y=465254.949
X=903357.955
0.75" IRON ROD SET

USH 12/18

BM 606

BM 605

WE ENERGIES (ELECTRIC)

DEERFIELD FINANCIAL CORP

SHAUL LN

SHAUL REV LIVING TR DONALD & JOAN

B-13-801; SEE USH 12/18 SHEETS

HP STA 618+55.86
HP EL 883.62

EXISTING GROUND AT R/L

VPT STA 624+00.00
VPT EL 881.17

STA 617+00
EL 876.60

4.66%

0.75%

RT DITCH PROFILE

STA 619+00
EL 878.10

-0.50%

STA 621+00
EL 881.13

0.50%

STA 622+50
EL 881.88

LT DITCH PROFILE

STA 622+00
EL 876.60

PROPOSED PROFILE AT R/L

-0.90%

STA 626+00
EL 875.05

-0.57%

STA 628+00
EL 873.92

STA 628+17
EL 873.10

RT DITCH PROFILE

PROPOSED PROFILE ELEVATION
EXISTING PROFILE ELEVATION

VCL = 1800'
K = 602

616	618	620	622	624	626	628
863.80 / 883.08	874.04 / 883.42	881.42 / 883.60	879.68 / 883.61	877.41 / 883.45	881.03 / 883.13	885.27 / 882.64	885.73 / 881.99	880.93 / 881.17	882.67 / 880.26	889.29 / 879.36	889.57 / 878.46	891.96 / 877.55	893.77 / 876.65

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - STH 73	SHEET 324	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050104_pp.dgn | PLOT DATE : 10/31/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
608	635+59, 242'LT	RR SPIKE IN EAST SIDE OF TREE	889.16

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

WE ENERGIES (ELECTRIC)

WIDOT

DO NOT REMOVE TREES

BM 608

SLOPE INTERCEPT

R/W

STA 637+63.00 = STA 300+00.00'SH'

JUG RAMP B

2010'JB'

STA 637+75.00 = STA 2010+42.72'JB'

BH-60W

BERTHHOLD & MARGERY RIEGE

R/W

STA 642+80
REMOVE 2-48" SMALL PIPE CULVERTS
2-48" CPRC CLASS III REQ'D
2-CONCRETE MASONRY ENDWALLS REQ'D SEE SDD "CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH"

DELINEATED WETLAND BOUNDARY

SLOPE INTERCEPT

N

MATCH LINE STA 629+00

REMOVE 18" SMALL PIPE CULVERT

STH 73

630

BH-45

632

634

BH-46

636

N 1°00'08" E

638

640

STH 73

642

BH-47

MATCH LINE STA 644+00

REMOVING CURB & GUTTER

PC 643+71.06

CAUTION

EXISTING SHAUL LN

SLOPE INTERCEPT

REMOVE 18" SMALL PIPE CULVERT

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

REMOVE 19"X33" SMALL PIPE CULVERT

CHARTER COMMUNICATIONS (CABLE)

WE ENERGIES (ELECTRIC)

SHAUL LN

302'SH'

R/W

CAUTION

SLOPE INTERCEPT

ALLIANT ENERGY (GAS)

WE ENERGY (ELECTRIC)

REMOVE 3-24" SMALL PIPE CULVERTS
REMOVE 1-18" SMALL PIPE CULVERT

CONTROL POINT 511A
Y=466866.372
X=903419.785
0.75" IRON ROD SET

DELINEATED WETLAND BOUNDARY

ARTHUR M & ALYCE S MIKKELSON

STA 635+48 - STA 640+52 RT
REMOVING GUARDRAIL

BH-61

SAMUEL D GOTTLIEB

5

5

EXISTING GROUND AT R/L

STA 634+65
EL 884.69

LT BENCH PROFILE

-2.17%

STA 636+57
EL 880.52

-0.90%

-0.87%

LT DITCH PROFILE

STA 634+00
EL 868.00

-0.50%

STA 635+00
EL 867.50

STA 636+00
EL 866.31

-2.68%

-5.70%

STA 636+80
EL 861.75

PROPOSED PROFILE ELEVATION

EXISTING PROFILE ELEVATION

PROPOSED PROFILE AT R/L

STA 637+00
EL 862.15

STA 639+00
EL 859.70

VPC STA 639+00.00
VPC EL 867.61

STA 639+00
EL 856.81

-1.22%

-2.24%

LT DITCH PROFILE

-1.08%

-0.75%

RT DITCH PROFILE

VCL = 800'
K = 328

LP STA 641+95.92
LP EL 866.28

STA 641+00
EL 857.54

VPI STA 643+00.00
VPI EL 864.00

STA 642+78
EL 855.75

-1.00%

2.99%

4.48%

STA 643+70
EL 858.50

STA 642+85
EL 854.00

STA 642+80
2-48" CPRC CLASS III REQ'D
SKEW 1° RHF

893.77	876.65	888.76	875.75	890.45	874.84	889.48	873.94	885.75	873.03	884.39	872.13	884.52	871.23	899.87	870.32	884.08	869.42	870.68	868.52	866.71	867.61	865.38	866.86	864.52	866.42	863.93	866.28	863.93	866.44	864.82	866.91

630 632 634 636 638 640 642 644

885 880 875 870 865 860 855 850

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - STH 73	SHEET 325	E

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

N

BERTHHOLD & MARGERY
RIEGE

R/W

SLOPE INTERCEPT

PT 648+86.15

MATCH LINE STA 644+00

646 648 650 652 654 656 658

STH 73

N 1°27'26" W

BH-48

PC 656+94.11

R/W

R/W

CAUTION

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

CHARTER COMMUNICATIONS
(CABLE)

ALLIANT ENERGY
(GAS)

WE ENERGY
(ELECTRIC)

R/W

SLOPE INTERCEPT

TLE

STA 652+95 RT
CONSTRUCT FE

STA 653+25 - 655+10 RT
REMOVING GUARDRAIL;
STEEL PLATE BEAM GUARD ENERGY
ABSORBING TERMINAL AND STEEL
PLATE BEAM GUARD CLASS A REQ'D,
CONNECT TO EXISTING GUARDRAIL

END PROJECT
STA 655+10.00

CONTROL POINT 502
Y=468869.795
X=903327.766
0.75" IRON ROD SET
W/ BLUE EMCS CAP

BM 602

SAMUEL D GOTTLIEB

P.L.

WALTER J & IRENE R
OLSON

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
602	659+34, 77'RT	PK NAIL	874.04

5

5

END PROJECT
STA 655+10.00

VPI STA 656+50.00
VPI EL 884.78

HP STA 656+23.81
HP EL 880.34

VPOC STA 654+10.00
MATCH EXISTING

VCL = 800'
K = 328

PROPOSED PROFILE AT R/L

VPT STA 647+00.00
VPT EL 870.16

1.54%

EXISTING GROUND AT R/L

3.44%

STA 648+00
EL 867.83

0.80%

4.29%

LT DITCH PROFILE

STA 647+00
EL 864.39

STA 644+63
EL 862.49

STA 644+25
EL 860.27

PROPOSED PROFILE ELEVATION
EXISTING PROFILE ELEVATION

VPC STA 651+00.00
VPC EL 876.31

STA 654+00
EL 876.04

-4.85%

LT DITCH PROFILE

STA 655+10
EL 870.70

VCL = 1100'
K = 340

VPT STA 662+00.00

890 885 880 875 870 865 860 855

864.82	866.91	866.20	867.69	867.96	868.77	869.62	870.16	871.18	871.70	872.92	873.23	874.82	874.77	876.29	876.31	877.66	877.70	878.93	878.80	879.62	879.61	880.14	880.12	880.29	880.34	880.09	880.26	879.74	879.89	879.11	879.22

644 646 648 650 652 654 656 658

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - STH 73	SHEET 326	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
600	624'B'+76.76'RT	RR SPIKE	925.09

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

PERRY J AND JULIE A HALVERSON

P.L.

CONTROL POINT 500
Y=468094.369
X=900508.770
ELEV=922.69
FENO ALUMN. CAP MON.

BEGIN CONSTRUCTION
STA 628+50'B'

BERTHHOLD & MARGERY RIEGE

STA 637+80'B'LT
CONSTRUCT PE
REMOVE 2-24" SMALL PIPE CULVERTS
2-30" CMCP REQ'D

SLOPE INTERCEPT

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

RIPRAP

R/W

TLE

PC 634+65.64'B'

USH 12/18

626'B' 628'B' 630'B' 632'B' 634'B' 636'B' 638'B'

BH-50

MATCH LINE STA 639+50'B'

S 56°28'18" E

OHT

OH

BM 600

JOAN I HALVERSON

STA 628+55'B'RT & LT
PIPE UNDERDRAIN UNPERFORATED 6-INCH,
2 - REINFORCED CONCRETE APRON
ENDWALL FOR PIPE UNDERDRAIN REQ'D

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

WE ENERGIES (ELECTRIC)

STA 637+87'B'RT
CONSTRUCT FE
REMOVE 18" SMALL PIPE CULVERT
1-24" CMCP REQ'D

5

5

BEGIN CONSTRUCTION
STA 628+50'B'

VPI STA 628+50.00'B'
VPI EL 908.36
MATCH EXISTING

STA 628+50'B'
EL 905.24

VPC STA 629+25.00'B'
VPC EL 905.37

-3.97%

-4.79%

-4.31%

-3.13%

-1.22%

-1.07%

VCL = 2200'
K = 373

PROPOSED PROFILE AT R/L

LT DITCH PROFILE

RT DITCH PROFILE

STA 633+00'B'
EL 885.02

STA 635+03'B'
EL 878.67

STA 635+00'B'
EL 877.22

EXISTING GROUND AT R/L

PROPOSED PROFILE ELEVATION

EXISTING PROFILE ELEVATION

905 900 895 890 885 880 875 870

922.42 918.39 914.41 910.36 906.37 906.37 902.42 902.47 898.84 898.83 895.52 895.46 892.36 892.35 889.53 889.52 886.91 886.95 884.50 884.65 882.38 882.61 880.46 880.85 878.90 879.35

626 628 630 632 634 636 638

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - USH 12/18	SHEET 327	E

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

BERTHHOLD & MARGERY RIEGE

R/W

PT 641+39.40'B'

SLOPE INTERCEPT

MATCH LINE STA 639+50'B'

640'B' 642'B' 644'B' 646'B' 648'B' 650'B' 652'B' 654'B'

STA 645+48.00'B' = STA 11+00.00'NU'

REMOVING CURB & GUTTER

S 42°59'51" E

USH 12/18

BH-51

WE ENERGIES (ELECTRIC)

SLOPE INTERCEPT

2002'JB'

JUG RAMP B

N

MATCH LINE STA 654+50'B'

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

WE ENERGIES (ELECTRIC)

STA 644'B'+79
REMOVE 38"X60" SMALL PIPE CULVERT
1-38"X60" CPRCHE CLASS III REQ'D

BERTHHOLD & MARGERY RIEGE

SLOPE INTERCEPT

NULAND RD

REMOVE 24" SMALL PIPE CULVERT

WE ENERGIES (ELECTRIC)

REMOVING MASONRY

ARNOLD J AND JANET L BERGE

PC 651+08.58'B'

STA 651+98.50'B' = STA 2000+00.00'JB'

SLOPE INTERCEPT

ARTHUR M & ALYCE S MIKKELSON

VCL = 2200'
K = 373

LP STA 644+08.81'B'
LP EL 875.88

PROPOSED PROFILE AT R/L

VPT STA 651+25.00'B'
VPT EL 882.75

1.92%

STA 651+50'B'
EL 880.47

RT DITCH PROFILE

2.81%

1.33%

STA 653+35'B'
EL 878.00

STA 649+62'B'
EL 873.03

LT DITCH PROFILE

-1.22%

-1.07%

LT DITCH PROFILE

RT DITCH PROFILE

EXISTING GROUND AT R/L

STA 644+96'B'
EL 866.50

1.40%

0.50%

STA 644+82'B'
EL 866.75

STA 647+00'B'
EL 867.84

STA 644'B'+79
1-38"X60" CPRCHE CLASS III REQ'D
SKEW 8° LHF

VPI STA 640+25.00'B'
VPI EL 861.65

PROPOSED PROFILE ELEVATION
EXISTING PROFILE ELEVATION

	640	642	644	646	648	650	652	654
PROPOSED PROFILE ELEVATION	878.12	876.47	876.00	877.02	877.93	879.12	880.57	882.28	884.19	886.11	888.03
EXISTING PROFILE ELEVATION	877.80	876.36	875.12	874.26	873.75	873.51	873.42	872.17	872.31	875.23	877.16	879.80	881.99	884.02	885.97

895 890 885 880 875 870 865 860

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - USH 12/18	SHEET 328	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050108_pp.dgn PLOT DATE : 10/31/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
605	625+16.195'RT	CHISELED SQUARE ON OUTFALL	888.40
606	626+46.205'RT	CHISELED SQUARE ON BACK OF CURB	893.45

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

EXISTING STH 73

STH 73

USH 12/18

DEERFIELD FINANCIAL CORP

606

BM 605

STA 664+86'B' - 667+17'B'LT
MGS GUARDRAIL 3, MGS THRIE BEAM TRANSITION & MGS GUARDRAIL TERMINAL EAT (SEE STANDARD DETAIL DRAWINGS)

STA 665+45'B' - 666+50'B'RT
MGS GUARDRAIL 3, MGS THRIE BEAM TRANSITION & MGS GUARDRAIL TERMINAL EAT (SEE STANDARD DETAIL DRAWINGS)

REMOVE 24" SMALL PIPE CULVERT

REMOVING MASONRY

RIPRAP

PT 657+68.32'B'

STA 661+62'B' - 662+51'B'LT
MGS GUARDRAIL 3, MGS GUARDRAIL TERMINAL TYPE 2 & MGS THRIE BEAM TRANSITION (SEE STANDARD DETAIL DRAWINGS)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

SLOPE INTERCEPT

R/W

REMOVING CURB & GUTTER

MATCH LINE STA 654+50'B'

MATCH LINE STA 669+50'B'

656'B' 658'B' 660'B' 662'B' 664'B' 666'B' 668'B'

BH-52

B801-1 B801-2 B801-3

B-13-801

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

REMOVING GEODETIC SURVEY MONUMENT

SLOPE INTERCEPT

STA 663+97.88'B' =
STA 625+04.34

SLOPE INTERCEPT

CONTROL POINT 510
Y=465254.949
X=903357.955
0.75" IRON ROD SET

SHAUL REV LIVING TR
DONALD & JOAN

ARTHUR M & ALYCE S
MIKKELSON

STA 660+54'B' - 663+09'B'RT
MGS GUARDRAIL 3, MGS THRIE BEAM TRANSITION & MGS GUARDRAIL TERMINAL EAT (SEE STANDARD DETAIL DRAWINGS)

STA 663+98'B'
STRUCTURE B-13-801
2-SPAN (45W GRIDERS)
230' OVERALL LENGTH
SKEW 43° 00' RHF

VPI STA 667+00.00'B'
VPI EL 912.97

VPC STA 657+85.00'B'
VPC EL 895.42

HP STA 666+59.39'B'
HP EL 903.80

PROPOSED PROFILE AT R/L

1.92%

VCL = 1830'
K = 456

STA 662+34'B'
EL 889.85

EXISTING GROUND AT R/L

2.50%

0.50%

0.52%

0.90%

RT DITCH PROFILE

LT DITCH PROFILE

STA 660+00'B'
EL 883.98

STA 662+90'B'
EL 886.42

16.75' MIN

STA 664+20'B'
EL 884.65

LT DITCH PROFILE

PROPOSED PROFILE ELEVATION
EXISTING PROFILE ELEVATION

910 905 900 895 890 885 880 875

887.40 889.95
887.86 891.87
889.08 893.79
889.45 895.70
890.35 897.48
890.15 899.03
888.86 900.37
886.82 901.49
884.81 902.39
882.82 903.07
883.08 903.53
885.08 903.77
889.38 903.79
886.92 903.59
888.83 903.17

656 658 660 662 664 666 668

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - USH 12/18	SHEET 329	E

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

EVANGELICAL LUTHERAN CHURCH

P.L.

SENSITIVE AREA
CEMETERY BOUNDARY
DO NOT ENTER

SHAUL REV LIVING TR DONALD & JOAN

FENCE SAFETY
STA 669+50'B' - STA 672+50'B', 135'LT
(PLACE PRIOR TO CONSTRUCTION)

R/W

BH-64

WE ENERGIES (ELECTRIC)

328'SH'

SHAUL LN

330'SH'

BH-65

SHAWN K & CHRISTINE M SIMONSON

STA 681+21'B'
REMOVE 24" SMALL PIPE CULVERT
1-30" CPRC CLASS III REQ'D

SLOPE INTERCEPT

REMOVE 15" SMALL PIPE CULVERT

MATCH LINE STA 669+50'B'

MATCH LINE STA 684+50'B'

STA 678+00.00'B' =
STA 1005+03'JA'

670'B' 672'B' 674'B' 676'B' 678'B' 680'B' 682'B' 684'B'

USH 12/18

BH-53

S 45°59'51" E

BH-54

BH-55

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

1004'JA'

JUG RAMP A

SLOPE INTERCEPT

SHAUL REV LIVING TR DONALD & JOAN

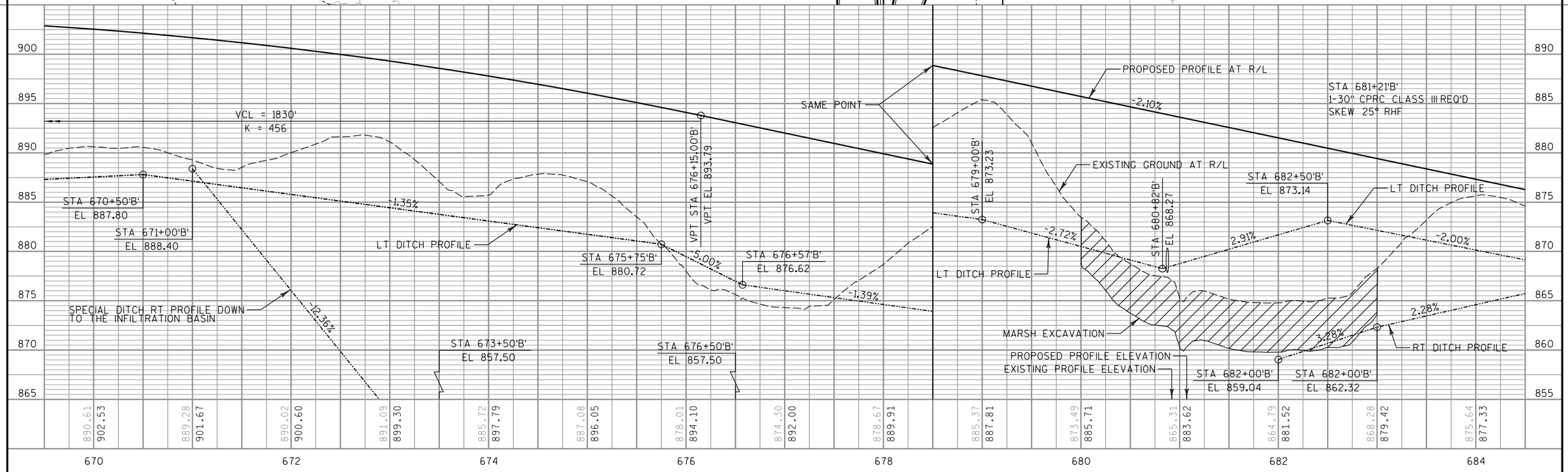
SLOPE INTERCEPT

R/W

SHAUL REV LIVING TR DONALD & JOAN

5

5



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - USH 12/18	SHEET 330	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050110_pp.dgn PLOT DATE : 10/31/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
610	696'B'+52, 34' LT	WIS D.O.T. ALUMN. DISK	849.38
611	696'B'+26, 45' RT	CHISELED SQUARE SW ABUTMENT	849.81

MATCH LINE STA 684+50'B'

PC 684+58.36'B'

R/W

P.L.

STA 689+92'B' LT
CONSTRUCT FE
REMOVE SMALL PIPE CULVERT
1-18" CMCP REQ'D

SLOPE INTERCEPT

SHAUL REV LIVING TR DONALD & JOAN

STA 689+92'B' - STA 697+40'B' LT & RT
REMOVING GUARDRAIL

DELINEATED WETLAND BOUNDARY

TLE

R/W

686'B'

688'B'

BH-56

690'B'

692'B'

USH 12/18

694'B'

696'B'

698'B'

MUD CREEK

ROBERT & KIM RIEGE

CONTROL POINT 505
Y=463614.59
X=905938.935
0.75" IRON ROD SET

STA 698+54'B' RT
REMOVE 24" SMALL
PIPE CULVERT

PT 698+23.91'B'

BM 610

B-13-358

BH-57

MATCH LINE STA 699+50'B'

STA 698+50.03'B' =
STA 10+00.00'FD

REMOVING MASONRY

REMOVING MASONRY

REMOVING CURB & GUTTER

BM 611

FADNESS RD

EXISTING STH 73

SLOPE INTERCEPT

STA 687+68'B'
REMOVE 24" SMALL PIPE CULVERT
1-24" CPRC CLASS III REQ'D

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

CONTROL POINT 506
Y=463557.476
X=905417.62
0.75" IRON ROD SET

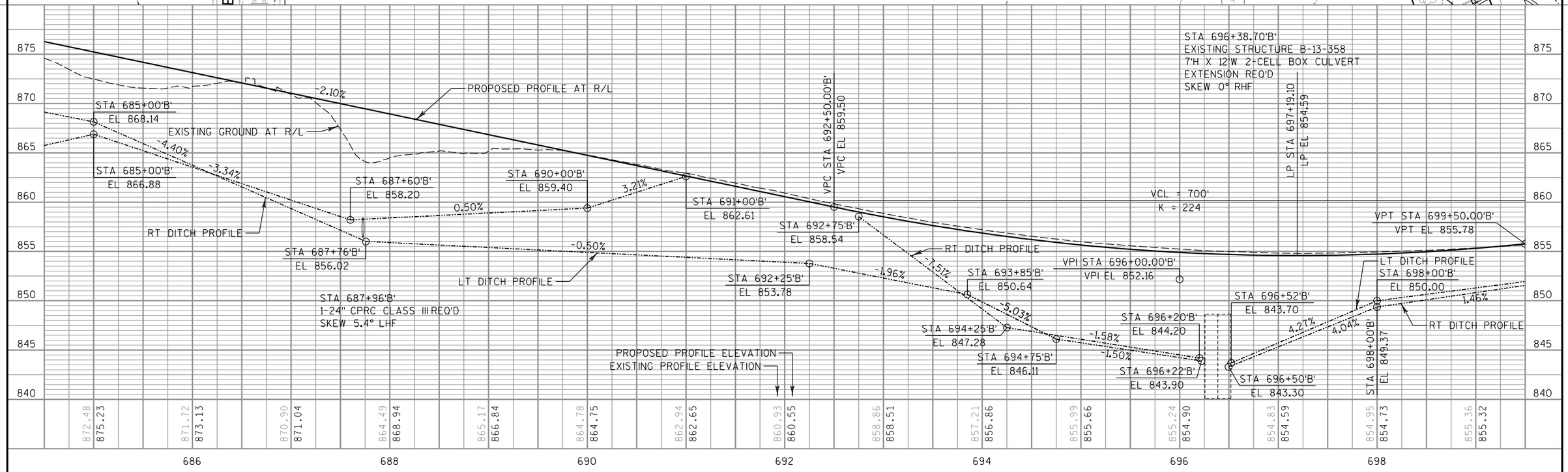
MAX E & RUTH L BARTH TR

DELINEATED WETLAND BOUNDARY

ERIK AND KELLY EKLOF

5

5



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - USH 12/18	SHEET 331	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050111_pp.dgn PLOT DATE : 10/31/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

ROBERT & KIM RIEGE

DELINEATED WETLAND BOUNDARY

ALLIANT ENERGY (GAS)

P.L.

R/W

TLE

SLOPE INTERCEPT

MATCH LINE STA 699+50'B'

BH-57

700'B' 702'B' 704'B' 706'B' USH 12/18 708'B' 710'B' 712'B' 714'B'

S 84°21'02" E

CONTROL POINT 501
Y=463417.554
X=906423.458
FENO ALUMN. CAP MON.

FENO

END CONSTRUCTION
STA 702+00'B'

FRONTIER COMMUNICATIONS
(COMMUNICATIONS)

STA 701+95'B'RT & LT
PIPE UNDERDRAIN UNPERFORATED 6-INCH,
2 - REINFORCED CONCRETE APRON
ENDWALL FOR PIPE UNDERDRAIN REO'D

N

5

5

VPT STA 699+50.00'B'
VPT EL 855.78

VPI STA 702+00.00'B'
VPI EL 858.36
MATCH EXISTING

PROPOSED PROFILE AT R/L

EXISTING GROUND AT R/L

1.03%

LT DITCH PROFILE

1.30%

1.46%

RT DITCH PROFILE

STA 702+00'B'
EL 855.21

EXISTING PROFILE ELEVATION

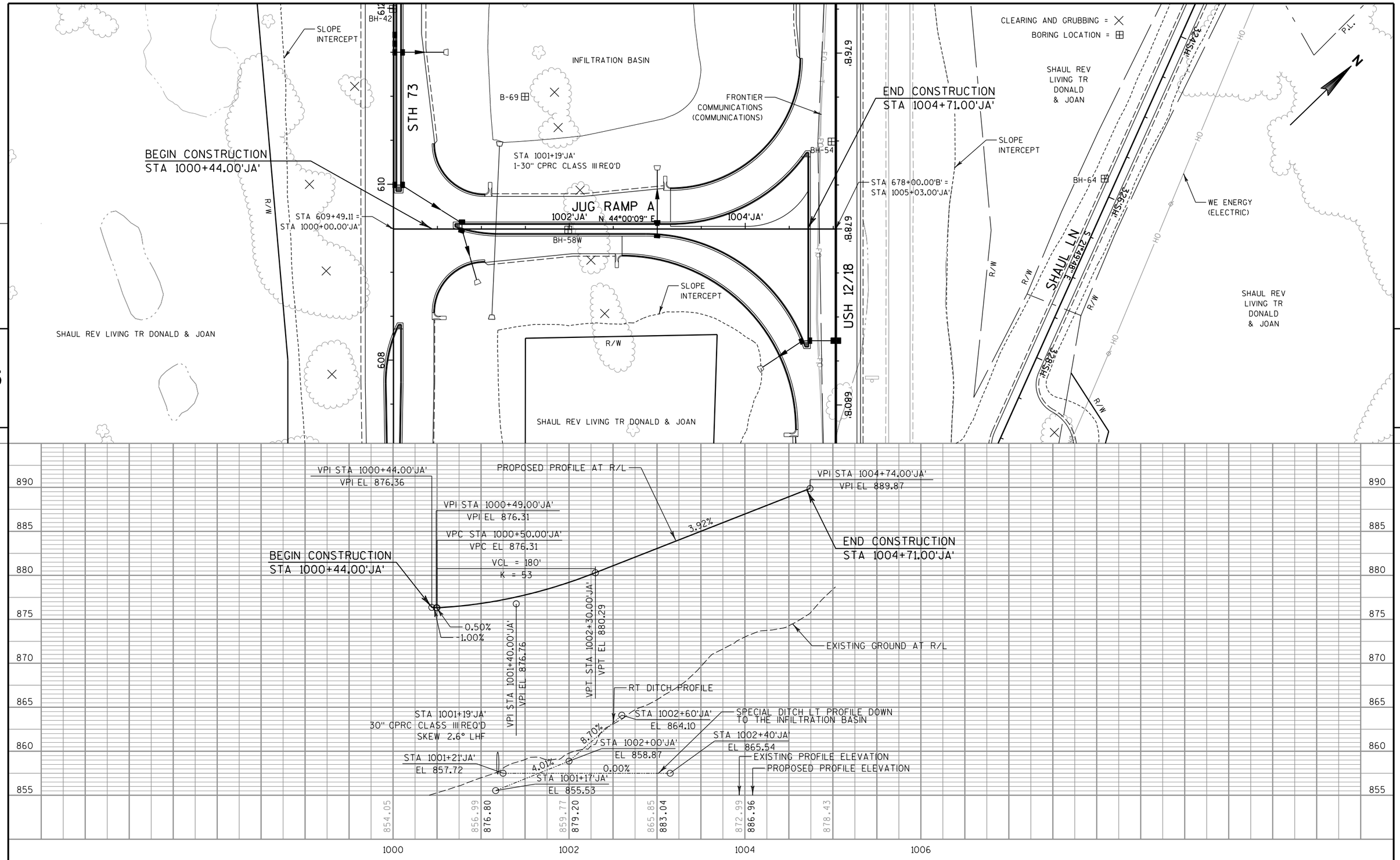
PROPOSED PROFILE ELEVATION

875 870 865 860 855 850 845 840

856.11 856.29 857.12 857.33 858.36 859.60 860.95 862.34 863.85 865.40 867.05 868.82 870.76 872.68 874.63 876.61 878.55

700 702 704 706 708 710 712 714

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - USH 12/18	SHEET 332	E



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - JUG RAMP A	SHEET 333	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050113_pp.dgn PLOT DATE : 10/31/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
608	2008'JB'+01, 216' RT	RR SPIKE IN EAST SIDE OF TREE	889.16
609	2004'JB'+68, 216' RT	RR SPIKE IN SOUTH SIDE OF TREE CLUSTER	885.85

WE ENERGIES (ELECTRIC)

650'B'

652'B'

USH 12/18

R/W

OH

SLOPE INTERCEPT

PC 2004+44.95'JB'

2004'JB'

2006'JB'

2002'JB'

JUG RAMP B

N 44°00'09" E

BH-59

BERTHHOLD & MARGERY RIEGE

BH-60W

PT 2007+49.28'JB'

2008'JB'

S 88°59'52" E

STA 2009+47'JB'
1-30" CPRC CLASS III REQ'D

STA 637+75.00 =
STA 2010+42.73'JB'

2010'JB'

BEGIN CONSTRUCTION
STA 2000+32.03'JB'

STA 651+98.50'B' =
STA 2000+00.00'JB'

SIGN

DO NOT REMOVE TREES

CONTROL POINT 512
Y=466477.257
X=902763.762
0.75" IRON ROD SET

BM 609

BM 608

END CONSTRUCTION
STA 2009+93.73'JB'

STH 73

642

640

638

BH-47

BH-61

ALLIANT ENERGIES (GAS)

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

SAMUEL D GOTTLIEB

WE ENERGIES (ELECTRIC)

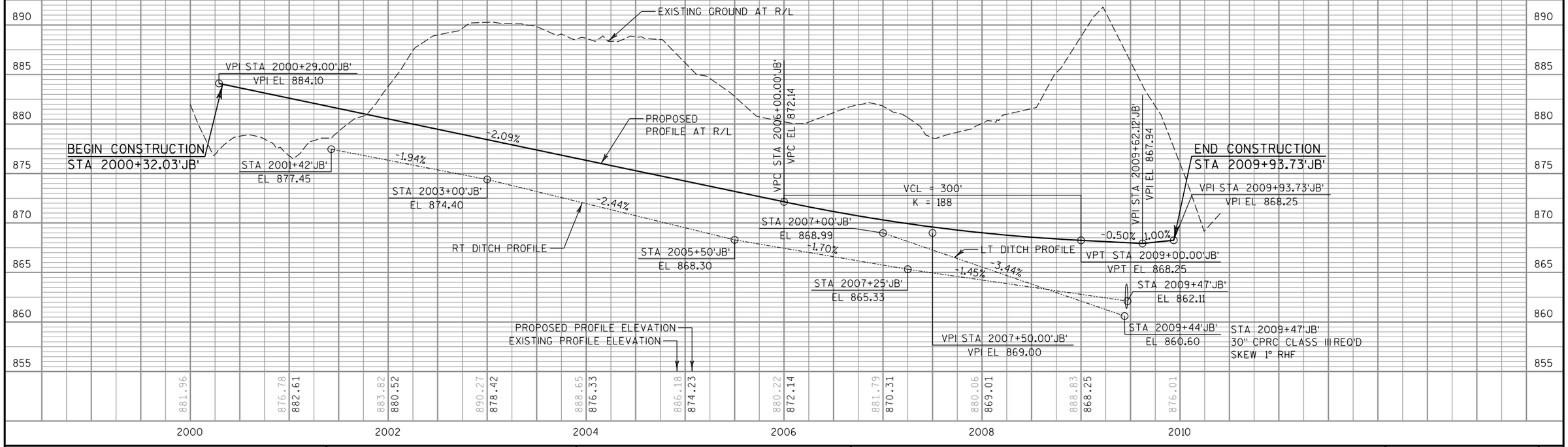
CHARTER (COMMUNICATIONS)

CONTROL POINT 511A
Y=466866.372
X=903419.785
0.75" IRON ROD SET

N

5

5



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - JUG RAMP B	SHEET 334	E

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞

N

STA 301+04'SH'
CONSTRUCT PE
1-30" CPRC CLASS III REQ'D

STA 303+40'SH'LT
CONSTRUCT PE
1-30" CMCP REQ'D

SAMUEL D GOTTLIEB

CONTROL POINT 511A
Y=466866.372
X=903419.785
0.75" IRON ROD SET

SLOPE INTERCEPT

DELINEATED WETLAND BOUNDARY

BERTHHOLD & MARGERY RIEGE

STH 73

R/W

T.L.E.

P.L.

BH-47

BH-61

BH-60W

PC 302+31.00'SH'

304'SH

302'SH'

PT 304+72.90'SH'

SHAUL LN

S 88°59'52" E

BEGIN CONSTRUCTION
STA 300+49.00'SH'

STA 637+63.00 =
STA 300+00.00'SH'

2010' JB

JUG RAMP B

ALLIANT ENERGY (GAS)

ARTHUR M & ALYCE S MIKKELSON

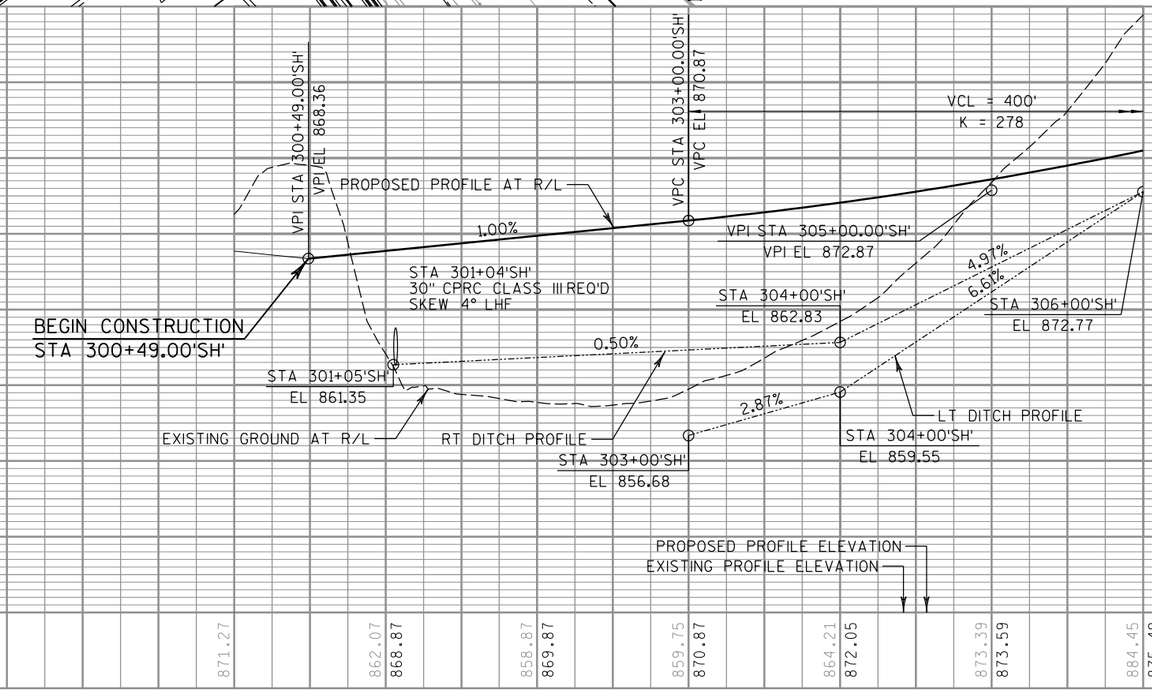
CHARTER (COMMUNICATIONS)

SLOPE INTERCEPT

MATCH LINE 306+00'SH'

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

WE ENERGIES (ELECTRIC)



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - SHAUL LN	SHEET 335	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050115_pp.dgn PLOT DATE : 10/31/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

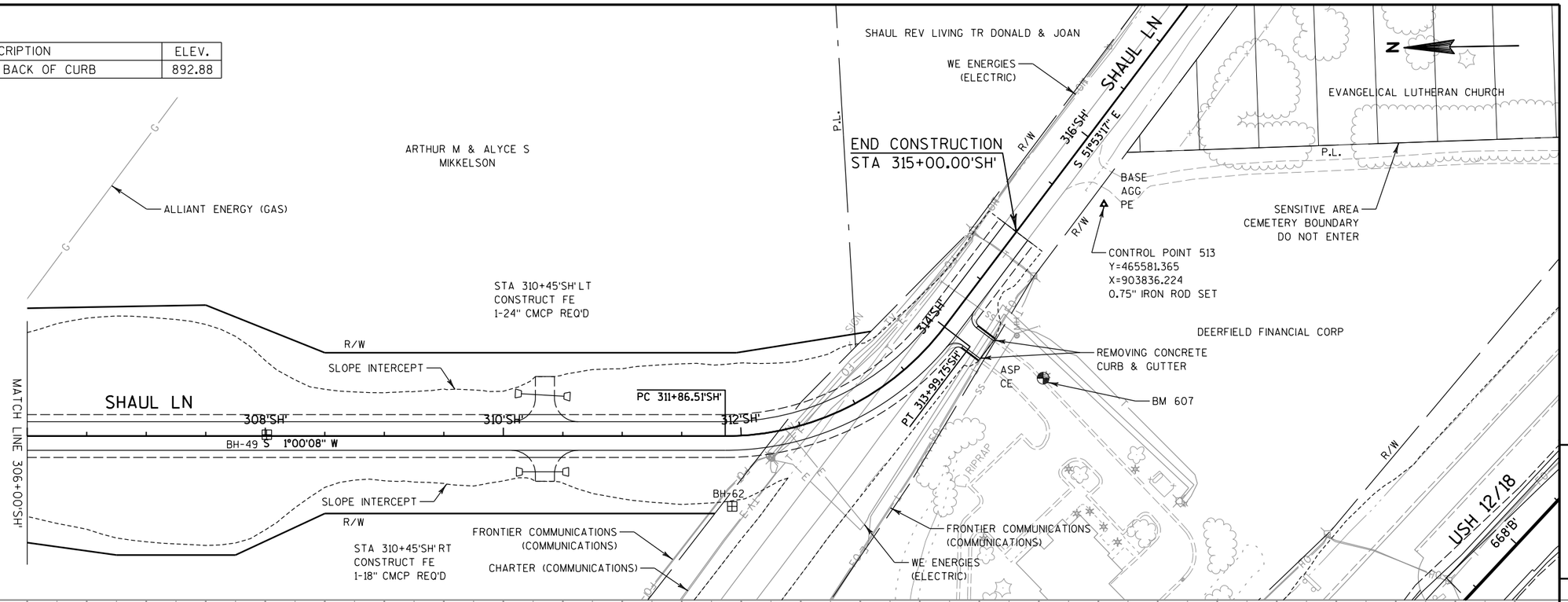
WISDOT/CADDS SHEET 40

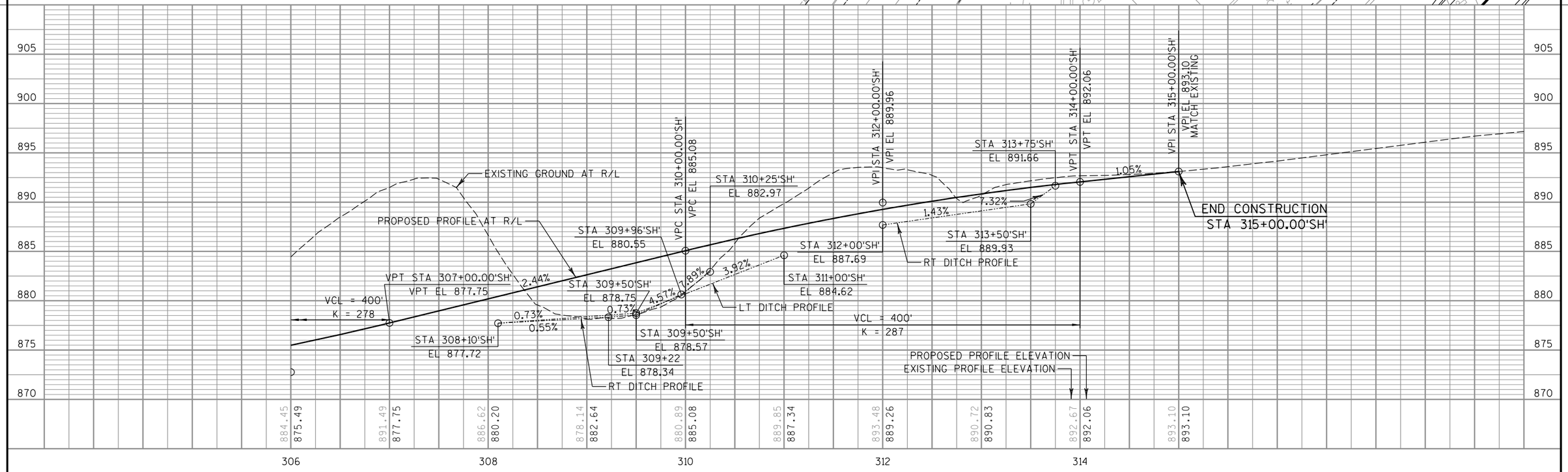
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
607	314'SH'+15. 92' RT	CHISELED SQUARE ON BACK OF CURB	892.88

CLEARING AND GRUBBING = ×

BORING LOCATION = ⊞





PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - SHAUL LN	SHEET 336	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050116_pp.dgn PLOT DATE : 10/31/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

CLEARING AND GRUBBING = ×
BORING LOCATION = ⊞

REMOVING GUARDRAIL

FRONTIER COMMUNICATIONS (COMMUNICATIONS)

BEGIN CONSTRUCTION
STA 320+16.56'SH'

DAVID W. & MARTHA I. SCHUMMER

SHAUL REV LIVING TR DONALD & JOAN

STA 329+43'SH'LT
CONSTRUCT PE

SHAWN K & CHRISTINE M SIMONSON

WE ENERGIES (ELECTRIC)

SLOPE INTERCEPT

320'SH' 322'SH' 324'SH' 326'SH' 328'SH' 330'SH'

S 21°49'48" E

SHAUL LN

BH-63 BH-64 BH-65

PT 322+74.29'SH'

FENCE SAFETY
STA 320+50'SH' - STA 322+50'SH', 30'RT
(PLACE PRIOR TO CONSTRUCTION)

SHAUL REV LIVING TR DONALD & JOAN

SENSITIVE AREA
CEMETERY BOUNDARY
DO NOT ENTER

EVANGELICAL LUTHERAN CHURCH

END CONSTRUCTION
STA 329+43.00'SH'

USH 12/18

680'B' 682'B' 684'B'

BH-55

SLOPE INTERCEPT

SHAUL REV LIVING TR DONALD & JOAN

VPI STA 320+16.56'SH'
VPI EL 896.89

VPI STA 321+60.00'SH'
VPI EL 895.90

STA 322+00'SH'
EL 892.44

VPT STA 322+35.00'SH'
VPT EL 893.84

-0.69%

VCL = 150'
K = 73

-0.75%

-0.95%

-2.74%

VPC STA 320+85.00
VPC EL 896.41

STA 322+30'SH'
EL 891.70

LT DITCH PROFILE

STA 321+70'SH'
EL 892.27

RT DITCH PROFILE

STA 321+16'SH'
EL 893.07

EXISTING GROUND AT R/L

VPC STA 324+00.00'SH'
VPC EL 889.31

VPI STA 325+00.00'SH'
VPI EL 886.57

VCL = 200'
K = 167

VPT STA 326+00.00'SH'
VPT EL 885.02

PROPOSED PROFILE AT R/L

-1.55%

-2.42%

STA 326+00'SH'
EL 882.74

RT DITCH PROFILE

PROPOSED PROFILE ELEVATION

EXISTING PROFILE ELEVATION

STA 329+28'SH'
EL 874.80

VPI STA 329+43.00'SH'
VPI EL 879.71

BEGIN CONSTRUCTION
STA 320+16.56'SH'

END CONSTRUCTION
STA 329+43.00'SH'

897.46	897.07	896.26	896.30	893.40	894.72	890.70	892.06	888.57	889.31	885.40	886.87	883.62	885.02	882.06	883.47	880.99	881.93	879.28	880.38	877.50			
320			322				324				326				328				330				332

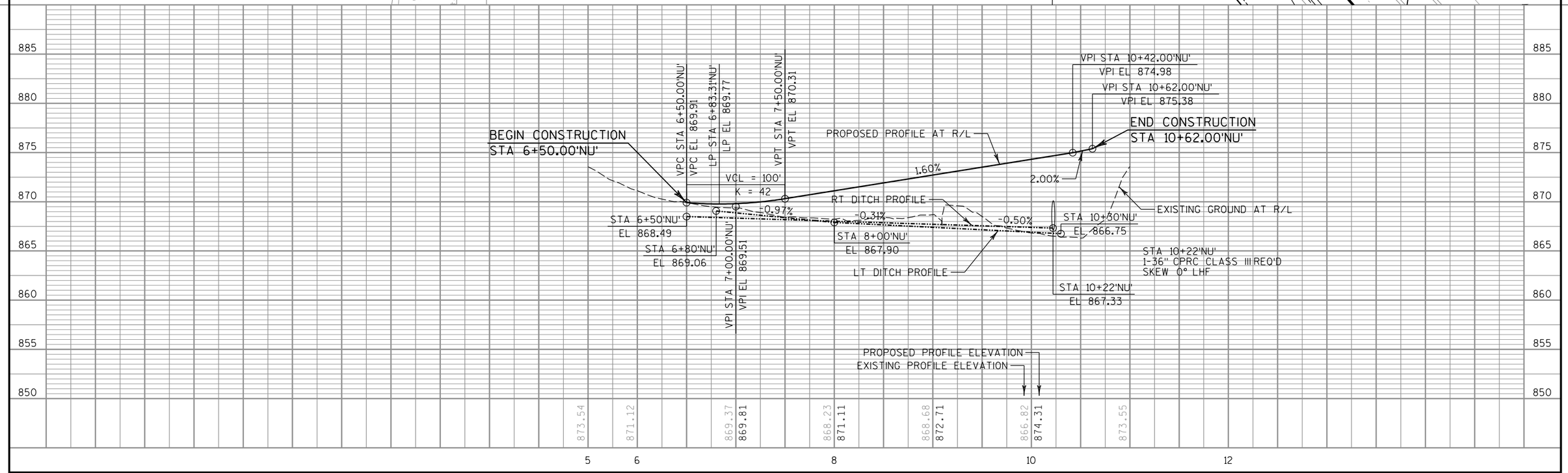
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - SHAUL LANE	SHEET 337	E

CLEARING AND GRUBBING = ×
BORING LOCATION = ⊞

N

R/W
WE ENERGIES (ELECTRIC)
SLOPE INTERCEPT
BERTHHOLD & MARGERY RIEGE
END CONSTRUCTION
STA 10+62.00'NU'
644'B'
646'B'
STA 645+48.00'B' =
STA 11+00.00'NU'
REMOVING CURB & GUTTER
FRONTIER (COMMUNICATIONS)
10'NU'
N 47°00'09" E
6'NU'
TLE
8'NU'
NULAND RD
N 87°45'10" E
BH-66
BEGIN CONSTRUCTION
STA 6+50.00'NU'
PC 8+71.76'NU'
PT 9+81.28'NU'
REMOVE SMALL PIPE CULVERT
REMOVING MASONRY
USH 12/18
648'B'
BH-51
SLOPE INTERCEPT
OH
STA 10+22'NU'
REMOVE 24" SMALL CULVERT PIPE
1-36" CPRC CLASS III REQ'D
WE ENERGIES (ELECTRIC)
SLOPE INTERCEPT
P.L.
ARNOLD & JANET BERGE
ARTHUR MIKKELSON
FRONTIER COMMUNICATIONS (COMMUNICATIONS)
650'B'

5



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - NULAND RD	SHEET 338	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050118_pp.dgn PLOT DATE : 10/31/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

CLEARING AND GRUBBING = ×
BORING LOCATION = ⊞

DELINEATED WETLAND BOUNDARY

ERIK AND KELLY EKLOF

W

P.L.

R/W

BM 611

8.969

SHAUL REV LIVING TR DONALD & JOAN

N

USH 12/18

BM 610

MUD CREEK

P.L.

DELINEATED WETLAND BOUNDARY

CONTROL POINT 505
Y=463614.59
X=905938.935
0.75" IRON ROD SET

R/W

REMOVING MASONRY

BH-67

R/W

P.L.

4'FD'

6'FD'

8'FD'

REMOVING CURB & GUTTER

8.869

FADNESS ROAD

N 3°14'10" W

R/W

TLE

ROBERT & KIM RIEGE

BEGIN CONSTRUCTION
STA 6+75.00'FD'

REMOVING MASONRY

STA 698+50.03'B' =
STA 10+00.00'FD'

DELINEATED WETLAND BOUNDARY

R/W

END CONSTRUCTION
STA 7+96.00'FD'

BH-57

SLOPE INTERCEPT

SLOPE INTERCEPT

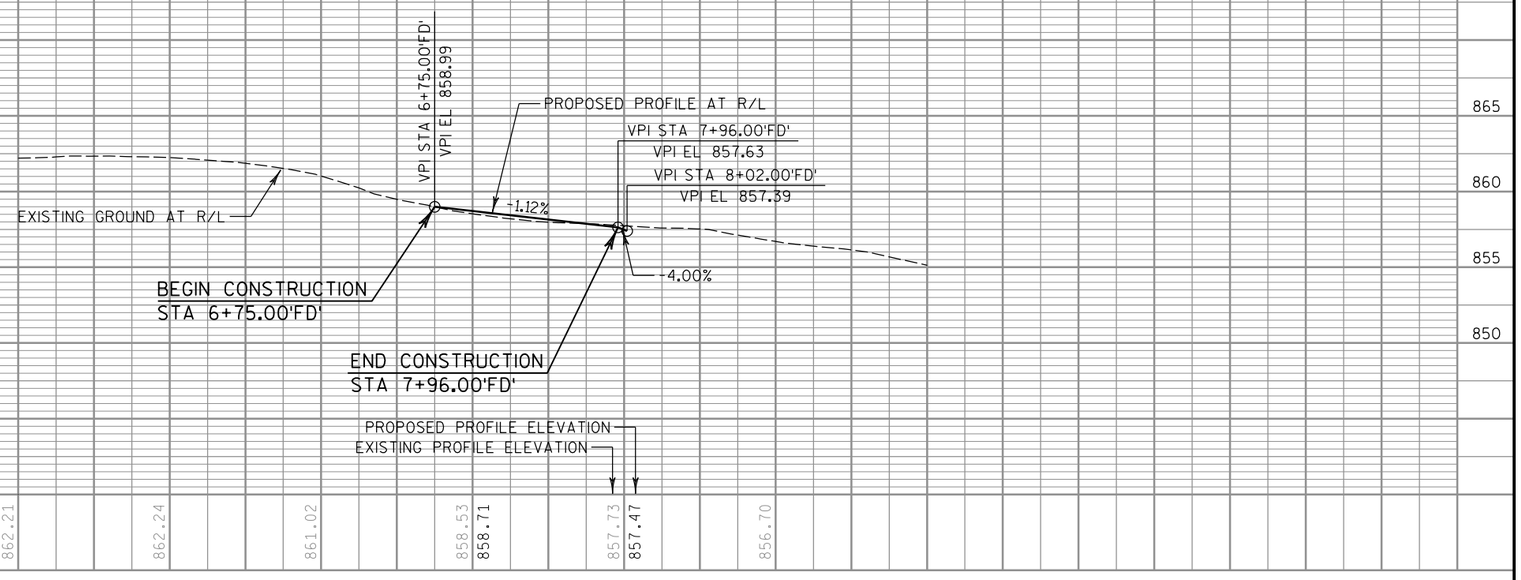
8.001

ROBERT & KIM RIEGE

FRONTIER (COMMUNICATIONS)

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
610	696'B'+52.34' LT	WIS D.O.T. ALUMN. DISK	849.38
611	696'B'+26.45' RT	CHISELED SQUARE SW ABUTMENT	849.81



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PLAN & PROFILE - FADNESS ROAD	SHEET 339	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\050119_pp.dgn PLOT DATE : 10/31/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:100

WISDOT/CADDS SHEET 40

Standard Detail Drawing List

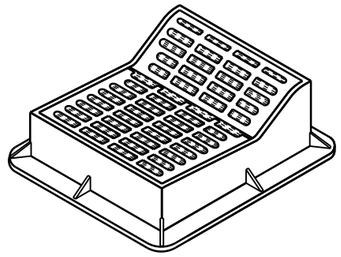
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D03-06	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D15-04A	EDGEDRAIN OUTLET AND OUTFALL MARKERS
08D15-04B	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
08D15-04C	EDGEDRAIN AND BASE AGGREGATE OPEN GRADED
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
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
09B02-08	CONDUIT UNDER PAVED HIGHWAYS
11B01-05	CONCRETE CORRUGATED MEDIAN
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
13A03-05	CONCRETE PAVEMENT SHOULDERS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13B02-07A	CONCRETE BRIDGE APPROACH
13B02-07B	STRUCTURAL APPROACH SLAB AND CONCRETE BRIDGE APPROACH
13C01-17	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-11A	RURAL DOWELED CONCRETE PAVEMENT
13C11-11B	RURAL DOWELED CONCRETE PAVEMENT
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C16-02A	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C16-02B	DETAIL FOR RIGHT TURN LANE/TEE INTERSECTION BYPASS LANE ON A CONRETE ROADWAY
13C18-02A	CONCRETE PAVEMENT JOINTING
13C18-02B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-02C	CONCRETE PAVEMENT JOINT TIES
13C18-02D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	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
14B15-08A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-08C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B18-06A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B24-08A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-08C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

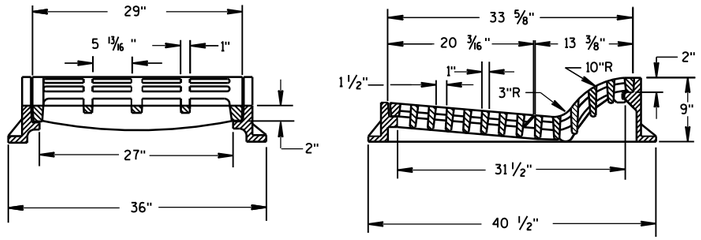
6

Standard Detail Drawing List

14B29-01	SAFETY EDGE
14B32-03A	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-03B	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-03C	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-03D	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-03E	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	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)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A01-11	MARKER POST FOR RIGHT-OF-WAY
15A02-08	DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C26-02	END-OF-ROADWAY SIGNING
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C29-03A	BICYCLE LANE MARKING
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-03	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

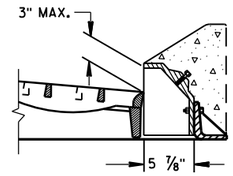
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TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

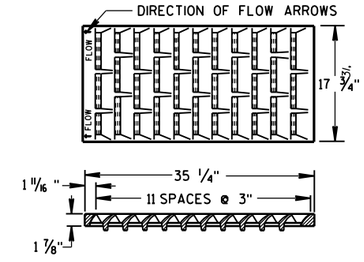
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

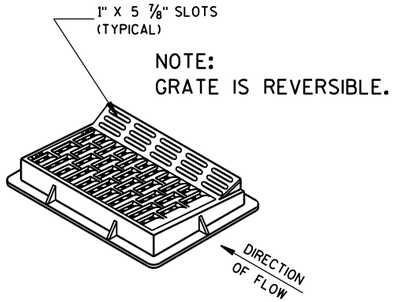
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

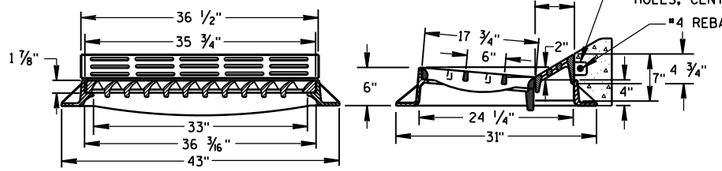
GENERAL NOTES

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.



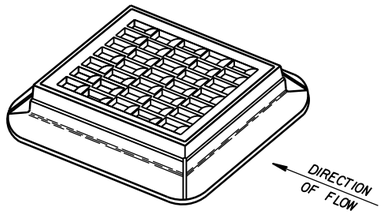


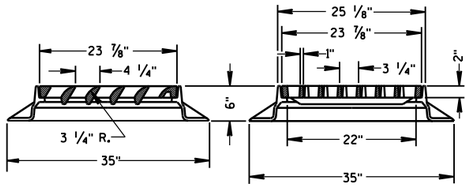


TYPE "HM"

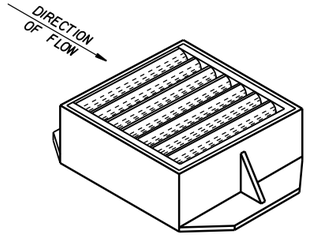
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

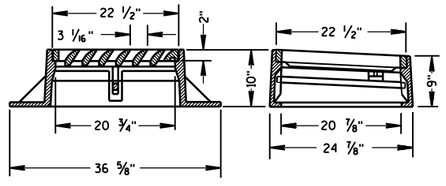
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



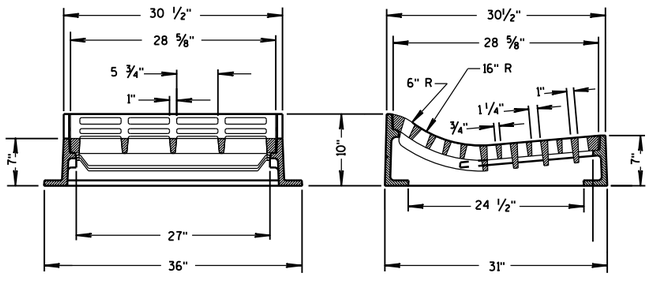


TYPE "S"



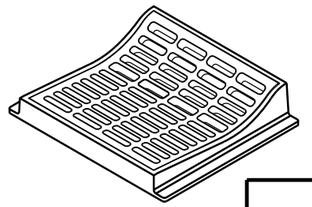


TYPE "V"



TYPE "T"

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
11/27/2013
DATE

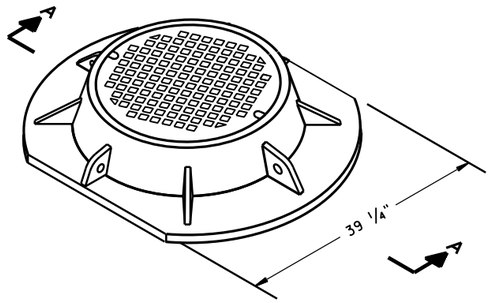
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

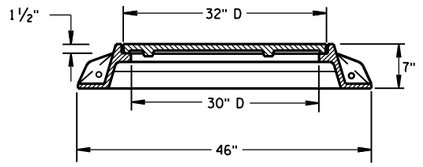
342

FHWA

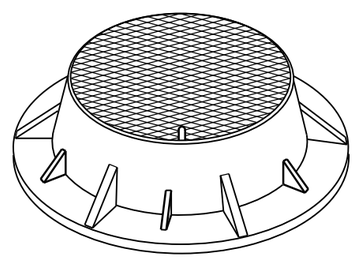
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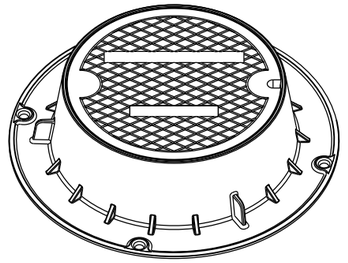
S.D.D. 8 A 5-19c

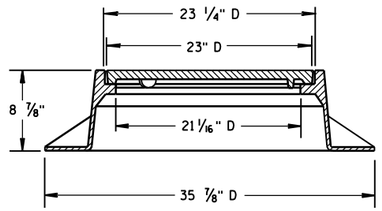


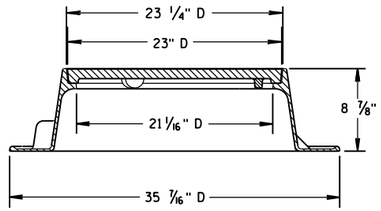


SECTION A-A
TYPE "K"









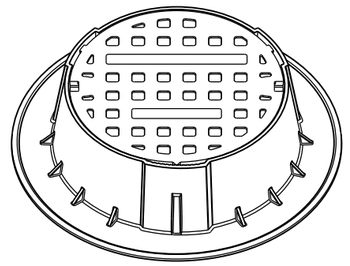
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

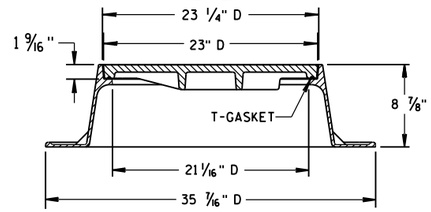
GENERAL NOTES

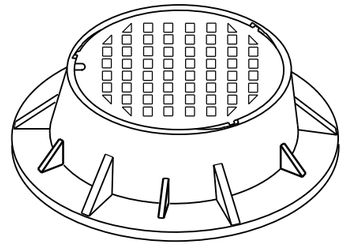
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

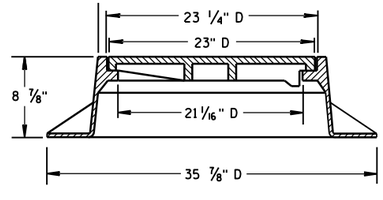
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

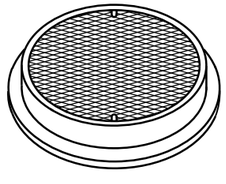


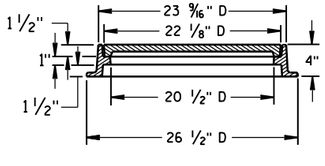




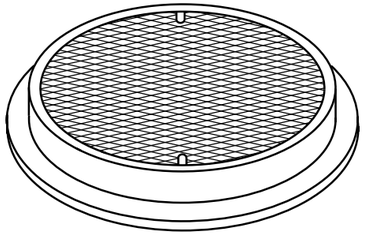


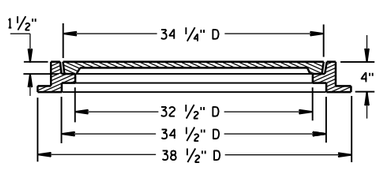
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



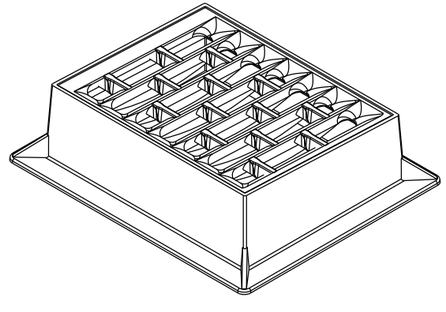


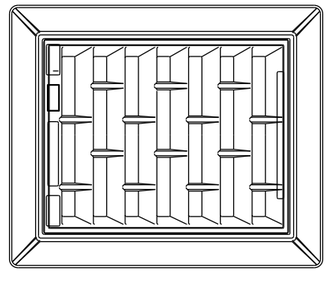
TYPE "L"

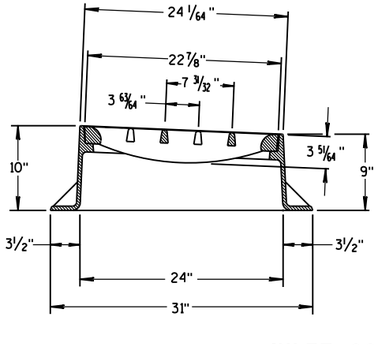


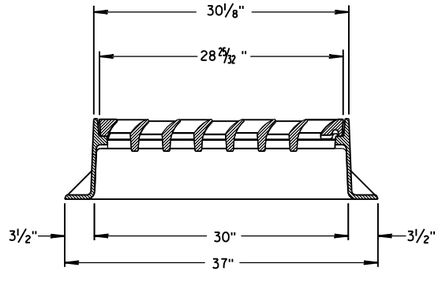


TYPE "M"









INLET COVER TYPE "BW"

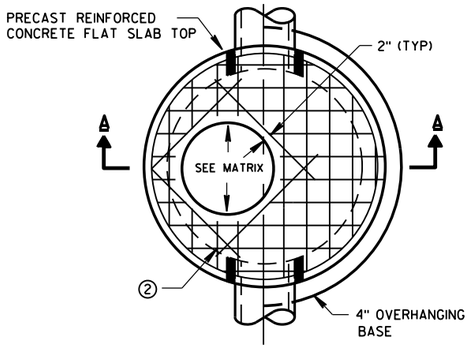
INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

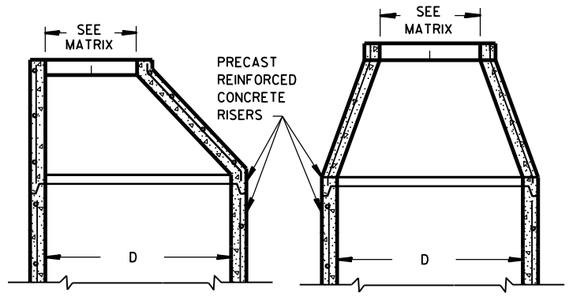
APPROVED
11/27/2013
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 A 5-19d

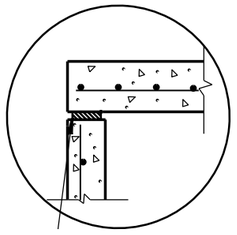


PLAN VIEW CIRCULAR OPENING

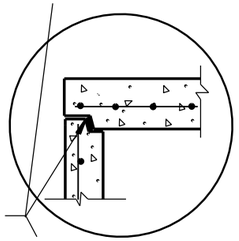


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

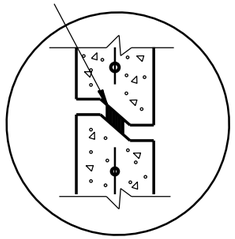


TOP WITH PLAIN END JOINT



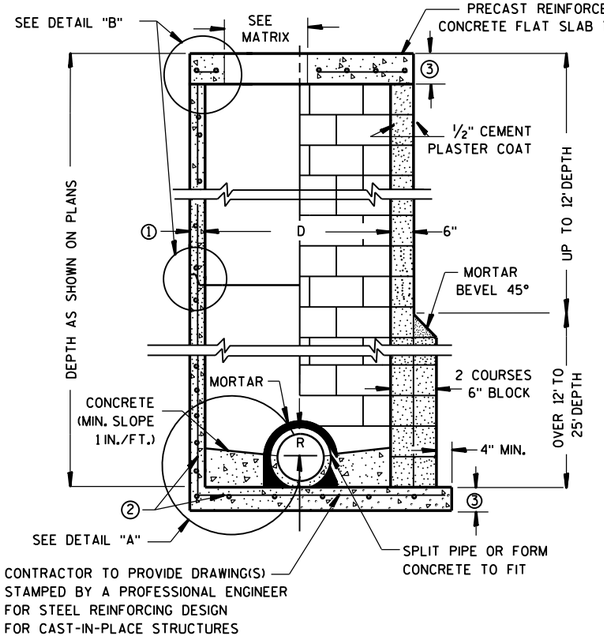
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



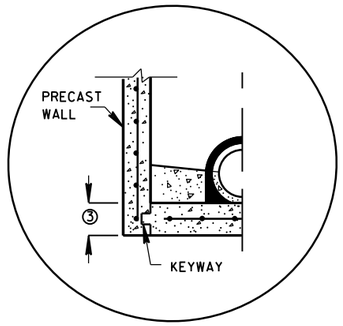
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

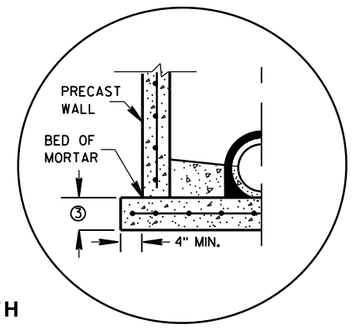


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

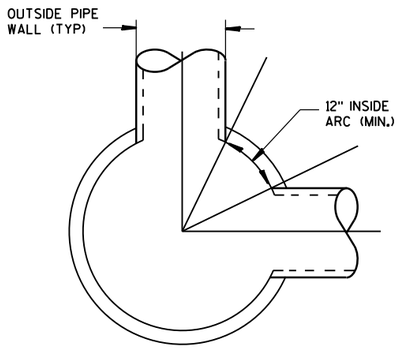


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE 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 SEPARATE 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

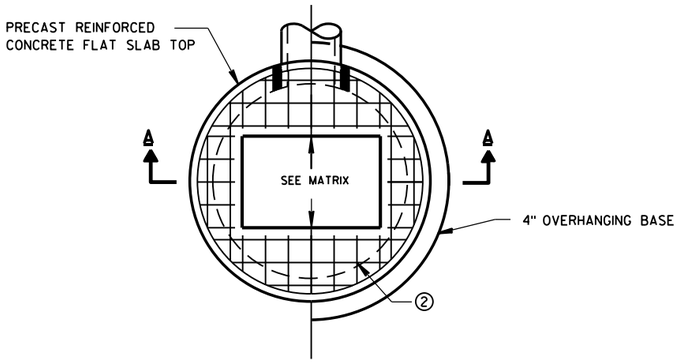
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

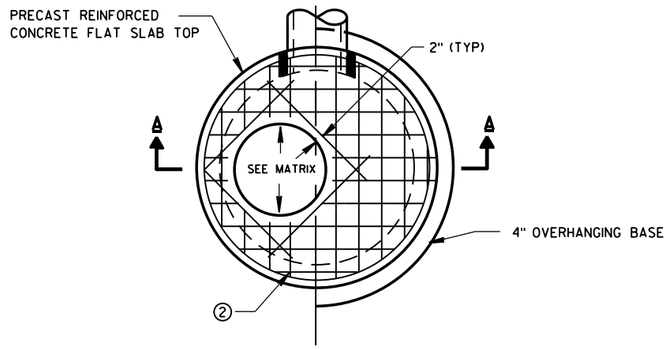
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

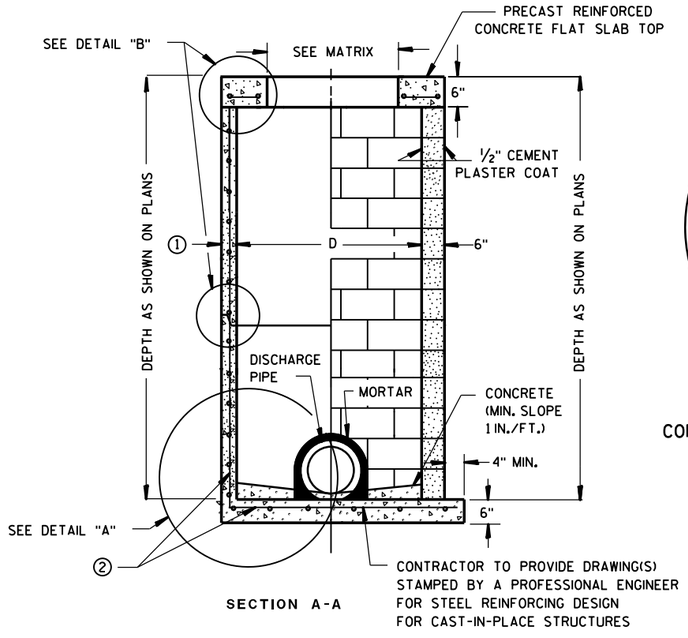
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PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

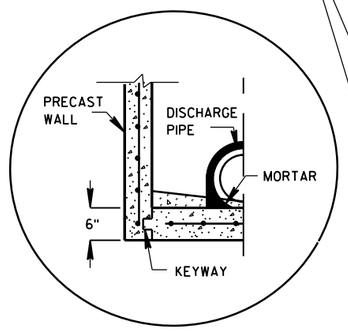


SECTION A-A

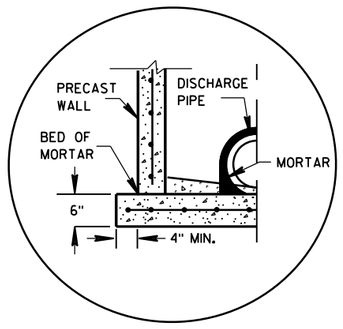
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

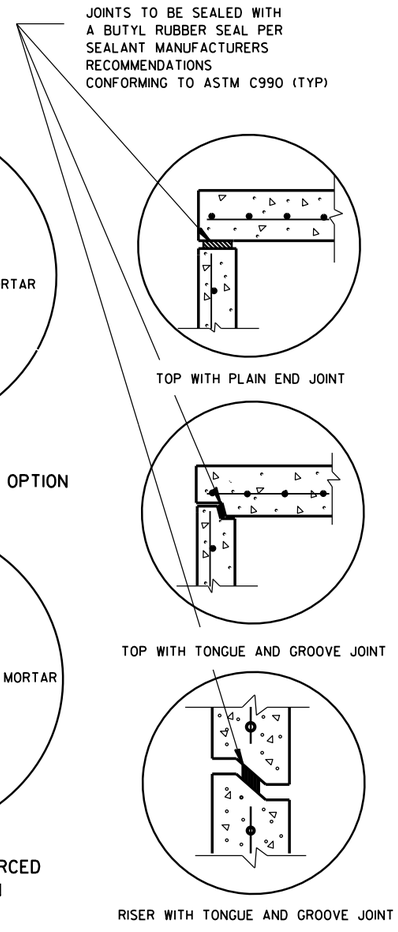


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE 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 SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

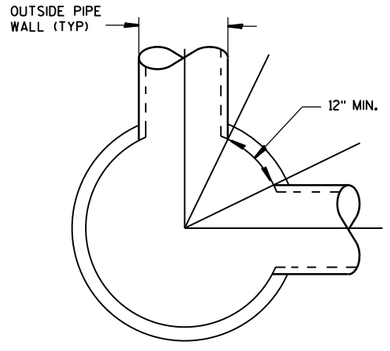
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

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

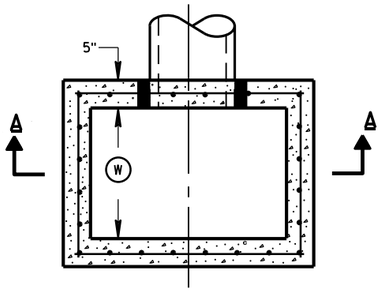
INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

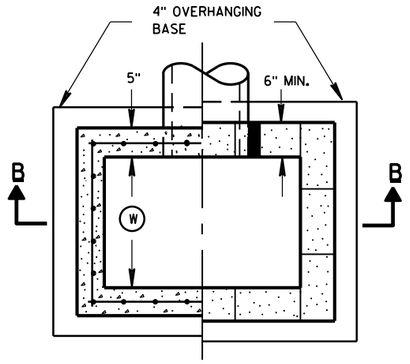
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

INLETS 3-FT AND 4-FT DIAMETER

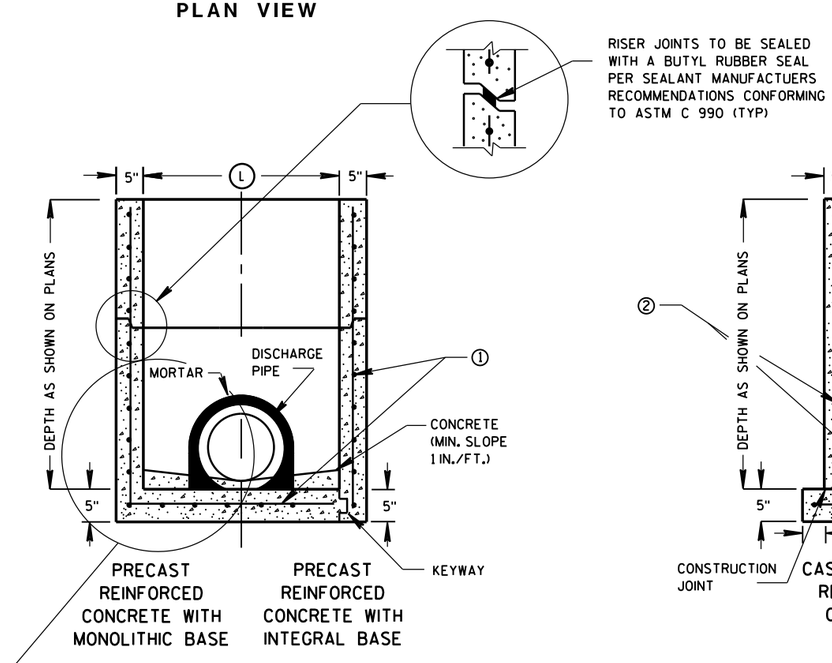
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S.D.D. 8 C 6-1



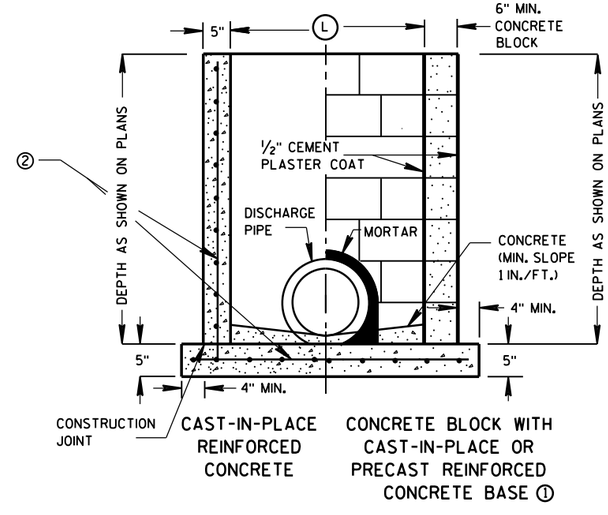
PLAN VIEW



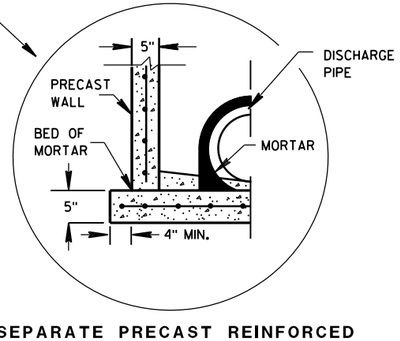
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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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 SEPARATE 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.

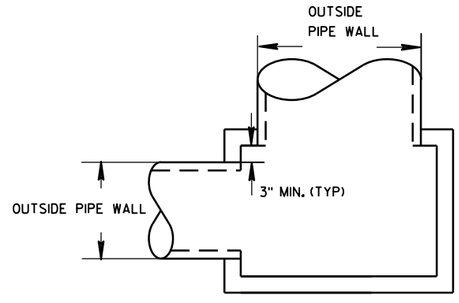
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

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



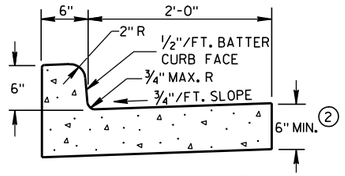
DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

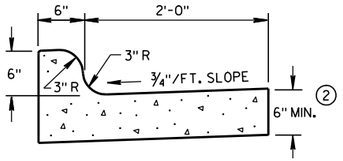
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE
ENGINEER
FHWA

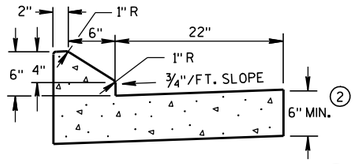
6
S.D.D. 8 C 7-1



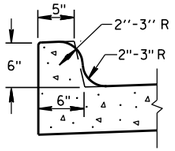
TYPES A & D (1)



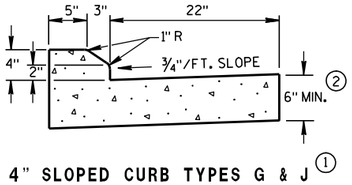
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

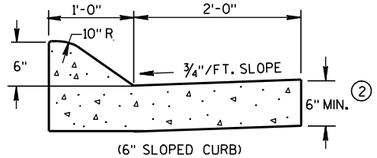


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

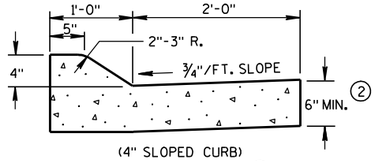


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

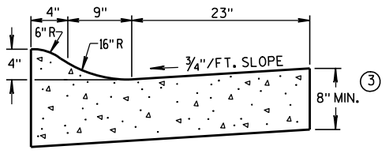


(6" SLOPED CURB)



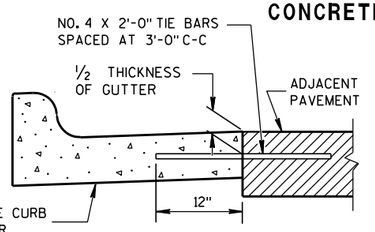
(4" SLOPED CURB)

TYPES A & D (1)

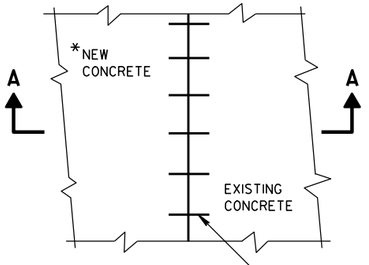


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"

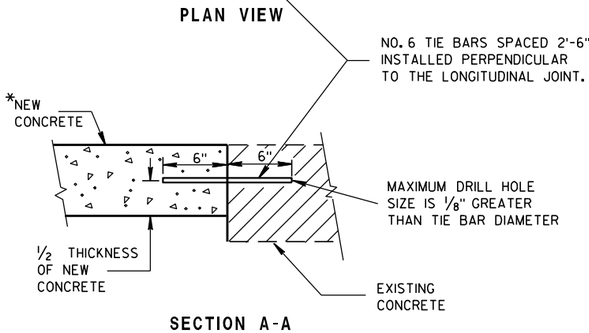


TYPICAL TIE BAR LOCATION (1)



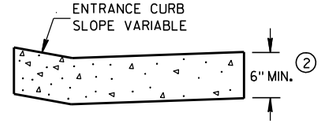
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

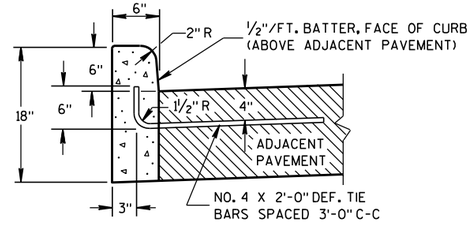


SECTION A-A

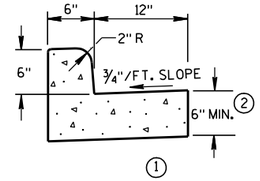
TIE BARS DRILLED INTO EXISTING PAVEMENT



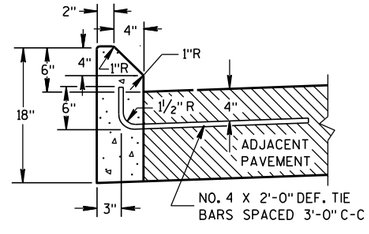
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



(1)
TYPES A & D

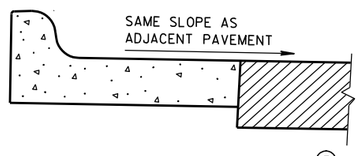


(1)
TYPES A & D
CONCRETE CURB & GUTTER 18"

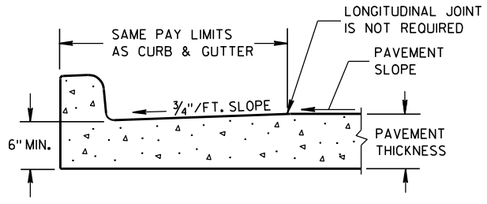


(1)
TYPES G & J

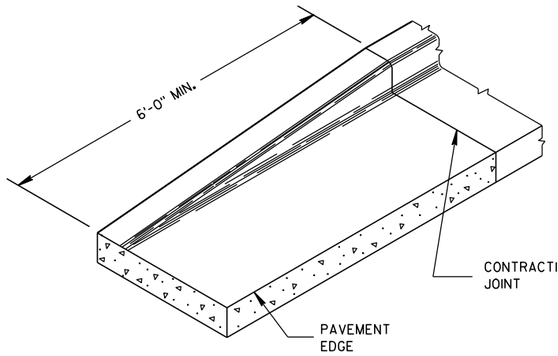
CONCRETE CURB



REVERSE SLOPE GUTTER (5)
(TYPICAL FOR ALL CURB & GUTTER TYPES)



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

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.

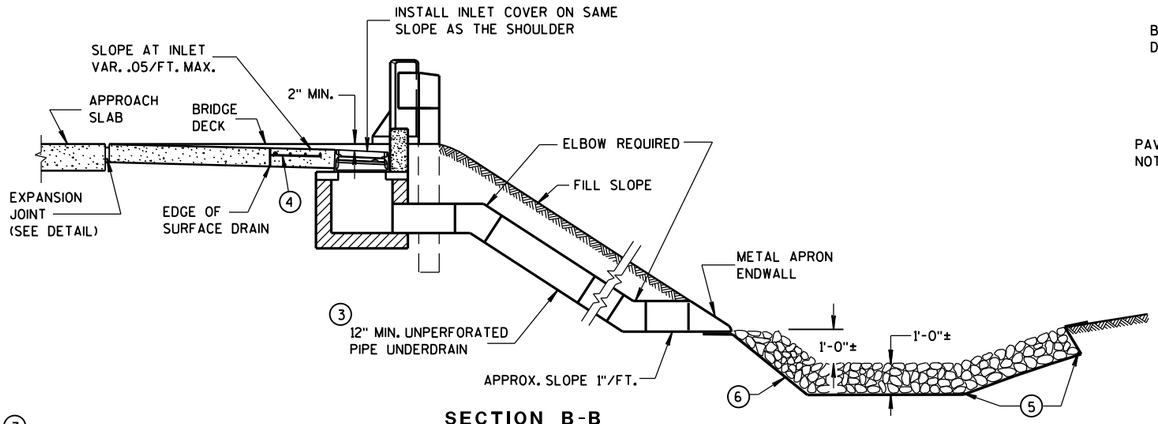
CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

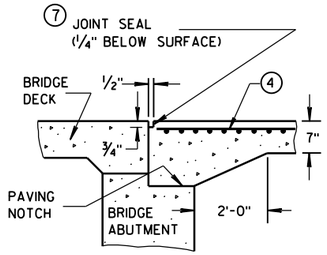
APPROVED
9/4/08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

6

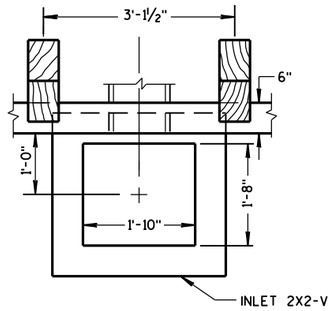
S.D.D. 8 D 1-17



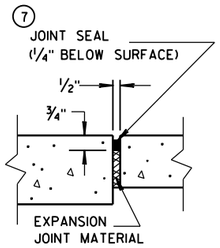
SECTION B-B



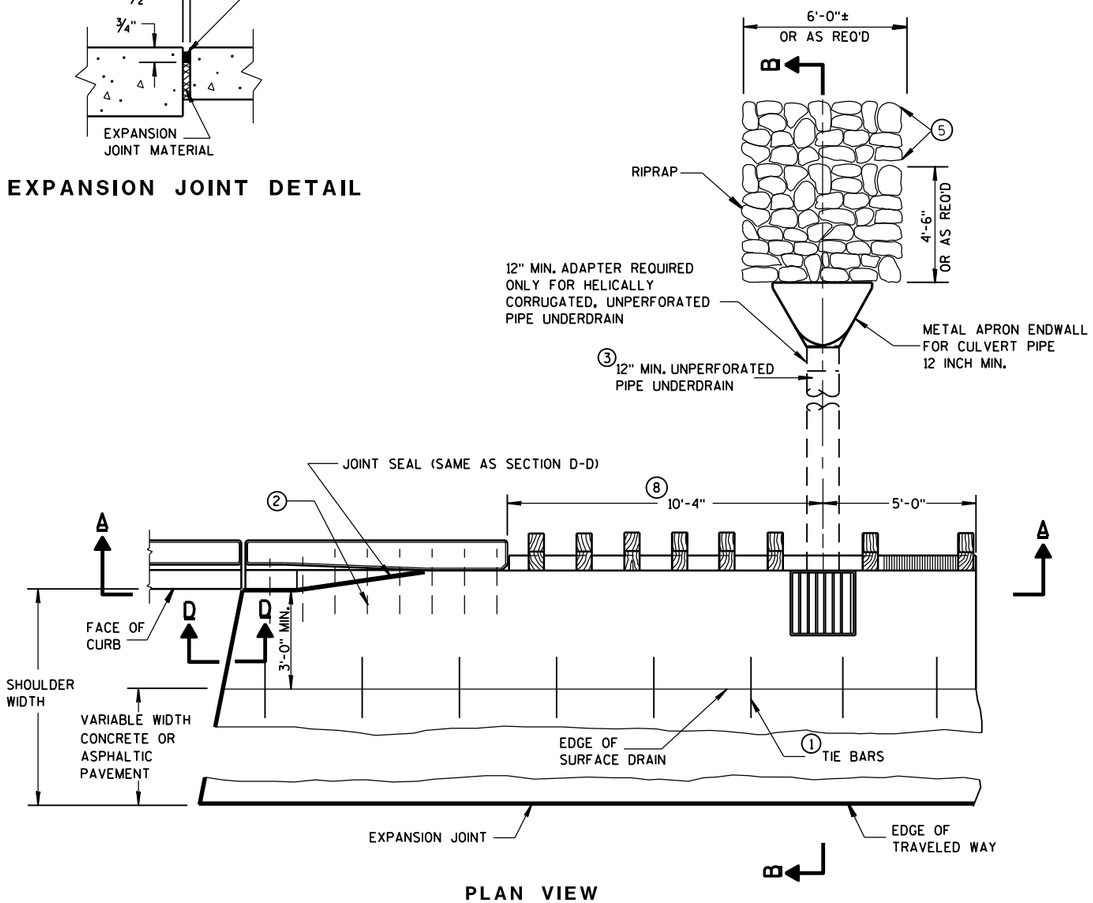
SECTION D-D



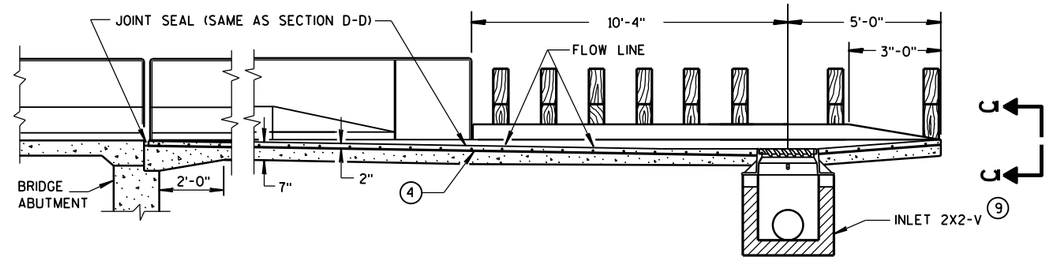
PLAN VIEW



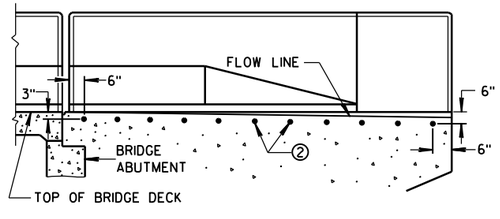
EXPANSION JOINT DETAIL



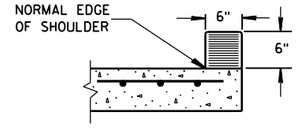
PLAN VIEW



SECTION A-A



LOCATION OF TIE BARS IN WINGWALL



SECTION C-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.

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

(1) NO. 4 X 2'-0" TIE BARS SPACED AT 3'-0" CENTERS TO BE USED ONLY WHEN ADJACENT TO P.C. CONCRETE.

(2) NO. 4 X 2'-0" TIE BARS SPACED AT 12" CENTERS TO BE PLACED BY BRIDGE CONTRACTOR, OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) THE PIPE UNDERDRAIN MAY BE ANY ONE OF THE SIX MATERIALS LISTED IN THE STANDARD SPECIFICATIONS SECTION 612.2 EXCEPT DRAIN TILE.

(4) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.

(5) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(6) GEOTEXTILE FABRIC, TYPE 'R'

(7) HOT POURED SEALANT UNLESS OTHERWISE SPECIFIED.

(8) THIS DIMENSION MAY VARY DEPENDING ON THE SPACING OF POSTS FOR THE STEEL PLATE BEAM GUARD. THE TYPICAL LOCATION FOR THE SURFACE DRAIN IS WHERE THE POST SPACING WIDENS TO 3'-1½".

(9) SEE CURRENT STANDARD DETAIL DRAWINGS 8A5 AND 8C7 FOR DETAILS.

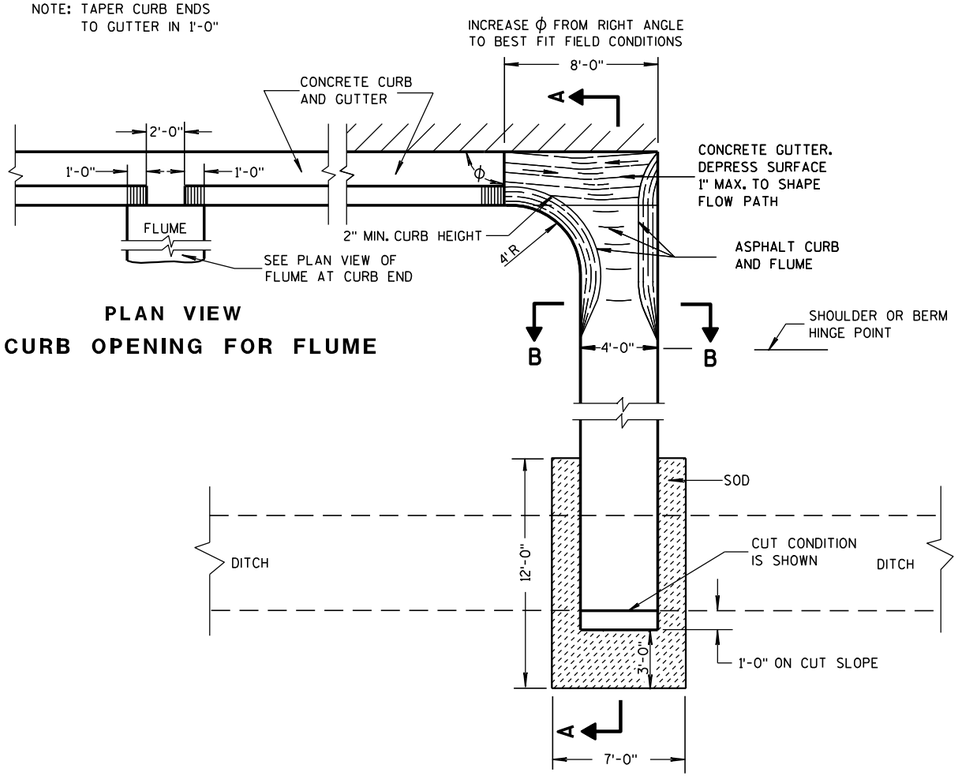
CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

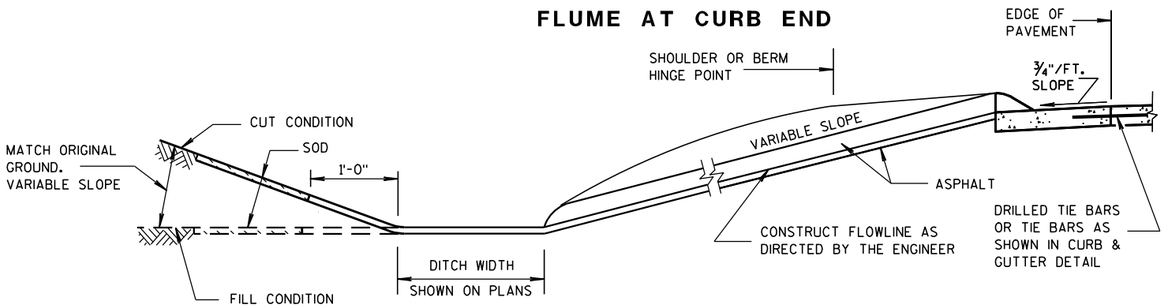
6
S.D.D. 8 D 3-6

ASPHALTIC FLUME

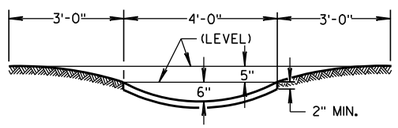


PLAN VIEW
CURB OPENING FOR FLUME

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.

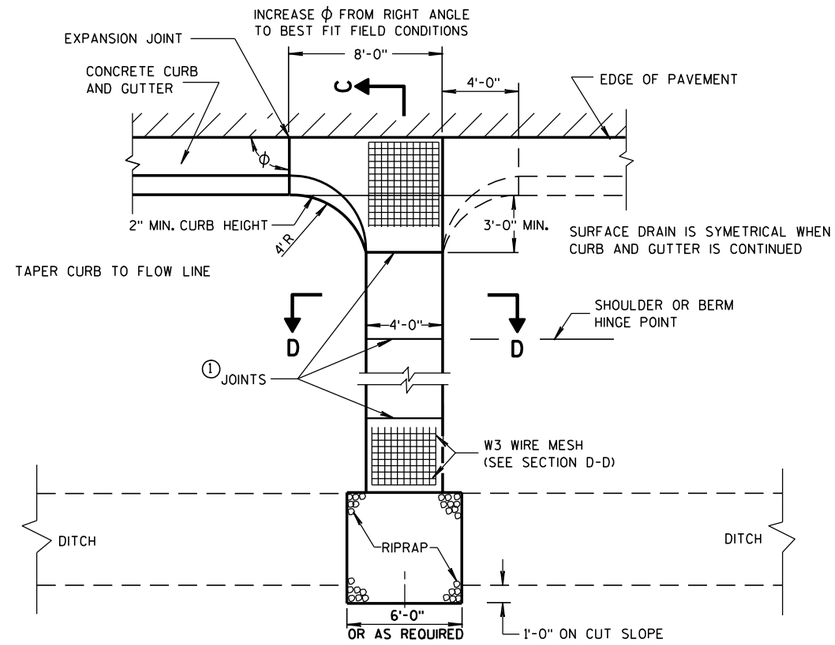
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

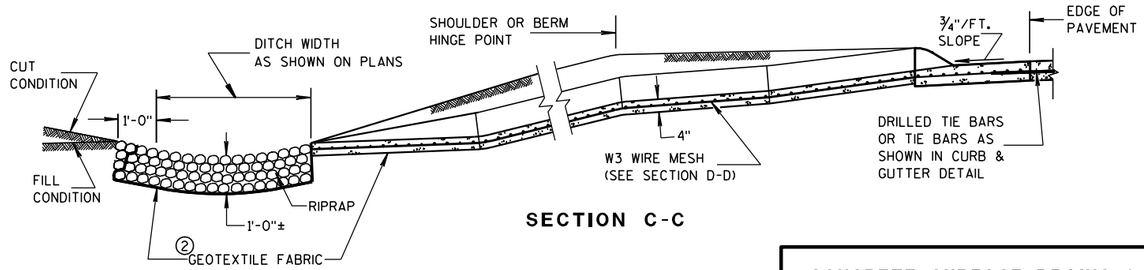
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

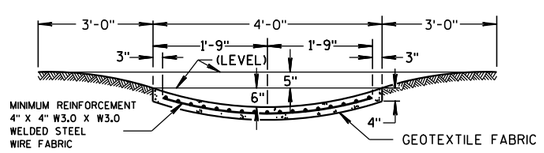
③ CONCRETE SURFACE DRAIN



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. [illegible]
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

S.D.D. 8 D 4-5

6

S.D.D. 8 D 4-5

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) UNPERFORATED PIPE UNDERDRAIN AND FITTINGS FURNISHED FOR OUTFALL PIPE SHALL MEET THE REQUIREMENTS OF ONE OF THE FOLLOWING SPECIFICATIONS:

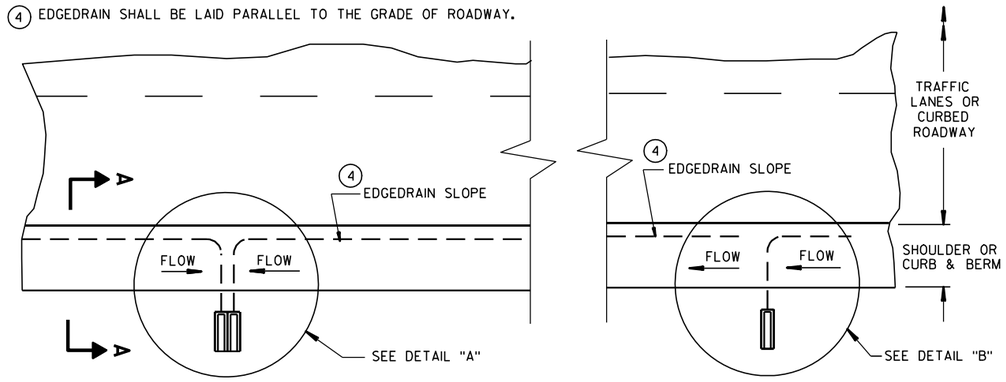
POLYVINYL CHLORIDE (PVC) PLASTIC DRAIN, WASTE, AND VENT PIPE AND FITTINGS, ASTM D 2665, SCHEDULE 40 PVC.

TYPE PSM POLYVINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS, ASTM D 3034, SDR 23.5 PVC SEWER PIPE.

(2) MAXIMUM SPACING OF EDGEDRAIN OUTLETS SHALL BE 250 FEET UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR DIRECTED BY THE ENGINEER.

(3) EDGEDRAIN SHALL BE CONNECTED TO INLETS REGARDLESS OF FLOW DIRECTION FOR DRAINAGE AND MAINTENANCE ACCESS.

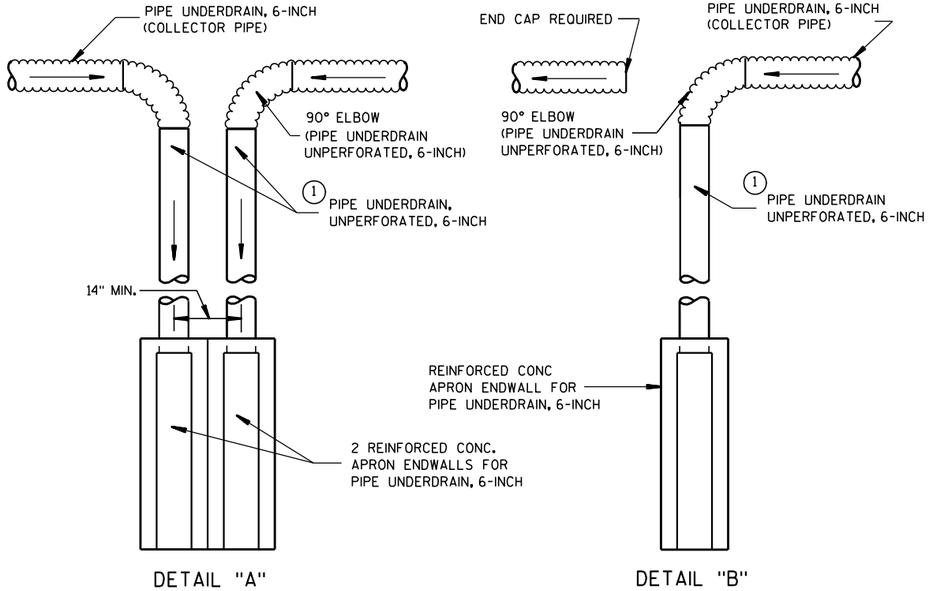
(4) EDGEDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF ROADWAY.



PLAN VIEW

ROADWAY WITH SHOULDERS OR CURBS

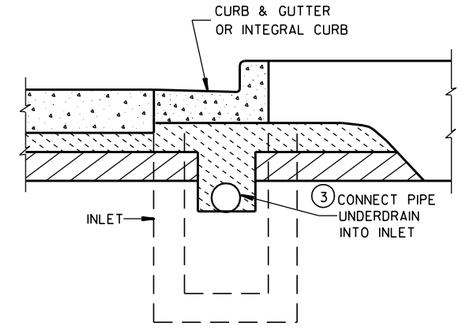
(EDGEDRAIN OUTLETS TO ROADSIDE) (2)



DETAIL "A"
TO BE USED AT LOW POINT LOCATIONS

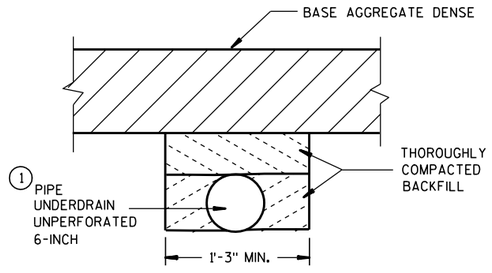
DETAIL "B"
TO BE USED AT INTERMEDIATE LOCATIONS

TYPICAL DRAIN OUT DETAILS



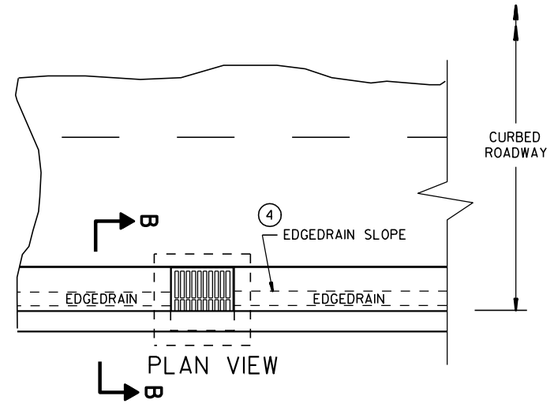
SECTION B-B

URBAN CROSS SECTION



SECTION C-C

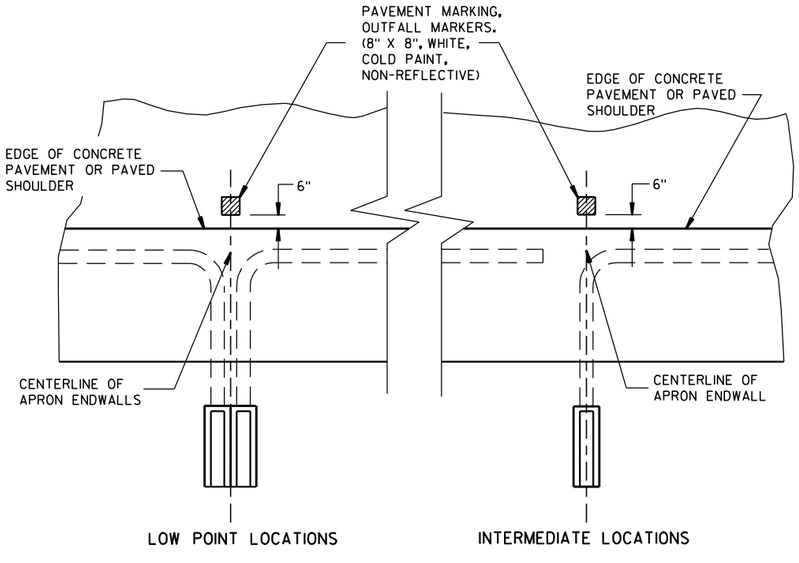
(TRENCH FOR OUTFALL PIPE)



PLAN VIEW

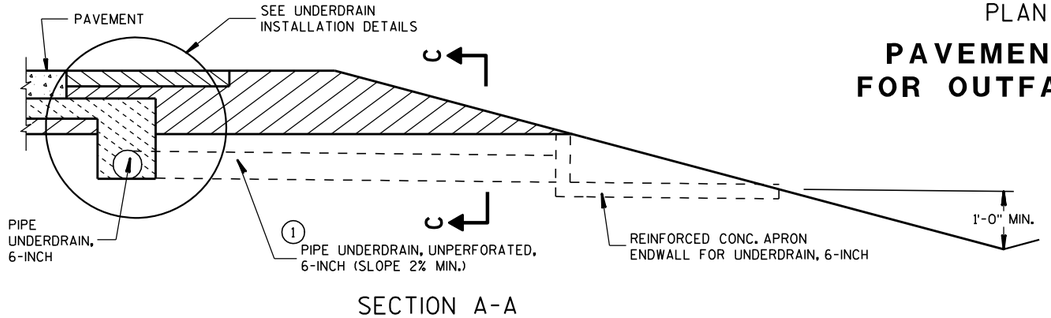
ROADWAY WITH CURBS

(EDGEDRAIN CONNECTS INTO INLET STRUCTURE)



PLAN VIEW

PAVEMENT MARKING FOR OUTFALL MARKERS



SECTION A-A

RURAL CROSS SECTION

EDGEDRAIN OUTLET AND OUTFALL MARKERS

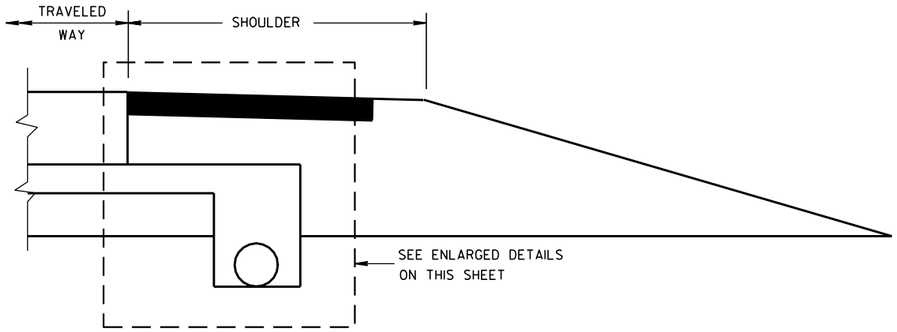
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 15-4a

6

S.D.D. 8 D 15-4a



RURAL CROSS SECTION

GENERAL NOTES

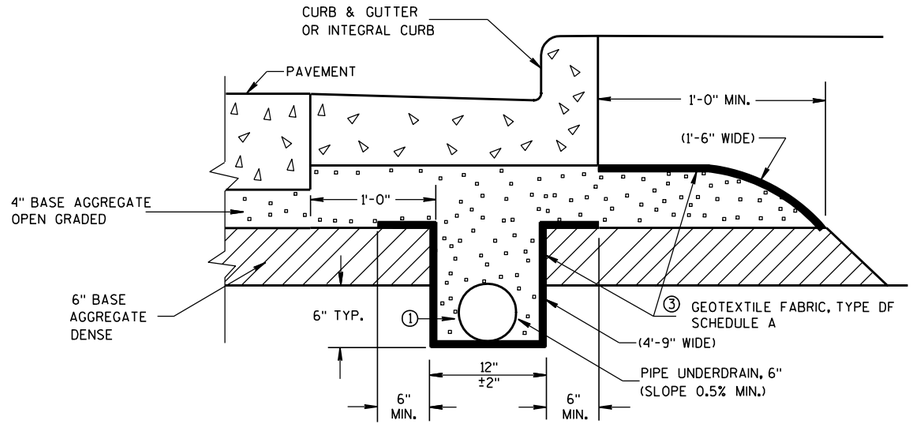
THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

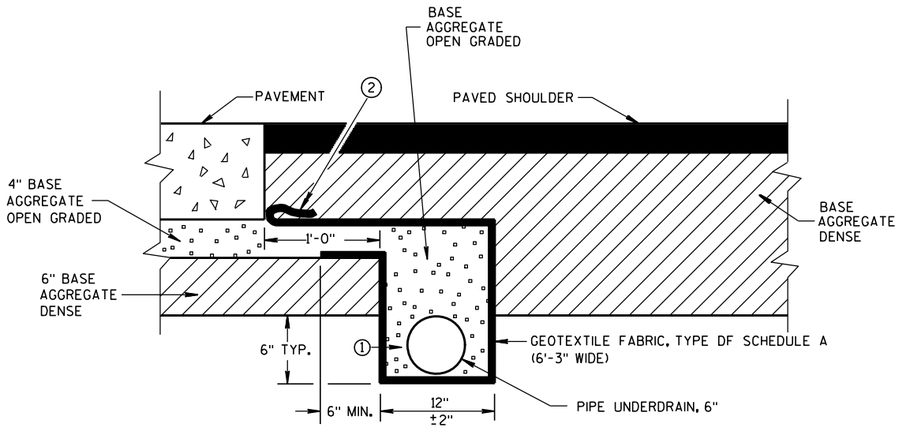
① TRENCH BACKFILL WILL BE PAID FOR AS BASE AGGREGATE OPEN GRADED.

② FOLD OVER EXCESS GEOTEXTILE FABRIC AT THIS LOCATION.

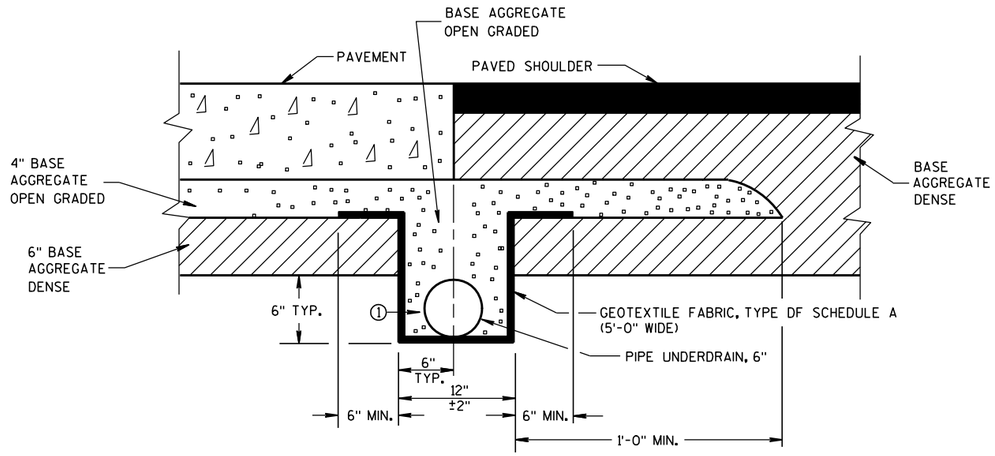
③ TOTAL FABRIC WIDTH IS 6'-3" FOR PAYMENT.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATE

EDGEDRAIN IN RURAL ROADWAY

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

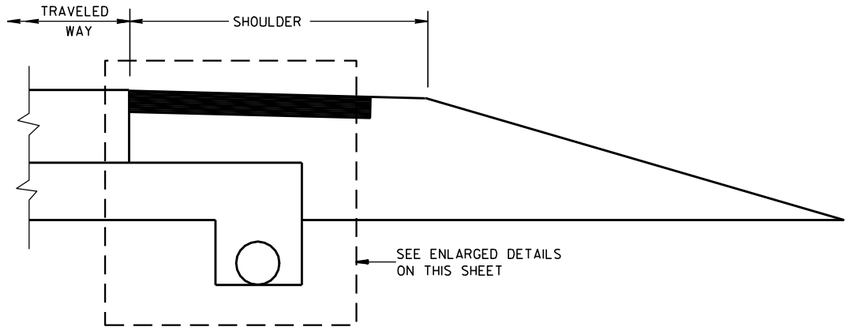
APPROVED

3/21/07 DATE — /S/ Steven W. [illegible] CHIEF MATERIALS MANAGER

FHWA

6

S.D.D. 8 D 15-4b



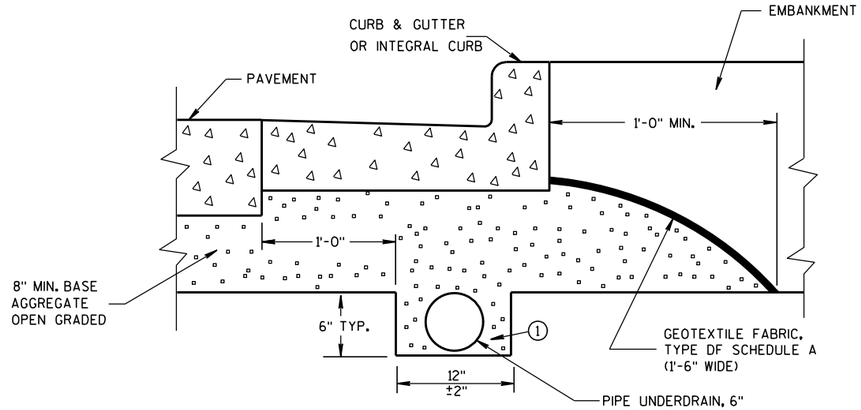
RURAL CROSS SECTION

GENERAL NOTES

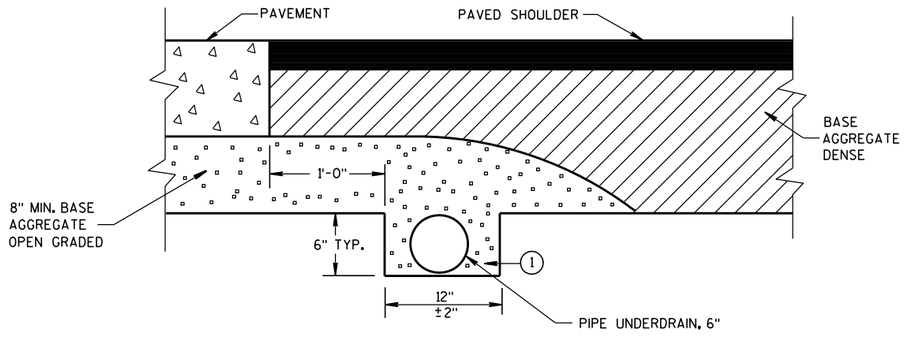
THE DIMENSIONS SHOWN ON THE TYPICAL CROSS SECTIONS WILL GOVERN IN THE EVENT THERE IS A CONFLICT WITH THE DETAILS SHOWN ON THIS DRAWING.

PIPE UNDERDRAIN SHALL BE LAID PARALLEL TO THE GRADE OF THE ROADWAY.

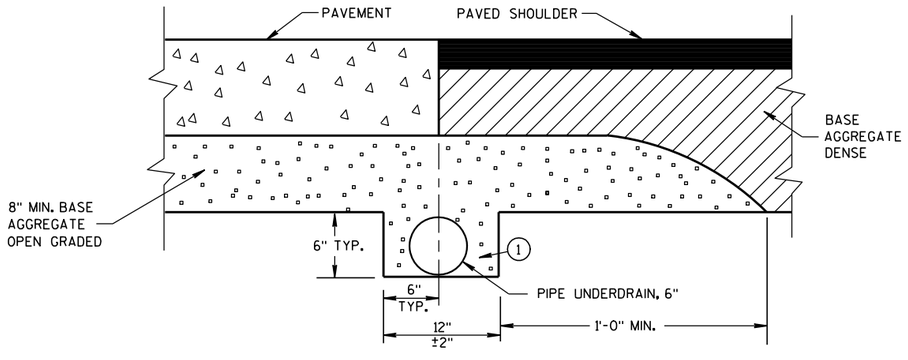
(1) TRENCH BACKFILL WILL BE PAID FOR AS BASE AGGREGATE OPEN GRADED.



EDGEDRAIN IN URBAN ROADWAY



POST PAVING INSTALLATION
(QUANTITIES ARE BASED ON THIS DETAIL)



PRE-PAVING INSTALLATION ALTERNATIVE

EDGEDRAIN IN RURAL ROADWAY

EDGEDRAIN AND BASE AGGREGATE OPEN GRADED

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

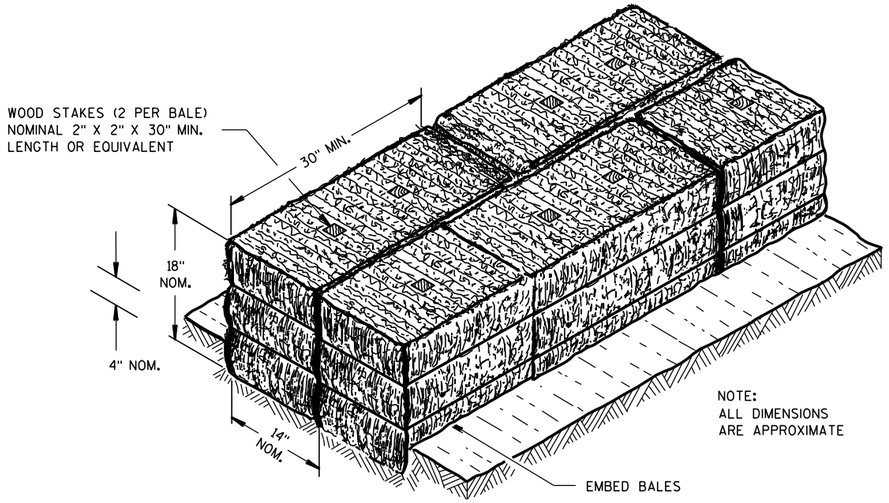
APPROVED
3/21/07 DATE
/S/ Steven W. Krebs
CHIEF MATERIALS MANAGER
352
FHWA

6

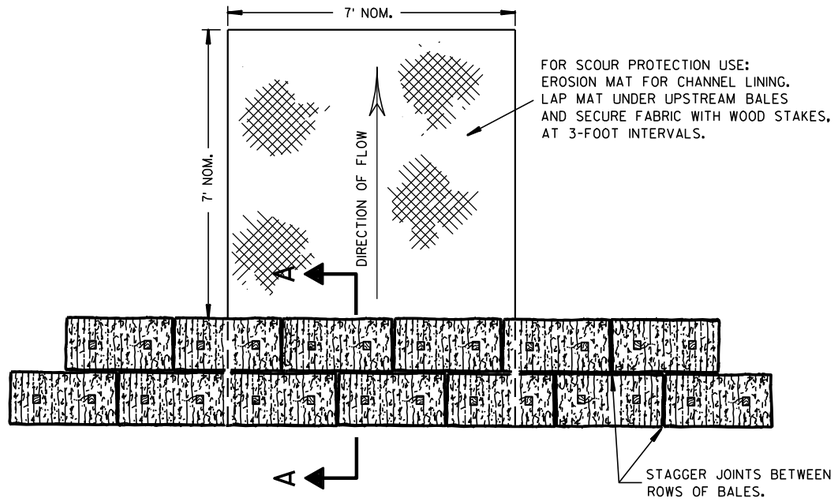
S.D.D. 8 D 15-4c

6

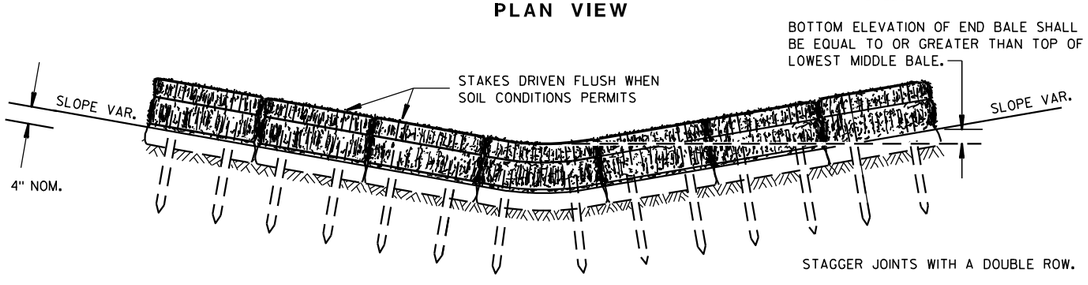
S.D.D. 8 D 15-4c



SECTION A-A



PLAN VIEW



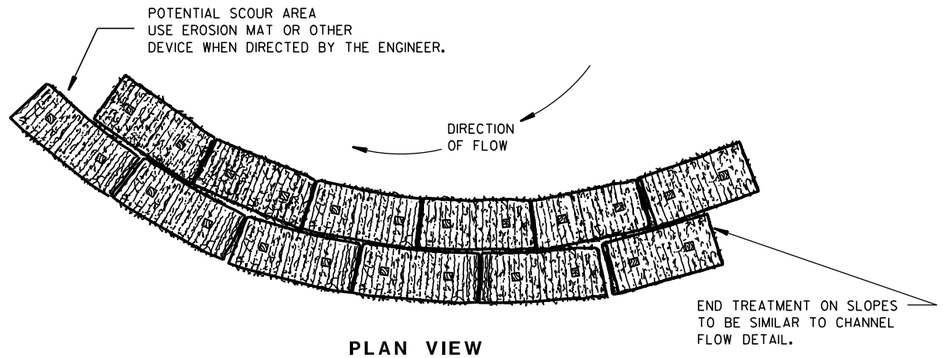
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

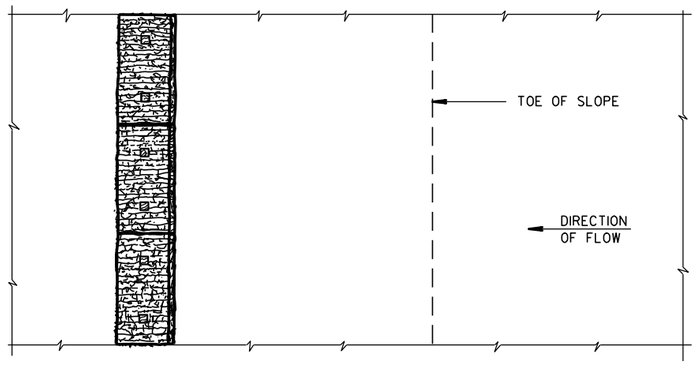
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

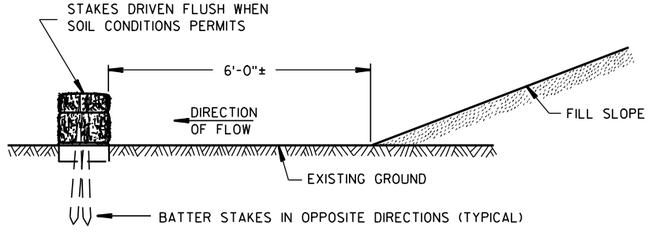


PLAN VIEW

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

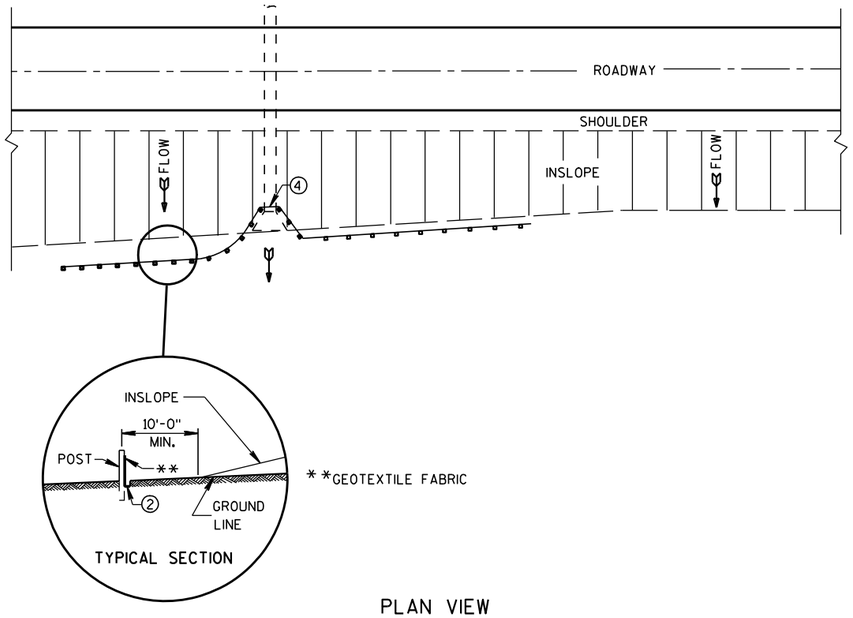
6/04/02 — DATE

/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

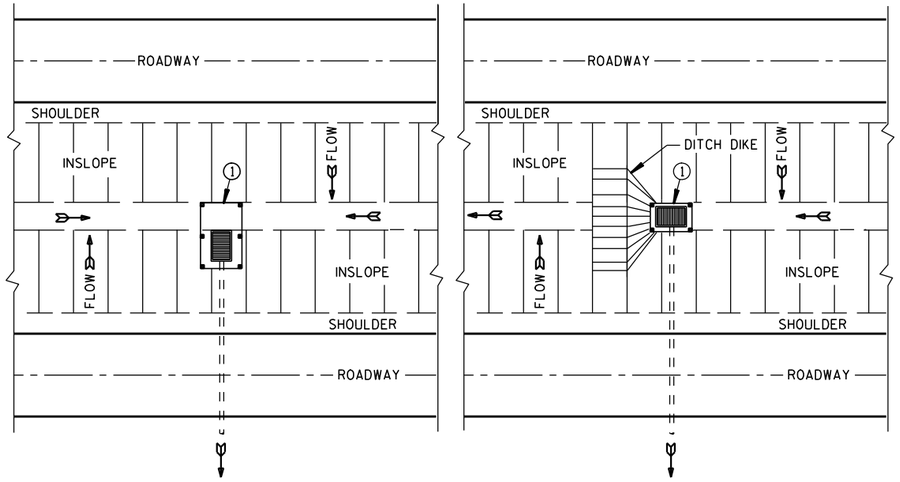
6

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.

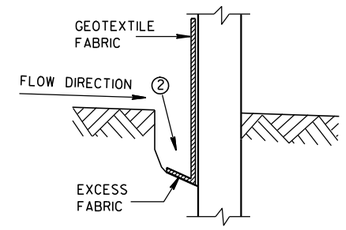
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

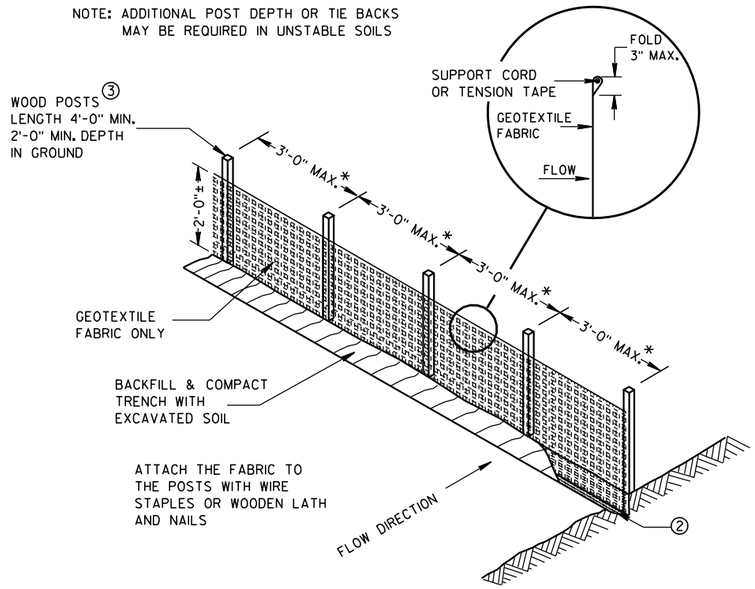
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

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.

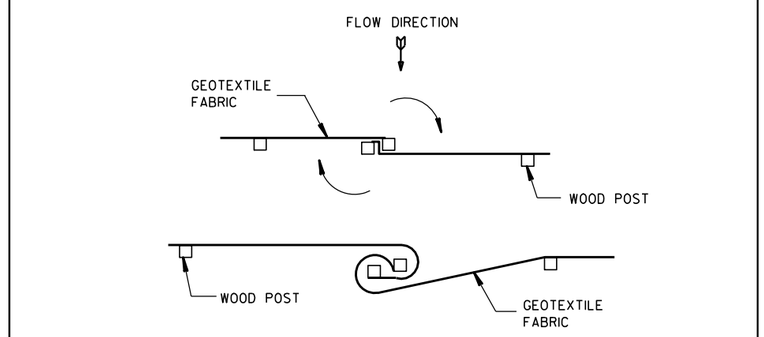


TRENCH DETAIL

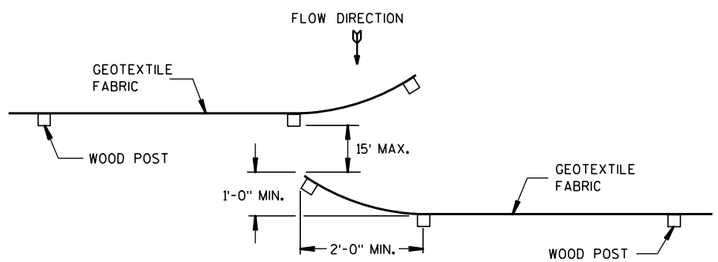


*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

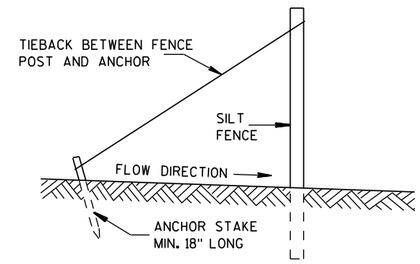


TWIST METHOD



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

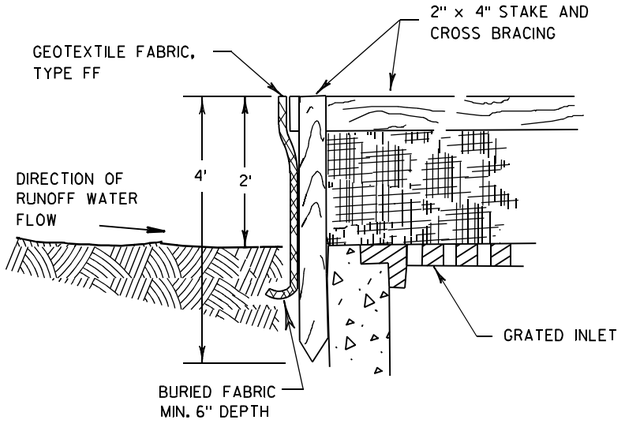
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

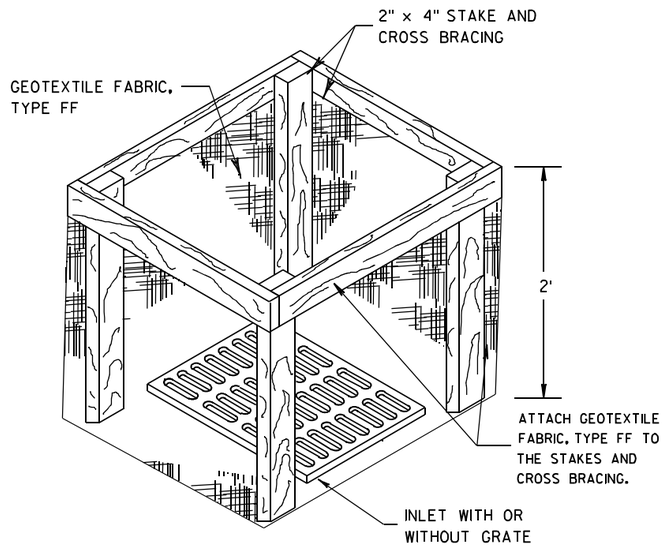
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S.D.D. 8 E 9-6

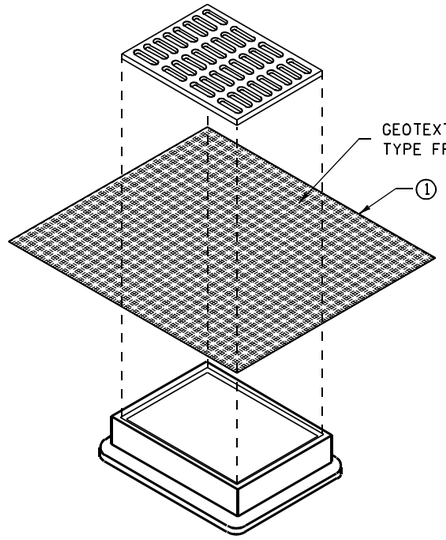
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S.D.D. 8 E 9-6



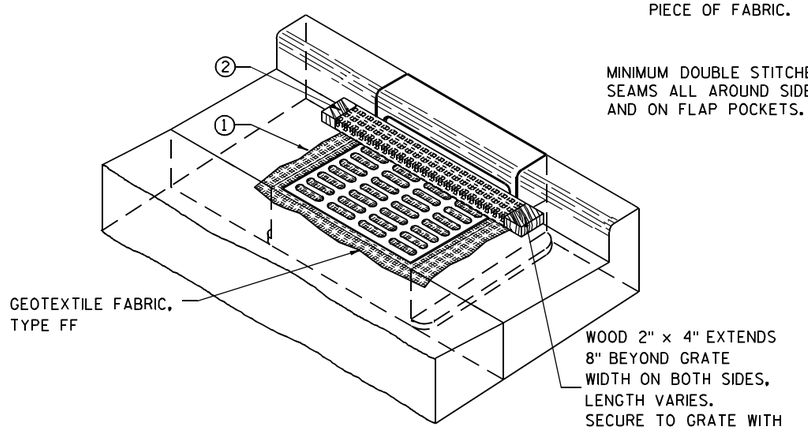


INLET PROTECTION, TYPE A

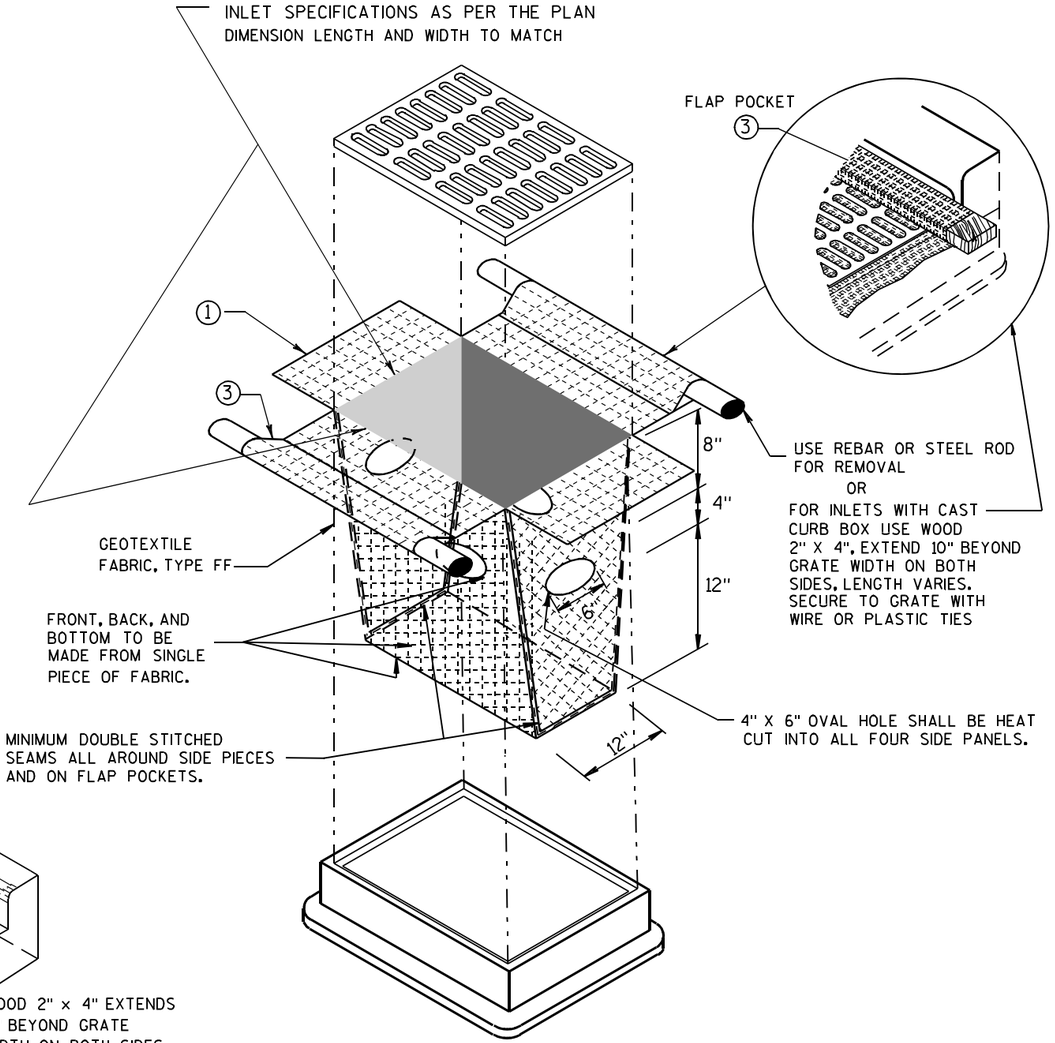


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

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

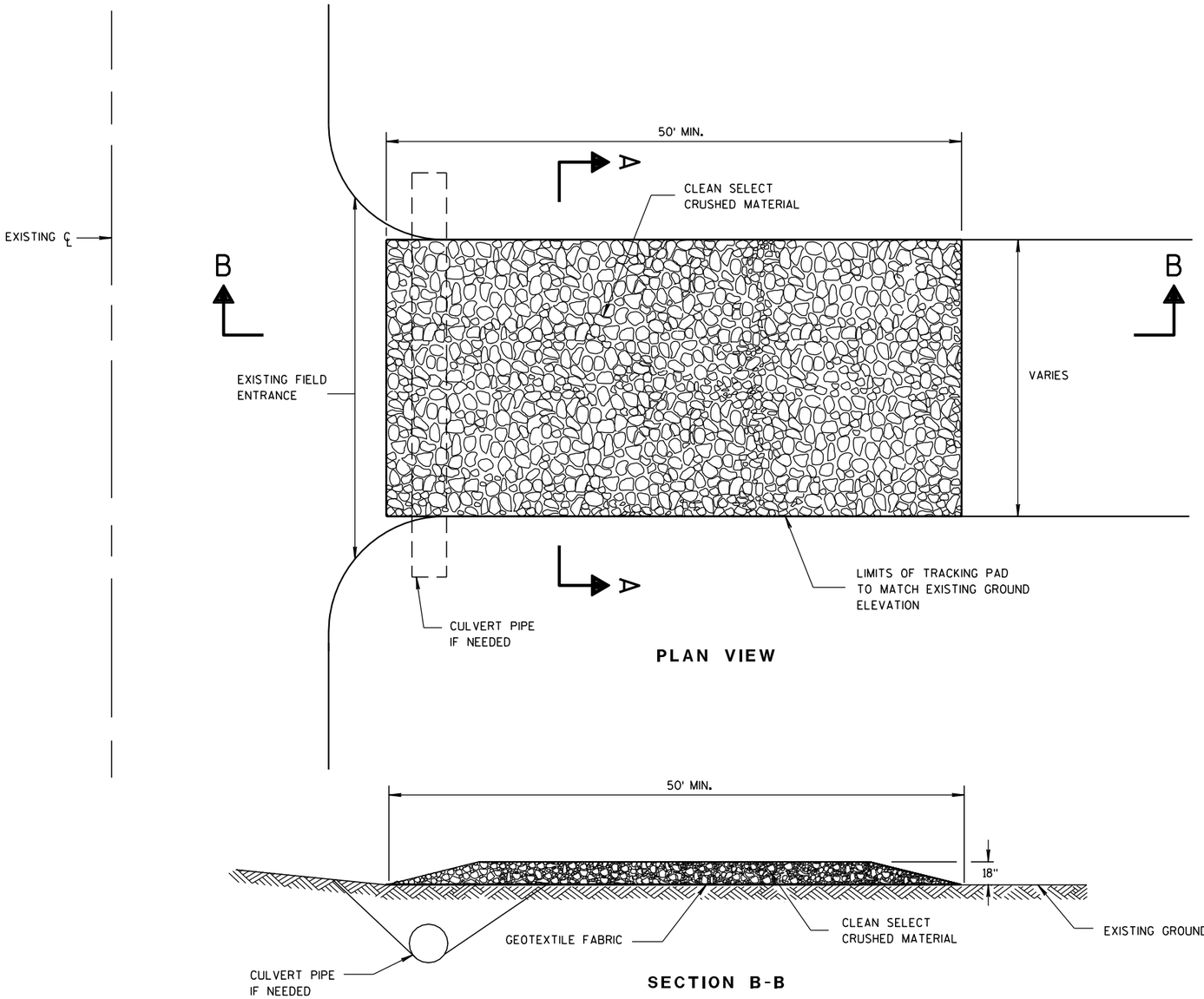
FHWA

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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.

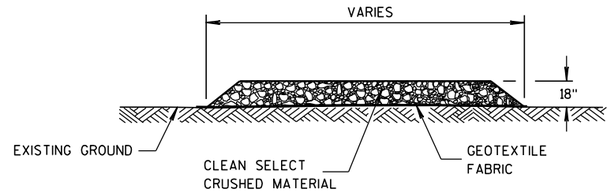
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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
356
ENT
FHWA

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S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

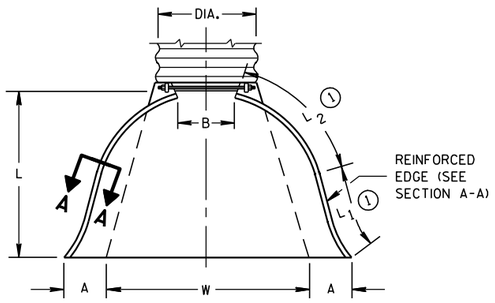
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

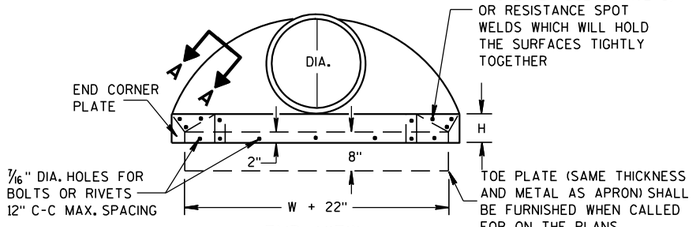
REINFORCED CONCRETE APRON ENDWALLS

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

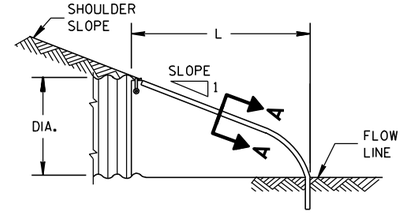
*MINIMUM
**MAXIMUM



PLAN VIEW

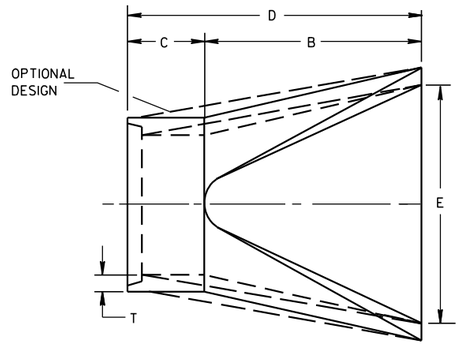


END VIEW

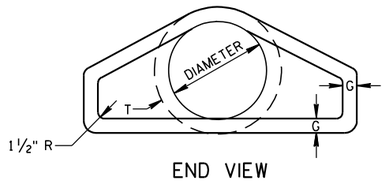


SIDE ELEVATION

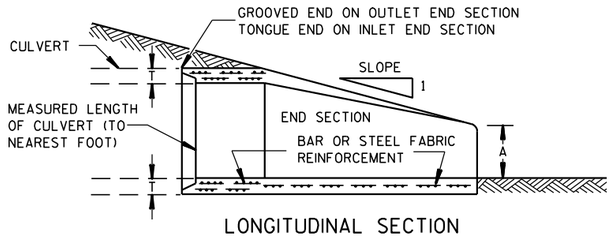
METAL ENDWALLS



PLAN

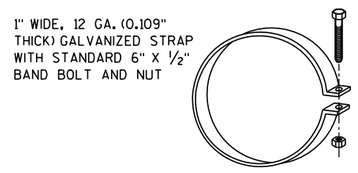


END VIEW



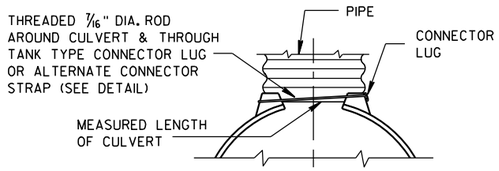
LONGITUDINAL SECTION

CONCRETE ENDWALLS

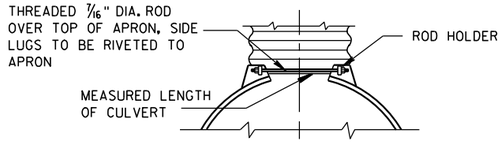


ALTERNATE FOR TYPE 1 CONNECTION

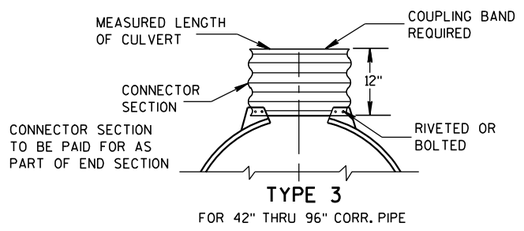
END SECTION CONNECTOR STRAP



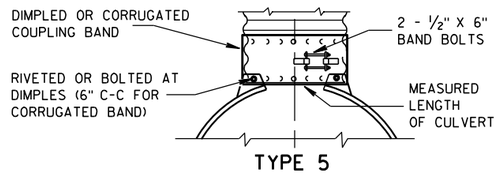
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

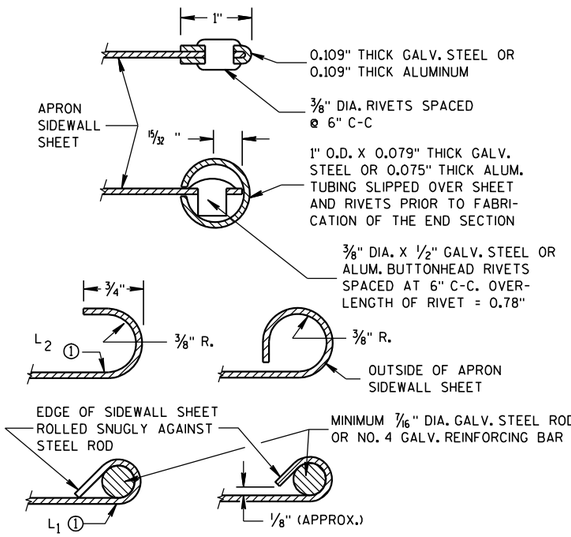
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

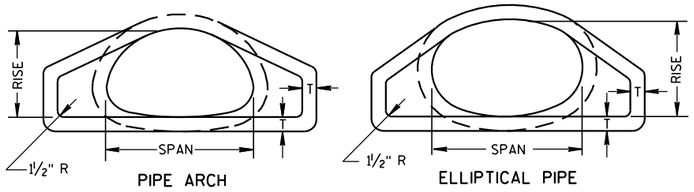
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

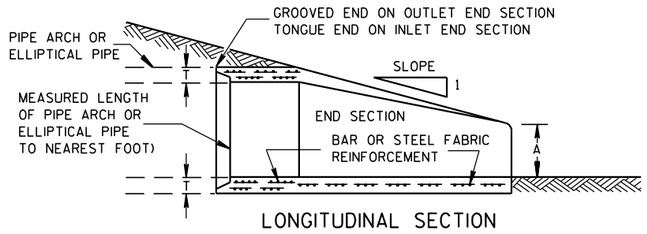
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

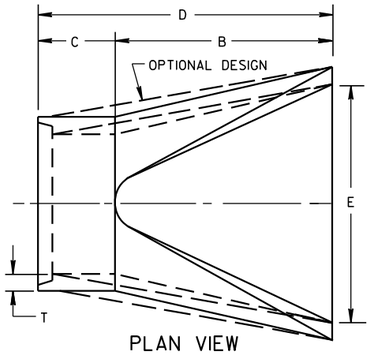
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



END VIEW

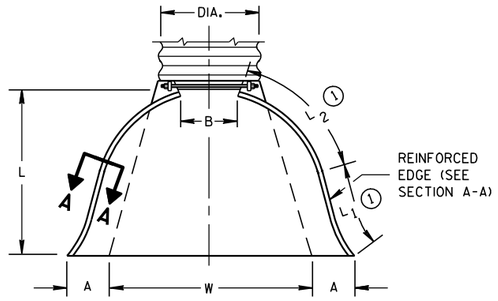


LONGITUDINAL SECTION

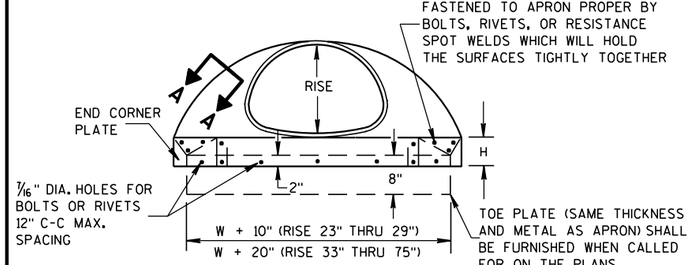


PLAN VIEW

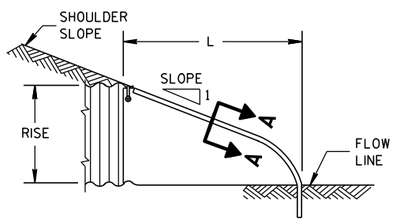
CONCRETE ENDWALLS



PLAN VIEW

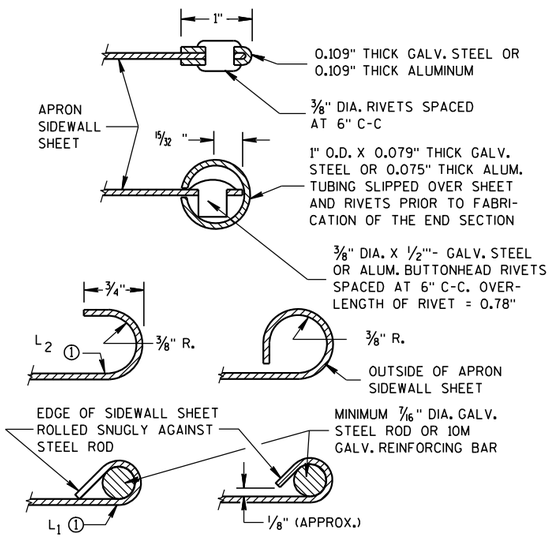


END VIEW



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

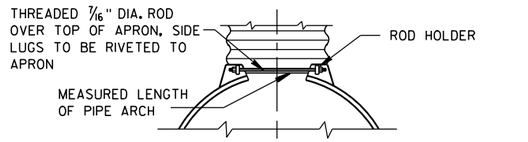
REINFORCED CONCRETE PIPE ARCH

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

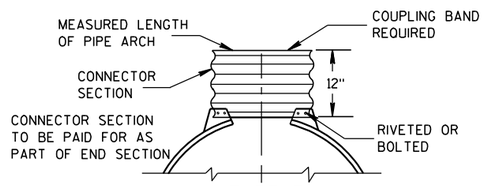
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



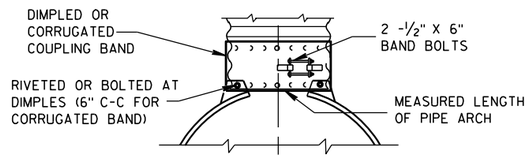
TYPE 2

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

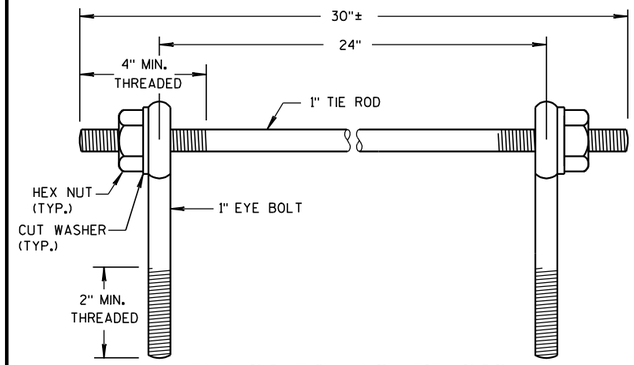
FHWA

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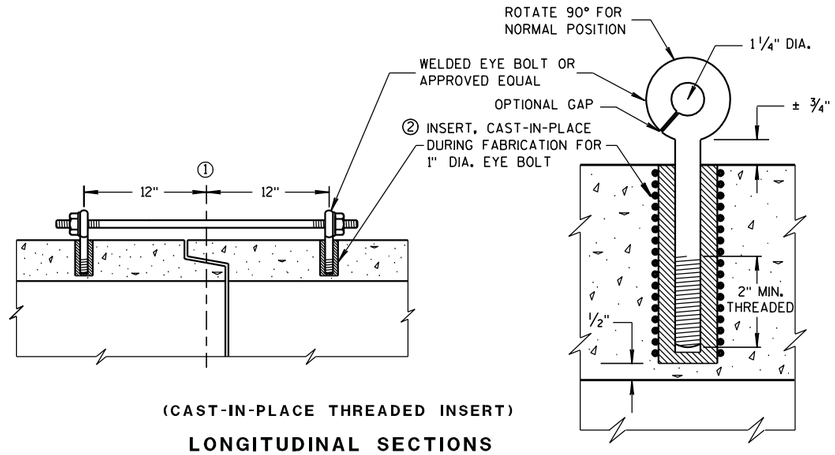
S.D.D. 8 F 2-1

6

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.

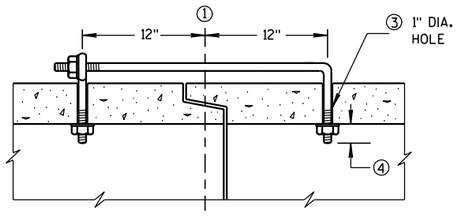
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

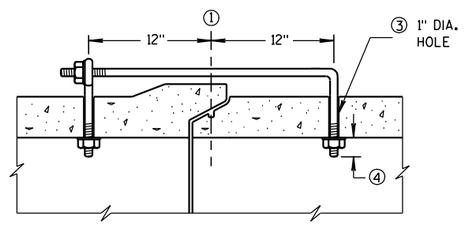
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

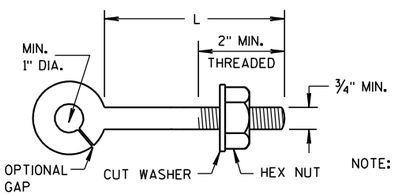


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

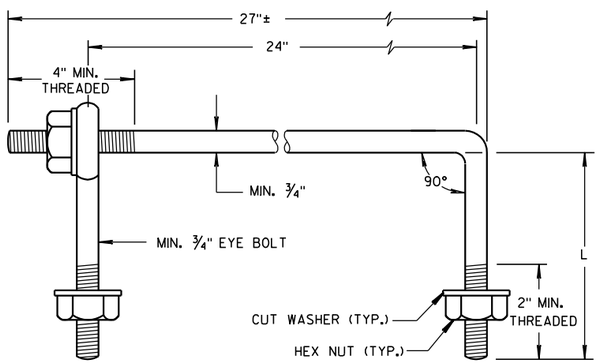
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

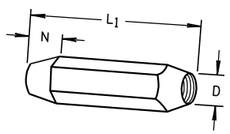
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

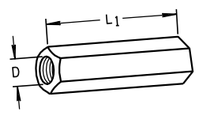
ADJUSTABLE TIE ROD TABLE

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 1/16

DIMENSIONS SHOWN ARE IN INCHES



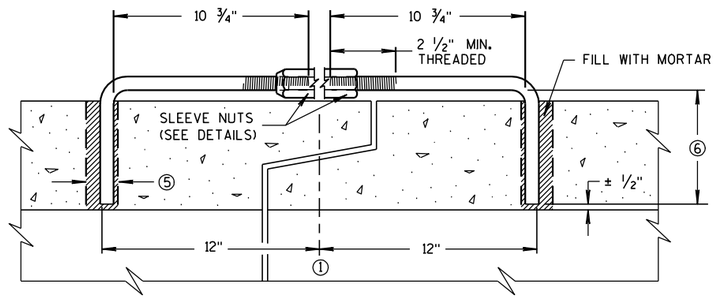
TAPERED



PLAIN

RIGHT AND LEFT THREADS

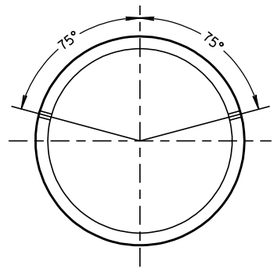
SLEEVE NUTS



LONGITUDINAL SECTION

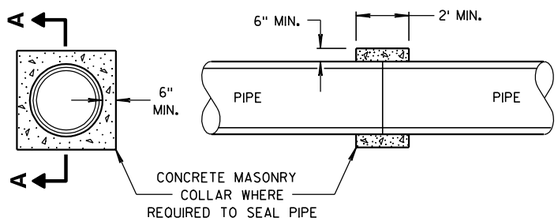
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

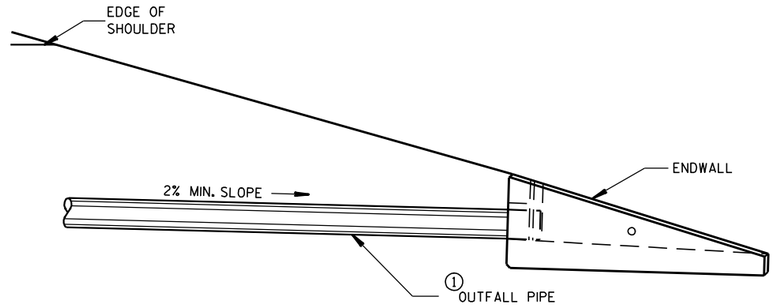
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
359
FHWA

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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.

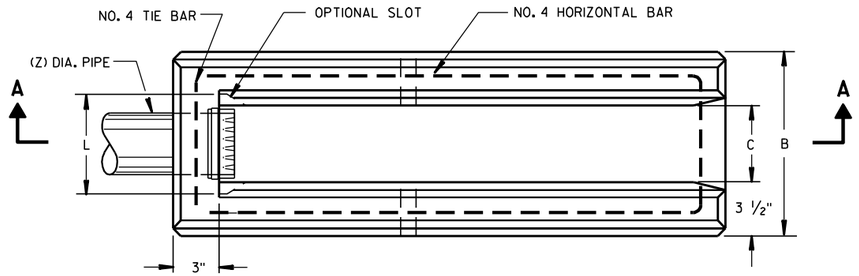
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

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.

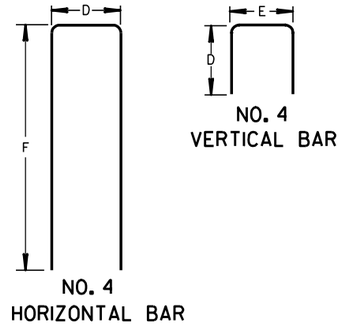
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE 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.

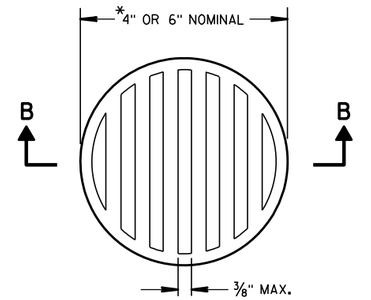
② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



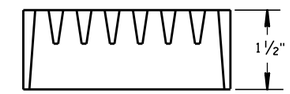
PLAN VIEW



BAR STEEL REINFORCEMENT DETAILS



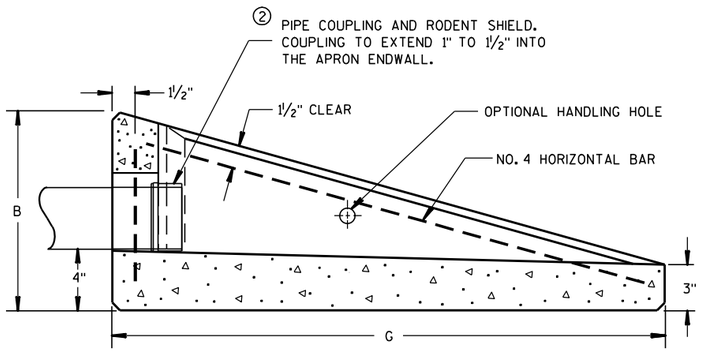
NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



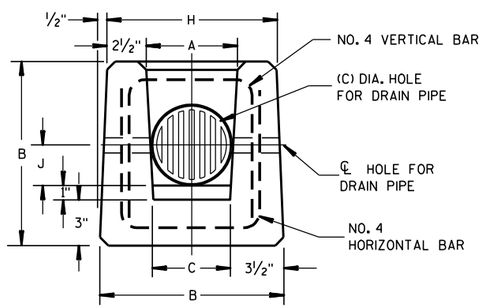
SECTION B-B

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

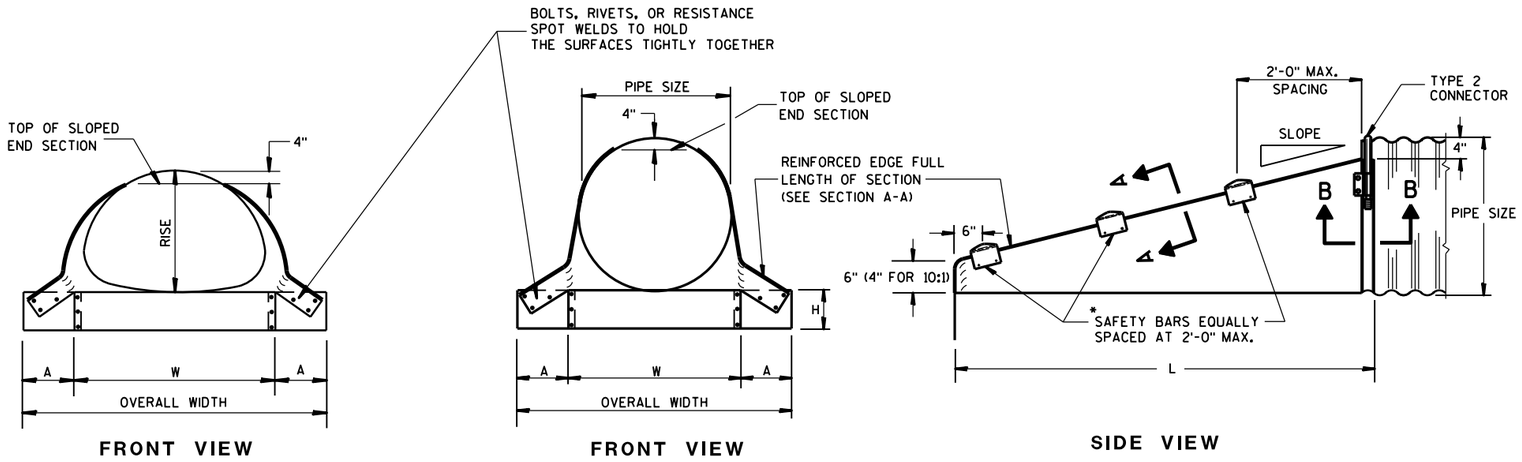
REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/10/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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FRONT VIEW

FRONT VIEW

SIDE VIEW

GENERAL NOTES

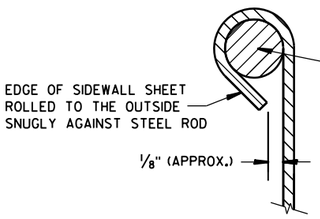
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS

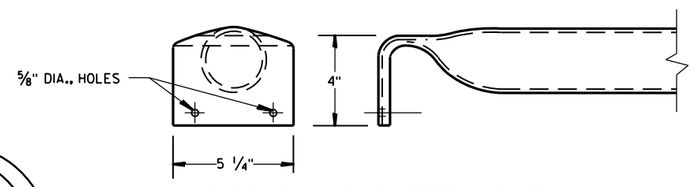
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

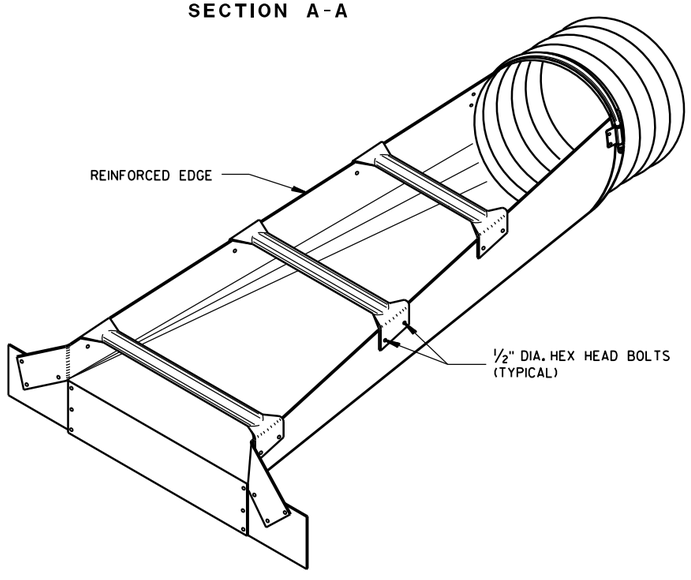


DETAIL OF SAFETY BAR

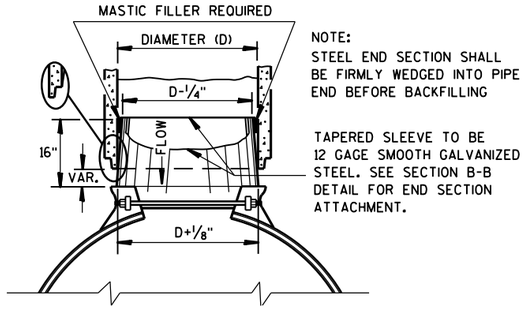
STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

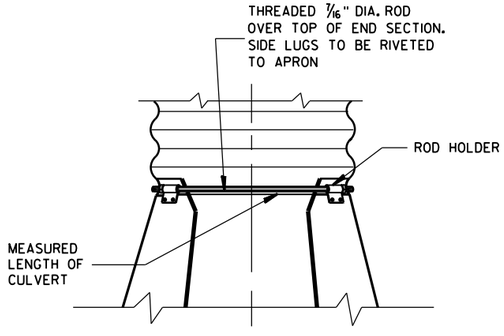
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



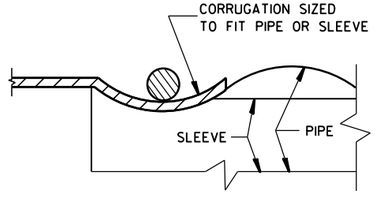
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2 CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

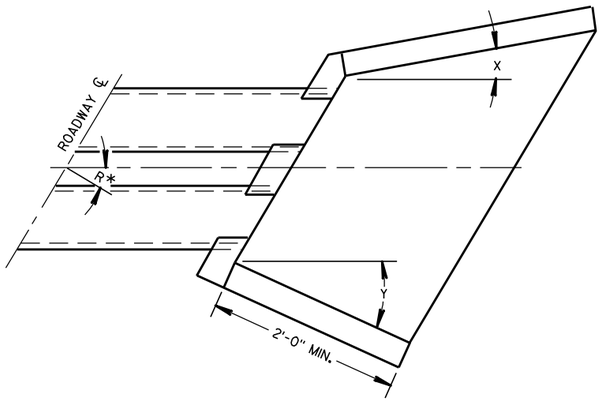
APPROVED
9/14/2012 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 F 7-5

6

S.D.D. 8 F 7-5



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

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.

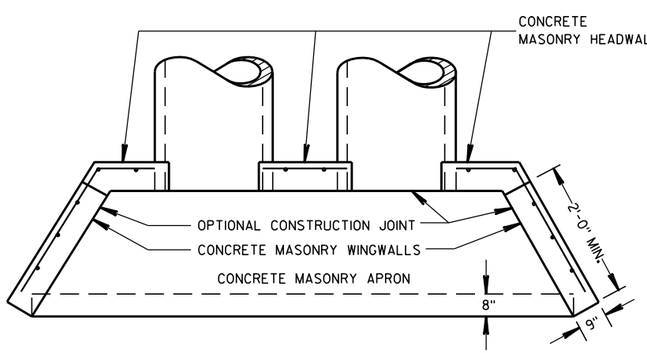
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

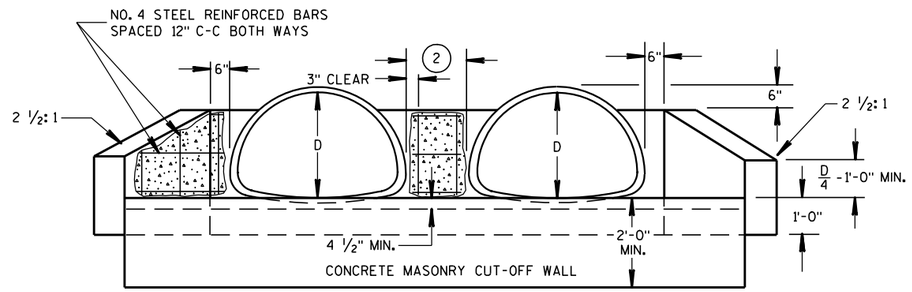
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



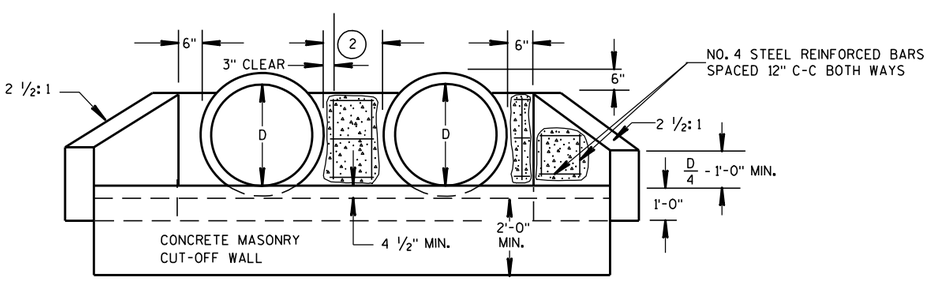
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



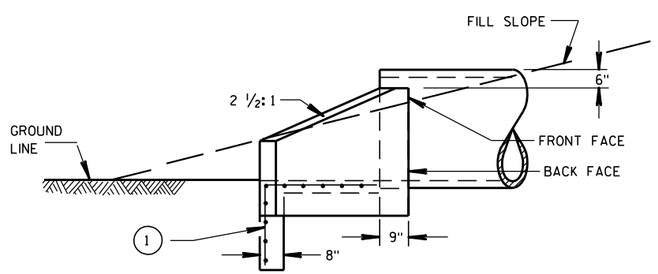
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

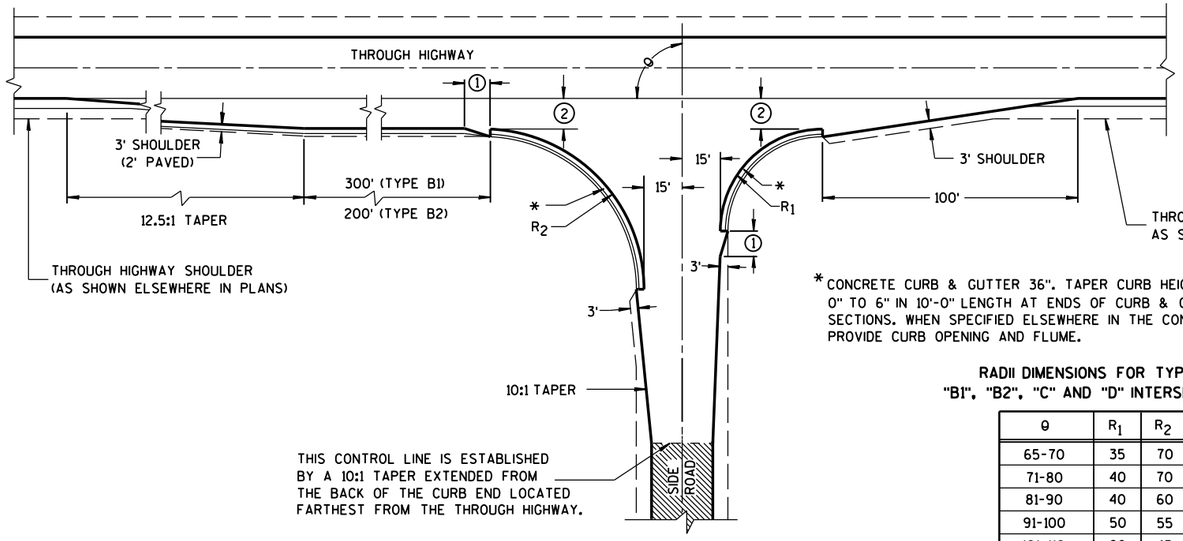
CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/14/98 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 10-1

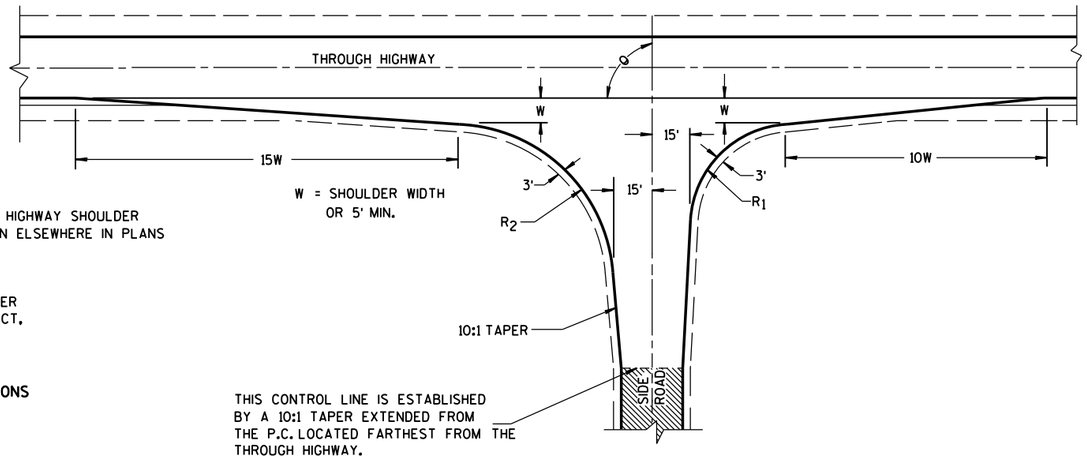


TYPE "B1" AND "B2"

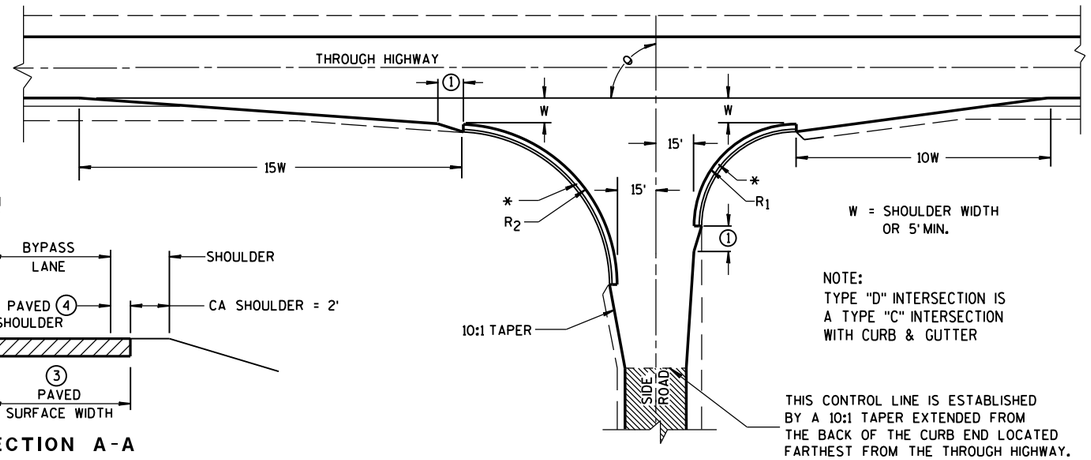
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

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

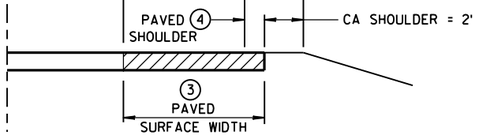
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

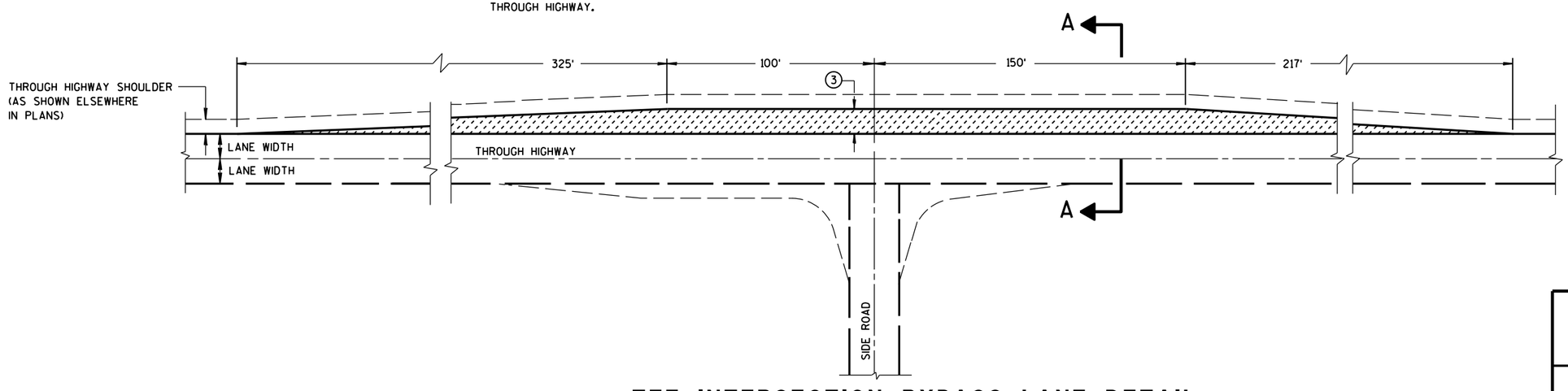
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(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)



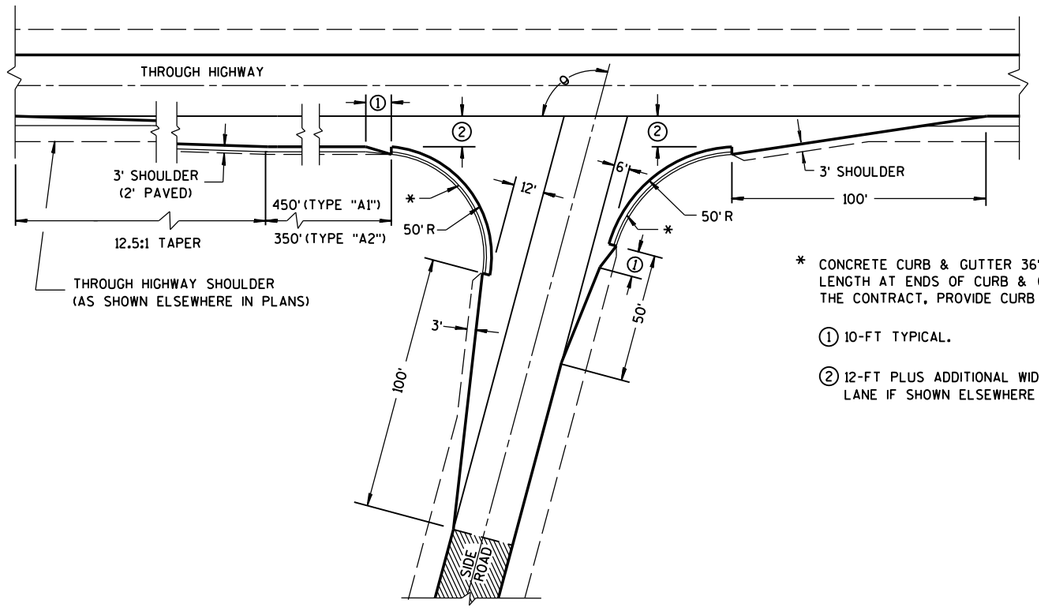
TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND "D" AND TEE INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 9 A 1-13a



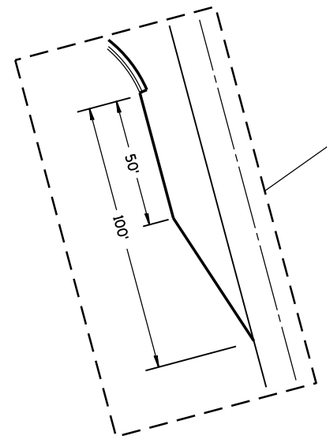
θ = MORE THAN 80°

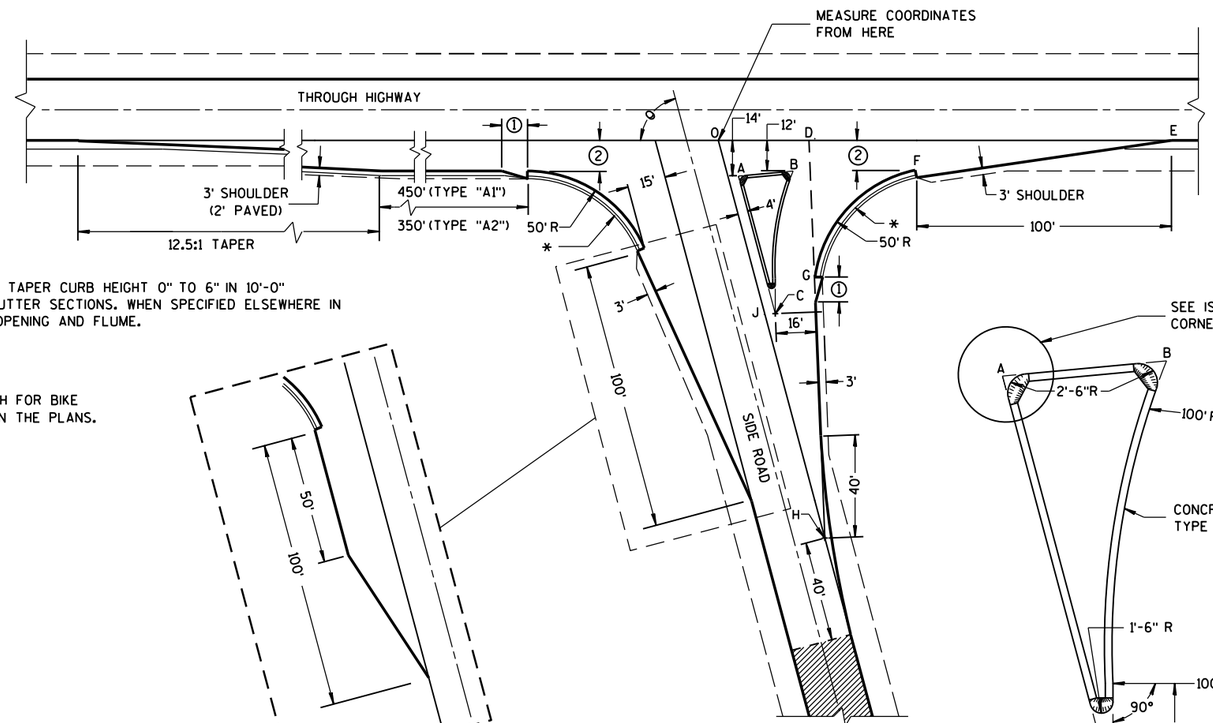
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

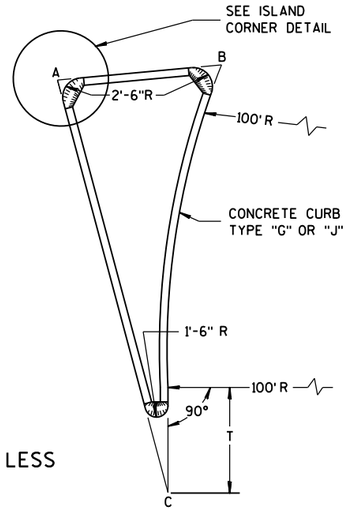
② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

EXISTING PAVED SURFACE





θ = ACUTE ANGLES 80° OR LESS

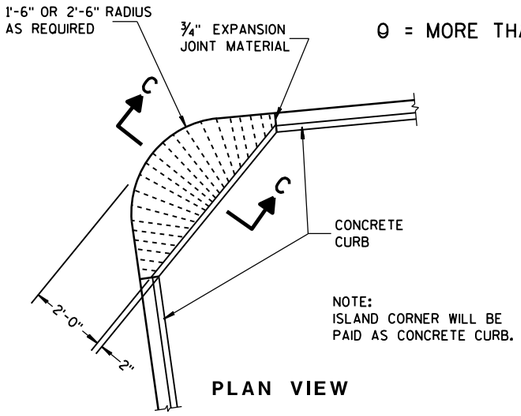


SIDE ROAD WIDENING AND TAPER REQUIRED WHERE
THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

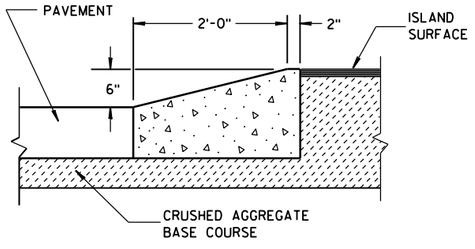
ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O") X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 0.0	196.1 / 0.0	95.7 / -12.0	54.1 / -71.5	70.5 / -151.3	28.2	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.9 / -12.0	29.8 / -70.1	37.4 / 0.0	188.3 / 0.0	87.8 / -12.0	45.6 / -67.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.3 / -12.0	22.3 / -67.9	35.7 / 0.0	181.2 / 0.0	80.7 / -12.0	38.2 / -63.4	41.8 / -155.9	21.5	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.4 / -12.0	15.6 / -65.2	34.4 / 0.0	174.8 / 0.0	74.4 / -12.0	31.8 / -59.3	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9

TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS



NOTE:
ISLAND CORNER WILL BE
PAID AS CONCRETE CURB.

PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

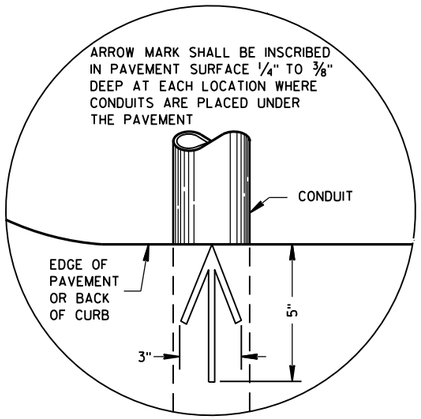
APPROVED
12/18/12 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 9 A 1-13b

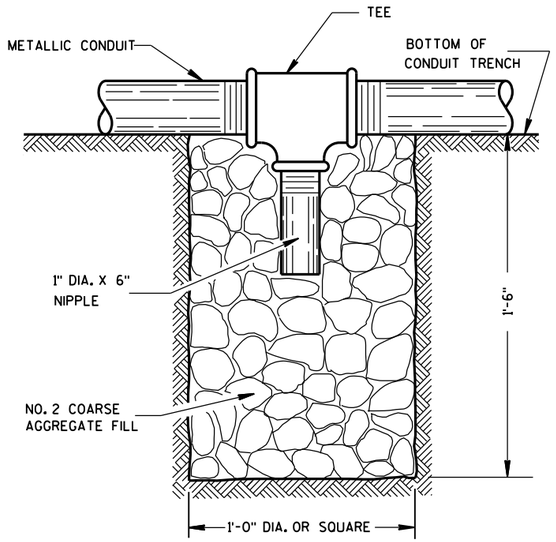
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S.D.D. 9 A 1-13b



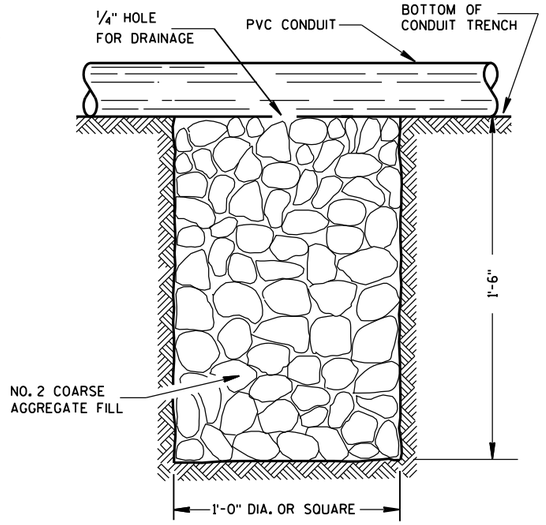
PLAN VIEW

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.

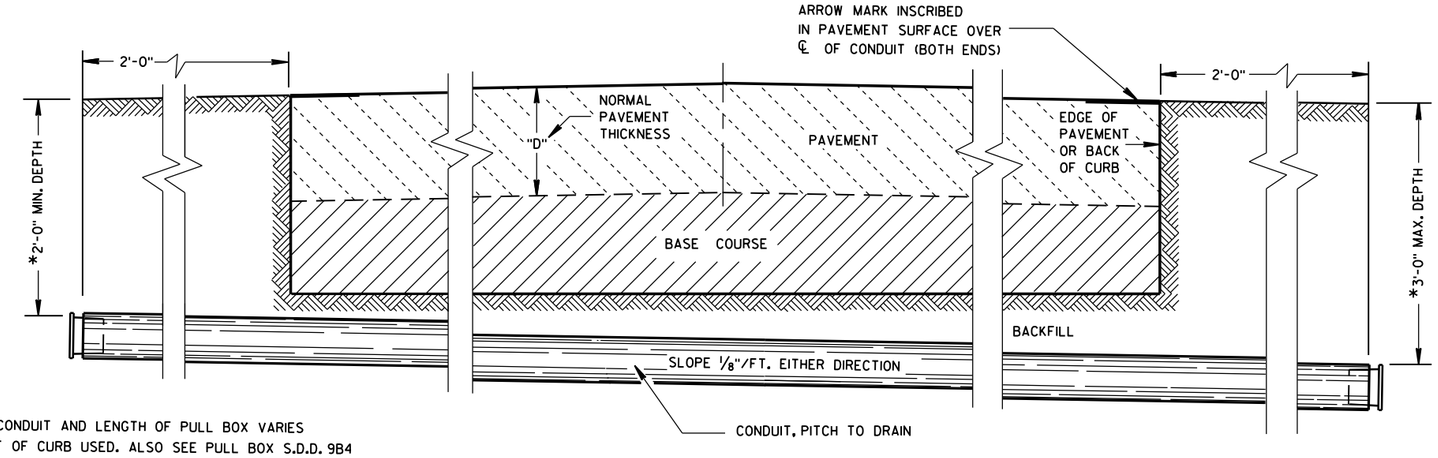
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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 UNDER PAVED HIGHWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2014 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL 365

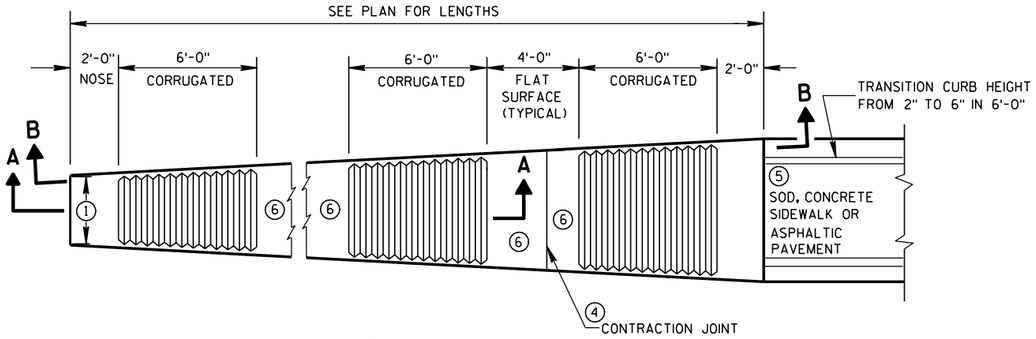
FHWA

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S.D.D. 9 B 2-8

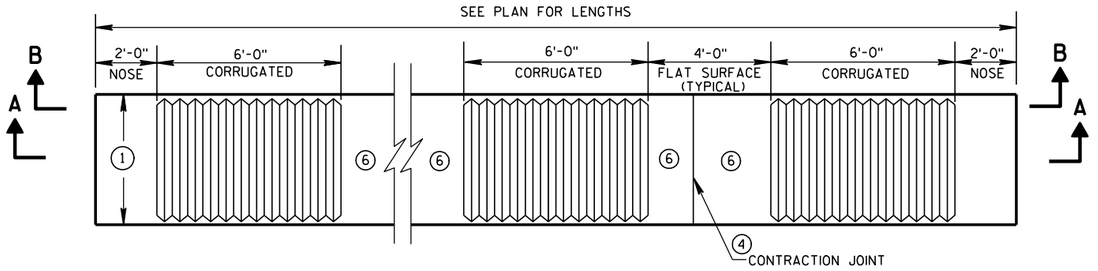
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S.D.D. 9 B 2-8



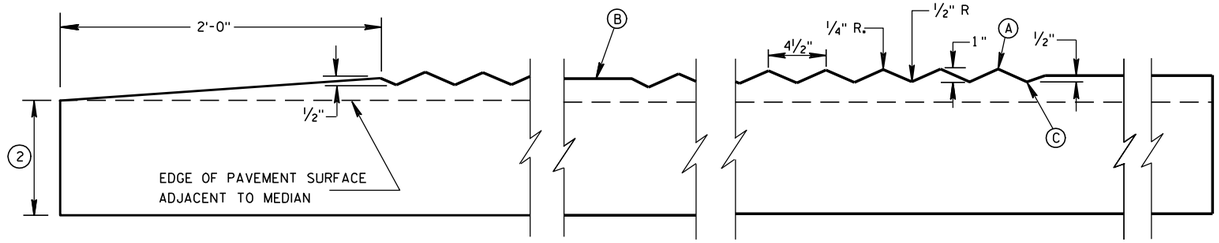
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION

GENERAL NOTES

(1) SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

(2) THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.

ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.

(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.

(3) 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.

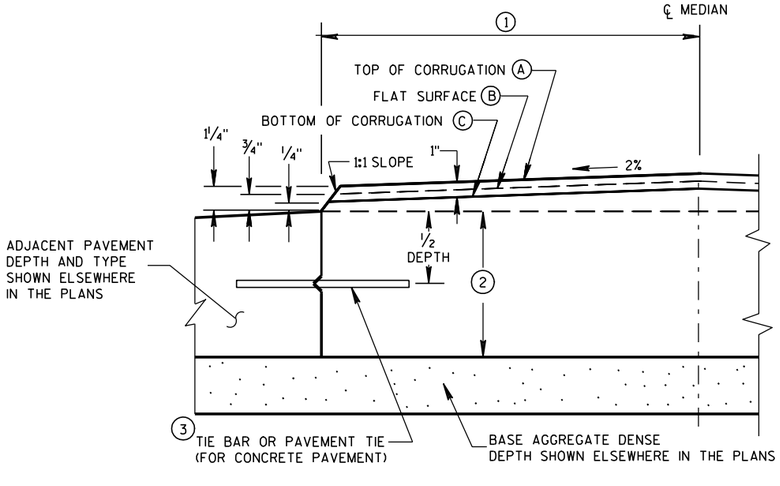
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR 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.

(4) CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.

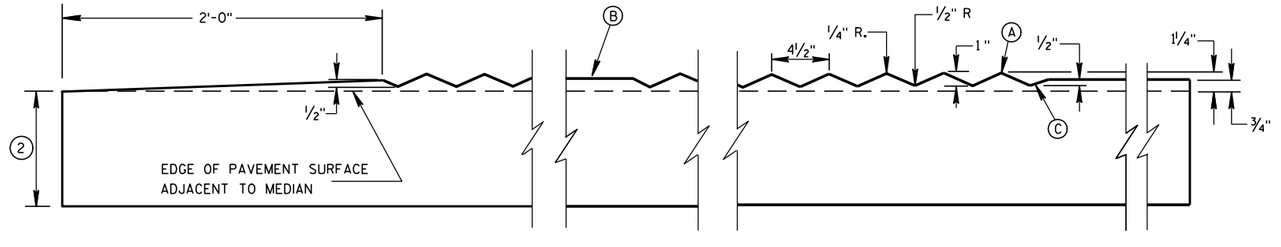
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(6) YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

(2) CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B

LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

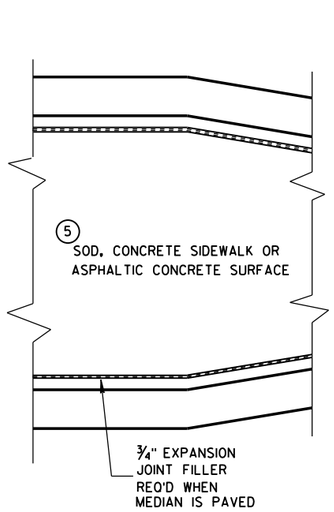
FHWA

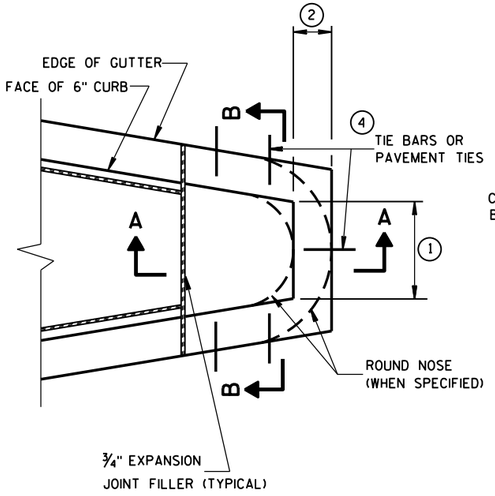
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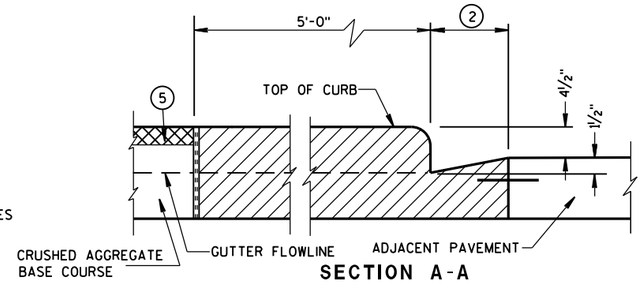
S.D.D. 11 B 1-5

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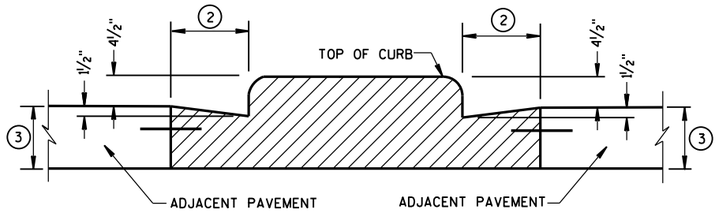
S.D.D. 11 B 1-5







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.

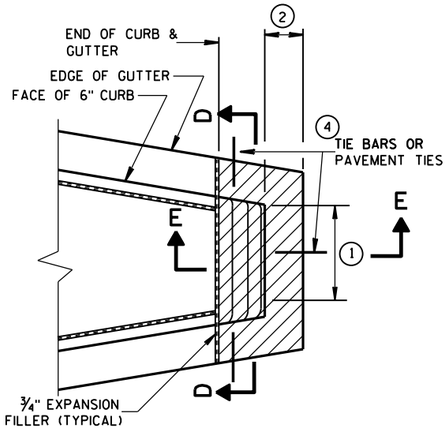
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

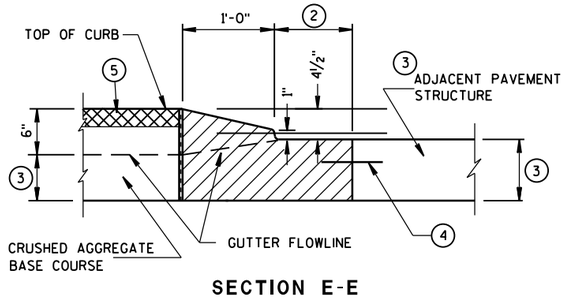
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(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.

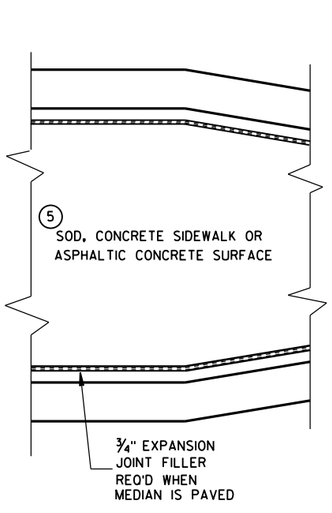
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

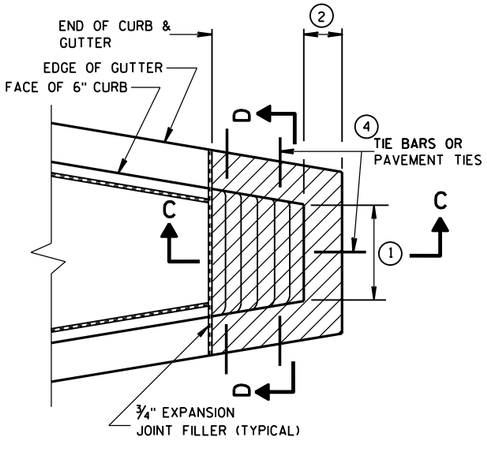


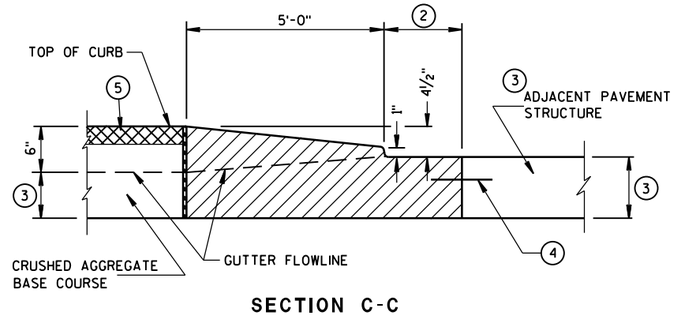


SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

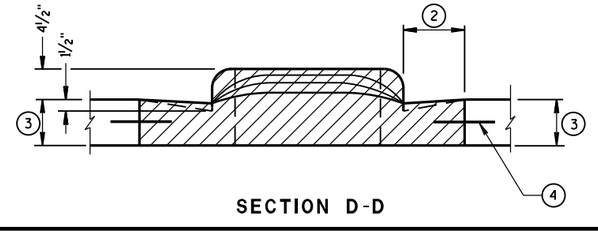






SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

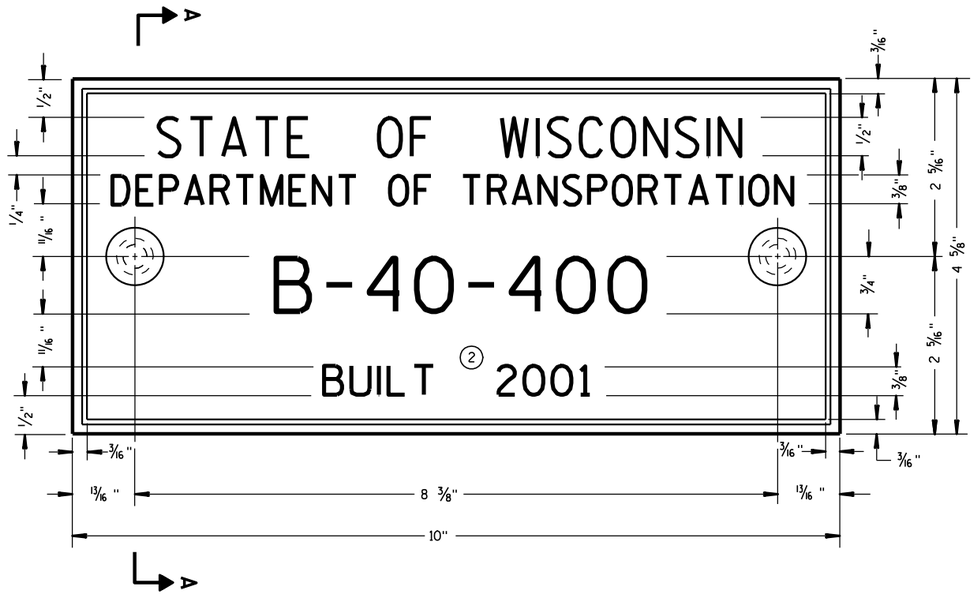
FHWA

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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

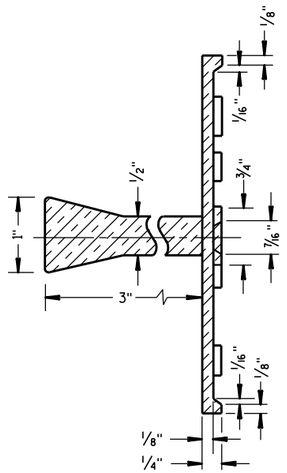
GENERAL NOTES

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.

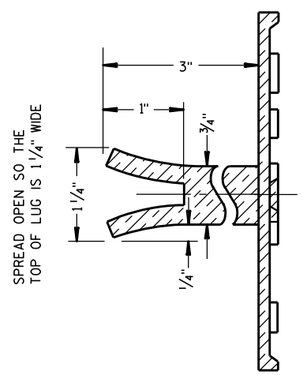
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

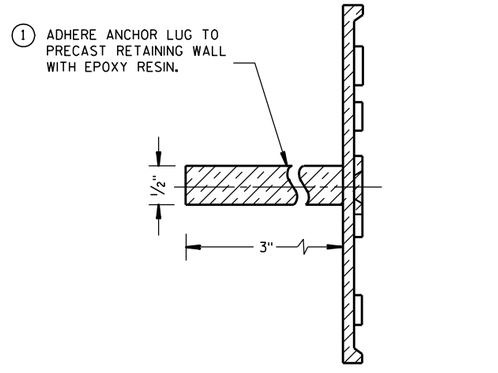
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

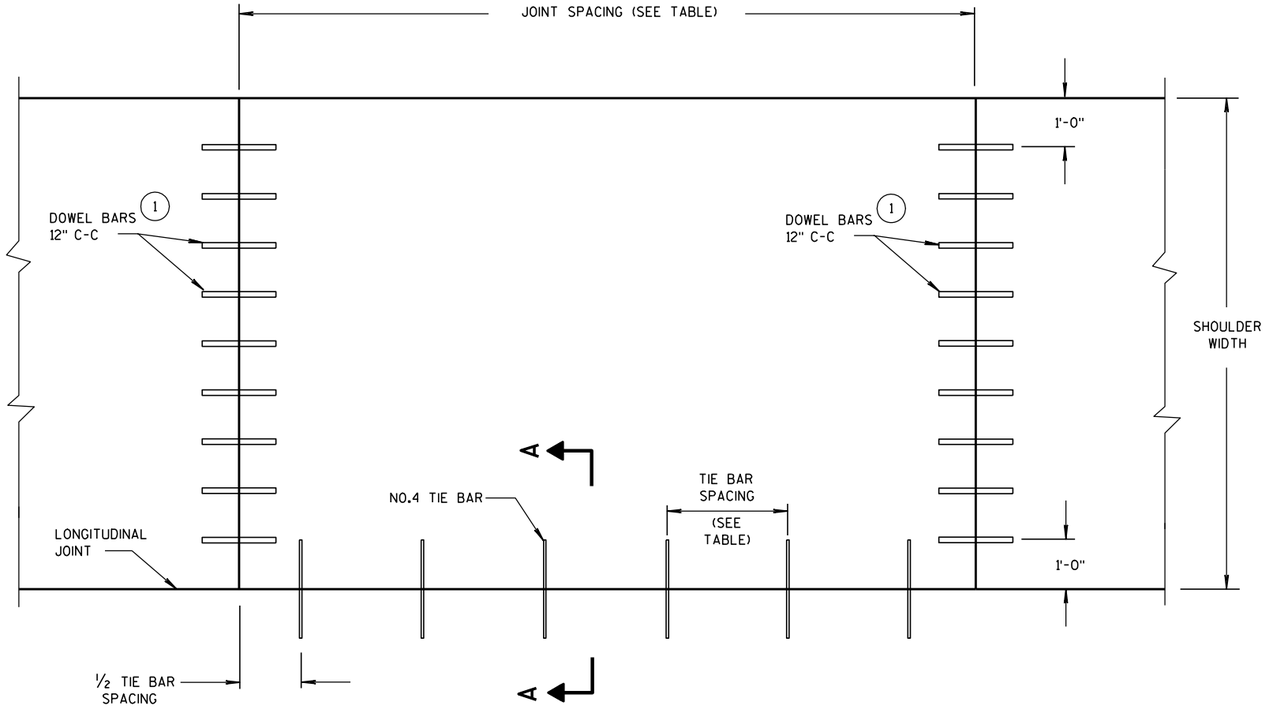
3/26/10 DATE

/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP ENGINEER

FHWA

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S.D.D. 12 A 3-10



PLAN VIEW

CONCRETE PAVEMENT SHOULDER

PAVEMENT TYPE OF TRAFFIC LANES	TIE BAR SPACING	SHOULDER JOINT SPACING
NON-REINFORCED	30"	MATCH JOINT SPACING OF ADJACENT TRAFFIC LANE
CONTINUOUSLY REINFORCED	30"	15' FOR 6' TO 10' WIDE SHOULDERS
CONTINUOUSLY REINFORCED	36"	12' FOR 3' WIDE SHOULDERS

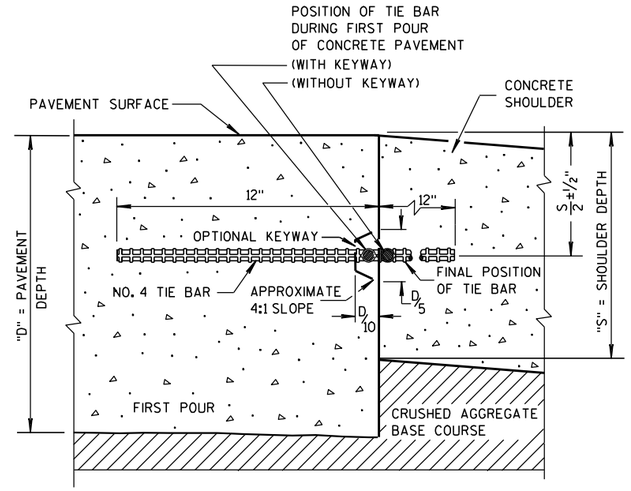
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT

(1) PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/15/2011 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & D — INEER
FHWA

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S.D.D. 13 A 3-5

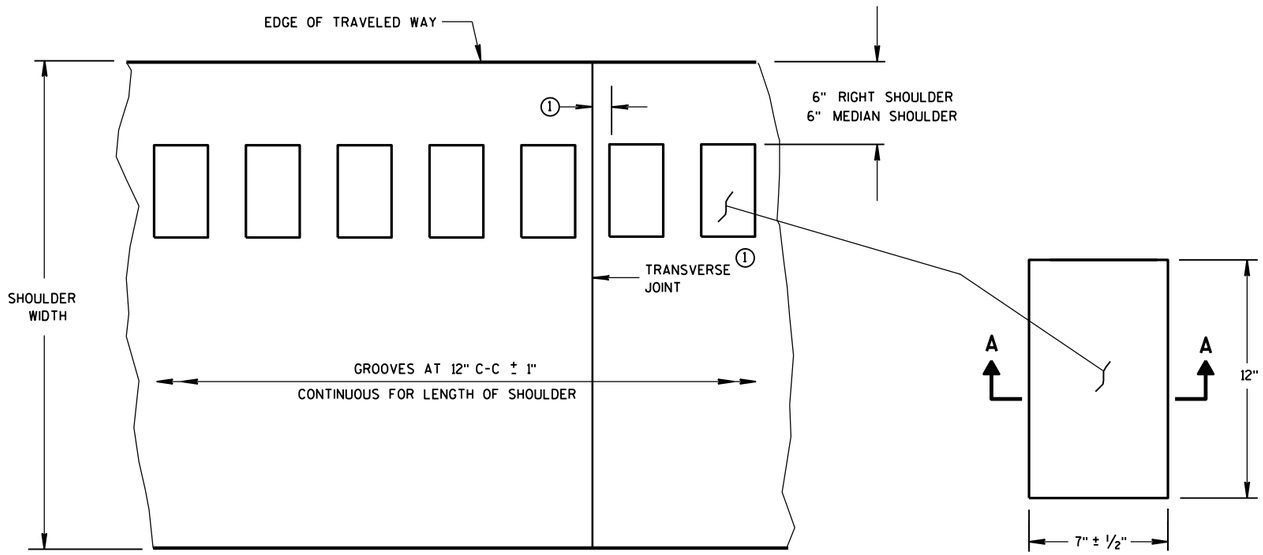
GENERAL NOTES

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.

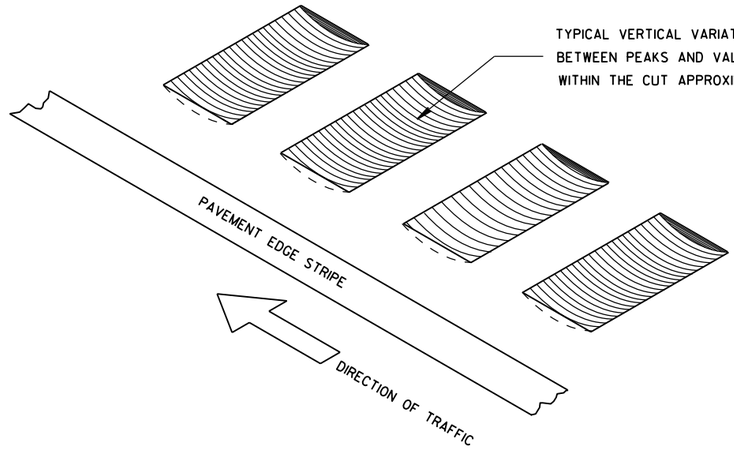
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



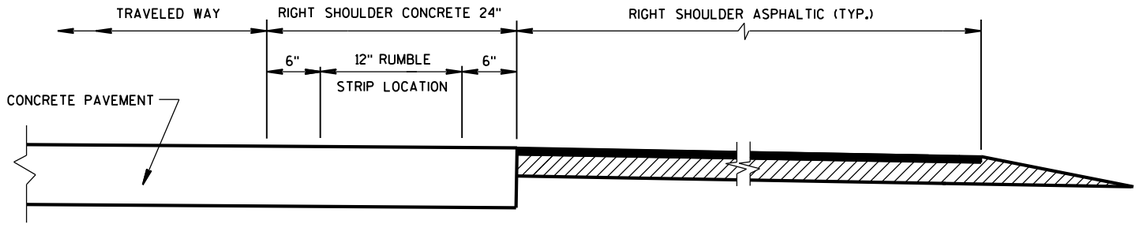
PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

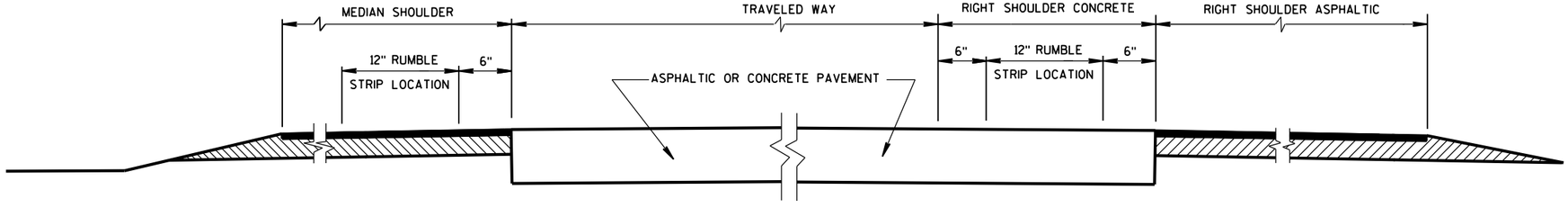
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



ISOMETRIC

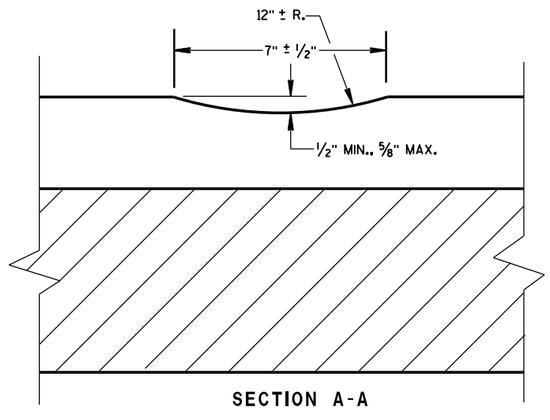


SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



SECTION VIEW

TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS
IN RURAL DIVIDED HIGHWAYS
(ONE ROADWAY IS SHOWN)



SECTION A-A

SHOULDER RUMBLE STRIP, MILLING

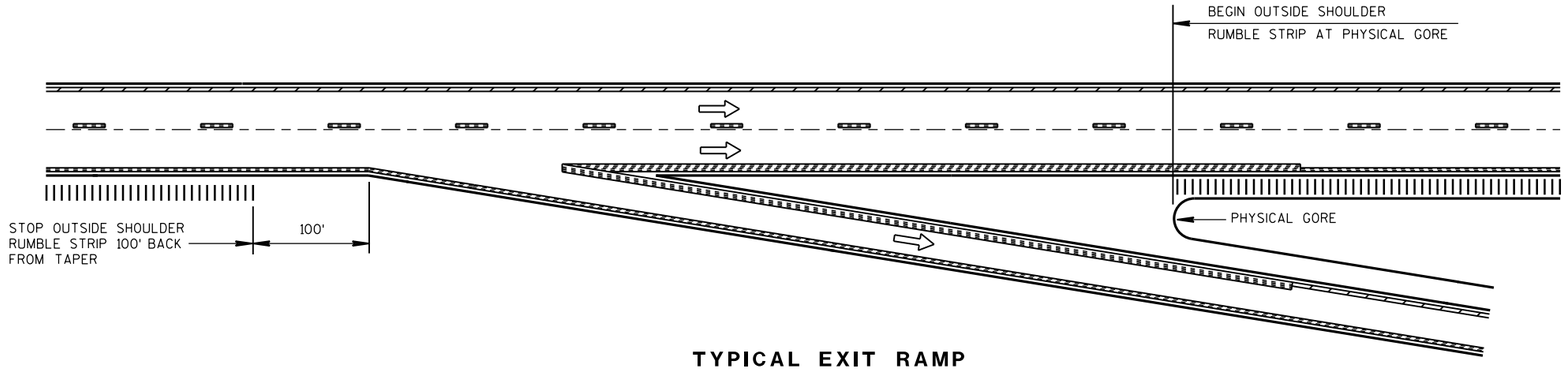
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 A 5-5a

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S.D.D. 13 A 5-5a



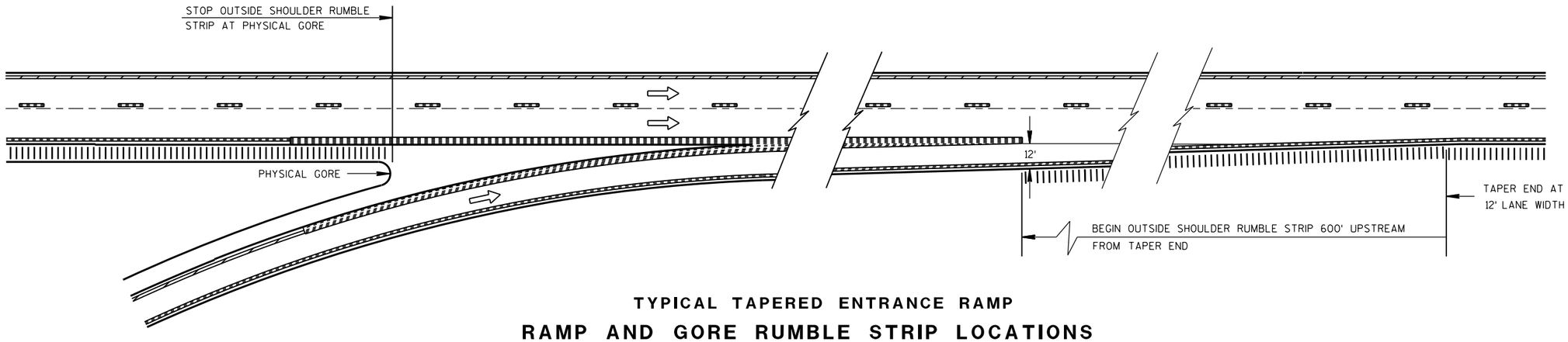
TYPICAL EXIT RAMP

NOTES:

NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

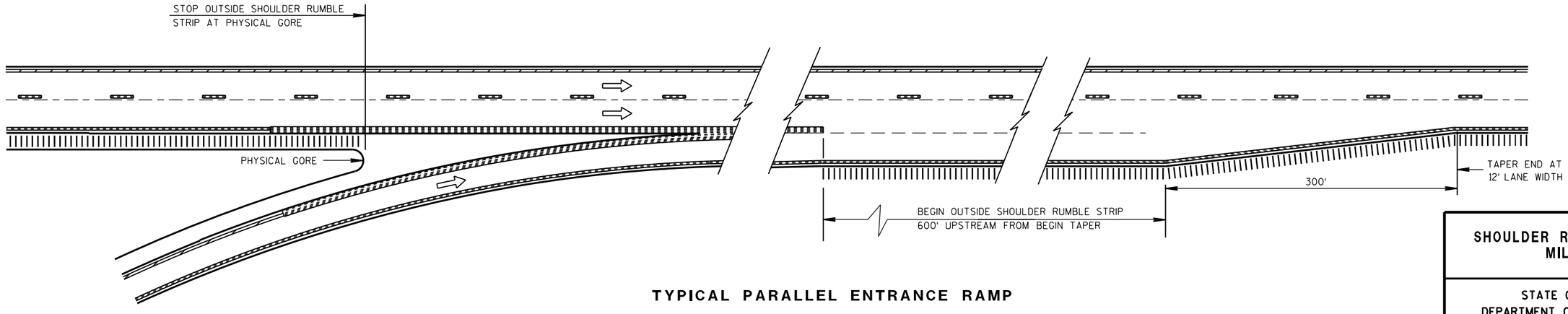
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

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

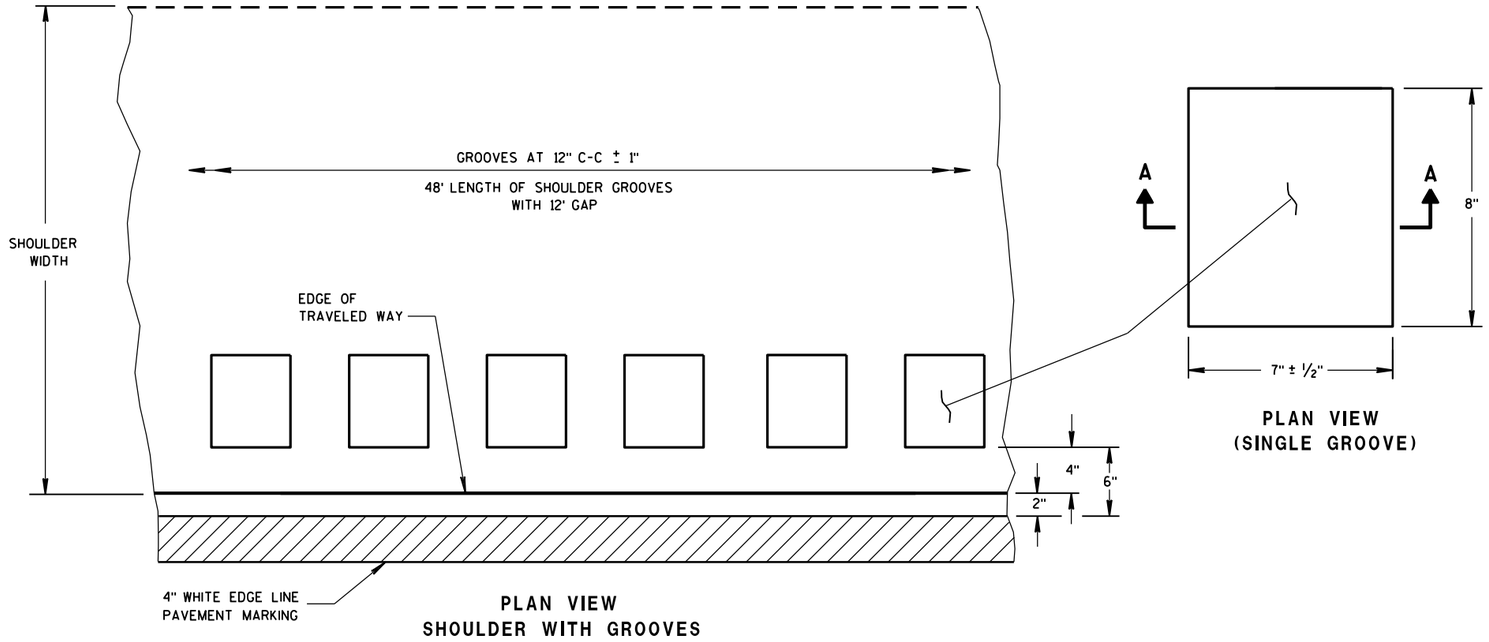
FHWA

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S.D.D. 13 A 5-5b

6

S.D.D. 13 A 5-5b



PLAN VIEW
SHOULDER WITH GROOVES

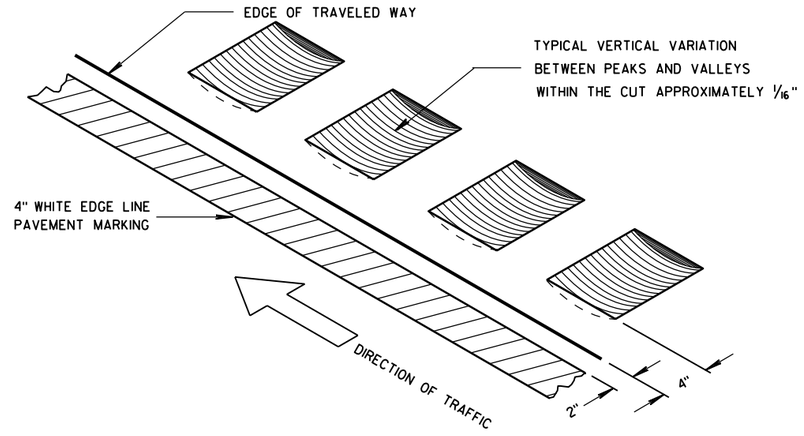
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

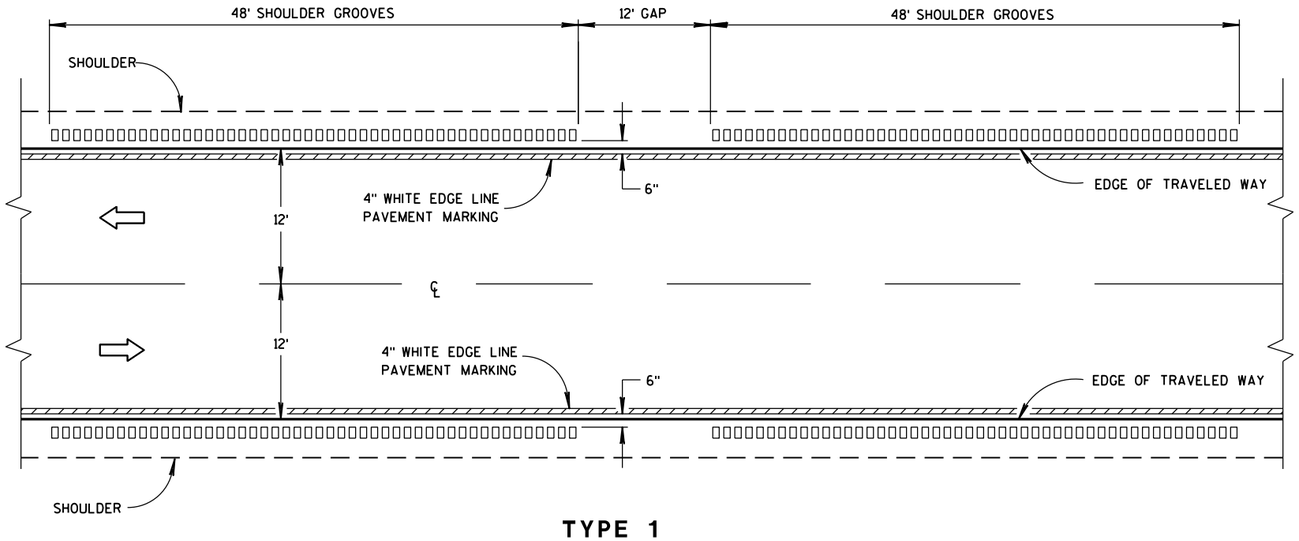
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

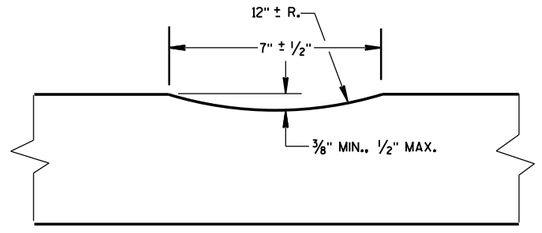


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



TYPE 1
2-LANE SHOULDER RUMBLE STRIP



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

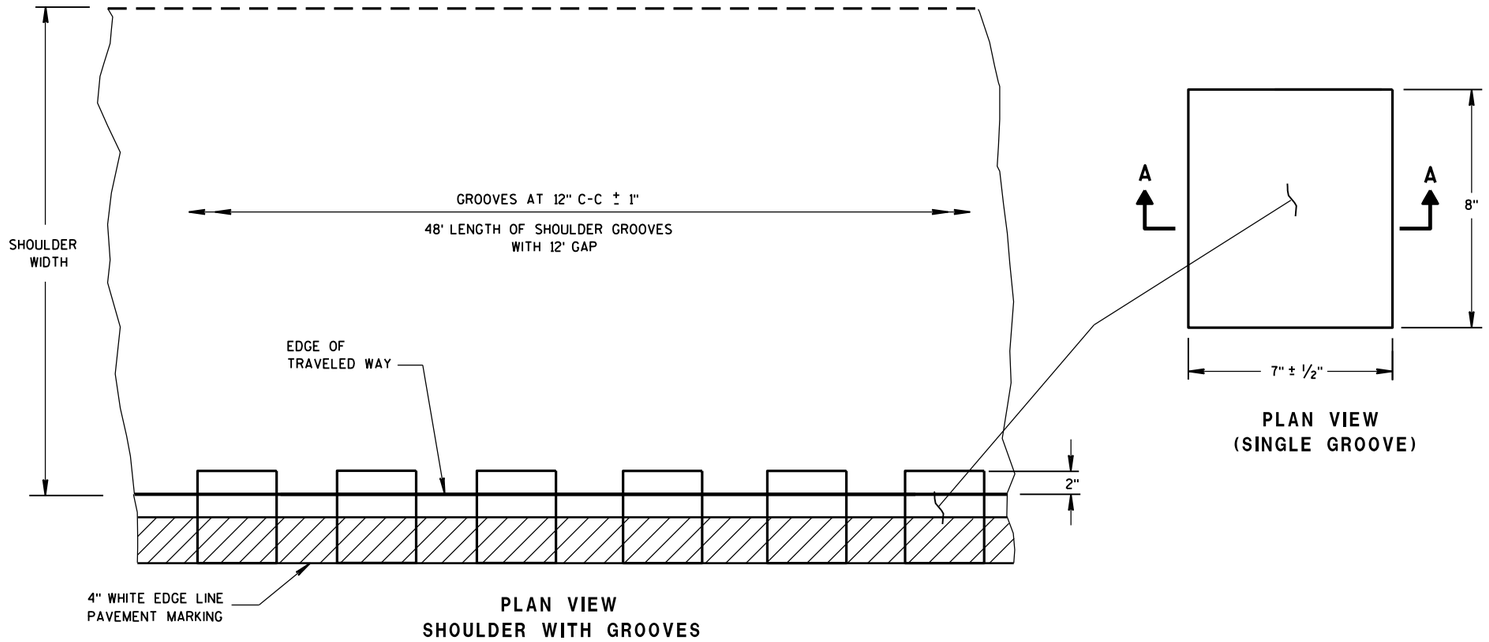
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 13 A 10-1a

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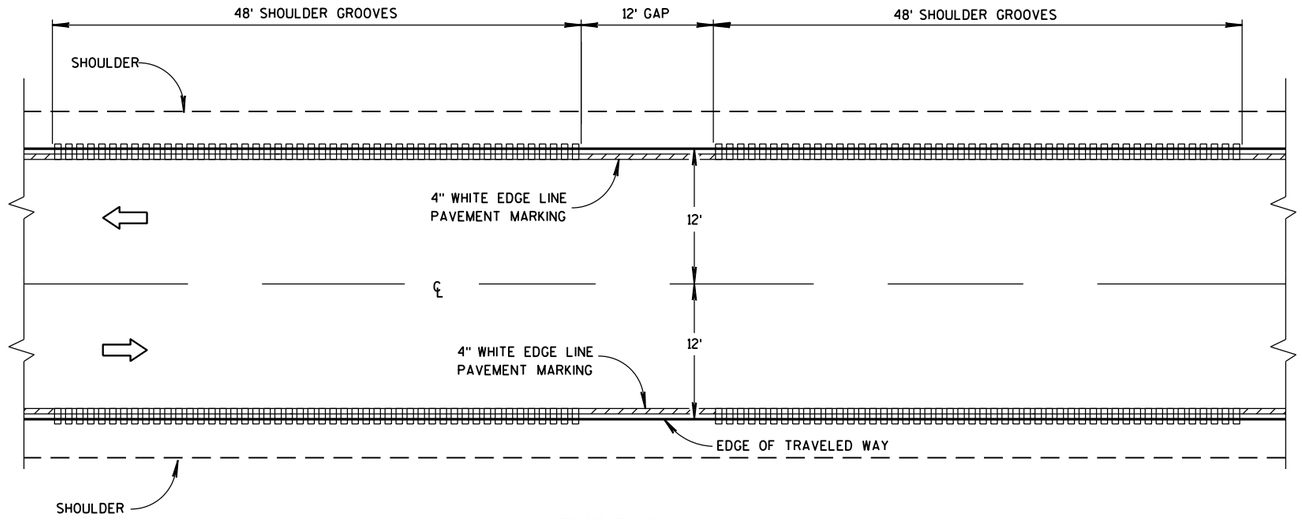
S.D.D. 13 A 10-1a



PLAN VIEW
SHOULDER WITH GROOVES

PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP



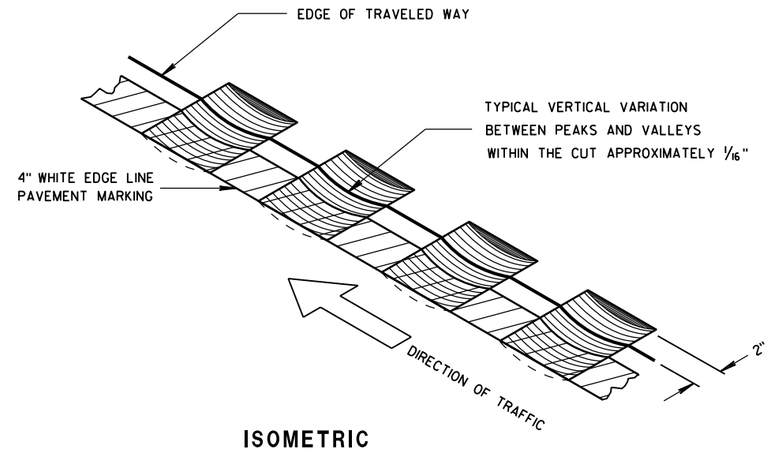
TYPE 2
2-LANE SHOULDER RUMBLE STRIP

GENERAL NOTES

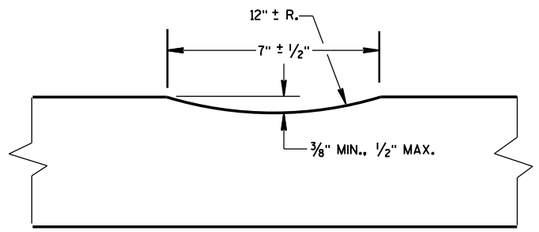
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

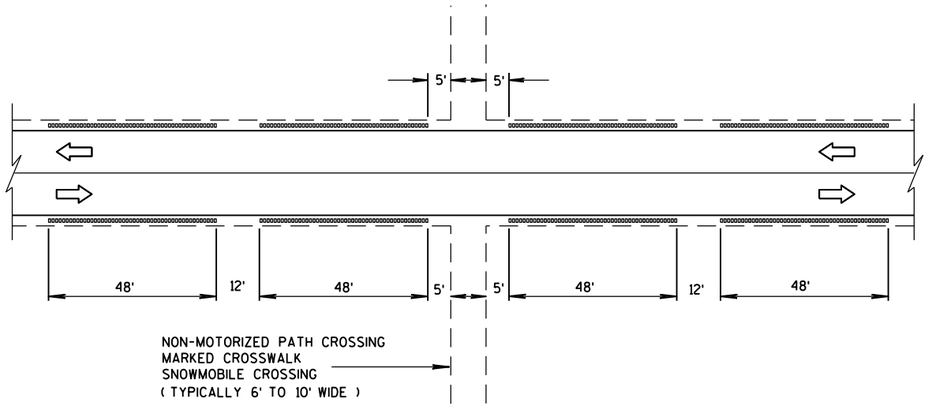
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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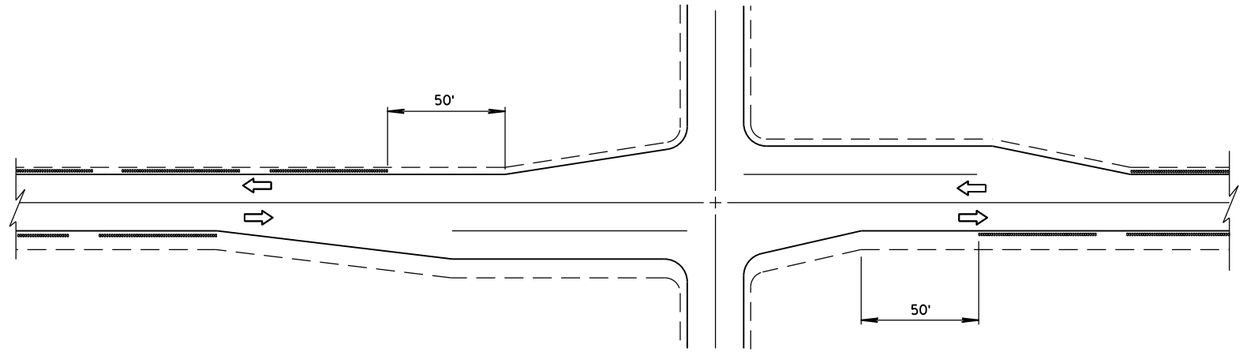
S.D.D. 13 A 10-1b

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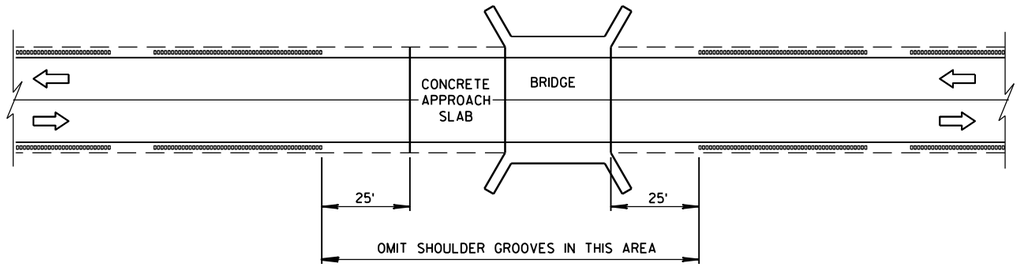
S.D.D. 13 A 10-1b



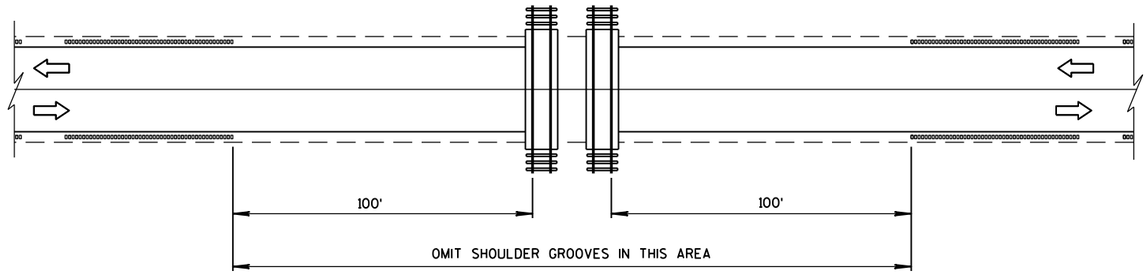
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



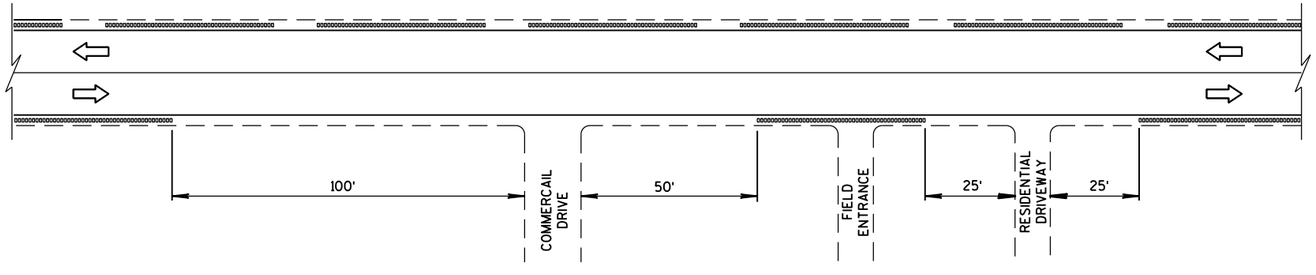
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT RAILROADS



SHOULDER GROOVES AT DRIVEWAYS (1)

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

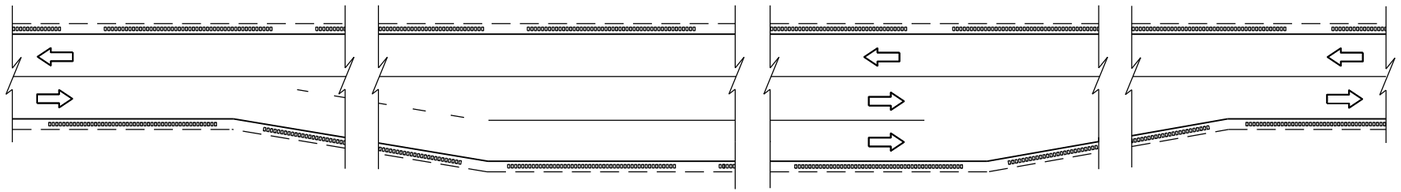
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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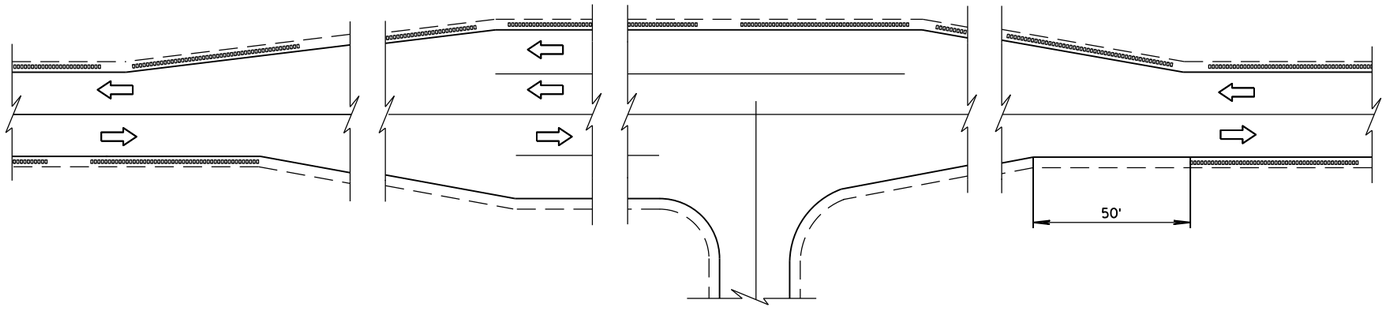
S.D.D. 13 A 10-1c

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S.D.D. 13 A 10-1c



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

S.D.D. 13 A 10-1d

S.D.D. 13 A 10-1d

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

FHWA

GENERAL NOTES

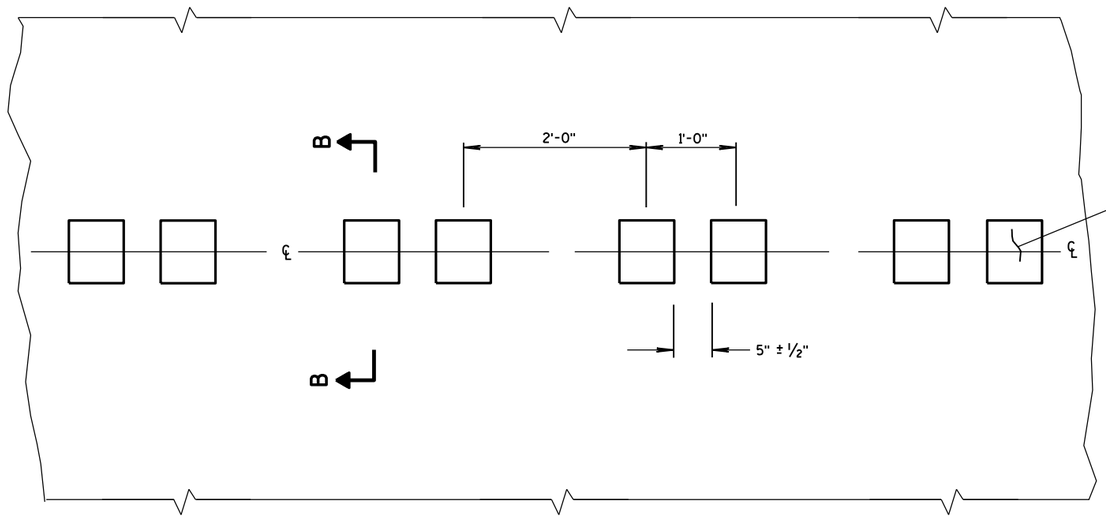
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

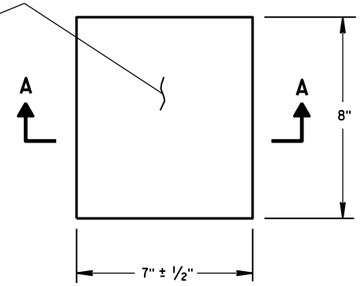
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

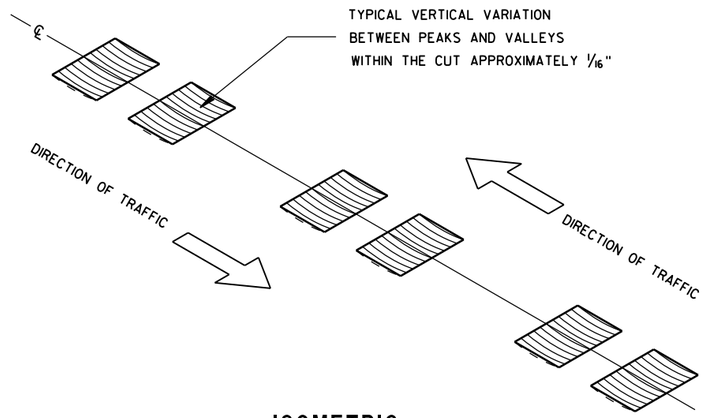
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



PLAN VIEW
CENTER LINE WITH GROOVES

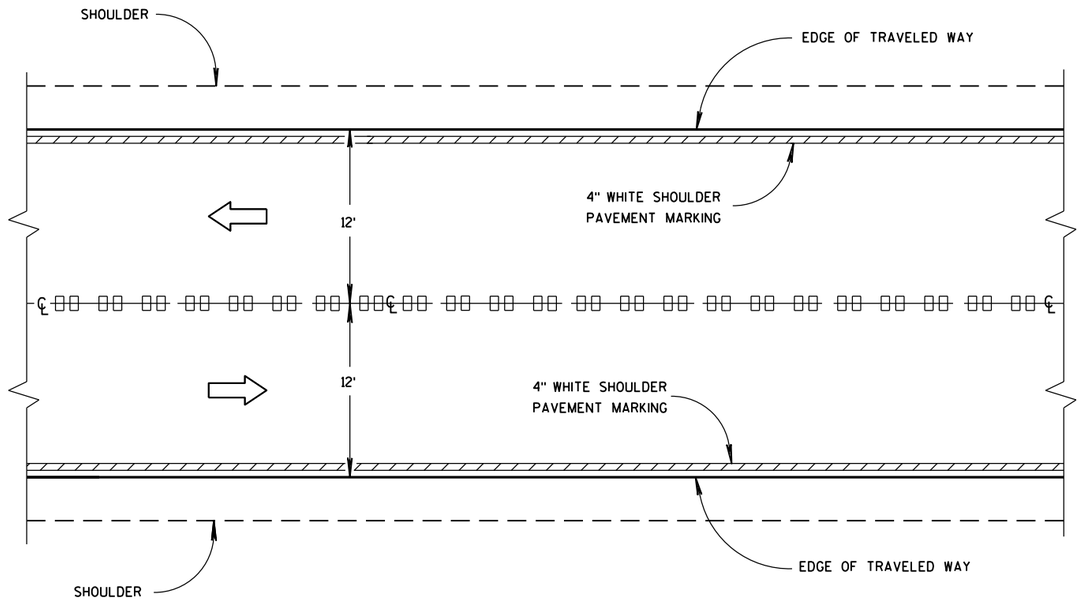


PLAN VIEW
(SINGLE GROOVE)

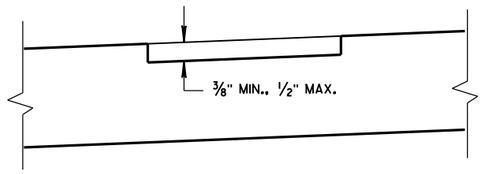


ISOMETRIC

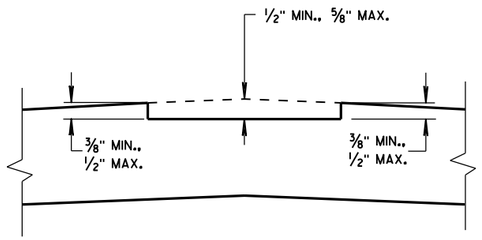
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



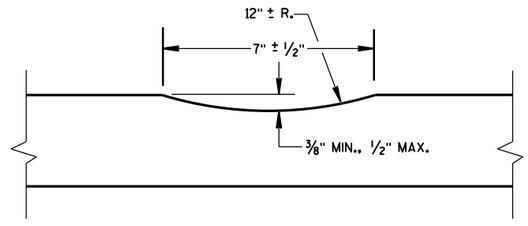
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

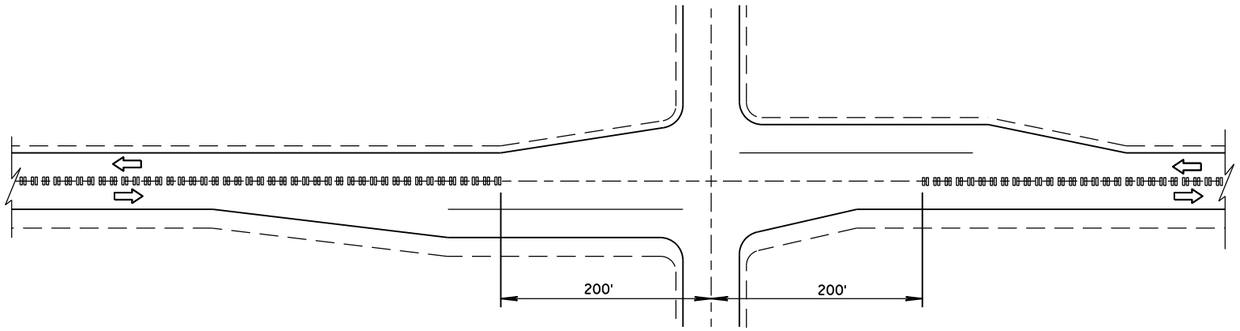
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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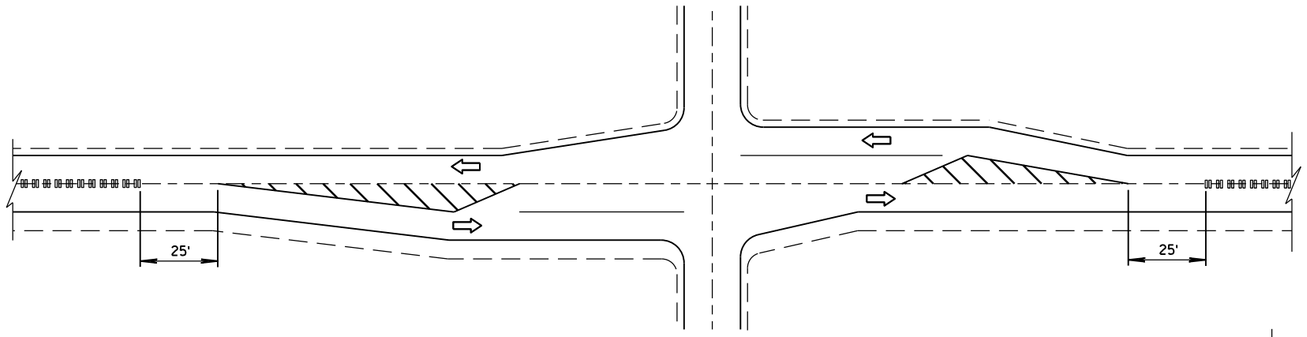
S.D.D. 13 A 11-2a

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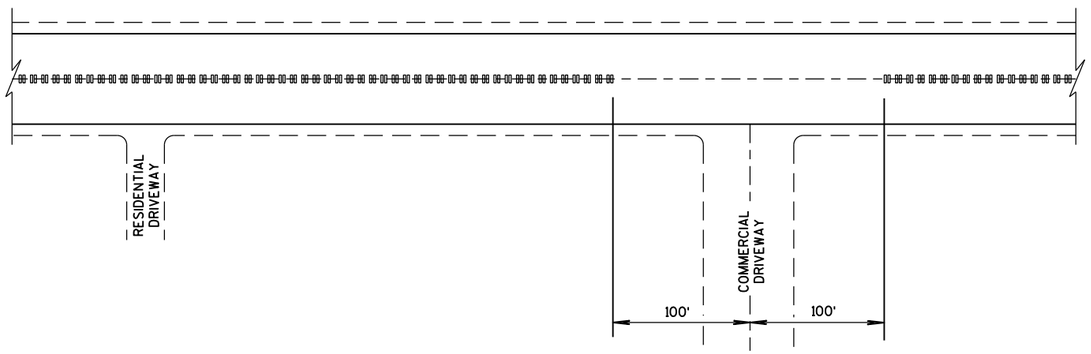
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

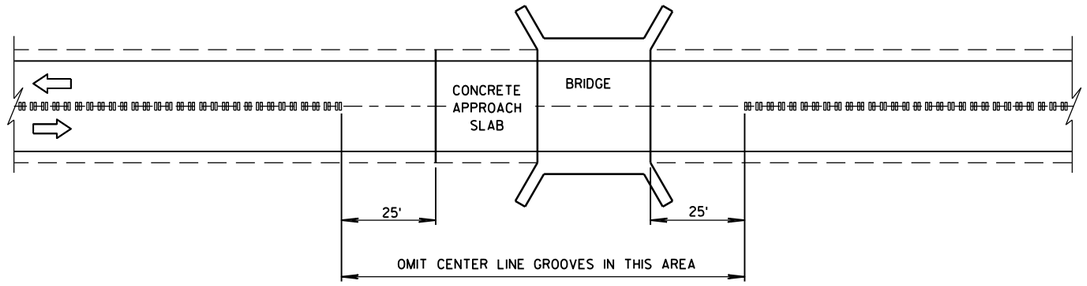


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

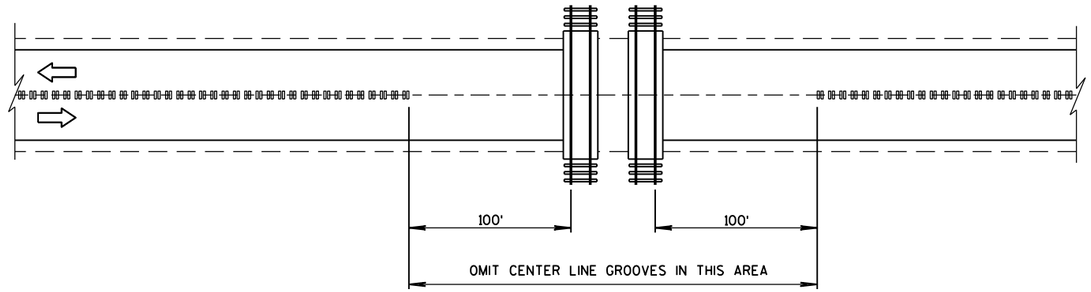


CENTER LINE GROOVES AT DRIVEWAYS (1)

(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

S.D.D. 13 A 11-2b

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S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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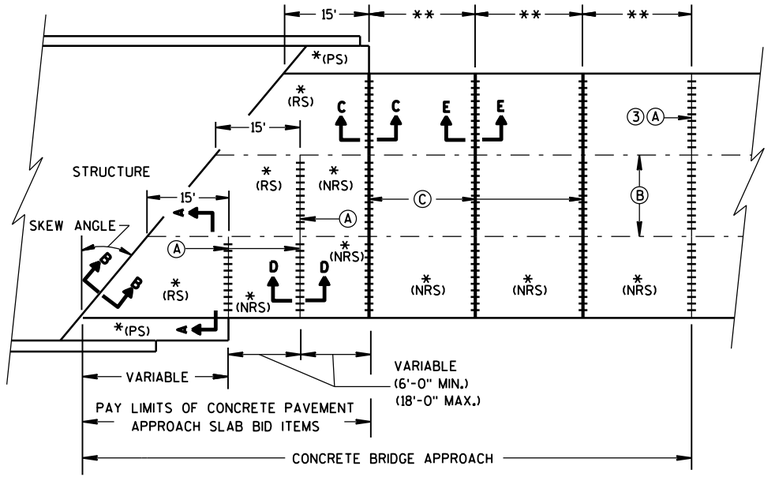
5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

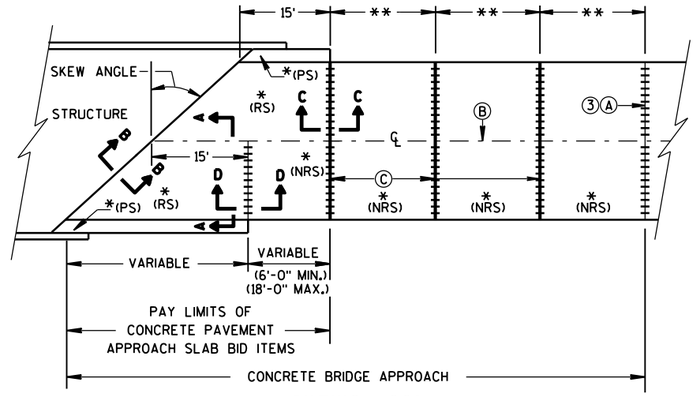
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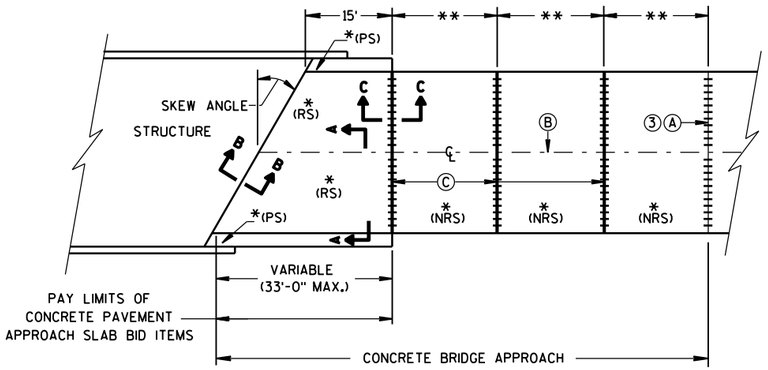
FHWA



SKEWED APPROACH
(PAVEMENT MORE THAN 2 LANES)



SKEWS >30°
(PAVEMENT WIDTH ≤30')



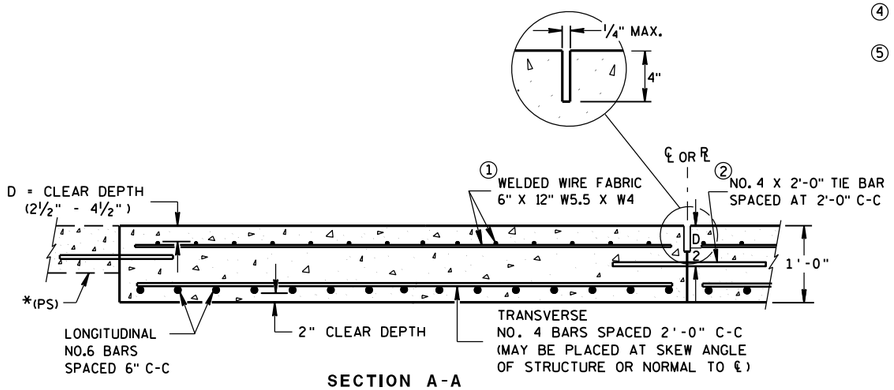
SKEWS ≤30°
(PAVEMENT WIDTH ≤30')

APPROACH SLAB AND ADJACENT PAVEMENT

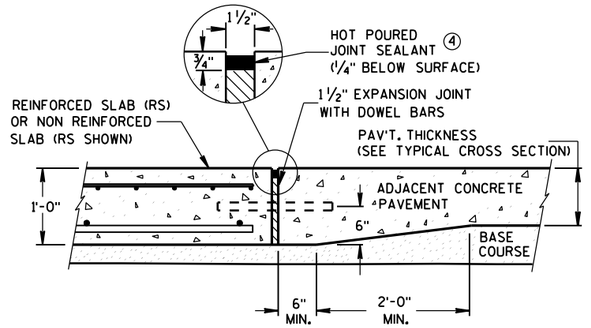
*(RS) = REINFORCED CONCRETE SLAB
*(PS) = PAVED CONCRETE SHOULDER: CONCRETE PAVEMENT, OR CONCRETE SURFACE DRAIN (SEE DETAILS ELSEWHERE IN THE PLAN)
*(NRS) = NON-REINFORCED CONCRETE SLAB

**STANDARD TRANSVERSE JOINT SPACING (SEE SDD 13C4, SDD 13C11, & SDD 13C13)
***STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11, & SDD 13C13)

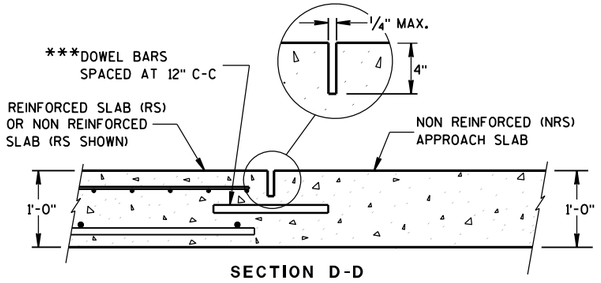
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄
(B) STANDARD LONGITUDINAL JOINT AND TIE BARS.
(C) 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄



SECTION A-A
REINFORCEMENT POSITIONING DETAIL



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



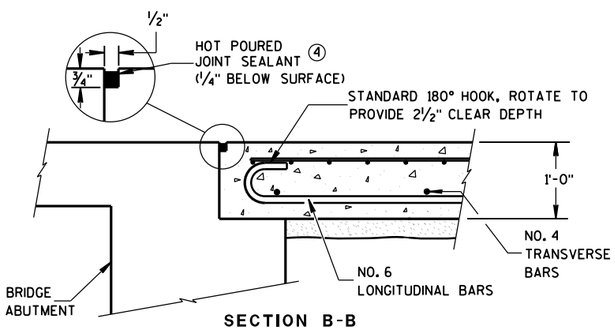
SECTION D-D
CONTRACTION JOINT

GENERAL NOTES

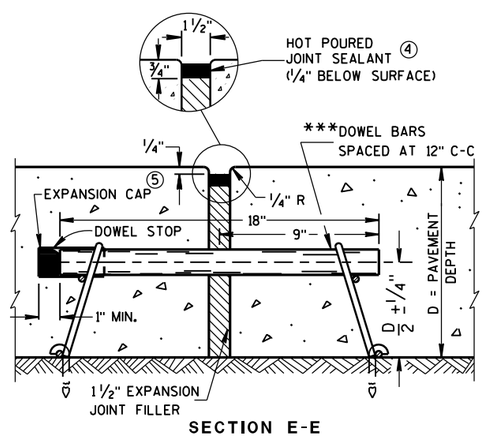
THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

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. DO NOT DOWEL A CONTRACTION JOINT THAT ABUTS AN HMA PAVEMENT.
4. USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.
5. PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.



SECTION B-B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION E-E
EXPANSION JOINT

CONCRETE BRIDGE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2014 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DE
FHWA

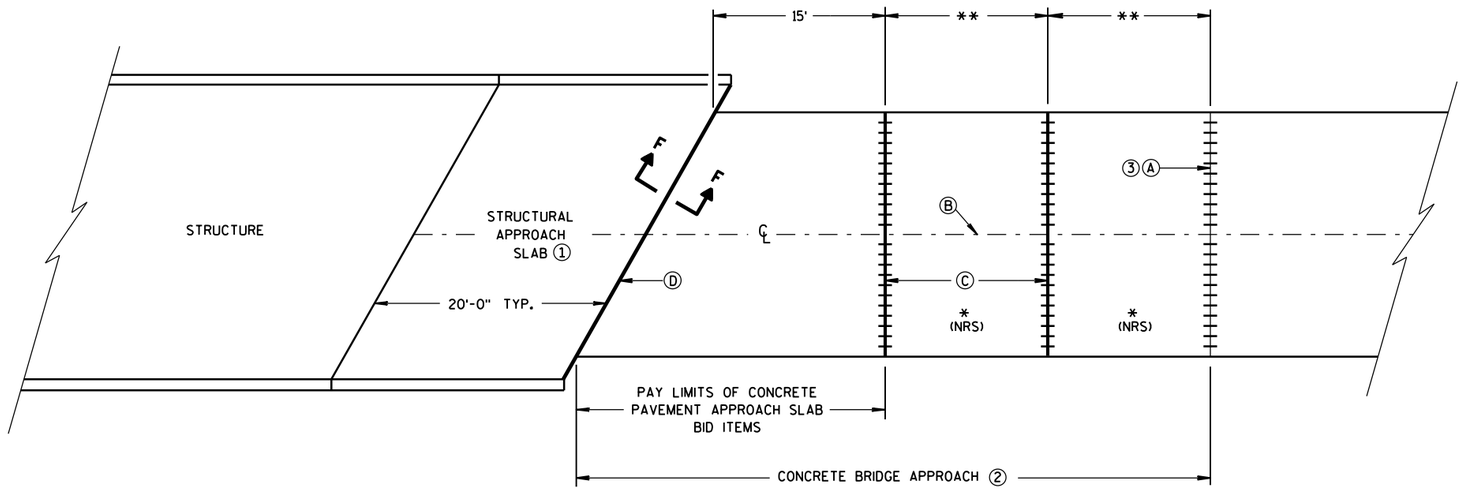
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S.D.D. 13 B 2-7a

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S.D.D. 13 B 2-7a



BRIDGE APPROACHES

GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE BRIDGE APPROACH.

① CONFORM TO APPLICABLE BRIDGE MANUAL STANDARD DRAWINGS FOR *STRUCTURAL APPROACH SLABS* (SEE CHAPTER 12 - ABUTMENTS).

② CONFORM TO SHEET (a) OF THIS SET FOR *CONCRETE BRIDGE APPROACH* DETAILS, WITH ONE EXCEPTION — WHEN CONSTRUCTING A *CONCRETE BRIDGE APPROACH* NEXT TO A *STRUCTURAL APPROACH SLAB*, AS SHOWN IN THE DETAIL DRAWING, THE *CONCRETE BRIDGE APPROACH* WILL ONLY HAVE TWO EXPANSION JOINTS; THE THIRD EXPANSION JOINT IS AT THE END OF THE *STRUCTURAL APPROACH SLAB*.

③ DO NOT DOWEL A CONTRACTION JOINT THAT ABUTS AN HMA PAVEMENT.

*(NRS) = NON-REINFORCED CONCRETE SLAB

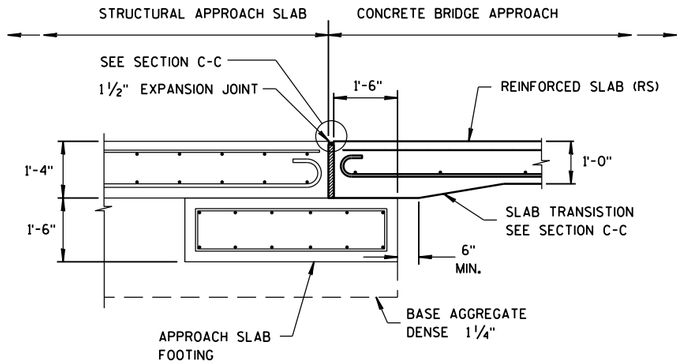
**STANDARD TRANSVERSE JOINT SPACING (SEE SDD 13C4, SDD 13C11, & SDD 13C13)

Ⓐ STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄

Ⓑ STANDARD LONGITUDINAL JOINT AND TIE BARS.

Ⓒ 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄

Ⓓ 1½" EXPANSION JOINT (NO DOWELS)



SECTION F-F

FOOTING DETAIL

STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

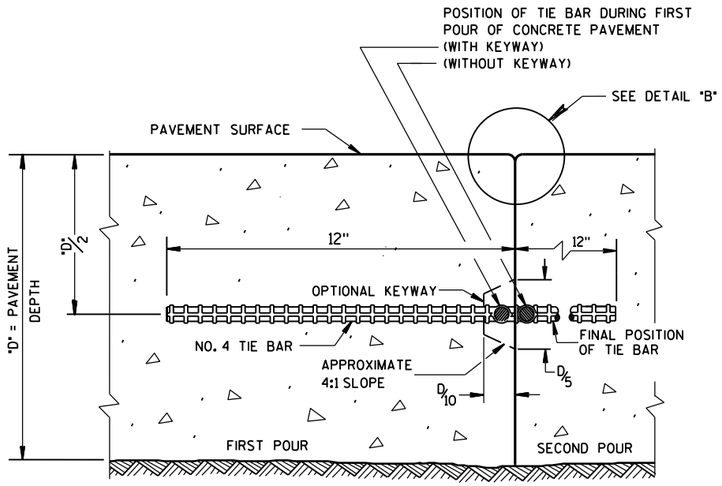
STRUCTURAL APPROACH SLAB AND CONCRETE BRIDGE APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

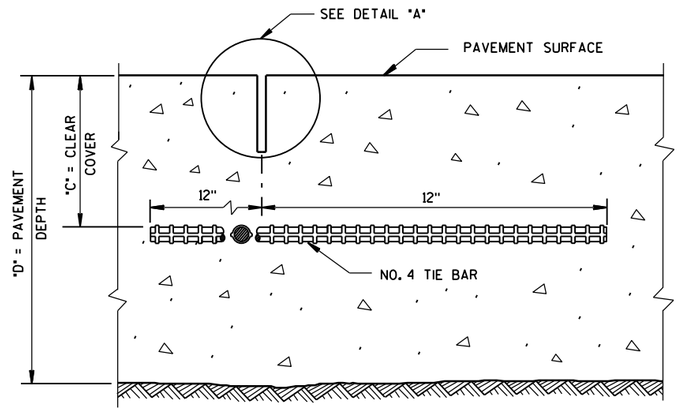
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June, 2014 — DATE
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S.D.D. 13 B 2-7b



CONSTRUCTION JOINT



SAWED JOINT

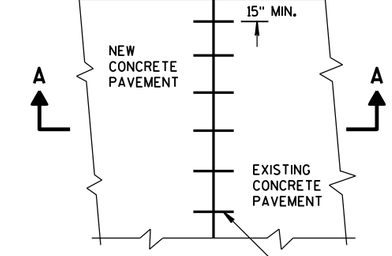
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

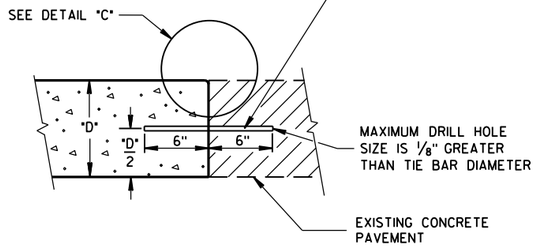
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

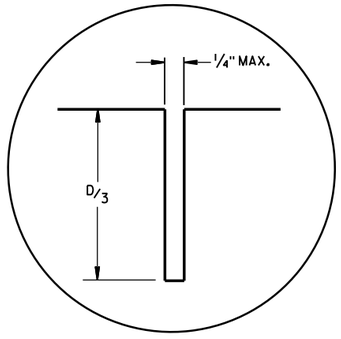


PLAN VIEW

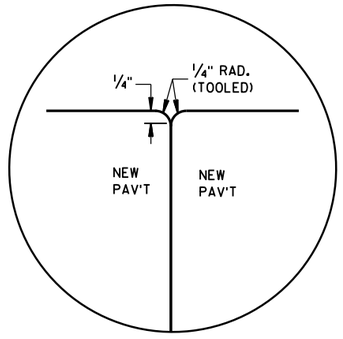


SECTION A-A

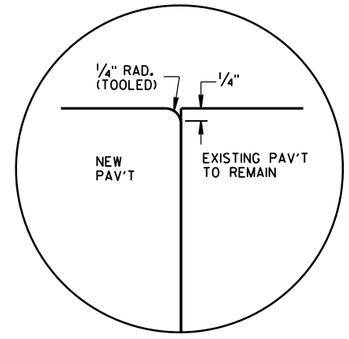
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



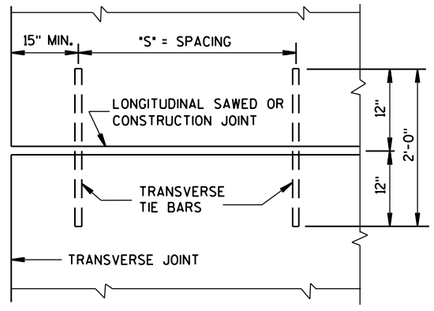
DETAIL "B"



DETAIL "C"

TIE BAR TABLE

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

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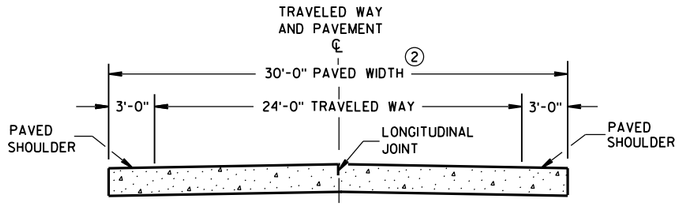
9/2014 — DATE

/S/ Deb Bischoff — PAVEMENT POLICY & DE ... NEER

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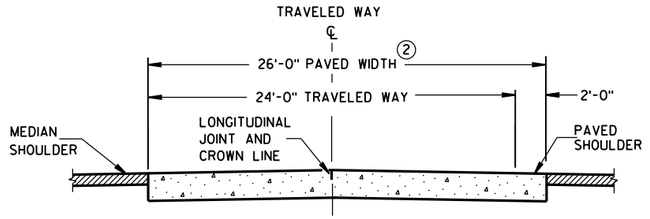
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S.D.D. 13 C 1-17

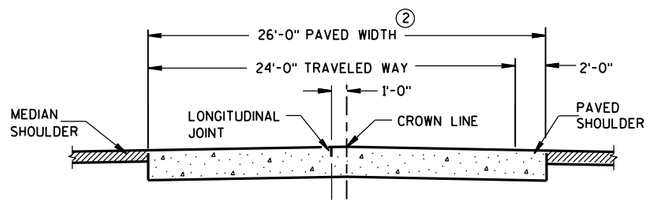


SECTION A-A ①

TWO-LANE TWO-WAY HIGHWAY



SECTION B-B



ALTERNATIVE SECTION B-B ①

DIVIDED HIGHWAY

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE 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, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

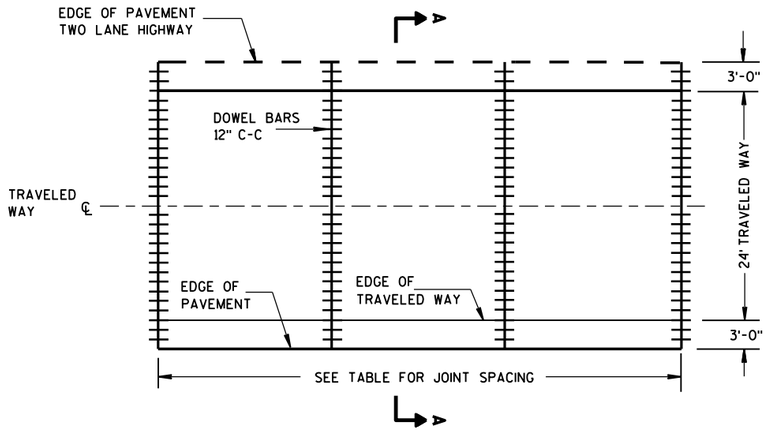
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.

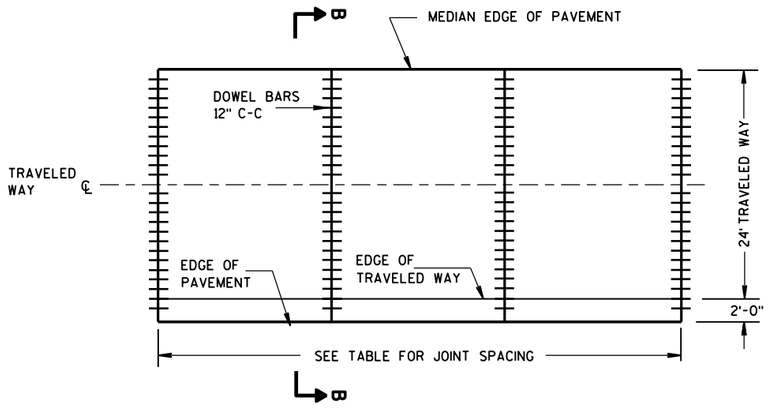
② MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



CONTRACTION JOINT LAYOUT
FOR TWO-LANE TWO-WAY HIGHWAY



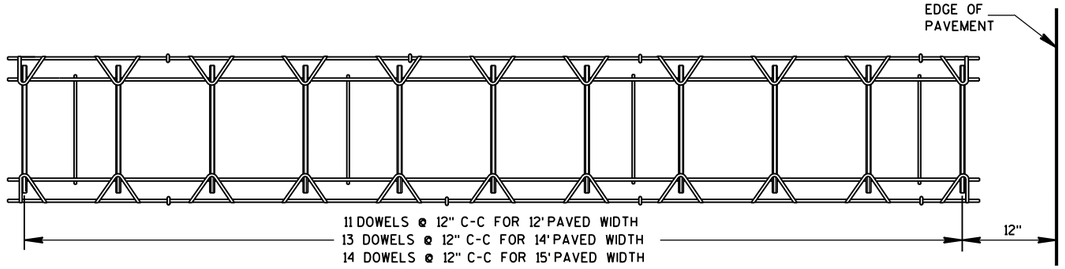
CONTRACTION JOINT LAYOUT
FOR DIVIDED HIGHWAY

RURAL DOWELED
CONCRETE PAVEMENT

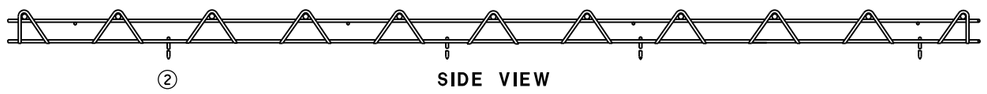
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 C 11-11a



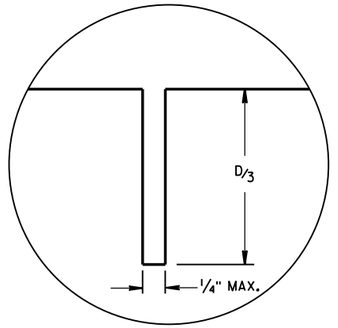
PLAN VIEW



SIDE VIEW

(NORMAL TO CENTERLINE)

CONTRACTION JOINT DOWEL ASSEMBLY ①



JOINT DETAIL

GENERAL NOTES

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② 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.

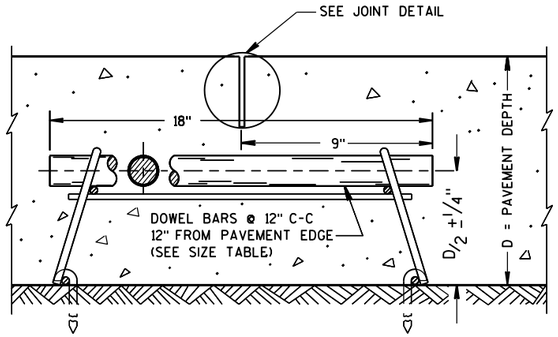
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

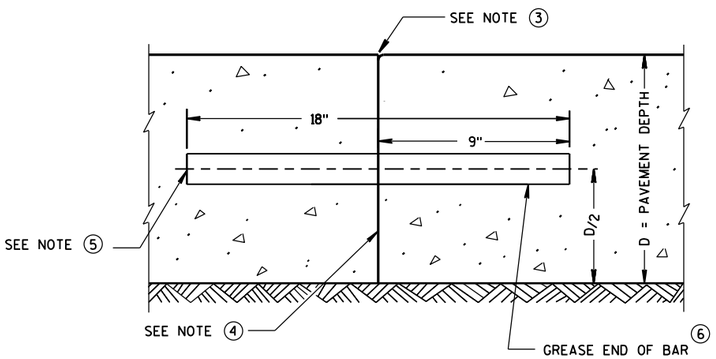
⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

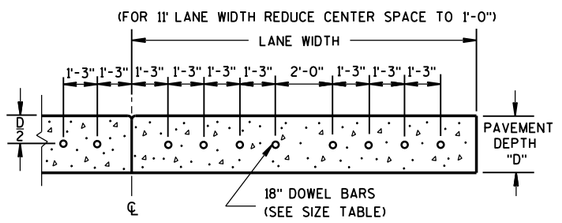
⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



DOWELED CONTRACTION JOINT



TRANSVERSE CONSTRUCTION JOINT



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

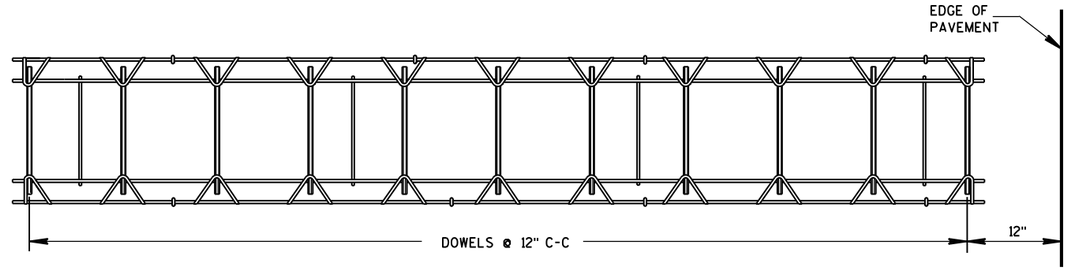
APPROVED
5/3/2013 DATE
/S/ Deb Bischoff PAVEMENT POLICY & DE ENGINEER
FHWA

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S.D.D. 13 C 11-11b

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S.D.D. 13 C 11-11b

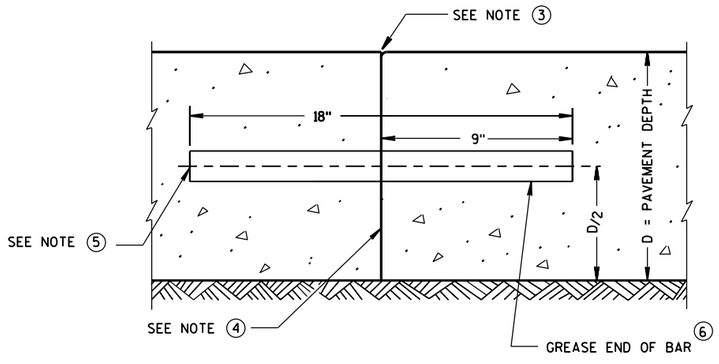


PLAN VIEW

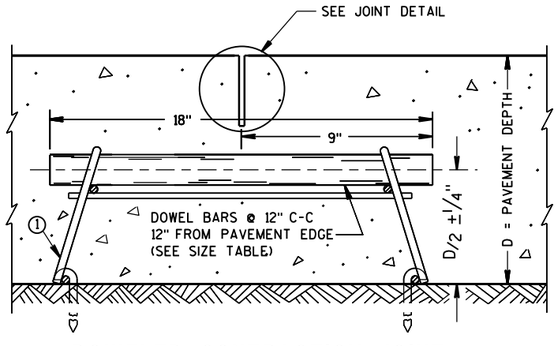


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



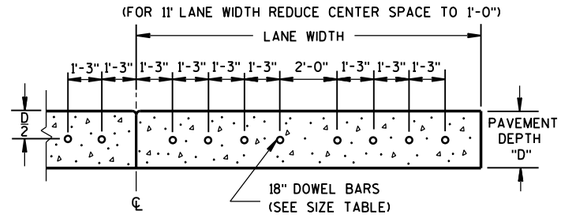
TRANSVERSE CONSTRUCTION JOINT



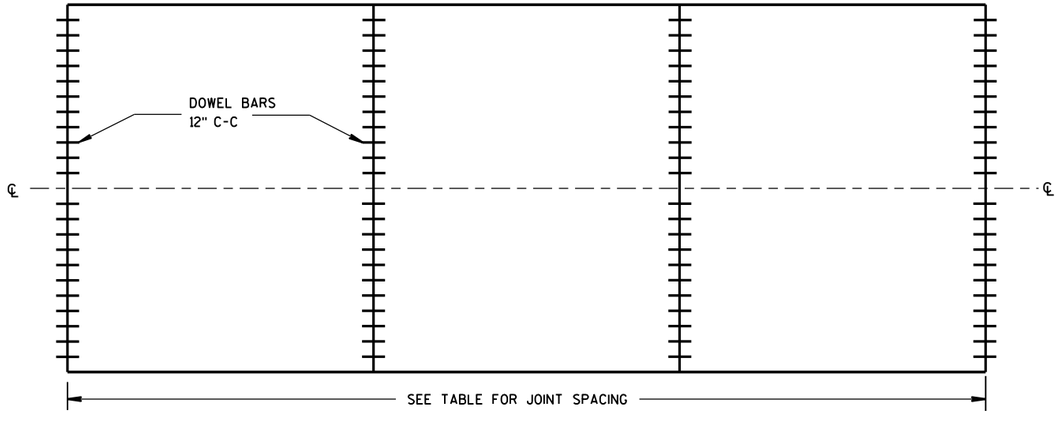
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE 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, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

② 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.

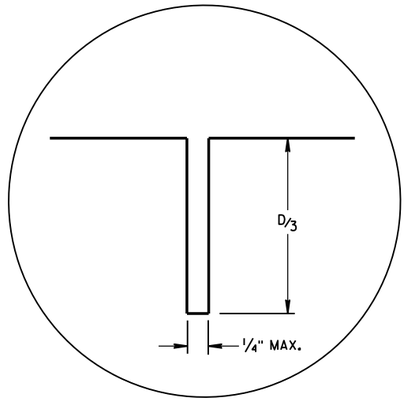
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER
FHWA

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S.D.D. 13 C 13-8

GENERAL NOTES

PCCP = PORTLAND CEMENT CONCRETE PAVEMENT.

SHLDR = SHOULDER.

CONTINUE SAW CUT CONTRACTION JOINT ACROSS TURN LANE, EXIT TAPER AND PASSING LANE.

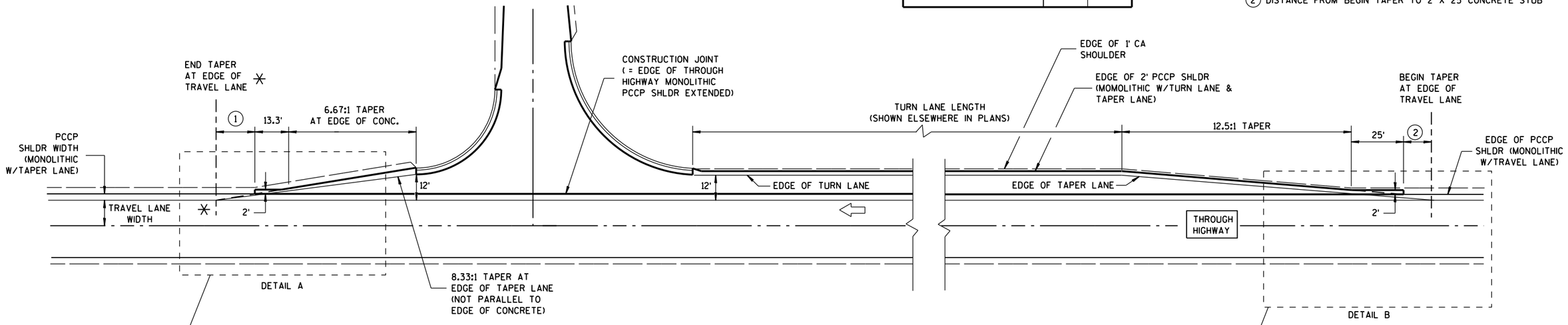
PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

THROUGH HIGHWAY LANE WIDTH AND PCCP SHOULDER WIDTH ARE SHOWN ELSEWHERE IN PLANS

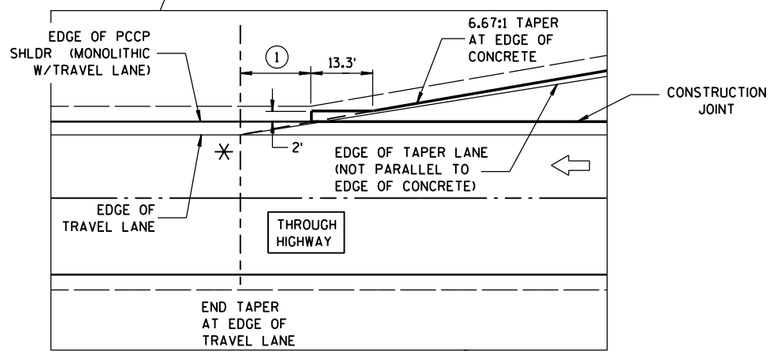
(1) DISTANCE FROM END TAPER TO 2' X 13.3' CONCRETE STUB

(2) DISTANCE FROM BEGIN TAPER TO 2' X 25' CONCRETE STUB

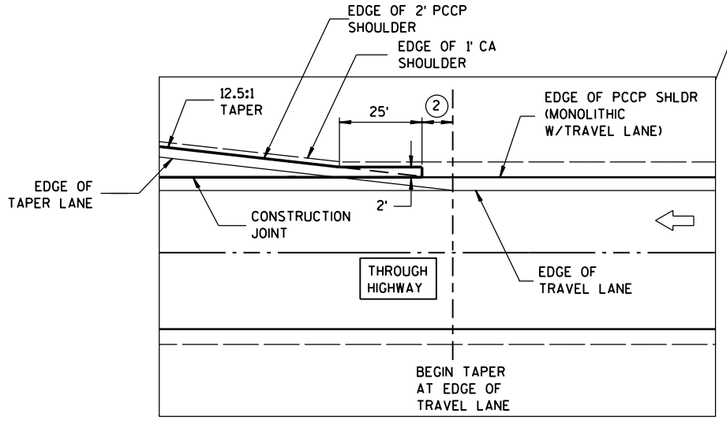
THROUGH HIGHWAY MONOLITHIC PCCP SHOULDER WIDTH (FEET)	DISTANCE (FEET)	
	(1)	(2)
2	13.3	0.0
3	20.0	12.5
TAPER RATE : 1	6.67	12.5



NOTE: EDGE OF CONCRETE TAPER (EXTENDED) & EDGE OF TAPER LANE CONVERGE



DETAIL A



DETAIL B

RIGHT TURN LANE AND EXIT TAPER

DETAIL FOR RIGHT TURN LANE/ TEE INTERSECTION BYPASS LANE ON A CONCRETE ROADWAY

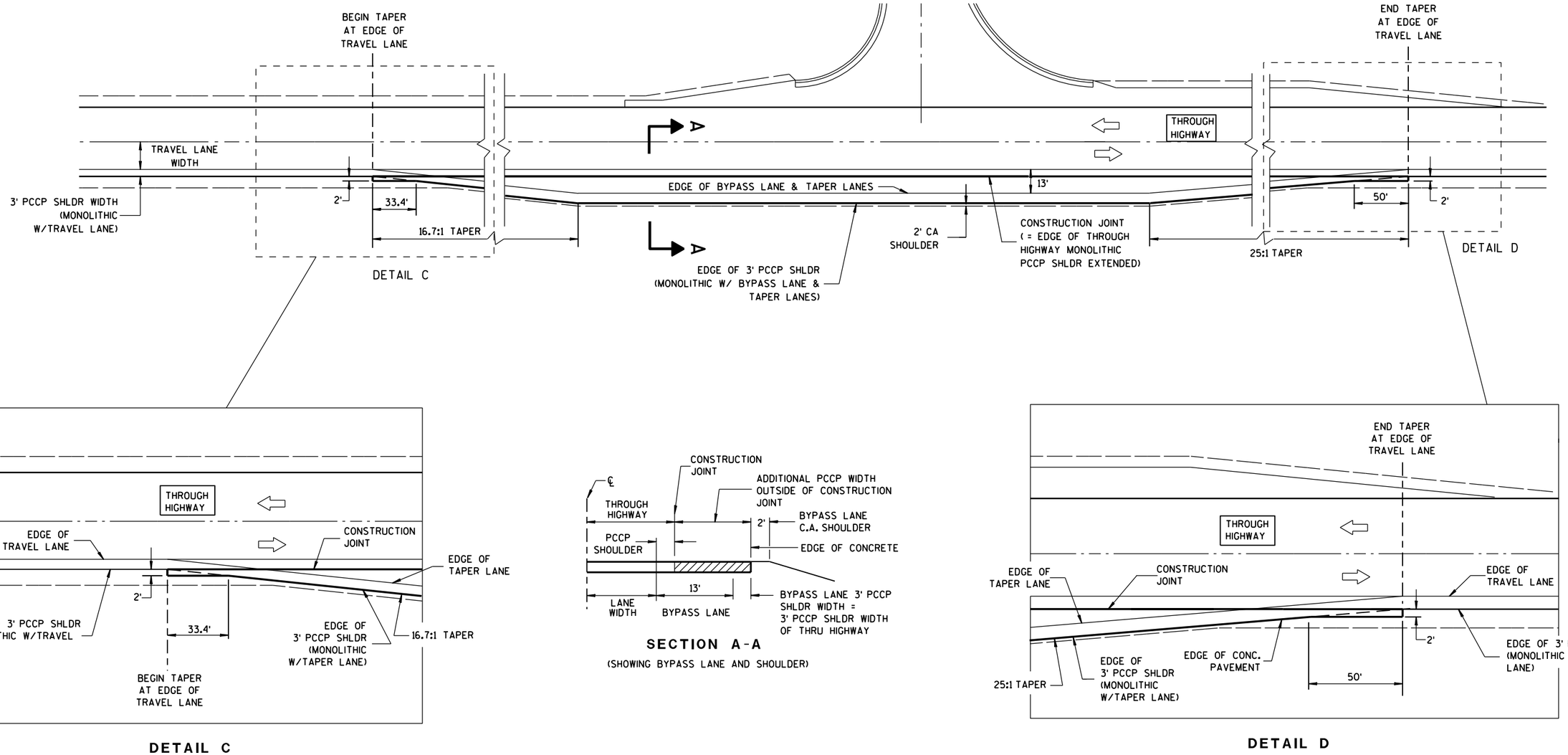
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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S.D.D. 13 C 16-2a

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S.D.D. 13 C 16-2a

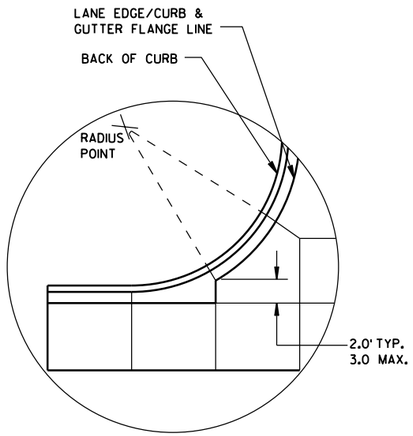


TWO LANE UNDIVIDED HIGHWAY TEE INTERSECTION BYPASS LANE

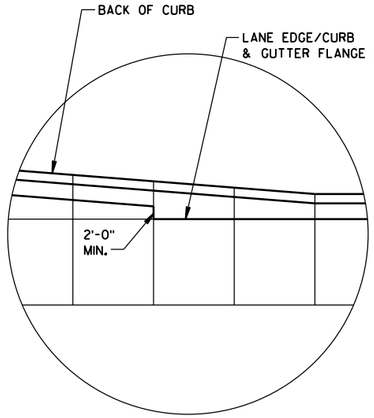
DETAIL FOR RIGHT TURN LANE/ TEE INTERSECTION BYPASS LANE ON A CONCRETE ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
12/18/12 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS ENGINEER
FHWA	

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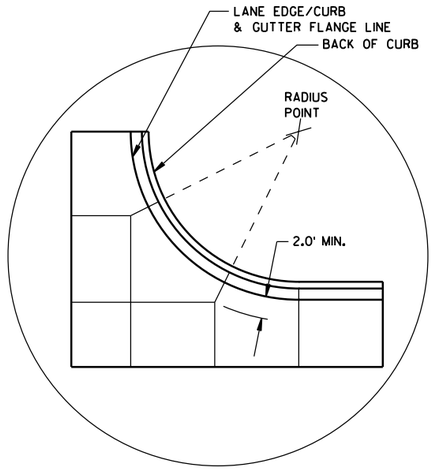
S.D.D. 13 C 16-2b



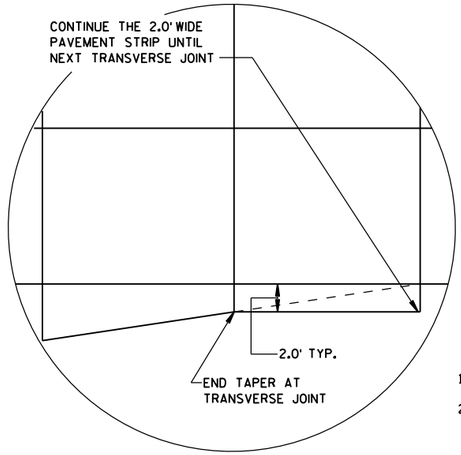
DETAIL "A"



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.

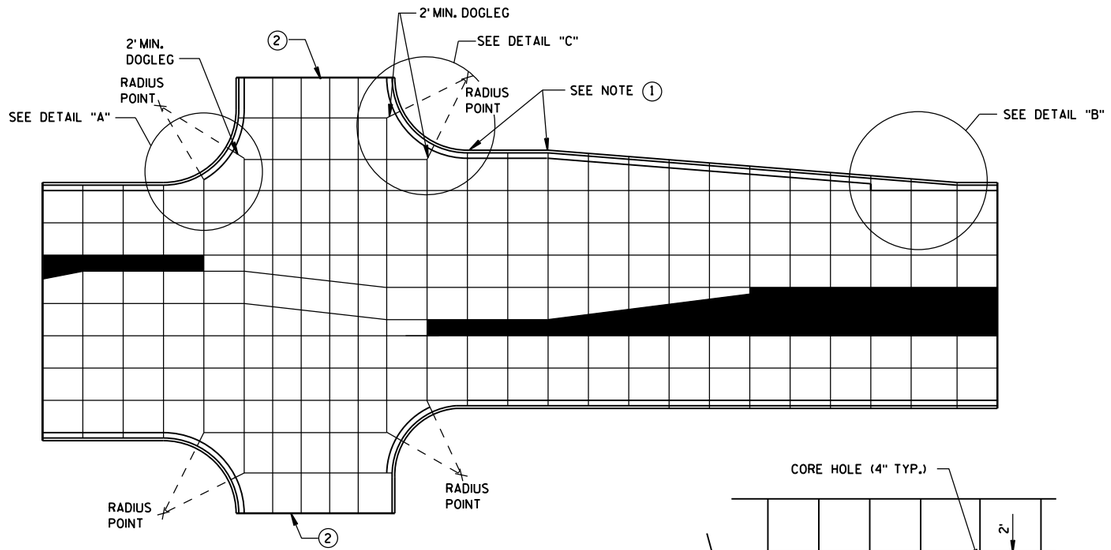
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

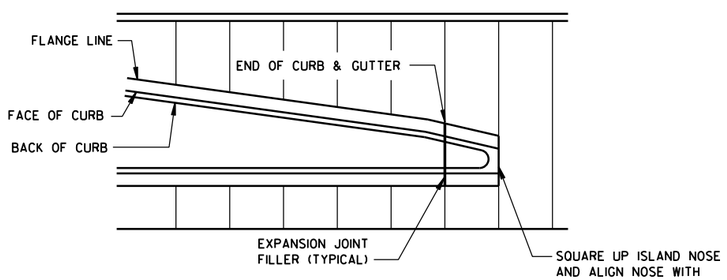


STANDARD INTERSECTION

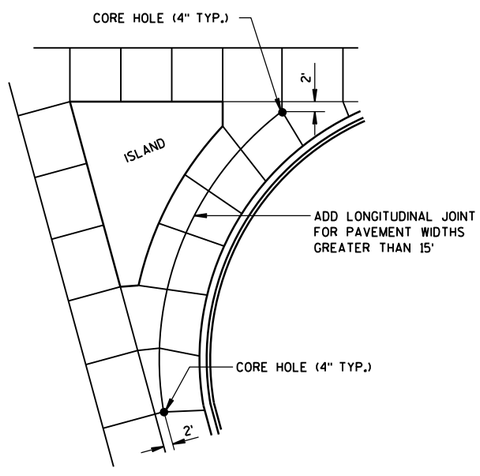
PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'

SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

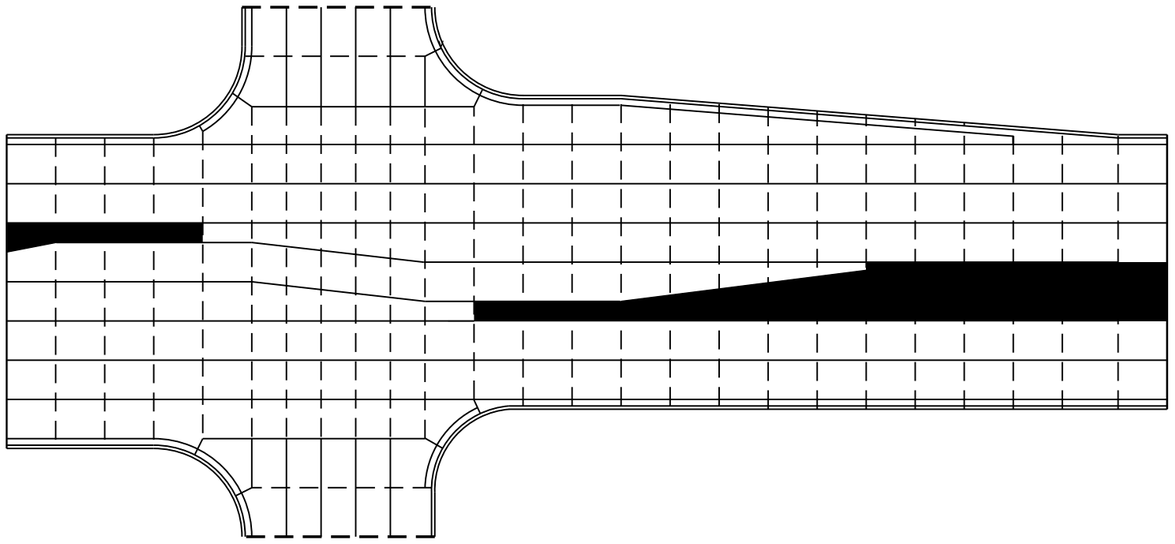
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S.D.D. 13 C 18-2a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

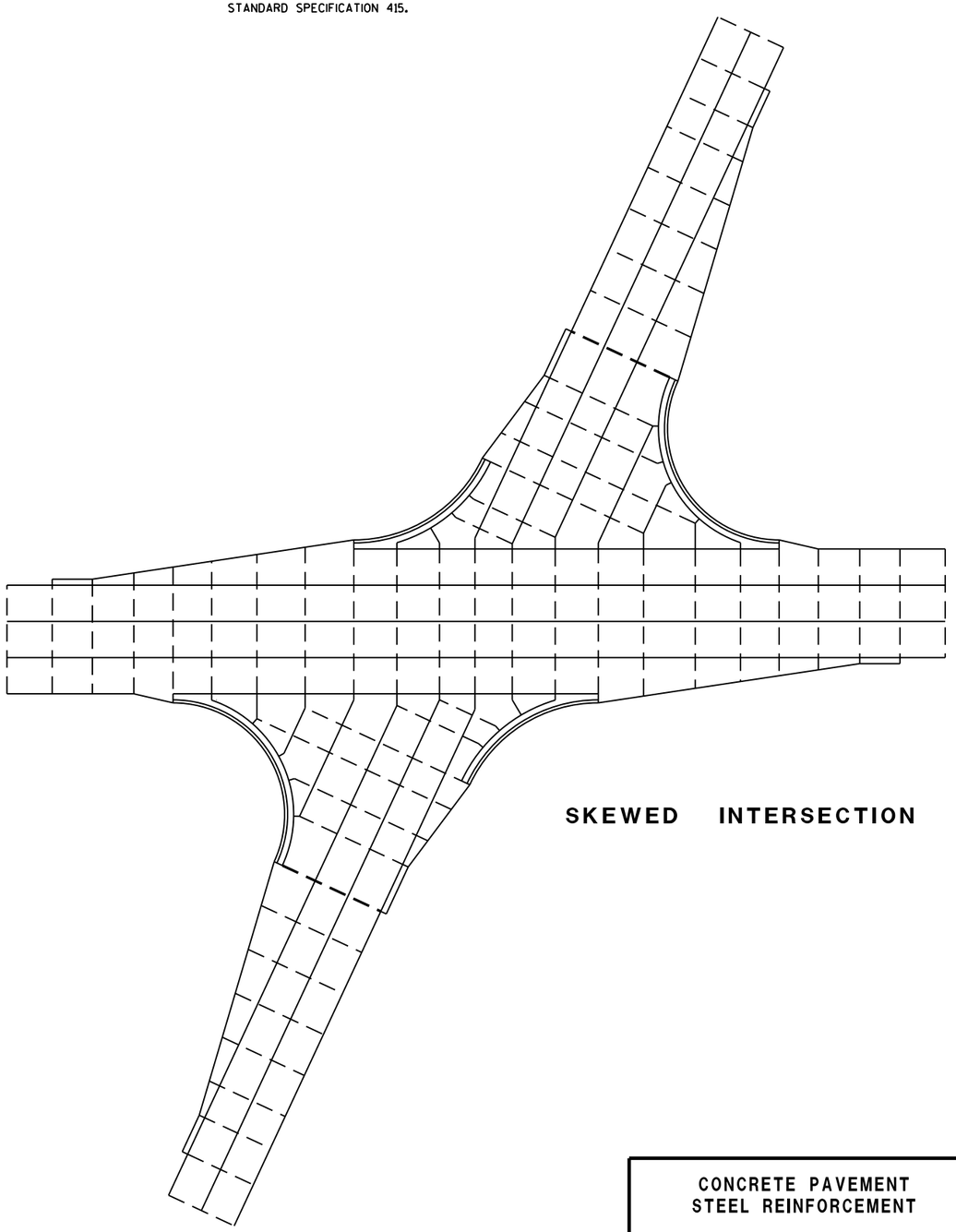
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

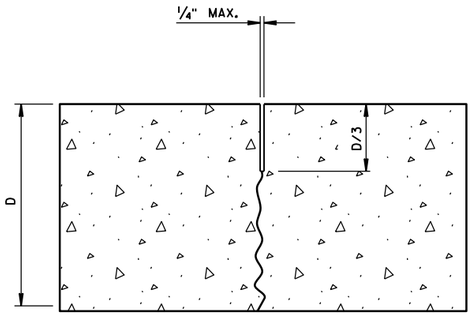
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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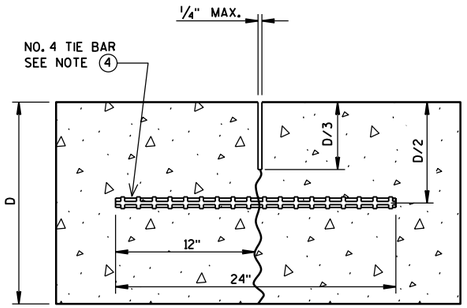
S.D.D. 13 C 18-2b

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S.D.D. 13 C 18-2b



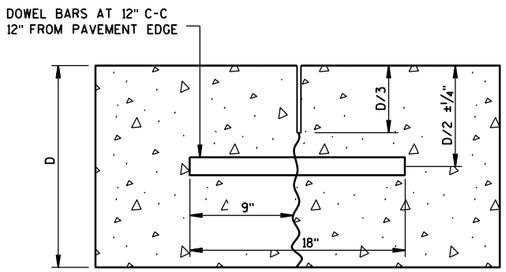
UNDOWELED-TRANSVERSE



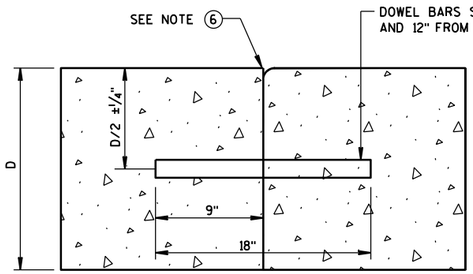
TIED LONGITUDINAL

GENERAL NOTES

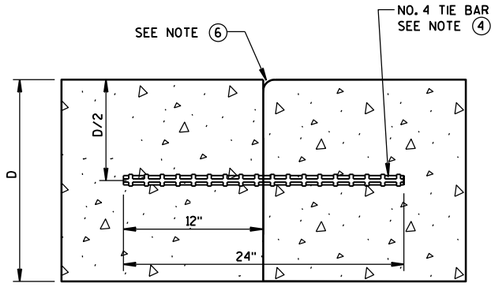
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO 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



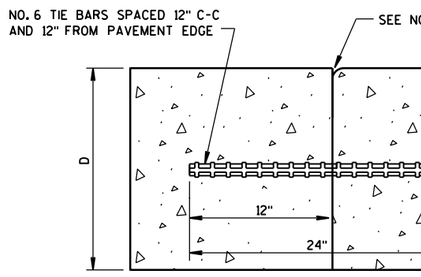
DOWELED TRANSVERSE



TIED LONGITUDINAL

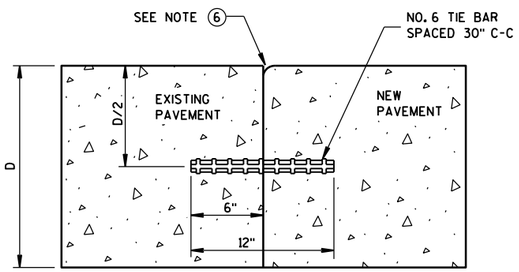
CONTRACTION JOINTS

SEE NOTE (2)



TIED TRANSVERSE

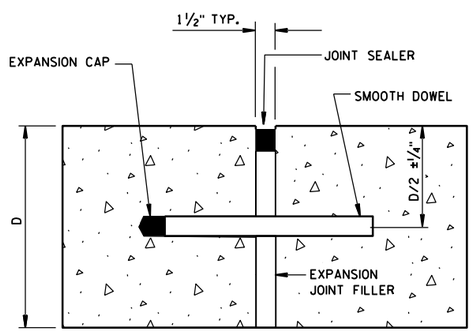
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

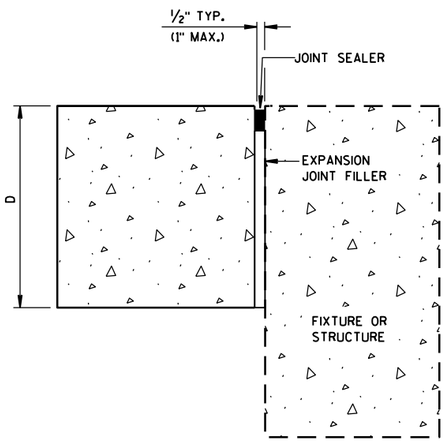
CONSTRUCTION JOINTS

SEE NOTE (5)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

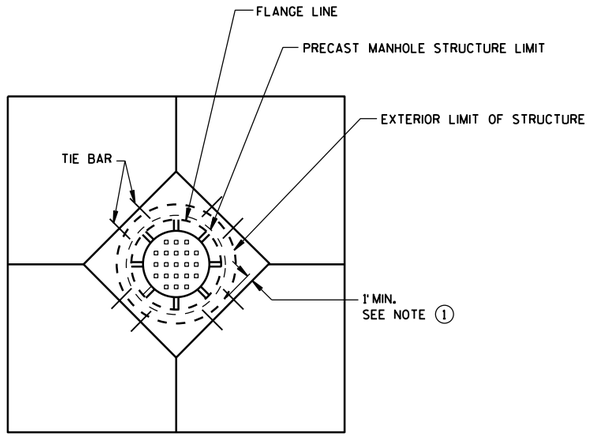
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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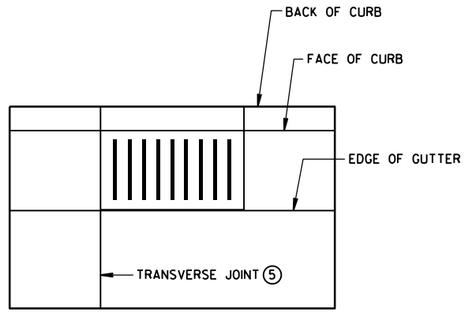
S.D.D. 13 C 18-2c

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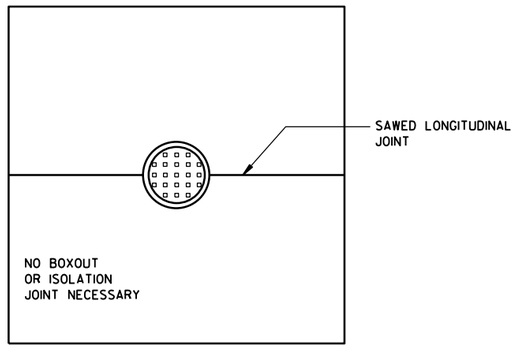
S.D.D. 13 C 18-2c



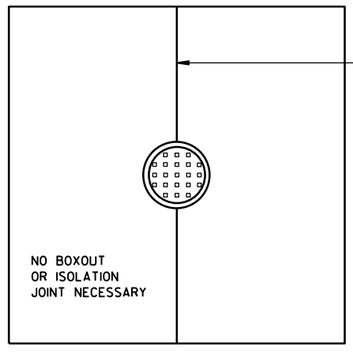
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



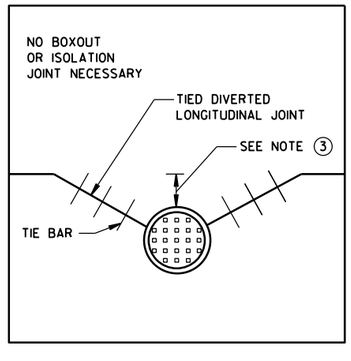
INLET WITH TRANSVERSE JOINT



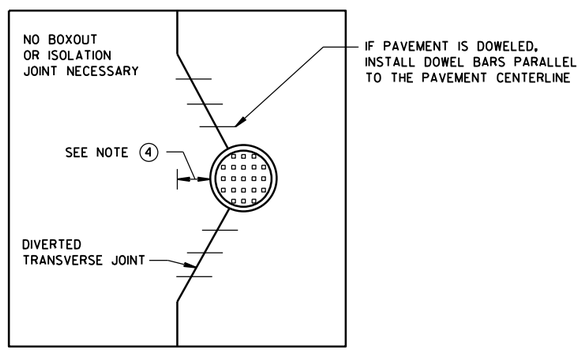
MANHOLE WITH LONGITUDINAL JOINT



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 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE 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

5-3-2013
DATE

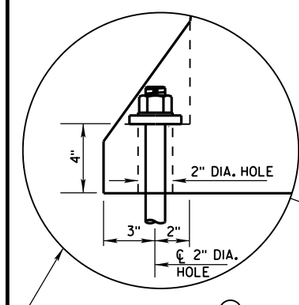
/S/ Deb Bischoff
PAVEMENT POLICY & DE

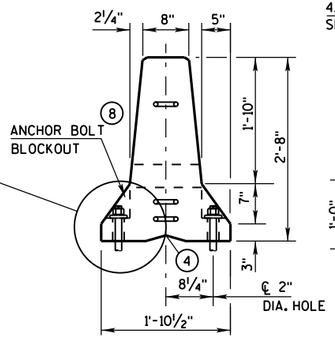
NEER

FHWA

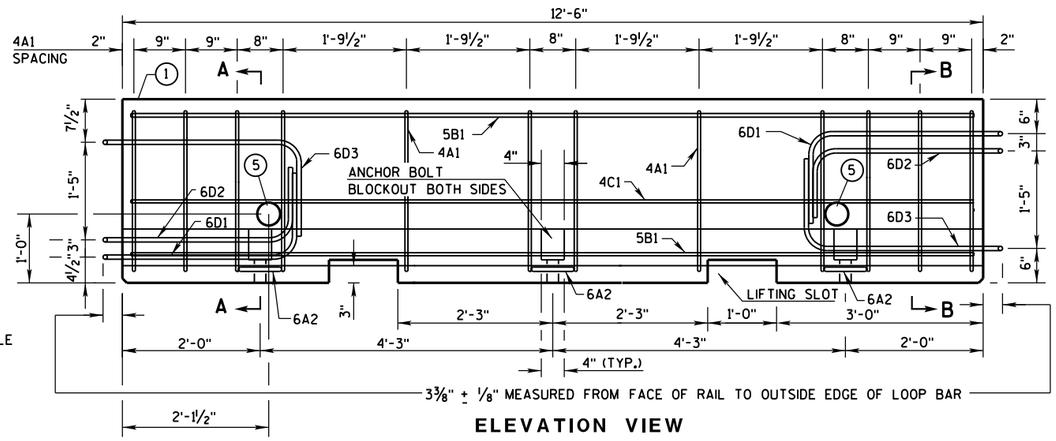
6

S.D.D. 13 C 18-2d

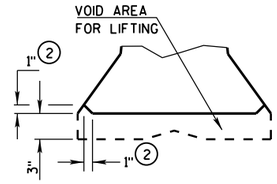




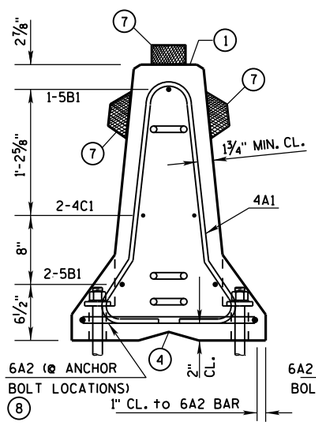
END VIEW



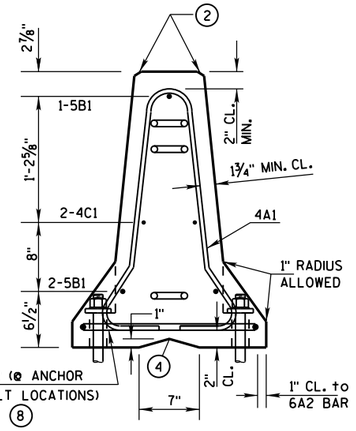
ELEVATION VIEW



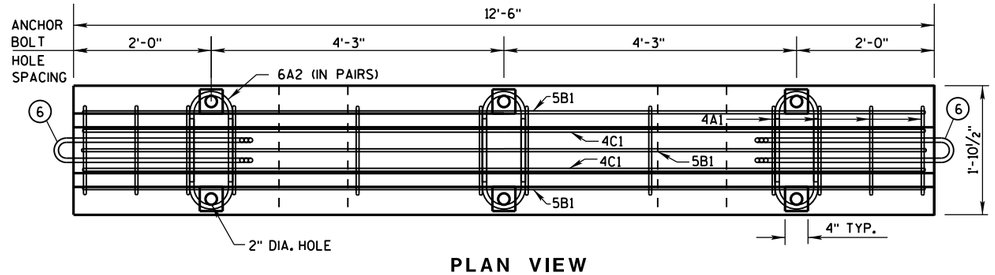
DETAIL "B"
LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)



PLAN VIEW

DETAILS OF BARRIER SECTION

GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-14(a) THRU 14B7-14(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: WI CBTP
- 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.

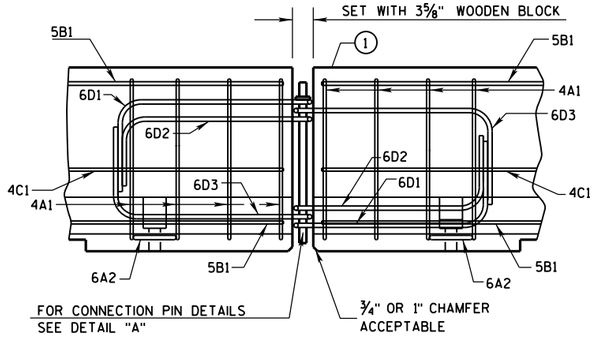
(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

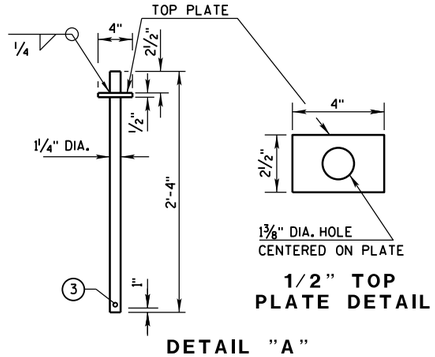
(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED 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.

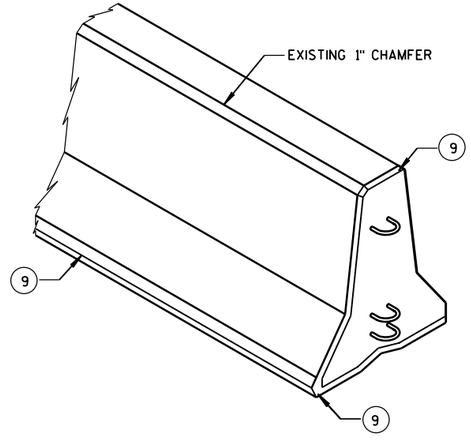


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

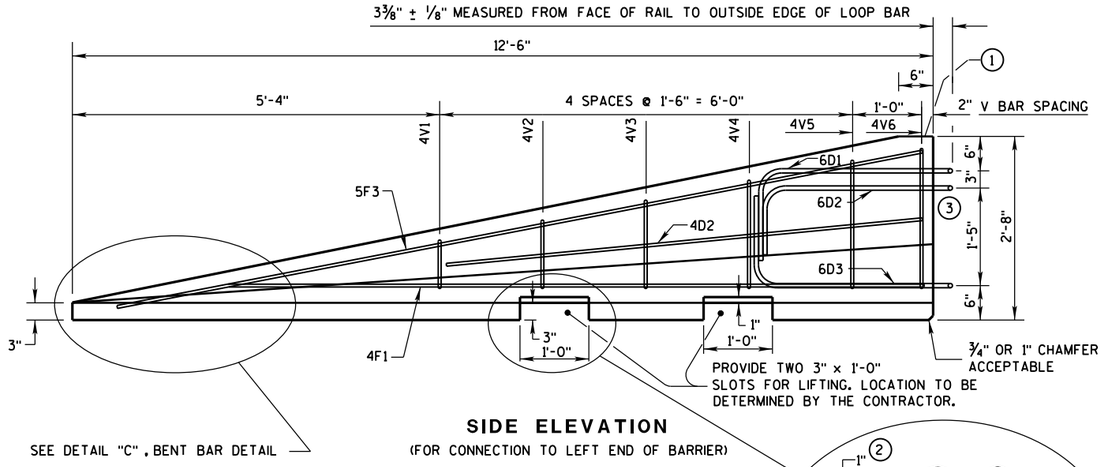
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 390

6

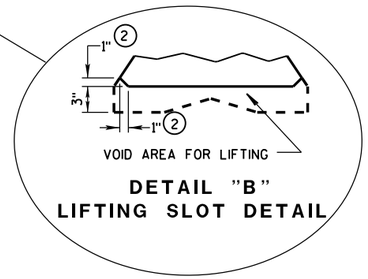
S.D.D. 14 B 7-14a

6

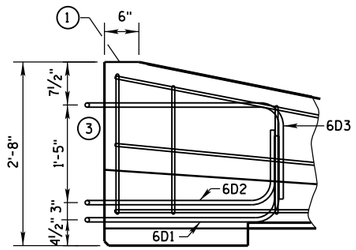
S.D.D. 14 B 7-14a



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



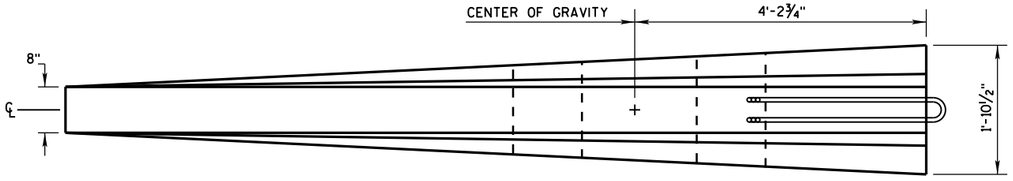
DETAIL "B"
LIFTING SLOT DETAIL



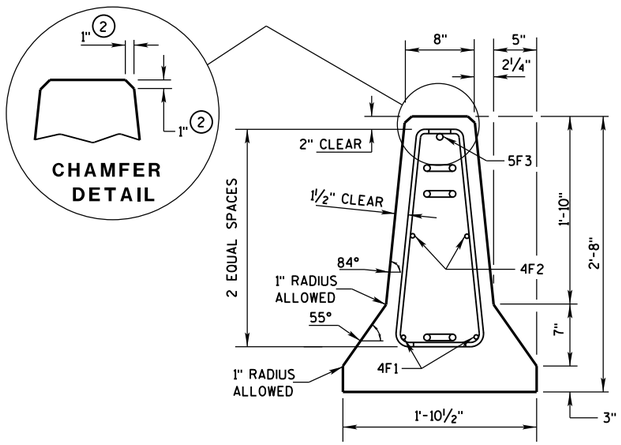
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

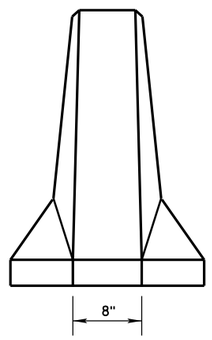
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



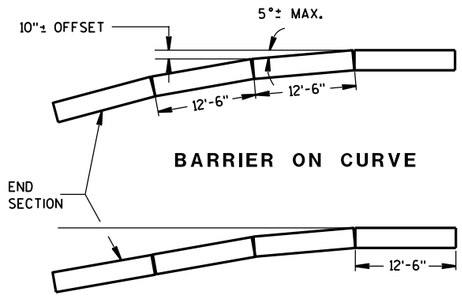
PLAN VIEW



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"

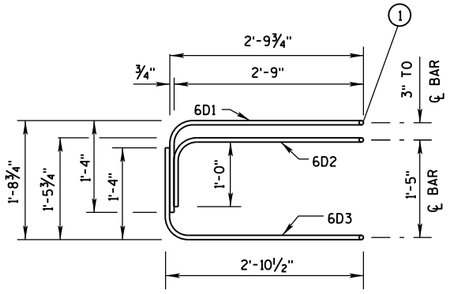
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 7-14b

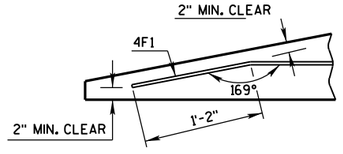
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

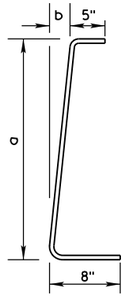
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



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

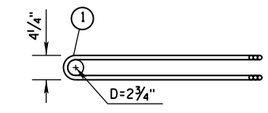
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

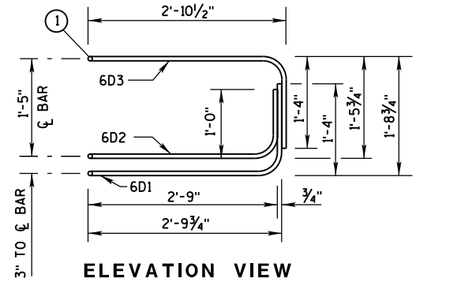
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

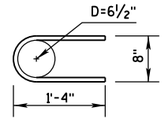
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



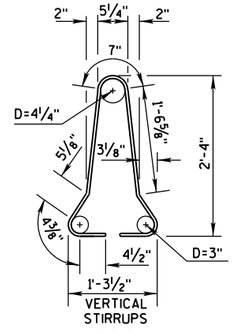
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



ELEVATION VIEW



6A2



4A1

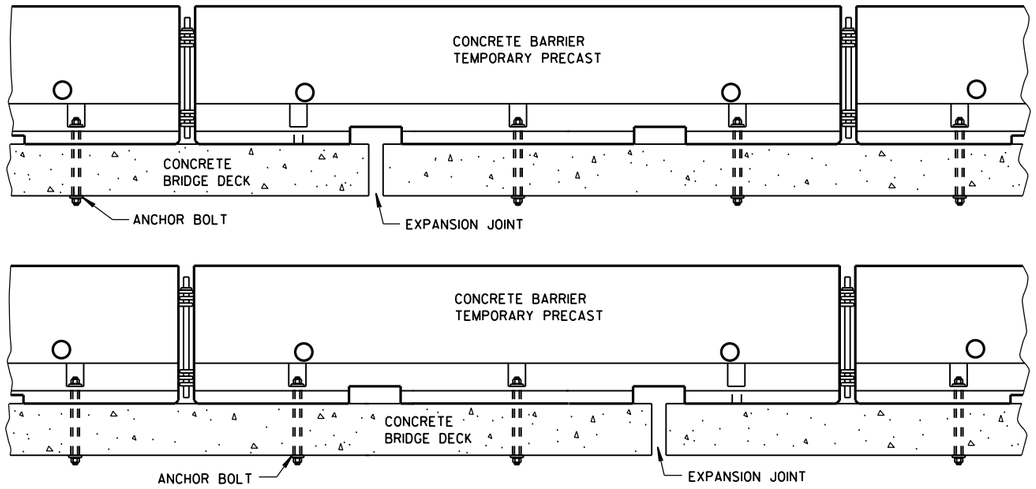
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

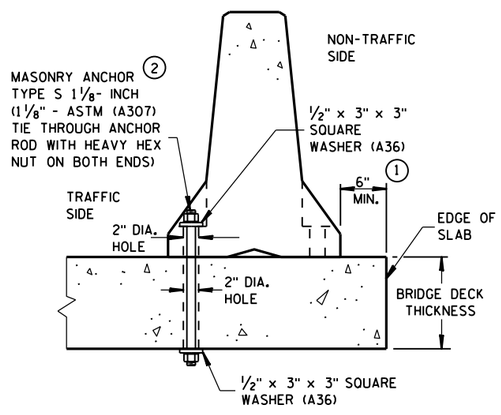
6

S.D.D. 14 B 7-14c



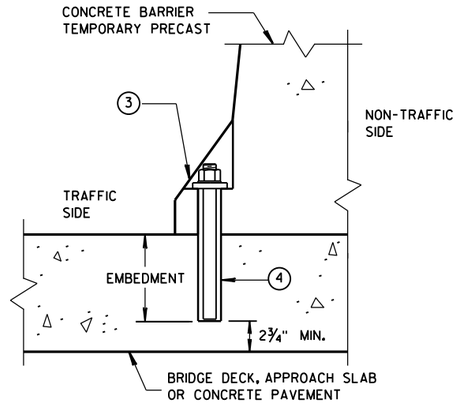
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(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 ② INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(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.

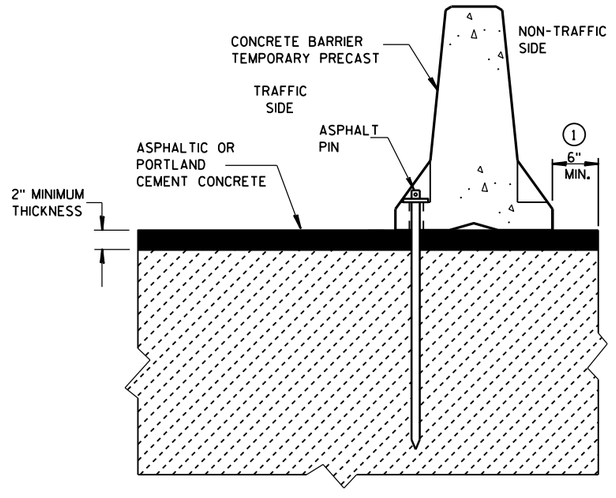
② ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

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.

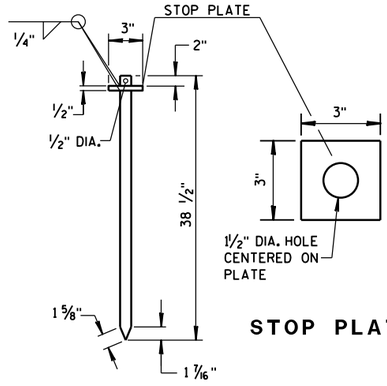
③ 1⅛" DIAMENTER A307 THREADED ROD, ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.

④ ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

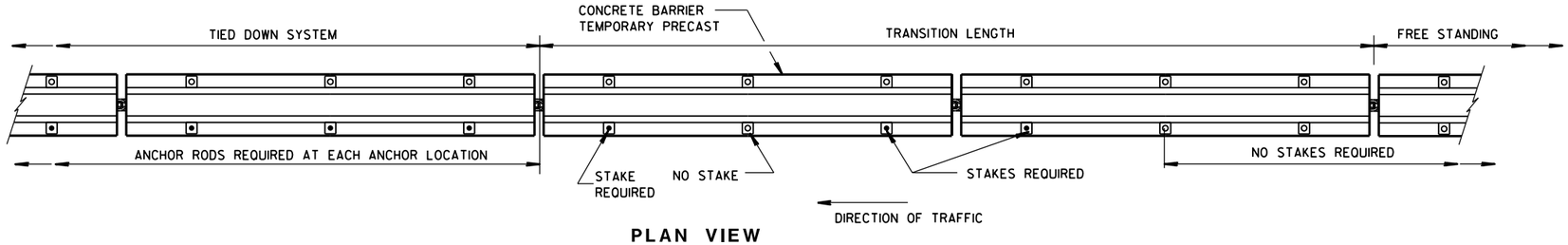
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN

(ASTM A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

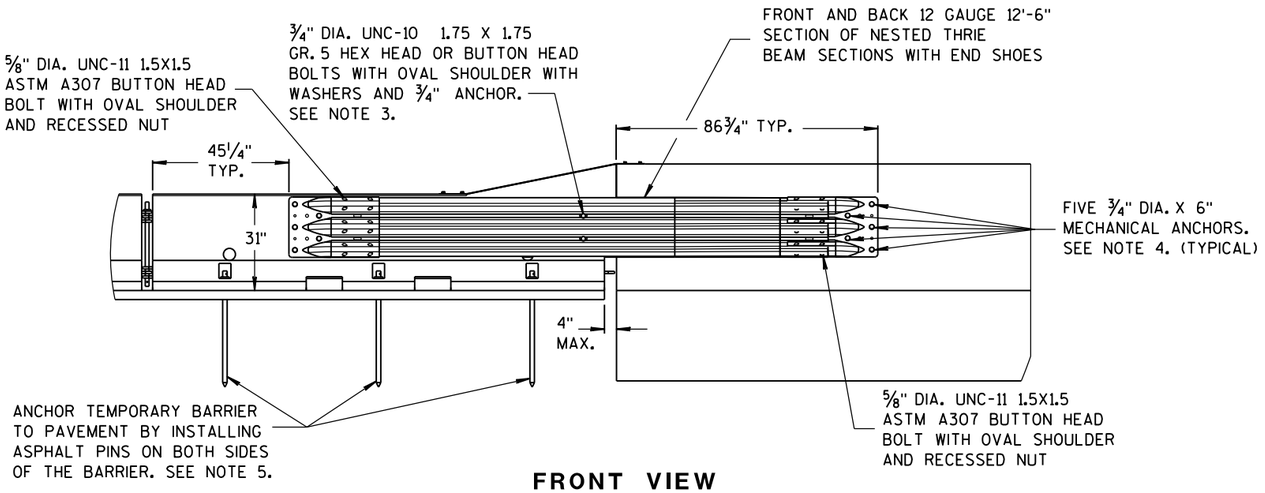
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

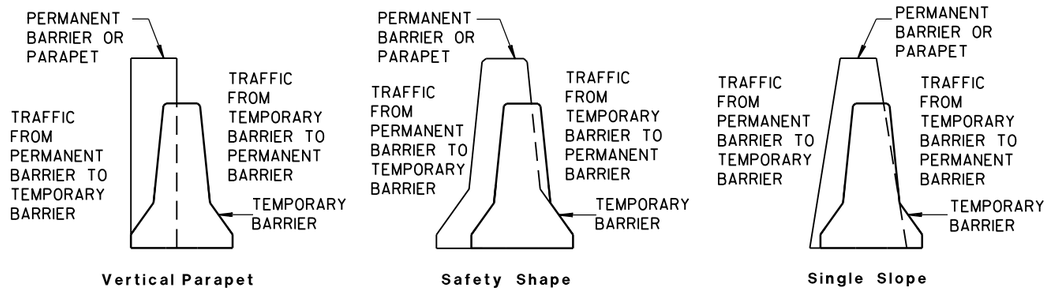
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-14d



FRONT VIEW



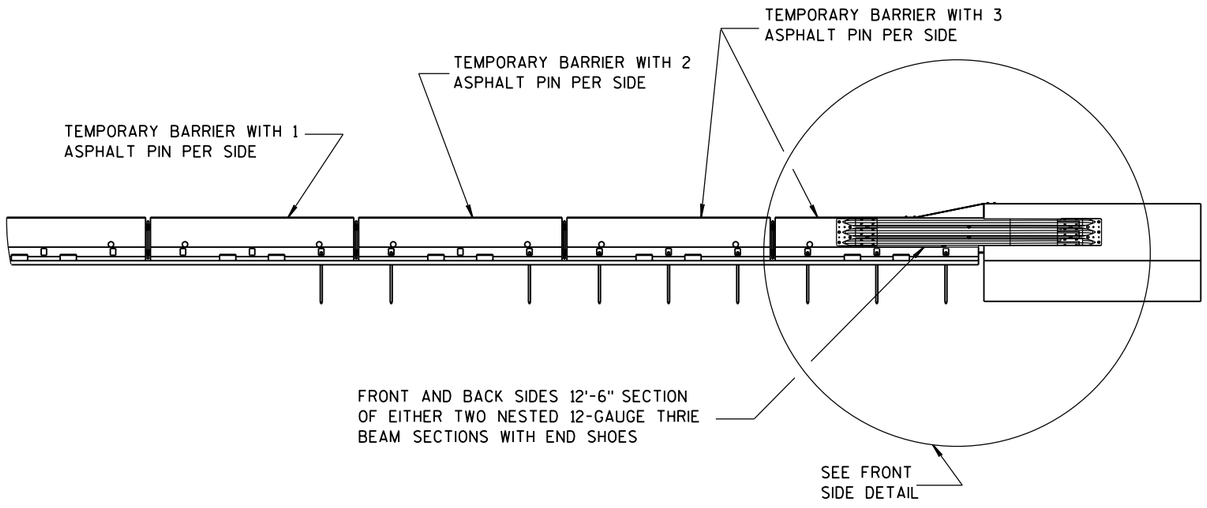
TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

NOTES

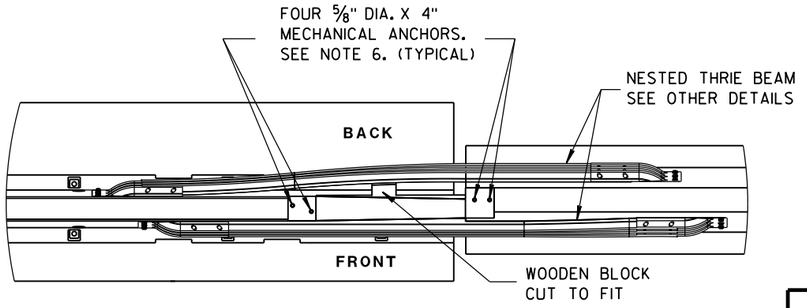
NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" 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.

BACK VIEW



FRONT VIEW



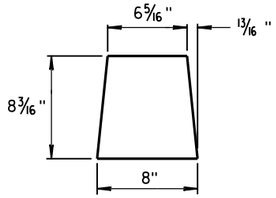
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

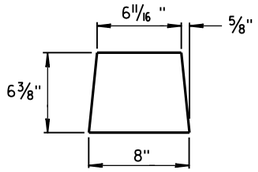
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

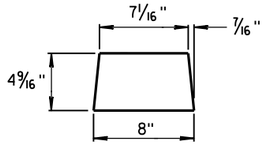
6
S.D.D. 14 B 7-14e



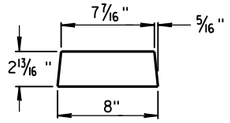
GUSSET 1



GUSSET 2

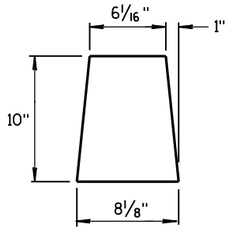


GUSSET 3

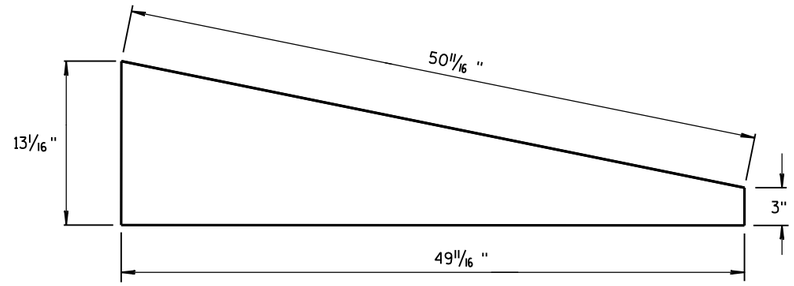


GUSSET 4

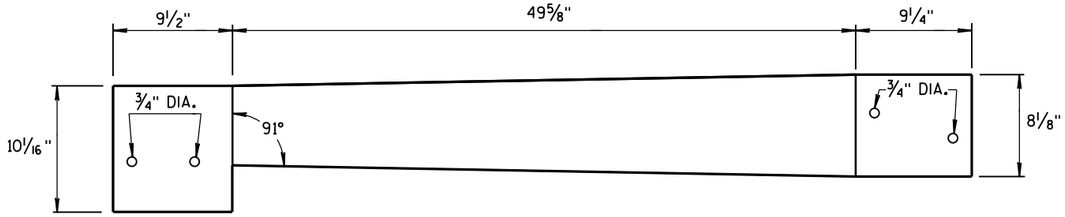
GUSSETS

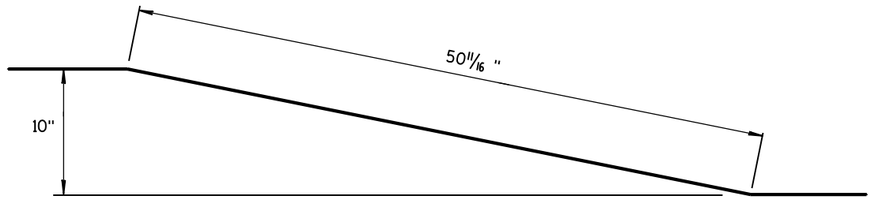


END PLATE



SIDE PLATE

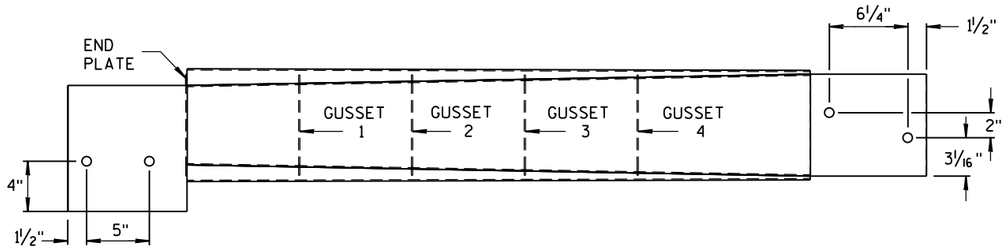


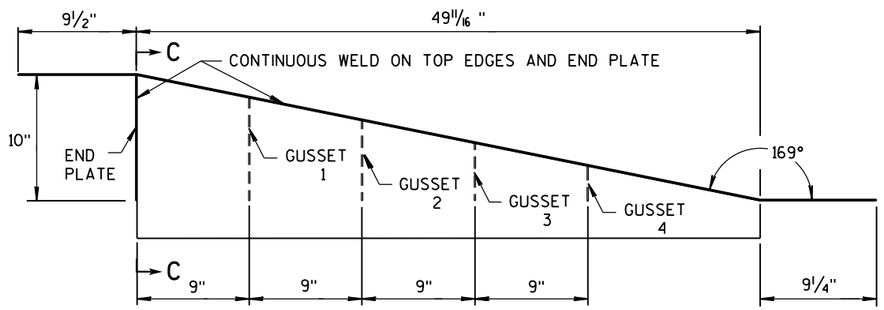


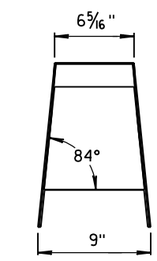
TOP PLATE

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.







SECTION C-C

NOTES

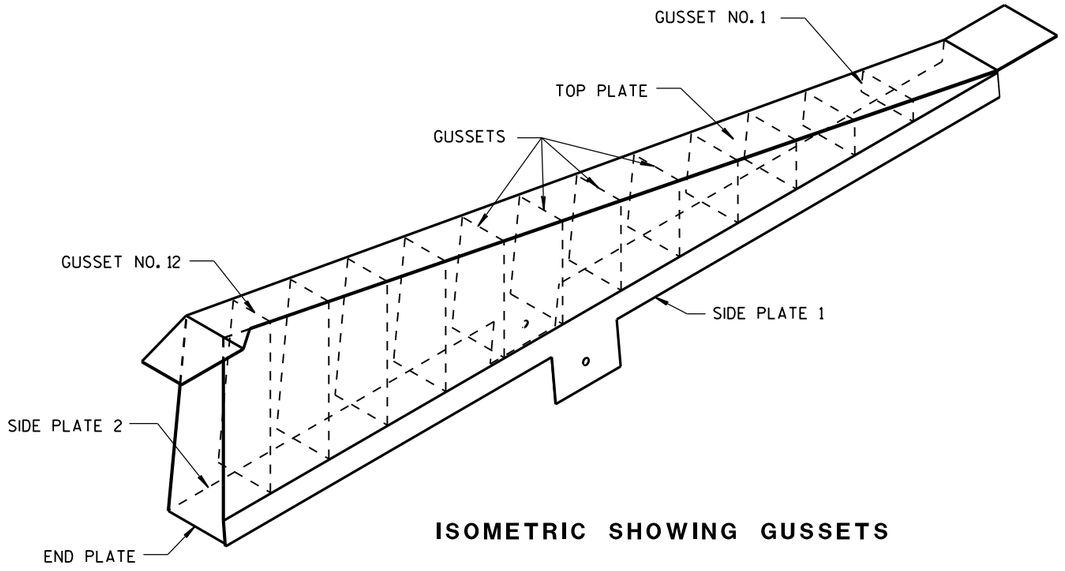
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

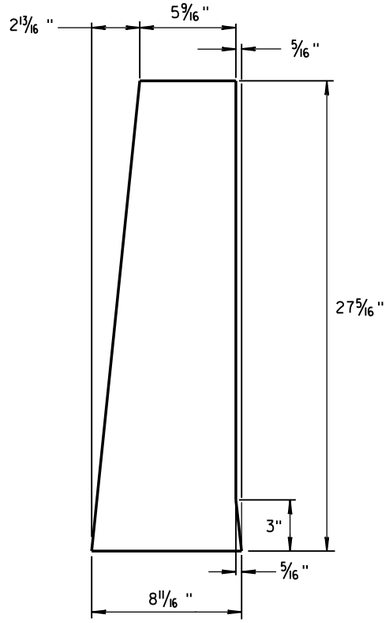
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-14f

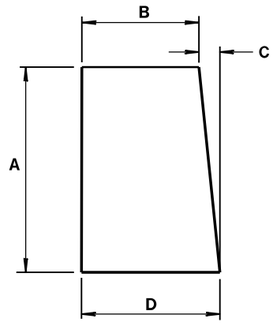


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



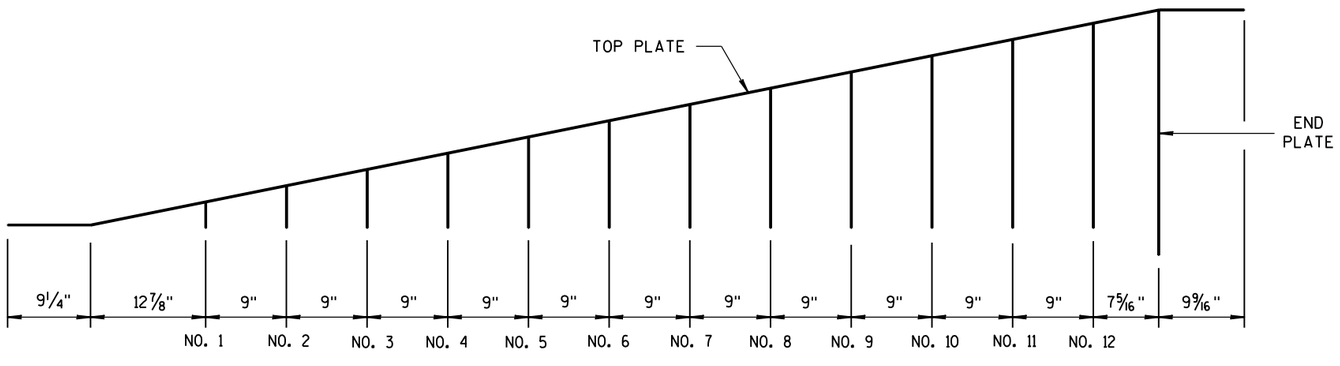
GUSSETS 1 - 12

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

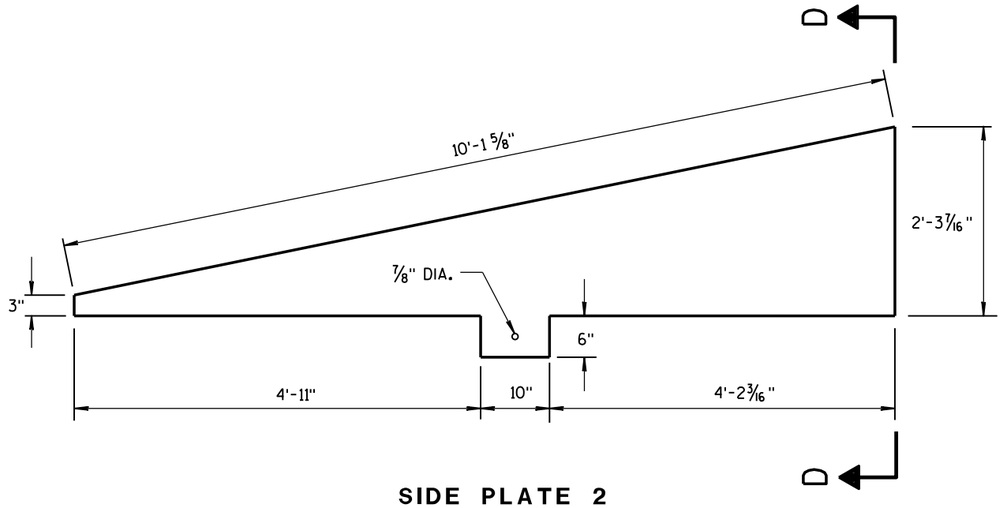
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

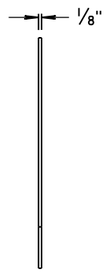
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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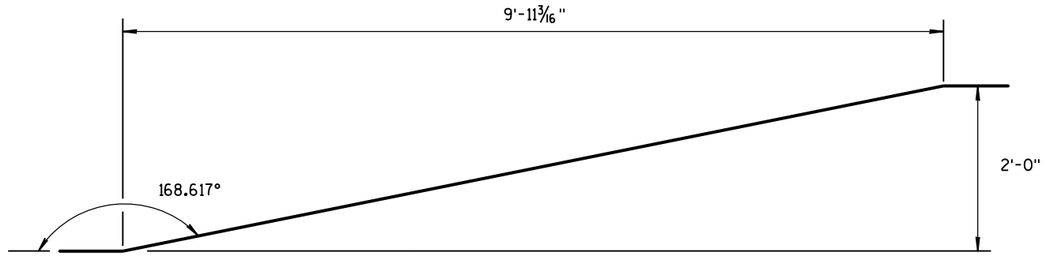
S.D.D. 14 B 7-14g



SIDE PLATE 2

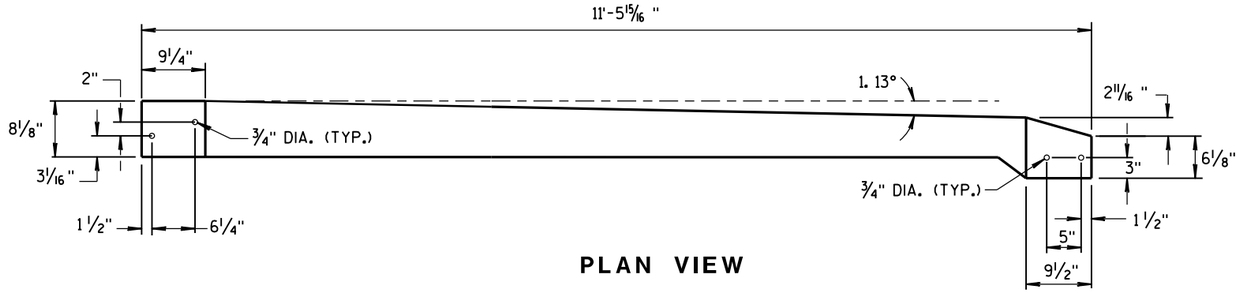


END VIEW



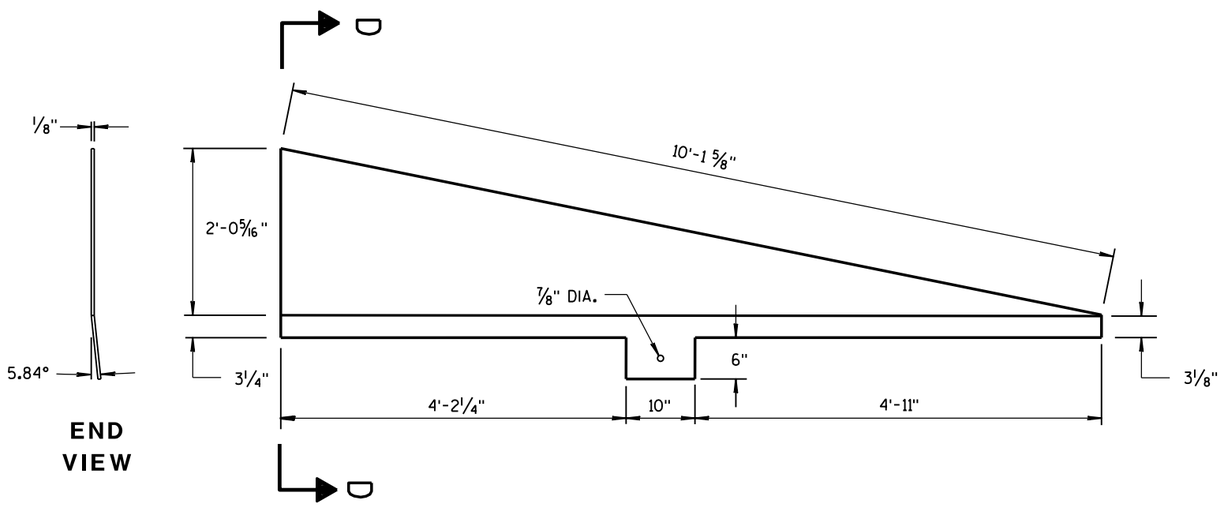
SIDE VIEW

TOP PLATE



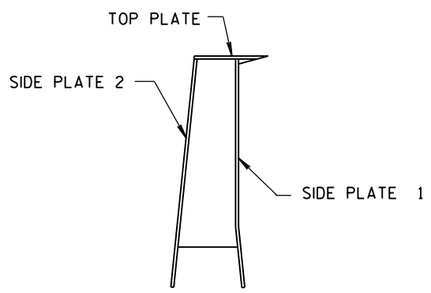
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

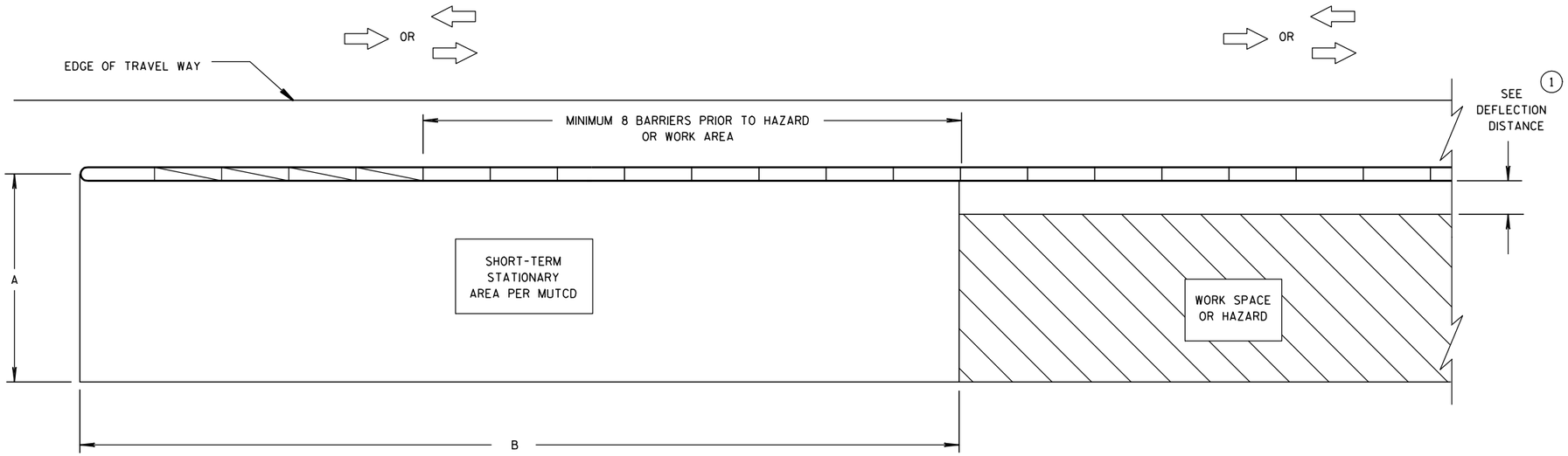
APPROVED
June 2014 — DATE
/S/ Jerry H. Zoaa — ROADWAY STANDARD DEVELOPMENT ENGINEER
FHWA

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S.D.D. 14 B 7-14h

6

S.D.D. 14 B 7-14h



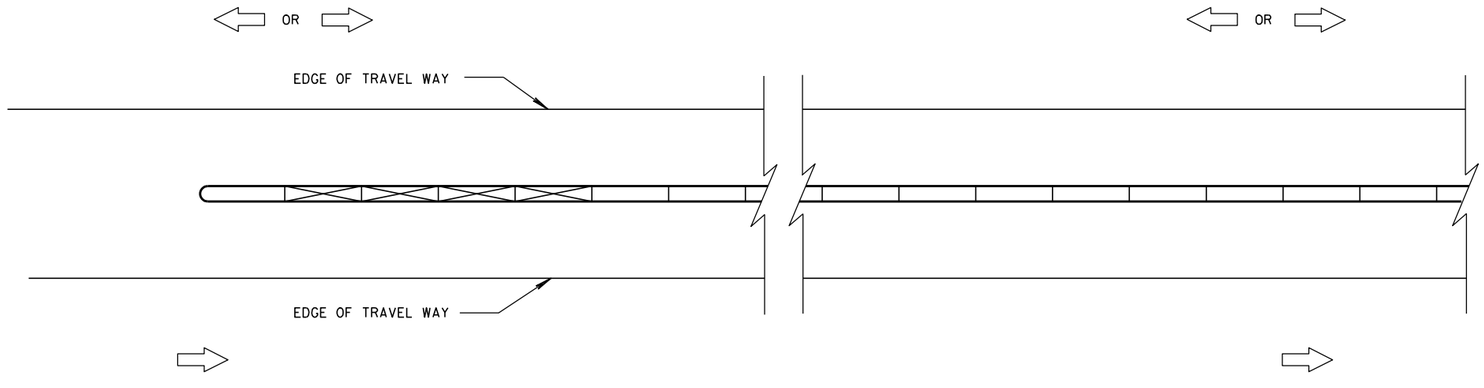
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

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



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF 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

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.

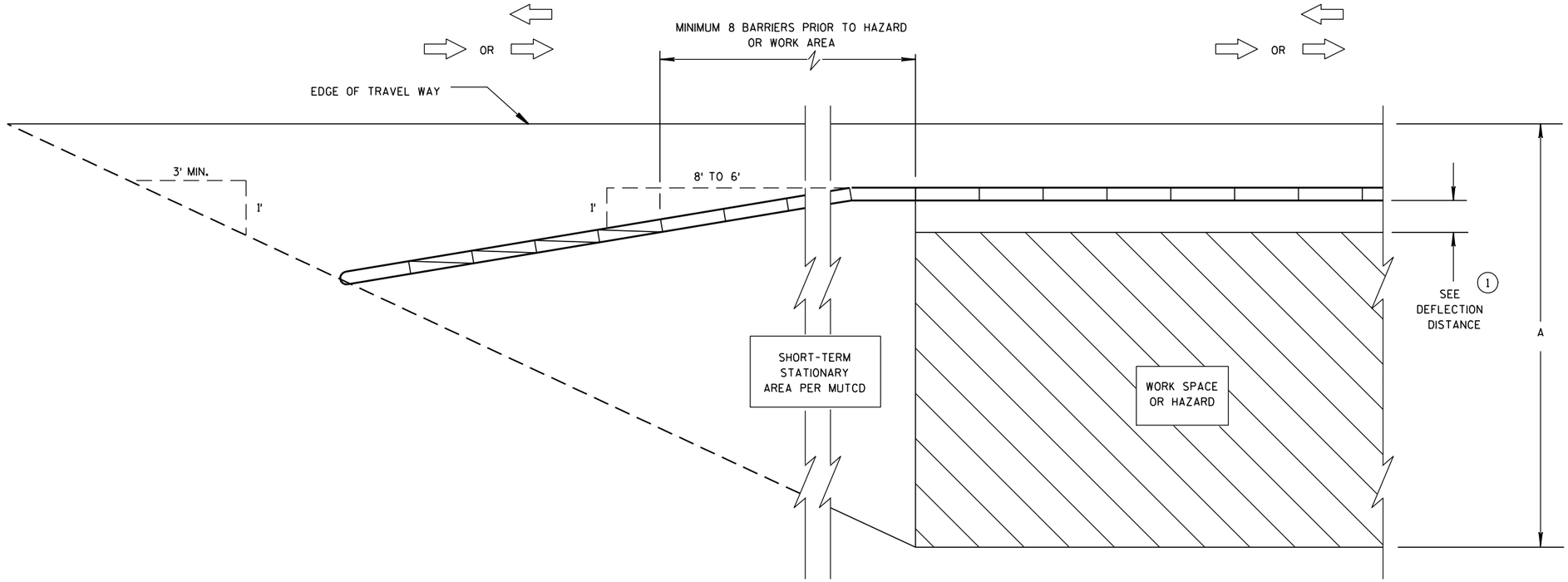
(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

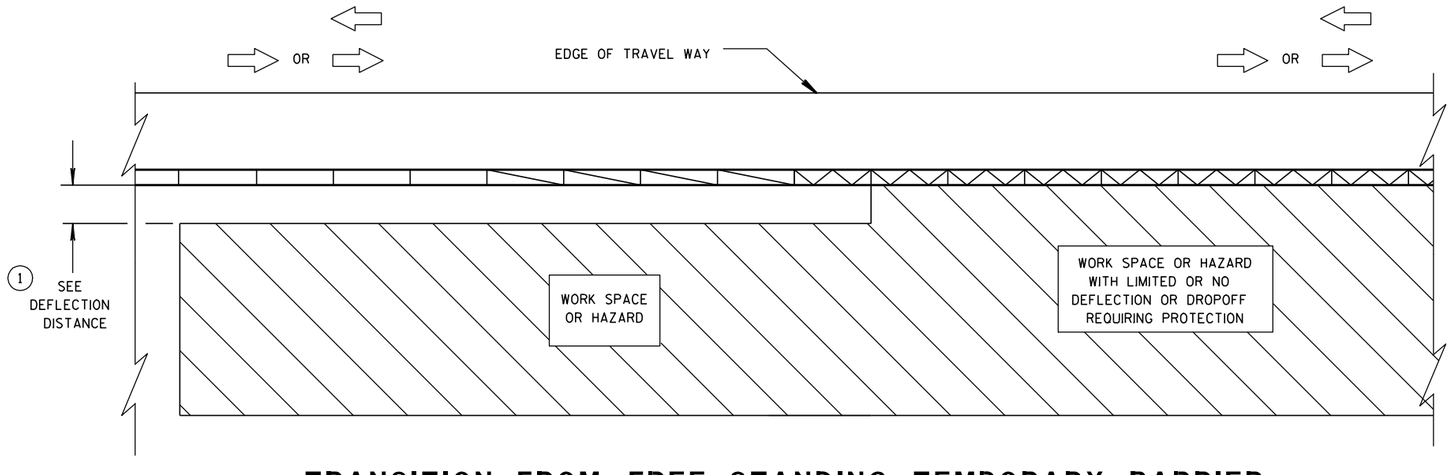
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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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

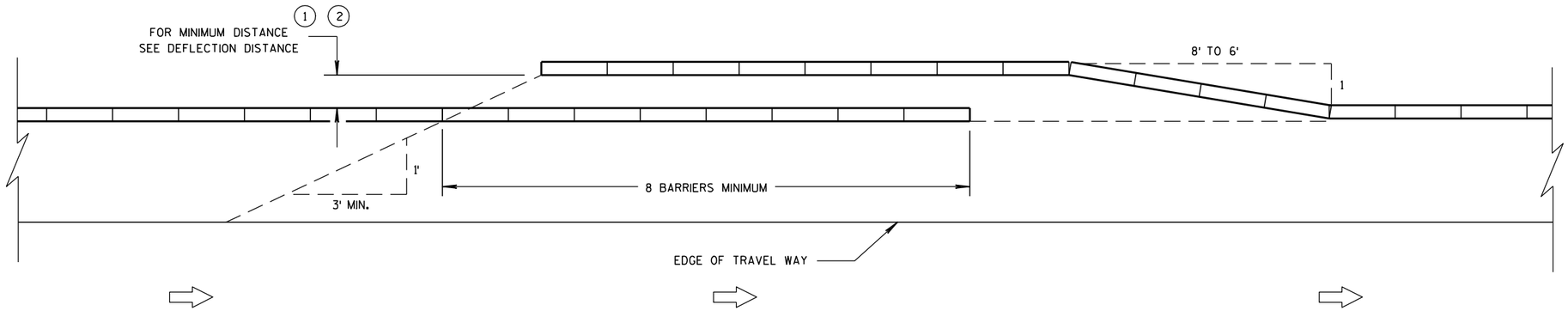
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

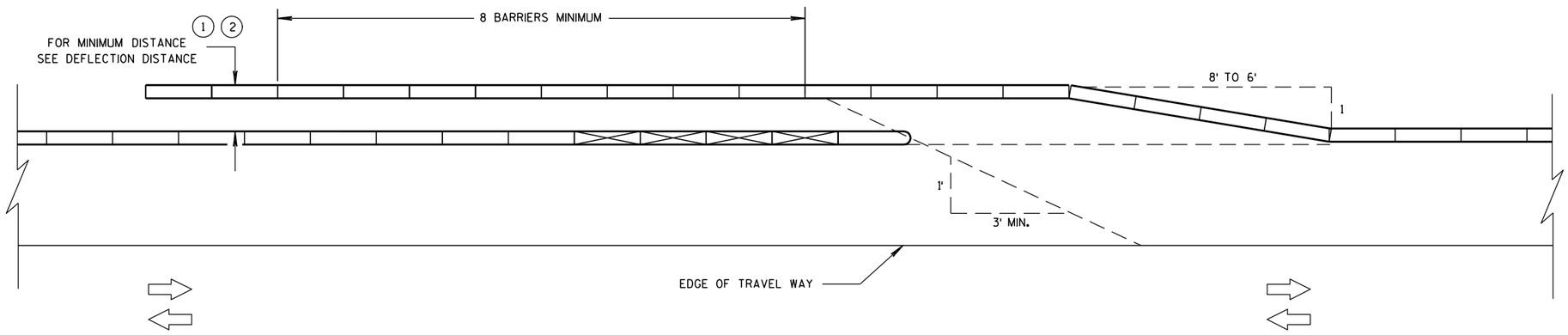
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

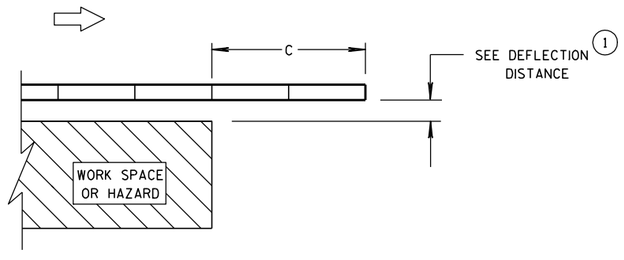
S.D.D. 14 B 8-1b



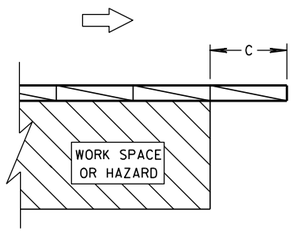
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

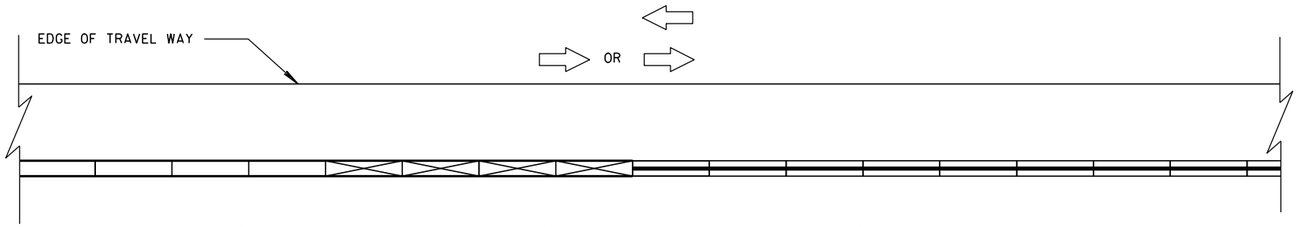
LEGEND

- 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

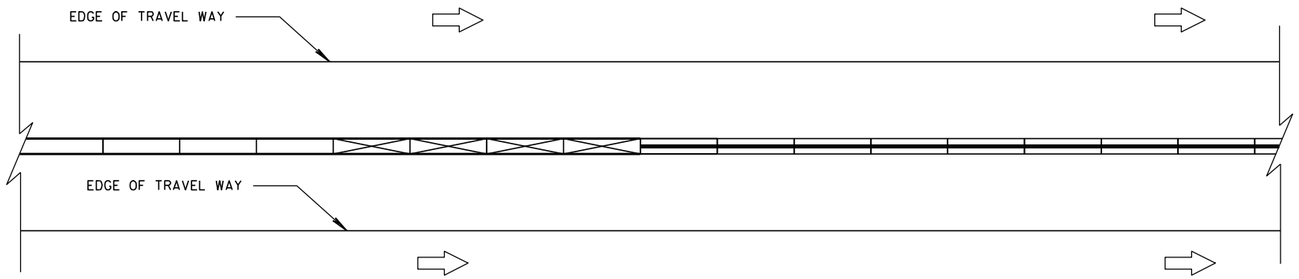
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

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

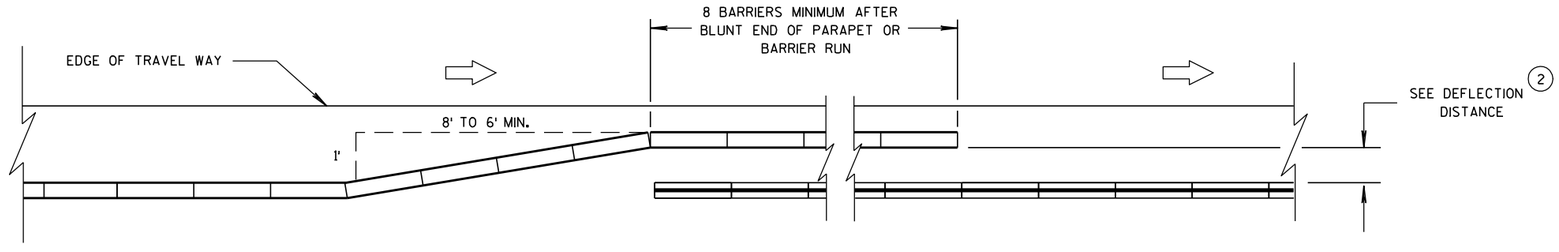
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

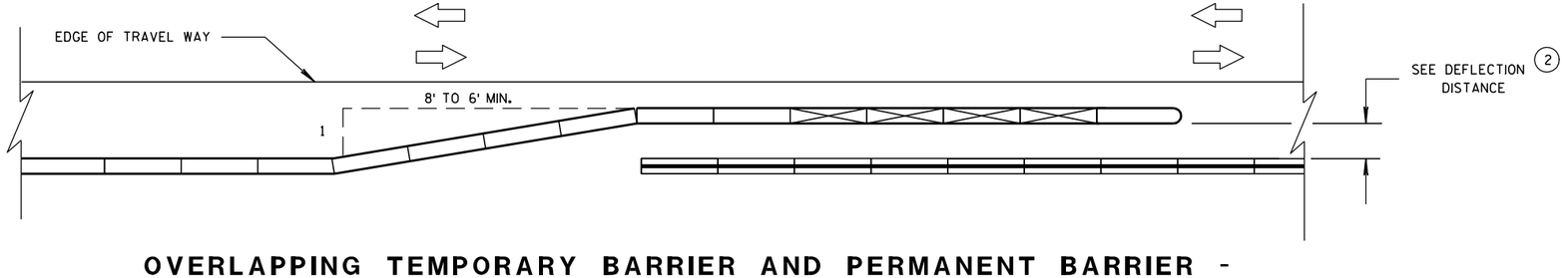
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

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...

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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

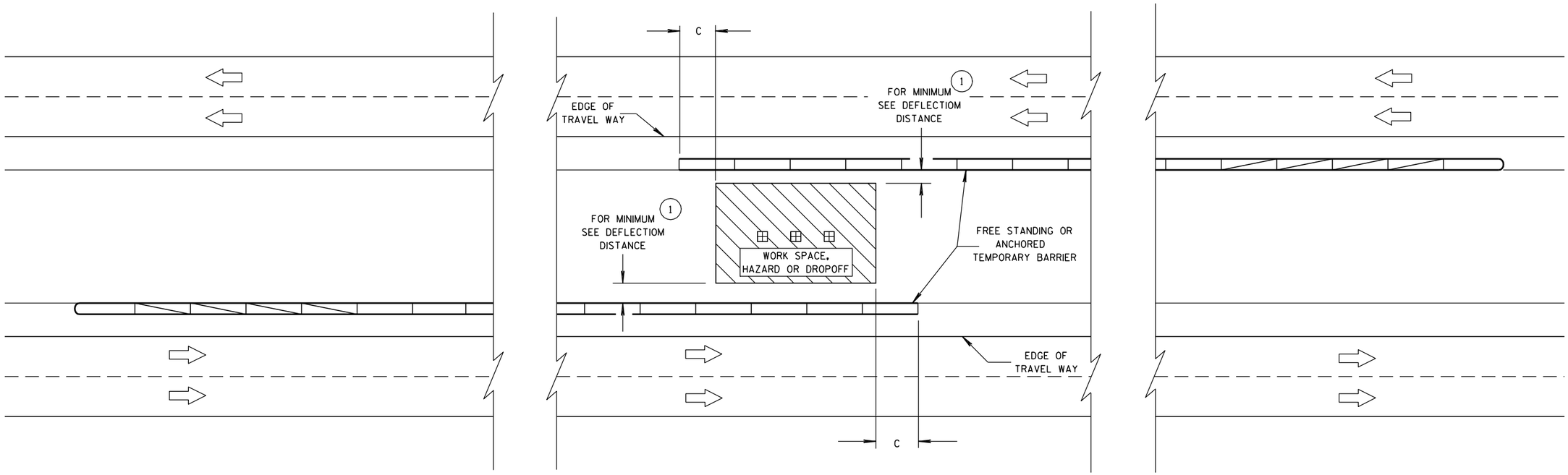
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

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

402

FHWA

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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.

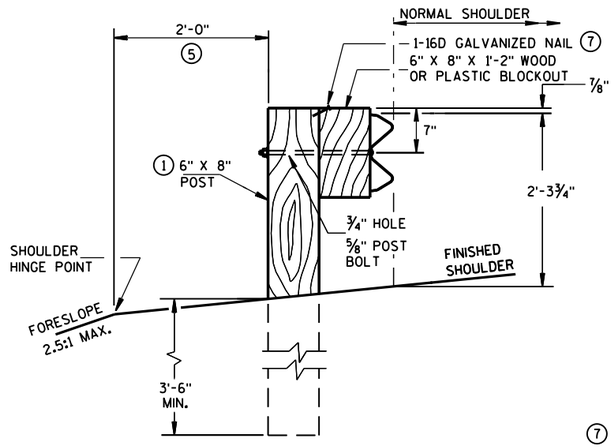
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(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.

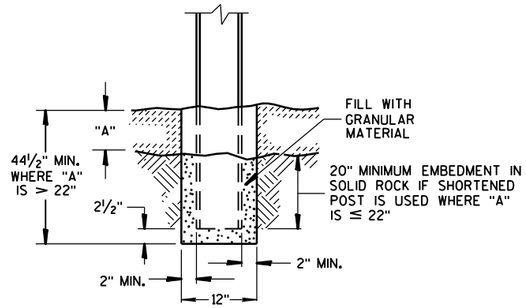
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

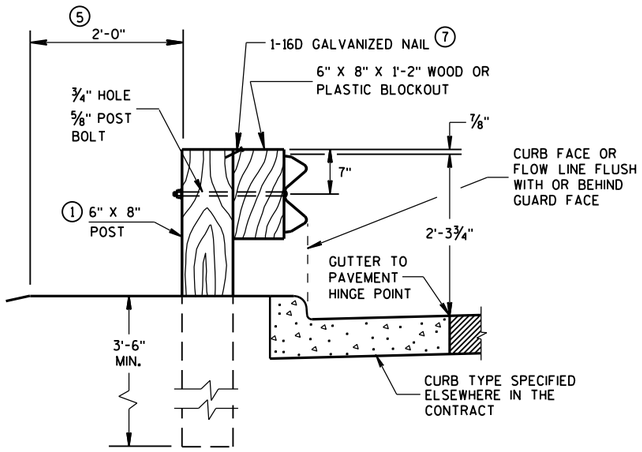
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



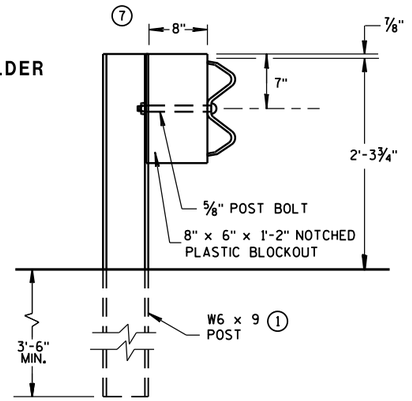
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



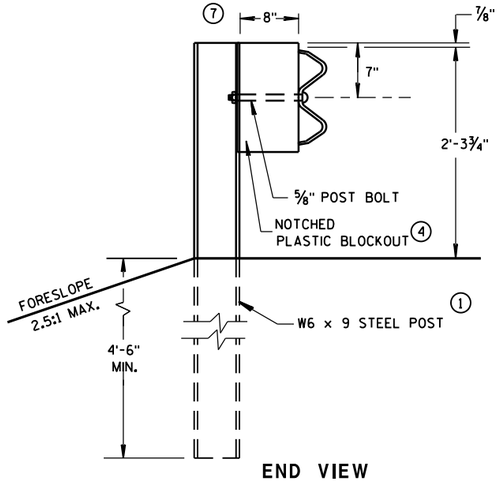
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)



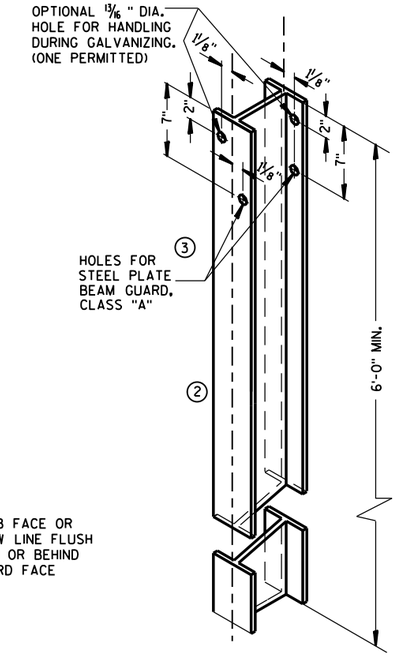
END VIEW
LOCATED ALONG A CURBED ROADWAY



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION

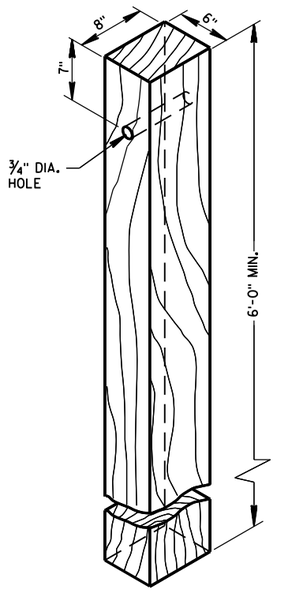


END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)

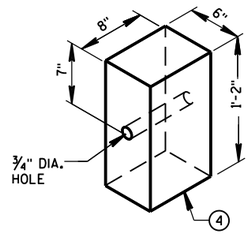


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

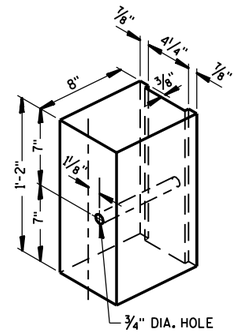
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



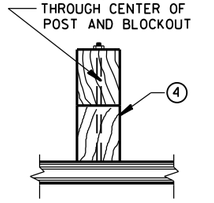
WOOD POST
(6"X8") NOMINAL



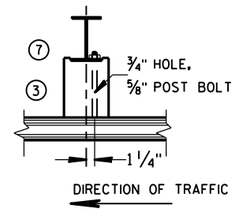
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



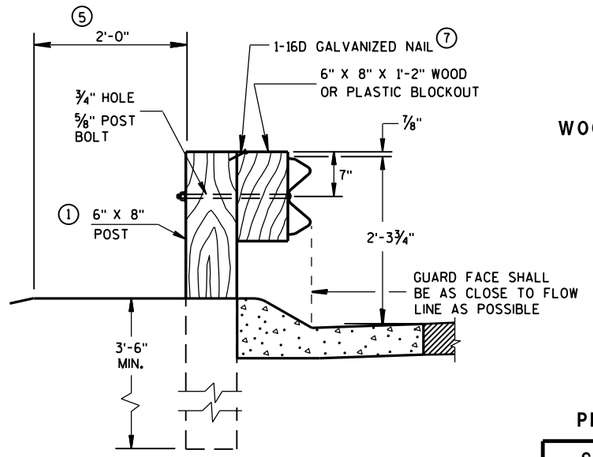
TYPICAL NOTCHED (1)
PLASTIC BLOCKOUT
FOR STEEL POSTS



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM

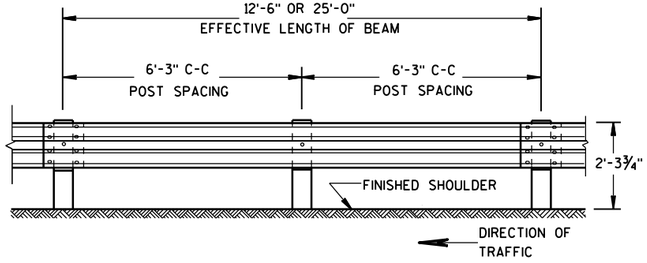


END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

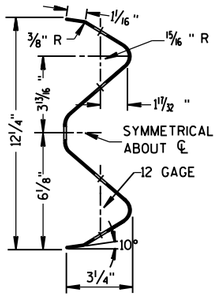
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 403

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

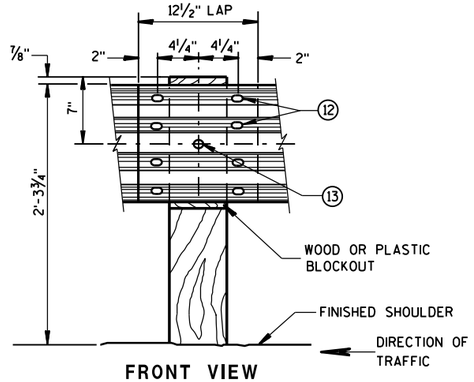


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

GENERAL NOTES

(8) PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

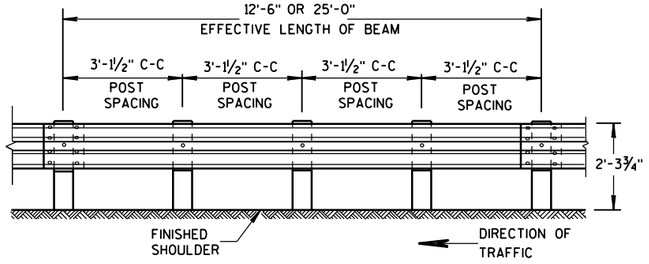
(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(10) REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

(11) PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

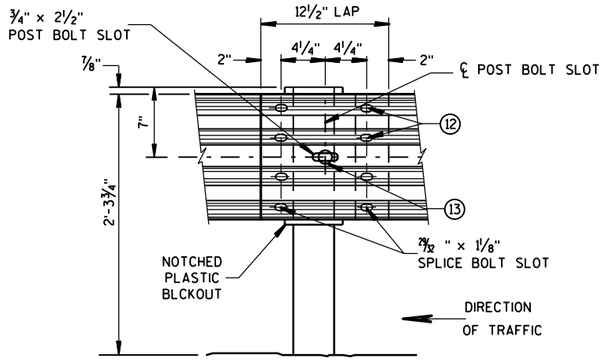
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

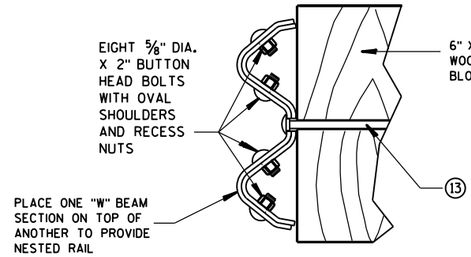
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

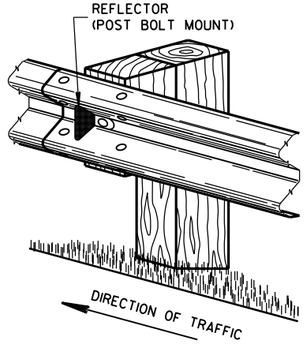


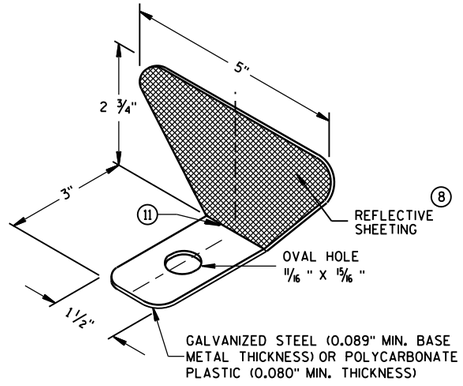
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

REFLECTOR SPACING (9)

	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 (10)	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2 (11)	3
	> 200'	100' C-C	2	



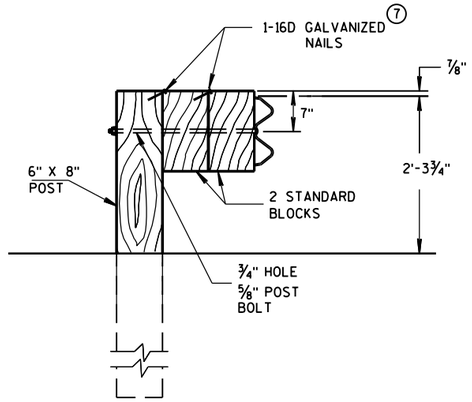


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (8)

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

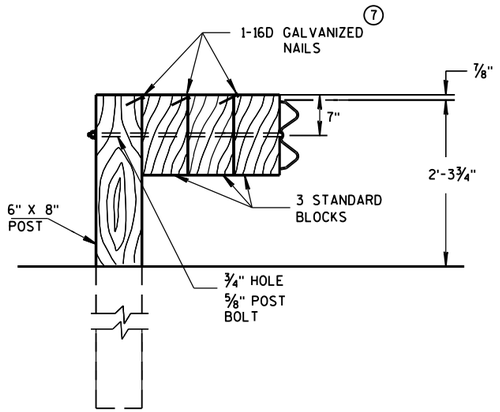
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 15-8b



DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

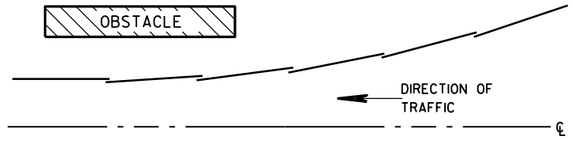


DETAIL FOR TRIPLE BLOCKS

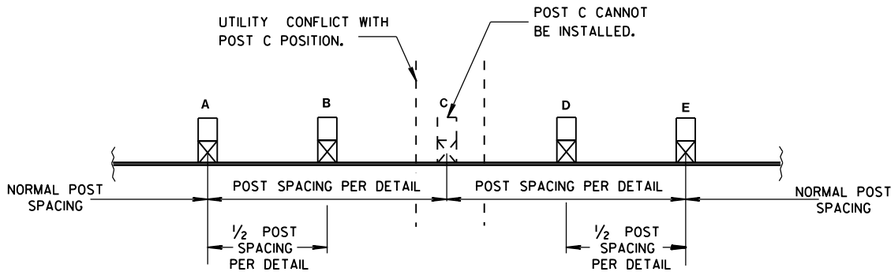
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

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.



PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

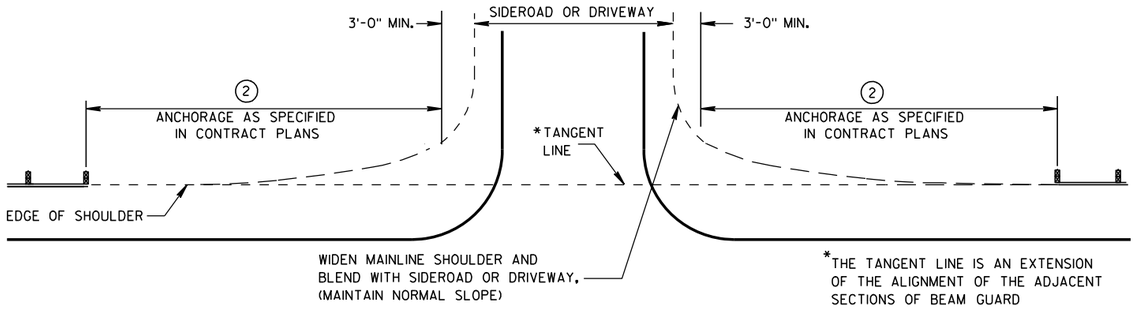
STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

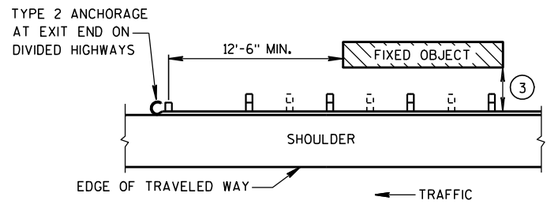
APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

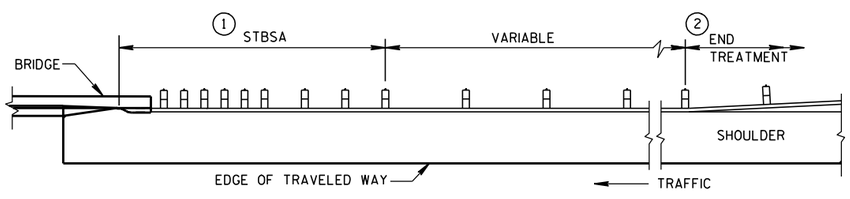
S.D.D. 14 B 15-8c



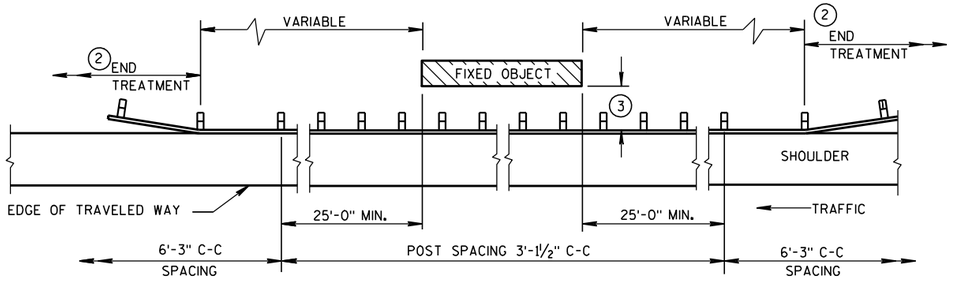
BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

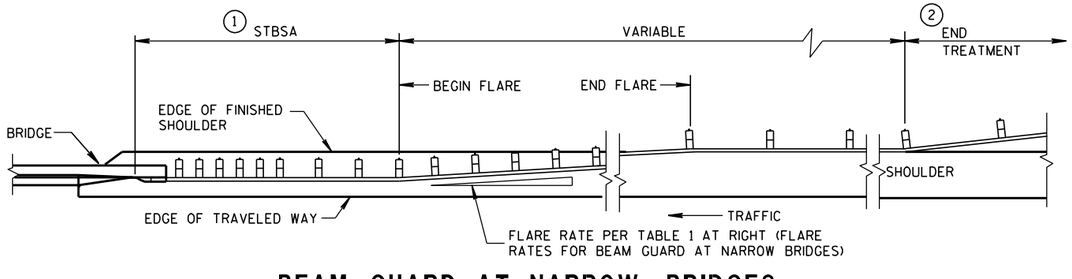


BEAM GUARD AT FULL WIDTH BRIDGES



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

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"

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

BILL OF MATERIALS

NOTE NO.	QTY.	DESCRIPTION
①	4	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
②	**	STEEL TUBE: OPTION 1 - QUANITY OF 4 TS 8" X 6" X 0.188", 4'-6" LONG OR OPTION 2 - QUANITY OF 2 TS 8" X 6" X 0.188", 6'-0" AND 2 TS 8" X 6" X 0.188", 4'-6" LONG
③	2	SOIL PLATE: 2'-0" X 1'-6" X ¼" **
④	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
⑤	6	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
⑥	1	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
⑦	1	BEARING PLATE
⑧	1	BCT CABLE ASSEMBLY
⑨	1	CABLE ANCHOR BOX
⑩	1	STRUT & YOKE
⑪	1	STEEL PLATE BEAM, END PANEL 12 GA. 13'-6½" LONG FOR SKT-350, ET-2000 AND ET-2000 PLUS
⑫	3	STEEL PLATE BEAM: 12 GA. 13'-6½"
⑬	1	ET-2000/ET-2000 PLUS GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
⑭	1	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
⑮	1	E.A.T. MARKER POST

GENERAL NOTES

FOLLOW MANUFACTURE'S BOLTING RECOMMENDATIONS. IF NONE ARE AVAILABLE, INSTALL ⅝" ø X 1'-6" BUTTON HEAD BOLTS AT ALL POSTS EXCEPT FOR POST 1.

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, 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) THE 13 SLOT FIRST RAIL PANEL MAY BE USED IN LIEU OF THE 3 SLOT RAIL PANEL ON SKT-350 ONLY.

(D) THE TOP OF THE STEEL TUBE ON POSTS 1 THROUGH 4 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(E) THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST 5 THROUGH 8 SHALL BE ¾" ABOVE THE FINISHED GROUND LINE.

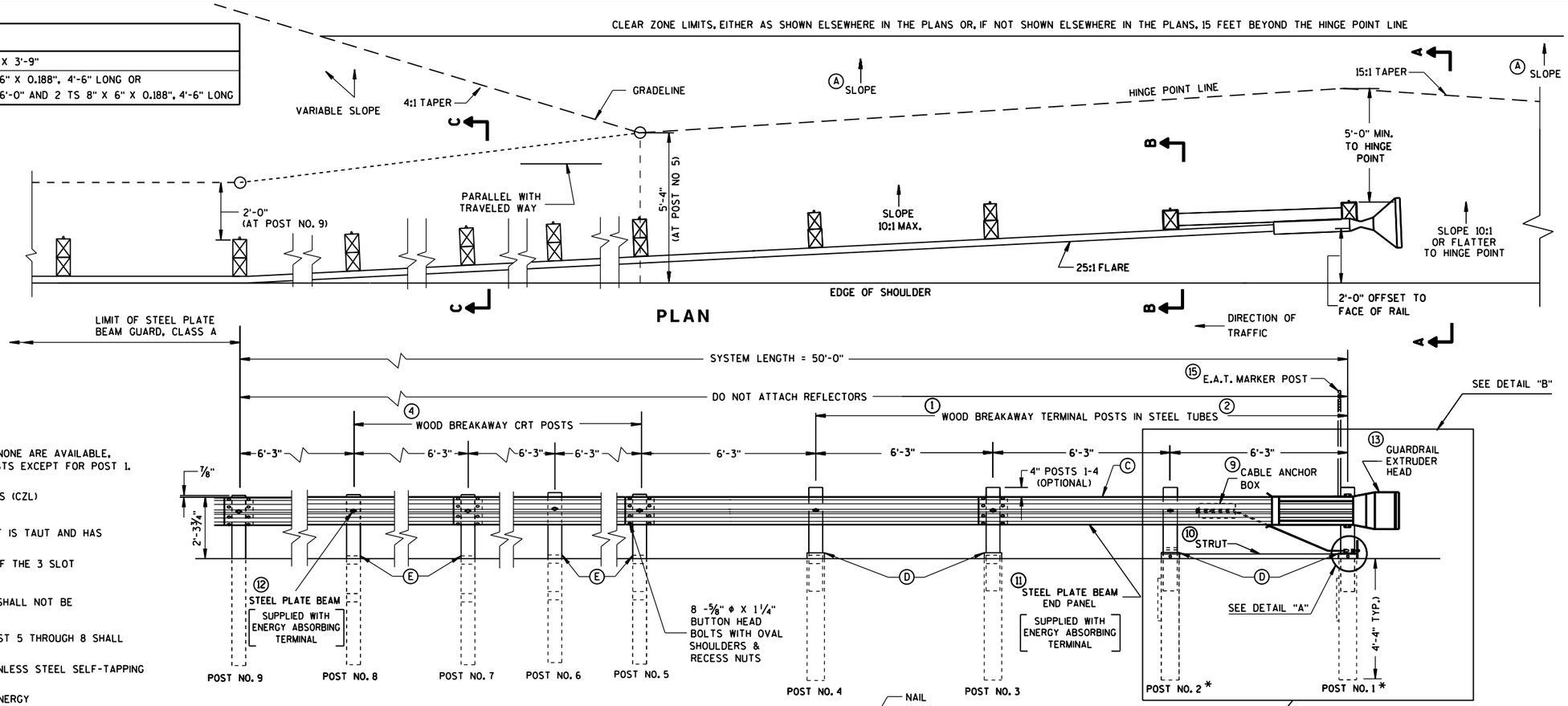
(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

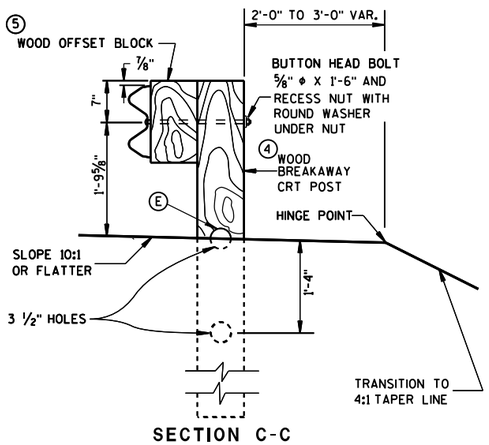
STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

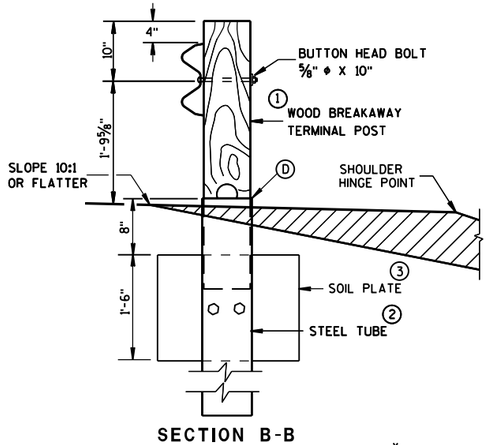
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

** SDD SHOWS 4 - 54 INCH STEEL TUBES WITH SOIL PLATES INSTALLED ON POST 1 AND POST 2. POST 3 AND 4 DO NOT NEED SOIL PLATES. AN ALTERNATIVE INSTALLATION WOULD CONSIST OF 2 - 72 INCH STEEL TUBES ON POST 1 AND POST 2 AND 54 INCH SOIL TUBES ON POSTS 3 AND 4. THE ALTERNATIVE INSTALLATION DOES NOT REQUIRE SOIL PLATES.

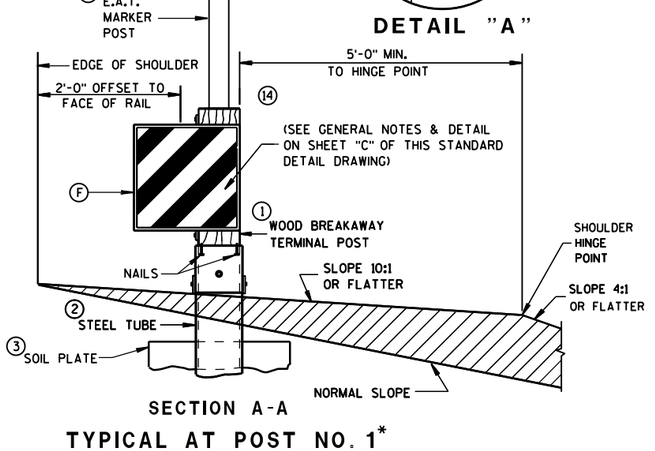




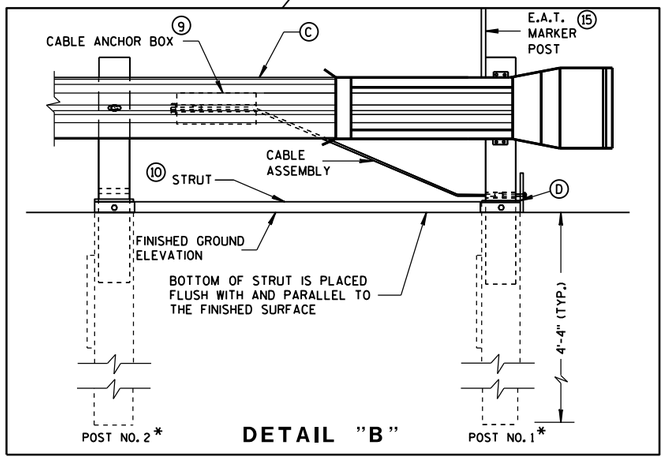
SECTION C-C
TYPICAL AT POST NOS. 6, 8



SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*

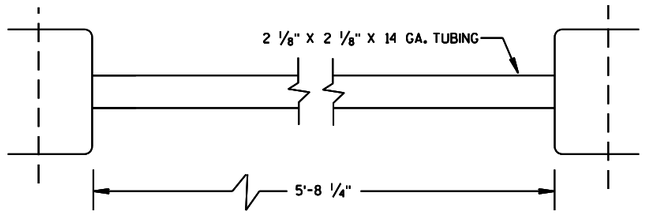


STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

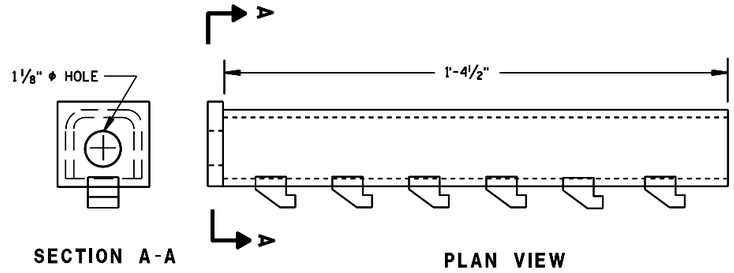
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO 407

S.D.D. 14 B 24-8a

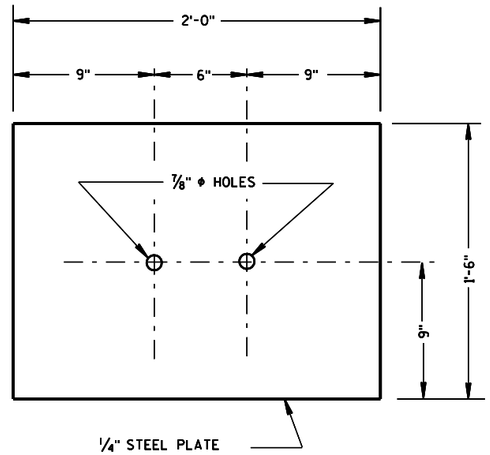
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⑩ STRUT DETAIL (SKT-350)

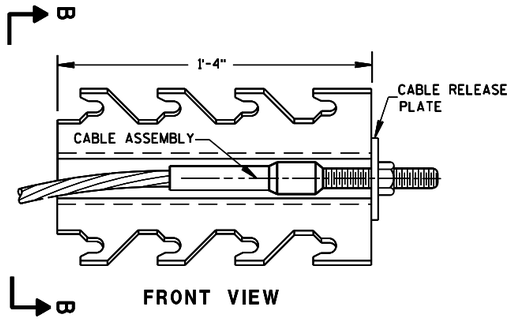


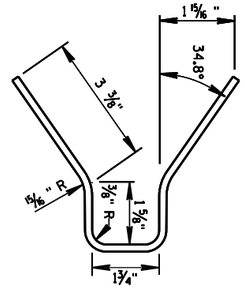
⑨ CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



③ SOIL PLATE

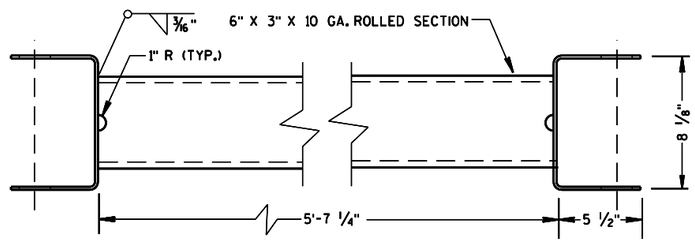
(SKT-350, ET-2000/ET-2000 PLUS)





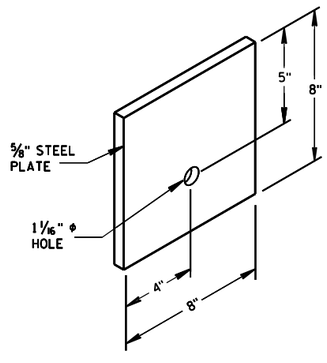
⑨ CABLE ANCHOR BOX (SKT-350)

(SKT-350)



⑩ STRUT DETAIL (ET-2000/ET-2000 PLUS)

(ET-2000/ET-2000 PLUS)



⑦ STEEL BEARING PLATE

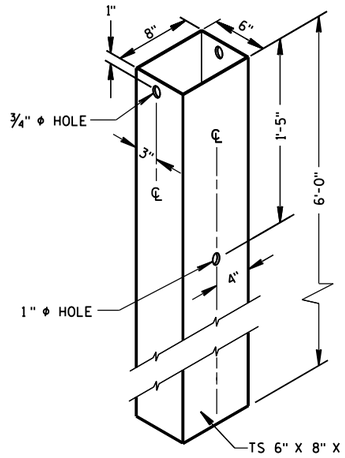
(SKT-350, ET-2000/ET-2000 PLUS)

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

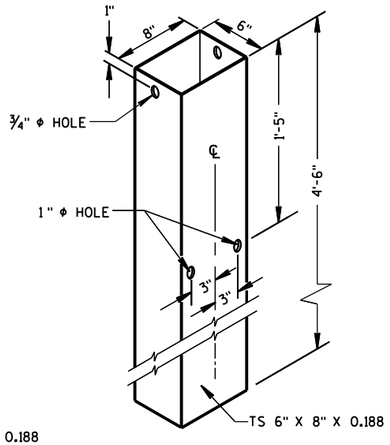
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

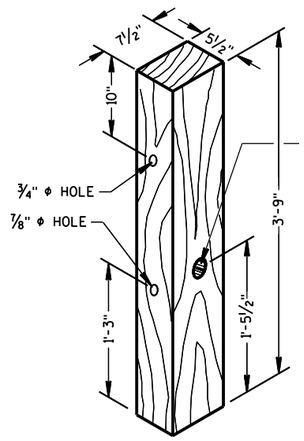
S.D.D. 14 B 24-8b



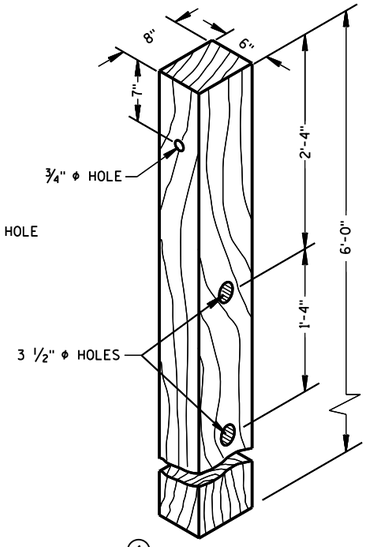
② 72" STEEL TUBE
(POSTS NO. 1-4



② 54" STEEL TUBE
(POSTS NO. 1-4



① TERMINAL POST
(POSTS NO. 1-4



④ CRT POST
(POSTS NO'S 5-8

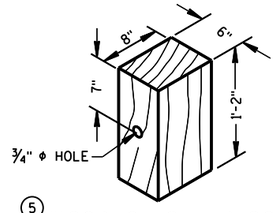
WOOD BREAKAWAY POSTS

GENERAL NOTES

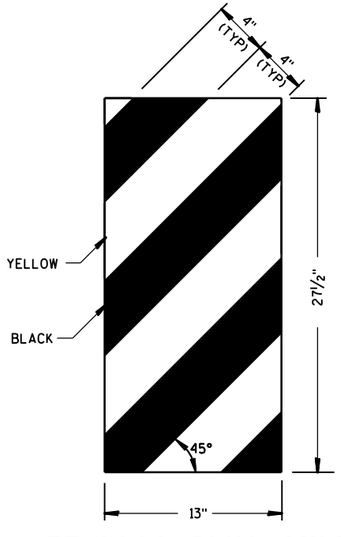
WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 ½" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

SEE APPROVED PRODUCTS LIST FOR ACCEPTABLE E. A. T. MARKER POST.

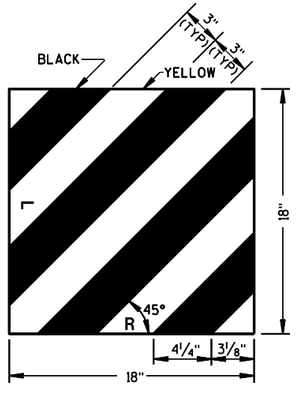
(G) ½" DIA. X 3" LAG BOLT WITH WASHER.



⑤ WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

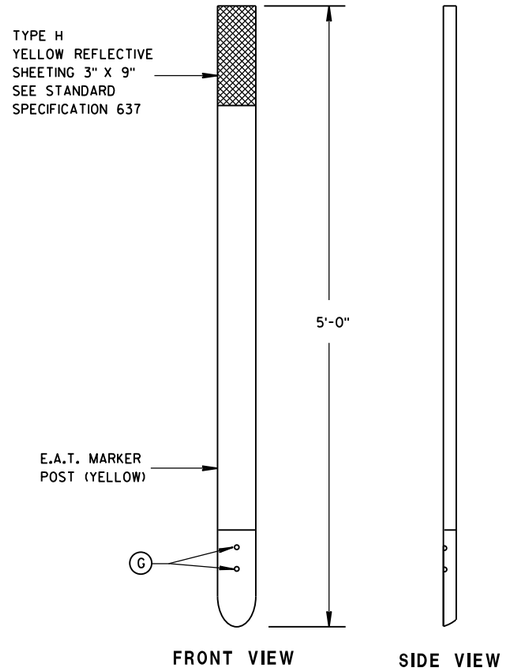


ET-2000 PLUS ONLY

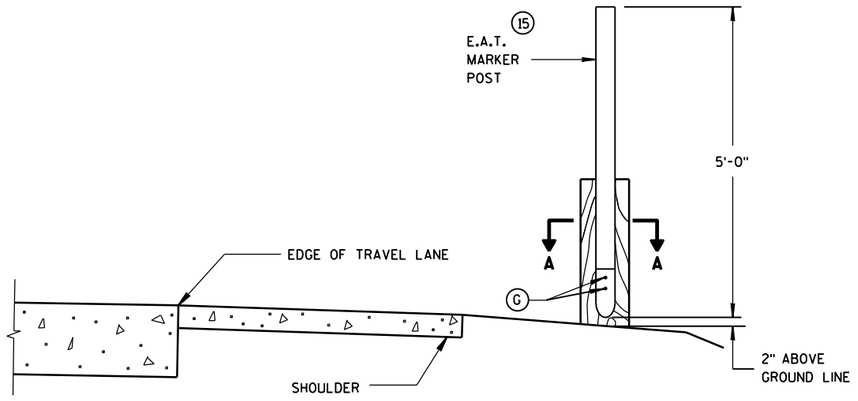


ET-2000 AND SKT-350

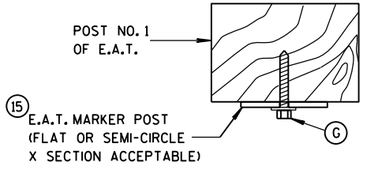
⑭ REFLECTIVE SHEETING DETAILS



⑮ E.A.T. MARKER POST



TYPICAL INSTALLATION OF E.A.T.
MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

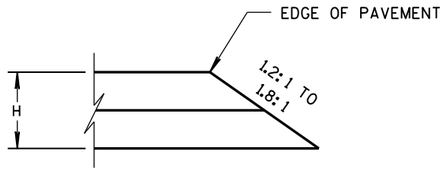
APPROVED
June 2014
DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 24-8c

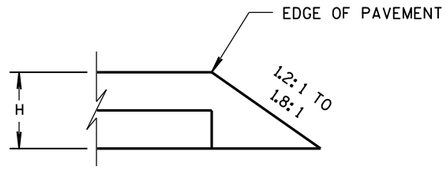
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S.D.D. 14 B 24-8c



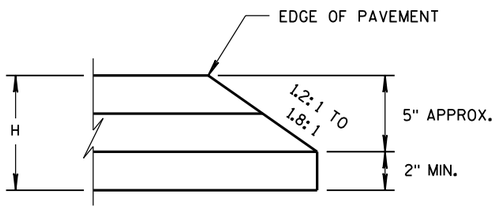
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



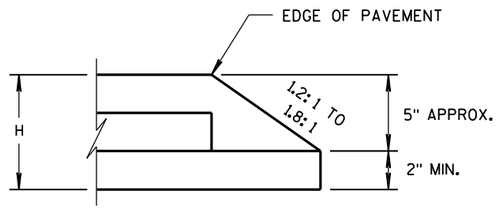
CONSTRUCTED WITH FINAL LAYER

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL TWO LAYERS

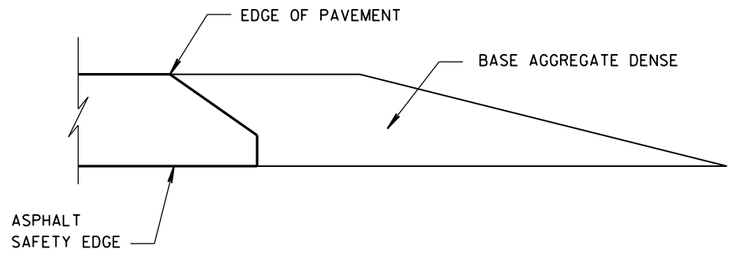
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE SM

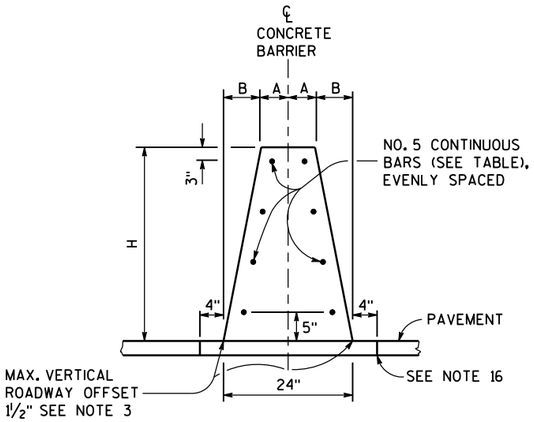
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

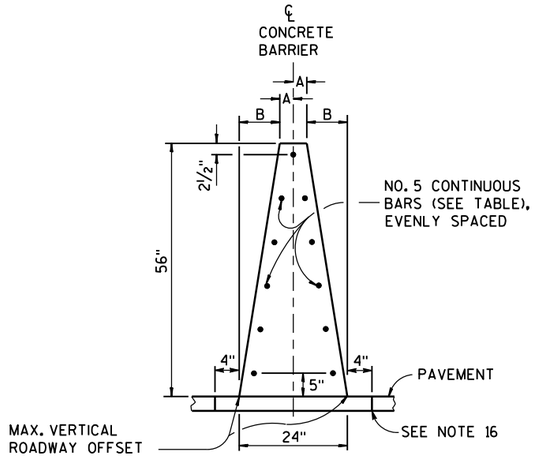
11/30/2012
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

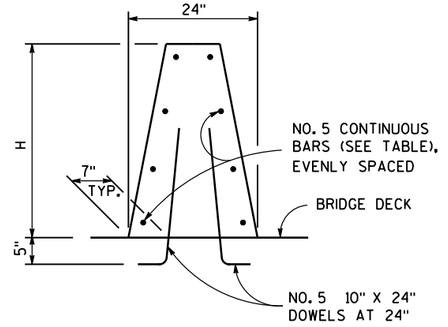
FHWA



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)



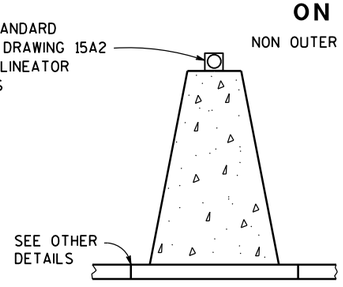
SINGLE SLOPE CONCRETE BARRIER ON BRIDGE

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, 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.
16. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.

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



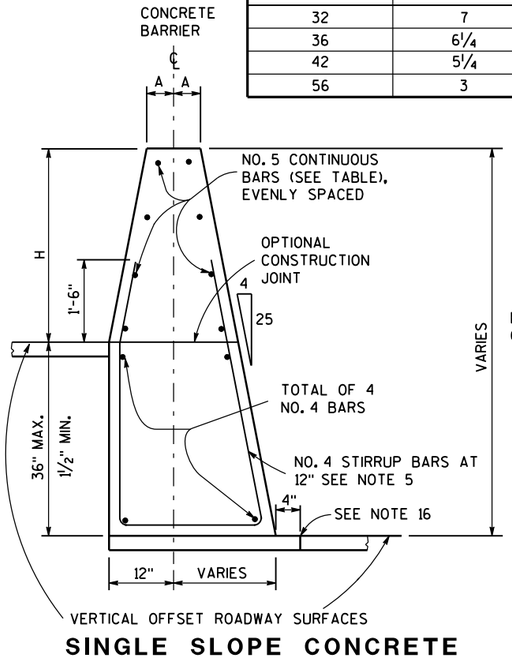
DELINEATION

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

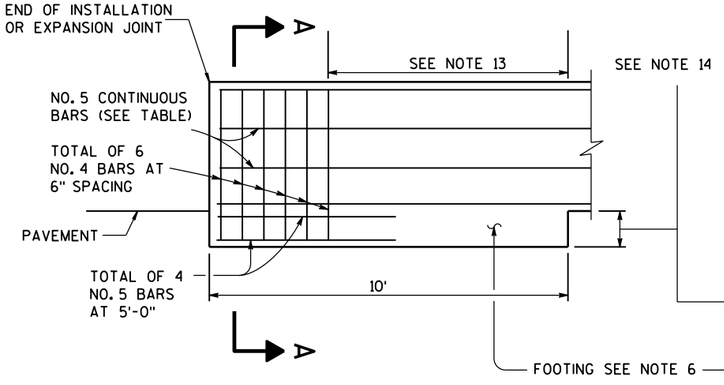
DELINEATOR SPACING ON RADIUS GREATER THAN 1000 FEET OR TANGENT SECTIONS

	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	



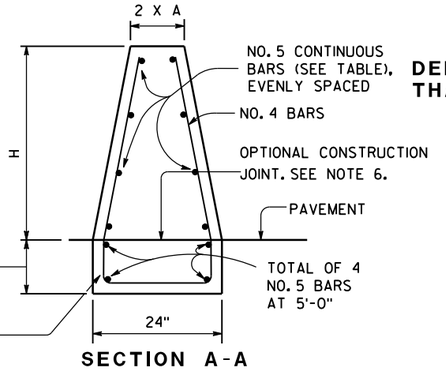
SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL (TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)

(BETWEEN ADJACENT ROADWAYS)



END ANCHOR SINGLE SLOPE CONCRETE BARRIER

AT CONSTRUCTION JOINT



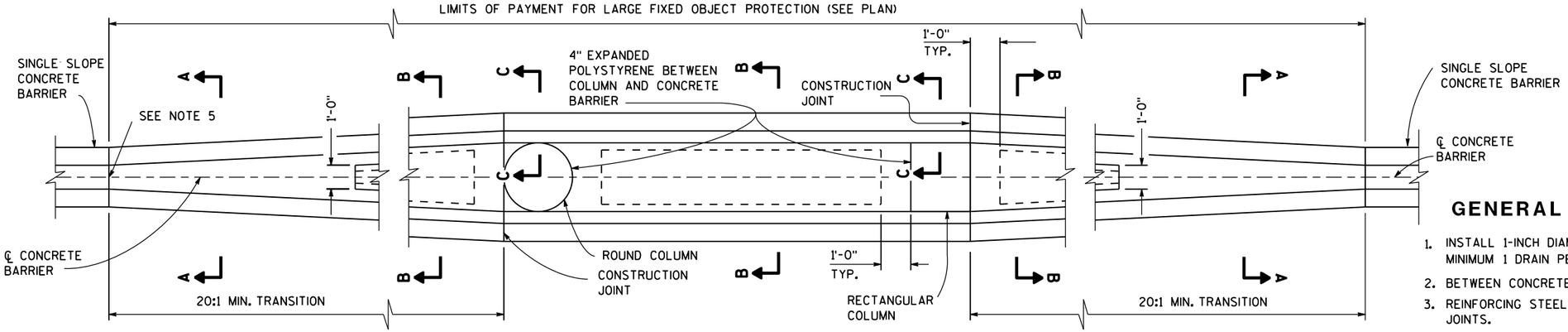
SECTION A-A

CONCRETE BARRIER SINGLE SLOPE (CBSS)

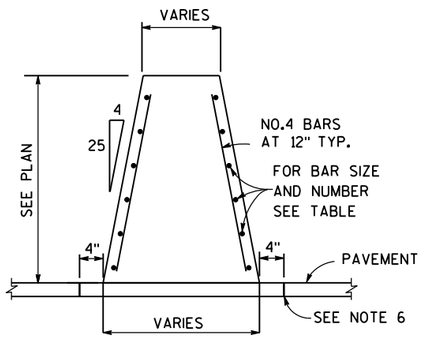
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

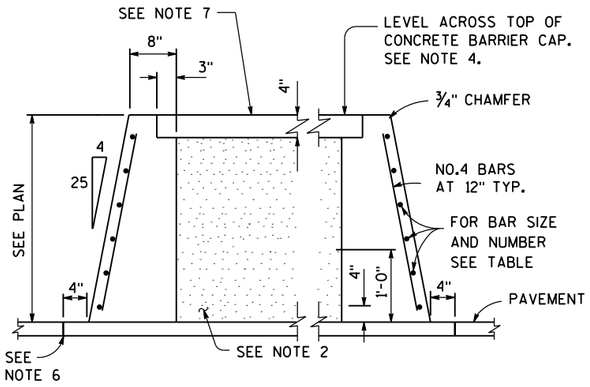
S.D.D. 14 B 32-3a



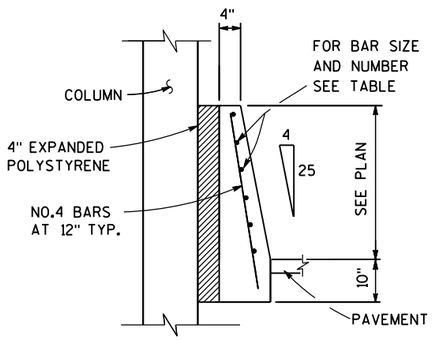
LARGE FIXED OBJECTS PROTECTION
TYPE S32, TYPE S36, TYPE S42, TYPE S56



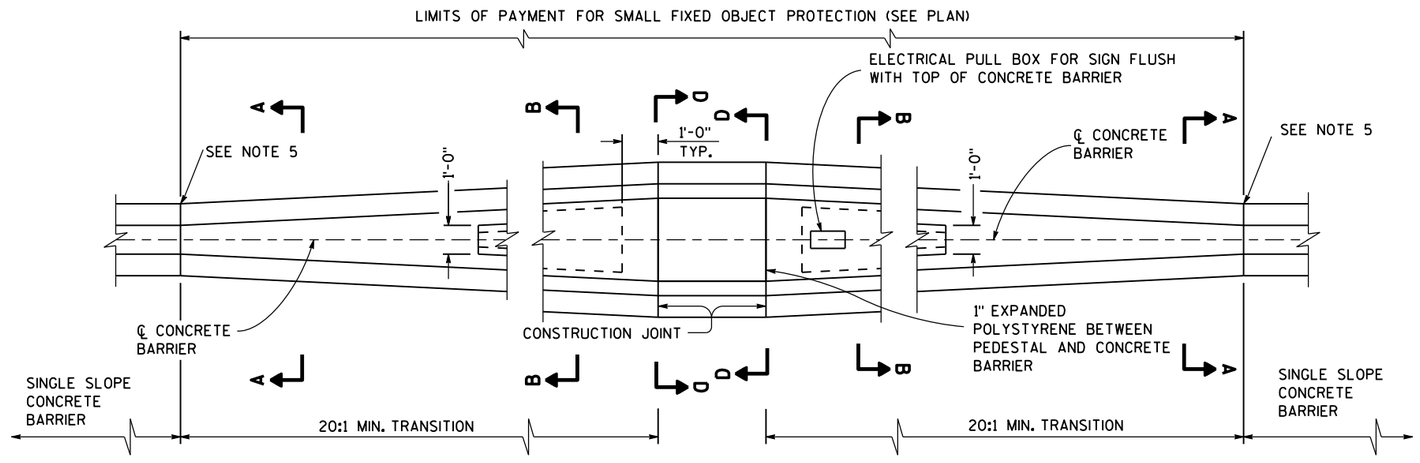
SECTION A-A



SECTION B-B



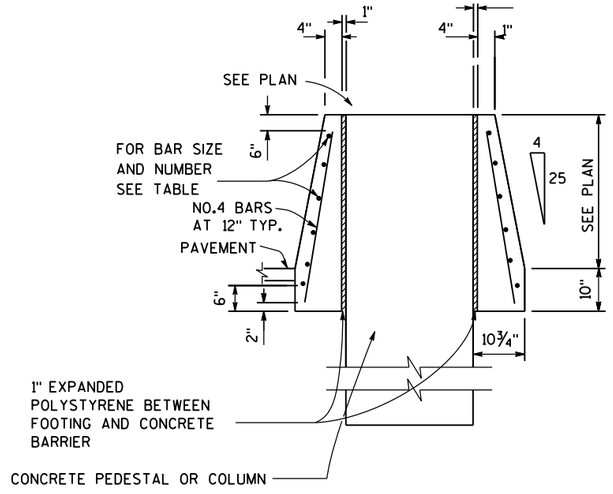
SECTION C-C



SMALL FIXED OBJECTS PROTECTION
TYPE S32, TYPE S36, TYPE S42, TYPE S56

GENERAL NOTES

1. INSTALL 1-INCH DIAMETER DRAIN PIPE EVERY 20 FEET 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.
6. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
7. USE NO. 3 BAR SPACED 12 INCHES CENTER TO CENTER (PLACED IN EACH DIRECTION) OR EQUIVALENT WIRE MESH.



SECTION D-D

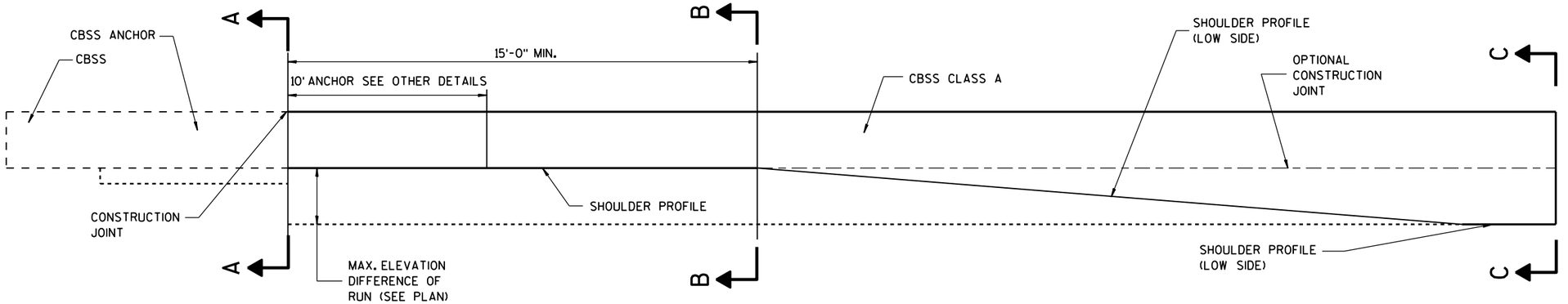
BARRIER HEIGHT H INCHES	BAR SIZE	NUMBER OF BARS EACH
32	4	6
36	4	6
42	5	6
56	5	9

CONCRETE BARRIER SINGLE SLOPE (CBSS)

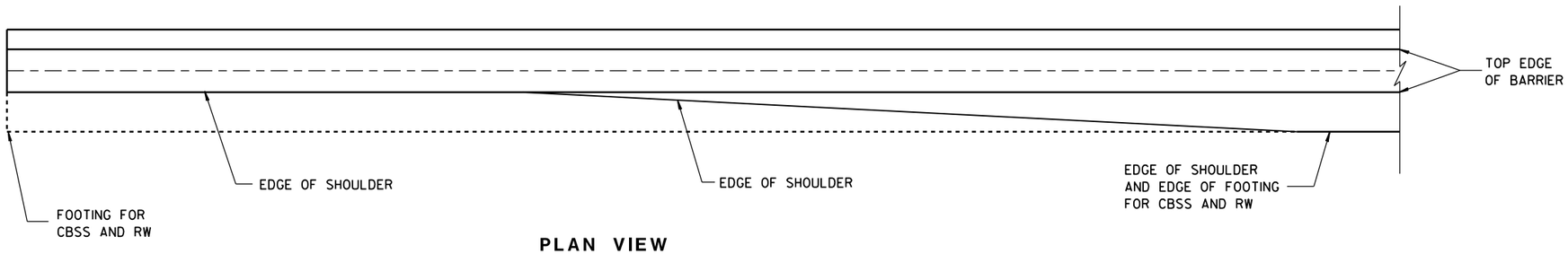
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

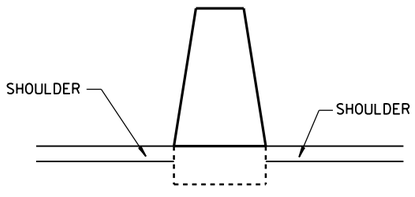
S.D.D. 14 B 32-3b



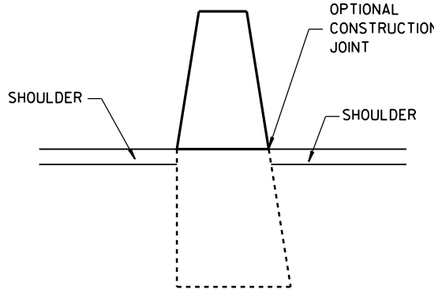
ELEVATION VIEW
TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)



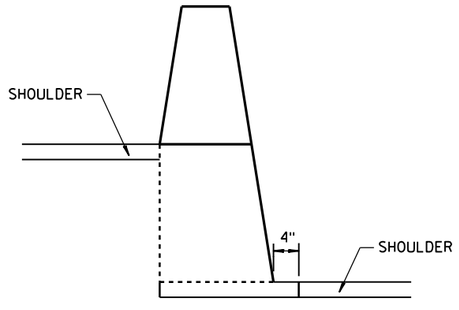
PLAN VIEW
TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)



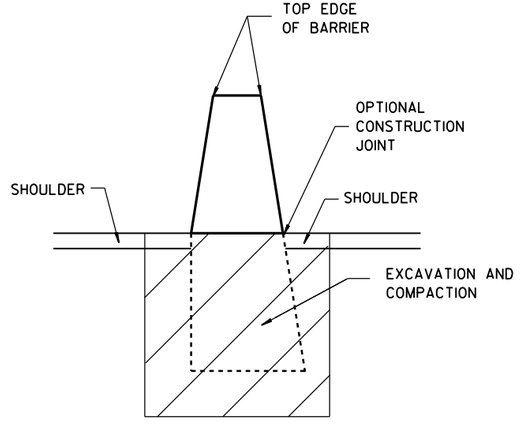
SECTION A-A



SECTION B-B



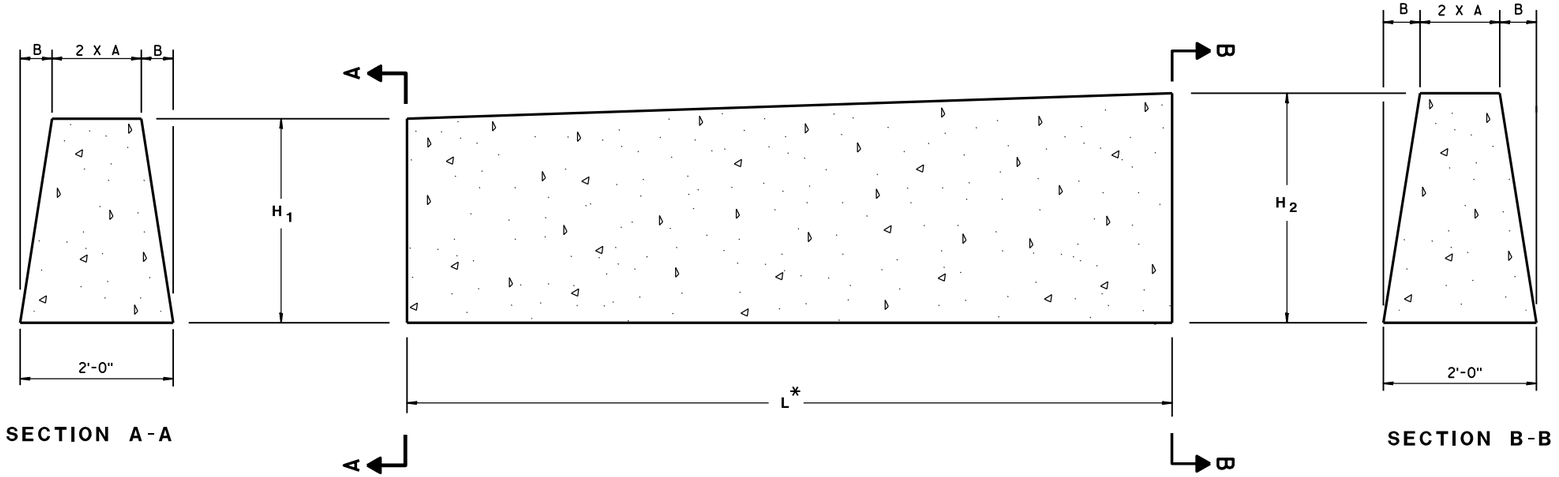
SECTION C-C



CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 32-3c



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

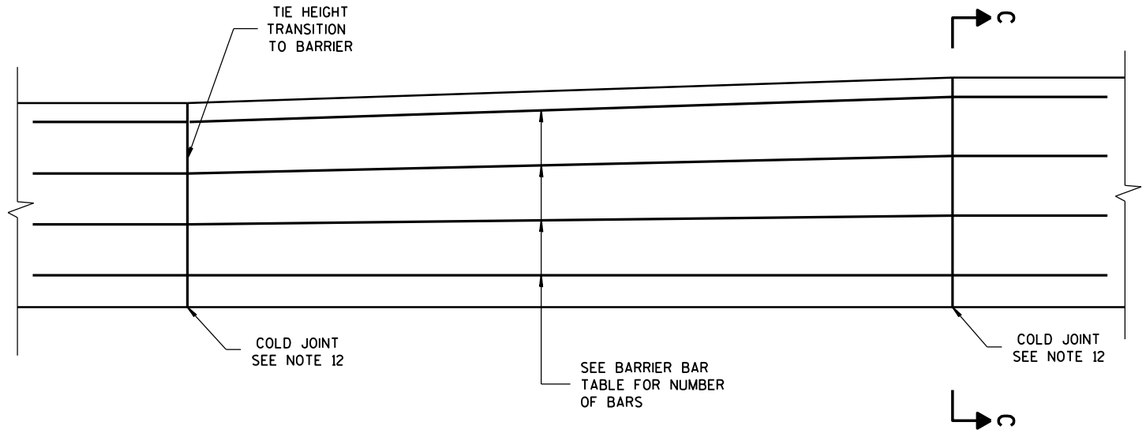
MULTIPLE HEIGHT TRANSITIONS MAY BE USED IN SEQUENCE TO GET TO APPROPRIATE HEIGHT.

USE COLD JOINT TO CONNECT MULTIPLE HEIGHT TRANSITIONS.

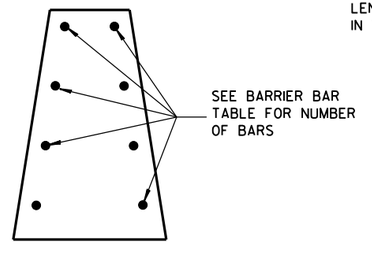
BARRIER BARS

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

June 2014 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

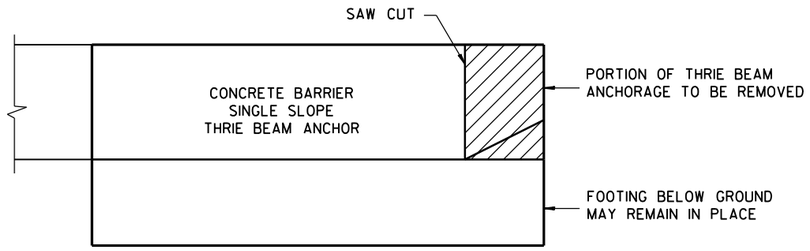
FHWA

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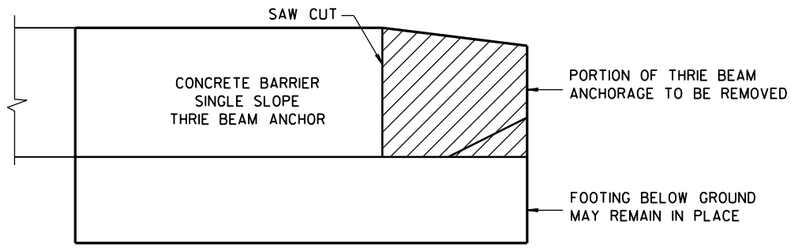
S.D.D. 14 B 32-3d

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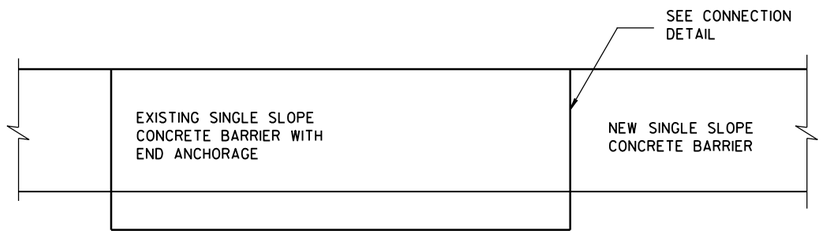
S.D.D. 14 B 32-3d



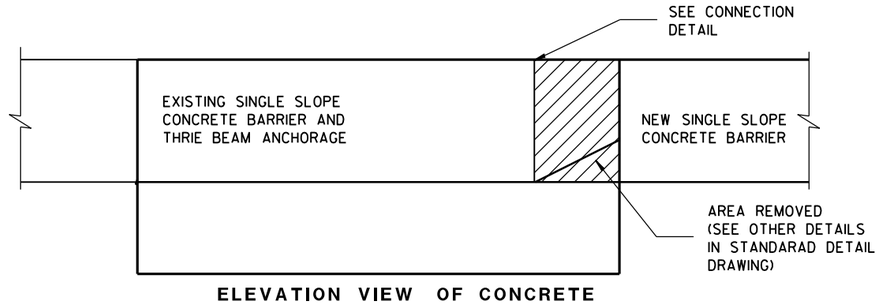
REMOVAL AREA OF
32" CONCRETE THRIE BEAM ANCHORAGE



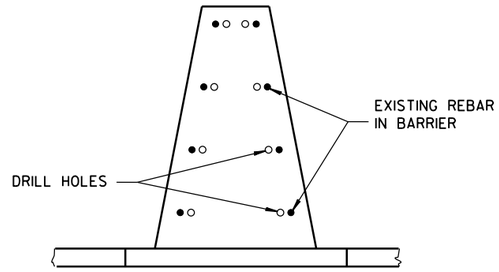
REMOVAL AREA OF CONCRETE THRIE BEAM
ANCHORAGE WITH HEIGHT GREATER THAN 32"



ELEVATION VIEW OF CONCRETE
BARRIER EXTENSION NEAR END ANCHORAGE



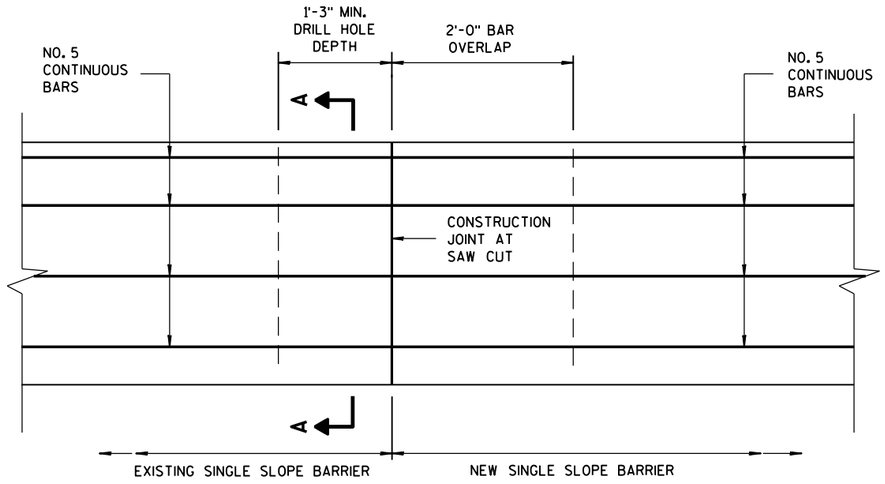
ELEVATION VIEW OF CONCRETE
BARRIER EXTENSION NEAR THRIE BEAM TERMINAL



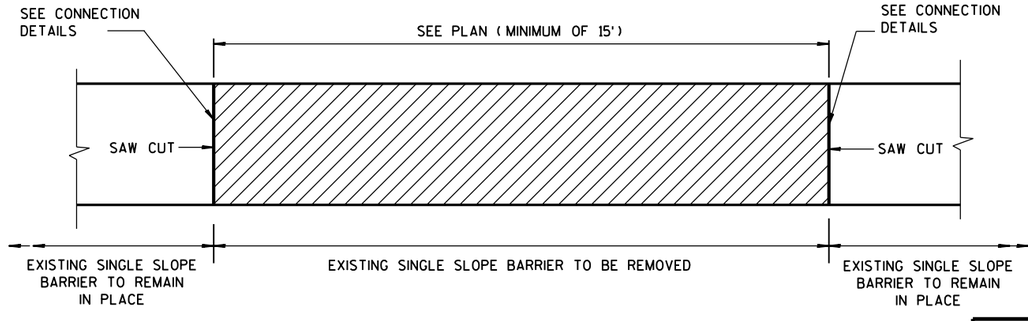
SECTION A-A

GENERAL NOTES

1. THE NUMBER OF DRILL HOLES IS EQUAL TO THE NUMBER OF REBAR IN BARRIER (SEE OTHER DETAILS).
2. MINIMUM DEPTH OF DRILL HOLES IS 1'-3".
3. DRILL HOLES TO BE A MINIMUM OF 4 INCHES FROM THE EDGE OF CONCRETE.
4. INSTALL EPOXY COATED NO. 5 BARS IN DRILL HOLES.
5. END ANCHORAGE MAY OR MAY NOT BE PRESENT ON EXISTING BARRIER.
6. REMOVE THRIE BEAM ANCHORAGE AS SHOWN.



CONNECTION OF EXISTING SINGLE SLOPE CONCRETE BARRIER TO
NEW SINGLE SLOPE CONCRETE BARRIER



ELEVATION FILE
BARRIER REMOVAL AND REPLACEMENT

CONCRETE BARRIER
SINGLE SLOPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

RETROFIT OR REPAIR SINGLE SLOPE CONCRETE BARRIER

6

S.D.D. 14 B 32-3e

6

S.D.D. 14 B 32-3e

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.

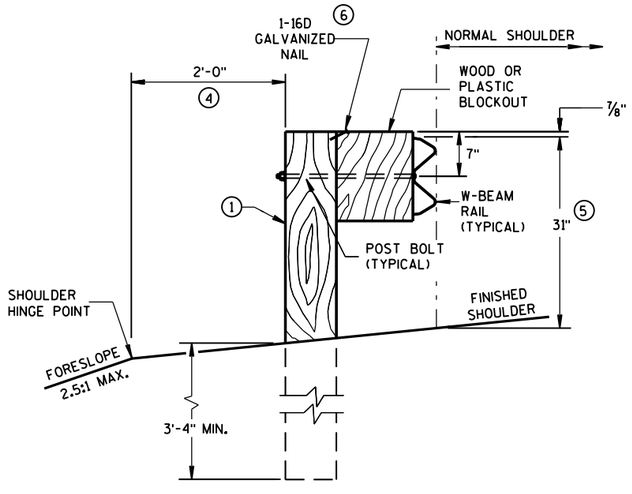
2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES 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).

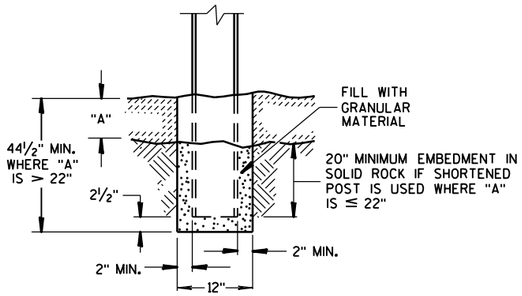
5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

6. WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



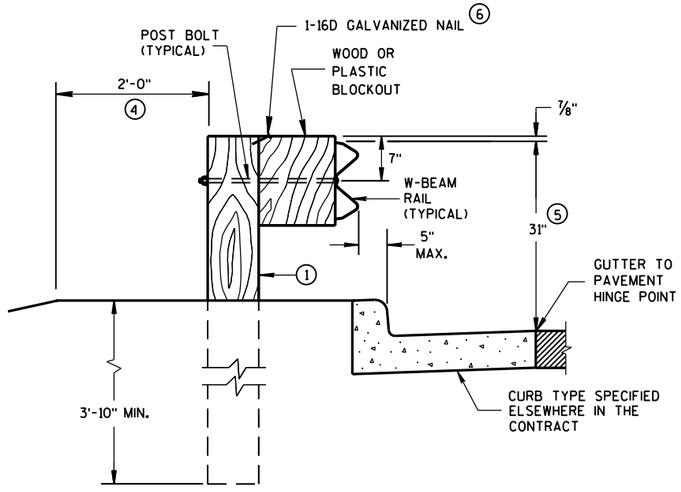
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



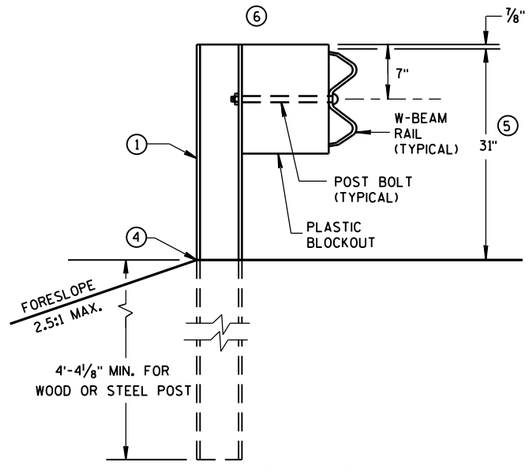
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



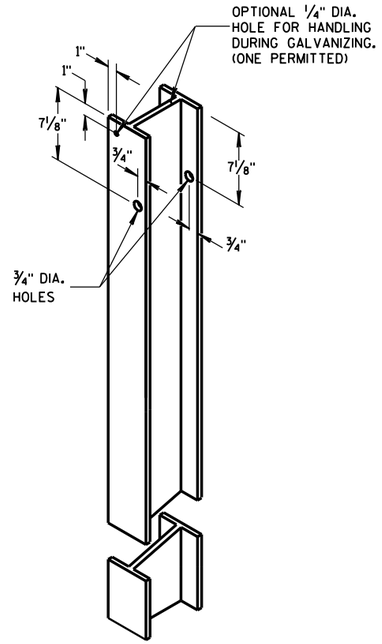
END VIEW

LOCATED ALONG A CURBED ROADWAY

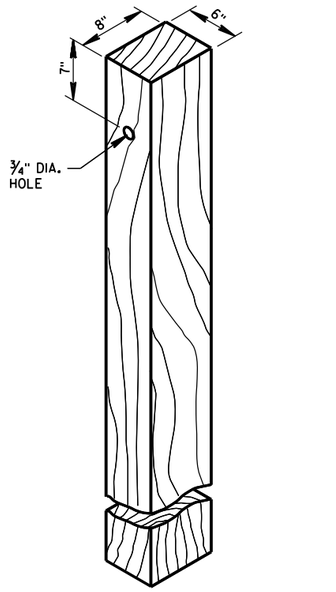


END VIEW

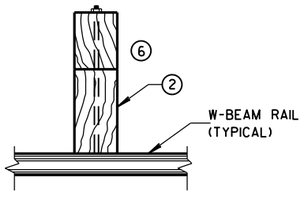
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



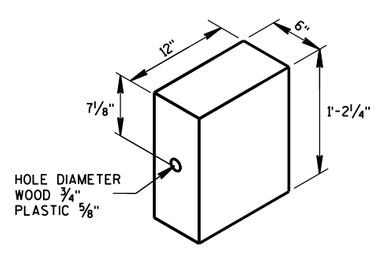
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



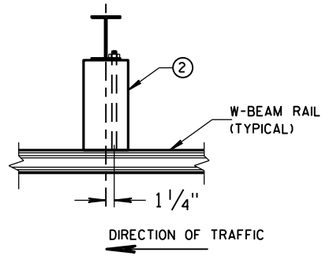
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

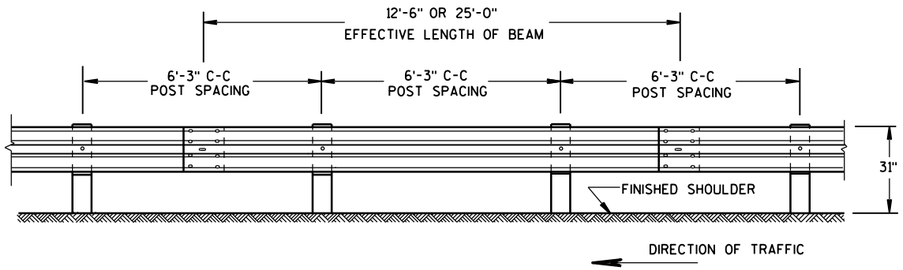


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

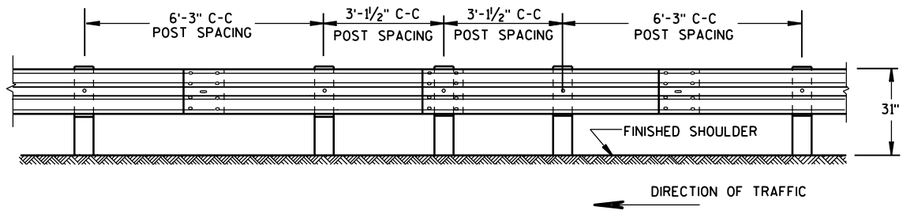
STATE OF WISCONSIN
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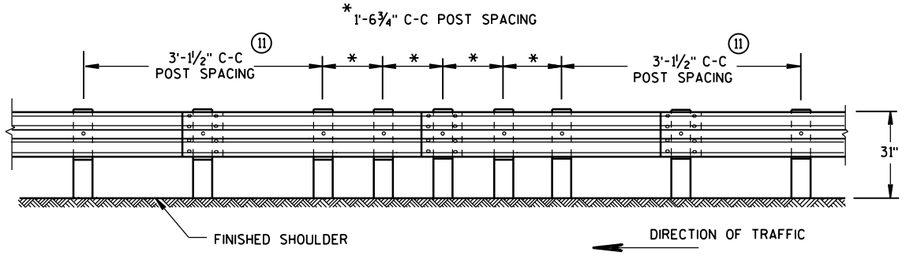
FRONT VIEW

POST SPACING STANDARD INSTALLATION



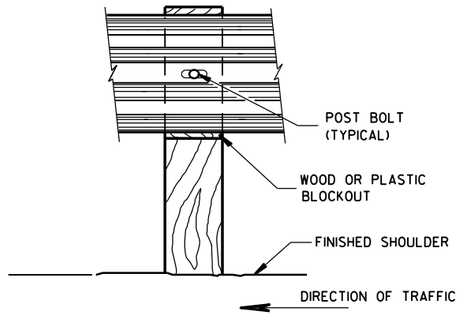
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

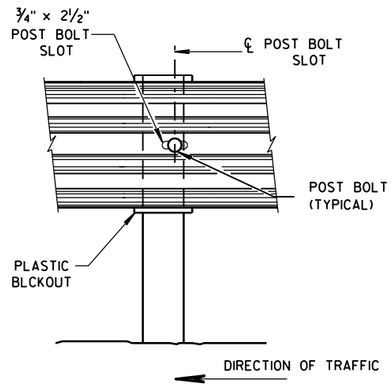


FRONT VIEW

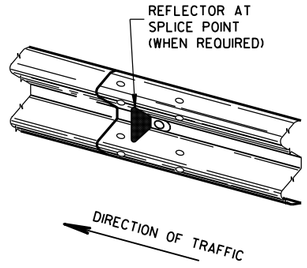
QUARTER POST SPACING (QS)

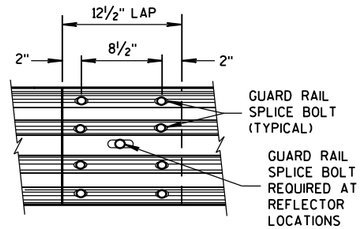


FRONT VIEW AT WOOD POST



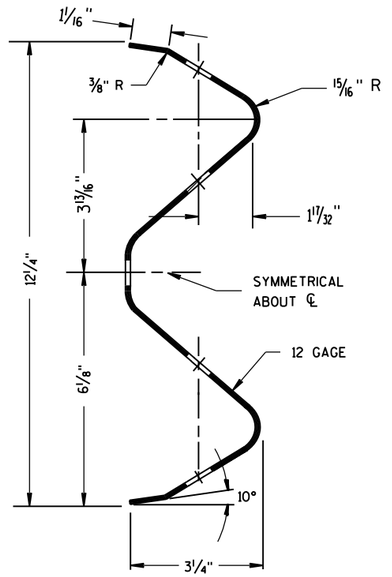
FRONT VIEW AT STEEL POST



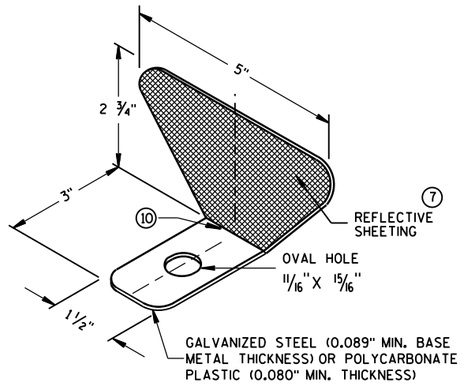


FRONT VIEW

MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ⑦

GENERAL NOTES

⑦ PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

⑧ 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.

⑨ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

⑩ PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

⑪ 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 ⑧

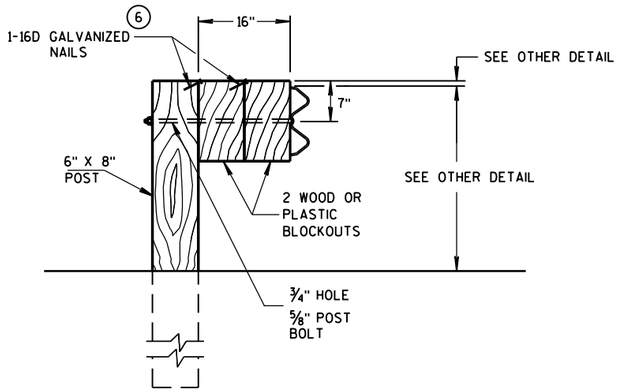
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 ⑨	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 ⑩	

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

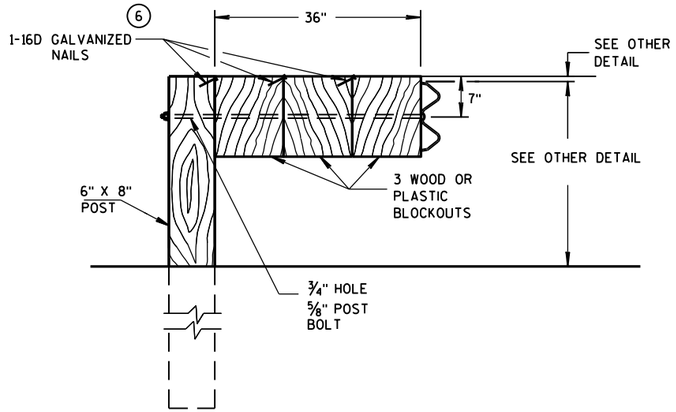
6

S.D.D. 14 B 42-3b



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.

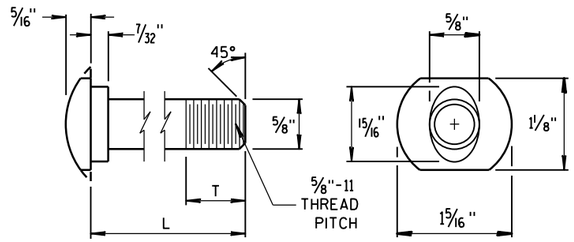


DETAIL FOR 36" BLOCKOUT DEPTH

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.

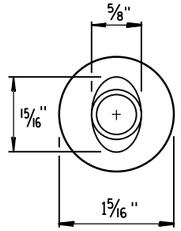
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

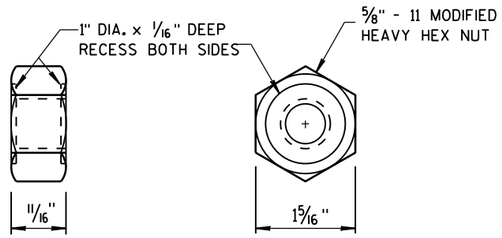


POST BOLT TABLE

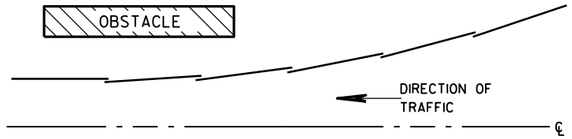
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

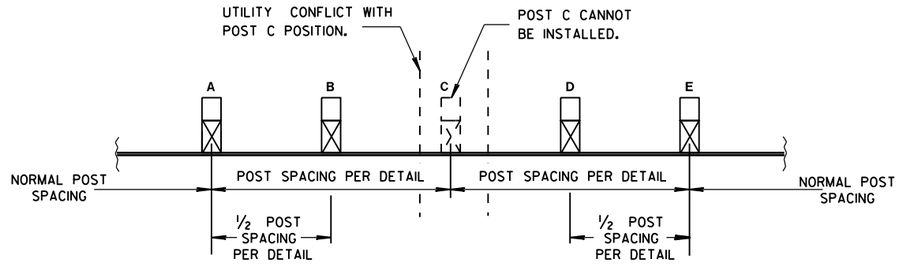


POST BOLT AND RECESS NUT

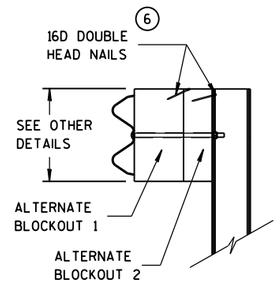


PLAN VIEW

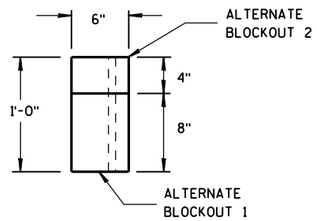
BEAM LAPPING DETAIL



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
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 42-3c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, 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) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(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.

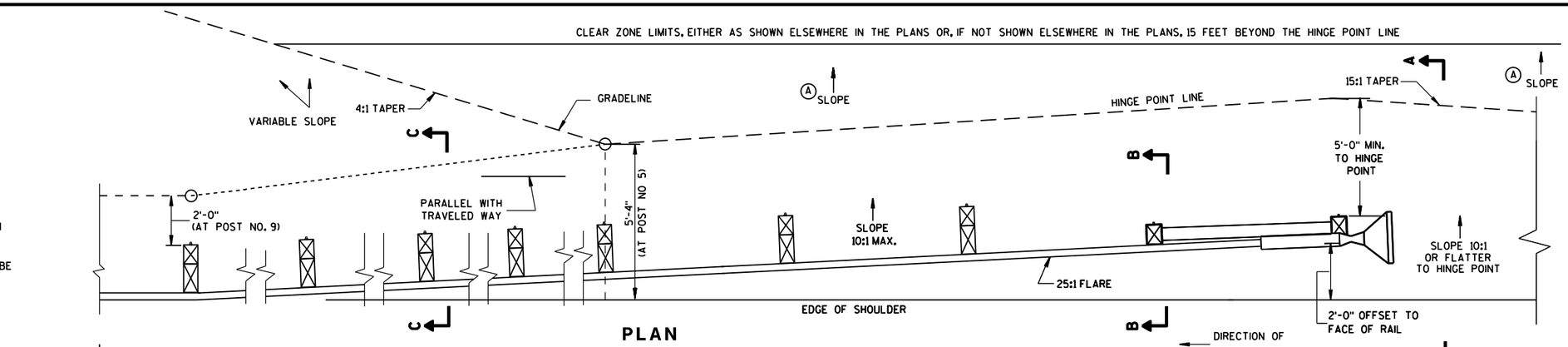
SEE SDD 14B42 FOR MORE INFORMATION.

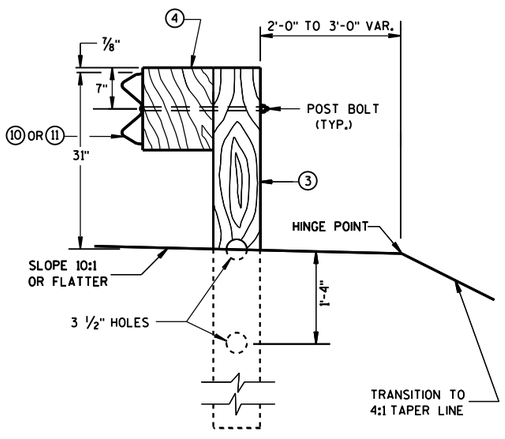
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

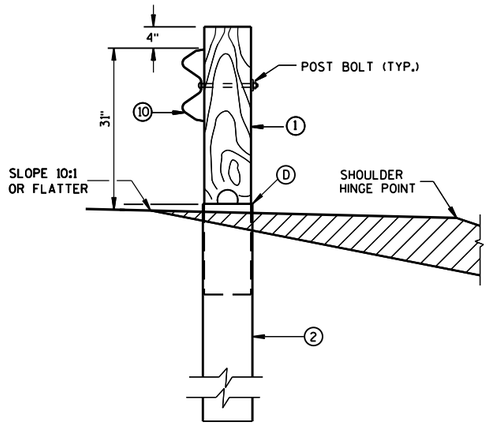
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

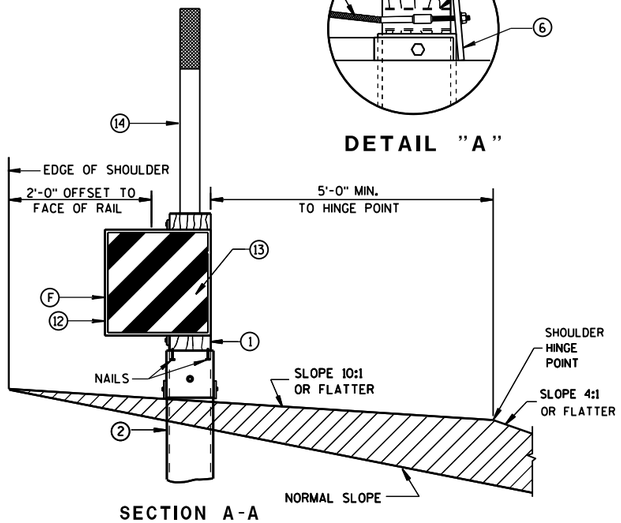




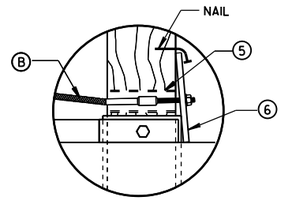
SECTION C-C
TYPICAL AT POST NOS. 3-9



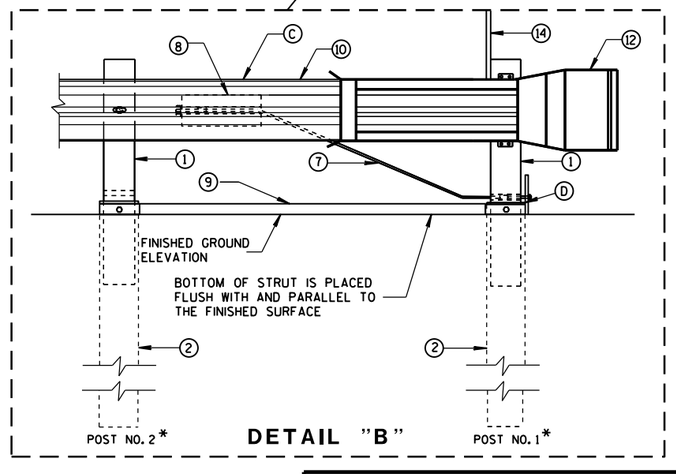
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"

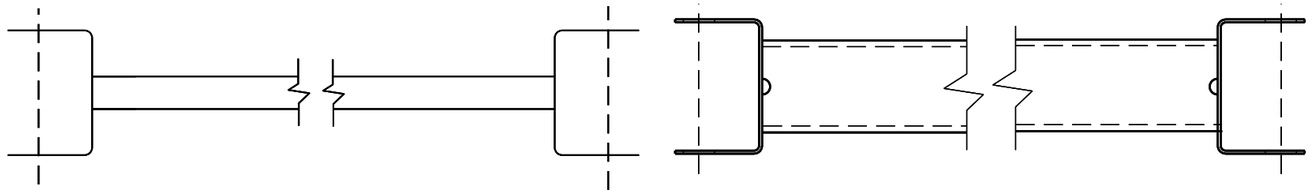


DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

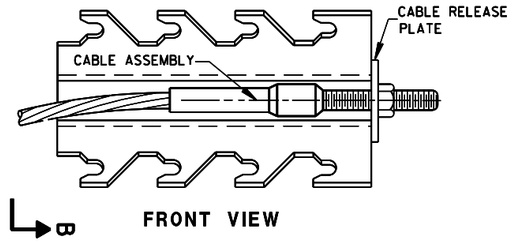
S.D.D. 14 B 44-2a



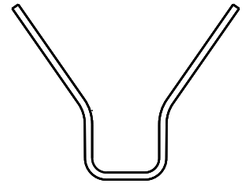
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

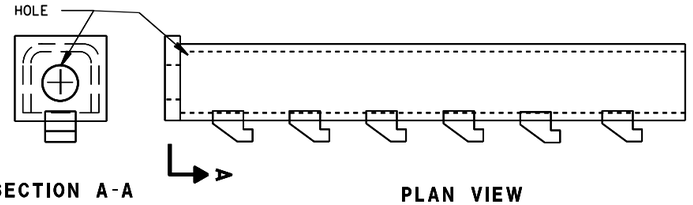
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR 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 F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



FRONT VIEW



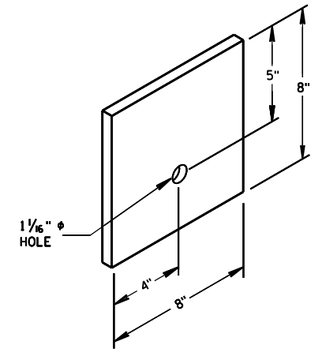
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)



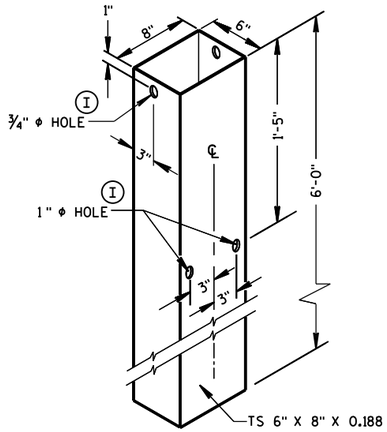
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

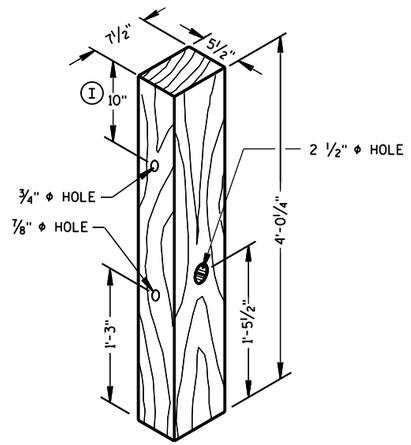
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 44-2b

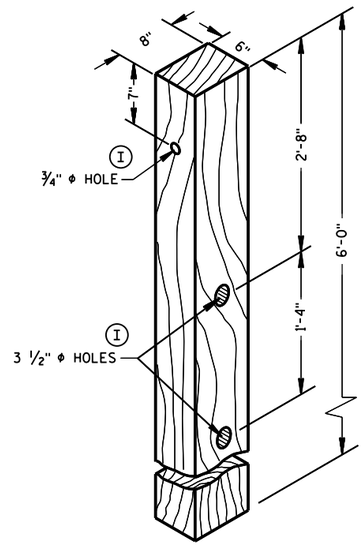


FOUNDATION TUBE (2)



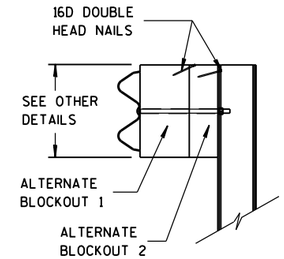
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

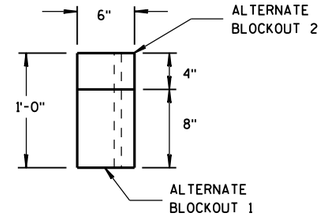


POSTS NUMBER 3-9

WOOD CRT POST (3)

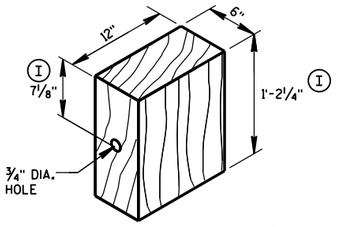


SIDE VIEW



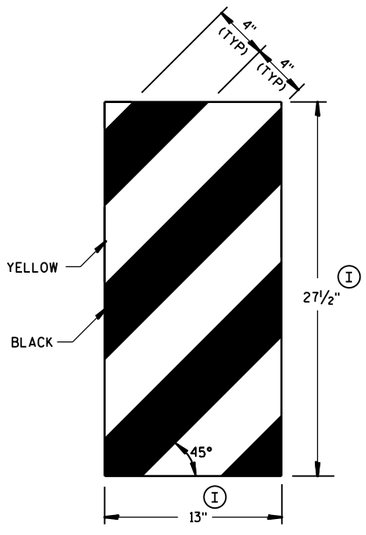
TOP VIEW

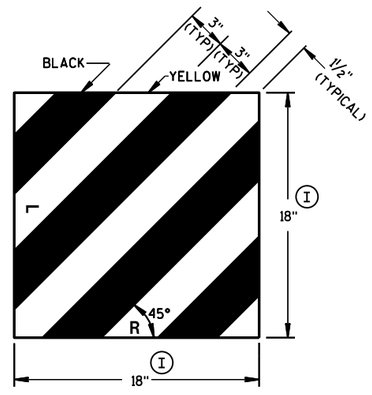
ALTERNATE WOOD BLOCKOUT DETAIL



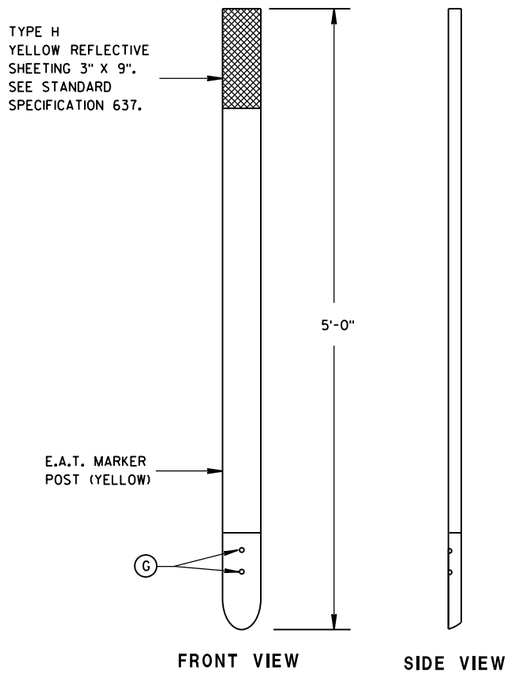
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





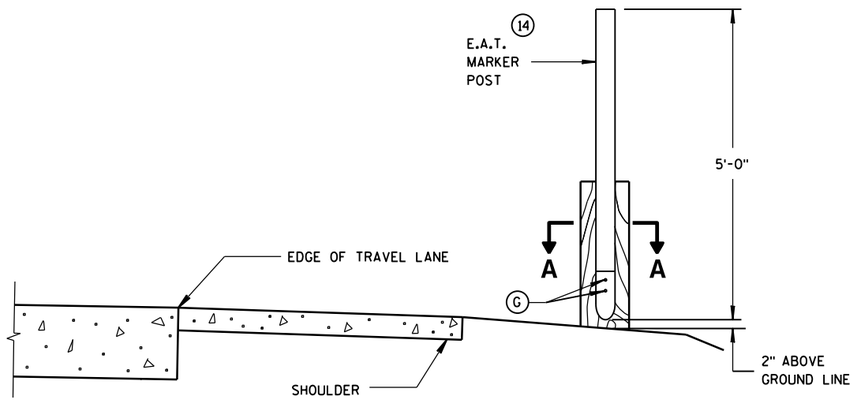
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

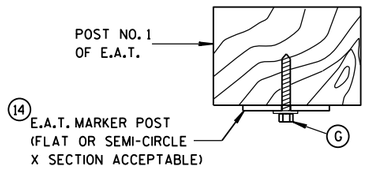
SIDE VIEW

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

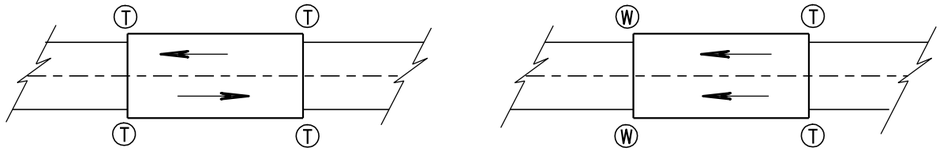
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 44-2c



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

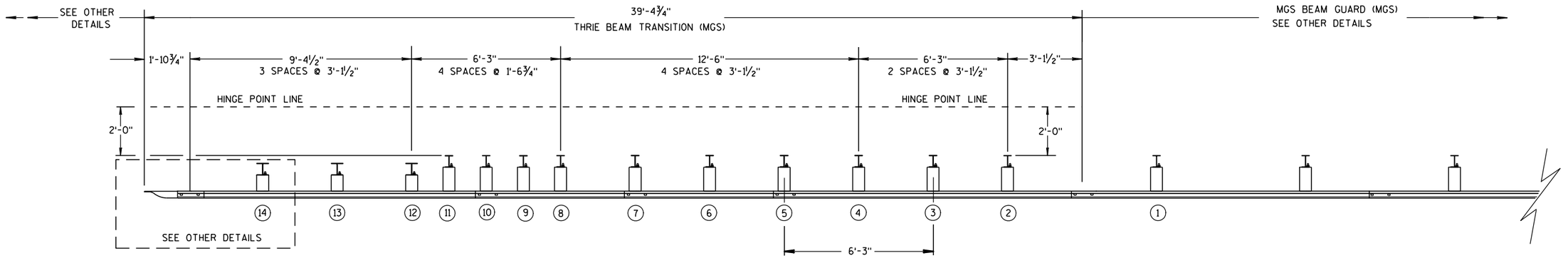
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

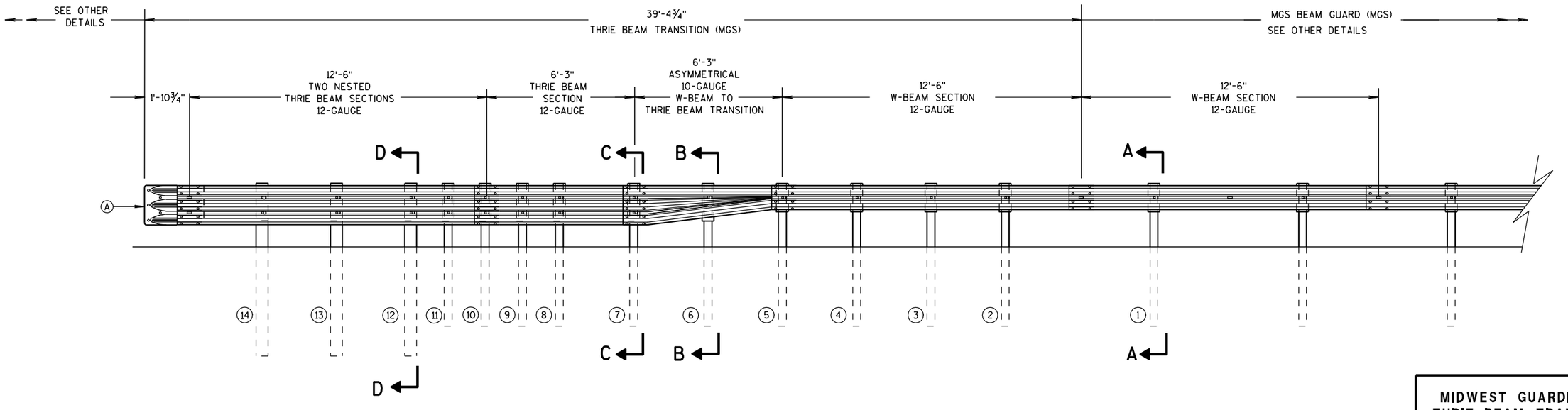
TRANSITION USES STEEL POSTS ONLY.

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 TRANSPORTATION

6

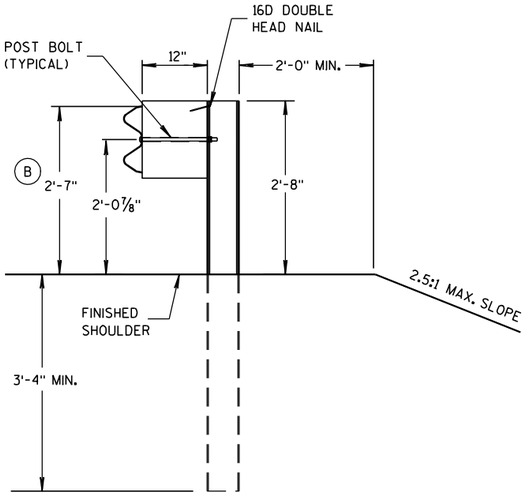
S.D.D. 14 B 45-3a

6

S.D.D. 14 B 45-3a

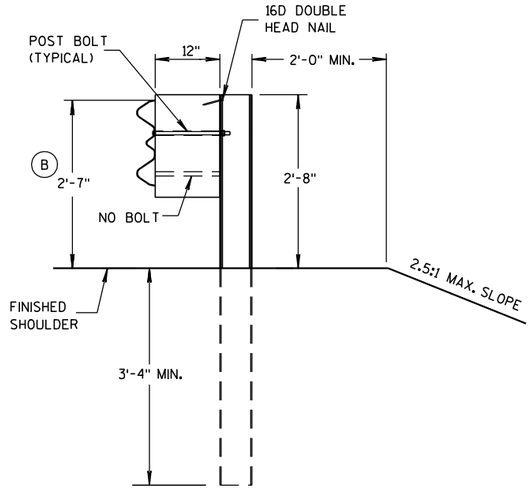
GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



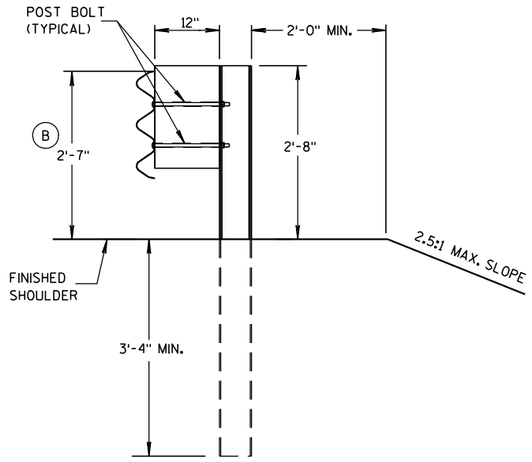
SECTION A-A

POSTS 1-5



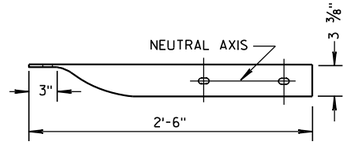
SECTION B-B

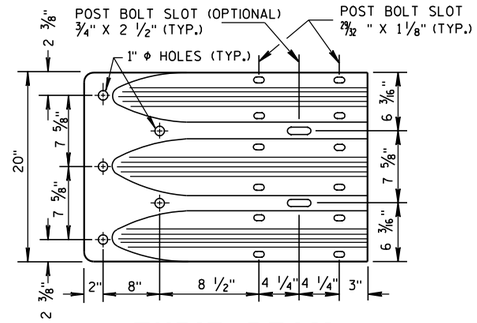
POST 6



SECTION C-C

POSTS 7-11





THRIE BEAM TERMINAL CONNECTOR

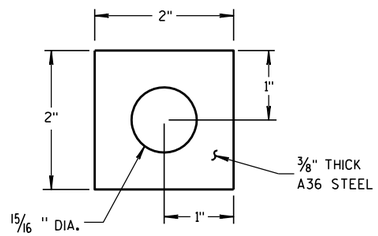
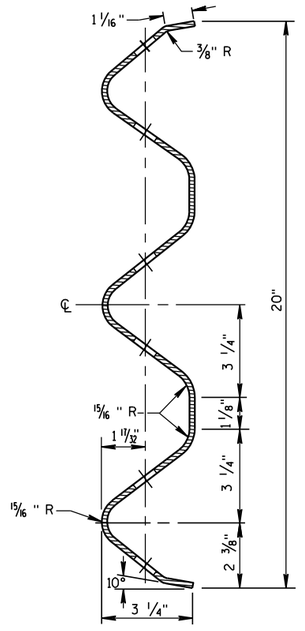
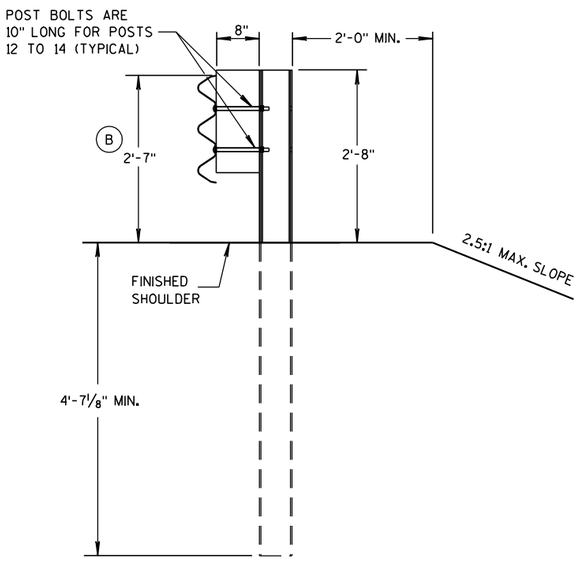


PLATE WASHER DETAIL

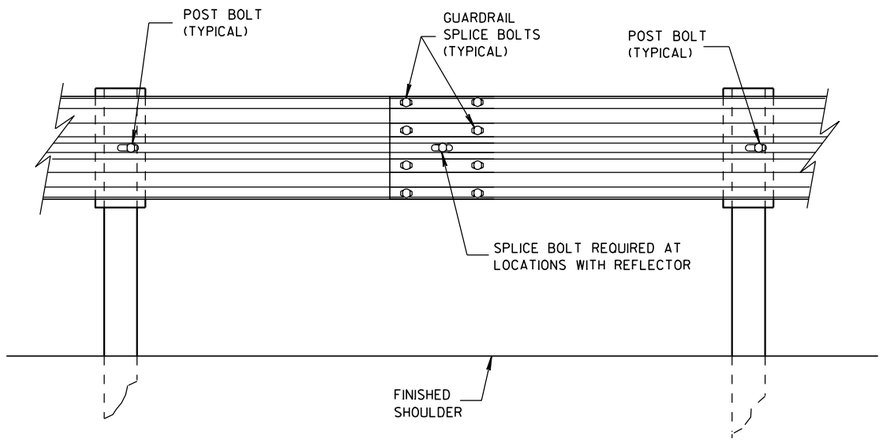


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-14



SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

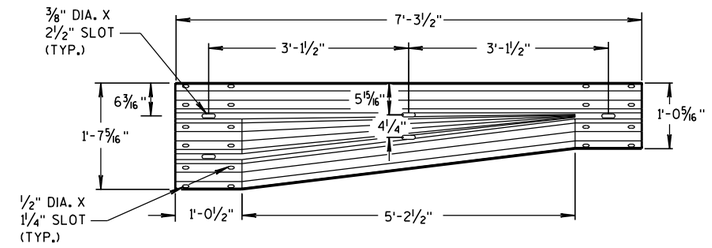
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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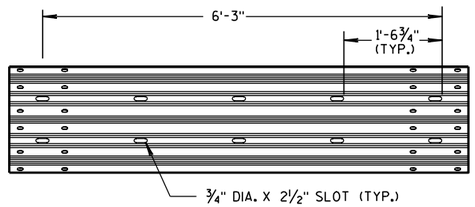
S.D.D. 14 B 45-3b

6

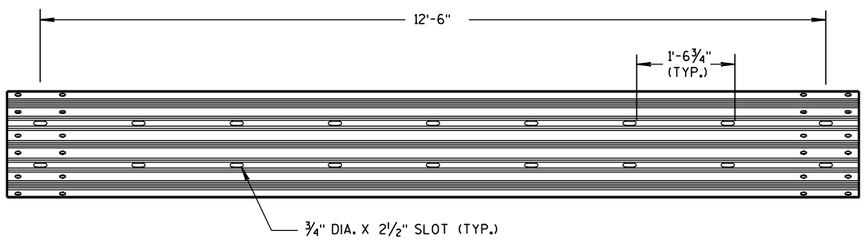
S.D.D. 14 B 45-3b



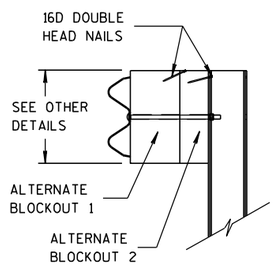
W-BEAM TO THRIE BEAM TRANSITION SECTION



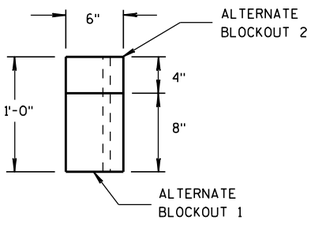
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

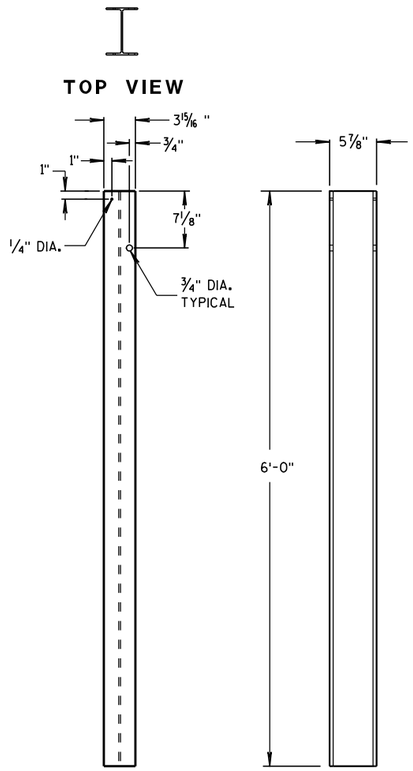


SIDE VIEW

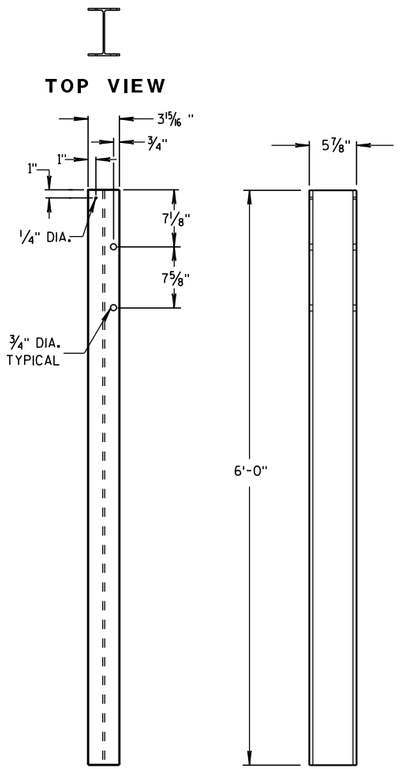


TOP VIEW

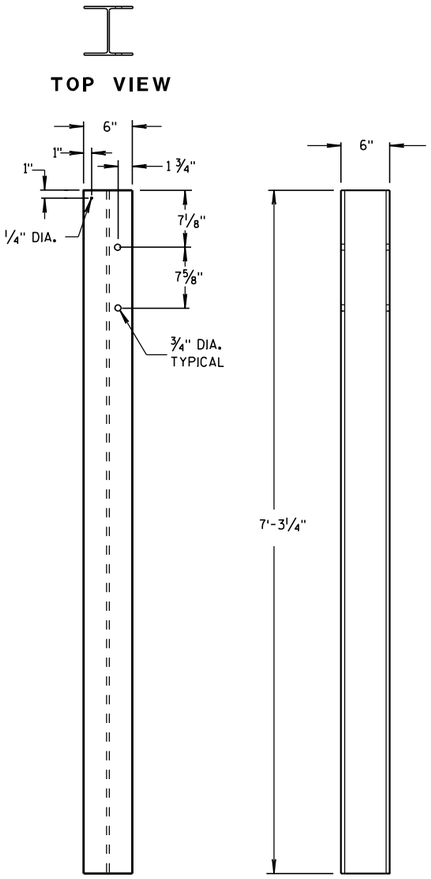
ALTERNATE WOOD BLOCKOUT DETAIL



STEEL POSTS 1-5

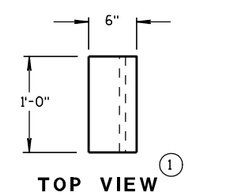


STEEL POSTS 6-11

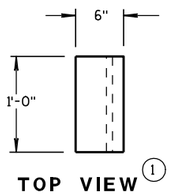


STEEL POSTS 12-14

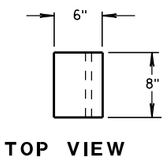
① WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



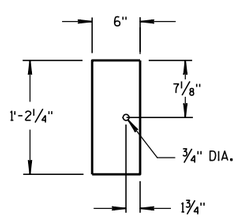
TOP VIEW ①



TOP VIEW ①

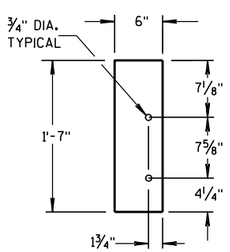


TOP VIEW



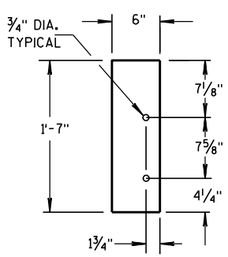
FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-11



FRONT VIEW

BLOCKOUT POSTS 12-14

STEEL POST SIZES

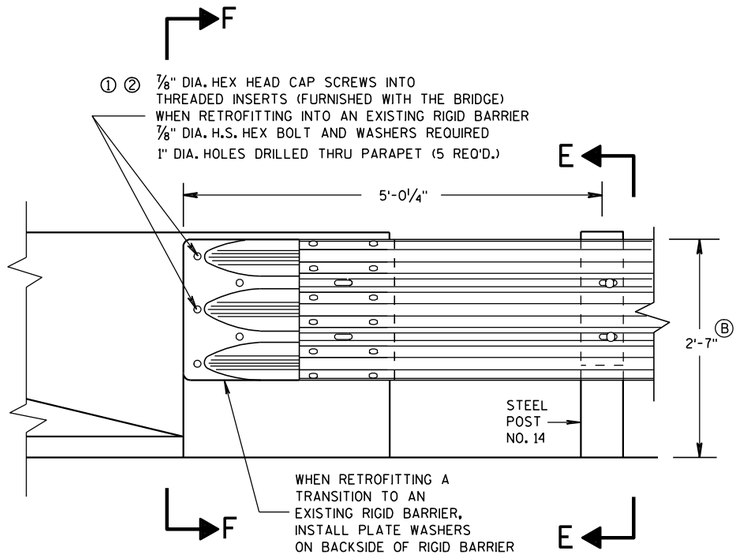
POST NUMBER	SECTION TYPE	LENGTH
①	W6x9	72"
②	W6x9	72"
③	W6x9	72"
④	W6x9	72"
⑤	W6x9	72"
⑥	W6x9	72"
⑦	W6x9	72"
⑧	W6x9	72"
⑨	W6x9	72"
⑩	W6x9	72"
⑪	W6x9	72"
⑫	W6x15	87 1/8"
⑬	W6x15	87 1/8"
⑭	W6x15	87 1/8"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

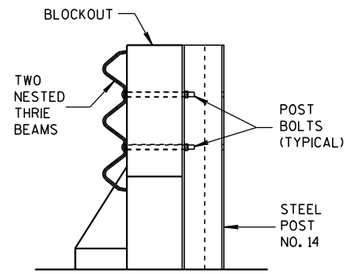
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 45-3c



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.

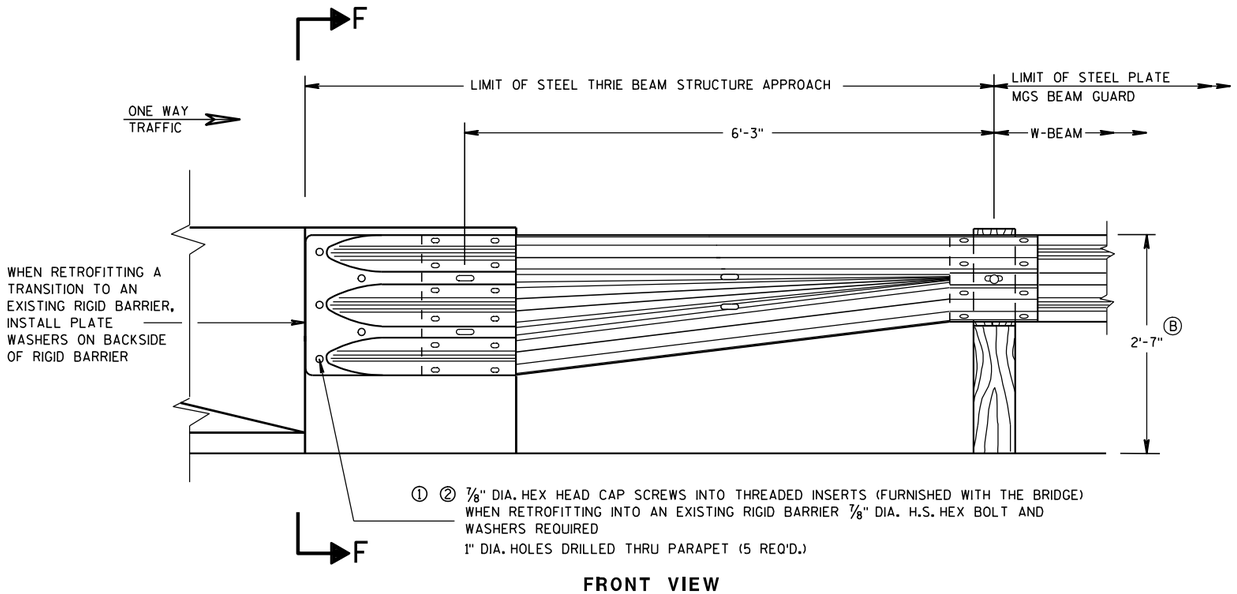
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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.

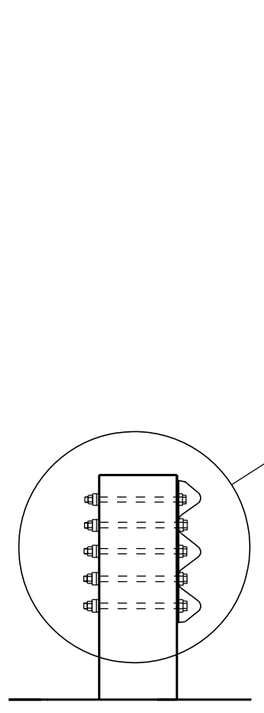
③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

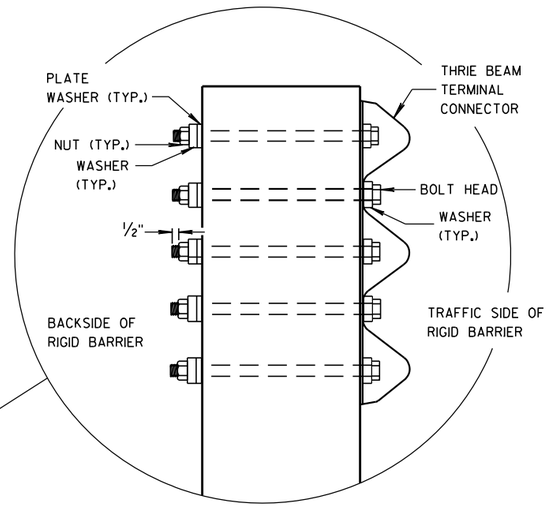
THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



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 [illegible]425 [illegible]ENT
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.

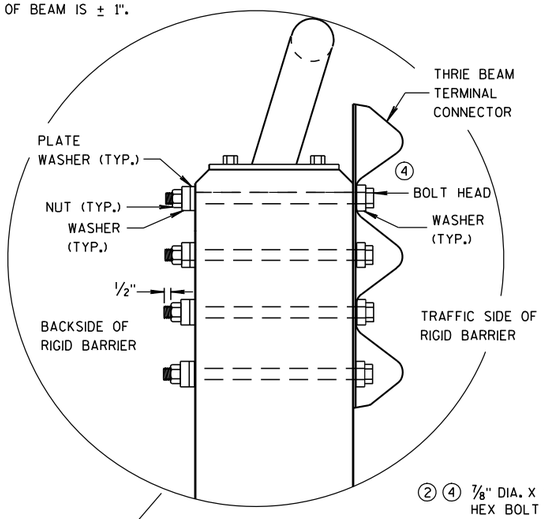
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

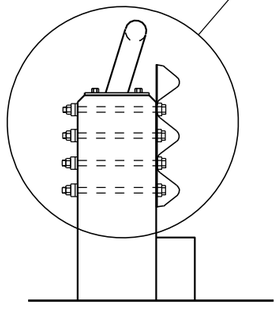
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. 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.

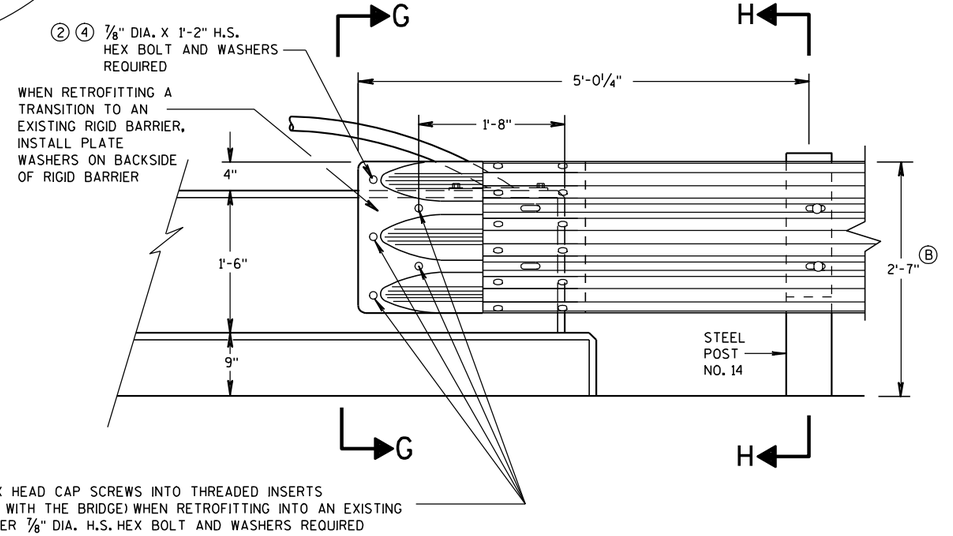
④ BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

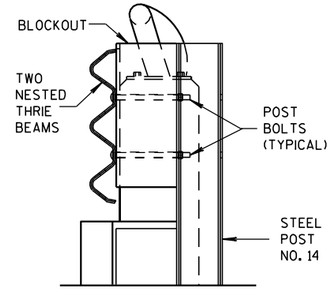




SECTION G-G

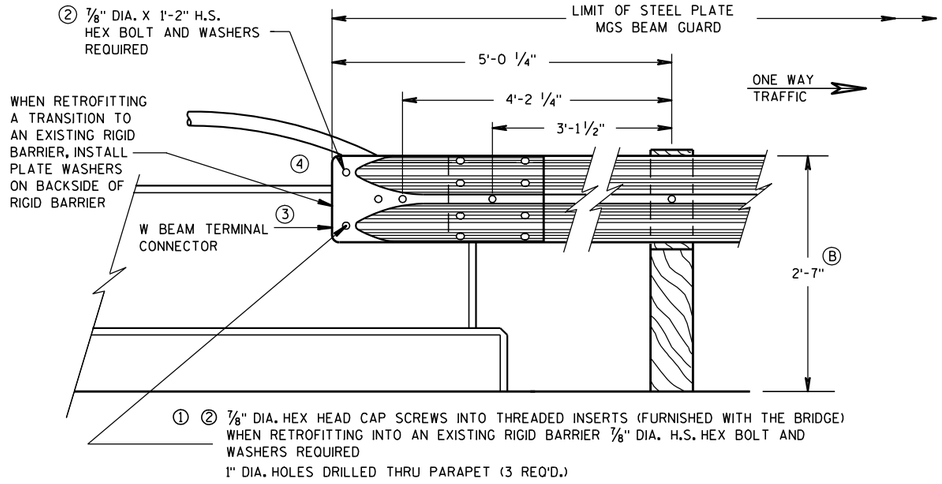


FRONT VIEW



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

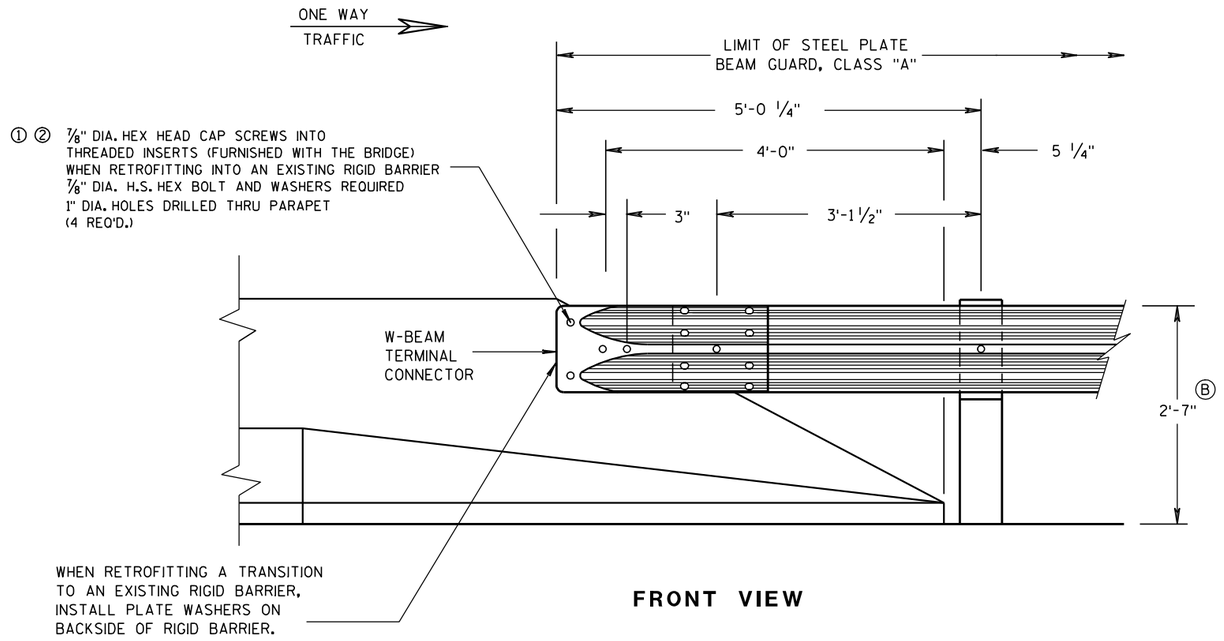
APPROVED

8-31-2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 14 B 45-3e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

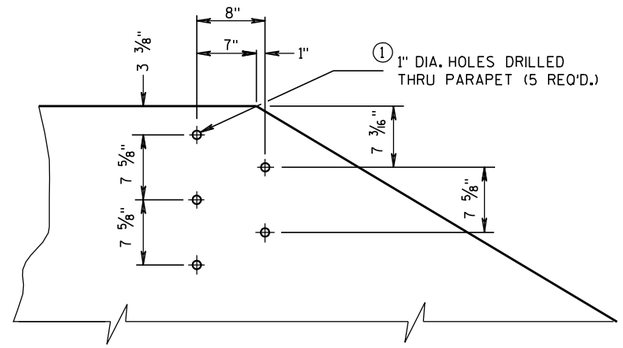
(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

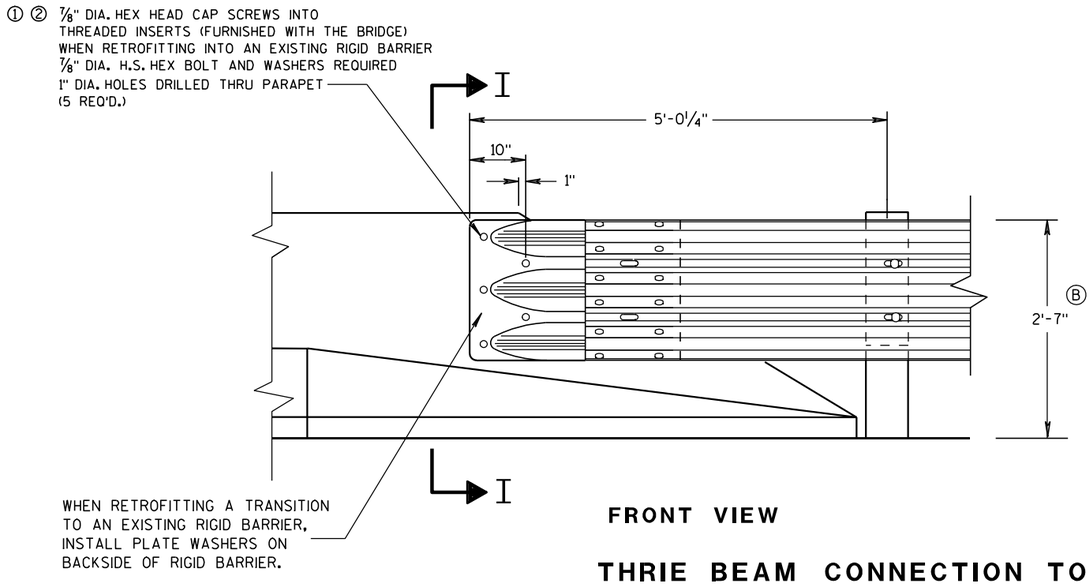
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② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED 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.

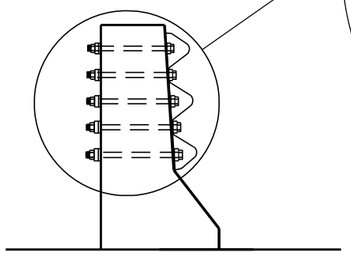
Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".



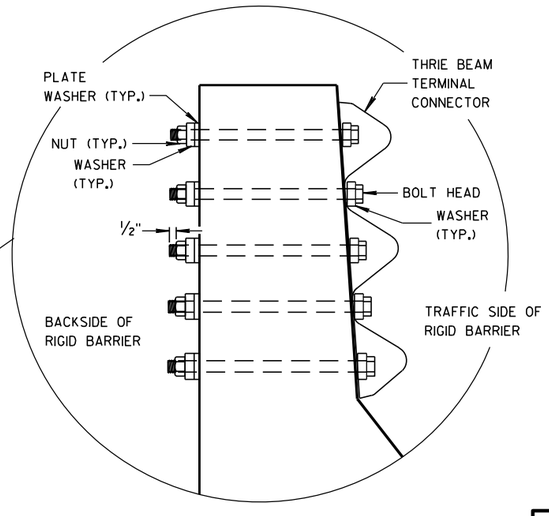
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



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

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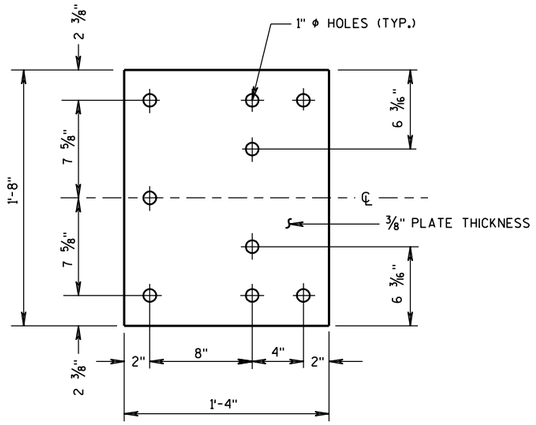
FHWA

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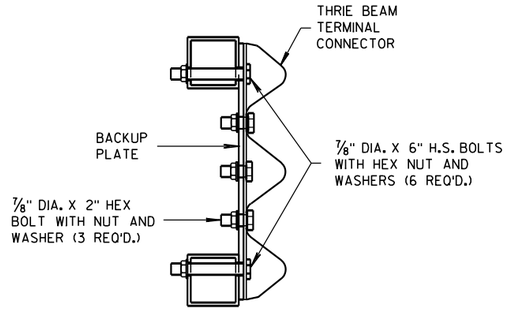
S.D.D. 14 B 45-3f

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S.D.D. 14 B 45-3f



BACK-UP PLATE DETAIL

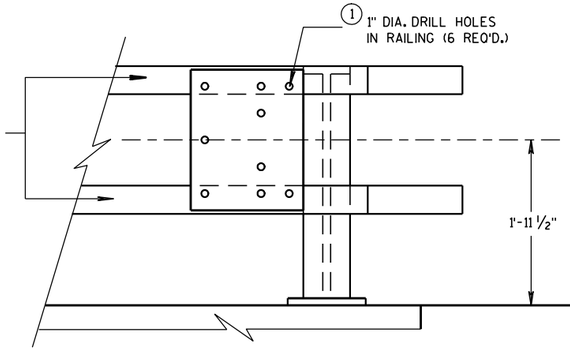


SECTION J-J

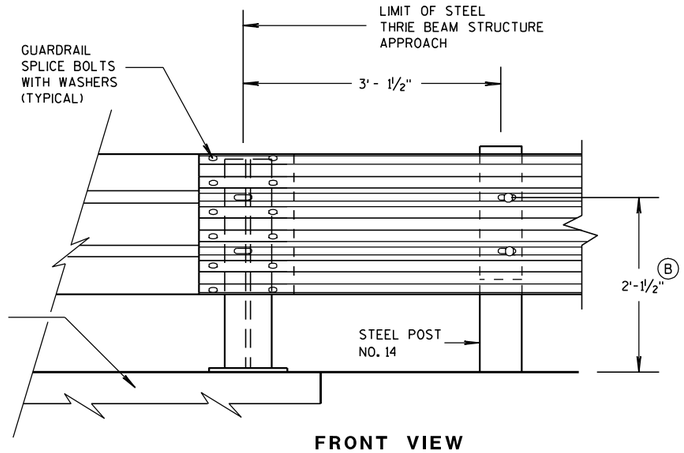
GENERAL NOTES

(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".

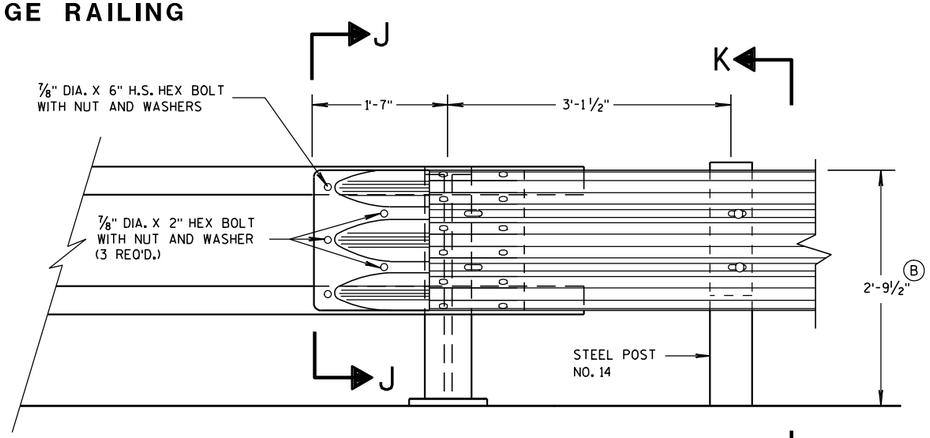


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

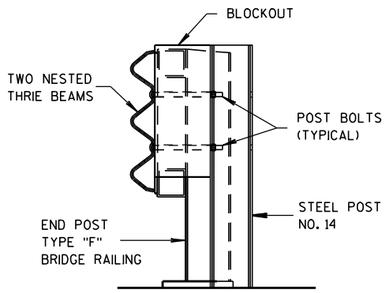


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

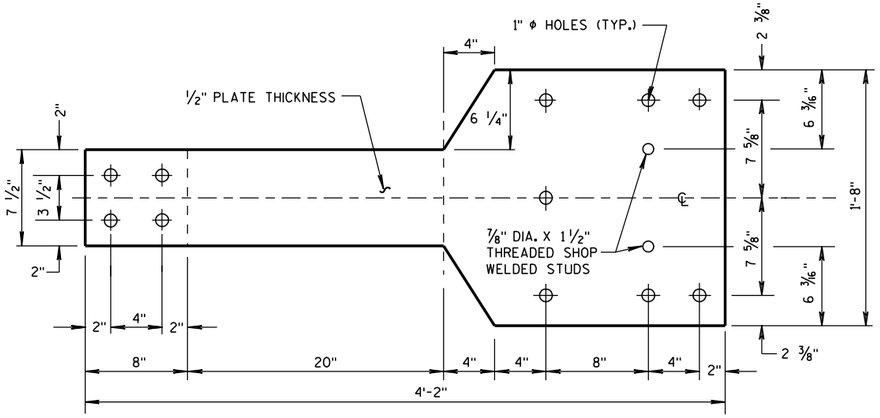
THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

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

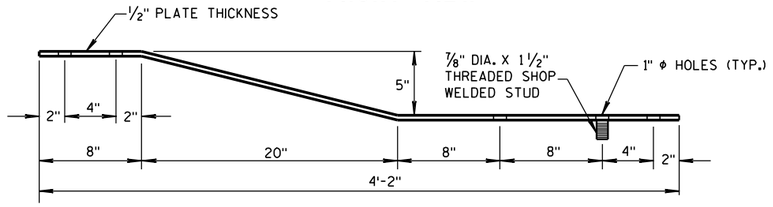
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S.D.D. 14 B 45-3g

GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

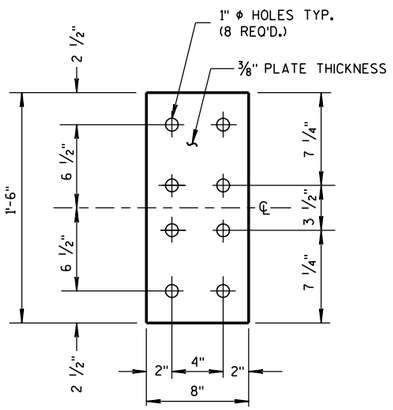


FRONT VIEW



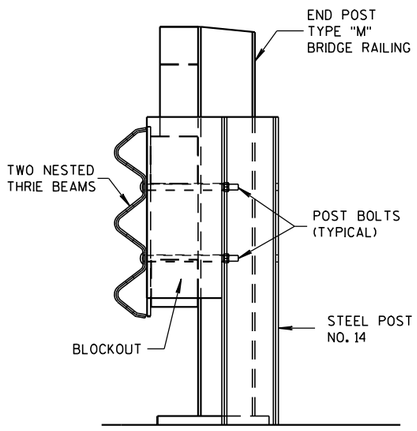
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

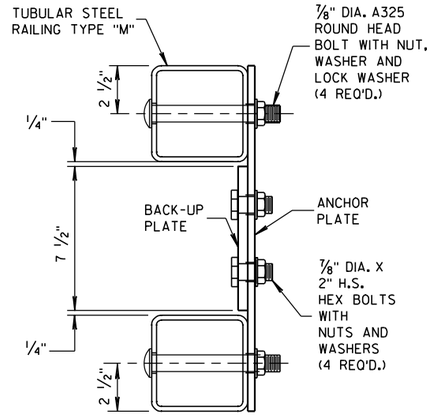


FRONT VIEW

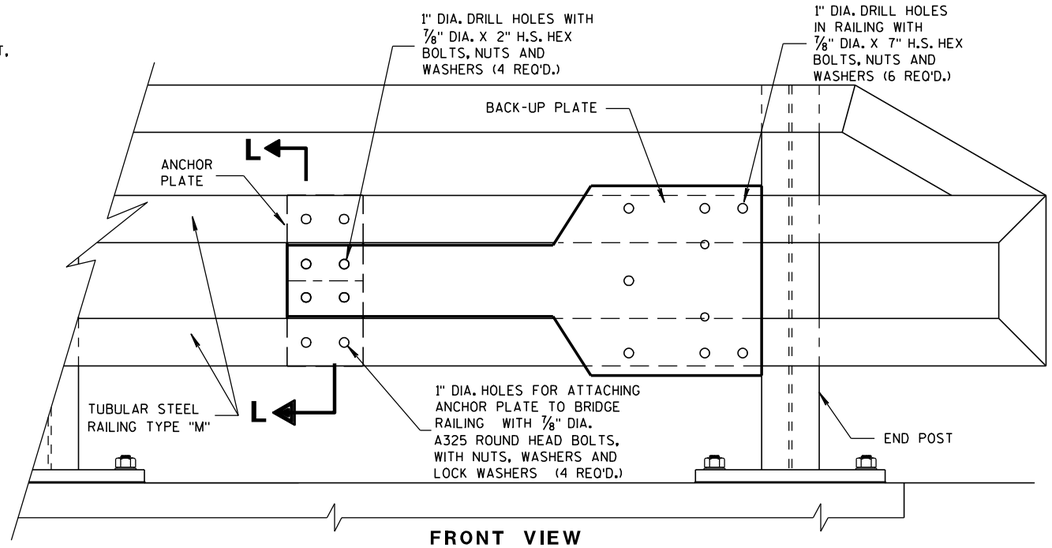
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

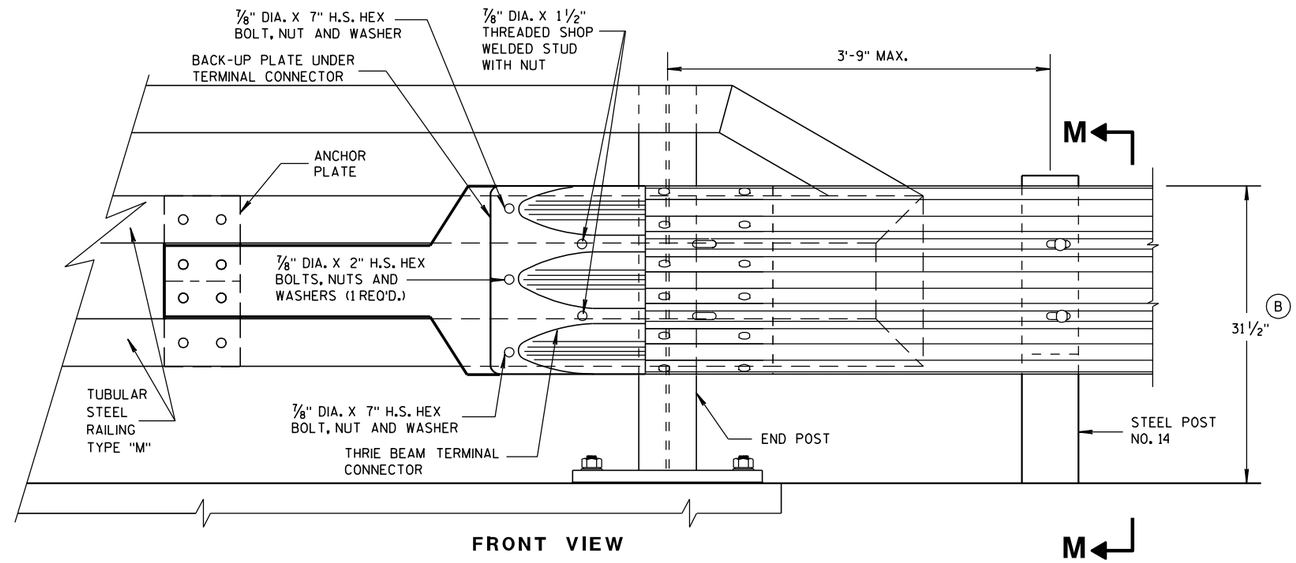


SECTION L-L

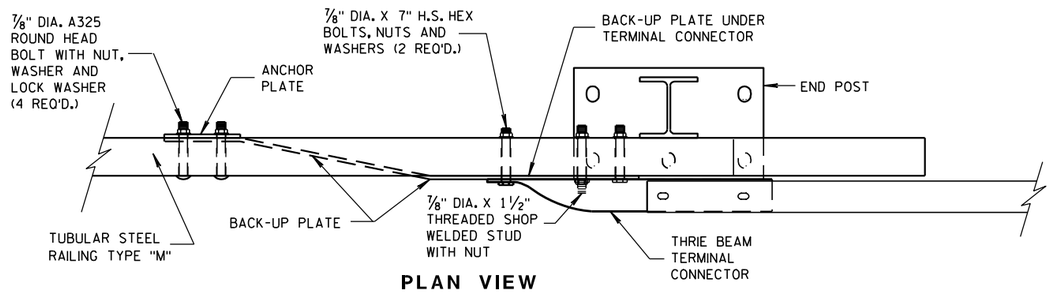


FRONT VIEW

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

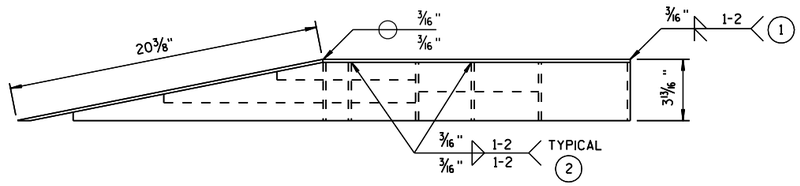
FHWA ENT

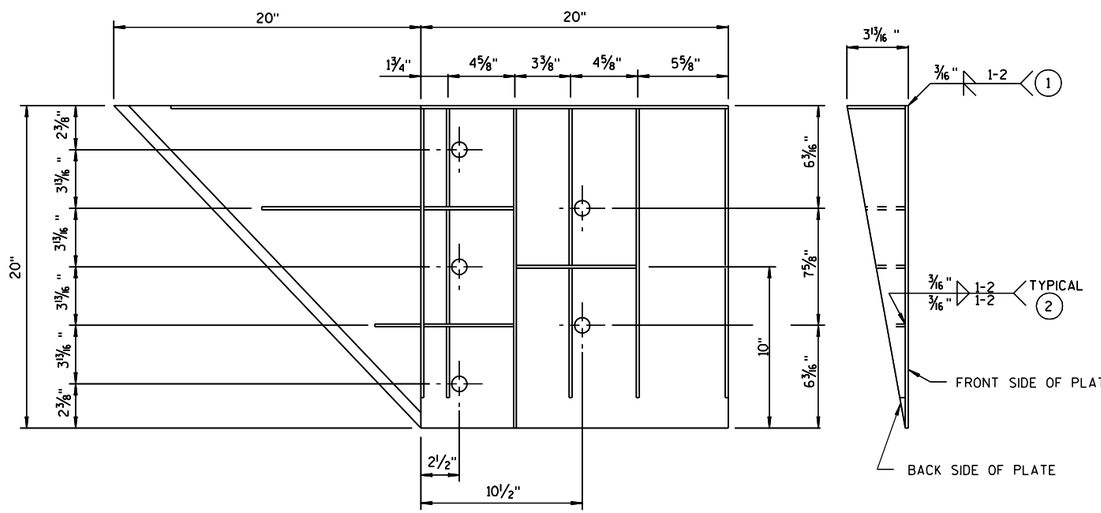
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S.D.D. 14 B 45-3h

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S.D.D. 14 B 45-3h





WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

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".

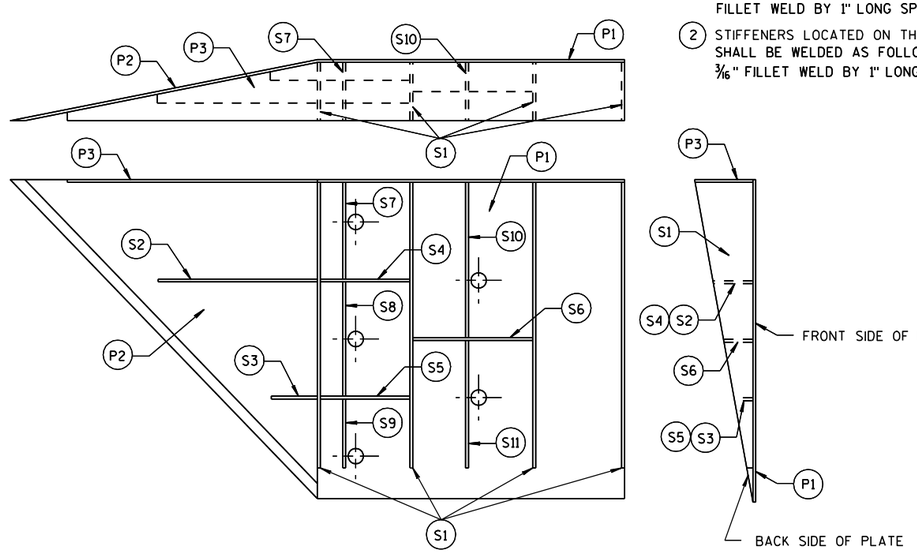


PLATE AND STIFFENER IDENTIFICATION

(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

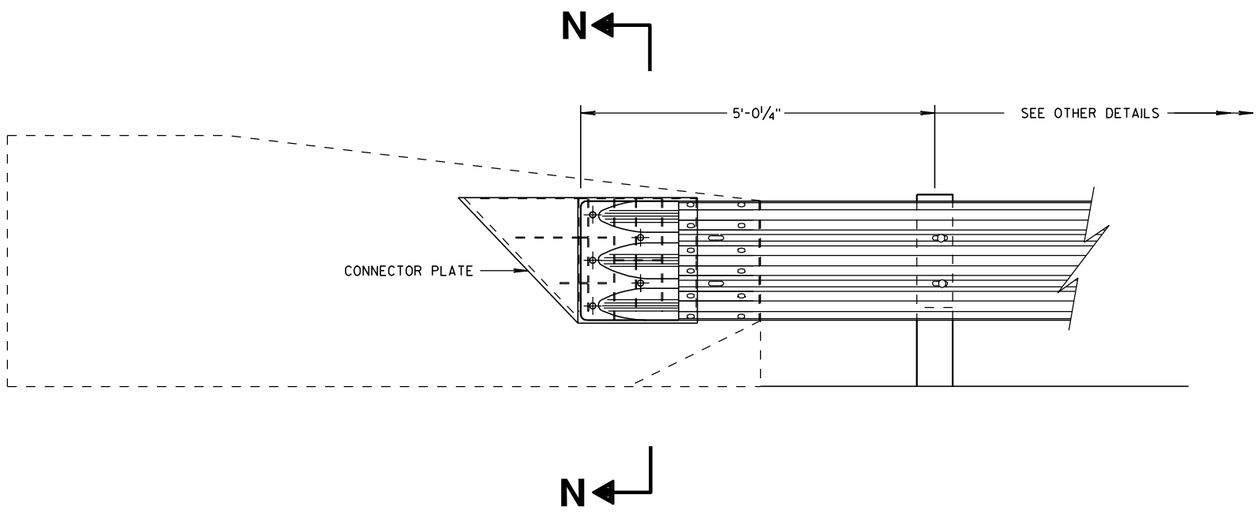
APPROVED
8/31/2012
DATE
/S/ Jerry H ...
ROADWAY STANDARDS 430 ...MENT
ENGINEER
FHWA

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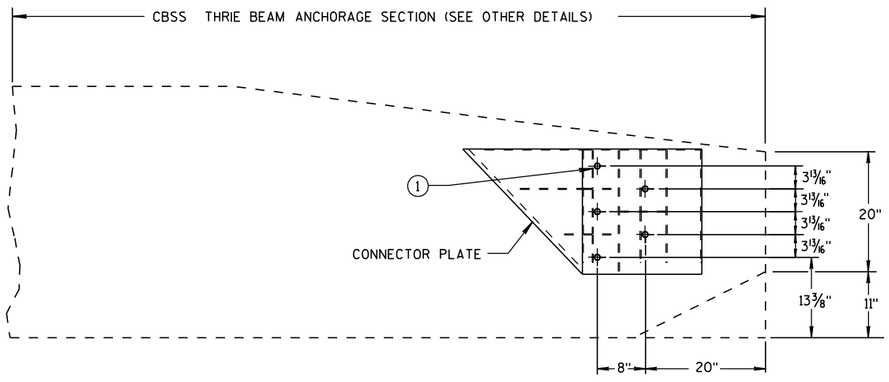
S.D.D. 14 B 45-3i

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S.D.D. 14 B 45-3i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

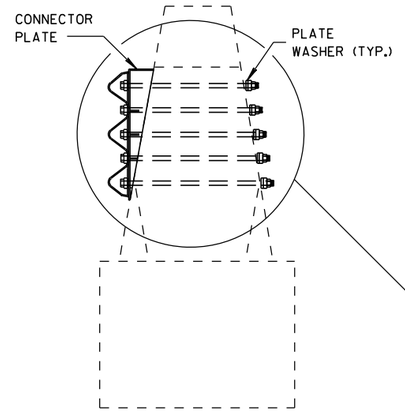


SINGLE SLOPE CONNECTION PLATE PLACEMENT

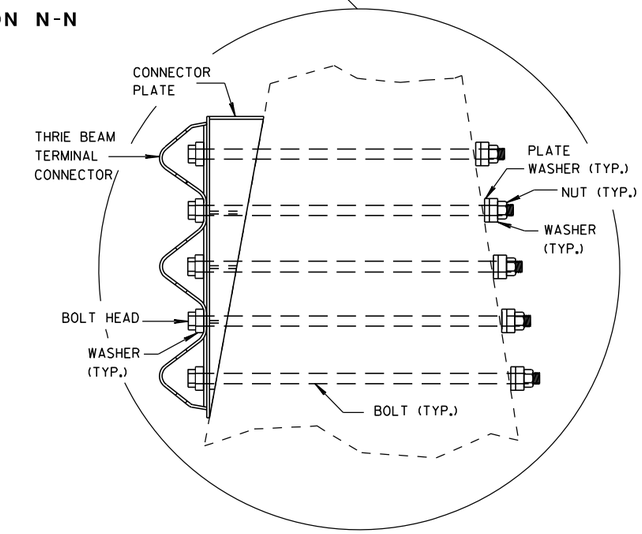
GENERAL NOTES

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 ⅝" 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

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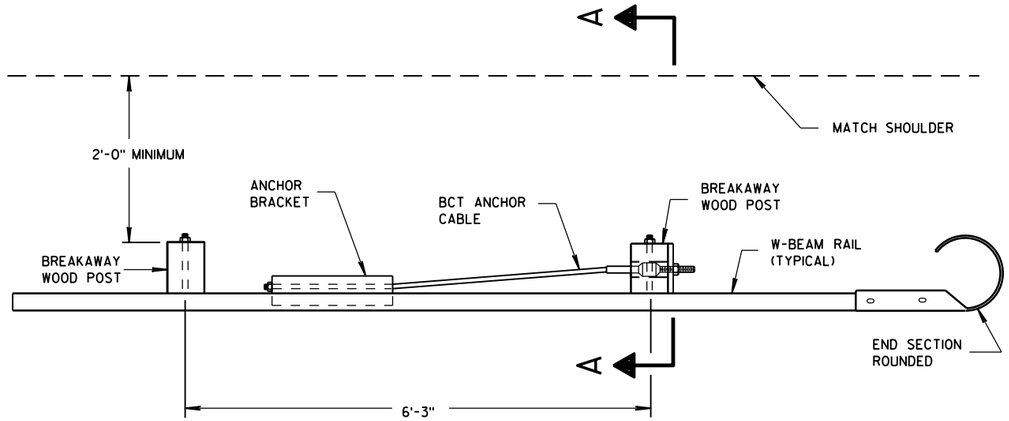
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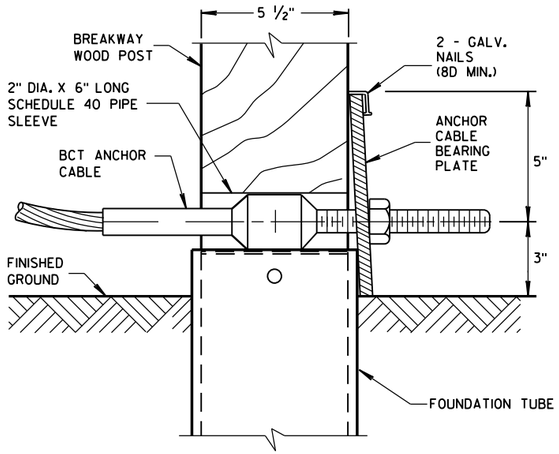
S.D.D. 14 B 45-3j

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S.D.D. 14 B 45-3j



PLAN VIEW



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

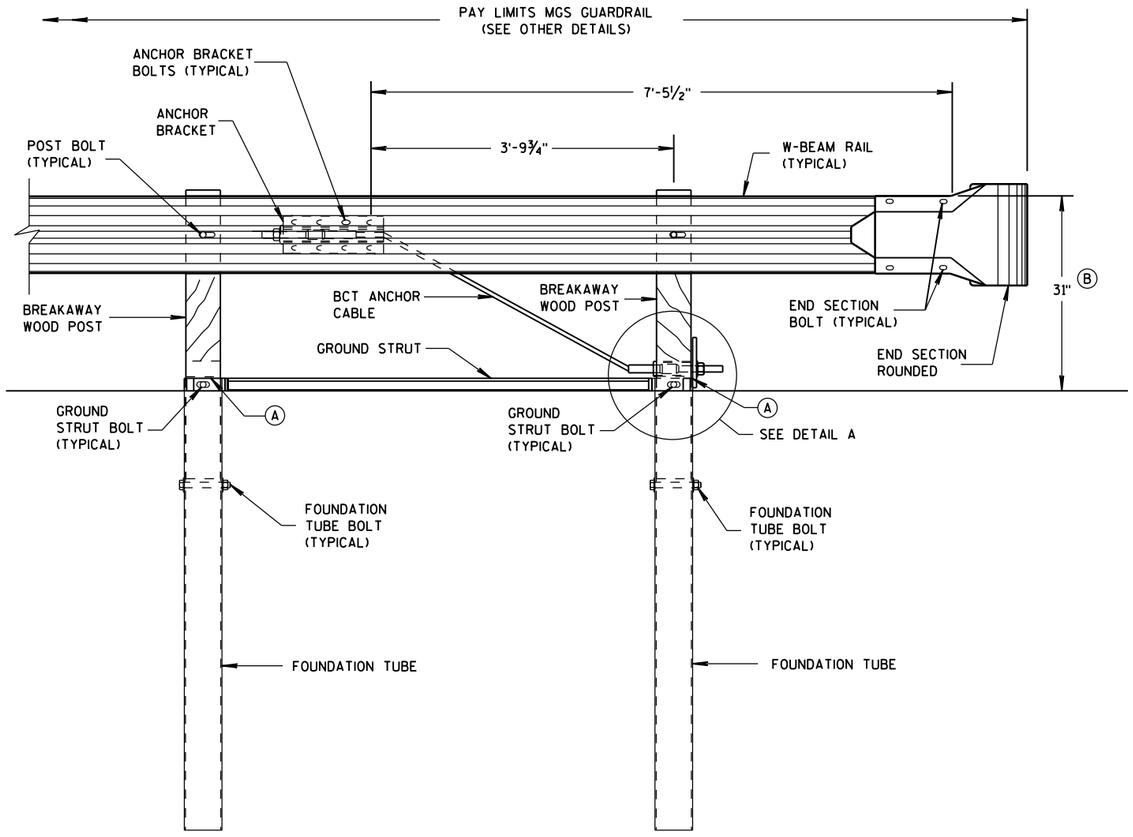
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

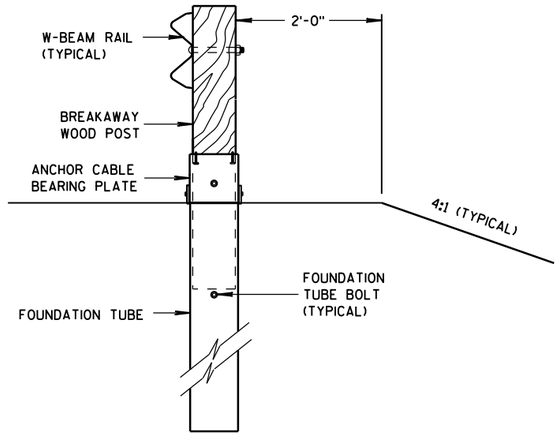
(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".

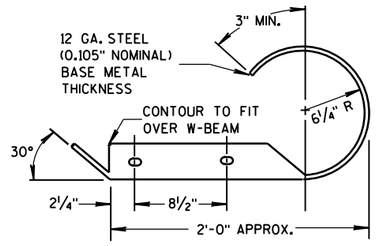


FRONT VIEW

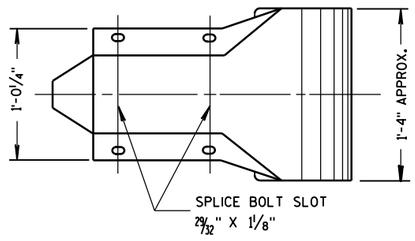
END RAIL DETAIL



SECTION A-A



PLAN VIEW



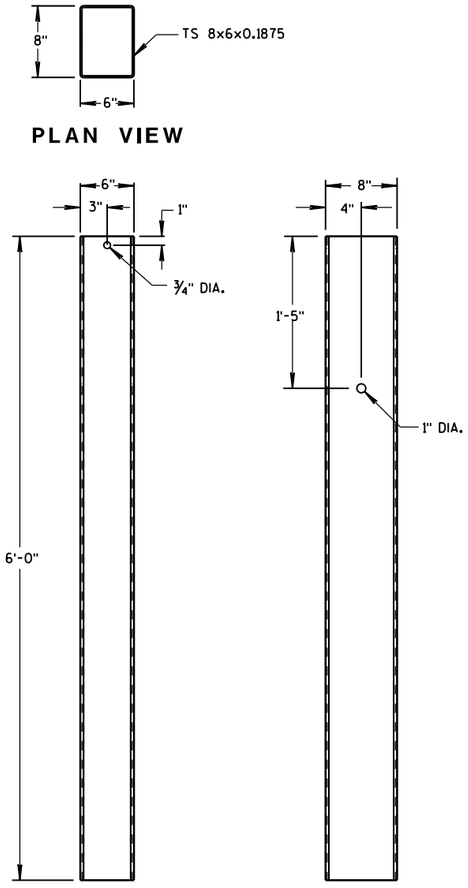
FRONT VIEW

W BEAM END SECTION ROUNDED

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

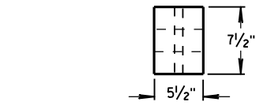
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S.D.D. 14 B 47-2a



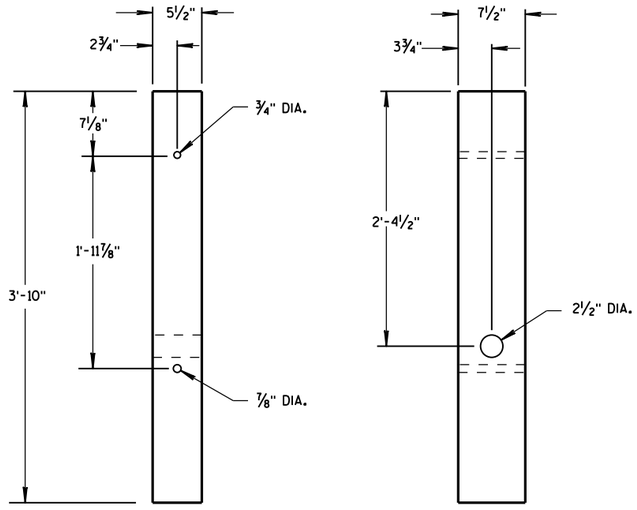
PLAN VIEW

FRONT VIEW SIDE VIEW

FOUNDATION TUBE



PLAN VIEW



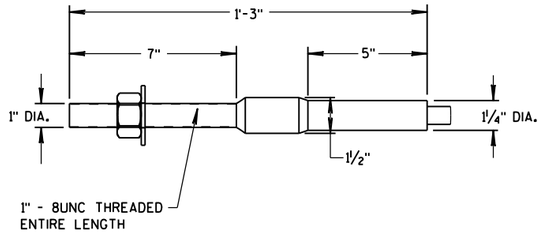
FRONT VIEW SIDE VIEW

BREAKAWAY WOOD POST

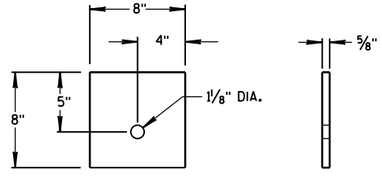
GENERAL NOTES

BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL 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



SIDE VIEW FRONT VIEW

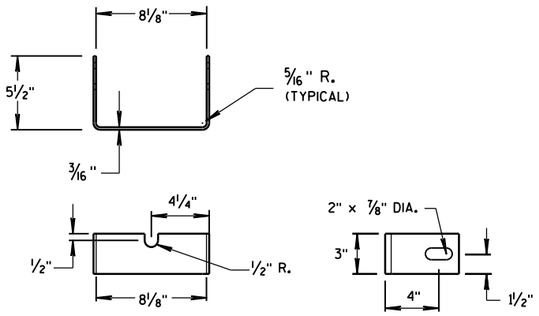
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

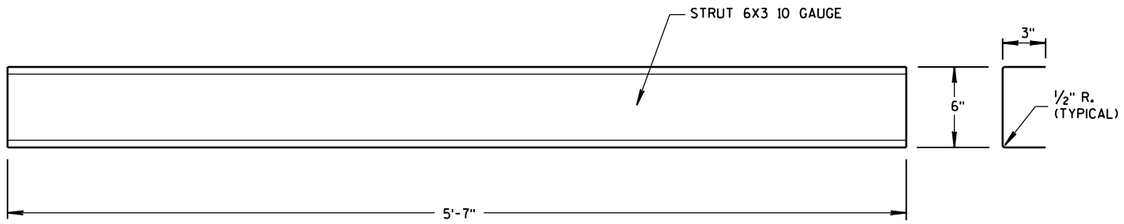
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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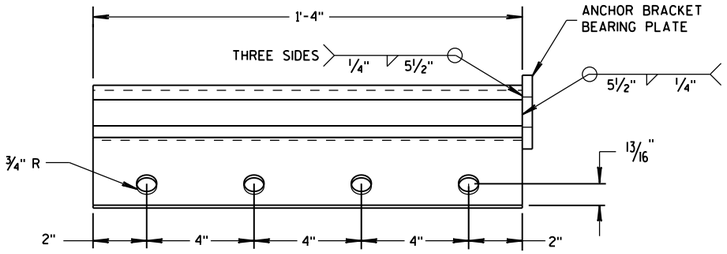
S.D.D. 14 B 47-2b

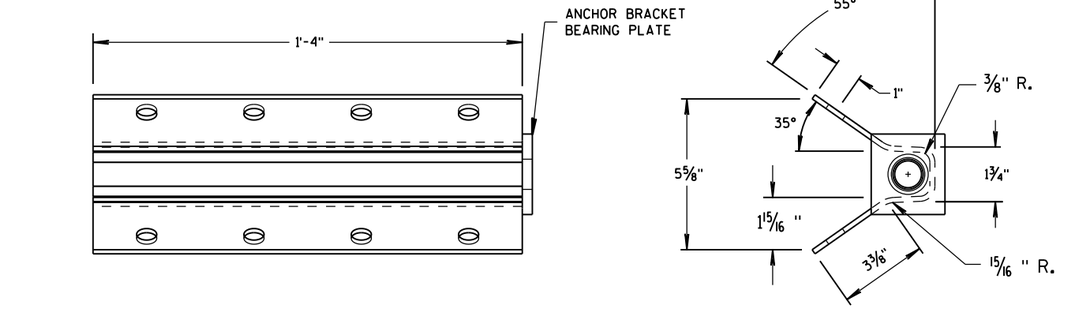


YOKE DETAIL

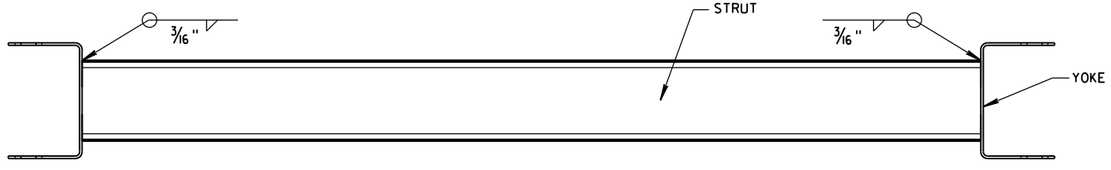


STRUT DETAIL

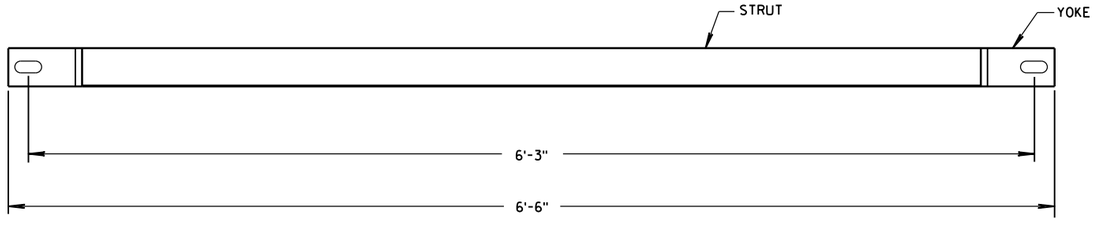




ANCHOR BRACKET

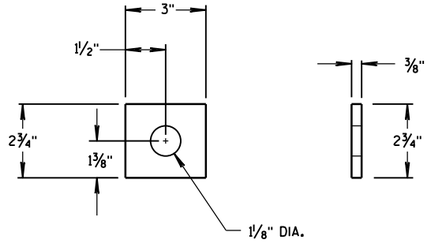


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

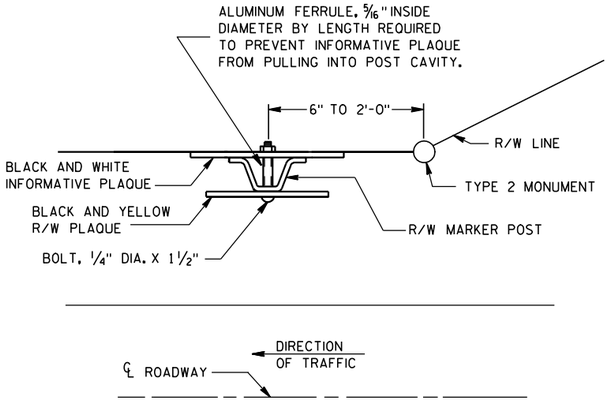
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

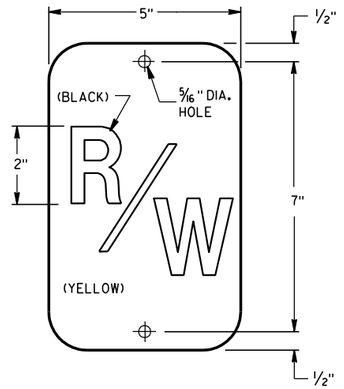
APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 14 B 47-2c

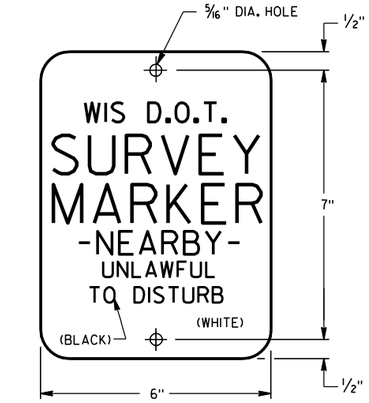


PLAN VIEW



R/W PLAQUE

THE RIGHT-OF-WAY PLAQUE AND INFORMATIVE PLAQUE WILL BE FURNISHED BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION.



INFORMATIVE PLAQUE

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.

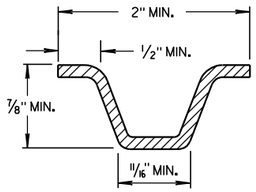
A STEEL MARKER POST FOR RIGHT-OF-WAY SHALL BE PLACED IN THE RIGHT-OF-WAY, WITH THE BACK OF THE POST ON THE LONGER RIGHT-OF-WAY TANGENT, 6 INCHES TO 24 INCHES FROM EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE "R/W" PLAQUE SHALL FACE THE ROADWAY AND THE INFORMATIVE PLAQUE SHALL FACE AWAY FROM THE ROADWAY. R/W AND INFORMATIVE PLAQUES WILL BE FURNISHED BY THE DEPARTMENT OF TRANSPORTATION.

STEEL MARKER POSTS SHALL MEET THE MINIMUM MATERIAL REQUIREMENTS FOR STEEL DELINEATOR POSTS; EXCEPT POSTS PAINTED WITH FEDERAL YELLOW ENAMEL NEED NOT BE ZINC COATED.

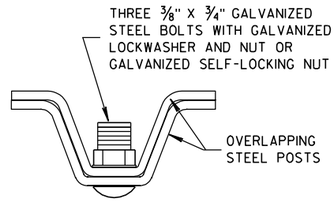
(1) IN AREAS OF SOLID ROCK, DRILL A BORE HOLE 2" GREATER THAN THE WIDEST DIMENSION OF THE POST CROSS SECTION INTO THE ROCK TO A MINIMUM DEPTH OF 12 INCHES. CUT OR SPLICE THE POST SO THAT A MINIMUM LENGTH OF 3' 10" PROTRUDES ABOVE THE GROUND. BLOW OUT THE BORE HOLE IN THE ROCK USING COMPRESSED AIR.

FILL THE BORE HOLE WITH CEMENT GROUT, OR EQUIVALENT, DEPENDING ON THE STABILITY OF THE ROCK.

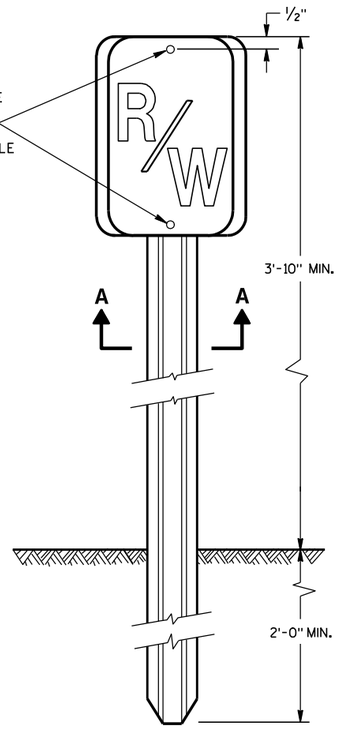


MIN. WEIGHT 1.12 LB./FT.

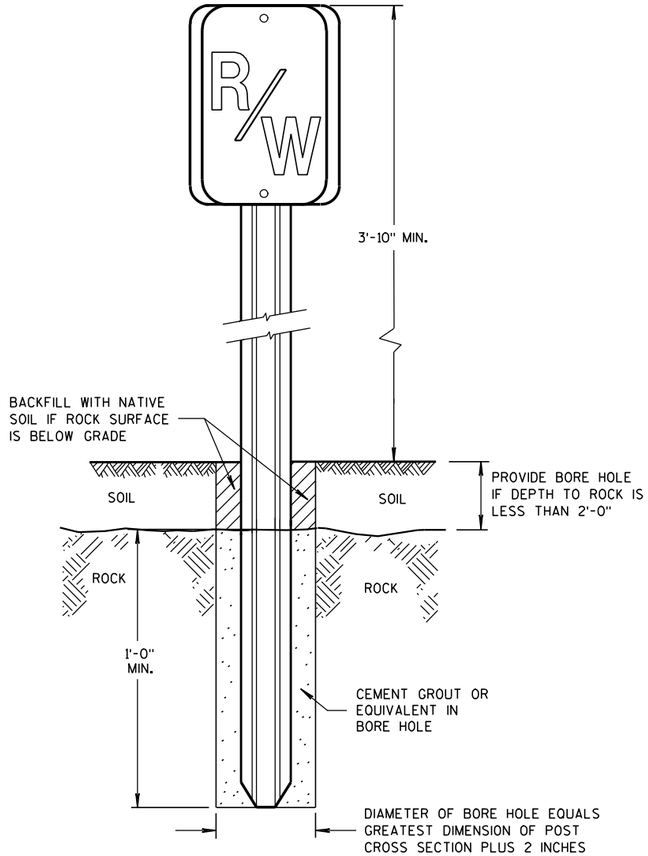
SECTION A-A



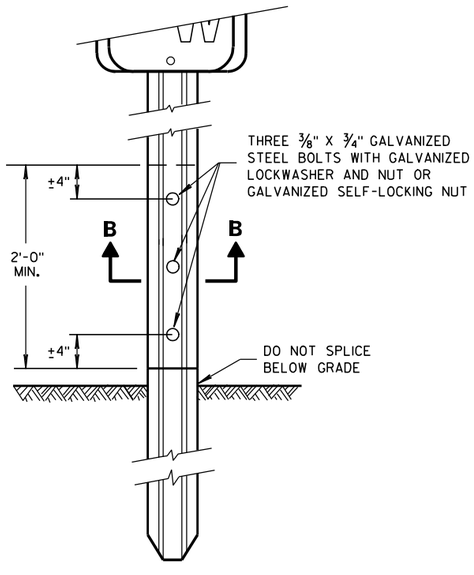
SECTION B-B



FRONT VIEW
STEEL MARKER POST



FRONT VIEW
ROCK INSTALLATION (1)



FRONT VIEW
SPLICE DETAIL

MARKER POST FOR RIGHT-OF-WAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

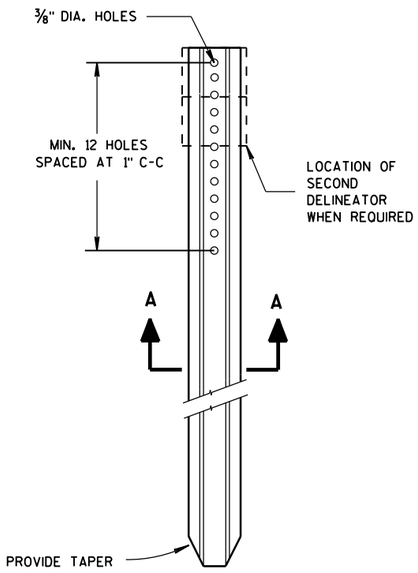
APPROVED
4/27/09 — DATE
/S/ Ray Kumapayi — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

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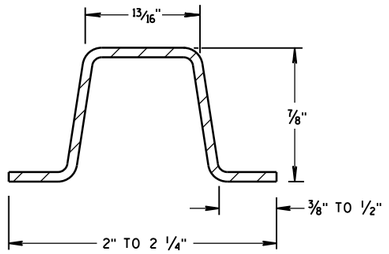
S.D.D. 15 A 1-11

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S.D.D. 15 A 1-11

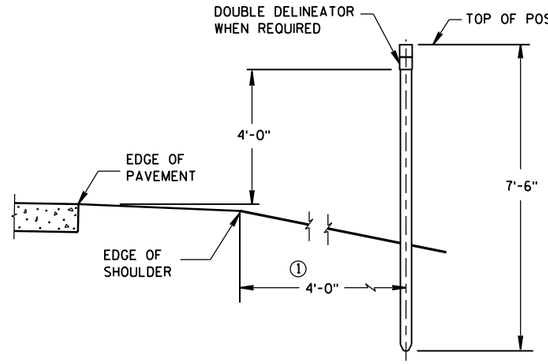


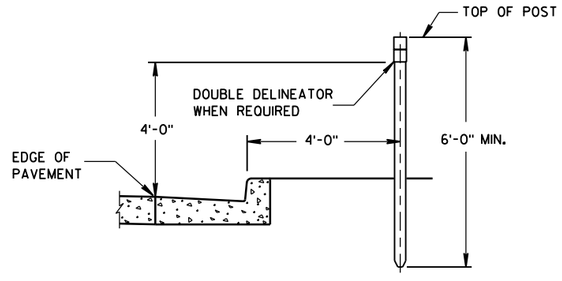
DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.



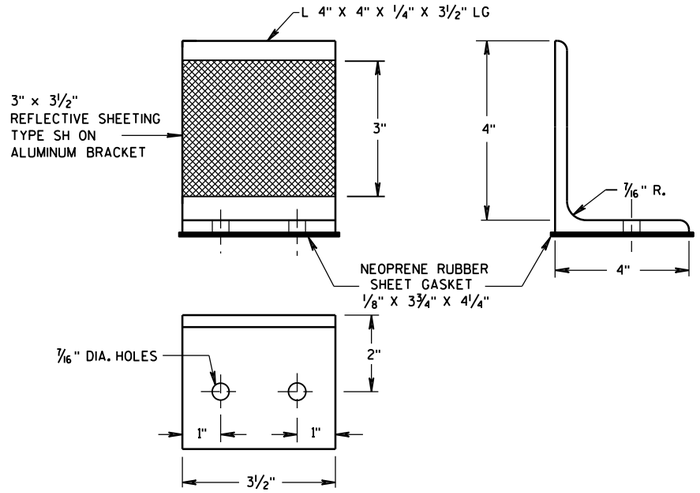


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

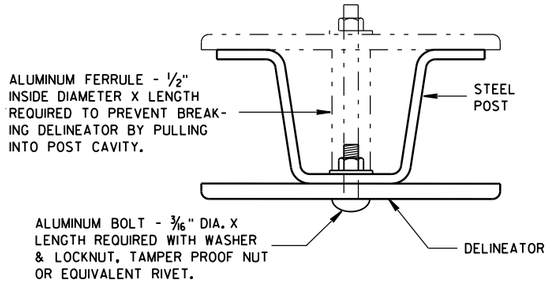
GENERAL NOTES

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

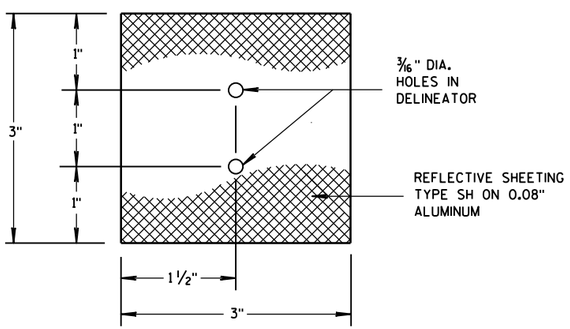
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



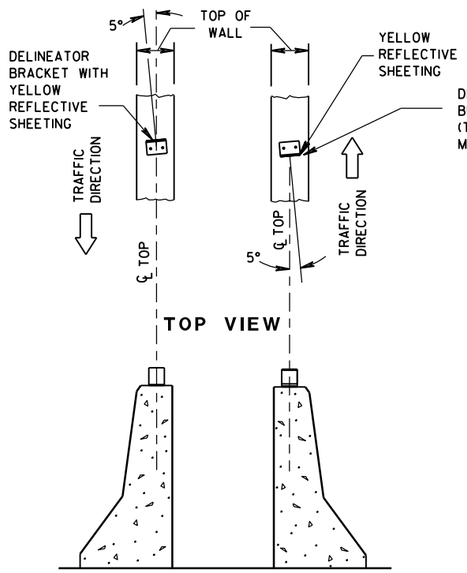
DELINEATOR BRACKET



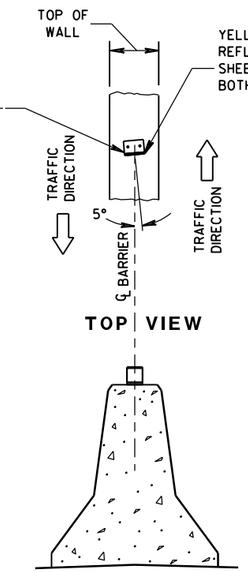
MOUNTING DETAIL FOR DELINEATOR



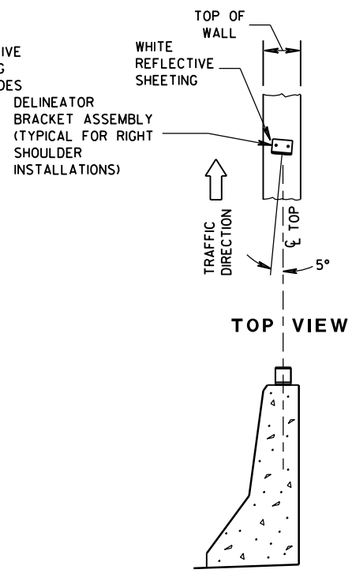
3"x 3" DELINEATOR



DOUBLE BARRIERS IN MEDIAN

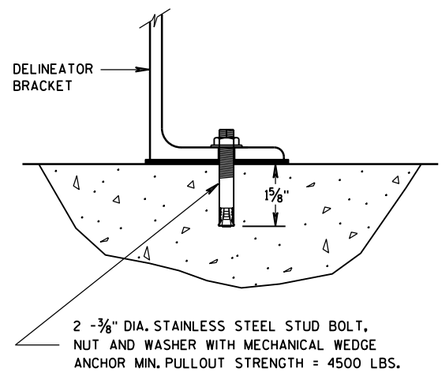


MEDIAN BARRIER



BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

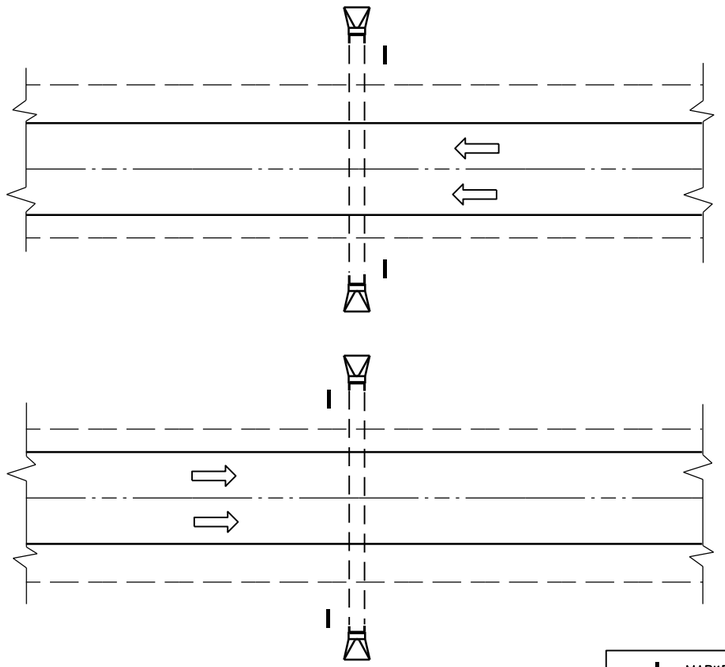
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7/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC E
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S.D.D. 15 A 2-8

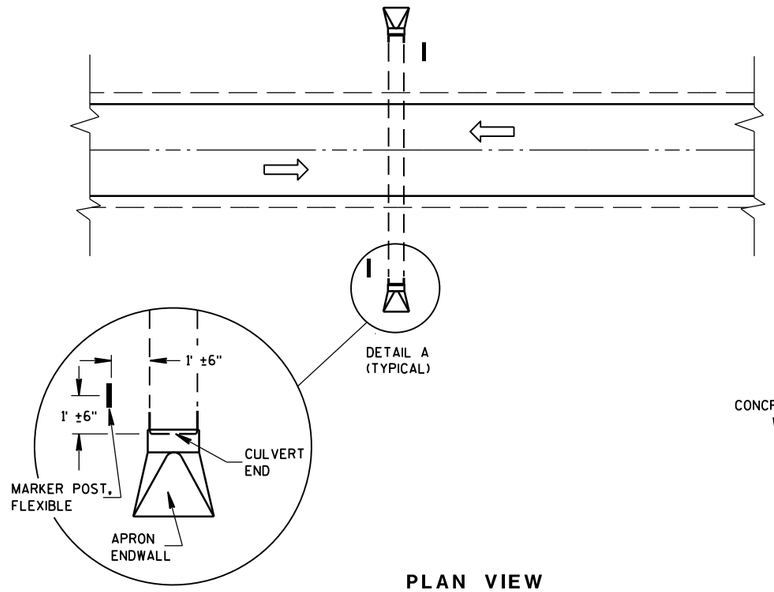
6

S.D.D. 15 A 2-8



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

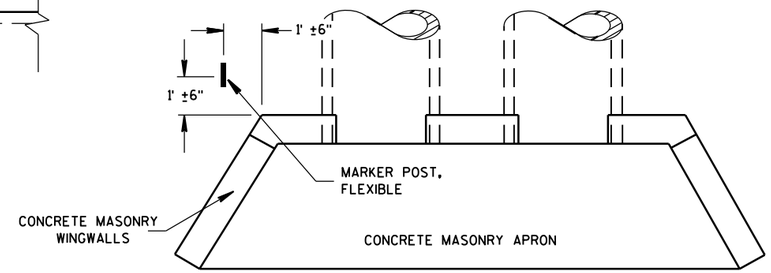
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

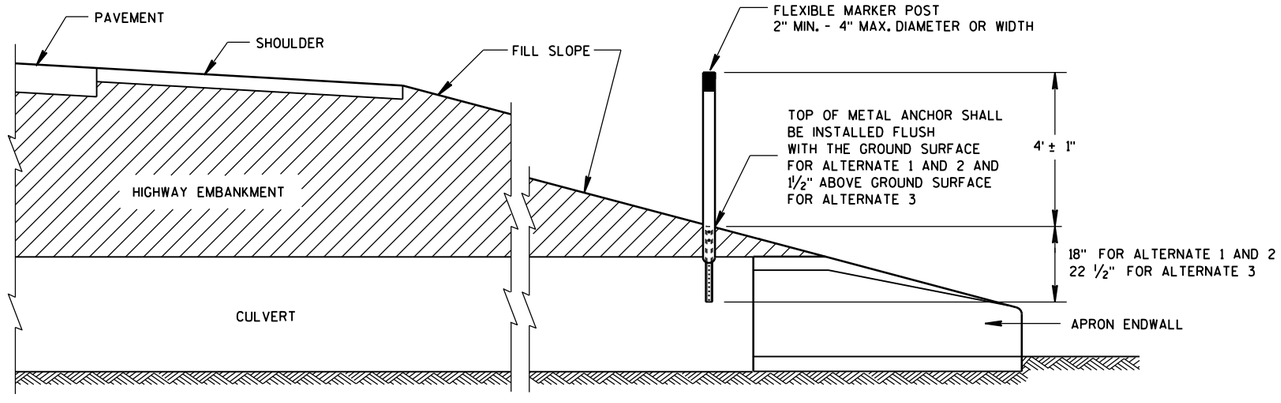
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

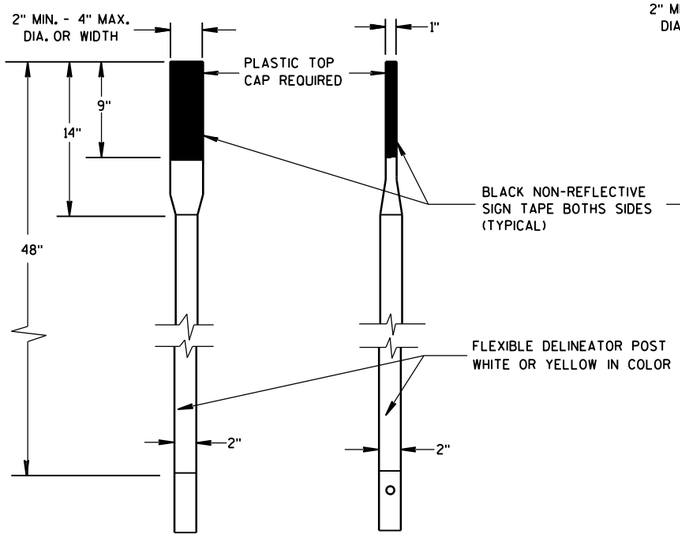
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

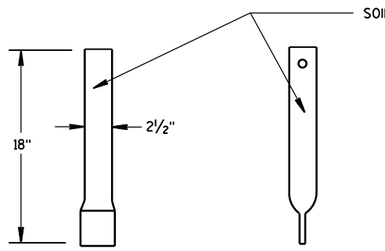
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S.D.D. 15 A 3-2a

6

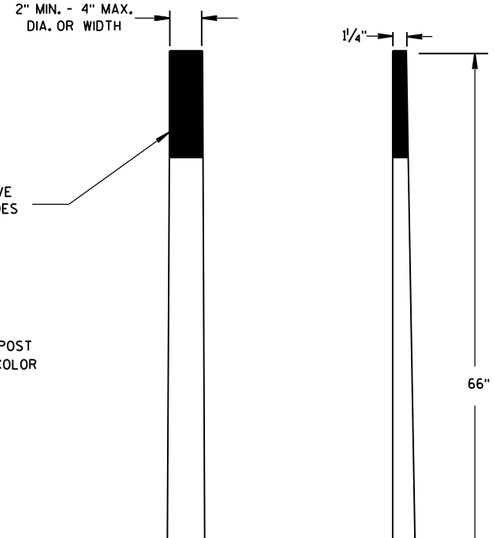
S.D.D. 15 A 3-2a





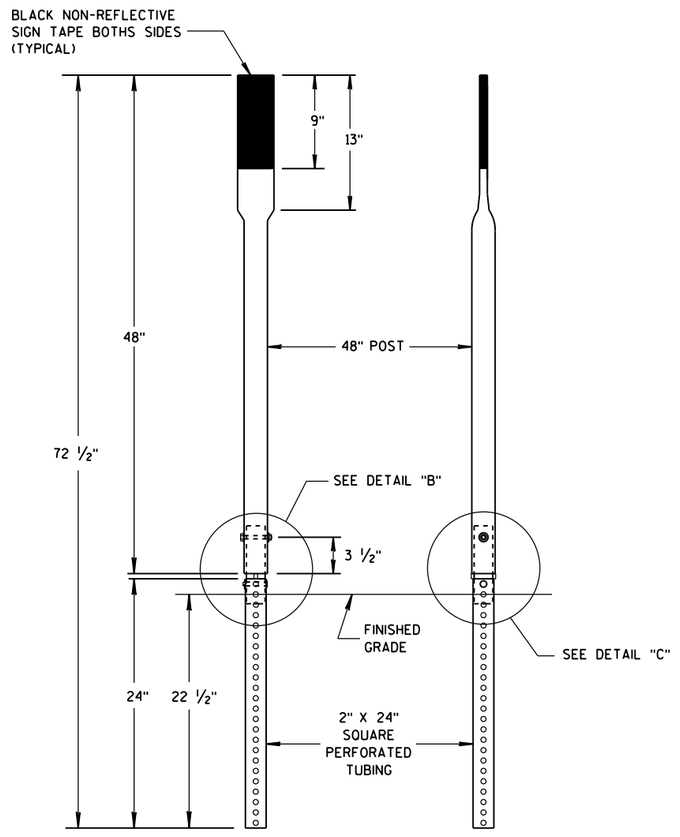
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

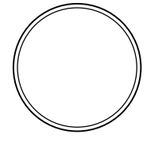
ALTERNATE 2



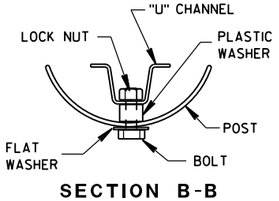
FRONT VIEW SIDE VIEW

ALTERNATE 3

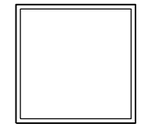
FLEXIBLE MARKER POSTS



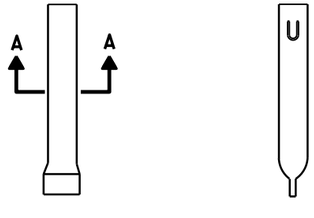
SECTION A-A



SECTION B-B

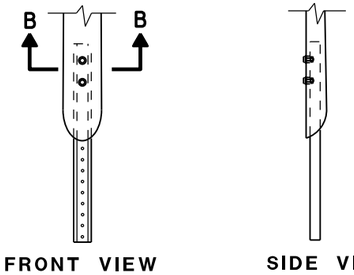


SECTION C-C



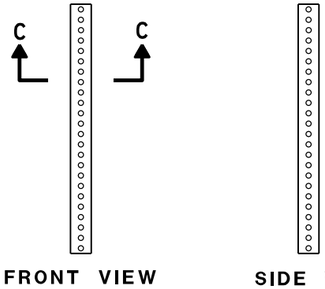
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

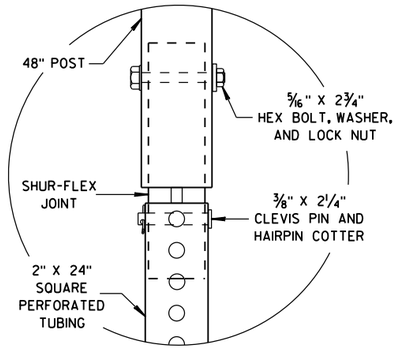
ALTERNATE 2



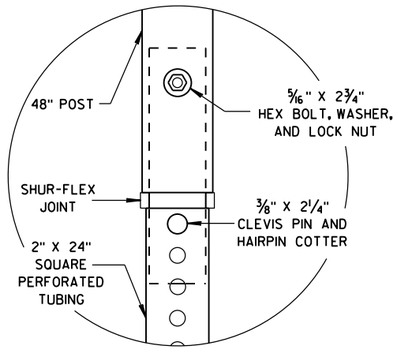
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

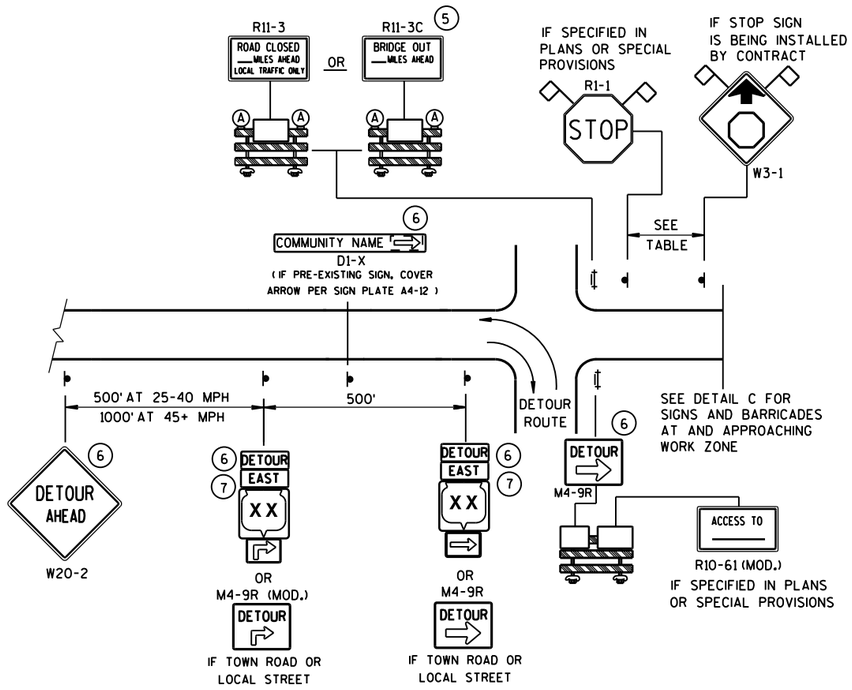
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
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S.D.D. 15 A 3-2b

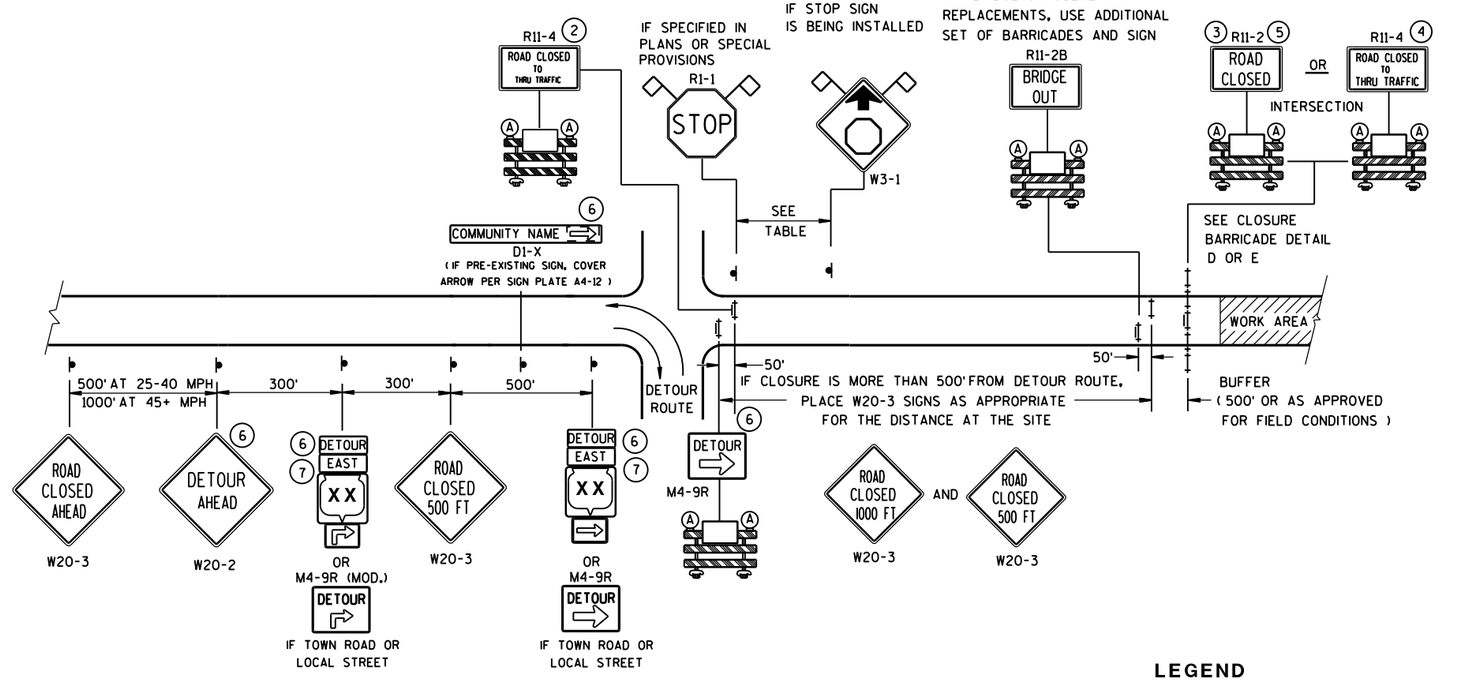
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S.D.D. 15 A 3-2b



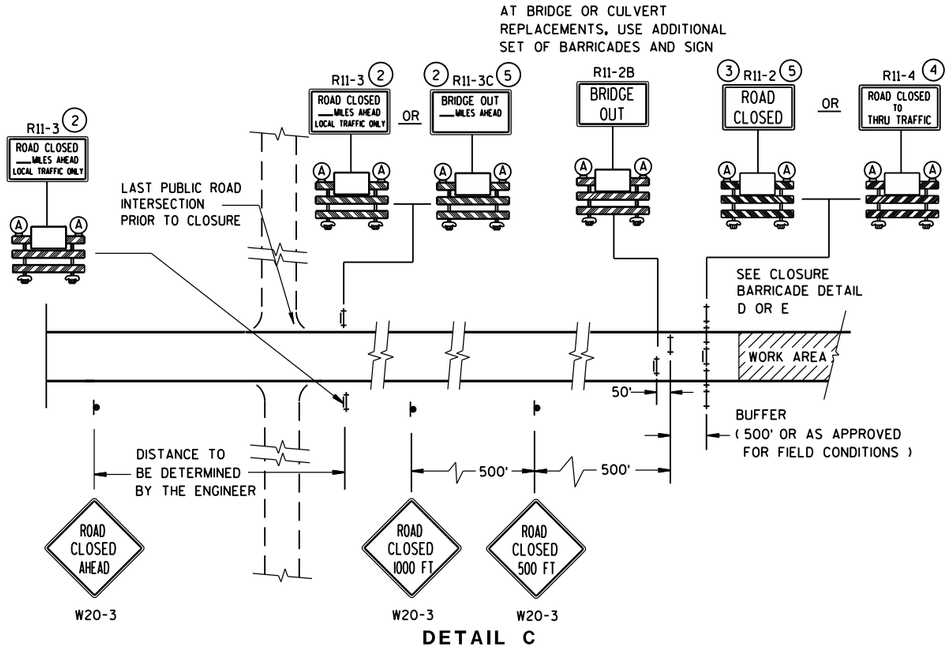
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS 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-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- 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

8/2013 DATE

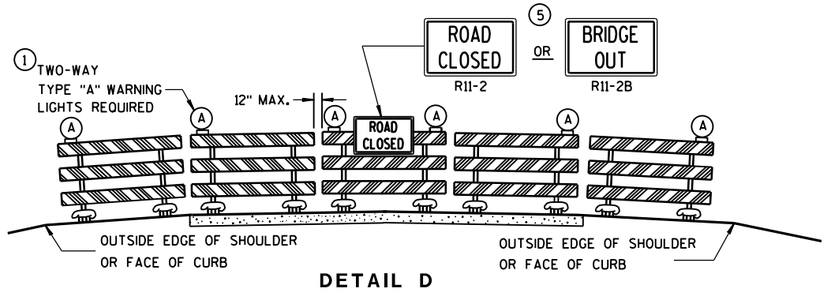
/S/ Travis Feltes
STATE TRAFFIC ENGINEER

439

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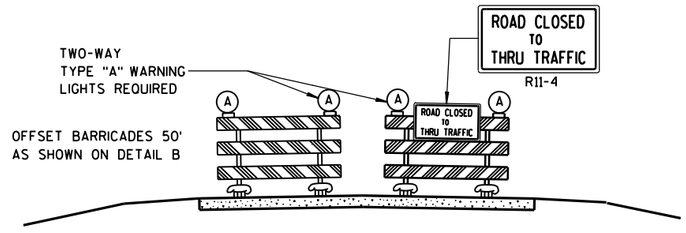
S.D.D. 15 C 2-5a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" 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.

"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 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- 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

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

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S.D.D. 15 C 2-5b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

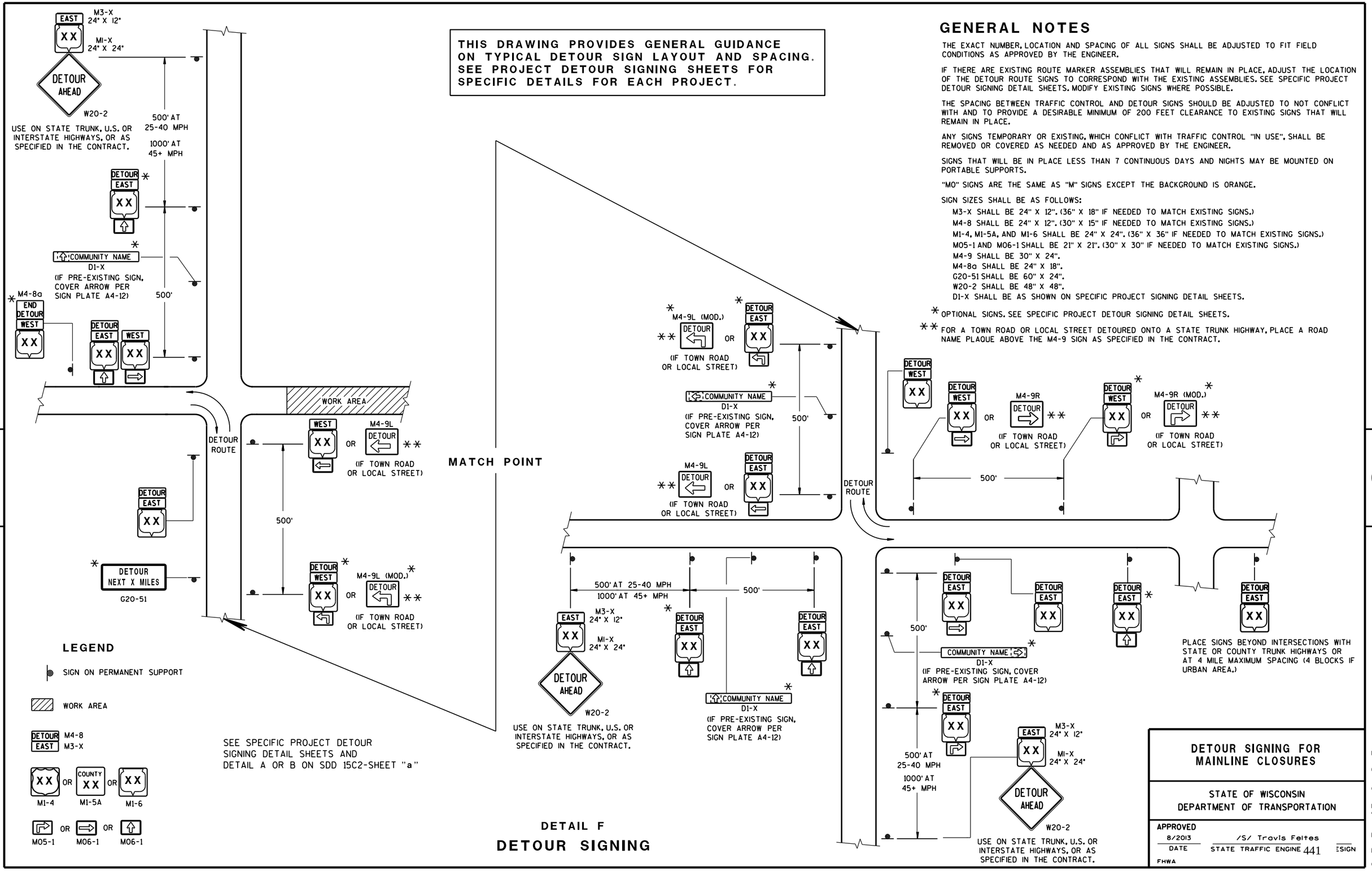
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- 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.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

DETOUR SIGNING

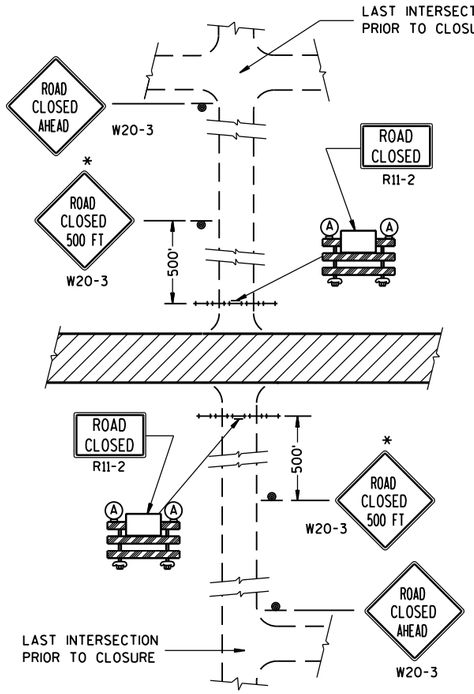
DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

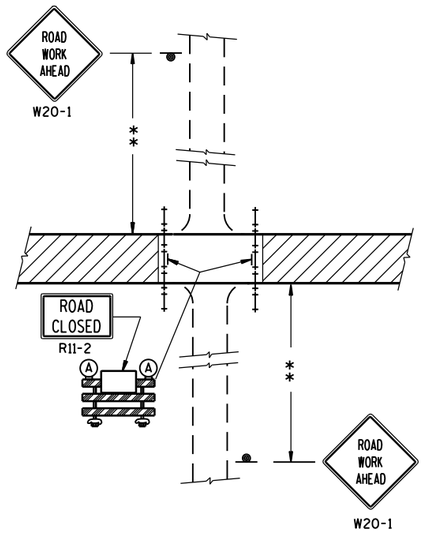
S.D.D. 15 C 2-5c

6



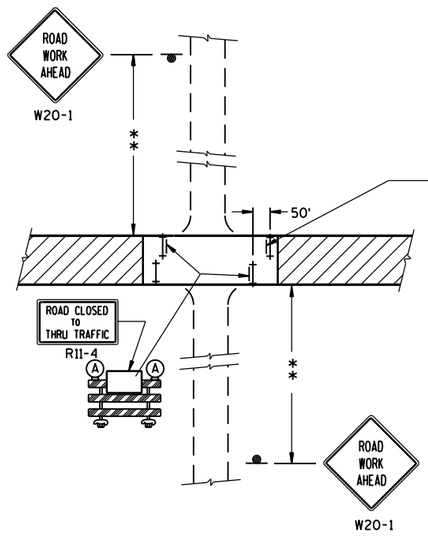
DETAIL 1

(NO ACCESS TO PROJECT)



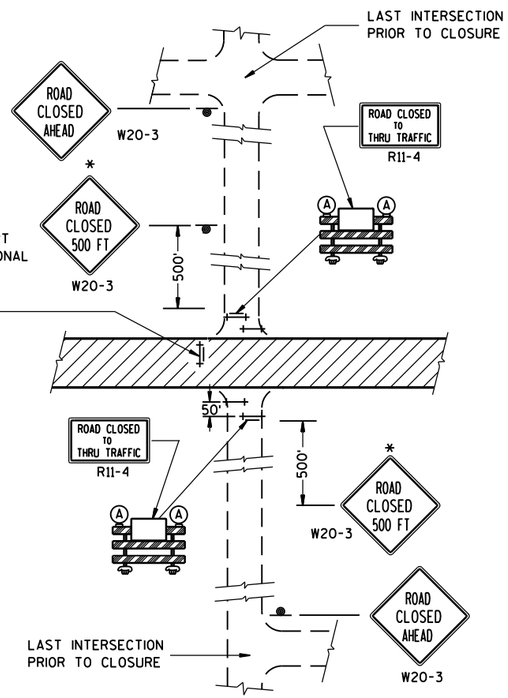
DETAIL 2

(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.

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

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

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DEPARTMENT OF TRANSPORTATION

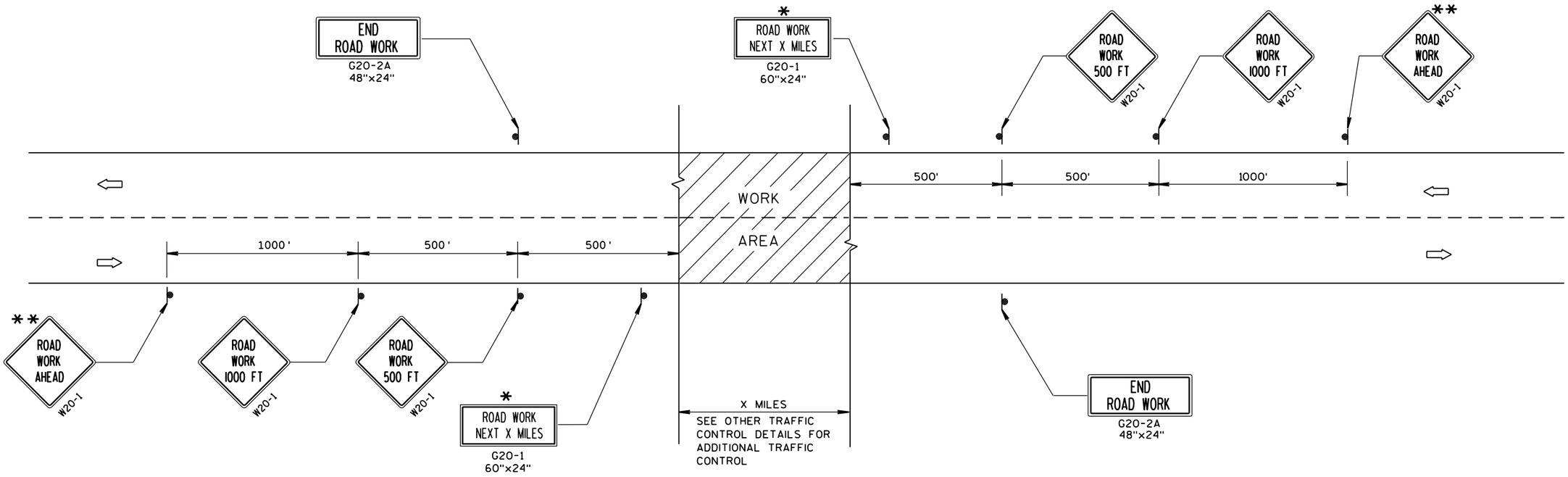
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8/2013 — DATE
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FHWA

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S.D.D. 15 C 3-2

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S.D.D. 15 C 3-2



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 MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

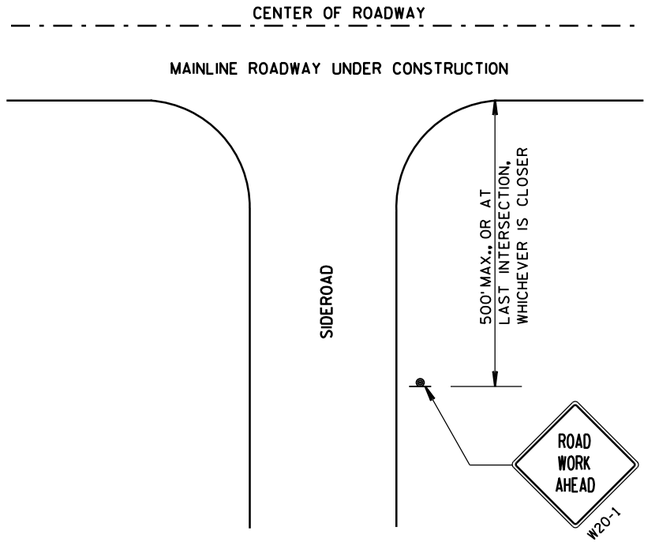
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
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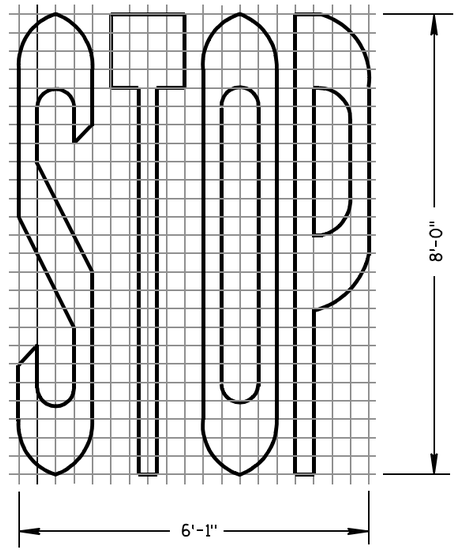
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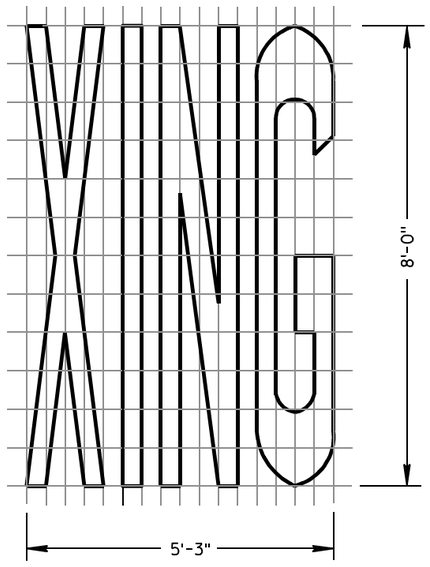
S.D.D. 15 C 4-2

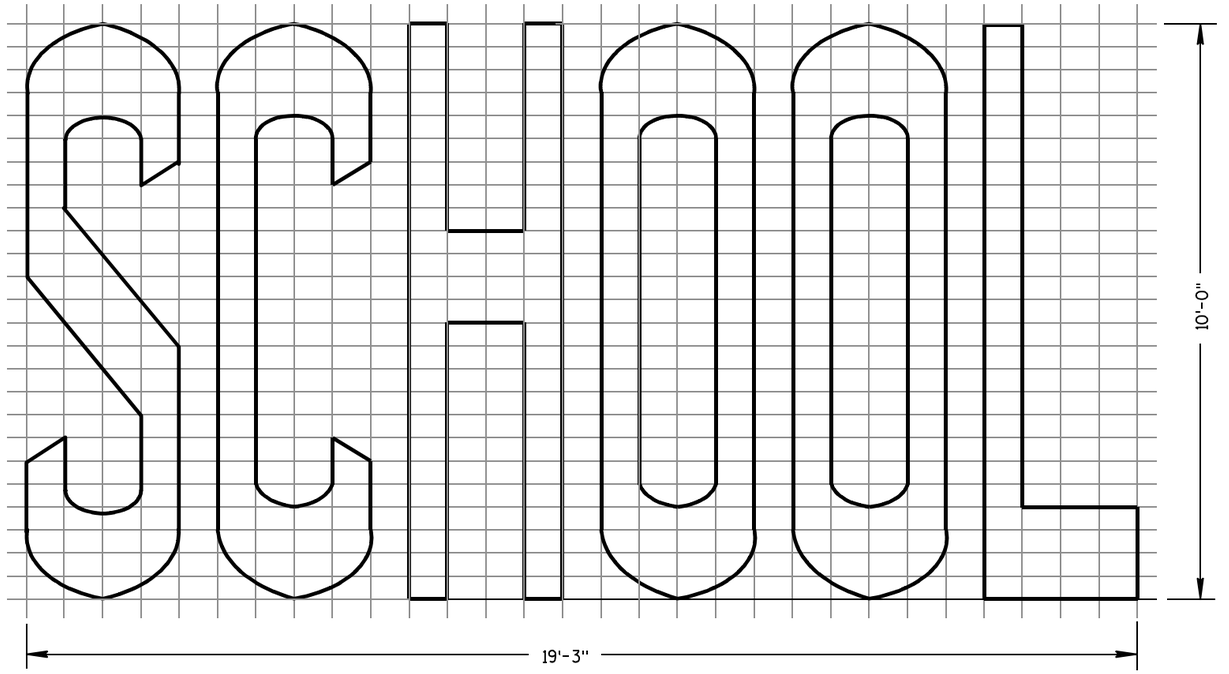
GENERAL NOTES

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.

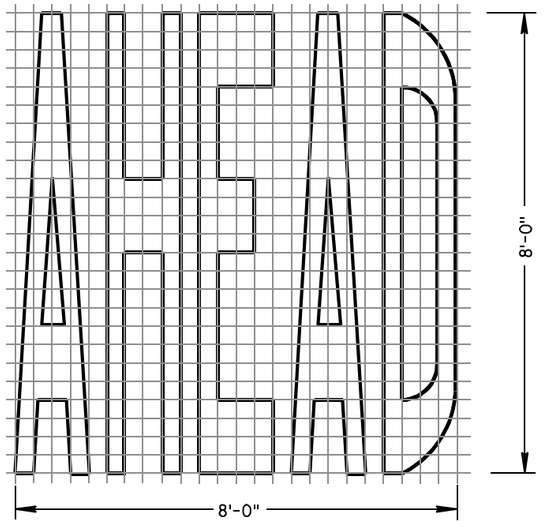
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

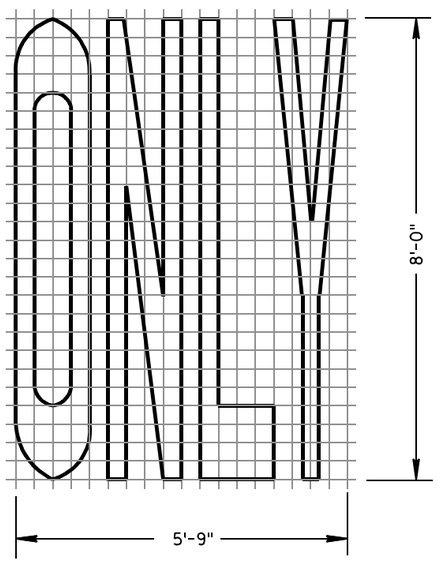


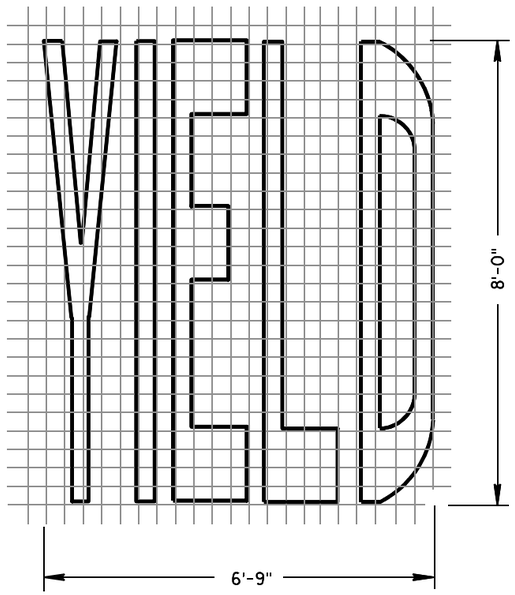


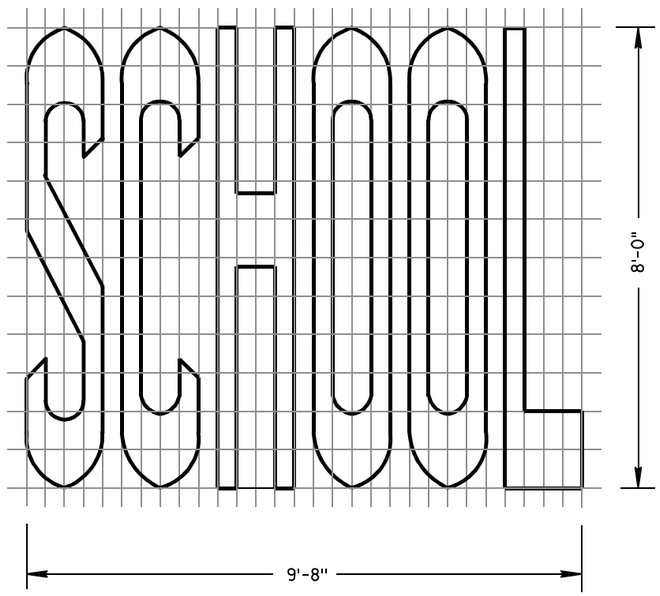


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

FHWA

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S.D.D. 15 C 7-12b

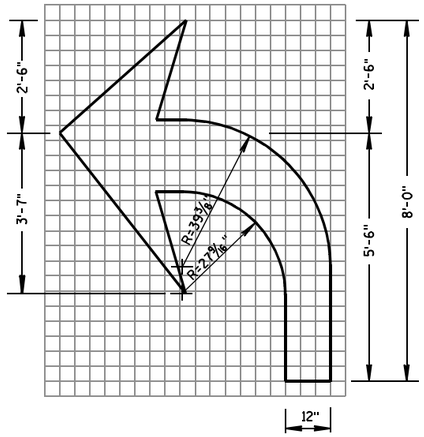
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S.D.D. 15 C 7-12b

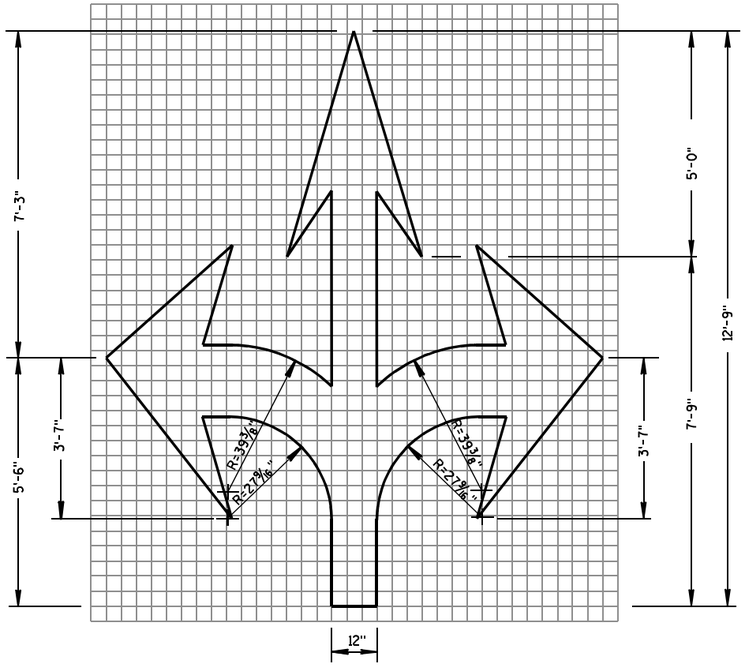
GENERAL NOTES

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.

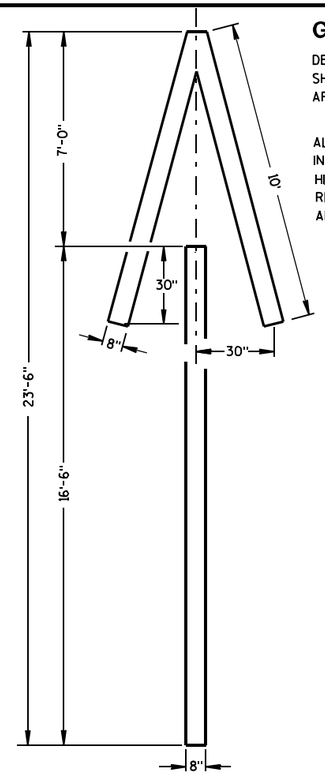
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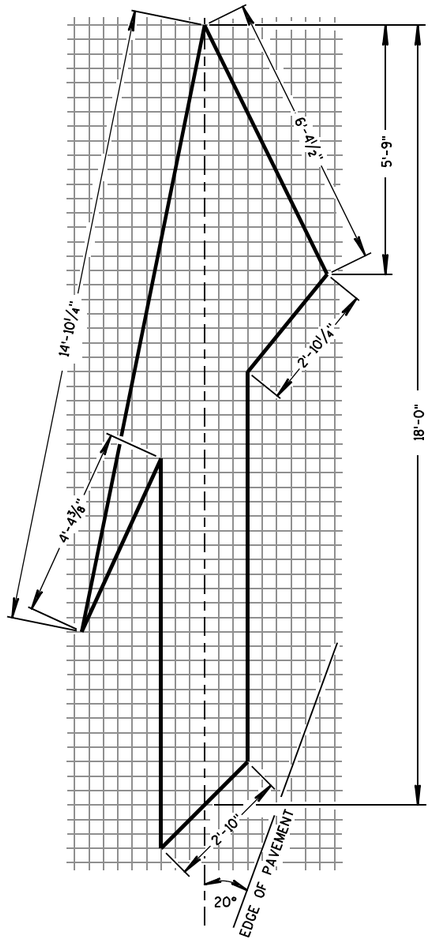
TYPE 2



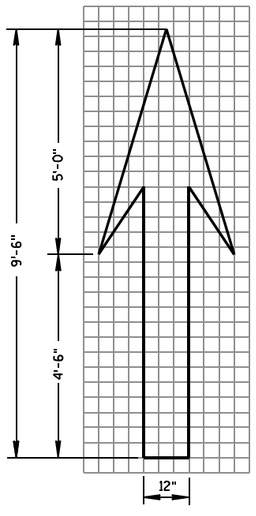
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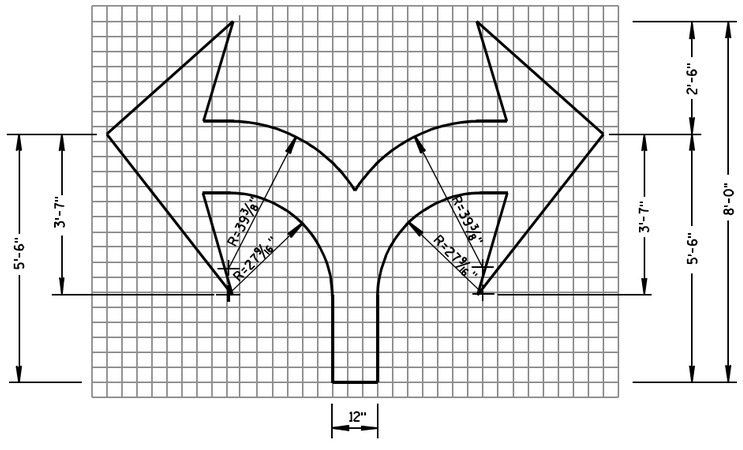
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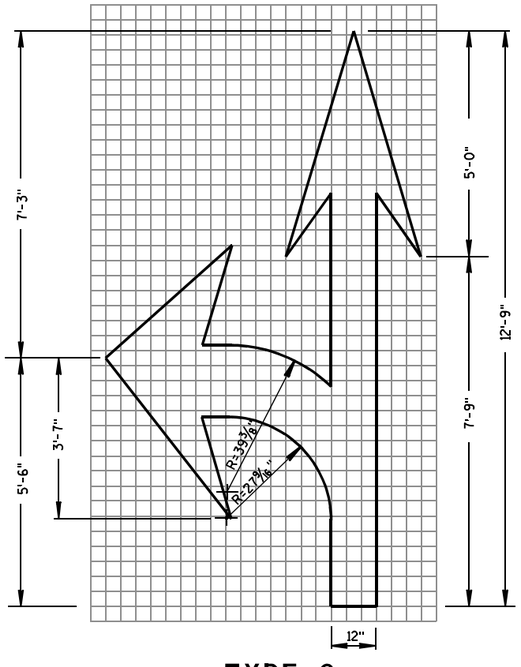
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

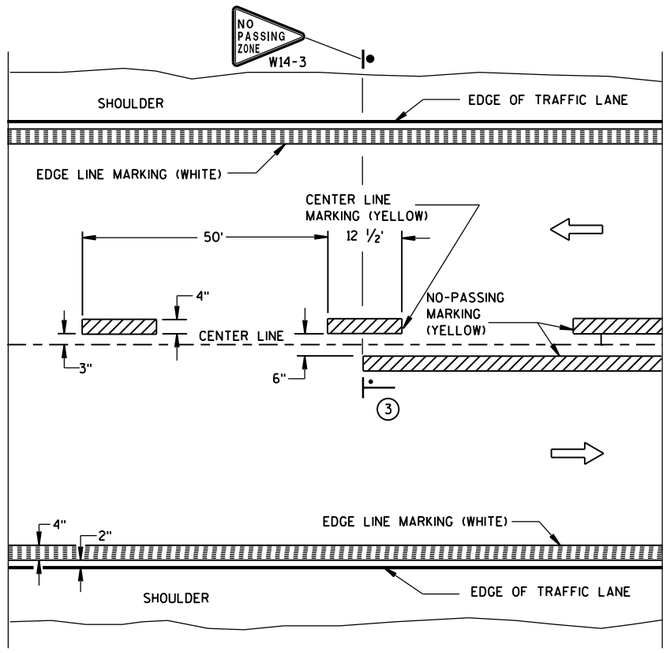
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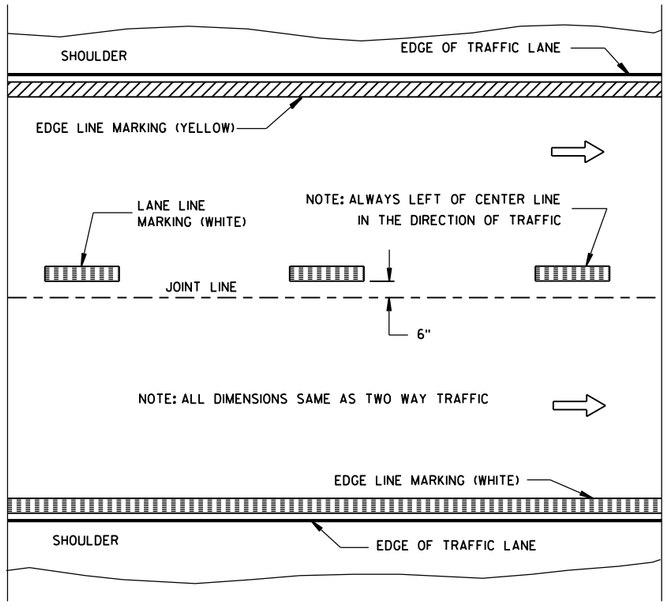
S.D.D. 15 C 7-12c

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S.D.D. 15 C 7-12c

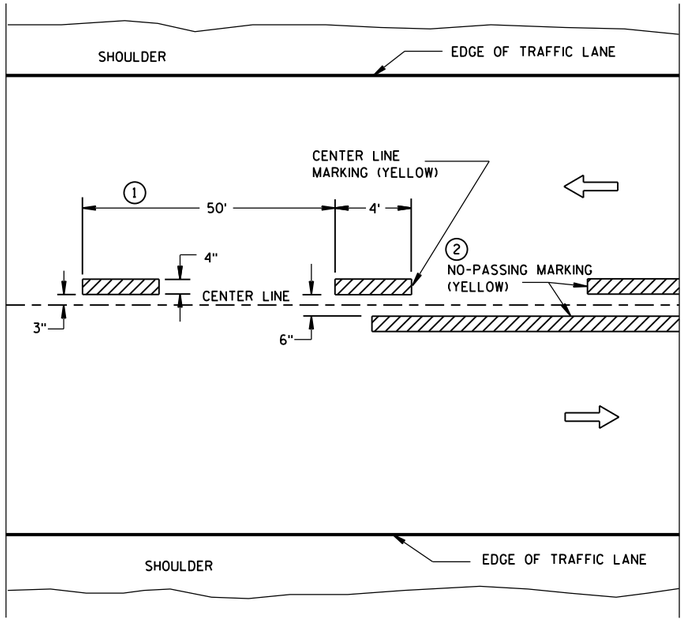


TWO WAY TRAFFIC

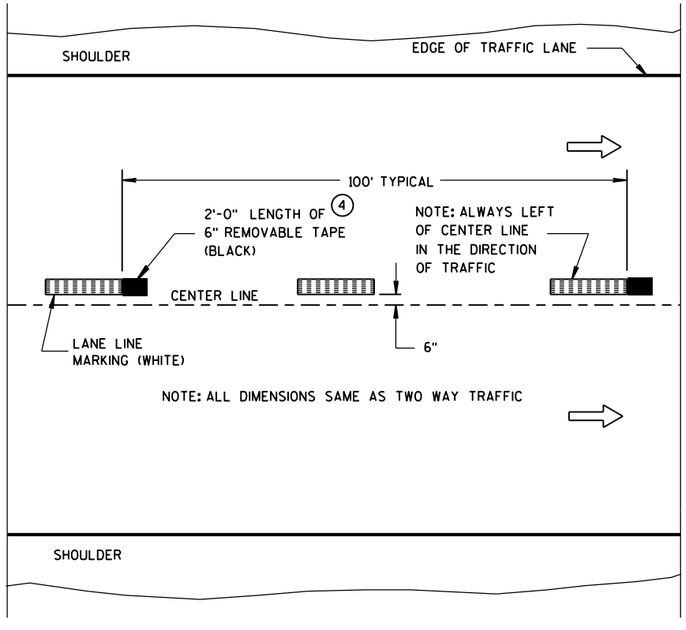


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

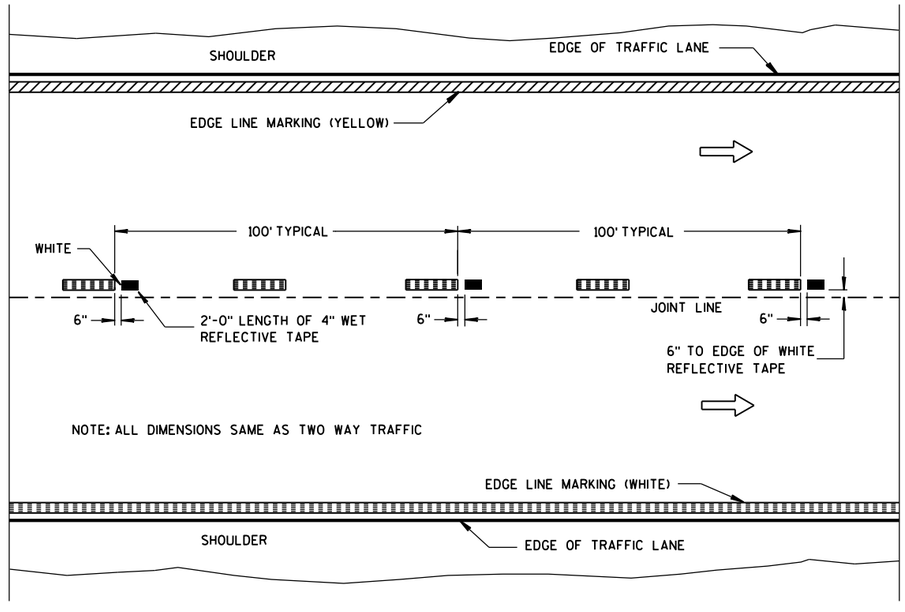
GENERAL NOTES

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

5-13-2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC E

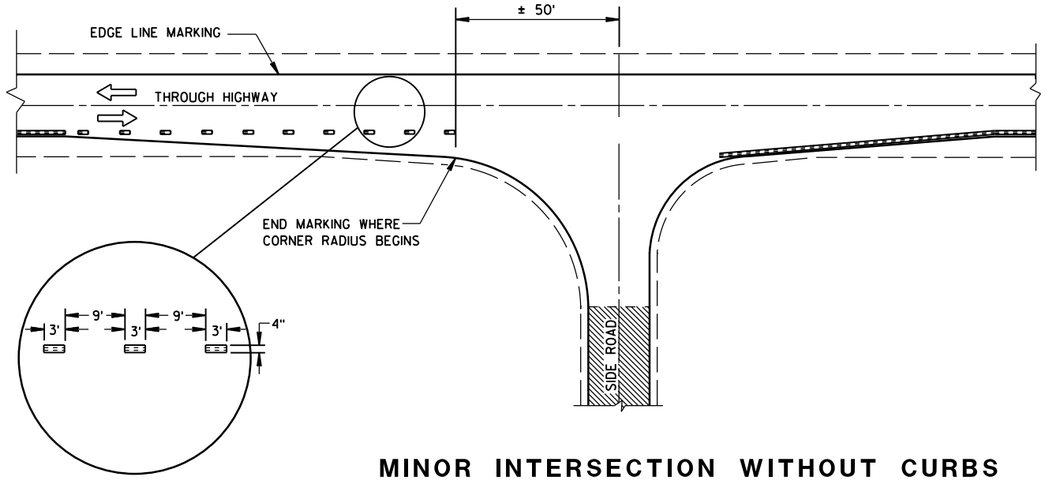
FHWA

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S.D.D. 15 C 8-16a

6

S.D.D. 15 C 8-16a



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.

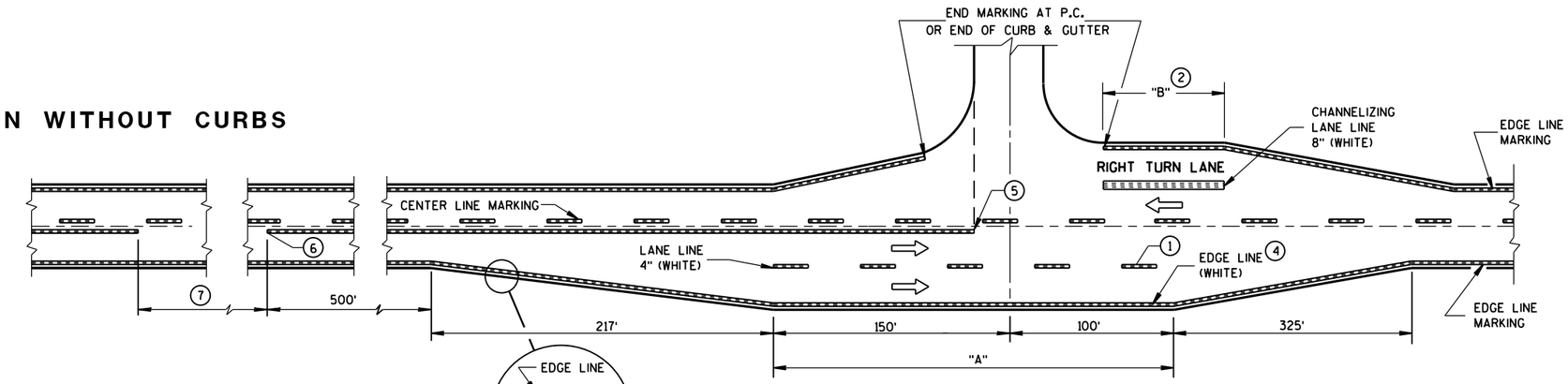
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

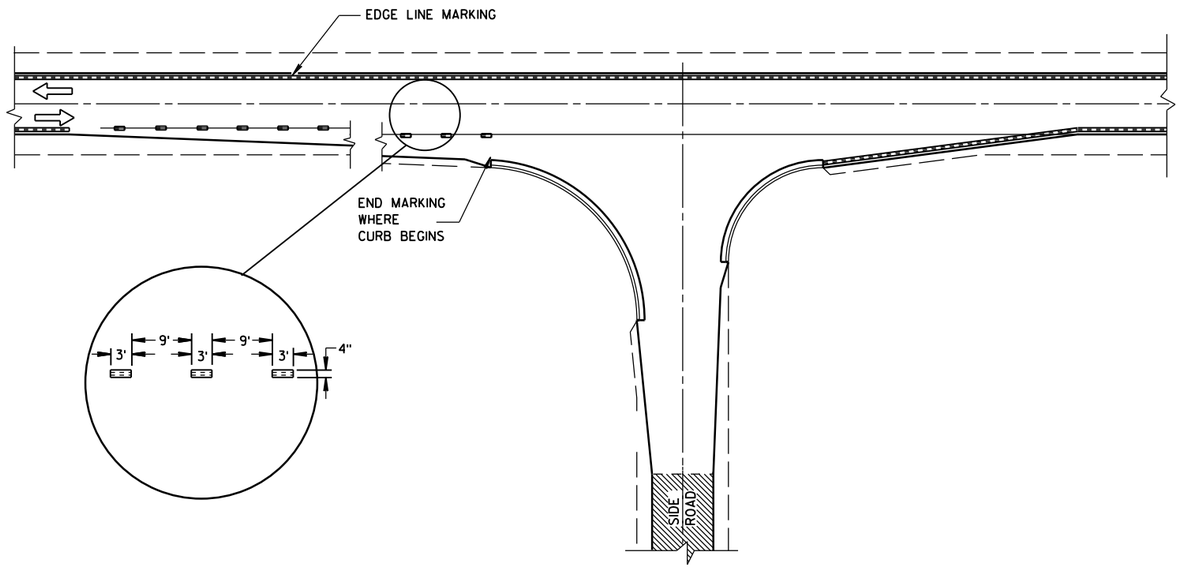
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



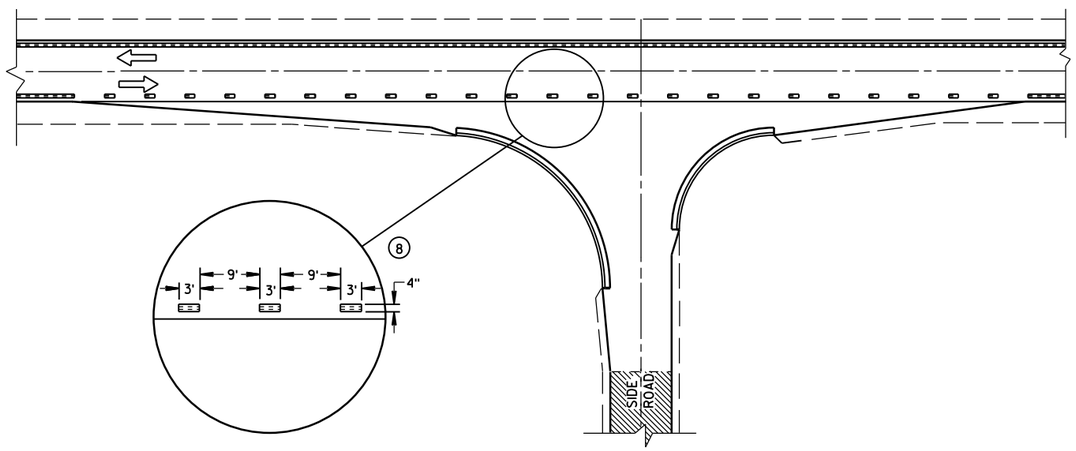
MAJOR INTERSECTIONS

(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)

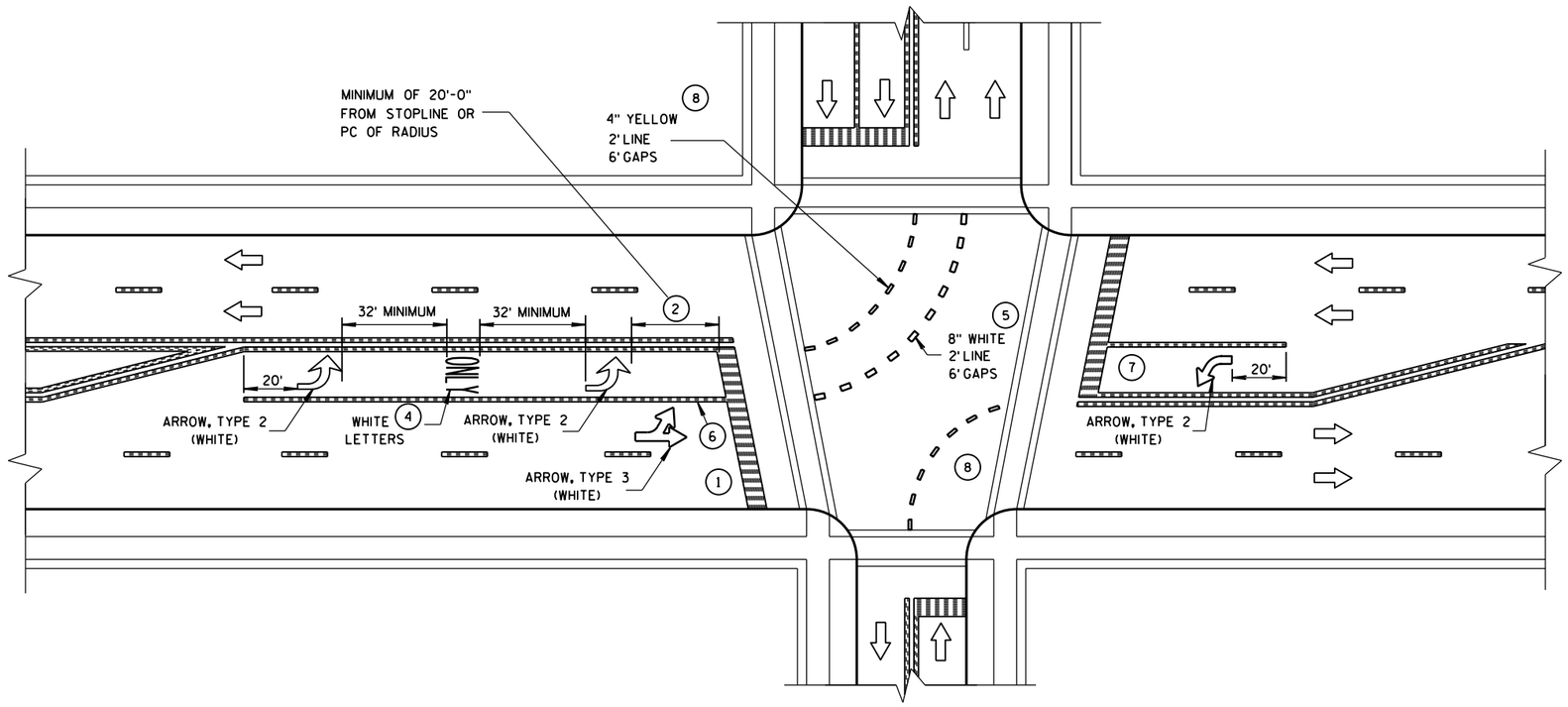
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 15 C 8-16b

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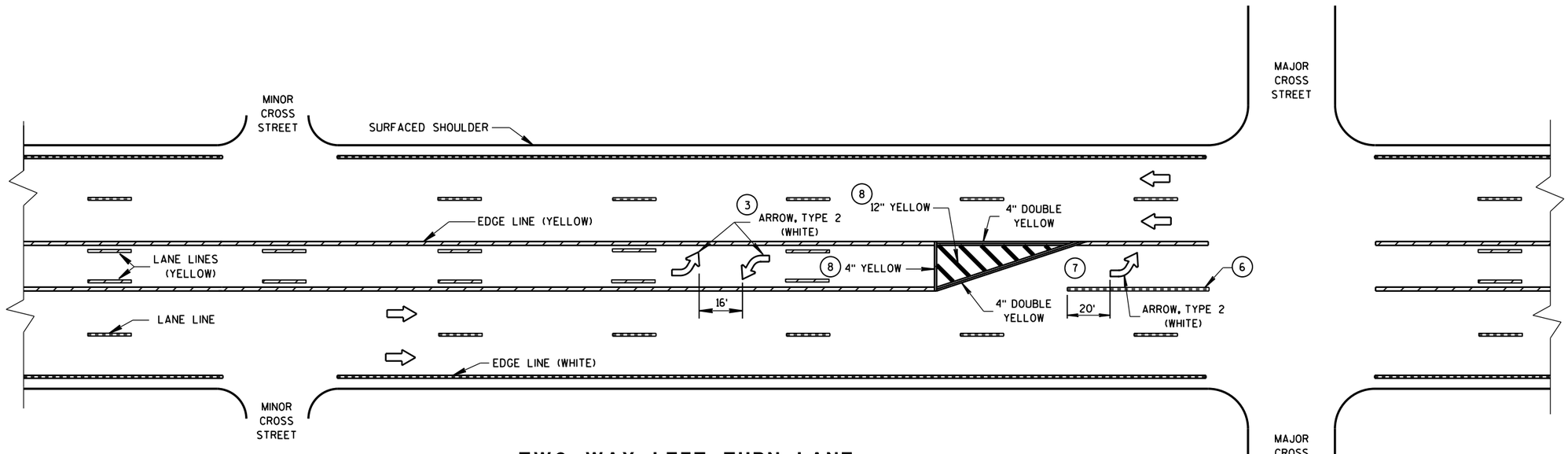
S.D.D. 15 C 8-16b



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 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET 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 FEET.
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)

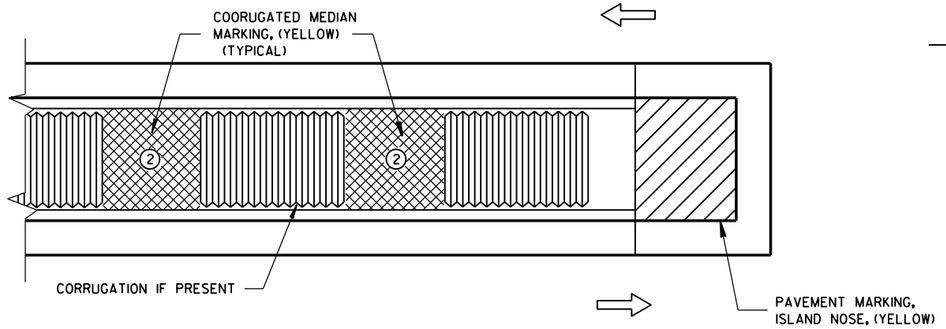
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

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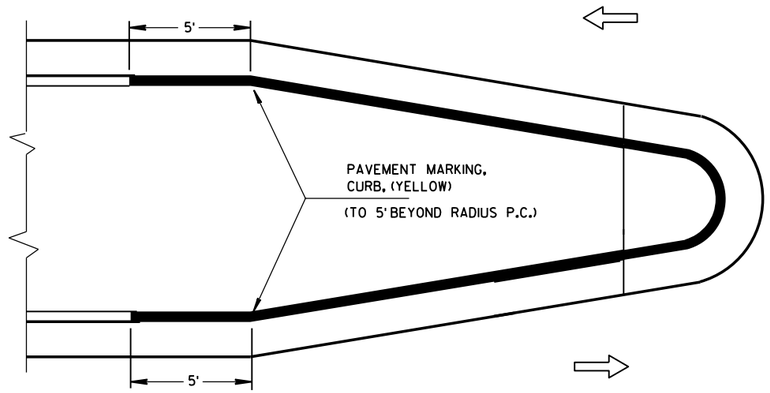
S.D.D. 15 C 8-16e

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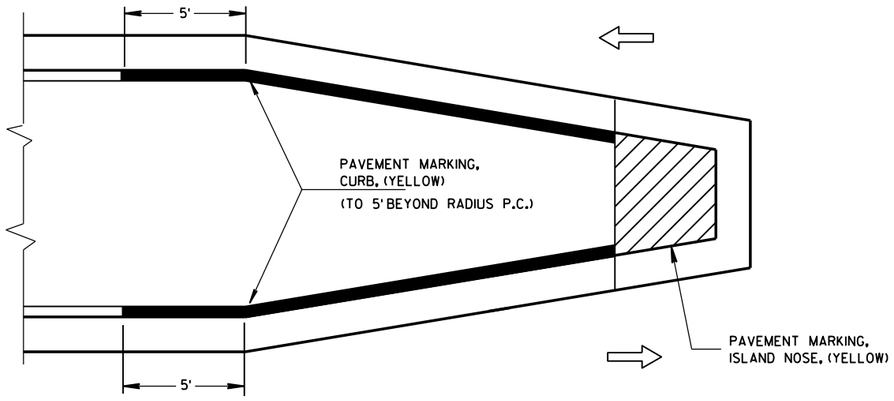
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

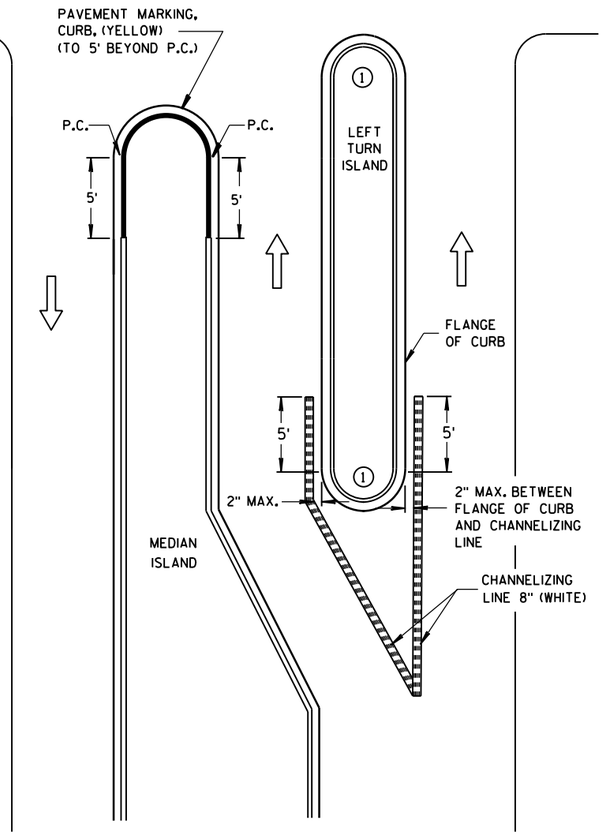


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

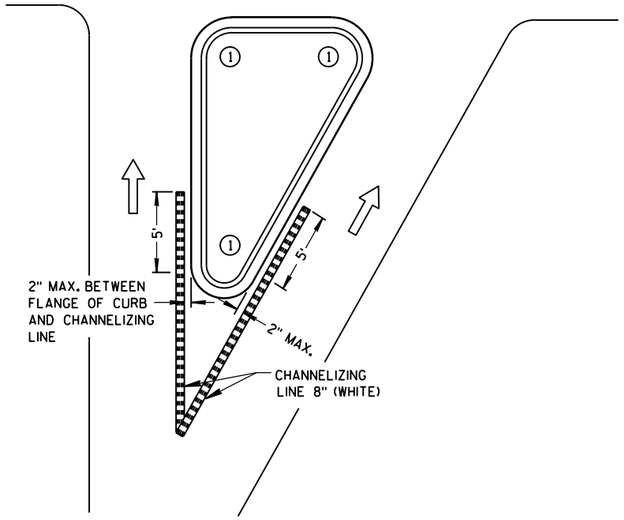


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. 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

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-16f

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S.D.D. 15 C 8-16f

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

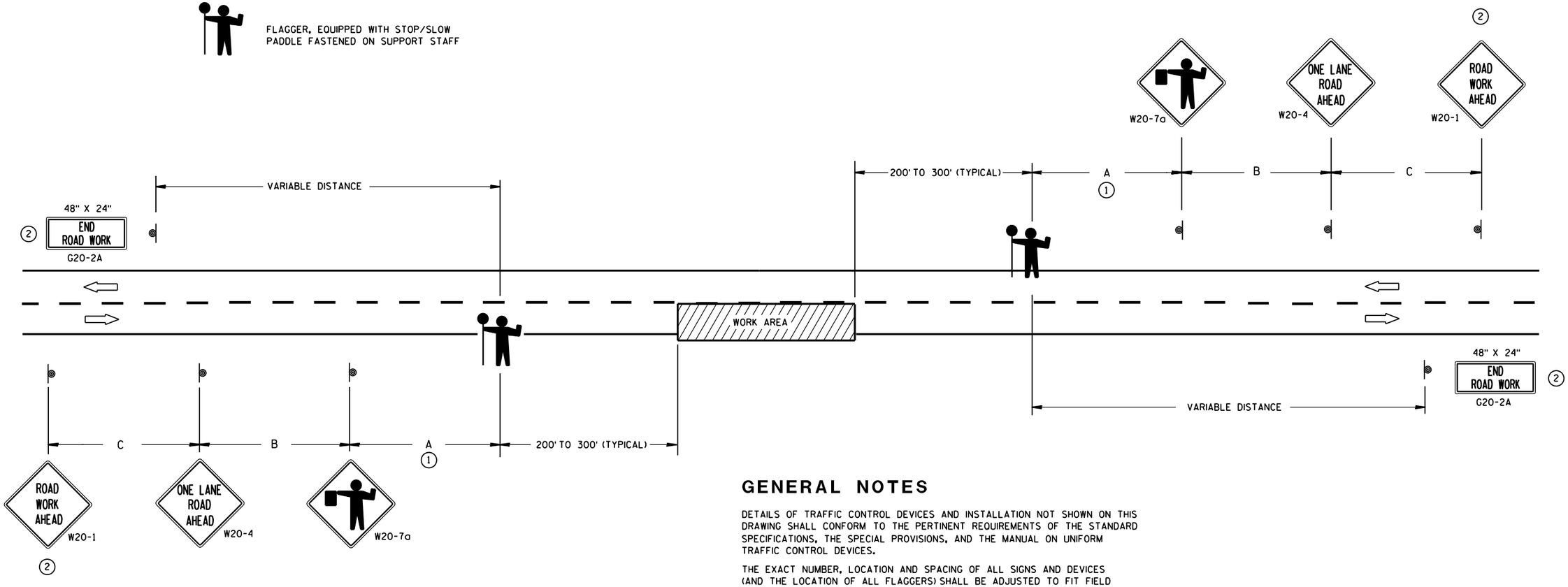
SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



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, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

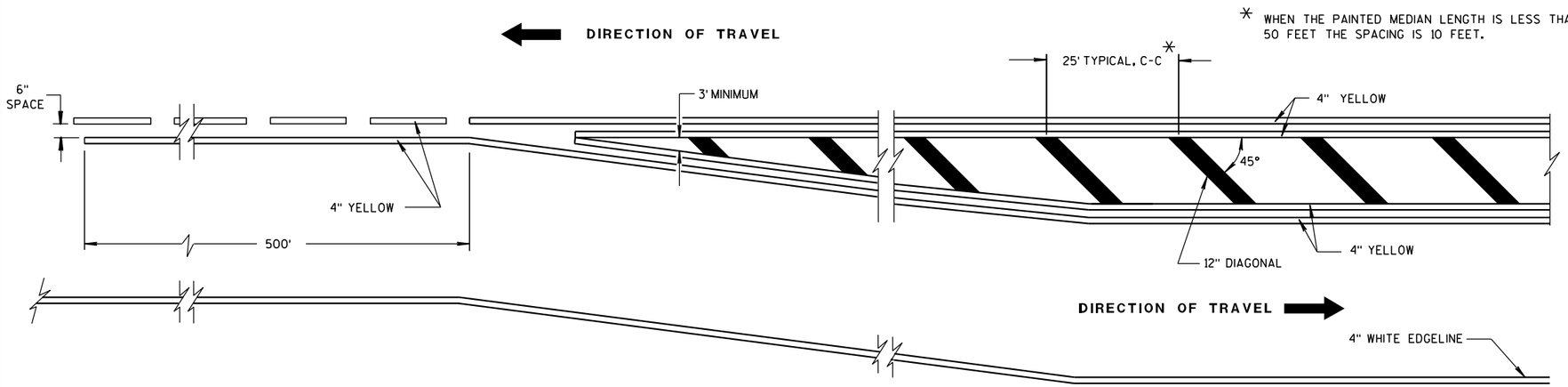
APPROVED
8/2013
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
DESIGN
FHWA

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S.D.D. 15 C 12-4

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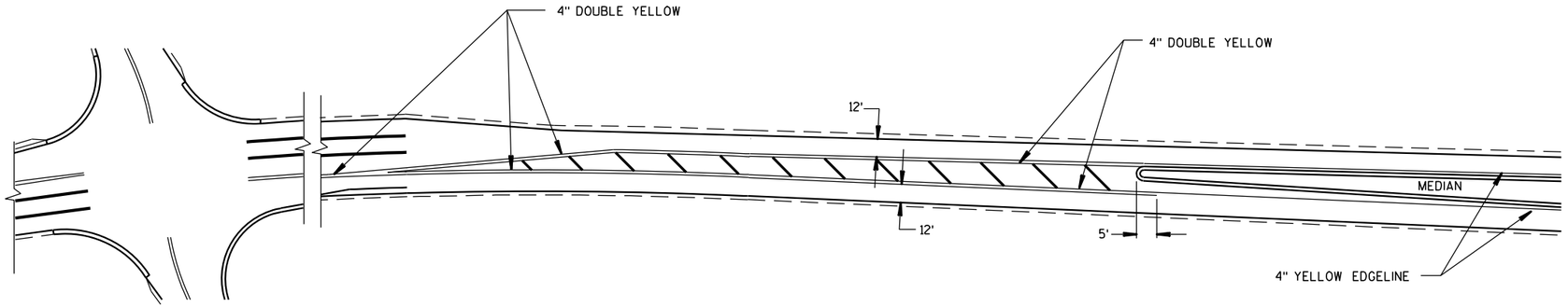
S.D.D. 15 C 12-4



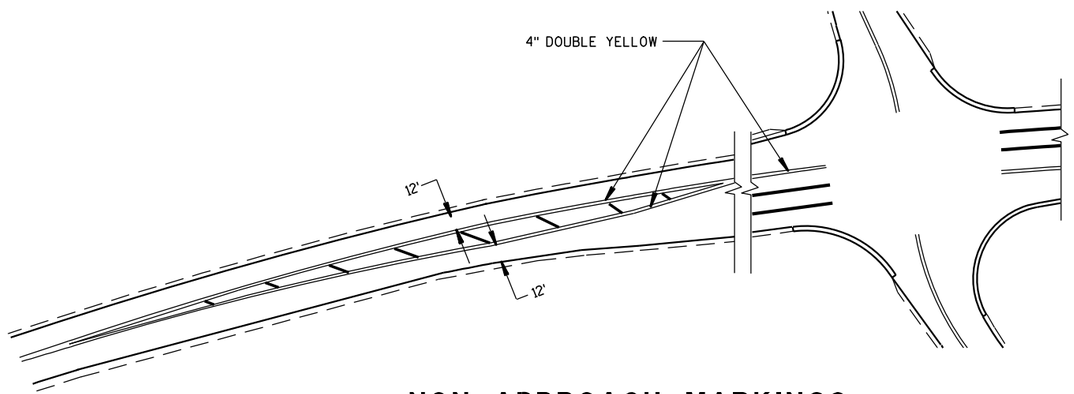
MEDIAN ISLAND DETAIL

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

6

6

S.D.D. 15 C 18-3

S.D.D. 15 C 18-3

MEDIAN ISLAND MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

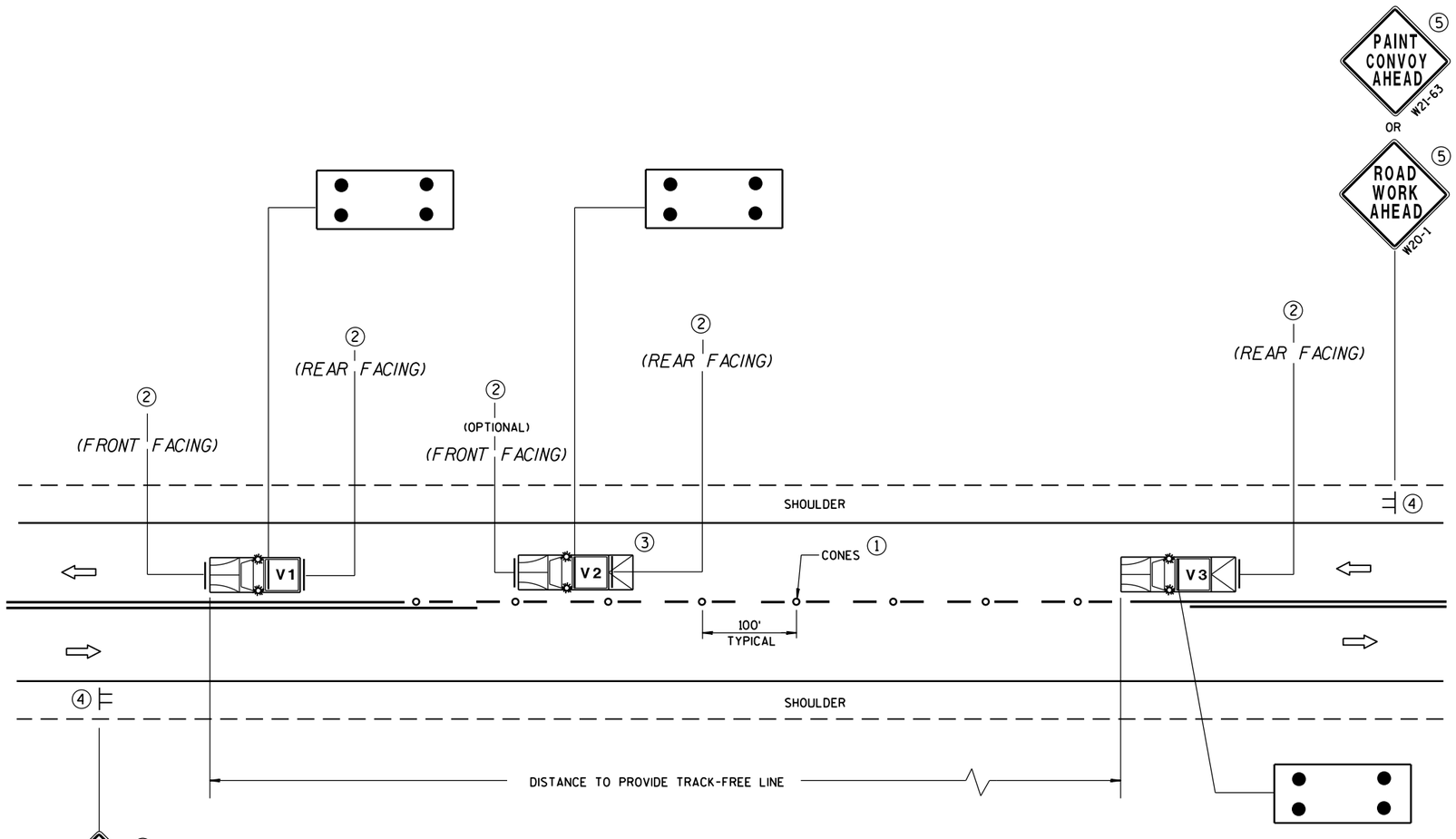
APPROVED

2-5-09 DATE

/S/ Thomas N. Nothohm
STATE TRAFFIC ENGINEER

451 IGN

FHWA



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY 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.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. 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.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(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 APPROXIMATELY 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 TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- CONES
- FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/3/2013 DATE FHWA	/S/ Travis Feltes STATE TRAFFIC E

6

S.D.D. 15 C 19-2a

6

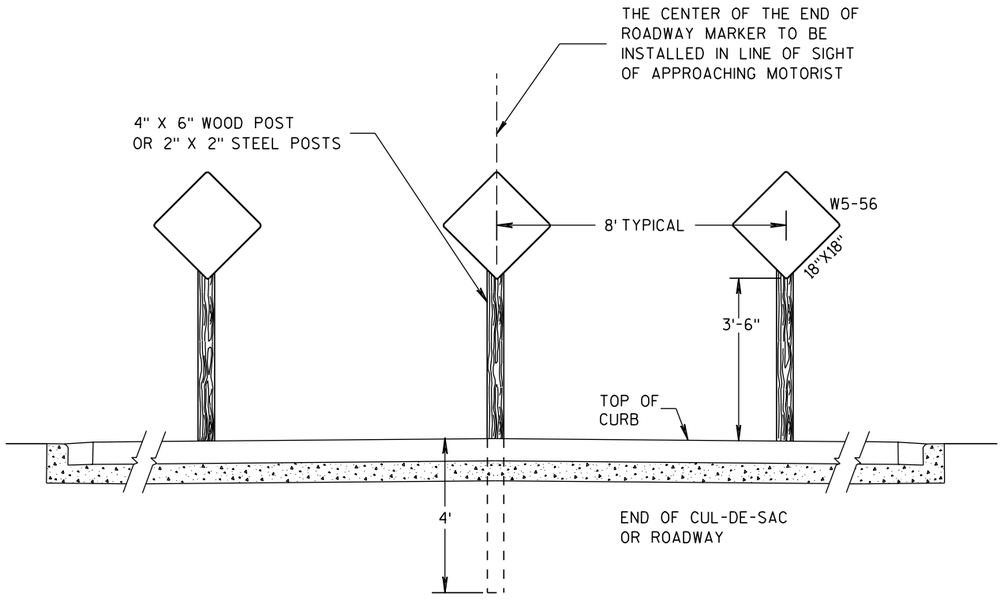
S.D.D. 15 C 19-2a

GENERAL NOTES

SIGN LOCATIONS SHOWN ARE TYPICAL PLACEMENT AND MAY BE ADJUSTED BY THE ENGINEER AS FIELD CONDITIONS DICTATE.

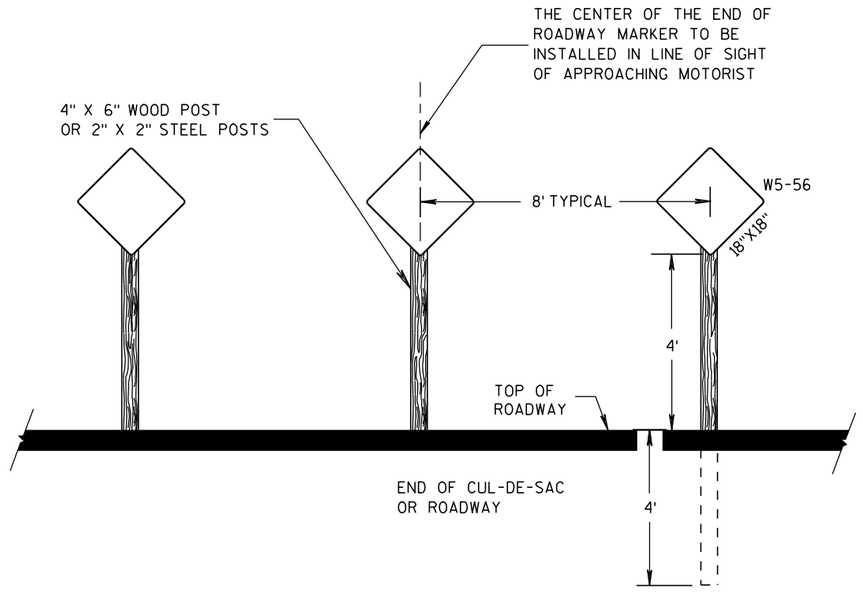
THE MINIMUM NUMBER OF END-OF-ROADWAY SIGNS ARE THREE (AS SHOWN). ADDITIONAL END-OF-ROADWAY SIGNS MAY BE INSTALLED AS FIELD CONDITIONS DICTATE. (SEE SIGNING PLAN).

WHEN BEAMGUARD IS REQUIRED, PLACE END-OF-ROADWAY SIGNING BEHIND BEAMGUARD.



TYPICAL URBAN SIGN INSTALLATION

(WITH CURB & GUTTER)



TYPICAL RURAL SIGN INSTALLATION

(WITHOUT CURB & GUTTER)

6

S.D.D. 15 C 26-2

END-OF-ROADWAY SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/1/2011 — DATE

/S/ Thomas N. Nothohm — STATE TRAFFIC ENGINEER

FHWA

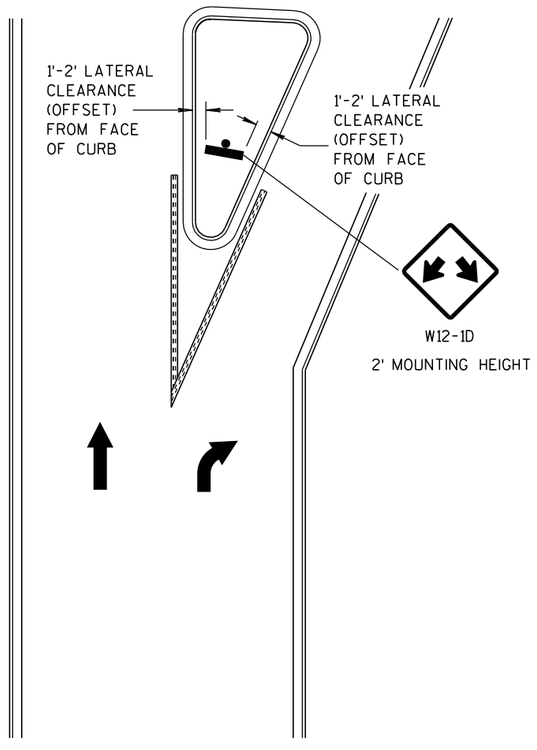
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S.D.D. 15 C 26-2

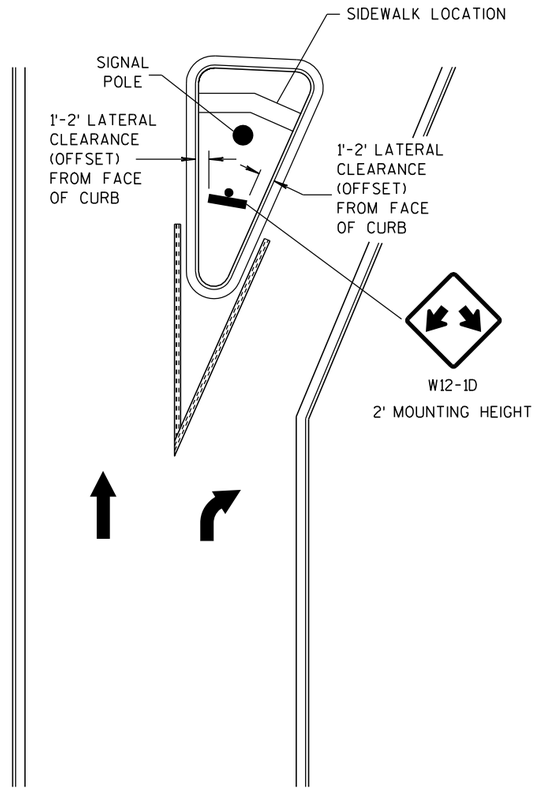
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

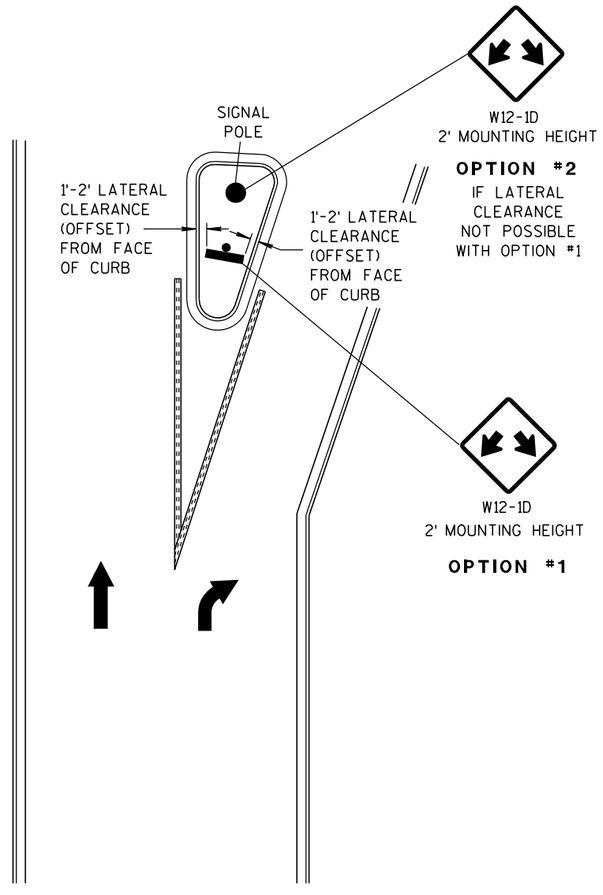
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

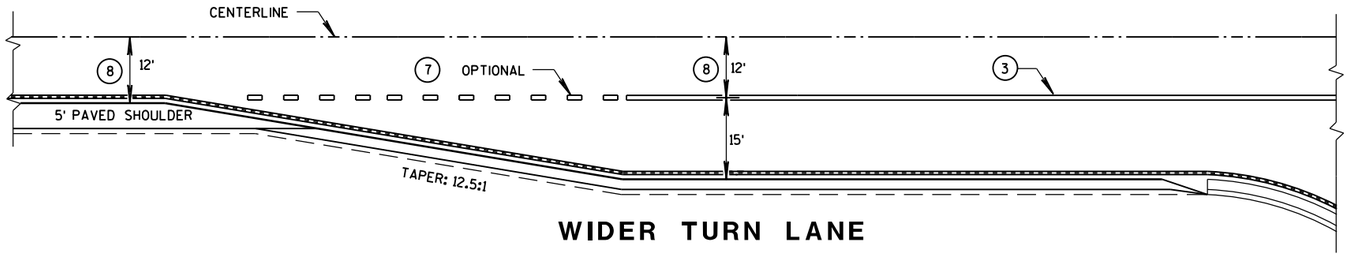
DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10-22-08 DATE	/S/ Thomas N. Nothdurft STATE TRAFFIC ENGINEER
FHWA	454 IGN

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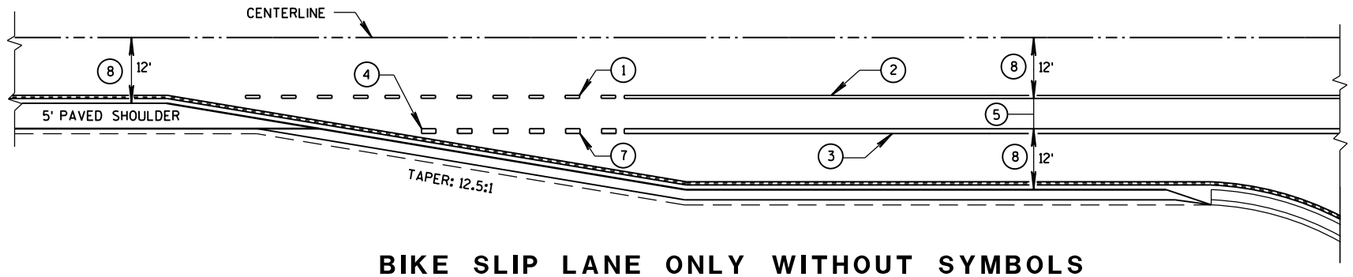
S.D.D. 15 C 27-1

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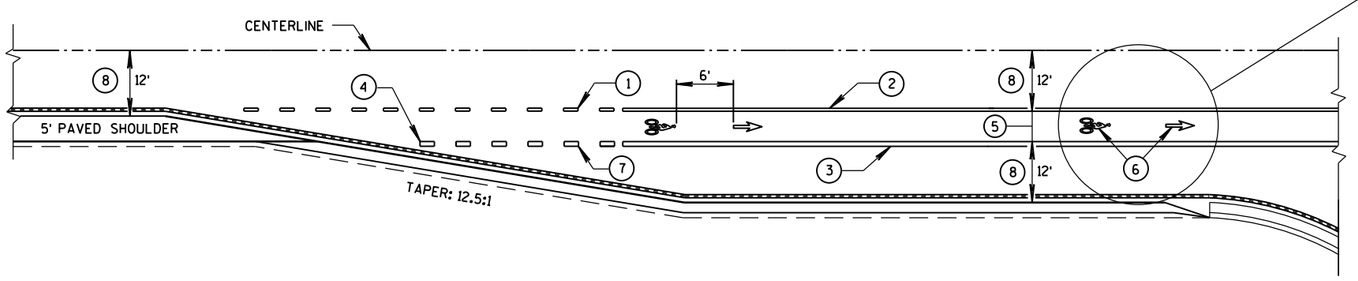
S.D.D. 15 C 27-1



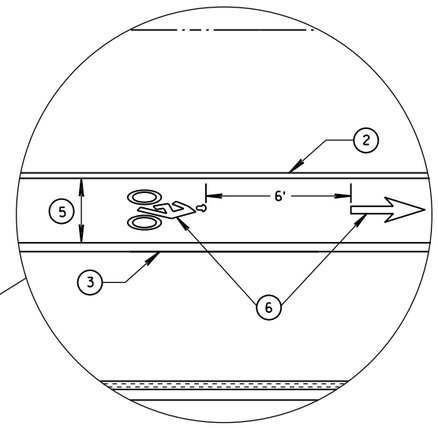
WIDER TURN LANE



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. 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.
8. REFER TO CONTRACT PLANS.

6

S.D.D. 15 C 29-3a

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S.D.D. 15 C 29-3a

BICYCLE LANE MARKING

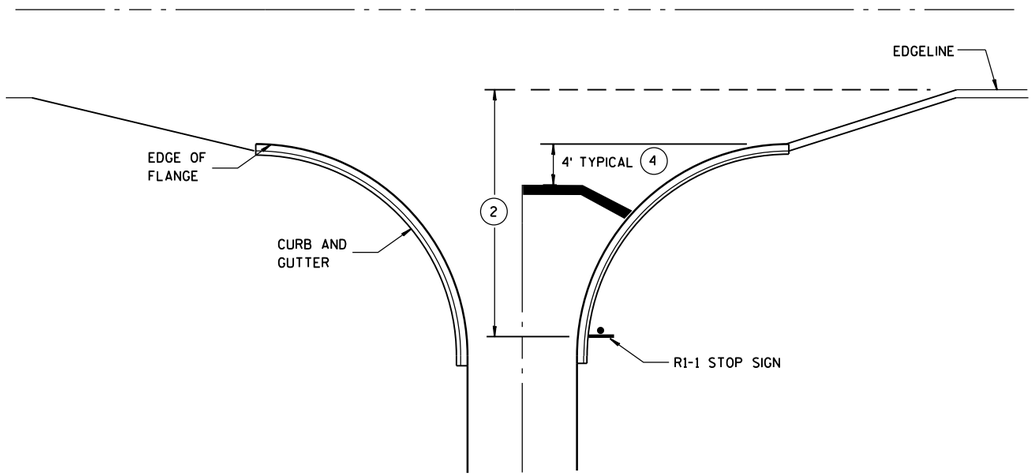
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

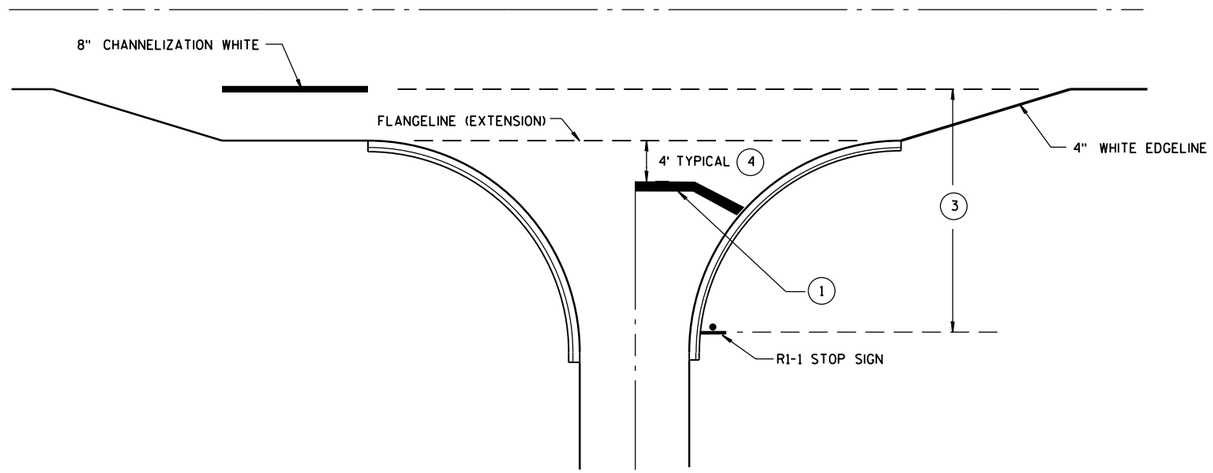
4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

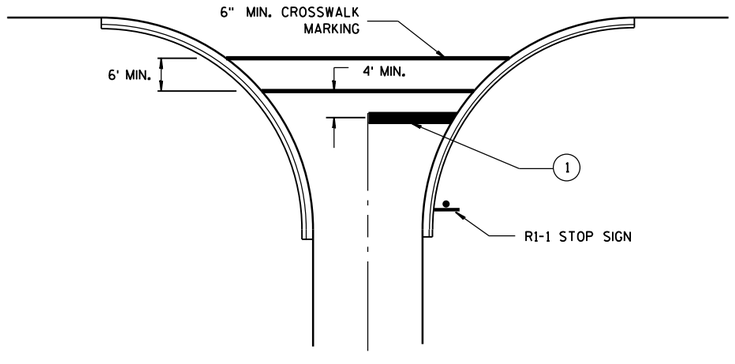
FHWA



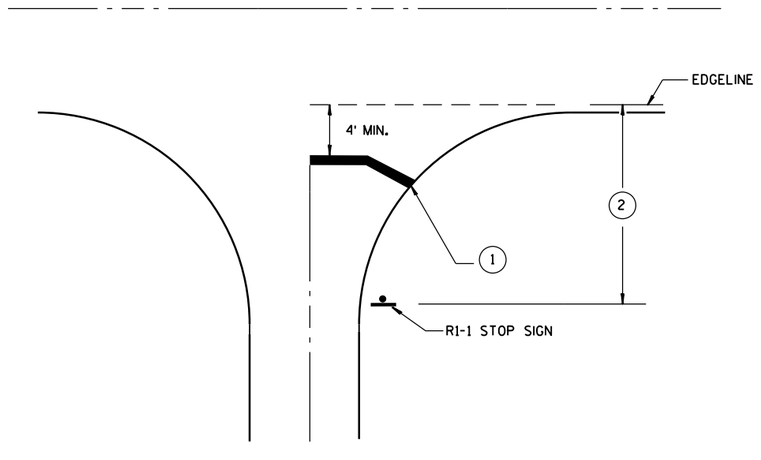
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1

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.

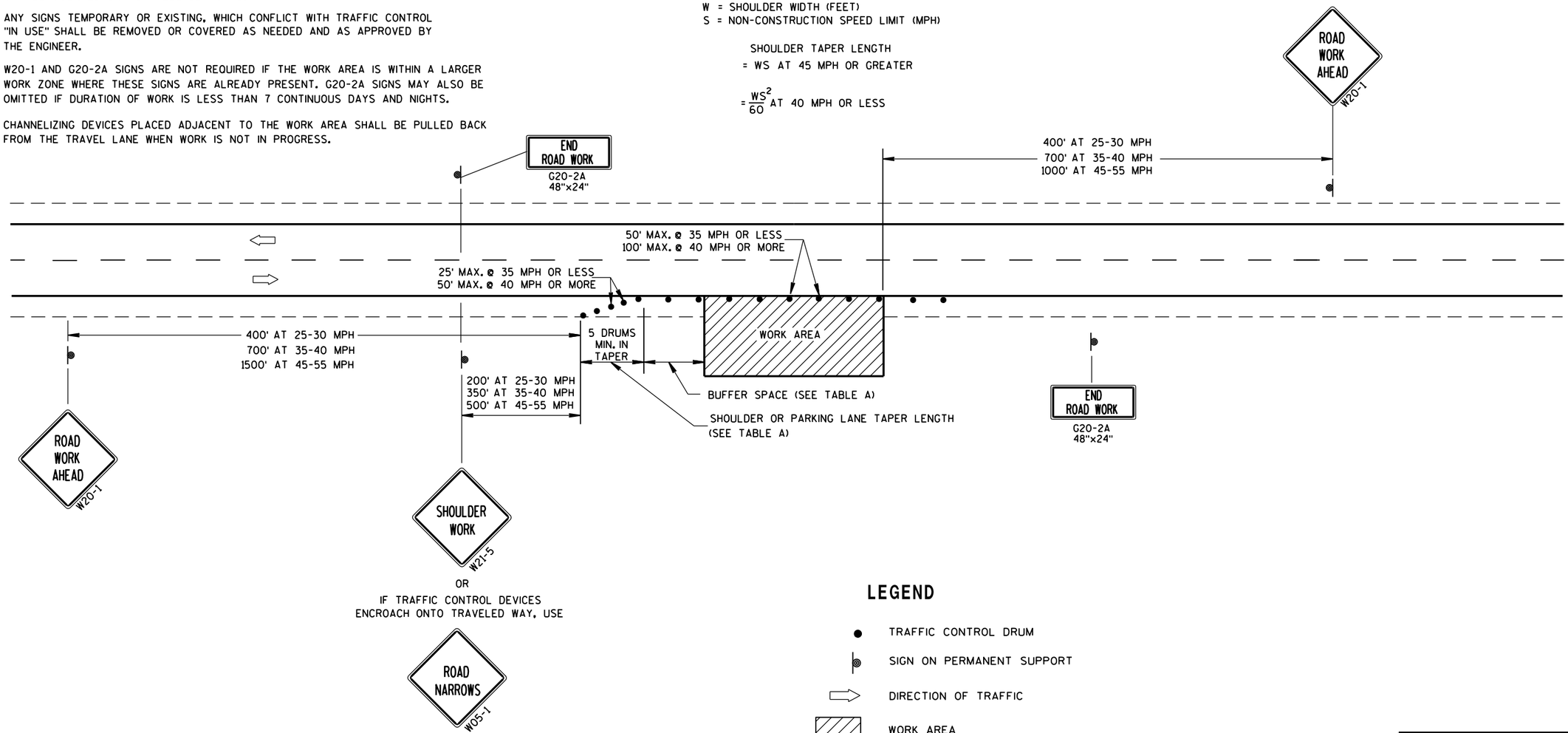
TABLE A

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
= WS AT 45 MPH OR GREATER

$= \frac{WS^2}{60}$ AT 40 MPH OR LESS



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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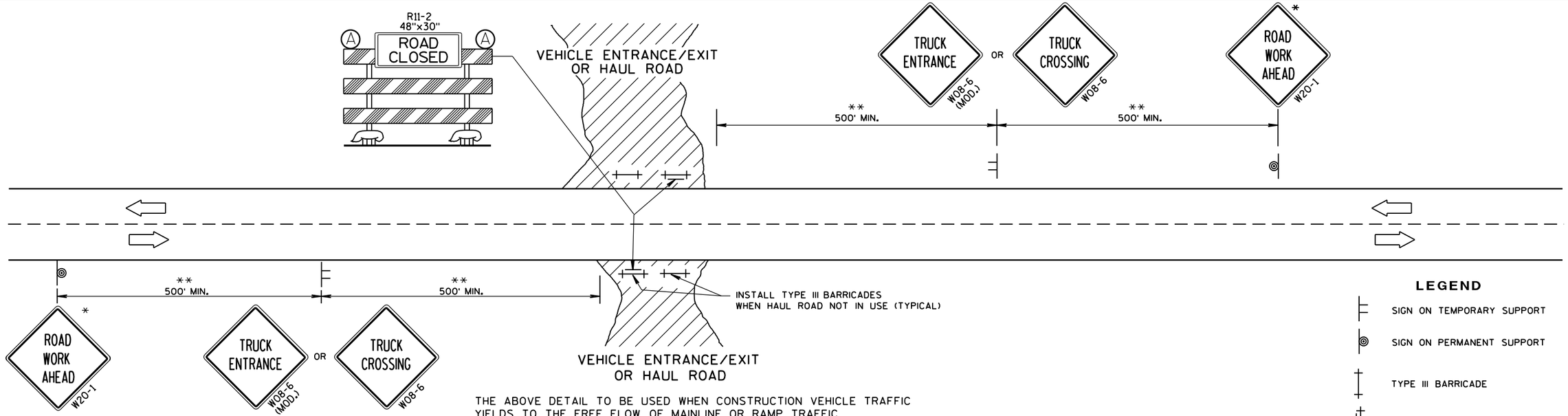
8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

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S.D.D. 15 D 28-2



THE ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF 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 FEET SHOWN IS FOR ROADWAYS WITH A NON-CONSTRUCTION REGULATORY SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FEET. FOR 25-30 MPH, USE 200 FEET. USE 1000 FEET/1500 FEET FOR EXPRESSWAY/FREEWAY.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

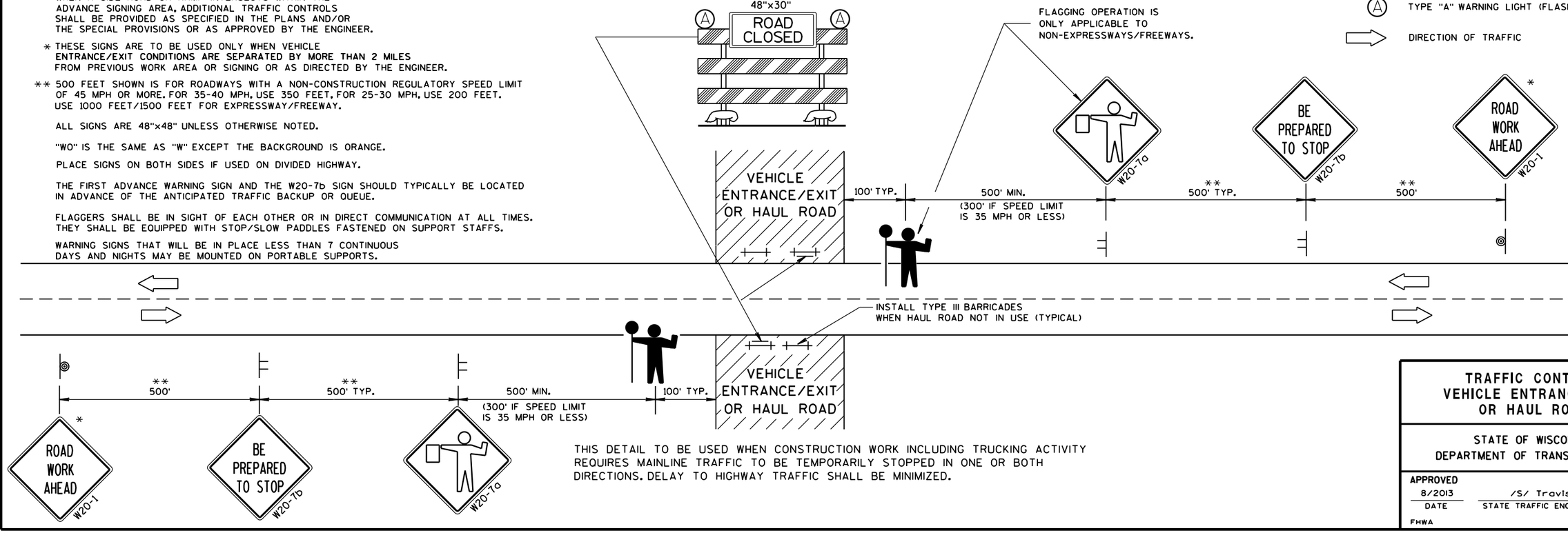
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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.



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

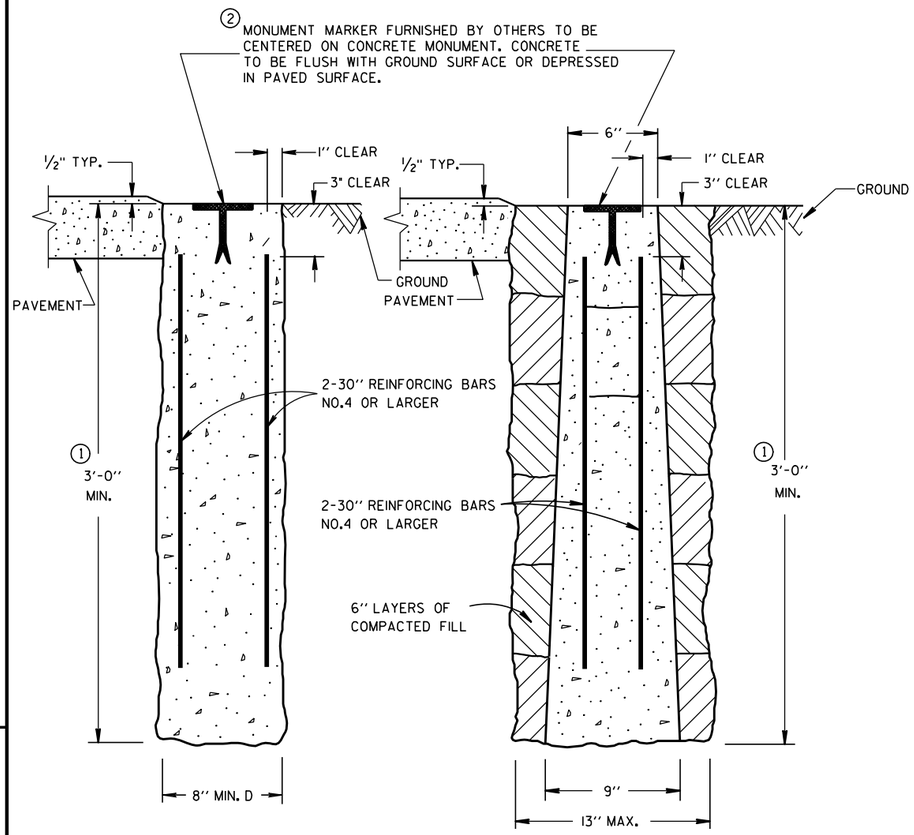
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8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
458
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S.D.D. 15 D 29-3

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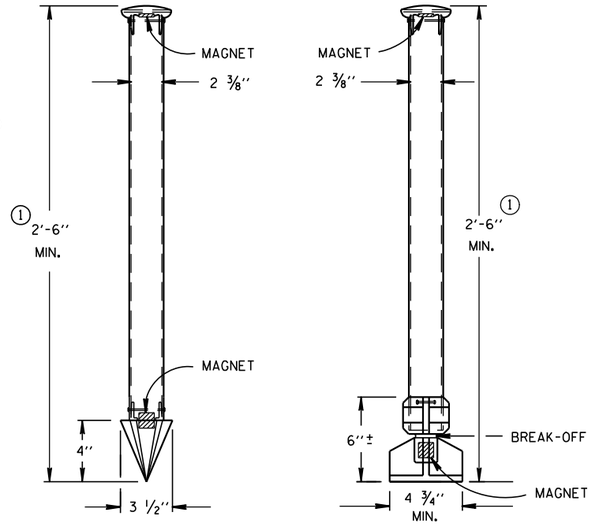
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CAST-IN-PLACE PRECAST

CONCRETE MONUMENTS

TYPE A



TYPE C DRIVE-IN MONUMENT

TYPE D BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

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.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

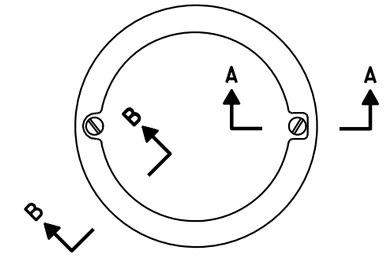
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

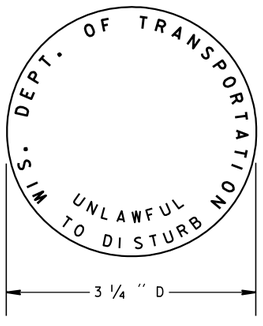
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

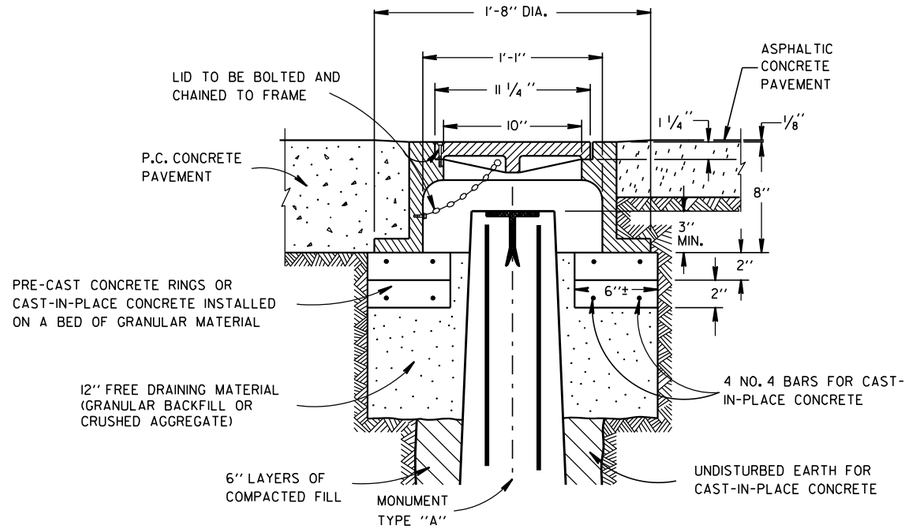
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

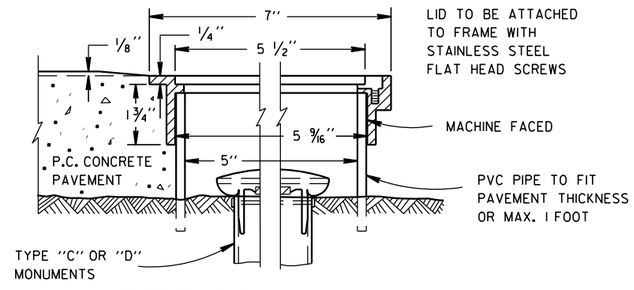


② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MOUNMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/22/1999 DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

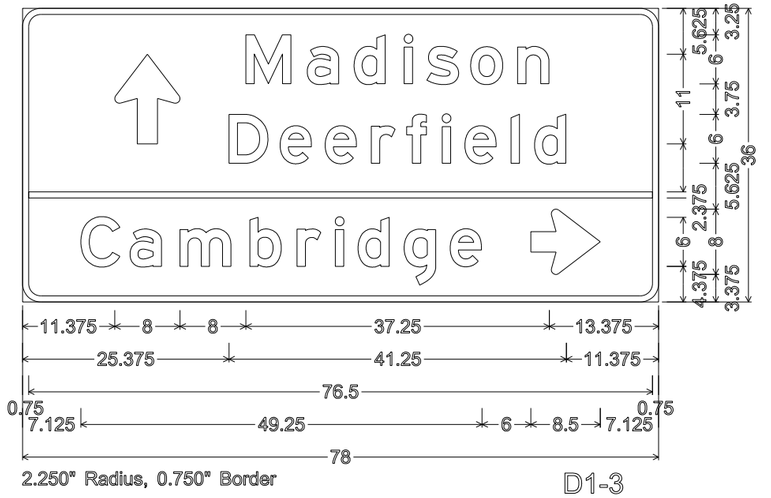
FHWA

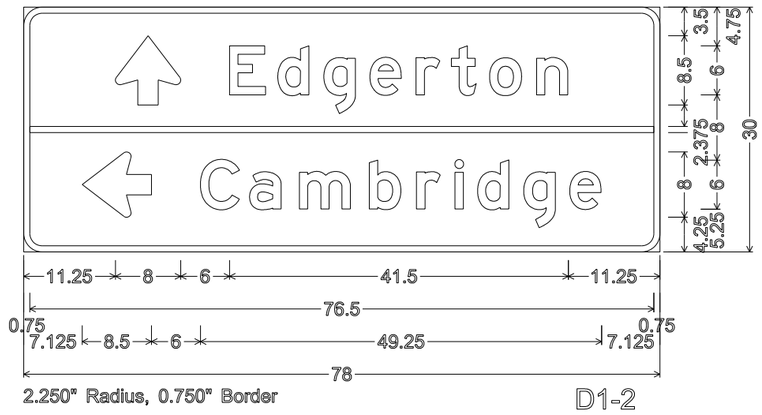
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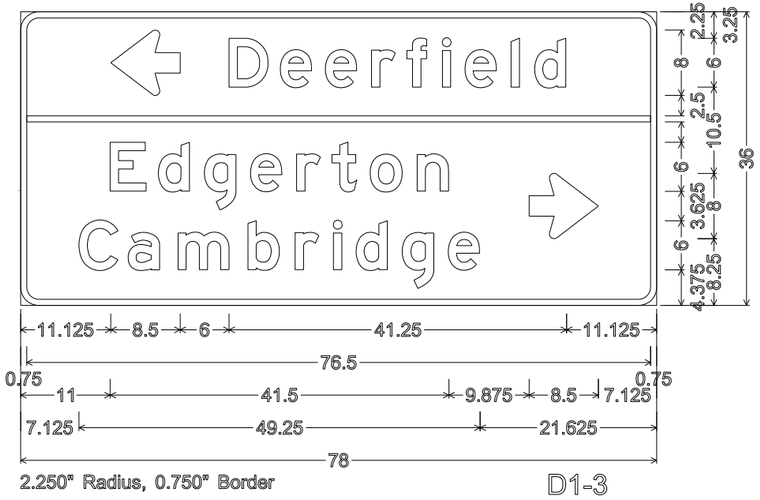
S.D.D. 16 A 1-6

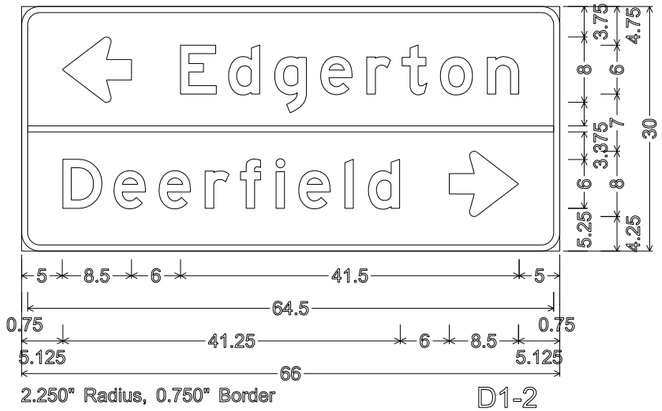
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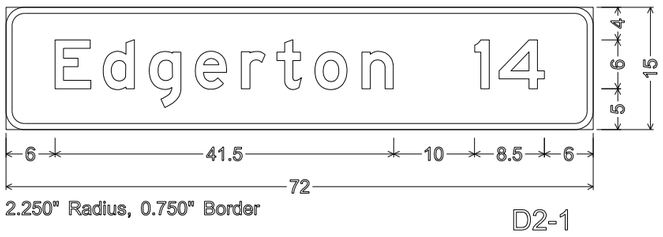
S.D.D. 16 A 1-6

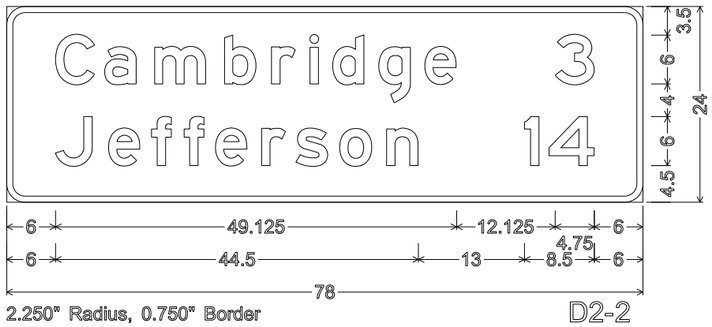












NOTES

1. All Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E

7

7

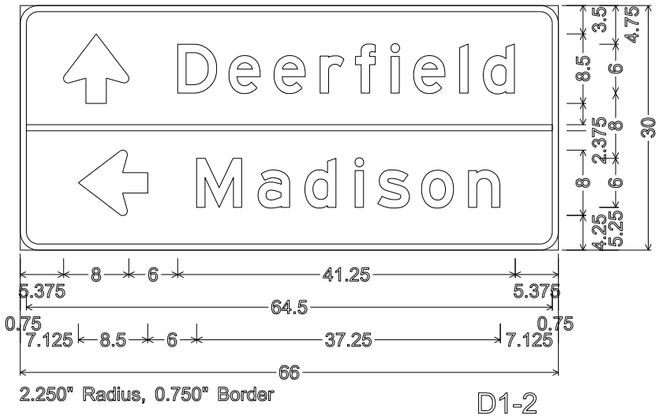
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING	SCALE: 0 ½" 1"	SHEET 460	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\070101_sd.dgn PLOT DATE : 8/4/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20.8957

WISDOT/CADDS SHEET 47

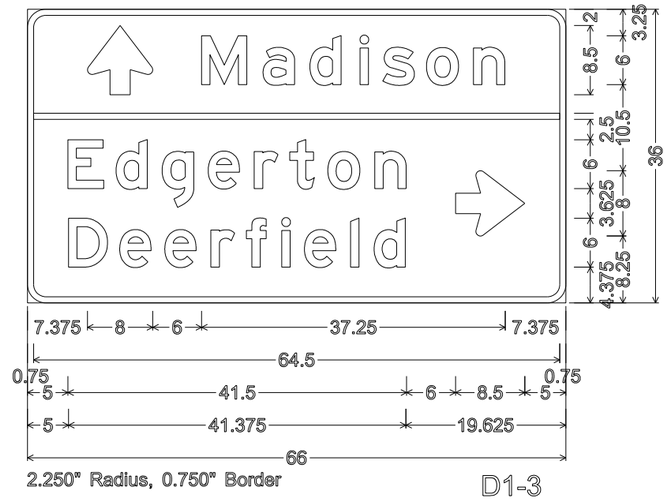
NOTES

1. All Signs are Type II - Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



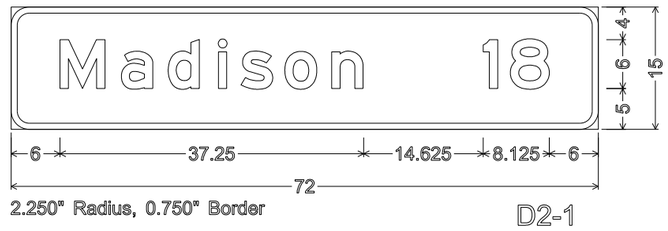
2.250" Radius, 0.750" Border

D1-2



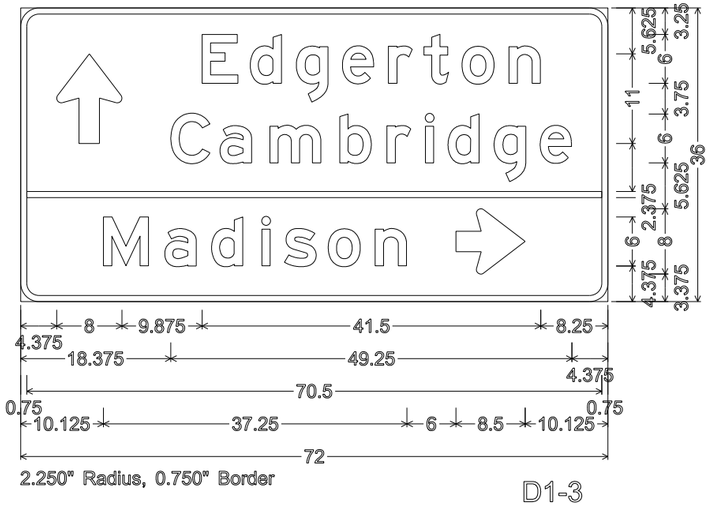
2.250" Radius, 0.750" Border

D1-3



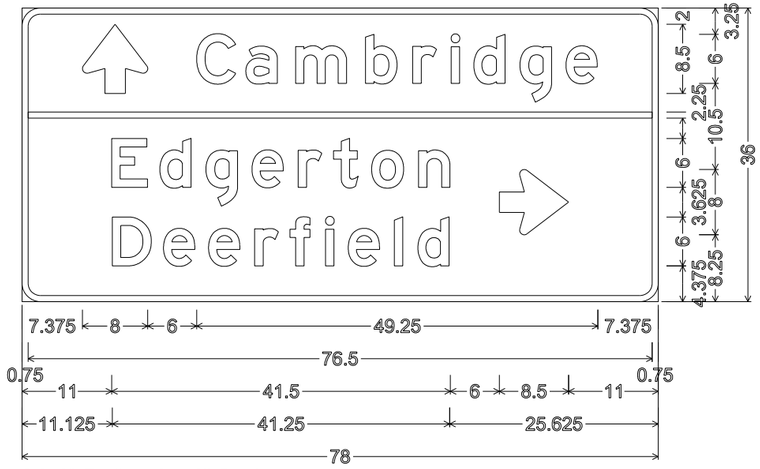
2.250" Radius, 0.750" Border

D2-1



2.250" Radius, 0.750" Border

D1-3



2.250" Radius, 0.750" Border

D1-3

7

7

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	PERMANENT SIGNING	SCALE: 0 ½" 1"	SHEET 461	E

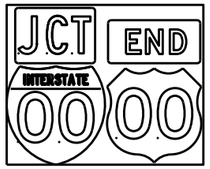
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WISDOT/CADDS SHEET 47

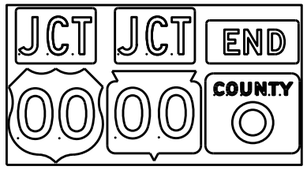
TYPICAL ASSEMBLIES



J1-1



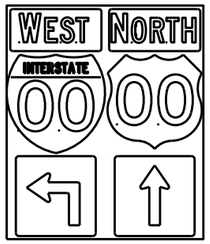
J1-2



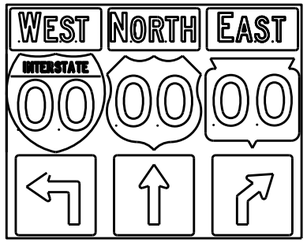
J1-3



J2-1



J2-2

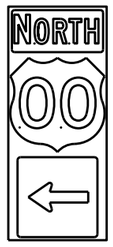


J2-3

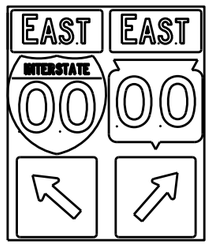


JV

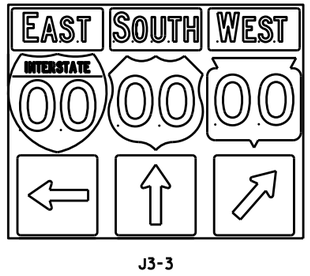
(Typical Vertical J-Assembly
See Note 10 and 11)



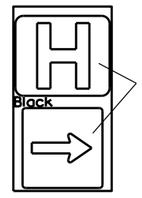
J3-1



J3-2



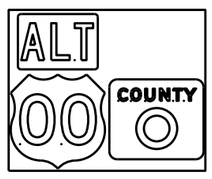
J3-3



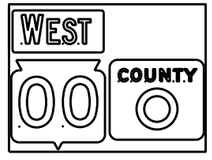
JH-1



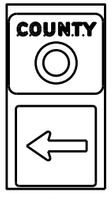
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

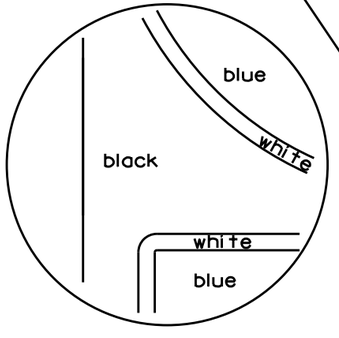


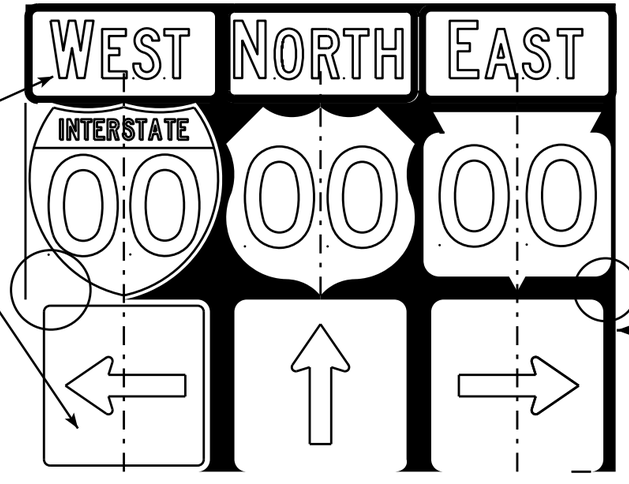
J23-1

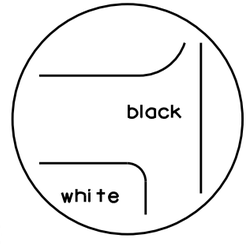


J22-1

[blue background with interstate]







[black background]

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 or rounded if base material is plywood. If base material is metal the corners shall be rounded.
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.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

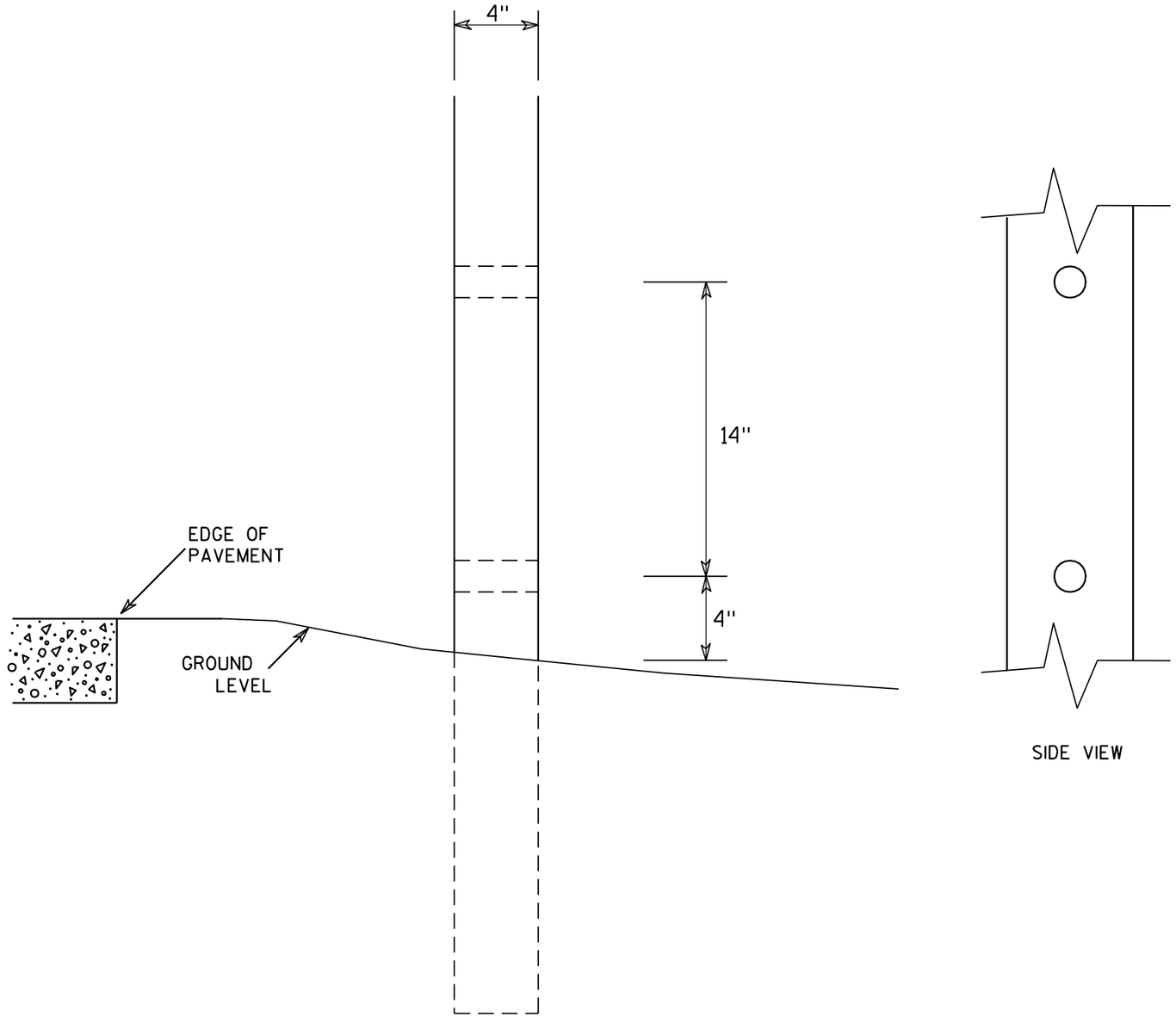
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

PROJECT NO:

SHEET NO: 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.

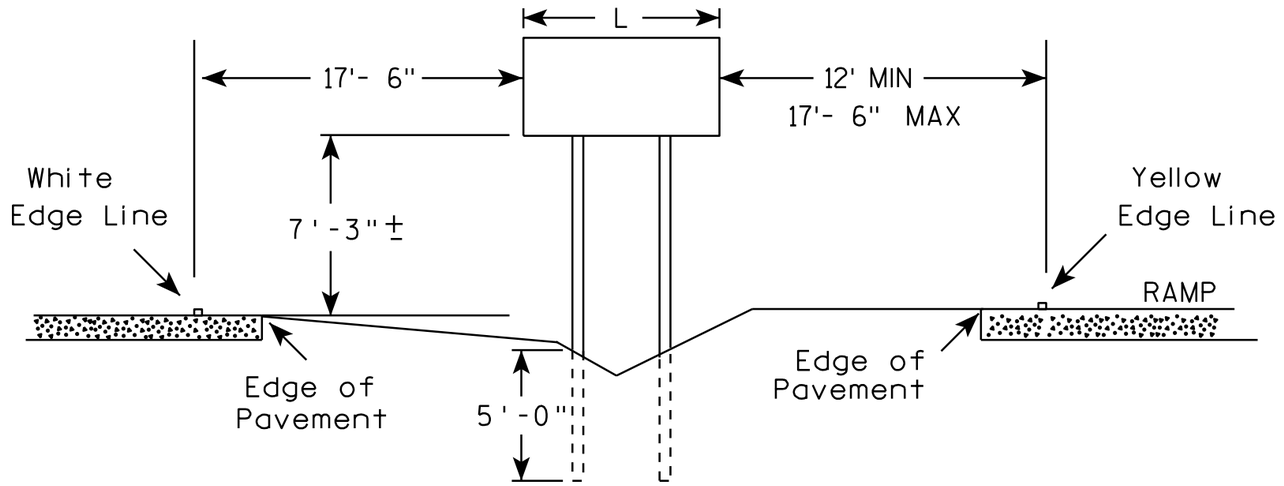
4 X 6 WOOD POST MODIFICATIONS

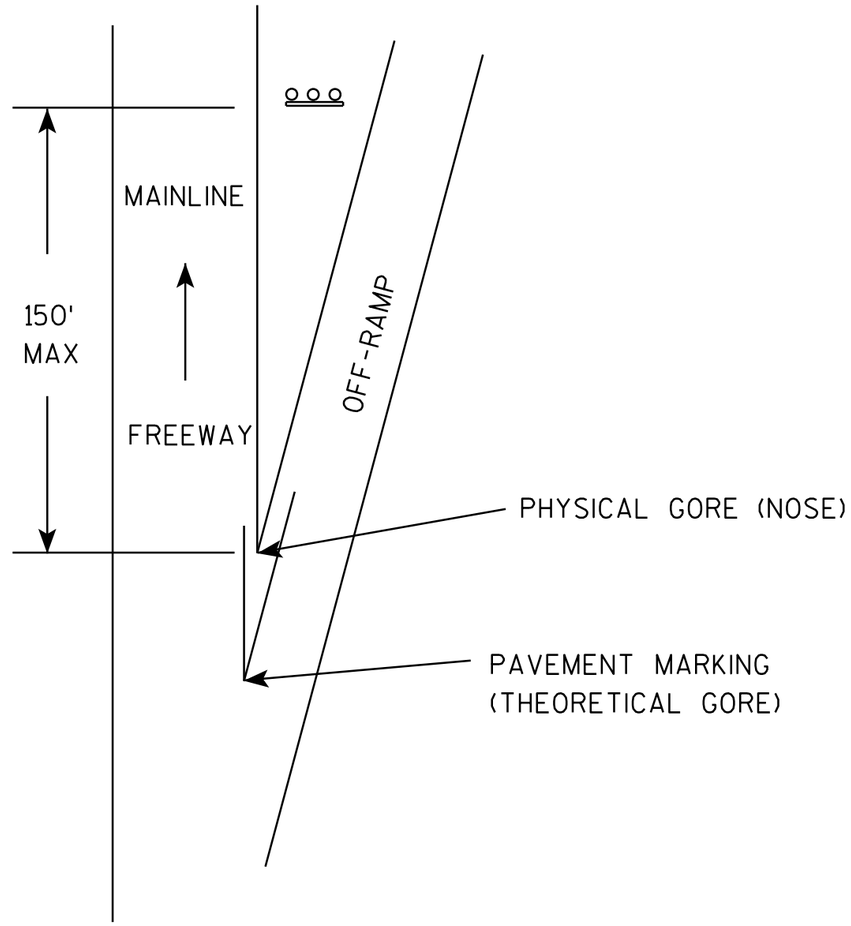
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 463	E





GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The (∓) tolerance for the mounting height is 3 inches.

7

7

TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

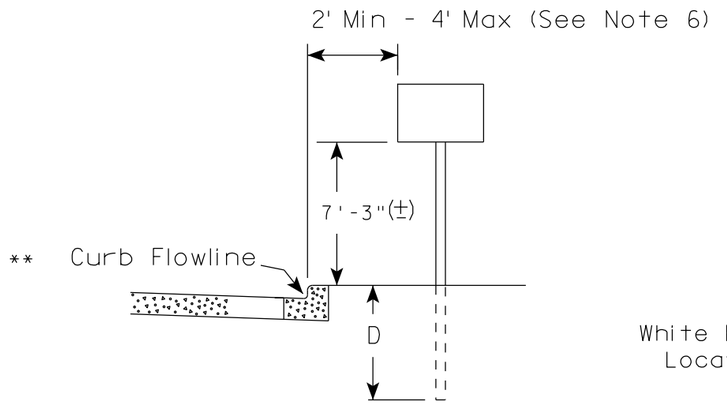
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

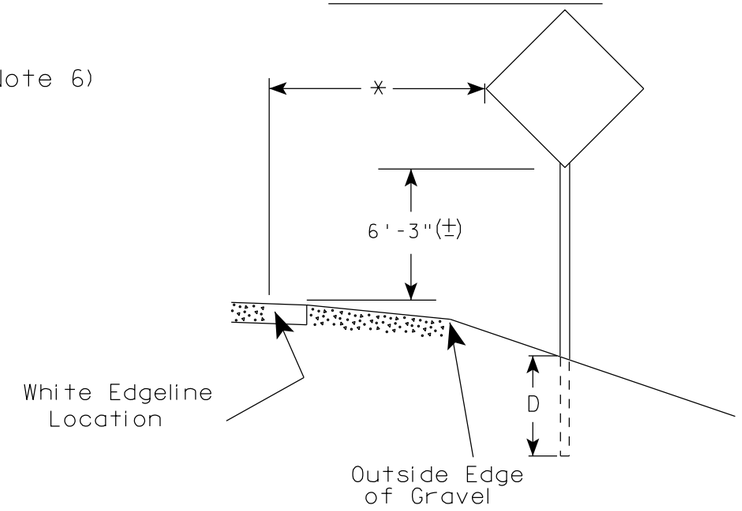
DATE 2/06/14 PLA 464 A4-2.3

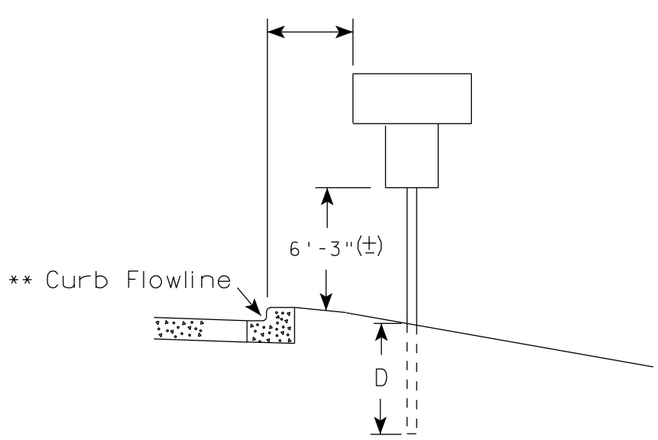
PROJECT NO: | SHEET NO: E

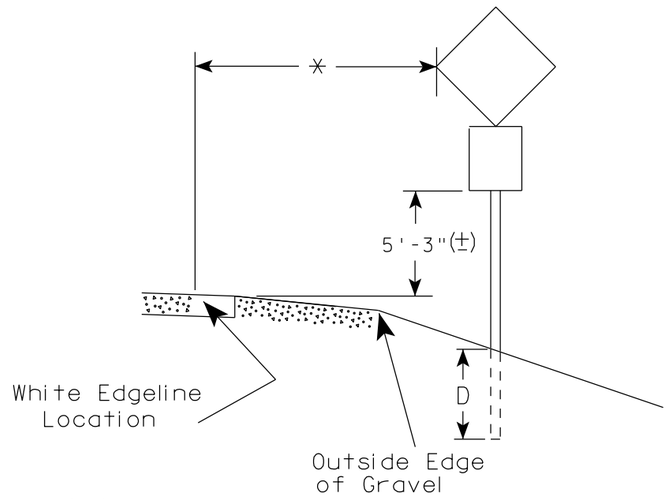
URBAN AREA



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.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet, 20 sq.ft or larger, 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 (A2-1S) 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 signs shall be mounted at a height of 5'-3" (±) or as directd 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), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

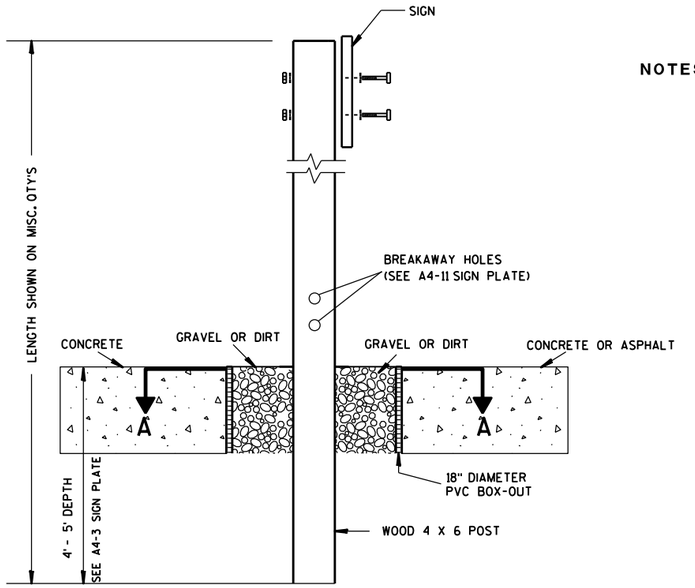
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-3.19

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

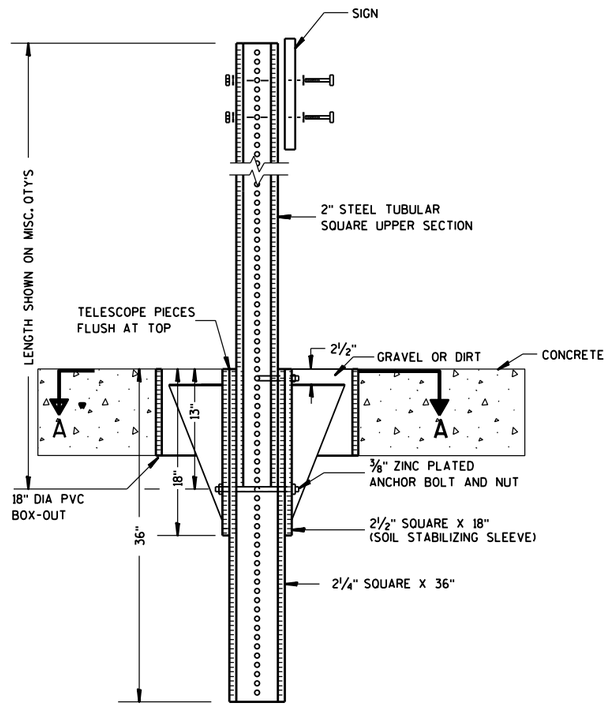
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43.DGN PLOT DATE : 12-NOV-2014 14:03 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 99.237937:1.000000
WISDOT/CADDS SHEET 42



ELEVATION VIEW

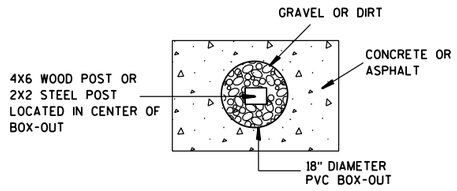
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

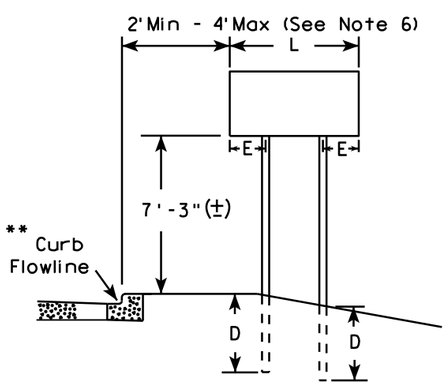
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

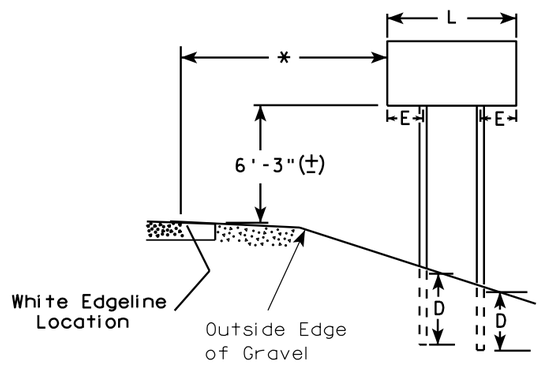
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

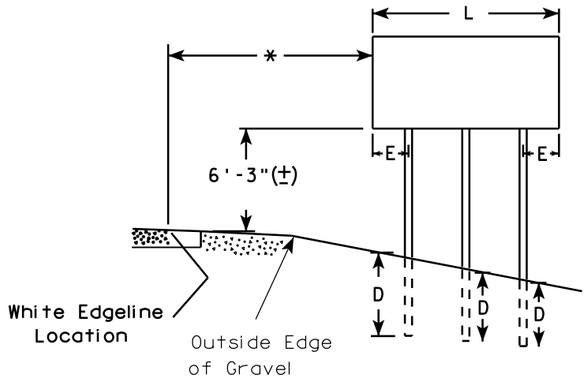
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

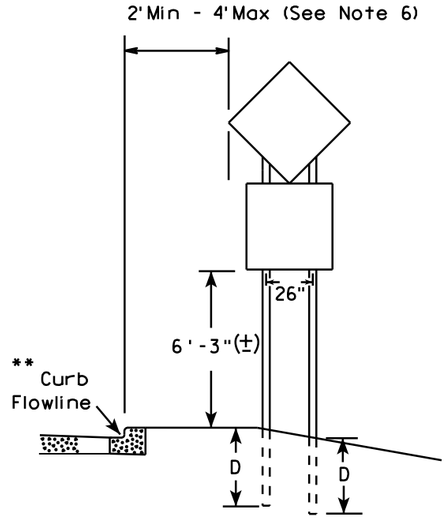
URBAN AREA



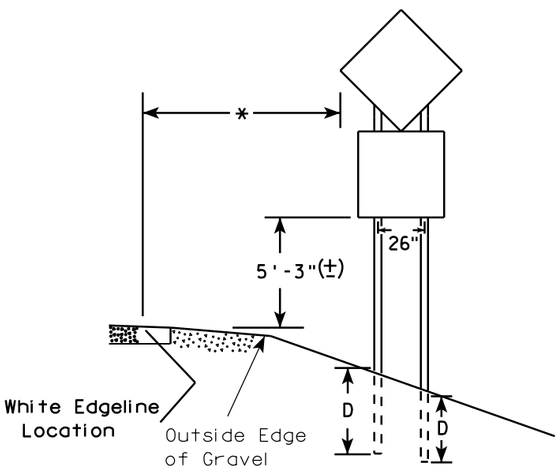
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 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 (A2-1S) 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 signs 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), In Road Object Markers (W5-54) & End of Road Markers (W5-56) 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 less than 20 S.F. in area.

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'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

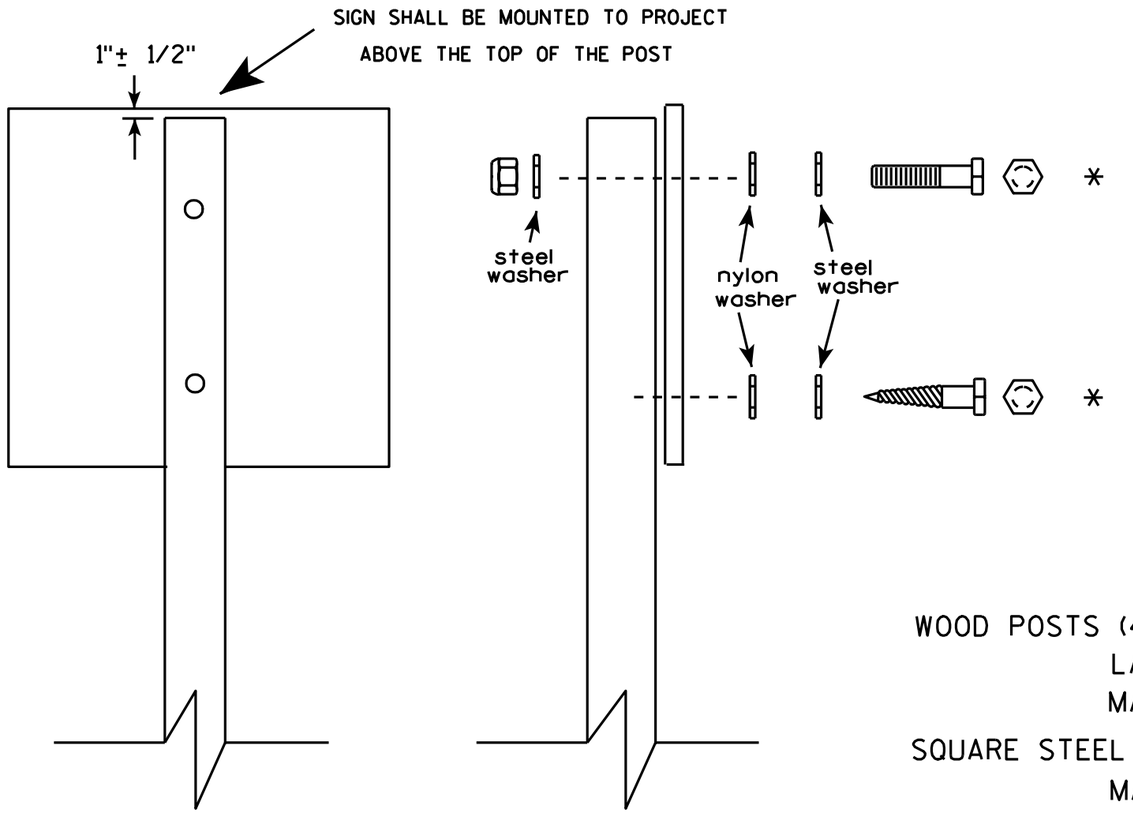
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/14 PLATE NO. A4-4 467 13

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 12-NOV-2014 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42



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

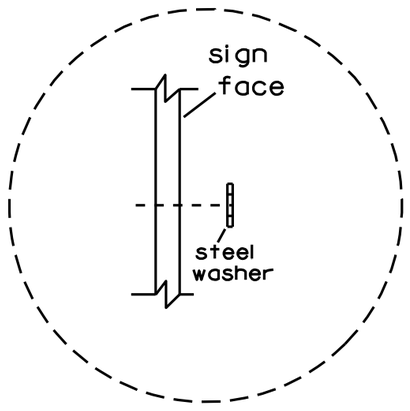
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

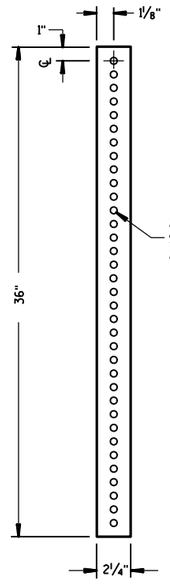
7

PROJECT NO:

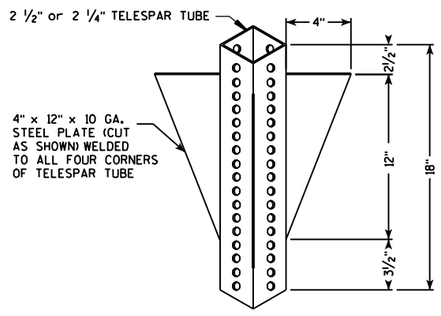
SHEET NO: 468 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

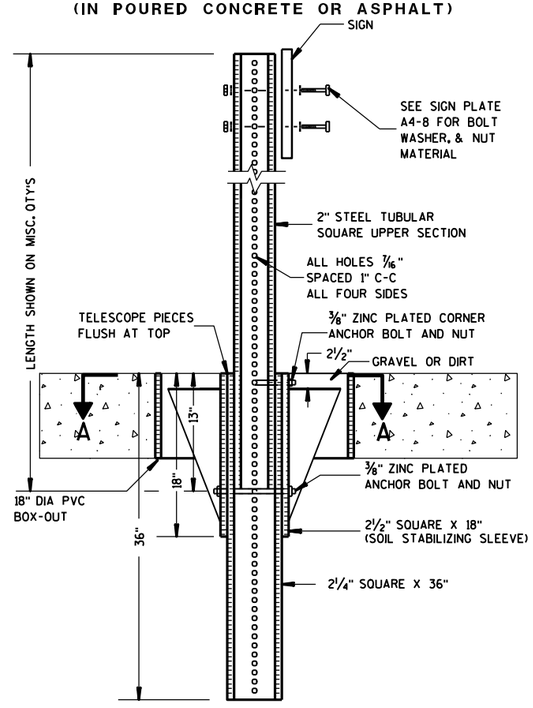
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



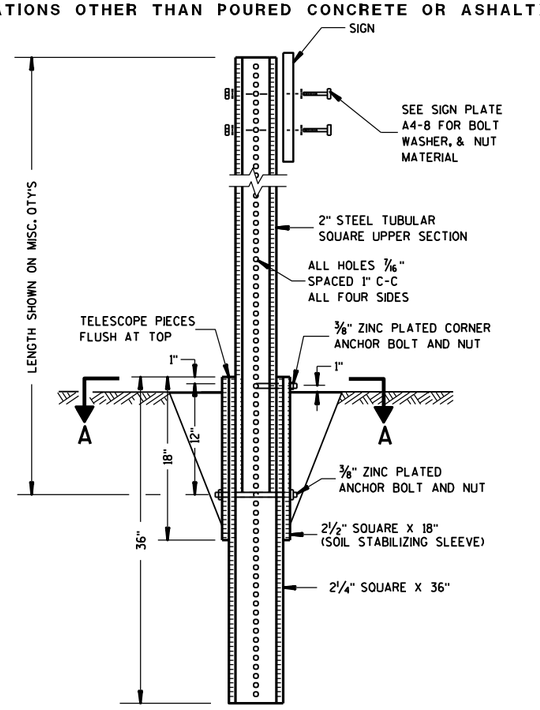
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

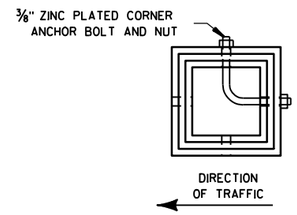


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

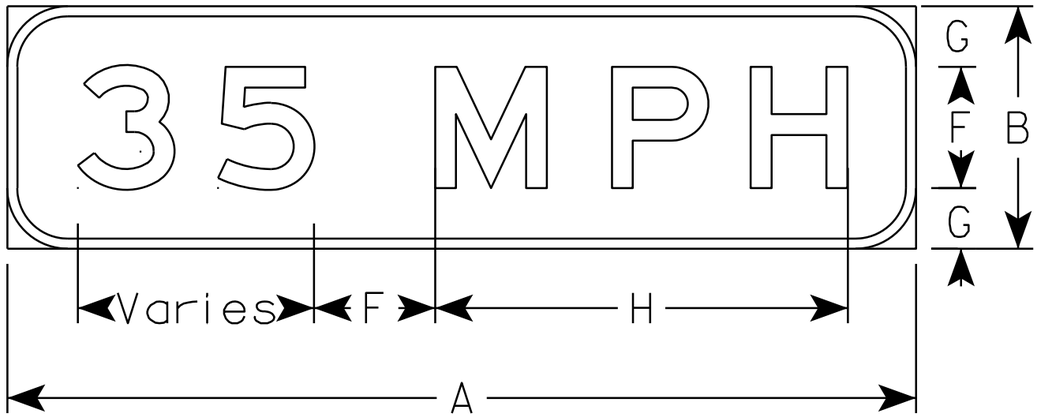
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

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: 469	E



E13-1P

NOTES

1. Panel is - Type F reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E
4. The panel shown on this plate is for use with E5-1A.
5. Width, Radius and Border thickness shall match the E5-1A.
6. Substitute appropriate numerals and adjust placement 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																											
2S	VARIES	24				12	6	40 7/8																			VARIES
2M																											
3																											
4																											
5																											

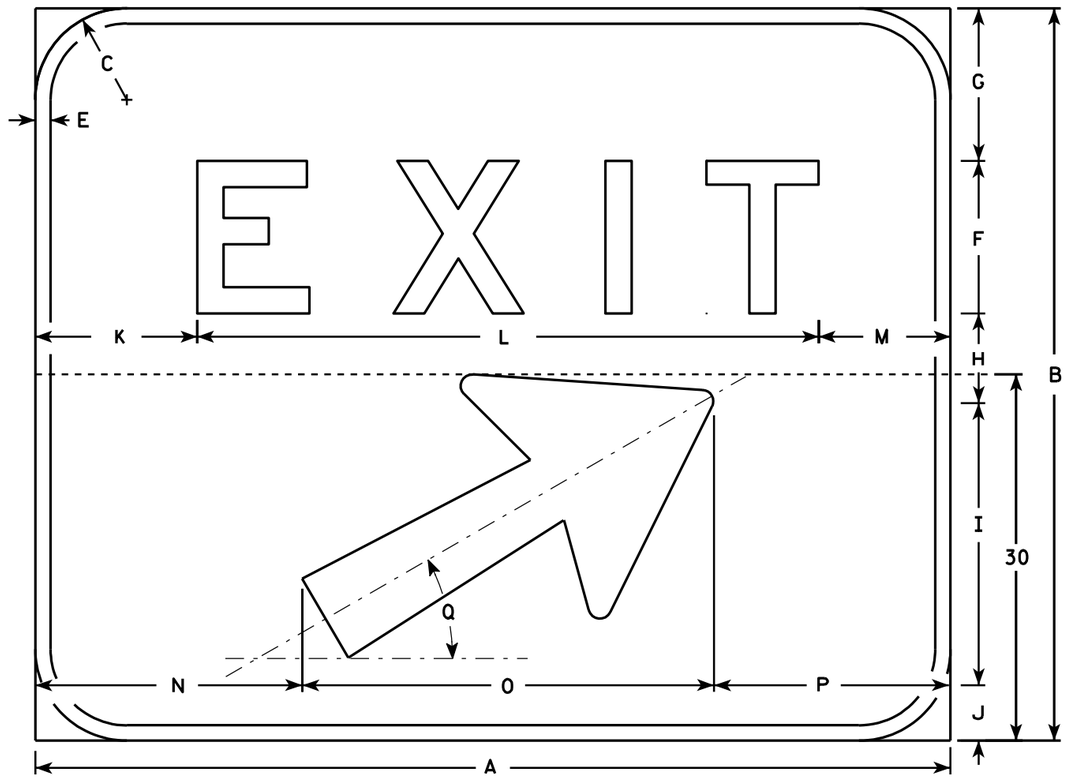
STANDARD SIGN
E13-1P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/5/2012 PLATE NO. E13-1P.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 470	E



E5-1

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 (Type H reflective)
3. Message Series - E
4. Corners may be square or rounded but borders shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two seperate pieces for the 72 x 60 size as shown on the detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. As per the Standard Spec's, this sign shall not have a vertical joint.

Metric equivalent for this sign is:

SIZE	
1	
2	
3	
4	1500 mm X 1200 mm
5	1800 mm X 1500 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																												
3																												
4	60	48	6		1	10	10	5 7/8	18 1/2	3 5/8	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°										20.0	1.80
5	72	60	6		1	12	12	10	18 1/2	7 1/2	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°										30.0	2.70

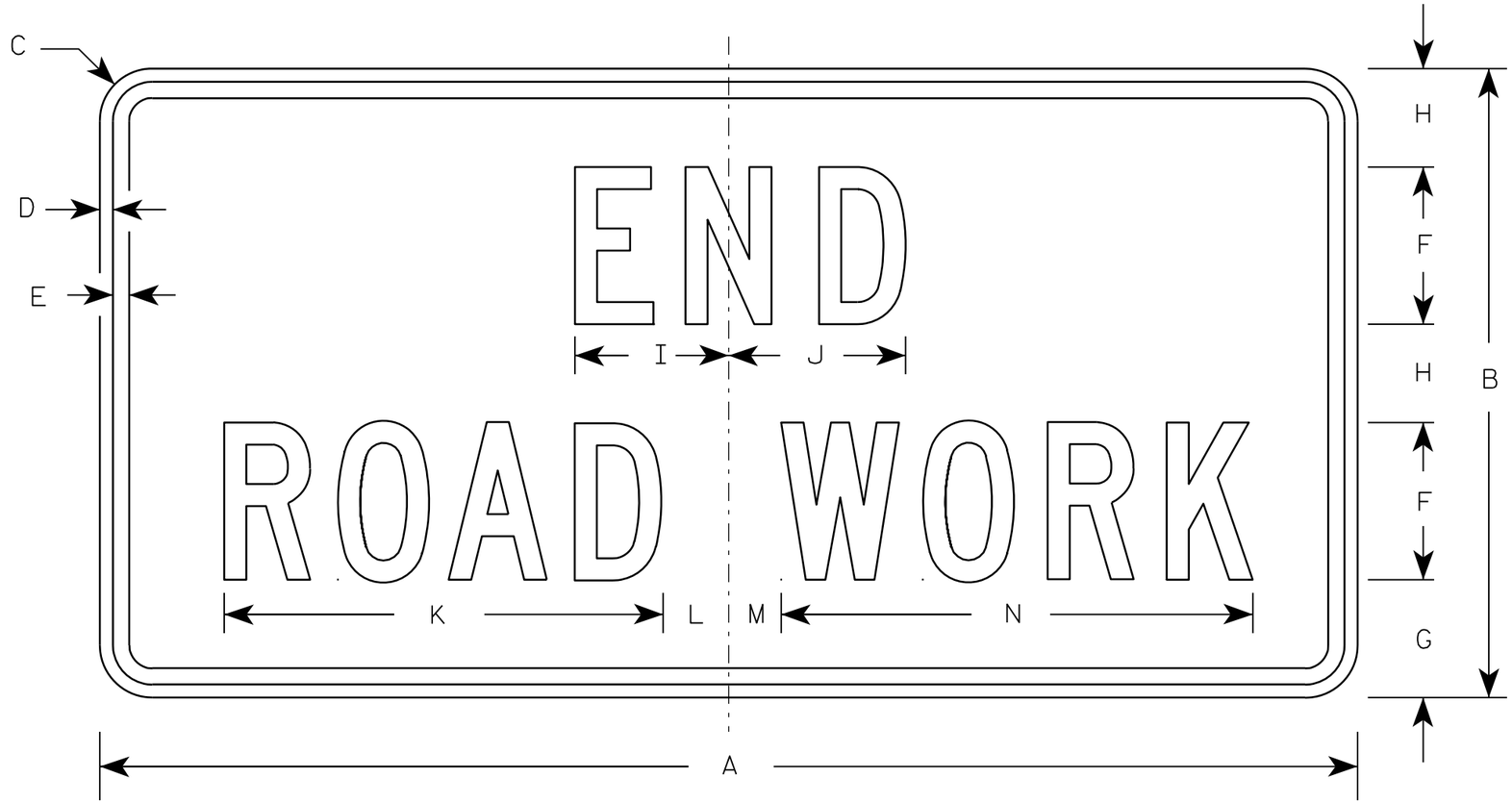
STANDARD SIGN
E5 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 6/22/00 PLATE NO. E5-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 471	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

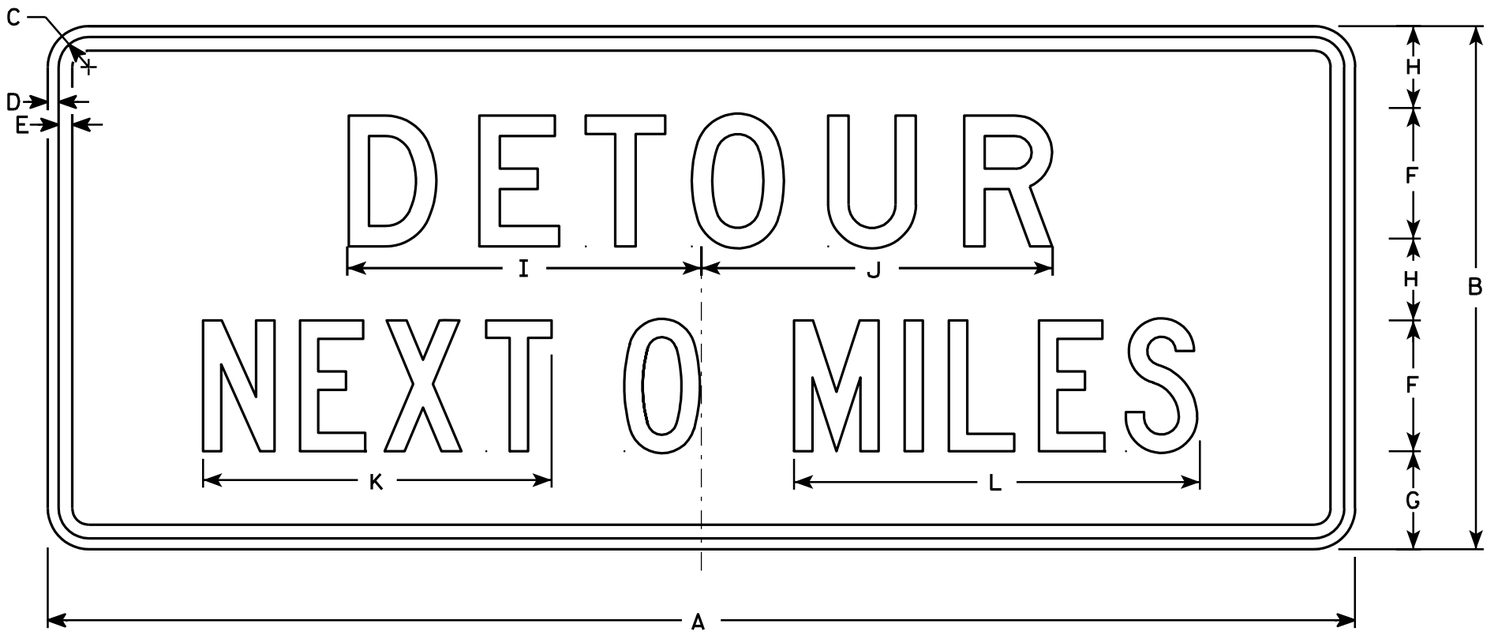
STANDARD SIGN
G20-2A

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: 472	E



G20-51

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 - Line 1 is D and Line 2 is 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

Metric equivalent for this sign is:

SIZE	
1	
2	1500 mm X 600 mm
3	
4	1500 mm X 600 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																												
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10	.90
3																												
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4	16 1/4	16 1/8	16	18 5/8															10	.90
5																												

STANDARD SIGN
G20-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/02 PLATE NO. G20-51.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 473	E

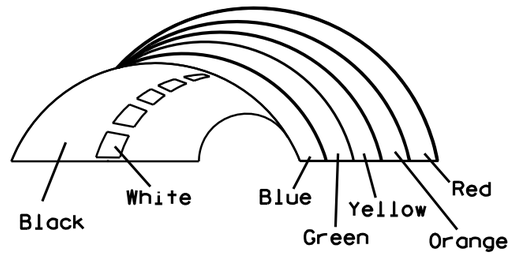


* VARIES

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

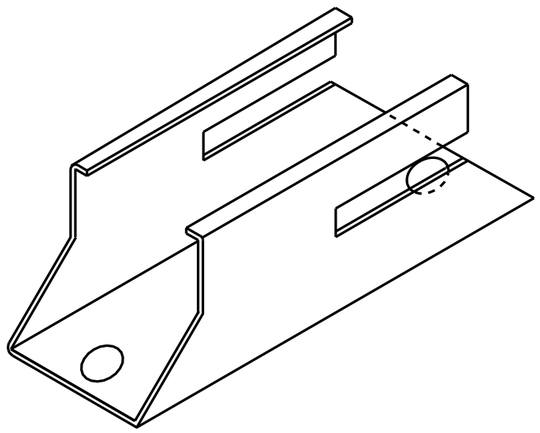
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 474

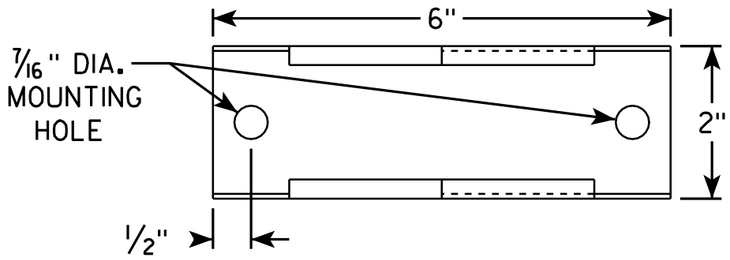
ISOMETRIC VIEW



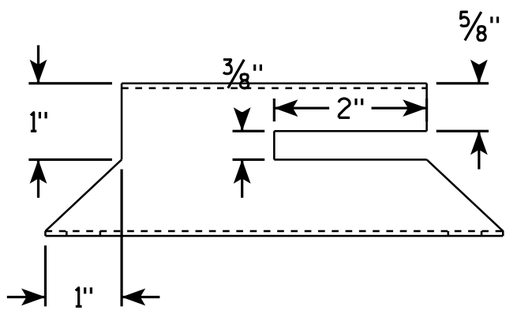
NOTES

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.

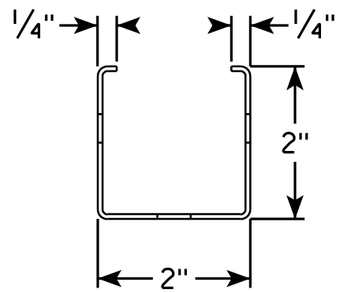
TOP VIEW



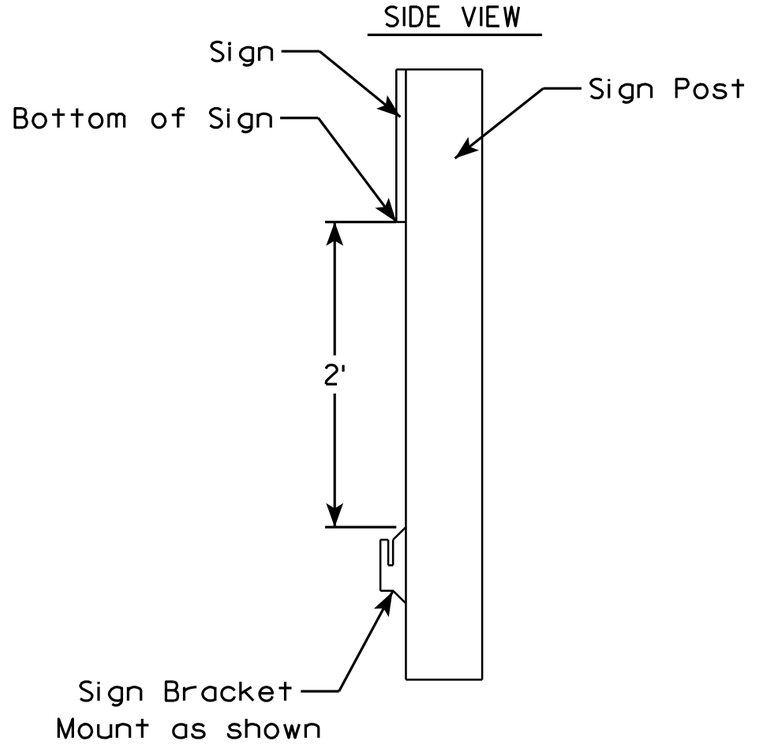
SIDE VIEW



END VIEW



SIDE VIEW



7

7

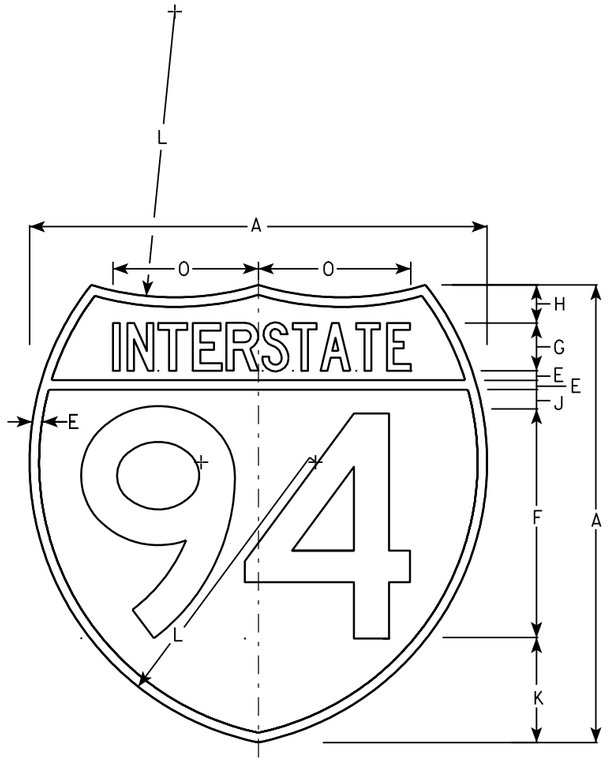
ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

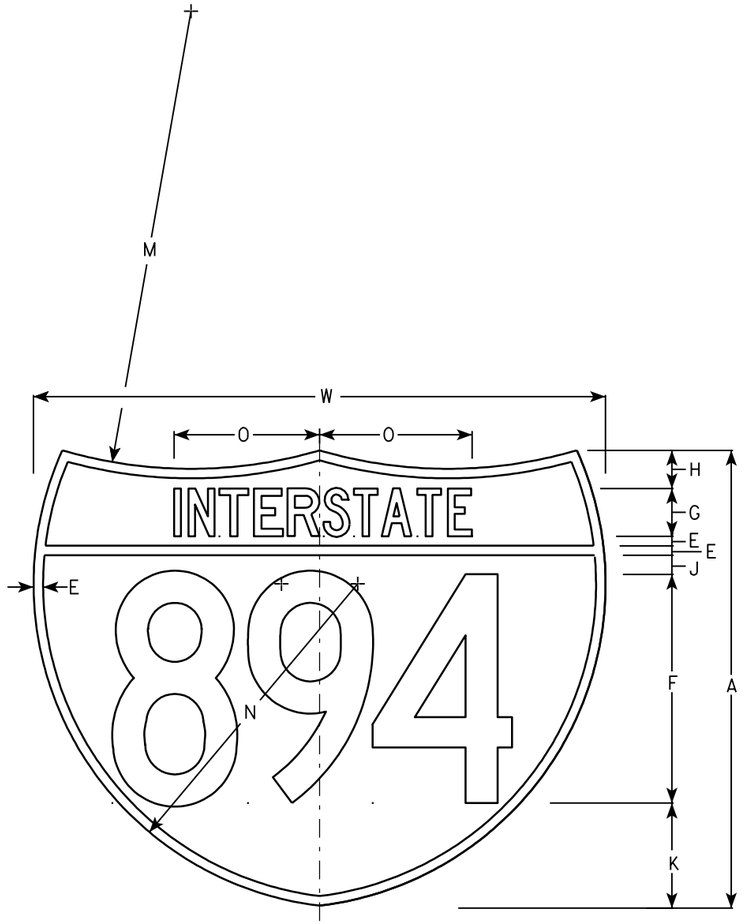
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 475	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 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	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

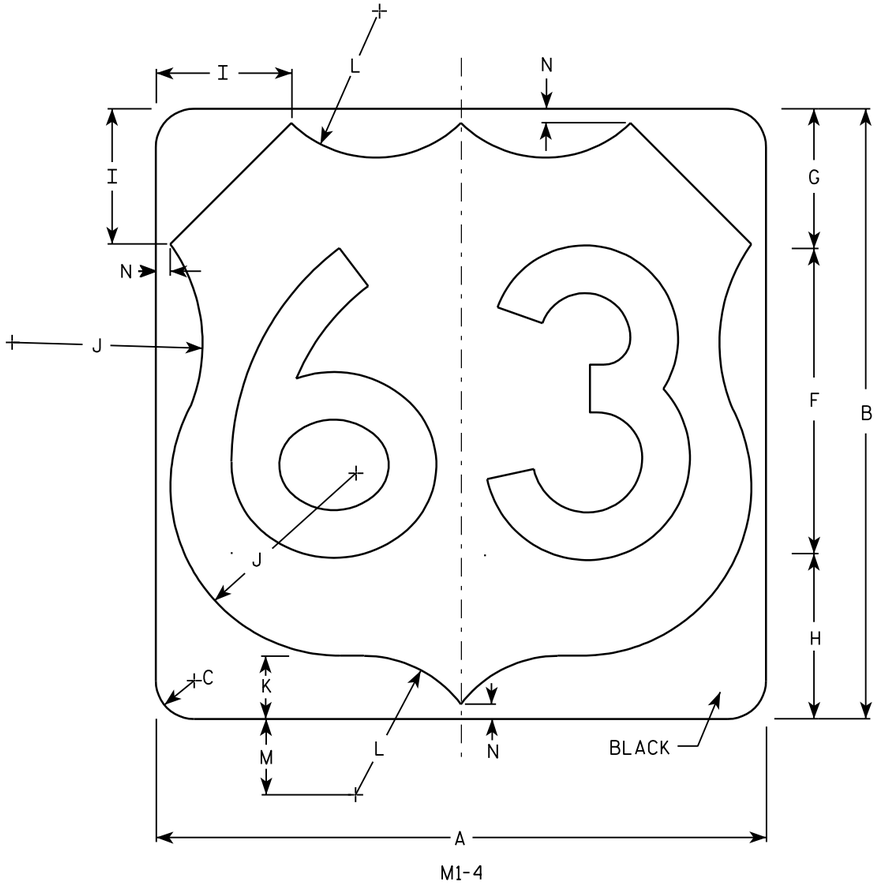
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

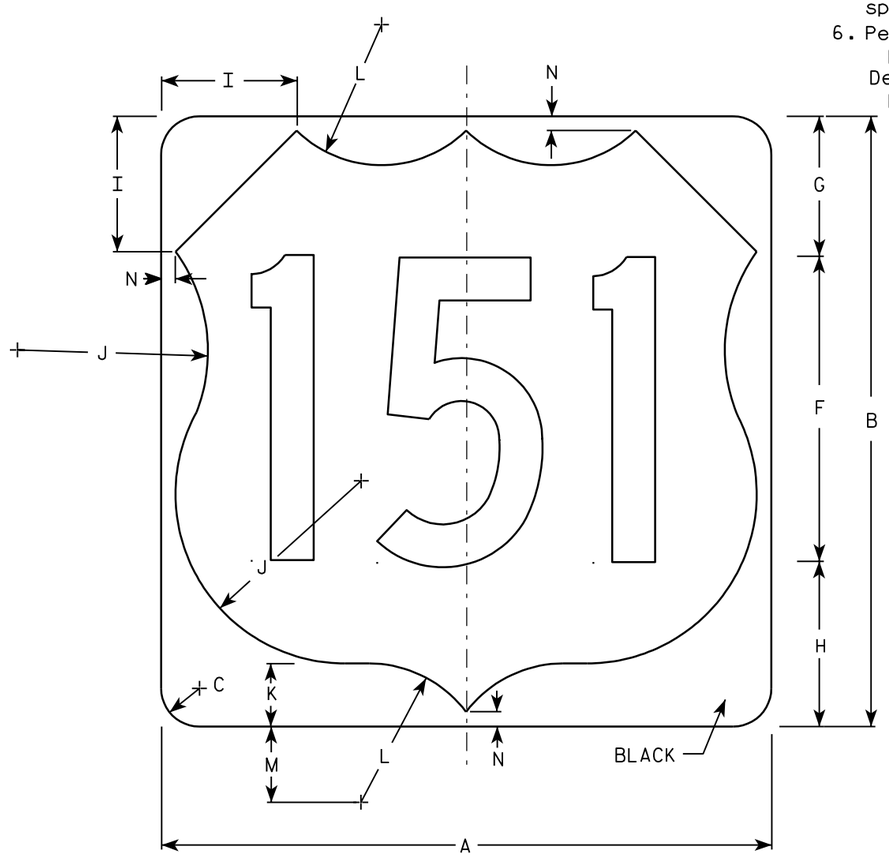
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 476	E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
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. Substitute appropriate numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

7

7

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 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	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

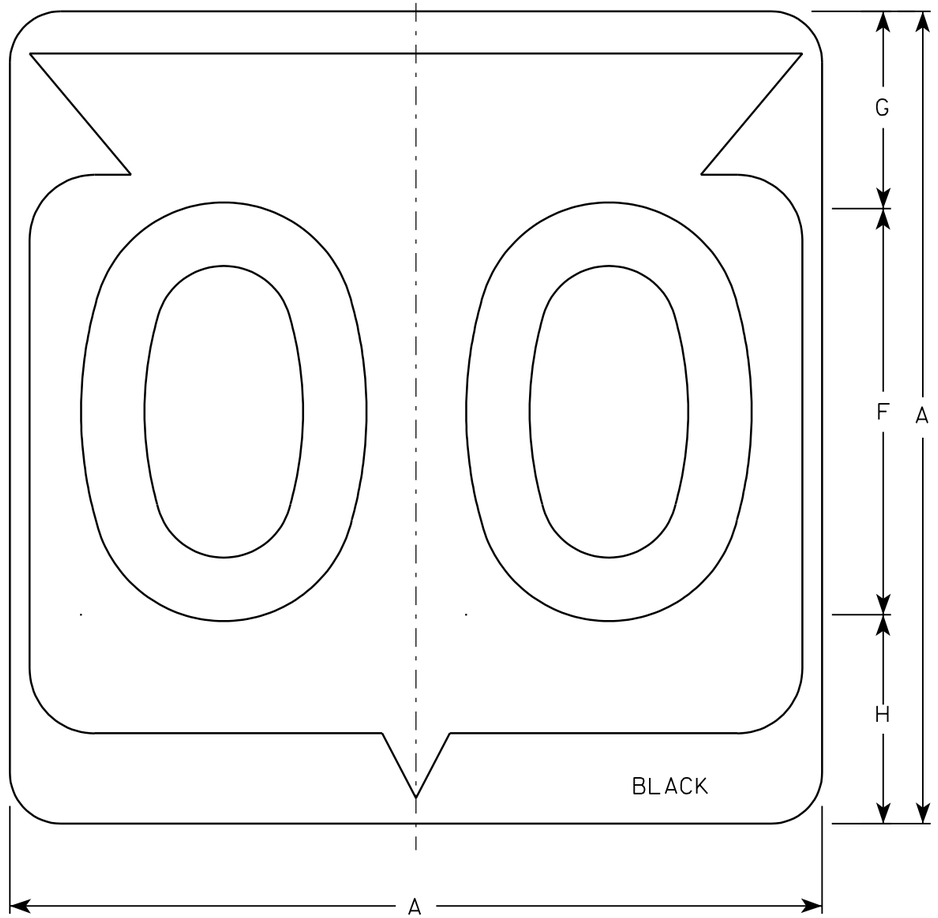
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/25/05 PLATE NO. M1-4.9

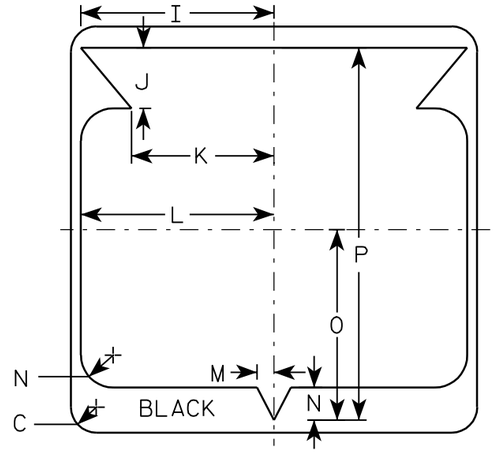
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 477	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
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. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 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	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

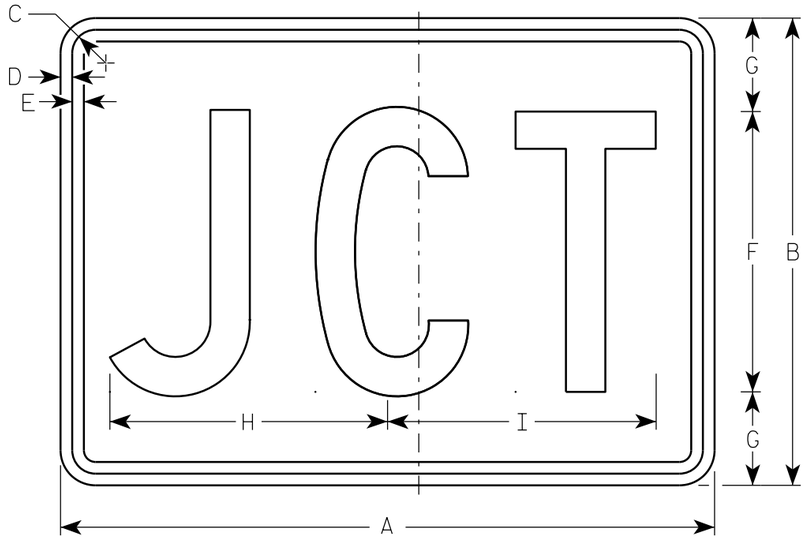
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

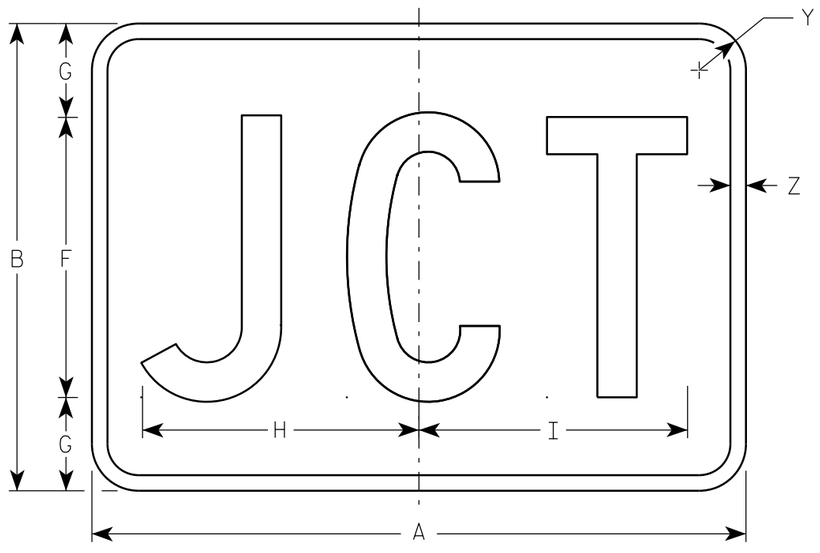
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 478	E



M2-1
MK2-1
MM2-1
MN2-1
MR2-1



MB2-1

NOTES

1. Sign is Type II - Type H
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. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MR2-1 Background - Brown
   Message - Yellow

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	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

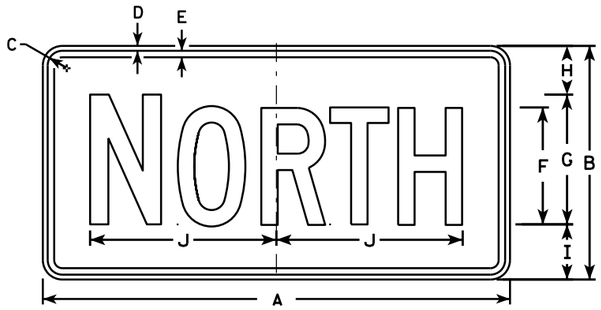
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

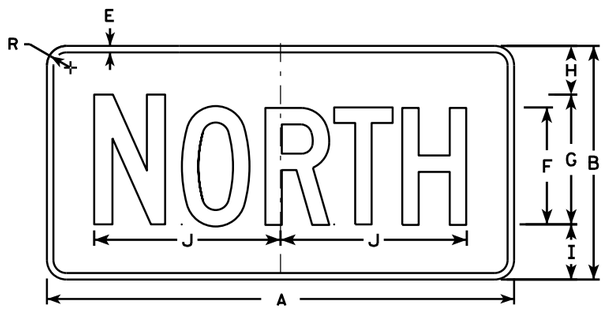
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 6/30/14 PLATE 479 "2-1.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M3-1
MK3-1
MM3-1
MN3-1



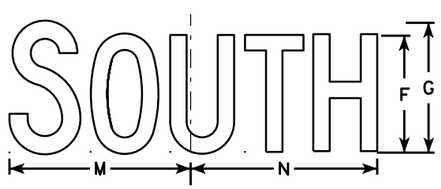
MB3-1



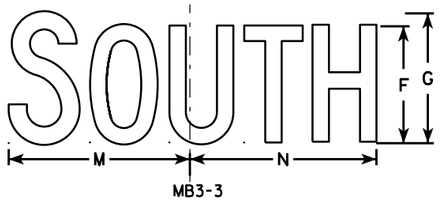
M3-2
MK3-2
MM3-2
MN3-2



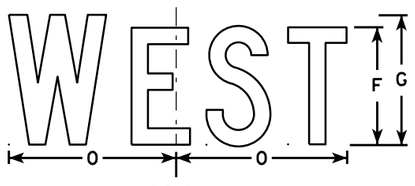
MB3-2



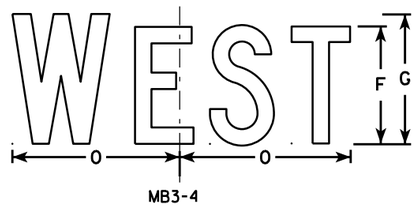
M3-3
MK3-3
MM3-3
MN3-3



MB3-3



M3-4
MK3-4
MM3-4
MN3-4



MB3-4

NOTES

1. All Signs Type II - Type H
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
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
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

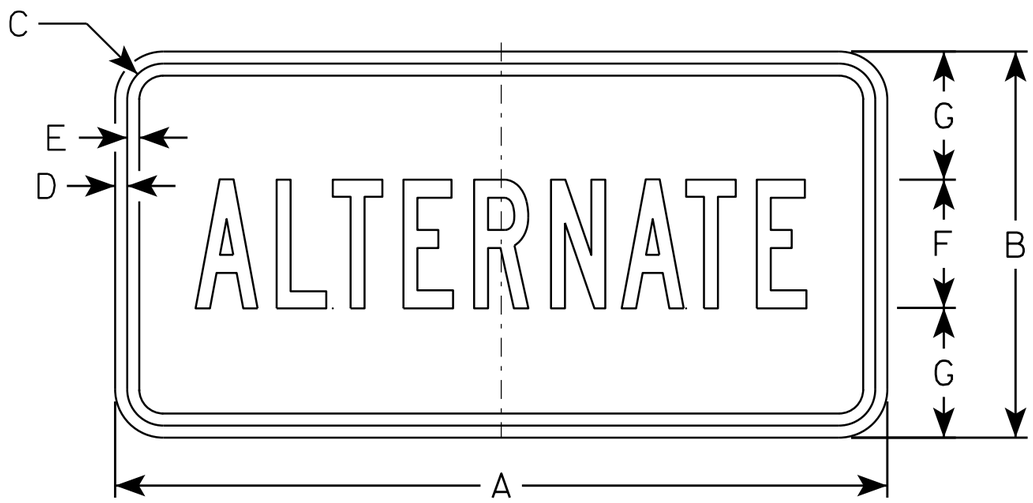
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

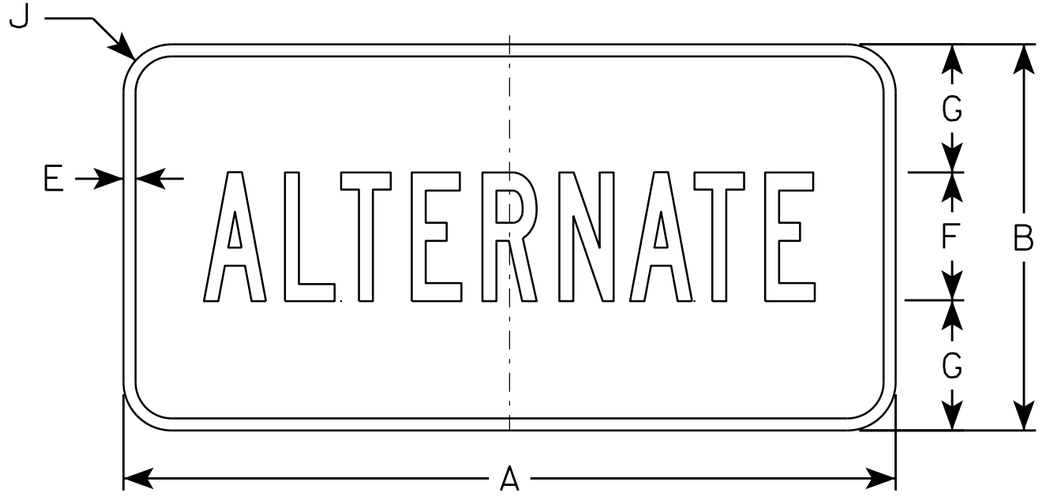
DATE 6/30/14 PLATE NO M3-1.13

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

7



M4-1
M04-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
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.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   M04-1 Background - Orange - Type F
   Message - Black

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	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

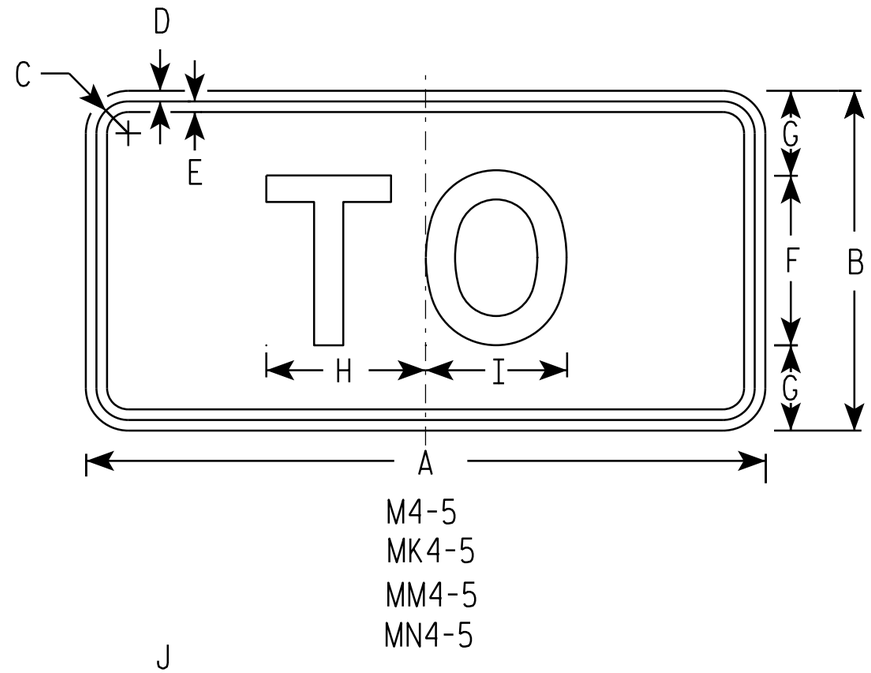
STANDARD SIGN
M4-1

WISCONSIN DEPT OF TRANSPORTATION

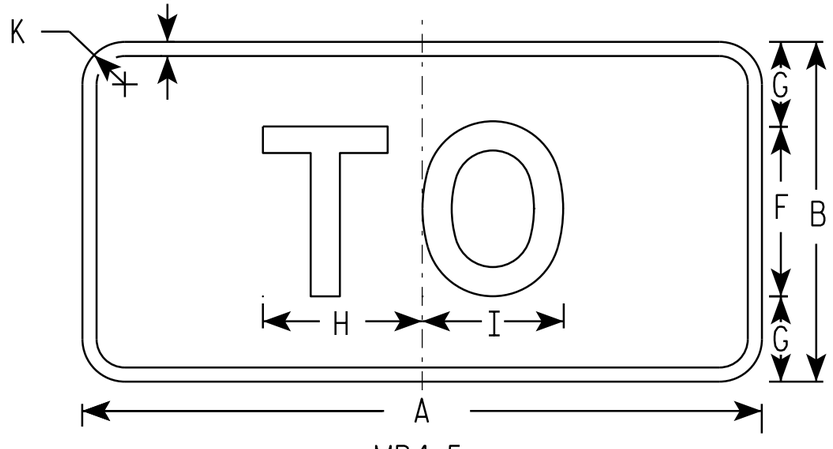
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE 481 14-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M4-5
MK4-5
MM4-5
MN4-5



MB4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
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. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

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	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

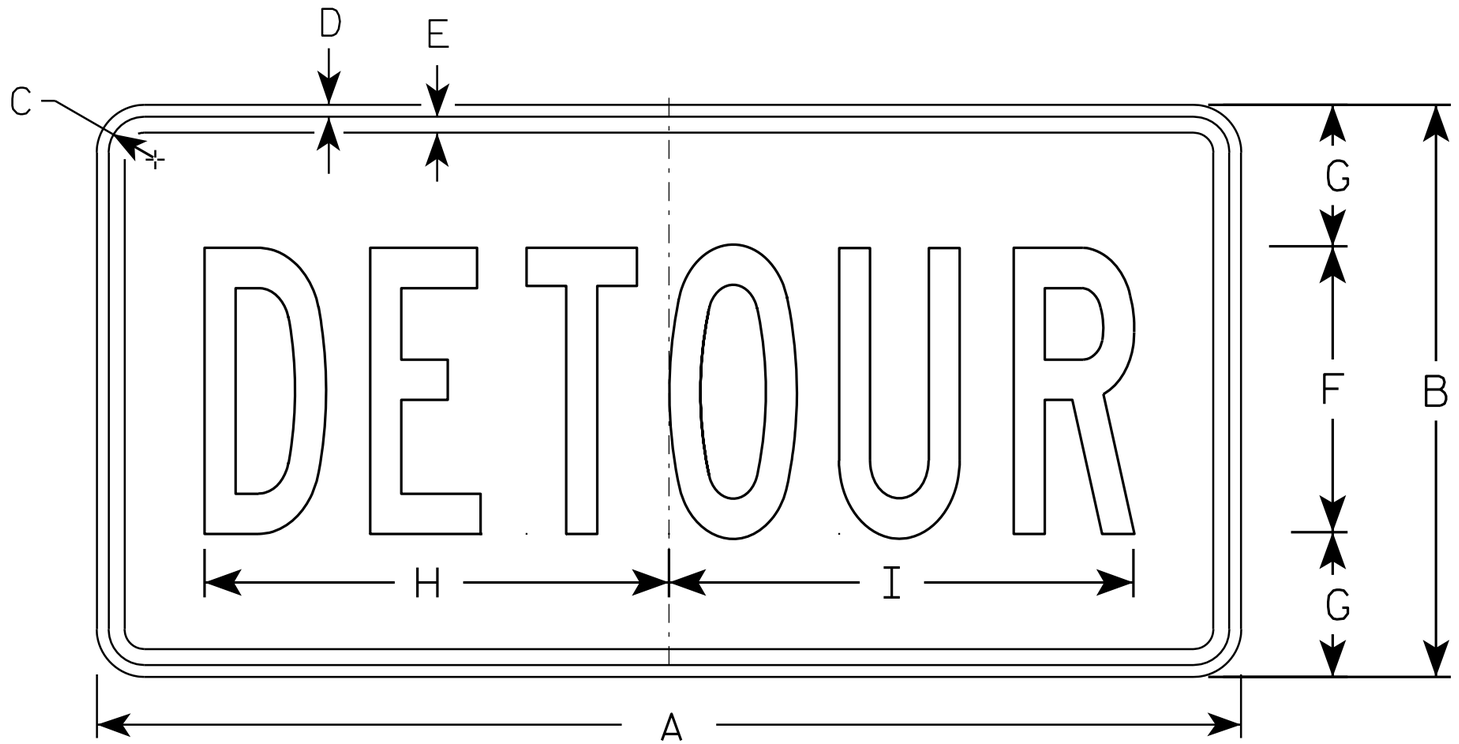
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/30/14 PLATE M4-5.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 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																											

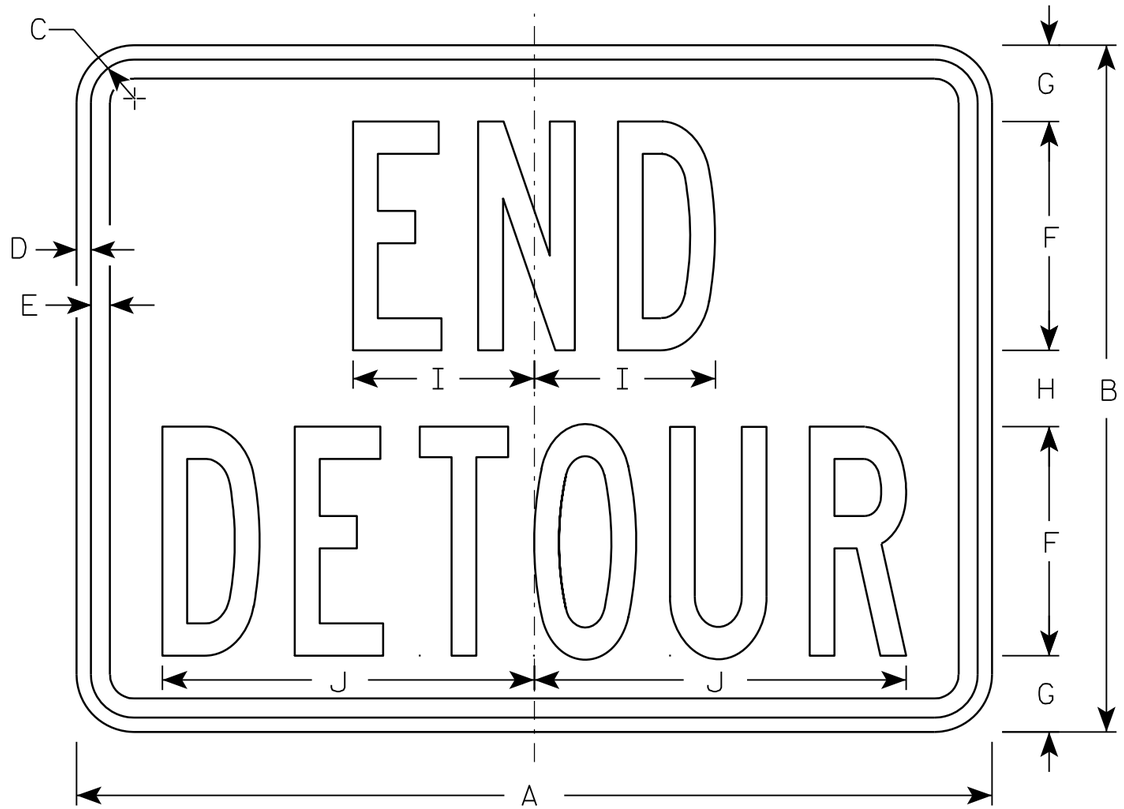
STANDARD SIGN
M4-8

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: 483	E



M4-8A

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	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

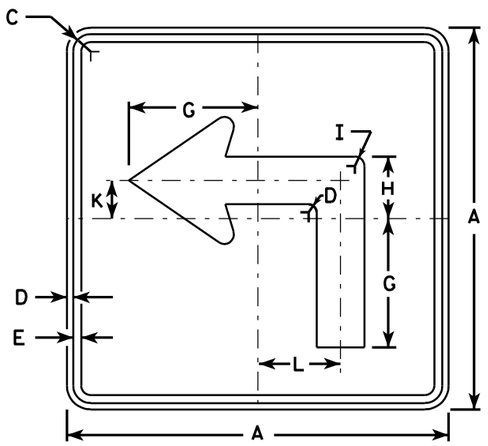
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

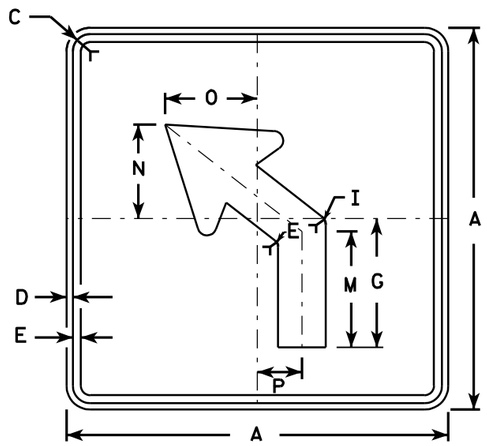
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

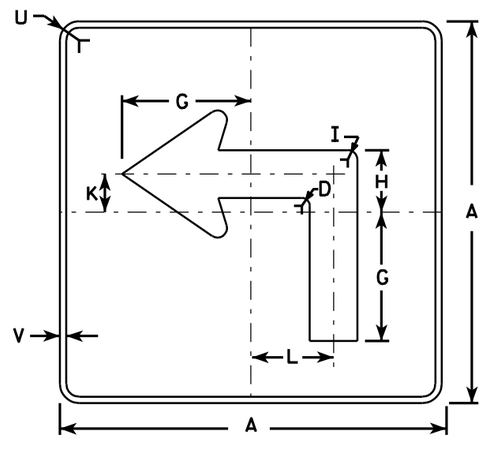
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 484	E



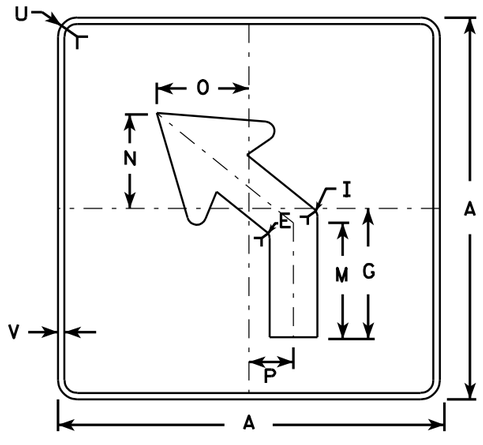
M5-1L
MK5-1L
MM5-1L
MO5-1L
MP5-1L
MR5-1L



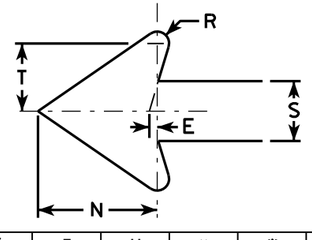
M5-2L
MK5-2L
MM5-2L
MO5-2L
MP5-2L
MR5-2L



MB5-1L
MG5-1L
MN5-1L



MB5-2L
MG5-2L
MN5-2L



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. M5-1 and M5-2 Background - White - Type H Reflective
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White - Type H Reflective
   MG5-1 and MG5-2 Background - Green
   Message - White - Type H Reflective
   MK5-1 and MK5-2 Background - Green
   Message - White Type H Reflective
   MM5-1 and MM5-2 Background - White - Type H Reflective
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White - Type H Reflective
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow - Type H Reflective
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 1/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

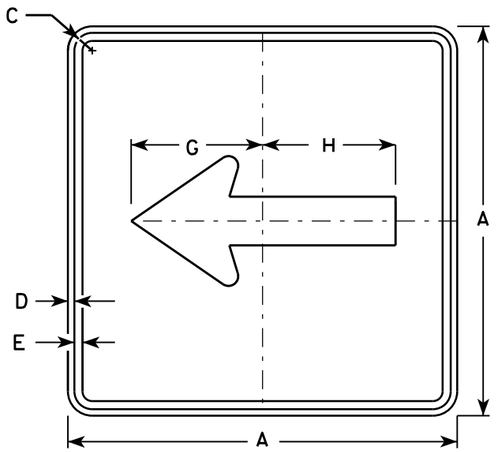
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M5-1.12

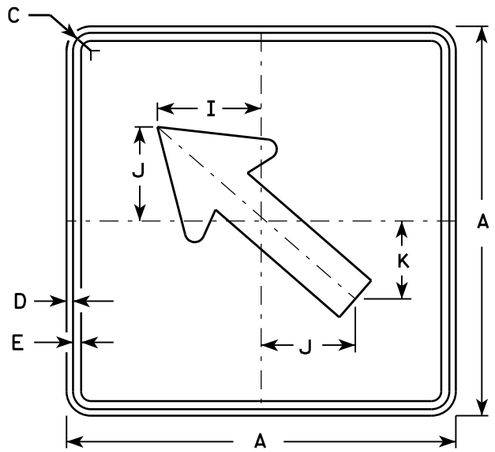
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 485 | E

7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 29-JUL-2013 13:34 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.908552:1.000000



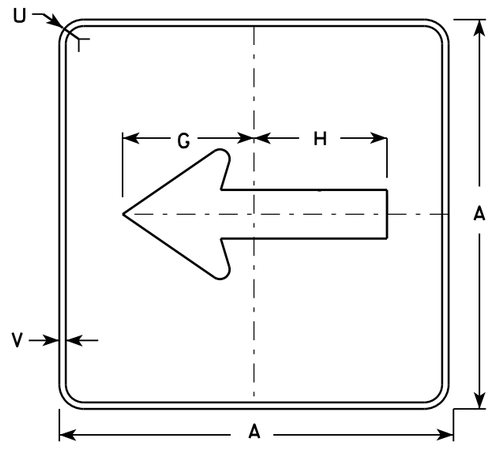
M6-1
MK6-1
MM6-1
MN6-1
MO6-1
MP6-1
MR6-1



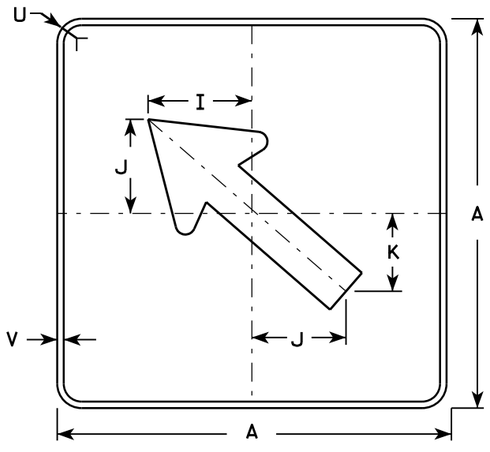
M6-2
MK6-2
MM6-2
MN6-2
MO6-2
MP6-2
MR6-2

NOTES

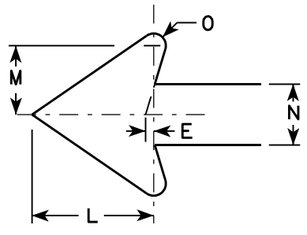
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MG6-1 and MG6-2 Background - Green
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1



MB6-2



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	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
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
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
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

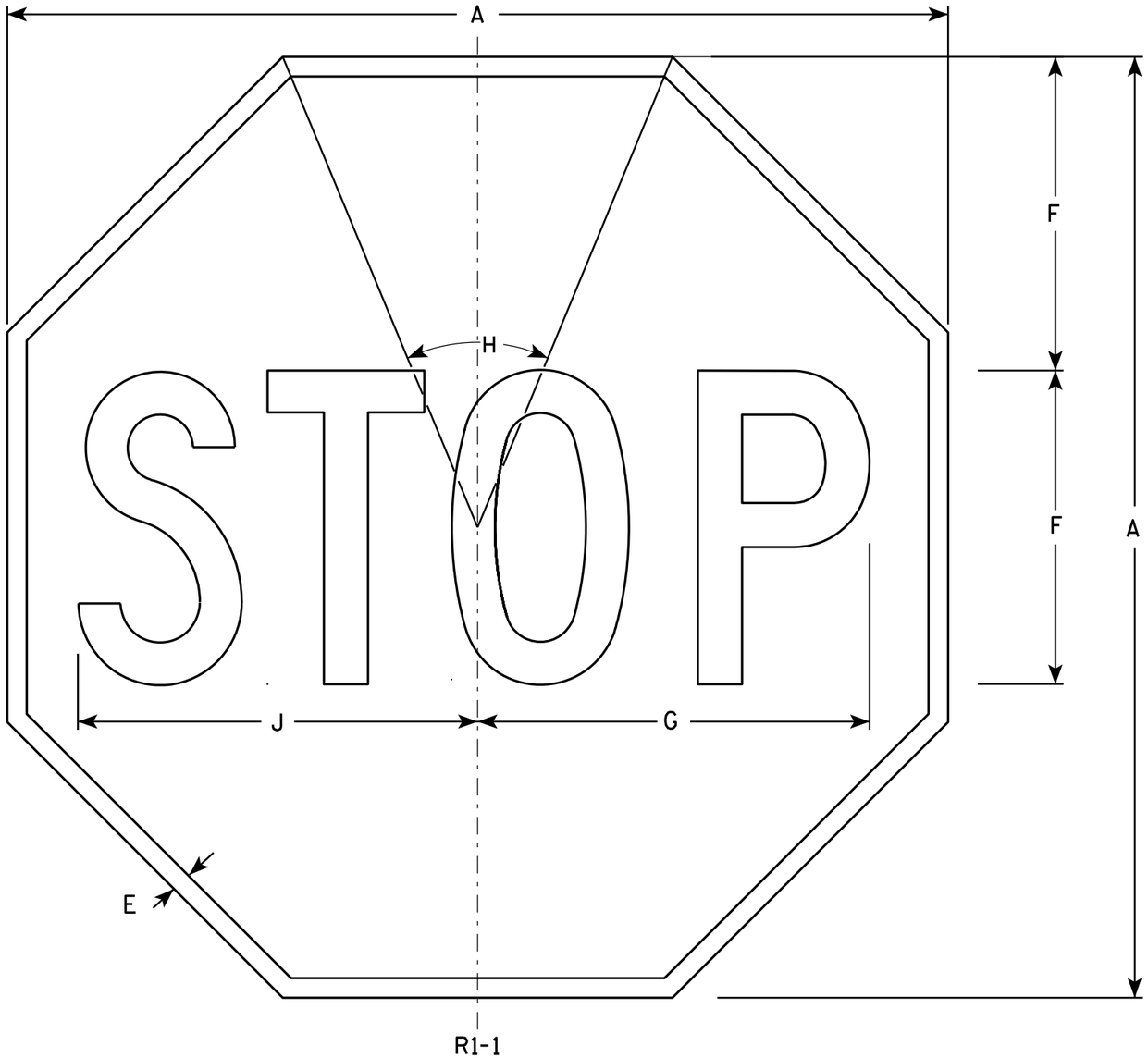
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/03/14 PLATE 486 M6-1.14

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E



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

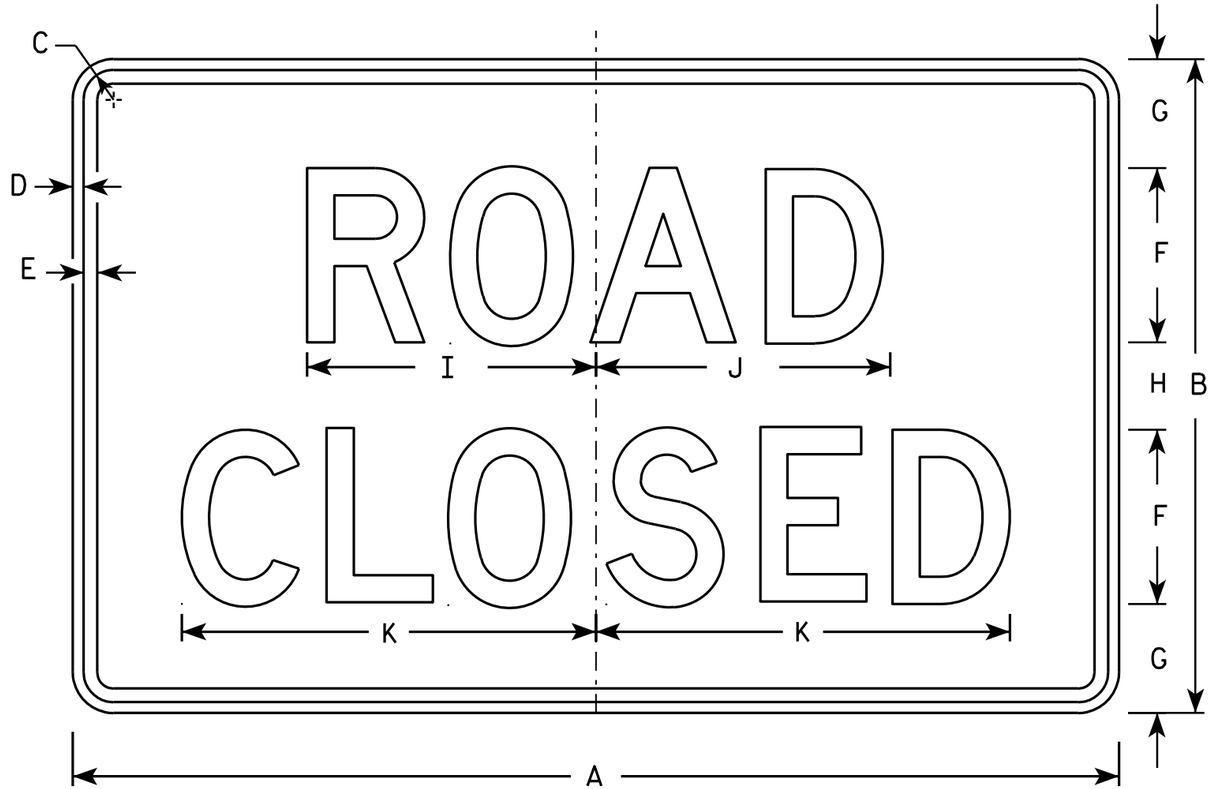
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

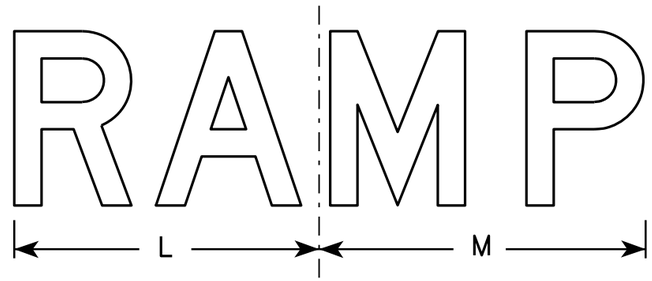
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 487	E



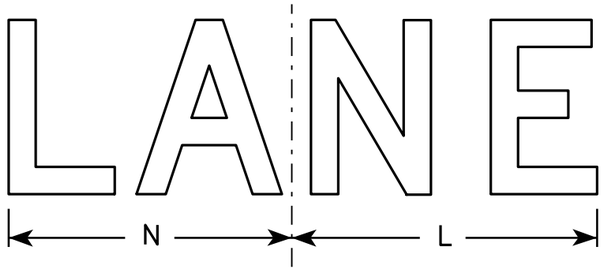
R11-2

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

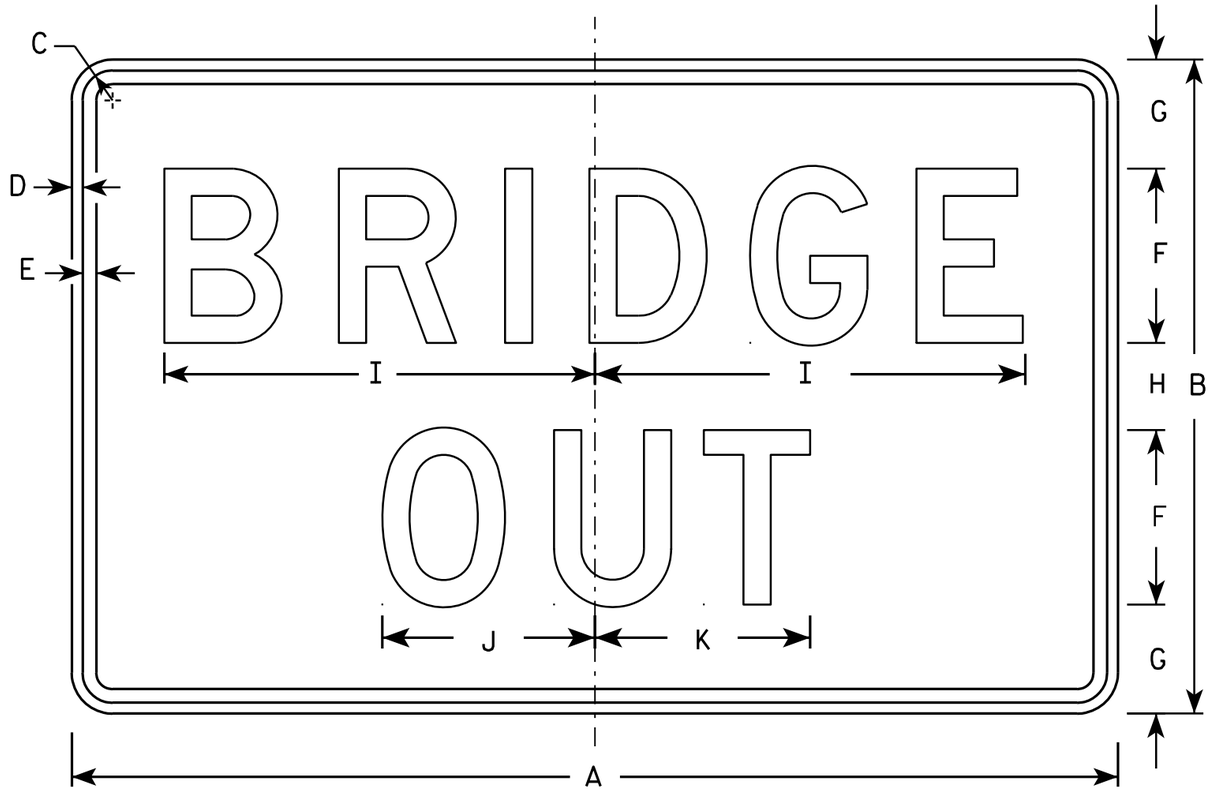
STANDARD SIGN
R11-2

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: 488	E



R11-2B

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.

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	19 3/4	9 3/4	9 7/8																10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0

STANDARD SIGN
R11-2B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2B.2

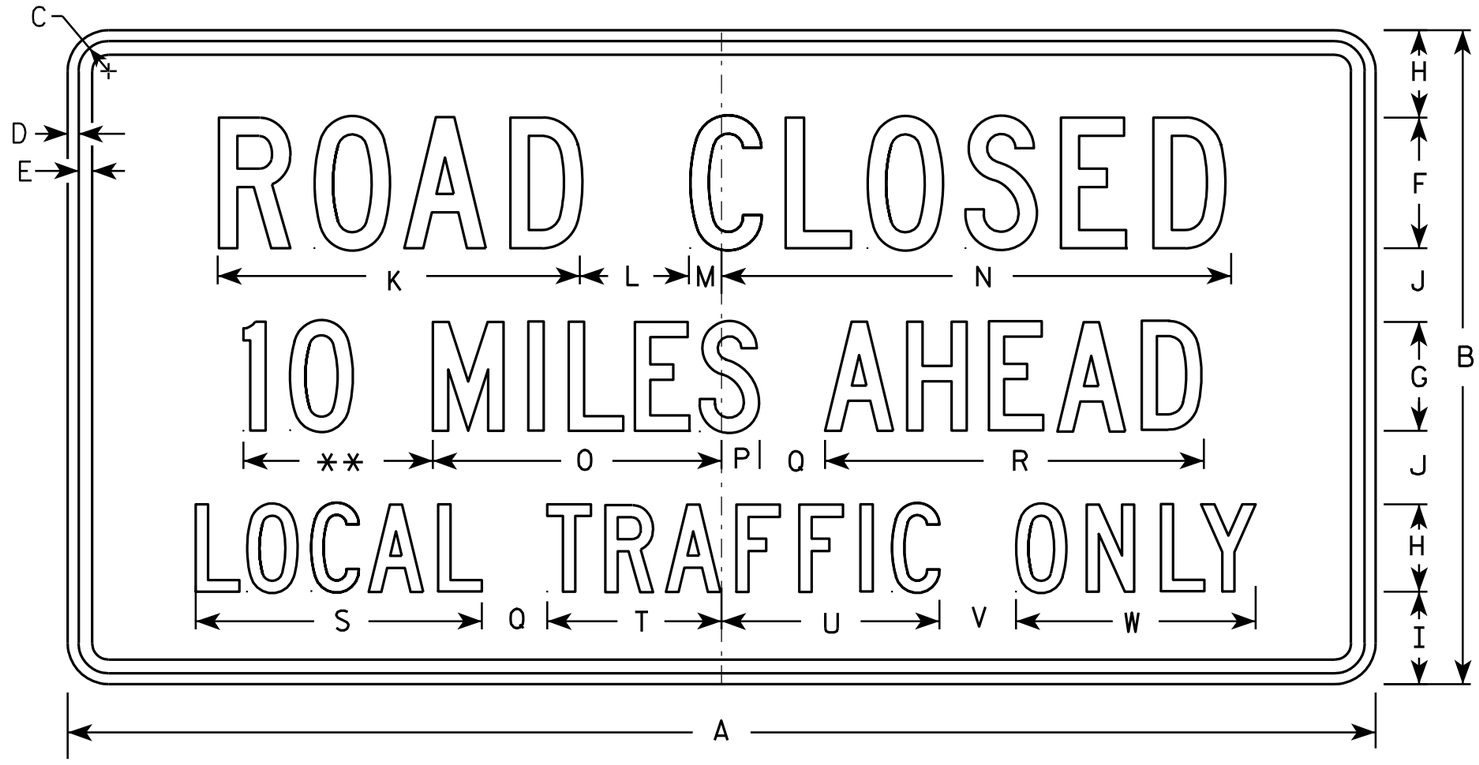
PROJECT NO:

SHEET NO: 489 E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112B.DGN PLOT DATE : 01-APR-2011 14:23 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42



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																											

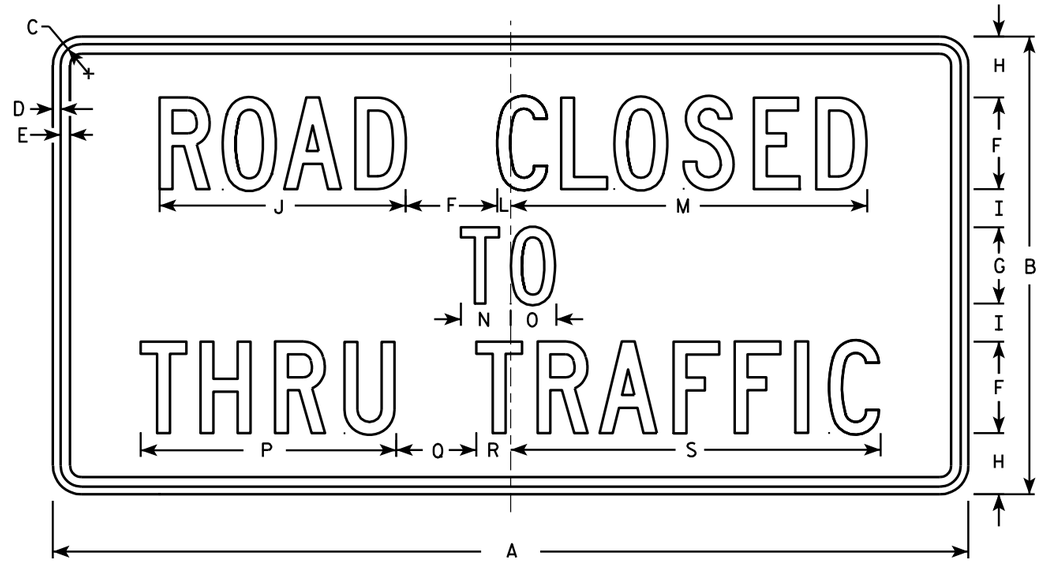
STANDARD SIGN
R11-3

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: 490 | 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																											

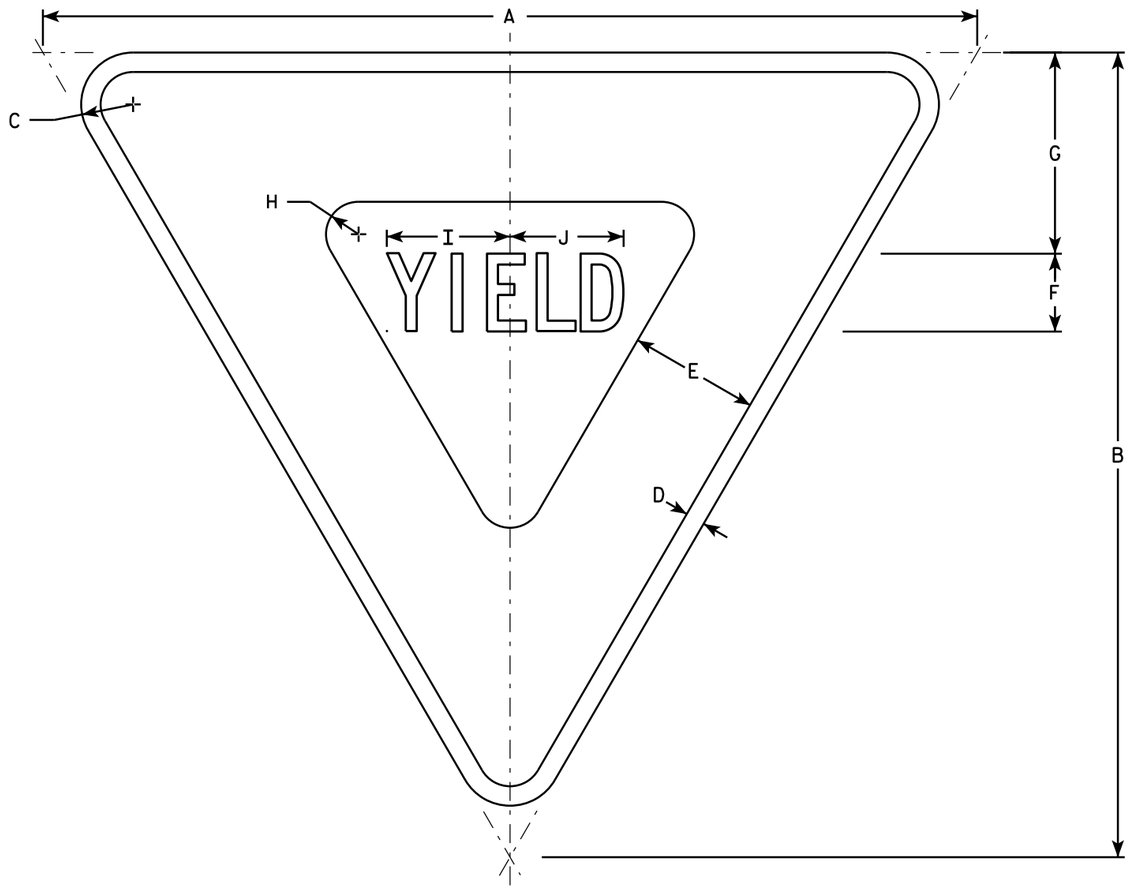
STANDARD SIGN
R11 - 4

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: 491	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																											
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

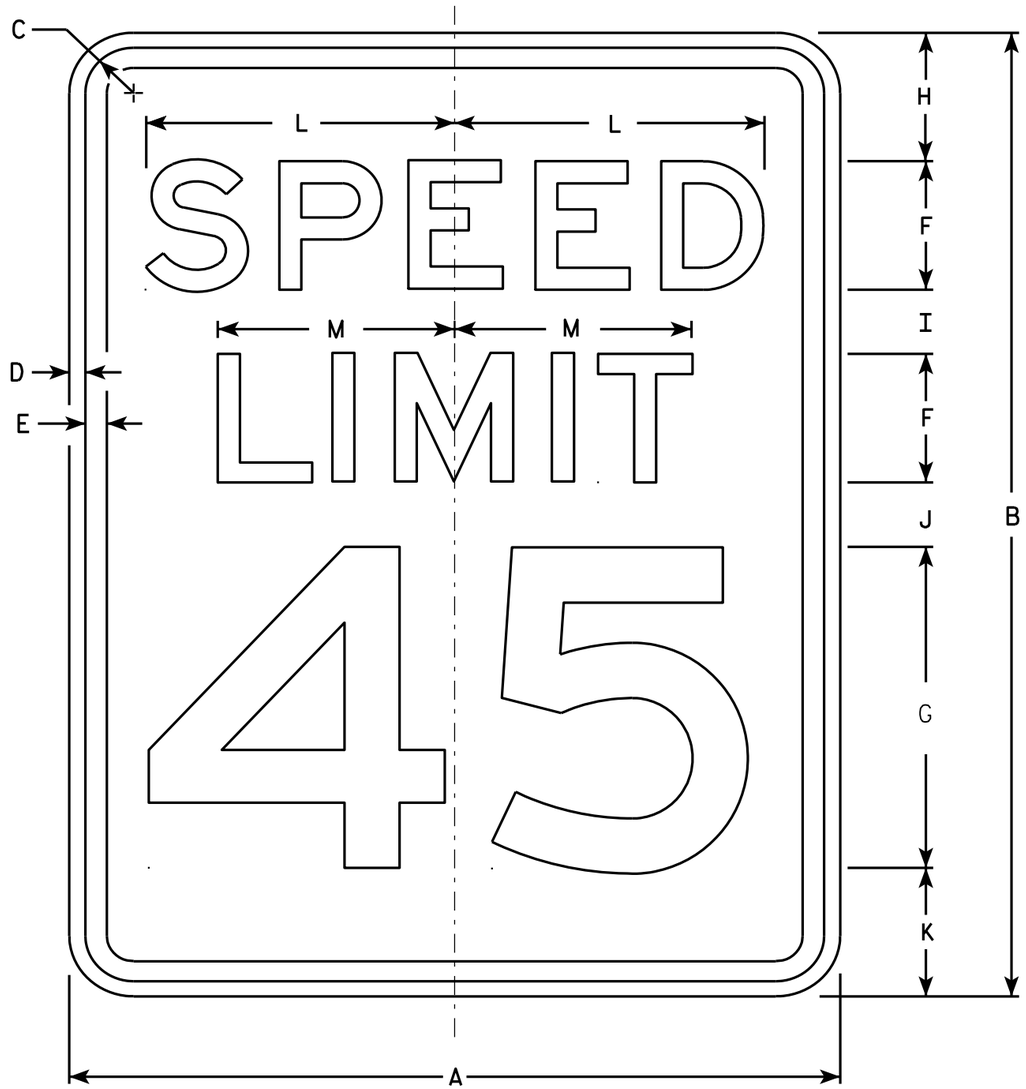
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



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

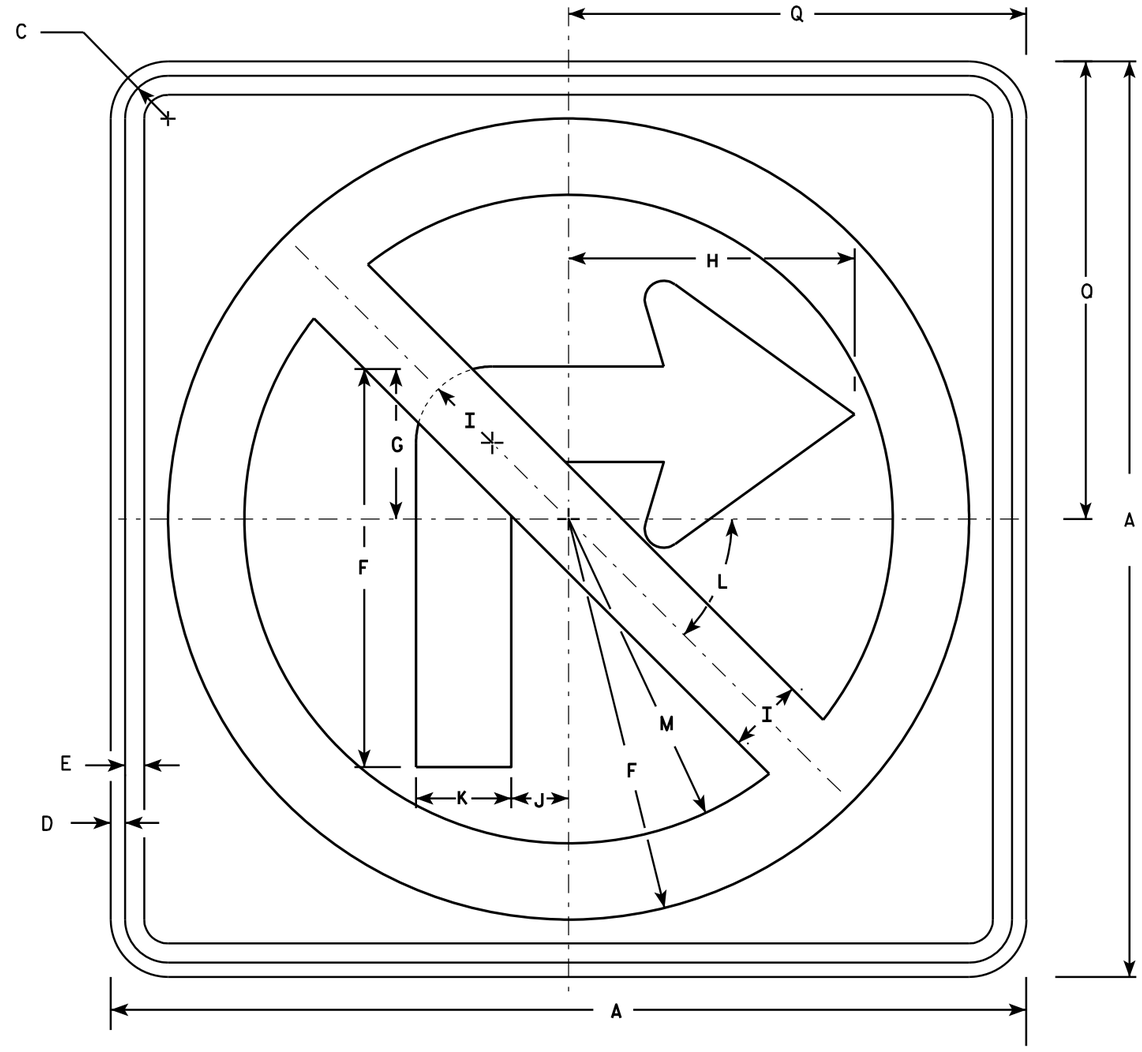
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

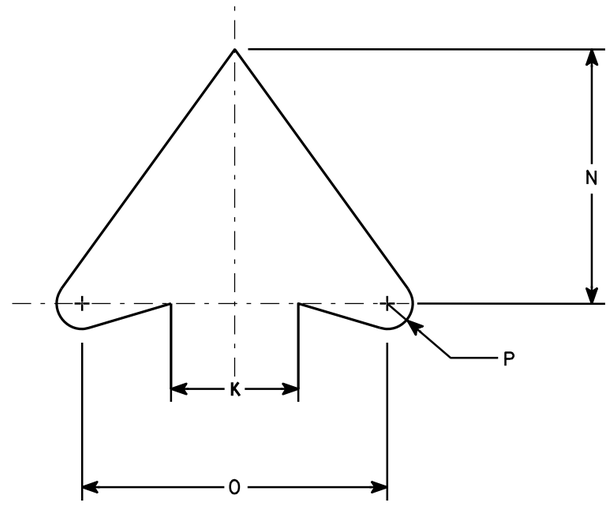
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 493	E



R3-1

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 - 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	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

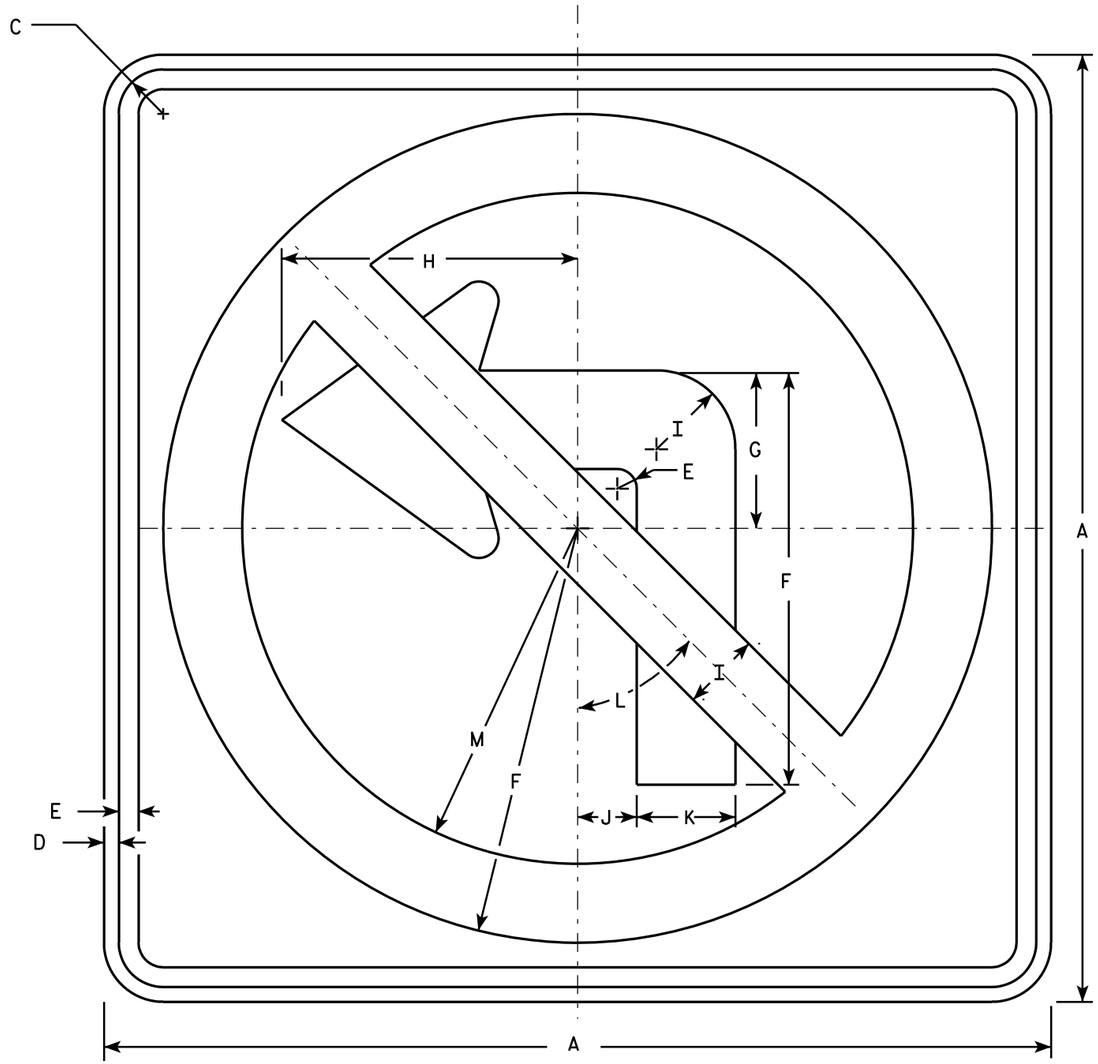
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

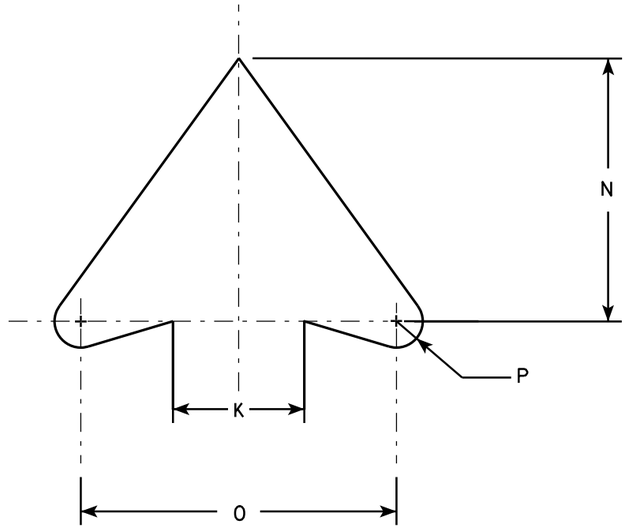
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 494	E



R3-2

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 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	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

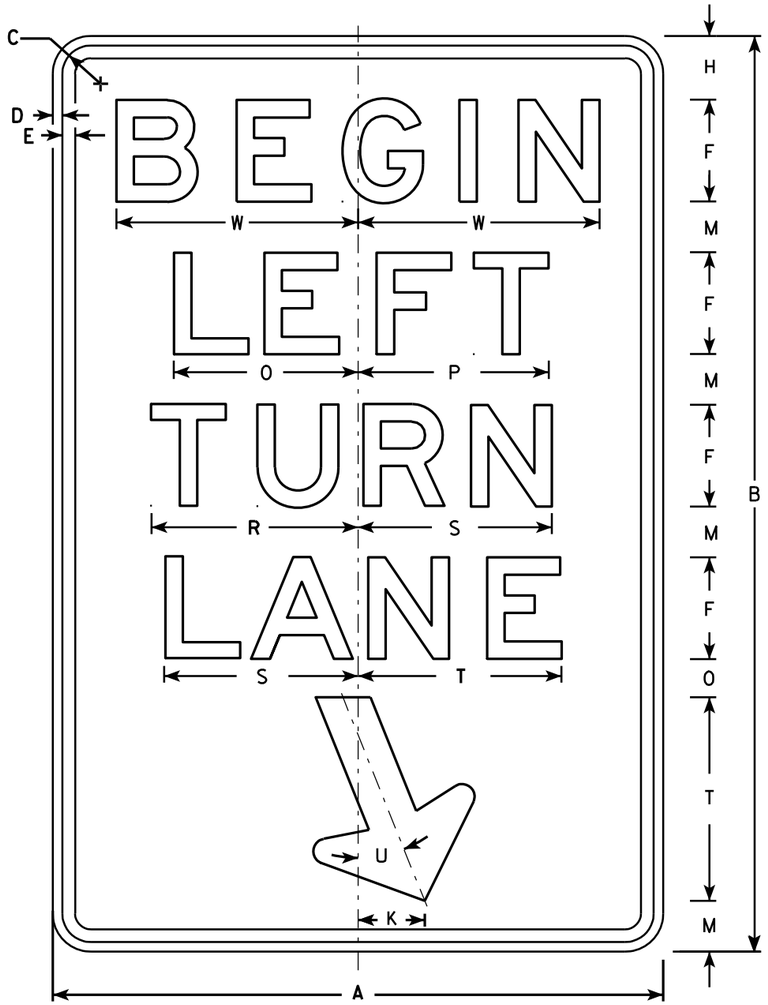
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

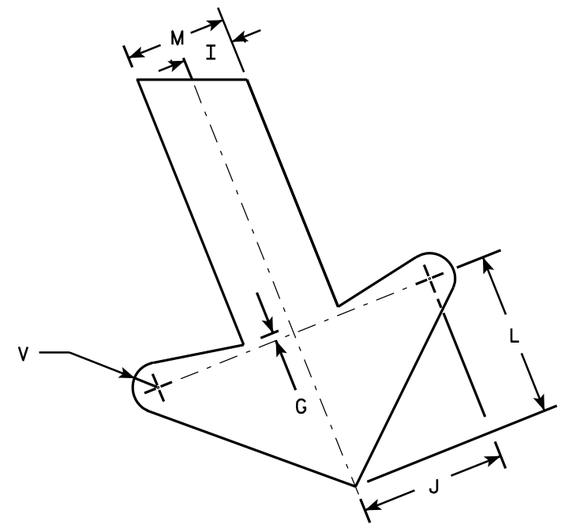
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 495	E



R3-20L

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.



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	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

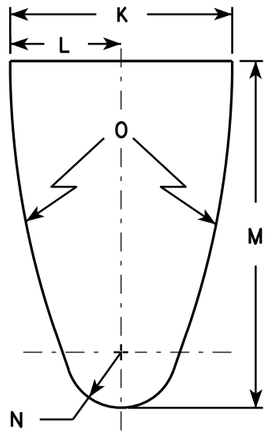
STANDARD SIGN
R3-20L

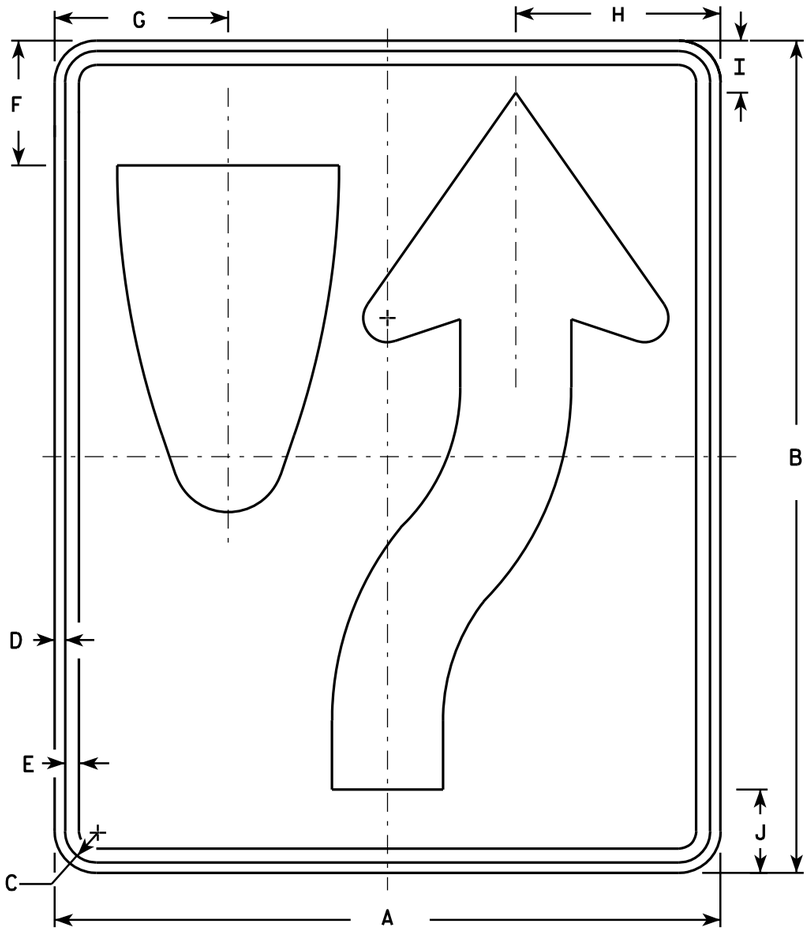
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 496 | E

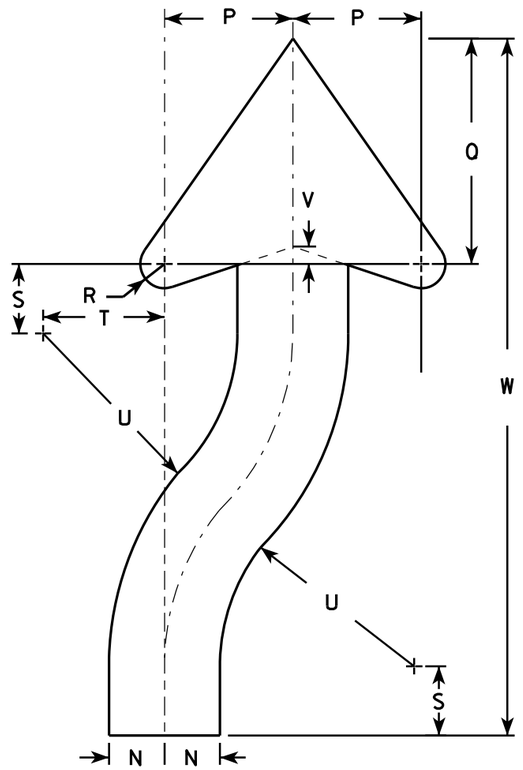




R4-7

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

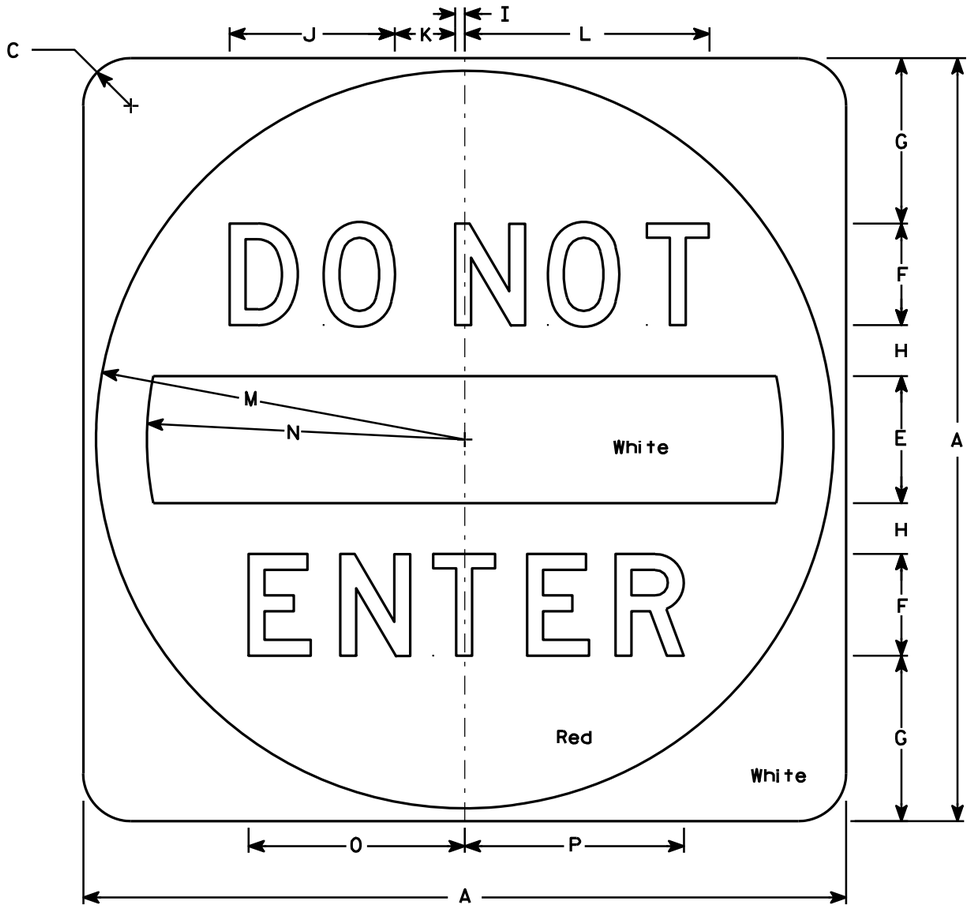
STANDARD SIGN
R4-7 & R4-8

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: 497	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

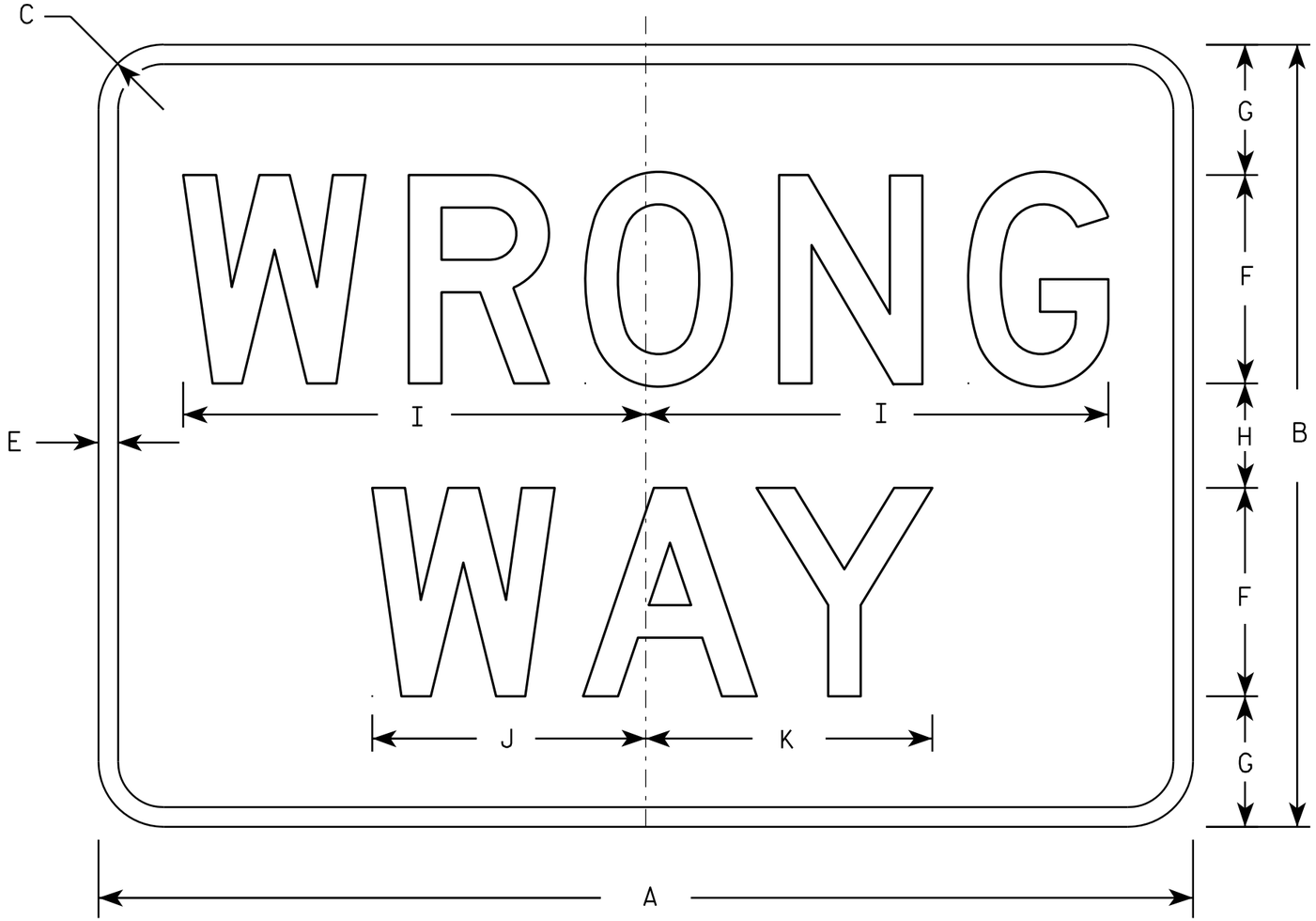
STANDARD SIGN
R5-1

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: 498 | E



R5-1A

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 - 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.

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	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

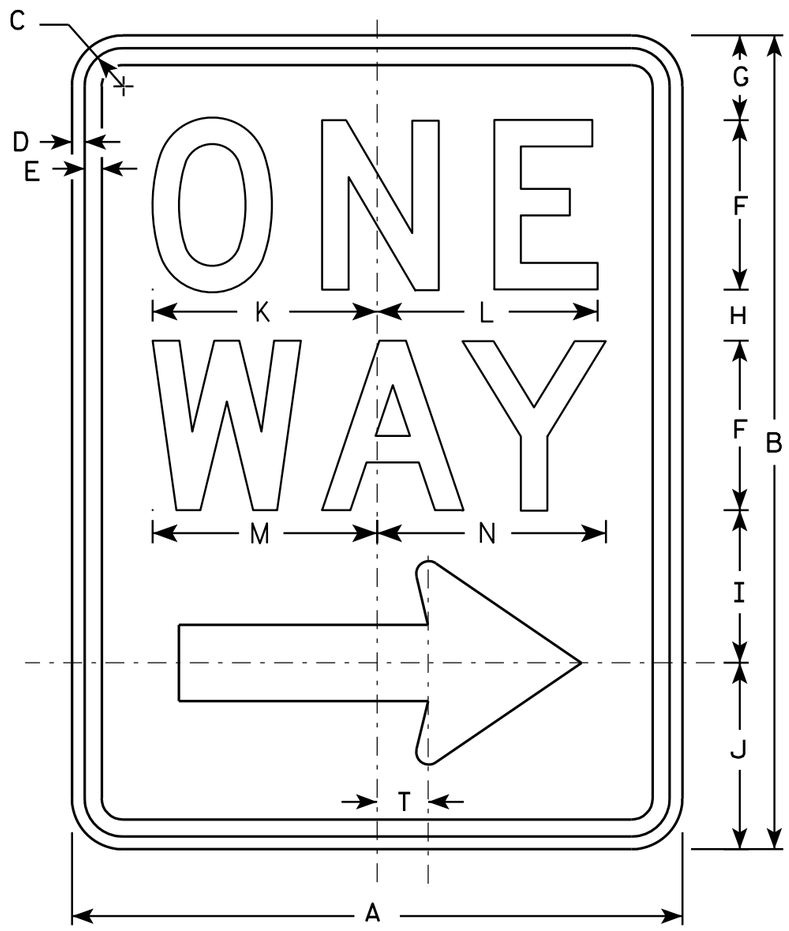
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 499 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R51A.DGN PLOT DATE : 17-DEC-2010 12:42 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.462457:1.000000

WISDOT/CADDS SHEET 42

7

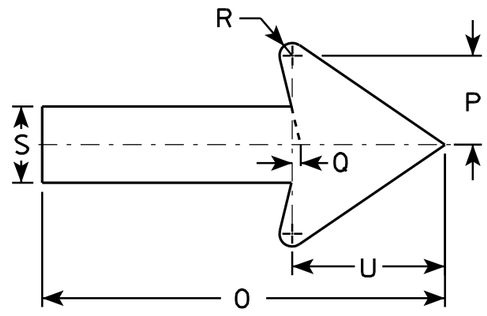
7



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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. R6-2L same as R6-2R except arrow points to the left.



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
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

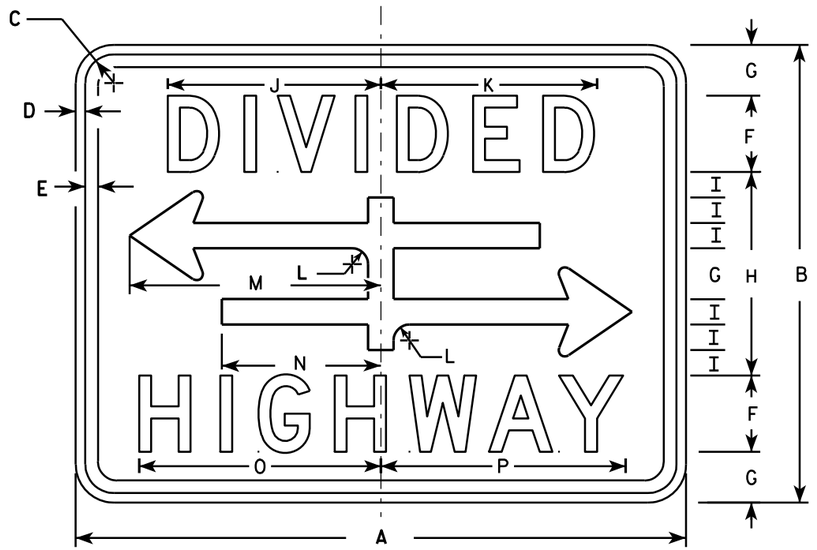
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

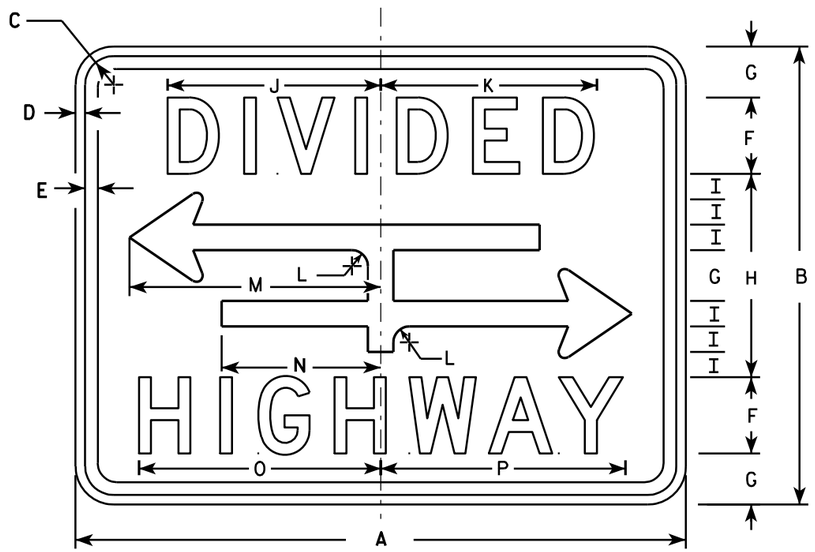
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 500	E



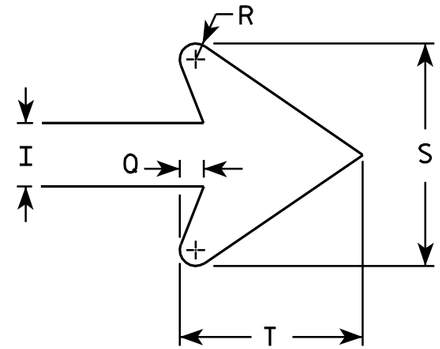
R6-3

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 - 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.



R6-3A



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	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

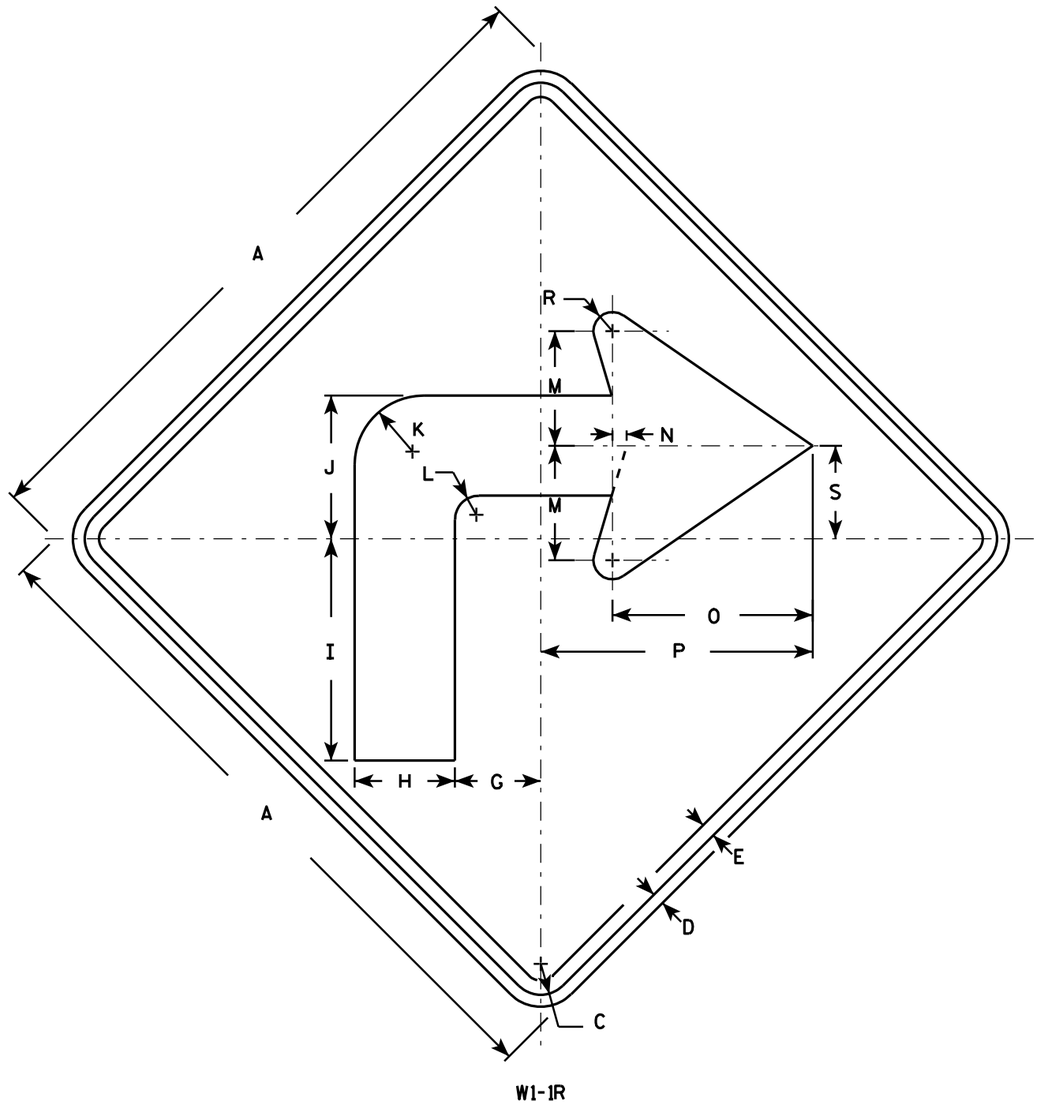
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

SHEET NO: 501 E



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

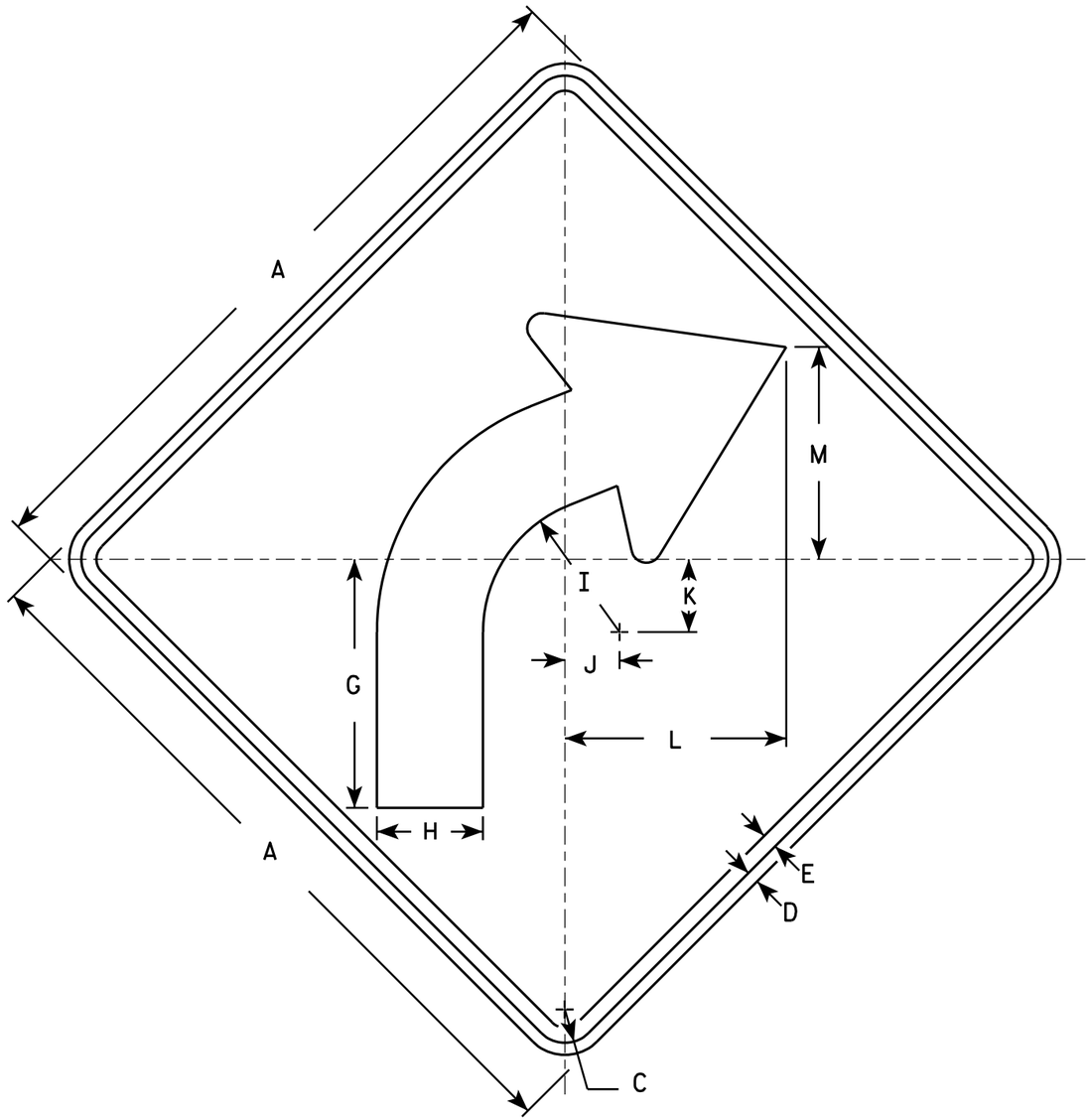
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-1.11

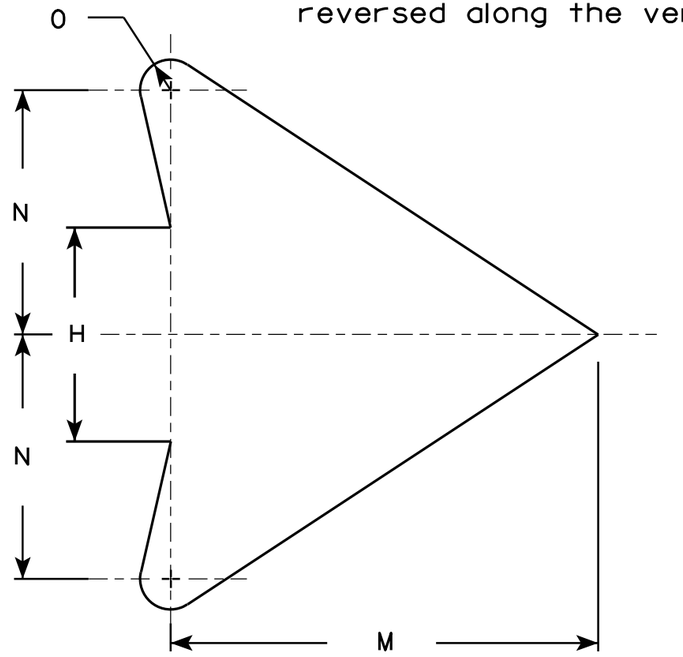
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 502 | E

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. 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. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



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	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

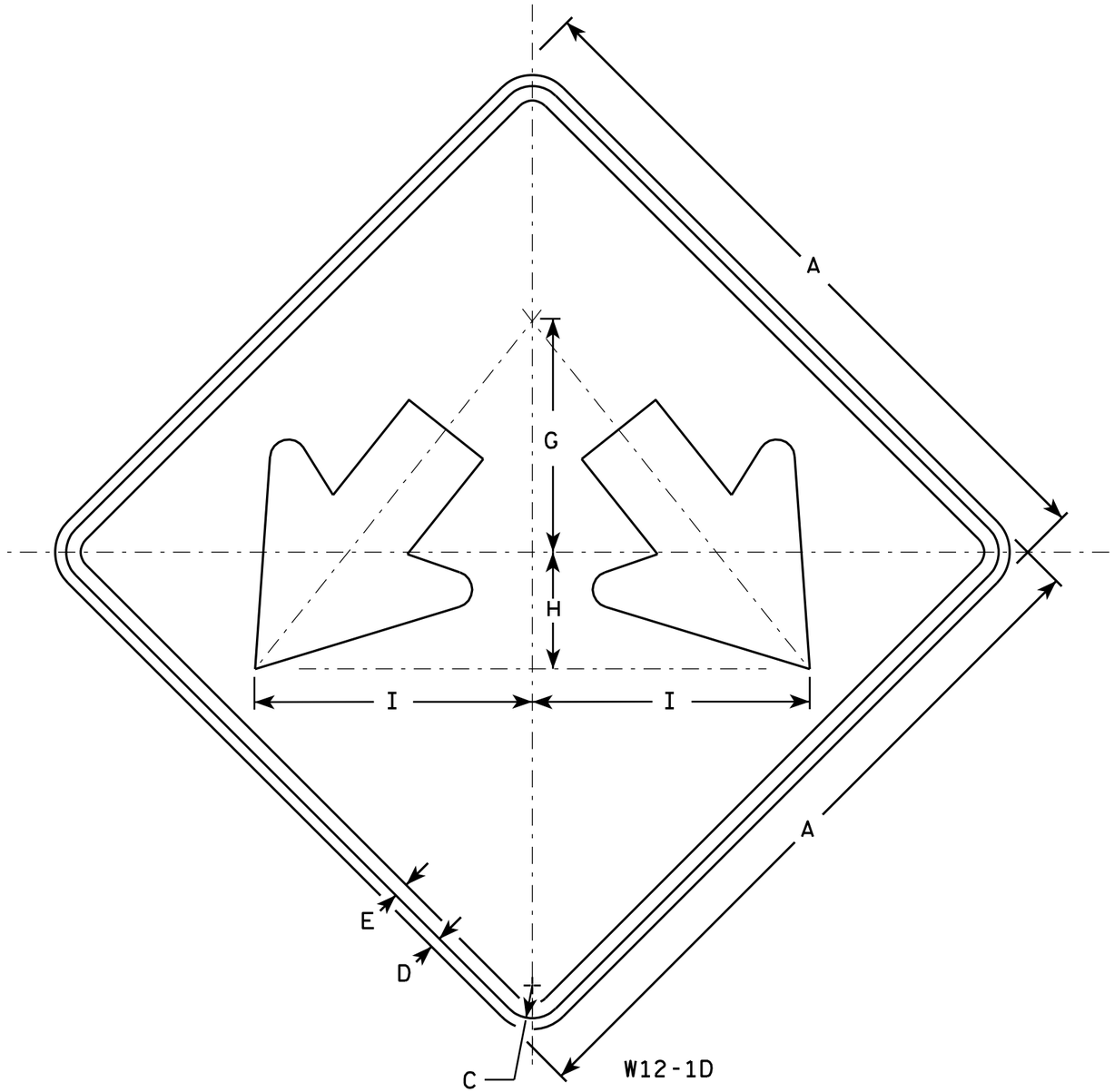
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

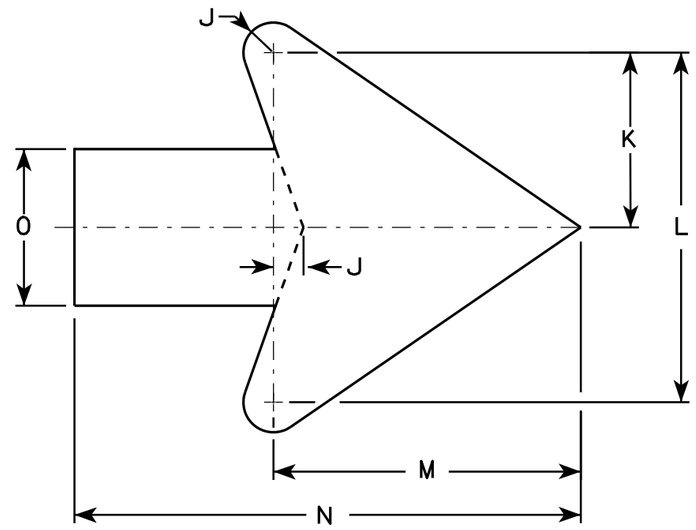
DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 503	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. 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																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

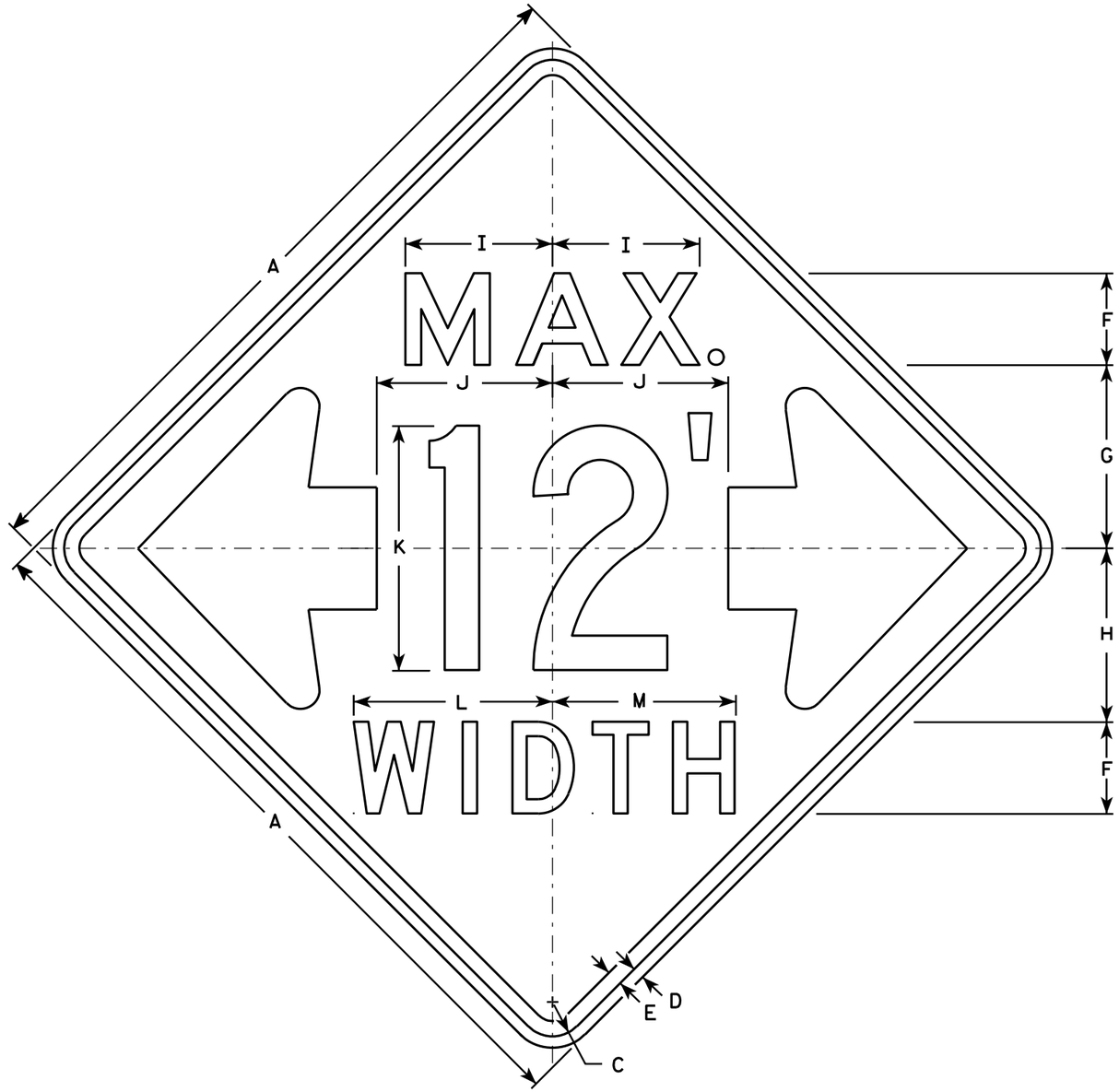
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

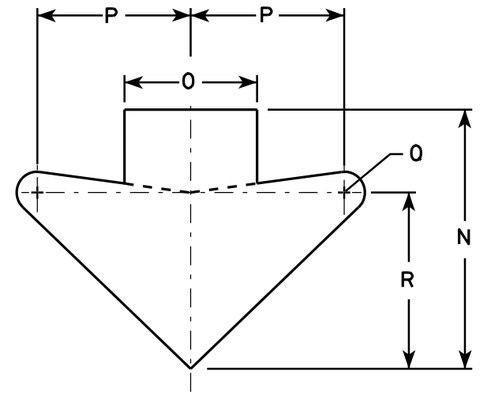
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 504	E



W12-52

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 - 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. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



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	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

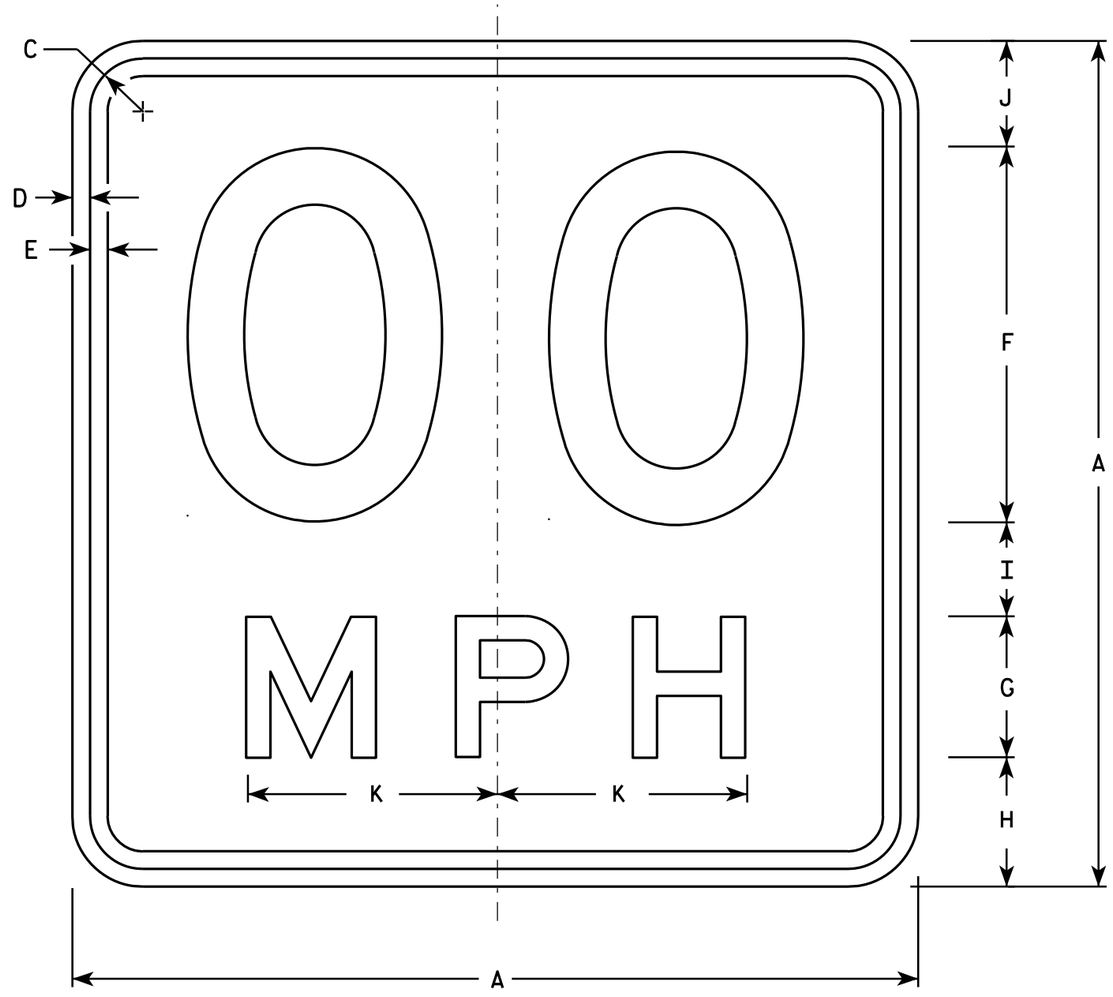
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 505 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

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 - 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. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	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		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

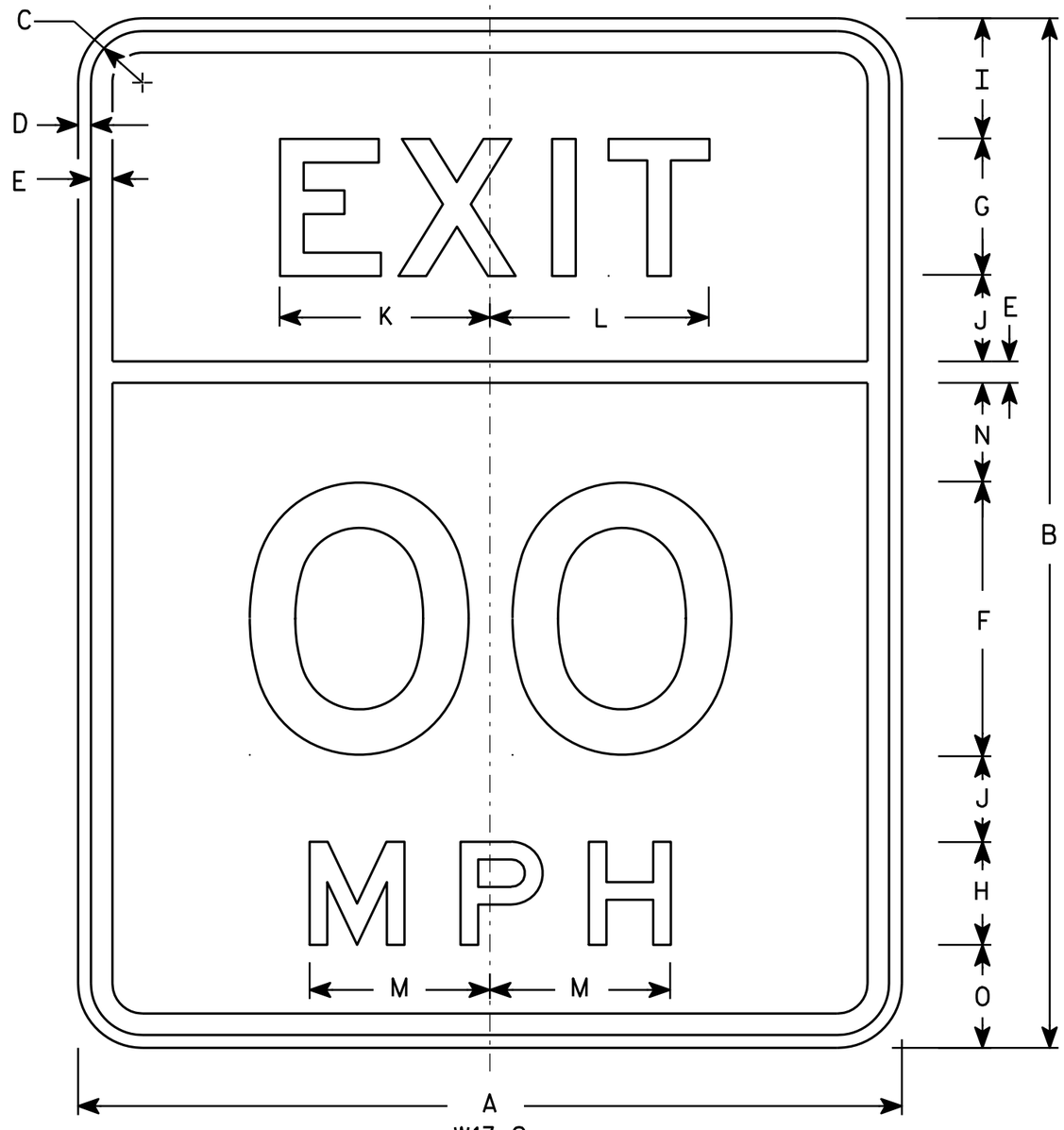
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 506 | E



W13-2

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 - 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 space about centerline 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																											
2S	24	30	1 1/2	3/8	5/8	8	4	3	3 1/2	2 1/2	6 1/8	6 3/8	5 1/4	2 7/8	3												5.0
2M	24	30	1 1/2	3/8	5/8	8	4	3	3 1/2	2 1/2	6 1/8	6 3/8	5 1/4	2 7/8	3												5.0
3	36	48	2 1/4	5/8	7/8	12	6	4	6	4	9 1/4	9 1/2	7 1/8	5 1/8	6												12.0
4	36	48	2 1/4	5/8	7/8	12	6	4	6	4	9 1/4	9 1/2	7 1/8	5 1/8	6												12.0
5	48	60	2 1/4	3/4	1	16	8	6	7	5	12 1/4	12 3/4	10 5/8	5 3/4	6												20.0

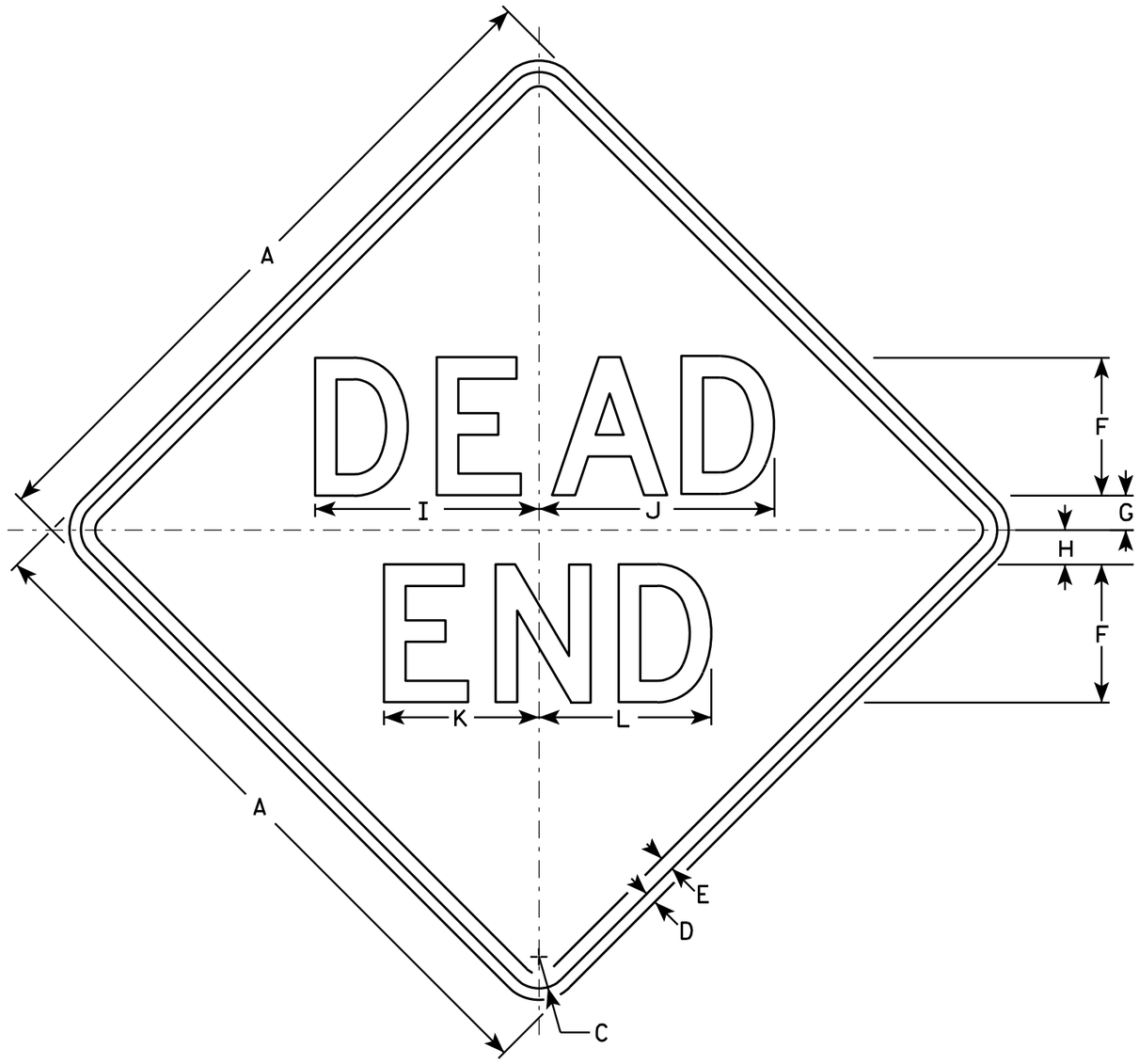
STANDARD SIGN
W13-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-2.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 507 | E



W14-1

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 - 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.

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	5	1	2	8 1/4	8 5/8	5 5/8	6 1/4															4.0
2S	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
2M	30		1 3/8	1/2	5/8	6	1 1/2	2 1/2	9 3/4	10 1/4	6 3/4	7 1/2															6.25
3	36		1 5/8	5/8	3/4	7	2	3	11 3/8	12	7 7/8	8 3/4															9.0
4																											
5																											

STANDARD SIGN
W14-1

WISCONSIN DEPT OF TRANSPORTATION

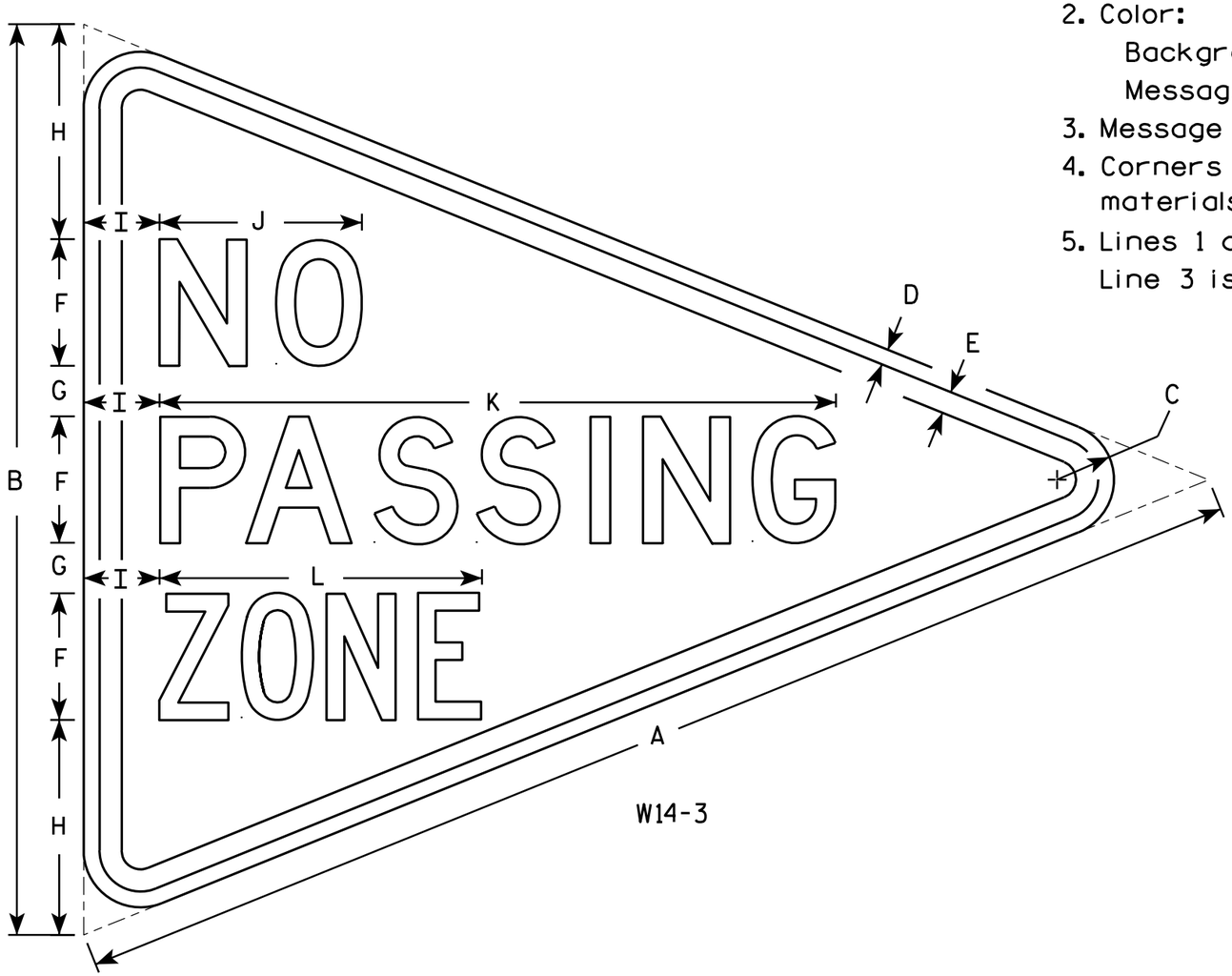
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W14-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 508	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 - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

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	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

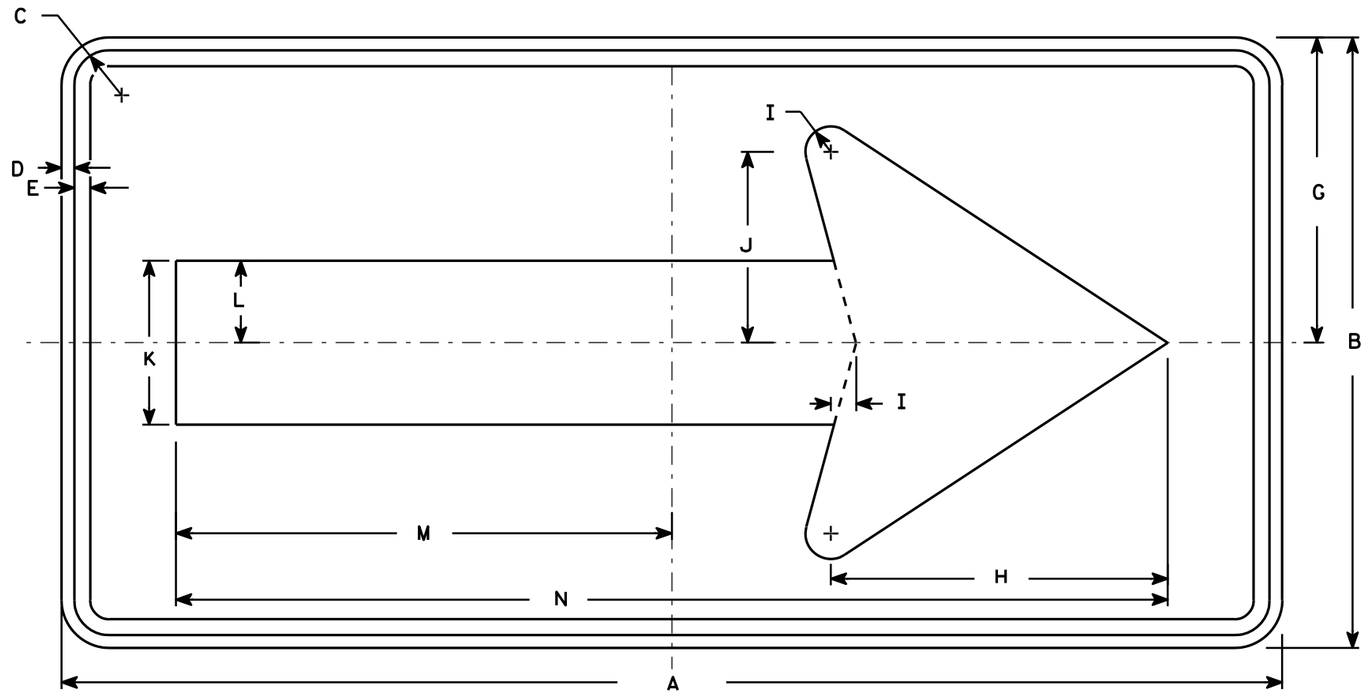
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 509	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

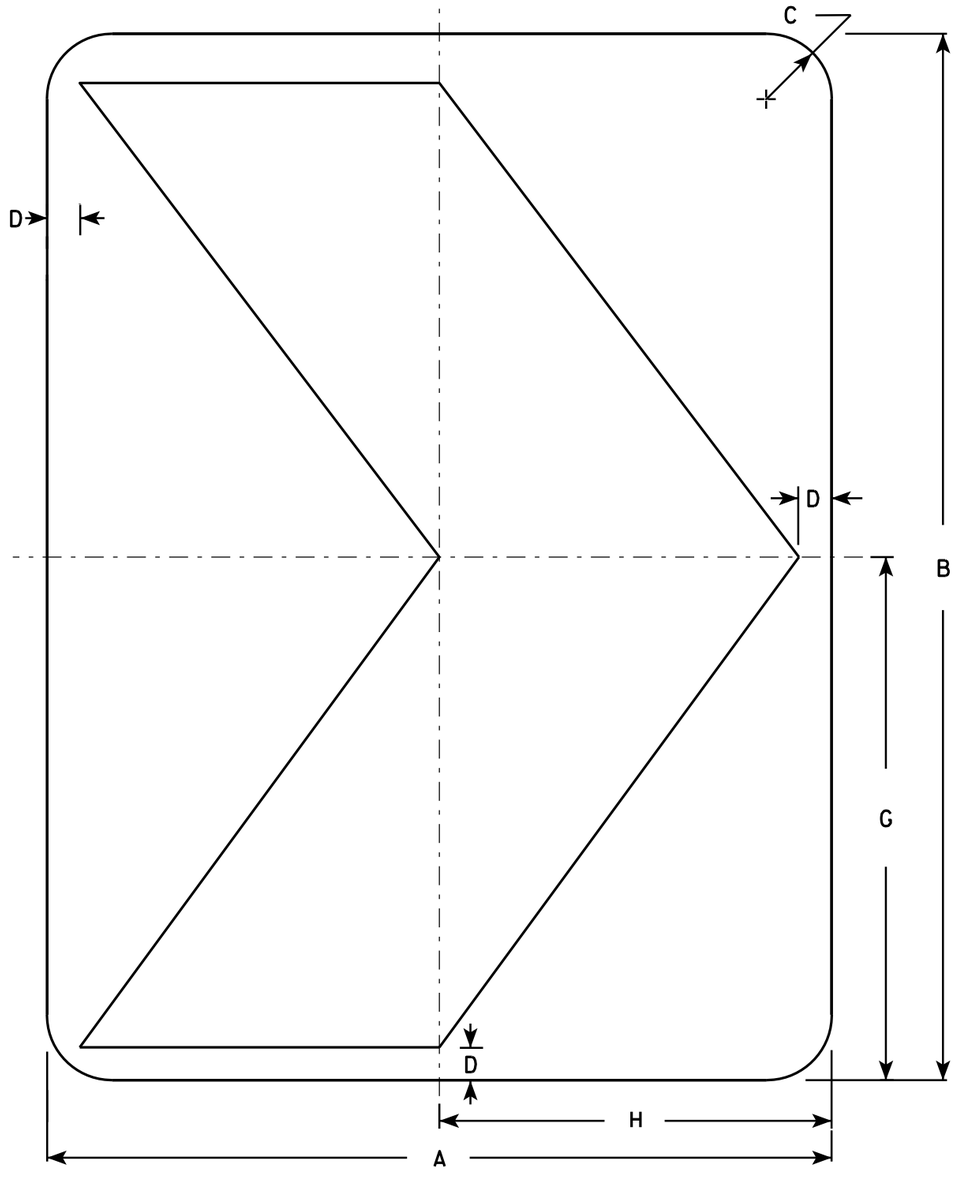
STANDARD SIGN
W1-6

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: 510



W1-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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	12	18	1 ½	½			9	6																			1.5
2S	18	24	1 ½	¾			12	9																			3.0
2M	18	24	1 ½	¾			12	9																			3.0
3	24	30	1 ½	1			15	12																			5.0
4	30	36	1 ⅞	1 ¼			18	15																			7.5
5	36	48	2 ¼	1 ½			24	18																			12.0

STANDARD SIGN
W1-8

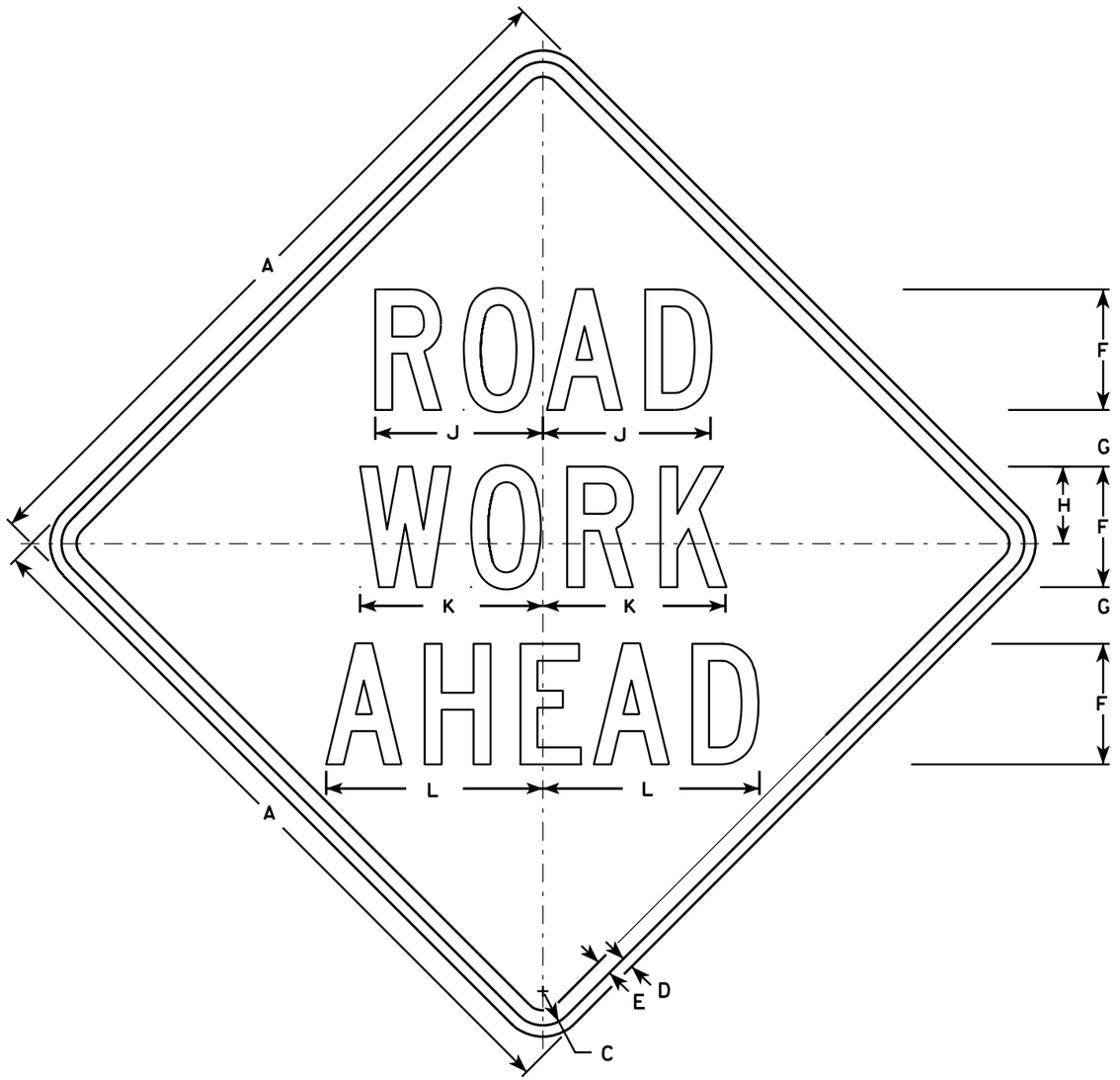
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

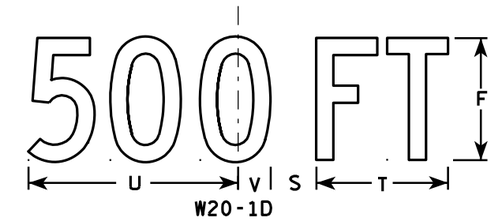
DATE 6/7/10 PLATE NO. W1-8.6

PROJECT NO:

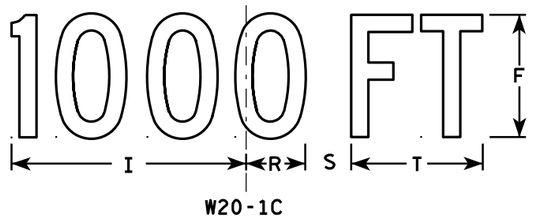
SHEET NO: 511 E



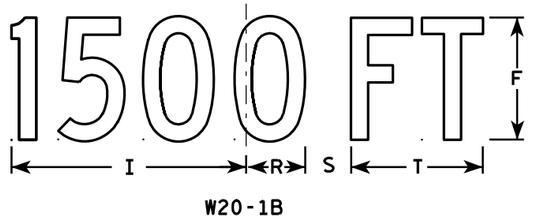
W20-1A



W20-1D



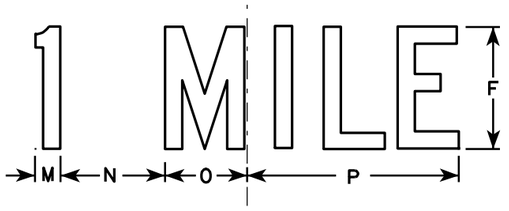
W20-1C



W20-1B



W20-1G



W20-1F

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.

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		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	1 7/8	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8		3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-1.9

PROJECT NO:

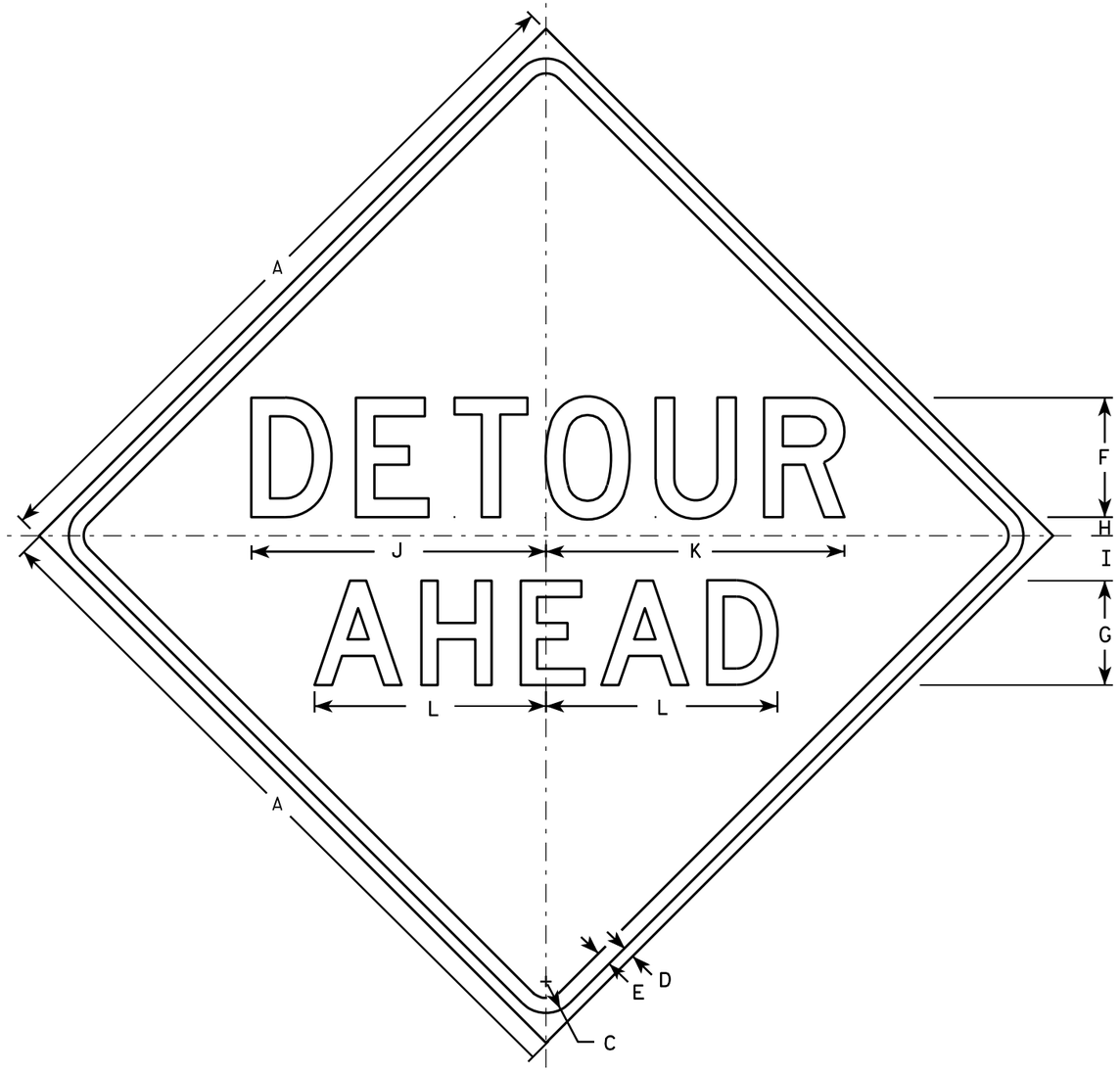
SHEET NO: 512 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W201.DGN PLOT DATE : 18-MAR-2011 09:56 PLOT BY : mscj9h

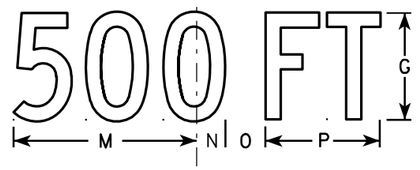
WISDOT/CADDS SHEET 42

7

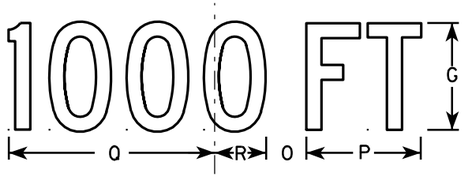
7



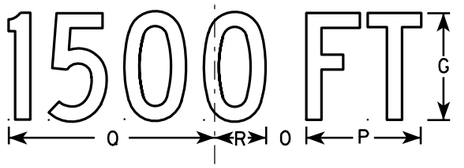
W20-2A



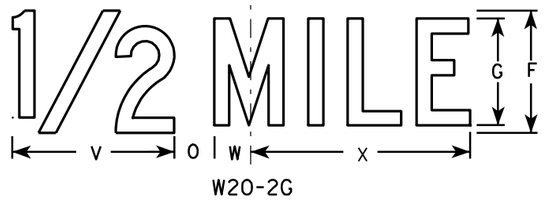
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

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 - 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. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

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.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

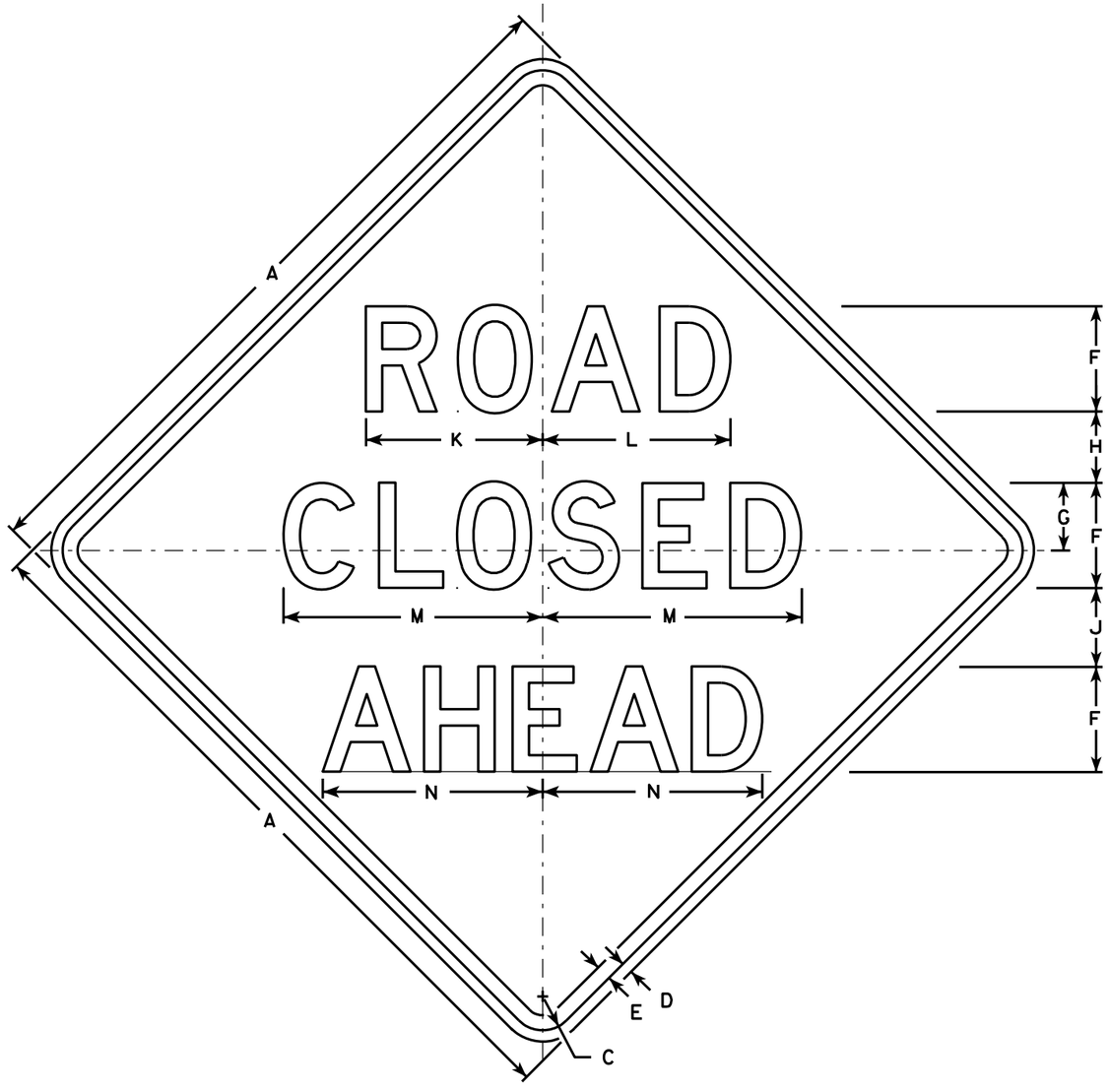
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

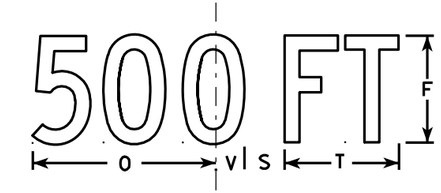
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

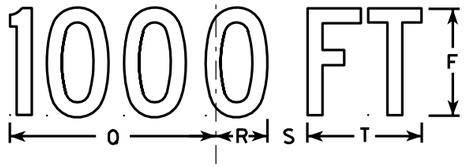
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 513	E



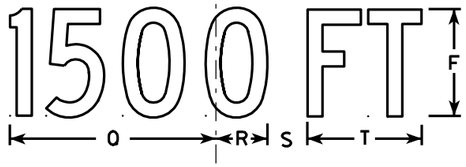
W20-3A



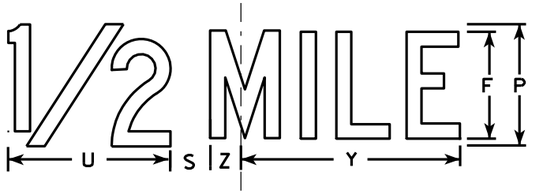
W20-3D



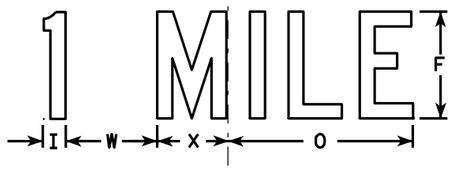
W20-3C



W20-3B



W20-3G



W20-3F

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 - 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 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

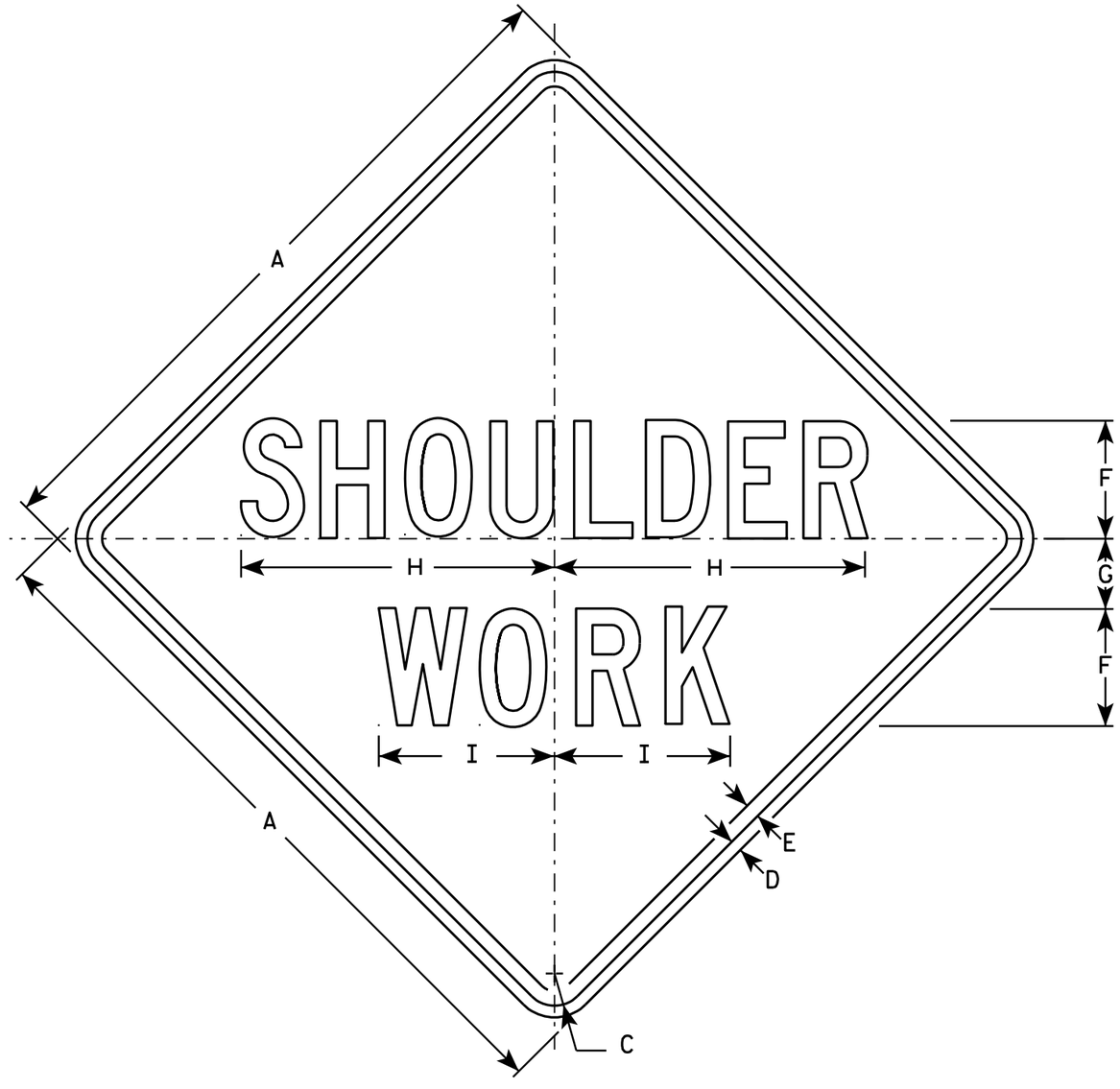
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 514 | E



W21-5

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.

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	4	2 1/2	10 3/4	6																		4.0
2S	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	3	13 3/8	7 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3 1/2	16	9																		9.0
4	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		2 1/4	3/4	1	8	5	21 3/8	11 1/4																		16.0

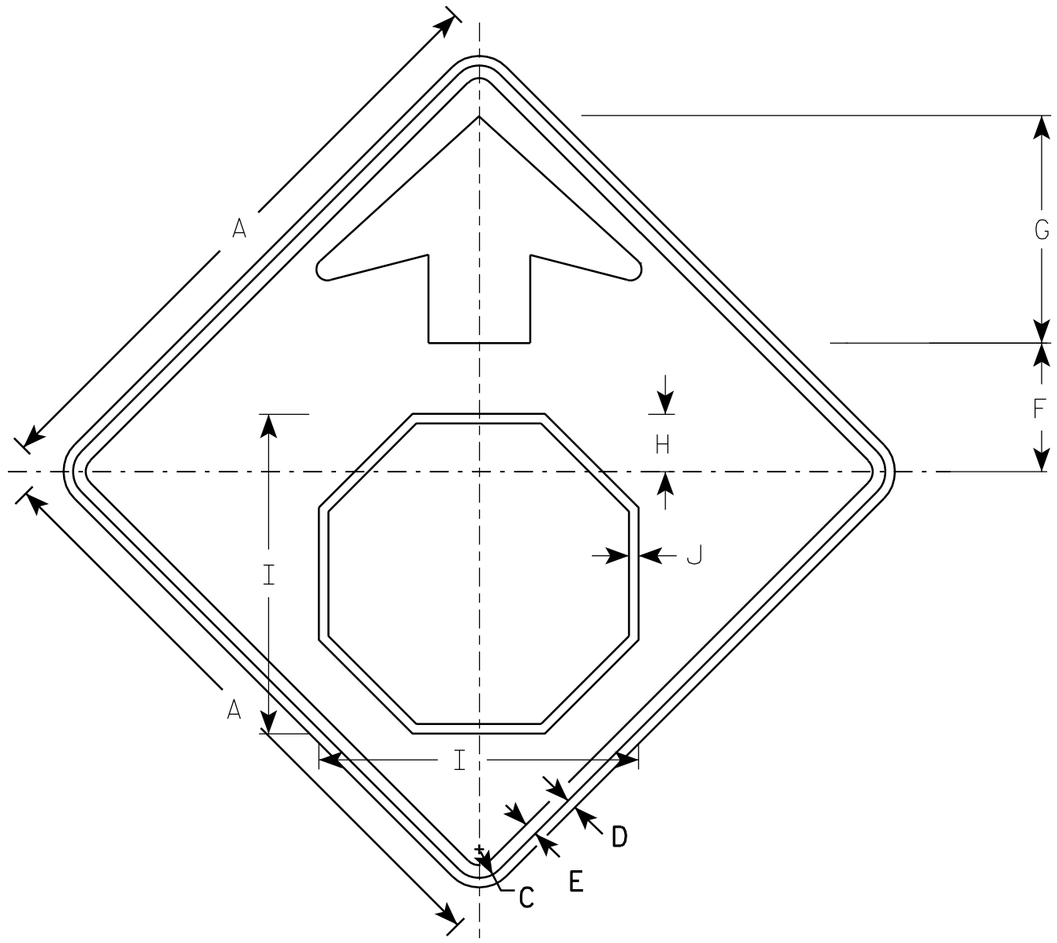
STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-5.5

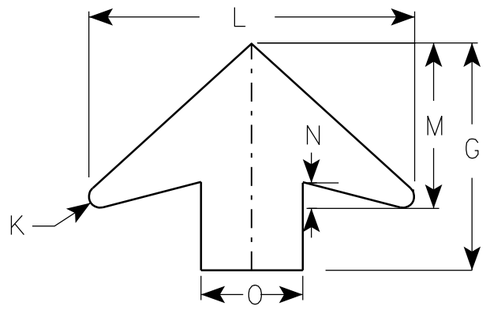
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 515	E



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

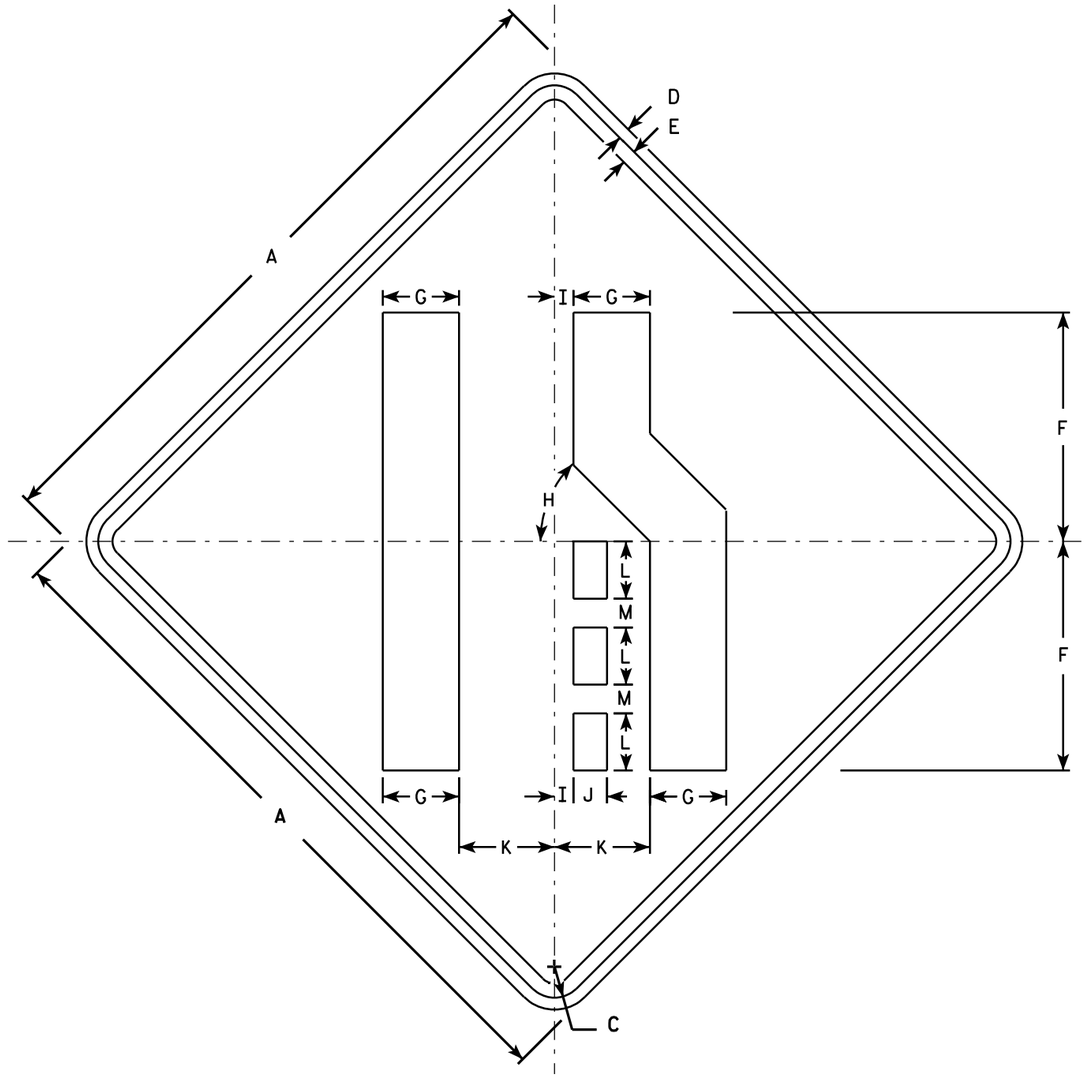
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 516 E



W4-2R

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. 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

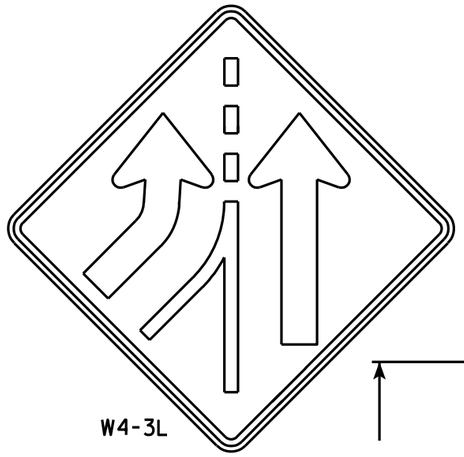
WISCONSIN DEPT OF TRANSPORTATION

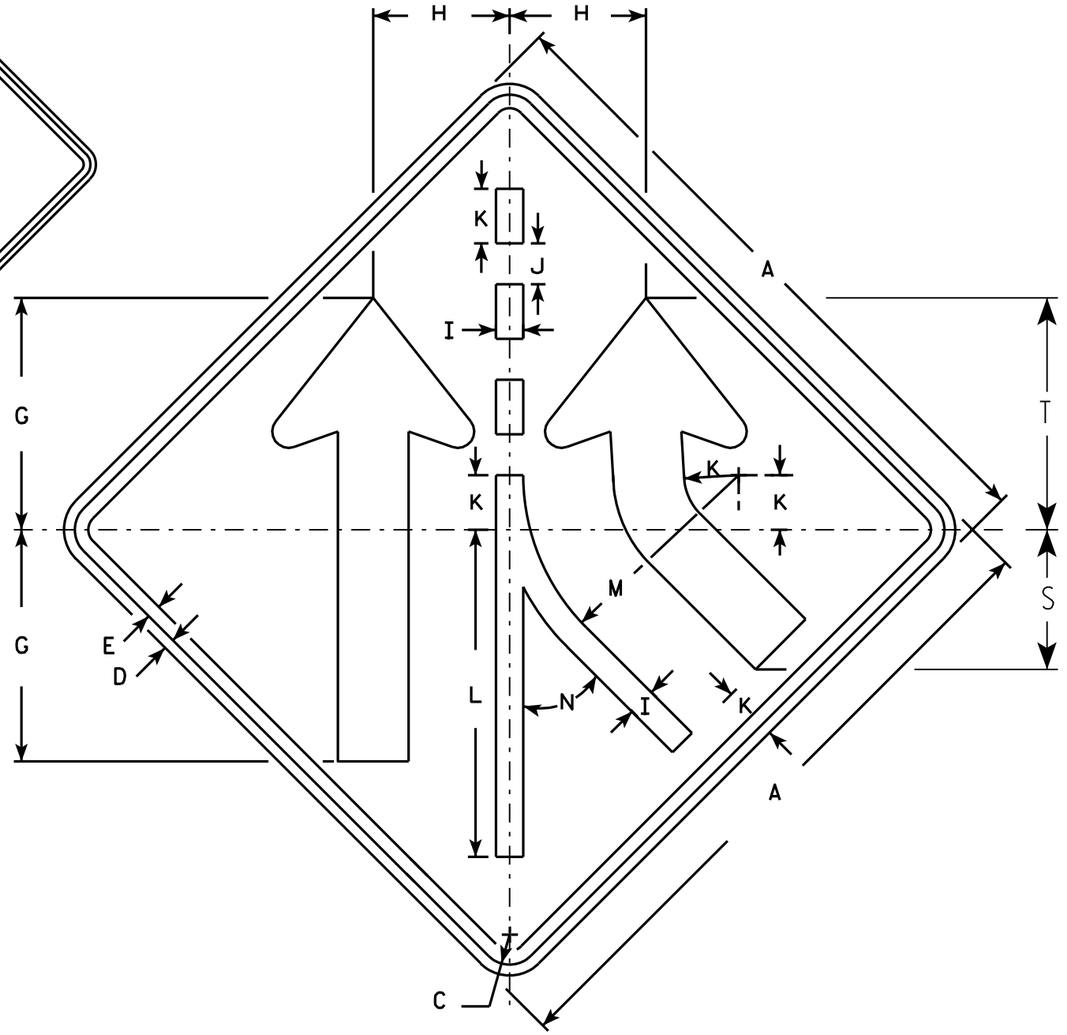
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

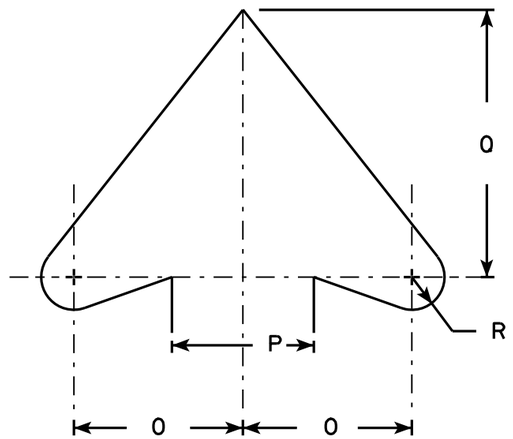
SHEET NO: 517 E





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. 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. W4-3 L is the same as W4-3 R except the arrow is reversed along the vertical centerline.



ARROW DETAIL

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.
1	30		1 3/8	1/2	5/8		10 5/8	6 1/4	1 1/4	1 7/8	2 1/2	15	9 7/8	45°	3 7/8	3 1/4	6 1/8	3/4	6 3/8	10 5/8							6.25
2S	36		1 5/8	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 7/8	45°	4 5/8	4	7 3/8	7/8	7 3/4	12 3/4							9.0
2M	36		1 5/8	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 7/8	45°	4 5/8	4	7 3/8	7/8	7 3/4	12 3/4							9.0
3																											
4	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
5	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0

STANDARD SIGN
W4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-3.8

PROJECT NO:

SHEET NO: 518 E



W4-4P

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 - 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	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	8	1 1/2	3/8	10	6 1/4	2 1/4	2 1/4	6 1/4											2.0
3	36	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	10 3/4	2 3/8	3/8	13 1/2	8 3/8	3	3 1/8	8 3/8											3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	13 3/8	3 1/8	3/8	16 7/8	10 1/2	3 5/8	3 7/8	10 3/8											5.25
5																											

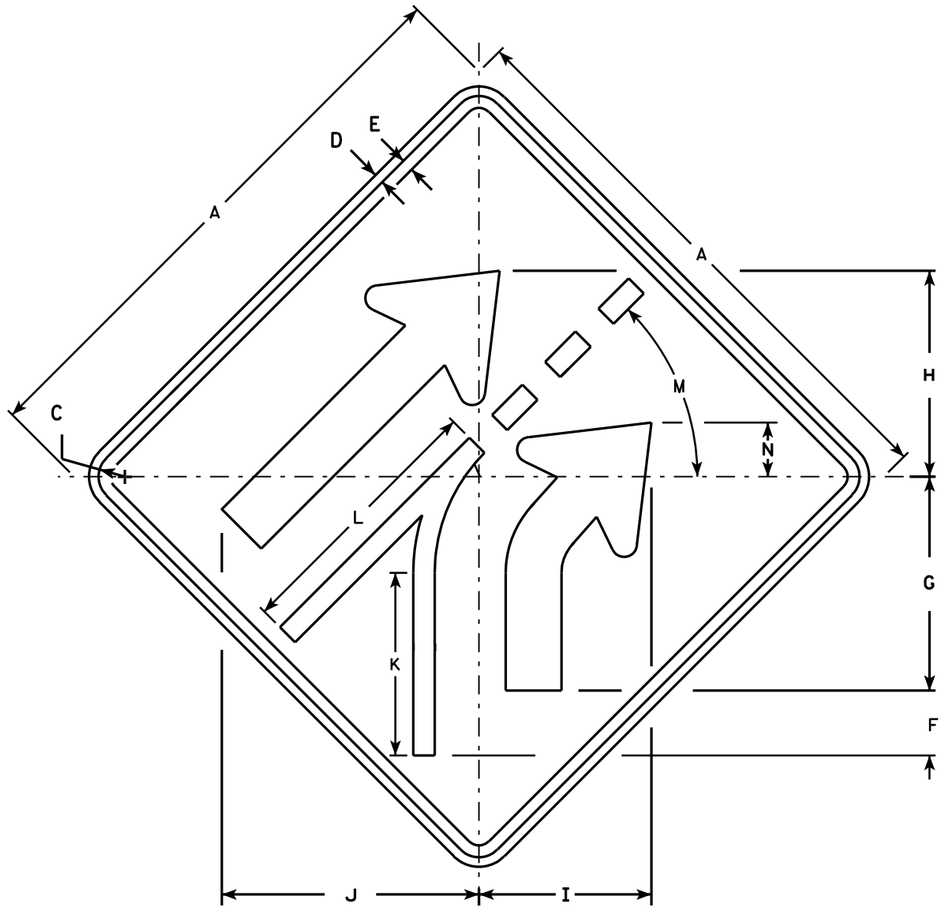
STANDARD SIGN
W4-4P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4P.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 519	E



W4-6

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.

* Scale and Rotate W4-3 and make modifications.

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	3 3/8	11 1/4	10 3/4	9	13 1/2	9 1/2	14	45°	2 7/8													6.25
2S	36		1 5/8	5/8	3/4	4	13 1/2	13	10 7/8	16 1/4	11 1/2	16 7/8	45°	3 3/8													9.0
2M	36		1 5/8	5/8	3/4	4	13 1/2	13	10 7/8	16 1/4	11 1/2	16 7/8	45°	3 3/8													9.0
3																											
4	48		2 1/4	3/4	1	5 3/8	18	17 1/4	14 1/2	21 5/8	15 1/4	22 1/2	45°	4 1/2													16.0
5	48		2 1/4	3/4	1	5 3/8	18	17 1/4	14 1/2	21 5/8	15 1/4	22 1/2	45°	4 1/2													16.0

STANDARD SIGN
W4-6

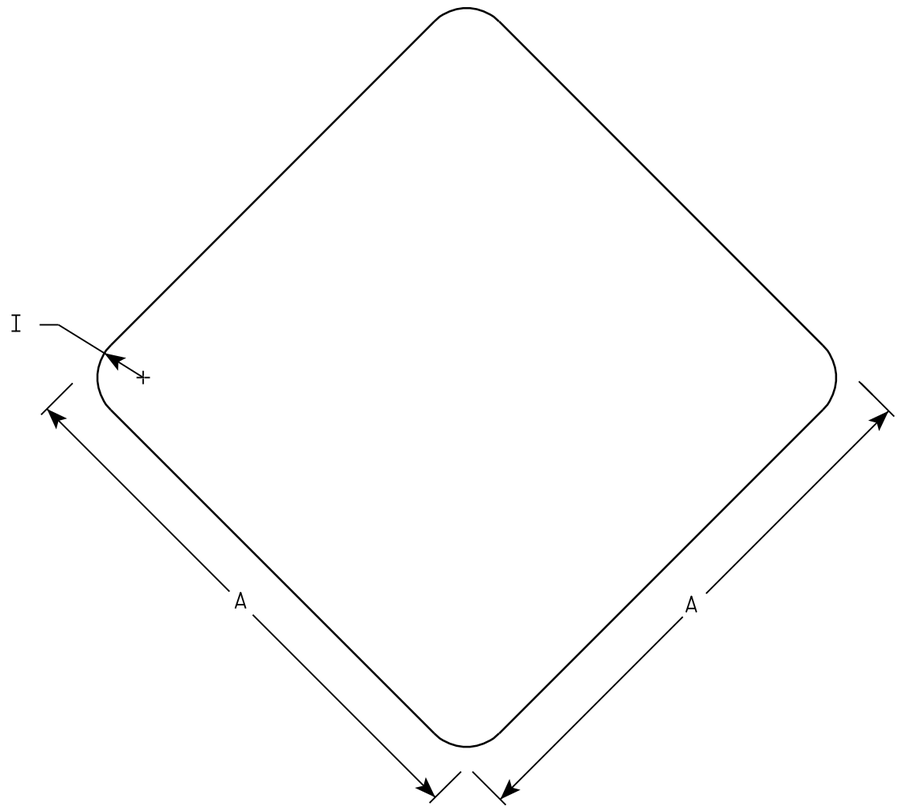
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-6.3

PROJECT NO:

SHEET NO: 520 E



W5-54

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
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners 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	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

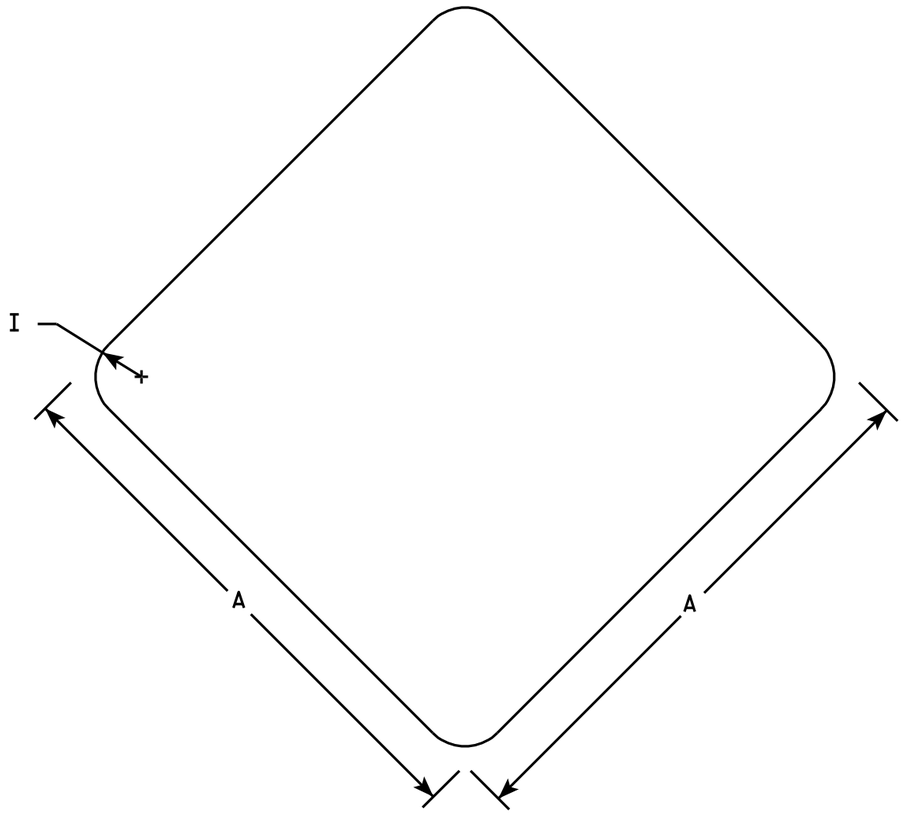
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 521	E



W5-56

NOTES

1. Sign is Type II - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners 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	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

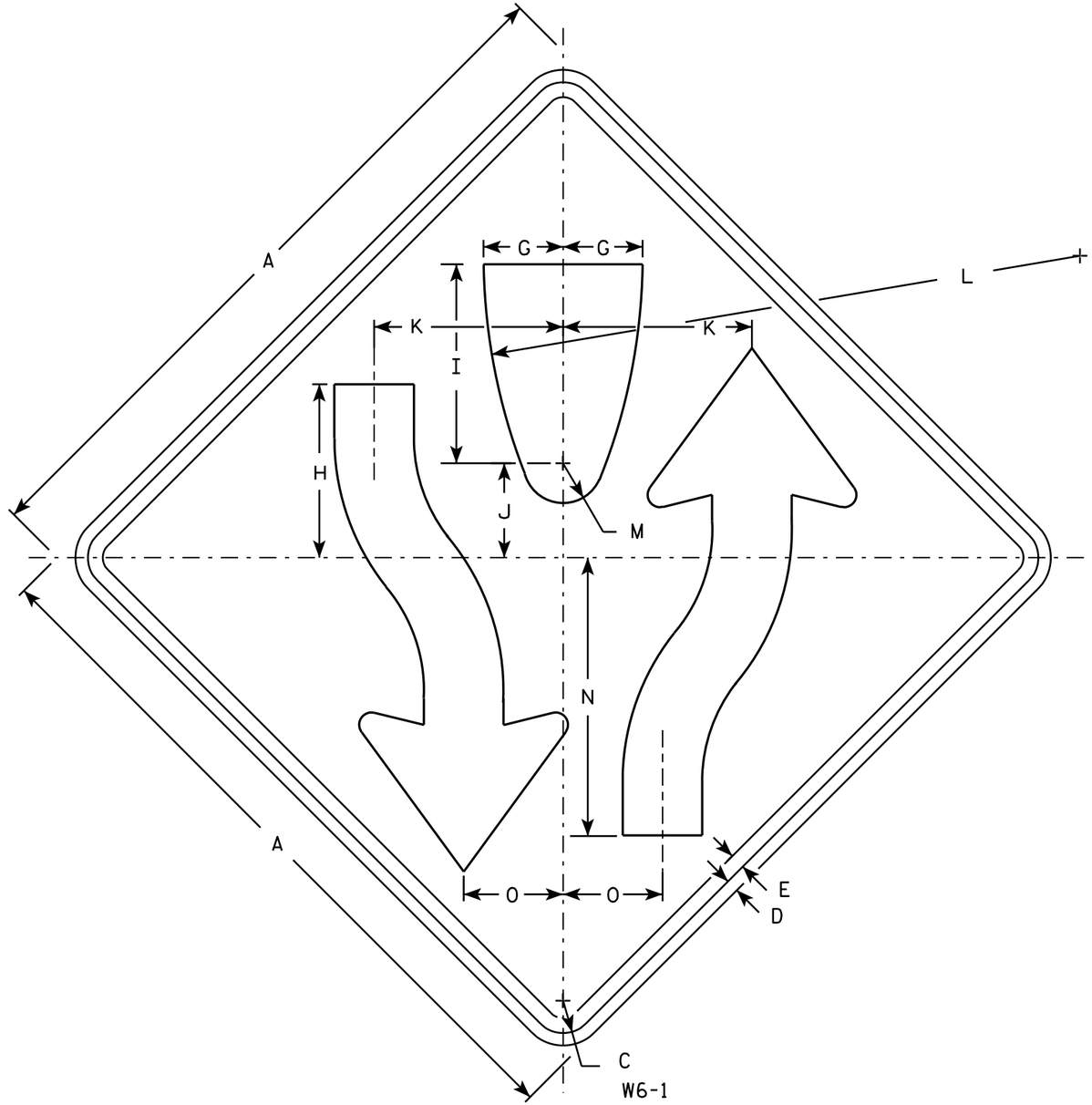
STANDARD SIGN
W5-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

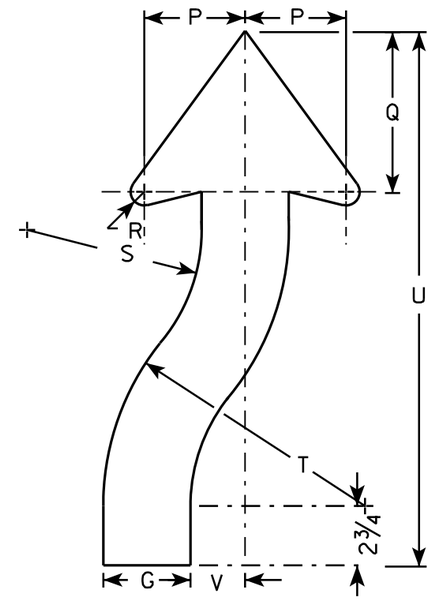
DATE 11/2/10 PLATE NO. W5-56.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 522	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. 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. W6-2 same as W6-1 but is rotated 180° when mounted.



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		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

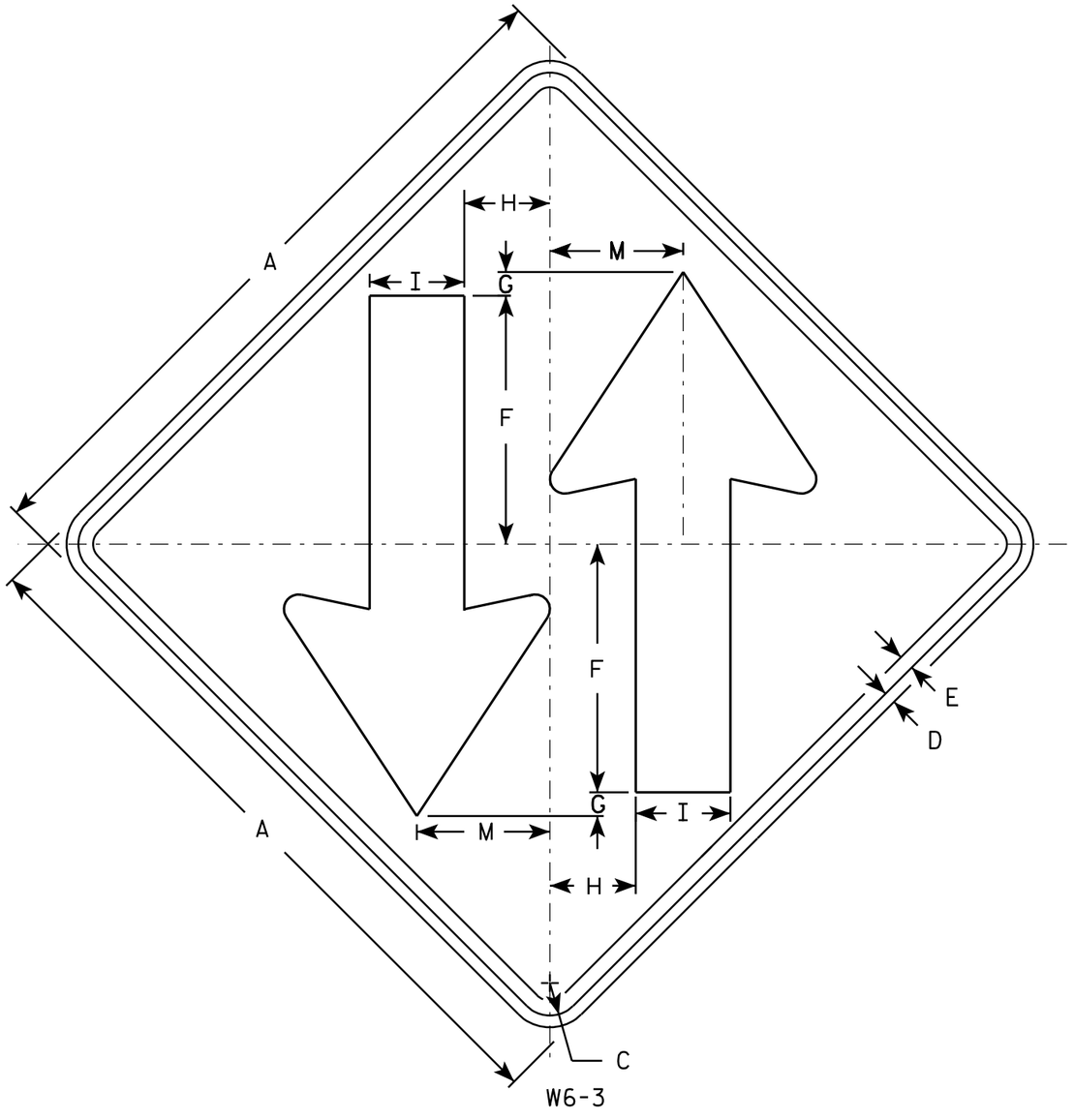
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 523	E

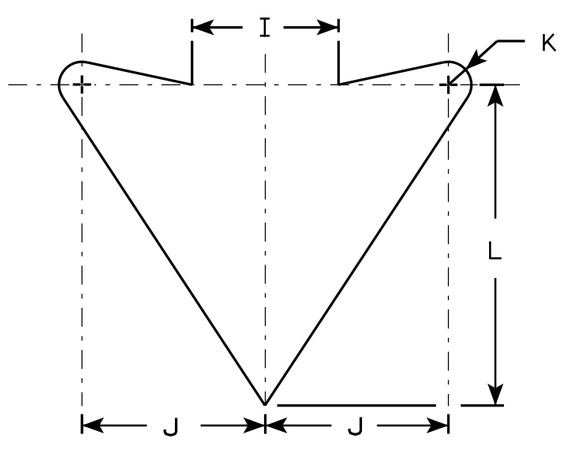
7

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



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.



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

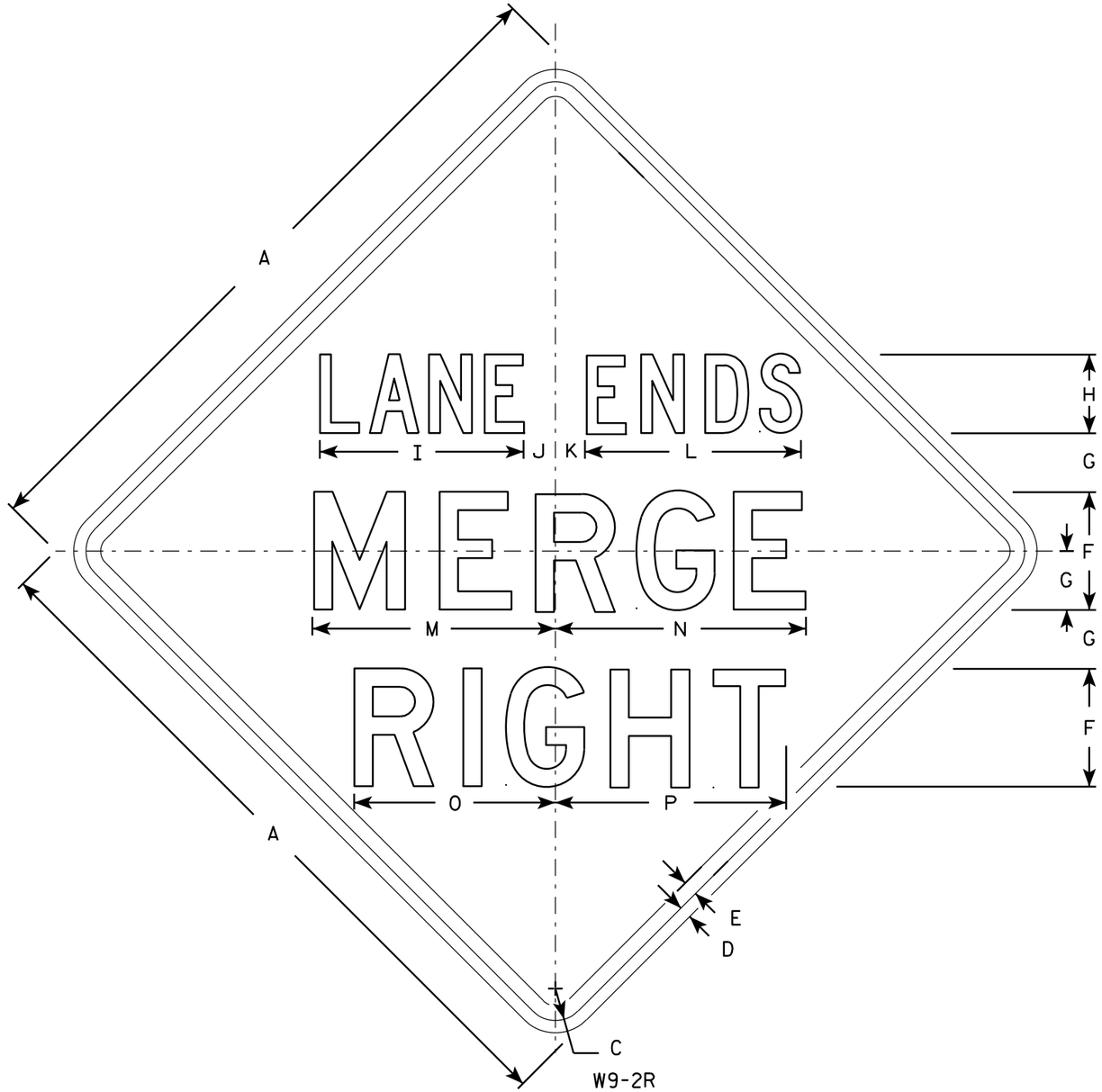
STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

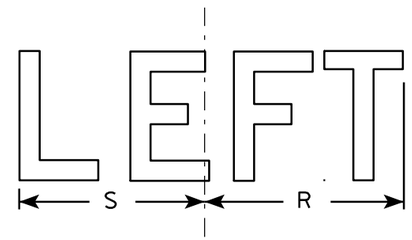
DATE 03/12/13 PLATE NO. W6-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 524 | 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 - 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. Line 1 is Series C, lines 2 & 3 are Series D.
6. W9-1L is the same as W9-2R except the word LEFT replaces RIGHT.



W9-2L

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	30		1 3/8	1/2	5/8	5	2 1/2	3	8	1	1 1/8	8 1/4	10 3/8	10 5/8	8 5/8	9 7/8		7 5/8	7 1/8								6.25
2S	36		1 5/8	5/8	3/4	6	3	4	10 3/8	1 5/8	1 1/2	11	12 3/8	12 3/4	10 1/4	11 3/4		9 1/8	8 1/2								9.0
2M	36		1 5/8	5/8	3/4	6	3	4	10 3/8	1 5/8	1 1/2	11	12 3/8	12 3/4	10 1/4	11 3/4		9 1/8	8 1/2								9.0
3																											
4	48		2 1/4	3/4	1	8	4	6	14 1/2	2	3 1/4	13 3/4	16 3/8	17 1/8	13 3/4	15 3/4		12 1/4	11 1/4								16.0
5	48		2 1/4	3/4	1	8	4	6	14 1/2	2	3 1/4	13 3/4	16 3/8	17 1/8	13 3/4	15 3/4		12 1/4	11 1/4								16.0

STANDARD SIGN
W9-2

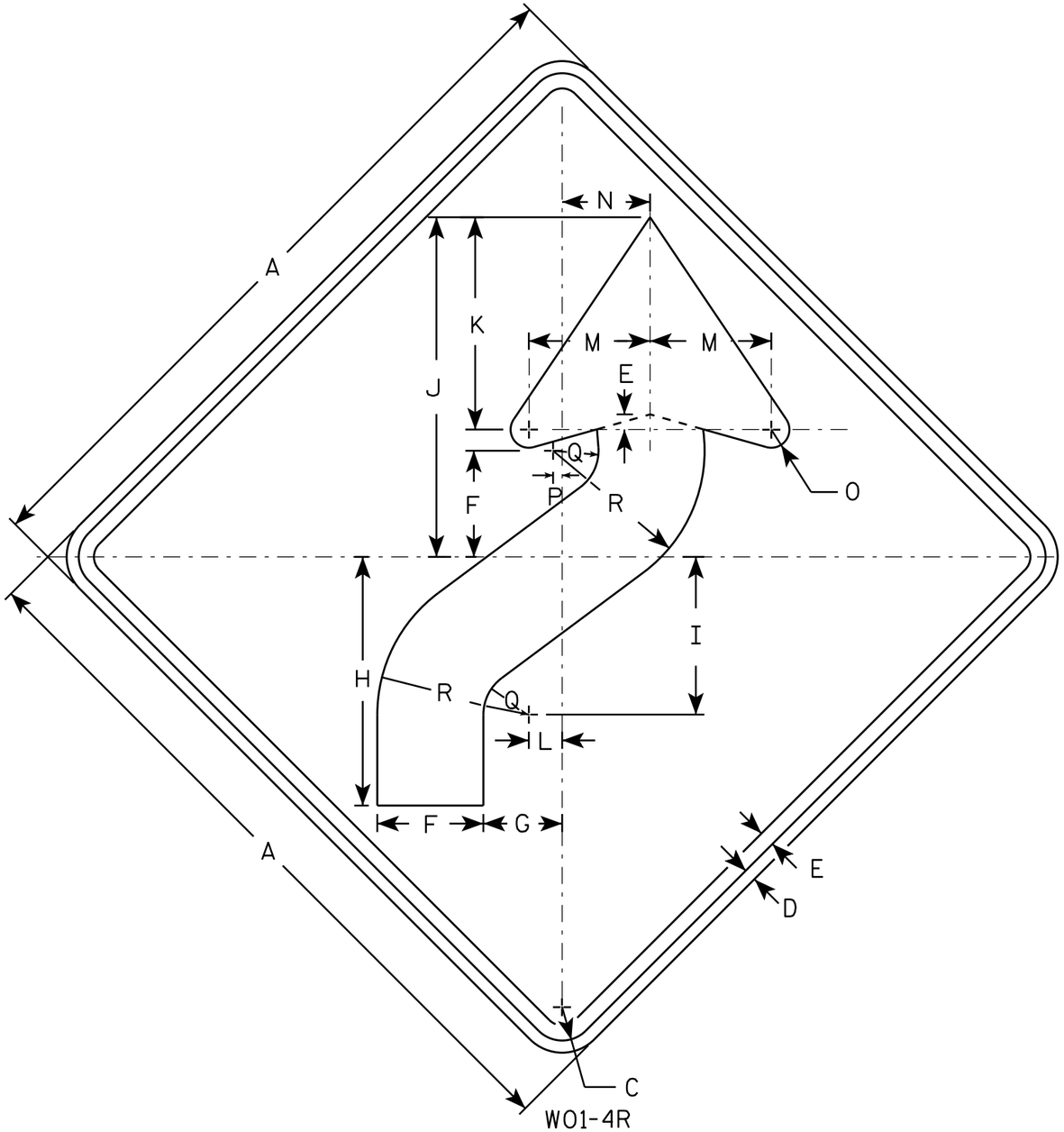
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-2.10

PROJECT NO:

SHEET NO: 525 E



W01-4R

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. 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. W01-4L is the same as W01-4R 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	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN
W01-4

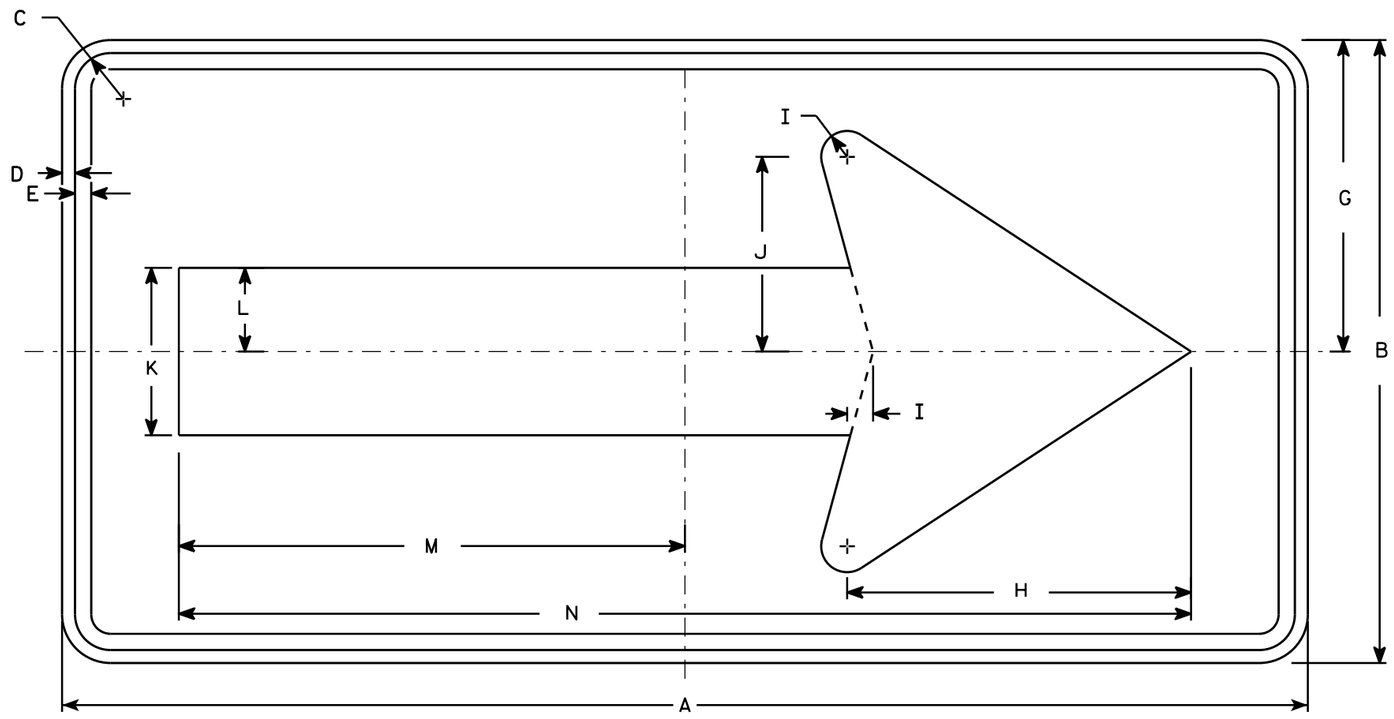
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-4.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W014.DGN PLOT DATE : 28-FEB-2014 11:35 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 6.755110:1.000000 WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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																											
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	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

STANDARD SIGN
W01-6

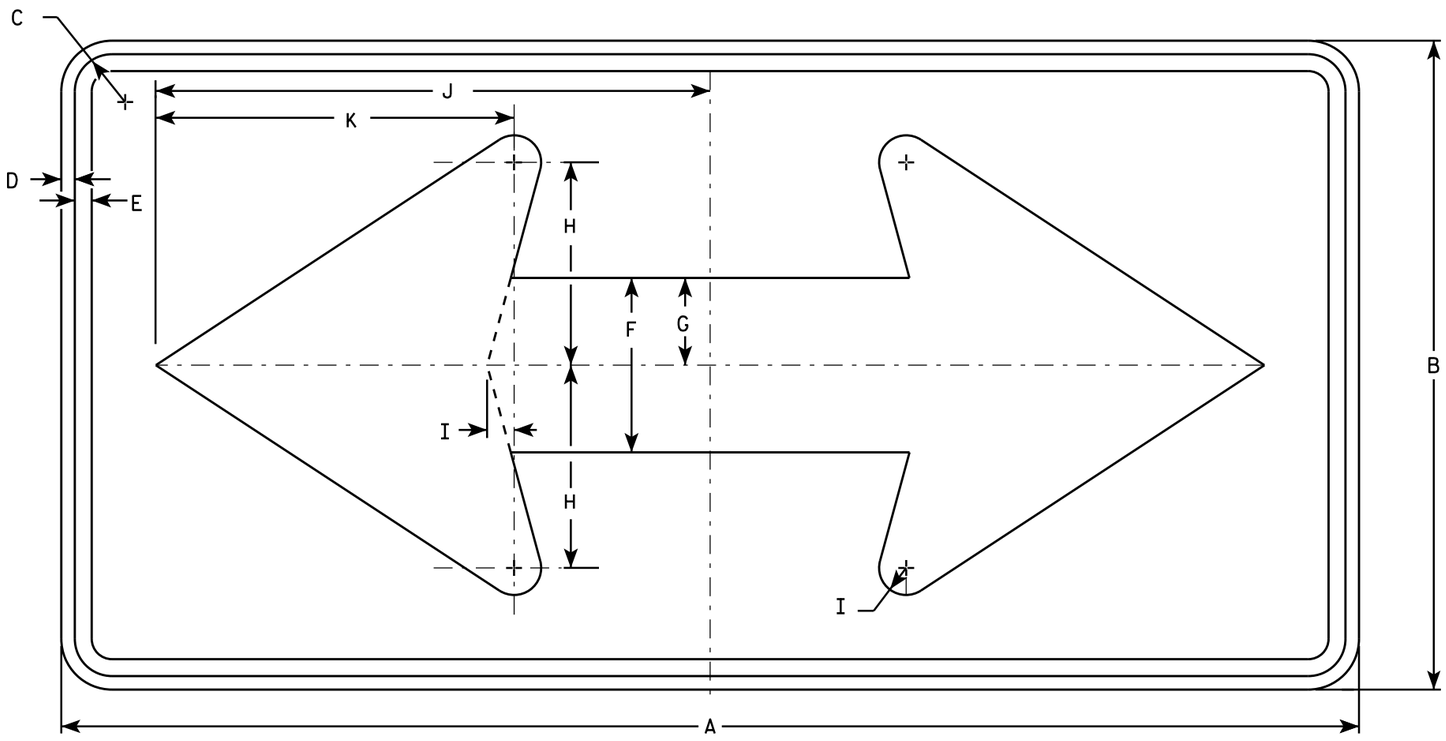
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-6.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



W01-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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																											
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5

STANDARD SIGN
W01-7

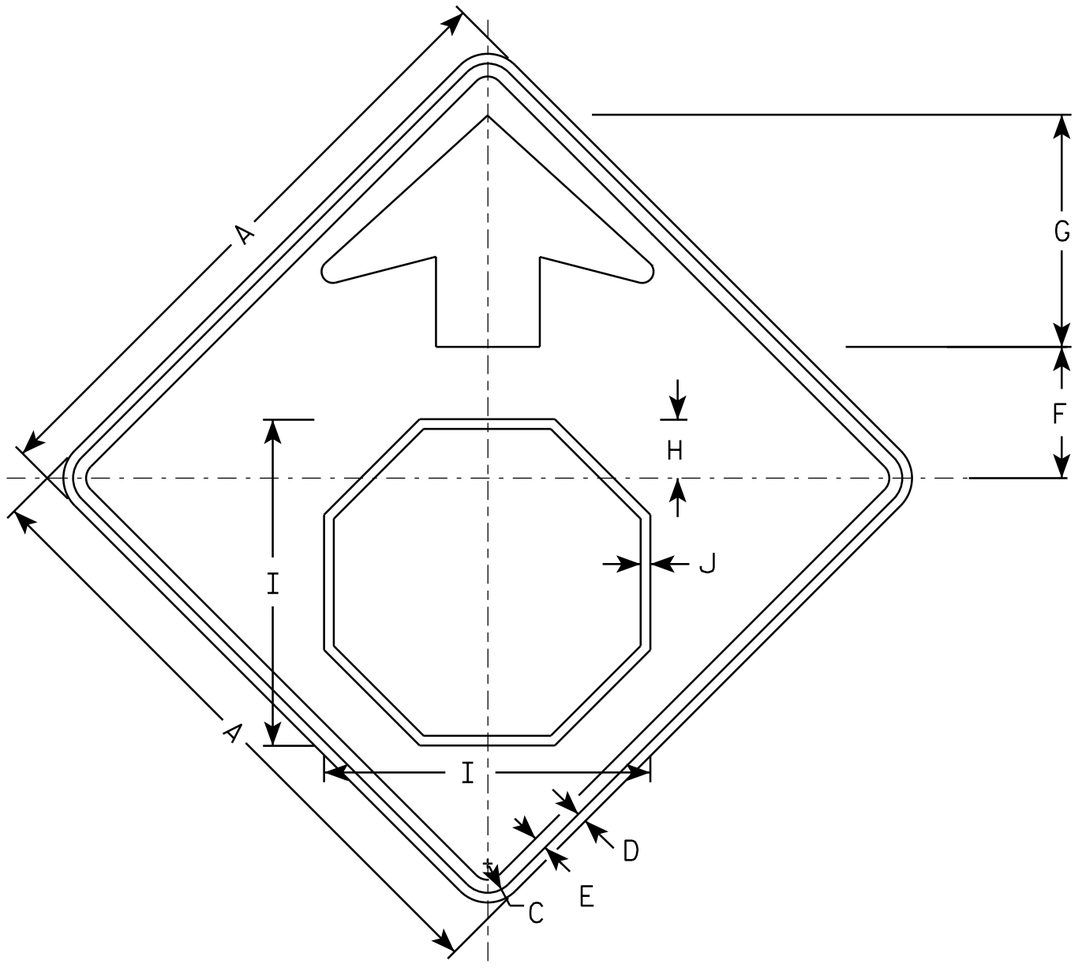
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE 1528 W01-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

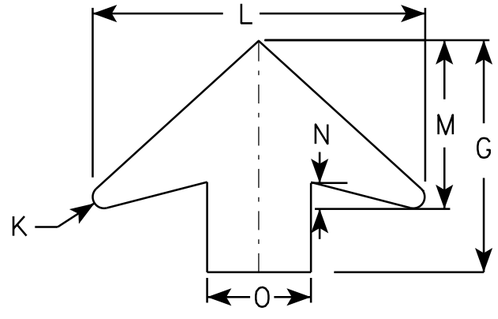
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W017.DGN PLOT DATE : 20-NOV-2013 10:35 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.604022:1.000000
WISDOT/CADDS SHEET 42



W03-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE
   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	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
2S	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
2M	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
3	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
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
W03-1

WISCONSIN DEPT OF TRANSPORTATION

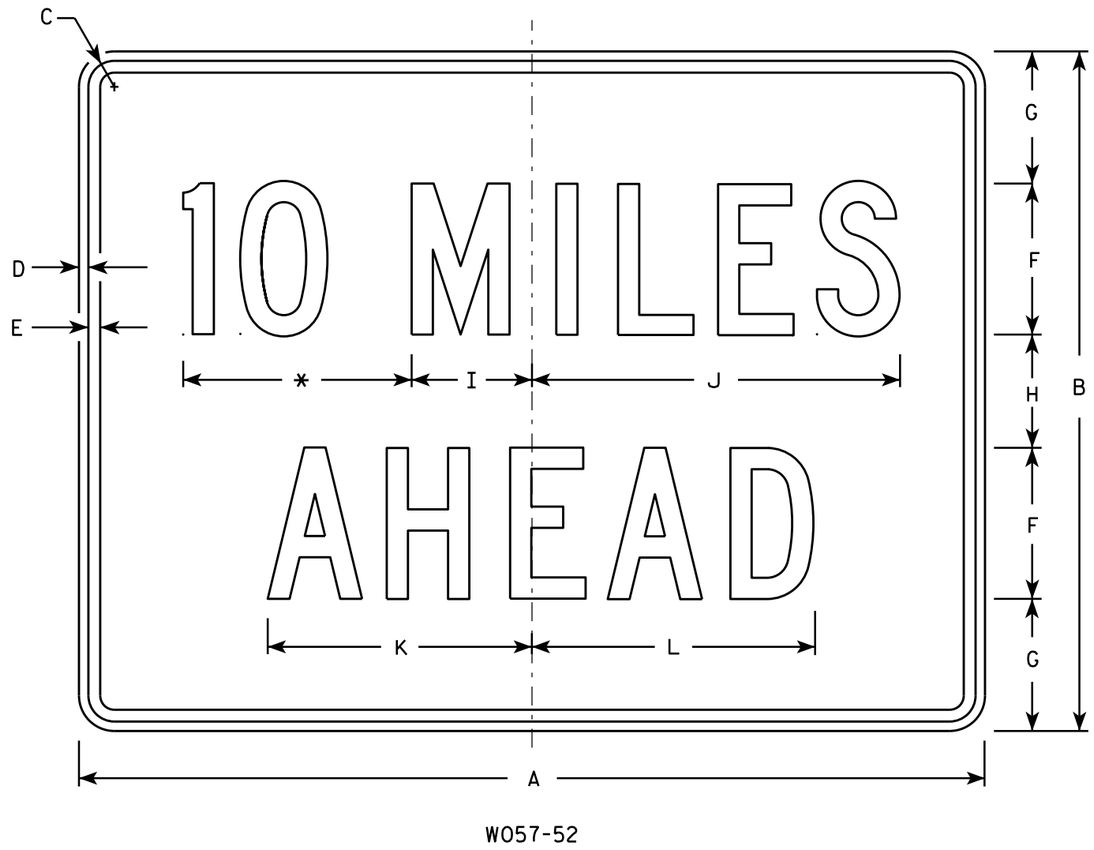
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 529 03-1.1

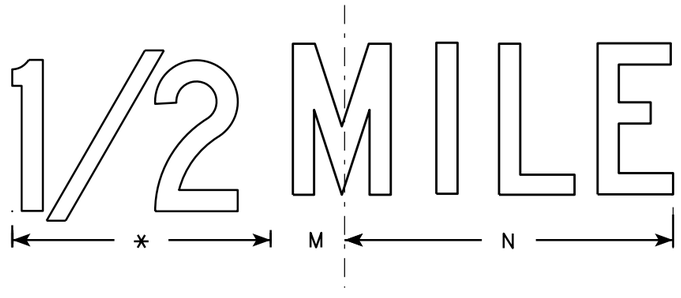
PROJECT NO: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W031.DGN PLOT DATE : 20-NOV-2013 10:54 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



W057-52



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.
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	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
2S	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
2M	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
3	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
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
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

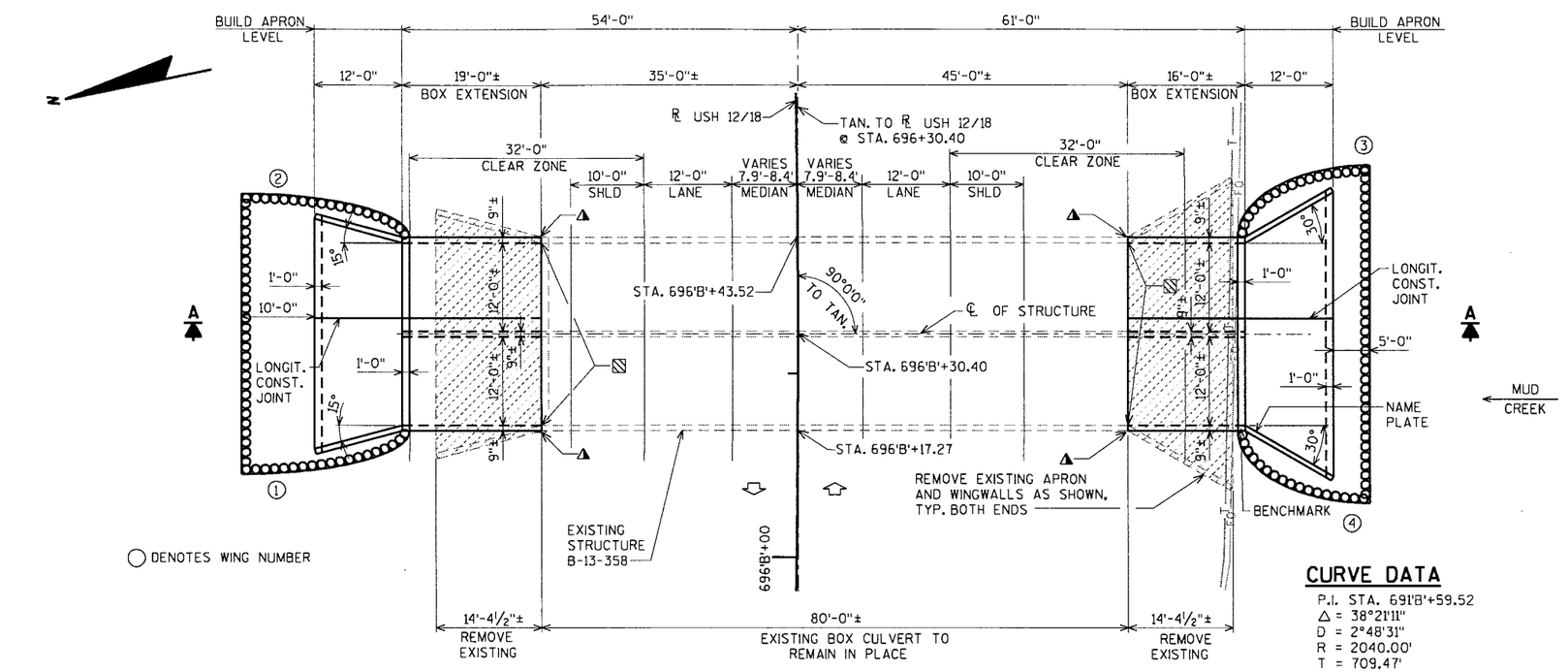
DATE 11/20/13 PLATE W057-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

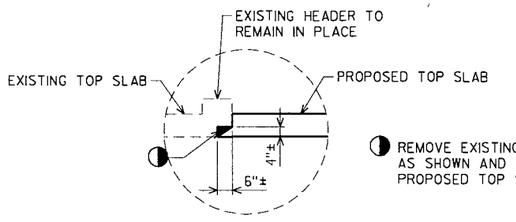
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STATE PROJECT NUMBER
3070-00-73

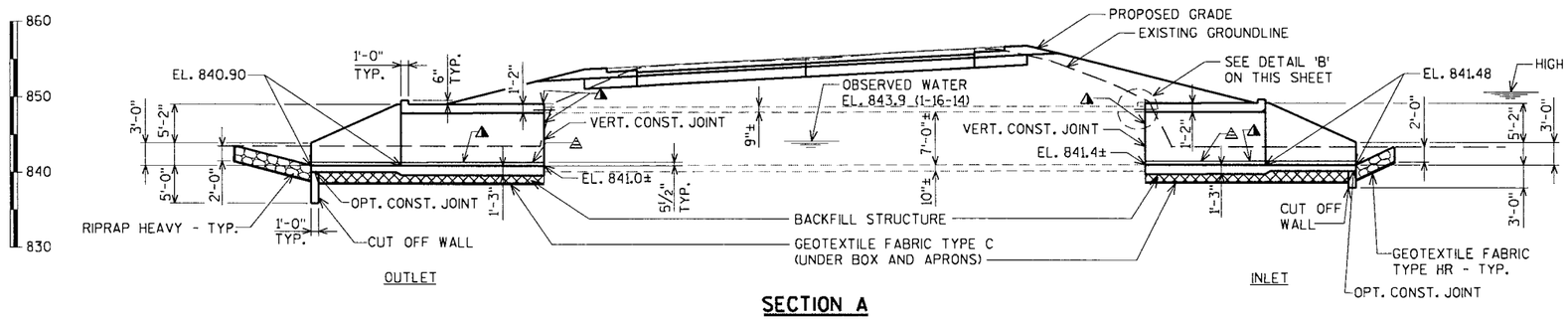


PLAN
TWIN-CELL CONCRETE BOX CULVERT EXTENSION



◑ REMOVE EXISTING CONCRETE AT ENDS OF CULVERT AS SHOWN AND LEAVE ROUGH BEFORE FORMING PROPOSED TOP SLAB.

DETAIL 'B'



SECTION A

△ HORIZONTAL CONSTRUCTION JOINT

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING UP WALLS AND ACROSS TOP SLAB AT VERTICAL CONSTRUCTION JOINTS AND ALONG HORIZONTAL CONSTRUCTION JOINTS.

▨ CONCRETE MASONRY ANCHORS, TYPE L

CURVE DATA

P.I. STA. 691'B'+59.52
Δ = 38°21'11"
D = 2°48'31"
R = 2040.00'
T = 709.47'
L = 1365.55'
E = 119.85'
S.E. = 5.40%

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.05
OPERATING RATING FACTOR : 1.35
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 255 KIPS

EARTH LOAD: 2.0 TO 8.5 FEET *

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY	f'_c =	3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)	f_y =	60,000 p.s.i.

HYDRAULIC DATA:
100 YEAR FLOOD
DRAINAGE AREA = 16.9 sq. mi.
WATERWAY AREA = 168 sq. ft.
V = 5.48 f.p.s.
Q_{100} = 920 c.f.s.
Q_2 = 350 c.f.s.
HIGH WATER$_{100}$ EL. = 850.8
HIGH WATER$_2$ EL. = 848.4
RDWY. OVERFLOW = N/A
SCOUR CRITICAL CODE = N/A

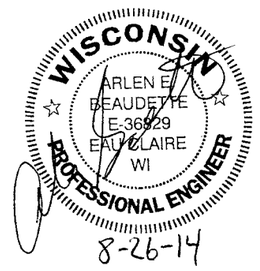
TRAFFIC DATA:
A.D.T. = 11,900 (2014)
A.D.T. = 14,000 (2034)
R.D.S. = 60 M.P.H.

* EXISTING CULVERT WAS DESIGNED FOR 8.5 FEET OF FILL.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. APRON DETAILS
4. WING DETAILS
5. BOX DETAILS
6. BOTTOM SLAB BAR STEEL LAYOUT
7. TOP SLAB BAR STEEL LAYOUT
8. BILL OF BARS AND DETAILS

FOR QUANTITIES, GENERAL NOTES AND PROFILE GRADE LINE SEE SHEET 2



BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
ARLEN BEAUDETTE
(715)-834-3161

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher KAR 11/28/14
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-13-358

USH 12/18 OVER MUD CREEK

COUNTY	TOWN/~~CITY/VILLAGE~~
DANE	CHRISTIANA

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JCK	JWZ	JCK	AEB

GENERAL PLAN

SHEET 1 OF 8
531

DATE:
DATE:
DATE:
CHECKED BY:
BACK CHECKED BY:
CORRECTED BY:

8

8

$PRFNAME$
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STATE PROJECT NUMBER

3070-00-73

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" SHALL BE THE EXISTING GROUND LINE.

THE ALTERNATE CUTOFF WALL MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUTOFF WALLS. PAYMENT SHALL BE BASED ON THE CONCRETE CUTOFF WALLS.

THE CONCRETE IN THE CUTOFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE ELEVATION OF THE TOP OF THE BOX WITHIN THE LENGTH OF THE BOX. THE PAY LIMITS OF THE STRUCTURAL BACKFILL ARE 3'-0" BEYOND THE HORIZONTAL PLAN LIMITS AT THE BOTTOM OF THE BOX AND APRON AND UP AT A 1:1.5 BACKFILL SLOPE FROM BOTTOM OF SLAB TO TOP OF BOX OR PROPOSED SUBGRADE ELEVATION, WHICHEVER IS LOWER, PLUS 6" BELOW BOX.

THE EXISTING STRUCTURE B-13-358, IS A TWIN-CELL 12'-0"± x 7'-0"± CONCRETE BOX CULVERT WITH A BARREL LENGTH OF 80'-0"±.

REMOVING OLD STRUCTURE STATION 696'B'+30.40, INCLUDES REMOVING EXISTING OUTLET AND INLET WINGS AND APRONS.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS. THE CONTRACTOR SHALL ADJUST THE DIMENSIONS OF THE BOX CELL OPENINGS TO MATCH THE EXISTING CULVERT.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.

FILLET THE FORMS WITH ¾ INCH TRIANGULAR MOLDING CHAMFER STRIPS AT ALL EXPOSED, SHARP CORNERS AND AT THE EDGES OF THE CONCRETE, UNLESS SPECIFIED OTHERWISE.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW THE ORIGINAL CONSTRUCTION YEAR (1988).

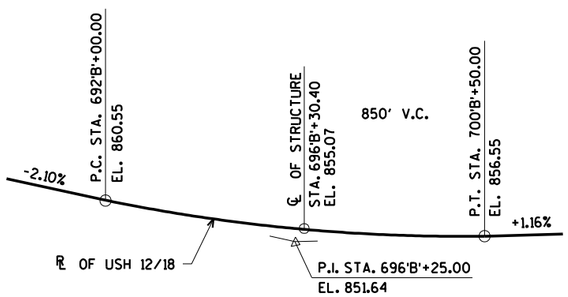
TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEMS	AMOUNT
203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY STATION 696'B'+30.40	1 LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS B-13-358	1 LS
210.0100	BACKFILL STRUCTURE	480 CY
502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	156 EACH
504.0100	CONCRETE MASONRY CULVERTS	143 CY
505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	20,580 LB
⊗509.1500	CONCRETE SURFACE REPAIR	10 SF
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	41 SY
606.0300	RIPRAP HEAVY	60 CY
645.0105	GEOTEXTILE FABRIC TYPE C	240 SY
645.0120	GEOTEXTILE FABRIC TYPE HR	130 SY

NON-BID ITEMS

FILLER	¾ SIZE

⊗ UNDISTRIBUTED, AS DIRECTED BY THE ENGINEER IN THE FIELD.



PROFILE GRADE LINE
(USH 12/18)

BENCHMARK: WISDOT ALUM. DISK
STA: 696'B'+43.94, 141' LT.
EL: 849.38

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-358

DRAWN BY JCK | PLANS CK'D. AEB

QUANTITIES AND NOTES

SHEET 2 OF 8
532

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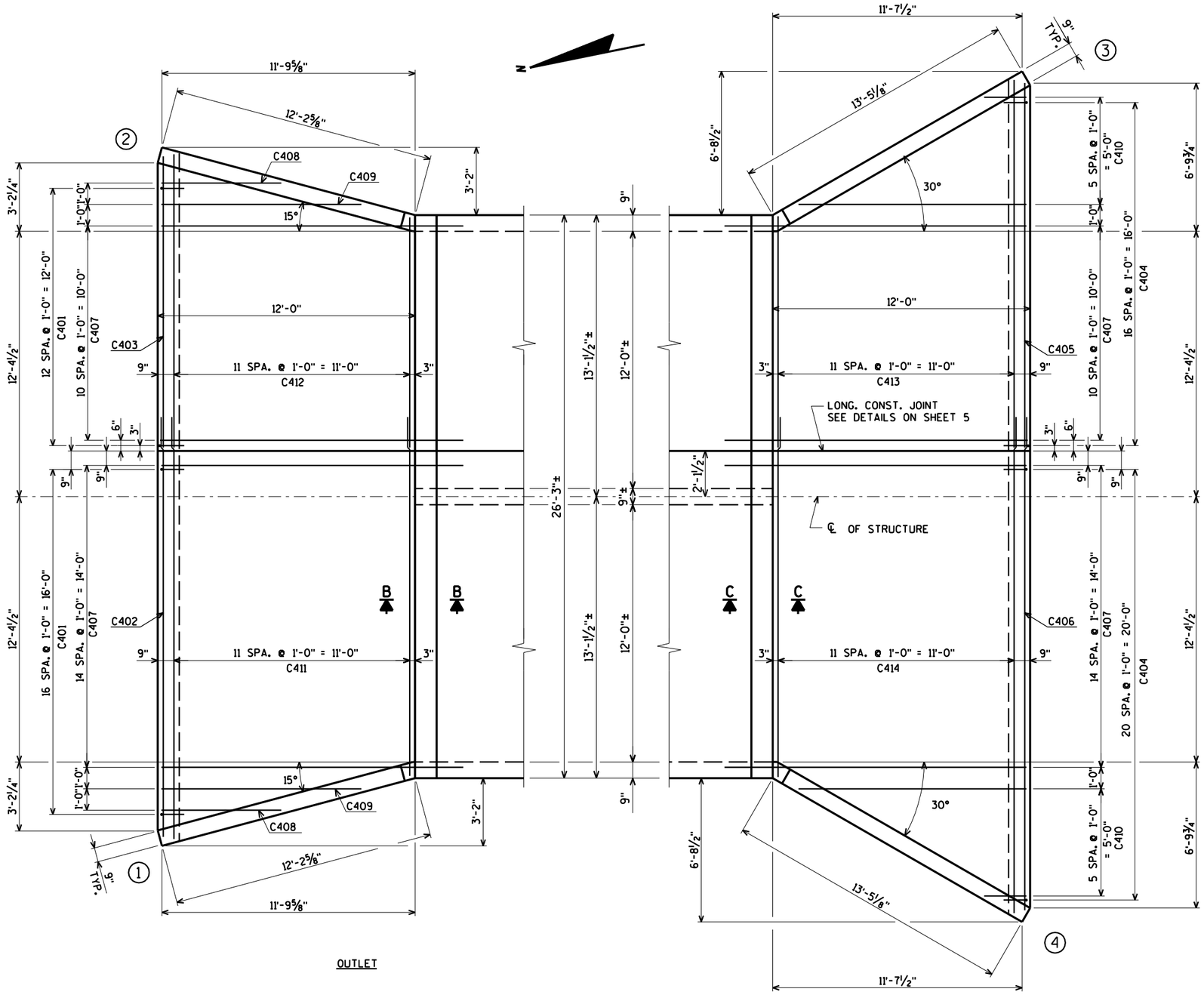
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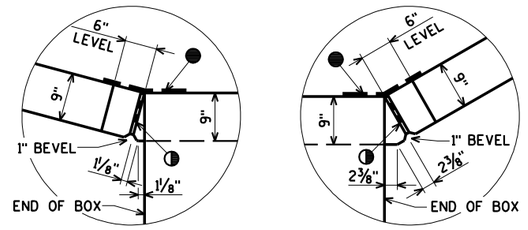
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STATE PROJECT NUMBER

3070-00-73



PLAN OF APRONS



WING 2 SHOWN
WING 1 SIMILAR

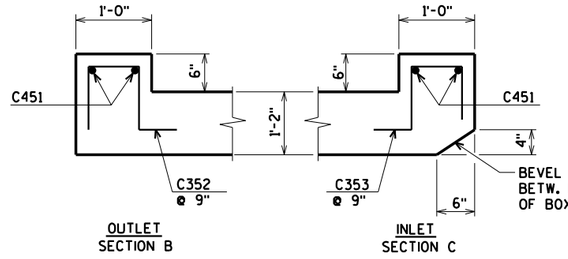
WING 3 SHOWN
WING 4 SIMILAR

CORNER DETAIL

● 18" RUBBERIZED MEMBRANE WATERPROOFING TO EXTEND FROM HORIZ. CONST. JT. TO TOP OF WING.

◑ ¾" FILLER TO EXTEND FROM HORIZ. CONST. JT. TO TOP OF WING.

NOTE:
DO NOT RUN ANY BAR STEEL REINF. THRU JOINT FILLER.



HEADER DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-358

DRAWN BY CLS | PLANS CK'D. AEB

APRON DETAILS

SHEET 3 OF 8
533

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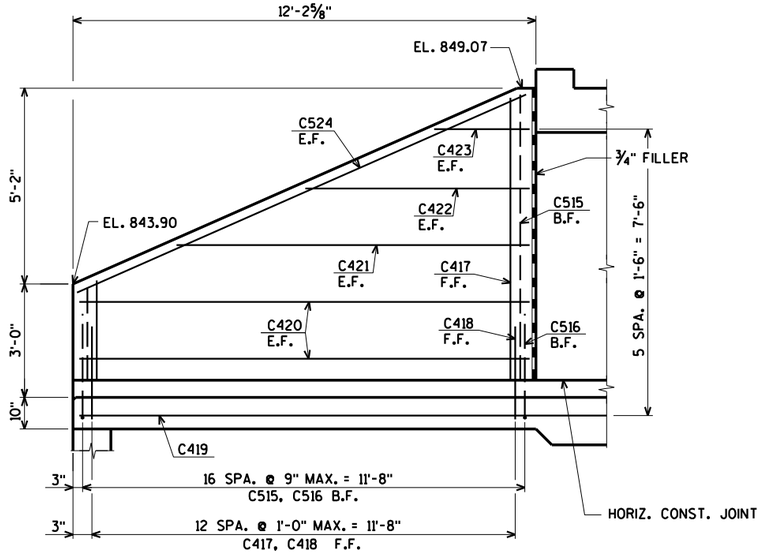
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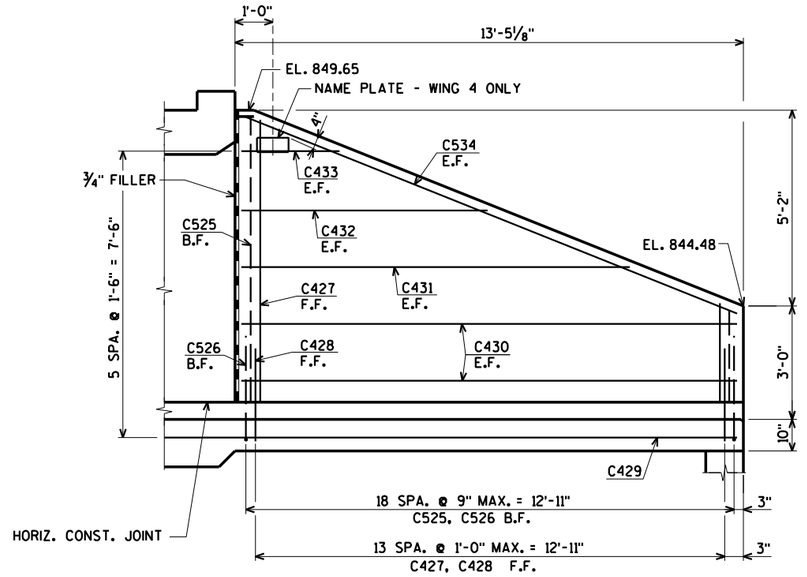
STATE PROJECT NUMBER

3070-00-73



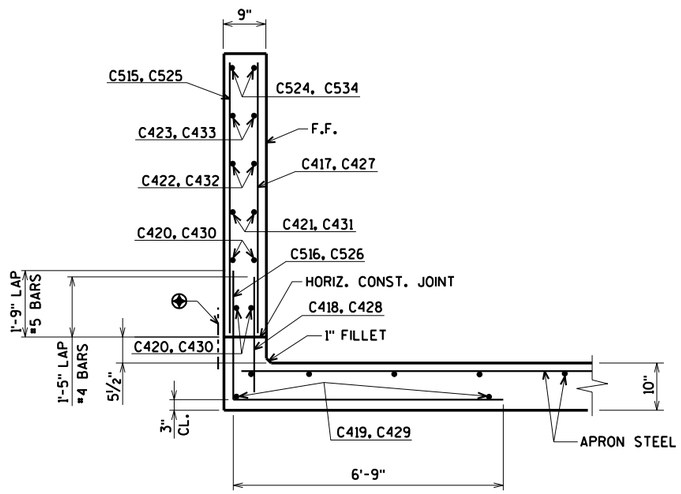
ELEVATION - WING 1

(WING 2 SIMILAR)



ELEVATION - WING 4

(WING 3 SIMILAR)



TYP. SECTION THRU WING

⊕ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-358

DRAWN BY	CLS	PLANS CK'D.	AEB

WING DETAILS

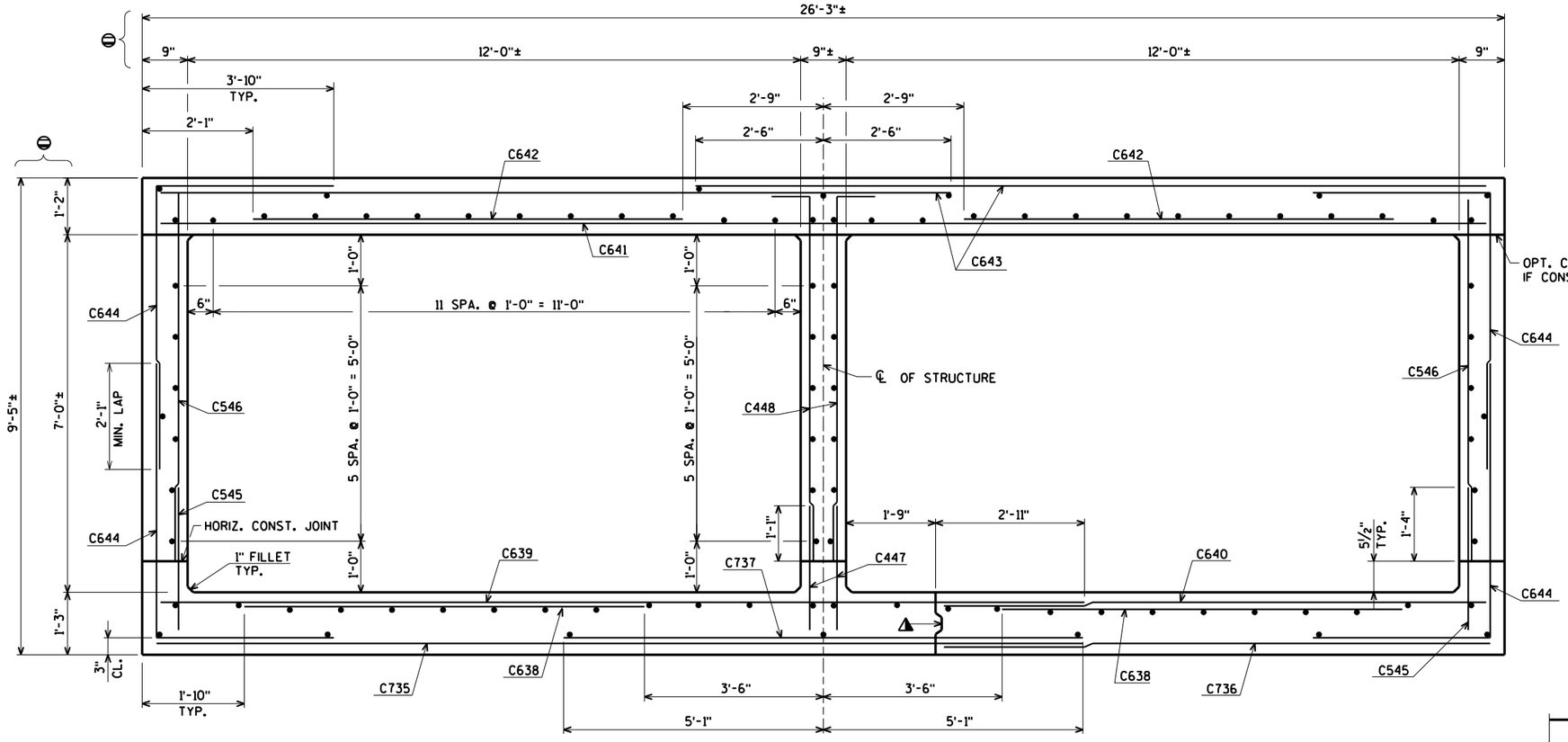
SHEET 4 OF 8

534

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8

8



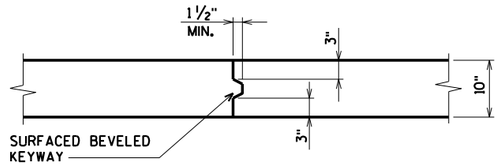
ALL LONGITUDINAL BARS IN BOX ARE C449 AT 19' EXTENTION AND C450 AT 16' EXTENTION UNLESS SHOWN OTHERWISE

OPT. CONST. JOINT OMIT 1" FILLET IF CONST. JOINT IS USED - TYP.

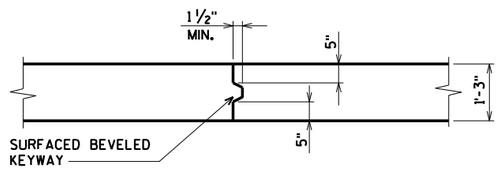
ⓓ ADJUST AS NECESSARY TO MATCH THE OPENINGS OF THE EXISTING CULVERT.

▲ LONG. CONST. JOINT KEYWAY FORMED BY A SURFACED BEVELED 1½" x 4". SEE DETAIL ON THIS SHEET.

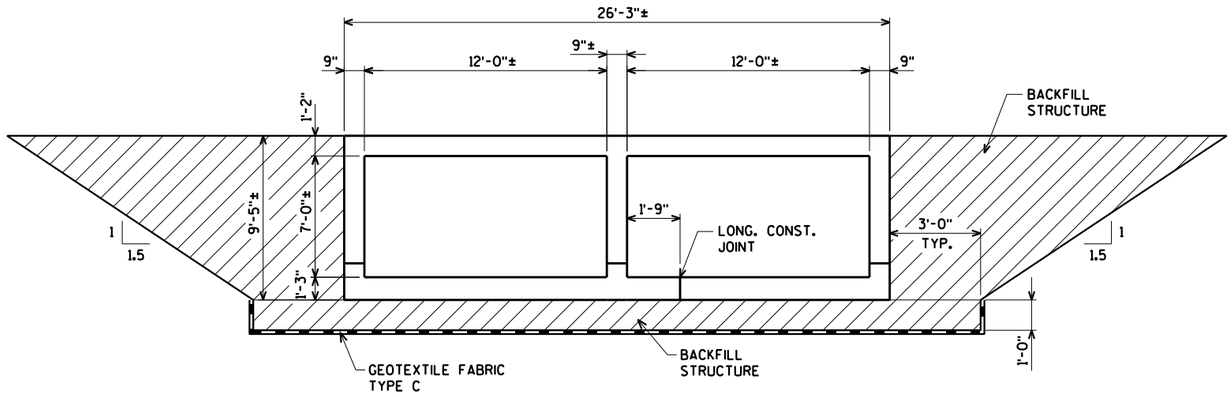
TYPICAL SECTION THRU BOX
(LOOKING NORTH)



LONG. CONST. JOINT DETAIL
(BOTTOM OF APRON)



LONG. CONST. JOINT DETAIL
(BOTTOM SLAB OF BOX)



TYPICAL SECTION THRU BOX EXTENSION AND BACKFILL DETAIL
NOTE: MATCH EXISTING CULVERT OPENING
(LOOKING NORTH)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-358

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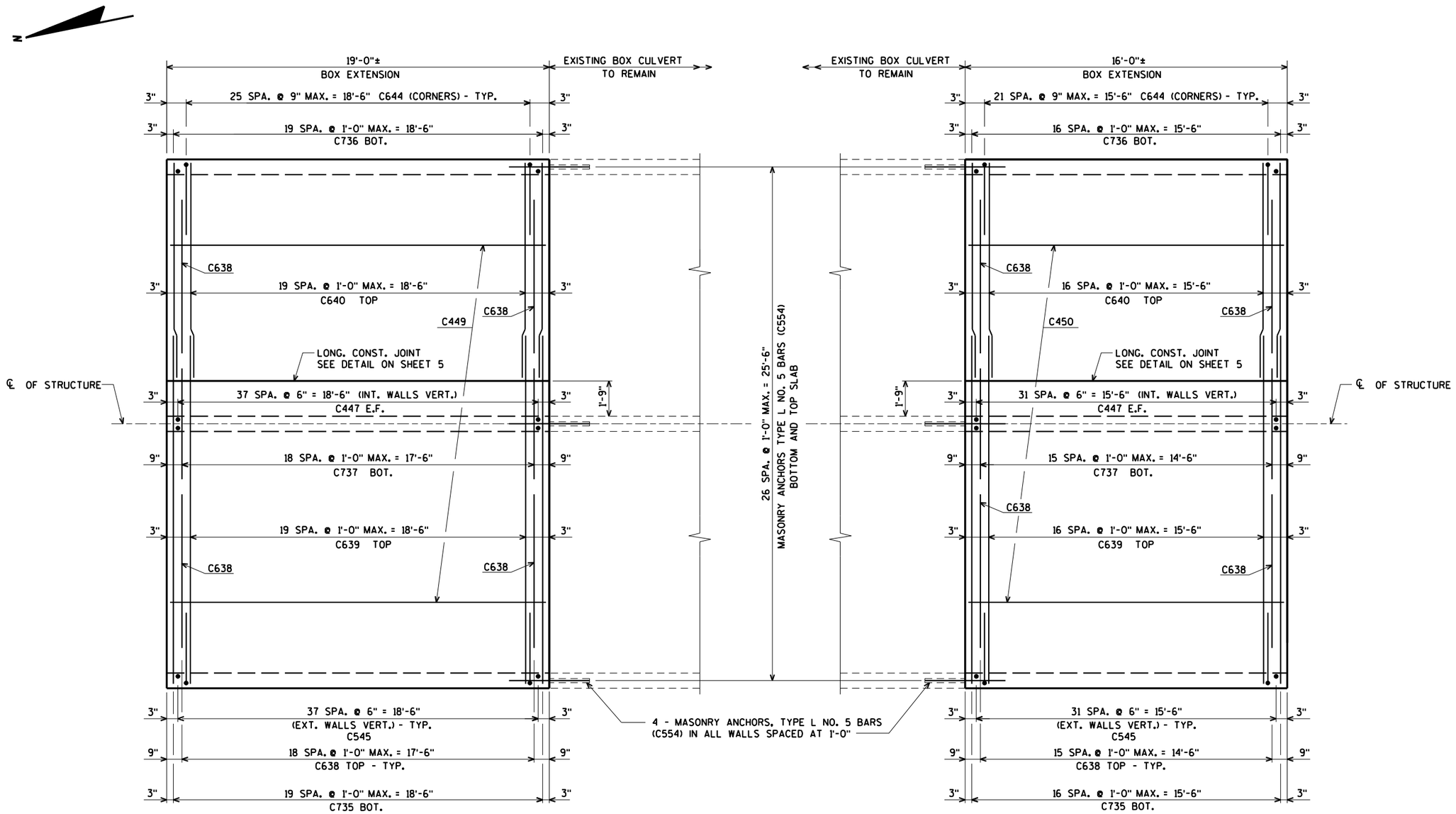
BOX DETAILS

SHEET 5 OF 8
535

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8

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E.F. DENOTES EACH FACE

BOTTOM SLAB

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-358

DRAWN BY CLS | PLANS CK'D. AEB

BOTTOM SLAB BAR STEEL LAYOUT

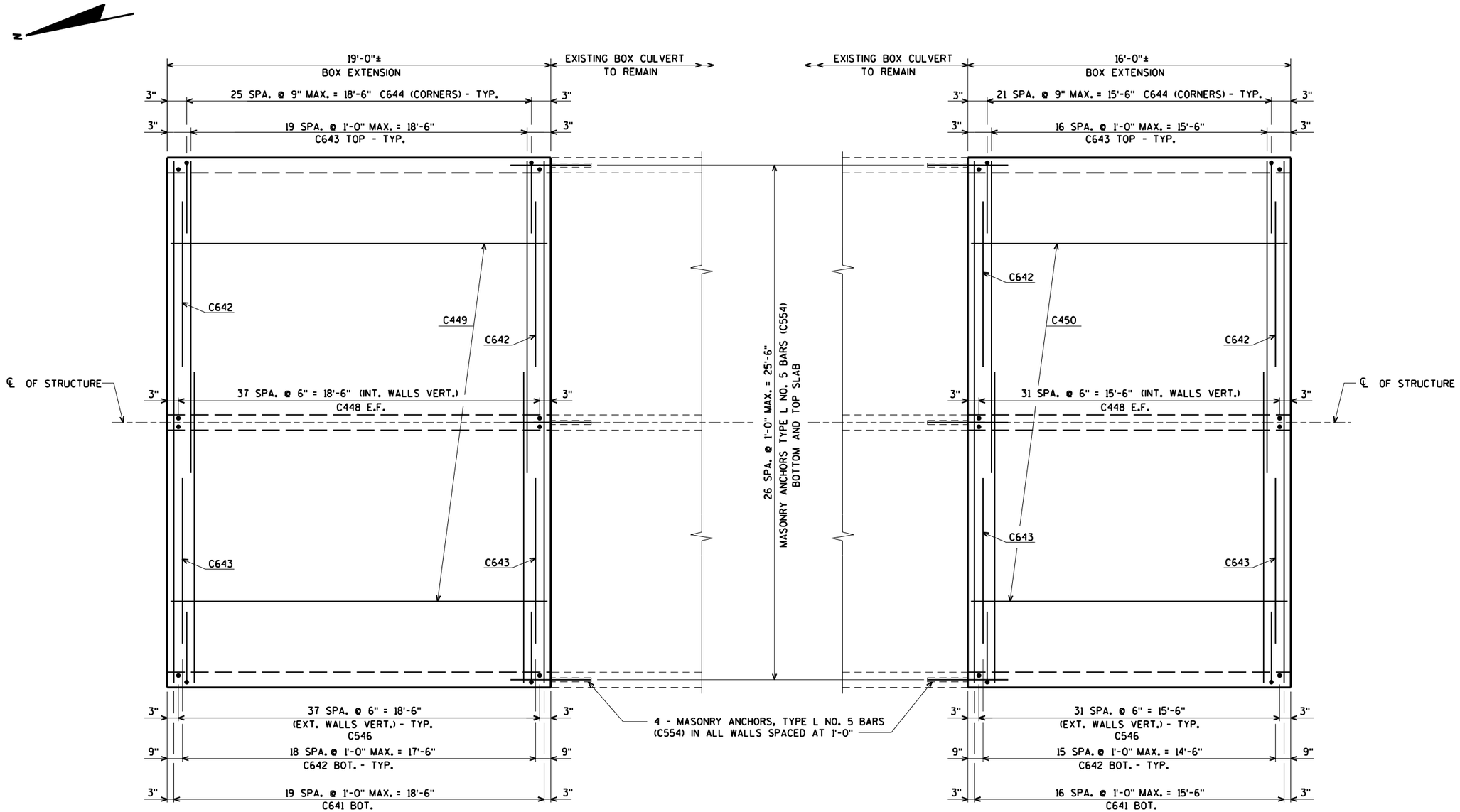
SHEET 6 OF 8
536

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8/26/2014

PENTABLE:BReau_shd_util.tbl



TOP SLAB

E.F. DENOTES EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-358

DRAWN BY CLS | PLANS CK'D. AEB

TOP SLAB
BAR STEEL
LAYOUT

SHEET 7 OF 8
537

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8/26/2014

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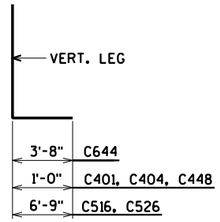
BILL OF BARS

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	20,580# UNCOATED LOCATION
C401		30	5-7	X			CUTOFF WALL OUTLET
C402		5	19-7				CUTOFF WALL OUTLET
C403		5	13-7				CUTOFF WALL OUTLET
C404		38	3-7	X			CUTOFF WALL INLET
C405		3	17-0				CUTOFF WALL INLET
C406		3	23-0				CUTOFF WALL INLET
C407		52	14-1				APRON INLET & OUTLET
C408		2	5-7				APRON OUTLET WING 1 & 2
C409		2	9-4				APRON OUTLET WING 1 & 2
C410		12	6-3			⊗	APRON INLET WING 3 & 4
C411		12	18-2			⊗	APRON OUTLET
C412		12	12-2			⊗	APRON OUTLET
C413		12	13-11			⊗	APRON INLET
C414		12	19-11			⊗	APRON INLET
C515		34	5-0			⊗	WINGS 1 & 2 VERT. B.F.
C516		34	9-5	X			WINGS 1 & 2 VERT. B.F.
C417		26	5-0			⊗	WINGS 1 & 2 VERT. F.F.
C418		26	2-7				WINGS 1 & 2 VERT. F.F.
C419		4	14-3				WINGS 1 & 2 HORIZ.
C420		8	11-9				WINGS 1 & 2 HORIZ. E.F.
C421		4	9-3				WINGS 1 & 2 HORIZ. E.F.
C422		4	5-10				WINGS 1 & 2 HORIZ. E.F.
C423		4	2-3				WINGS 1 & 2 HORIZ. E.F.
C524		4	12-10				WINGS 1 & 2 DIAG. E.F.
C525		38	5-0			⊗	WINGS 3 & 4 VERT. B.F.
C526		38	9-5	X			WINGS 3 & 4 VERT. B.F.
C427		28	5-0			⊗	WINGS 3 & 4 VERT. F.F.
C428		28	2-7				WINGS 3 & 4 VERT. F.F.
C429		4	15-6				WINGS 3 & 4 HORIZ.
C430		8	13-0				WINGS 3 & 4 HORIZ. E.F.
C431		4	10-2				WINGS 3 & 4 HORIZ. E.F.
C432		4	6-5				WINGS 3 & 4 HORIZ. E.F.
C433		4	2-6				WINGS 3 & 4 HORIZ. E.F.
C534		4	14-0				WINGS 3 & 4 DIAG. E.F.
C735		37	18-0				BOX BOT. SLAB TRANS. BOT.
C736		37	10-8				BOX BOT. SLAB TRANS. BOT.
C737		35	10-2				BOX BOT. SLAB TRANS. BOT.
C638		70	7-10				BOX BOT. SLAB TRANS. TOP
C639		37	18-0				BOX BOT. SLAB TRANS. TOP
C640		37	10-8				BOX BOT. SLAB TRANS. TOP
C641		37	25-11				BOX TOP SLAB TRANS. BOT.
C642		70	8-4				BOX TOP SLAB TRANS. BOT.
C643		74	15-5				BOX TOP SLAB TRANS. TOP
C644		192	9-0	X			BOX CORNERS
C545		140	2-11				BOX EXT. DOWELS WALLS
C546		140	7-6				BOX EXT. WALLS VERT.
C447		140	2-8				BOX INT. DOWELS WALLS
C448		140	8-5	X			BOX INT. WALLS VERT.
C449		96	18-8				BOX LONG.
C450		96	15-8				BOX LONG.
C451		4	25-11				BOX HEADER INLET & OUTLET
C352		36	3-3	X			HEADER OUTLET
C353		36	3-1	X			HEADER INLET
▲ C554		156	3-0				BOX VERT. CONST. JT.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

▲ CONCRETE MASONRY ANCHORS TYPE L NO. 5 BARS.

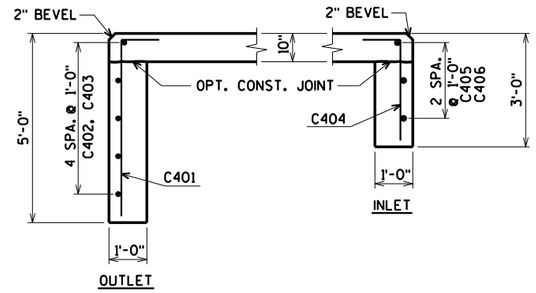




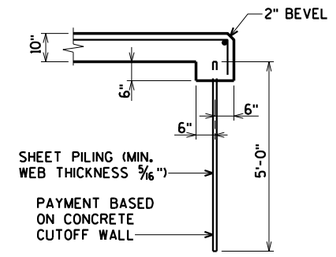
BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
C410	2 SERIES OF 6	1'-11" TO 10'-7"
C411	1 SERIES OF 12	16'-8" TO 19'-8"
C412	1 SERIES OF 12	10'-8" TO 13'-8"
C413	1 SERIES OF 12	10'-9" TO 17'-1"
C414	1 SERIES OF 12	16'-9" TO 23'-1"
C515	2 SERIES OF 17	2'-6" TO 7'-6"
C417	2 SERIES OF 13	2'-6" TO 7'-6"
C525	2 SERIES OF 19	2'-6" TO 7'-6"
C427	2 SERIES OF 14	2'-6" TO 7'-6"

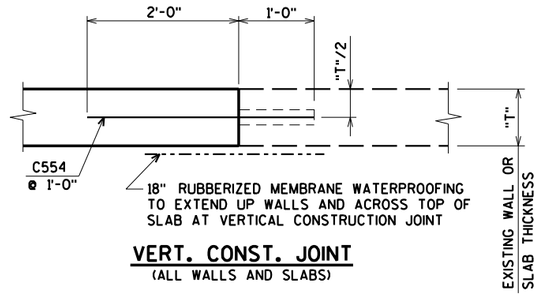
BUNDLE AND TAG EACH SERIES SEPARATELY.



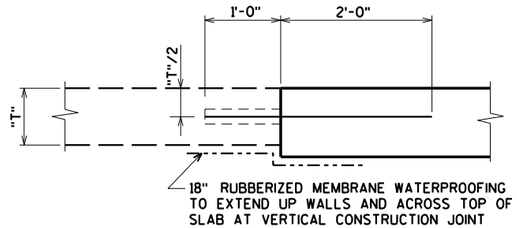
SECTION THRU CUTOFF WALLS



SECTION THRU ALTERNATE CUTOFF WALL



VERT. CONST. JOINT
(ALL WALLS AND SLABS)



VERT. CONST. JOINT
(EXTERIOR WALL & TOP OF SLAB SHOWN)
(INTERIOR WALL & BOTTOM SLAB SIMILAR)

E.F. DENOTES EACH FACE

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-358

DRAWN BY CLS | PLANS CK'D. AEB

BILL OF BARS AND DETAILS

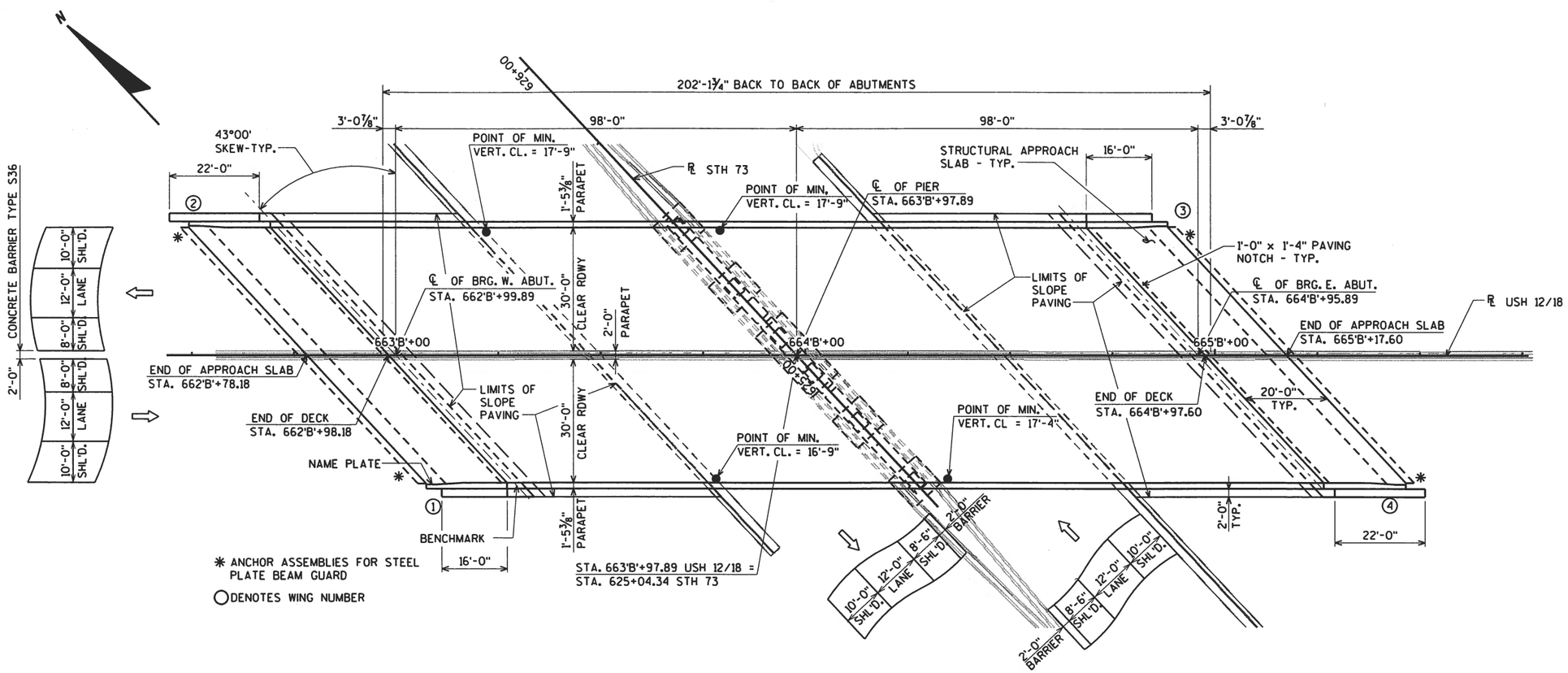
SHEET 8 OF 8
538

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
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$PRFNAME$
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STATE PROJECT NUMBER

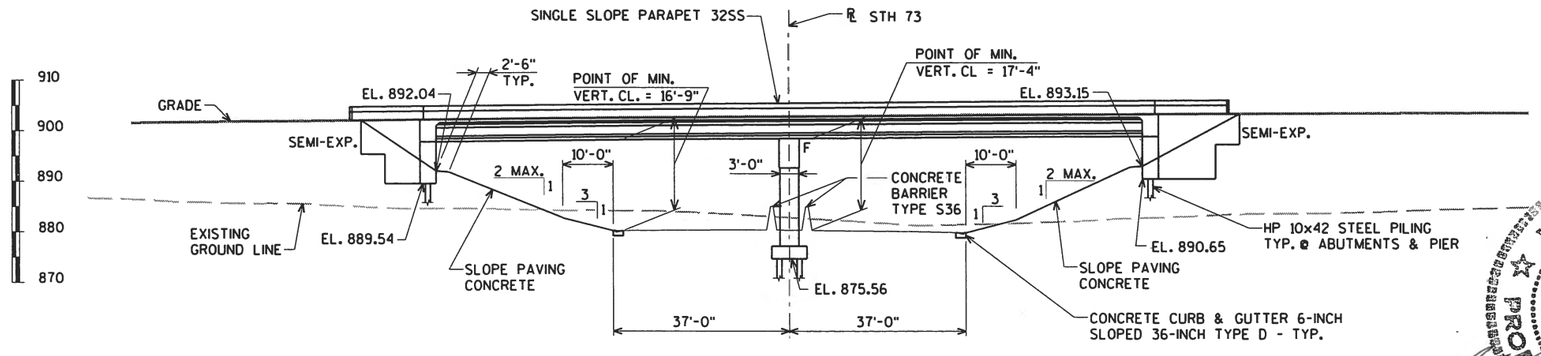
3070-00-73



PLAN

TWO SPAN - 45W" PRESTRESSED CONCRETE GIRDER BRIDGE

SEE SHEET 2 FOR CROSS SECTION THRU ROADWAY AND SEE SHEET 3 FOR DESIGN DATA.



ELEVATION

(TAKEN NORMAL TO ℄ OF STH 73)
(LOOKING NORTH)

LIST OF DRAWINGS

1. GENERAL PLAN
2. TYPICAL SECTION AND NOTES
3. DESIGN DATA AND QUANTITIES
4. SUBSURFACE EXPLORATION
5. WEST ABUTMENT
6. WEST ABUTMENT PILE LAYOUT
7. WEST ABUTMENT WING 1 DETAILS
8. WEST ABUTMENT WING 2 DETAILS
9. WEST ABUTMENT DETAILS
10. EAST ABUTMENT
11. EAST ABUTMENT PILE LAYOUT
12. EAST ABUTMENT WING 3 DETAILS
13. EAST ABUTMENT WING 4 DETAILS
14. EAST ABUTMENT DETAILS
15. ALTERNATE CONSTRUCTION JOINT
16. PIER
17. PIER FOOTINGS
18. PIER DETAILS
19. PIER ALTERNATE
20. 45W" PRESTRESSED GIRDER DETAILS
21. 45W" PRESTRESSED GIRDER DETAILS
22. STEEL DIAPHRAGM DETAILS
23. SUPERSTRUCTURE
24. SUPERSTRUCTURE PLAN
25. SUPERSTRUCTURE TRANSVERSE STEEL LAYOUT
26. SUPERSTRUCTURE DETAILS
27. SUPERSTRUCTURE CORNER DETAILS
28. SUPERSTRUCTURE DETAILS
29. WEST STRUCTURAL APPROACH SLAB
30. EAST STRUCTURAL APPROACH SLAB
31. STRUCTURAL APPROACH SLAB DETAILS
32. SINGLE SLOPE PARAPET 32SS WINGS 1 & 3
33. SINGLE SLOPE PARAPET 32SS WINGS 2 & 4
34. SLOPE PAVING CONCRETE

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 10/30/14
CHIEF STRUCTURES DESIGN ENGINEER — DATE

WISCONSIN CHRISTOPHER B. McMAHON E-29454 EAU CLAIRE WI PROFESSIONAL ENGINEER
10/29/14

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608)-266-8489

CONSULTANT CONTACT:
CHRIS MCMAHON
(715)-834-3161

STRUCTURE B-13-801

USH 12/18 OVER STH 73

COUNTY	TOWN/~~CITY/VILLAGE~~
DANE	DEERFIELD

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AEB		JCK	CBM

GENERAL PLAN

SHEET 539 OF 34

DATE:
DATE:
DATE:

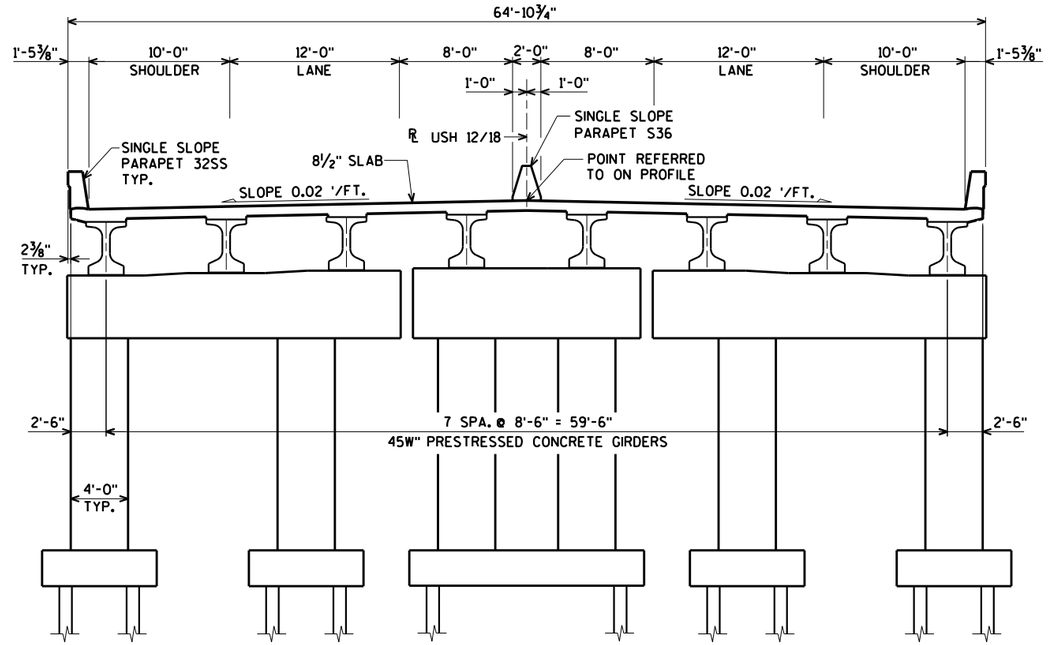
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BACK CHECKED BY:
CORRECTED BY:

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B-13-801 gp 1.dgn

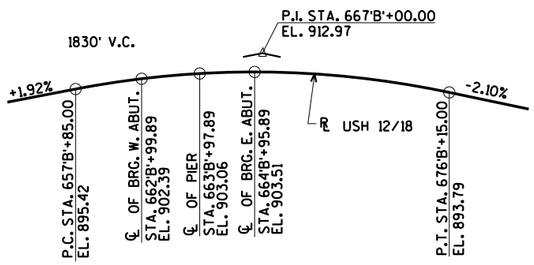
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10/23/2014 45-0376.06 - USH 12/18 Dane Partners STH 73 black tbl L.D. DATE:

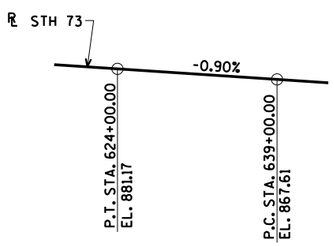
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CROSS SECTION THRU ROADWAY
(LOOKING EAST)

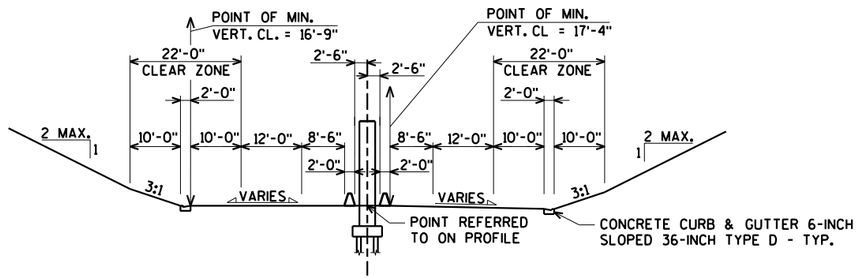


PROFILE GRADE LINE
(USH 12/18)



PROFILE GRADE LINE
(STH 73)

BENCHMARK: CHIS. SQ. ON OUTFALL STRUCTURE
STA: 665'B'+32.18
EL: 888.40



TYPICAL FINISHED SECTION STH 73
(LOOKING NORTH)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET, THE ABUTMENT DETAILS, AND ON THE SLOPE PAVING CONCRETE SHEET.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMIT OF "EXCAVATION FOR STRUCTURES BRIDGES B-13-801" AT THE ABUTMENTS AND PIER.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE TOP OF DECK AND THE TOP AND INSIDE FACES OF PARAPETS.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE HAUNCH CONCRETE QUANTITY IS BASED ON AN AVERAGE HAUNCH DEPTH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEETS.

AT THE BACK FACE OF ABUTMENT, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

THE CONTRACTOR MAY FURNISH PRECAST PIER CAPS, BEARING BLOCKS, AND COLUMNS IN LIEU OF THE CAST-IN-PLACE PIER WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. CONTACT DAVE KIEKBUSCH (608-266-5084) OR JAMES LUEBKE (608-266-5098) FOR PRECAST PIER MEMBER STANDARDS. PAYMENT FOR THE PRECAST PIER MEMBERS SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES" FOR THE CAST-IN-PLACE OPTION.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

TYPICAL SECTION AND NOTES

SHEET 2 OF 34
540

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STATE PROJECT NUMBER

3070-00-73

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	W. STR. APR. SLAB	W. ABUT.	PIER	E. ABUT.	E. STR. APR. SLAB	SUPER.	TOTAL
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-13-801	LS	----	----	----	----	----	----	1
210.0100	BACKFILL STRUCTURE	CY	----	225	----	230	----	----	455
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	185	----	----	----	185	----	370
502.0100	CONCRETE MASONRY BRIDGES	CY	119	123	146	123	119	579	1,209
502.3200	PROTECTIVE SURFACE TREATMENT	SY	165	----	----	----	165	1,700	2,030
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	----	----	----	----	----	1,574	1,574
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	----	9,630	4,140	9,670	----	----	23,440
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	16,580	1,140	20,580	1,140	16,580	104,270	160,290
506.2605	BEARING PADS ELASTOMERIC NON-LAMINTED	EACH	----	8	16	8	----	----	32
506.4000	STEEL DIAPHRAGMS B-13-801	EACH	----	----	----	----	----	28	28
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	----	22	----	22	----	----	44
550.1100	PILING STEEL HP 10-INCH x 42 LB	LF	----	1,360	4,180	1,360	----	----	6,900
604.0400	SLOPE PAVING CONCRETE	SY	----	280	----	280	----	----	560
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	----	370	----	370	----	----	740
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	----	----	----	2	----	4
SPV.0085.701	BAR STEEL REINFORCEMENT HS STAINLESS BRIDGES	LB	1,110	----	----	----	1,110	----	2,220
	NON-BID ITEMS								
	FILLER	SIZE	-----	-----	-----	-----	-----	-----	1/2" & 3/4"

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: 1.06
OPERATING RATING FACTOR: 1.38
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 210 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 #/S.F.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY { SLAB ____ f'c = 4,000 p.s.i.
ALL OTHER ____ f'c = 3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60) ____ f'y = 60,000 p.s.i.
STRUCTURAL CARBON STEEL ASTM A709 (GRADE 36) ____ f'y = 36,000 p.s.i.

45W" PRESTRESSED GIRDER
CONCRETE MASONRY ____ f'c = 7,000 p.s.i.
STRANDS - 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF = 270,000 p.s.i.

FOUNDATION DATA:

ABUTMENTS TO BE SUPPORTED ON HP 10 x 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 170 TONS ‡ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 85'-0".

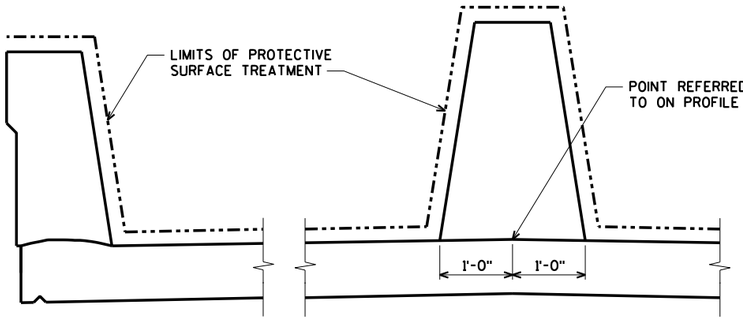
PIER TO BE SUPPORTED ON HP 10 x 42 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS ‡ PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA. ESTIMATED LENGTH 95'-0".

‡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.

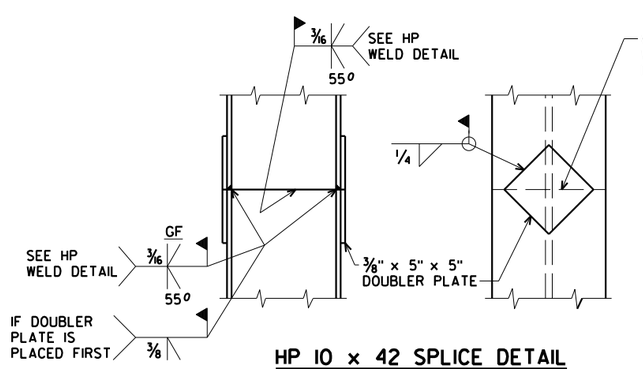
TRAFFIC DATA:

USH 12/18:
A.D.T. = 10,200 - 11,900 (2014)
A.D.T. = 12,300 - 14,400 (2034)
R.D.S. = 60 M.P.H.

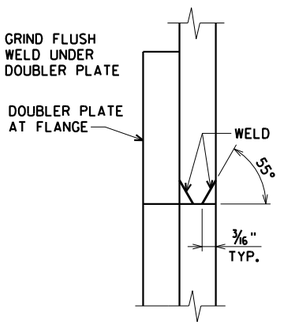
STH 73:
A.D.T. = 2,900 - 4,300 (2014)
A.D.T. = 4,200 - 6,300 (2034)
R.D.S. = 60 M.P.H.



PROTECTIVE SURFACE TREATMENT DETAIL



HP 10 x 42 SPLICE DETAIL



HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

DESIGN DATA AND QUANTITIES

SHEET 3 OF 34
541

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B-13-801 gp 2,3.dgn

8

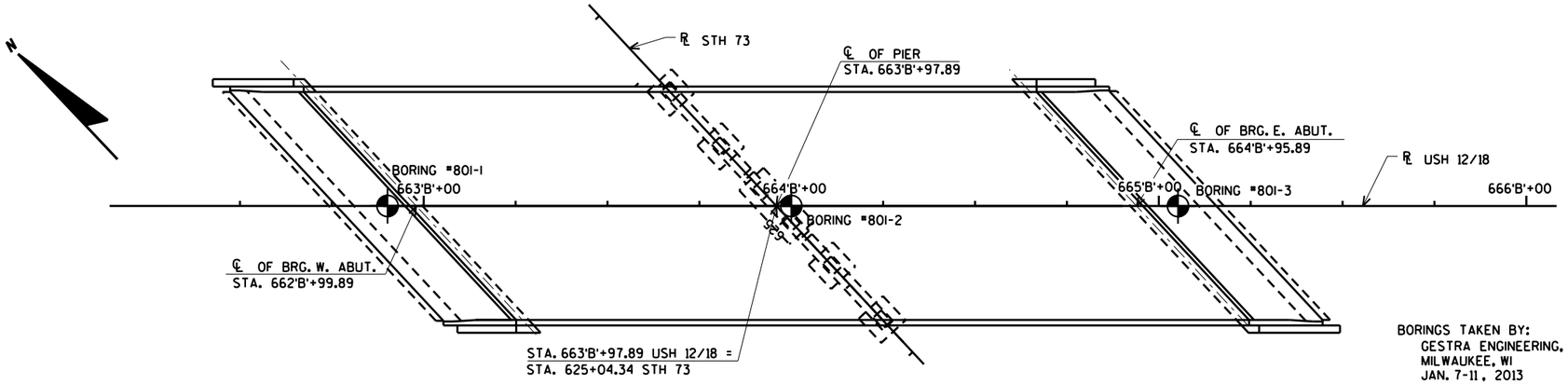
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10/23/2014

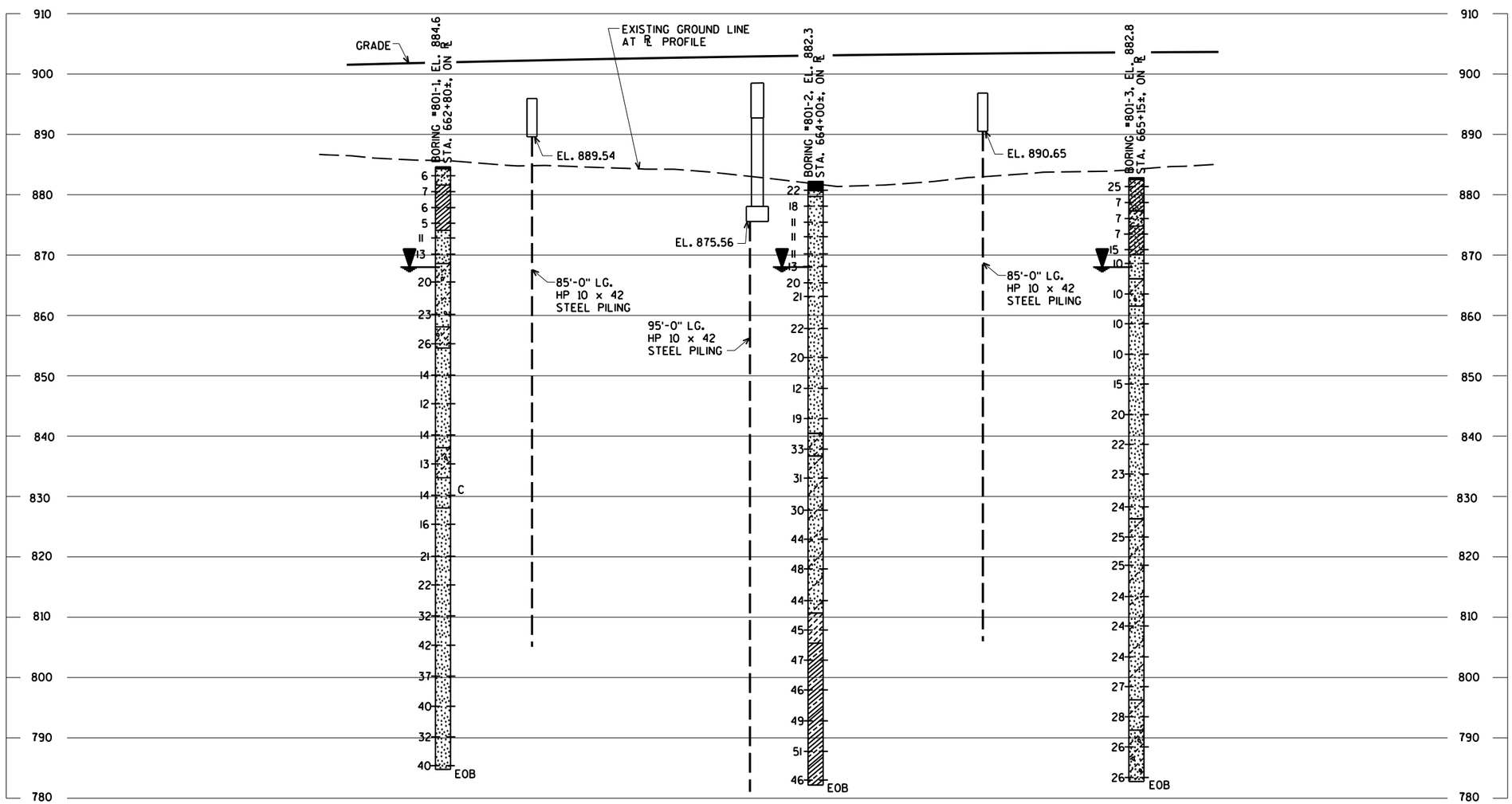
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BORINGS TAKEN BY:
GESTRA ENGINEERING, INC.
MILWAUKEE, WI
JAN. 7-11, 2013



STATE PROJECT NUMBER

3070-00-73

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
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.

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STRUCTURE B-13-801

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SUBSURFACE EXPLORATION

SHEET 4 OF 34
542

8

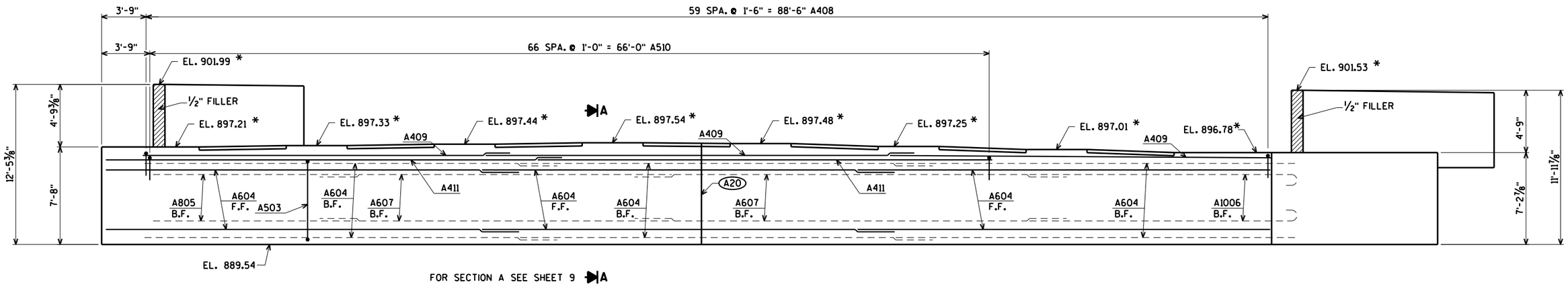
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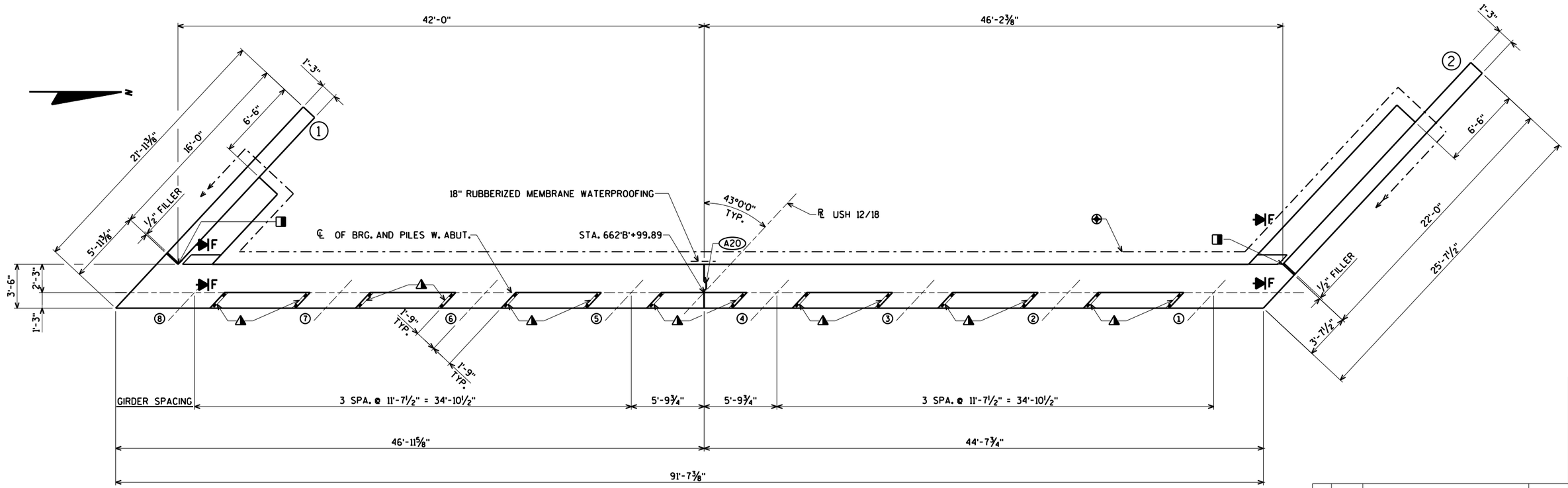
NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

* ELEVATIONS AND DIMENSIONS TAKEN AT ℄ OF BRG. & PILES W. ABUT.

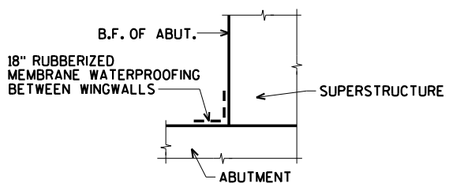
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3070-00-73



ELEVATION
(LOOKING WEST)



PLAN



SECTION F

⊕ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE AS DIRECTED BY THE ENGINEER. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 9.

(A20) VERT. CONST. JT. - KEYWAY FORMED BY A SURFACED BEVELED 2" x 8". BEVEL EXPOSED EDGES ¾". FOR ALTERNATE CONST. JT. DETAILS SEE SHEET 15

◨ 18" RUBBERIZED MEMBRANE WATERPROOFING FROM BRIDGE SEAT TO TOP OF WING.

⚠ ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

WORK THIS SHEET WITH SHEETS 6 THRU 9

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

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WEST ABUTMENT

SHEET 5 OF 34
543

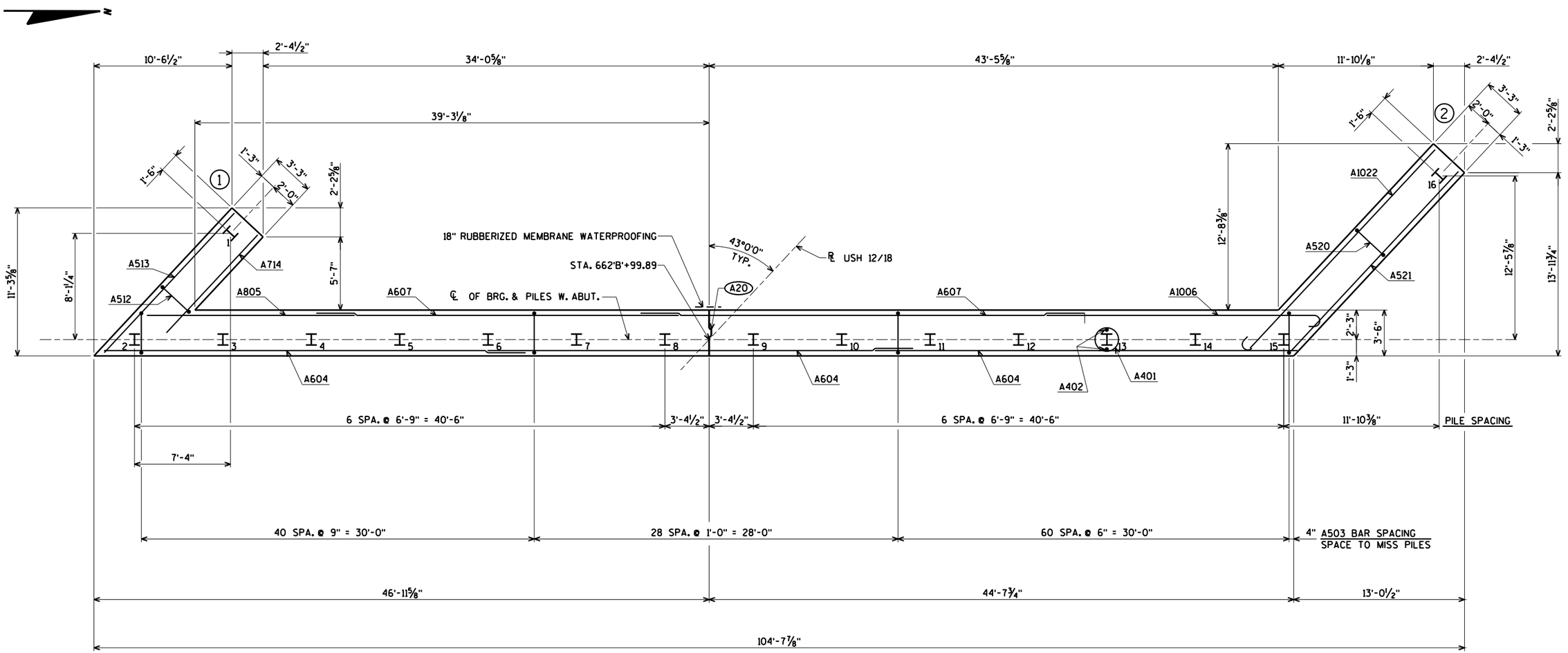
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STATE PROJECT NUMBER
3070-00-73



PILE LAYOUT

(A20) VERT. CONST. JT. - KEYWAY FORMED BY A SURFACED BEVELED 2" x 8". BEVEL EXPOSED EDGES ¾". FOR ALTERNATE CONST. JT. DETAILS SEE SHEET 15

FOR PILE SPLICE DETAIL SEE SHEET 3.

WORK THIS SHEET WITH SHEETS 5 & 7 THRU 9

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STATE OF WISCONSIN
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STRUCTURE B-13-801

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WEST ABUTMENT
PILE LAYOUT

SHEET 6 OF 34
544

8

8

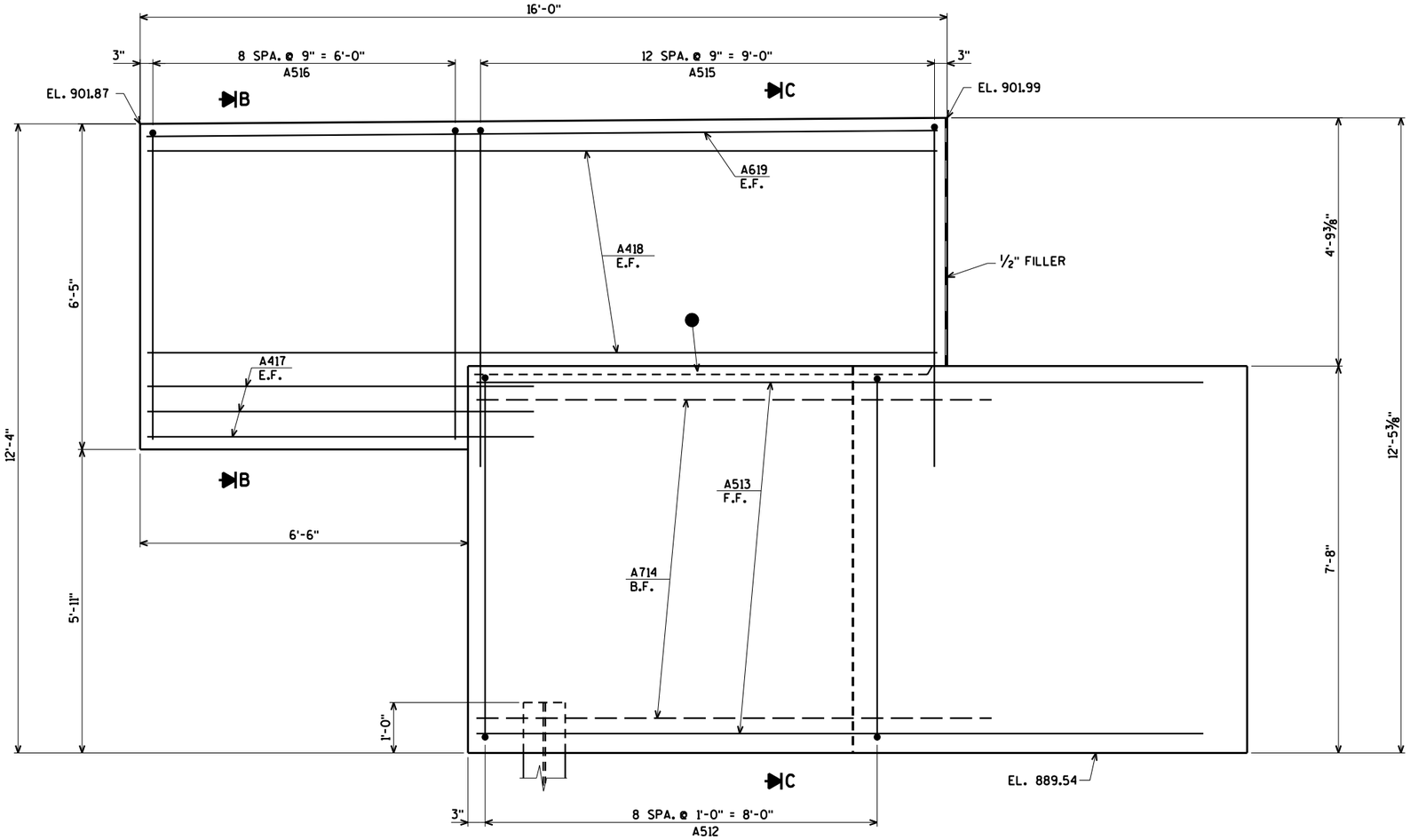
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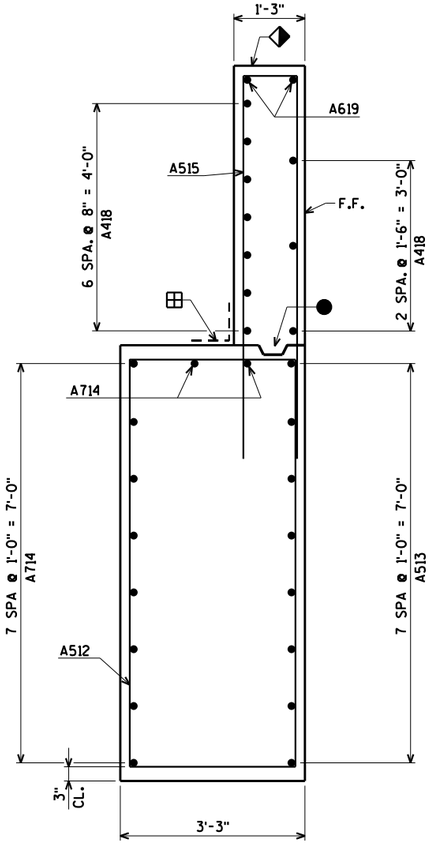
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STATE PROJECT NUMBER

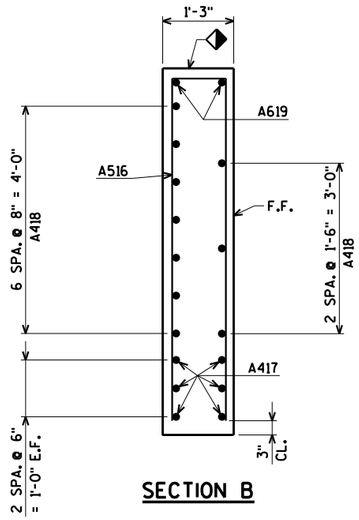
3070-00-73



ELEVATION - WING 1



SECTION C



SECTION B

SLOPE AWAY FROM APPROACH SLAB PARAPET FOR DRAINAGE

● OPT. KEYED CONST. JOINT - FORMED BY A SURFACED BEVELED 2" x 6".

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

WEST ABUTMENT WING 1 DETAILS

SHEET 7 OF 34
545

WORK THIS SHEET WITH SHEETS 5 THRU 6 & 8 THRU 9

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

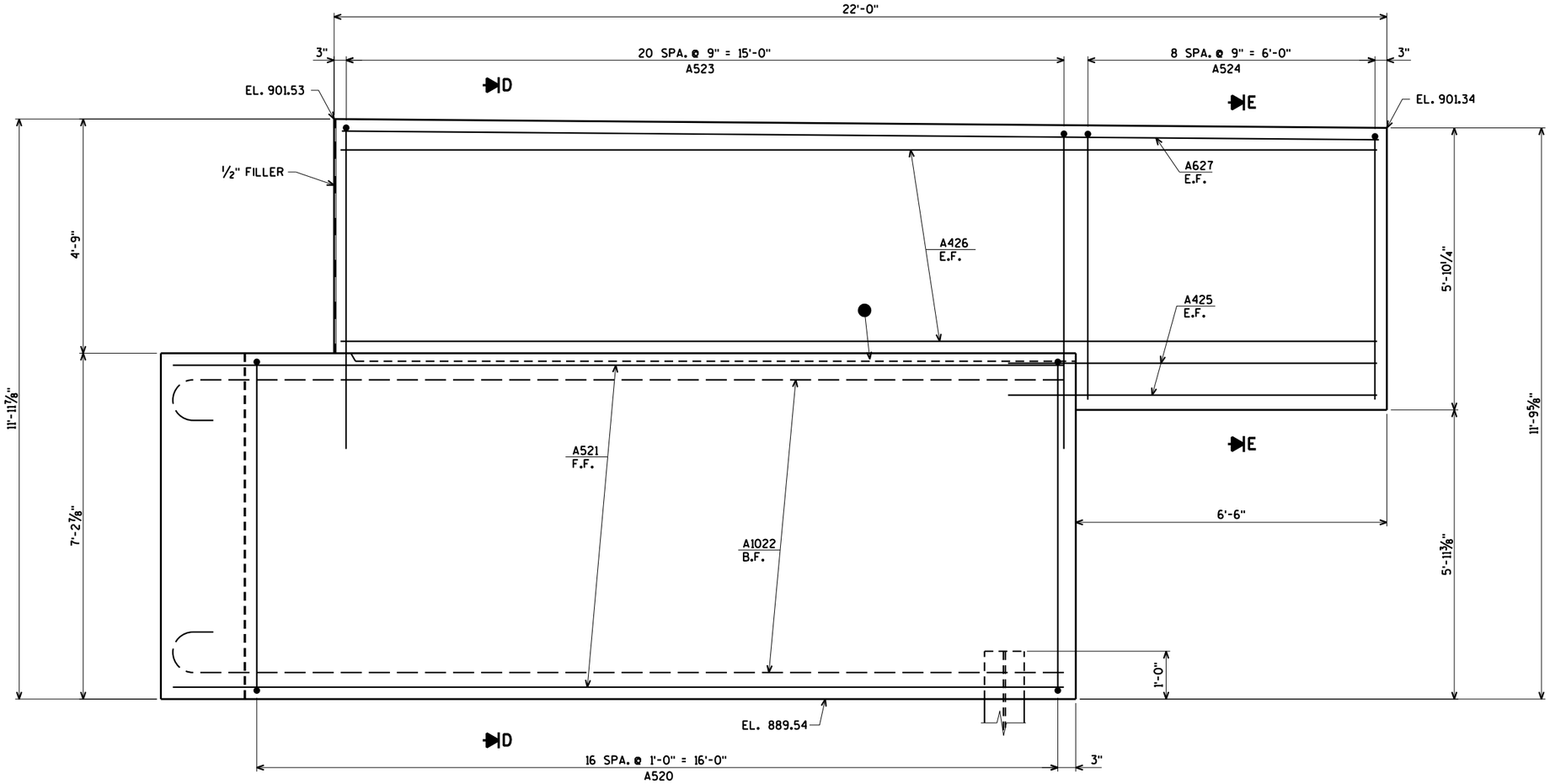
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8/12/2014

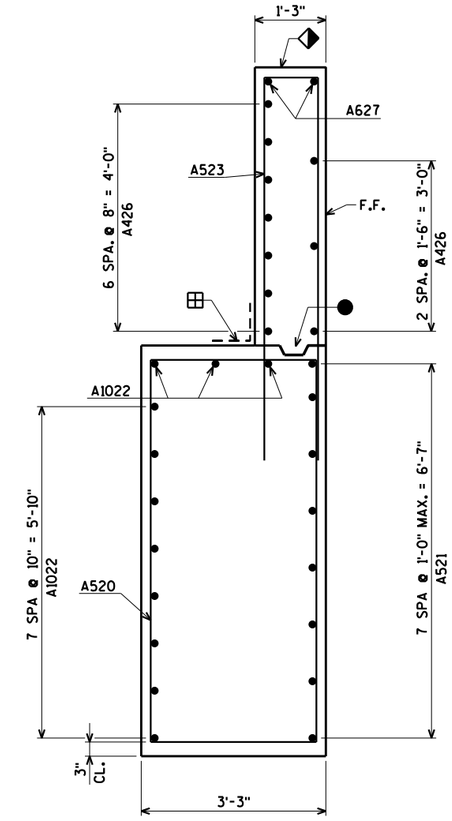
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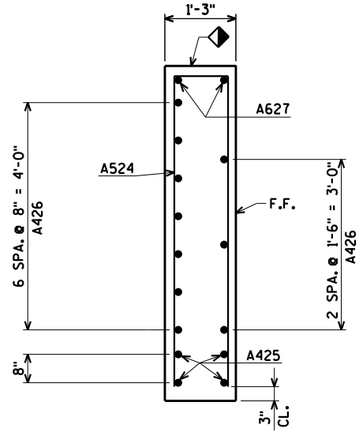
STATE PROJECT NUMBER
3070-00-73



ELEVATION - WING 2



SECTION D



SECTION E

- ◇ SLOPE AWAY FROM APPROACH SLAB PARAPET FOR DRAINAGE
- ● OPT. KEYED CONST. JOINT - FORMED BY A SURFACED BEVELED 2" x 6".
- ⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY	JCK	PLANS CK'D.	CBM

WEST ABUTMENT WING 2 DETAILS

SHEET 8 OF 34
546

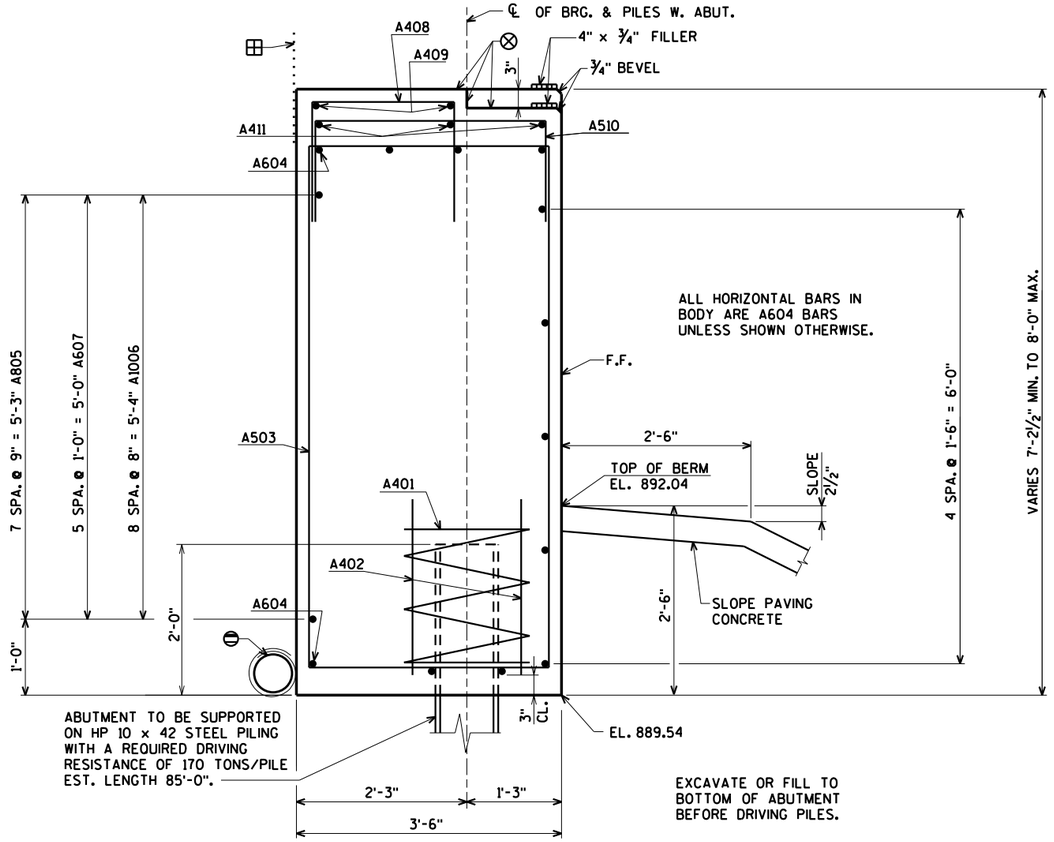
WORK THIS SHEET WITH SHEETS 5 THRU 7 & 9

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

$PRFNAME$
U:\41-0660.0X - IH-39 Dane Partners General Bridge Information_USH 12 over STH 73 B-13-801\BRIDGE\B-13-801 w abut.dgn

STATE PROJECT NUMBER

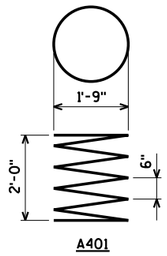
3070-00-73



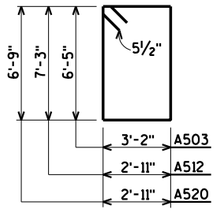
SECTION A

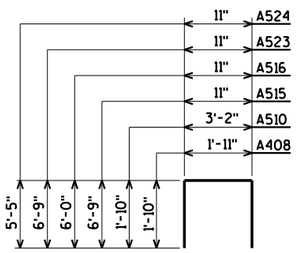
FOR LOCATION SEE SHEET 5

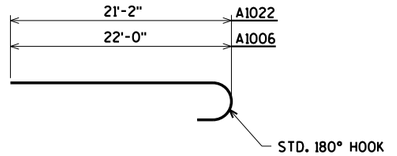
EXCAVATE OR FILL TO BOTTOM OF ABUTMENT BEFORE DRIVING PILES.



A401







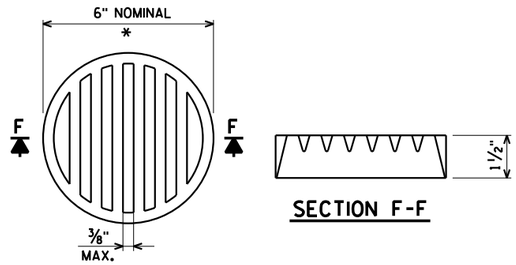
BILL OF BARS

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	1,140# COATED 9,630# UNCOATED LOCATION
A401		16	28-0	X		BODY @ PILES
A402		32	2-3			BODY @ PILES
A503		129	19-10	X		BODY VERT.
A604		36	32-6			BODY HORIZ.
A805		8	16-0			BODY HORIZ. B.F. @ WING 1
A1006		9	23-5	X		BODY HORIZ. B.F. @ WING 2
A607		12	31-0			BODY HORIZ. B.F.
A408		60	5-5	X		BODY VERT.
A409		6	31-0			BODY HORIZ.
A510		67	6-7	X		BODY VERT.
A411		6	34-3			BODY HORIZ.
A512		9	21-0	X		WING 1 VERT.
A513		8	14-7			WING 1 HORIZ. F.F.
A714		10	10-3			WING 1 HORIZ.
A515	X	13	14-2	X		WING 1 VERT.
A516	X	9	12-8	X		WING 1 VERT.
A417	X	6	7-9			WING 1 HORIZ. E.F.
A418	X	10	15-7			WING 1 HORIZ. E.F.
A619	X	2	15-7			WING 1 HORIZ. E.F.
A520		17	20-0	X		WING 2 VERT.
A521		8	18-7			WING 2 HORIZ. F.F.
A1022		11	22-7	X		WING 2 HORIZ.
A523	X	21	14-2	X		WING 2 VERT.
A524	X	9	11-6	X		WING 2 VERT.
A425	X	4	7-9			WING 2 HORIZ. E.F.
A426	X	10	21-7			WING 2 HORIZ. E.F.
A627	X	2	21-7			WING 2 HORIZ. E.F.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊖ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE AS DIRECTED BY THE ENGINEER. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET.

⊗ STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS AND/OR SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".



SECTION F-F

* 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 INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE 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.

RODENT SHIELD DETAIL

FOR PILE SPLICE DETAIL SEE SHEET 3

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

WEST ABUTMENT DETAILS

SHEET 9 OF 34
547

WORK THIS SHEET WITH SHEETS 5 THRU 8

ORIGINAL PLANS PREPARED BY
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Eau Claire, WI 54701
www.AyresAssociates.com

8

8

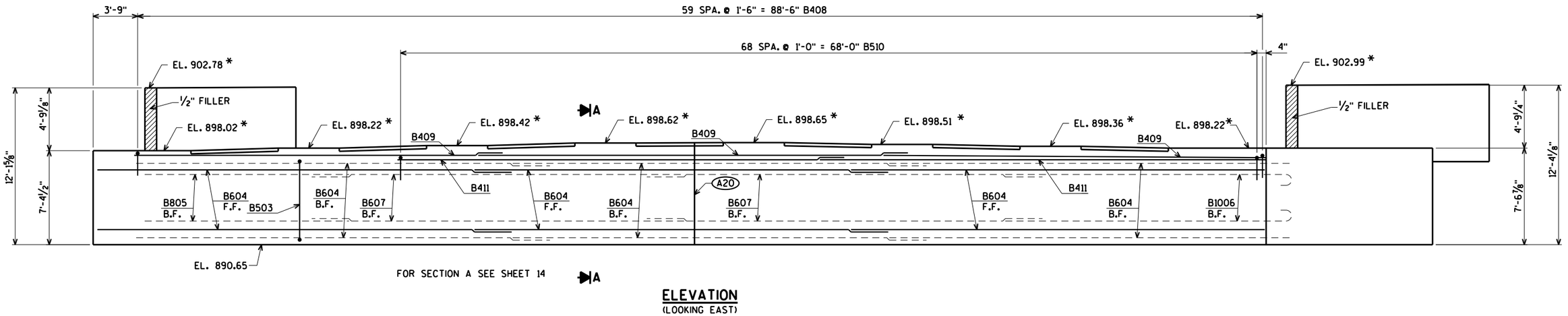
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NOTE: SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE.)

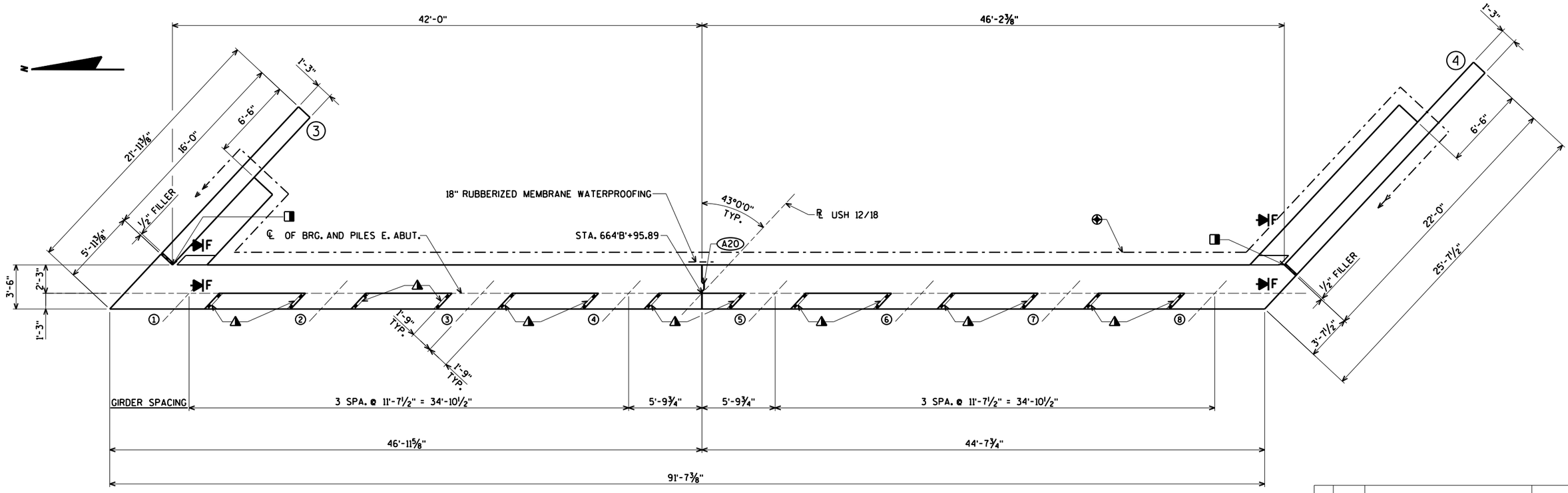
* ELEVATIONS AND DIMENSIONS TAKEN AT ℄ OF BRG. & PILES E. ABUT.

STATE PROJECT NUMBER

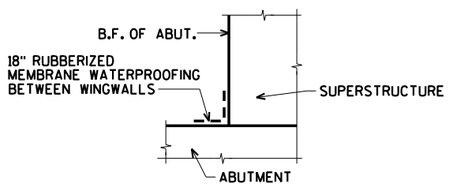
3070-00-73



ELEVATION
(LOOKING EAST)



PLAN



SECTION F

⊕ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE AS DIRECTED BY THE ENGINEER. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 14.

(A20) VERT. CONST. JT. - KEYWAY FORMED BY A SURFACED BEVELED 2" x 8". BEVEL EXPOSED EDGES ¾". FOR ALTERNATE CONST. JT. DETAILS SEE SHEET 15

◨ 18" RUBBERIZED MEMBRANE WATERPROOFING FROM BRIDGE SEAT TO TOP OF WING.

⚠ ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

WORK THIS SHEET WITH SHEETS 11 THRU 14

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

EAST ABUTMENT

SHEET 10 OF 34
548

ORIGINAL PLANS PREPARED BY
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3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

8

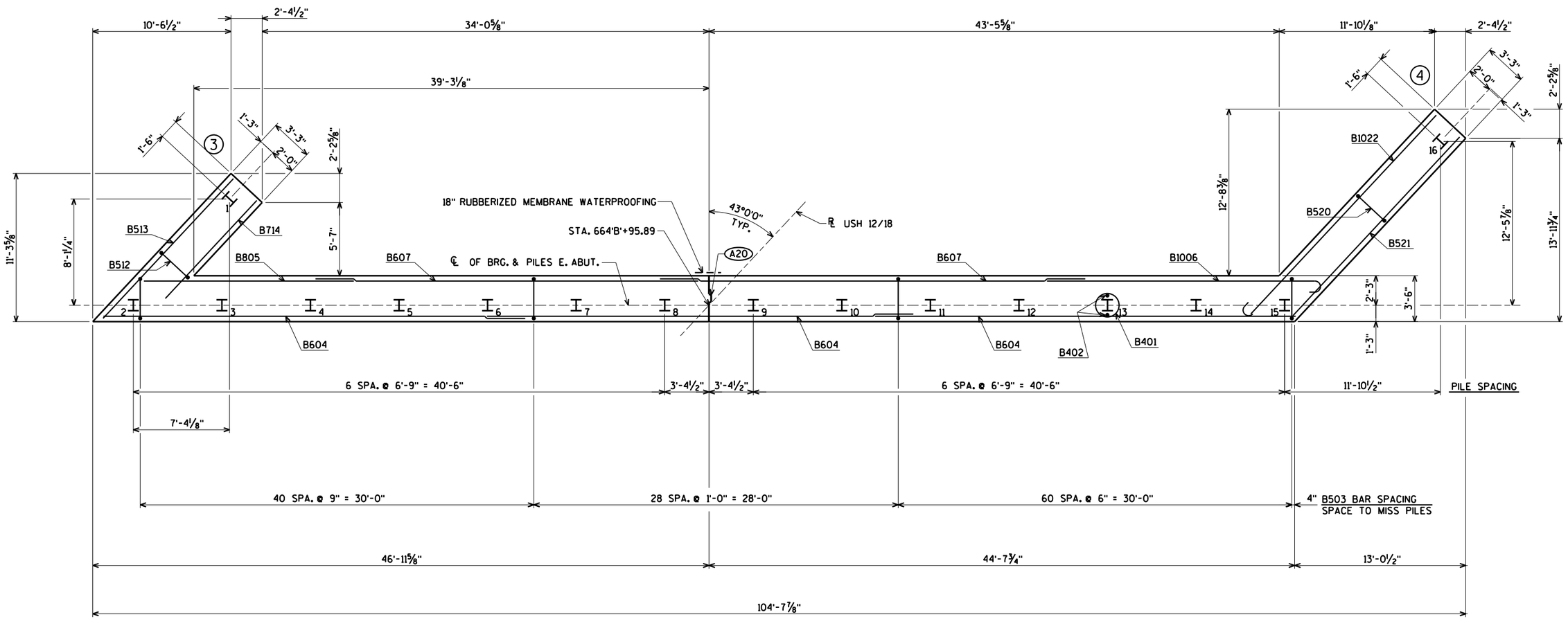
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8/12/2014

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STATE PROJECT NUMBER
3070-00-73



PILE LAYOUT

(A20) VERT. CONST. JT. - KEYWAY FORMED BY A SURFACED BEVELED 2" x 8". BEVEL EXPOSED EDGES ¾". FOR ALTERNATE CONST. JT. DETAILS SEE SHEET 15

FOR PILE SPLICE DETAIL SEE SHEET 3.

WORK THIS SHEET WITH SHEETS 10 & 12 THRU 14

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

EAST ABUTMENT
PILE LAYOUT

SHEET 11 OF 34
549

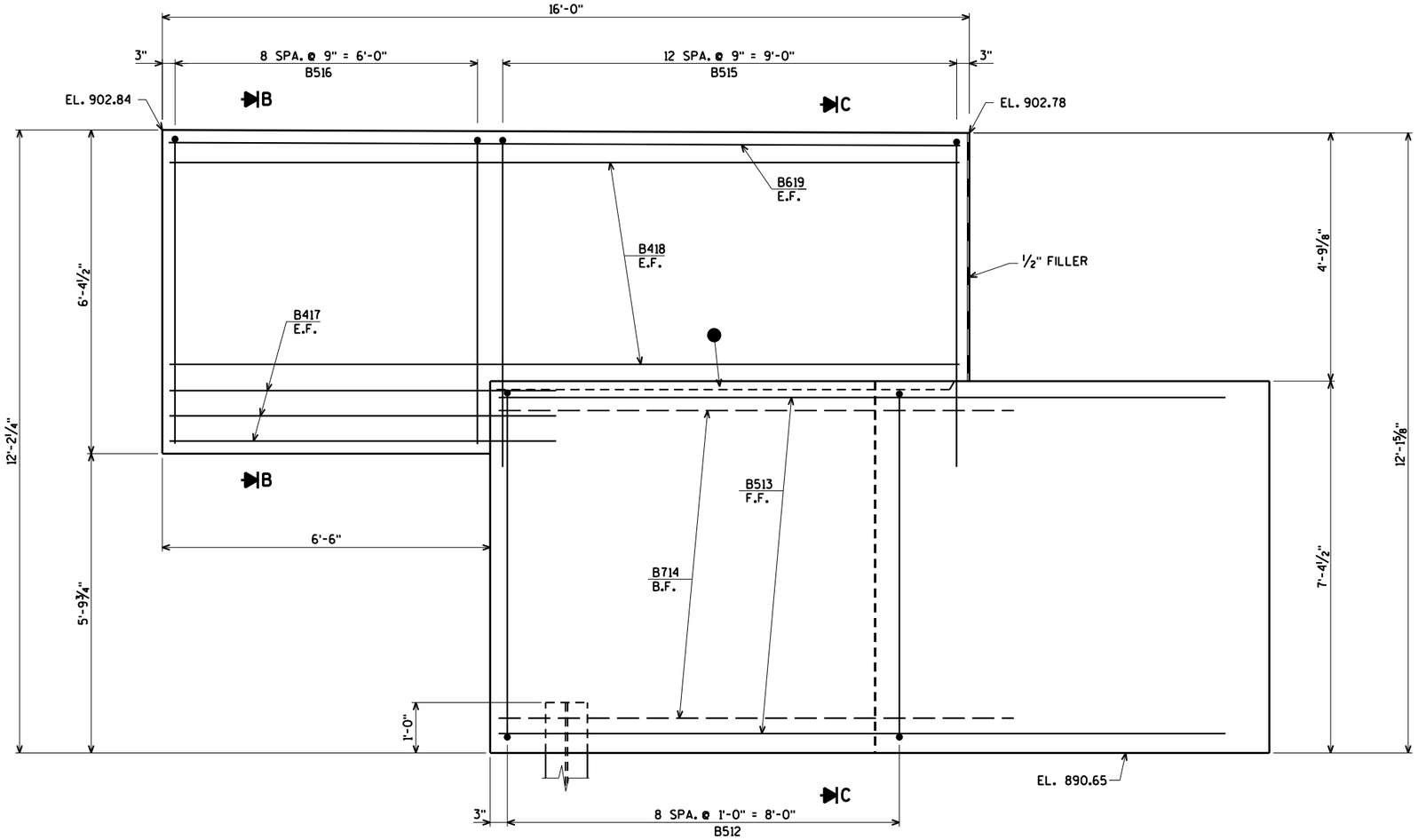
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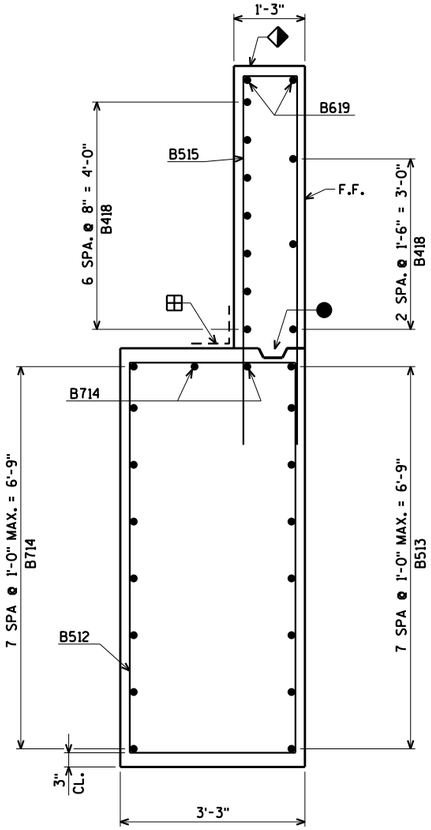
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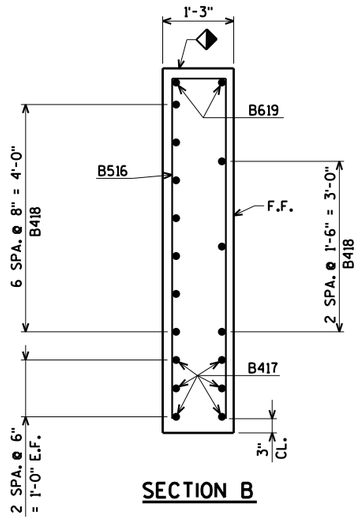
3070-00-73



ELEVATION - WING 3



SECTION C



SECTION B

◆ SLOPE AWAY FROM APPROACH SLAB PARAPET FOR DRAINAGE

● OPT. KEYED CONST. JOINT - FORMED BY A SURFACED BEVELED 2" x 6".

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE.

WORK THIS SHEET WITH SHEETS 10 THRU 11 & 13 THRU 14

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

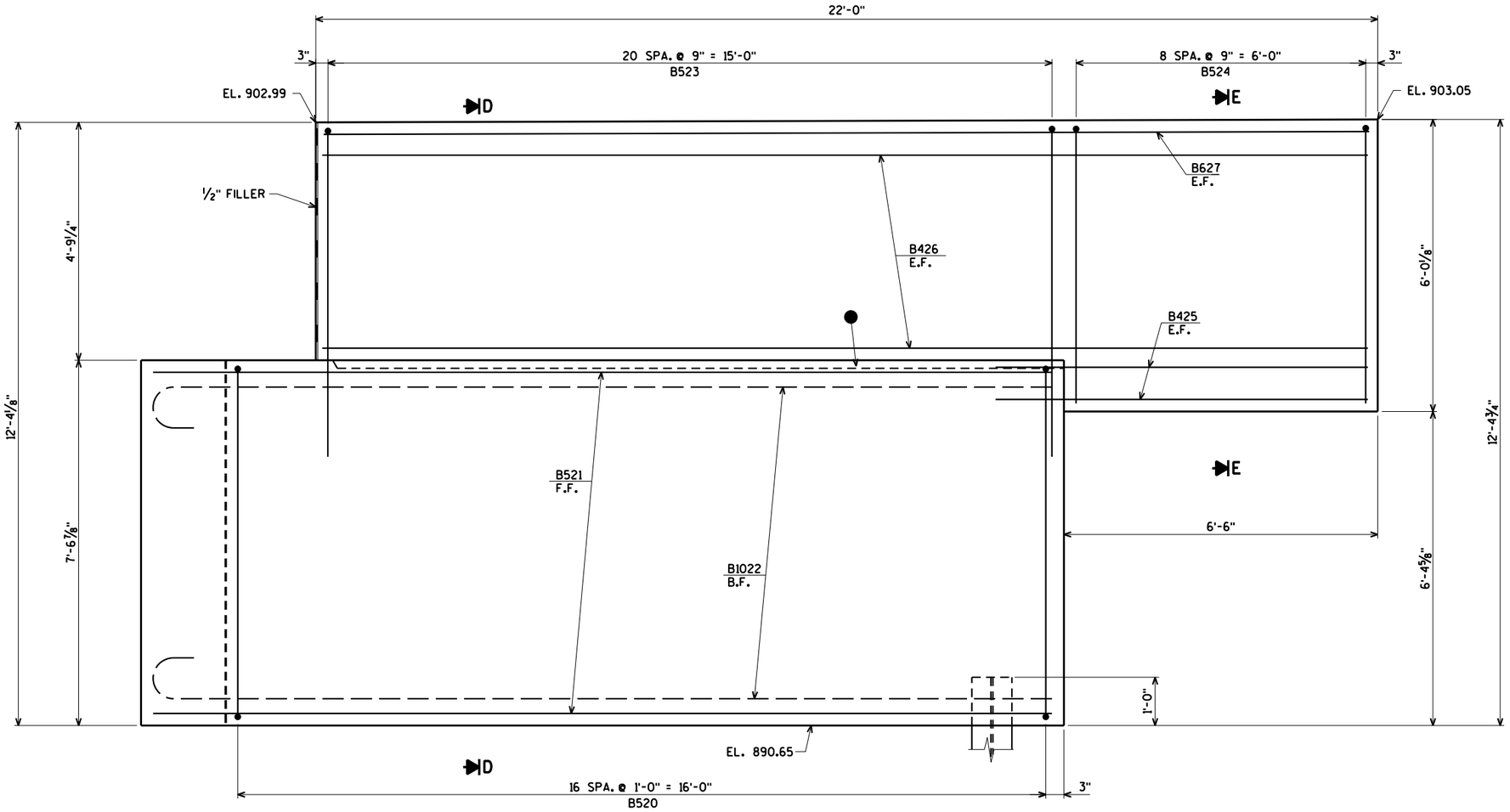
EAST ABUTMENT
WING 3 DETAILS

SHEET 12 OF 34
550

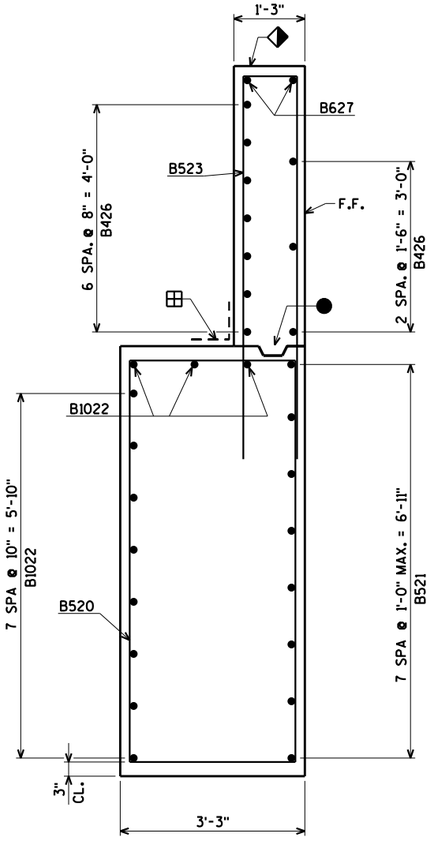
ORIGINAL PLANS PREPARED BY
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8

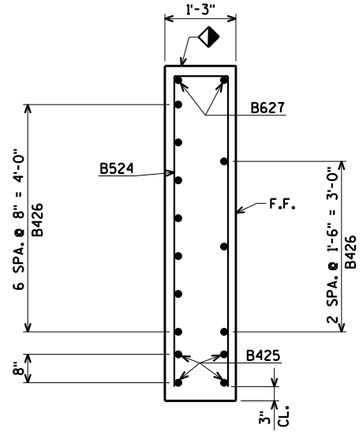
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ELEVATION - WING 4



SECTION D



SECTION E

SLOPE AWAY FROM APPROACH SLAB PARAPET FOR DRAINAGE

● OPT. KEYED CONST. JOINT - FORMED BY A SURFACED BEVELED 2" x 6".

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

EAST ABUTMENT
WING 4 DETAILS

SHEET 13 OF 34
551

WORK THIS SHEET WITH SHEETS 10 THRU 12 & 14

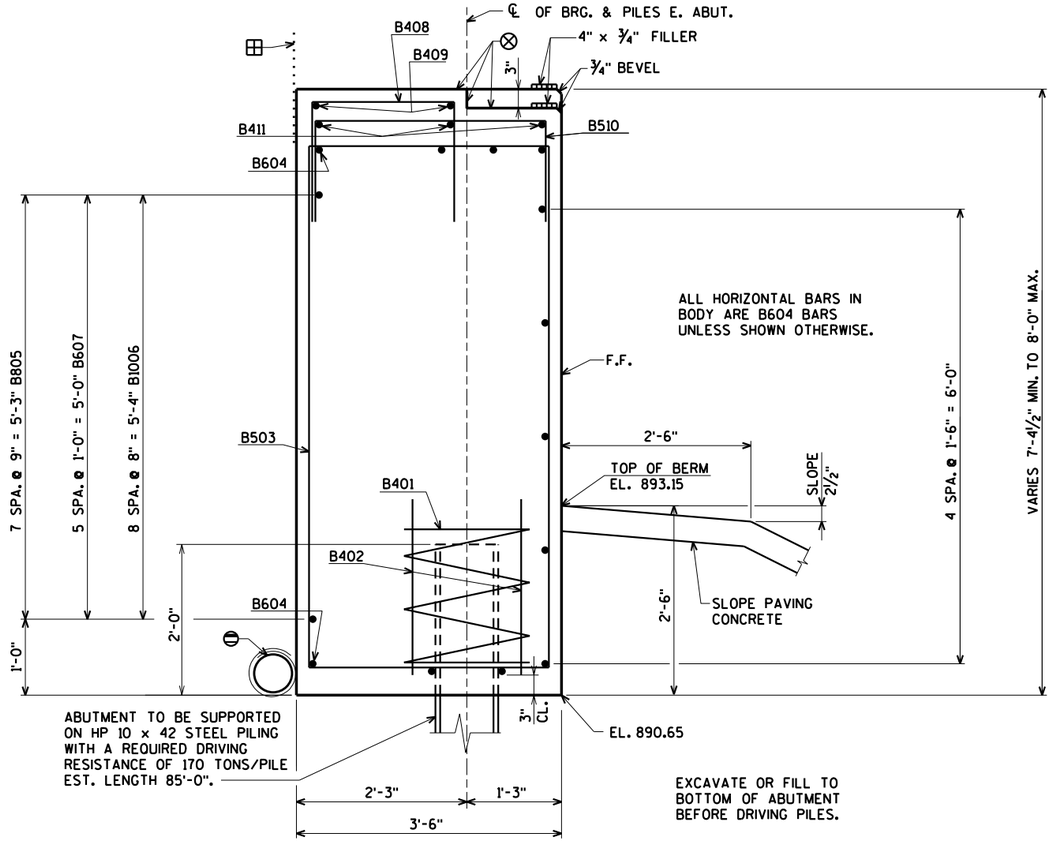
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STATE PROJECT NUMBER

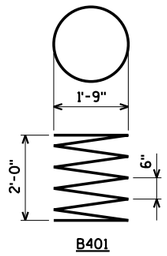
3070-00-73



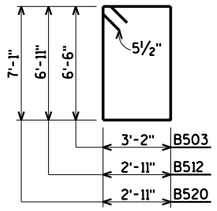
SECTION A

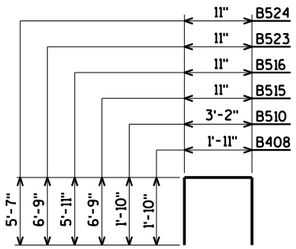
FOR LOCATION SEE SHEET 10

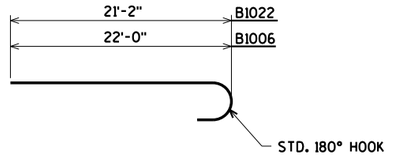
EXCAVATE OR FILL TO BOTTOM OF ABUTMENT BEFORE DRIVING PILES.



B401







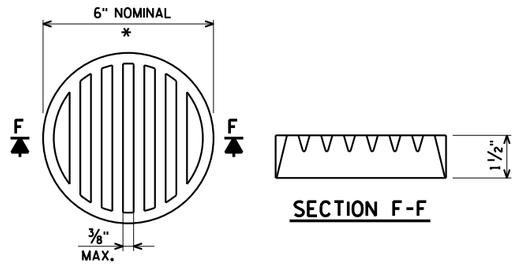
BILL OF BARS

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	1.140" COATED 9.670" UNCOATED LOCATION
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B402		32	2-3			BODY @ PILES
B503		129	20-0	X		BODY VERT.
B604		36	32-6			BODY HORIZ.
B805		8	16-0			BODY HORIZ. B.F. @ WING 3
B1006		9	23-5	X		BODY HORIZ. B.F. @ WING 4
B607		12	31-0			BODY HORIZ. B.F.
B408		60	5-5	X		BODY VERT.
B409		6	31-0			BODY HORIZ.
B510		69	6-7	X		BODY VERT.
B411		6	35-3			BODY HORIZ.
B512		9	20-4	X		WING 3 VERT.
B513		8	14-7			WING 3 HORIZ. F.F.
B714		10	10-3			WING 3 HORIZ.
B515	X	13	14-2	X		WING 3 VERT.
B516	X	9	12-6	X		WING 3 VERT.
B417	X	6	7-9			WING 3 HORIZ. E.F.
B418	X	10	15-7			WING 3 HORIZ. E.F.
B619	X	2	15-7			WING 3 HORIZ. E.F.
B520		17	20-8	X		WING 4 VERT.
B521		8	18-7			WING 4 HORIZ. F.F.
B1022		11	22-7	X		WING 4 HORIZ.
B523	X	21	14-2	X		WING 4 VERT.
B524	X	9	11-10	X		WING 4 VERT.
B425	X	4	7-9			WING 4 HORIZ. E.F.
B426	X	10	21-7			WING 4 HORIZ. E.F.
B627	X	2	21-7			WING 4 HORIZ. E.F.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊖ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE AS DIRECTED BY THE ENGINEER. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET.

⊗ STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS AND/OR SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".



SECTION F-F

* 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 INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE 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 × 1-INCH SHEET METAL SCREWS.

RODENT SHIELD DETAIL

FOR PILE SPLICE DETAIL SEE SHEET 3

⊞ 18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE OF ABUTMENT.

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

E.F. DENOTES EACH FACE

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STRUCTURE B-13-801

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EAST ABUTMENT DETAILS

SHEET 14 OF 34
552

WORK THIS SHEET WITH SHEETS 10 THRU 13

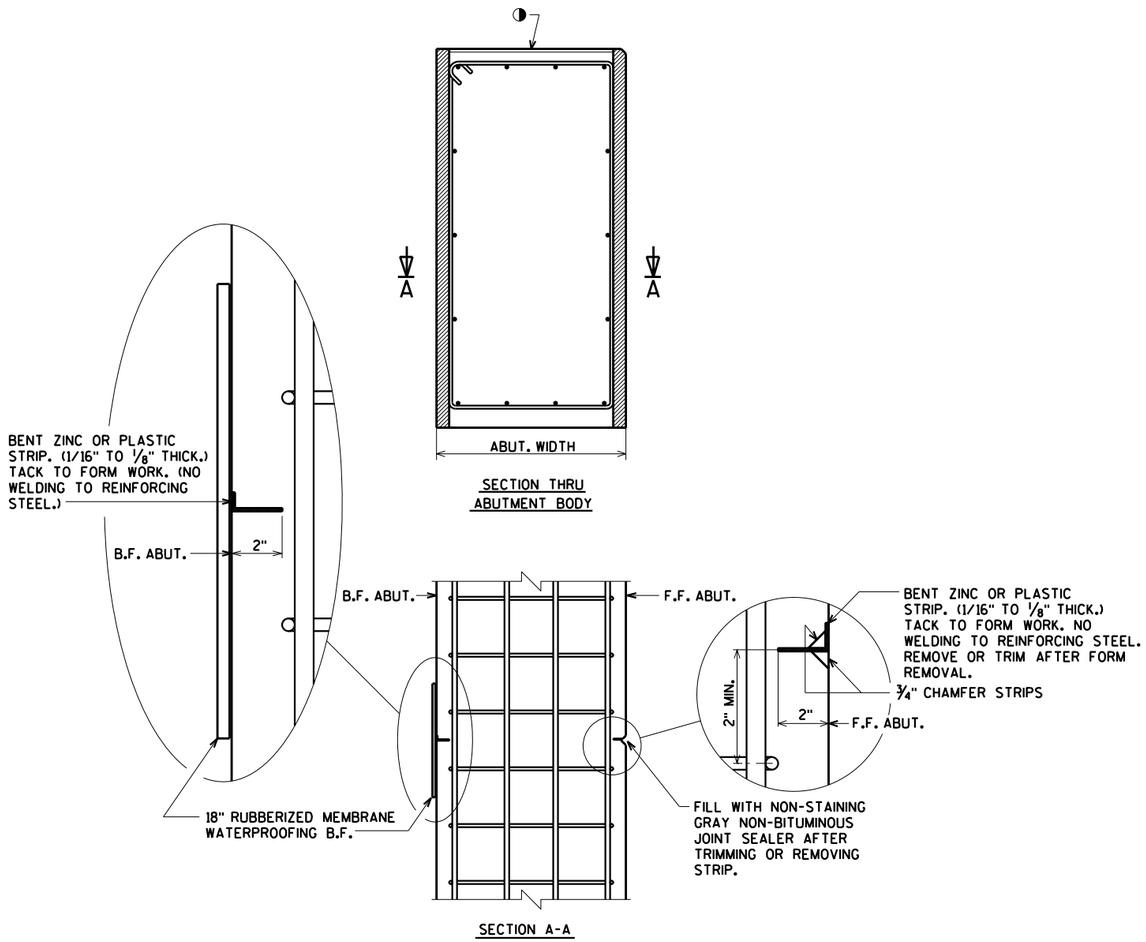
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STATE PROJECT NUMBER
3070-00-73



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.

F.F. DENOTES FRONT FACE

B.F. DENOTES BACK FACE

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STRUCTURE B-13-801

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ALTERNATE CONSTRUCTION JOINT

SHEET 15 OF 34
553

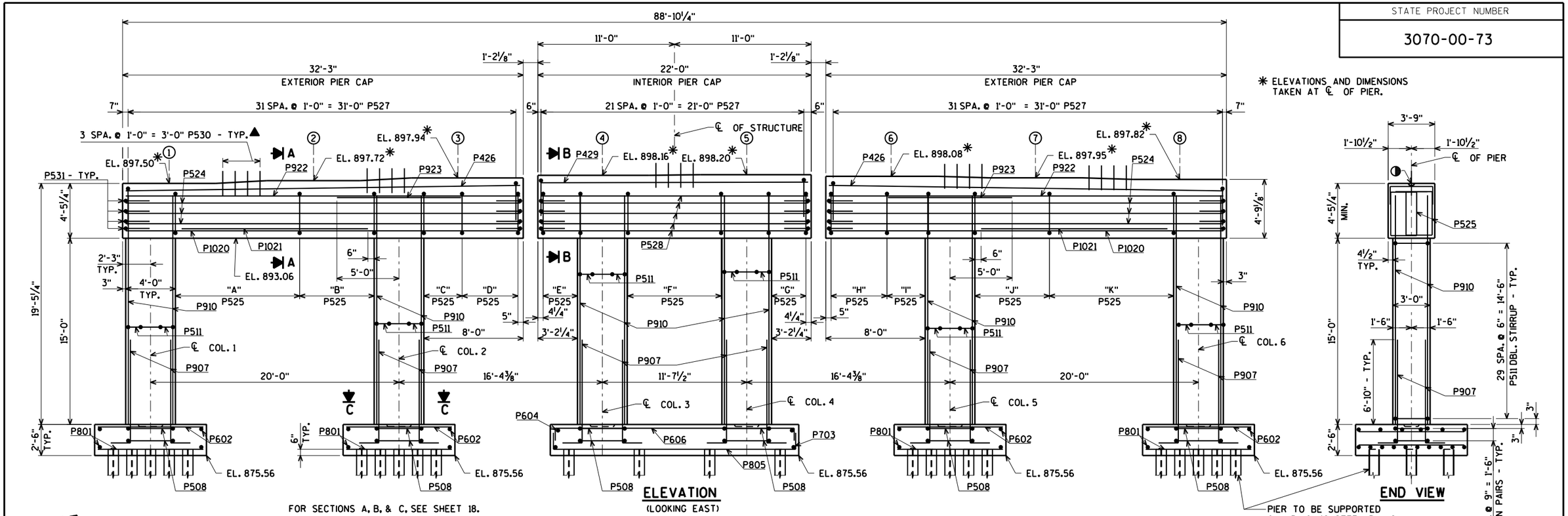
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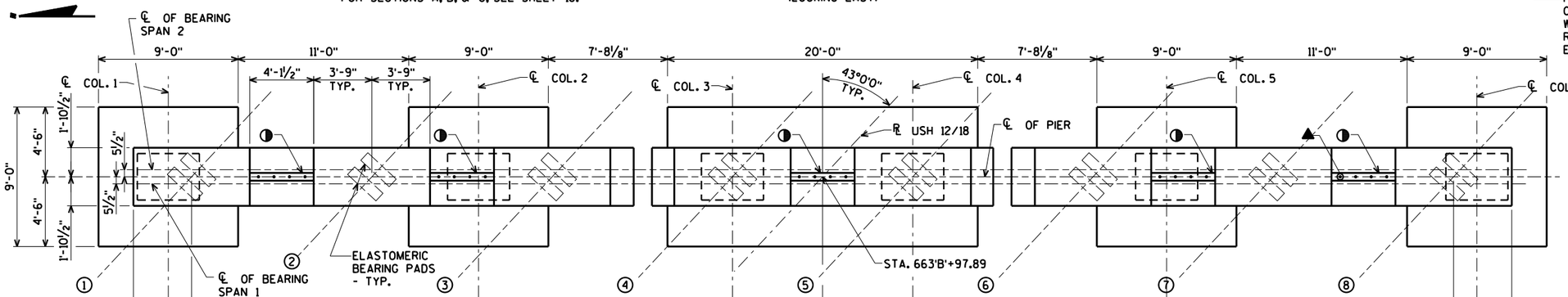
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STATE PROJECT NUMBER

3070-00-73





PLAN

P525 DOUBLE STIRRUP SPACING
"A" = 10 SPA. @ 1'-0" = 10'-0"
"B" = 12 SPA. @ 6" = 6'-0"
"C" = 8 SPA. @ 5" = 3'-4"
"D" = 3 SPA. @ 1'-5" = 4'-3"
"E" = 2 SPA. @ 1'-5" = 2'-10"
"F" = 5 SPA. @ 1'-7" MAX. = 7'-7½"
"G" = 2 SPA. @ 1'-5" = 2'-10"
"H" = 3 SPA. @ 1'-5" = 4'-3"
"I" = 8 SPA. @ 5" = 3'-4"
"J" = 12 SPA. @ 6" = 6'-0"
"K" = 10 SPA. @ 1'-0" = 10'-0"

◑ KEYED CONSTRUCTION JOINT. FORMED BY SURFACED BEVELED 2" X 6" BETWEEN BEAM SEATS.

▲ P530 BARS AT 1'-0" CENTERS, BETWEEN BEAM SEATS. EMBED 1'-0" INTO CAP CONCRETE. PLACE BARS BEFORE CONCRETE HAS TAKEN INITIAL SET.

WORK THIS SHEET WITH SHEETS 17 THRU 19.

FOR PILE SPLICE DETAIL, SEE SHEET 3.

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PIER

SHEET 16 OF 34
554

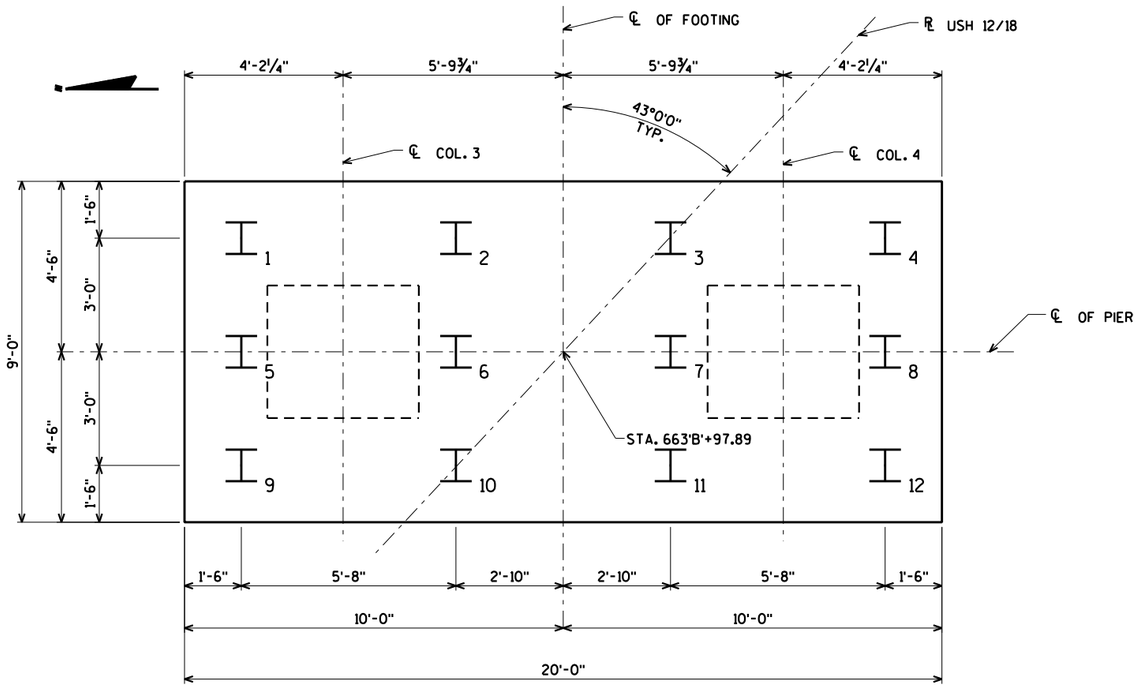
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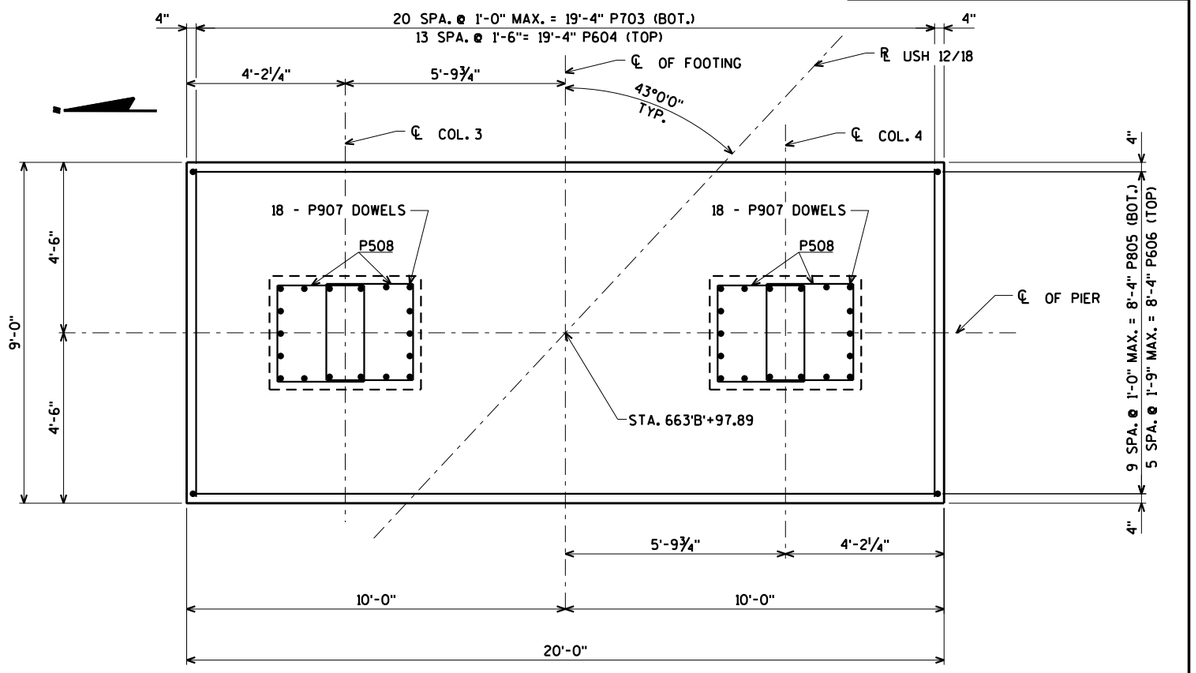
STATE PROJECT NUMBER

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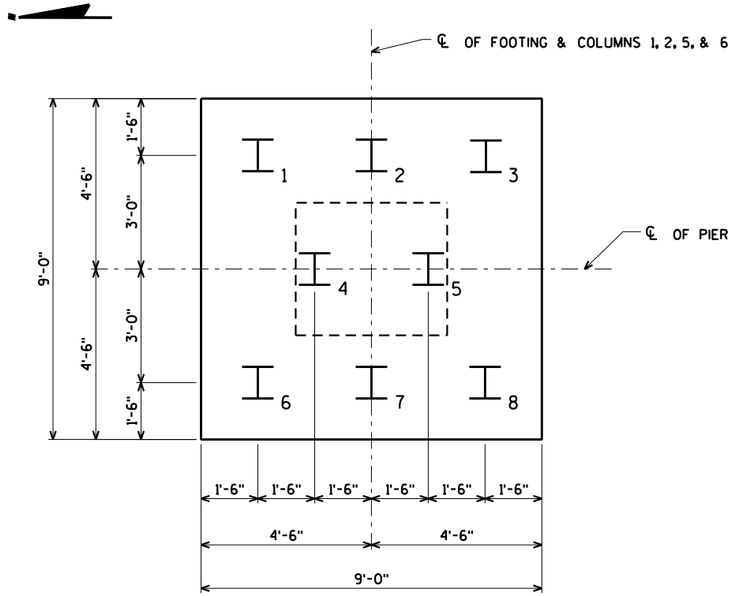
FOOTING PILE LAYOUT COLUMNS 3 & 4

(1 REQUIRED)



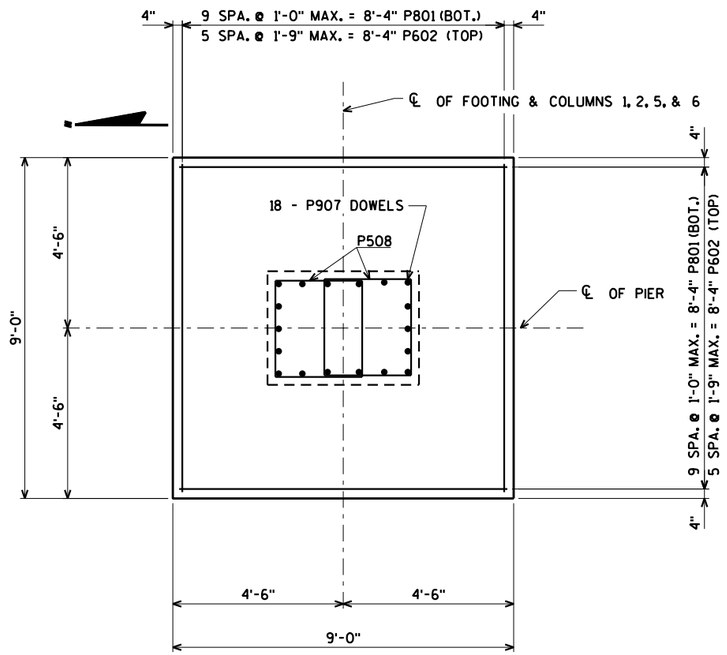
FOOTING REINFORCEMENT PLAN COLUMNS 3 & 4

(1 REQUIRED)



FOOTING PILE LAYOUT COLUMNS 1, 2, 5, & 6

(4 REQUIRED)



FOOTING REINFORCEMENT PLAN COLUMNS 1, 2, 5, & 6

(4 REQUIRED)

FOR PILE SPLICE DETAIL SEE SHEET 3.

WORK THIS SHEET WITH SHEETS 16, 18, & 19

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STRUCTURE B-13-801

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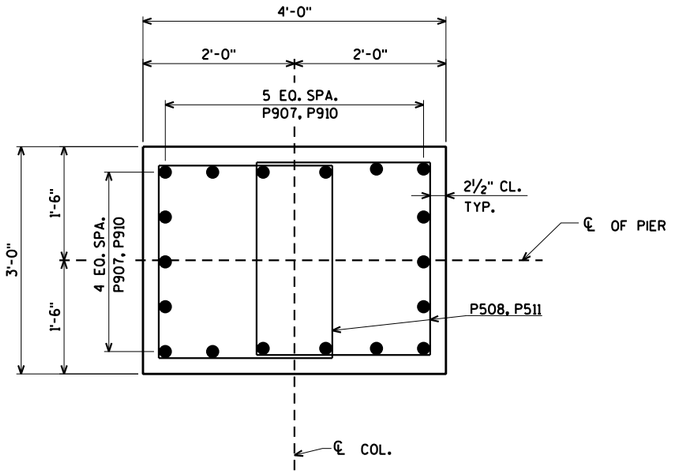
PIER FOOTINGS

SHEET 17 OF 34
555

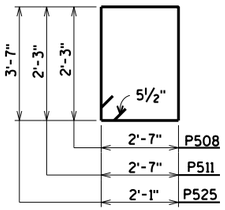
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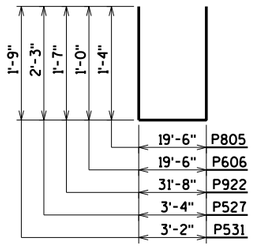
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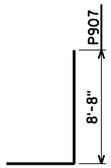
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SECTION C
(TYPICAL COLUMN)







BILL OF BARS - PIER FOOTINGS

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	3,610# COATED 4,140# UNCOATED LOCATION
P801		80	8-6			COL. 1, 2, 5, & 6 FOOTINGS, BOT.
P602		48	8-6			COL. 1, 2, 5, & 6 FOOTINGS, TOP.
P703		21	8-6			COL. 3 & 4 FOOTING, BOT.
P604		14	8-6			COL. 3 & 4 FOOTING, TOP
P805		10	22-0	X		COL. 3 & 4 FOOTING, BOT.
P606		6	21-4	X		COL. 3 & 4 FOOTING, TOP
P907	X	108	9-10	X		FOOTING VERT. DOWELS TO COLUMN
P508		36	10-4	X		FOOTING TIES

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

BILL OF BARS - PIER COLUMNS

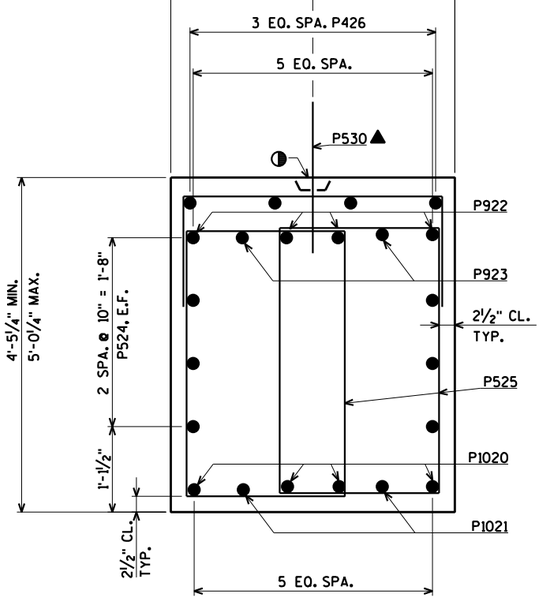
BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	10,670# COATED LOCATION
P910	X	108	18-6			COLUMN VERTICAL
P511	X	360	10-4	X		COLUMN TIES

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

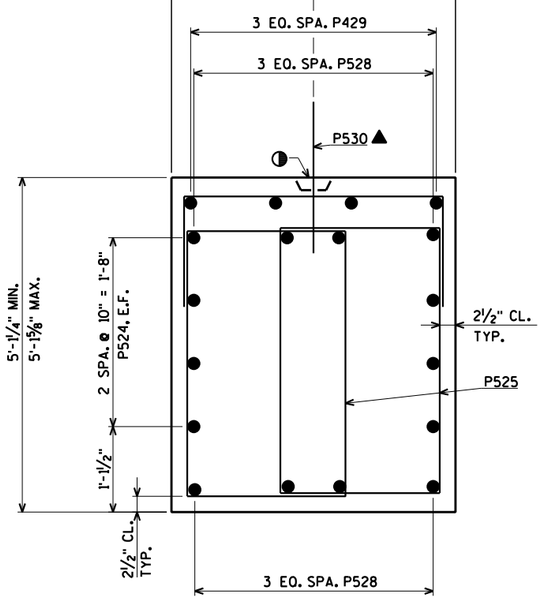
BILL OF BARS - PIER CAPS (CAST-IN-PLACE OPTION)

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR SERIES	6,300# COATED LOCATION
P1020	X	8	31-9			EXTERIOR CAP HORIZ. BOT.
P1021	X	4	15-0			EXTERIOR CAP HORIZ. BOT.
P922	X	8	34-4	X		EXTERIOR CAP HORIZ. TOP
P923	X	4	10-0			EXTERIOR CAP HORIZ. TOP
P524	X	12	31-9			EXTERIOR CAP HORIZ.
P525	X	164	12-0	X		CAP VERT.
P426	X	8	31-9			EXTERIOR CAP HORIZ. TOP
P527	X	86	7-7	X		CAP VERT.
P528	X	14	21-6			INTERIOR CAP HORIZ.
P429	X	4	21-6			INTERIOR CAP HORIZ. TOP
P530	X	20	2-0			CAP VERT. TOP BTWN. BEAM SEATS
P531	X	24	6-7	X		CAP HORIZ. ENDS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



SECTION A
(TYPICAL EXTERIOR PIER CAP)



SECTION B
(INTERIOR PIER CAP)

WORK THIS SHEET WITH SHEETS 16 THRU 18, & 19

▲P530 BARS AT 1'-0" CENTERS, BETWEEN BEAM SEATS. EMBED 1'-0" INTO CAP CONCRETE. PLACE BARS BEFORE CONCRETE HAS TAKEN INITIAL SET.

◑KEYED CONSTRUCTION JOINT. FORMED BY SURFACED BEVELED 2" X 6" BETWEEN BEAM SEATS.

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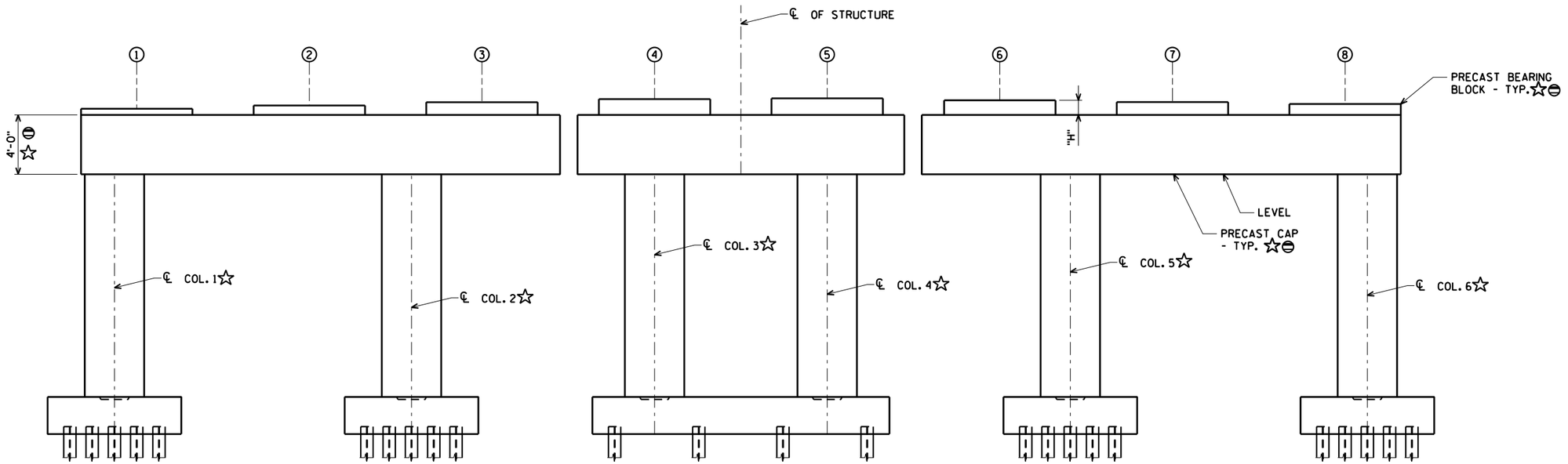
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PIER DETAILS

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ELEVATION OF OPTIONAL PRECAST PIER

(LOOKING EAST)
FOR INFORMATION ONLY
CONTACT DAVE KIEKBUSCH (608-266-5084) AND
JAMES LUEBKE (608-266-5098) FOR PRECAST DETAILS

☆ THE CONTRACTOR MAY FURNISH PRECAST PIER CAPS, BEARING BLOCKS, AND COLUMNS IN LIEU OF THE CAST-IN-PLACE PIER WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. CONTACT DAVE KIEKBUSCH (608-266-5084) OR JAMES LUEBKE (608-266-5098) FOR PRECAST PIER MEMBER STANDARDS. PAYMENT FOR THE PRECAST PIER MEMBERS SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITES" FOR THE CAST-IN-PLACE OPTION.

⊖ IF THE CONTRACTOR CHOOSES TO FURNISH PRECAST PIER MEMBERS, THE CAP HEIGHT SHALL BE 4'-0". THE REMAINING DIFFERENCE BETWEEN THE BEAM SEAT ELEVATIONS AND THE TOP OF THE 4'-0" CAP WILL BE THE "H" DIMENSION OF THE PRECAST BEARING BLOCKS.

WORK THIS SHEET WITH SHEETS 16 THRU 18.

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PIER ALTERNATE

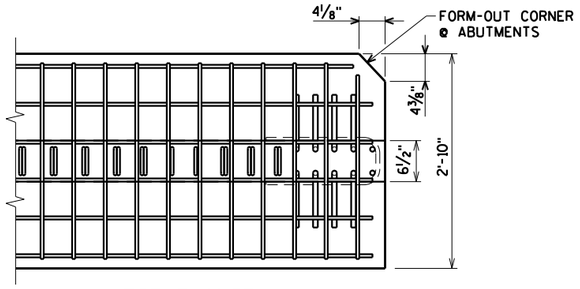
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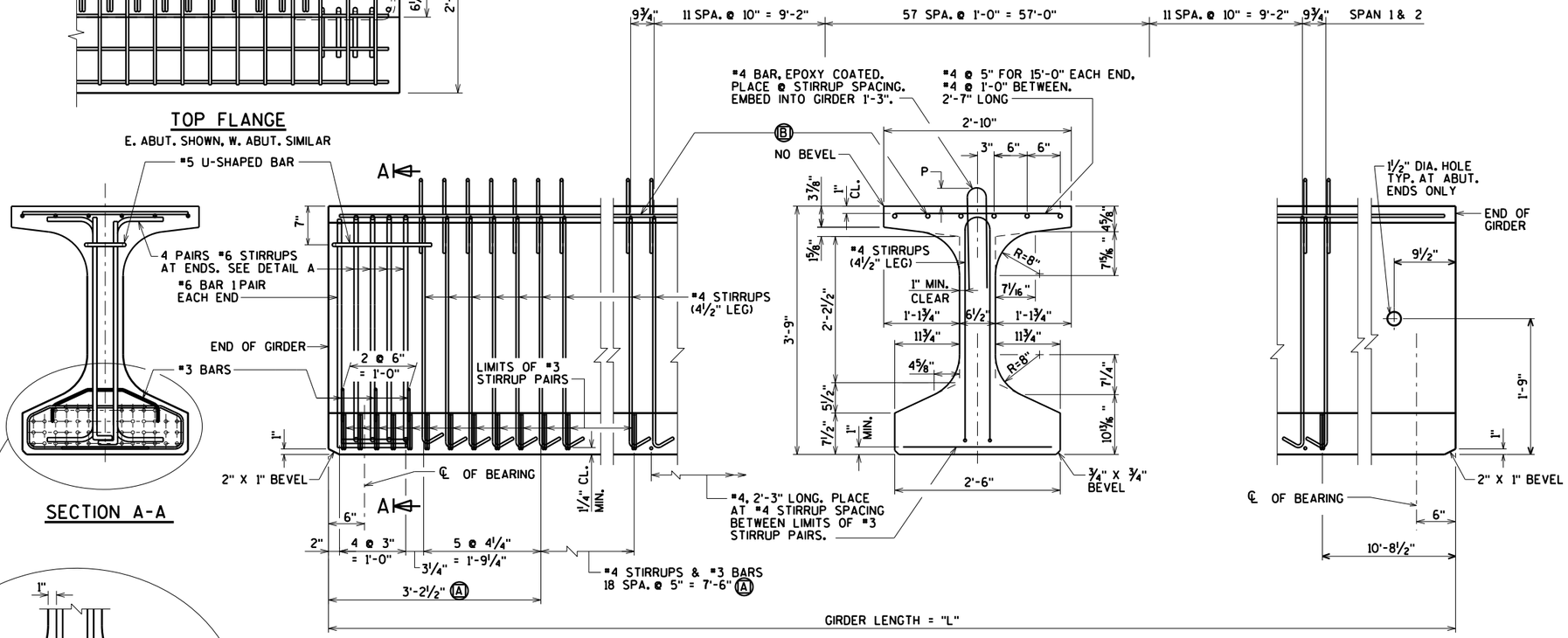
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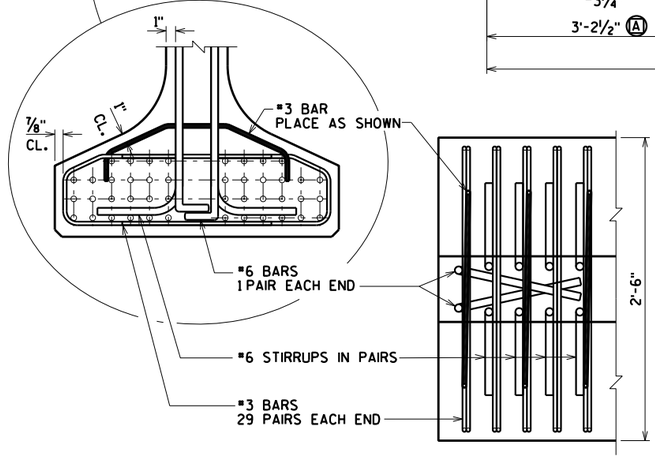


TOP FLANGE

E. ABUT. SHOWN, W. ABUT. SIMILAR



SECTION A-A



DETAIL A

BOTTOM FLANGE

SIDE VIEW & TYP. SECTION IN SPAN

(A) DETAIL TYP. AT EACH END

(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 2'-11"

GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, 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.

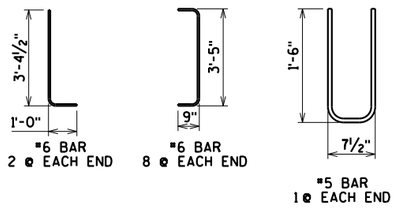
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

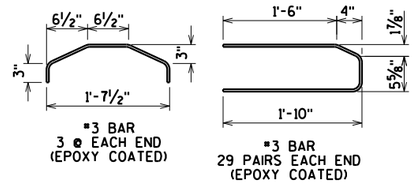
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

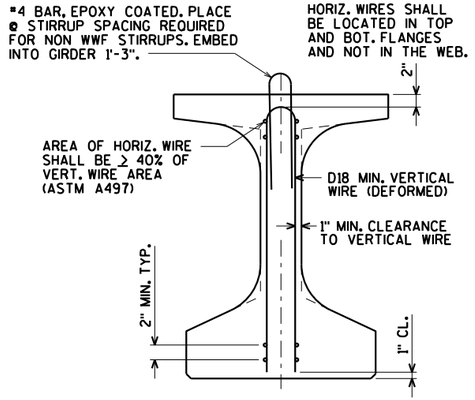
AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE 0.6"ϕ -7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM DETAILS" SHEET.







SECTION THRU GIRDER

SHOWING WELDED WIRE FABRIC (WWF) STIRRUPS ASTM A497 (FY = 70 KSI)

* 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 1/3 OF GIRDER	"P" MID 1/3 OF GIRDER	"P" END 1/3 OF GIRDER	DIA. OF STRAND (IN.)	DRAPED 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"
1 & 2	1 & 8	98'-4 1/2"	0.5	0.9	1.3	1.5	1.6	1.5	1.3	0.9	0.5	7,000	7"	6"	7"	0.6	30	5,600	40	13	16	4
1 & 2	2 - 7	98'-4 1/2"	0.6	1.1	1.6	1.8	1.9	1.8	1.6	1.1	0.6	7,000	7"	6"	7"	0.6	30	5,600	40	13	16	4

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STRUCTURES DESIGN SECTION

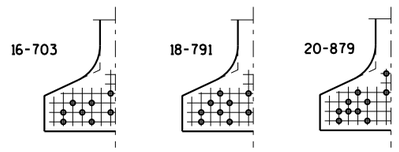
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45W" PRESTRESSED GIRDER DETAILS

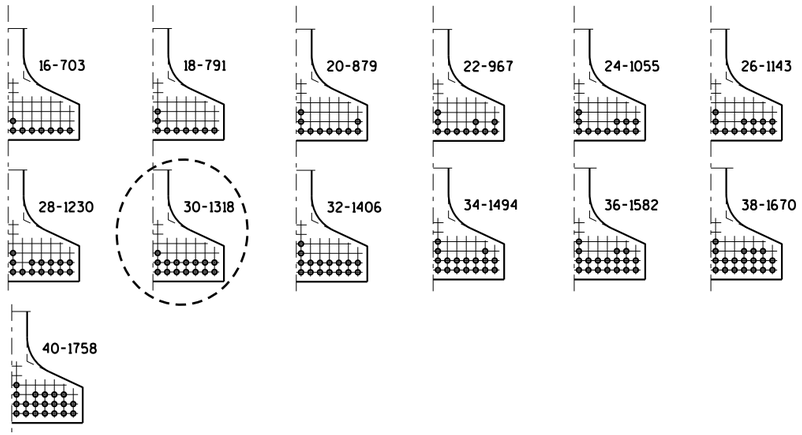
SHEET 20 OF 34
558

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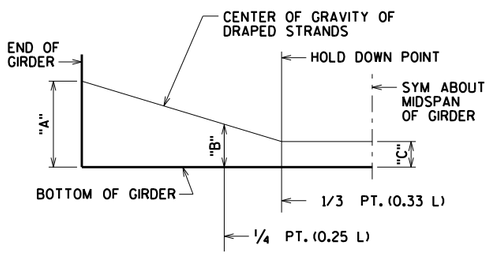
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"ϕ STRANDS



ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"ϕ STRANDS

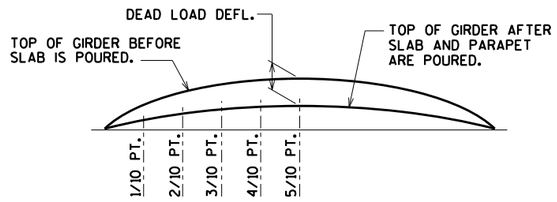


DRAPED STRAND PROFILE

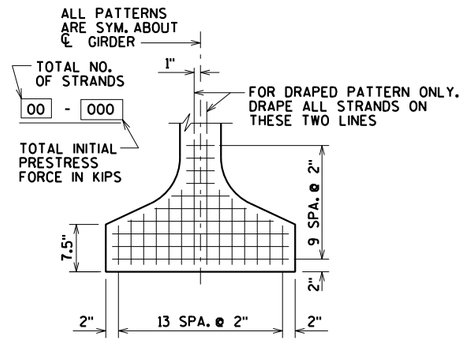
THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN

SPAN	CAMBER (IN.)
1	4.0
2	4.0

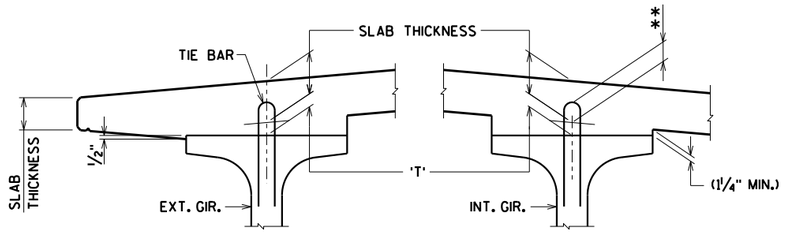
THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T'. USE ACTUAL GIRDER SHOTS. THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.



DEAD LOAD DEFLECTION DIAGRAM



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 2¾" WAS USED IN THE QUANTITY "HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES".

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STRUCTURE B-13-801

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45W" PRESTRESSED GIRDER DETAILS

SHEET 21 OF 34
559

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U:±41-0660.0X - IH-39 Dane Partners General Bridge Information±USH 12 over STH 73 B-13-801±BRIDGE±B-13-801 45W.dgn

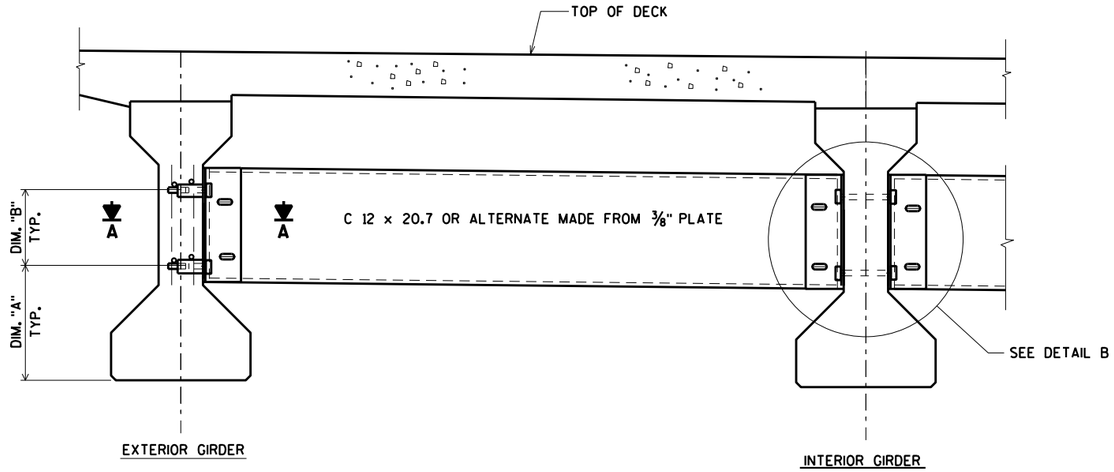
$PRFNAME$
U:\41-0660.0X - IH-39 Dane Partners General Bridge Information\USH 12 over STH 73 B-13-801\BRIDGE\

STATE PROJECT NUMBER

3070-00-73

TABLE

GIRDER HEIGHT	DIM. "A"	DIM. "B"	DIM. "L"	*DIM. "X"
45W"	1'-9⅛"	8⅞"	1'-0½"	2¾"



NOTES

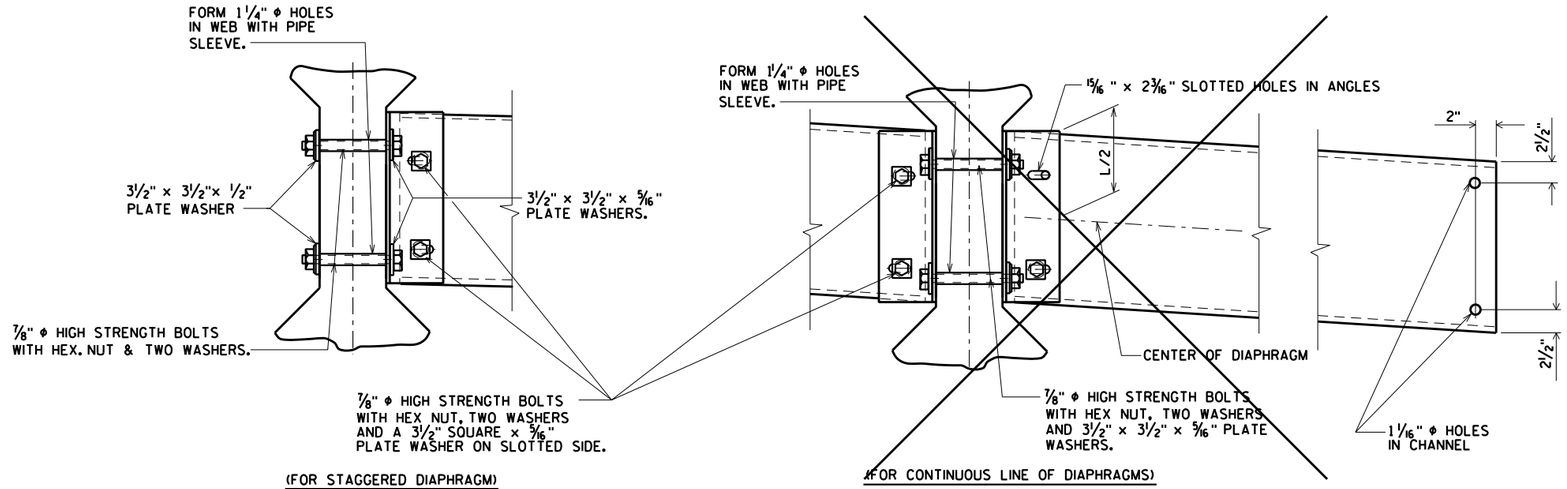
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-13-801", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

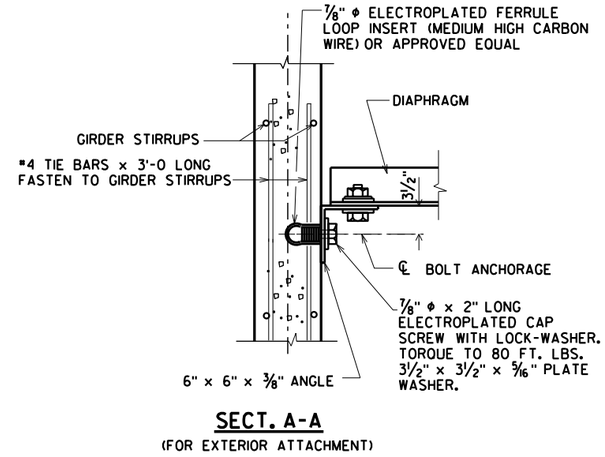
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

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.

PART TRANSVERSE SECTION AT DIAPHRAGM

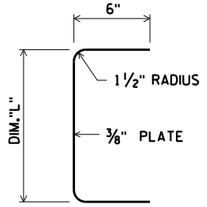


DETAIL B



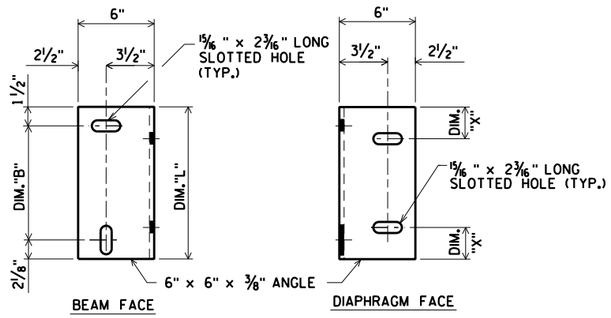
SECT. A-A

(FOR EXTERIOR ATTACHMENT)



SECTION THRU ALTERNATE DIAPHRAGM

*DIM. "X" = 2½" FOR ALTERNATE PLATE DIAPHRAGM



DIAPHRAGM SUPPORT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

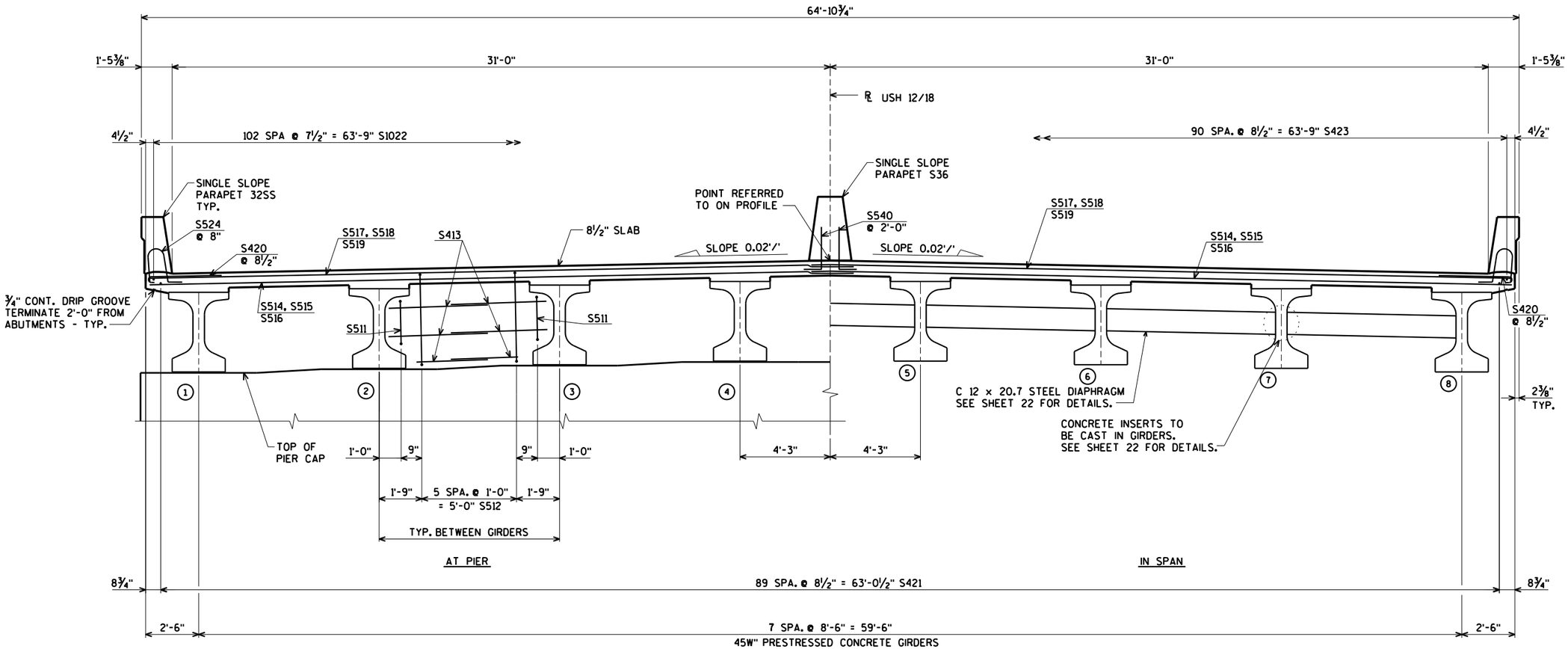
STRUCTURE B-13-801

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STEEL DIAPHRAGM DETAILS

SHEET 22 OF 34
560

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TYPICAL CROSS SECTION THRU DECK
(LOOKING EAST)

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DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

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SUPERSTRUCTURE

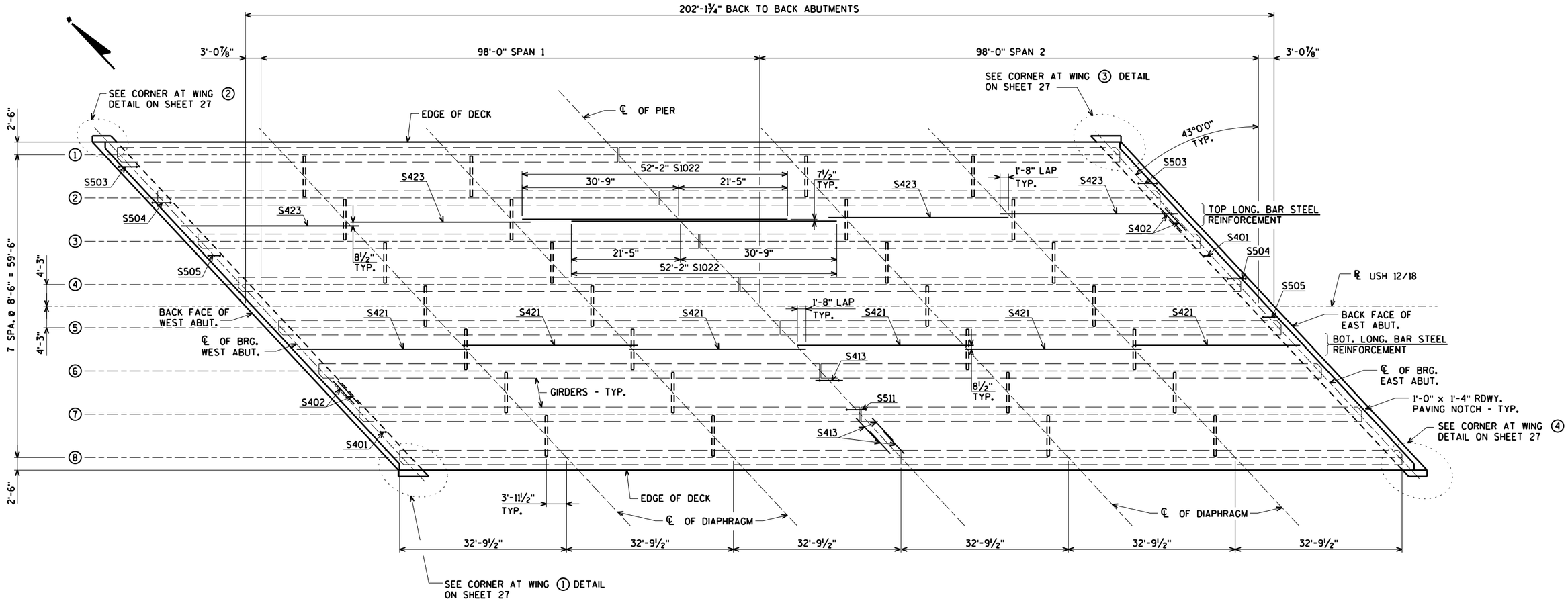
SHEET 23 OF 34
561

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TOP OF DECK ELEVATIONS

LOCATION	℄ BEARING W. ABUT.	0.1 PT.	0.2 PT.	0.3 PT.	0.4 PT.	0.5 PT.	0.6 PT.	0.7 PT.	0.8 PT.	0.9 PT.	℄ PIER	0.1 PT.	0.2 PT.	0.3 PT.	0.4 PT.	0.5 PT.	0.6 PT.	0.7 PT.	0.8 PT.	0.9 PT.	℄ BEARING E. ABUT.
NORTH EDGE OF DECK	901.53	901.61	901.69	901.77	901.85	901.92	901.99	902.06	902.13	902.20	902.26	902.32	902.38	902.44	902.49	902.55	902.60	902.65	902.69	902.74	902.78
GIRDER 1	901.57	901.65	901.73	901.81	901.88	901.96	902.03	902.10	902.16	902.23	902.29	902.35	902.41	902.47	902.52	902.58	902.63	902.68	902.72	902.77	902.81
GIRDER 2	901.80	901.88	901.96	902.04	902.11	902.18	902.25	902.32	902.39	902.45	902.51	902.57	902.63	902.68	902.74	902.79	902.84	902.88	902.93	902.97	903.01
GIRDER 3	902.04	902.12	902.19	902.27	902.34	902.41	902.48	902.55	902.61	902.67	902.73	902.79	902.84	902.90	902.95	903.00	903.05	903.09	903.13	903.17	903.21
GIRDER 4	902.27	902.35	902.42	902.50	902.57	902.64	902.70	902.77	902.83	902.89	902.95	903.00	903.06	903.11	903.16	903.21	903.25	903.30	903.34	903.38	903.41
GIRDER 5	902.33	902.41	902.48	902.55	902.62	902.69	902.75	902.82	902.88	902.94	902.99	903.05	903.10	903.15	903.20	903.24	903.29	903.33	903.37	903.41	903.44
GIRDER 6	902.23	902.30	902.37	902.44	902.51	902.57	902.64	902.70	902.76	902.81	902.87	902.92	902.97	903.02	903.07	903.11	903.15	903.19	903.23	903.26	903.30
GIRDER 7	902.12	902.19	902.26	902.32	902.39	902.45	902.52	902.57	902.63	902.69	902.74	902.79	902.84	902.89	902.93	902.97	903.01	903.05	903.09	903.12	903.15
GIRDER 8	902.00	902.07	902.14	902.21	902.27	902.33	902.39	902.45	902.51	902.56	902.61	902.66	902.71	902.75	902.80	902.84	902.87	902.91	902.95	902.98	903.01
SOUTH EDGE OF DECK	902.99	902.06	902.12	902.19	902.25	902.32	902.38	902.43	902.49	902.54	902.59	902.64	902.69	902.73	902.78	902.82	902.85	902.89	902.92	902.96	902.99



PLAN

NO.	DATE	REVISION	BY

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STRUCTURE B-13-801

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SUPERSTRUCTURE PLAN

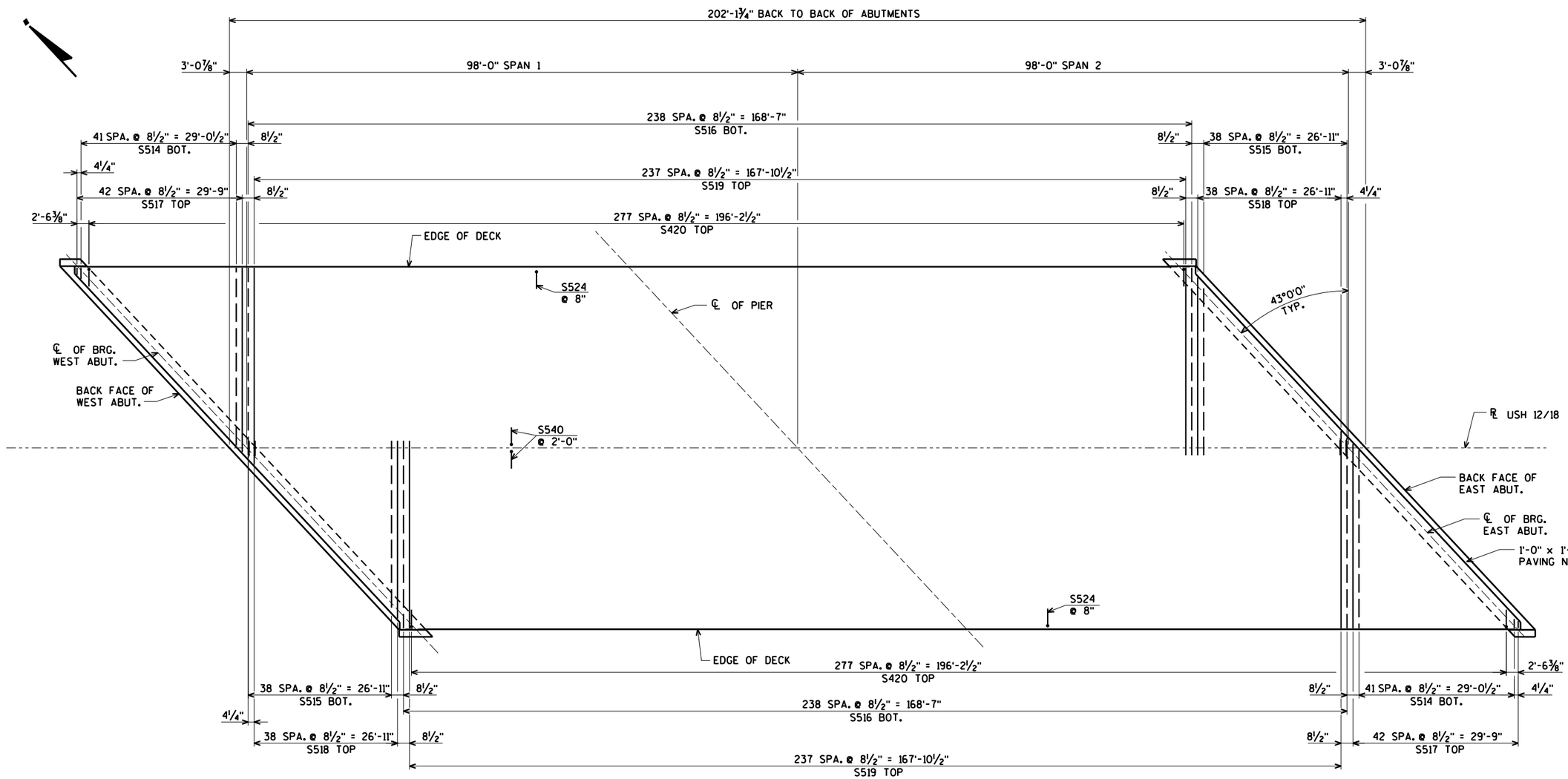
SHEET 24 OF 34
562

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STATE PROJECT NUMBER

3070-00-73



TRANSVERSE BAR STEEL LAYOUT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

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SUPERSTRUCTURE TRANSVERSE STEEL LAYOUT

SHEET 25 OF 34
563

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8/12/2014

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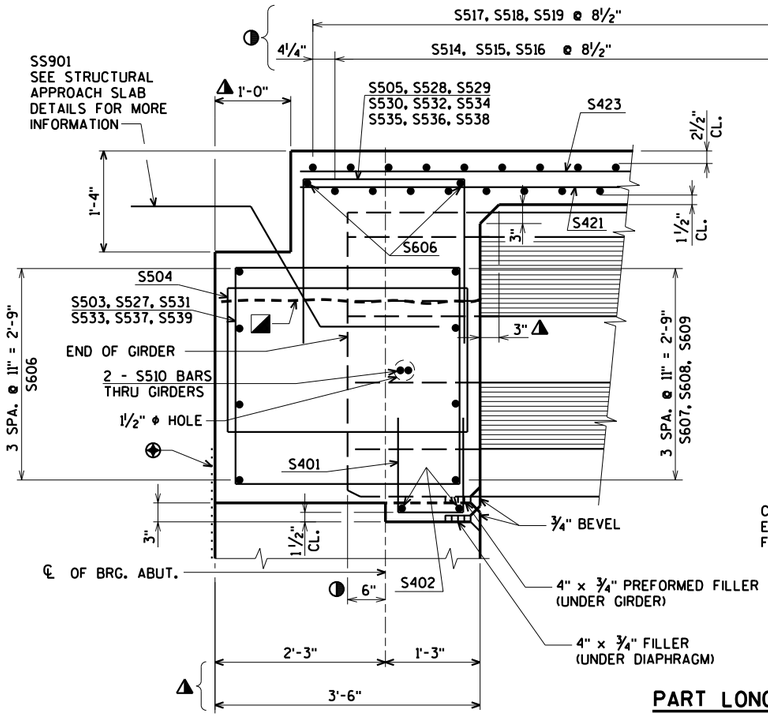
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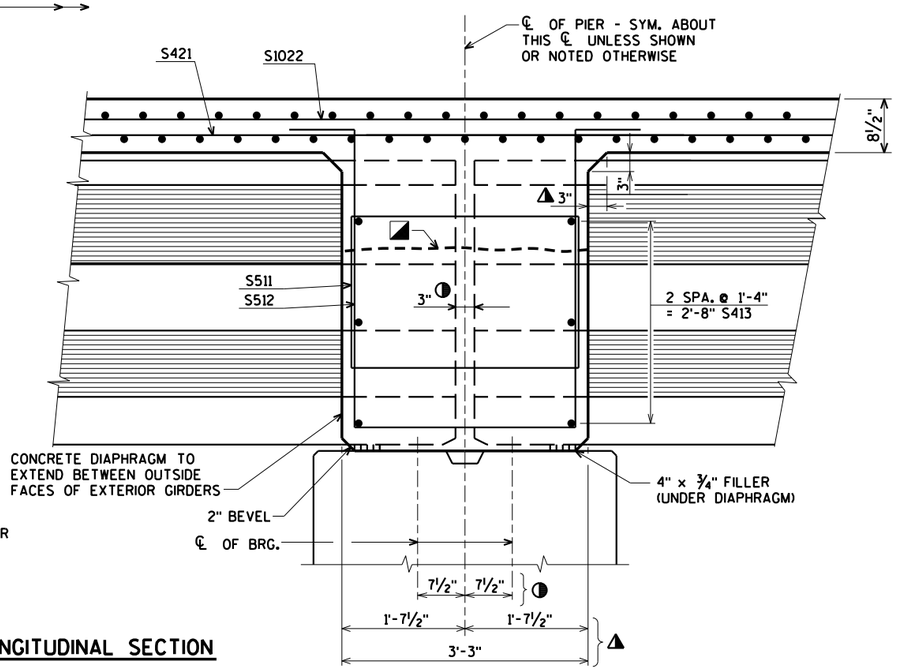
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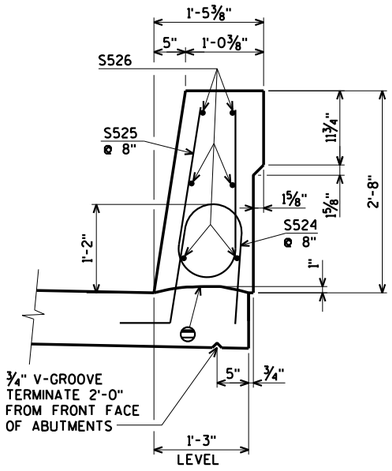
STATE PROJECT NUMBER

3070-00-73

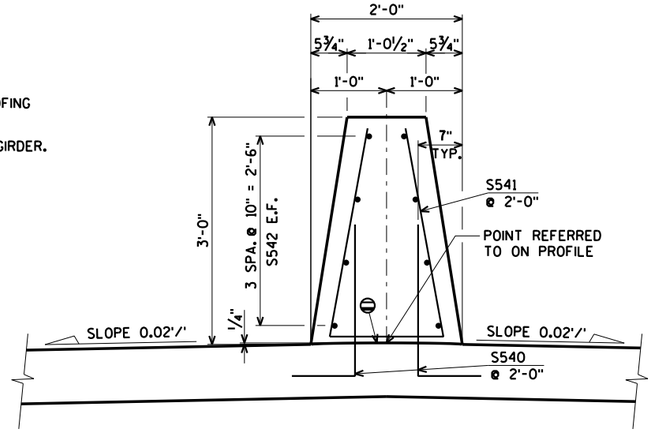


PART LONGITUDINAL SECTION

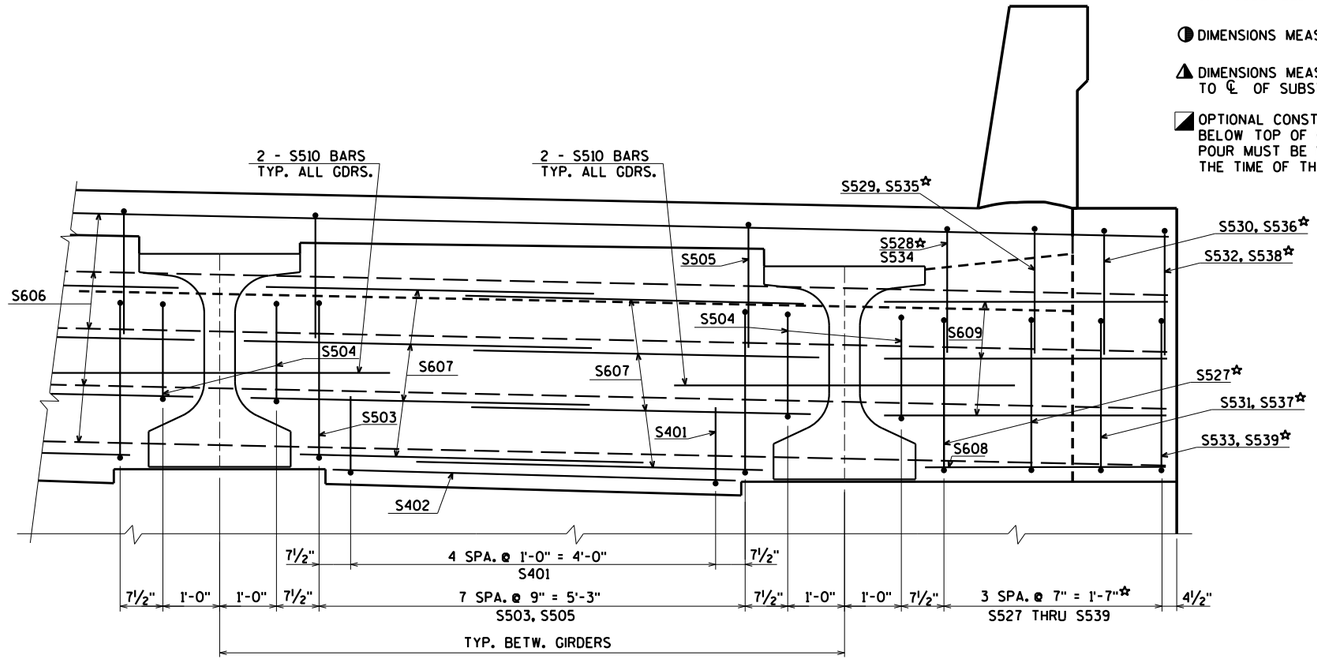




SECTION THRU PARAPET ON BRIDGE



SECTION THRU MEDIAN ON BRIDGE



PART TRANSVERSE SECTION AT ABUTMENT DIAPHRAGM

- 18" RUBBERIZED MEMBRANE WATERPROOFING
- ◑ DIMENSIONS MEASURED ALONG ℄ OF GIRDER.
- ◭ DIMENSIONS MEASURED NORMAL TO ℄ OF SUBSTRUCTURE UNIT.
- ◪ OPTIONAL CONSTRUCTION JOINT 1'-2" BELOW TOP OF GIRDER. IF USED, DECK POUR MUST BE WITHIN 2 WEEKS FROM THE TIME OF THE DIAPHRAGM POUR.

☆ SEE SUPERSTRUCTURE CORNER DETAILS ON SHEET 27

⊖ CONST. JOINT - STRIKE OFF AS SHOWN.

E.F. DENOTES EACH FACE

* PRECAST BEARING BLOCKS AND BARS NOT REQUIRED IF PRECAST PIER OPTION IS NOT SELECTED.

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STRUCTURE B-13-801

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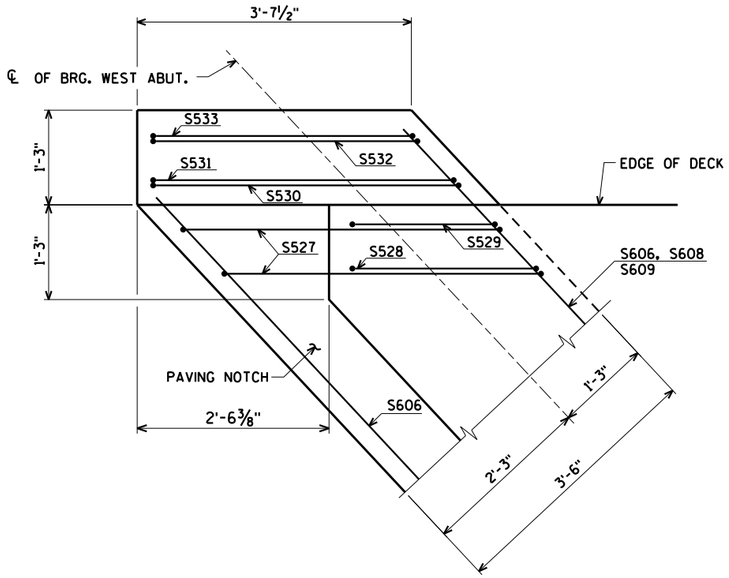
SUPERSTRUCTURE DETAILS

SHEET 26 OF 34
564

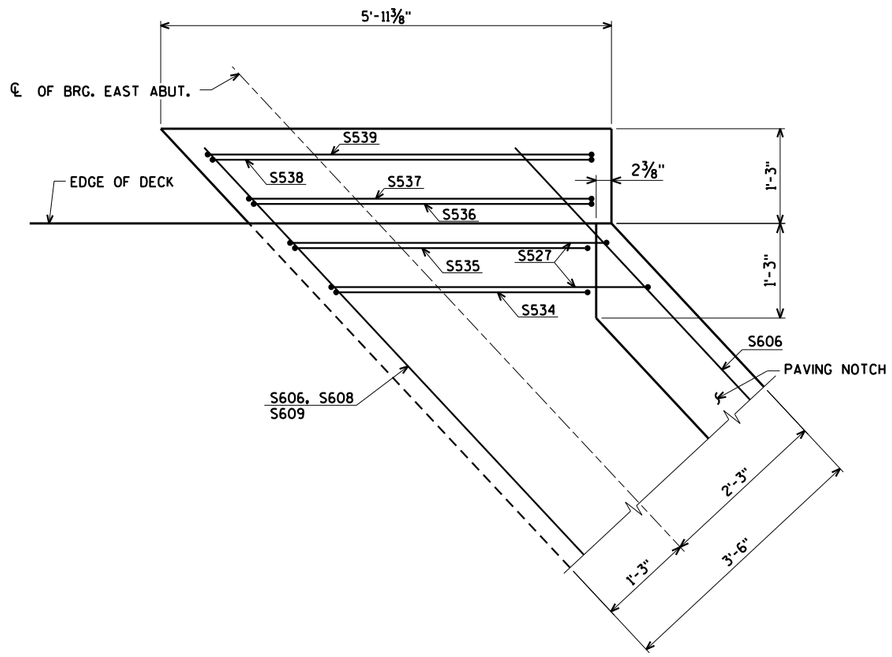
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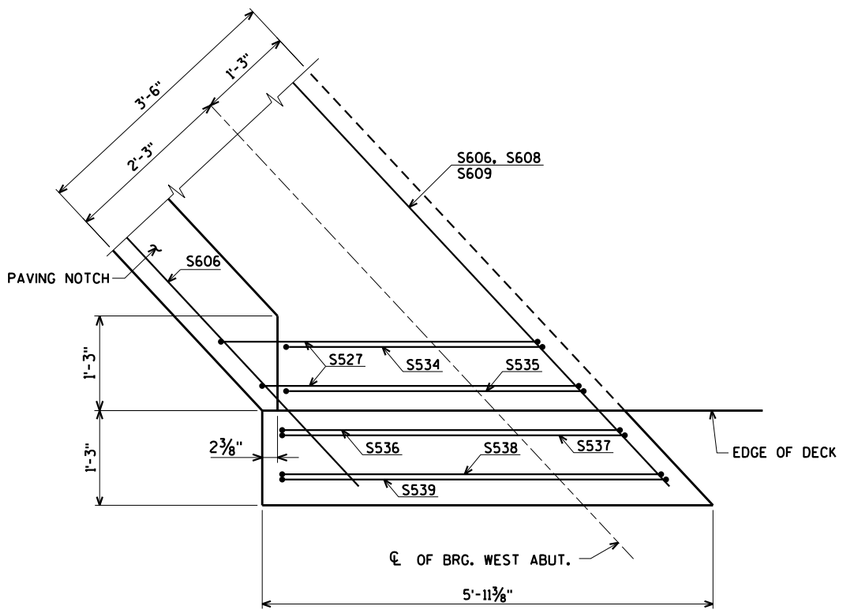
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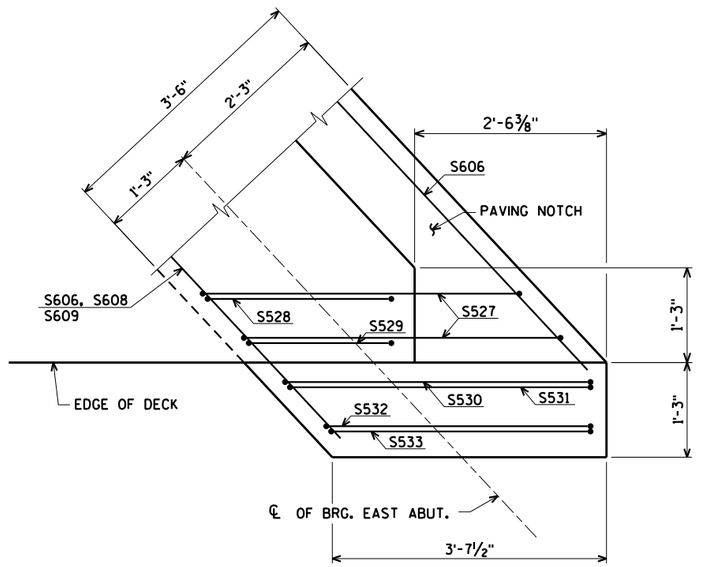
CORNER AT WING 2 DETAIL



CORNER AT WING 3 DETAIL



CORNER AT WING 1 DETAIL



CORNER AT WING 4 DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
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STRUCTURE B-13-801

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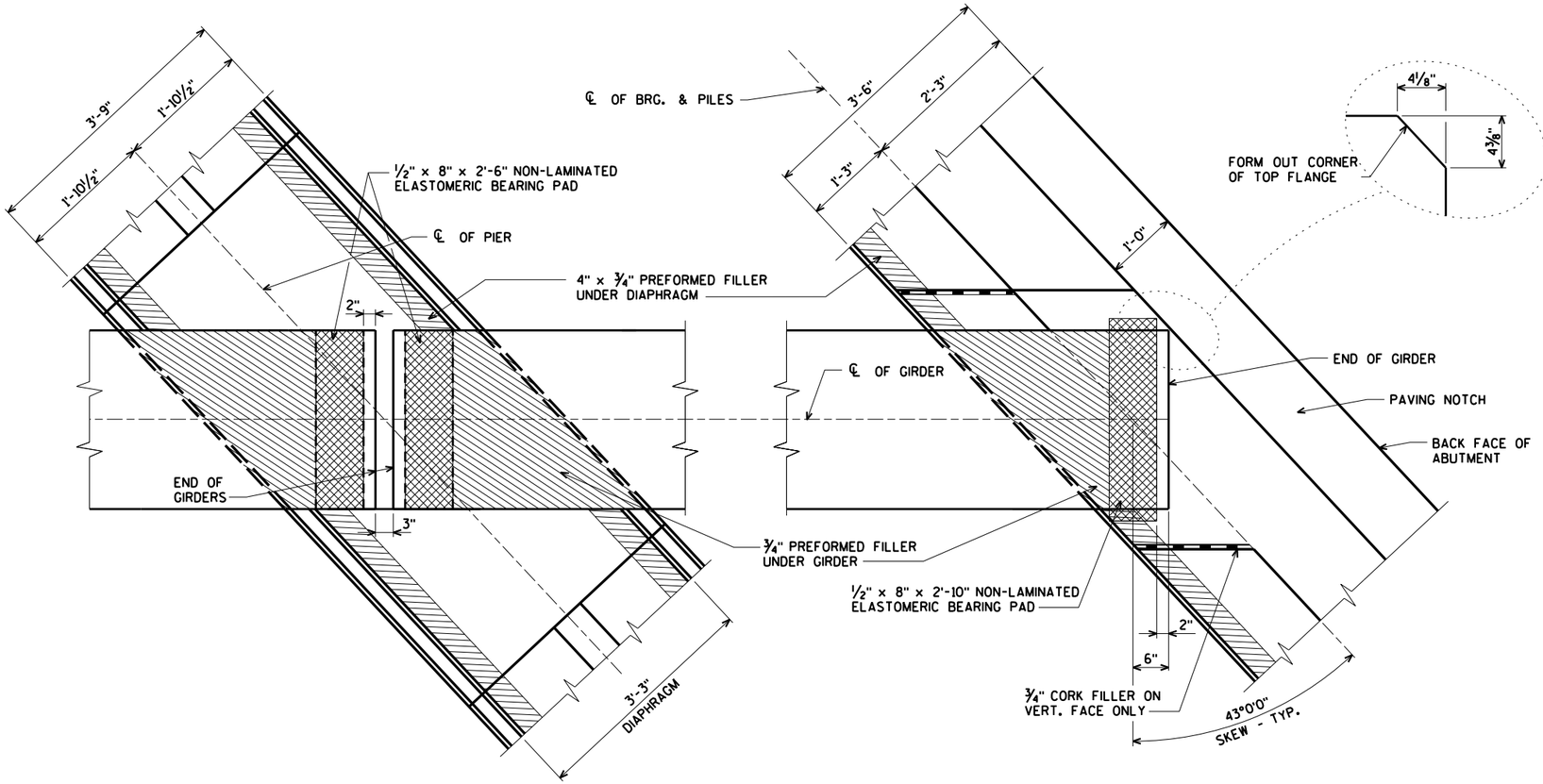
SUPERSTRUCTURE
CORNER DETAILS

SHEET 27 OF 34
565

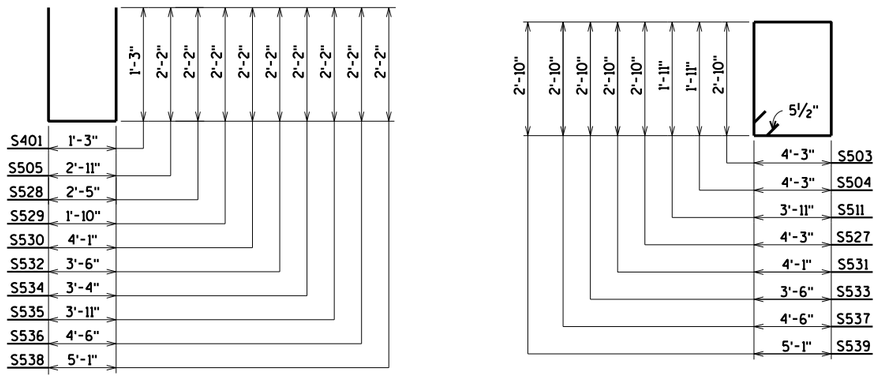
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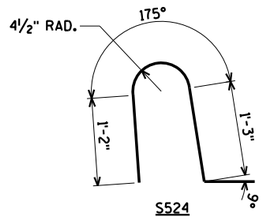
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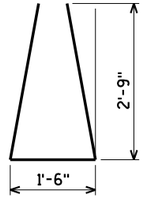
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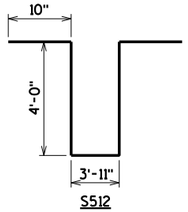


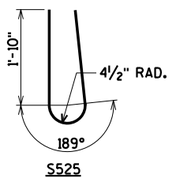
BEARING PAD DETAILS

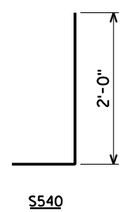


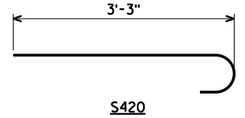




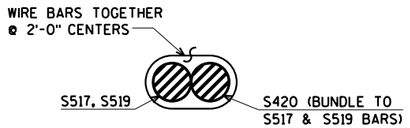








BUNDLING DETAIL



BILL OF BARS (CAST-IN-PLACE PIER OPTION)

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED BAR	SERIES	104,270# COATED LOCATION
S401	X	70	3-7	X			DIAPH. @ ABUT. VERT. @ NOTCH
S402	X	28	6-0				DIAPH. @ ABUT. HORIZ. @ NOTCH
S503	X	112	14-10	X			DIAPH. @ ABUT. VERT.
S504	X	32	13-0	X			DIAPH. @ ABUT. VERT.
S505	X	112	7-1	X			DIAPH. @ ABUT. VERT.
S606	X	24	47-3				DIAPH. @ ABUT. HORIZ.
S607	X	112	6-9				DIAPH. @ ABUT. HORIZ. BETW. GDRS.
S608	X	4	2-11				DIAPH. @ ABUT. HORIZ. @ EXT. GDRS.
S609	X	12	4-3				DIAPH. @ ABUT. HORIZ. @ EXT. GDRS.
S510	X	32	6-0				DIAPH. @ ABUT. HORIZ. THRU GDRS.
S511	X	14	12-4	X			DIAPH. @ PIER VERT.
S512	X	42	13-3	X			DIAPH. @ PIER. VERT.
S413	X	84	6-0				DIAPH. @ PIER HORIZ.
S514	X	84	17-2			⊗	SLAB TRANS. BOT.
S515	X	78	17-2			⊗	SLAB TRANS. BOT.
S516	X	478	33-5				SLAB TRANS. BOT.
S517	X	86	17-2		X	⊗	SLAB TRANS. TOP
S518	X	78	17-6			⊗	SLAB TRANS. TOP
S519	X	476	33-5		X		SLAB TRANS. TOP
S420	X	556	3-9	X	X		SLAB TRANS. TOP @ EDGES
S421	X	540	34-7				SLAB LONG. BOT.
S1022	X	103	52-2				SLAB LONG. TOP @ PIER
S423	X	364	36-0				SLAB LONG. TOP
S524	X	598	4-5	X			SLAB @ PARAPET
S525	X	598	5-0	X			PARAPET VERT.
S526	X	60	41-10				PARAPET HORIZ.
S527	X	8	14-10	X			DIAPH. @ ABUT. VERT. CORNER
S528	X	2	6-6	X			DIAPH. @ ABUT. VERT. CORNERS 2 & 4
S529	X	2	5-11	X			DIAPH. @ ABUT. VERT. CORNERS 2 & 4
S530	X	2	8-3	X			DIAPH. @ ABUT. VERT. CORNERS 2 & 4
S531	X	2	14-6	X			DIAPH. @ ABUT. VERT. CORNERS 2 & 4
S532	X	2	7-8	X			DIAPH. @ ABUT. VERT. CORNERS 2 & 4
S533	X	2	13-4	X			DIAPH. @ ABUT. VERT. CORNERS 2 & 4
S534	X	2	7-6	X			DIAPH. @ ABUT. VERT. CORNERS 1 & 3
S535	X	2	8-1	X			DIAPH. @ ABUT. VERT. CORNERS 1 & 3
S536	X	2	8-8	X			DIAPH. @ ABUT. VERT. CORNERS 1 & 3
S537	X	2	15-4	X			DIAPH. @ ABUT. VERT. CORNERS 1 & 3
S538	X	2	9-3	X			DIAPH. @ ABUT. VERT. CORNERS 1 & 3
S539	X	2	16-6	X			DIAPH. @ ABUT. VERT. CORNERS 1 & 3
S540	X	202	2-9	X			SLAB @ MEDIAN PARAPET
S541	X	101	6-10	X			MEDIAN PARPAET VERT.
S542	X	40	41-10				MEDIAN PARAPET HORIZ.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

⊗ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO REQ'D.	LENGTH
S514	2 SERIES OF 42	1'-7" TO 32'-9"
S515	2 SERIES OF 39	2'-9" TO 31'-7"
S517	2 SERIES OF 43	1'-3" TO 33'-1"
S518	2 SERIES OF 39	3'-1" TO 31'-11"

BUNDLE AND TAG EACH SERIES SEPARATELY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

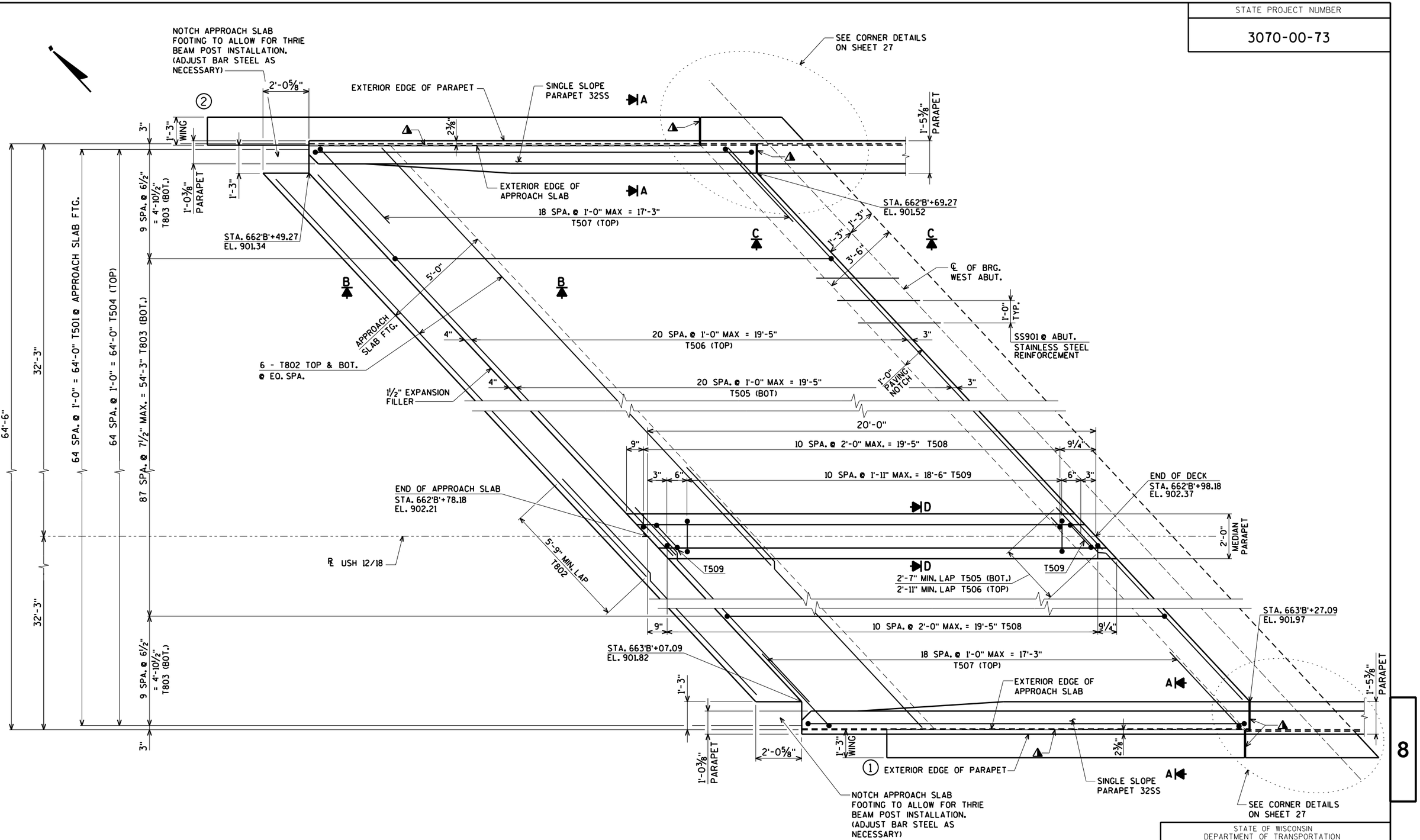
SUPERSTRUCTURE DETAILS

SHEET 28 OF 34
566

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE PROJECT NUMBER

3070-00-73



8

8

$PRFNAME$
U:±41-0660.0X - IH-39 Dane Partners General Bridge Information±_USH 12 over STH 73 B-13-801±BRIDGE±B-13-801 APP SLAB.dgn

FOR SECTIONS A, B, C & D SEE SHEET 31

▲ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" 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.

WEST APPROACH SLAB PLAN

WORK THIS SHEET WITH SHEET 31

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

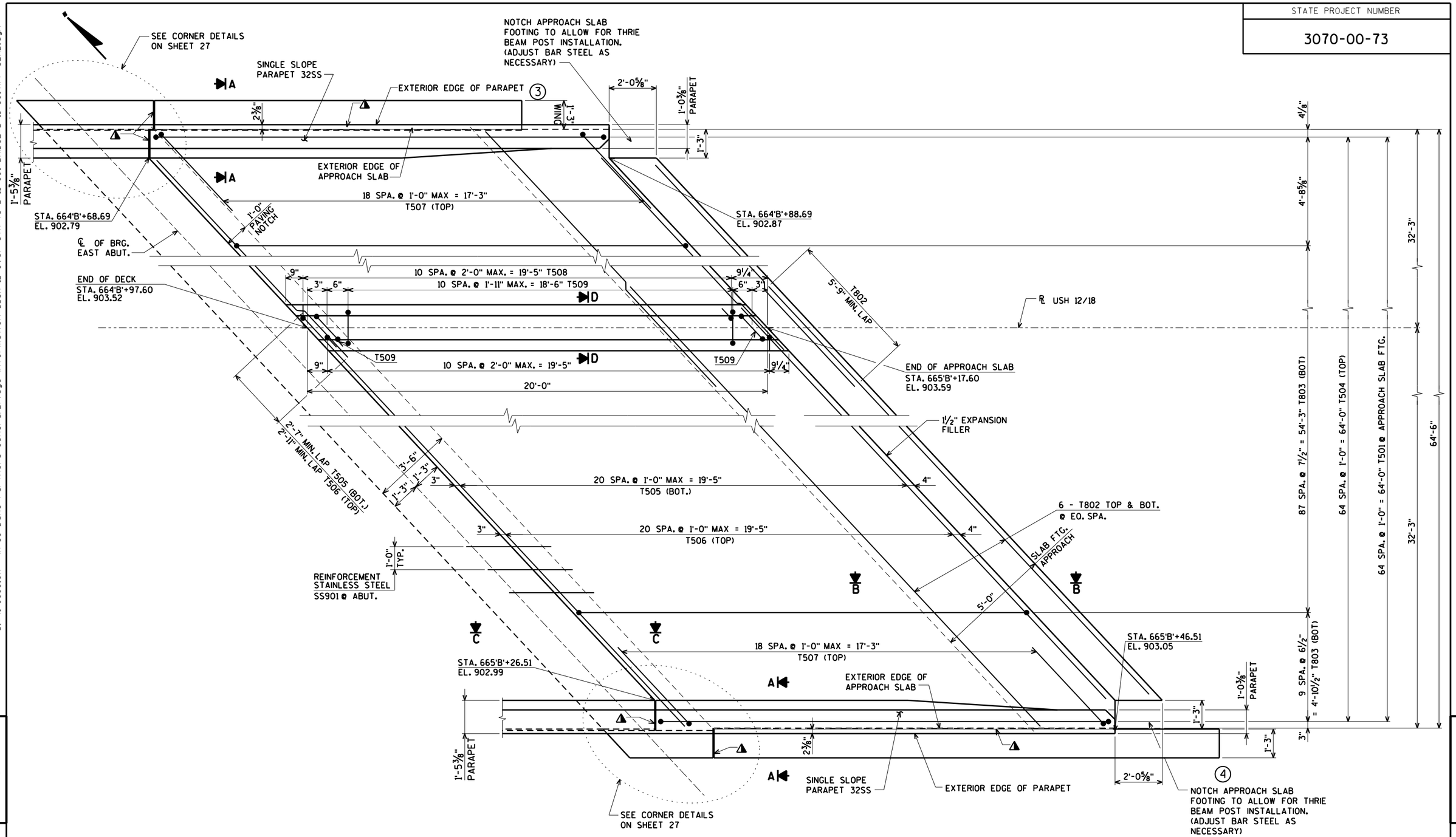
DRAWN BY JCK | PLANS CK'D. CBM

WEST STRUCTURAL APPROACH SLAB

SHEET 29 OF 34
567

10/23/2014

PENTABLE:BReau_shd_util.tbl



⚠ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" 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.

EAST APPROACH SLAB PLAN

FOR SECTIONS A, B, C, & D
SEE SHEET 31.

WORK THIS SHEET WITH SHEET 31.

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

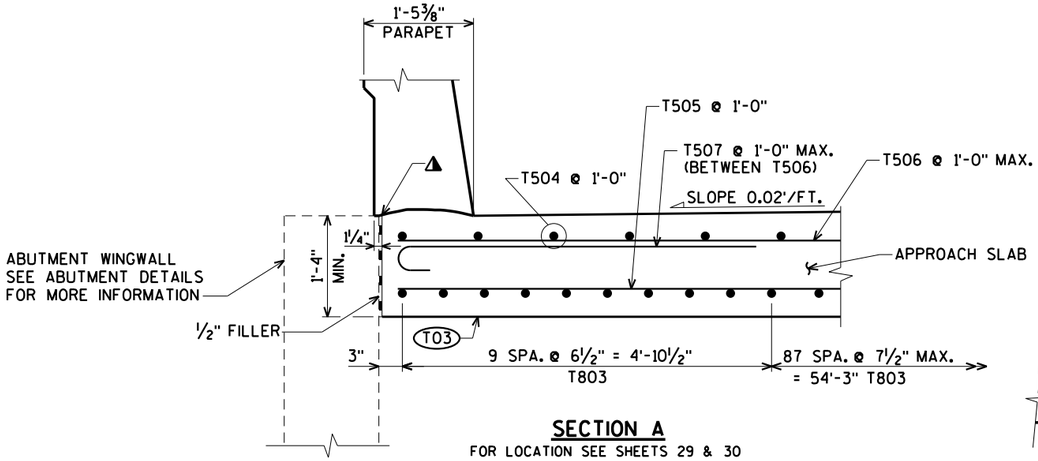
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

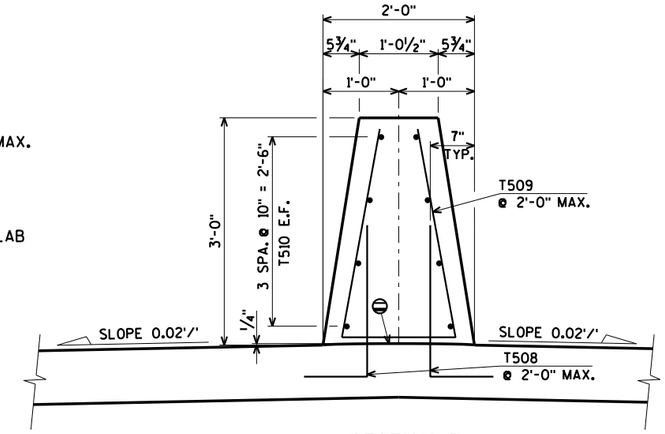
DRAWN BY	PLANS CK'D.
JCK	CBM

EAST STRUCTURAL APPROACH SLAB

$PRFNAME$
U:±41-0660.0X - IH-39 Dane Partners General Bridge Information±USH 12 over STH 73 B-13-801±BRIDGE±B-13-801 APP SLAB.dgn
10/23/2014
PENTABLE:BReau_shd_util.tbl



SECTION A
FOR LOCATION SEE SHEETS 29 & 30



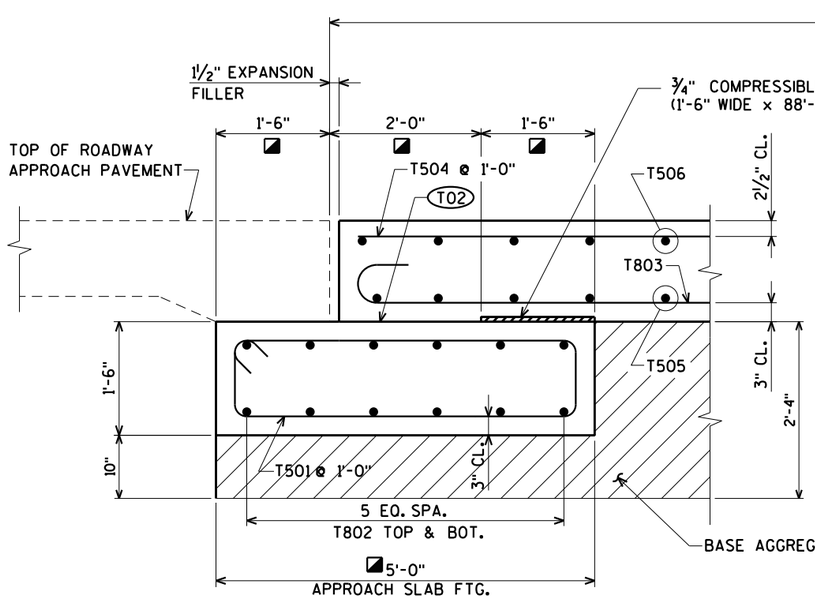
SECTION D
FOR LOCATION SEE SHEETS 29 & 30

BILL OF BARS

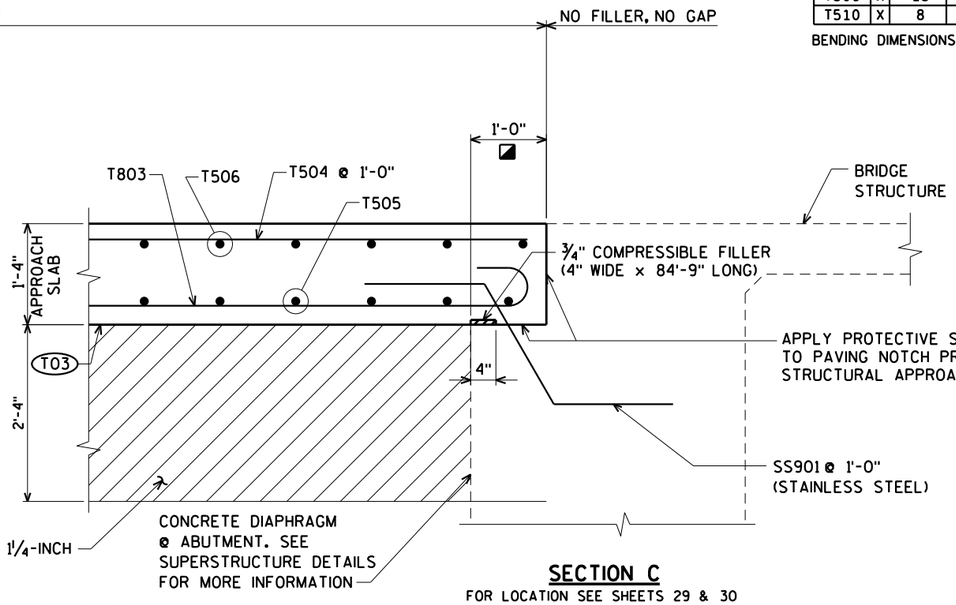
BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	1.110" STAINLESS STEEL (PER APPROACH SLAB)
							LOCATION
SS901		65	5-0	X			CONC. ABUT. DIAPH. TO APPROACH SLAB

BAR. NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BUNDLED	BAR SERIES	15,620" COATED (PER APPROACH SLAB)
							LOCATION
T501	X	65	14-8	X			APPROACH SLAB FTG. - STIRRUP
T802	X	24	46-8				APPROACH SLAB FTG. - TRANS.
T803	X	106	20-9	X			APPROACH SLAB - LONG. - BOT.
T504	X	65	19-6				APPROACH SLAB - LONG - TOP
T505	X	42	45-1				APPROACH SLAB - TRANS. - BOT.
T506	X	42	45-3				APPROACH SLAB - TRANS. - TOP
T507	X	38	4-1	X			APPROACH SLAB - TRANS. - TOP
T508	X	22	2-9				APPROACH SLAB - MEDIAN PARAPET - VERT.
T509	X	13	6-10	X			MEDIAN PARAPET - VERT.
T510	X	8	19-6				MEDIAN PARAPET - HORIZ.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



SECTION B
FOR LOCATION SEE SHEETS 29 & 30



SECTION C
FOR LOCATION SEE SHEETS 29 & 30

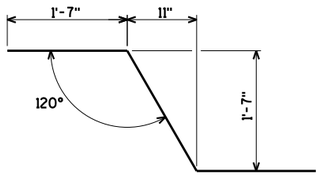
SECTION THRU APPROACH SLAB

◪ MEASURED NORMAL TO ABUTMENT

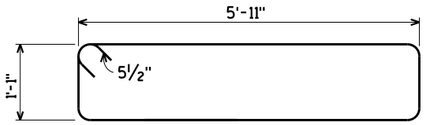
- ⊖ CONST. JOINT - STRIKE OFF AS SHOWN.
  E.F. DENOTES EACH FACE
- ▲ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1.8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF FOOTING.
- (T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE.

POLYETHYLENE SHEETS ARE INCLUDED WITH "CONCRETE MASONRY BRIDGES".

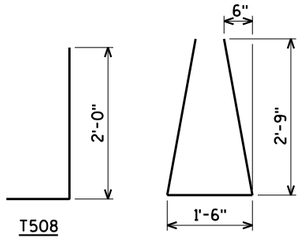
ALL STRUCTURAL APPROACH SLAB CONCRETE PAID FOR UNDER "CONCRETE MASONRY BRIDGES".



SS901

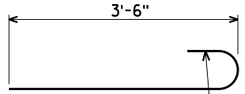


T501

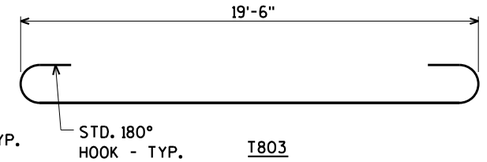


T508

T509



T507



T803

WORK THIS SHEET WITH SHEETS 29 THRU 30

ORIGINAL PLANS PREPARED BY
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Eau Claire, WI 54701
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

STRUCTURAL APPROACH SLAB DETAILS

SHEET 31 OF 34
569

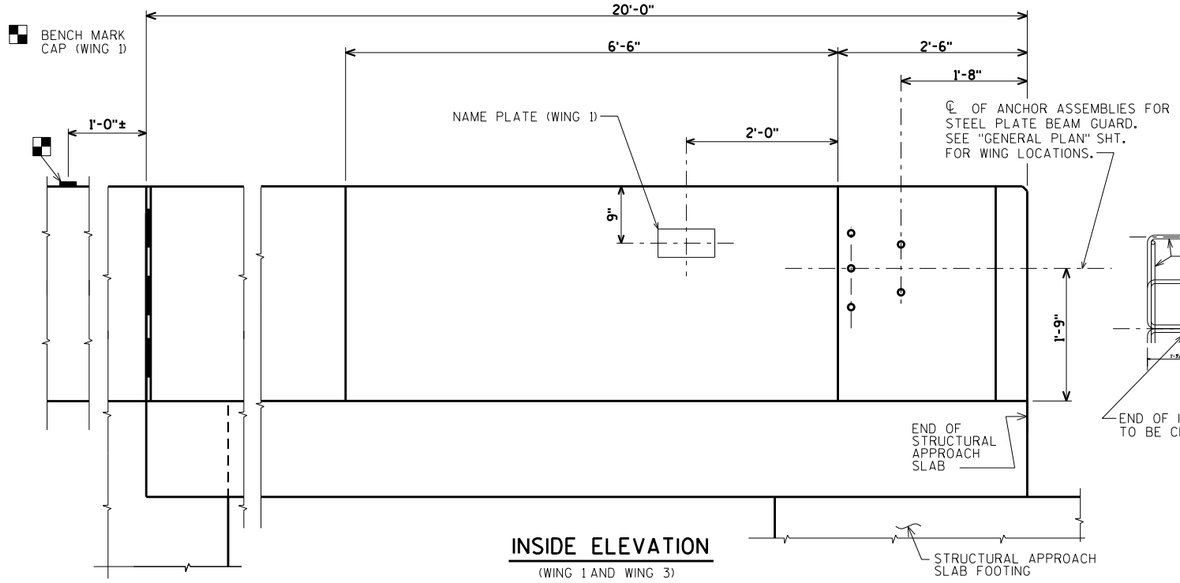
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$PRFNAME$
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STATE PROJECT NUMBER

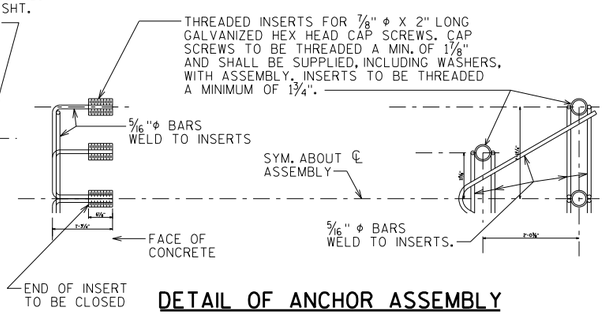
3070-00-73

BENCH MARK
CAP (WING 1)



INSIDE ELEVATION

(WING 1 AND WING 3)



DETAIL OF ANCHOR ASSEMBLY

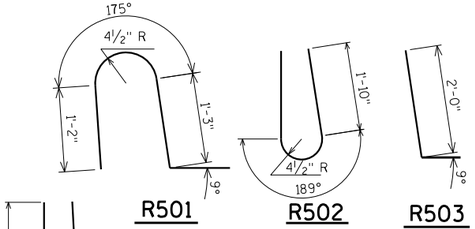
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

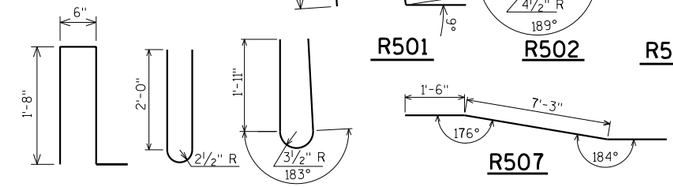
ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

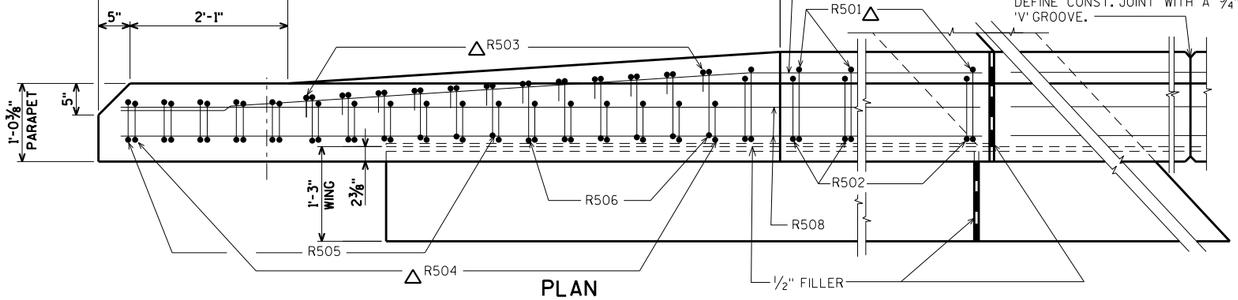
BILL OF BARS

	BAR. NO.	COATED BAR	WING 1	WING 3	LENGTH	BENT BAR	BUNDLED BAR SERIES	480# COATED WEST APPROACH SLAB 480# COATED EAST APPROACH SLAB LOCATION
▽	R501	X	17	17	4-5	X		PARAPET VERT.
	R502	X	17	17	5-0	X		PARAPET VERT.
▽	R503	X	12	12	2-9	X		PARAPET VERT.
▽	R504	X	17	17	4-4	X		PARAPET VERT.
	R505	X	11	11	4-9	X		PARAPET VERT.
	R506	X	6	6	4-10	X		PARAPET VERT.
	R507	X	1	1	19-4	X		PARAPET HORIZ.
	R508	X	5	5	19-3			PARAPET HORIZ.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



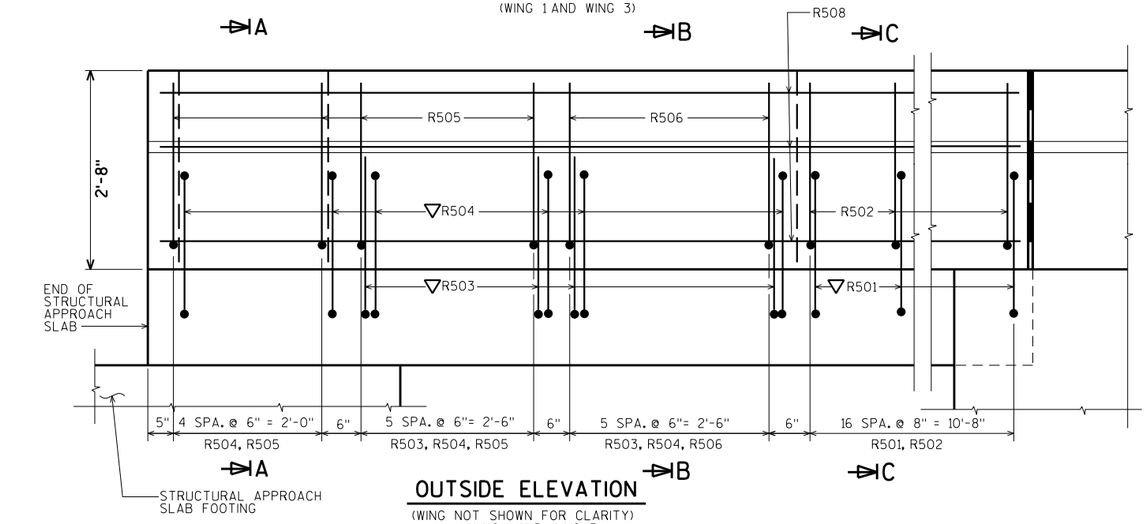




OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A ¾" - 'V' GROOVE.

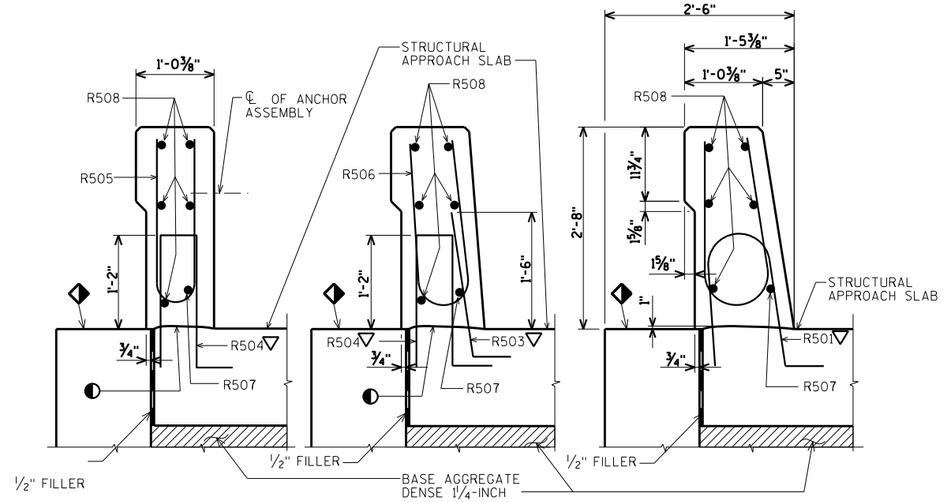
PLAN

(WING 1 AND WING 3)



OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)
(WING 1 AND WING 3)



SECTION A

SECTION B

SECTION C

◆ SLOPE AWAY FROM PARAPET FOR DRAINAGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

▽ R501, R503, AND R504 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

SINGLE SLOPE PARAPET 32SS WINGS 1 AND 3

SHEET 32 OF 34
570

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8

8

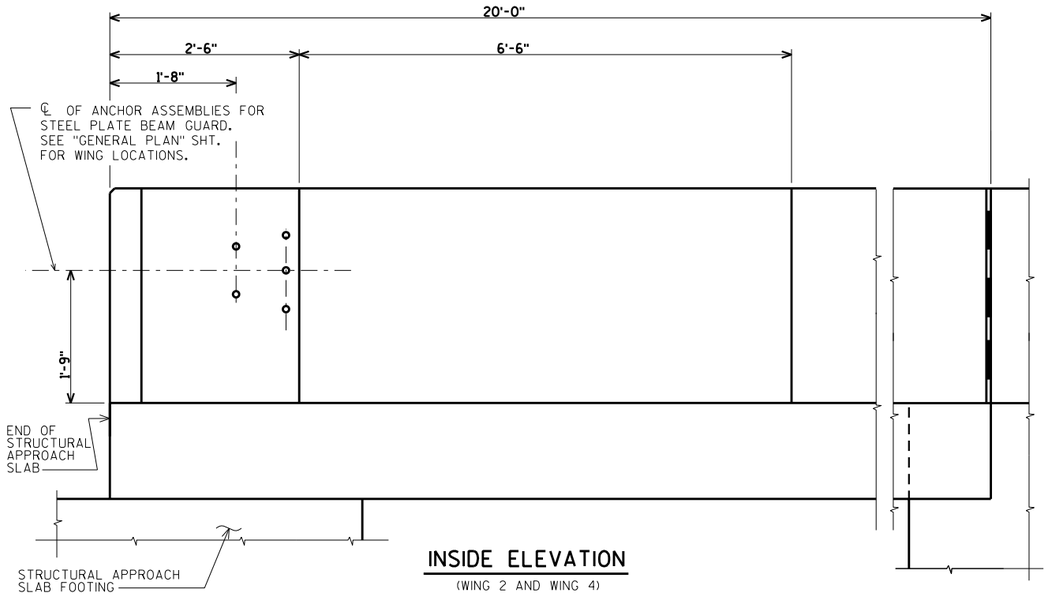
8/21/2014

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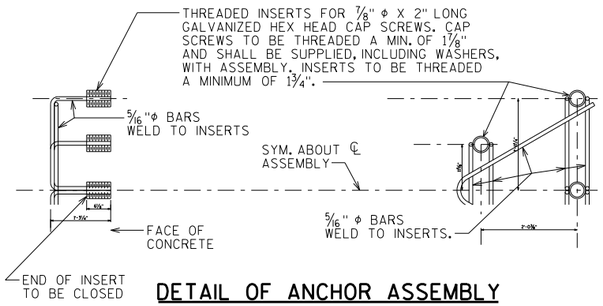
STATE PROJECT NUMBER

3070-00-73



INSIDE ELEVATION

(WING 2 AND WING 4)



DETAIL OF ANCHOR ASSEMBLY

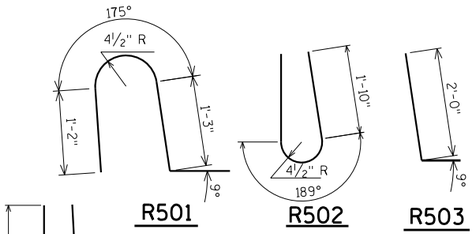
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

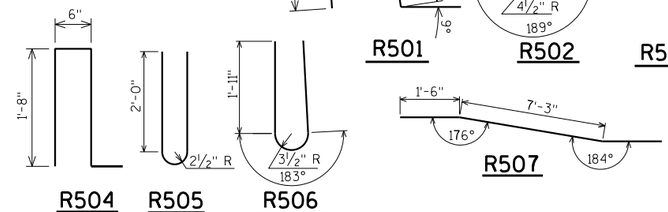
ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

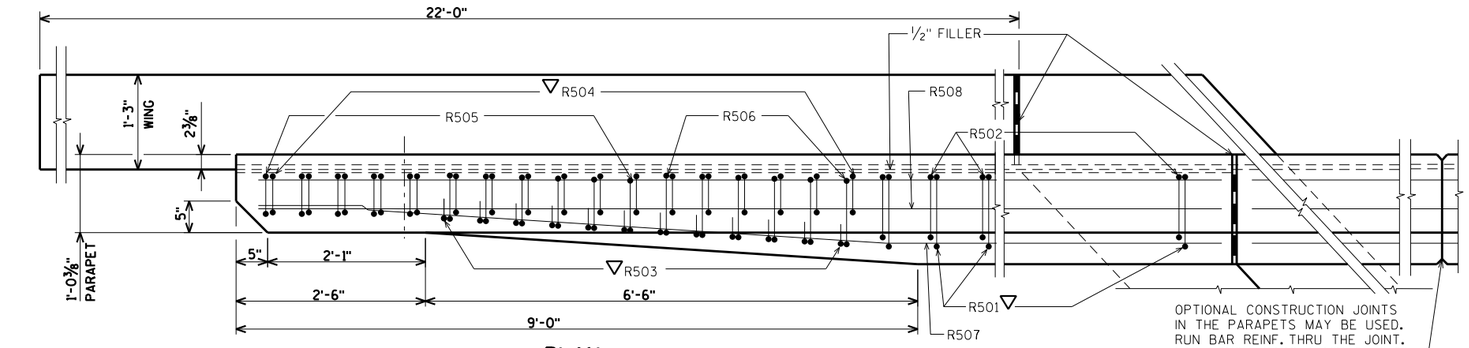
BILL OF BARS

	BAR. NO.	COATED BAR	WING 2	WING 4	LENGTH	BENT BAR	BUNDLED BAR	SERIES	480# COATED WEST APPROACH SLAB 480# COATED EAST APPROACH SLAB LOCATION
▽	R501	X	17	17	4-5	X			PARAPET VERT.
	R502	X	17	17	5-0	X			PARAPET VERT.
▽	R503	X	12	12	2-9	X			PARAPET VERT.
▽	R504	X	17	17	4-4	X			PARAPET VERT.
	R505	X	11	11	4-9	X			PARAPET VERT.
	R506	X	6	6	4-10	X			PARAPET VERT.
	R507	X	1	1	19-4	X			PARAPET HORIZ.
	R508	X	5	5	19-3				PARAPET HORIZ.

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



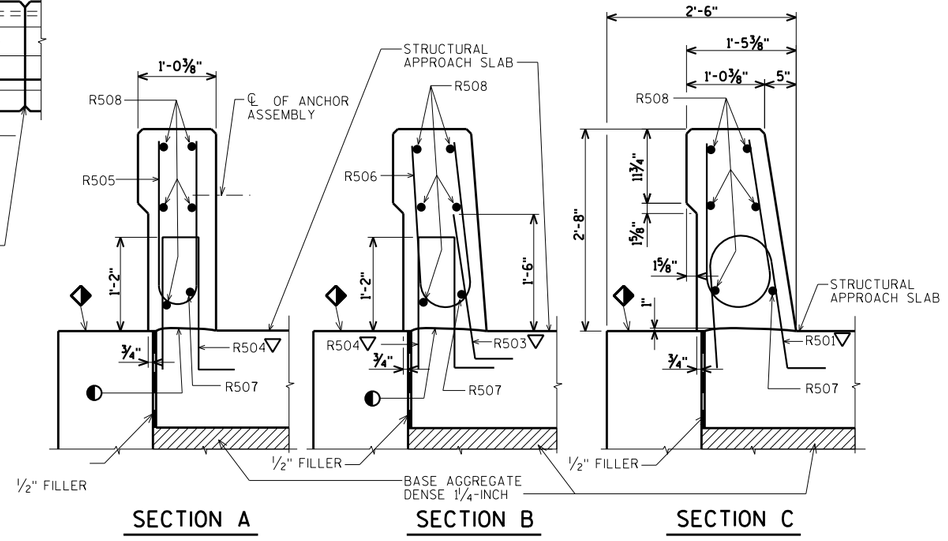




OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A ¾" - 'V' GROOVE.

PLAN

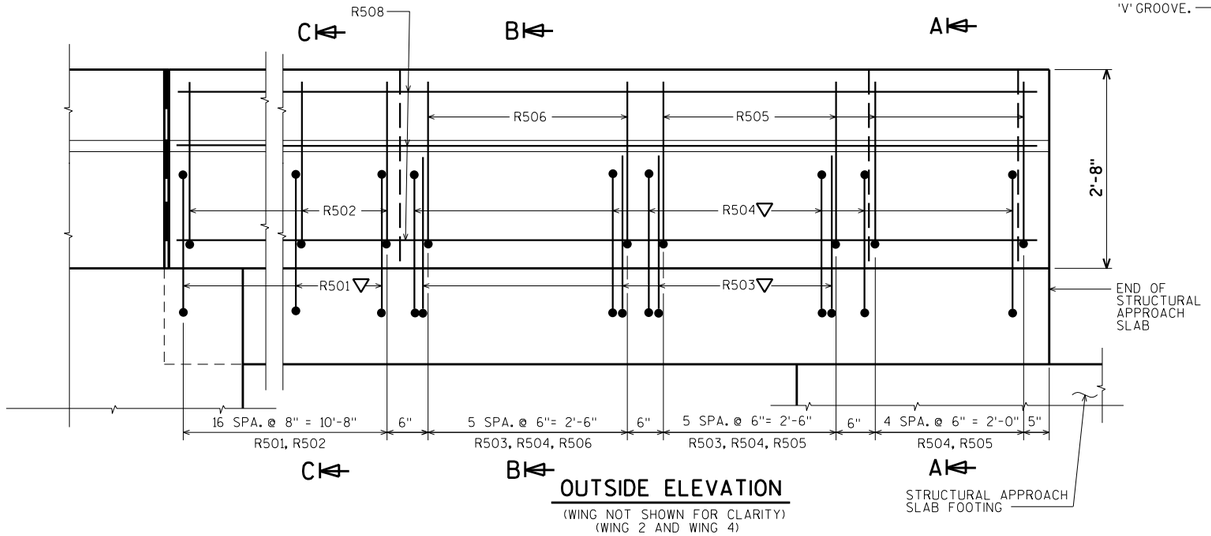
(WING 2 AND WING 4)



SECTION A

SECTION B

SECTION C



OUTSIDE ELEVATION

(WING NOT SHOWN FOR CLARITY)
(WING 2 AND WING 4)

◆ SLOPE AWAY FROM PARAPET FOR DRAINAGE

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

▽ R501, R503, AND R504 BARS TO BE TIED TO STRUCTURAL APPROACH SLAB STEEL BEFORE STRUCTURAL APPROACH SLAB IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

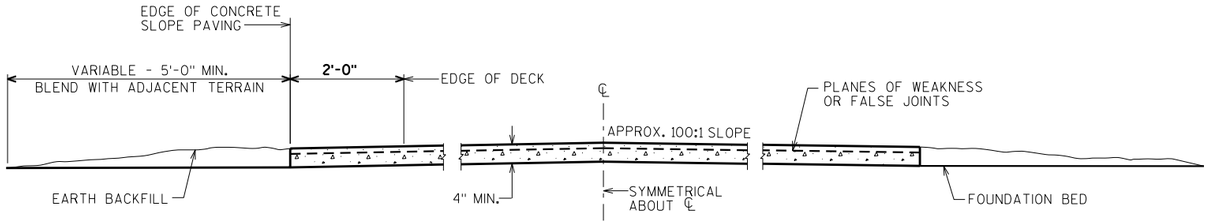
SINGLE SLOPE PARAPET 32SS WINGS 2 AND 4

SHEET 33 OF 34
571

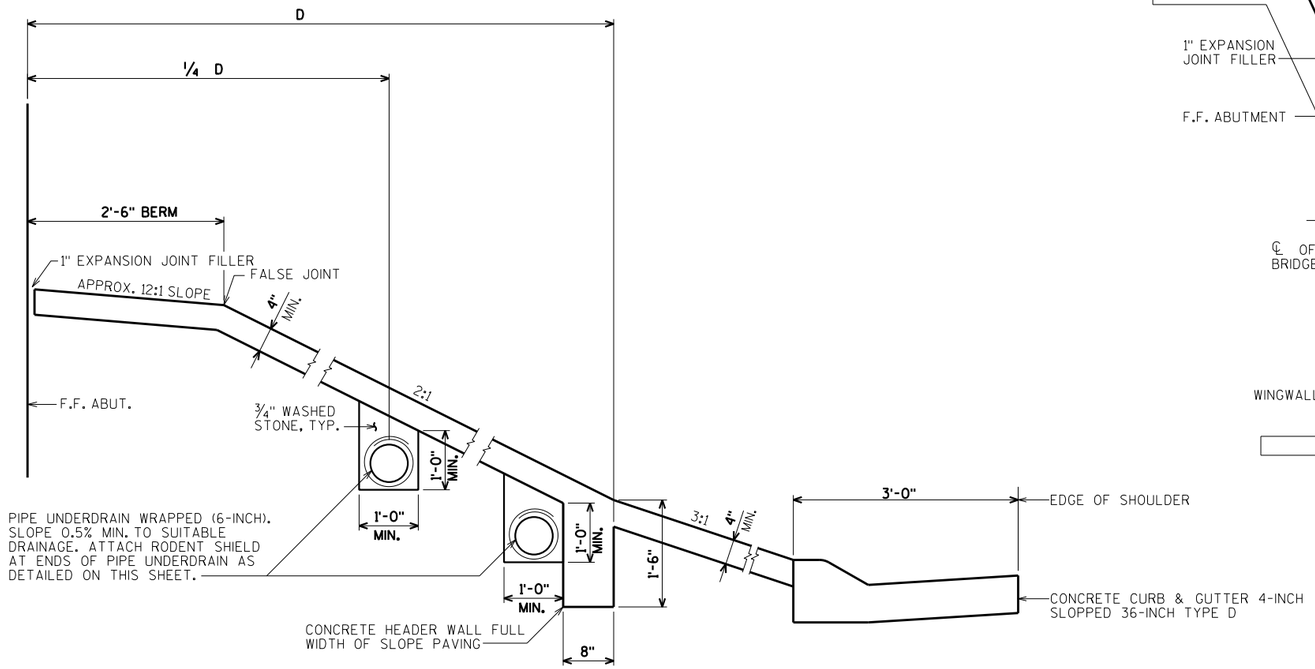
ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

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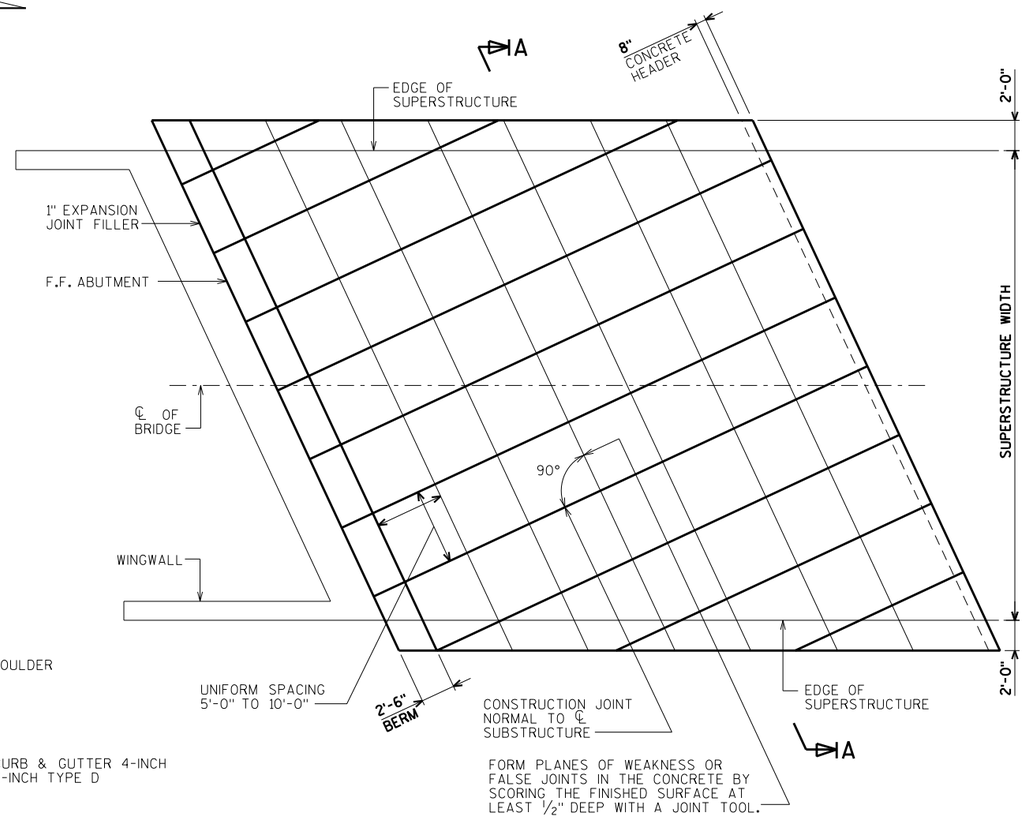
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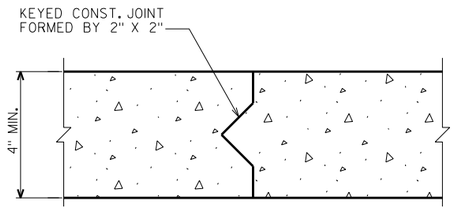
SECTION A-A



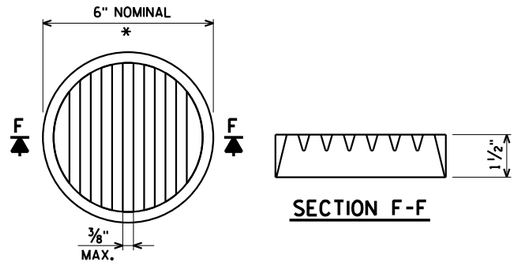
TYPICAL SECTION



PLAN
(TYPICAL SECTION SHOWN)
F.F. DENOTES FRONT FACE



CONSTRUCTION JOINT DETAIL



SECTION F-F

* 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 INCLUDED WITH THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE 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.

RODENT SHIELD DETAIL

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

STRUCTURE B-13-801

DRAWN BY JCK | PLANS CK'D. CBM

SLOPE PAVING CONCRETE

SHEET 34 OF 34
572

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
3433 Oakwood Hills Parkway
Eau Claire, WI 54701
www.AyresAssociates.com

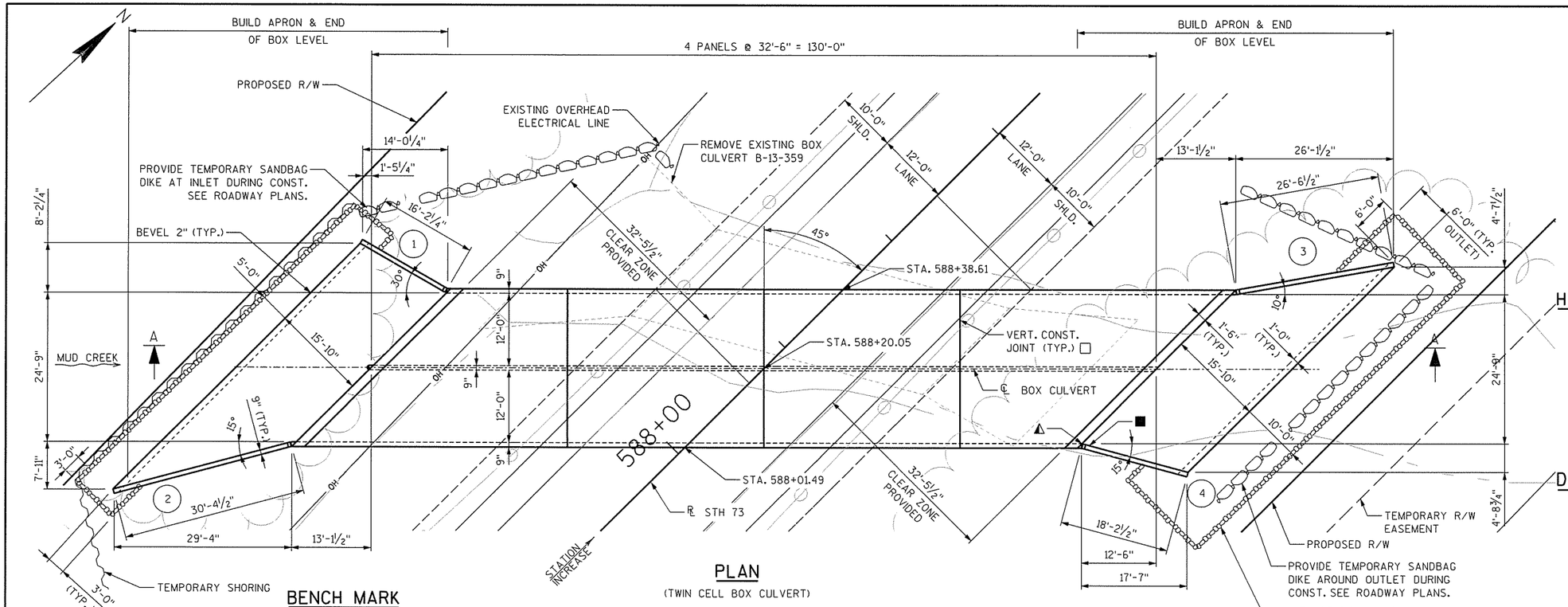
$PRFNAME$
U:\41-0660.0X - IH-39 Dane Partners General Bridge Information_USH 12 over STH 73 B-13-801\BRIDGE\B-13-801 slopePAV.dgn

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8

STATE PROJECT NUMBER

3070-00-73

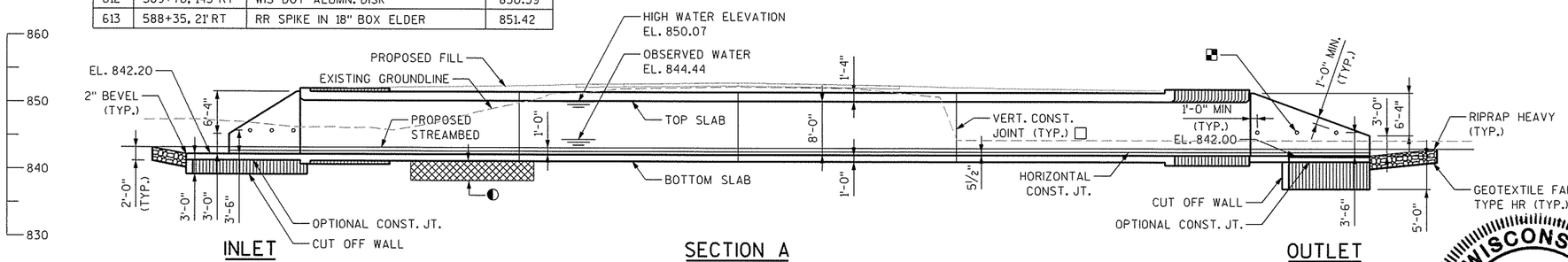


PLAN

(TWIN CELL BOX CULVERT)

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
603	580+94, 72' RT	RR SPIKE	848.68
612	589+78, 145' RT	WIS DOT ALUMN. DISK	850.39
613	588+35, 21' RT	RR SPIKE IN 18" BOX ELDER	851.42



INLET — SECTION A — OUTLET

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.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS B-13-802" SHALL BE THE EXISTING GROUND LINE.

ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TO THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUT OFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE EXISTING STRUCTURE, B-13-359, IS A TWIN CELL 8'-0" HIGH X 9'-0" WIDE CAST-IN-PLACE BOX CULVERT APPROXIMATELY 50' IN LENGTH.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS IN CHAPTER 36 STANDARDS OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES". CULVERT APRONS SHALL BE CAST-IN-PLACE.

LEGEND

- (X) INDICATES WING NUMBER
- ◭ SEE CORNER DETAILS (SHEET 5)
- ■ NAME PLATE LOCATION (SEE SHEET 3)
- ◐ WITHOUT REMOVING GRANULAR FILL UNDER EXISTING CULVERT, EXCAVATE 3'± BELOW THE BOTTOM OF SLAB TO ELEVATION 838.00± (TO BE PAID FOR AS "EXCAVATION FOR STRUCTURES"). PLACE GEOTEXTILE FABRIC TYPE 'C', AND BACKFILL WITH COMPACTED STRUCTURAL BACKFILL TO MEET WISDOT STANDARD SPECIFICATION SECTION 210. NEW FILL SHALL MATCH GRANULAR FILL UNDER EXISTING CULVERT. ENGINEER TO CONFIRM FILL UNIFORMITY BY VISUAL INSPECTION. EXTEND FILL AND FABRIC 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT THE ENTIRE LENGTH OF THE CULVERT AND APRON.
- ☐ PLACE AN 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.
- ◪ 4" ϕ WEEP HOLES, 3 PER WINGWALL EVENLY SPACED, TYPICAL. AT EACH WEEP HOLE PROVIDE 12"x12"x12" COARSE AGGREGATE SIZE #1 WRAPPED IN TYPE "DF" GEOTEXTILE FABRIC. WORK TO BE PAID FOR UNDER BID ITEM, "CONCRETE MASONRY CULVERT".

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. BOX CULVERT DETAILS
3. BOX CULVERT DETAILS
4. APRON DETAILS
5. APRON DETAILS
6. SUBSURFACE EXPLORATION

HYDRAULIC DATA

Q(100) = 800 C.F.S.
V(100) = 4.40 F.P.S.
HIGH WATER ELEVATION, Q(100) = 850.07
WATERWAY AREA = 182 SQ. FT.
DRAINAGE AREA = 13.5 SQ. MI.
ROADWAY OVERTOPPING FREQUENCY = N/A
SCOUR CRITICAL CODE = 8
HIGH WATER EL. Q(2) = 847.34
Q(2) = 270 C.F.S.
V(2) = 3.28 F.P.S.

DESIGN DATA

LIVE LOAD: HL-93
INV. RF: 1.05
OPER. RF: 1.35
WISCONSIN STD. PERMIT VEHICLE (WIS-SPV) = 255 KIPS
EARTH LOAD: DESIGNED FOR 1'-0" TO 2'-0" OF FILL.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY _____ f'c = 3.5 K.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 _____ fy = 60 K.S.I.

TRAFFIC DATA

AADT (2015)= 4,450
AADT (2035)= 6,500
RDS= 60 M.P.H.

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER (608) 266-8489
CONSULTANT: MIKE RADTKE (414) 347-1607

NO.	DATE	REVISION	BY

emcs, LLC
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

WISCONSIN — MICHAEL D. RADTKE 40967 Elm Grove WI — PROFESSIONAL ENGINEER — 10/24/2014

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher KAR 11/12/14
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-13-802

STH 73 OVER MUD CREEK

COUNTY	TOWN
DANE	CHRISTIANA

DESIGN SPEC. AASHTO LRFD DESIGN SPEC.

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJC	MDR	AJC	MDR

GENERAL PLAN & ELEVATION

573 — 1 OF 6

8

8

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\09 STRUCTURES\B-13-802\Plan\080101_gp_B13802.dgn

PLOT DATE : 10/24/2014

PLOT BY : ajc

STATE PROJECT NUMBER

3070-00-73

BILL OF BARS FOR BARREL

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
B501	208	25'-11"			TOP SLAB TRANS. I.F.
B502	94	14'-0"		X	TOP SLAB TRANS. I.F.
B603	106	25'-11"			BOTTOM SLAB TRANS. I.F.
B604	48	14'-0"		X	BOTTOM SLAB TRANS. I.F.
B505	132	17'-1"			TOP SLAB TRANS. E.F.
B506	128	6'-0"			TOP SLAB TRANS. E.F.
B607	132	17'-1"			BOTTOM SLAB TRANS. E.F.
B608	128	6'-0"			BOTTTOM SLAB TRANS. E.F.
B409	264	10'-1"	X		CORNER BARS
B410	256	8'-0"	X		CORNER BARS
B411	104	32'-2"			TOP & BOT. SLAB LONG. I.F. INT. PANEL
B412	104	32'-1"		X	TOP & BOT. SLAB LONG. I.F. EXT. PANEL
B413	36	32'-2"			TOP & BOT. SLAB LONG. E.F. INT. PANEL
B414	36	32'-1"		X	TOP & BOT. SLAB LONG. E.F. EXT. PANEL
B415	108	32'-2"			EXTERIOR AND INTERIOR WALL LONG.
B416	22	44'-6"			EXTERIOR WALL LONG. EXT. PANEL
B417	22	19'-0"			EXTERIOR WALL LONG. EXT. PANEL
B418	264	8'-6"			EXTERIOR WALL VERT. I.F.
B419	264	2'-4"			EXTERIOR WALL DOWEL
B520	264	8'-11"	X		INTERIOR WALL VERT.
B521	264	2'-7"			INTERIOR WALL DOWEL
B1022	24	36'-9"			HEADERS HORIZ.
B323	49	4'-10"	X		HEADERS TOP VERT. TIES
B324	49	5'-1"	X		HEADERS TOP VERT. TIES
B325	98	4'-5"	X		HEADERS BOT. VERT. TIES
B526	228	4'-0"			CONST. JT. DOWEL

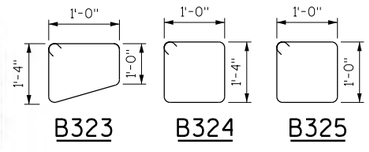
ALL REINFORCEMENT BARS IN BARREL WILL BE UNCOATED.

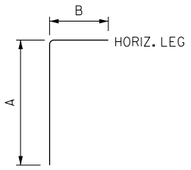
FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
B502	2 SERIES OF 47	2'-6" TO 25'-6"
B604	2 SERIES OF 24	2'-6" TO 25'-6"
B412	4 SERIES OF 26	19'-7" TO 44'-7"
B414	4 SERIES OF 9	19'-7" TO 44'-7"

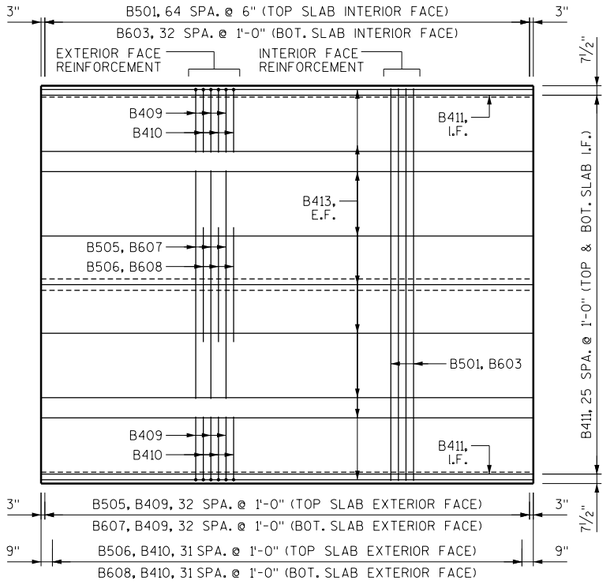
BUNDLE AND TAG EACH SERIES SEPERATELY



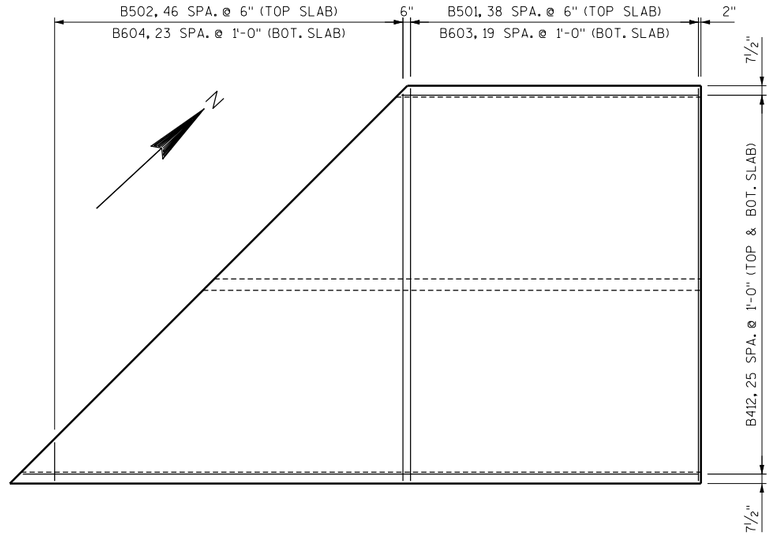


B409, B410, B520

BAR MARK	A	B
B409	5'-11"	4'-3"
B410	3'-10"	4'-3"
B520	8'-6"	6"



PLAN VIEW OF INTERIOR PANEL

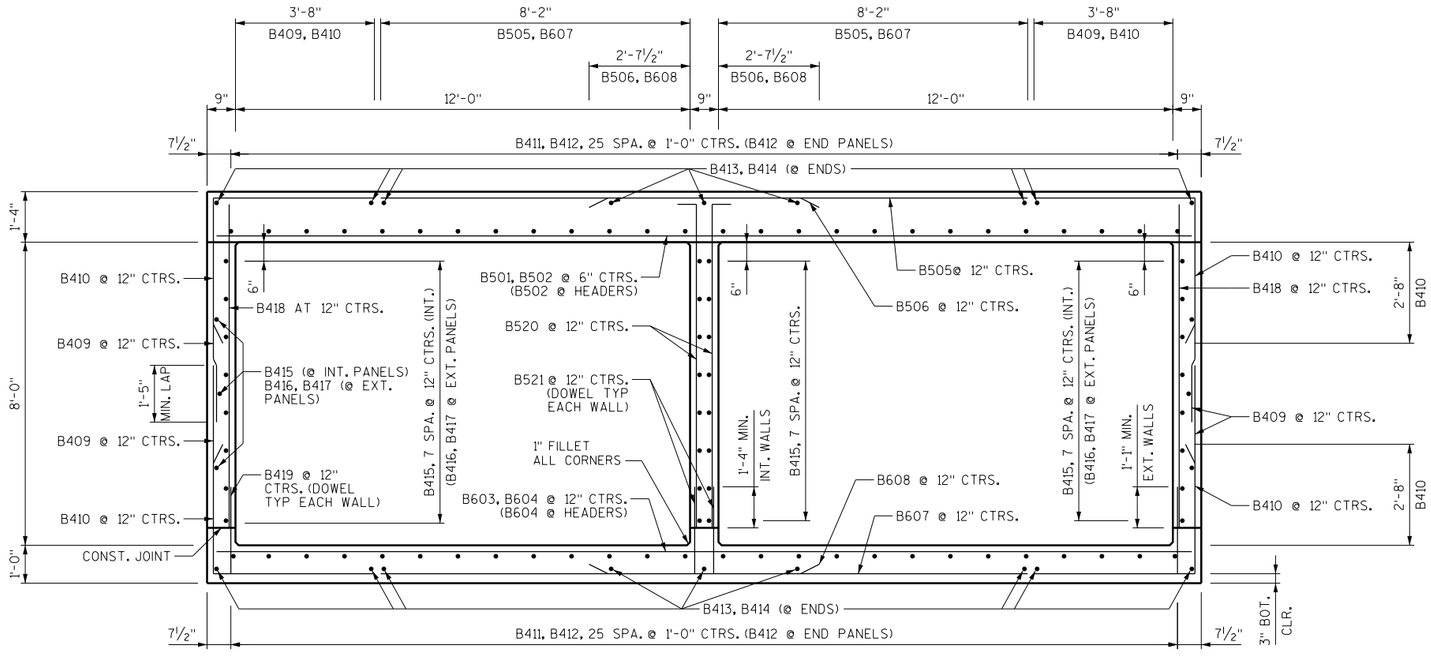


PLAN VIEW OF EXTERIOR PANEL

INTERIOR FACE

PLAN VIEW OF EXTERIOR PANEL

EXTERIOR FACE



SECTION THRU BOX

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-802

DRAWN BY AJC | PLANS CK'D. MDR

BOX CULVERT DETAILS

SHEET 7 OF 6
574

8

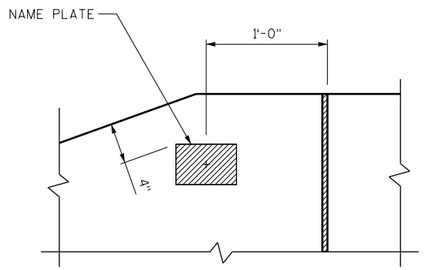
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STATE PROJECT NUMBER

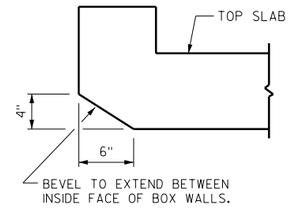
3070-00-73

TOTAL ESTIMATED QUANTITIES

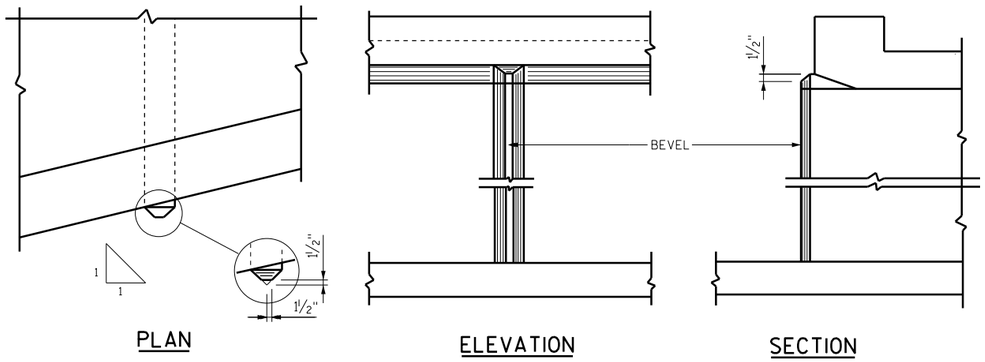
BID ITEM NO.	BID ITEMS	UNIT	TOTAL
203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY STA. 588+23	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS B-13-802	LS	1
210.0100	BACKFILL STRUCTURE	CY	2,900
504.0100	CONCRETE MASONRY CULVERTS	CY	461
505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	47,370
505.0610	BAR STEEL REINFORCEMENT HS COATED CULVERTS	LB	2,330
511.1200	TEMPORARY SHORING B-13-802	SF	765
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	44
606.0300	RIPRAP HEAVY	CY	80
645.0105	GEOTEXTILE FABRIC TYPE C	SY	490
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	120
	NON-BID ITEMS		
	FILLER	SIZE	3/4"



NAME PLATE LOCATION
WING 4

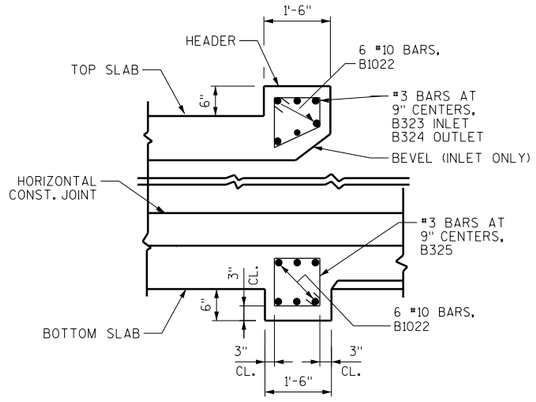


SECTION THRU INLET HEADER

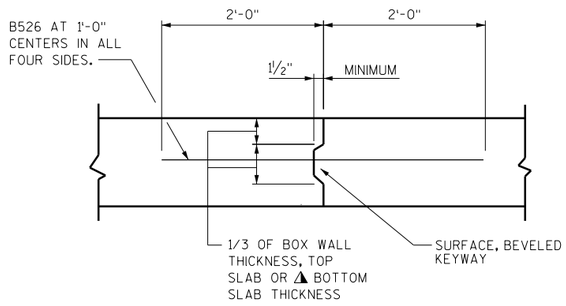


PLAN ELEVATION SECTION

INLET NOSE CENTERWALL DETAILS



TYPICAL SECTION THRU
CULVERT HEADERS



CONSTRUCTION JOINT

⚠ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.

8

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-802

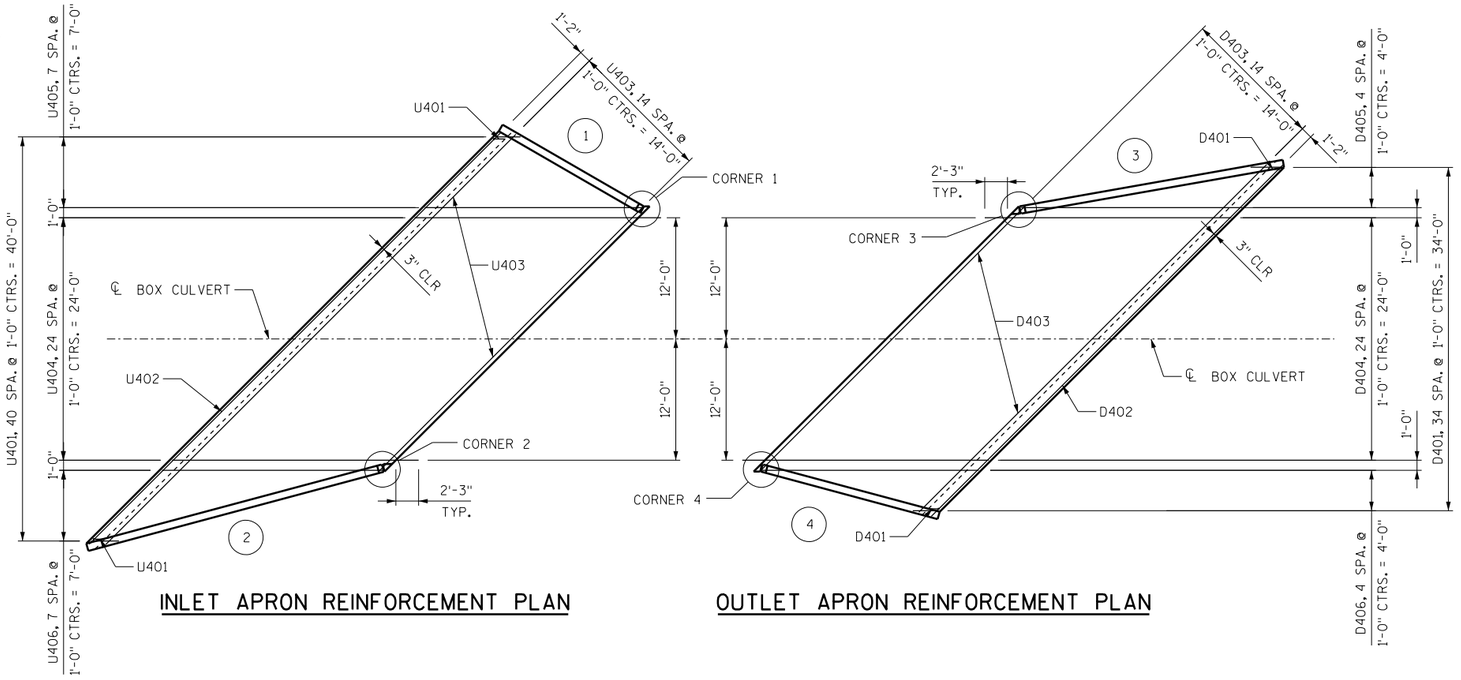
DRAWN BY AJC | PLANS CK'D. MDR

BOX CULVERT DETAILS

SHEET 3 OF 6
575

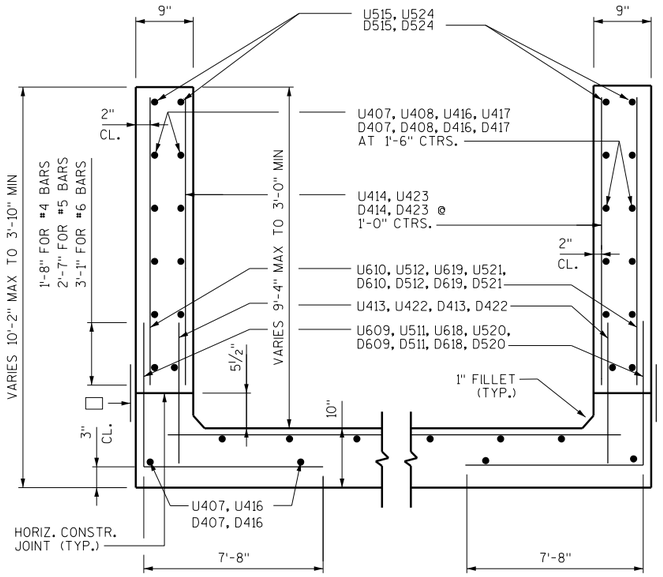
STATE PROJECT NUMBER

3070-00-73



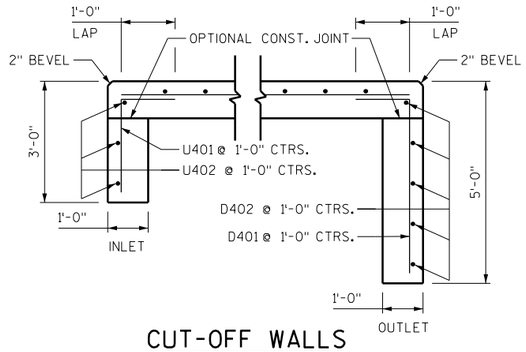
INLET APRON REINFORCEMENT PLAN

OUTLET APRON REINFORCEMENT PLAN



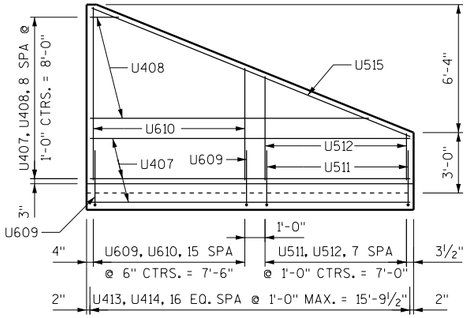
SECTION THRU WINGWALLS

☐ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING. (TYP.)



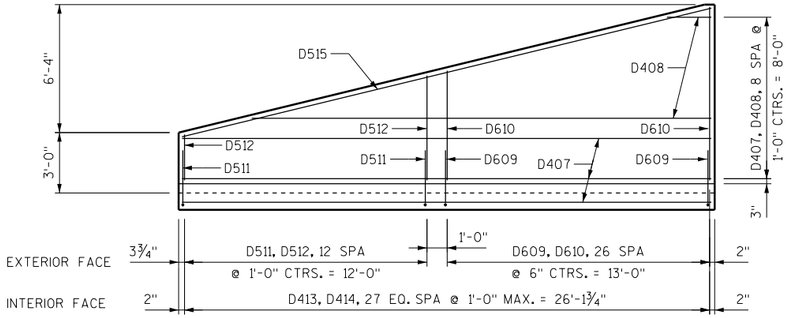
CUT-OFF WALLS

SECTION THRU WALLS



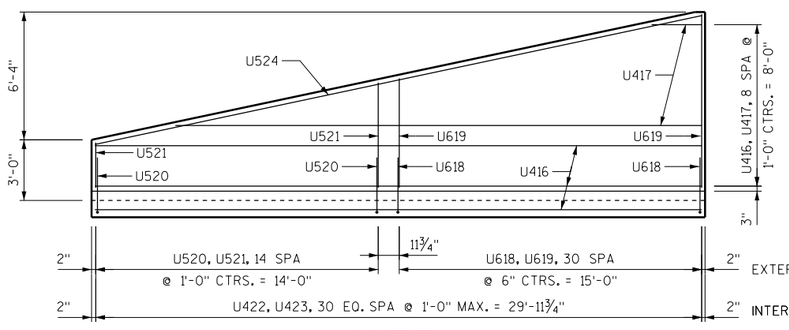
WING 1

EXTERIOR FACE



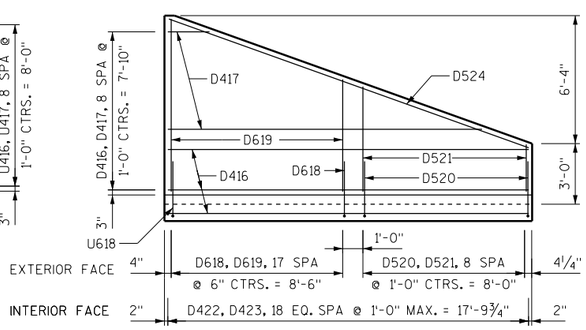
WING 3

EXTERIOR FACE



WING 2

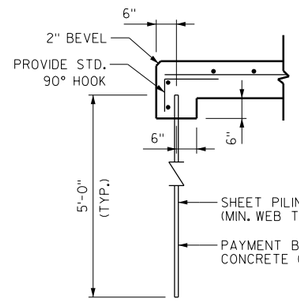
EXTERIOR FACE



WING 4

EXTERIOR FACE

NOTE:
ALL WING ELEVATION VIEWS SHOW EXTERIOR FACE REINFORCING ONLY. INTERIOR FACE REINFORCING NOT SHOWN FOR CLAIRTY.



ALTERNATE CUT-OFF WALL

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-802

DRAWN BY AJC | PLANS CK'D. MDR

APRON DETAILS

SHFFT 4 OF 6
576

8

8

STATE PROJECT NUMBER

3070-00-73

BILL OF BARS FOR INTLET APRON

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
U401		41	3'-6"	X		INLET CUTOFF WALL VERT.
U402		3	57'-6"			INLET CUTOFF WALL HORIZ.
U403		15	47'-2"		X	INLET APRON TRANSVERSE
U404		25	24'-6"			INLET APRON LONG.
U405		8	12'-0"		X	INLET APRON LONG.
U406		8	12'-3"		X	INLET APRON LONG.
U407		8	15'-9"			INLET WINGWALL LONG. WING 1
U408		12	7'-7"		X	INLET WINGWALL LONG. WING 1
U609	X	16	11'-8"	X		INLET WINGWALL CONER BAR WING 1
U610		16	7'-1"		X	INLET WINGWALL VERT. E.F. WING 1
U511	X	8	11'-3"	X		INLET WINGWALL CONER BAR WING 1
U512		8	3'-9"		X	INLET WINGWALL VERT. E.F. WING 1
U413	X	17	2'-9"			INLET WINGWALL I.F. DOWEL WING 1
U414		17	5'-5"		X	INLET WINGWALL VERT. I.F. WING 1
U515		2	16'-11"			INLET WINGWALL HORIZ. TOP WING 1
U416		8	29'-11"			INLET WINGWALL LONG. WING 2
U417		12	14'-3"		X	INLET WINGWALL LONG. WING 2
U618	X	31	11'-8"	X		INLET WINGWALL CONER BAR WING 2
U619		31	7'-0"		X	INLET WINGWALL VERT. E.F. WING 2
U520	X	15	11'-3"	X		INLET WINGWALL CONER BAR WING 2
U521		15	3'-9"		X	INLET WINGWALL VERT. E.F. WING 2
U422	X	31	2'-9"			INLET WINGWALL I.F. DOWEL WING 2
U423		31	5'-5"		X	INLET WINGWALL VERT. I.F. WING 2
U524		2	30'-7"			INLET WINGWALL HORIZ. TOP WING 2

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BILL OF BARS FOR OUTLET APRON

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
D401		35	5'-6"	X		OUTLET CUTOFF WALL VERT.
D402		5	49'-0"			OUTLET CUTOFF WALL HORIZ.
D403		15	42'-9"		X	OUTLET APRON LONG.
D404		25	24'-6"			OUTLET APRON LONG.
D405		5	12'-5"		X	OUTLET APRON LONG.
D406		5	12'-0"		X	OUTLET APRON LONG.
D407		8	26'-1"			OUTLET WINGWALL LONG. WING 3
D408		12	12'-6"		X	OUTLET WINGWALL LONG. WING 3
D609	X	27	11'-8"	X		OUTLET WINGWALL CONER BAR WING 3
D610		27	7'-0"		X	OUTLET WINGWALL VERT. E.F. WING 3
D511	X	13	11'-3"	X		OUTLET WINGWALL CONER BAR WING 3
D512		13	3'-9"		X	OUTLET WINGWALL VERT. E.F. WING 3
D413	X	28	2'-9"			OUTLET WINGWALL I.F. DOWEL WING 3
D414		28	5'-5"		X	OUTLET WINGWALL VERT. I.F. WING 3
D515		2	26'-10"			INLET WINGWALL HORIZ. TOP WING 3
D416		8	17'-9"			OUTLET WINGWALL LONG. WING 4
D417		12	8'-9"		X	OUTLET WINGWALL LONG. WING 4
D618	X	18	11'-8"	X		OUTLET WINGWALL CONER BAR WING 4
D619		18	7'-1"		X	OUTLET WINGWALL VERT. E.F. WING 4
D520	X	9	11'-3"	X		OUTLET WINGWALL CONER BAR WING 4
D521		9	3'-9"		X	OUTLET WINGWALL VERT. E.F. WING 4
D422	X	19	2'-9"			OUTLET WINGWALL I.F. DOWEL WING 4
D423		19	5'-5"		X	OUTLET WINGWALL VERT. I.F. WING 4
D524		2	18'-10"			INLET WINGWALL HORIZ. TOP WING 3

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BAR SERIES TABLE

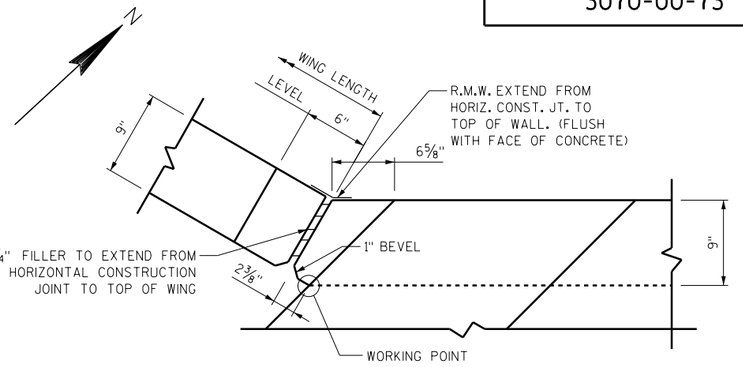
BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U403	1 SERIES OF 15	36'-11" TO 57'-5"
U405	1 SERIES OF 8	2'-5" TO 21'-7"
U406	1 SERIES OF 8	2'-8" TO 21'-10"
U408	2 SERIES OF 6	1'-5" TO 13'-9"
U610	1 SERIES OF 16	5'-7" TO 8'-7"
U512	1 SERIES OF 8	2'-3" TO 5'-3"
U414	1 SERIES OF 17	2'-3" TO 8'-7"
U417	2 SERIES OF 6	2'-6" TO 26'-0"
U619	1 SERIES OF 31	5'-5" TO 8'-7"
U521	1 SERIES OF 15	2'-3" TO 5'-3"
U423	1 SERIES OF 31	2'-3" TO 8'-7"

BUNDLE AND TAG EACH SERIES SEPERATELY

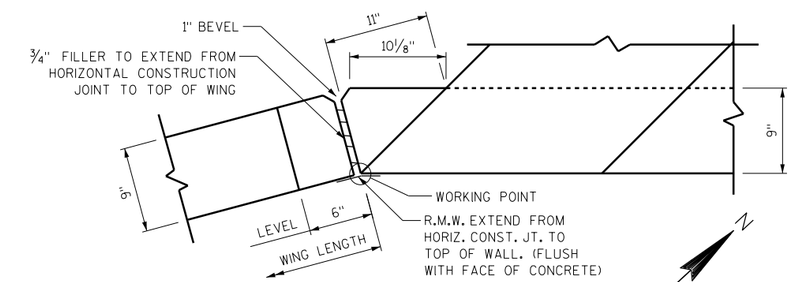
BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
D403	1 SERIES OF 15	36'-10" TO 48'-8"
D405	1 SERIES OF 5	3'-1" TO 21'-9"
D406	1 SERIES OF 5	2'-7" TO 21'-5"
D408	2 SERIES OF 6	2'-3" TO 22'-9"
D610	1 SERIES OF 27	5'-5" TO 8'-7"
D512	1 SERIES OF 13	2'-3" TO 5'-3"
D414	1 SERIES OF 28	2'-3" TO 8'-7"
D417	2 SERIES OF 6	2'-0" TO 15'-6"
D619	1 SERIES OF 18	5'-7" TO 8'-7"
D521	1 SERIES OF 9	2'-3" TO 5'-3"
D423	1 SERIES OF 19	2'-3" TO 8'-7"

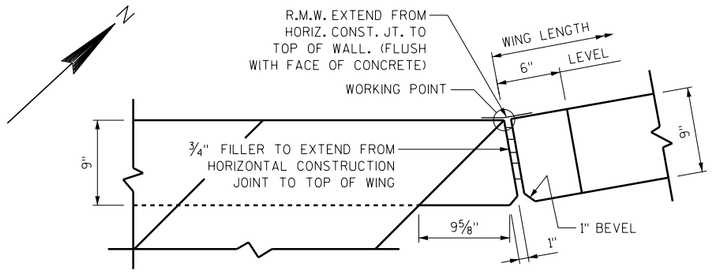
BUNDLE AND TAG EACH SERIES SEPERATELY



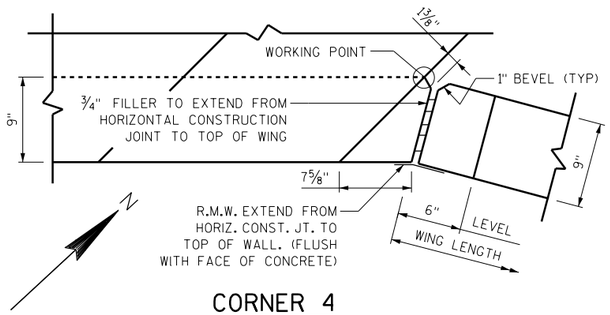
CORNER 1



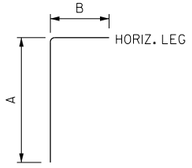
CORNER 2



CORNER 3

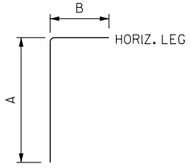


CORNER 4



U401, U609, U511, U618, U520

BAR MARK	A	B
U401	2'-7"	1'-0"
U609	4'-2"	7'-8"
U511	3'-8"	7'-8"
U618	4'-2"	7'-8"
U520	3'-8"	7'-8"



D401, D609, D511, D618, D520

BAR MARK	A	B
D401	4'-7"	1'-0"
D609	4'-2"	7'-8"
D511	3'-8"	7'-8"
D618	4'-2"	7'-8"
D520	3'-8"	7'-8"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-802

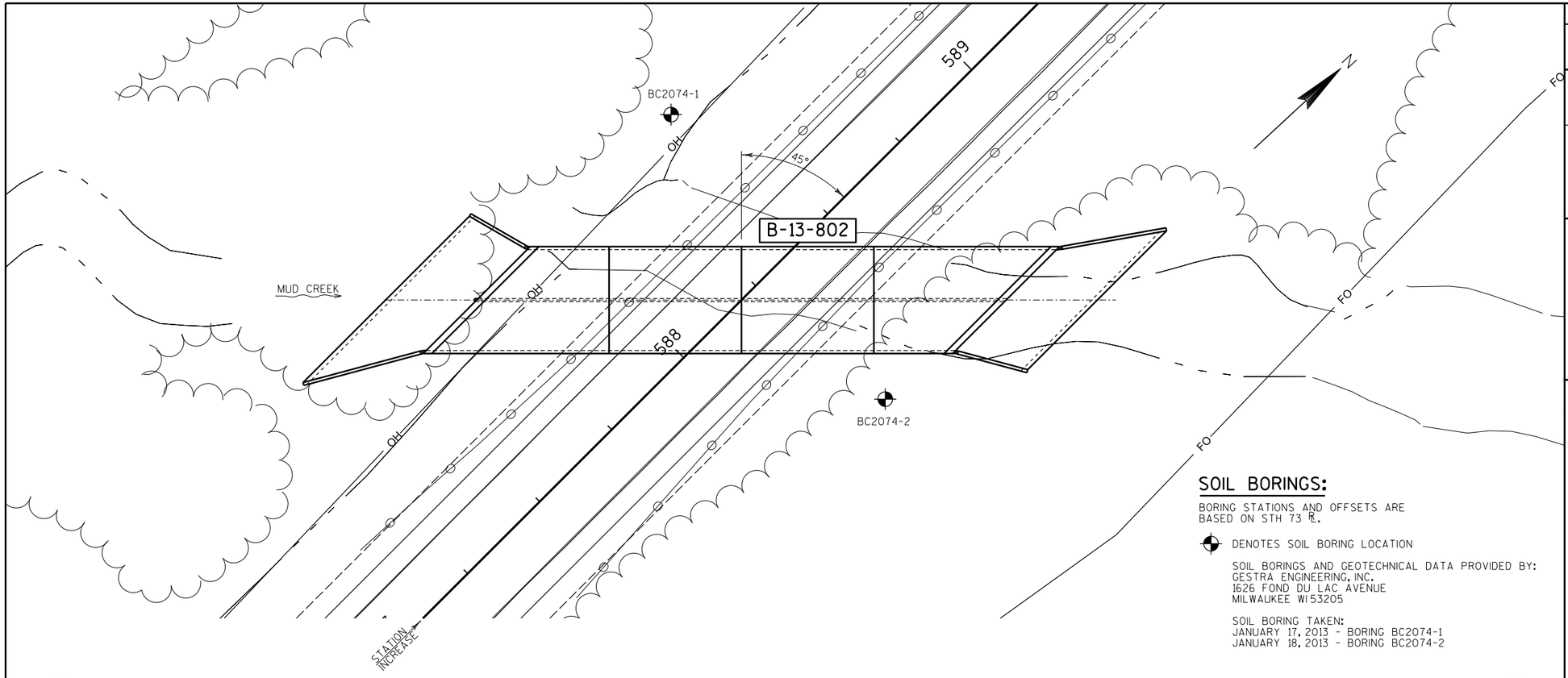
DRAWN BY AJC | PLANS CK'D. MDR

APRON DETAILS

SHEET 5 OF 6
577

8

8



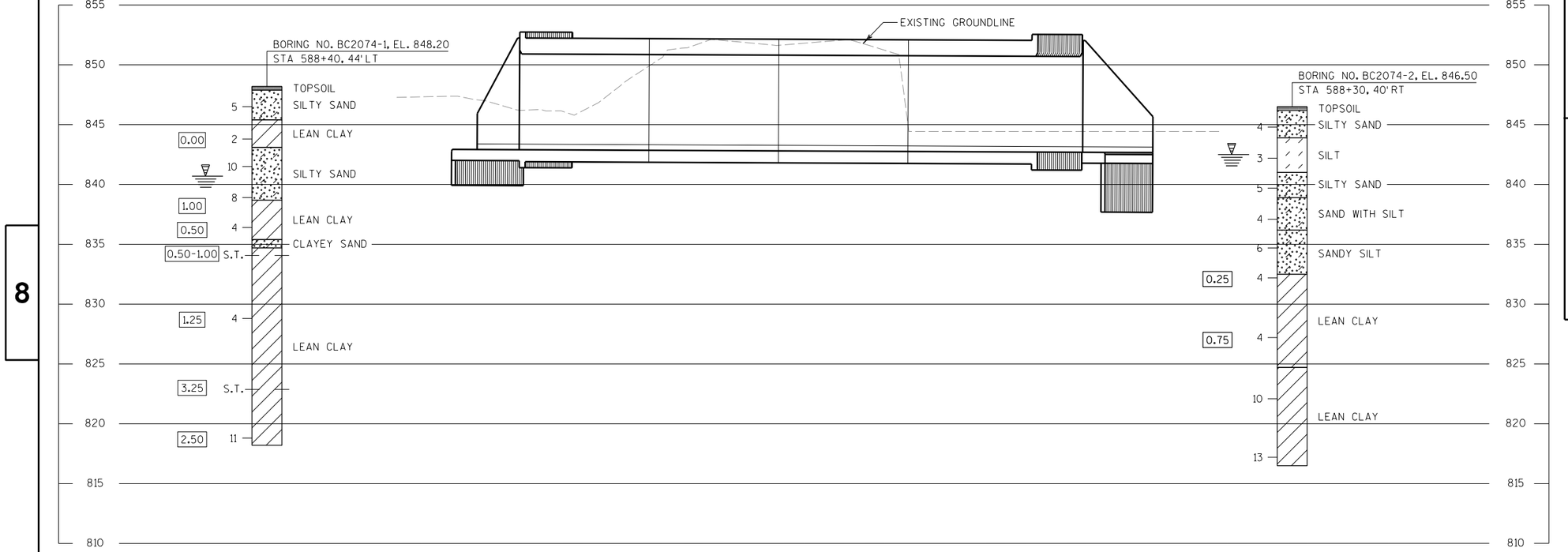
SOIL BORINGS:

BORING STATIONS AND OFFSETS ARE BASED ON STH 73 R.

DENOTES SOIL BORING LOCATION

SOIL BORINGS AND GEOTECHNICAL DATA PROVIDED BY:
GESTRA ENGINEERING, INC.
1626 FOND DU LAC AVENUE
MILWAUKEE WI 53205

SOIL BORING TAKEN:
JANUARY 17, 2013 - BORING BC2074-1
JANUARY 18, 2013 - BORING BC2074-2



STATE PROJECT NUMBER

3070-00-73

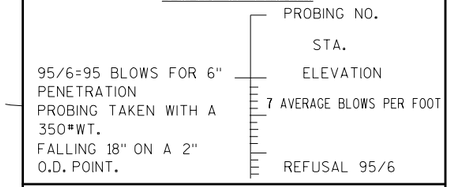
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

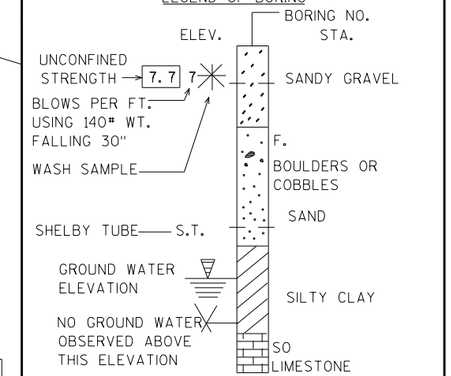
MATERIAL SYMBOLS

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 O.D.X1.4" 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. 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-13-802

DRAWN BY AJC | PLANS CK'D. MDR

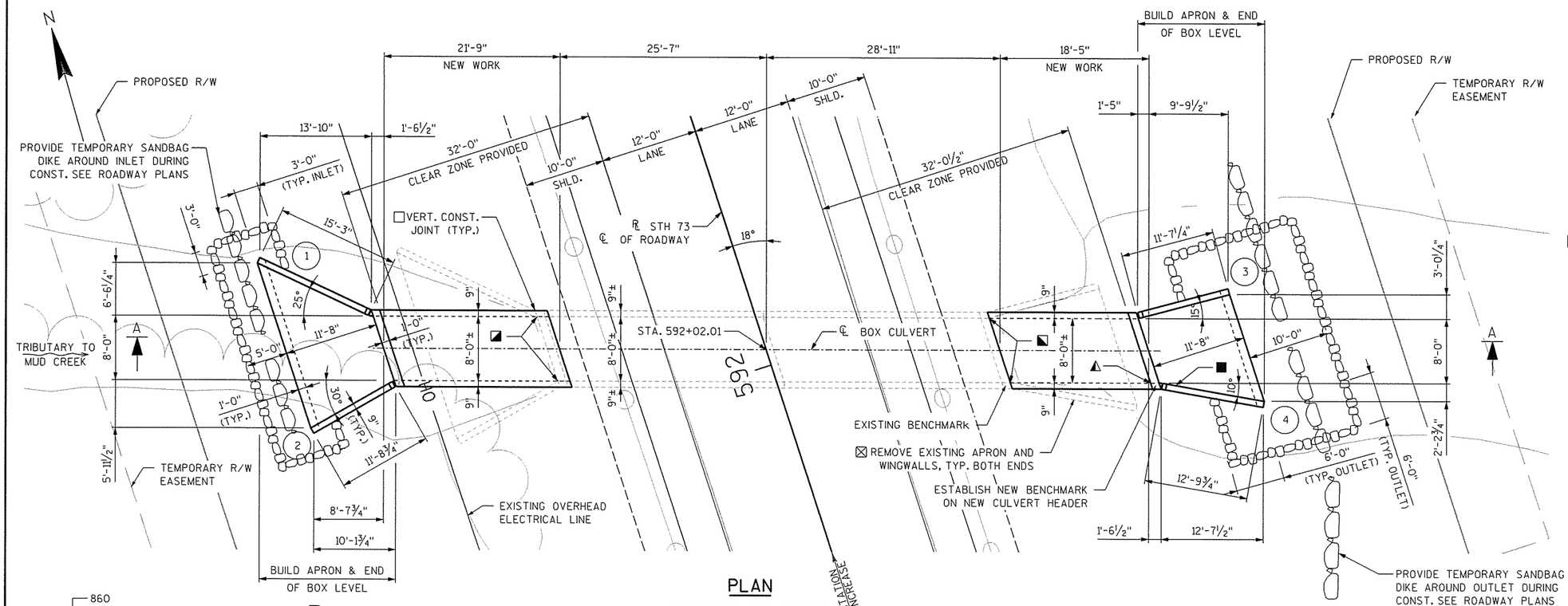
SUBSURFACE EXPLORATION

SHEET 6 OF 6
578

8 8

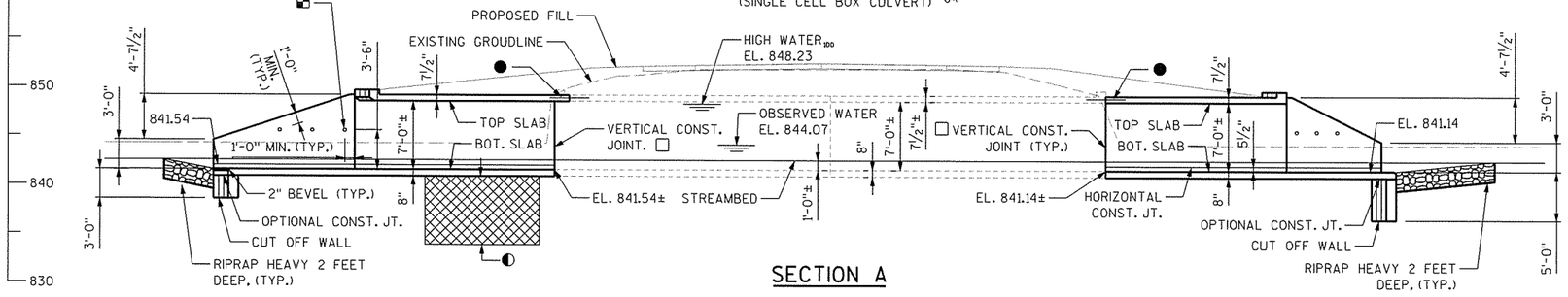
STATE PROJECT NUMBER

3070-00-73



PLAN

(SINGLE CELL BOX CULVERT)



INLET

SECTION A

OUTLET

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. BOX CULVERT DETAILS
3. APRON DETAILS
4. APRON DETAILS
5. SUBSURFACE EXPLORATION

HYDRAULIC DATA

Q(100) = 250 C.F.S.
V(100) = 5.01 F.P.S.
HIGH WATER ELEVATION, Q(100) = 848.23
WATERWAY AREA = 50 SQ. FT.
DRAINAGE AREA = 2.6 SQ. MI.
ROADWAY OVERTOPPING FREQUENCY = N/A
SCOUR CRITICAL CODE = 8
Q(2) = 86 C.F.S.
V(2) = 1.54 F.P.S.
HIGH WATER EL, Q(2) = 846.05

DESIGN DATA

LIVE LOAD: HL-93
INV. RF: 1.05
OPER. RF: 1.35
WIS. STD. PER. VEHICLE = 255 KIPS
EARTH LOAD: DESIGNED FOR 3 TO 4 FEET OF FILL.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY _____ f'c = 3.5 K.S.I.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60_____ fy = 60 K.S.I.

TRAFFIC DATA

AADT (2015) = 4,450
AADT (2035) = 6,500
RDS= 60 M.P.H.

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER (608) 266-8489
CONSULTANT: MIKE RADTKE (414) 347-1607

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.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-13-105" SHALL BE THE EXISTING GROUND LINE.

WITHIN THE LENGTH OF THE BOX EXTENSION, ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL THE TOP OF THE BOX WITHIN THE LENGTH OF THE CULVERT.

THE CONCRETE IN THE CUT OFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE EXISTING STRUCTURE, C-13-105, IS A SINGLE CELL 7'-0" HIGH X 8'-0" WIDE CAST-IN-PLACE BOX CULVERT APPROXIMATELY 56' IN LENGTH.

DIMENSIONS OF EXISTING BOX CULVERT ON PLANS ARE FROM ORIGINAL PLANS DATED 1988.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT UNLESS SHOWN OR NOTED OTHERWISE.

LEGEND

(X) INDICATES WING NUMBER

◭ SEE CORNER DETAILS (SHEET 4)

■ NAME PLATE LOCATION (SEE SHEET 2)

◐ WITHOUT REMOVING GRANULAR FILL UNDER EXISTING CULVERT, EXCAVATE 7'± BELOW THE BOTTOM OF SLAB TO ELEVATION 833.00± (TO BE PAID FOR AS "EXCAVATION FOR STRUCTURES"). PLACE GEOTEXTILE FABRIC TYPE 'C', AND BACKFILL WITH COMPACTED STRUCTURAL BACKFILL THAT MEETS WISDOT STANDARD SPECIFICATION SECTION 210. NEW FILL TO MATCH GRANULAR FILL UNDER EXISTING CULVERT, GEOTECHNICAL ENGINEER TO CONFIRM FILL UNIFORMITY BY VISUAL INSPECTION. EXTEND FILL AND FABRIC 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT FOR THE ENTIRE LENGTH OF THE CULVERT INCLUDING APRONS.

□ PLACE AN 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

◪ INSIDE WALLS TO MATCH EXISTING

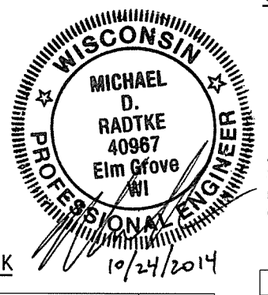
⊠ REMOVE EXISTING APRON AND WINGS. EXTEND EXISTING BOTTOM SLAB BAR STEEL REINFORCEMENT 2'-0" INTO NEW WORK.

● CONCRETE MASONRY ANCHORS, TYPE L (EPOXY ANCHORED), 5/8-INCH, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB). REMOVE 1'-6" OF EXISTING TOP SLAB AT INLET ONLY.

◪ 4" ϕ WEEP HOLES, 3 PER WINGWALL EVENLY SPACED, TYPICAL. AT EACH WEEP HOLE PROVIDE 12"x12"x12" COARSE AGGREGATE SIZE #1 WRAPPED IN TYPE "DF" GEOTEXTILE FABRIC. WORK TO BE PAID FOR UNDER BID ITEM, "CONCRETE MASONRY CULVERT".

BENCH MARK

NO.	STATION	DESCRIPTION	ELEV.
603	580+94, 72' RT	RR SPIKE	848.68
612	589+78, 145' RT	WIS DOT ALUMN. DISK	850.39
613	588+35, 21' RT	RR SPIKE IN 18" BOX ELDER	851.42



NO.	DATE	REVISION	BY

emcs LLC
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 11/28/14
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-13-105

STH 73 OVER TRIBUTARY TO MUD CREEK

COUNTY	TOWN
DANE	CHRISTIANA

DESIGN SPEC. AASHTO LRFD DESIGN SPEC.

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
AJC	MDR	AJC	MDR

GENERAL PLAN & ELEVATION

579 1 OF 5

8

8

STATE PROJECT NUMBER

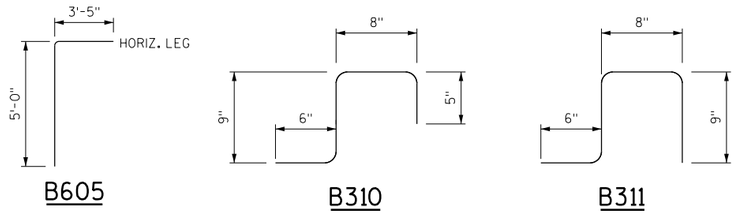
3070-00-73

TOTAL ESTIMATED QUANTITIES

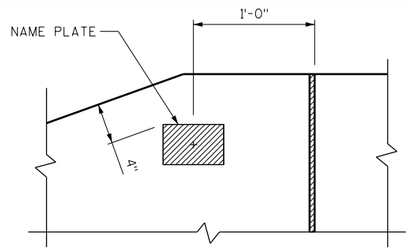
BID ITEM NO.	BID ITEMS	UNIT	TOTAL
203.0500.S	REMOVING OLD STRUCUTRE OVER WATERWAY STA. 592+02	LS	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-13-105	LS	1
210.0100	BACKFILL STRUCTURE	CY	800
502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EA	68
504.0100	CONCRETE MASONRY CULVERTS	CY	58
505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	7,500
505.0610	BAR STEEL REINFORCEMENT HS COATED CULVERTS	LB	870
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	22
606.0300	RIPRAP HEAVY	CY	40
645.0105	GEOTEXTILE FABRIC TYPE C	SY	80
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	60
	NON-BID ITEMS		
	FILLER	SIZE	3/4"

BILL OF BARS FOR BARREL

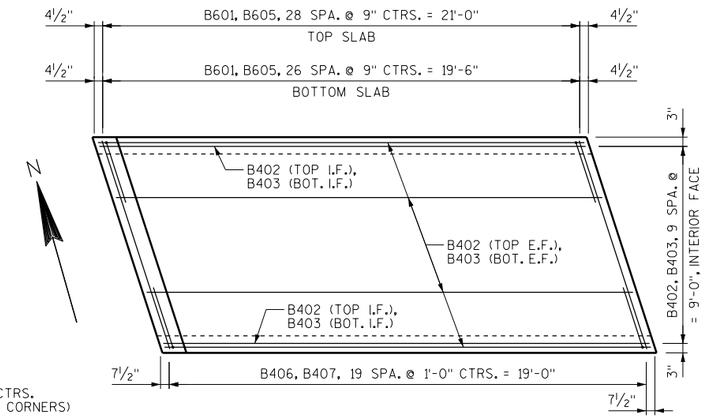
1	NO. REQ'D	LENGTH	BENT	LOCATION
B601	106	9'-7"		TOP & BOT. SLAB TRANS. I.F.
B402	14	21'-5"		TOP SLAB LONG. WEST PANEL
B403	14	19'-11"		BOT. SLAB LONG. WEST PANEL
B404	28	18'-1"		TOP & BOT. SLAB LONG. EAST PANEL
B605	212	8'-3"	X	CORNER BARS
B406	78	6'-10"		WALL VERT. I.F.
B407	78	2'-0"		WALL DOWEL I.F.
B408	16	19'-11"		WALL HORZ. WEST PANEL
B409	16	18'-1"		WALL HORZ. EAST PANEL
B310	13	2'-1"	X	INLET HEADER TIES
B311	13	2'-5"	X	OUTLET HEADER TIES
B412	4	9'-7"		HEADER HORIZ.
B513	68	2'-6"		CONST. JT. DOWEL



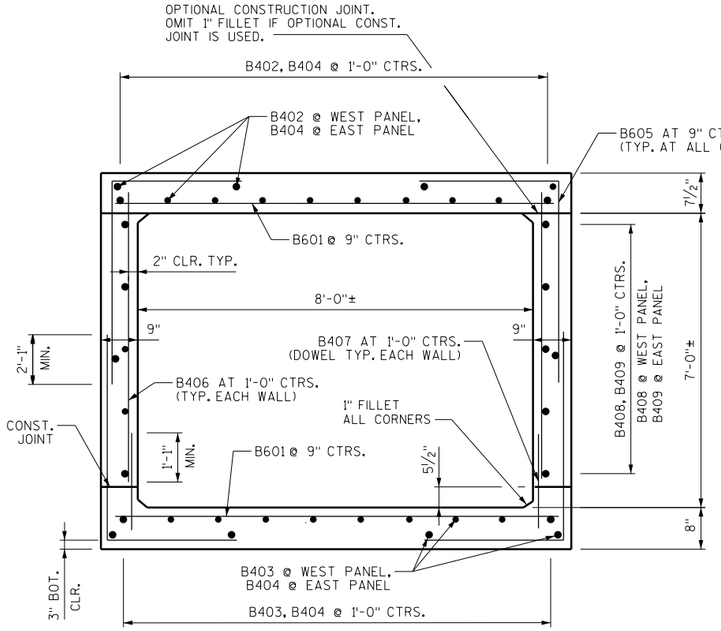
B605 B310 B311



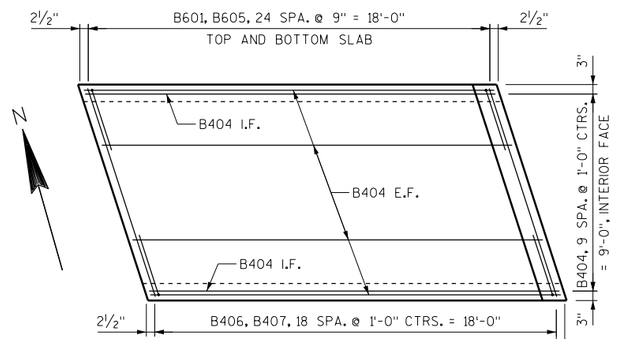
NAME PLATE LOCATION
WING 4



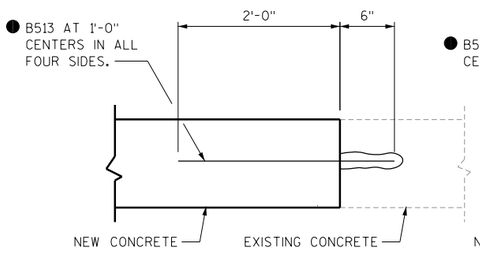
PLAN VIEW OF WEST PANEL



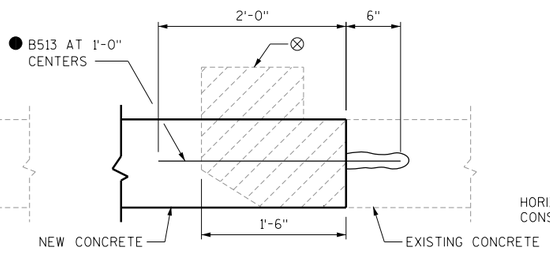
SECTION THRU BOX



PLAN VIEW OF EAST PANEL

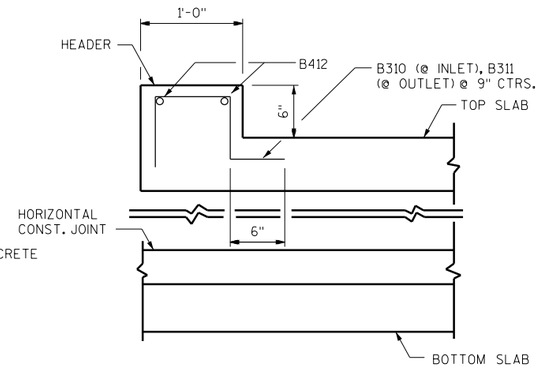


TYP. CONSTRUCTION JOINT

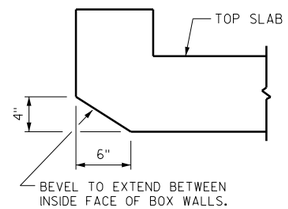


CONSTRUCTION JOINT

AT EXISTING INLET ONLY



SECTION THRU OUTLET HEADER



SECTION THRU INLET HEADER

NOTES:

E.F. DENOTES EXTERIOR FACE

I.F. DENOTES INTERIOR FACE

⊗ DEMOLISH AND REMOVE 1'-6" OF EXISTING TOP SLAB AT INLET ONLY.

● CONCRETE MASONRY ANCHORS, TYPE L (EPOXY ANCHORED), 5/8-INCH, EMBED 6" INTO SOUND CONCRETE AND SPACE AT 1'-0" CENTERS. (TYP. IN ALL WALLS AND TOP SLAB).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-13-105

DRAWN BY AJC | PLANS CK'D. MDR

BOX CULVERT DETAILS

SHEET 2 OF 5
580

8

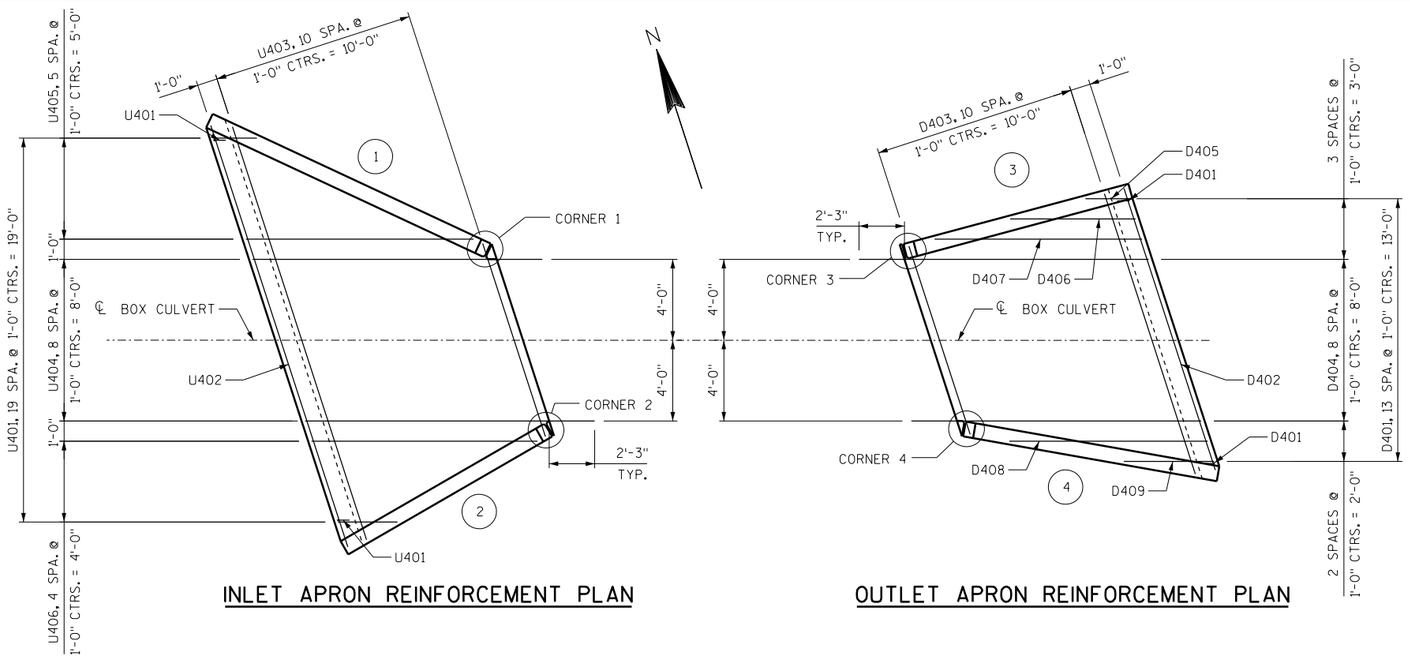
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FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\09 STRUCTURES\C-13-105\Plan\080102_bd_C13105.dgn PLOT DATE : 8/27/2014

PLOT BY : ajc

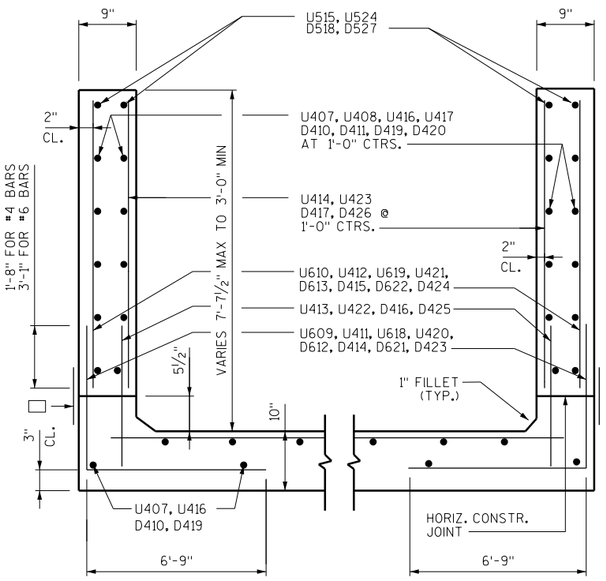
STATE PROJECT NUMBER

3070-00-73



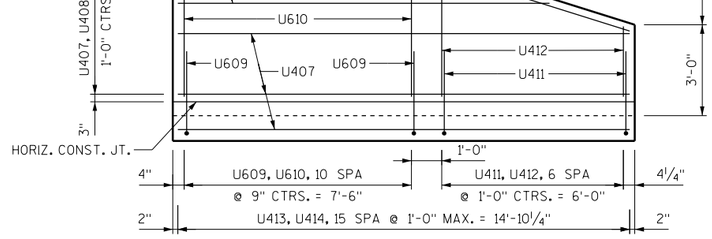
INLET APRON REINFORCEMENT PLAN

OUTLET APRON REINFORCEMENT PLAN



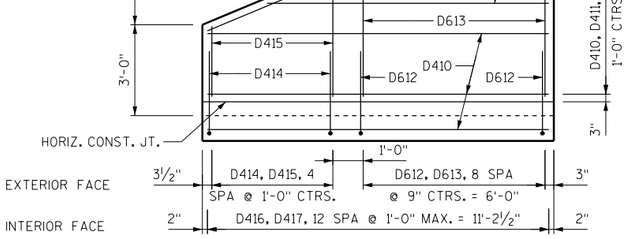
SECTION THRU WINGWALLS

☐ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZONTAL CONSTRUCTION JOINT IN WING. (TYP.)



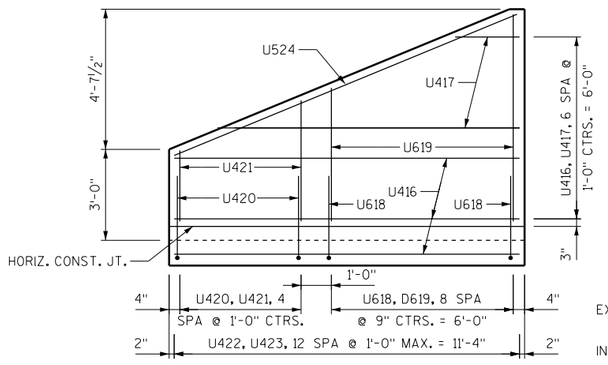
WING 1

EXTERIOR FACE



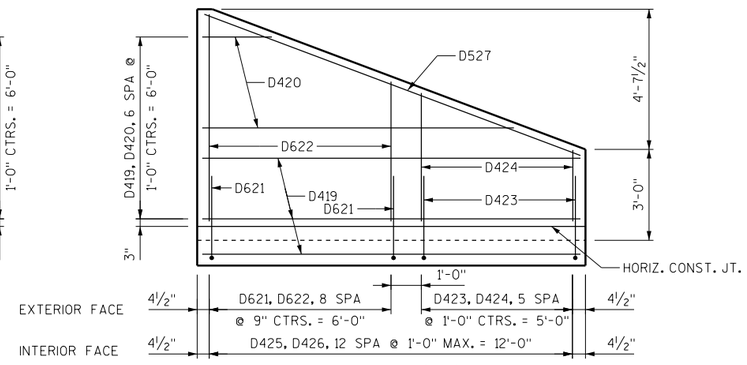
WING 3

EXTERIOR FACE



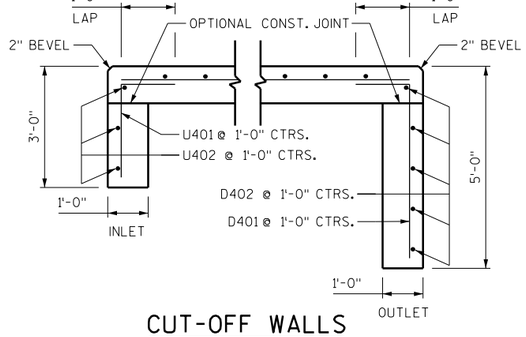
WING 2

EXTERIOR FACE



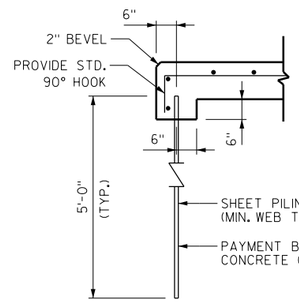
WING 4

EXTERIOR FACE



CUT-OFF WALLS

SECTION THRU WALLS



ALTERNATE CUT-OFF WALL

THE ABOVE ALTERNATE MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.

NOTE:

ALL WING ELEVATION VIEWS SHOW EXTERIOR FACE REINFORCING ONLY. INTERIOR FACE REINFORCING AND WEEP HOLES NOT SHOWN FOR CLAIRTY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-13-105

DRAWN BY AJC | PLANS CK'D. MDR

APRON DETAILS

SHFFT 3 OF 5
581

8

8

STATE PROJECT NUMBER

3070-00-73

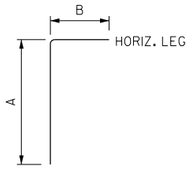
BILL OF BARS FOR INLET APRON

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
U401		20	3'-6"	X		INLET CUTOFF WALL VERT.
U402		3	21'-3"			INLET CUTOFF WALL HORIZ.
U403		11	15'-9"		X	INLET APRON TRANSVERSE
U404		9	14'-5"			INLET APRON LONG.
U405		6	6'-6"		X	INLET APRON LONG.
U406		5	7'-1"		X	INLET APRON LONG.
U407		5	14'-10"			INLET WINGWALL LONG. WING 1
U408		4	7'-6"		X	INLET WINGWALL LONG. WING 1
U609	X	11	10'-9"	X		INLET WINGWALL CONER BAR WING 1
U610		11	5'-8"		X	INLET WINGWALL VERT. E.F. WING 1
U411	X	7	9'-5"	X		INLET WINGWALL CONER BAR WING 1
U412		7	3'-3"		X	INLET WINGWALL VERT. E.F. WING 1
U413	X	16	2'-9"			INLET WINGWALL I.F. DOWEL WING 1
U414		16	4'-7"		X	INLET WINGWALL VERT. I.F. WING 1
U515		2	15'-7"			INLET WINGWALL HORIZ. TOP WING 1
U416		5	11'-3"			INLET WINGWALL LONG. WING 2
U417		4	5'-9"		X	INLET WINGWALL LONG. WING 2
U618	X	9	10'-9"	X		INLET WINGWALL CONER BAR WING 2
U619		9	5'-7"		X	INLET WINGWALL VERT. E.F. WING 2
U420	X	5	9'-5"	X		INLET WINGWALL CONER BAR WING 2
U421		5	3'-2"		X	INLET WINGWALL VERT. E.F. WING 2
U422	X	13	2'-9"			INLET WINGWALL I.F. DOWEL WING 2
U423		13	4'-7"		X	INLET WINGWALL VERT. I.F. WING 2
U524		2	12'-2"			INLET WINGWALL HORIZ. TOP WING 2

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
U403	1 SERIES OF 11	10'-0" TO 21'-6"
U405	1 SERIES OF 6	2'-1" TO 10'-11"
U406	1 SERIES OF 5	3'-0" TO 11'-2"
U408	1 SERIES OF 4	2'-8" TO 12'-4"
U610	1 SERIES OF 11	4'-6" TO 6'-10"
U412	1 SERIES OF 7	2'-4" TO 4'-2"
U414	1 SERIES OF 16	2'-4" TO 6'-10"
U417	1 SERIES OF 4	2'-1" TO 9'-5"
U619	1 SERIES OF 9	4'-4" TO 6'-10"
U421	1 SERIES OF 5	2'-4" TO 4'-0"
U423	1 SERIES OF 13	2'-4" TO 6'-10"



U401, U609, U411, U618, U420

BAR MARK	A	B
U401	2'-7"	1'-0"
U609	4'-2"	6'-9"
U411	2'-9"	6'-9"
U618	4'-2"	6'-9"
U420	2'-9"	6'-9"

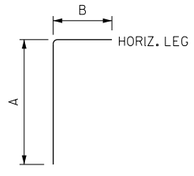
BILL OF BARS FOR OUTLET APRON

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
D401		14	5'-6"	X		OUTLET CUTOFF WALL VERT.
D402		5	14'-8"			OUTLET CUTOFF WALL HORIZ.
D403		11	12'-2"		X	OUTLET APRON TRANSVERSE
D404		9	14'-5"			OUTLET APRON LONG.
D405		1	2'-2"			OUTLET APRON LONG.
D406		1	6'-2"			OUTLET APRON LONG.
D407		1	10'-3"			OUTLET APRON LONG.
D408		1	9'-10"			OUTLET APRON LONG.
D409		1	4'-5"			OUTLET APRON LONG.
D410		5	11'-2"			OUTLET WINGWALL LONG. WING 3
D411		4	5'-8"		X	OUTLET WINGWALL LONG. WING 3
D612	X	9	10'-9"	X		OUTLET WINGWALL CONER BAR WING 3
D613		9	5'-7"		X	OUTLET WINGWALL VERT. E.F. WING 3
D414	X	5	9'-5"	X		OUTLET WINGWALL CONER BAR WING 3
D415		5	3'-2"		X	OUTLET WINGWALL VERT. E.F. WING 3
D416	X	13	2'-9"			OUTLET WINGWALL I.F. DOWEL WING 3
D417		13	4'-7"		X	OUTLET WINGWALL VERT. I.F. WING 3
D518		2	12'-1"			OUTLET WINGWALL HORIZ. TOP WING 3
D419		5	12'-4"			OUTLET WINGWALL LONG. WING 4
D420		4	6'-3"		X	OUTLET WINGWALL LONG. WING 4
D621	X	9	10'-9"	X		OUTLET WINGWALL CONER BAR WING 4
D622		9	5'-9"		X	OUTLET WINGWALL VERT. E.F. WING 4
D423	X	6	9'-5"	X		OUTLET WINGWALL CONER BAR WING 4
D424		6	3'-3"		X	OUTLET WINGWALL VERT. E.F. WING 4
D425	X	13	2'-9"			OUTLET WINGWALL I.F. DOWEL WING 4
D426		13	4'-7"		X	OUTLET WINGWALL VERT. I.F. WING 4
D527		2	13'-3"			OUTLET WINGWALL HORIZ. TOP WING 4

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

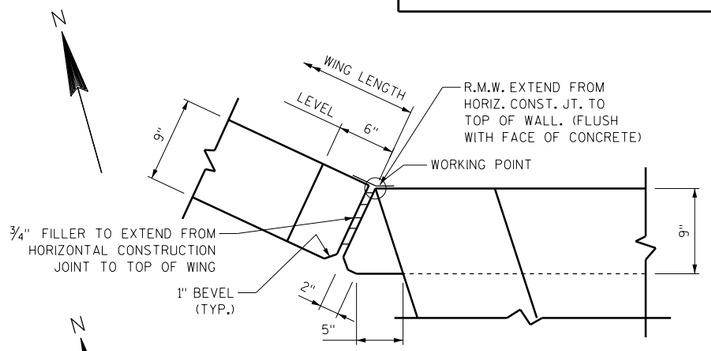
BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
D403	1 SERIES OF 11	9'-9" TO 14'-7"
D411	1 SERIES OF 4	2'-1" TO 9'-3"
D613	1 SERIES OF 9	4'-4" TO 6'-10"
D415	1 SERIES OF 5	2'-4" TO 4'-0"
D417	1 SERIES OF 13	2'-4" TO 6'-10"
D420	1 SERIES OF 4	2'-3" TO 10'-3"
D622	1 SERIES OF 9	4'-8" TO 6'-10"
D424	1 SERIES OF 6	2'-4" TO 4'-2"
D426	1 SERIES OF 13	2'-4" TO 6'-10"

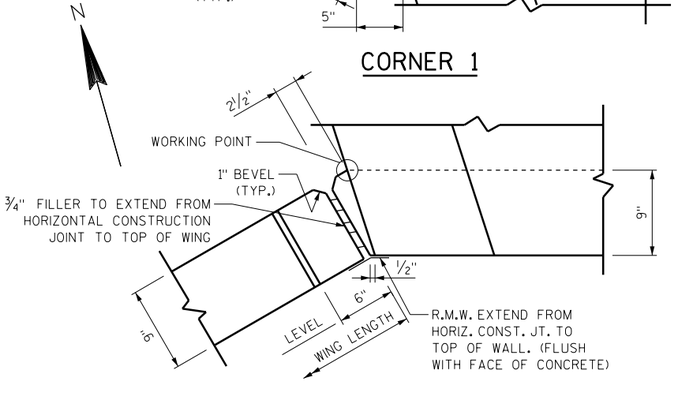


D401, D612, D414, D621, D423

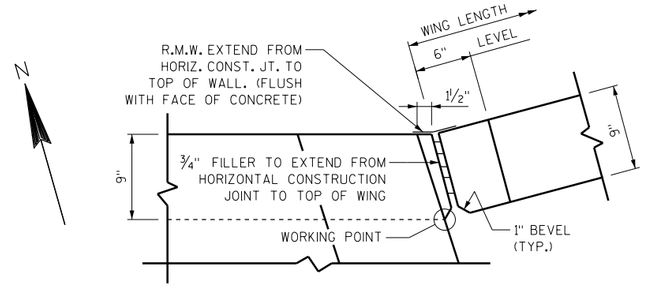
BAR MARK	A	B
D401	4'-7"	1'-0"
D612	4'-2"	6'-9"
D414	2'-9"	6'-9"
D621	4'-2"	6'-9"
D423	2'-9"	6'-9"



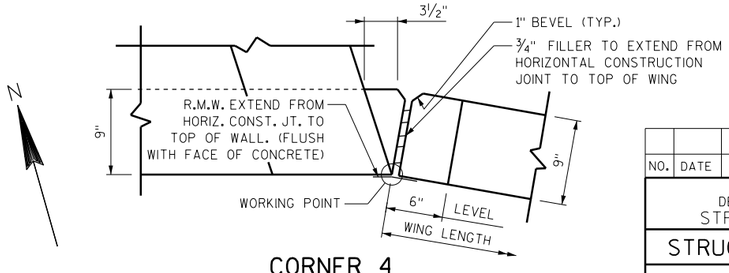
CORNER 1



CORNER 2



CORNER 3



CORNER 4

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE C-13-105

DRAWN BY AJC | PLANS CK'D. MDR

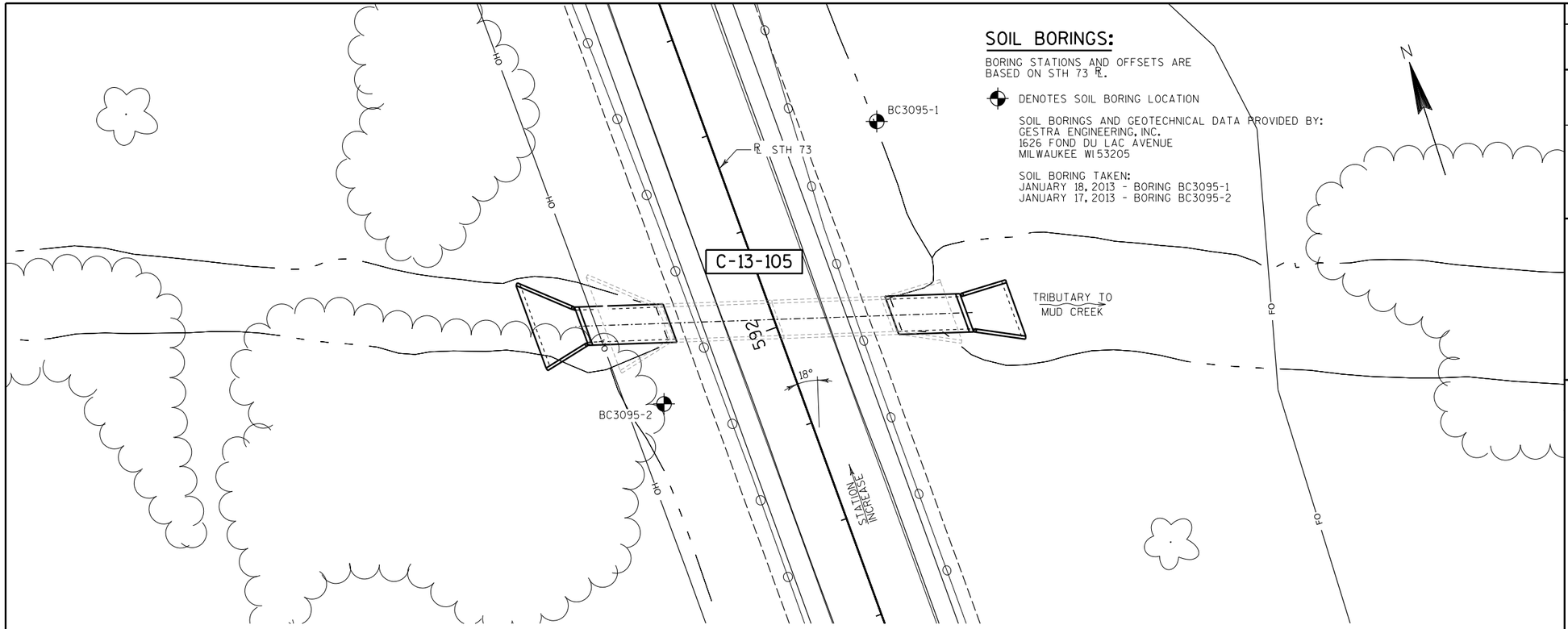
APRON DETAILS

SHEET 4 OF 5

582

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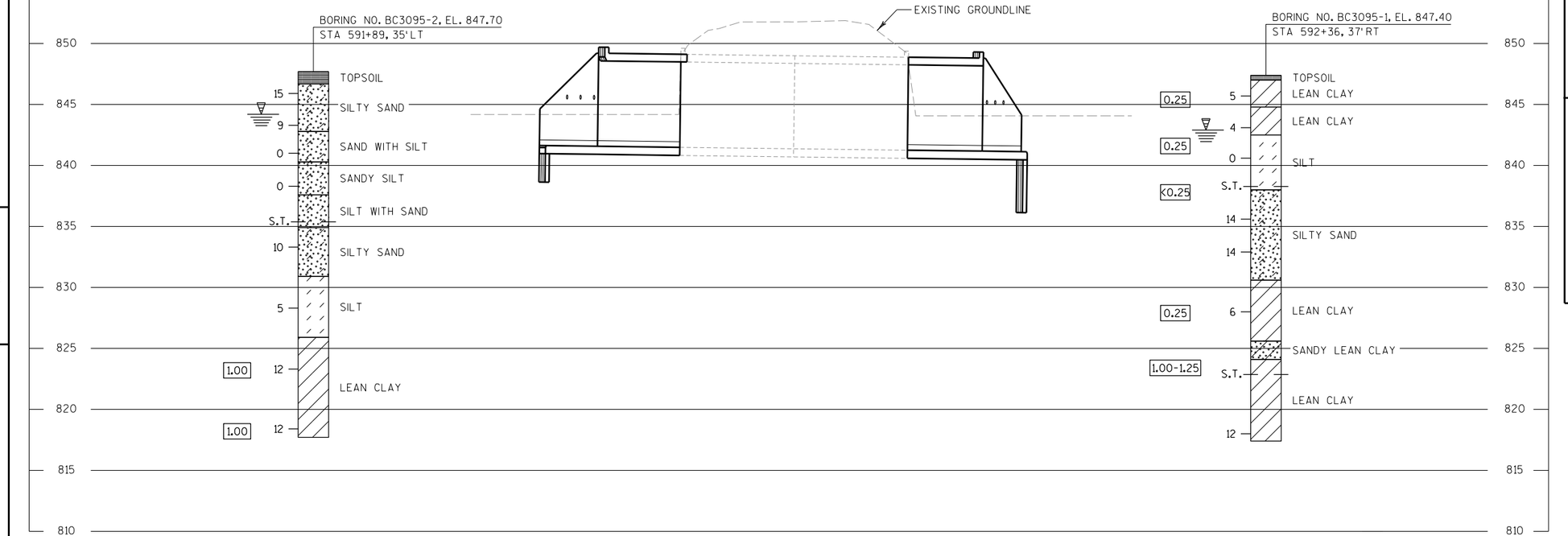
SOIL BORINGS:

BORING STATIONS AND OFFSETS ARE BASED ON STH 73 ℄.

DENOTES SOIL BORING LOCATION

SOIL BORINGS AND GEOTECHNICAL DATA PROVIDED BY:
GESTRA ENGINEERING, INC.
1626 FOND DU LAC AVENUE
MILWAUKEE WI 53205

SOIL BORING TAKEN:
JANUARY 18, 2013 - BORING BC3095-1
JANUARY 17, 2013 - BORING BC3095-2



STATE PROJECT NUMBER

3070-00-73

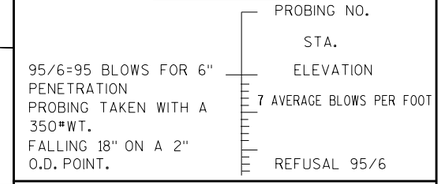
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

MATERIAL SYMBOLS

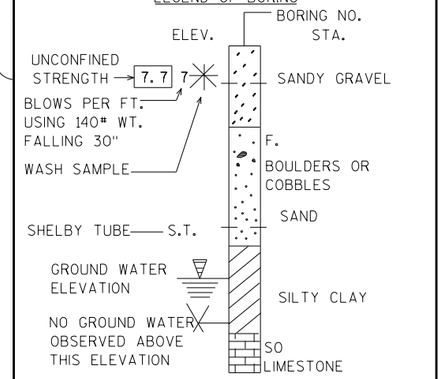
TOPSOIL, SILT, SANDSTONE, SAND, PEAT, LIMESTONE, GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



95/6=95 BLOWS FOR 6" PENETRATION
PROBING TAKEN WITH A 350#WT.
FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A O.D. X I. 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. 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 C-13-105

DRAWN BY AJC | PLANS CK'D. MDR

SUBSURFACE EXPLORATION

SHEET 5 OF 5
583

8

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STH 73 (STAGE 3) STA 584+25 - 598+00

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
584+25	33	9	95	219	43	0	0	0	0	0	0	0	0	0	0	0	0	0
585+00	47	9	72	205	45	111	25	232	589	122	111	25	-274	883	159	353	98	360
586+00	60	9	70	195	47	198	33	262	741	171	309	58	-673	1,994	382	798	235	924
586+90	74	9	45	191	48	224	30	192	643	159	533	88	-1,073	2,958	588	1,183	362	1,518
587+00	75	9	47	191	48	28	3	17	71	18	561	92	-1,123	3,064	611	1,226	376	1,592
588+00	81	9	154	276	48	290	33	372	865	177	851	125	-1,484	4,362	841	1,745	518	2,210
588+25	84	9	176	246	50	77	8	153	242	45	928	133	-1,519	4,725	900	1,890	554	2,314
589+00	89	9	37	238	47	241	25	297	672	135	1,169	158	-1,787	5,733	1,075	2,293	661	2,798
589+50	94	9	14	169	46	170	17	48	376	86	1,339	175	-2,096	6,298	1,187	2,519	730	3,260
590+00	101	9	17	141	49	180	17	28	287	88	1,519	192	-2,363	6,728	1,301	2,691	801	3,690
590+35	106	9	6	114	49	134	12	15	165	63	1,652	203	-2,532	6,975	1,383	2,790	851	3,981
591+00	105	9	9	263	48	254	22	18	454	117	1,906	225	-2,966	7,656	1,535	3,062	945	4,647
591+40	104	9	21	287	51	155	13	22	407	73	2,061	238	-3,317	8,267	1,631	3,307	1,003	5,139
591+80	98	9	130	297	58	150	13	112	432	81	2,210	252	-3,582	8,915	1,736	3,566	1,068	5,541
592+00	96	9	192	298	59	72	7	119	220	44	2,282	258	-3,642	9,246	1,792	3,698	1,103	5,666
592+02	96	9	199	299	63	7	1	15	22	5	2,289	259	-3,645	9,279	1,798	3,712	1,107	5,676
592+33	87	9	122	221	57	106	10	185	300	69	2,395	269	-3,708	9,730	1,888	3,892	1,162	5,834
592+86	73	9	49	176	48	157	18	168	389	103	2,553	287	-3,893	10,313	2,022	4,125	1,244	6,159
593+00	72	9	53	170	50	37	5	26	88	25	2,590	292	-3,951	10,446	2,055	4,178	1,264	6,250
593+93	56	9	83	202	44	222	31	235	643	163	2,812	323	-4,303	11,411	2,267	4,564	1,395	6,792
594+00	54	9	85	207	44	14	2	21	51	11	2,826	325	-4,326	11,488	2,281	4,595	1,404	6,827
595+00	18	9	84	135	37	134	33	312	633	150	2,959	358	-4,560	12,437	2,476	4,975	1,524	7,161
596+00	25	9	87	158	17	81	33	350	543	101	3,040	392	-4,632	13,251	2,608	5,301	1,605	7,280
596+53	32	9	75	249	0	56	18	177	399	17	3,096	409	-4,727	13,850	2,630	5,540	1,619	7,414
597+00	30	9	100	257	0	53	16	168	440	0	3,149	425	-4,847	14,510	2,630	5,804	1,619	7,571
598+00	25	9	25	259	0	0	33	233	956	0	3,149	458	-5,272	15,944	2,630	6,378	1,619	7,963
				COLUMN TOTALS		3,149	458	3,778	10,629	2,023								

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	SALVAGED/UNUSABLE PAVEMENT MATERIAL IS NOT SHOWN ON CROSS SECTIONS; REMOVE AND WASTE EXISTING AND TEMPORARY PAVEMENTS PRESENT IN BOTH CUT AND FILL SECTIONS; SALVAGED/UNUSABLE PAVEMENT MATERIAL INCLUDES BOTH CONCRETE AND ASPHALTIC PAVEMENTS
3 - FILL	INCLUDES BACKFILL OF SALVAGED/UNUSABLE PAVEMENT MATERIAL EXCAVATION AREAS TO BE REMOVED BELOW THE ULTIMATE SUBGRADE IN FILL SECTIONS
4 - EXPANDED FILL	((UNEXPANDED FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL) * FILL FACTOR)
5 - EXPANDED MARSH BACKFILL	(MARSH EXCAVATION * EXPANDED MARSH BACKFILL FACTOR)
6 - EXPANDED EBS BACKFILL	(EBS EXCAVATION * EXPANDED EBS BACKFILL FACTOR)
7 - REDUCED MARSH IN FILL	(EXCAVATION MARSH * REDUCED MARSH FILL FACTOR)
8 - REDUCED EBS IN FILL	(EBS EXCAVATION * REDUCED EBS FILL FACTOR)
9 - MASS ORDINATE	((CUT) - (EXPANDED FILL) - (SALVAGED/UNUSABLE PAVEMENT MATERIAL)); PLUS INDICATES AN EXCESS OF MATERIAL; MINUS INDICATES A SHORTAGE OF MATERIAL

STH 73 (STAGE 2) STA 598+00 - STA 625+55

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
598+00	25	9	25	259	0	0	33	233	956	0	0	0	0	0	0	574	0	0
598+75	55	0	7	120	0	111	13	45	527	0	111	13	-338	790	0	890	0	437
599+00	62	0	6	121	0	54	0	6	112	0	166	13	-414	958	0	957	0	568
599+50	54	0	12	127	0	107	0	17	230	0	273	13	-565	1,302	0	1,095	0	825
600+00	34	0	31	133	0	81	0	40	241	0	354	13	-696	1,663	0	1,239	0	1,037
601+00	12	0	133	387	0	84	0	302	963	0	438	13	-1,041	3,108	0	1,817	0	1,466
602+00	6	0	309	439	0	32	0	817	1,529	0	470	13	-1,166	5,402	0	2,734	0	1,623
602+78	17	0	365	462	0	33	0	973	1,300	0	502	13	-926	7,352	0	3,515	0	1,416
603+00	21	0	343	462	0	15	0	288	377	0	518	13	-848	7,917	0	3,740	0	1,353
603+30	38	0	313	462	0	32	0	358	505	0	550	13	-779	8,674	0	4,043	0	1,316
604+00	29	0	655	530	0	87	0	1,264	1,294	0	637	13	-170	10,615	0	4,820	0	794
604+11	24	0	770	548	0	11	0	301	227	0	648	13	36	10,957	0	4,956	0	600
604+38	16	0	1,081	602	0	20	0	912	566	0	668	13	751	11,805	0	5,296	0	-95
605+00	7	0	1,707	700	0	26	0	3,201	1,494	0	693	13	3,632	14,047	0	6,192	0	-2,951
605+04	6	0	1,745	705	0	1	0	256	104	0	694	13	3,874	14,203	0	6,255	0	-3,192
605+18	5	0	1,910	725	0	3	0	947	370	0	697	13	4,780	14,759	0	6,477	0	-4,095
605+30	5	0	2,040	738	0	2	0	879	325	0	699	13	5,634	15,247	0	6,672	0	-4,947
605+71	19	0	2,264	764	0	18	0	3,268	1,140	0	717	13	8,863	16,957	0	7,356	0	-8,159
605+98	31	0	2,352	777	0	25	0	2,307	770	0	742	13	11,170	18,112	0	7,819	0	-10,440
606+00	32	0	2,361	778	0	2	0	175	58	0	744	13	11,346	18,199	0	7,853	0	-10,614
606+30	44	0	2,438	791	0	42	0	2,666	872	0	786	13	14,024	19,507	0	8,376	0	-13,251
607+00	46	0	2,582	818	0	117	0	6,507	2,086	0	903	13	20,594	22,635	0	9,628	0	-19,704
607+75	19	0	2,800	849	0	90	0	7,475	2,316	0	993	13	28,201	26,109	0	11,017	0	-27,220
608+00	16	0	2,848	857	0	17	0	2,614	790	0	1,010	13	30,877	27,294	0	11,491	0	-29,879
608+14	15	0	2,874	859	0	8	0	1,495	449	0	1,018	13	32,409	27,967	0	11,760	0	-31,403
608+42	9	0	2,977	871	0	12	0	3,065	906	0	1,031	13	35,561	29,326	0	12,304	0	-34,543
608+54	0	0	2,386	876	0	2	0	1,163	379	0	1,032	13	36,730	29,894	0	12,531	0	-35,710
609+00	0	0	2,459	980	0	0	0	4,118	1,577	0	1,032	13	40,694	32,261	0	13,478	0	-39,674
609+90	0	0	2,745	1,009	0	0	0	8,711	3,330	0	1,032	13	49,086	37,255	0	15,476	0	-48,066
610+00	0	0	2,774	1,011	0	0	0	981	359	0	1,032	13	50,043	37,794	0	15,691	0	-49,023
610+46	0	0	3,644	936	0	0	0	5,481	1,662	0	1,032	13	55,647	40,288	0	16,689	0	-54,627
610+64	79	0	3,646	929	0	26	0	2,398	613	0	1,059	13	58,184	41,208	0	17,057	0	-57,138
610+86	116	0	3,619	917	0	81	0	2,992	760	0	1,139	13	61,354	42,348	0	17,513	0	-60,228
611+00	148	0	3,586	907	0	68	0	1,853	469	0	1,207	13	63,319	43,052	0	17,794	0	-62,124
611+44	150	0	3,435	876	0	242	0	5,704	1,449	0	1,449	13	69,362	45,225	0	18,664	0	-67,925
611+71	192	0	3,375	859	0	172	0	3,421	872	0	1,621	13	72,985	46,533	0	19,187	0	-71,376
612+00	194	0	3,377	856	0	207	0	3,626	921	0	1,828	13	76,827	47,914	0	19,739	0	-75,011
612+24	205	0	3,462	868	0	176	0	3,023	762	0	2,004	13	80,034	49,057	0	20,196	0	-78,042
612+70	101	0	3,657	888	0	261	0	6,081	1,500	0	2,265	13	86,511	51,307	0	21,096	0	-84,258
613+00	39	0	3,687	903	0	78	0	4,080	995	0	2,343	13	90,865	52,799	0	21,693	0	-88,534
613+40	26	0	3,636	901	0	48	0	5,424	1,336	0	2,392	13	96,642	54,803	0	22,495	0	-94,263
613+70	44	0	3,502	884	0	39	0	3,965	992	0	2,431	13	100,855	56,291	0	23,090	0	-98,437
613+84	47	0	3,452	885	0	23	0	1,786	454	0	2,454	13	102,747	56,972	0	23,362	0	-100,305
614+00	53	0	3,352	873	0	30	0	2,032	525	0	2,484	13	104,894	57,760	0	23,678	0	-102,422
615+00	140	0	2,830	680	0	357	0	11,448	2,877	0	2,841	13	117,046	62,075	0	25,403	0	-114,217
615+17	187	0	2,740	0	0	105	0	1,797	219	0	2,946	13	119,127	62,404	0	25,535	0	-116,194
616+00	214	0	2,798	0	0	612	0	8,469	0	0	3,558	13	129,714	62,404	0	25,535	0	-126,168
617+00	561	0	1,518	0	0	1,435	0	7,992	0	0	4,993	13	139,704	62,404	0	25,535	0	-134,724
617+40	614	0	1,113	0	0	871	0	1,949	0	0	5,864	13	142,141	62,404	0	25,535	0	-136,289
618+00	670	0	595	0	0	1,427	0	1,898	0	0	7,291	13	144,513	62,404	0	25,535	0	-137,235

CONTINUED ON NEXT SHEET

STH 73 (STAGE 2) STA 598+00 - STA 625+55 (CONT.)

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
618+00	670	0	595	0	0	1,427	0	1,898	0	0	7,291	46	144,087	63,838	0	25,535	0	-137,268
618+40	701	0	364	0	0	1,016	0	710	0	0	8,306	46	144,975	63,838	0	25,535	0	-136,715
619+00	595	0	393	0	0	1,440	0	841	0	0	9,746	46	146,027	63,838	0	25,535	0	-136,326
620+00	416	0	597	0	0	1,871	0	1,834	0	0	11,618	46	148,319	63,838	0	25,535	0	-136,747
621+00	407	0	66	0	0	1,523	0	1,229	0	0	13,141	46	149,855	63,838	0	25,535	0	-136,760
621+25	518	0	21	0	0	428	0	40	0	0	13,569	46	149,906	63,838	0	25,535	0	-136,382
621+50	655	0	2	0	0	543	0	11	0	0	14,112	46	149,919	63,838	0	25,535	0	-135,853
621+80	877	0	0	0	0	845	0	1	0	0	14,957	46	149,921	63,838	0	25,535	0	-135,009
622+00	998	0	0	0	0	701	0	0	0	0	15,659	46	149,921	63,838	0	25,535	0	-134,308
622+50	919	0	0	0	0	1,775	0	0	0	0	17,434	46	149,921	63,838	0	25,535	0	-132,533
623+00	637	0	36	0	0	1,441	0	33	0	0	18,875	46	149,962	63,838	0	25,535	0	-131,133
623+15	606	0	90	0	0	342	0	35	0	0	19,217	46	150,005	63,838	0	25,535	0	-130,834
623+50	429	0	256	0	0	673	0	225	0	0	19,890	46	150,287	63,838	0	25,535	0	-130,442
623+87	246	0	264	0	0	465	0	358	0	0	20,355	46	150,735	63,838	0	25,535	0	-130,426
624+00	209	0	177	0	0	108	0	105	0	0	20,463	46	150,865	63,838	0	25,535	0	-130,448
624+17	183	0	197	0	0	124	0	118	0	0	20,586	46	151,013	63,838	0	25,535	0	-130,472
624+57	243	0	189	0	0	316	0	286	0	0	20,902	46	151,370	63,838	0	25,535	0	-130,513
624+75	309	0	142	0	0	183	0	110	0	0	21,085	46	151,507	63,838	0	25,535	0	-130,467
625+00	547	0	71	0	0	398	0	99	0	0	21,484	46	151,631	63,838	0	25,535	0	-130,193
625+50	1,324	0	104	0	0	1,732	0	162	0	0	23,216	46	151,833	63,838	0	25,535	0	-128,663
625+55	1,339	0	97	0	0	240	0	18	0	0	23,456	46	151,856	63,838	0	25,535	0	-128,445
COLUMN TOTALS						23,456	46	147,020	42,559	0								

STH 73 LT & RT (STAGE 4) STA 625+55 - 637+15

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
625+55	1,339	14	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
626+00	1,537	14	66	0	0	2,403	0	0	0	0	2,403	0	0	0	0	0	0	2,403
626+20	1,582	14	86	0	0	1,144	0	55	0	0	3,547	0	69	0	0	0	0	3,477
626+58	1,590	14	62	0	0	2,244	20	104	0	0	5,791	20	199	0	0	0	0	5,571
626+78	1,679	14	13	0	0	1,211	10	28	0	0	7,002	30	234	0	0	0	0	6,738
627+00	1,837	14	0	0	0	1,433	11	5	0	0	8,434	42	240	0	0	0	0	8,152
627+42	2,222	14	0	0	0	3,172	22	0	0	0	11,606	63	240	0	0	0	0	11,302
628+00	2,434	14	0	0	0	4,984	30	0	0	0	16,590	93	240	0	0	0	0	16,256
628+17	2,466	14	0	0	0	1,524	9	0	0	0	18,114	102	240	0	0	0	0	17,772
629+00	2,685	14	0	0	0	7,937	43	0	0	0	26,051	145	240	0	0	0	0	25,665
630+00	2,263	20	0	0	0	9,164	63	0	0	0	35,215	208	240	0	0	0	0	34,766
630+98	2,533	20	0	0	0	8,703	73	0	0	0	43,918	281	240	0	0	0	0	43,397
631+00	2,535	20	0	0	0	188	1	0	0	0	44,105	282	240	0	0	0	0	43,583
631+40	2,480	20	0	0	0	3,715	30	0	0	0	47,820	312	240	0	0	0	0	47,268
632+00	2,486	14	0	0	0	5,518	38	0	0	0	53,338	350	240	0	0	0	0	52,748
633+00	2,448	14	0	0	0	9,137	52	0	0	0	62,476	402	240	0	0	0	0	61,834
633+05	2,452	14	0	0	0	446	3	0	0	0	62,922	404	240	0	0	0	0	62,278
633+73	2,493	14	0	0	0	6,234	35	0	0	0	69,156	439	240	0	0	0	0	68,477
634+00	2,424	14	0	0	0	2,459	14	0	0	0	71,615	453	240	0	0	0	0	70,921
634+15	2,436	14	0	0	0	1,368	8	0	0	0	72,983	461	240	0	0	0	0	72,281
634+65	3,171	14	0	0	0	5,192	26	0	0	0	78,175	487	240	0	0	0	0	77,448
634+80	3,210	14	0	0	0	1,749	8	0	0	0	79,924	495	240	0	0	0	0	79,189
635+00	3,410	14	0	0	0	2,452	10	0	0	0	82,376	505	240	0	0	0	0	81,630
635+53	4,941	14	0	0	0	8,196	27	0	0	0	90,572	533	240	0	0	0	0	89,799
636+00	6,090	14	0	0	0	9,601	24	0	0	0	100,172	557	240	0	0	0	0	99,375
636+40	6,542	14	0	0	0	9,357	21	0	0	0	109,529	578	240	0	0	0	0	108,711
636+78	2,783	14	0	0	0	6,562	20	0	0	0	116,091	598	240	0	0	0	0	115,253
636+80	2,637	14	0	0	0	181	1	0	0	0	116,272	599	240	0	0	0	0	115,433
636+85	2,031	14	0	0	0	449	3	0	0	0	116,721	601	240	0	0	0	0	115,879
637+00	1,752	14	0	0	0	1,051	8	0	0	0	117,772	609	240	0	0	0	0	116,922
637+15	1,442	14	0	0	0	887	8	0	0	0	118,659	617	240	0	0	0	0	117,802
COLUMN TOTALS						118,659	617	192	0	0								

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STH 73 LT (STAGE 2) 637+15 - 655+10

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
637+15	782	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
637+35	601	0	0	0	0	507	0	0	0	0	507	0	0	0	0	0	0	507
638+00	144	0	0	0	0	899	0	0	0	0	1,406	0	0	0	0	0	0	1,406
638+03	127	0	0	0	0	16	0	0	0	0	1,422	0	0	0	0	0	0	1,422
638+23	27	0	0	0	0	57	0	0	0	0	1,479	0	0	0	0	0	0	1,479
638+40	0	0	13	0	0	9	0	4	0	0	1,488	0	5	0	0	0	0	1,483
638+71	180	0	140	0	0	102	0	86	0	0	1,590	0	113	0	0	0	0	1,477
638+80	308	0	146	0	0	84	0	49	0	0	1,673	0	174	0	0	0	0	1,499
639+00	457	0	138	0	0	283	0	105	0	0	1,956	0	305	0	0	0	0	1,652
639+65	273	0	229	0	0	878	0	442	0	0	2,835	0	857	0	0	0	0	1,978
639+73	232	0	249	0	0	75	0	71	0	0	2,909	0	946	0	0	0	0	1,964
640+00	97	0	310	0	0	165	0	280	0	0	3,074	0	1,295	0	0	0	0	1,779
640+23	58	0	306	0	0	66	0	263	0	0	3,140	0	1,623	0	0	0	0	1,517
641+00	30	0	300	0	0	125	0	864	0	0	3,265	0	2,703	0	0	0	0	562
642+00	25	0	315	0	0	102	0	1,138	0	0	3,367	0	4,125	0	0	0	0	-759
642+20	31	0	314	0	0	21	0	233	0	0	3,387	0	4,416	0	0	0	0	-1,029
642+60	54	0	281	0	0	63	0	441	0	0	3,450	0	4,967	0	0	0	0	-1,517
642+75	29	0	329	0	0	23	0	169	0	0	3,473	0	5,179	0	0	0	0	-1,705
642+84	24	0	380	0	0	9	0	118	0	0	3,482	0	5,327	0	0	0	0	-1,844
643+00	38	0	262	0	0	18	0	190	0	0	3,501	0	5,564	0	0	0	0	-2,064
644+00	95	0	19	0	0	246	0	520	0	0	3,747	0	6,215	0	0	0	0	-2,468
644+19	178	0	9	0	0	98	0	10	0	0	3,845	0	6,227	0	0	0	0	-2,382
645+00	17	0	21	0	0	291	0	44	0	0	4,136	0	6,282	0	0	0	0	-2,146
646+00	10	0	38	0	0	51	0	108	0	0	4,187	0	6,416	0	0	0	0	-2,229
647+00	16	0	44	0	0	49	0	152	0	0	4,237	0	6,606	0	0	0	0	-2,369
648+00	6	0	7	0	0	41	0	95	0	0	4,278	0	6,724	0	0	0	0	-2,446
649+00	125	0	0	0	0	243	0	13	0	0	4,521	0	6,740	0	0	0	0	-2,219
649+62	190	0	0	0	0	359	0	0	0	0	4,880	0	6,740	0	0	0	0	-1,860
650+00	201	0	0	0	0	278	0	0	0	0	5,158	0	6,740	0	0	0	0	-1,582
651+00	172	0	0	0	0	691	0	0	0	0	5,849	0	6,740	0	0	0	0	-891
651+91	32	0	0	0	0	343	0	0	0	0	6,192	0	6,740	0	0	0	0	-548
652+00	29	0	0	0	0	10	0	0	0	0	6,202	0	6,740	0	0	0	0	-538
652+66	16	0	0	0	0	55	0	0	0	0	6,257	0	6,740	0	0	0	0	-483
653+00	19	0	0	0	0	22	0	0	0	0	6,279	0	6,740	0	0	0	0	-461
653+26	35	0	0	0	0	26	0	0	0	0	6,305	0	6,740	0	0	0	0	-435
653+51	0	0	0	0	0	16	0	0	0	0	6,321	0	6,740	0	0	0	0	-419
653+76	0	0	0	0	0	0	0	0	0	0	6,321	0	6,740	0	0	0	0	-419
654+00	0	0	0	0	0	0	0	0	0	0	6,321	0	6,740	0	0	0	0	-419
654+98	0	0	0	0	0	0	0	0	0	0	6,321	0	6,740	0	0	0	0	-419
655+00	0	0	0	0	0	0	0	0	0	0	6,321	0	6,740	0	0	0	0	-419
655+10	0	0	0	0	0	0	0	0	0	0	6,321	0	6,740	0	0	0	0	-419
				COLUMN TOTALS		6,321	0	5,392	0	0								

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STH 73 (STAGE 4) 637+15 - 655+10

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
637+15	660	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
637+35	567	14	0	0	0	450	0	0	0	0	450	0	0	0	0	0	0	450
638+00	399	14	0	0	0	1,166	34	0	0	0	1,616	34	0	0	0	0	0	1,582
638+03	388	14	0	0	0	47	2	0	0	0	1,662	35	0	0	0	0	0	1,627
638+23	338	14	0	0	34	269	10	0	0	13	1,931	46	-13	0	16	0	10	1,898
638+40	400	14	72	0	105	232	9	23	0	44	2,164	55	-28	0	73	0	45	2,137
638+71	348	14	68	0	81	423	16	79	0	105	2,587	70	-34	0	210	0	129	2,550
638+80	335	14	57	0	84	117	5	21	0	28	2,704	75	-35	0	246	0	152	2,664
639+00	297	14	52	0	83	234	10	41	0	62	2,938	86	-47	0	327	0	201	2,899
639+65	199	14	71	0	81	597	34	148	0	198	3,535	119	-60	0	585	0	360	3,475
639+73	189	14	78	0	80	58	4	22	0	24	3,592	124	-56	0	616	0	379	3,525
640+00	160	14	92	0	76	175	14	85	0	78	3,767	138	-28	0	717	0	441	3,657
640+23	132	14	108	0	76	124	12	85	0	65	3,891	149	14	0	801	0	493	3,728
641+00	83	14	143	0	82	305	40	358	0	225	4,197	189	237	0	1,094	0	673	3,770
642+00	53	14	220	0	67	251	52	699	0	275	4,448	241	836	0	1,452	0	893	3,371
642+20	53	14	232	0	64	39	10	173	0	48	4,487	252	1,003	0	1,514	0	932	3,232
642+60	61	14	260	0	57	84	21	374	0	90	4,571	272	1,381	0	1,631	0	1,004	2,917
642+75	71	14	310	0	55	37	8	162	0	31	4,608	280	1,553	0	1,671	0	1,029	2,774
642+84	73	14	323	0	55	24	5	108	0	18	4,632	285	1,670	0	1,695	0	1,043	2,677
643+00	60	14	284	0	55	39	8	184	0	33	4,671	293	1,868	0	1,738	0	1,069	2,510
644+00	27	14	136	0	72	160	52	804	0	236	4,831	345	2,637	0	2,044	0	1,258	1,849
644+19	30	14	124	0	78	20	10	93	0	54	4,851	355	2,700	0	2,114	0	1,301	1,796
645+00	47	14	122	0	111	114	42	368	0	282	4,965	397	2,877	0	2,481	0	1,527	1,691
646+00	78	14	195	0	101	232	52	586	0	393	5,197	449	3,218	0	2,991	0	1,841	1,531
647+00	99	14	167	0	90	329	52	670	0	354	5,526	500	3,701	0	3,452	0	2,124	1,325
648+00	106	14	108	0	97	380	52	509	0	348	5,906	552	3,989	0	3,904	0	2,402	1,364
649+00	134	14	46	0	100	443	52	285	0	366	6,349	604	3,979	0	4,380	0	2,696	1,765
649+62	149	14	28	0	98	322	32	85	0	227	6,671	636	3,859	0	4,675	0	2,877	2,176
650+00	155	14	12	0	102	216	20	29	0	143	6,887	656	3,753	0	4,860	0	2,991	2,478
651+00	200	14	0	0	101	658	52	23	0	376	7,544	708	3,405	0	5,349	0	3,292	3,432
651+91	175	14	0	0	98	633	47	0	0	335	8,177	755	3,070	0	5,784	0	3,559	4,352
652+00	175	14	0	0	98	58	5	0	0	33	8,235	760	3,038	0	5,826	0	3,585	4,438
652+66	165	14	1	0	98	415	34	2	0	239	8,650	794	2,800	0	6,137	0	3,777	5,056
653+00	197	14	1	0	99	227	18	1	0	124	8,878	812	2,678	0	6,299	0	3,876	5,388
653+26	155	14	6	0	93	169	13	3	0	93	9,047	825	2,589	0	6,419	0	3,950	5,633
653+51	198	14	8	0	90	164	13	6	0	85	9,211	838	2,513	0	6,529	0	4,018	5,860
653+76	197	14	7	0	88	183	13	7	0	82	9,394	851	2,439	0	6,636	0	4,084	6,104
654+00	188	14	8	0	86	171	12	6	0	77	9,565	863	2,370	0	6,737	0	4,146	6,332
654+98	166	14	8	0	78	641	51	29	0	299	10,206	914	2,107	0	7,126	0	4,385	7,185
655+00	168	14	9	0	78	12	1	1	0	6	10,219	915	2,102	0	7,133	0	4,390	7,202
655+10	173	14	10	0	78	63	5	3	0	29	10,282	920	2,077	0	7,171	0	4,413	7,284
COLUMN TOTALS						10,282	920	6,074	0	5,516								

STH 73 (STAGE 2) (INFILTRATION BASIN) STA 610+64 - 621+80

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
610+64	1,403	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
610+86	2,129	0	0	0	0	1,446	0	7	0	0	1,446	0	8	0	0	0	0	1,438
611+00	2,448	0	0	0	0	1,177	0	0	0	0	2,623	0	8	0	0	0	0	2,615
611+44	3,471	0	0	0	0	4,809	0	0	0	0	7,432	0	8	0	0	0	0	7,424
611+71	3,955	0	0	0	0	3,731	0	0	0	0	11,163	0	8	0	0	0	0	11,155
612+00	4,233	0	0	0	0	4,397	0	0	0	0	15,561	0	8	0	0	0	0	15,552
612+24	4,219	0	0	0	0	3,736	0	0	0	0	19,297	0	8	0	0	0	0	19,288
612+70	3,531	0	0	0	0	6,620	0	0	0	0	25,917	0	8	0	0	0	0	25,908
613+00	2,774	0	0	0	0	3,503	0	0	0	0	29,419	0	8	0	0	0	0	29,411
613+40	2,071	0	0	0	0	3,589	0	0	0	0	33,008	0	8	0	0	0	0	33,000
613+70	1,634	0	0	0	0	2,058	0	0	0	0	35,067	0	8	0	0	0	0	35,058
613+84	1,423	0	0	0	0	785	0	0	0	0	35,852	0	8	0	0	0	0	35,843
614+00	1,315	0	0	0	0	818	0	0	0	0	36,669	0	8	0	0	0	0	36,661
615+00	844	0	0	0	0	3,999	0	0	0	0	40,668	0	8	0	0	0	0	40,660
615+17	796	0	0	0	0	529	0	0	0	0	41,197	0	9	0	0	0	0	41,188
616+00	494	0	0	0	0	1,973	0	1	0	0	43,170	0	9	0	0	0	0	43,161
617+00	359	0	0	0	0	1,581	0	0	0	0	44,751	0	9	0	0	0	0	44,742
617+40	436	0	0	0	0	589	0	0	0	0	45,340	0	9	0	0	0	0	45,331
618+00	521	0	0	0	0	1,063	0	0	0	0	46,402	0	9	0	0	0	0	46,393
618+40	504	0	0	0	0	759	0	0	0	0	47,161	0	9	0	0	0	0	47,152
619+00	358	0	0	0	0	957	0	0	0	0	48,119	0	9	0	0	0	0	48,109
620+00	107	0	0	0	0	860	0	0	0	0	48,978	0	9	0	0	0	0	48,969
621+00	48	0	0	0	0	287	0	0	0	0	49,265	0	9	0	0	0	0	49,256
621+25	42	0	0	0	0	42	0	0	0	0	49,307	0	9	0	0	0	0	49,298
621+50	35	0	0	0	0	36	0	0	0	0	49,343	0	9	0	0	0	0	49,334
621+80	32	0	0	0	0	37	0	0	0	0	49,381	0	9	0	0	0	0	49,371
				COLUMN TOTALS		49,381	0	7	0	0								

STH 73 (STAGE 3) EXISTING STH 73 SOUTH LEG REMOVAL 598+00 - 603+00

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
598+00	119	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
599+00	171	9	0	0	0	537	33	0	0	0	537	33	0	0	0	0	0	503
600+00	244	9	0	0	0	768	33	0	0	0	1,305	67	0	0	0	0	0	1,238
601+00	488	9	0	0	0	1,354	33	0	0	0	2,659	100	0	0	0	0	0	2,559
602+00	767	9	0	0	0	2,324	33	0	0	0	4,983	133	0	0	0	0	0	4,849
603+00	1,165	9	0	0	0	3,578	33	0	0	0	8,561	167	0	0	0	0	0	8,395
				COLUMN TOTALS		8,561	167	0	0	0								

USH 12/18 (STAGE 3) STA 628+50'B' - 702+00'B'

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
628+50	82	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
628+60	81	12	0	0	0	30	4	0	0	0	30	4	0	0	0	0	0	26
629+00	77	12	0	0	0	117	18	0	0	0	147	22	0	0	0	0	0	125
630+00	78	12	0	0	0	289	44	0	0	0	436	67	0	0	0	0	0	370
631+00	88	12	0	0	0	308	44	0	0	0	745	111	0	0	0	0	0	634
632+00	102	12	0	0	0	352	44	0	0	0	1,096	156	0	0	0	0	0	941
632+66	84	12	2	0	0	226	29	3	0	0	1,322	185	4	0	0	0	0	1,133
633+00	78	12	6	0	0	103	15	5	0	0	1,425	200	10	0	0	0	0	1,214
633+46	74	12	7	0	0	129	20	11	0	0	1,553	220	24	0	0	0	0	1,309
634+00	78	12	9	0	0	154	24	16	0	0	1,707	244	45	0	0	0	0	1,418
634+26	80	12	10	0	0	75	11	9	0	0	1,783	256	56	0	0	0	0	1,471
635+00	142	12	1	0	0	305	33	15	0	0	2,088	289	75	0	0	0	0	1,724
635+26	140	12	1	0	0	134	11	1	0	0	2,222	300	76	0	0	0	0	1,846
636+00	110	12	2	0	0	344	33	4	0	0	2,566	333	81	0	0	0	0	2,152
637+00	97	12	2	0	0	383	44	7	0	0	2,949	378	90	0	0	0	0	2,481
637+57	82	12	8	0	0	191	26	10	0	0	3,140	403	103	0	0	0	0	2,634
637+87	132	12	0	0	0	117	13	4	0	0	3,257	416	108	0	0	0	0	2,733
638+00	102	12	0	0	0	56	6	0	0	0	3,313	422	108	0	0	0	0	2,783
639+00	84	12	4	0	0	344	44	8	0	0	3,658	467	118	0	0	0	0	3,073
640+00	80	12	5	0	0	304	44	17	0	0	3,962	511	140	0	0	0	0	3,312
640+79	82	12	6	0	0	238	35	16	0	0	4,200	546	159	0	0	0	0	3,495
641+00	84	12	8	0	0	63	9	5	0	0	4,263	556	165	0	0	0	0	3,542
641+79	79	11	25	0	0	240	34	49	0	0	4,504	589	226	0	0	0	0	3,688
642+00	83	11	27	0	0	62	8	20	0	0	4,566	598	251	0	0	0	0	3,717
642+59	90	11	33	0	0	190	24	66	0	0	4,756	622	333	0	0	0	0	3,801
642+63	91	11	34	0	0	12	1	4	0	0	4,768	623	339	0	0	0	0	3,806
643+00	110	10	35	0	0	138	14	47	0	0	4,906	638	398	0	0	0	0	3,870
643+39	110	10	45	0	0	161	15	59	0	0	5,067	652	472	0	0	0	0	3,943
644+00	45	9	87	0	0	174	21	148	0	0	5,241	674	657	0	0	0	0	3,911
644+58	5	9	190	0	0	54	19	298	0	0	5,295	693	1,029	0	0	0	0	3,573
644+73	0	7	128	0	0	1	4	88	0	0	5,296	698	1,139	0	0	0	0	3,459
644+86	0	7	89	0	0	0	3	54	0	0	5,296	701	1,206	0	0	0	0	3,389
645+00	0	6	97	0	0	0	3	47	0	0	5,296	704	1,265	0	0	0	0	3,327
646+00	0	6	34	0	0	0	22	241	0	0	5,296	726	1,566	0	0	0	0	3,004
646+03	0	6	42	0	0	0	1	4	0	0	5,296	727	1,571	0	0	0	0	2,998
647+00	28	3	218	0	0	50	16	467	0	0	5,347	743	2,155	0	0	0	0	2,448
647+20	21	3	214	0	0	18	2	160	0	0	5,365	746	2,355	0	0	0	0	2,264
648+00	18	3	152	0	0	58	9	542	0	0	5,423	754	3,033	0	0	0	0	1,636
648+50	104	3	41	0	0	114	6	179	0	0	5,536	760	3,256	0	0	0	0	1,521
648+57	130	3	38	0	0	30	1	10	0	0	5,566	761	3,268	0	0	0	0	1,537
649+00	285	3	48	0	0	330	5	69	0	0	5,897	766	3,355	0	0	0	0	1,777
649+57	344	3	54	0	0	664	6	108	0	0	6,561	772	3,489	0	0	0	0	2,300
650+00	348	3	70	0	0	551	5	98	0	0	7,112	777	3,612	0	0	0	0	2,723

CONTINUED ON NEXT SHEET

USH 12/18 (STAGE 3) STA 628+50'B' - 702+00'B' (CONT.)

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
650+00	348	3	70	0	0	551	5	98	0	0	7,112	777	3,612	0	0	0	0	2,723
650+65	311	4	85	0	0	796	8	187	0	0	7,908	785	3,846	0	0	0	0	3,277
651+00	274	4	82	0	0	377	5	108	0	0	8,285	790	3,981	0	0	0	0	3,514
652+00	263	4	101	0	0	994	15	340	0	0	9,279	805	4,406	0	0	0	0	4,068
652+41	295	4	102	0	0	419	6	152	0	0	9,697	811	4,596	0	0	0	0	4,290
653+00	354	4	107	0	0	716	9	230	0	0	10,413	820	4,883	0	0	0	0	4,710
653+36	395	4	176	0	0	499	5	188	0	0	10,912	825	5,119	0	0	0	0	4,968
653+86	380	4	226	0	0	710	7	369	0	0	11,622	833	5,580	0	0	0	0	5,210
654+00	360	4	232	0	0	199	2	123	0	0	11,821	835	5,734	0	0	0	0	5,253
655+00	101	4	277	0	0	854	15	943	0	0	12,676	850	6,912	0	0	0	0	4,914
656+00	90	4	390	0	0	354	15	1,235	0	0	13,030	864	8,457	0	0	0	0	3,708
657+00	118	4	476	0	0	384	15	1,603	0	0	13,414	879	10,461	0	0	0	0	2,074
658+00	99	4	592	0	0	402	15	1,976	0	0	13,816	894	12,931	0	0	0	0	-9
659+00	55	3	775	0	0	285	13	2,531	0	0	14,101	907	16,095	0	0	0	0	-2,901
659+36	40	2	837	0	0	62	3	1,060	0	0	14,163	910	17,420	0	0	0	0	-4,167
660+00	42	0	871	0	0	97	2	2,040	0	0	14,260	913	19,969	0	0	0	0	-6,622
660+54	33	0	906	0	0	74	0	1,784	0	0	14,335	913	22,199	0	0	0	0	-8,777
660+79	28	0	930	0	0	28	0	850	0	0	14,363	913	23,262	0	0	0	0	-9,812
660+94	25	0	941	0	0	14	0	506	0	0	14,377	913	23,894	0	0	0	0	-10,430
661+00	23	0	948	0	0	6	0	216	0	0	14,383	913	24,165	0	0	0	0	-10,695
661+04	22	0	954	0	0	4	0	147	0	0	14,386	913	24,348	0	0	0	0	-10,875
661+48	13	0	1,019	0	0	29	0	1,605	0	0	14,415	913	26,354	0	0	0	0	-12,852
661+62	11	0	1,051	0	0	6	0	524	0	0	14,421	913	27,009	0	0	0	0	-13,501
662+00	3	0	1,137	0	0	10	0	1,549	0	0	14,430	913	28,945	0	0	0	0	-15,427
662+34	2	0	1,219	0	0	3	0	1,483	0	0	14,434	913	30,799	0	0	0	0	-17,278
662+41	5	0	1,129	0	0	1	0	295	0	0	14,435	913	31,168	0	0	0	0	-17,646
663+00	0	0	804	0	0	6	0	2,119	0	0	14,440	913	33,817	0	0	0	0	-20,289
664+00	0	0	0	0	0	0	0	1,488	0	0	14,440	913	35,677	0	0	0	0	-22,149
665+00	0	0	894	0	0	0	0	1,655	0	0	14,440	913	37,746	0	0	0	0	-24,219
665+55	0	0	1,512	0	0	0	0	2,451	0	0	14,440	913	40,810	0	0	0	0	-27,282
666+00	0	0	1,671	0	0	0	0	2,653	0	0	14,440	913	44,125	0	0	0	0	-30,598
666+25	0	0	1,620	0	0	0	0	1,500	0	0	14,440	913	46,001	0	0	0	0	-32,473
666+50	0	0	1,556	0	0	0	0	1,470	0	0	14,440	913	47,838	0	0	0	0	-34,311
666+67	0	0	1,451	0	0	0	0	945	0	0	14,440	913	49,020	0	0	0	0	-35,492
666+92	0	0	1,349	0	0	0	0	1,294	0	0	14,440	913	50,638	0	0	0	0	-37,110
667+00	0	0	1,390	0	0	0	0	429	0	0	14,440	913	51,173	0	0	0	0	-37,646
667+17	0	0	1,537	0	0	0	0	897	0	0	14,440	913	52,295	0	0	0	0	-38,767
667+57	0	0	1,603	0	0	0	0	2,359	0	0	14,440	913	55,244	0	0	0	0	-41,717
667+93	0	0	1,533	0	0	0	0	2,107	0	0	14,440	913	57,877	0	0	0	0	-44,350
668+00	0	0	1,528	0	0	0	0	374	0	0	14,440	913	58,345	0	0	0	0	-44,817
668+18	0	0	1,499	0	0	0	0	1,030	0	0	14,440	913	59,633	0	0	0	0	-46,105
668+37	0	0	1,472	0	0	0	0	1,000	0	0	14,440	913	60,883	0	0	0	0	-47,355
669+00	0	0	1,352	0	0	0	0	3,318	0	0	14,440	913	65,030	0	0	0	0	-51,503

CONTINUED ON NEXT SHEET

USH 12/18 (STAGE 3) STA 628+50'B' - 702+00'B' (CONT.)

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
669+00	0	0	1,352	0	0	0	0	3,318	0	0	14,440	913	65,030	0	0	0	0	-51,905
670+00	0	0	1,153	0	0	0	0	4,640	0	0	14,440	913	70,830	0	0	0	0	-57,303
670+06	0	0	1,151	0	0	0	0	256	0	0	14,440	913	71,150	0	0	0	0	-57,623
671+00	0	0	1,213	0	0	0	0	4,114	0	0	14,440	913	76,293	0	0	0	0	-62,765
672+00	0	0	1,048	0	0	0	0	4,187	0	0	14,440	913	81,527	0	0	0	0	-67,999
673+00	0	0	811	0	0	0	0	3,442	0	0	14,440	913	85,829	0	0	0	0	-72,302
674+00	0	0	1,286	0	0	0	0	3,882	0	0	14,440	913	90,682	0	0	0	0	-77,155
675+00	0	0	841	0	0	0	0	3,938	0	0	14,440	913	95,605	0	0	0	0	-82,077
675+66	0	0	1,315	0	289	0	0	2,635	0	353	14,440	913	98,545	0	459	0	282	-85,018
676+00	0	0	1,576	0	281	0	0	1,820	0	359	14,440	913	100,462	0	925	0	569	-86,934
676+06	0	0	1,028	0	192	0	0	289	0	53	14,440	913	100,771	0	993	0	611	-87,243
677+00	0	0	859	0	164	0	0	3,285	0	620	14,440	913	104,257	0	1,799	0	1,107	-90,729
677+11	0	0	857	0	184	0	0	356	0	72	14,440	913	104,630	0	1,893	0	1,165	-91,102
678+00	0	0	647	0	208	0	0	2,474	0	644	14,440	913	107,078	0	2,731	0	1,680	-93,551
679+00	1	0	74	0	0	1	0	1,335	0	386	14,442	913	108,362	0	3,232	0	1,989	-94,833
679+36	0	0	194	0	0	0	0	178	0	0	14,442	913	108,585	0	3,232	0	1,989	-95,055
680+00	0	0	555	454	0	0	0	890	539	0	14,442	913	109,292	809	3,232	324	1,989	-95,763
680+28	0	0	838	452	0	0	0	722	470	0	14,442	913	109,843	1,514	3,232	606	1,989	-96,313
681+00	0	0	1,873	513	0	0	0	3,614	1,286	0	14,442	913	113,395	3,444	3,232	1,378	1,989	-99,866
681+21	0	0	1,917	526	0	0	0	1,489	408	0	14,442	913	114,950	4,056	3,232	1,622	1,989	-101,421
681+28	0	0	1,927	530	0	0	0	483	133	0	14,442	913	115,455	4,255	3,232	1,702	1,989	-101,925
681+54	0	0	1,966	537	0	0	0	1,900	521	0	14,442	913	117,439	5,037	3,232	2,015	1,989	-103,910
682+00	0	0	1,905	528	0	0	0	3,271	900	0	14,442	913	120,853	6,387	3,232	2,555	1,989	-107,324
682+34	0	0	1,771	509	0	0	0	2,339	660	0	14,442	913	123,282	7,377	3,232	2,951	1,989	-109,753
683+00	35	0	1,036	451	0	43	0	3,412	1,167	0	14,485	913	126,672	9,128	3,232	3,651	1,989	-113,099
683+14	56	0	834	0	253	24	0	497	120	67	14,509	913	127,136	9,308	3,320	3,723	2,043	-113,539
683+94	216	0	188	0	134	403	0	1,514	0	574	14,912	913	128,455	9,308	4,066	3,723	2,502	-114,455
684+00	209	0	180	0	134	44	0	38	0	28	14,957	913	128,475	9,308	4,102	3,723	2,524	-114,431
685+00	20	0	224	0	0	425	0	748	0	249	15,381	913	129,161	9,308	4,425	3,723	2,723	-114,693
685+28	35	0	219	0	0	28	0	230	0	0	15,410	913	129,448	9,308	4,425	3,723	2,723	-114,951
686+00	186	0	120	0	0	294	0	451	0	0	15,704	913	130,012	9,308	4,425	3,723	2,723	-115,221
687+00	419	0	30	0	0	1,121	0	276	0	0	16,825	913	130,358	9,308	4,425	3,723	2,723	-114,446
687+68	3	0	726	0	0	533	0	953	0	0	17,357	913	131,549	9,308	4,425	3,723	2,723	-115,104
688+00	2	0	631	0	0	3	0	802	0	0	17,360	913	132,551	9,308	4,425	3,723	2,723	-116,104
689+00	9	1	220	0	0	19	2	1,575	0	0	17,379	914	134,520	9,308	4,425	3,723	2,723	-118,056
689+92	150	3	14	0	0	271	7	399	0	0	17,650	921	135,019	9,308	4,425	3,723	2,723	-118,290
690+00	168	5	9	0	0	47	1	4	0	0	17,697	922	135,023	9,308	4,425	3,723	2,723	-118,249
691+00	226	10	0	0	0	729	28	17	0	0	18,426	950	135,045	9,308	4,425	3,723	2,723	-117,569
692+00	209	11	0	0	0	806	39	0	0	0	19,232	989	135,045	9,308	4,425	3,723	2,723	-116,803
692+28	179	11	0	0	0	201	11	0	0	0	19,433	1,001	135,045	9,308	4,425	3,723	2,723	-116,613
693+00	117	14	0	63	0	396	33	0	85	0	19,829	1,034	134,982	9,435	4,425	3,774	2,723	-116,187
694+00	90	14	73	0	0	384	52	135	118	0	20,213	1,086	135,062	9,611	4,425	3,844	2,723	-115,935
695+00	95	16	48	0	0	342	56	223	0	0	20,555	1,141	135,342	9,611	4,425	3,844	2,723	-115,928
695+88	150	16	37	0	0	398	52	138	0	0	20,953	1,193	135,514	9,611	4,425	3,844	2,723	-115,754

CONTINUED ON NEXT SHEET

USH 12/18 (STAGE 3) STA 628+50'B' - 702+00'B' (CONT.)

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
695+88	150	16	37	0	0	398	52	138	0	0	20,953	1,193	135,514	9,611	4,425	3,844	2,723	-116,156
696+00	137	18	53	0	0	64	8	20	0	0	21,017	1,201	135,538	9,611	4,425	3,844	2,723	-115,722
696+39	82	18	135	0	0	159	26	136	0	0	21,176	1,227	135,708	9,611	4,425	3,844	2,723	-115,759
697+00	105	18	47	0	0	212	41	206	0	0	21,388	1,268	135,965	9,611	4,425	3,844	2,723	-115,845
697+52	96	18	14	0	0	193	35	59	0	0	21,581	1,302	136,039	9,611	4,425	3,844	2,723	-115,761
698+00	93	18	4	0	0	168	32	17	0	0	21,748	1,334	136,060	9,611	4,425	3,844	2,723	-115,646
698+88	169	18	0	0	0	425	59	7	0	0	22,173	1,393	136,069	9,611	4,425	3,844	2,723	-115,289
699+00	87	18	0	0	0	57	8	0	0	0	22,231	1,401	136,069	9,611	4,425	3,844	2,723	-115,239
699+68	97	18	1	0	0	232	45	1	0	0	22,463	1,446	136,070	9,611	4,425	3,844	2,723	-115,054
700+00	83	18	1	0	0	107	21	1	0	0	22,570	1,468	136,071	9,611	4,425	3,844	2,723	-114,969
700+48	64	18	0	0	0	131	32	1	0	0	22,701	1,500	136,072	9,611	4,425	3,844	2,723	-114,871
701+00	54	18	0	0	0	114	35	0	0	0	22,815	1,534	136,072	9,611	4,425	3,844	2,723	-114,791
701+28	58	18	0	0	0	58	19	0	0	0	22,873	1,553	136,072	9,611	4,425	3,844	2,723	-114,752
702+00	64	18	0	0	0	162	48	0	0	0	23,035	1,601	136,072	9,611	4,425	3,844	2,723	-114,638
				COLUMN TOTALS		23,035	1,601	115,426	6,407	3,404								

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USH 12/18 (STAGE 4) STA 628+50'B' - 702+00'B'

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
628+50	59	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
628+60	59	16	0	0	0	22	6	0	0	0	22	6	0	0	0	0	0	16
629+00	60	16	0	0	0	88	24	0	0	0	110	30	0	0	0	0	0	81
630+00	63	16	0	0	0	228	59	0	0	0	338	89	0	0	0	0	0	249
631+00	69	16	2	0	0	244	59	4	0	0	582	148	6	0	0	0	0	428
632+00	90	16	7	0	0	295	59	17	0	0	877	207	28	0	0	0	0	642
632+66	96	16	10	0	0	227	39	21	0	0	1,104	246	55	0	0	0	0	803
633+00	88	16	17	0	0	117	20	18	0	0	1,221	267	77	0	0	0	0	877
633+46	77	16	31	0	0	139	27	41	0	0	1,360	294	128	0	0	0	0	938
634+00	74	16	44	0	0	152	32	75	0	0	1,512	326	222	0	0	0	0	964
634+26	76	16	51	0	0	71	15	45	0	0	1,583	341	278	0	0	0	0	964
635+00	77	16	75	0	0	211	44	174	0	0	1,794	385	496	0	0	0	0	913
635+26	77	16	82	0	0	73	15	75	0	0	1,867	400	590	0	0	0	0	877
636+00	85	16	74	0	0	222	44	215	0	0	2,090	444	858	0	0	0	0	787
637+00	94	16	74	0	0	331	59	274	0	0	2,420	504	1,200	0	0	0	0	716
637+57	117	16	53	0	0	224	34	135	0	0	2,645	538	1,369	0	0	0	0	738
637+87	154	16	14	0	0	148	17	37	0	0	2,793	555	1,415	0	0	0	0	823
638+00	122	16	22	0	0	66	8	9	0	0	2,859	563	1,425	0	0	0	0	871
639+00	81	16	95	0	0	377	59	216	0	0	3,236	622	1,696	0	0	0	0	918
640+00	82	16	100	0	0	303	59	360	0	0	3,539	681	2,146	0	0	0	0	712
640+79	40	16	105	0	0	180	47	301	0	0	3,719	729	2,523	0	0	0	0	468
641+00	43	16	100	0	0	32	12	78	0	0	3,750	741	2,621	0	0	0	0	389
641+79	47	16	75	0	0	132	47	256	0	0	3,883	788	2,941	0	0	0	0	154
642+00	49	17	70	0	0	37	13	55	0	0	3,920	800	3,010	0	0	0	0	110
642+59	60	18	47	0	0	121	39	129	0	0	4,041	839	3,171	0	0	0	0	30
642+63	61	19	46	0	0	8	2	6	0	0	4,049	841	3,179	0	0	0	0	28
643+00	72	20	37	0	0	91	27	57	0	0	4,140	868	3,250	0	0	0	0	22
643+39	73	20	31	0	0	106	29	50	0	0	4,246	897	3,312	0	0	0	0	36
644+00	69	20	30	0	0	160	45	68	0	0	4,406	942	3,398	0	0	0	0	66
644+58	60	20	22	0	0	139	43	56	0	0	4,545	985	3,467	0	0	0	0	92
644+73	61	20	16	0	0	34	11	10	0	0	4,578	996	3,480	0	0	0	0	102
644+86	60	20	11	0	0	30	10	7	0	0	4,608	1,006	3,489	0	0	0	0	113
645+00	65	20	9	0	0	31	10	5	0	0	4,640	1,016	3,495	0	0	0	0	128
646+00	42	20	10	0	0	198	74	36	0	0	4,838	1,090	3,541	0	0	0	0	206
646+03	42	20	10	0	0	5	2	1	0	0	4,842	1,093	3,542	0	0	0	0	207
647+00	41	20	8	0	0	148	72	32	0	0	4,991	1,164	3,583	0	0	0	0	244
647+20	39	20	9	0	0	30	15	6	0	0	5,021	1,179	3,590	0	0	0	0	251
648+00	34	20	18	0	0	109	59	99	0	0	5,129	1,238	3,714	0	0	0	0	177
648+50	39	20	22	0	0	68	37	74	0	0	5,197	1,276	3,807	0	0	0	0	114
648+57	38	20	23	0	0	10	5	11	0	0	5,207	1,281	3,820	0	0	0	0	106
649+00	30	20	7	0	0	54	32	56	0	0	5,261	1,313	3,890	0	0	0	0	58
649+57	42	20	13	0	0	76	42	63	0	0	5,337	1,355	3,970	0	0	0	0	13
650+00	11	20	11	0	0	42	32	51	0	0	5,379	1,387	4,033	0	0	0	0	-40

CONTINUED ON NEXT SHEET

USH 12/18 (STAGE 4) STA 628+50'B' - 702+00'B' (CONT.)

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
650+00	11	20	11	0	0	42	32	51	0	0	5,379	1,387	4,033	0	0	0	0	-40
650+65	3	20	0	0	0	16	48	62	0	0	5,396	1,435	4,110	0	0	0	0	-149
651+00	0	20	3	0	0	2	26	27	0	0	5,397	1,461	4,145	0	0	0	0	-208
652+00	0	20	2	0	0	0	74	83	0	0	5,397	1,535	4,248	0	0	0	0	-385
652+41	0	20	14	0	0	0	30	42	0	0	5,397	1,565	4,300	0	0	0	0	-467
653+00	31	20	0	0	0	34	44	59	0	0	5,432	1,609	4,374	0	0	0	0	-551
653+36	68	20	66	0	0	66	27	71	0	0	5,498	1,635	4,462	0	0	0	0	-599
653+86	54	20	64	0	0	112	37	155	0	0	5,609	1,672	4,656	0	0	0	0	-719
654+00	54	20	65	0	0	29	11	45	0	0	5,638	1,683	4,712	0	0	0	0	-757
655+00	71	20	86	0	0	231	74	354	0	0	5,869	1,757	5,155	0	0	0	0	-1,043
656+00	66	21	107	0	0	254	76	433	0	0	6,123	1,833	5,697	0	0	0	0	-1,406
657+00	59	22	133	0	0	231	80	525	0	0	6,354	1,913	6,353	0	0	0	0	-1,912
658+00	57	23	215	0	0	214	83	729	0	0	6,568	1,996	7,265	0	0	0	0	-2,692
659+00	63	24	246	0	0	222	87	941	0	0	6,790	2,083	8,441	0	0	0	0	-3,734
659+36	68	25	253	0	0	86	32	360	0	0	6,876	2,115	8,891	0	0	0	0	-4,130
660+00	88	26	273	0	0	187	61	689	0	0	7,063	2,176	9,753	0	0	0	0	-4,866
660+54	213	26	285	0	0	302	52	613	0	0	7,365	2,228	10,519	0	0	0	0	-5,382
660+79	214	26	291	0	0	197	24	291	0	0	7,563	2,252	10,882	0	0	0	0	-5,572
660+94	214	26	294	0	0	116	14	172	0	0	7,678	2,266	11,098	0	0	0	0	-5,686
661+00	213	26	297	0	0	49	6	74	0	0	7,727	2,272	11,190	0	0	0	0	-5,735
661+04	214	26	301	0	0	33	4	50	0	0	7,760	2,276	11,253	0	0	0	0	-5,769
661+48	153	26	283	0	0	299	42	517	0	0	8,059	2,319	11,899	0	0	0	0	-6,159
661+62	148	26	270	0	0	76	13	153	0	0	8,135	2,332	12,090	0	0	0	0	-6,287
662+00	23	26	242	0	0	120	37	400	0	0	8,255	2,369	12,590	0	0	0	0	-6,703
662+34	4	26	136	0	0	17	33	238	0	0	8,272	2,401	12,887	0	0	0	0	-7,017
662+41	0	26	152	0	0	1	7	36	0	0	8,272	2,408	12,933	0	0	0	0	-7,068
663+00	0	26	562	0	0	0	57	783	0	0	8,272	2,465	13,912	0	0	0	0	-8,104
664+00	0	26	0	0	0	0	96	1,040	0	0	8,272	2,561	15,212	0	0	0	0	-9,501
665+00	43	26	217	0	0	80	96	403	0	0	8,352	2,657	15,715	0	0	0	0	-10,020
665+55	49	25	293	0	0	93	52	520	0	0	8,446	2,709	16,365	0	0	0	0	-10,629
666+00	50	24	238	0	0	82	41	443	0	0	8,528	2,750	16,919	0	0	0	0	-11,141
666+25	50	24	235	0	0	45	22	216	0	0	8,573	2,772	17,188	0	0	0	0	-11,388
666+50	48	24	236	0	0	45	22	218	0	0	8,618	2,794	17,461	0	0	0	0	-11,637
666+67	39	24	231	0	0	28	15	147	0	0	8,646	2,809	17,645	0	0	0	0	-11,808
666+92	40	24	234	0	0	37	22	215	0	0	8,682	2,832	17,914	0	0	0	0	-12,063
667+00	38	24	231	0	0	12	8	73	0	0	8,694	2,839	18,005	0	0	0	0	-12,150
667+17	35	24	230	0	0	22	15	141	0	0	8,717	2,854	18,181	0	0	0	0	-12,318
667+57	36	24	234	0	0	53	36	348	0	0	8,770	2,890	18,617	0	0	0	0	-12,736
667+93	39	24	235	0	0	51	32	315	0	0	8,821	2,922	19,011	0	0	0	0	-13,112
668+00	41	24	235	0	0	10	6	57	0	0	8,831	2,928	19,083	0	0	0	0	-13,180
668+18	45	24	240	0	0	29	16	162	0	0	8,860	2,944	19,285	0	0	0	0	-13,369
668+37	46	24	241	0	0	31	16	162	0	0	8,891	2,961	19,487	0	0	0	0	-13,557
669+00	45	24	240	0	0	107	56	565	0	0	8,998	3,017	20,193	0	0	0	0	-14,212

CONTINUED ON NEXT SHEET

USH 12/18 (STAGE 4) STA 628+50'B' - 702+00'B' (CONT.)

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
669+00	45	24	240	0	0	107	56	565	0	0	8,998	3,017	20,193	0	0	0	0	-14,212
670+00	42	24	220	0	0	160	89	896	0	0	9,158	3,106	21,314	0	0	0	0	-15,261
670+06	41	24	221	0	0	9	5	52	0	0	9,167	3,111	21,378	0	0	0	0	-15,322
671+00	52	24	197	0	0	162	84	770	0	0	9,329	3,195	22,341	0	0	0	0	-16,206
672+00	301	24	144	0	0	654	89	677	0	0	9,983	3,284	23,187	0	0	0	0	-16,487
673+00	536	24	99	0	0	1,551	89	496	0	0	11,535	3,372	23,807	0	0	0	0	-15,644
674+00	337	24	76	0	0	1,618	89	368	0	0	13,153	3,461	24,267	0	0	0	0	-14,576
675+00	640	24	57	0	0	1,809	89	246	0	0	14,962	3,550	24,574	0	0	0	0	-13,163
675+66	504	24	6	0	0	1,398	59	77	0	0	16,360	3,609	24,670	0	0	0	0	-11,919
676+00	502	24	15	0	0	634	30	13	0	0	16,994	3,639	24,687	0	0	0	0	-11,332
676+06	261	24	78	0	0	85	5	10	0	0	17,079	3,644	24,700	0	0	0	0	-11,266
677+00	391	24	56	0	0	1,136	84	233	0	0	18,214	3,728	24,991	0	0	0	0	-10,504
677+11	393	24	201	0	0	163	10	53	0	0	18,377	3,738	25,057	0	0	0	0	-10,418
678+00	380	24	36	0	0	1,271	79	390	0	0	19,648	3,817	25,545	0	0	0	0	-9,713
679+00	410	24	16	0	0	1,463	89	96	0	0	21,112	3,906	25,665	0	0	0	0	-8,459
679+36	454	24	13	0	0	575	32	19	0	0	21,686	3,938	25,689	0	0	0	0	-7,940
680+00	514	24	0	0	0	1,149	57	15	0	0	22,836	3,995	25,708	0	0	0	0	-6,867
680+28	526	24	0	0	0	539	25	0	0	0	23,375	4,020	25,708	0	0	0	0	-6,353
681+00	539	24	0	0	0	1,420	64	0	0	0	24,795	4,084	25,708	0	0	0	0	-4,997
681+21	503	24	0	0	0	409	19	0	0	0	25,204	4,102	25,708	0	0	0	0	-4,607
681+28	488	24	0	0	0	125	6	0	0	0	25,328	4,108	25,708	0	0	0	0	-4,488
681+54	434	24	0	0	0	450	23	0	0	0	25,779	4,132	25,708	0	0	0	0	-4,061
682+00	344	24	0	0	0	658	41	0	0	0	26,436	4,172	25,708	0	0	0	0	-3,444
682+34	282	24	0	0	0	399	31	0	0	0	26,835	4,203	25,708	0	0	0	0	-3,076
683+00	241	24	1	0	0	637	58	1	0	0	27,472	4,261	25,709	0	0	0	0	-2,498
683+14	245	25	1	0	0	129	13	0	0	0	27,601	4,274	25,709	0	0	0	0	-2,383
683+94	229	26	0	0	0	702	76	1	0	0	28,303	4,350	25,711	0	0	0	0	-1,758
684+00	238	29	0	0	0	49	6	0	0	0	28,352	4,356	25,711	0	0	0	0	-1,715
685+00	313	29	0	0	0	1,020	107	0	0	0	29,372	4,463	25,712	0	0	0	0	-803
685+28	354	29	0	0	0	346	30	0	0	0	29,718	4,493	25,712	0	0	0	0	-487
686+00	392	29	0	0	0	995	77	0	0	0	30,713	4,571	25,712	0	0	0	0	431
687+00	566	28	0	0	0	1,775	106	0	0	0	32,489	4,676	25,712	0	0	0	0	2,101
687+68	510	27	0	0	0	1,357	69	0	0	0	33,845	4,745	25,712	0	0	0	0	3,388
688+00	459	26	0	0	0	573	31	0	0	0	34,418	4,777	25,712	0	0	0	0	3,930
689+00	379	26	0	0	0	1,552	96	0	0	0	35,970	4,873	25,712	0	0	0	0	5,386
689+92	424	25	0	0	0	1,368	87	0	0	0	37,338	4,960	25,712	0	0	0	0	6,667
690+00	426	24	0	0	0	126	7	0	0	0	37,464	4,967	25,712	0	0	0	0	6,785
691+00	361	22	0	0	0	1,457	85	0	0	0	38,922	5,052	25,712	0	0	0	0	8,158
692+00	244	22	0	0	0	1,120	81	0	0	0	40,041	5,134	25,712	0	0	0	0	9,196
692+28	211	22	0	0	0	236	23	0	0	0	40,277	5,157	25,712	0	0	0	0	9,409
693+00	195	22	0	0	0	541	59	0	0	0	40,818	5,215	25,712	0	0	0	0	9,891
694+00	108	22	2	0	0	561	81	4	0	0	41,379	5,297	25,717	0	0	0	0	10,365
695+00	84	22	51	0	0	355	81	99	0	0	41,734	5,378	25,841	0	0	0	0	10,515
695+88	133	22	38	0	0	354	72	145	0	0	42,088	5,450	26,022	0	0	0	0	10,615

CONTINUED ON NEXT SHEET

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USH 12/18 (STAGE 4) STA 628+50'B' - 702+00'B' (CONT.)

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
695+88	133	22	38	0	0	354	72	145	0	0	42,088	5,450	26,022	0	0	0	0	10,615
696+00	140	22	40	0	0	61	10	17	0	0	42,148	5,460	26,044	0	0	0	0	10,645
696+39	74	22	165	0	0	154	32	148	0	0	42,303	5,492	26,229	0	0	0	0	10,582
697+00	141	22	10	0	0	243	50	198	0	0	42,545	5,541	26,476	0	0	0	0	10,528
697+52	110	22	3	0	0	241	42	13	0	0	42,786	5,584	26,492	0	0	0	0	10,710
698+00	81	22	3	0	0	170	39	5	0	0	42,956	5,623	26,499	0	0	0	0	10,834
698+88	65	22	1	0	0	238	72	7	0	0	43,193	5,694	26,508	0	0	0	0	10,991
699+00	66	22	1	0	0	29	10	0	0	0	43,223	5,704	26,508	0	0	0	0	11,010
699+68	56	22	1	0	0	154	55	2	0	0	43,377	5,760	26,511	0	0	0	0	11,106
700+00	55	22	0	0	0	66	26	1	0	0	43,443	5,786	26,512	0	0	0	0	11,145
700+48	57	22	0	0	0	100	39	0	0	0	43,543	5,825	26,512	0	0	0	0	11,206
701+00	56	22	0	0	0	110	42	0	0	0	43,652	5,867	26,512	0	0	0	0	11,273
701+28	55	22	0	0	0	58	23	0	0	0	43,710	5,890	26,512	0	0	0	0	11,308
702+00	59	22	0	0	0	153	59	0	0	0	43,863	5,949	26,512	0	0	0	0	11,402
				COLUMN TOTALS		43,863	5,949	21,210	0	0								

USH 12/18 AND JUG RAMP B INFIELD (STAGE 2) STA 653+36'B' - 661+62'B'

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
653+36	1,248	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
653+86	2,081	0	0	0	0	3,052	0	0	0	0	3,052	0	0	0	0	0	0	3,052
654+00	2,320	0	0	0	0	1,182	0	0	0	0	4,234	0	0	0	0	0	0	4,234
655+00	3,879	0	0	0	0	11,479	0	0	0	0	15,713	0	0	0	0	0	0	15,713
656+00	5,900	0	0	0	0	18,109	0	0	0	0	33,822	0	0	0	0	0	0	33,822
657+00	7,532	0	0	0	0	24,874	0	0	0	0	58,696	0	0	0	0	0	0	58,696
658+00	6,483	0	0	0	0	25,953	0	0	0	0	84,649	0	0	0	0	0	0	84,649
659+00	4,592	0	0	0	0	20,509	0	0	0	0	105,158	0	0	0	0	0	0	105,158
659+36	3,785	0	0	0	0	5,507	0	0	0	0	110,665	0	0	0	0	0	0	110,665
660+00	2,279	0	0	0	0	7,243	0	0	0	0	117,908	0	0	0	0	0	0	117,908
660+54	1,844	0	0	0	0	4,138	0	0	0	0	122,046	0	0	0	0	0	0	122,046
660+79	1,430	0	0	0	0	1,516	0	0	0	0	123,562	0	0	0	0	0	0	123,562
660+94	1,188	0	0	0	0	708	0	0	0	0	124,270	0	0	0	0	0	0	124,270
661+00	1,129	0	0	0	0	266	0	0	0	0	124,535	0	0	0	0	0	0	124,535
661+04	1,103	0	0	0	0	172	0	0	0	0	124,708	0	0	0	0	0	0	124,708
661+48	542	0	0	0	0	1,338	0	0	0	0	126,046	0	0	0	0	0	0	126,046
661+62	240	0	0	0	0	198	0	0	0	0	126,244	0	0	0	0	0	0	126,244
				COLUMN TOTALS		126,244	0	0	0	0								

JUG RAMP A (STAGE 2) STA 1000+44'JA' - 1004+71'JA'

STATION	AREA (SF) CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	MASS ORDINATE NOTE 9
1000+44	0	0	3,578	960	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1000+68	0	0	3,429	960	0	0	0	3,114	853	0	0	0	3,253	1,280	0	512	0	-3,253
1001+00	0	0	2,675	171	0	0	0	3,617	670	0	0	0	7,272	2,285	0	914	0	-7,272
1001+04	0	0	2,546	298	0	0	0	425	38	0	0	0	7,776	2,342	0	937	0	-7,776
1002+00	91	0	2,045	288	0	161	0	8,129	1,036	0	161	0	17,160	3,896	0	1,558	0	-16,999
1002+04	91	0	2,039	288	0	13	0	303	43	0	174	0	17,506	3,960	0	1,584	0	-17,332
1002+15	94	0	2,045	288	0	38	0	832	117	0	211	0	18,458	4,136	0	1,654	0	-18,246
1002+60	130	0	2,067	294	0	186	0	3,426	484	0	398	0	22,378	4,862	0	1,945	0	-21,980
1002+87	134	0	2,134	297	0	132	0	2,100	295	0	529	0	24,782	5,305	0	2,122	0	-24,252
1003+00	145	0	2,129	308	0	67	0	1,026	146	0	597	0	25,955	5,523	0	2,209	0	-25,359
1003+15	159	0	2,176	316	0	85	0	1,196	173	0	681	0	27,320	5,784	0	2,313	0	-26,639
1004+00	0	0	3,053	0	266	251	0	8,230	498	419	932	0	36,816	6,530	544	2,612	335	-35,884
1004+71	0	0	4,646	0	449	0	0	10,122	0	941	933	0	48,529	6,530	1,767	2,612	1,088	-47,596
				COLUMN TOTALS		933	0	42,522	4,353	1,359								

JUG RAMP B (STAGE 2) STA 2000+32'JB'- 2009+93'JB'

STATION	AREA (SF) CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	MASS ORDINATE NOTE 9
2000+32	0	0	701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000+98	29	0	649	0	0	35	0	1,640	0	0	35	0	2,050	0	0	0	0	-2,015
2001+00	9	0	672	0	0	2	0	59	0	0	36	0	2,123	0	0	0	0	-2,087
2001+42	369	0	75	0	0	295	0	581	0	0	331	0	2,849	0	0	0	0	-2,518
2002+00	1,529	0	0	0	0	2,039	0	80	0	0	2,370	0	2,949	0	0	0	0	-579
2002+55	2,871	0	0	0	0	4,478	0	0	0	0	6,848	0	2,949	0	0	0	0	3,899
2003+00	2,730	0	0	0	0	4,671	0	0	0	0	11,519	0	2,949	0	0	0	0	8,570
2003+55	2,654	0	0	0	0	5,446	0	0	0	0	16,965	0	2,949	0	0	0	0	14,016
2003+94	2,602	0	0	0	0	3,796	0	0	0	0	20,761	0	2,949	0	0	0	0	17,812
2004+00	2,569	0	0	0	0	611	0	0	0	0	21,372	0	2,949	0	0	0	0	18,423
2004+33	2,503	0	0	0	0	3,064	0	0	0	0	24,436	0	2,949	0	0	0	0	21,487
2004+71	2,391	0	0	0	0	3,444	0	0	0	0	27,880	0	2,949	0	0	0	0	24,931
2005+00	2,233	0	0	0	0	2,516	0	0	0	0	30,397	0	2,949	0	0	0	0	27,447
2006+00	1,802	0	0	0	0	7,472	0	0	0	0	37,869	0	2,949	0	0	0	0	34,920
2006+96	2,636	0	0	0	0	7,899	0	0	0	0	45,768	0	2,949	0	0	0	0	42,819
2007+00	2,617	0	0	0	0	377	0	0	0	0	46,146	0	2,949	0	0	0	0	43,196
2007+24	2,515	0	0	0	0	2,244	0	0	0	0	48,389	0	2,949	0	0	0	0	45,440
2007+62	2,406	0	0	0	0	3,463	0	0	0	0	51,852	0	2,949	0	0	0	0	48,903
2008+00	2,594	0	0	0	0	3,555	0	0	0	0	55,407	0	2,949	0	0	0	0	52,457
2008+01	2,601	0	0	0	0	59	0	0	0	0	55,465	0	2,949	0	0	0	0	52,516
2008+34	3,084	0	0	0	0	3,486	0	0	0	0	58,952	0	2,949	0	0	0	0	56,002
2008+94	4,837	0	0	0	0	8,864	0	0	0	0	67,815	0	2,949	0	0	0	0	64,866
2009+00	4,896	0	0	0	0	1,053	0	0	0	0	68,868	0	2,949	0	0	0	0	65,919
2009+34	4,392	0	0	0	0	5,848	0	0	0	0	74,716	0	2,949	0	0	0	0	71,767
2009+46	4,207	0	0	0	0	1,930	0	0	0	0	76,646	0	2,949	0	0	0	0	73,697
2009+93	2,514	0	45	0	0	5,835	0	39	0	0	82,481	0	2,998	0	0	0	0	79,483
				COLUMN TOTALS		82,481	0	2,398	0	0								

SHAUL LN (STAGE 3) STA 300+49'SH' - 315+00'SH'

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
300+49	1,240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300+55	1,190	0	0	0	0	279	0	0	0	0	279	0	0	0	0	0	0	279
300+89	220	0	386	0	291	882	0	242	0	182	1,161	0	120	0	237	0	146	1,041
301+00	123	0	582	0	293	70	0	197	0	119	1,231	0	248	0	392	0	241	983
301+04	63	0	662	0	290	14	0	97	0	45	1,245	0	323	0	451	0	277	922
301+09	42	0	741	0	290	9	0	125	0	52	1,255	0	427	0	518	0	318	827
301+50	12	0	918	0	303	41	0	1,259	0	450	1,296	0	1,552	0	1,102	0	678	-256
301+63	10	0	992	0	306	5	0	460	0	147	1,301	0	1,980	0	1,293	0	796	-679
301+85	11	0	1,073	0	301	9	0	842	0	247	1,309	0	2,785	0	1,614	0	993	-1,475
302+00	8	0	1,118	0	297	5	0	609	0	166	1,315	0	3,379	0	1,830	0	1,126	-2,065
302+20	6	0	1,154	0	292	5	0	841	0	218	1,320	0	4,213	0	2,114	0	1,301	-2,893
302+54	4	0	1,157	0	280	6	0	1,455	0	360	1,326	0	5,672	0	2,582	0	1,589	-4,346
302+90	5	0	1,018	0	258	6	0	1,450	0	359	1,331	0	7,125	0	3,048	0	1,876	-5,794
303+00	5	0	967	0	219	2	0	368	0	88	1,333	0	7,496	0	3,163	0	1,946	-6,163
303+40	12	0	795	0	234	13	0	1,305	0	336	1,346	0	8,792	0	3,599	0	2,215	-7,446
303+82	64	0	589	0	217	59	0	1,076	0	351	1,405	0	9,787	0	4,055	0	2,495	-8,382
304+00	117	0	494	0	208	61	0	361	0	142	1,466	0	10,097	0	4,239	0	2,609	-8,631
304+50	187	0	200	0	182	281	0	641	0	360	1,747	0	10,538	0	4,708	0	2,897	-8,791
304+80	325	0	32	0	161	285	0	129	0	191	2,032	0	10,508	0	4,956	0	3,050	-8,476
305+00	481	0	0	0	82	299	0	12	0	90	2,331	0	10,433	0	5,073	0	3,122	-8,102
305+19	629	0	0	0	0	389	0	0	0	29	2,720	0	10,404	0	5,111	0	3,145	-7,685
305+54	844	0	0	0	0	955	0	0	0	0	3,674	0	10,404	0	5,111	0	3,145	-6,730
306+00	1,172	0	0	0	0	1,721	0	0	0	0	5,395	0	10,404	0	5,111	0	3,145	-5,009
307+00	1,964	0	0	0	0	5,807	0	0	0	0	11,202	0	10,404	0	5,111	0	3,145	798
308+00	863	0	0	0	0	5,235	0	0	0	0	16,437	0	10,404	0	5,111	0	3,145	6,033
309+00	0	0	158	0	174	1,599	0	292	0	322	18,036	0	10,447	0	5,529	0	3,403	7,589
310+00	1	0	147	0	173	2	0	565	0	643	18,038	0	10,510	0	6,365	0	3,917	7,528
310+35	56	0	6	0	147	37	0	99	0	208	18,075	0	10,427	0	6,635	0	4,083	7,648
311+00	401	0	0	0	0	550	0	8	0	177	18,625	0	10,259	0	6,865	0	4,225	8,366
311+09	442	0	0	0	0	143	0	0	0	0	18,769	0	10,259	0	6,865	0	4,225	8,509
311+43	552	0	0	0	0	626	0	0	0	0	19,395	0	10,259	0	6,865	0	4,225	9,135
311+77	559	0	0	0	0	700	0	0	0	0	20,095	0	10,259	0	6,865	0	4,225	9,835
312+00	527	0	0	0	0	459	0	0	0	0	20,554	0	10,259	0	6,865	0	4,225	10,294
312+08	502	10	0	0	0	156	2	0	0	0	20,709	2	10,259	0	6,865	0	4,225	10,449
313+00	176	10	0	0	0	1,152	34	0	0	0	21,862	36	10,259	0	6,865	0	4,225	11,567
313+78	89	10	0	0	0	383	29	0	0	0	22,245	64	10,259	0	6,865	0	4,225	11,921
314+00	91	10	0	0	0	73	8	0	0	0	22,318	73	10,259	0	6,865	0	4,225	11,986
314+06	85	10	0	0	0	20	2	0	0	0	22,338	75	10,259	0	6,865	0	4,225	12,003
314+09	84	10	0	0	0	10	1	0	0	0	22,347	76	10,259	0	6,865	0	4,225	12,012
314+43	63	10	1	0	0	93	13	1	0	0	22,440	89	10,260	0	6,865	0	4,225	12,091
314+77	56	10	3	0	0	75	13	2	0	0	22,515	101	10,263	0	6,865	0	4,225	12,150
315+00	54	10	2	0	0	47	8	2	0	0	22,561	110	10,266	0	6,865	0	4,225	12,186
COLUMN TOTALS						22,561	110	12,437	0	5,281								

SHAUL LN (STAGE 3) STA 321+17'SH' - 329+46'SH'

STATION	AREA (SF) CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	MASS ORDINATE NOTE 9
321+17	7	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
321+40	12	0	6	0	0	8	0	4	0	0	8	0	5	0	0	0	0	3
321+60	31	0	4	0	0	16	0	4	0	0	24	0	10	0	0	0	0	15
321+71	27	0	8	0	0	12	0	2	0	0	36	0	13	0	0	0	0	23
322+00	16	0	12	0	0	23	0	11	0	0	59	0	26	0	0	0	0	33
323+00	19	0	1	0	0	65	0	24	0	0	125	0	56	0	0	0	0	69
324+00	25	0	0	0	0	83	0	2	0	0	207	0	58	0	0	0	0	149
325+00	4	0	11	0	0	55	0	21	0	0	262	0	84	0	0	0	0	178
326+00	8	0	11	0	0	22	0	41	0	0	284	0	135	0	0	0	0	149
327+00	20	0	7	0	0	51	0	33	0	0	336	0	176	0	0	0	0	160
328+00	49	0	5	0	0	128	0	22	0	0	464	0	204	0	0	0	0	260
328+14	43	0	7	0	0	24	0	3	0	0	488	0	208	0	0	0	0	281
328+96	32	0	171	0	0	115	0	270	0	0	603	0	544	0	0	0	0	59
329+00	32	0	156	0	0	5	0	24	0	0	608	0	575	0	0	0	0	33
329+40	89	0	17	0	0	90	0	129	0	0	697	0	736	0	0	0	0	-38
329+46	107	0	37	0	0	22	0	6	0	0	719	0	743	0	0	0	0	-24
COLUMN TOTALS						719	0	594	0	0								

EXISTING SHAUL LN REMOVAL (STAGE 4) STA 801+75'E' - 804+50'E'

STATION	AREA (SF) CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	MASS ORDINATE NOTE 9
801+75	107	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
802+00	100	10	0	0	0	96	9	0	0	0	96	9	0	0	0	0	0	87
803+00	90	10	0	0	0	352	37	0	0	0	448	46	0	0	0	0	0	401
804+00	78	10	0	0	0	311	37	0	0	0	759	83	0	0	0	0	0	675
804+50	79	10	0	0	0	146	19	0	0	0	905	102	0	0	0	0	0	803
COLUMN TOTALS						905	102	0	0	0								

NULAND RD (STAGE 3) STA 6+50 - 10+62

STATION	AREA (SF) CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	MASS ORDINATE NOTE 9
6+50	54	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6+65	53	6	0	0	0	30	3	0	0	0	30	3	0	0	0	0	0	26
7+00	42	6	0	0	0	62	8	0	0	0	92	11	0	0	0	0	0	80
7+91	7	6	45	0	0	83	20	95	0	0	175	31	119	0	0	0	0	24
8+00	6	6	53	0	0	2	2	19	0	0	177	33	143	0	0	0	0	1
8+26	3	6	81	0	0	4	6	70	0	0	181	39	230	0	0	0	0	-88
8+61	4	6	113	0	111	5	8	134	0	72	186	47	325	0	93	0	58	-186
8+95	5	6	132	0	115	6	8	162	0	142	191	54	385	0	279	0	171	-248
9+00	5	6	138	0	115	1	1	27	0	22	192	56	397	0	308	0	189	-260
10+00	62	6	382	0	160	124	22	986	0	511	316	78	1,119	0	972	0	598	-881
10+02	63	6	401	0	157	5	0	29	0	12	321	78	1,145	0	987	0	607	-902
10+22	31	6	519	0	168	35	4	345	0	121	356	83	1,455	0	1,144	0	704	-1,182
10+62	0	6	867	0	260	23	9	1,023	0	313	379	91	2,421	0	1,551	0	954	-2,133
				COLUMN TOTALS		379	91	2,891	0	1,193								

FADNESS RD (STAGE 3) STA 6+75 - 9+00

STATION	AREA (SF) CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	MASS ORDINATE NOTE 9
6+75	49	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6+81	46	18	0	0	0	11	4	0	0	0	11	4	0	0	0	0	0	7
7+00	46	18	6	0	0	32	13	2	0	0	43	17	3	0	0	0	0	24
7+10	49	18	20	0	91	18	7	5	0	17	60	23	-8	0	22	0	14	45
7+49	55	18	33	0	172	75	26	38	0	190	136	49	-150	0	269	0	165	236
7+96	61	21	26	0	39	100	34	51	0	183	236	83	-269	0	507	0	312	422
8+00	34	22	8	0	0	8	3	3	0	3	243	86	-269	0	511	0	314	426
9+00	111	22	0	0	0	267	81	15	0	0	510	168	-250	0	511	0	314	592
				COLUMN TOTALS		510	168	114	0	393								

USH 12/18 TEMPORARY WIDENING (STAGE 2) STA 621+64'BE' - 659+50'BE'

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
621+64	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
622+00	18	0	0	0	0	20	0	0	0	0	20	0	0	0	0	0	0	20
623+00	20	0	0	0	0	69	0	0	0	0	89	0	0	0	0	0	0	89
624+00	17	0	0	0	0	69	0	0	0	0	158	0	0	0	0	0	0	158
625+00	43	0	0	0	0	112	0	0	0	0	270	0	0	0	0	0	0	270
626+00	53	0	0	0	0	178	0	0	0	0	448	0	1	0	0	0	0	447
627+00	96	0	0	0	0	276	0	1	0	0	724	0	2	0	0	0	0	722
628+00	52	0	1	0	0	273	0	3	0	0	997	0	6	0	0	0	0	991
629+00	28	0	7	0	0	149	0	15	0	0	1,145	0	24	0	0	0	0	1,121
630+00	23	0	11	0	0	95	0	33	0	0	1,241	0	66	0	0	0	0	1,175
631+00	22	0	18	0	0	84	0	54	0	0	1,325	0	133	0	0	0	0	1,192
632+00	31	0	21	0	0	99	0	72	0	0	1,424	0	223	0	0	0	0	1,201
633+00	21	0	35	0	0	97	0	105	0	0	1,521	0	354	0	0	0	0	1,168
634+00	11	0	64	0	0	61	0	184	0	0	1,582	0	584	0	0	0	0	998
635+00	15	0	74	0	0	49	0	255	0	0	1,631	0	903	0	0	0	0	727
636+00	25	0	61	0	0	73	0	249	0	0	1,704	0	1,215	0	0	0	0	490
637+00	41	0	63	0	0	122	0	229	0	0	1,826	0	1,501	0	0	0	0	325
637+80	107	5	1	0	0	219	7	95	0	0	2,045	7	1,620	0	0	0	0	417
638+00	75	5	7	0	0	67	4	3	0	0	2,112	11	1,624	0	0	0	0	477
639+00	27	0	64	0	0	188	9	132	0	0	2,301	20	1,788	0	0	0	0	492
640+00	12	0	44	0	0	72	0	201	0	0	2,373	20	2,039	0	0	0	0	314
641+00	10	0	15	0	0	41	0	109	0	0	2,414	20	2,176	0	0	0	0	218
642+00	9	0	6	0	0	35	0	39	0	0	2,449	20	2,224	0	0	0	0	204
643+00	12	0	5	0	0	40	0	20	0	0	2,489	20	2,249	0	0	0	0	219
644+00	10	0	7	0	0	41	0	22	0	0	2,530	20	2,276	0	0	0	0	234
645+00	17	0	1	0	0	49	0	14	0	0	2,579	20	2,294	0	0	0	0	265
646+00	12	0	2	0	0	53	0	5	0	0	2,632	20	2,300	0	0	0	0	311
647+00	11	0	2	0	0	42	0	7	0	0	2,673	20	2,308	0	0	0	0	345
648+00	12	0	1	0	0	42	0	5	0	0	2,715	20	2,315	0	0	0	0	380
649+00	11	0	0	0	0	42	0	2	0	0	2,757	20	2,318	0	0	0	0	419
650+00	11	0	0	0	0	41	0	1	0	0	2,798	20	2,319	0	0	0	0	459
651+00	13	0	0	0	0	45	0	0	0	0	2,843	20	2,319	0	0	0	0	504
652+00	18	0	0	0	0	56	0	0	0	0	2,900	20	2,319	0	0	0	0	561
653+00	17	0	0	0	0	63	0	0	0	0	2,963	20	2,319	0	0	0	0	624
654+00	14	0	0	0	0	56	0	0	0	0	3,019	20	2,319	0	0	0	0	680
655+00	18	0	0	0	0	58	0	0	0	0	3,077	20	2,319	0	0	0	0	738
656+00	17	0	0	0	0	63	0	0	0	0	3,140	20	2,319	0	0	0	0	801
657+00	15	0	0	0	0	58	0	0	0	0	3,198	20	2,319	0	0	0	0	859
658+00	13	0	0	0	0	51	0	0	0	0	3,250	20	2,319	0	0	0	0	911
659+00	12	0	0	0	0	47	0	0	0	0	3,297	20	2,319	0	0	0	0	958
659+50	9	0	0	0	0	20	0	0	0	0	3,316	20	2,319	0	0	0	0	977
COLUMN TOTALS						3,316	20	1,855	0	0								

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USH 12/18 TEMPORARY WIDENING (STAGE 2) STA 663+55'BE' - 669+00'BE'

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
663+55	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
664+00	15	0	0	0	0	24	0	0	0	0	24	0	0	0	0	0	0	24
665+00	11	0	0	0	0	48	0	0	0	0	73	0	0	0	0	0	0	73
666+00	11	0	0	0	0	41	0	0	0	0	113	0	0	0	0	0	0	113
667+00	14	0	0	0	0	45	0	0	0	0	158	0	0	0	0	0	0	158
668+00	14	0	0	0	0	52	0	0	0	0	210	0	0	0	0	0	0	210
669+00	14	0	0	0	0	52	0	0	0	0	262	0	0	0	0	0	0	262
COLUMN TOTALS						262	0	0	0	0								

USH 12/18 TEMPORARY WIDENING (STAGE 2) STA 688+35'BE' - 710+38'BE'

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
688+35	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
689+00	9	0	0	0	0	18	0	0	0	0	18	0	0	0	0	0	0	18
689+72	63	0	0	0	0	96	0	0	0	0	114	0	1	0	0	0	0	114
690+00	76	0	0	0	0	72	0	0	0	0	186	0	1	0	0	0	0	185
691+00	130	0	2	0	0	381	0	5	0	0	567	0	7	0	0	0	0	560
692+00	133	0	3	0	0	487	0	9	0	0	1,054	0	19	0	0	0	0	1,036
692+90	98	0	2	0	0	385	0	7	0	0	1,439	0	28	0	0	0	0	1,412
693+00	94	0	2	0	0	36	0	1	0	0	1,475	0	28	0	0	0	0	1,446
693+35	86	0	2	0	0	116	0	2	0	0	1,591	0	32	0	0	0	0	1,560
694+00	32	0	29	18	0	142	0	38	22	0	1,733	0	62	33	0	13	0	1,671
695+00	11	0	80	36	0	79	0	202	100	0	1,813	0	240	183	0	73	0	1,573
696+00	47	0	93	39	0	108	0	320	138	0	1,920	0	536	390	0	156	0	1,384
696+22	11	0	185	39	0	24	0	113	32	0	1,944	0	654	438	0	175	0	1,290
697+00	70	0	22	28	0	118	0	300	97	0	2,062	0	956	583	0	233	0	1,106
698+00	51	0	13	40	0	225	0	66	127	0	2,287	0	943	773	0	309	0	1,344
699+00	30	0	8	0	0	151	0	40	74	0	2,437	0	937	884	0	354	0	1,500
700+00	16	0	8	0	0	85	0	31	0	0	2,522	0	975	884	0	354	0	1,547
701+00	22	0	8	0	0	70	0	31	0	0	2,592	0	1,014	884	0	354	0	1,578
701+44	28	0	6	0	0	40	0	12	0	0	2,632	0	1,028	884	0	354	0	1,604
701+89	26	0	7	0	0	45	0	11	0	0	2,677	0	1,042	884	0	354	0	1,635
702+00	26	0	7	0	0	11	0	3	0	0	2,688	0	1,045	884	0	354	0	1,642
703+00	23	0	5	0	0	89	0	22	0	0	2,777	0	1,073	884	0	354	0	1,703
704+00	21	0	5	0	0	80	0	18	0	0	2,857	0	1,096	884	0	354	0	1,761
705+00	18	0	3	0	0	72	0	14	0	0	2,929	0	1,114	884	0	354	0	1,814
706+00	10	0	1	0	0	51	0	7	0	0	2,979	0	1,124	884	0	354	0	1,855
707+00	9	0	0	0	0	33	0	2	0	0	3,012	0	1,126	884	0	354	0	1,887
708+00	10	0	0	0	0	35	0	0	0	0	3,047	0	1,126	884	0	354	0	1,922
709+00	11	0	0	0	0	39	0	0	0	0	3,086	0	1,126	884	0	354	0	1,961
710+00	11	0	0	0	0	41	0	0	0	0	3,127	0	1,126	884	0	354	0	2,002
710+38	9	0	0	0	0	15	0	0	0	0	3,142	0	1,126	884	0	354	0	2,016
COLUMN TOTALS						3,142	0	1,254	590	0								

USH 12/18 TEMPORARY WIDENING (STAGE 3) STA 621+95'BE' - 643+83'BE'

STATION	AREA (SF)					INCREMENTAL VOL (CY) (UNADJUSTED)					CUMULATIVE VOL (CY)							MASS ORDINATE
	CUT	SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	NOTE 9
621+95	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
622+00	27	0	0	0	0	5	0	0	0	0	5	0	0	0	0	0	0	5
623+00	35	0	0	0	0	116	0	0	0	0	120	1	0	0	0	0	0	120
624+00	41	0	0	0	0	141	0	0	0	0	261	2	0	0	0	0	0	261
625+00	57	0	0	0	0	181	0	0	0	0	443	3	0	0	0	0	0	443
626+00	85	0	0	0	0	262	0	0	0	0	705	4	0	0	0	0	0	705
627+00	148	0	0	0	0	431	0	0	0	0	1,136	5	0	0	0	0	0	1,136
627+70	114	0	0	0	0	340	0	0	0	0	1,476	6	0	0	0	0	0	1,476
628+00	80	0	0	0	0	108	0	0	0	0	1,584	7	0	0	0	0	0	1,584
628+50	45	0	18	0	0	116	0	17	0	0	1,700	8	21	0	0	0	0	1,679
628+60	40	0	18	0	0	15	0	6	0	0	1,715	9	29	0	0	0	0	1,686
629+00	29	0	19	0	0	51	0	27	0	0	1,766	10	63	0	0	0	0	1,703
630+00	12	0	20	0	0	75	0	71	0	0	1,841	11	152	0	0	0	0	1,689
631+00	9	0	21	0	0	38	0	77	0	0	1,879	12	248	0	0	0	0	1,631
632+00	9	0	22	0	0	32	0	81	0	0	1,911	13	349	0	0	0	0	1,562
632+66	5	0	22	0	0	16	0	54	0	0	1,927	14	416	0	0	0	0	1,511
633+00	3	0	21	0	0	5	0	28	0	0	1,932	15	451	0	0	0	0	1,481
633+46	2	0	20	0	0	4	0	35	0	0	1,936	16	495	0	0	0	0	1,441
634+00	2	0	18	0	0	4	0	38	0	0	1,940	17	542	0	0	0	0	1,398
634+26	2	0	18	0	0	2	0	17	0	0	1,942	18	564	0	0	0	0	1,378
635+00	7	0	21	0	0	13	0	54	0	0	1,954	19	631	0	0	0	0	1,323
635+26	6	0	19	0	0	6	0	19	0	0	1,960	20	655	0	0	0	0	1,305
636+00	5	0	17	0	0	15	0	50	0	0	1,975	21	717	0	0	0	0	1,258
637+00	4	0	15	0	0	16	0	58	0	0	1,991	22	790	0	0	0	0	1,201
637+57	4	0	14	0	0	9	0	30	0	0	2,000	23	828	0	0	0	0	1,173
637+87	6	0	13	0	0	6	0	15	0	0	2,006	24	846	0	0	0	0	1,160
638+00	5	0	13	0	0	3	0	6	0	0	2,009	25	854	0	0	0	0	1,155
639+00	7	0	12	0	0	21	0	46	0	0	2,030	26	911	0	0	0	0	1,119
640+00	7	0	11	0	0	26	0	43	0	0	2,056	27	965	0	0	0	0	1,091
640+79	8	0	12	0	0	23	0	34	0	0	2,079	28	1,007	0	0	0	0	1,072
641+00	9	0	12	0	0	7	0	9	0	0	2,086	29	1,019	0	0	0	0	1,067
641+79	9	0	14	0	0	27	0	39	0	0	2,113	30	1,068	0	0	0	0	1,045
642+00	10	0	15	0	0	7	0	11	0	0	2,120	31	1,081	0	0	0	0	1,038
642+59	11	0	15	0	0	23	0	33	0	0	2,143	32	1,123	0	0	0	0	1,020
642+63	11	0	15	0	0	1	0	2	0	0	2,144	33	1,125	0	0	0	0	1,019
643+00	12	0	16	0	0	15	0	21	0	0	2,160	34	1,152	0	0	0	0	1,008
643+39	7	0	11	0	0	14	0	20	0	0	2,174	35	1,177	0	0	0	0	997
643+83	0	0	0	0	0	6	0	9	0	0	2,180	36	1,188	0	0	0	0	992
COLUMN TOTALS						2,180	0	950	0	0								

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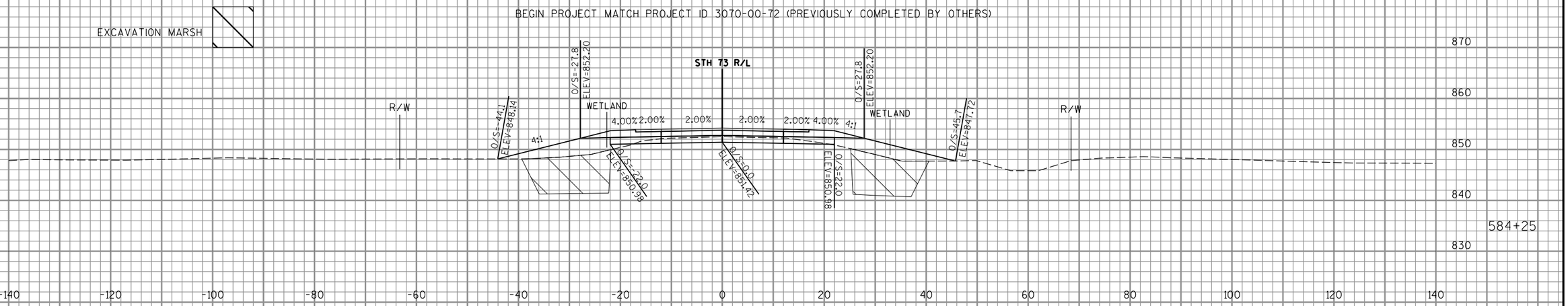
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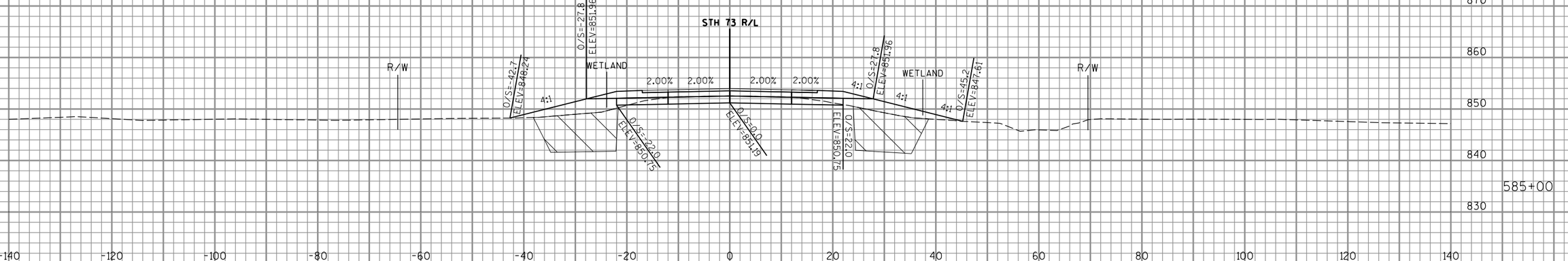
USH 12/18 TEMPORARY WIDENING (STAGE 3) STA 693+18'BE' - 708+75'BE'

STATION	AREA (SF) CUT	AREA (SF) SALVAGED UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	EBS	INCREMENTAL VOL (CY) (UNADJUSTED) CUT NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	MARSH EXC	EBS	CUMULATIVE VOL (CY) CUT 1.00 NOTE 1	SALVAGED UNUSABLE PAVEMENT MATERIAL NOTE 2	EXPANDED FILL 1.25 NOTE 4	EXPANDED MARSH BACKFILL 1.50 NOTE 5	EXPANDED EBS BACKFILL 1.30 NOTE 6	REDUCED MARSH IN FILL 0.60 NOTE 7	REDUCED EBS IN FILL 0.80 NOTE 8	MASS ORDINATE NOTE 9
693+18	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
694+00	0	0	45	0	0	0	0	70	0	0	0	0	88	0	0	0	0	-88
695+00	0	0	56	0	0	0	0	187	0	0	0	0	322	0	0	0	0	-322
695+88	0	0	39	0	0	0	0	155	0	0	0	0	516	0	0	0	0	-516
696+00	0	0	39	0	0	0	0	17	0	0	0	0	538	0	0	0	0	-538
696+39	0	0	32	0	0	0	0	51	0	0	0	0	602	0	0	0	0	-602
697+00	18	0	54	0	0	20	0	97	0	0	20	0	723	0	0	0	0	-704
697+52	0	0	73	0	0	17	0	122	0	0	37	0	876	0	0	0	0	-839
698+00	3	0	69	0	0	2	0	127	0	0	39	0	1,034	0	0	0	0	-995
698+88	37	0	65	0	0	65	0	219	0	0	104	0	1,308	0	0	0	0	-1,204
699+00	16	0	66	0	0	12	0	29	0	0	116	0	1,345	0	0	0	0	-1,229
699+68	37	0	38	0	0	66	0	130	0	0	181	0	1,508	0	0	0	0	-1,326
700+00	27	0	29	0	0	38	0	40	0	0	219	0	1,558	0	0	0	0	-1,339
700+48	34	0	21	0	0	53	0	45	0	0	272	0	1,614	0	0	0	0	-1,342
701+00	50	0	22	0	0	80	0	42	0	0	353	0	1,667	0	0	0	0	-1,314
701+28	47	0	23	0	0	50	0	24	0	0	403	0	1,696	0	0	0	0	-1,293
702+00	51	0	21	0	0	131	0	59	0	0	534	0	1,769	0	0	0	0	-1,235
702+80	56	0	6	0	0	159	0	40	0	0	693	0	1,819	0	0	0	0	-1,126
703+00	61	0	6	0	0	43	0	5	0	0	737	0	1,825	0	0	0	0	-1,089
704+00	59	0	5	0	0	223	0	20	0	0	959	0	1,850	0	0	0	0	-891
705+00	59	0	2	0	0	219	0	12	0	0	1,178	0	1,865	0	0	0	0	-687
706+00	10	0	0	0	0	129	0	4	0	0	1,307	0	1,870	0	0	0	0	-563
707+00	11	0	0	0	0	41	0	0	0	0	1,348	0	1,870	0	0	0	0	-522
708+00	9	0	0	0	0	37	0	0	0	0	1,385	0	1,870	0	0	0	0	-485
708+75	8	0	0	0	0	23	0	0	0	0	1,408	0	1,870	0	0	0	0	-462
				COLUMN TOTALS		1,408	0	1,496	0	0								

BEGIN PROJECT MATCH PROJECT ID 3070-00-72 (PREVIOUSLY COMPLETED BY OTHERS)

EXCAVATION MARSH





10 FT
10 FT

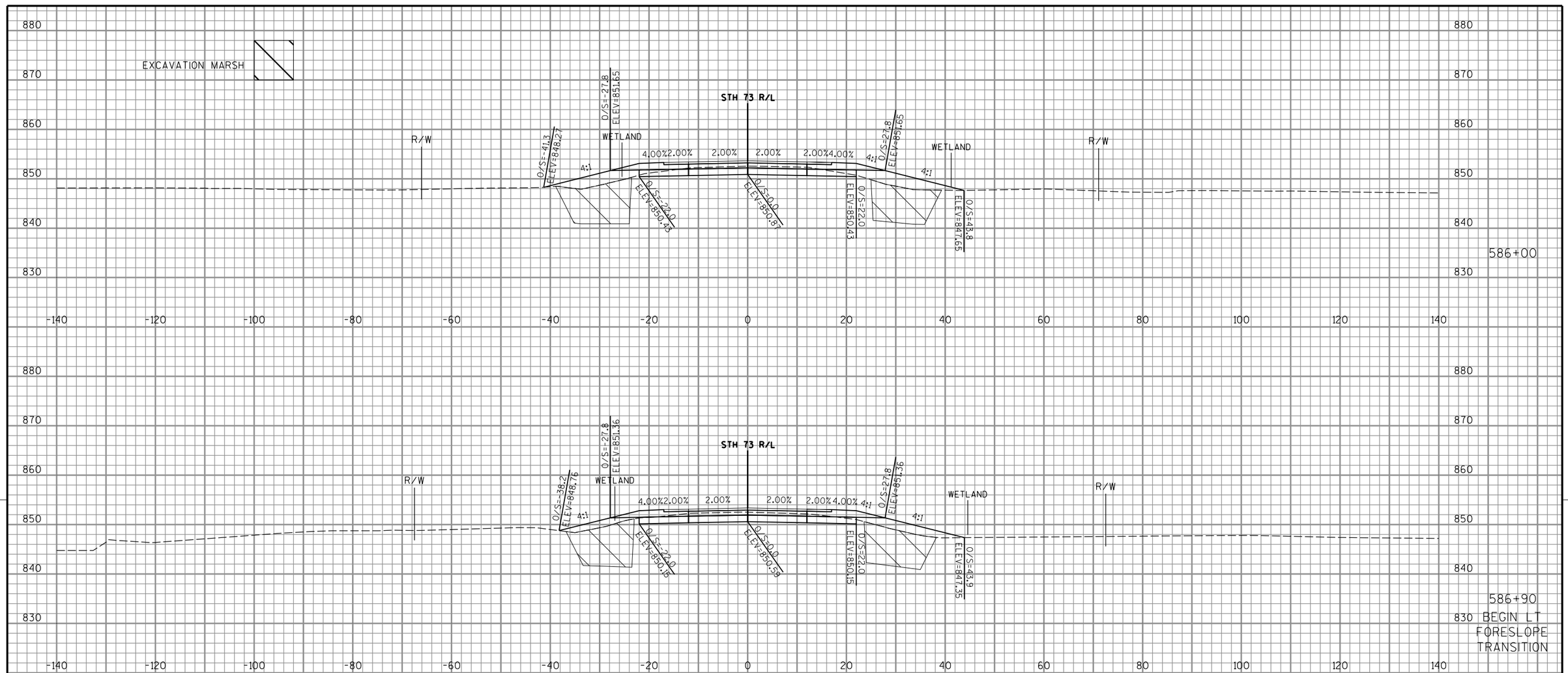
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 607	E

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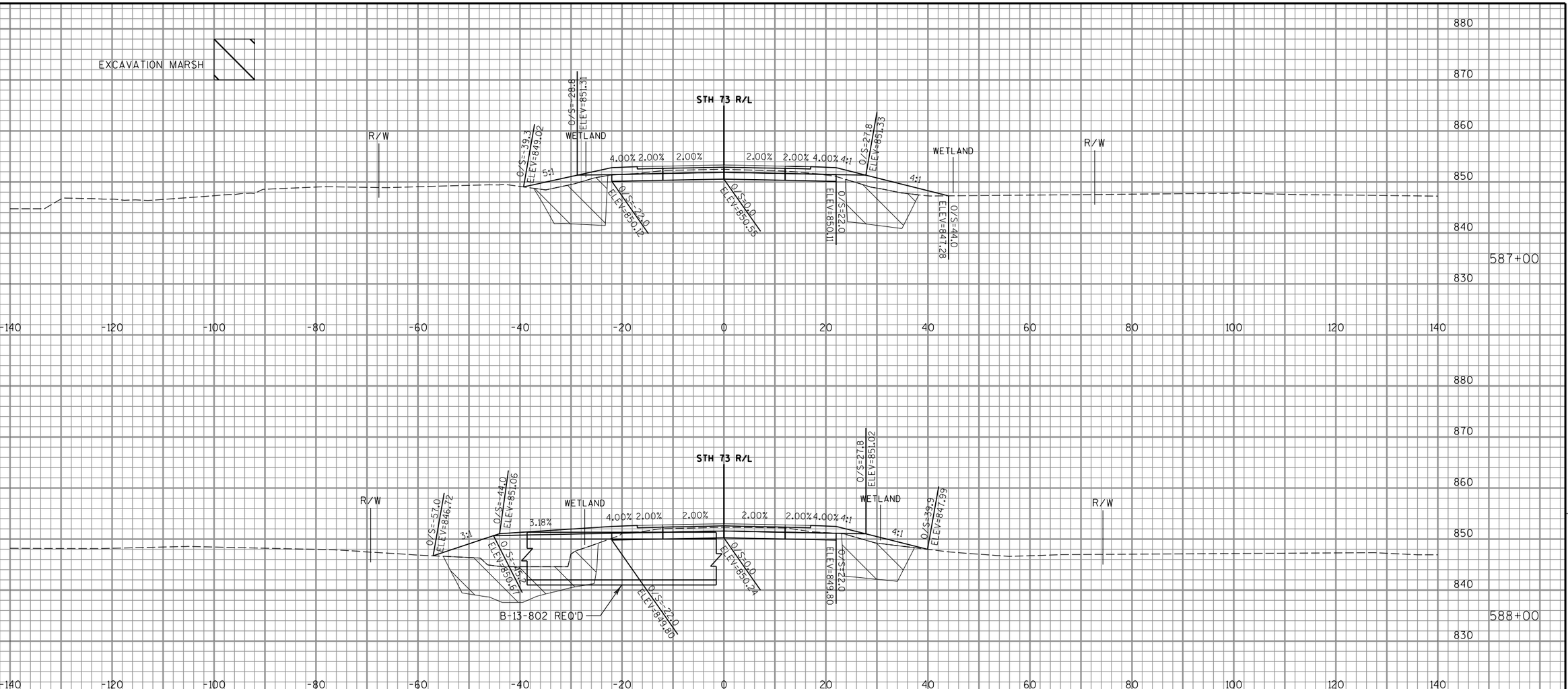
WISDOT/CADDS SHEET 21



9

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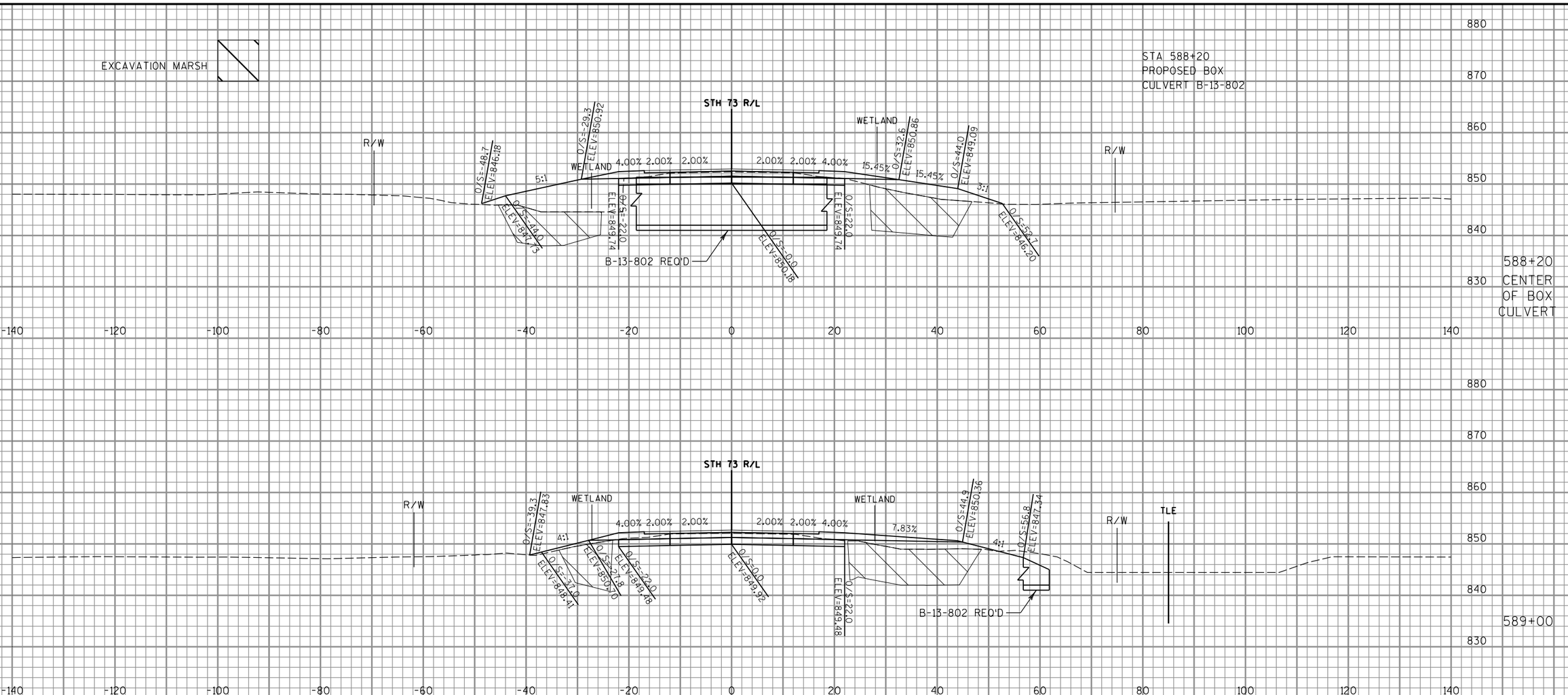
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 609	E

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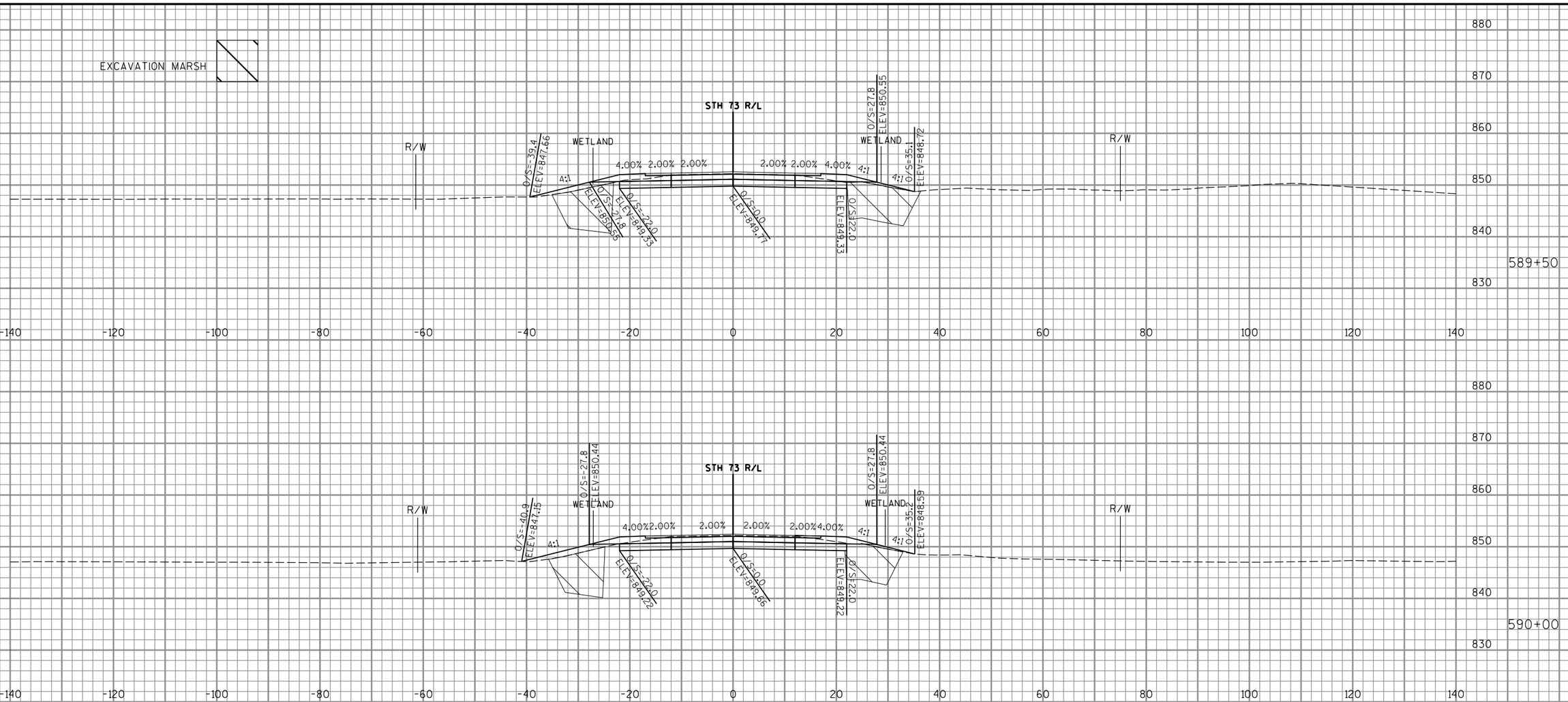
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 610	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

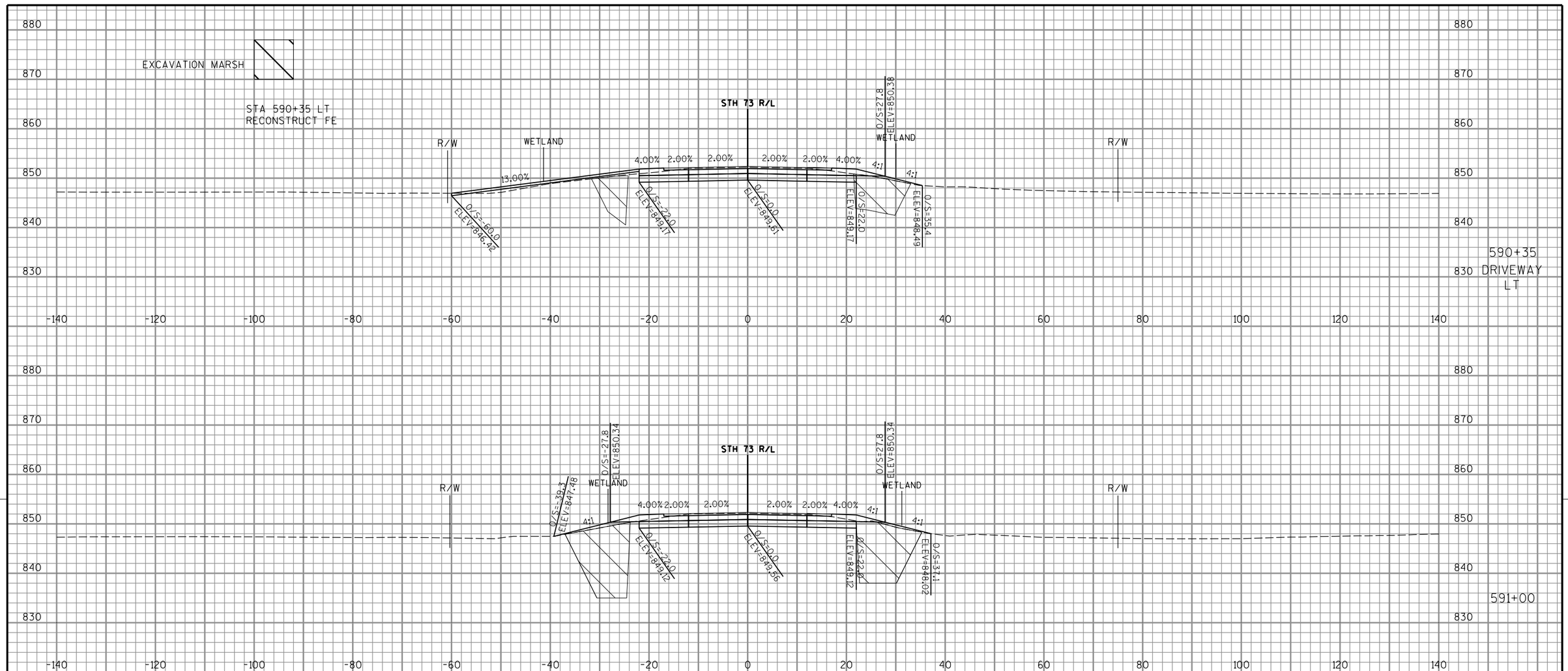
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 611	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

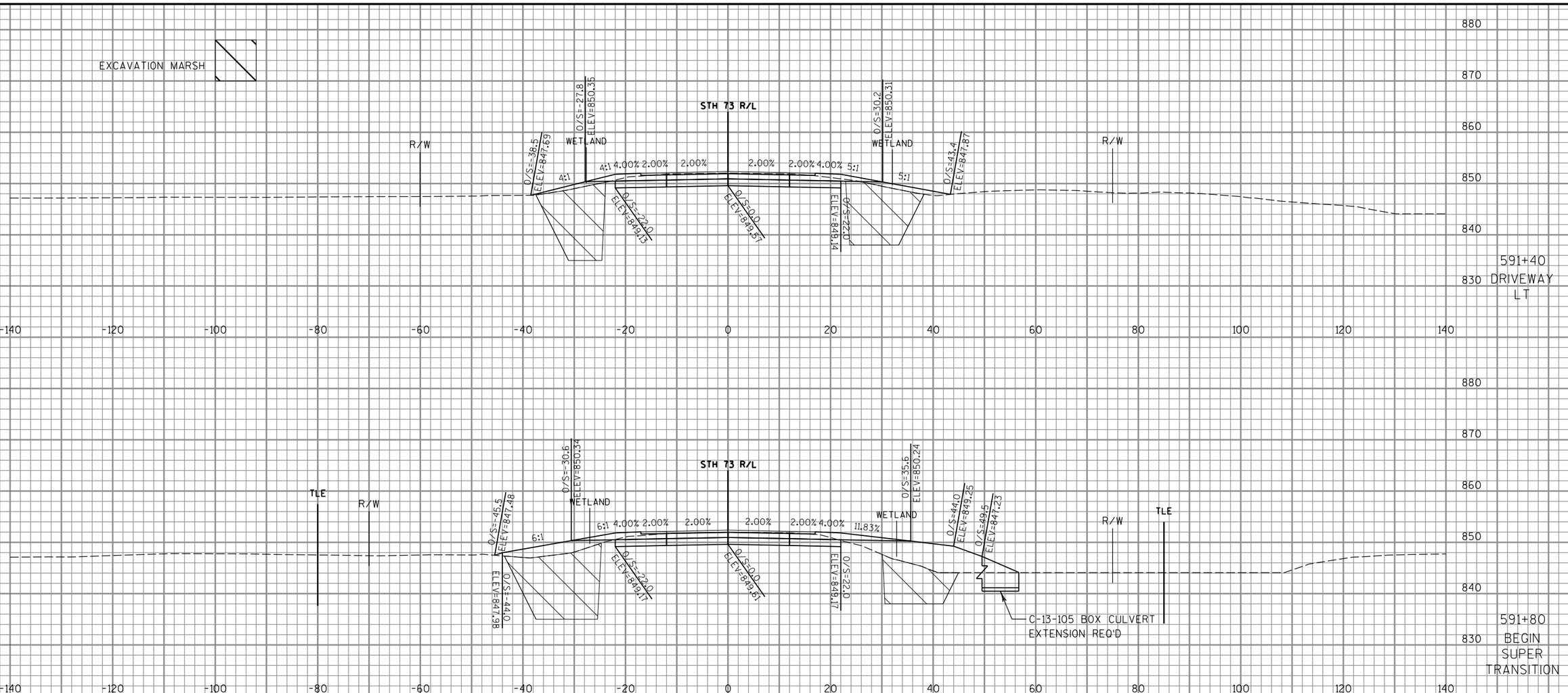
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 612	E

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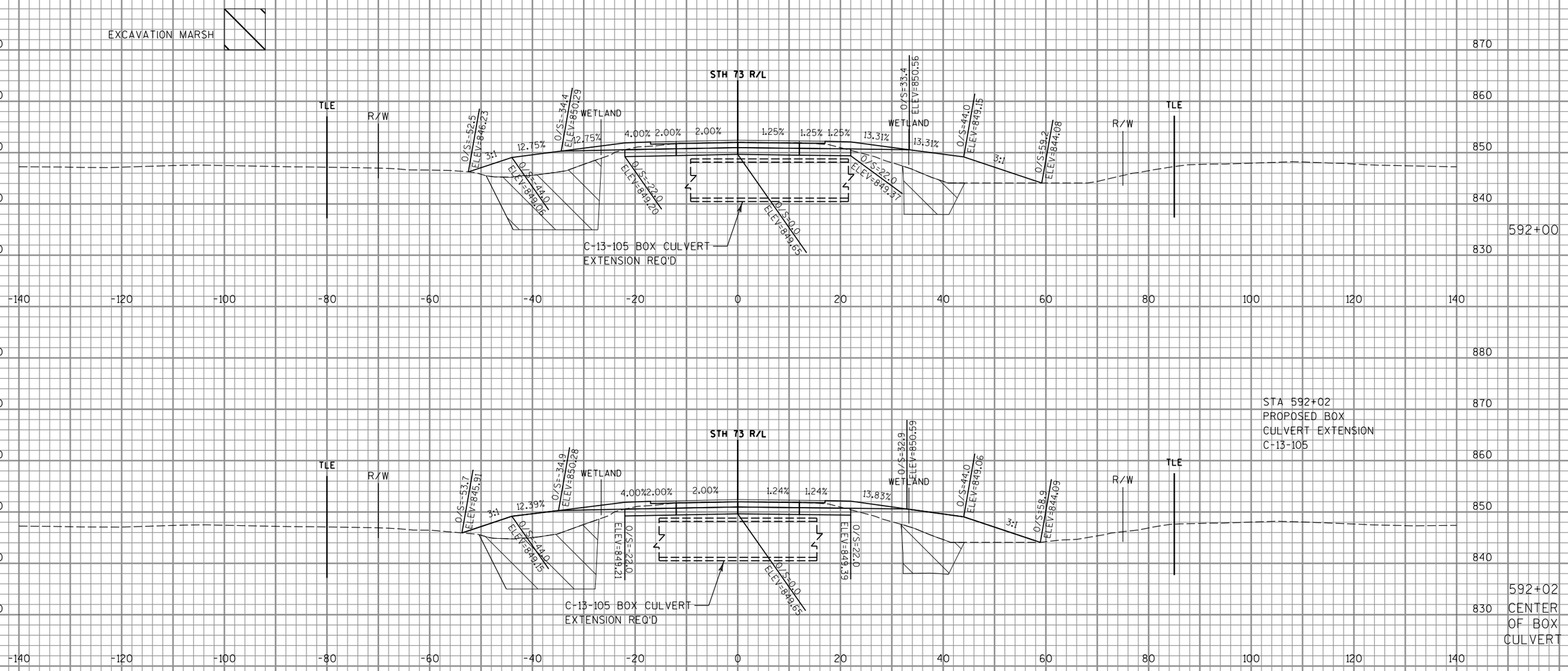
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 613	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

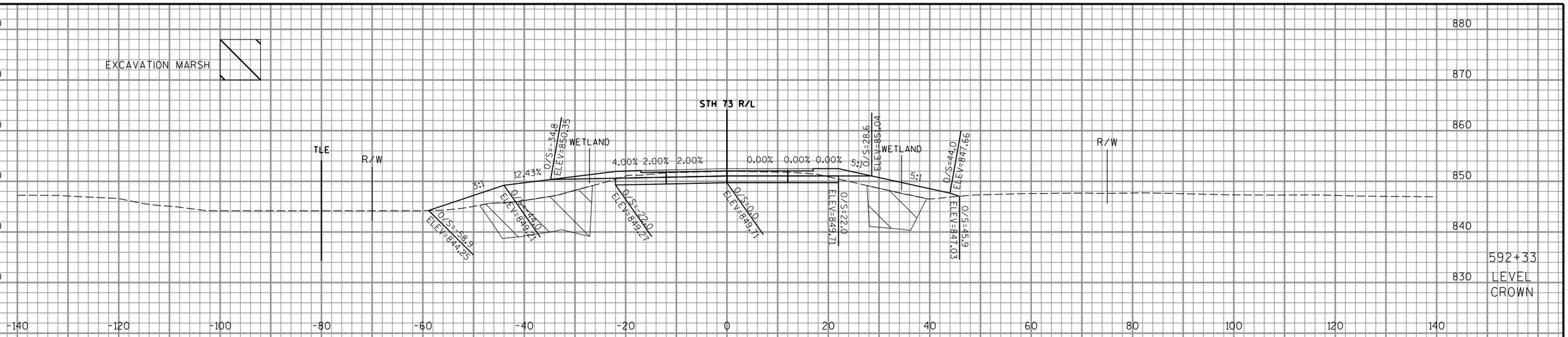
WISDOT/CADDS SHEET 21

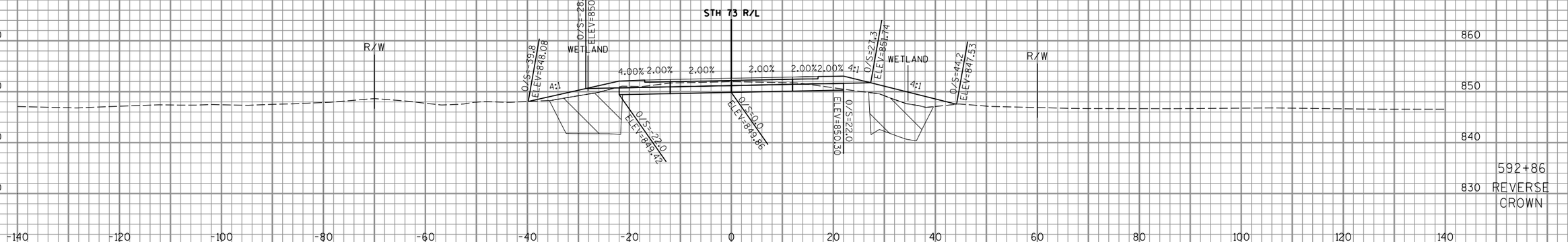


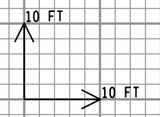
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 614	E







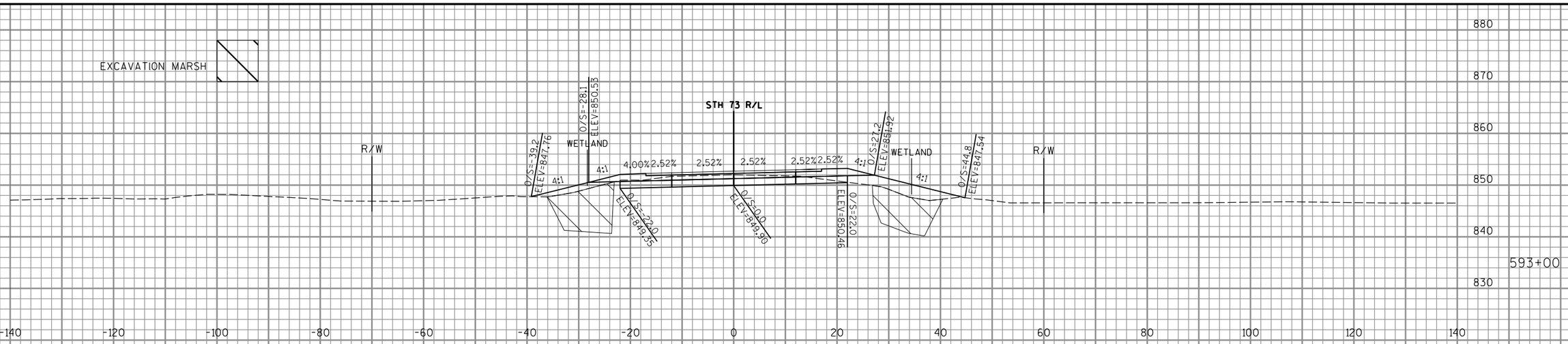
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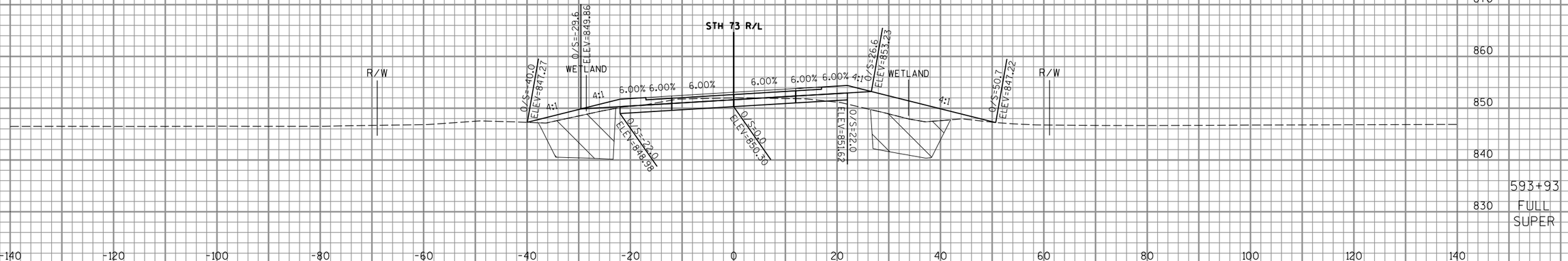
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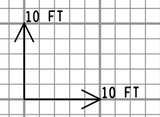
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 615	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



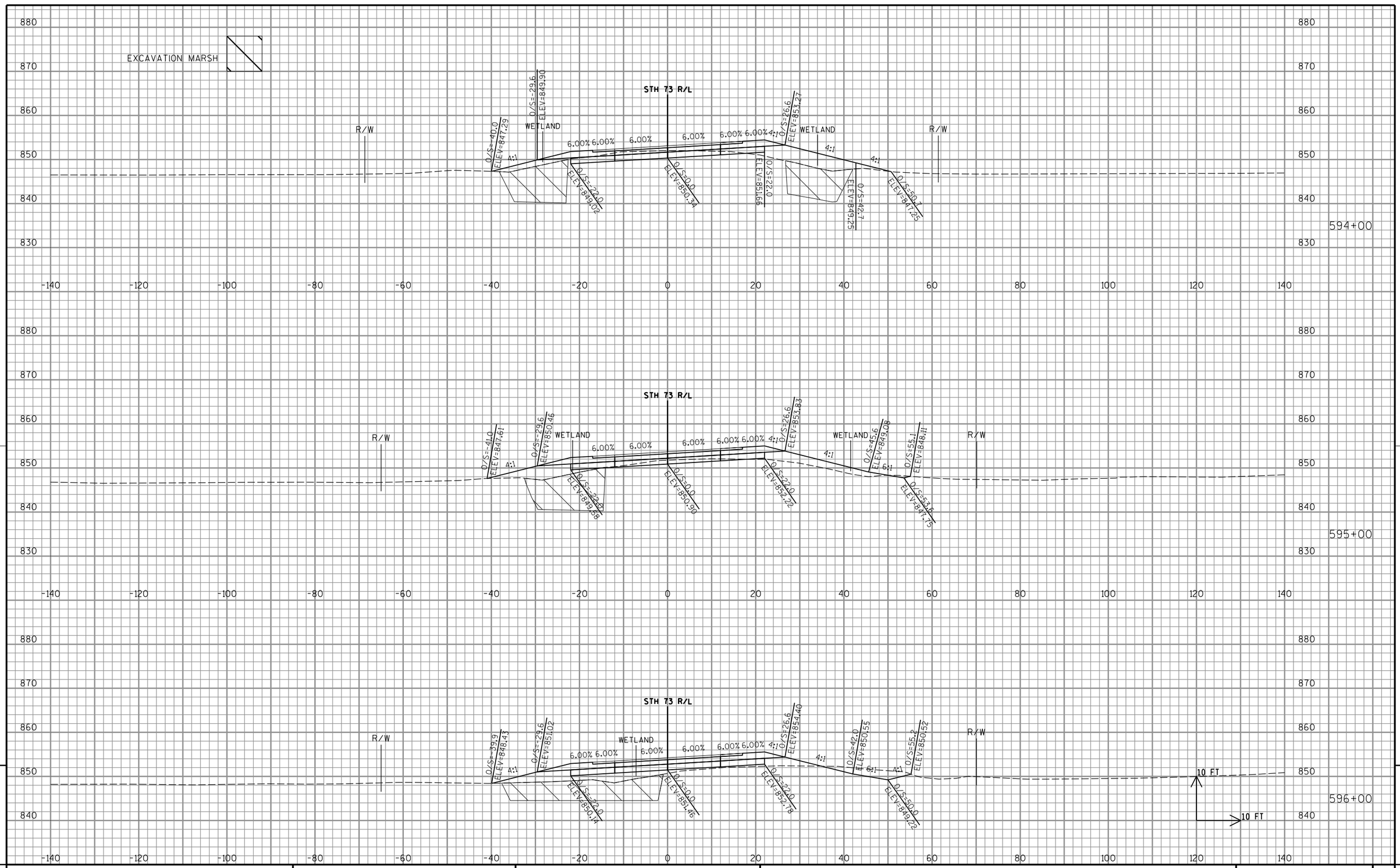




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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 616	E



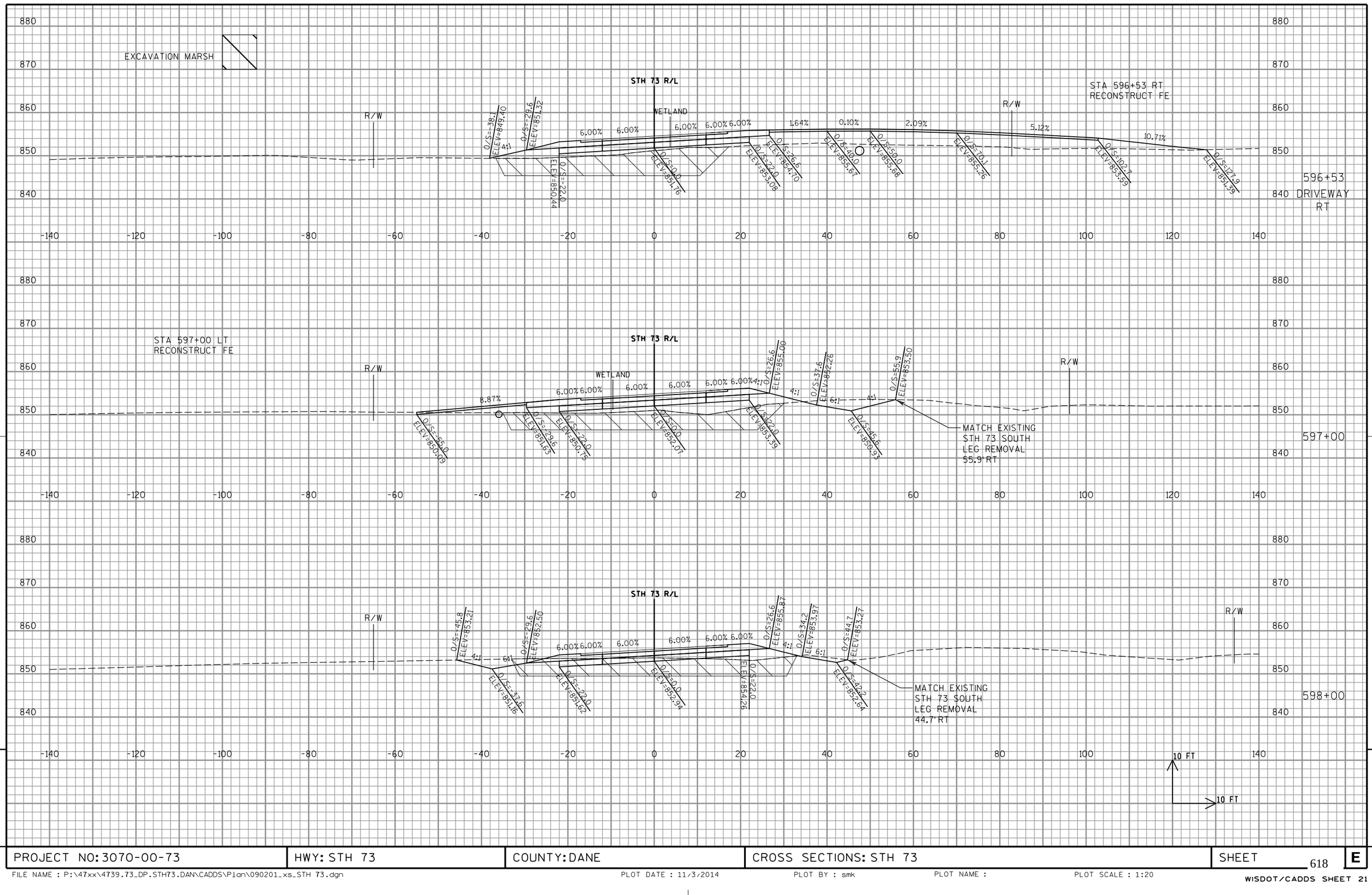
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 617	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9

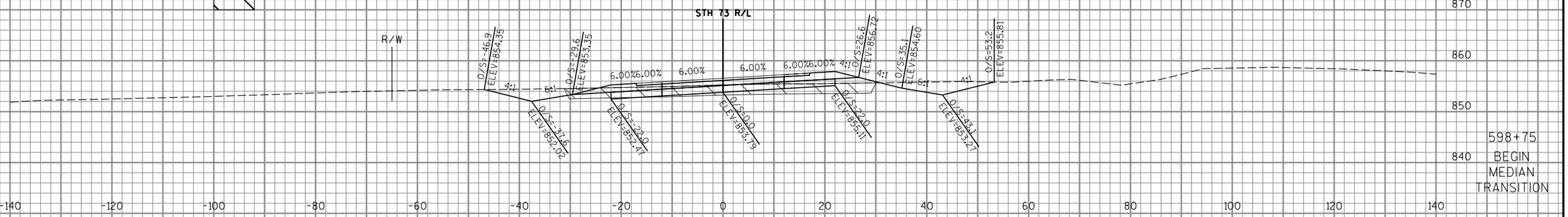


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 618	E

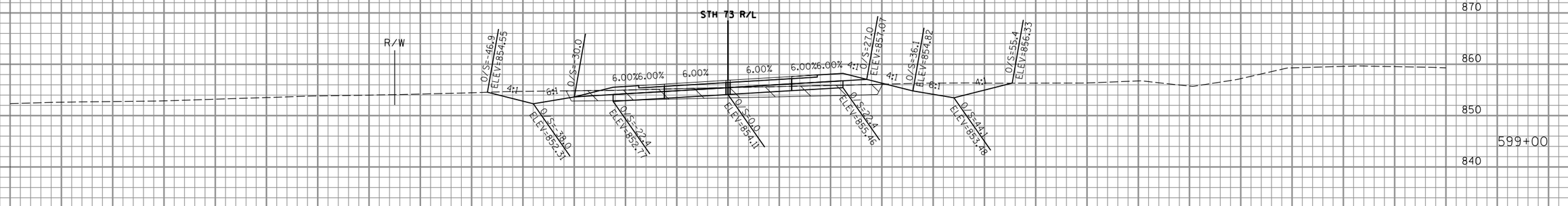
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WISDOT/CADDS SHEET 21

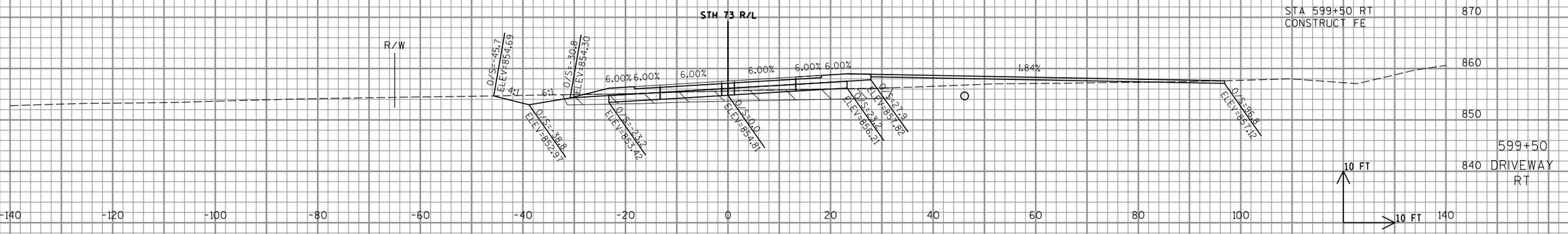
EXCAVATION MARSH



598+75
BEGIN
MEDIAN
TRANSITION



599+00



599+50
DRIVEWAY
RT

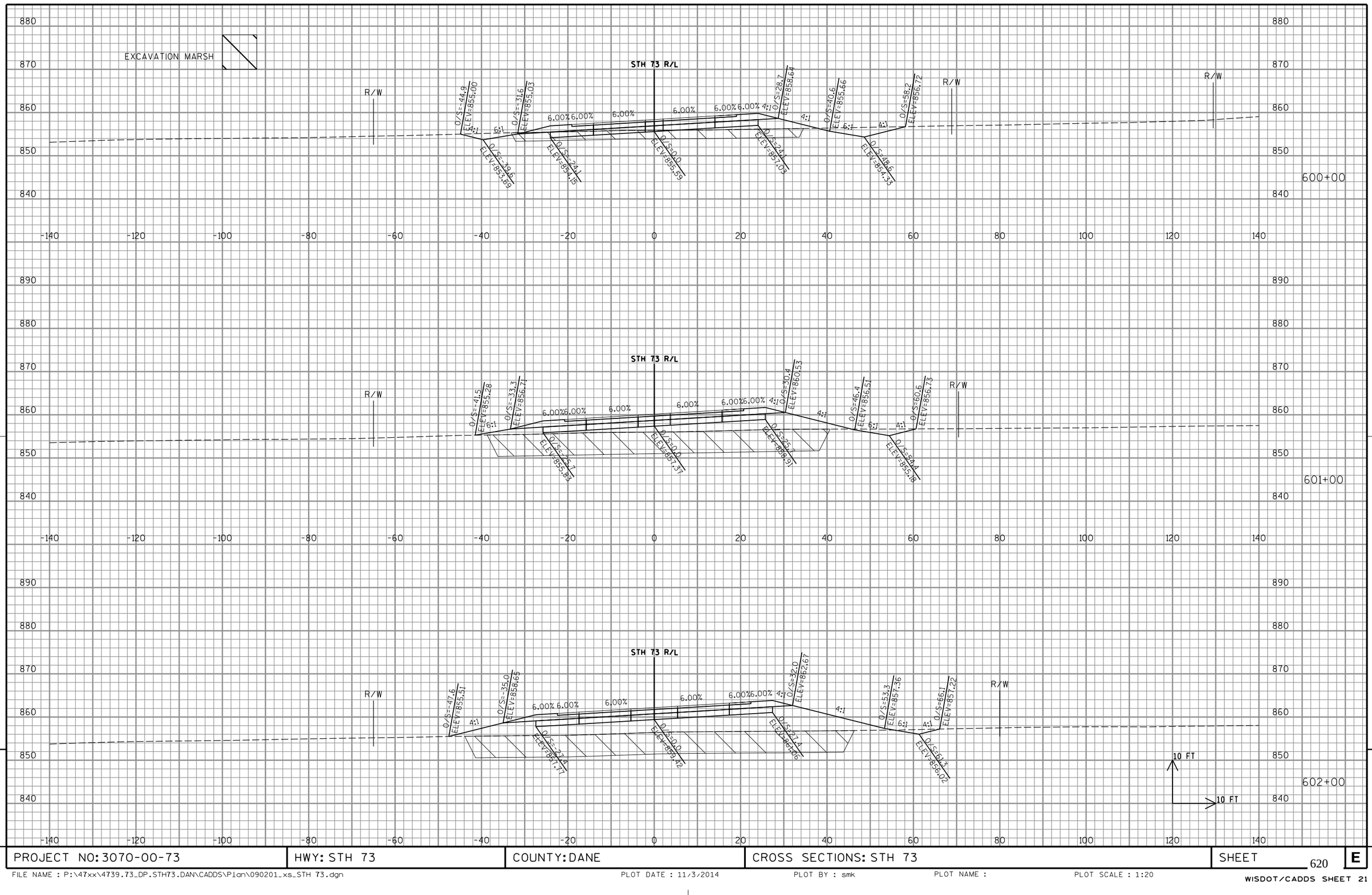
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 619	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

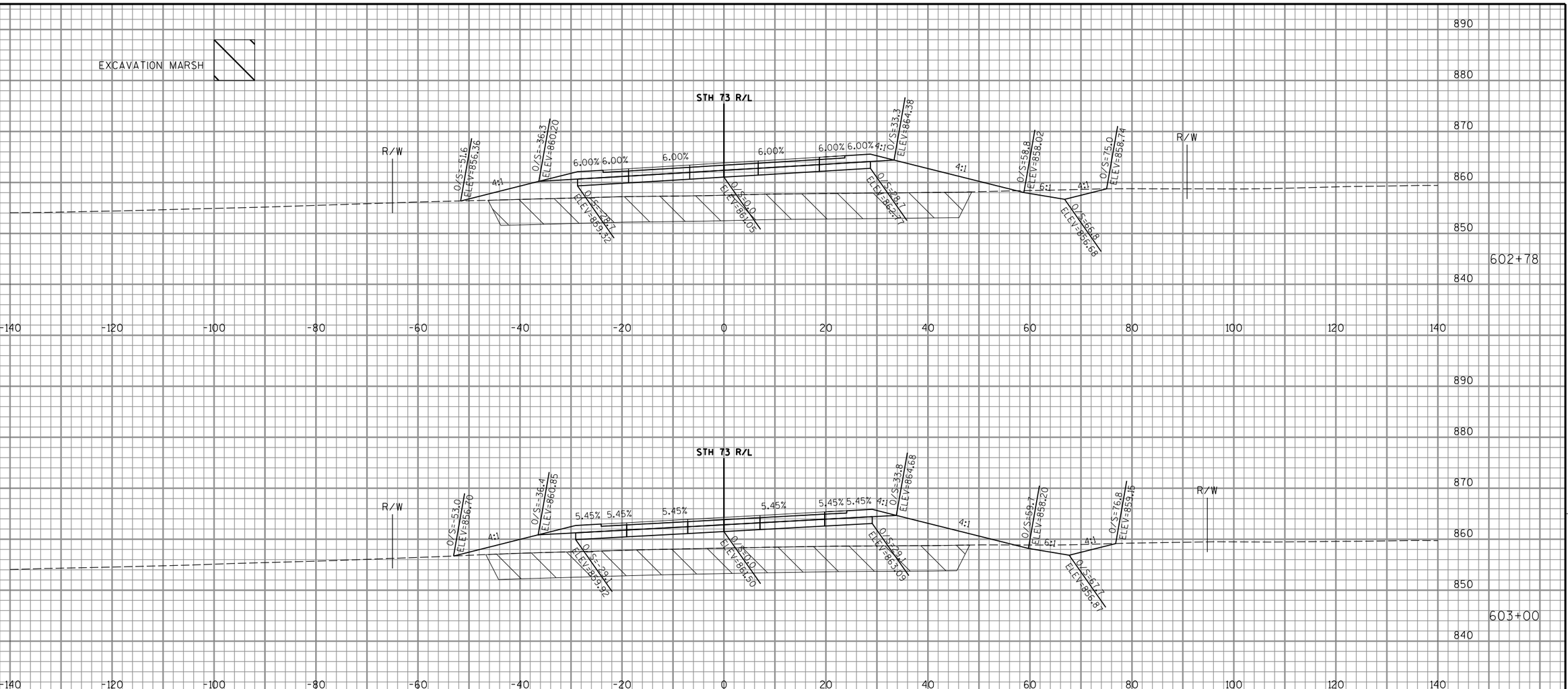


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 620	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

EXCAVATION MARSH



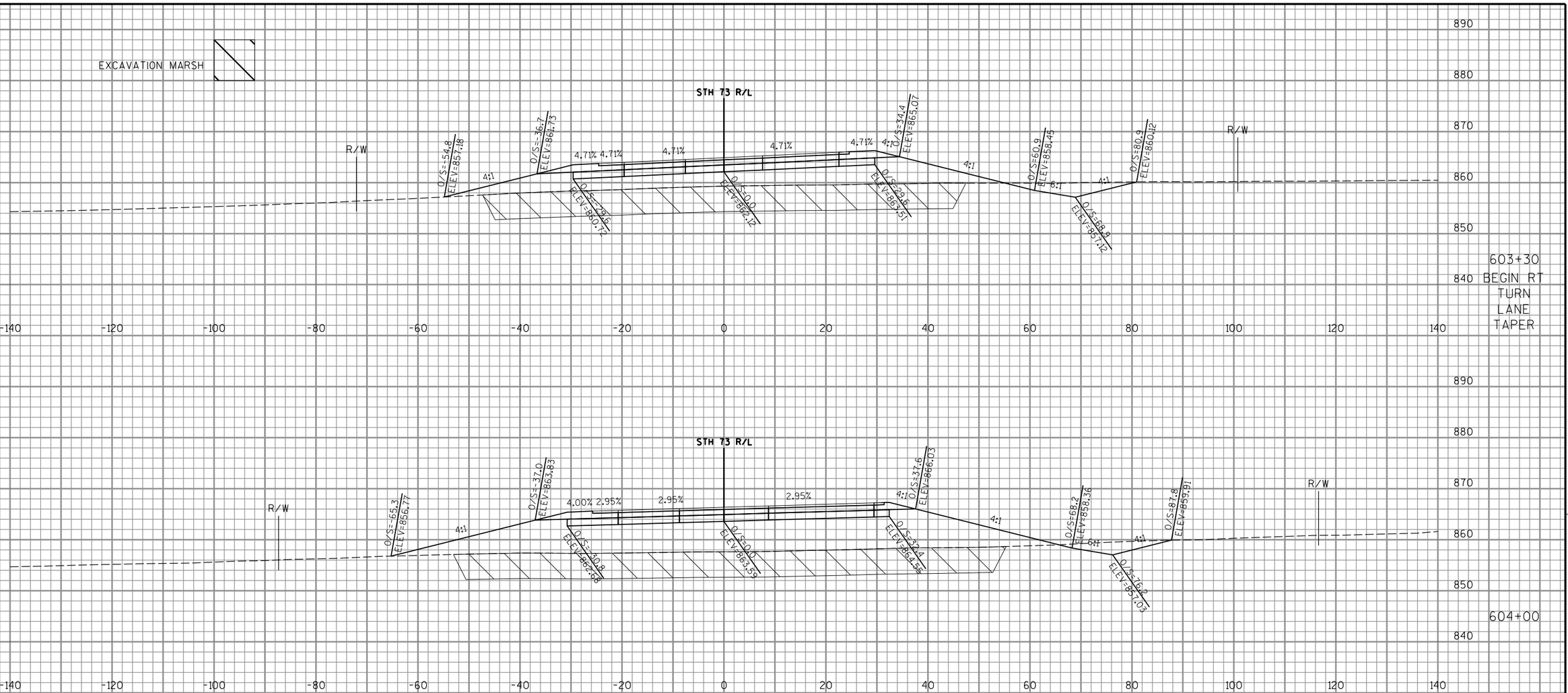
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 621	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



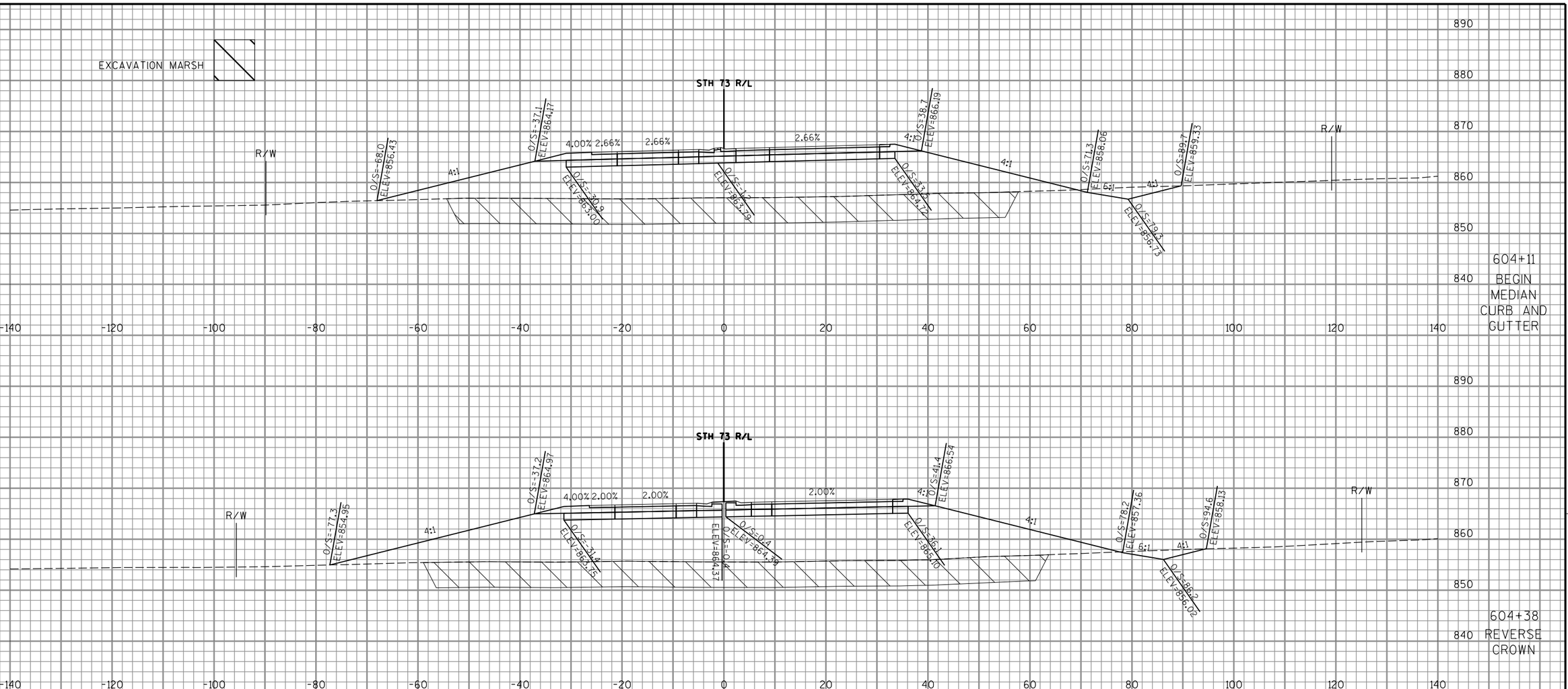
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 622	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

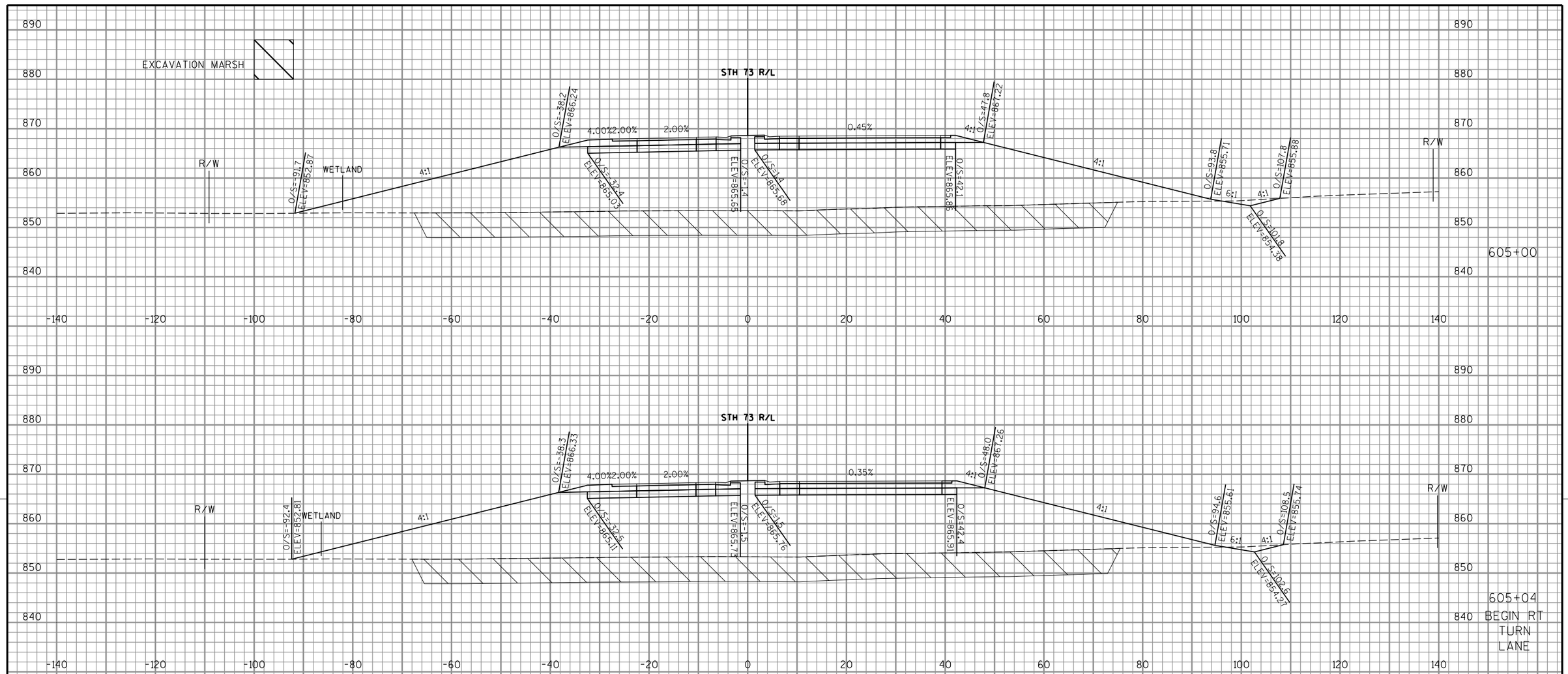
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 623	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

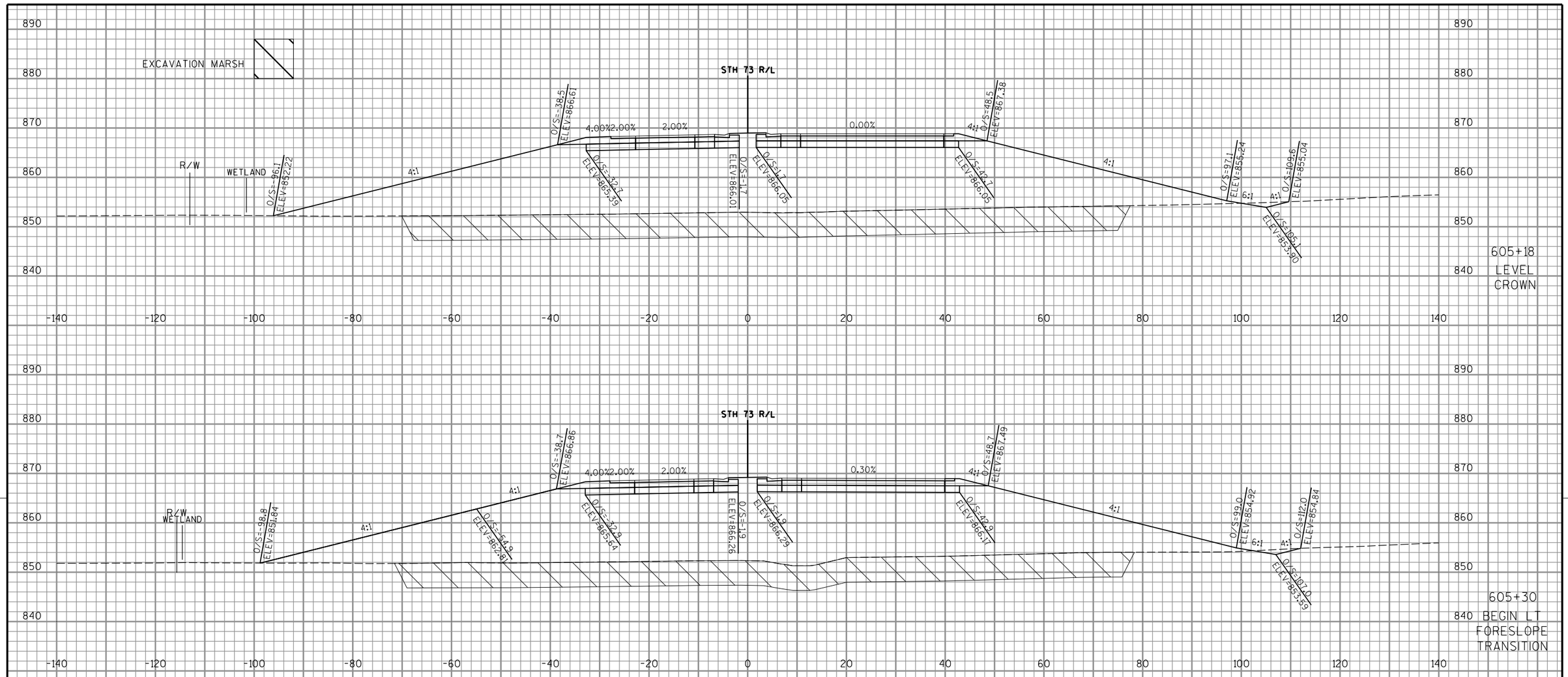
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 624	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

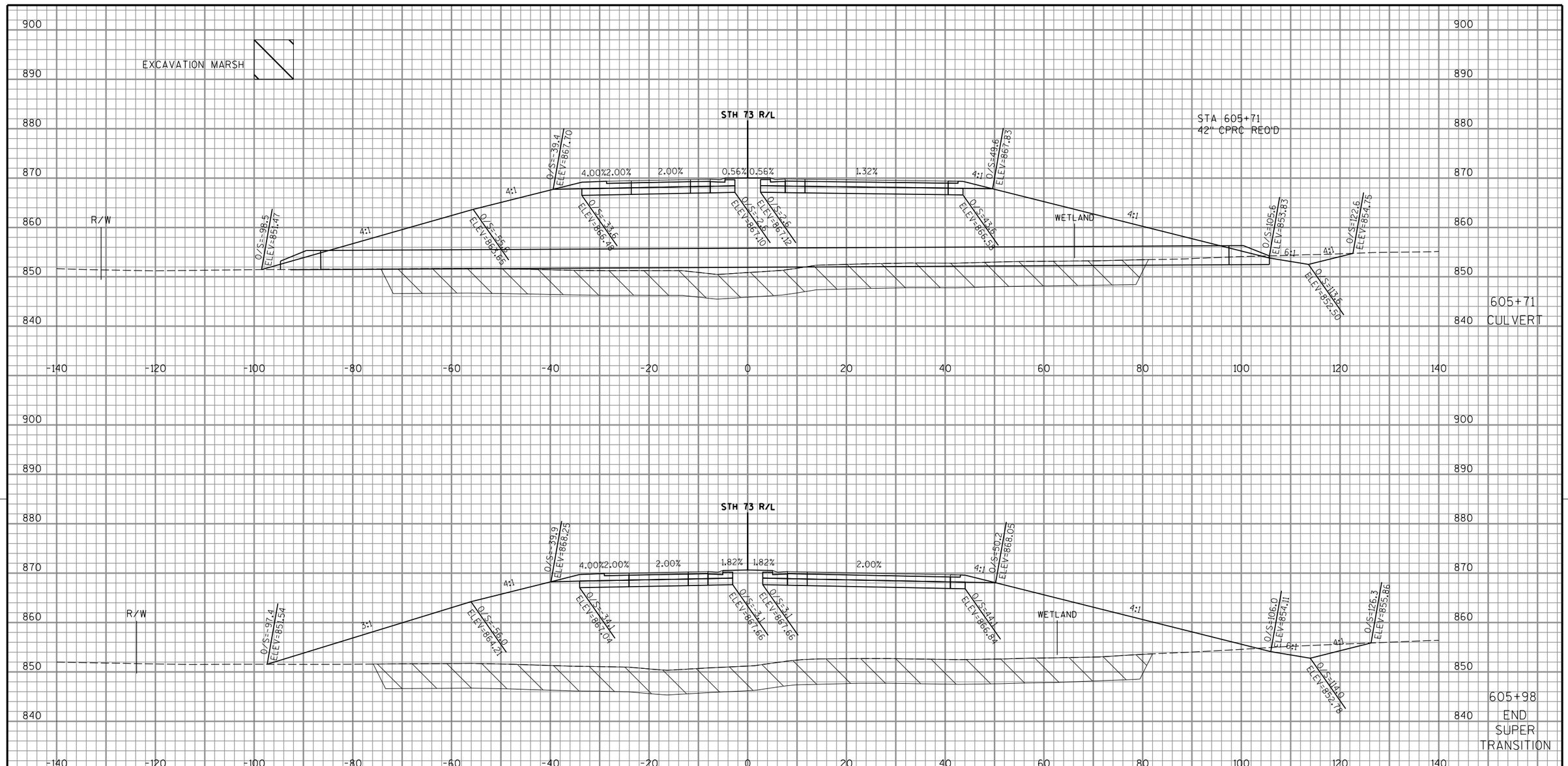
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 625	E

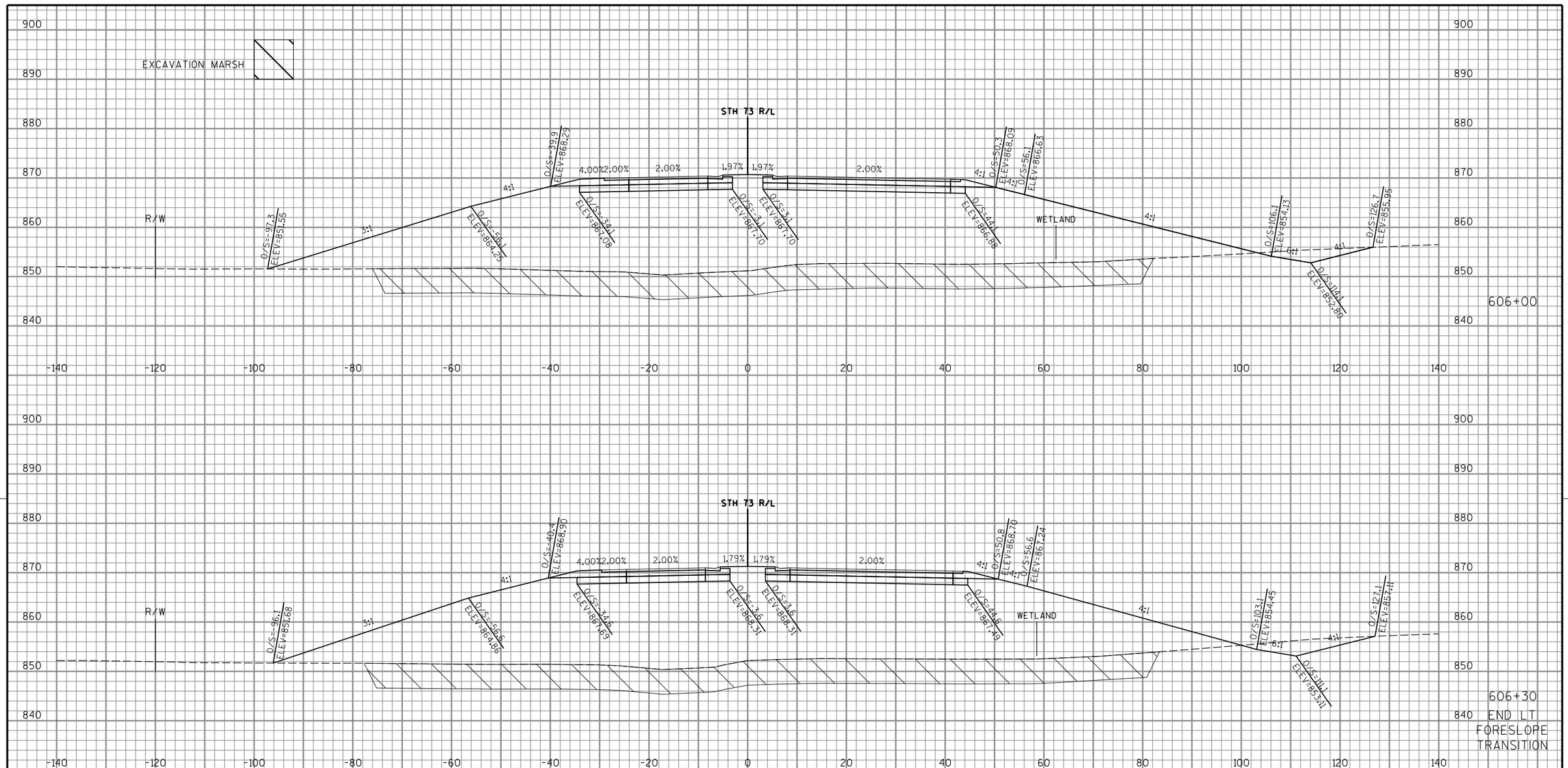
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WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 626	E

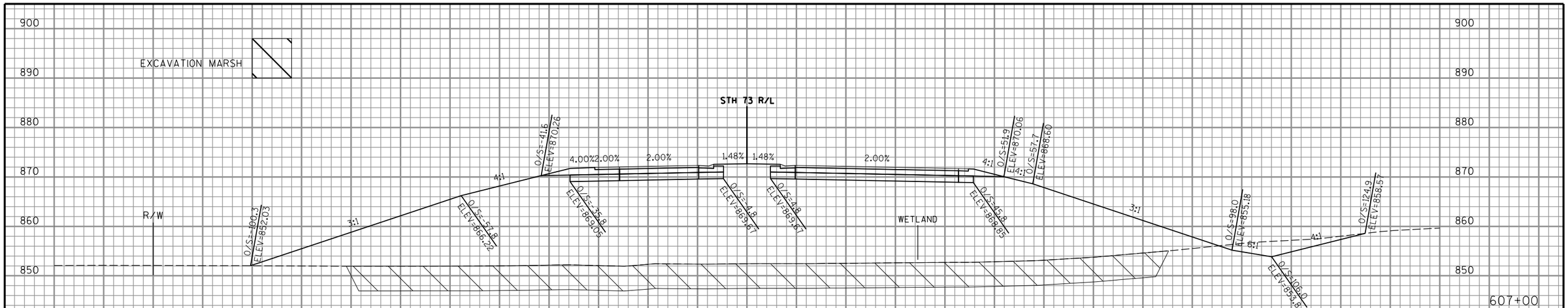
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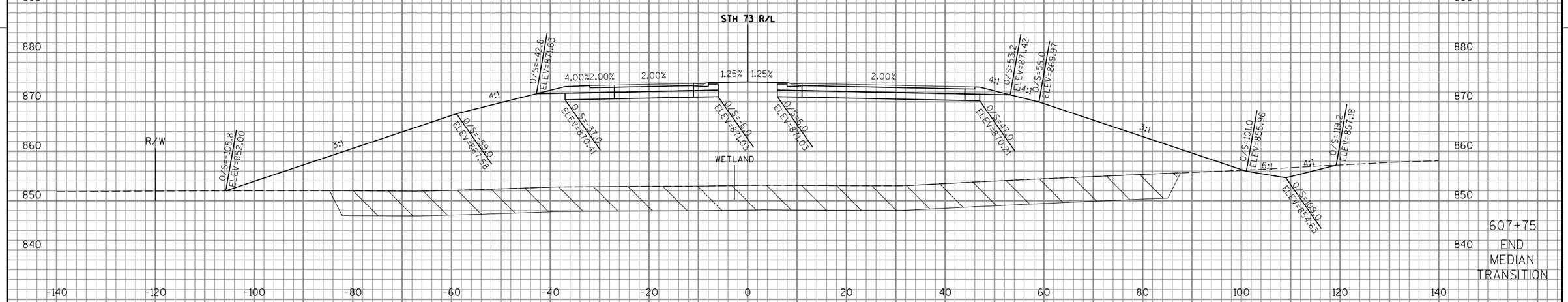


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 627	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

EXCAVATION MARSH





10 FT
10 FT

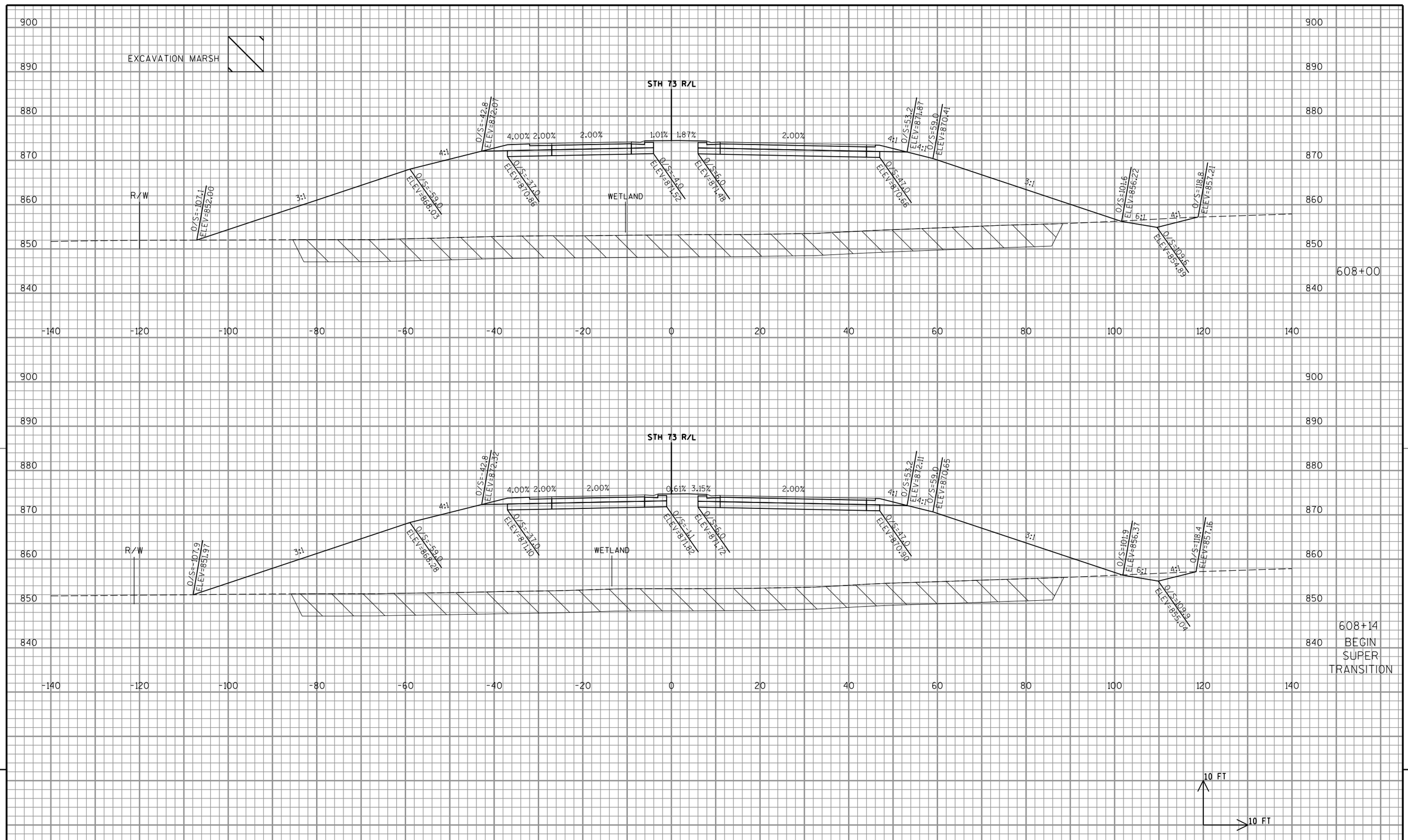
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 628	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

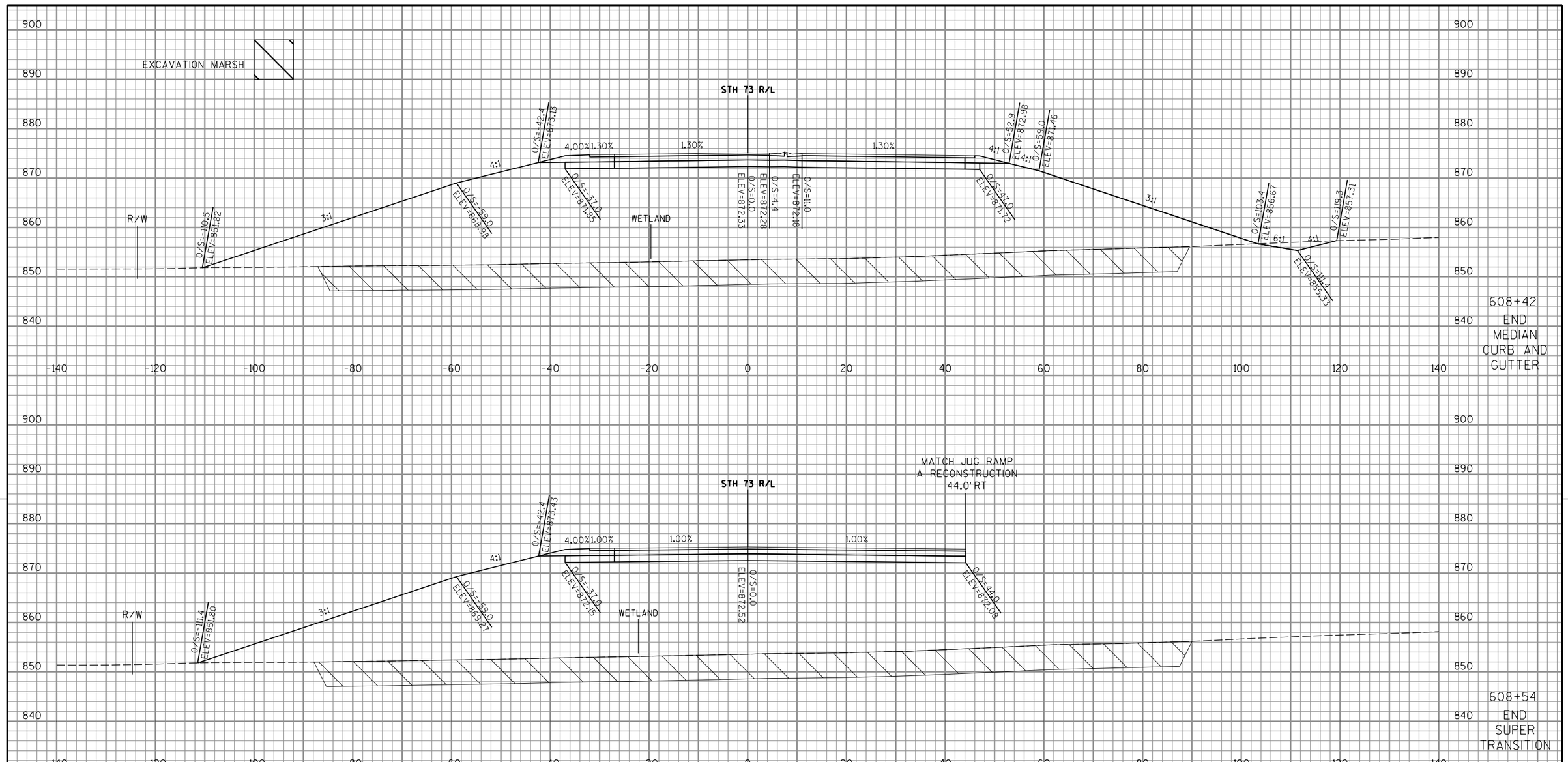
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 629	E

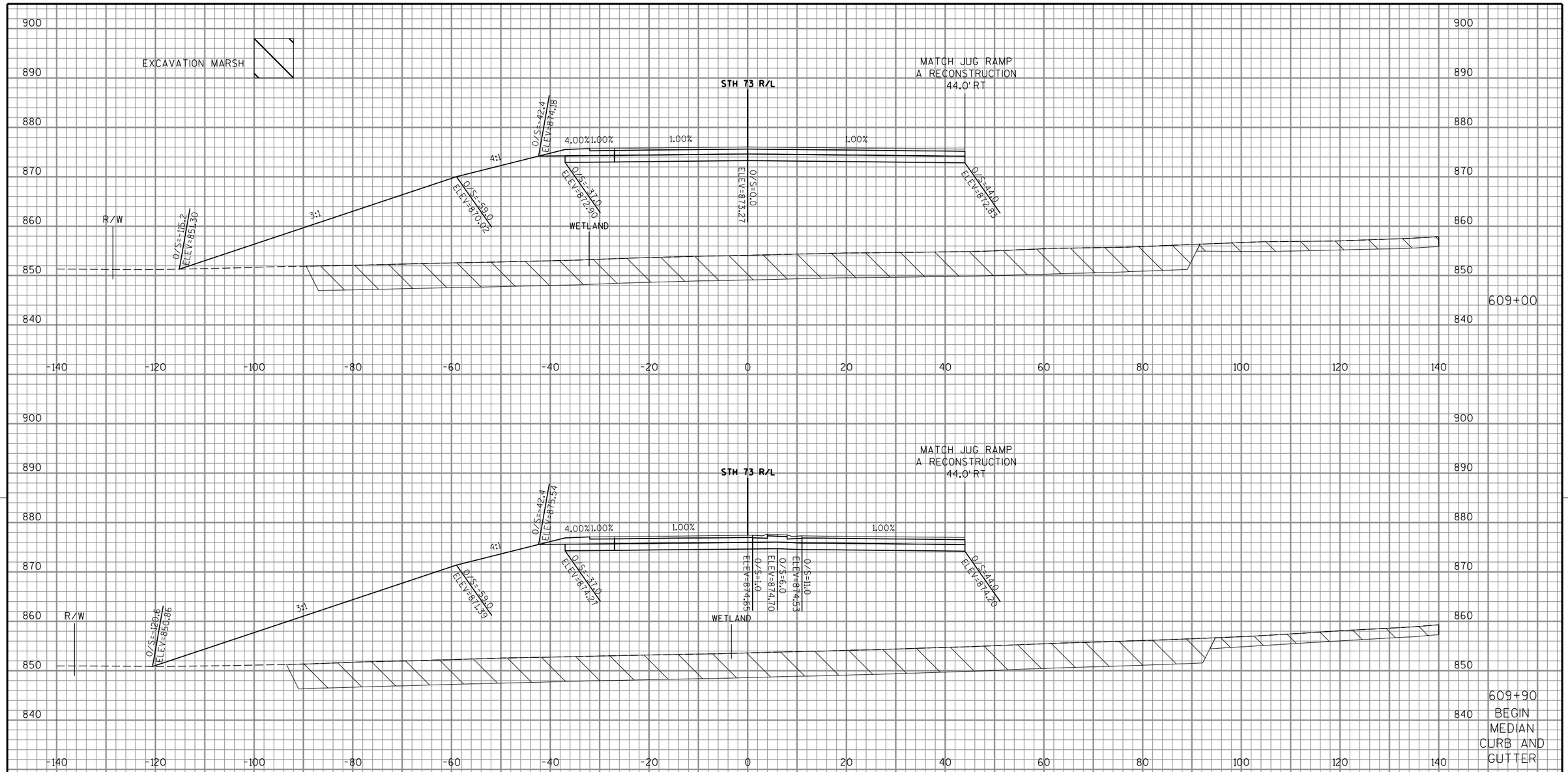
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WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 630	E

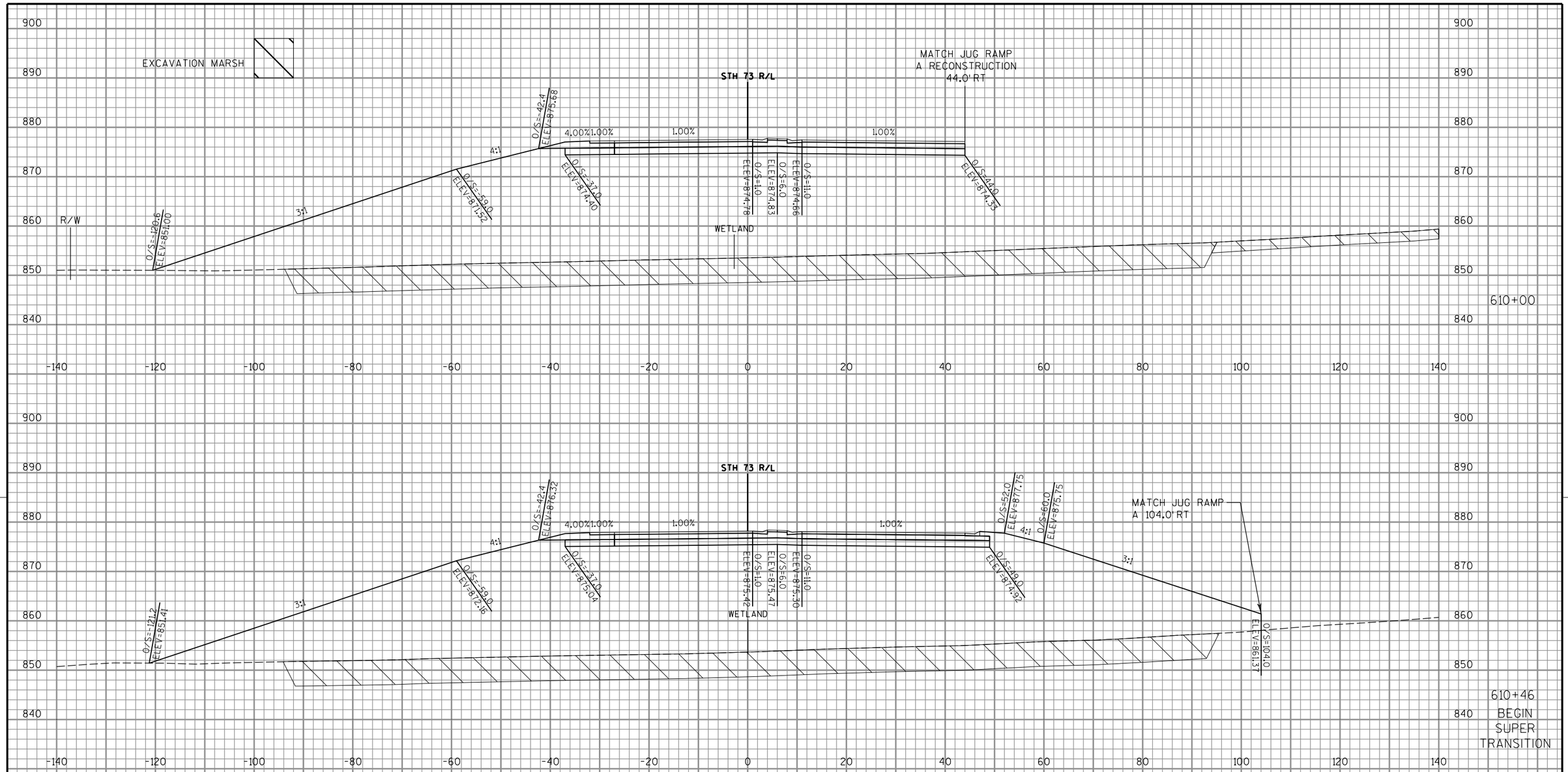
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 631	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

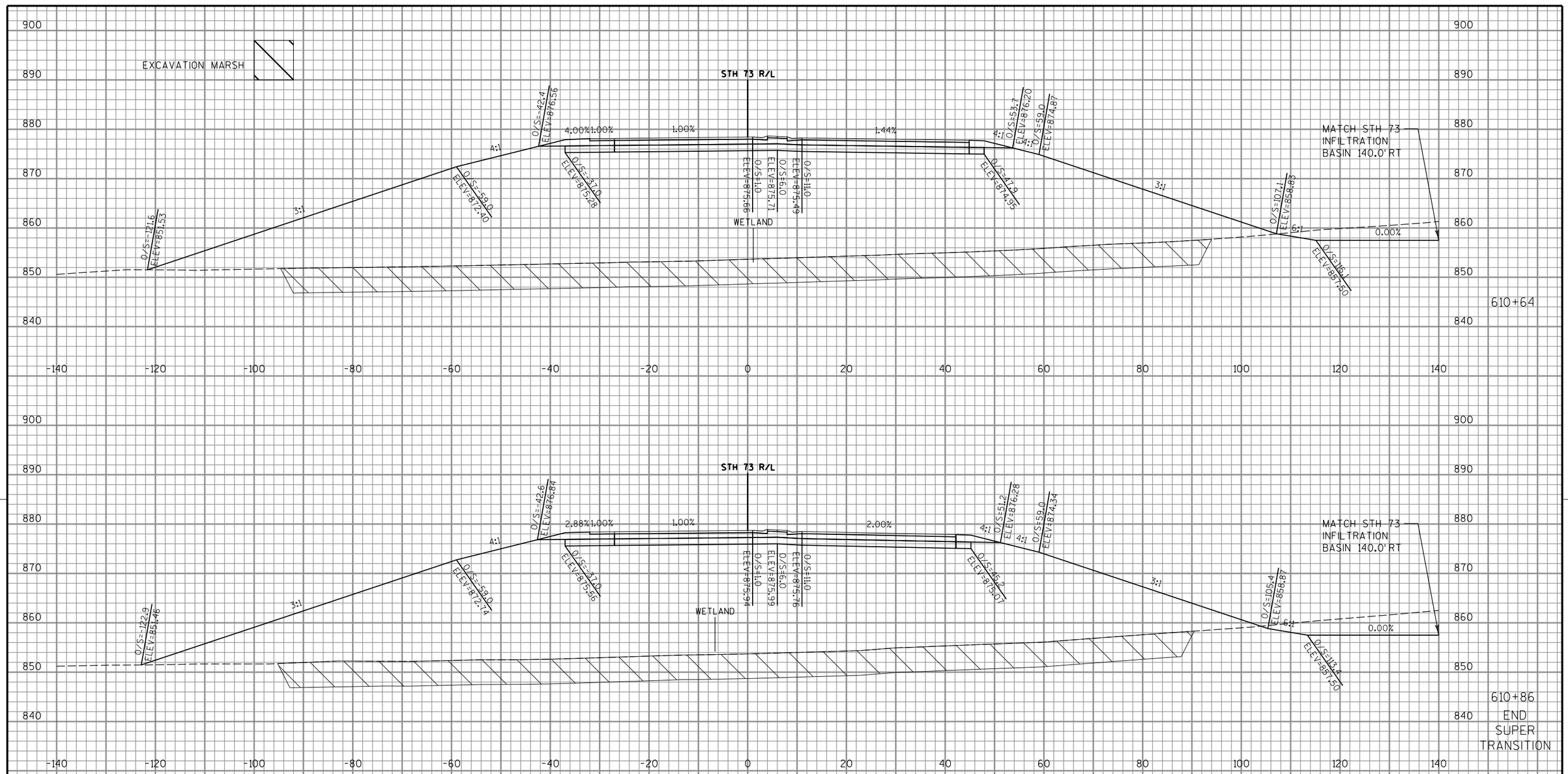
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 632	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 633	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

EXCAVATION MARSH

STH 73 R/L

O/S=42.7
ELEV=877.02

2.18% 1.00%

1.00%

2.00%

O/S=49.5
ELEV=876.49

O/S=59.0
ELEV=874.13

4:1

4:1

3:1

3:1

O/S=122.4
ELEV=851.82

O/S=59.0
ELEV=872.95

O/S=37.0
ELEV=875.74

O/S=1.0
ELEV=876.12

O/S=6.0
ELEV=876.17

O/S=11.0
ELEV=875.93

O/S=43.5
ELEV=875.28

WETLAND

MATCH STH 73
INFILTRATION
BASIN 140.0' RT

O/S=104.8
ELEV=858.87

6:1

0.00%

O/S=142.8
ELEV=857.50

611+00

900
890
880
870
860
850
840

-140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140

STH 73 R/L

O/S=42.7
ELEV=877.98

0.00% 0.00%

0.00%

2.00%

O/S=44.3
ELEV=877.09

O/S=59.0
ELEV=873.41

4:1

4:1

3:1

3:1

O/S=324.5
ELEV=852.10

O/S=59.0
ELEV=873.92

O/S=37.0
ELEV=876.05

O/S=1.0
ELEV=876.65

O/S=6.0
ELEV=876.64

O/S=11.0
ELEV=876.43

O/S=38.3
ELEV=875.88

WETLAND

MATCH STH 73
INFILTRATION
BASIN 140.0' RT

O/S=102.7
ELEV=858.88

6:1

0.00%

O/S=125.0
ELEV=857.50

O/S=190.7
ELEV=857.50

611+44
LEVEL
CROWN

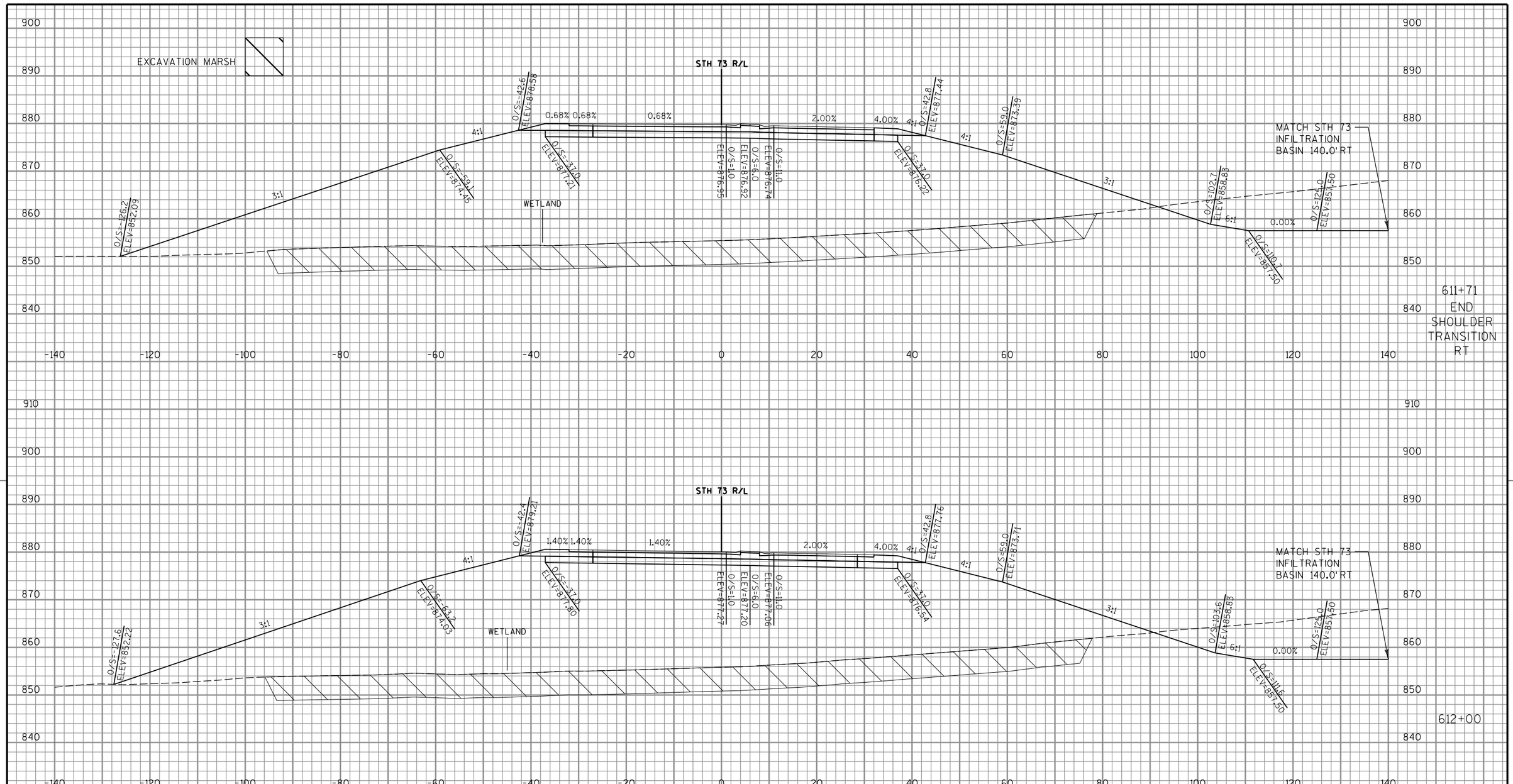
10 FT

10 FT

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 634	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

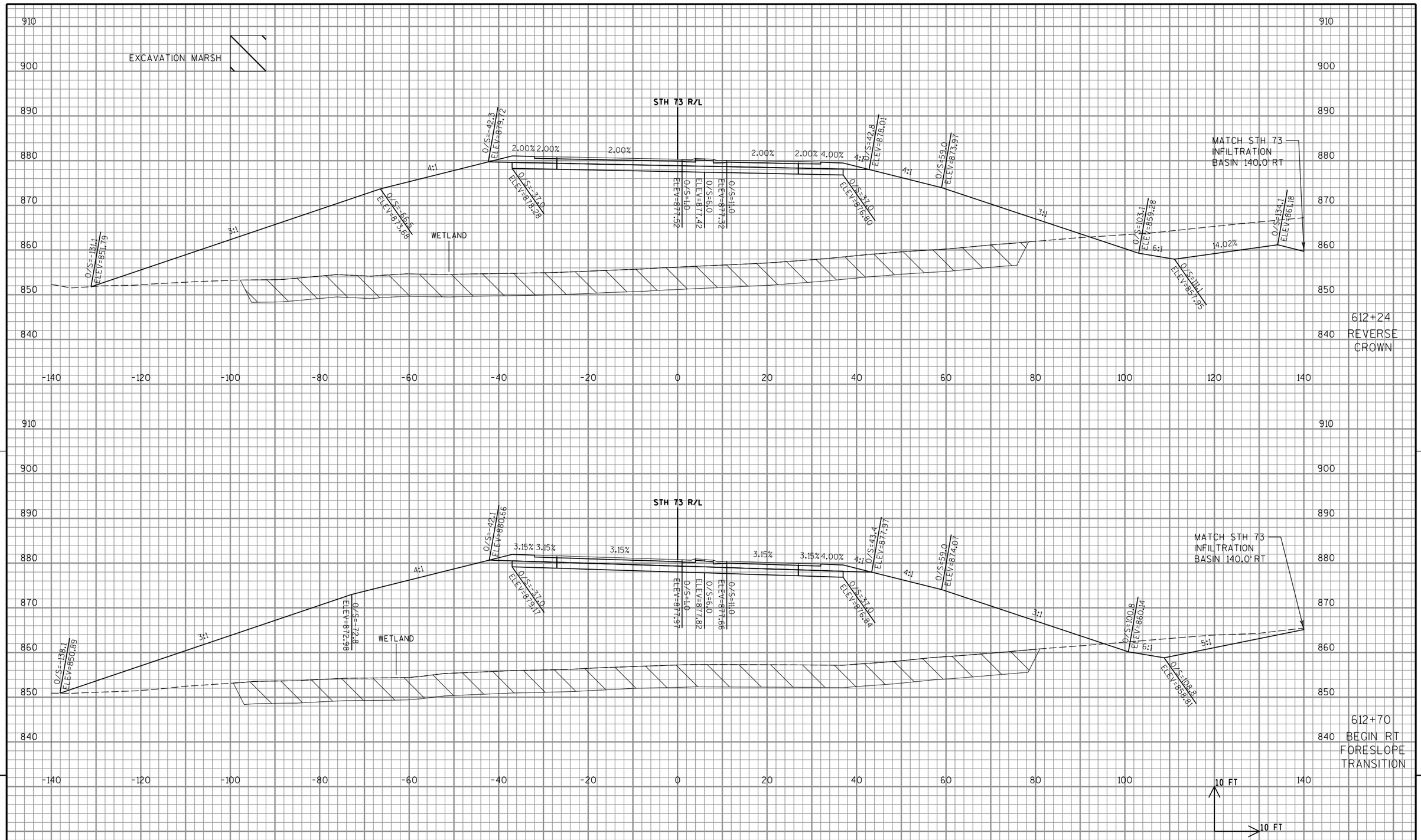
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 635	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

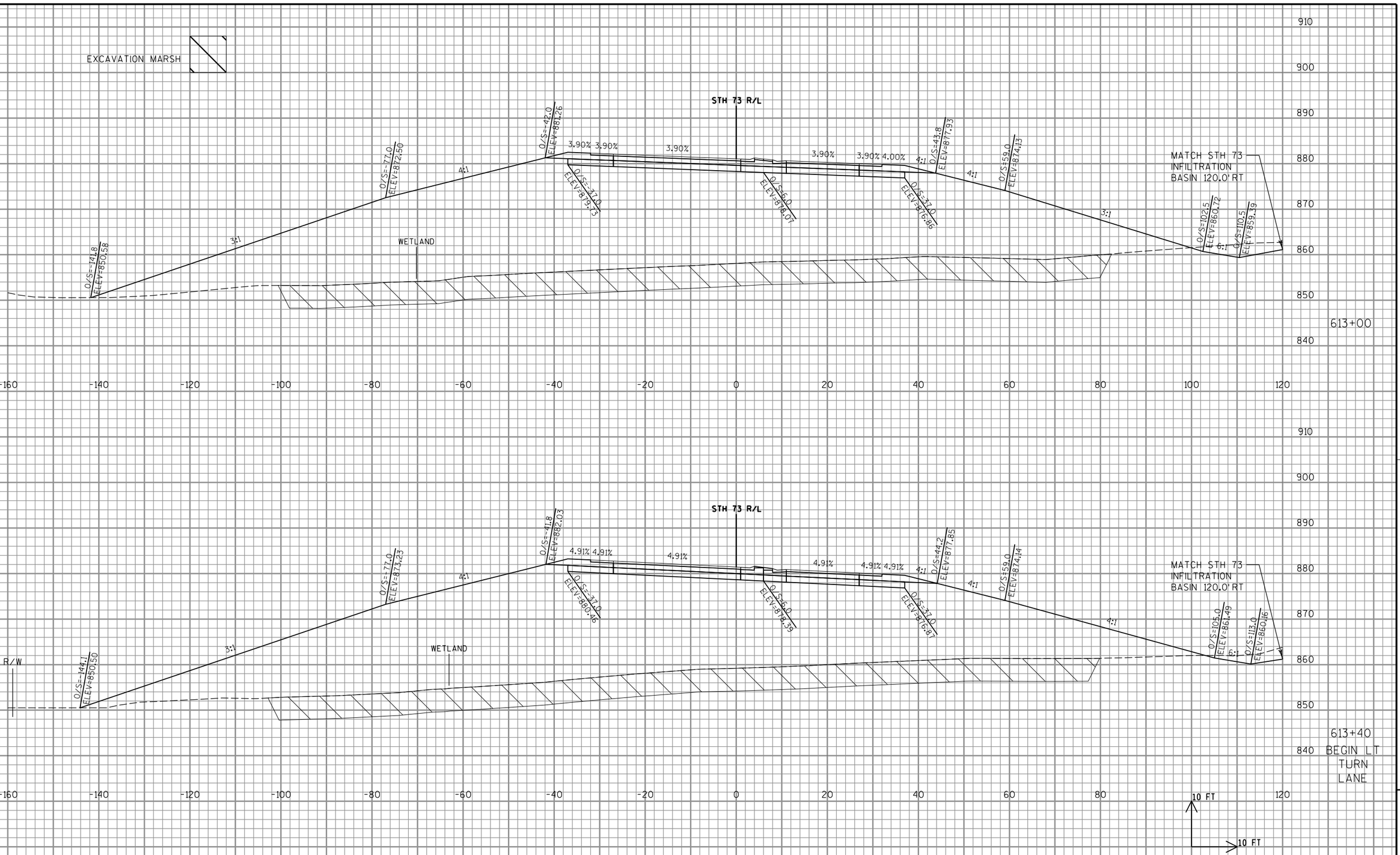
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 636	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

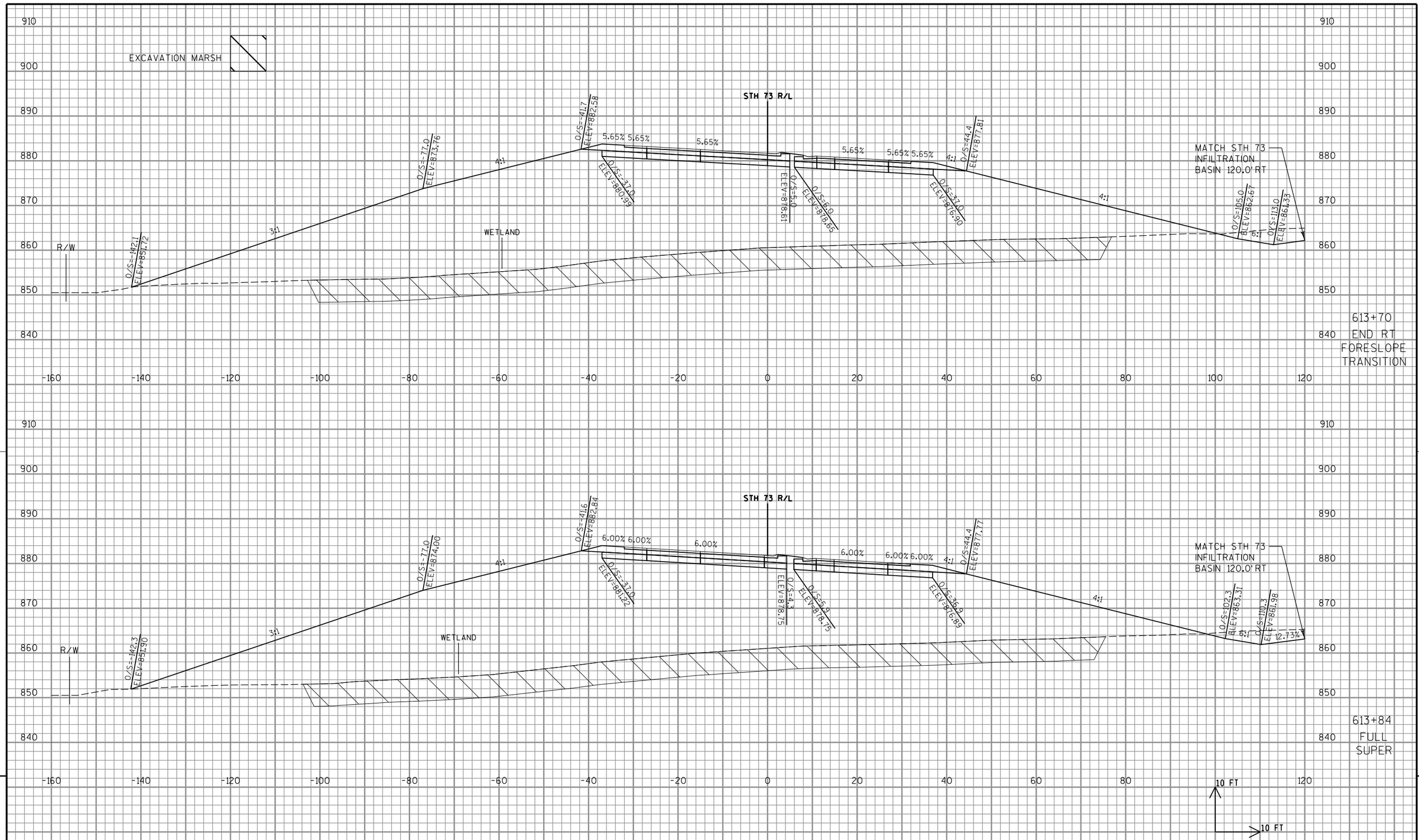
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 637	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



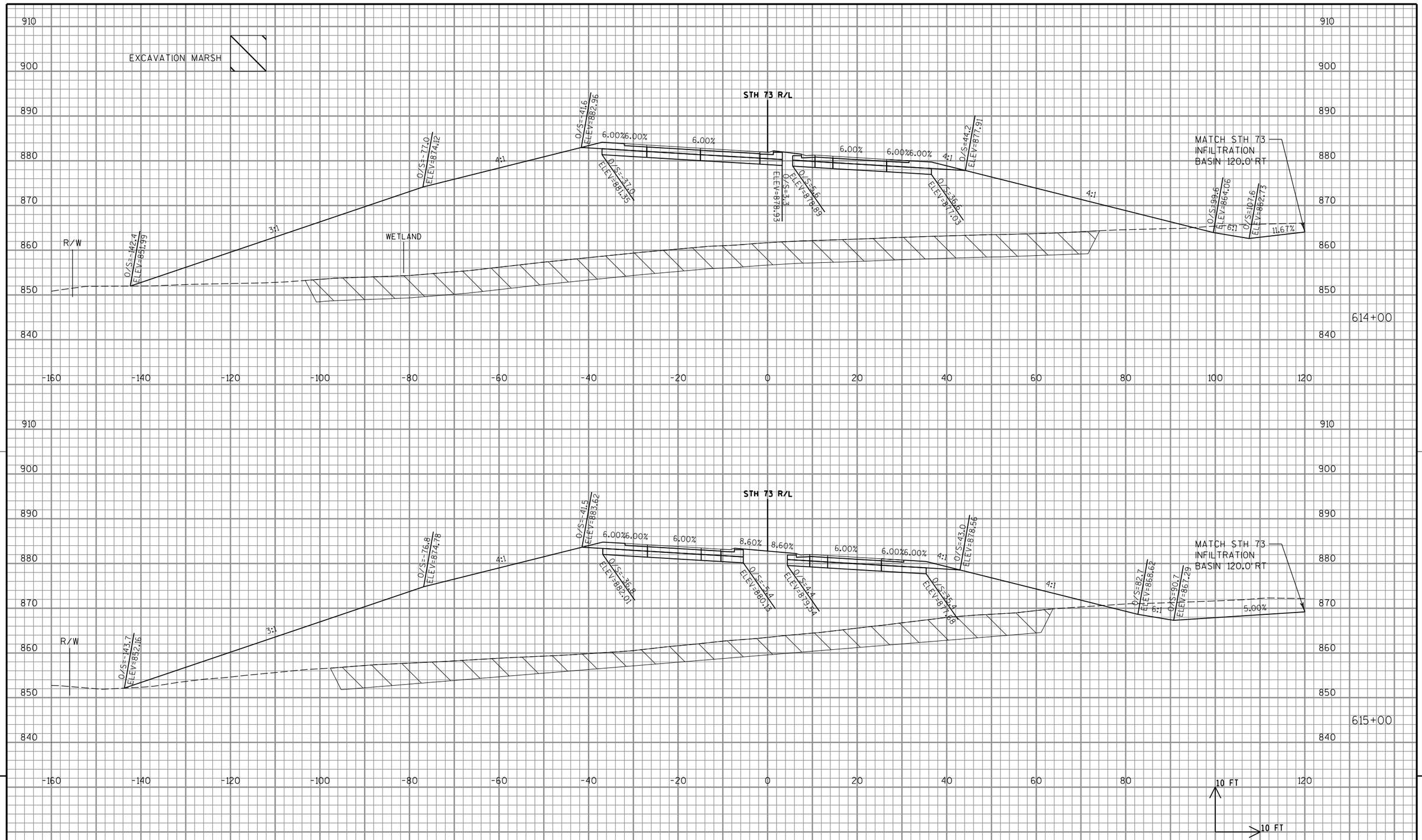
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 638	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

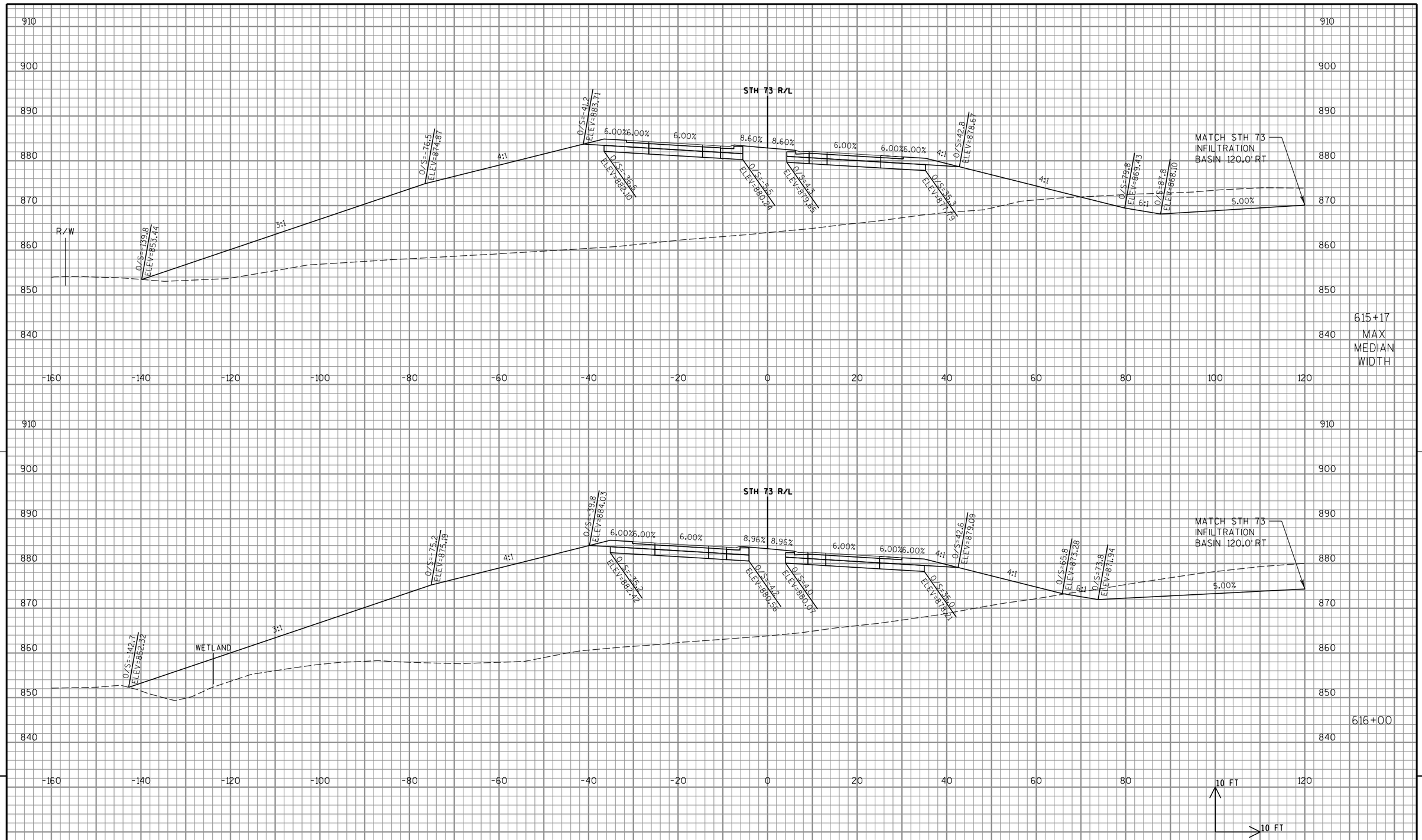
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 639	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

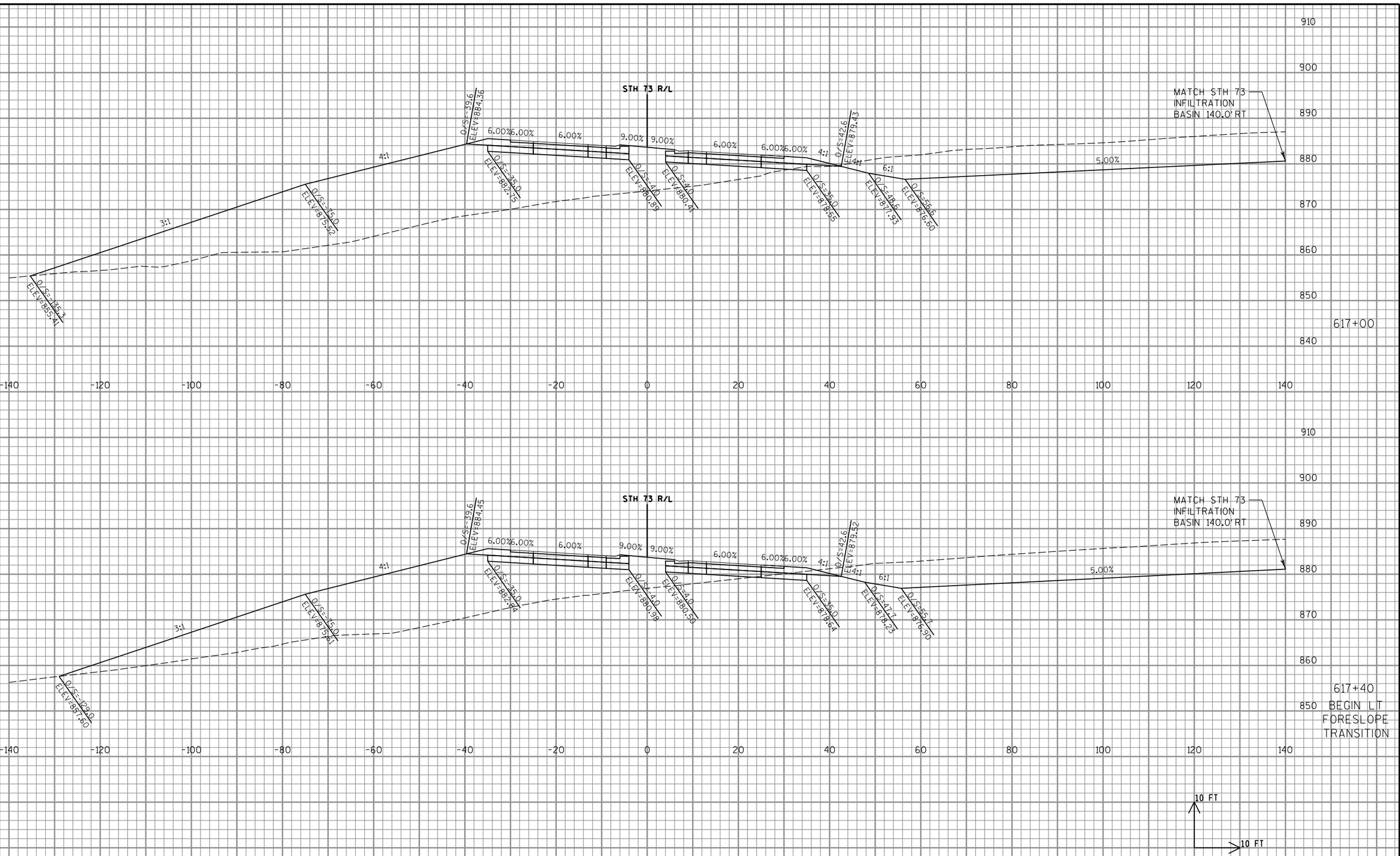
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 640	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

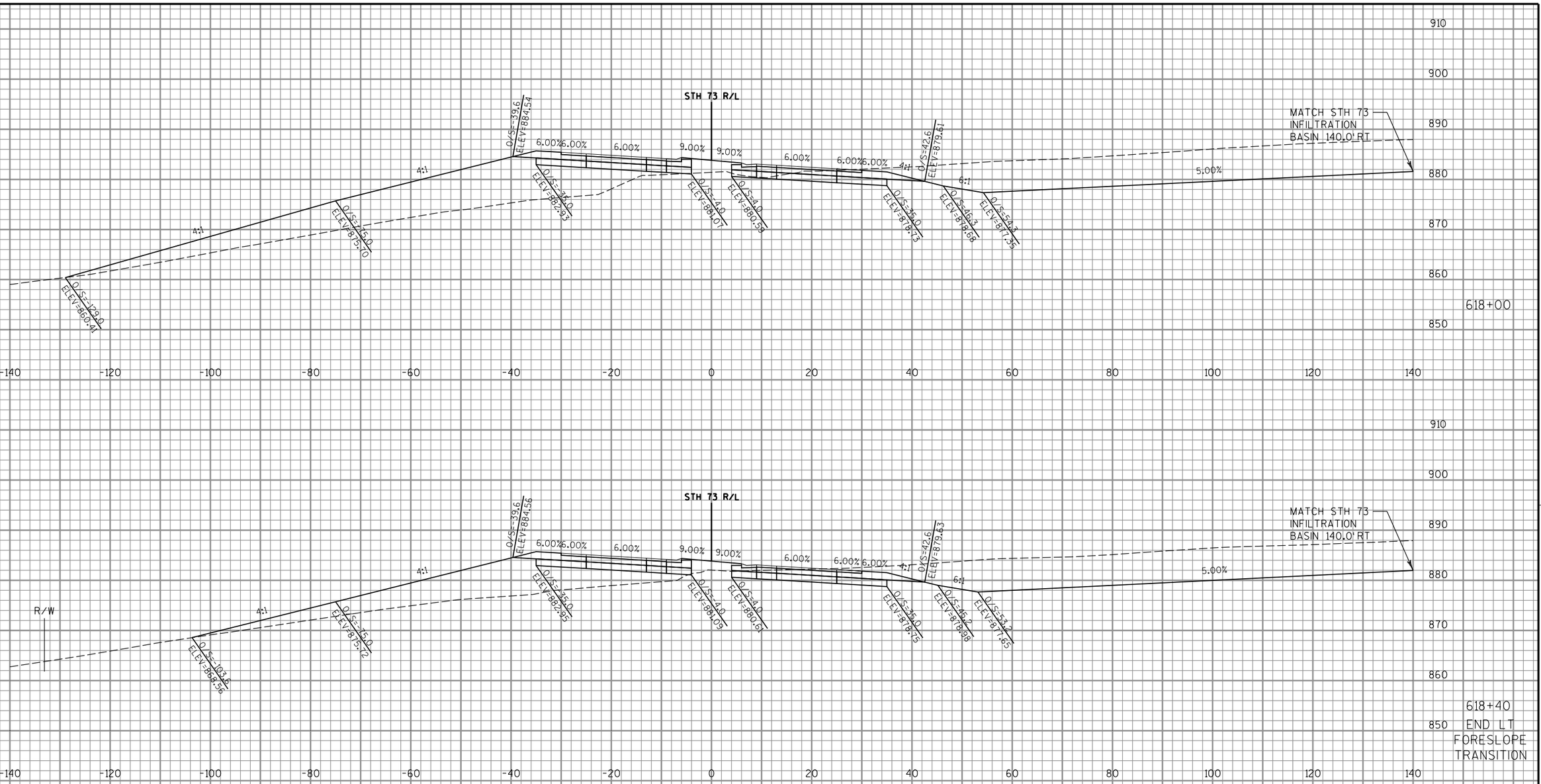
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 641	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

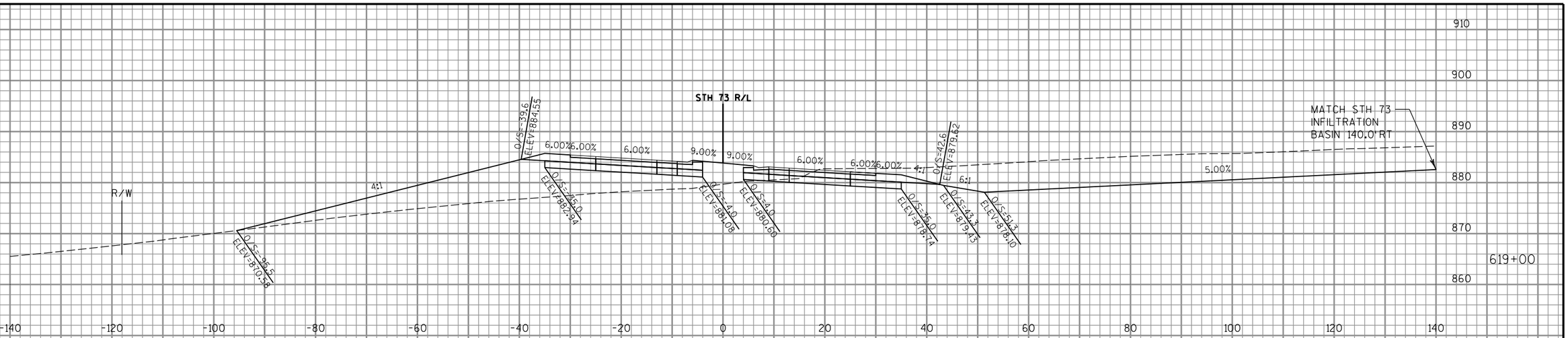
WISDOT/CADDS SHEET 21

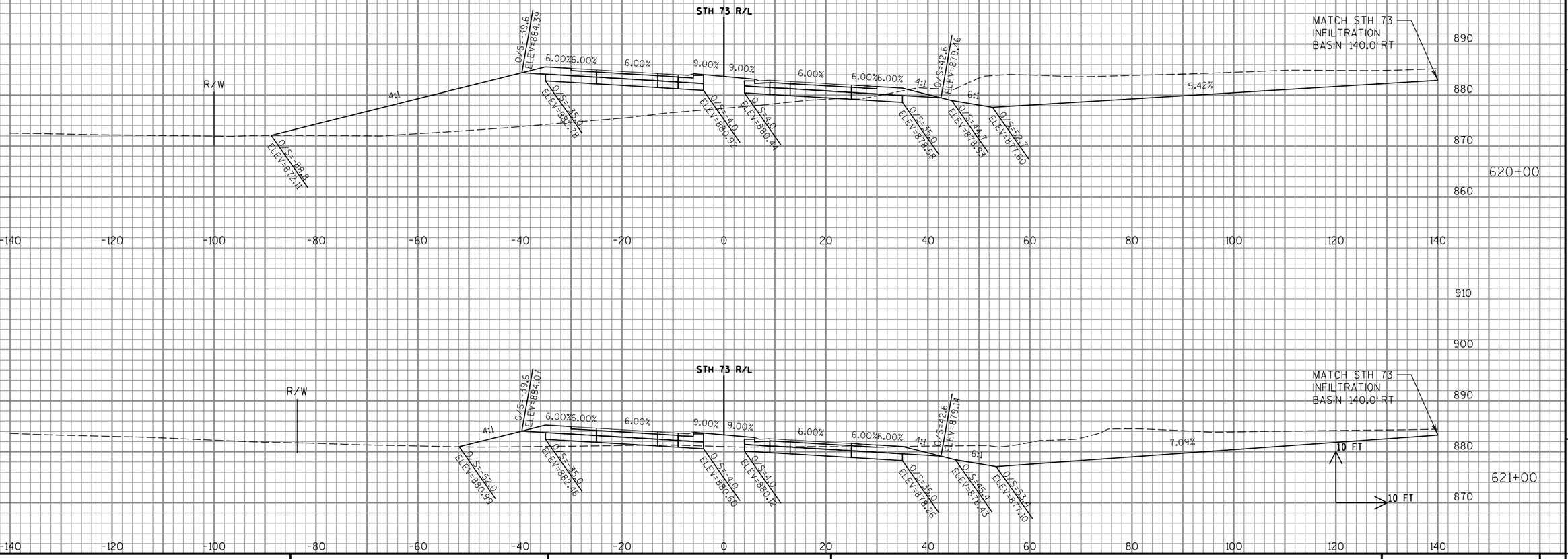


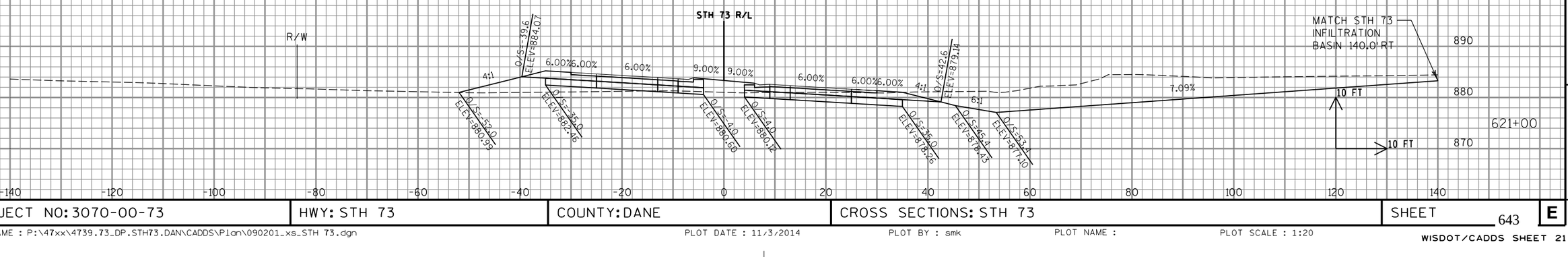
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 642	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21







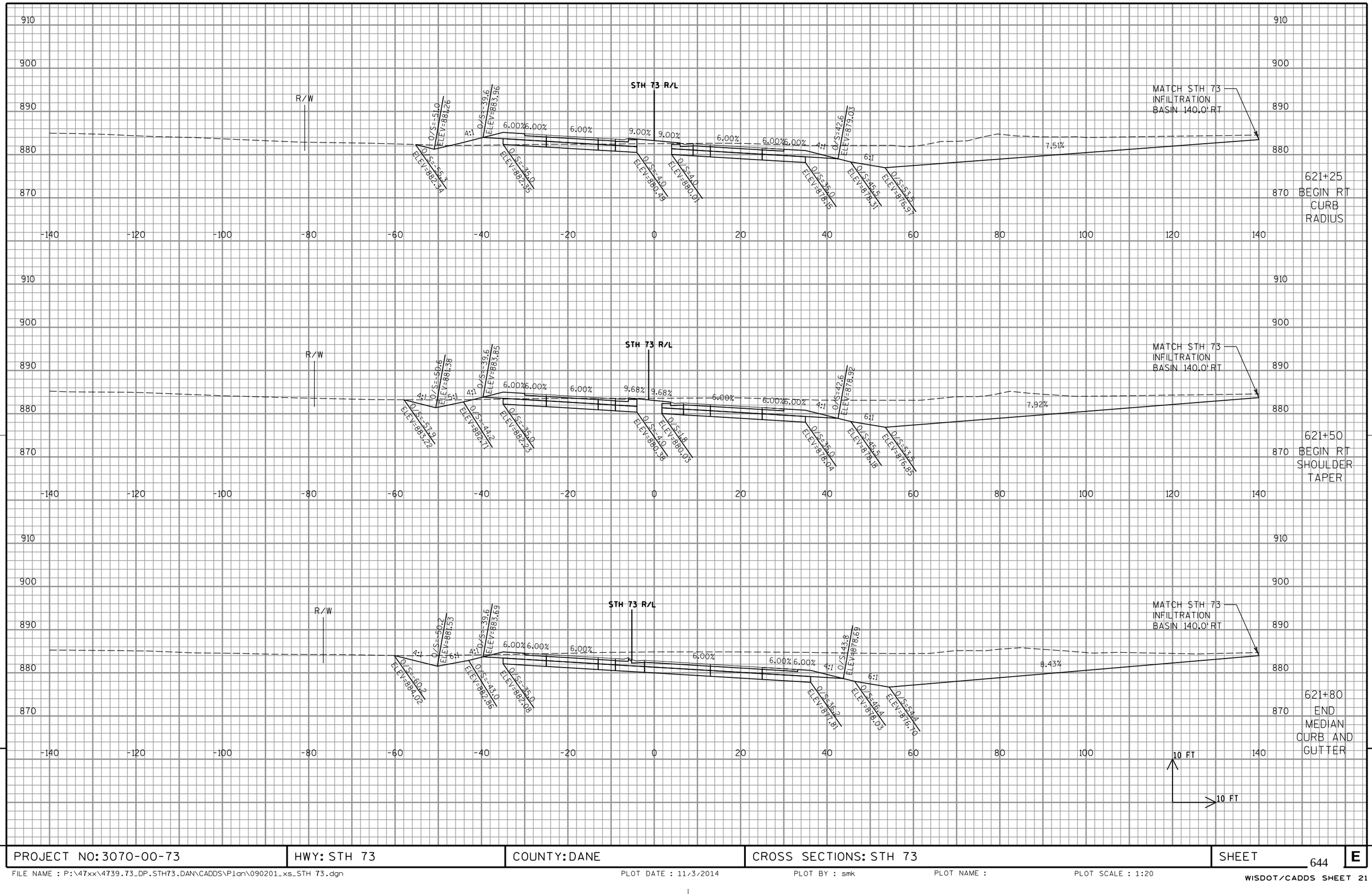
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 643	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

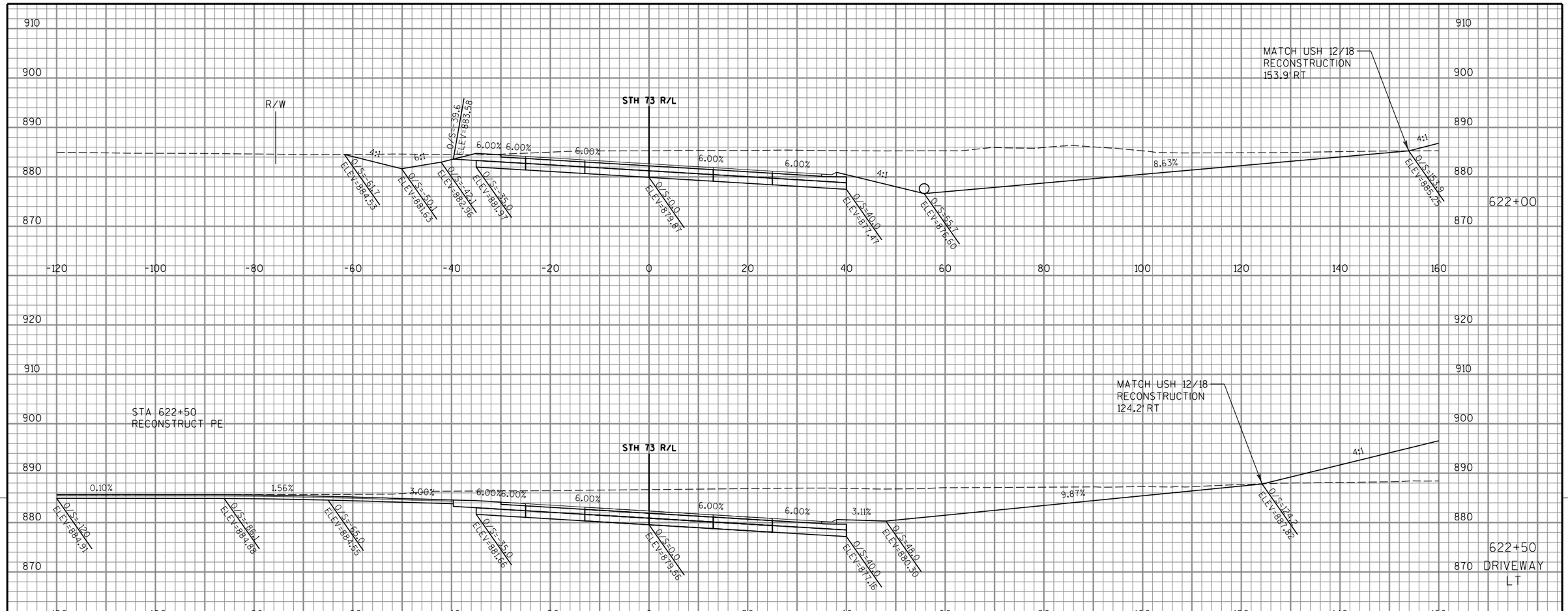
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 644	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



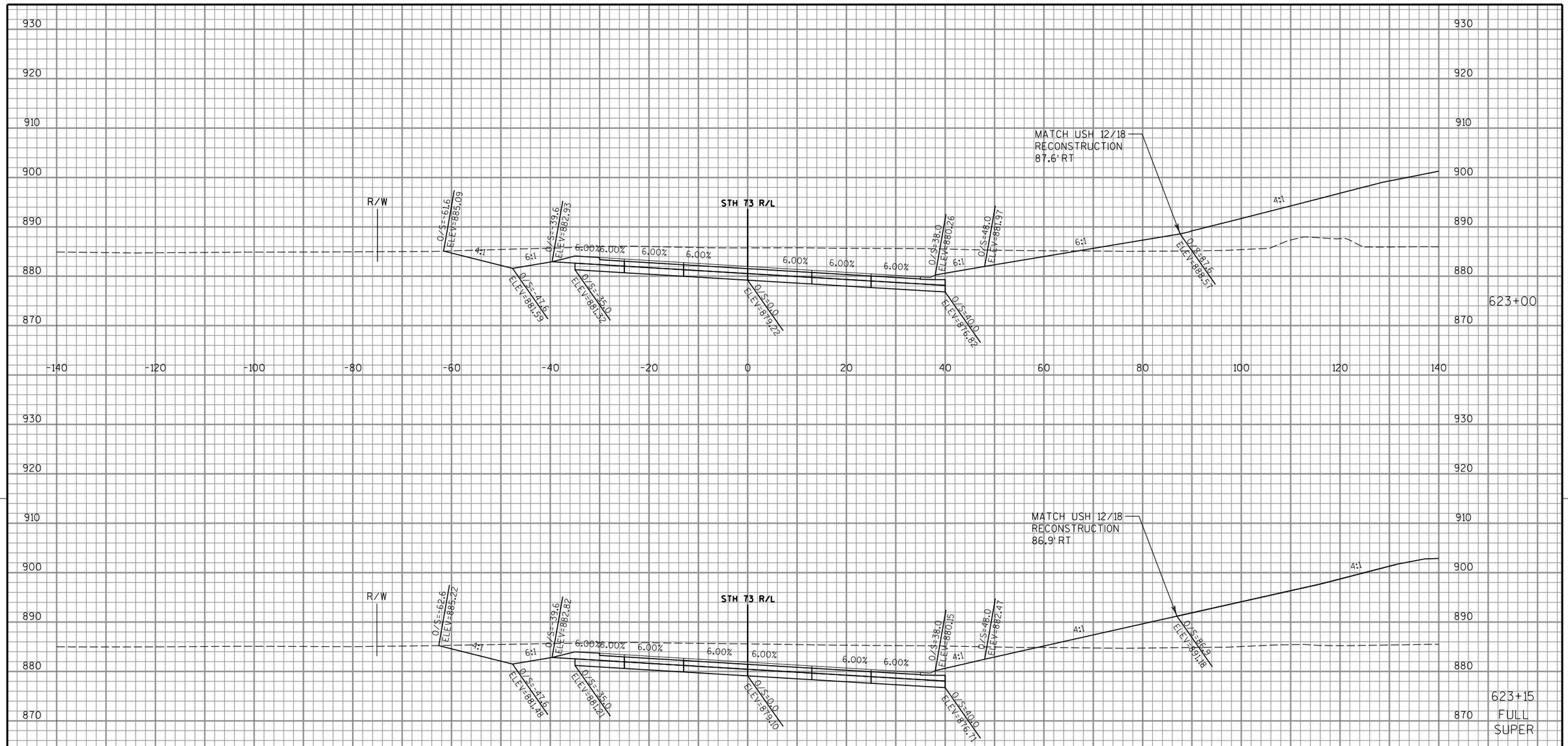
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 645	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



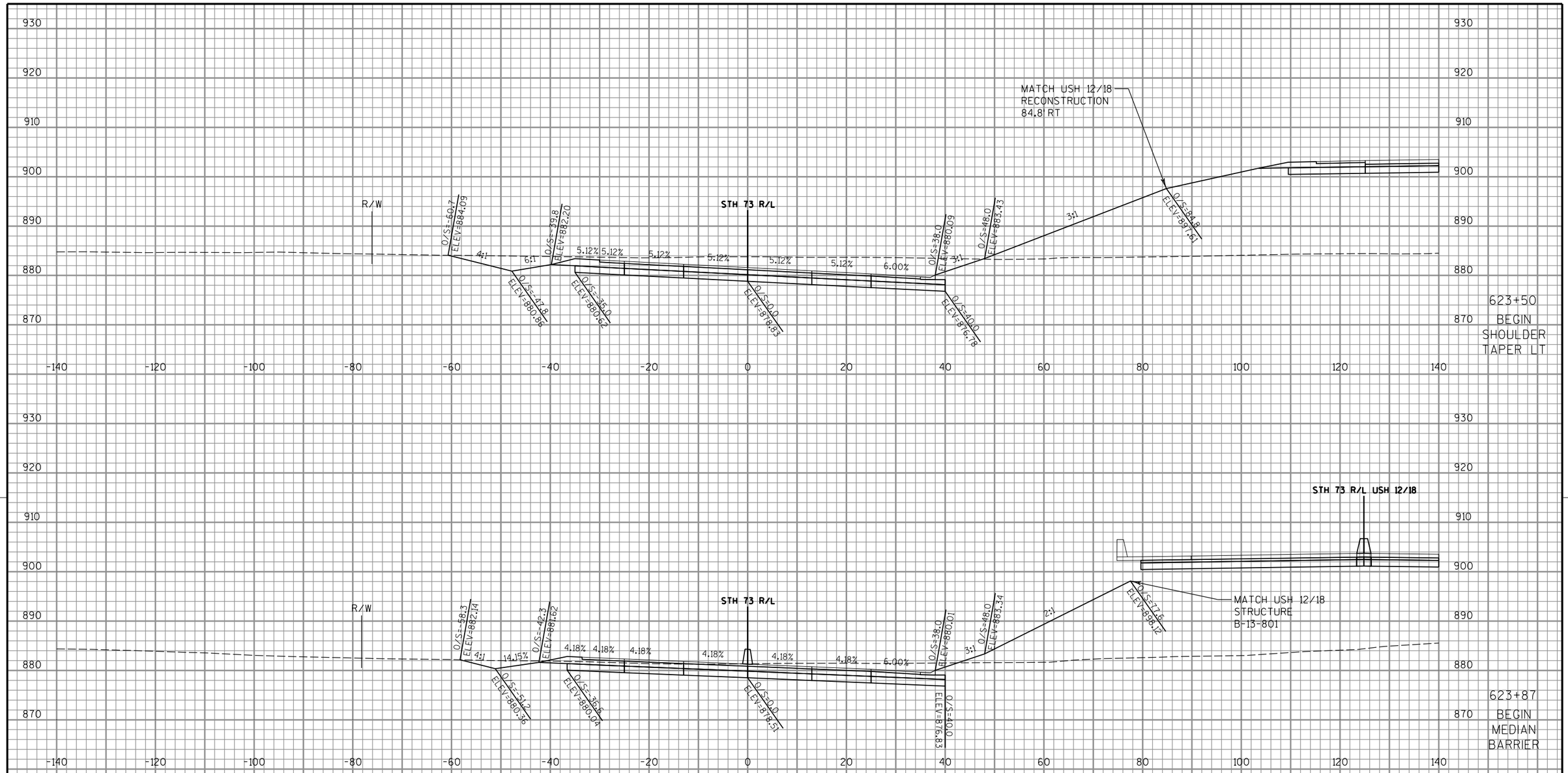
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 646	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

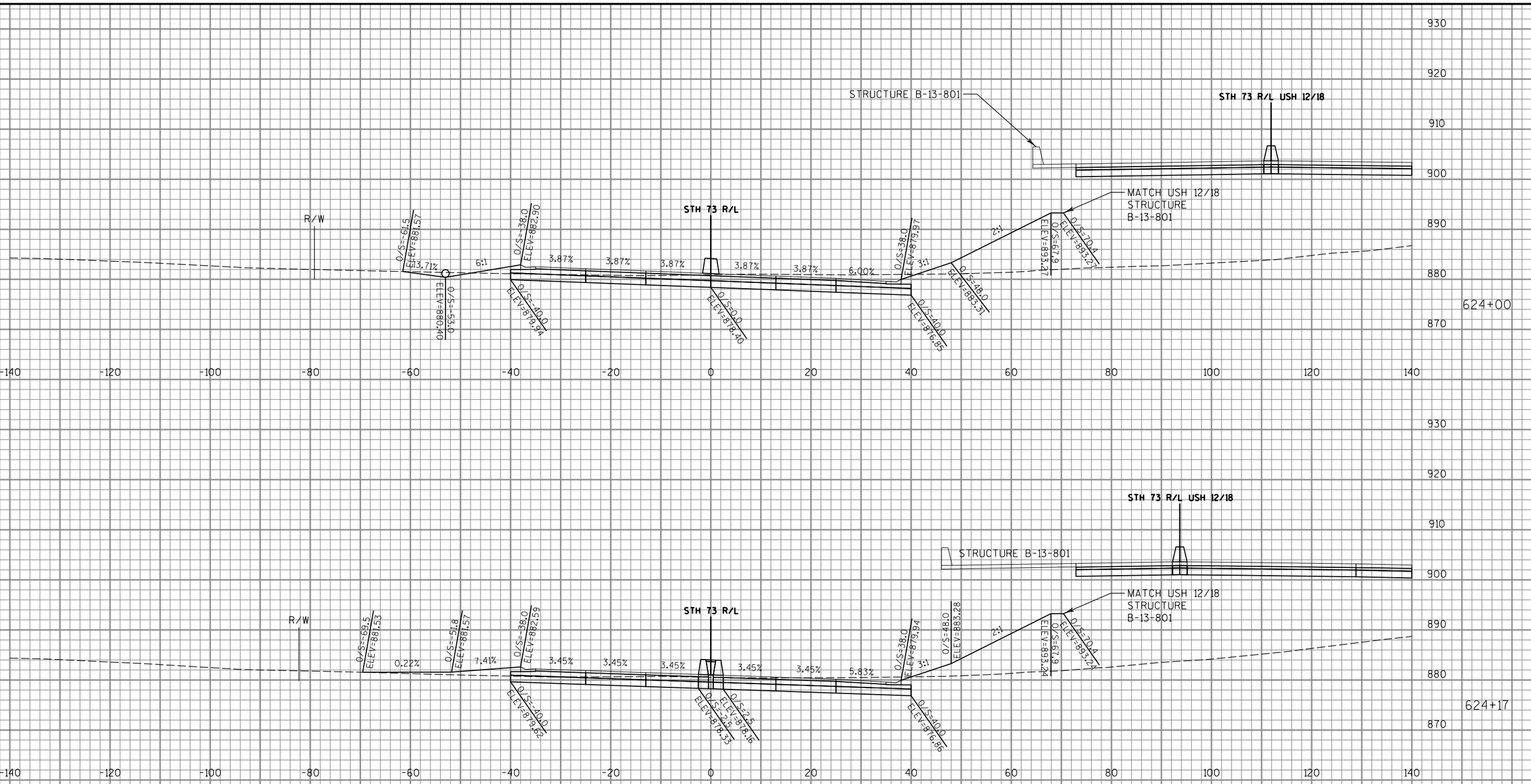
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 647	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



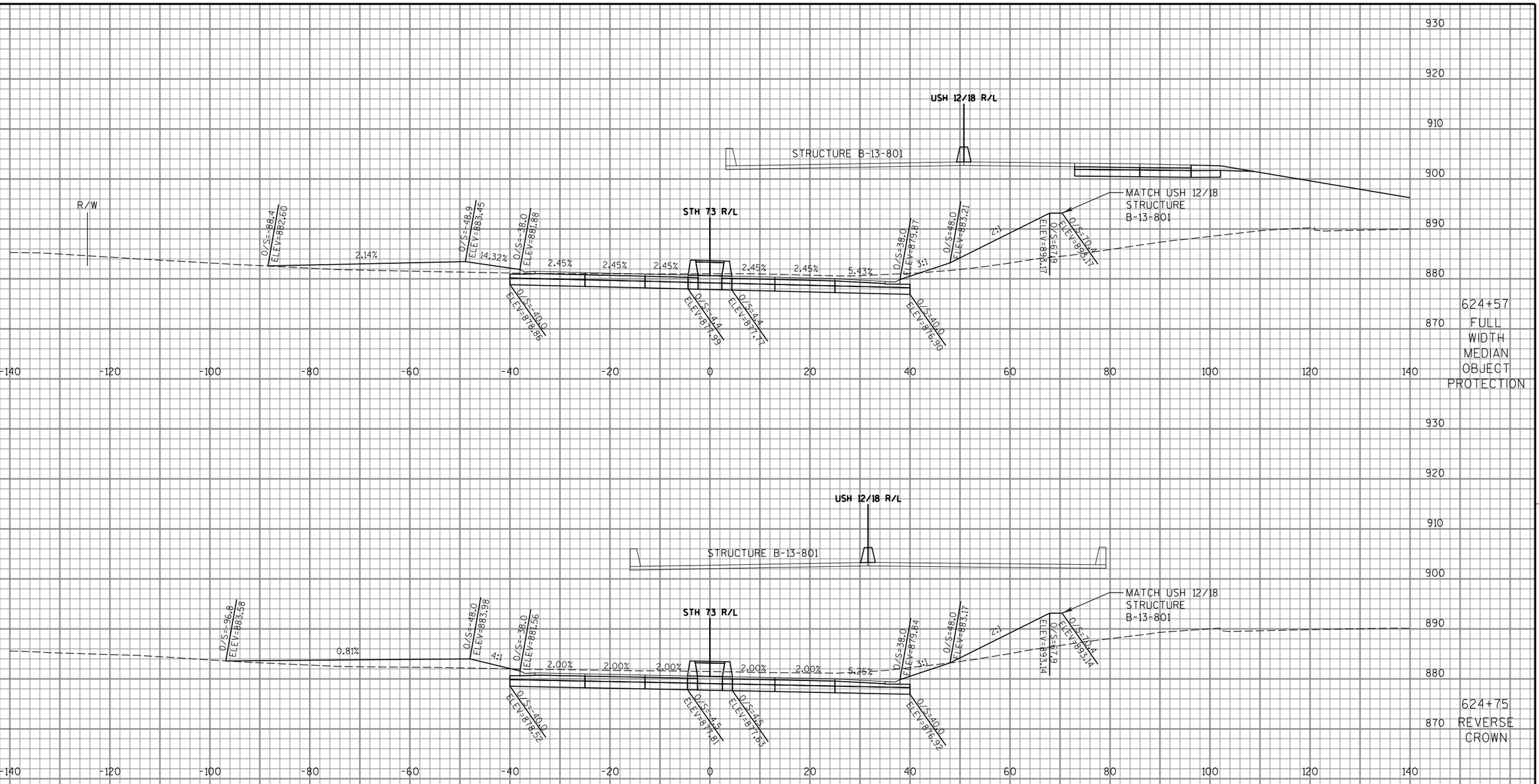
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 648	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

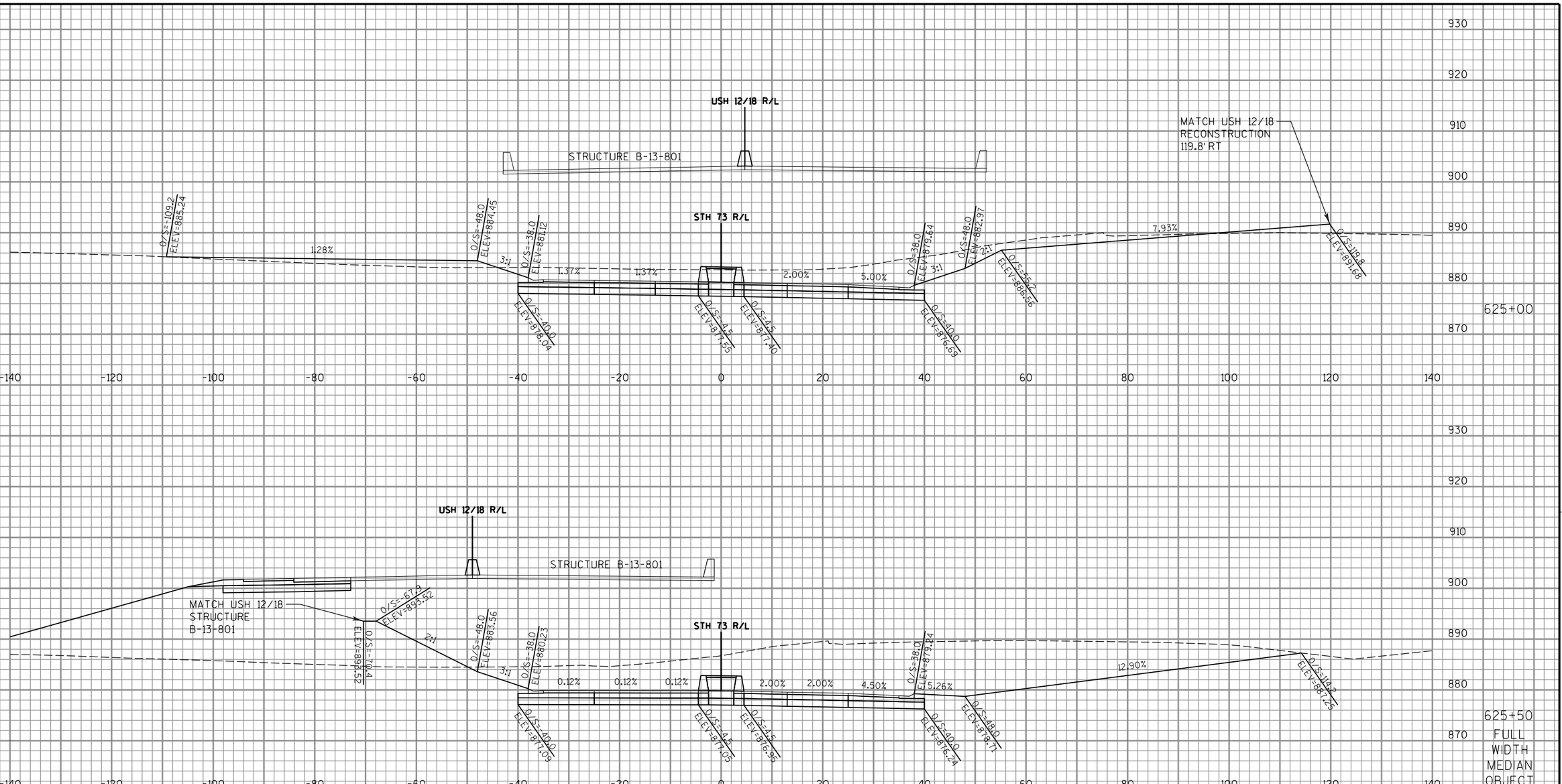
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 649	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

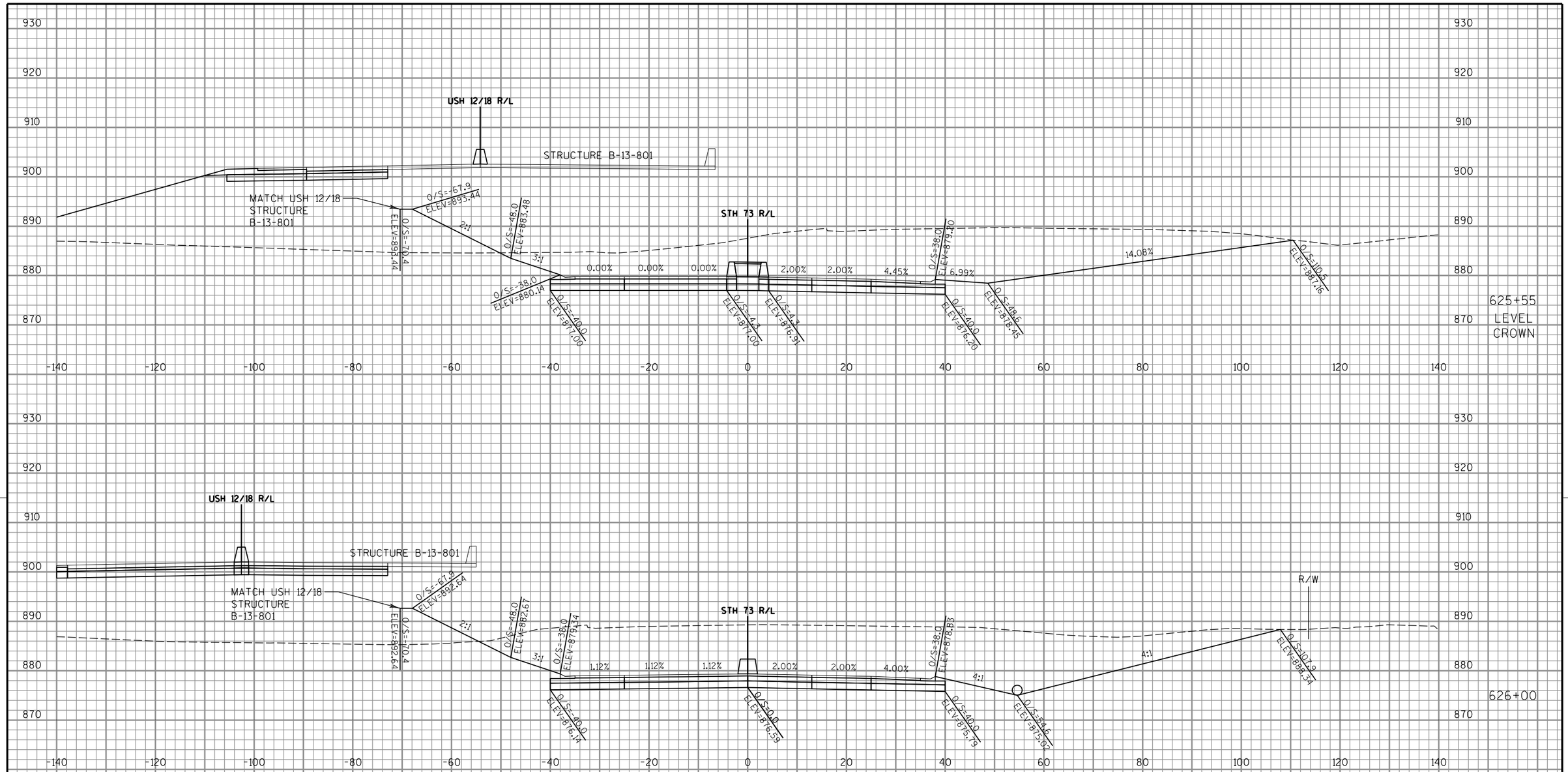
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 650	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

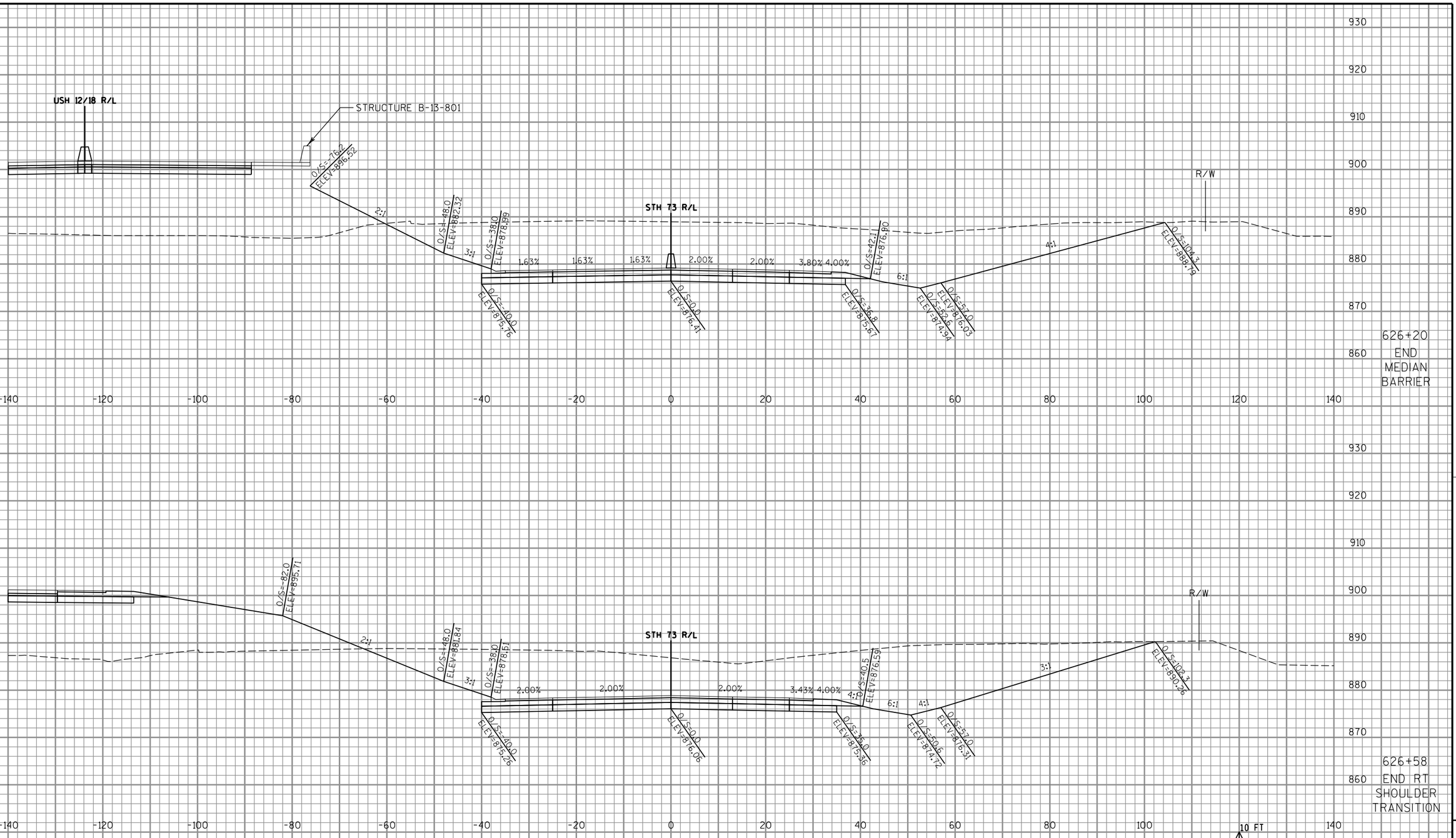
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 651	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



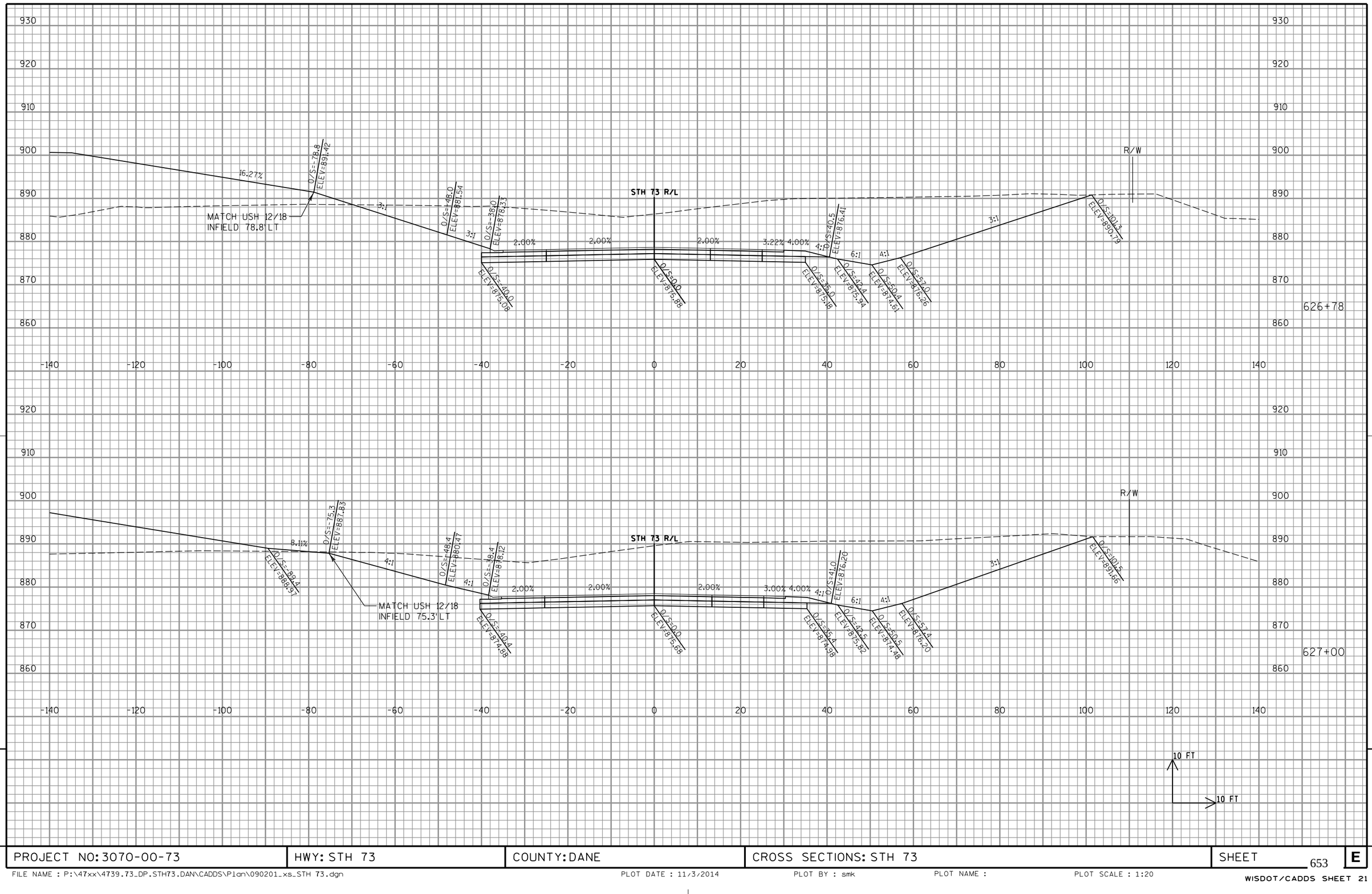
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 652	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

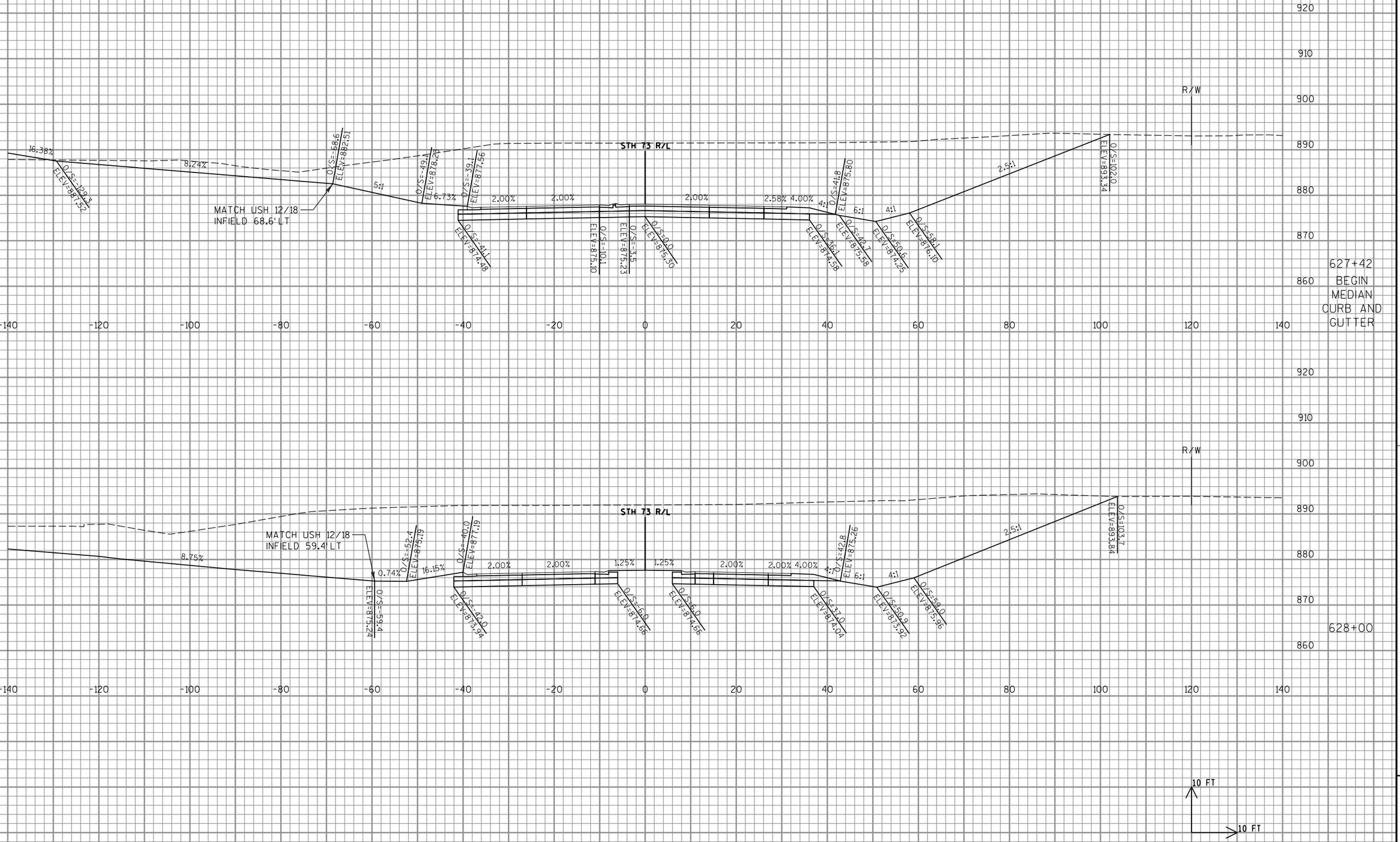
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 653	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



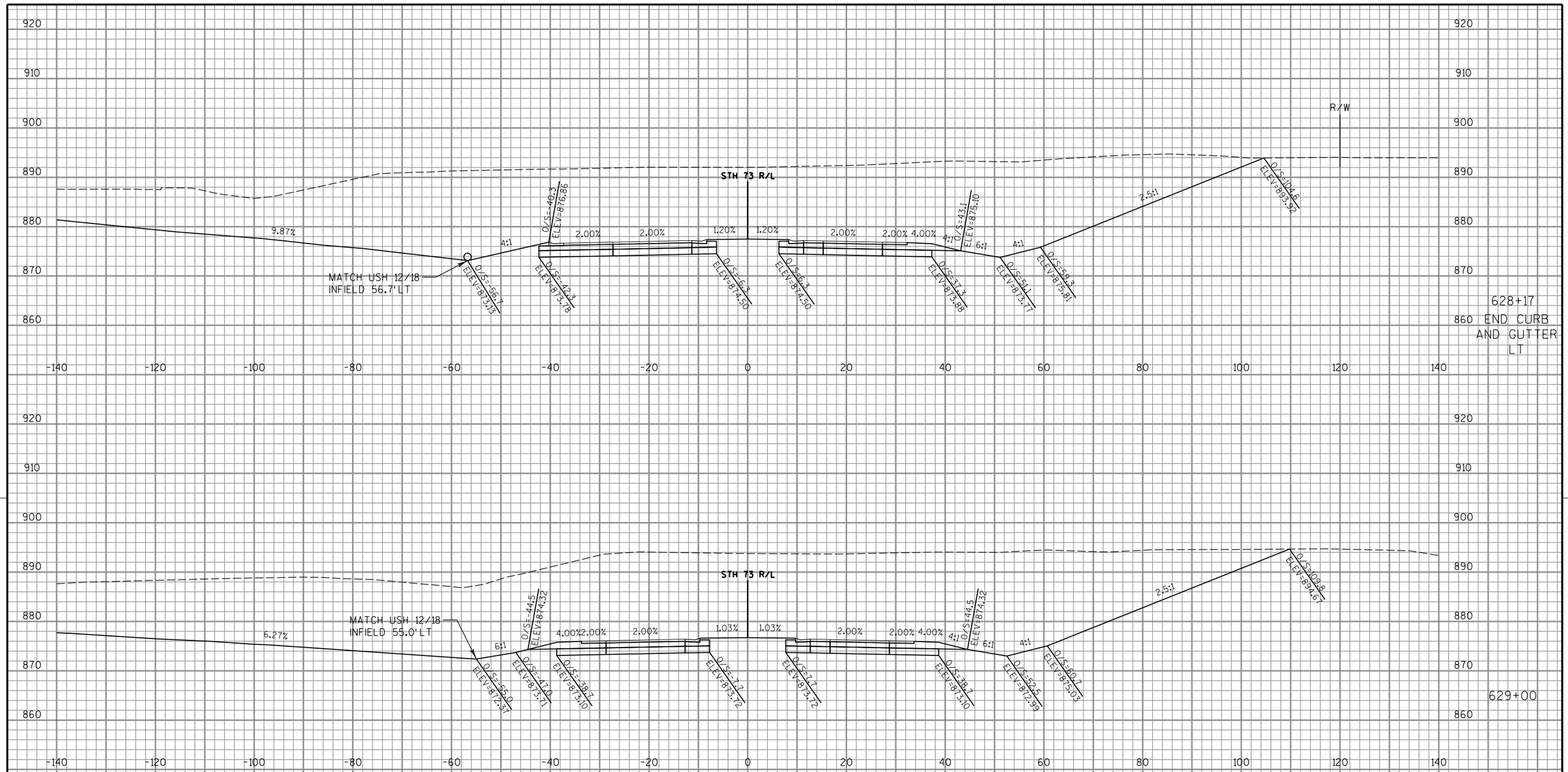
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 654	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



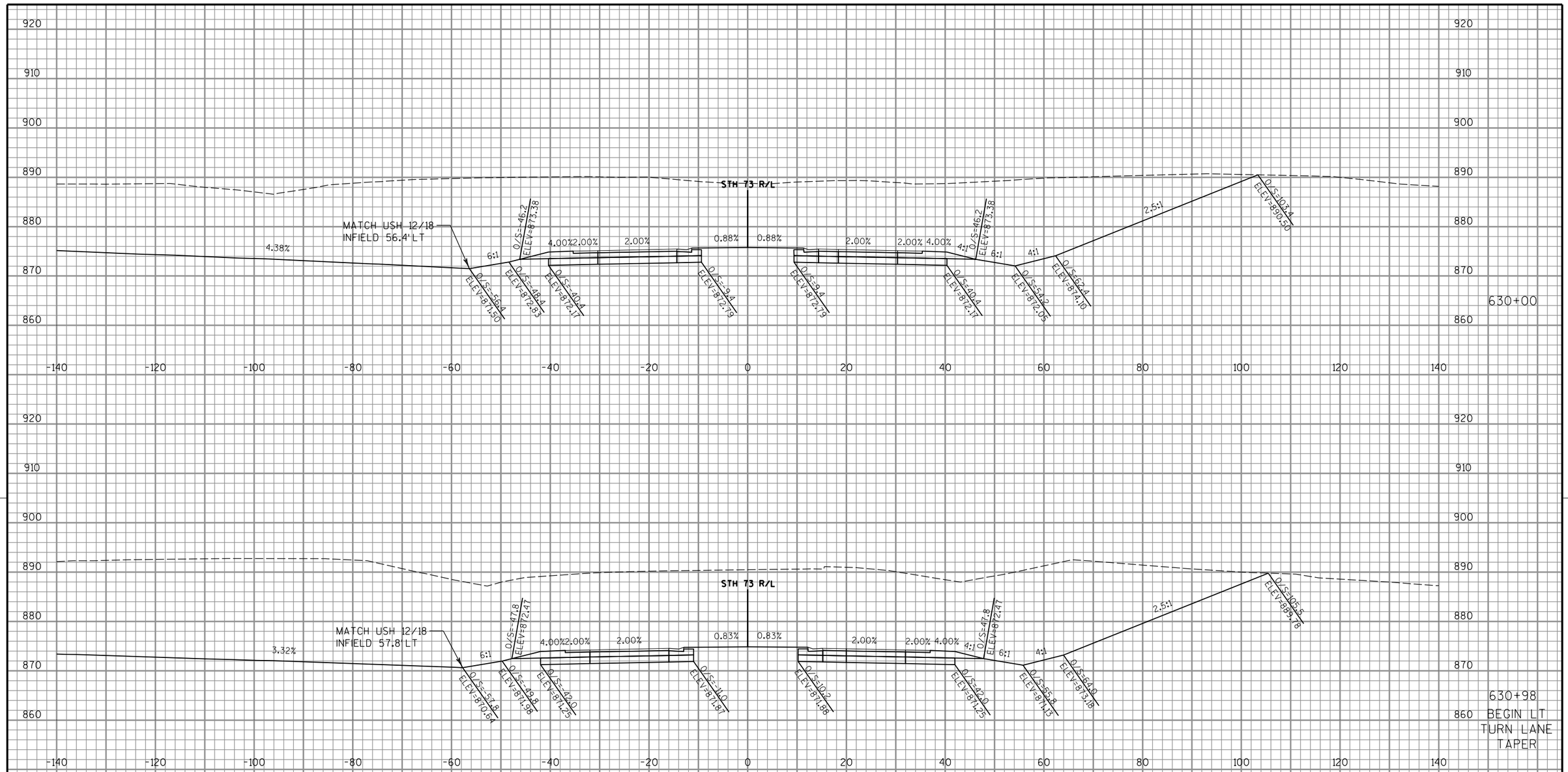
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 655	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

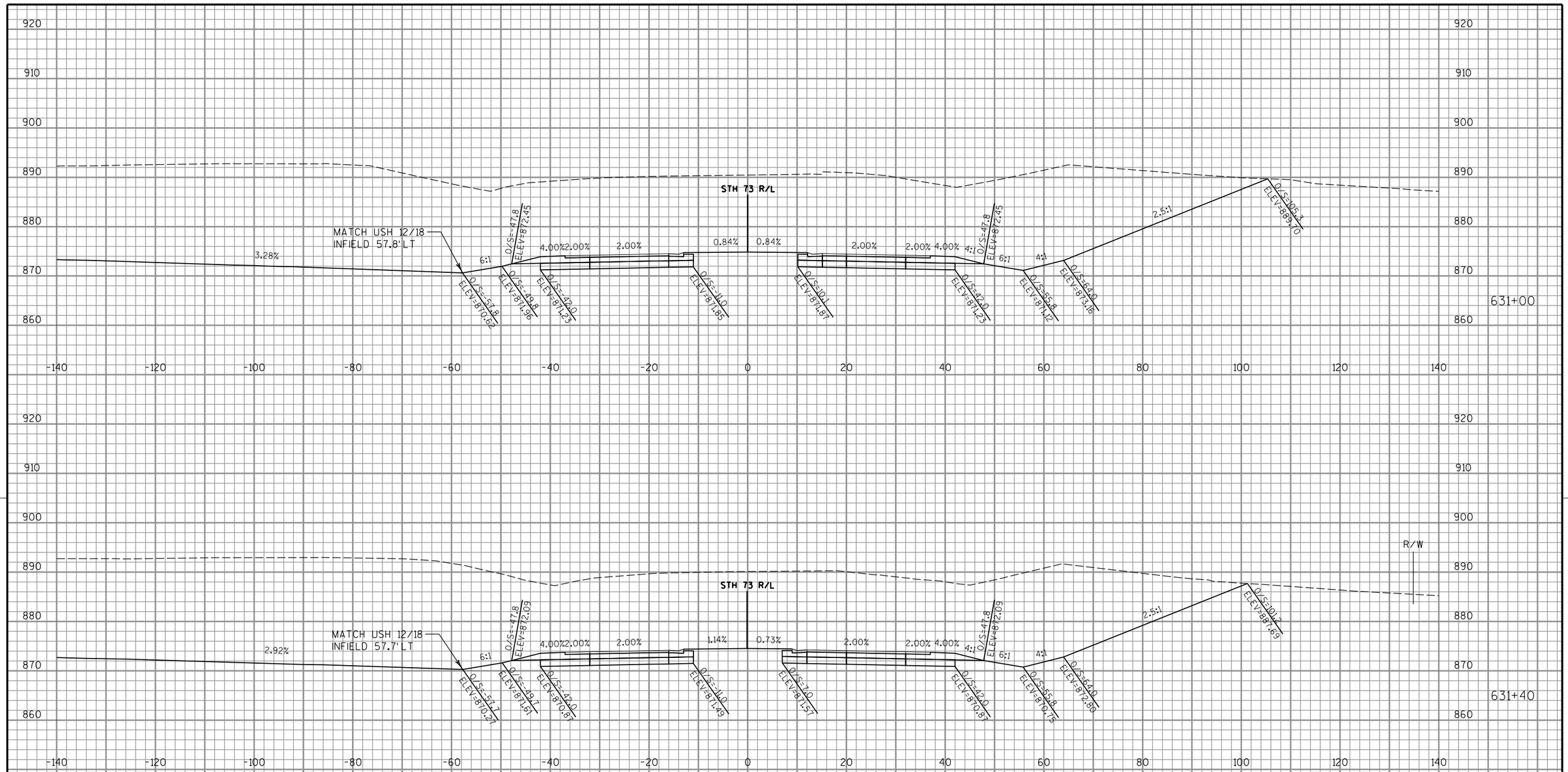
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 656	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

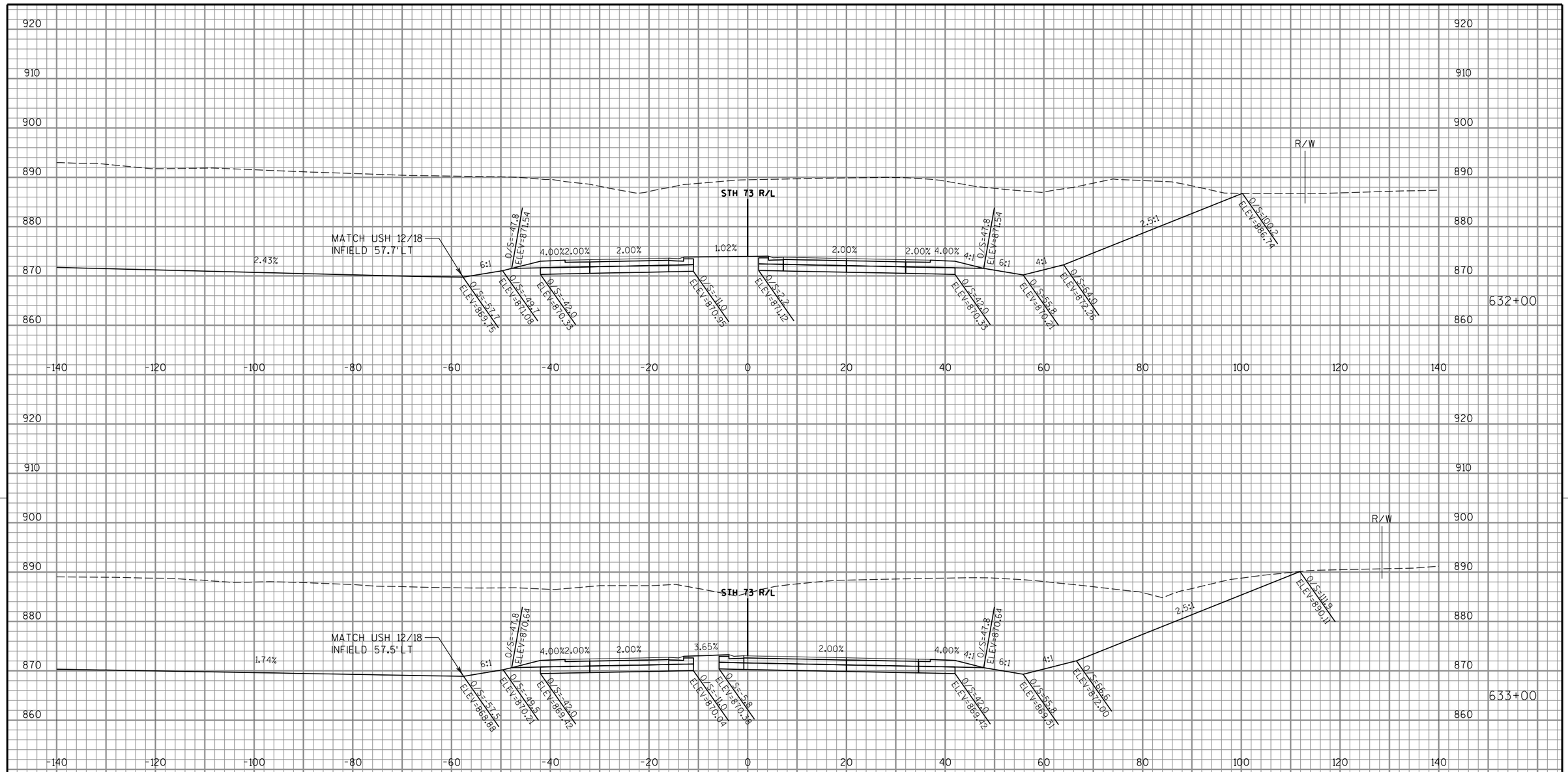
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 657	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

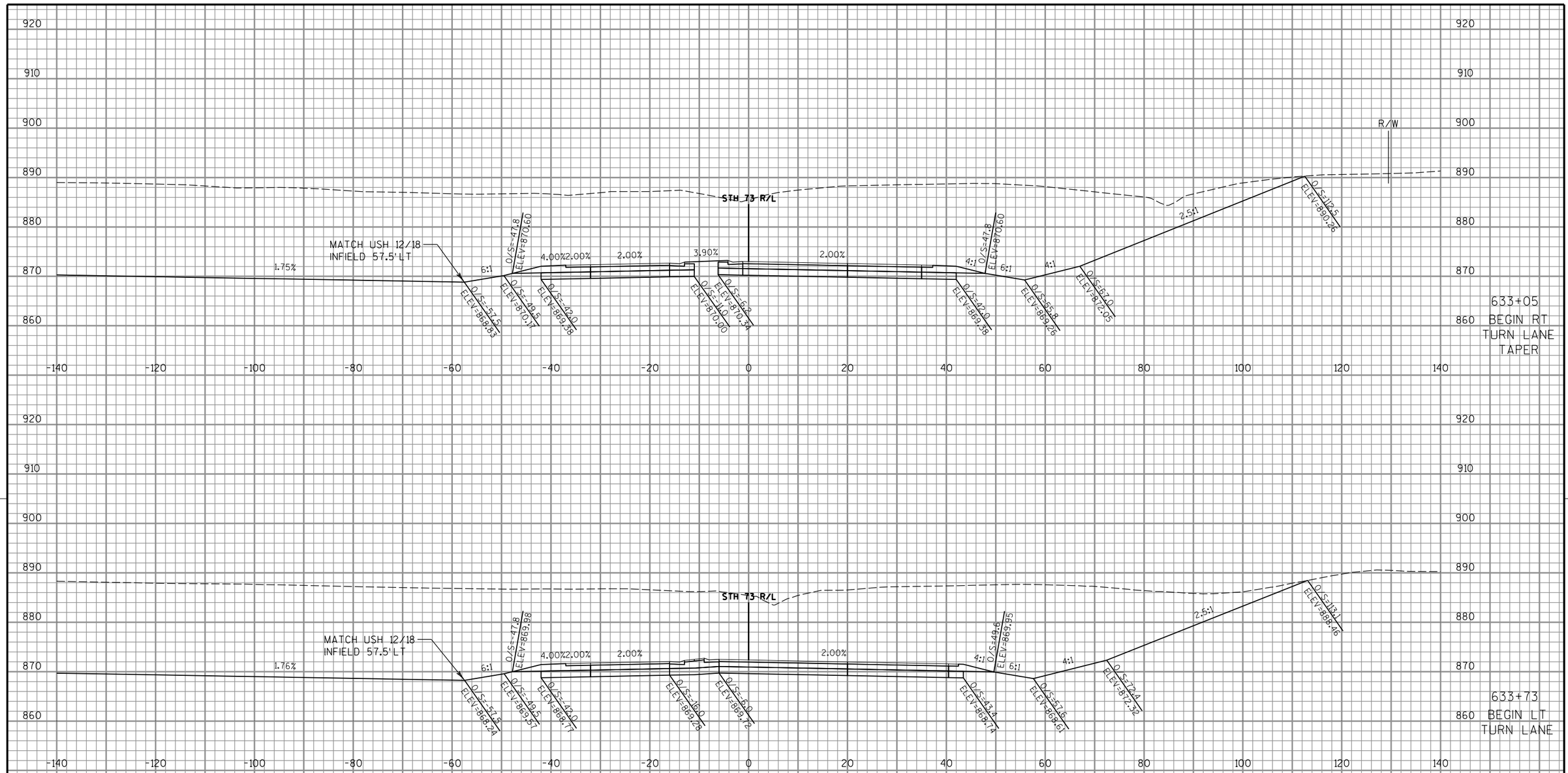
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 658	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



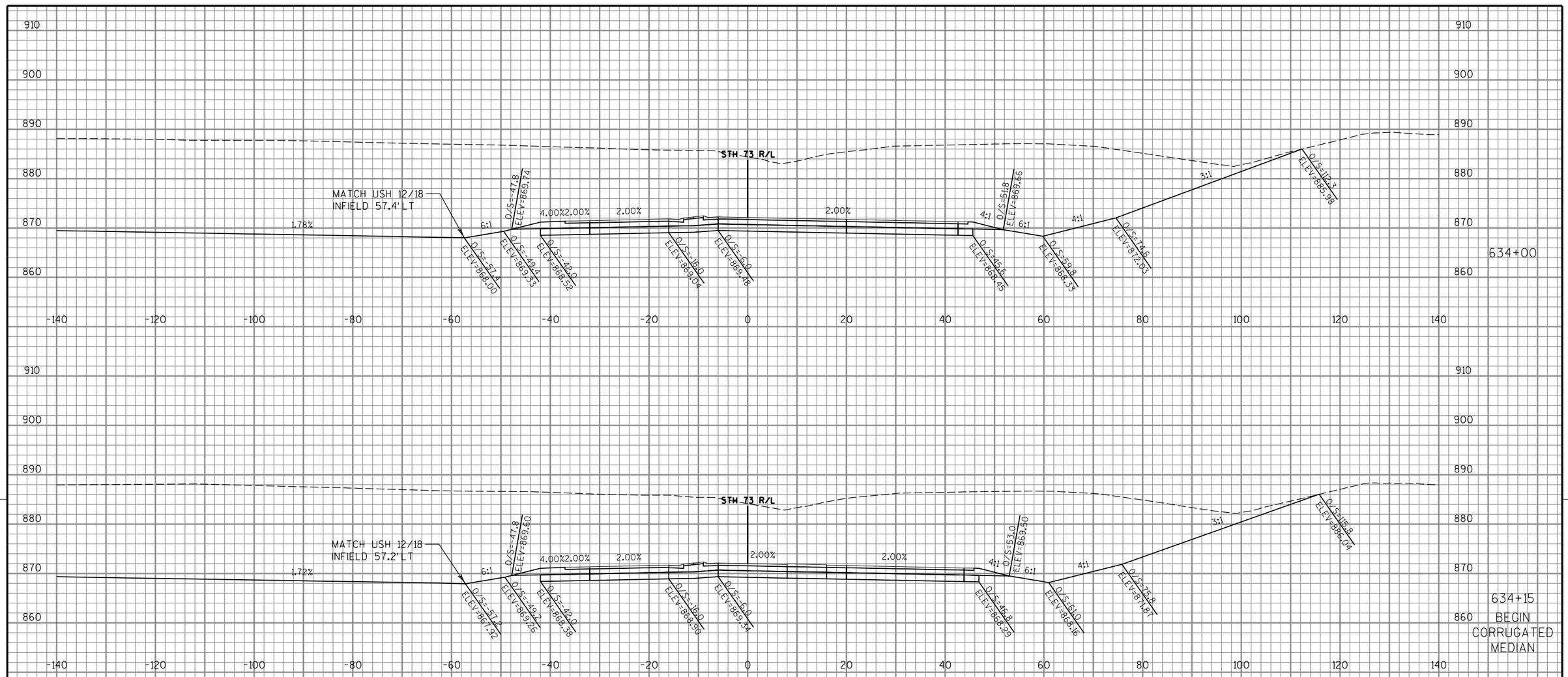
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 659	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

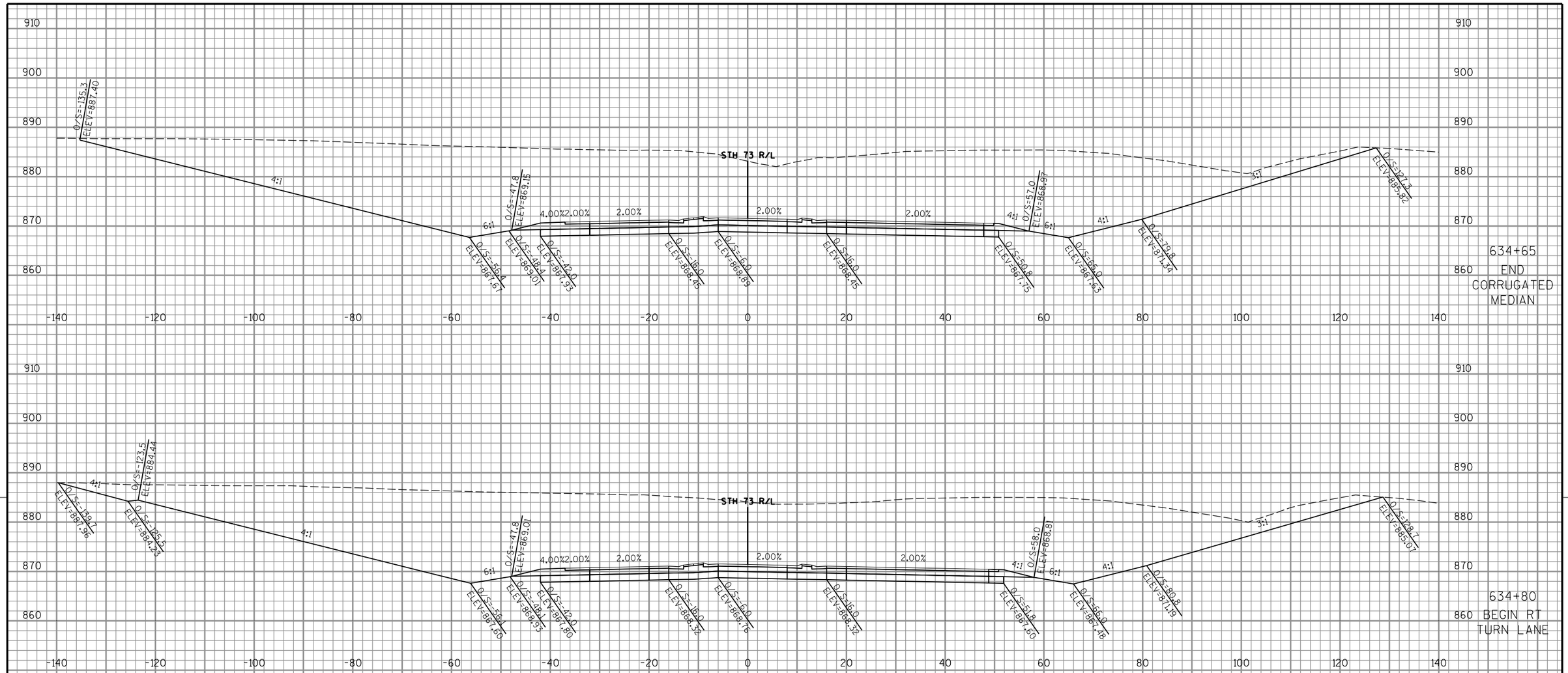
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 660	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

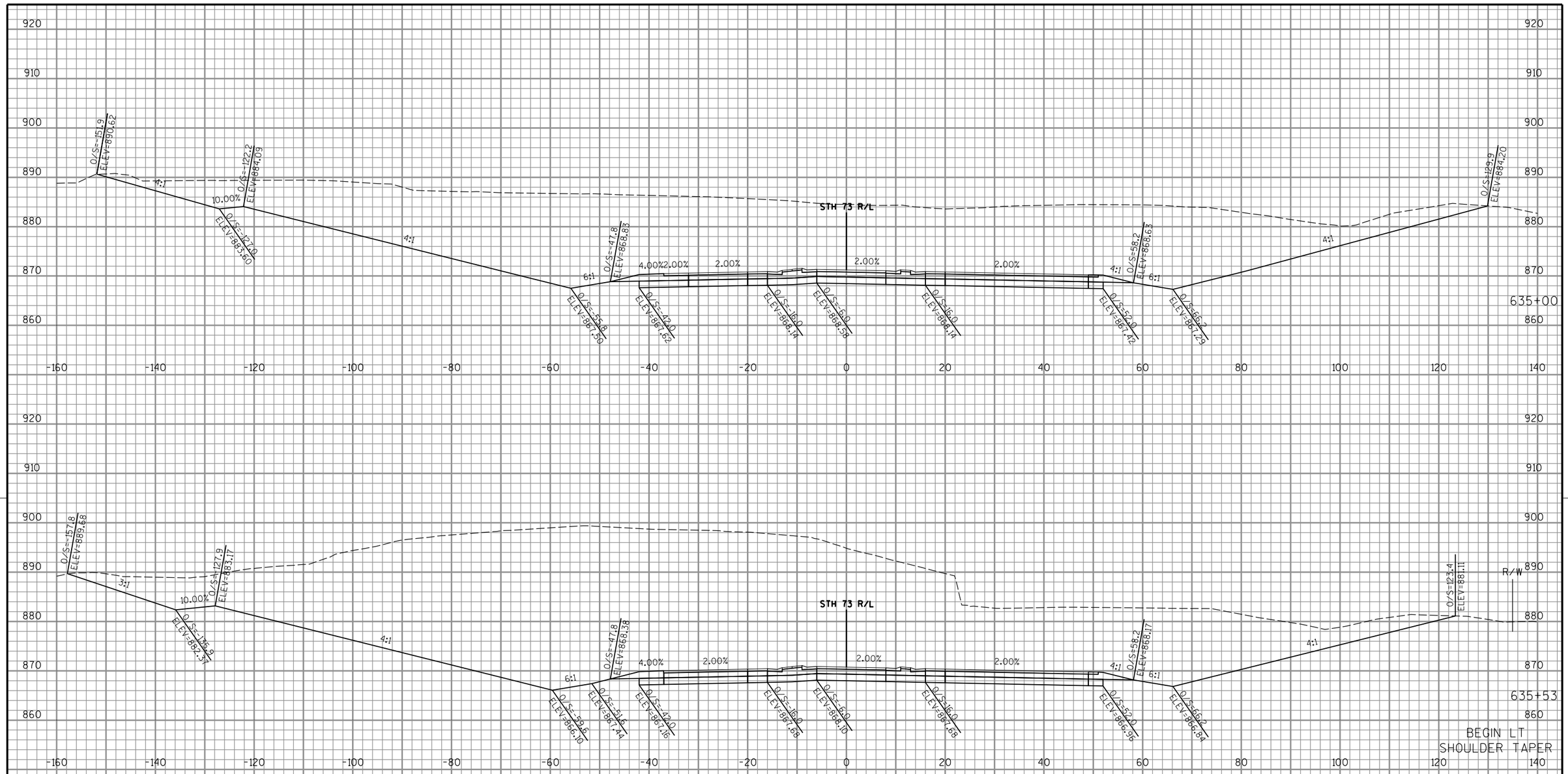
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 661	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

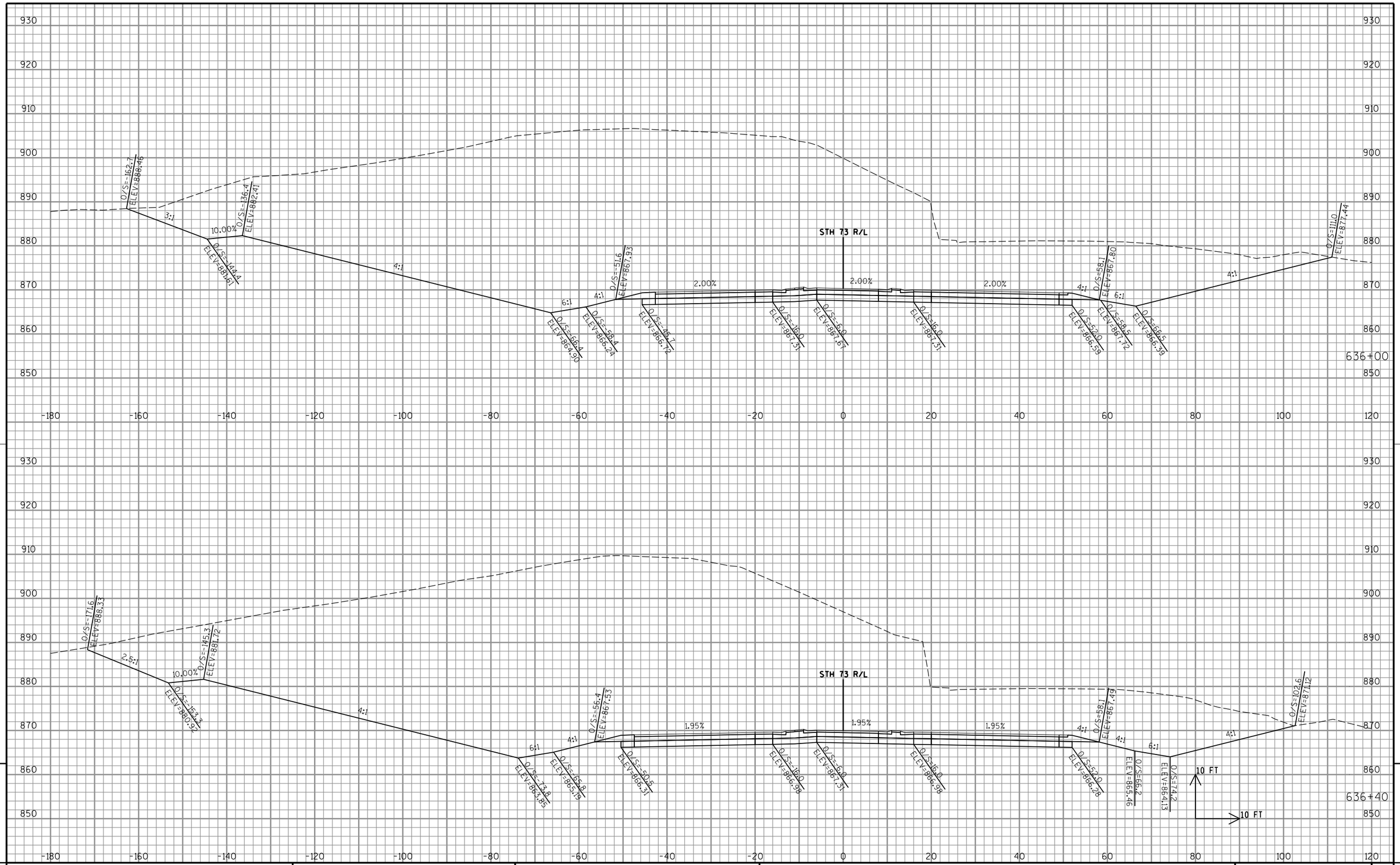
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 662	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

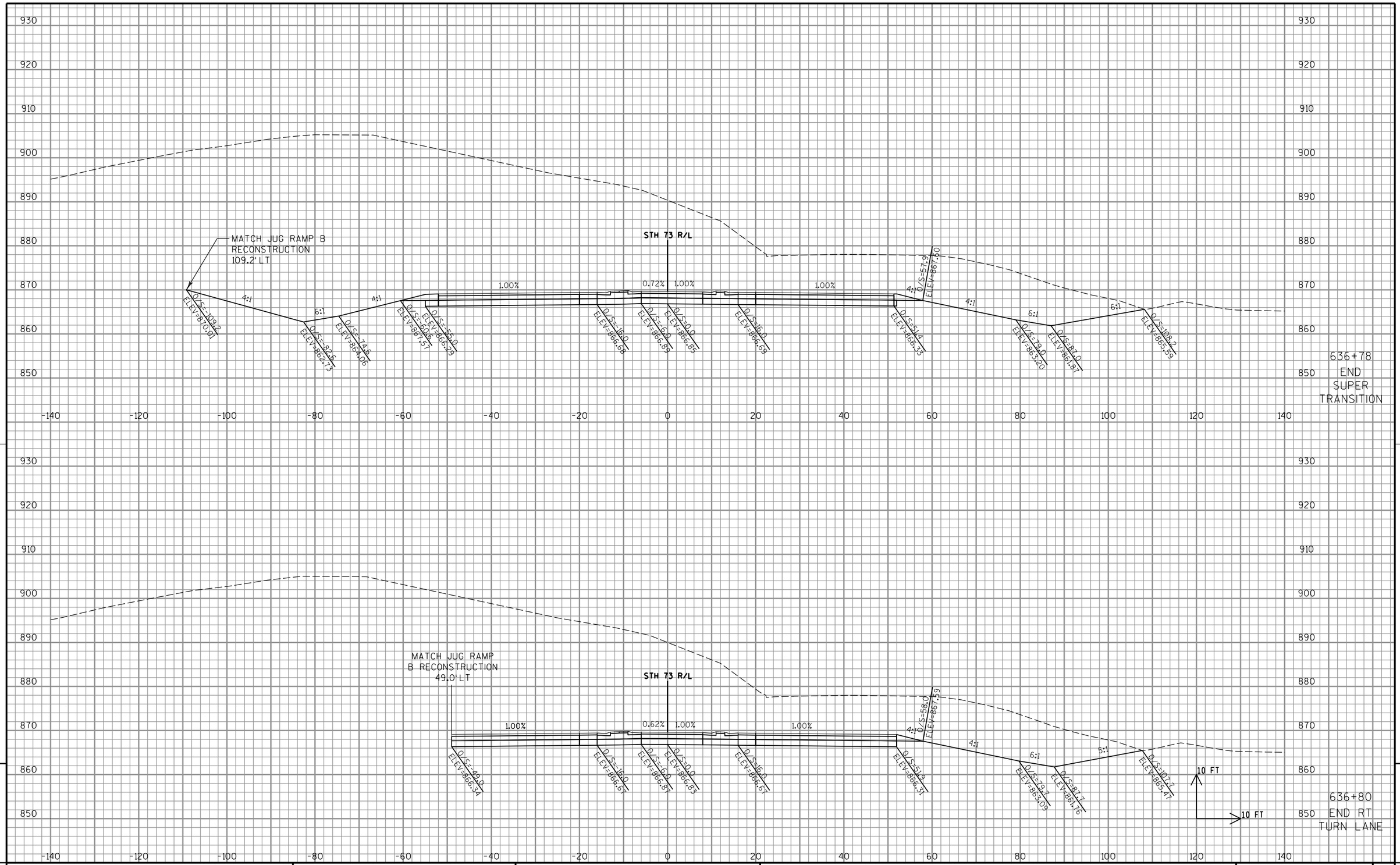
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 663	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

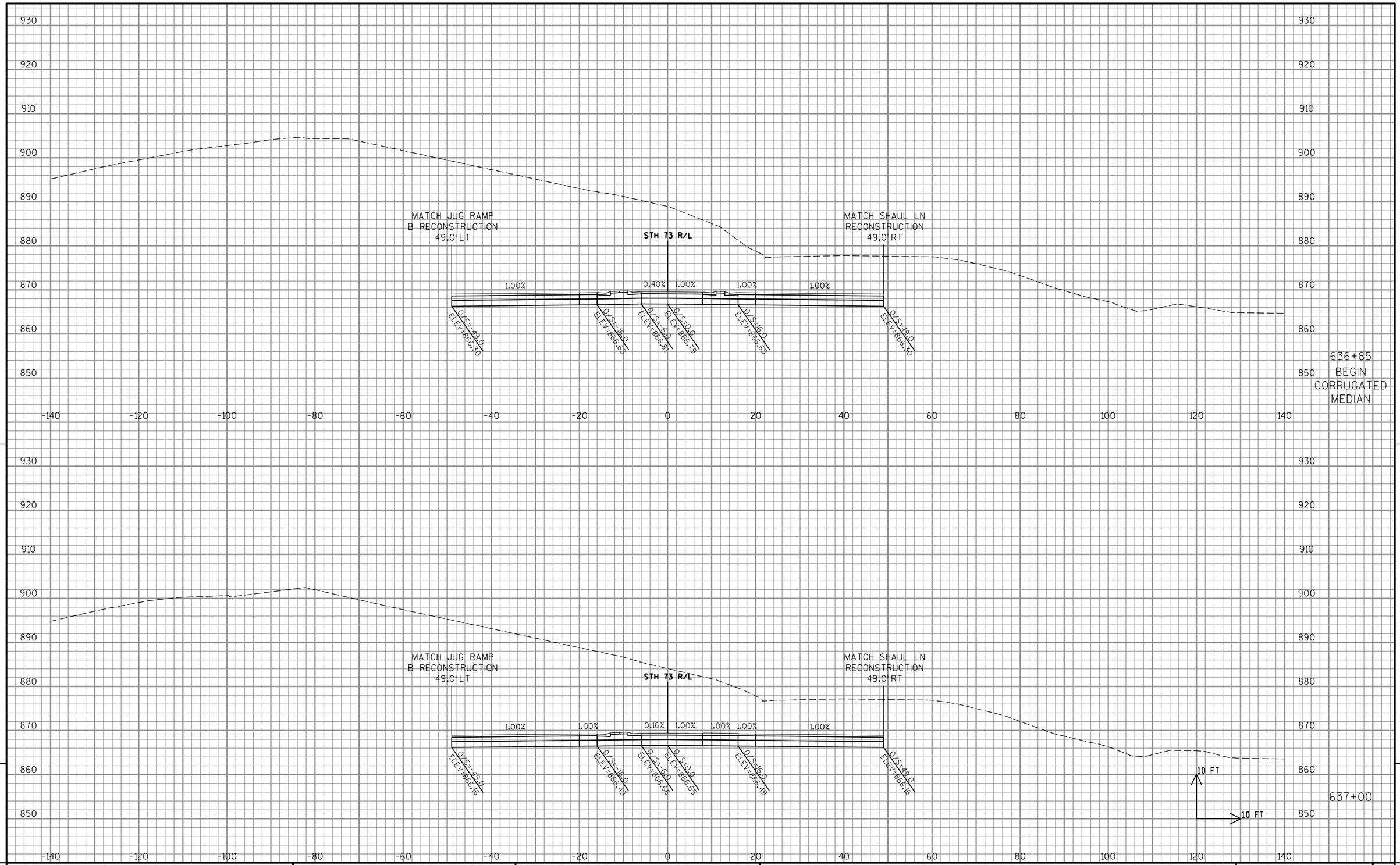


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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 664	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20



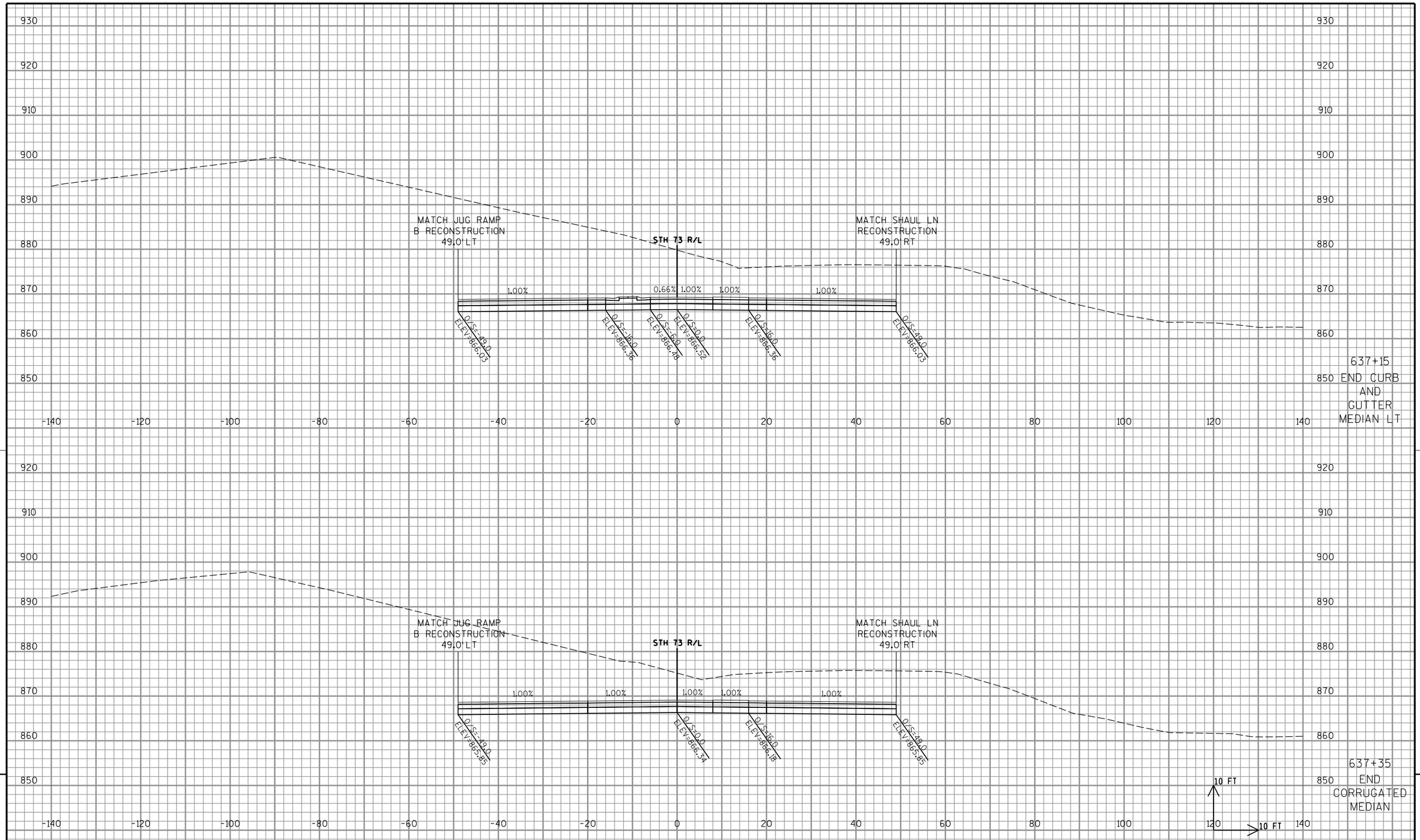
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 665	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



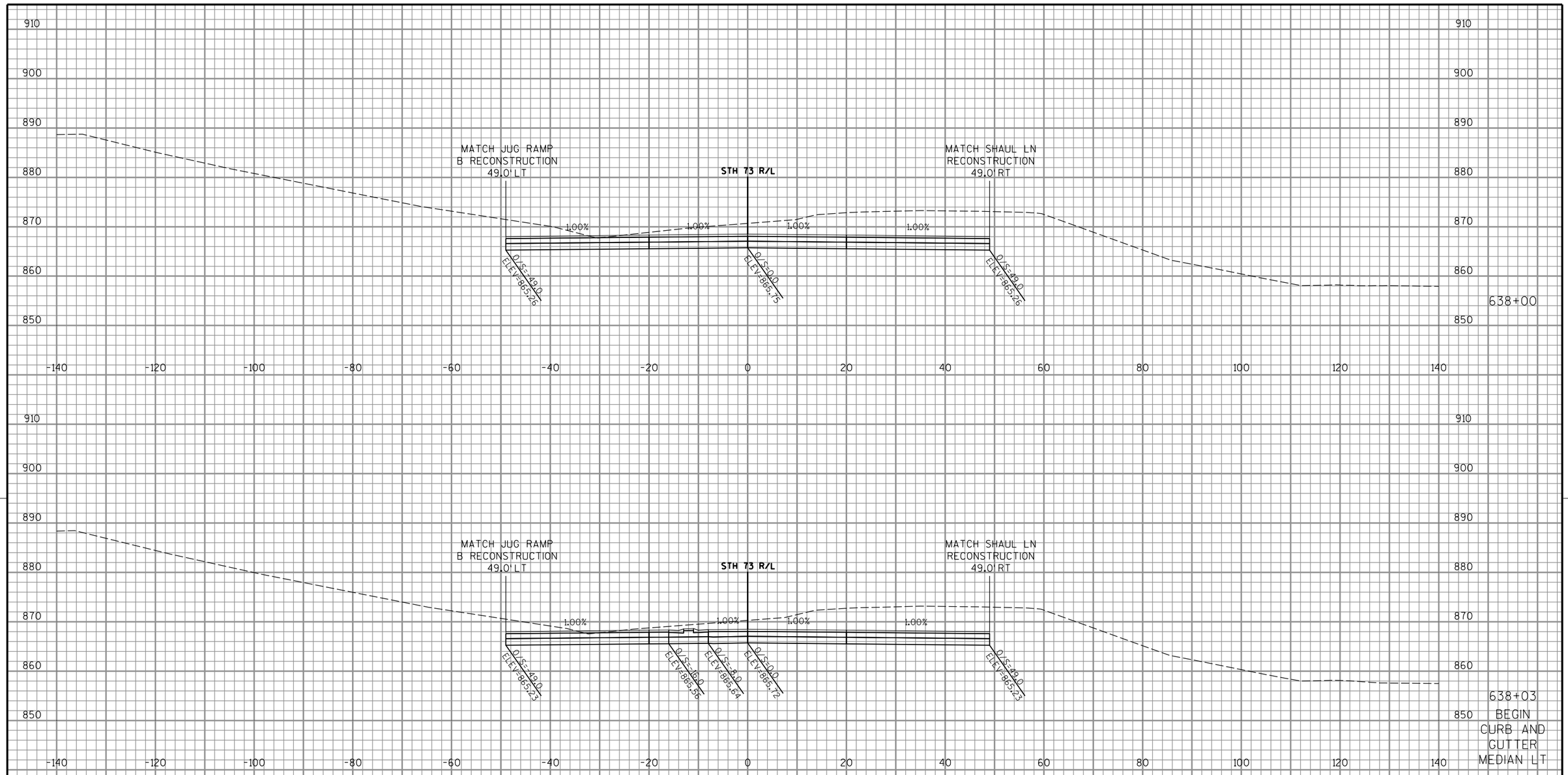
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 666	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

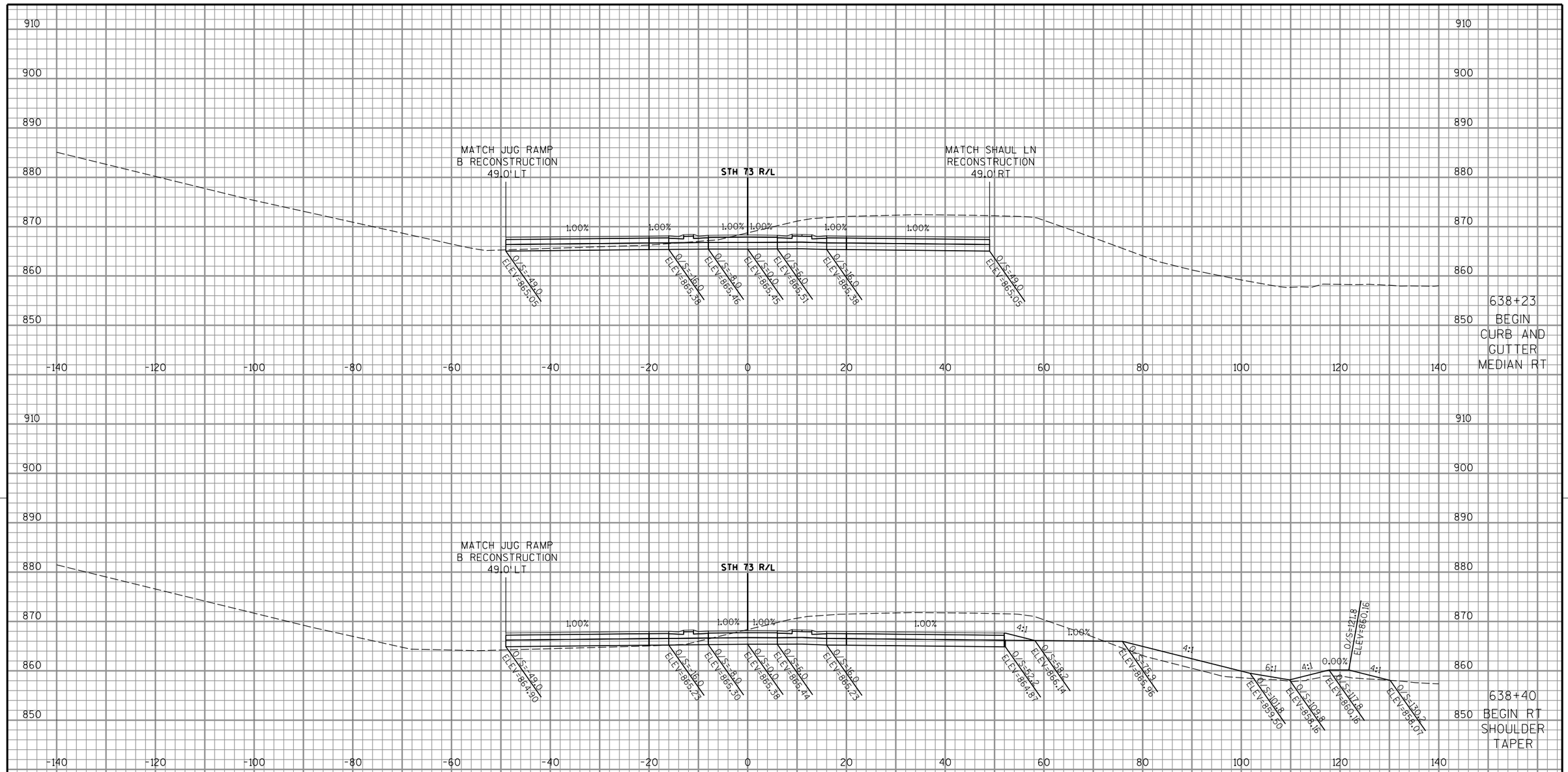
WISDOT/CADDS SHEET 21



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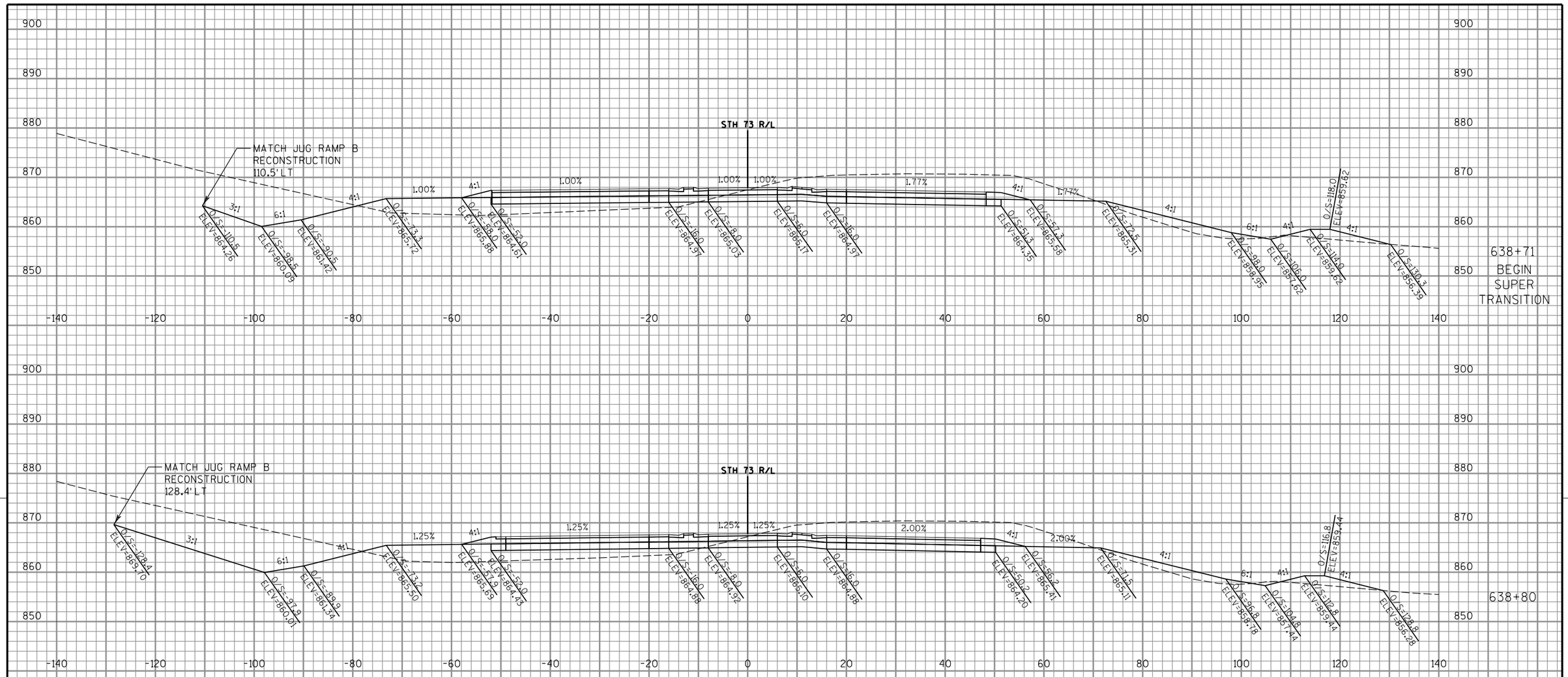
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 667	E



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 668	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

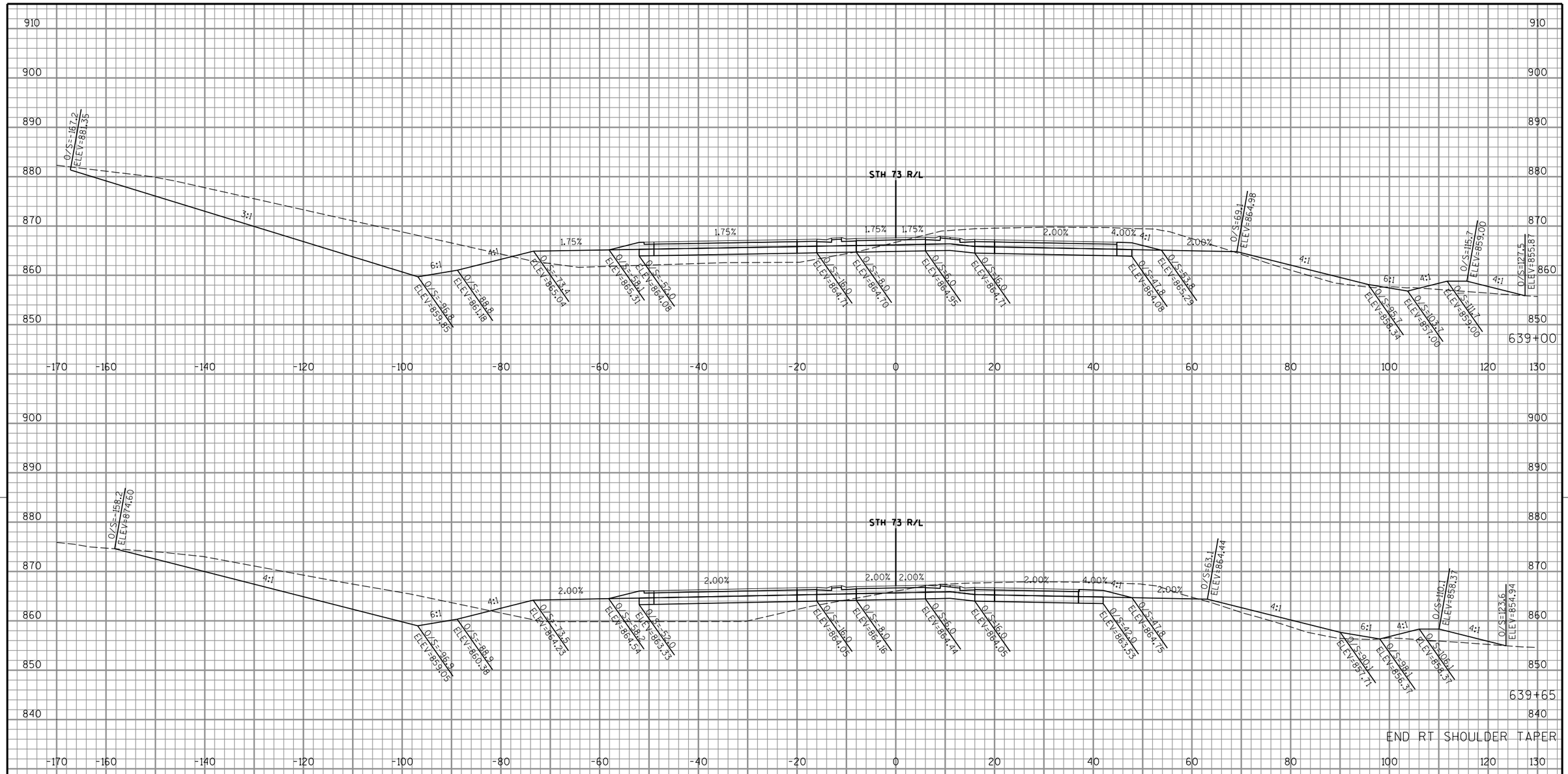
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 669	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

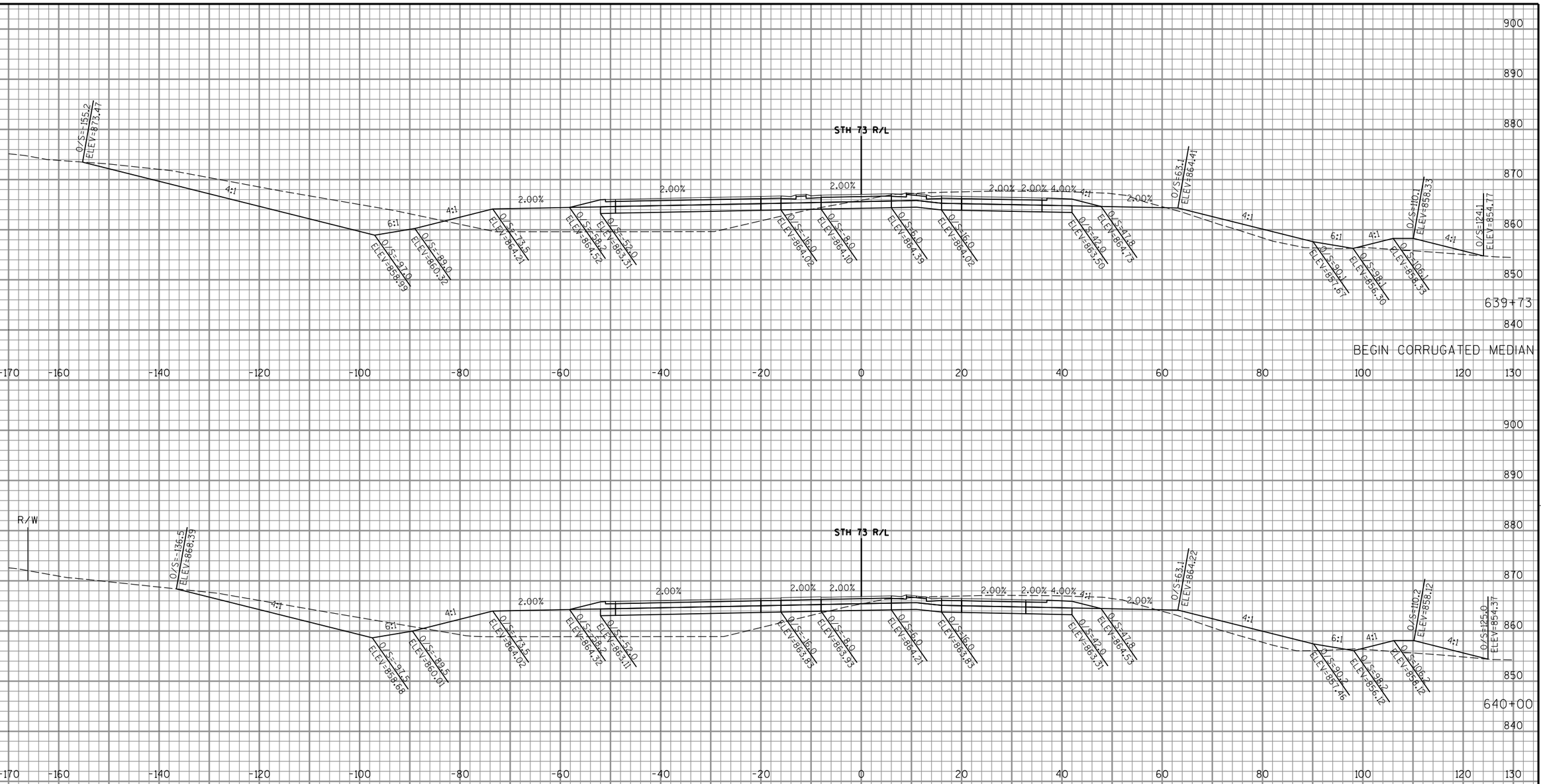
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 670	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

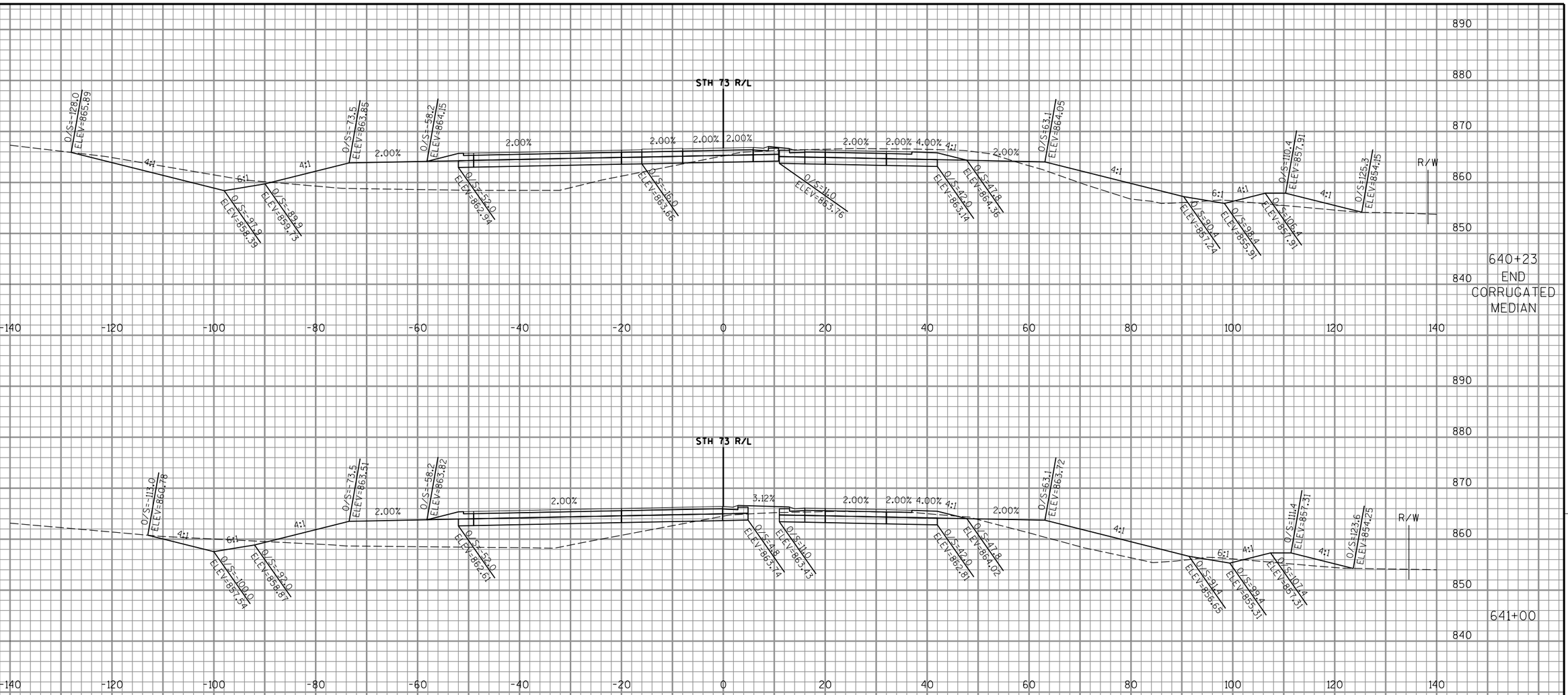
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 671	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

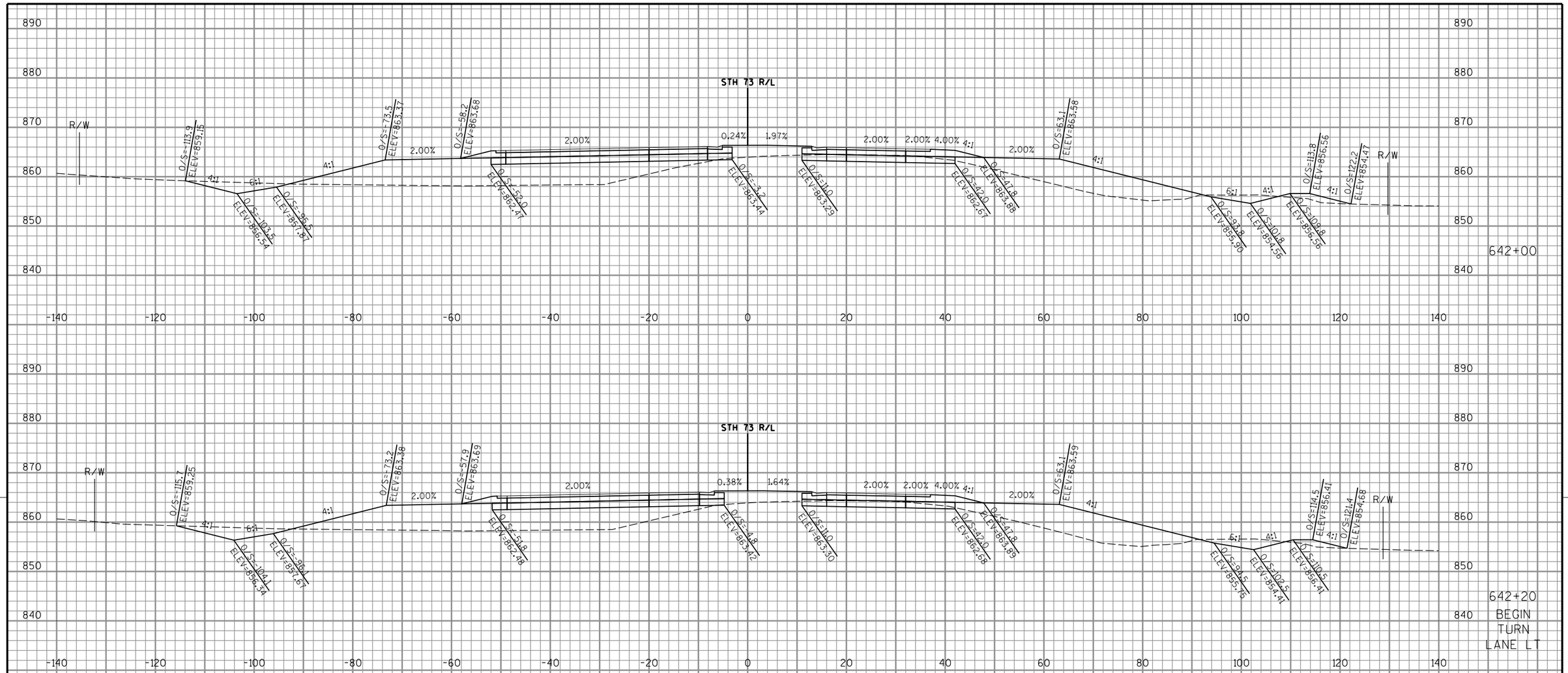
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 672	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



10 FT
10 FT

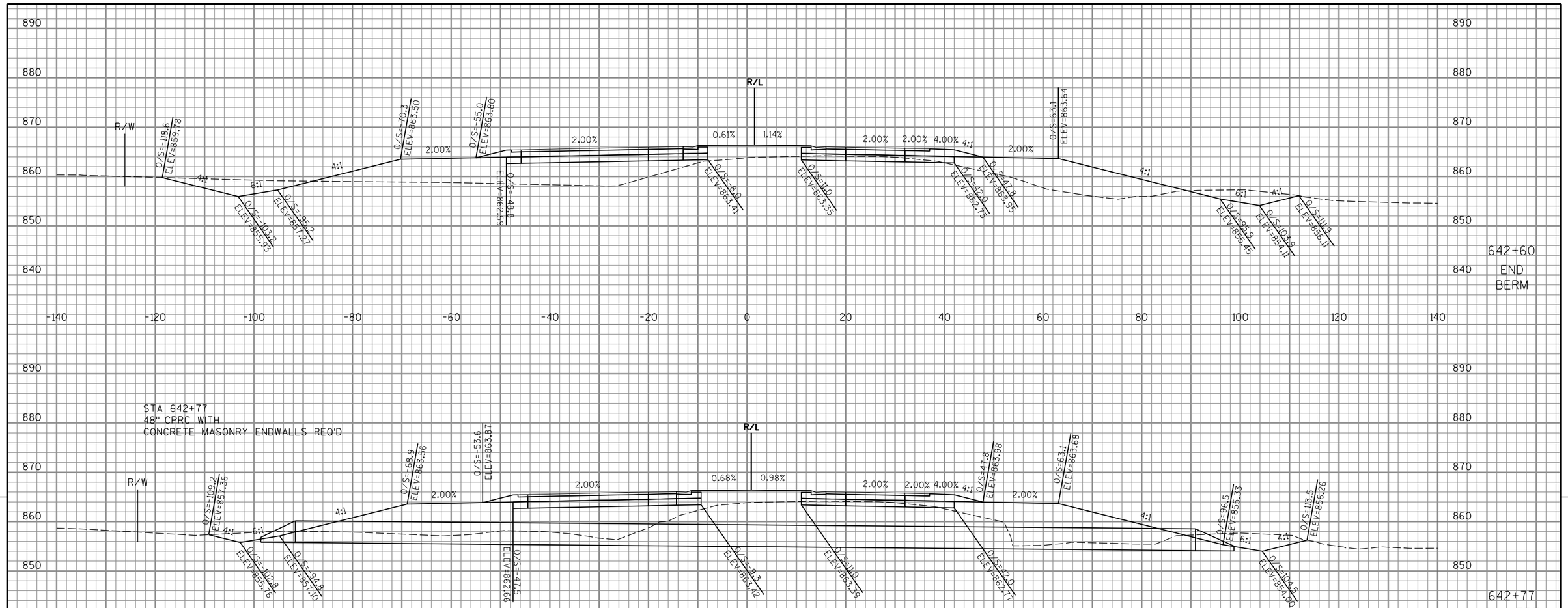
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 673	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



STA 642+77
48" CPRC WITH
CONCRETE MASONRY ENDWALLS REQ'D

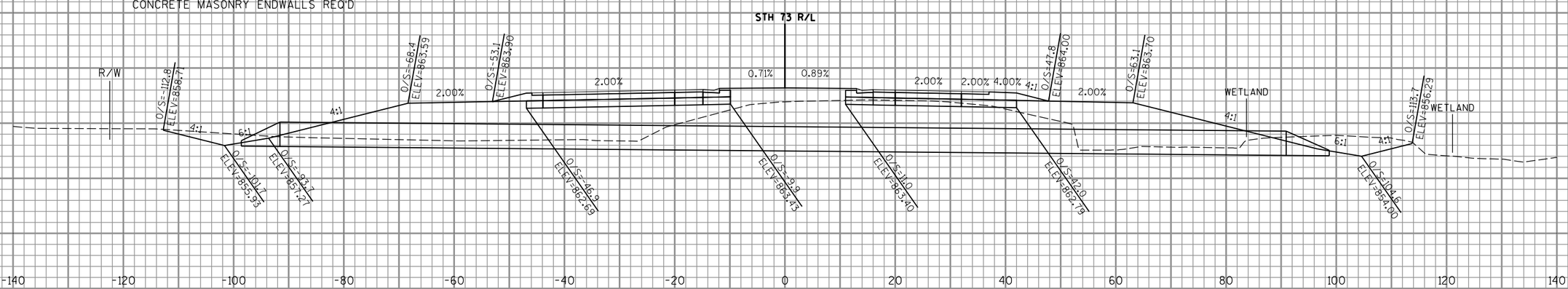
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 674	E

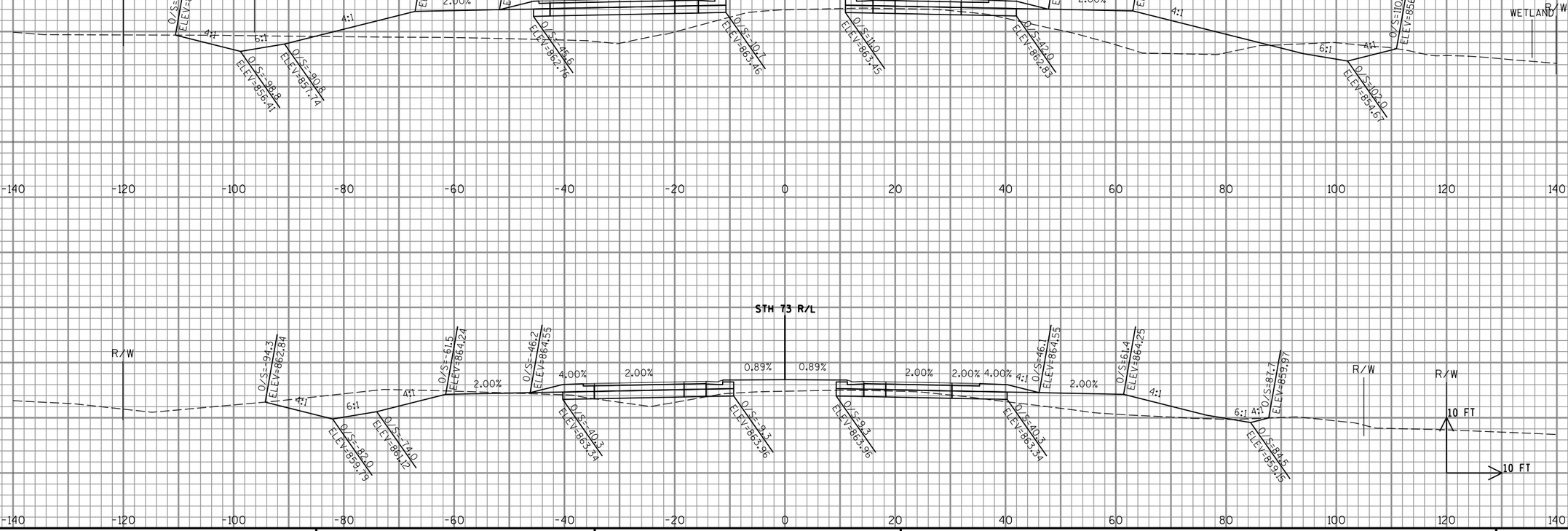
FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

STA 642+84
48" CPRC WITH
CONCRETE MASONRY ENDWALLS REQ'D



642+84
CULVERT



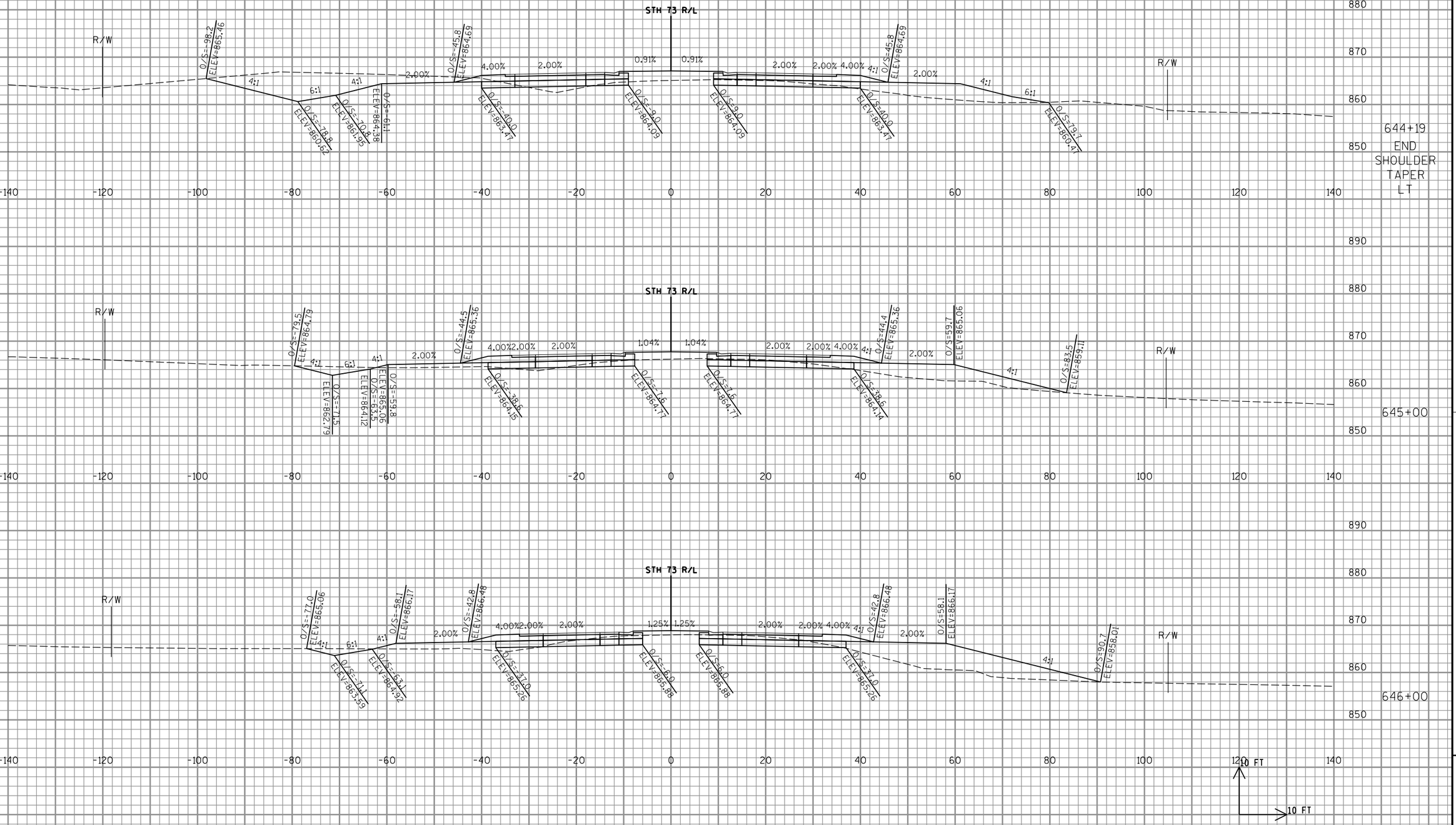
643+00

644+00

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 675	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

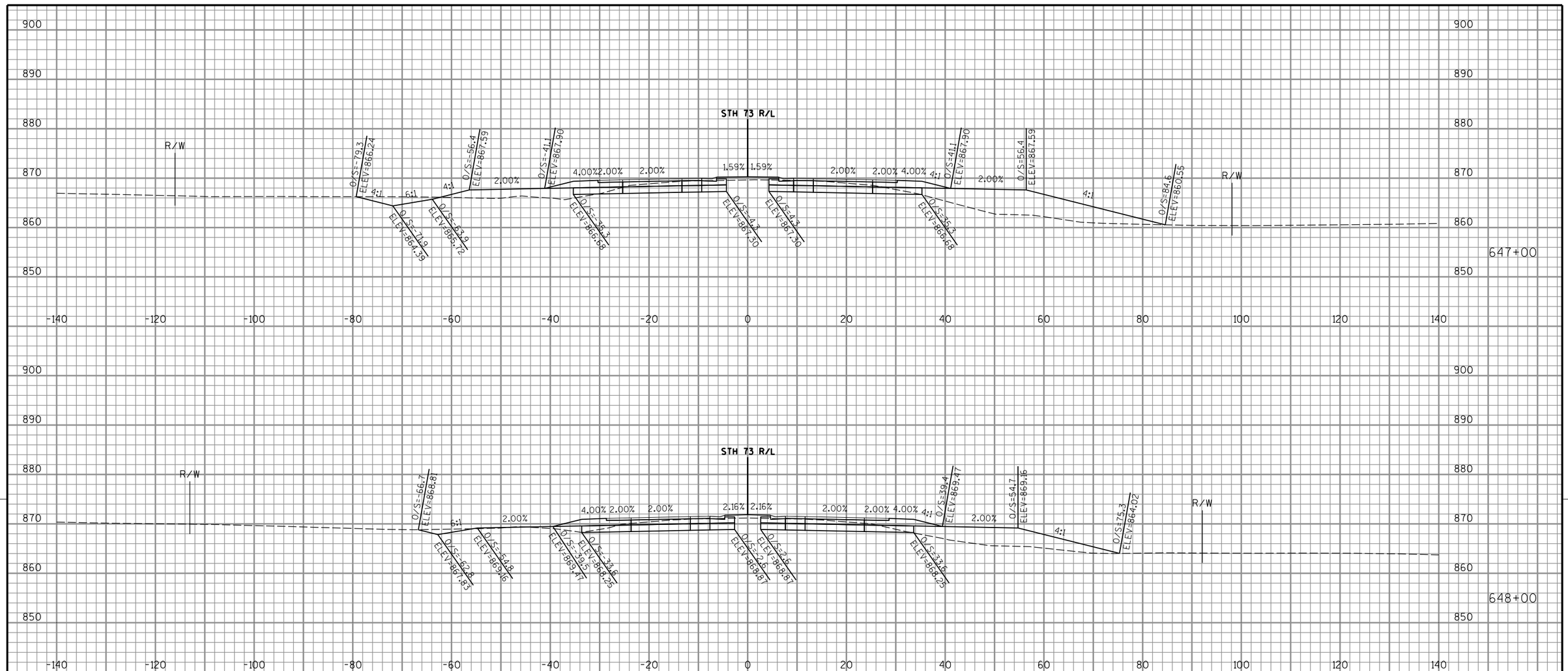
WISDOT/CADDS SHEET 21

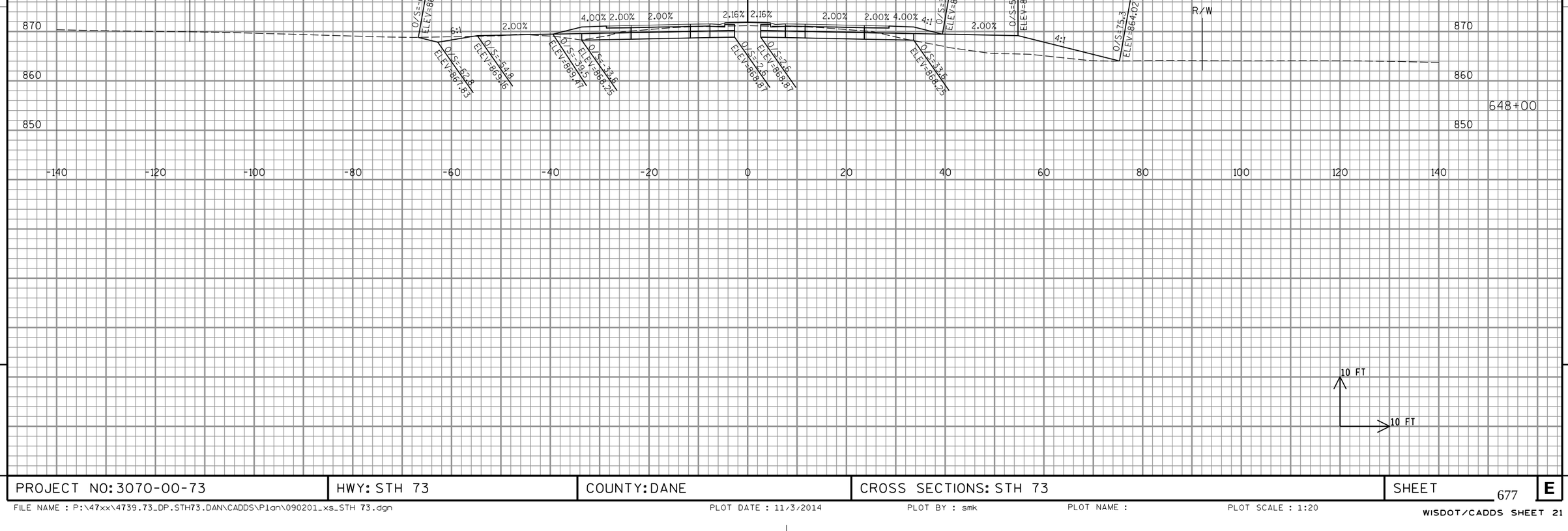


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 676	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





10 FT
10 FT

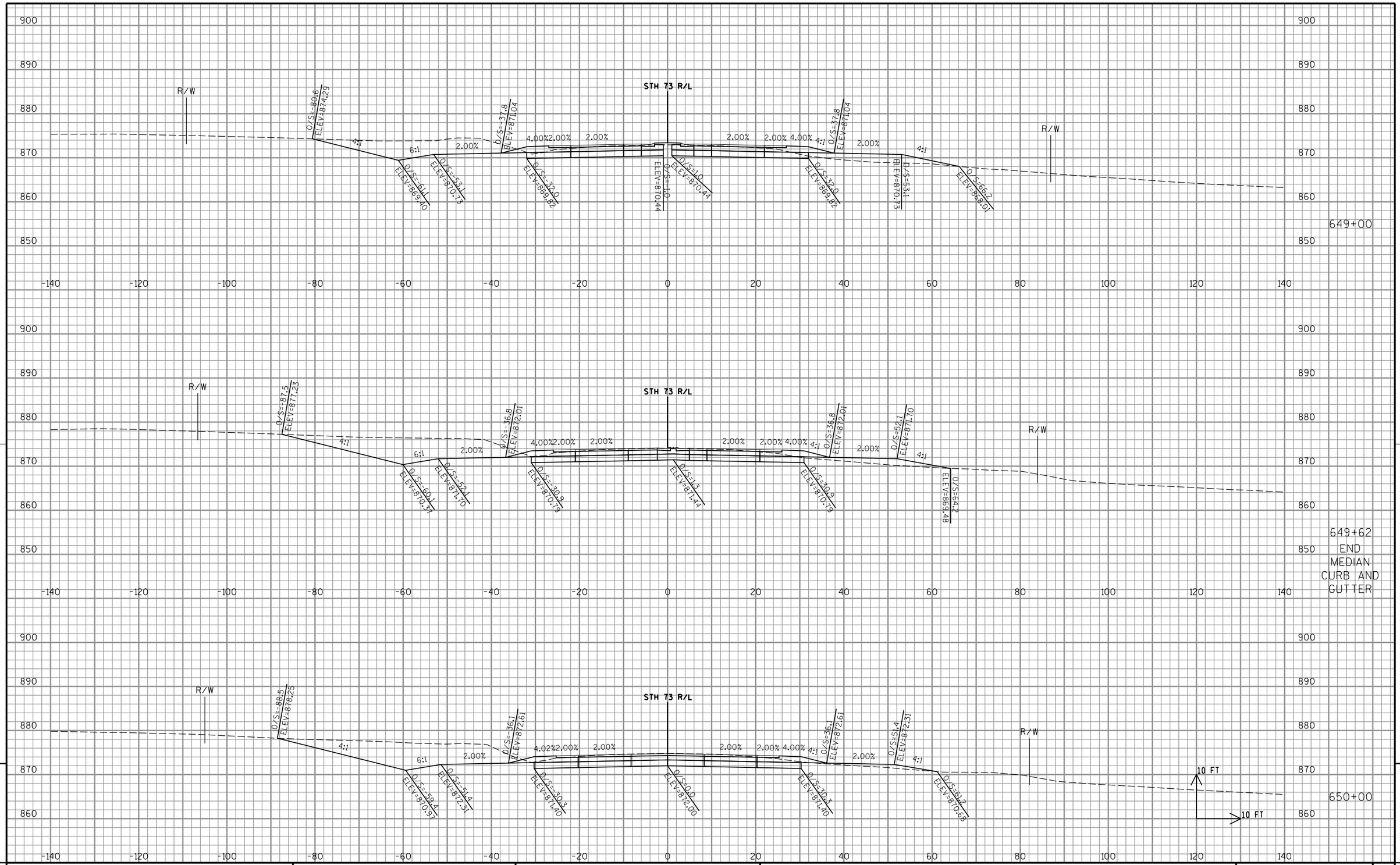
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 677	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



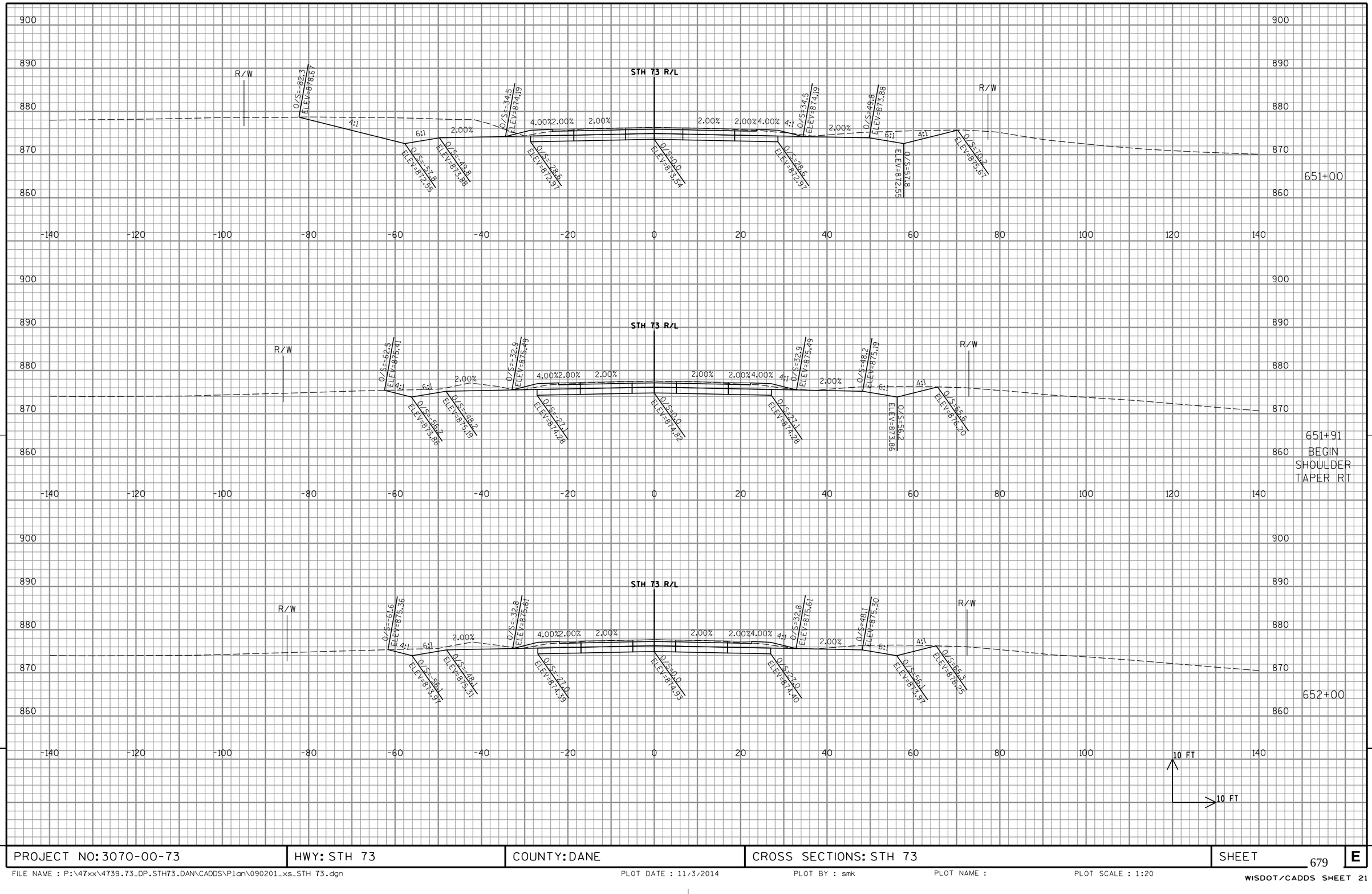
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 678	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 679	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

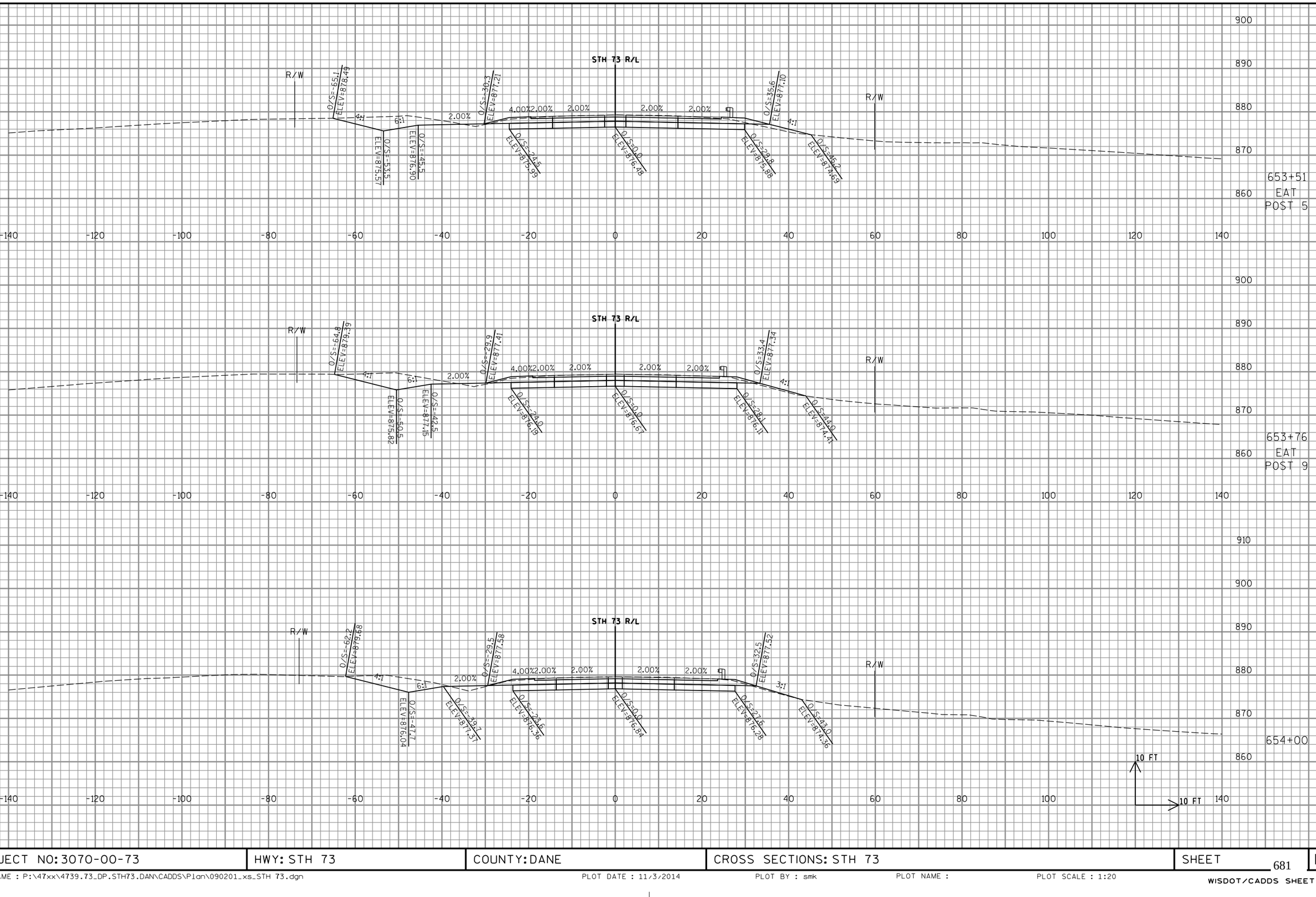
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 680	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



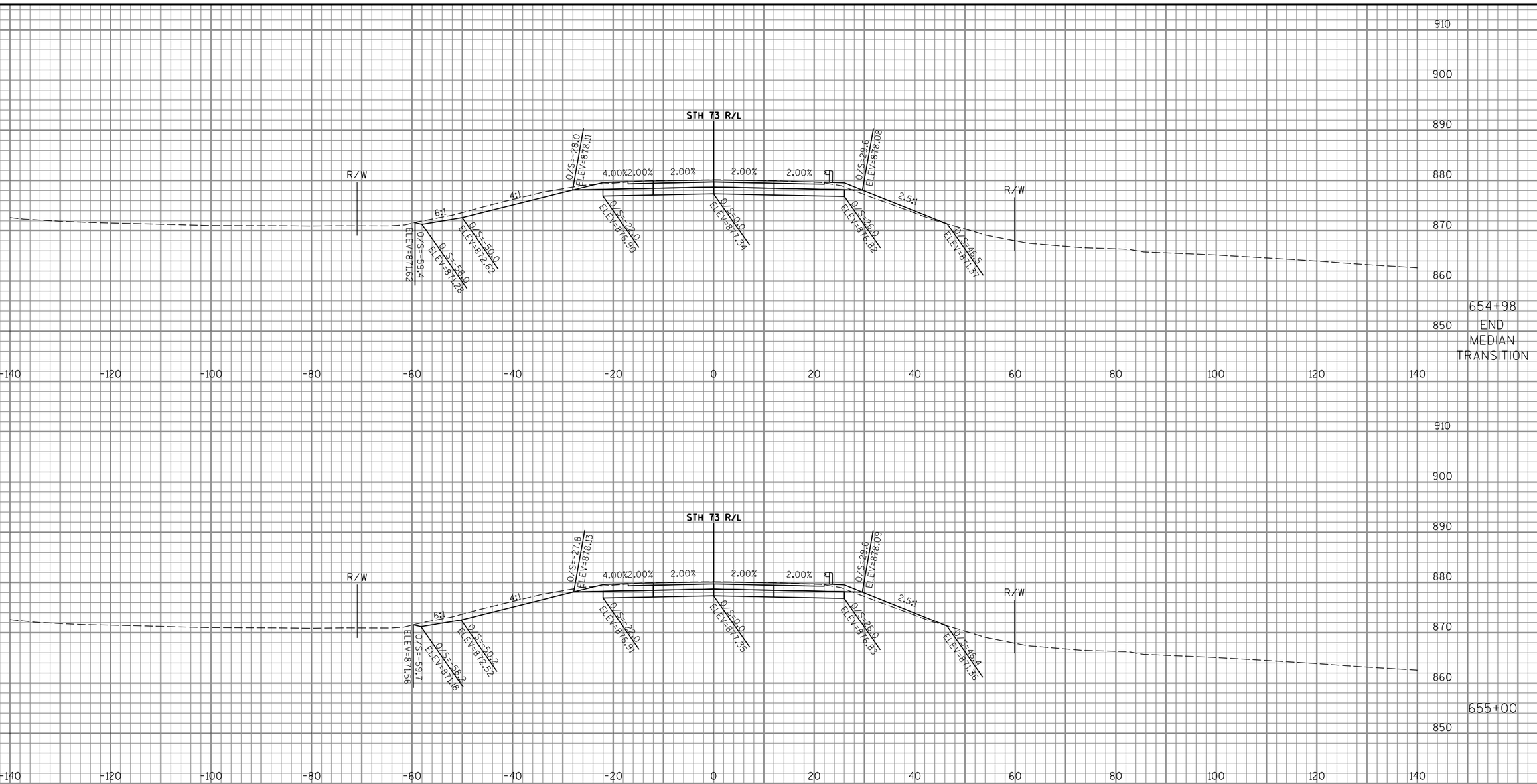
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 681	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

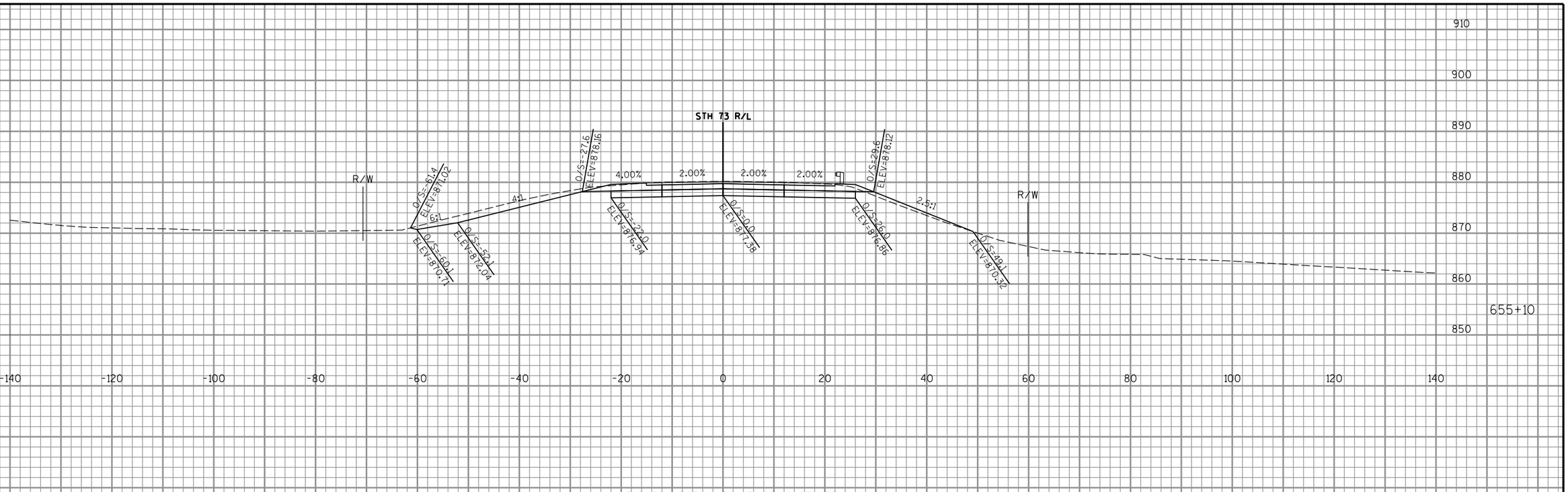
WISDOT/CADDS SHEET 21

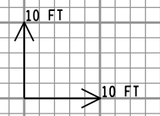


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 682	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





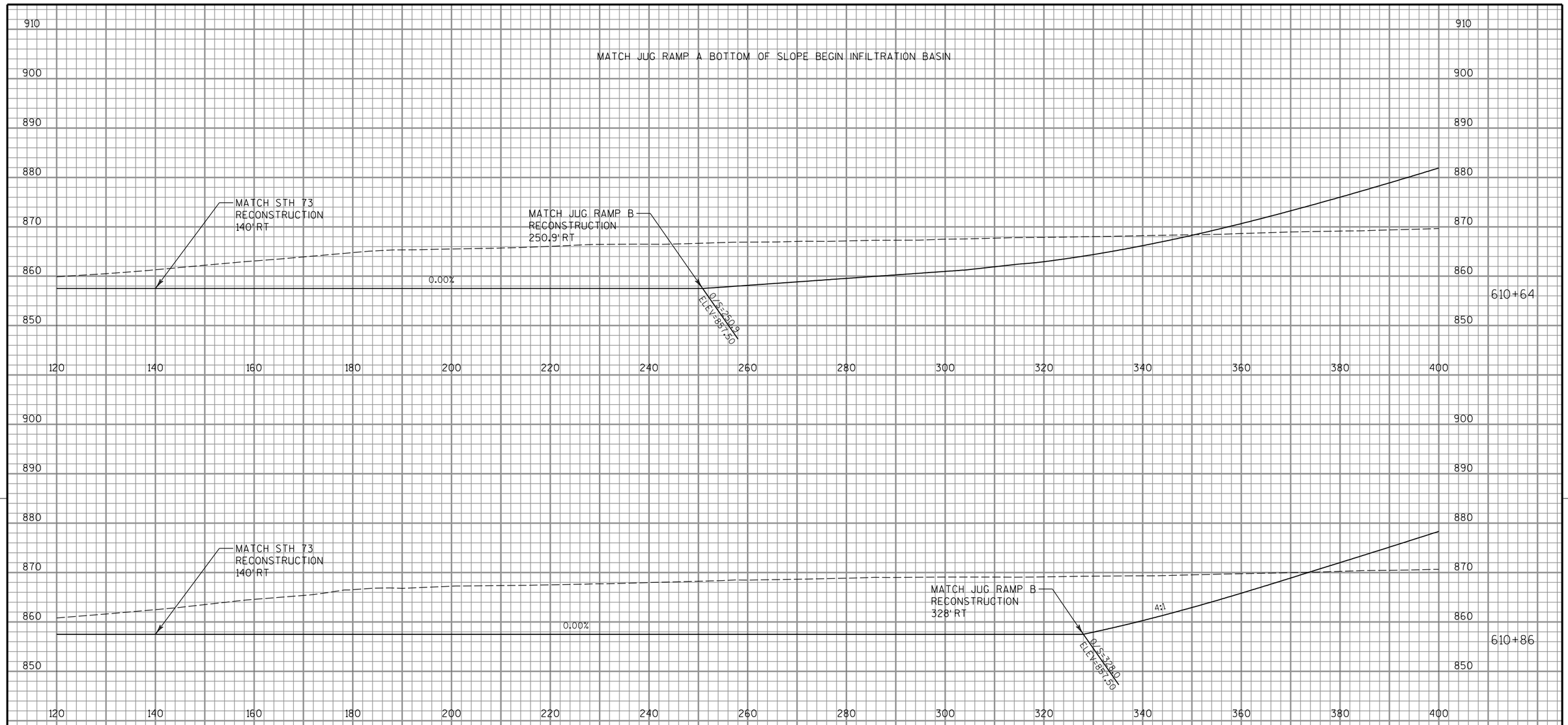
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73	SHEET 683	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



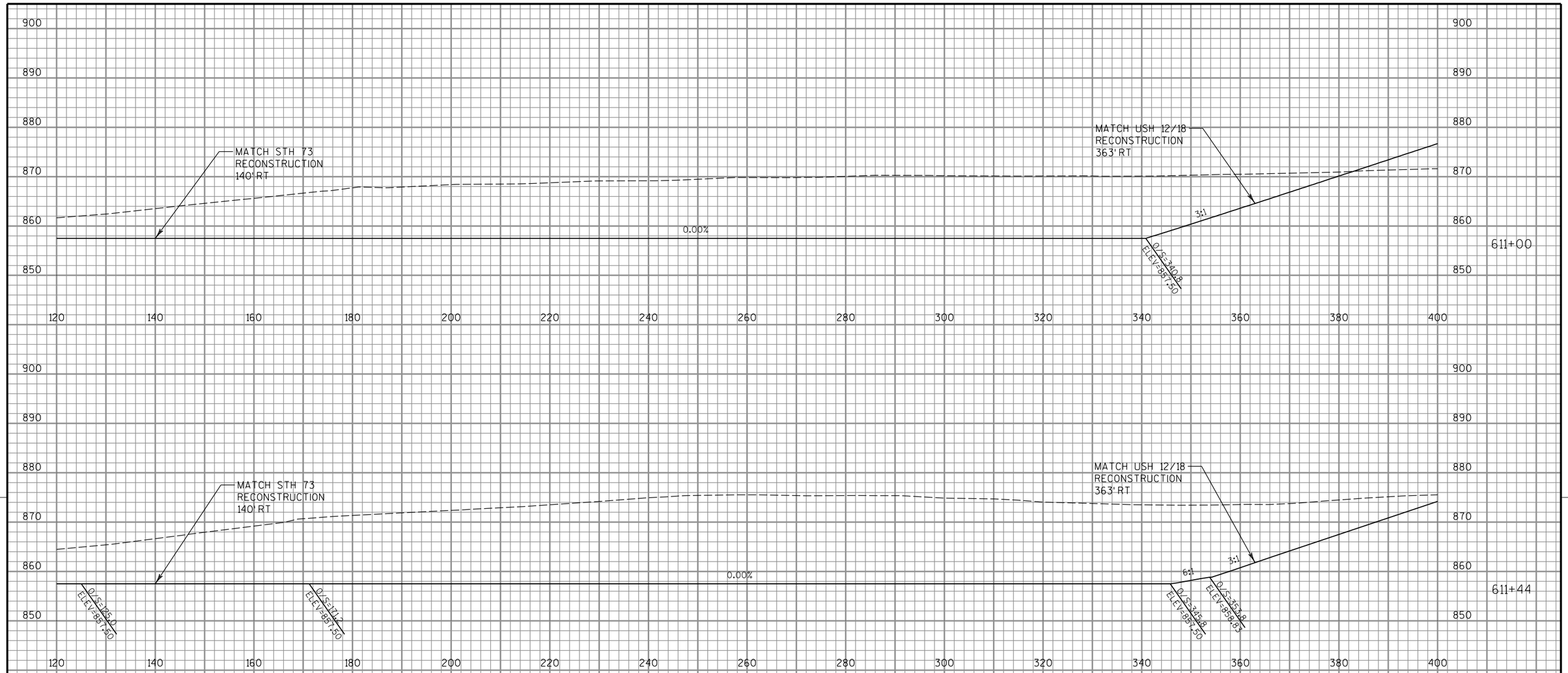
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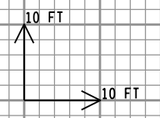
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 684	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





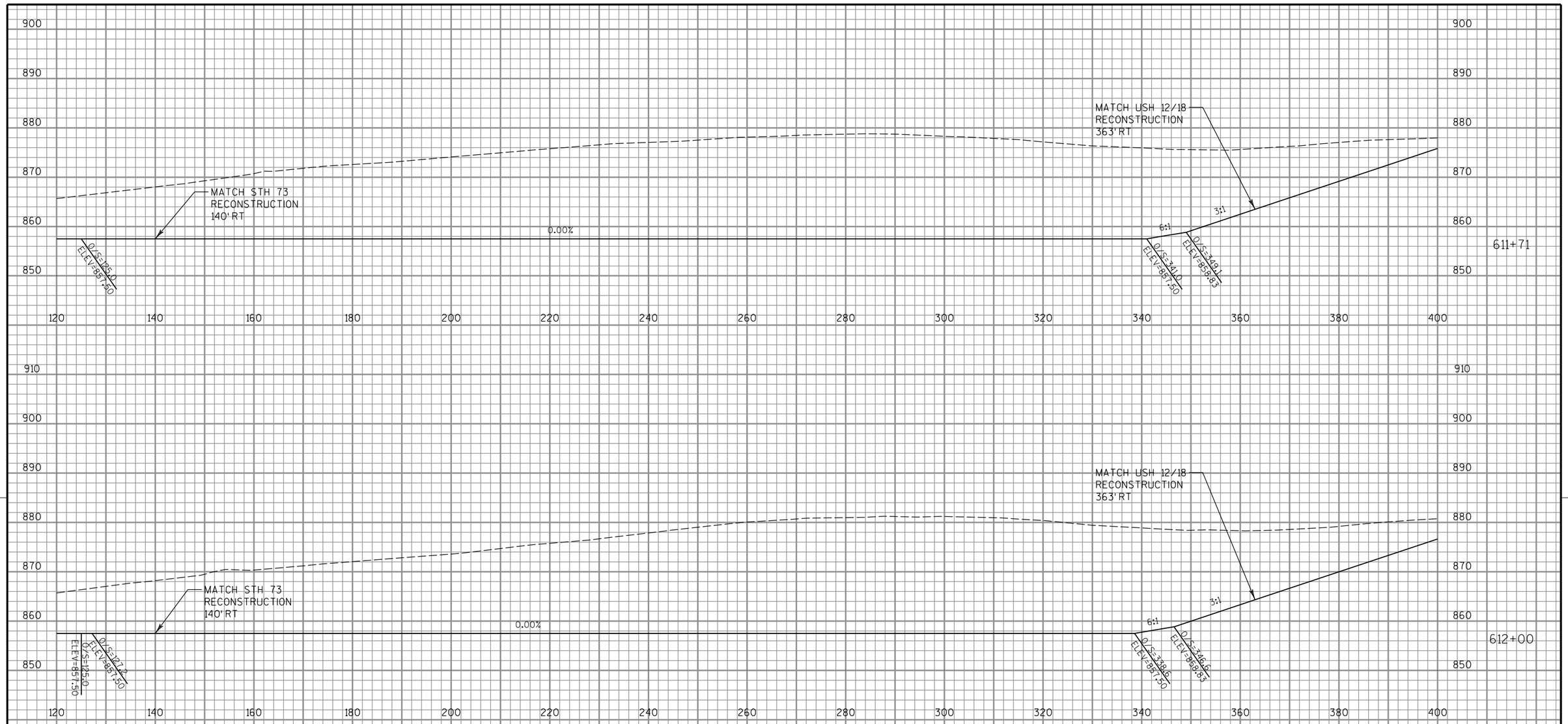
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 685	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



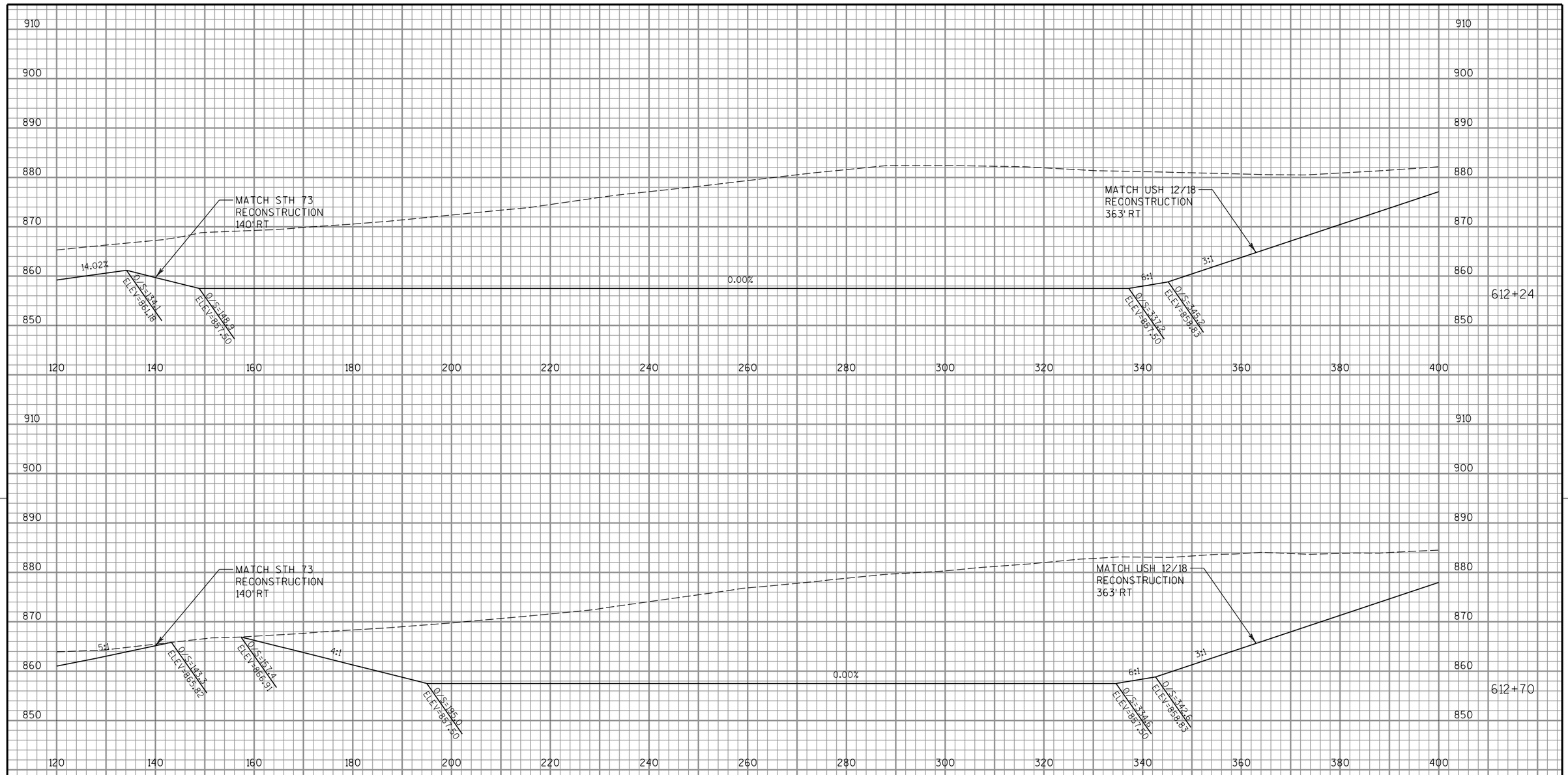
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 686	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

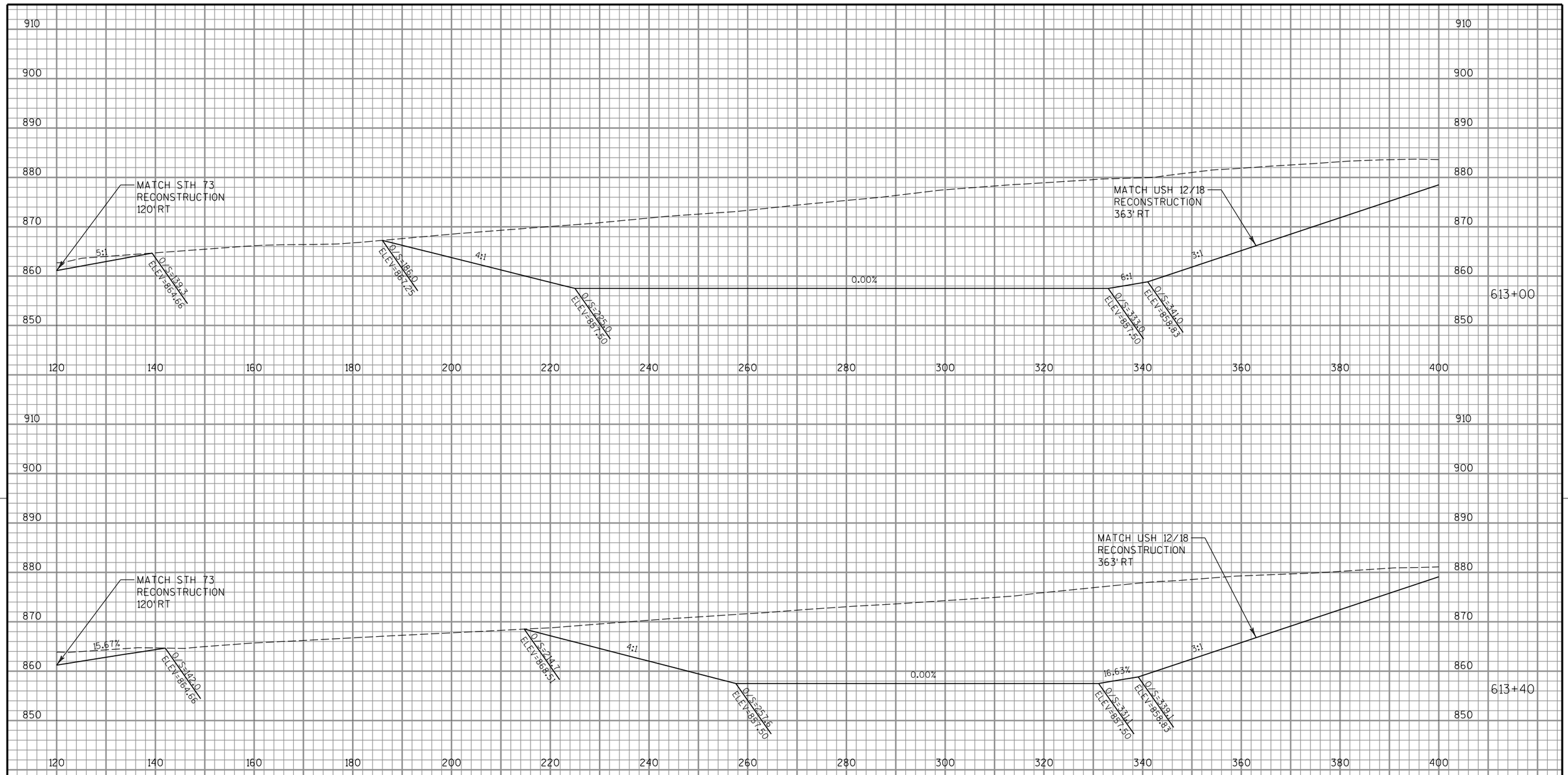
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 687	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

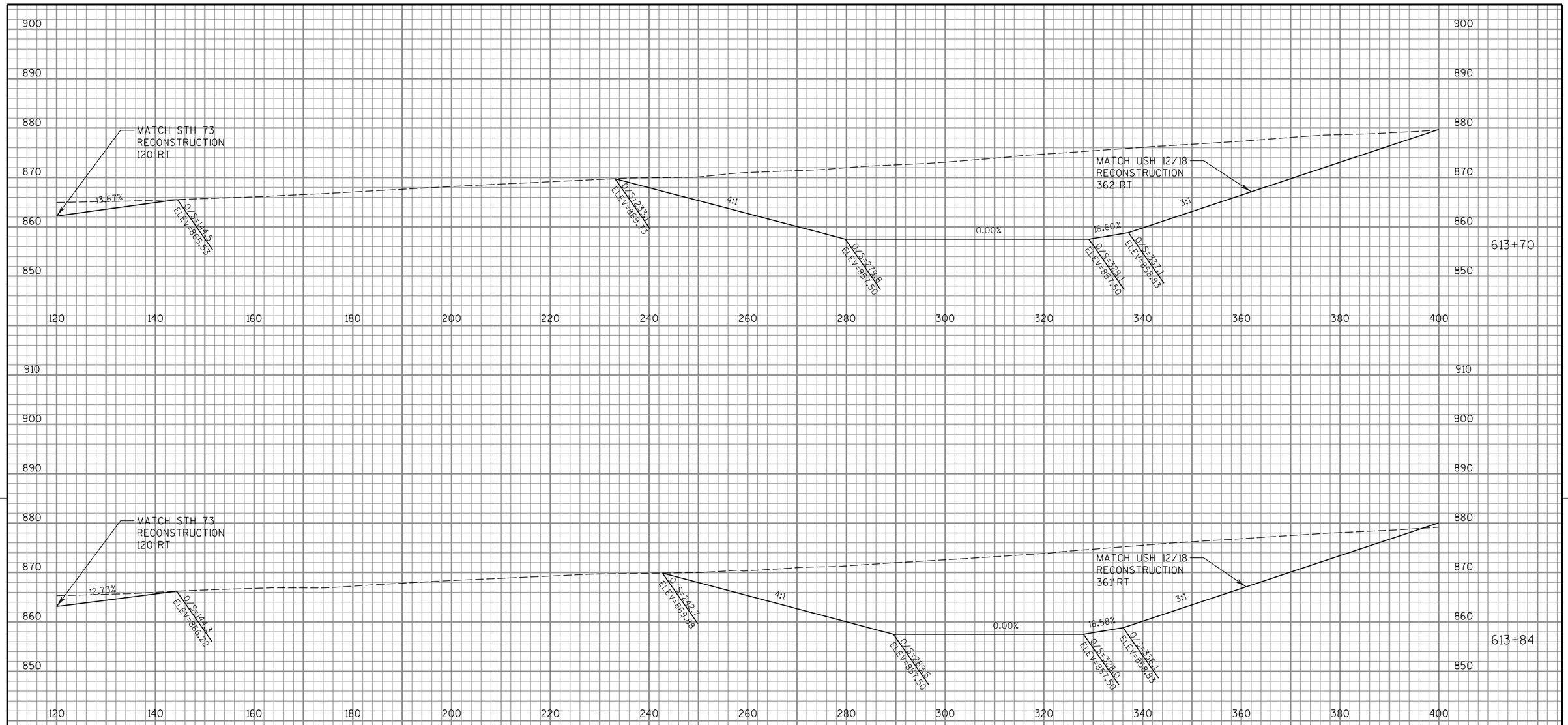
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 688	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



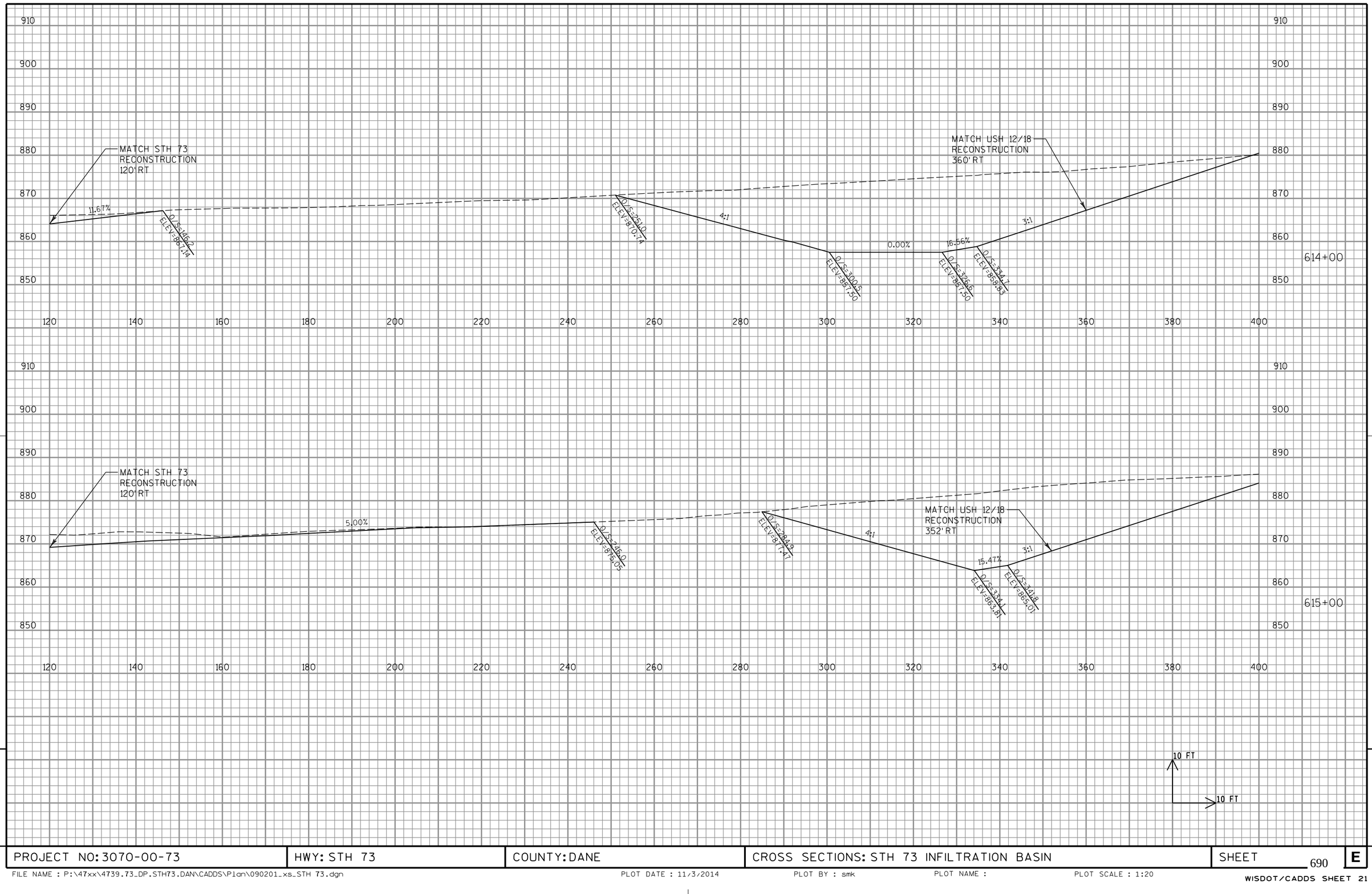
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 689	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

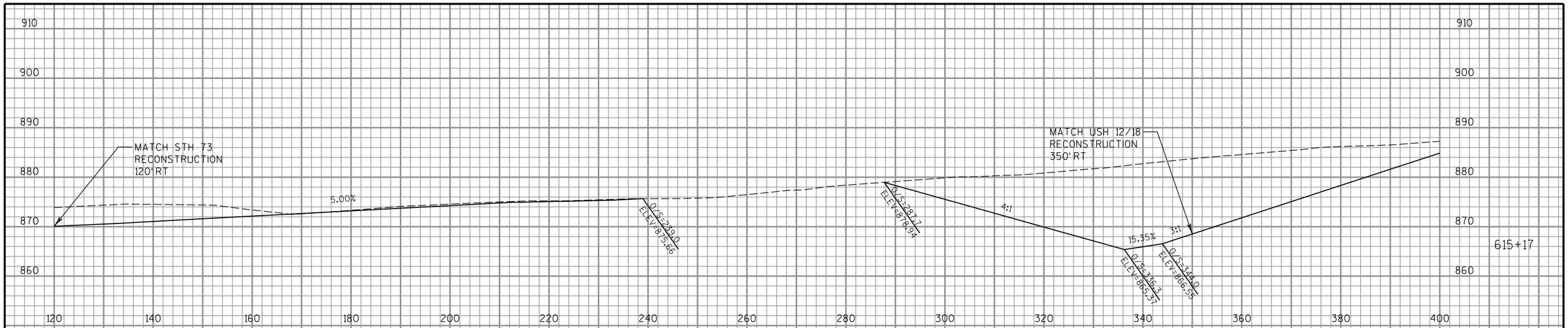
WISDOT/CADDS SHEET 21

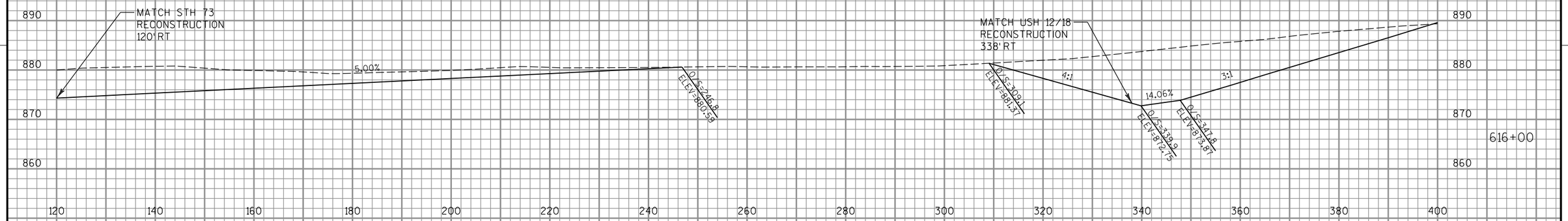


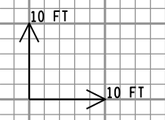
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 690	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21







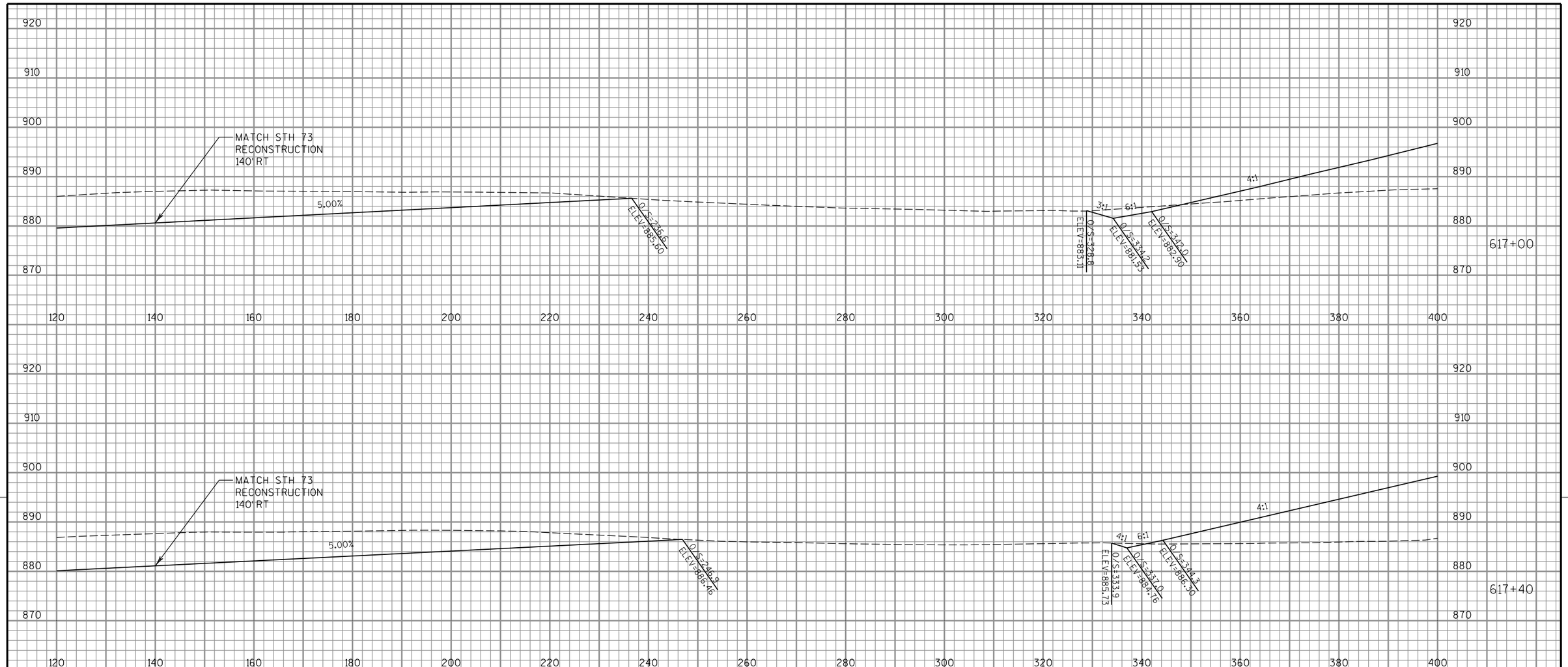
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 691	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

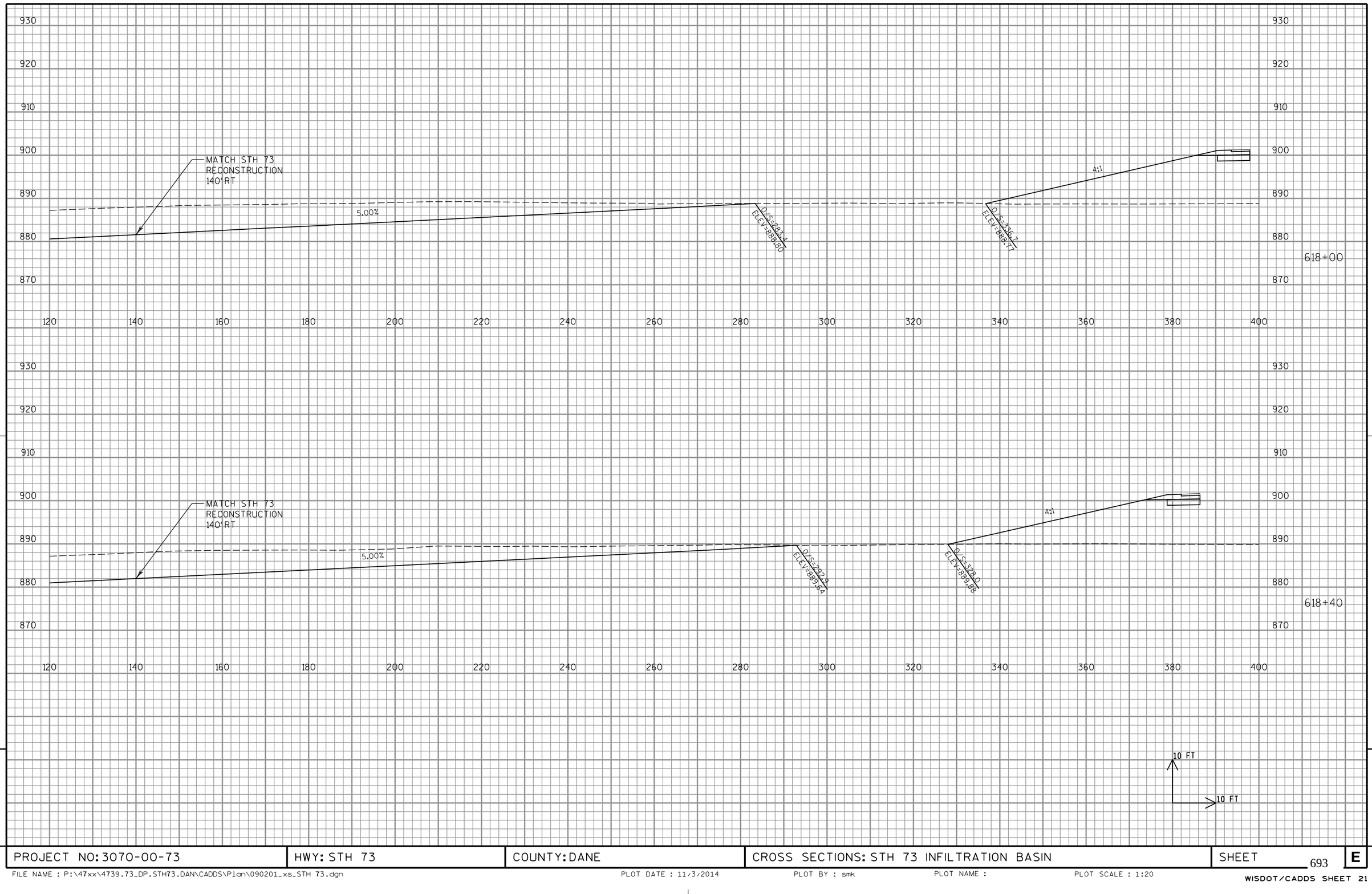
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 692	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

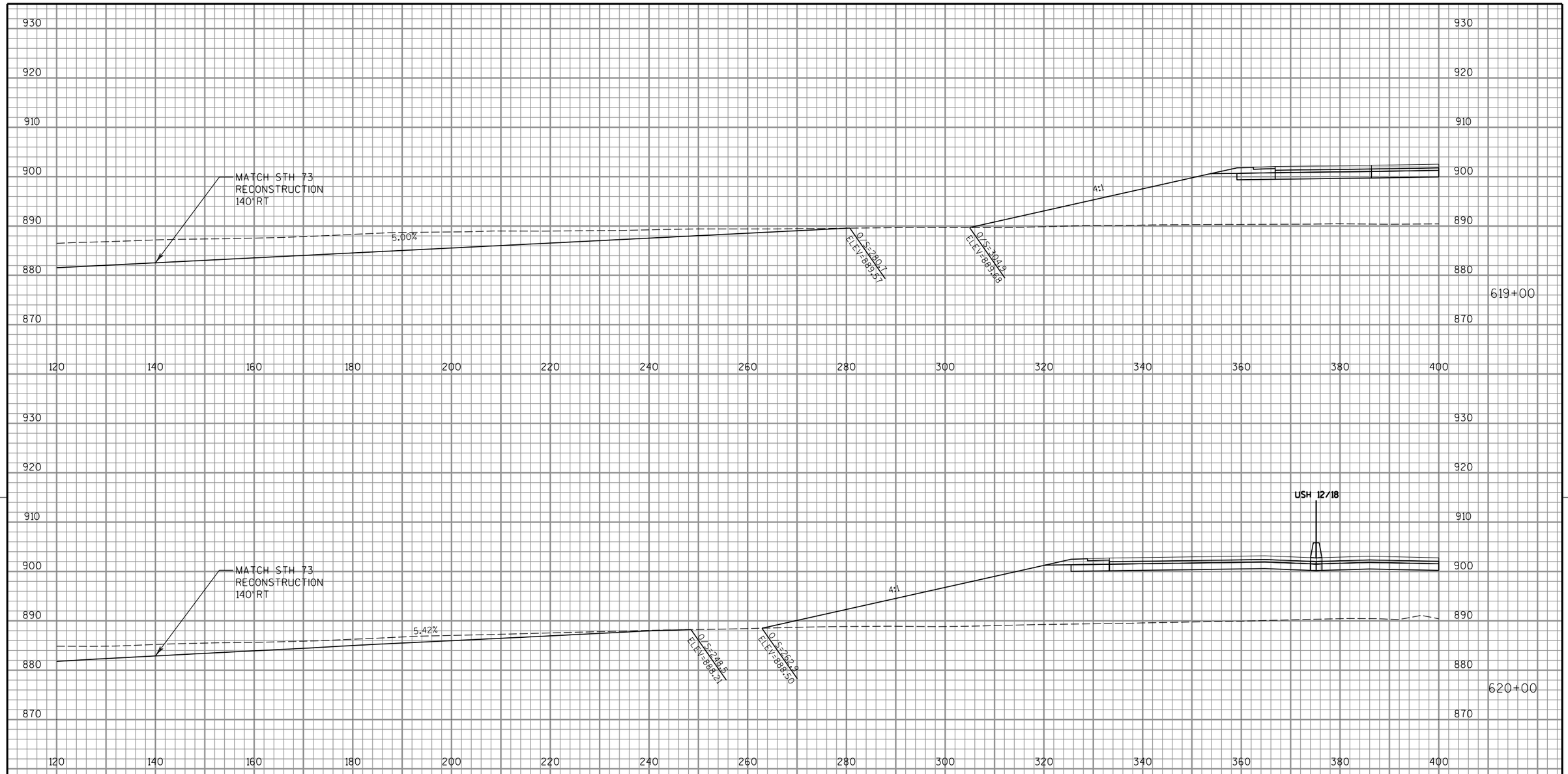
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 693	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



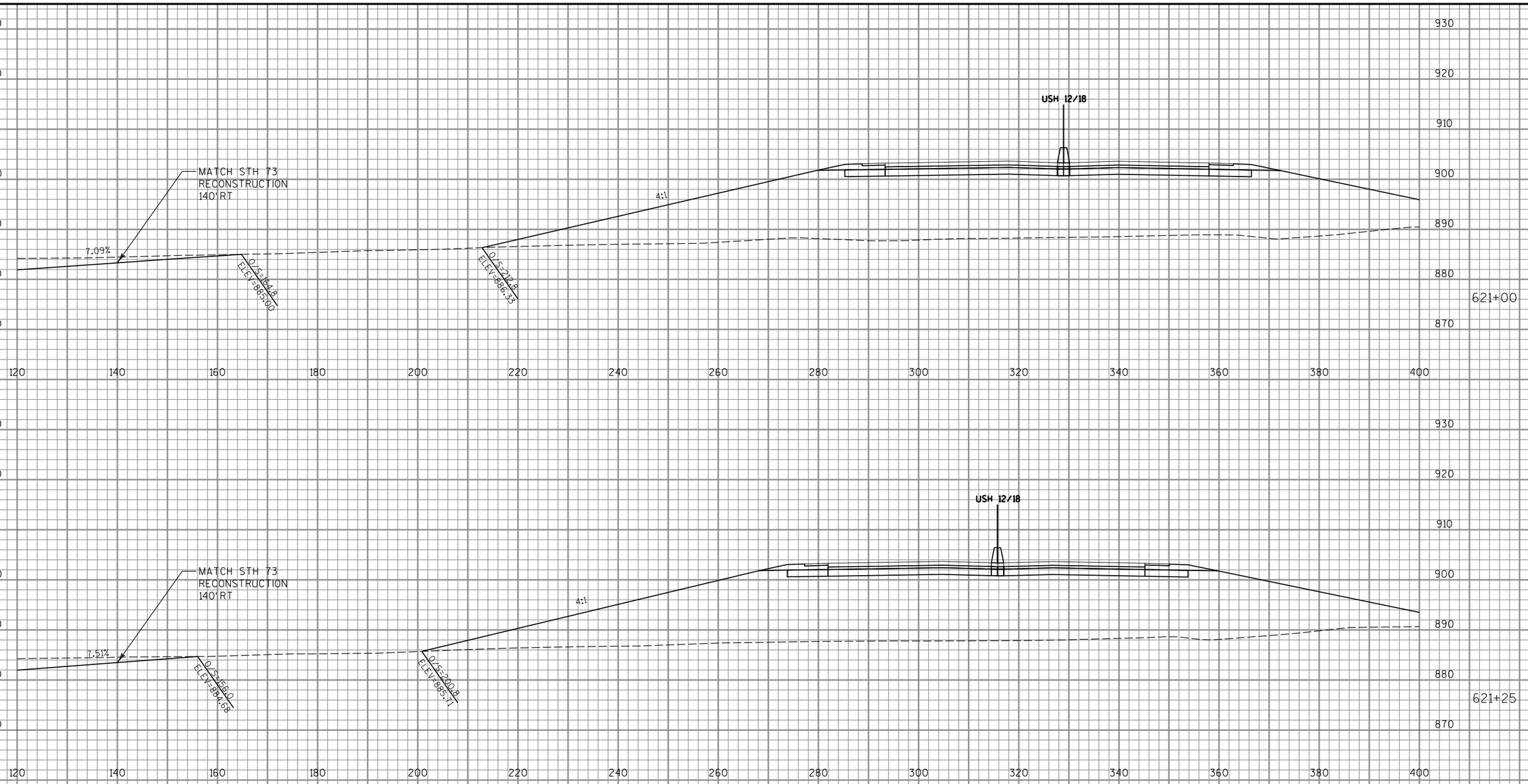
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 694	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

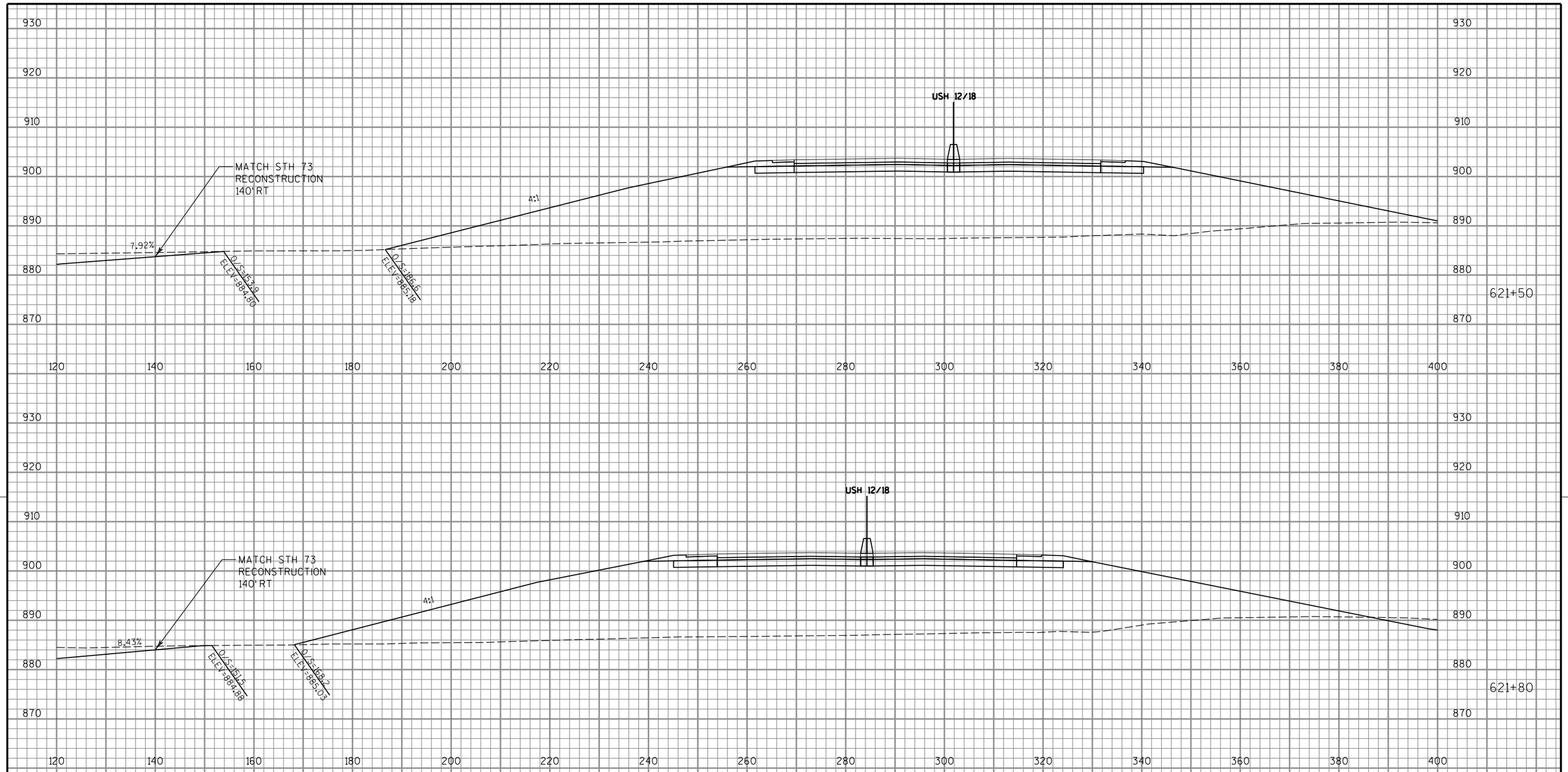
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 695	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



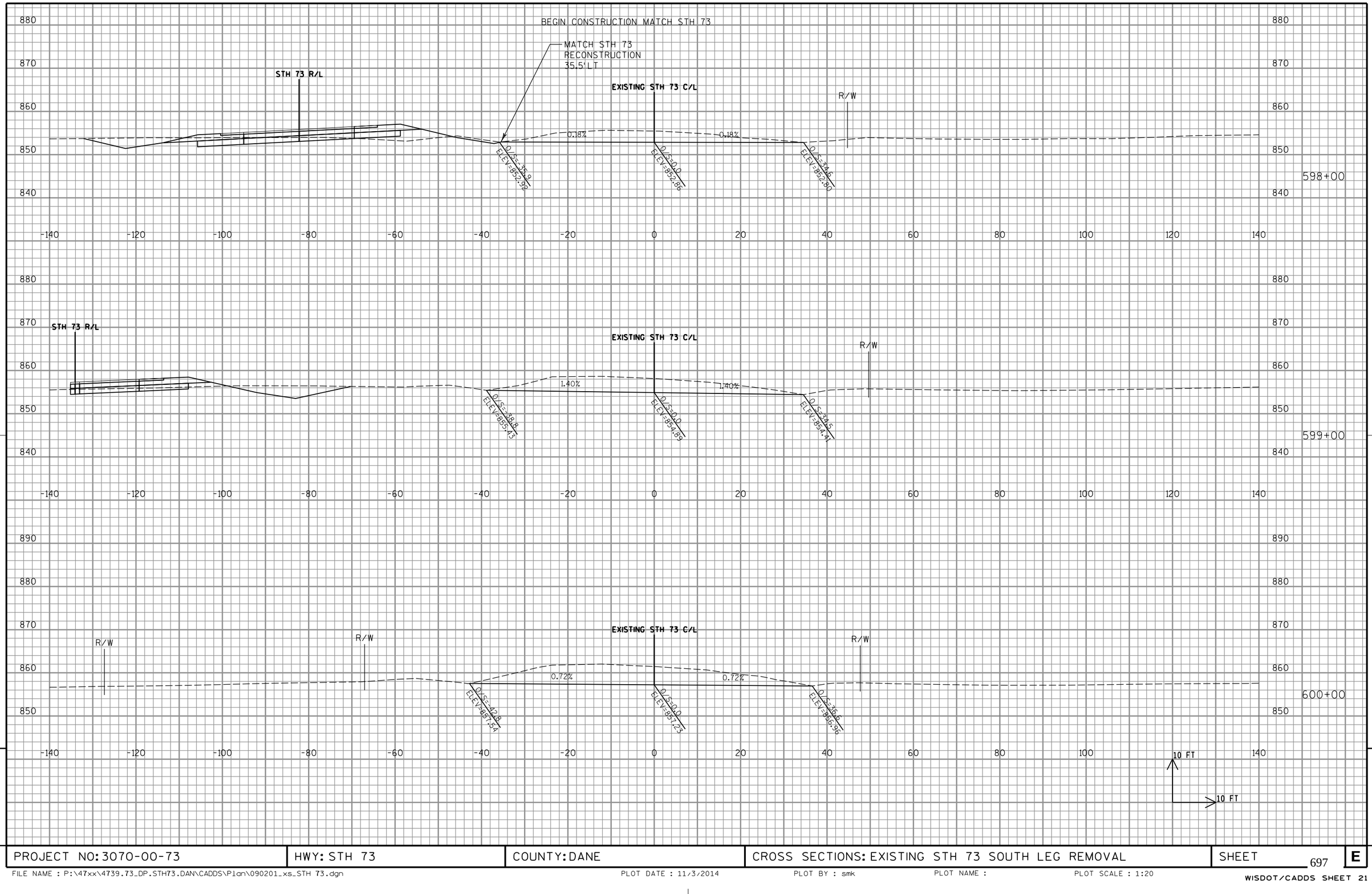
END INFILTRATION BASIN MATCH STH 73 AND USH 12/18 BOTTOM OF SLOPE

10 FT
10 FT

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: STH 73 INFILTRATION BASIN	SHEET 696	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

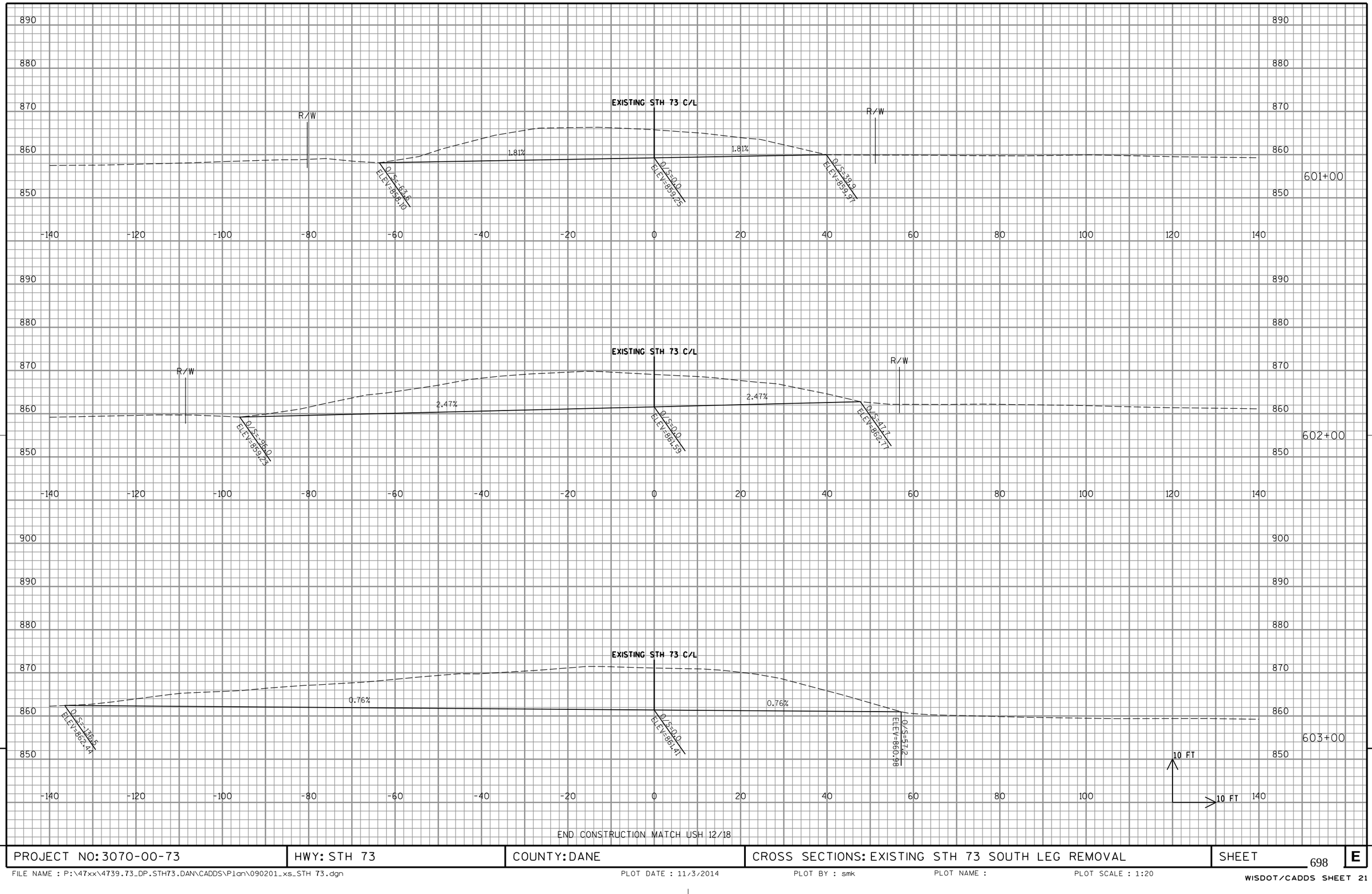
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: EXISTING STH 73 SOUTH LEG REMOVAL	SHEET 697	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

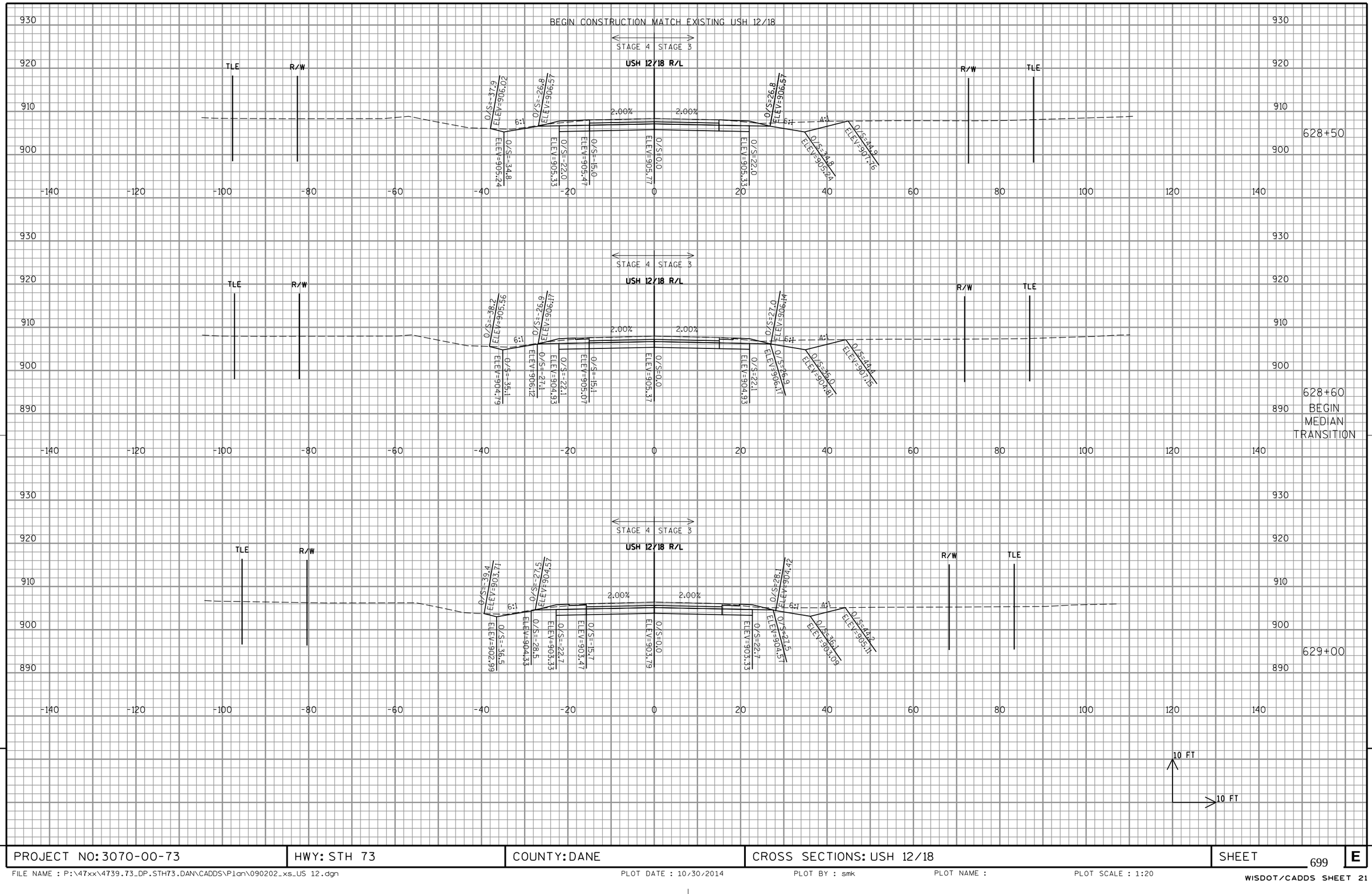


END CONSTRUCTION MATCH USH 12/18

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: EXISTING STH 73 SOUTH LEG REMOVAL	SHEET 698	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090201_xs_STH 73.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

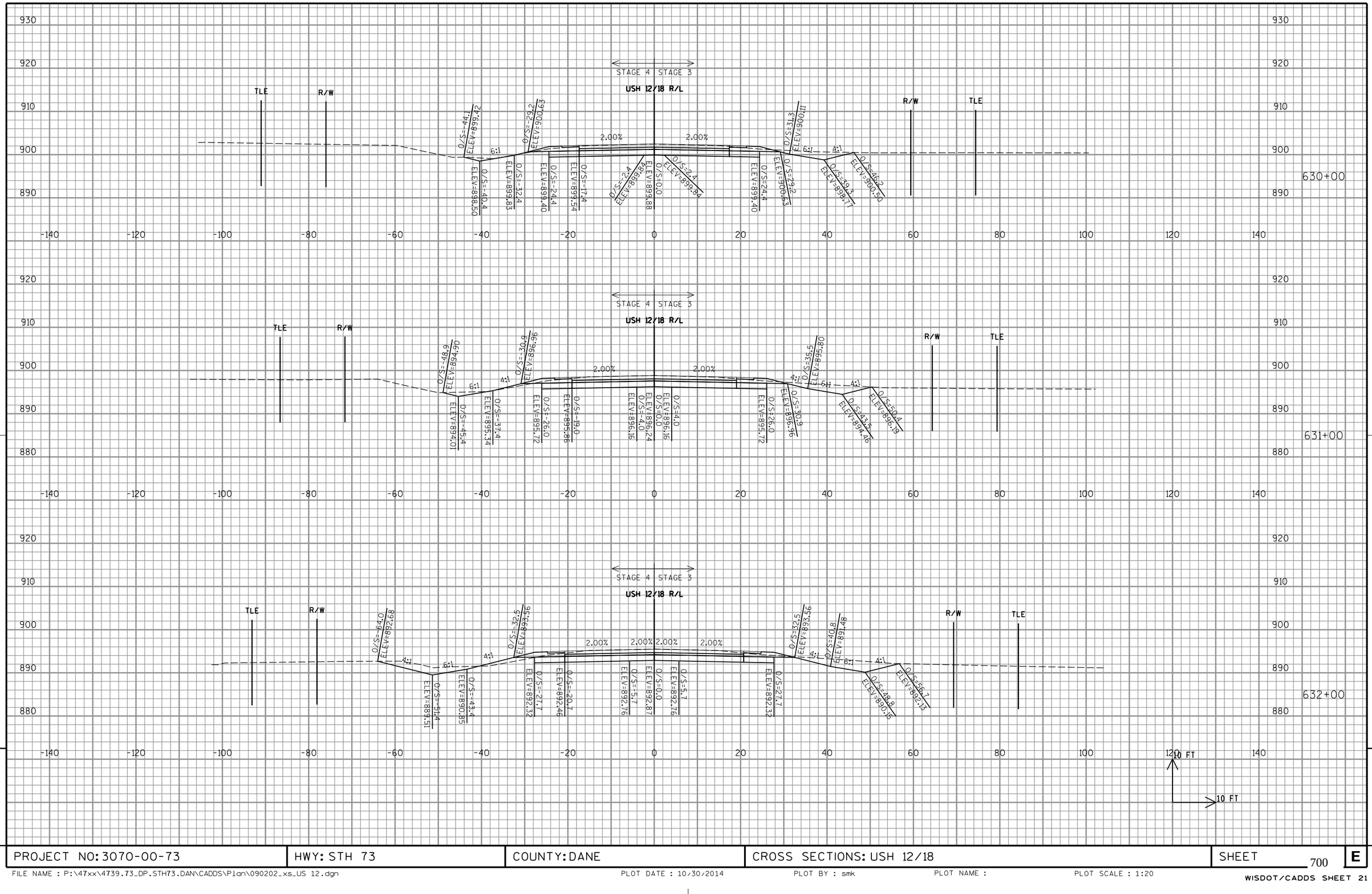
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 699	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

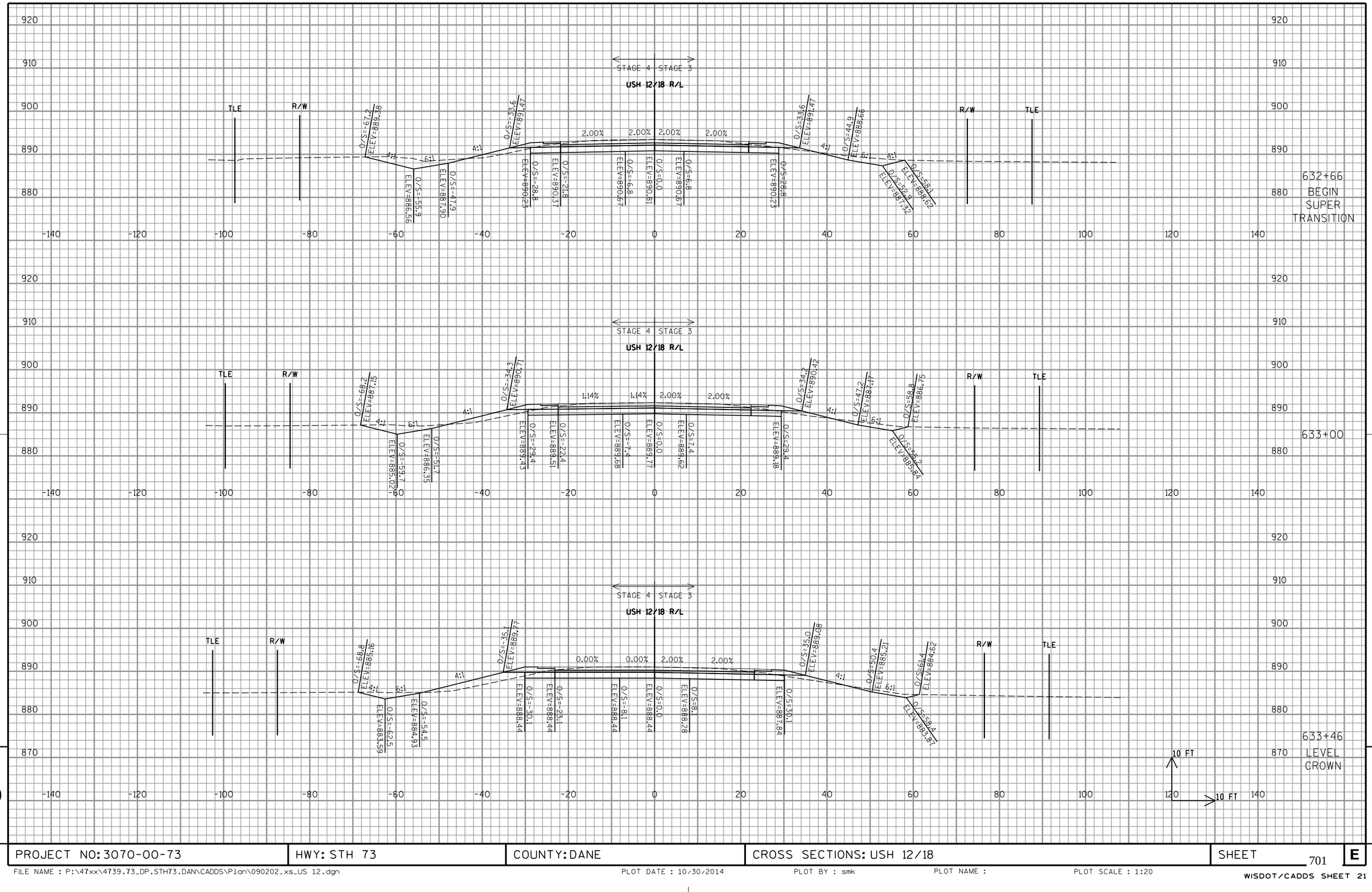
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 700	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

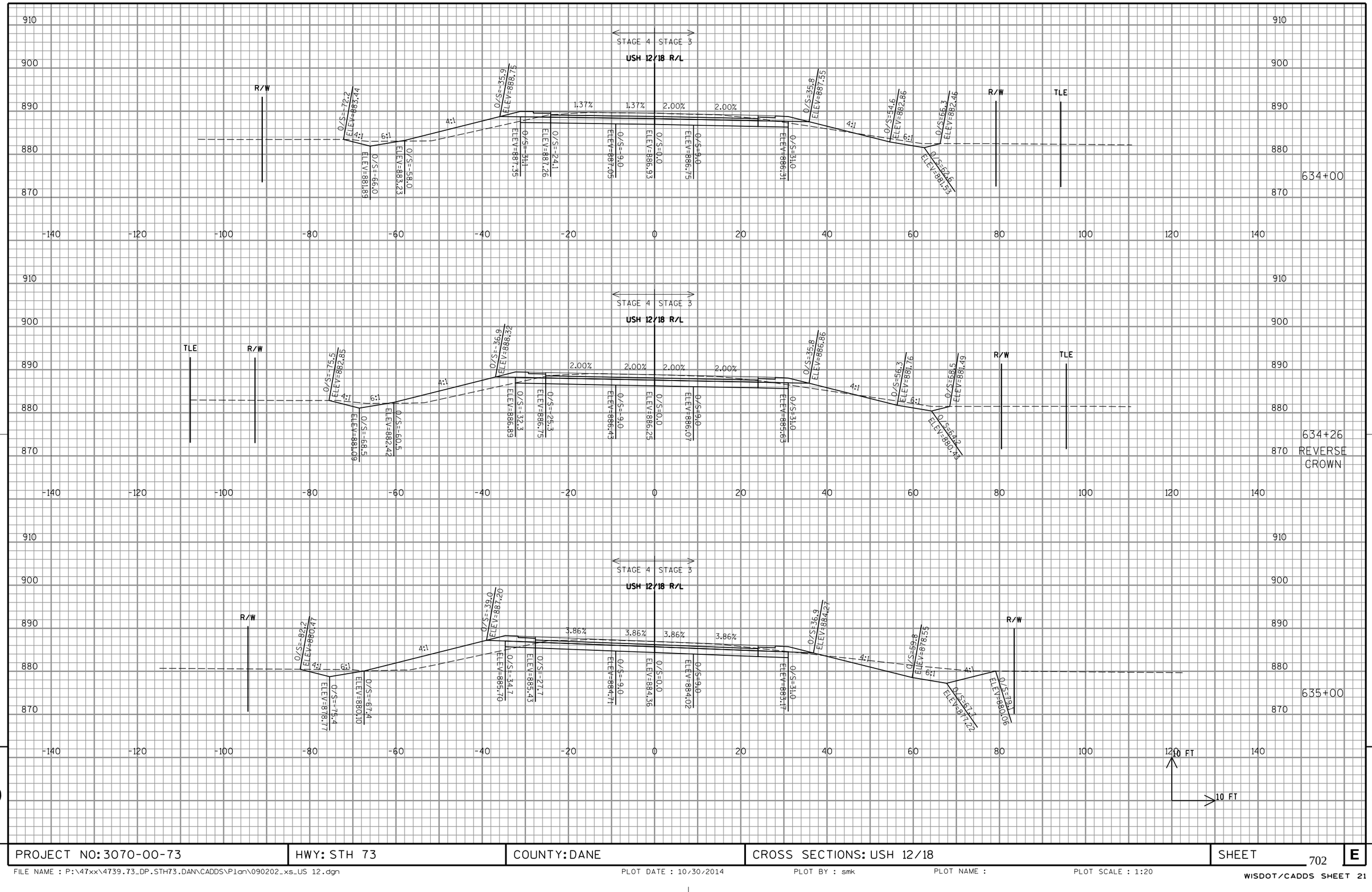
WISDOT/CADDS SHEET 21



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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 701	E



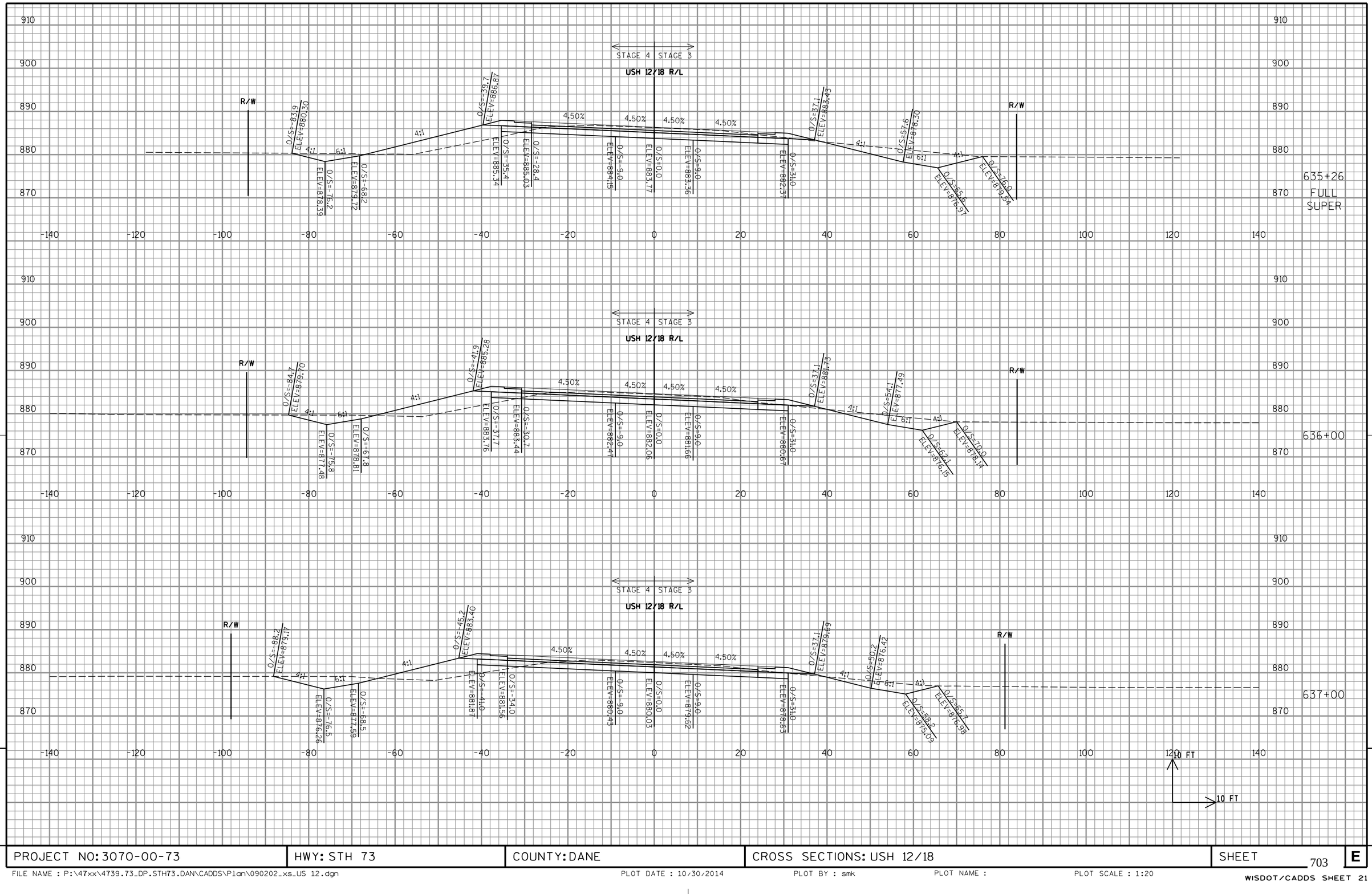
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 702	E

9

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

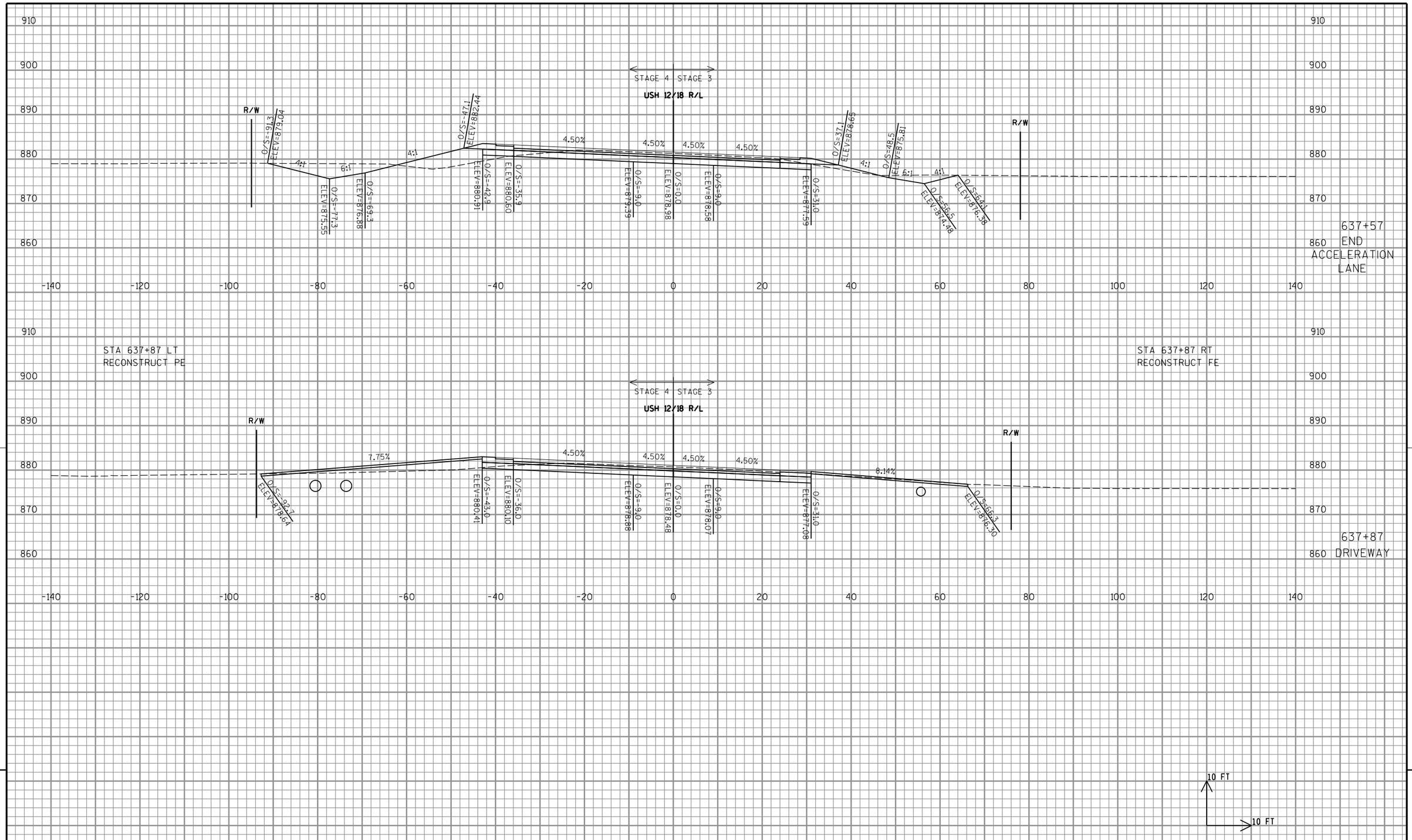
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 703	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

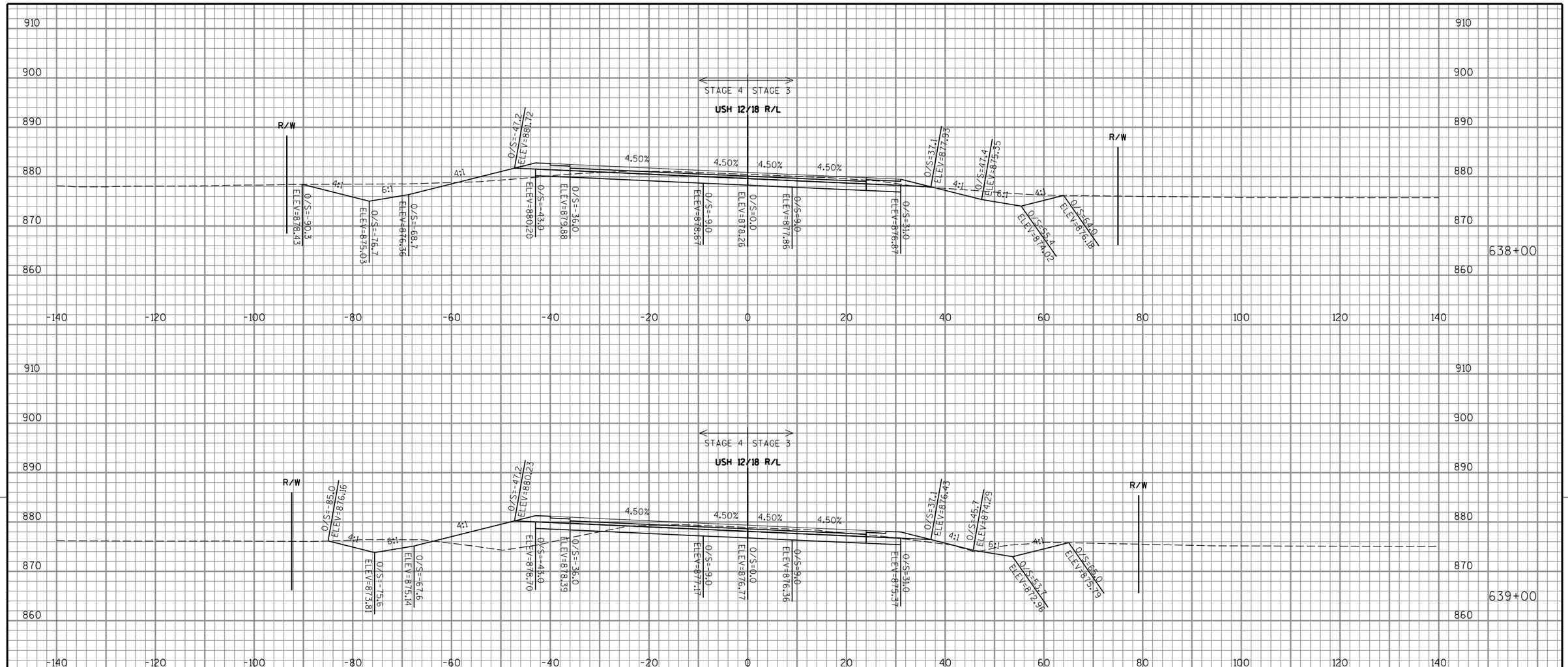
WISDOT/CADDS SHEET 21



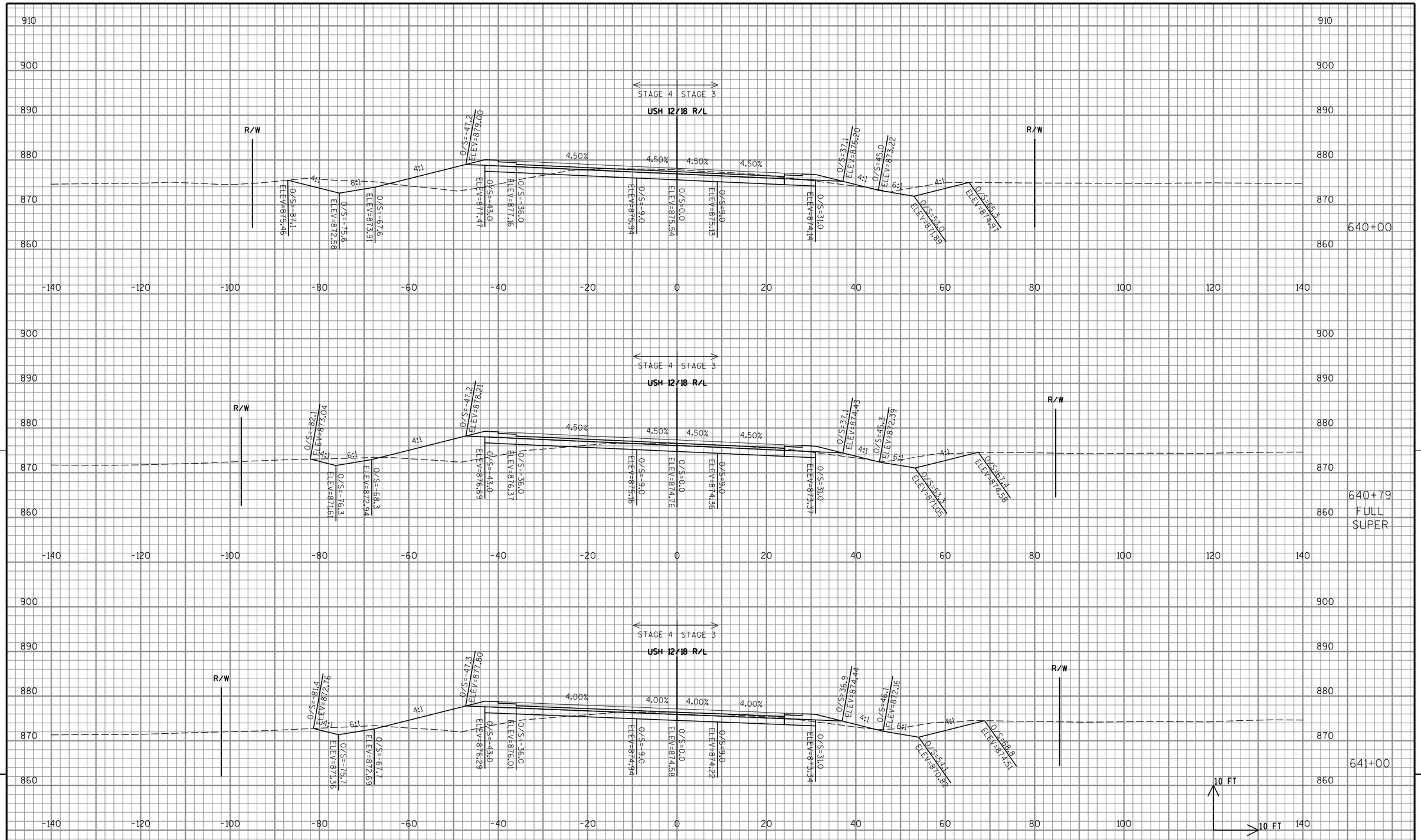
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 704	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 705	E



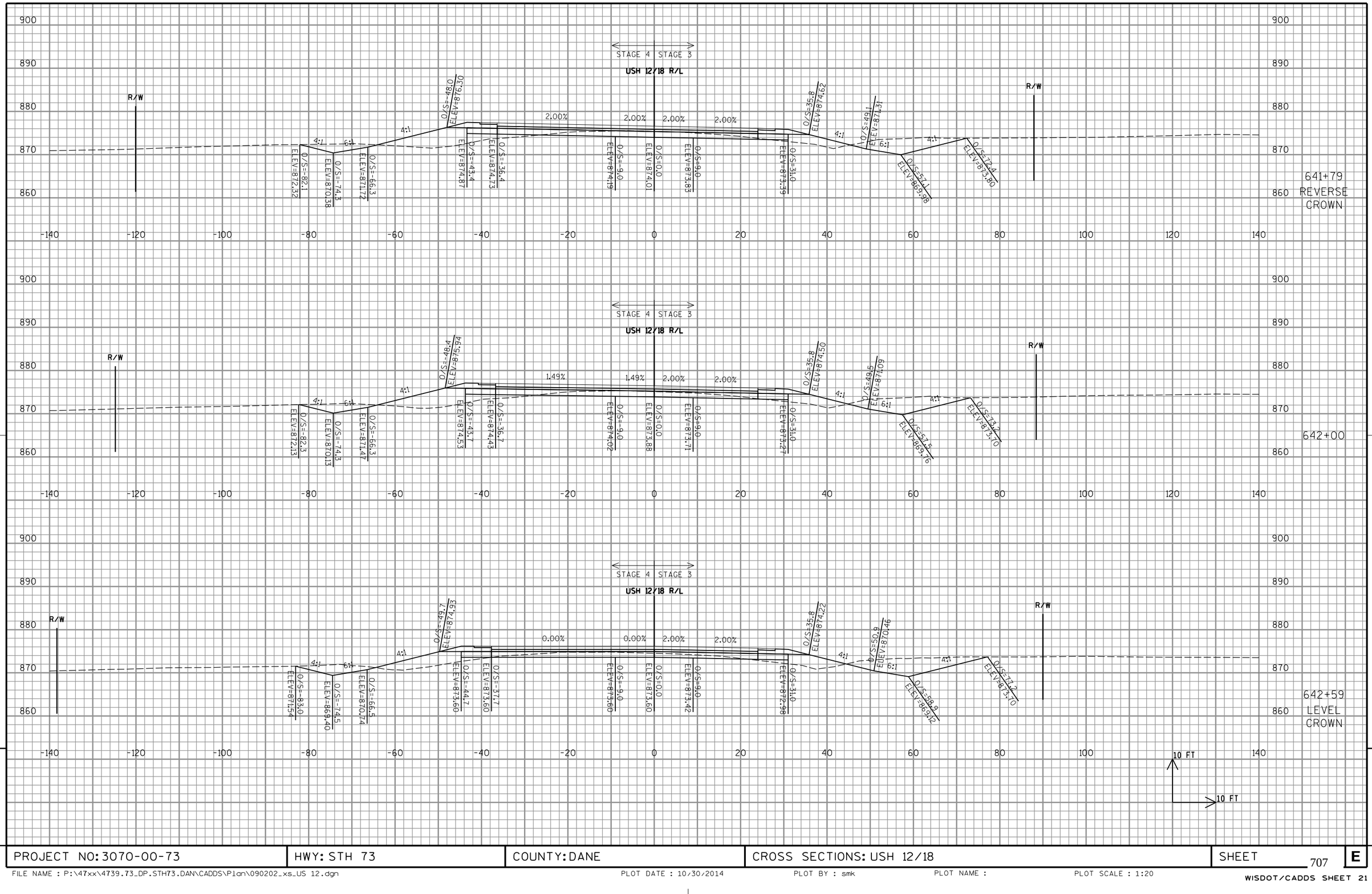
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 706	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

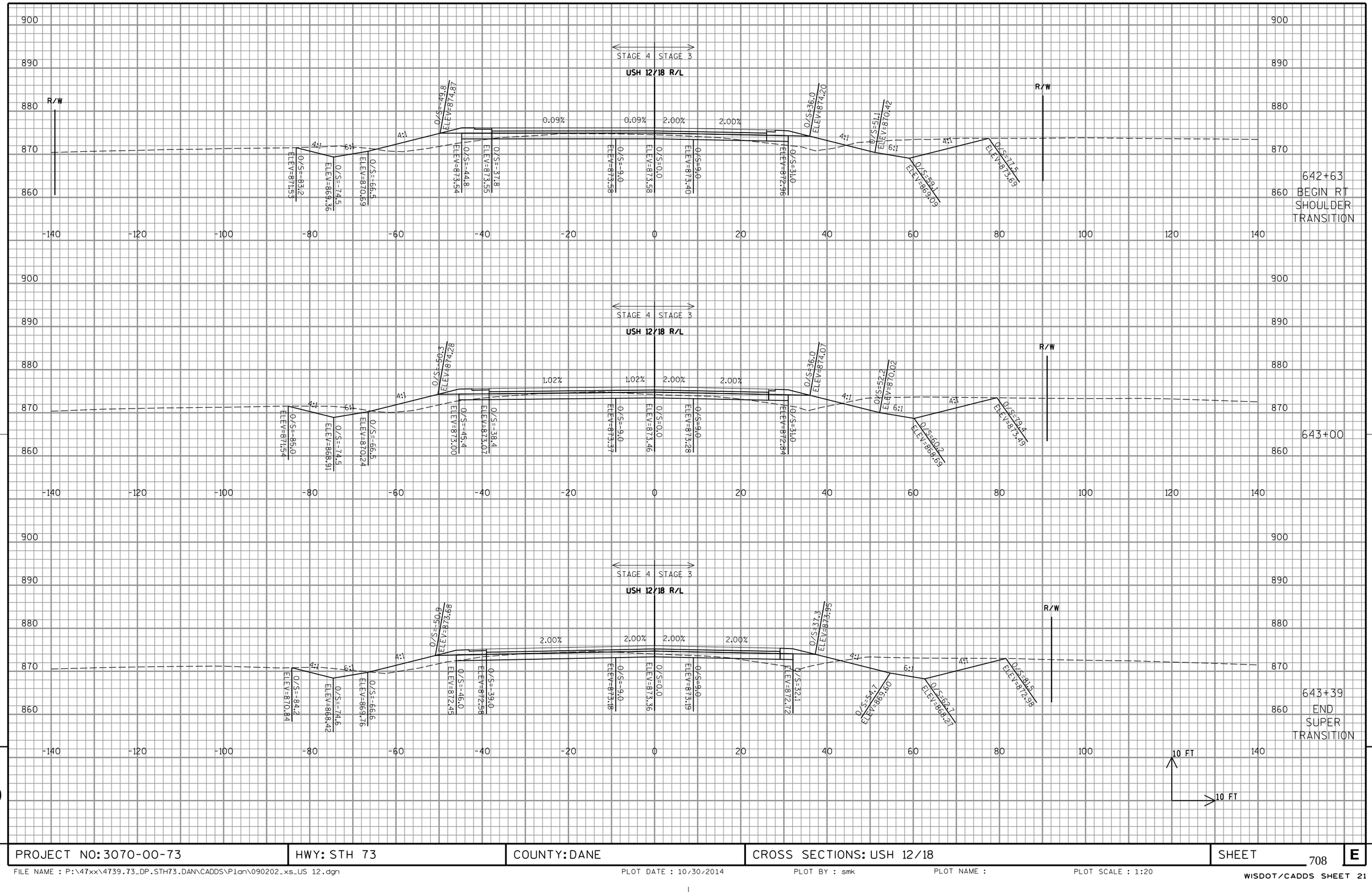
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 707	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

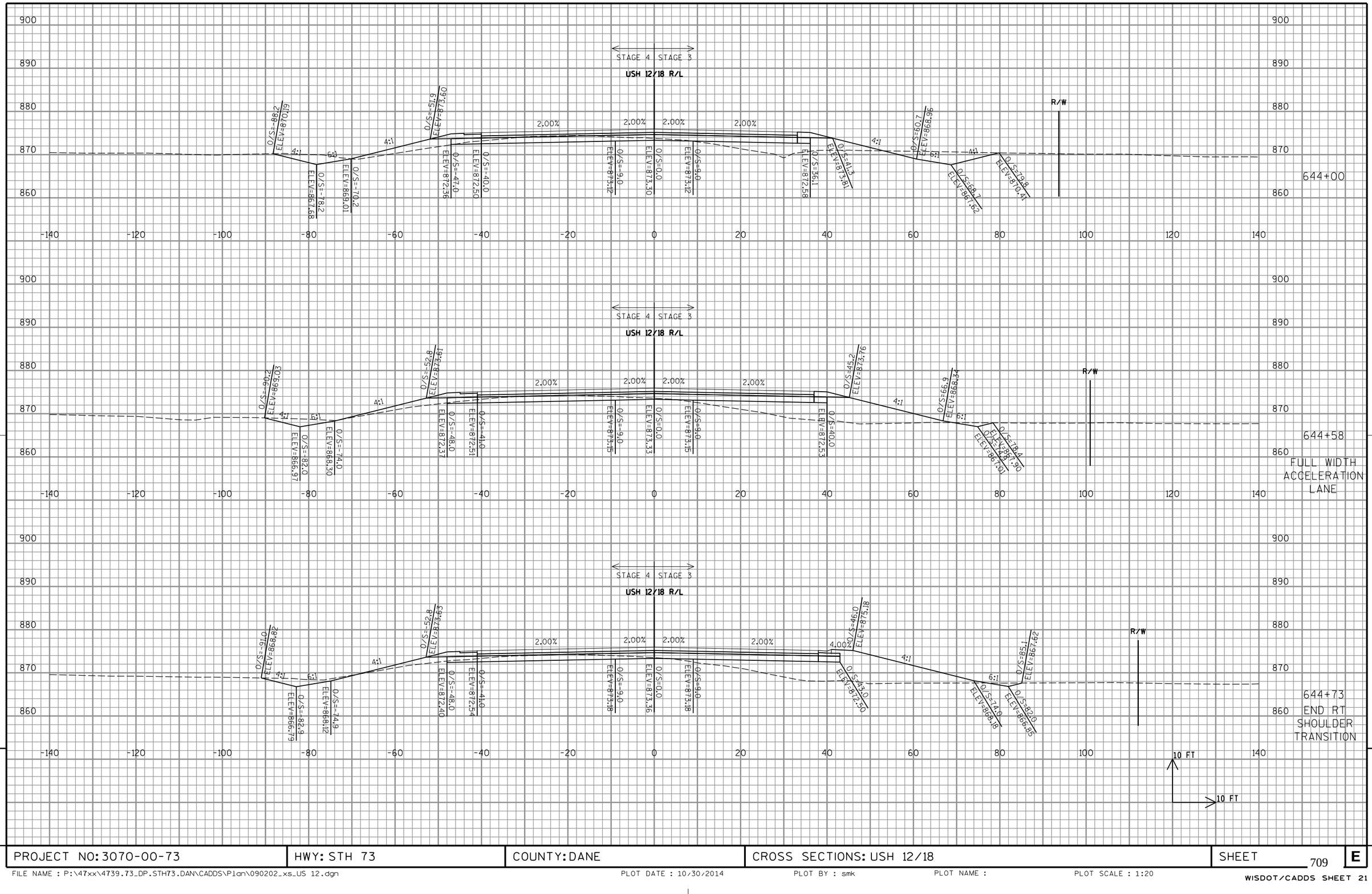
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 708	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

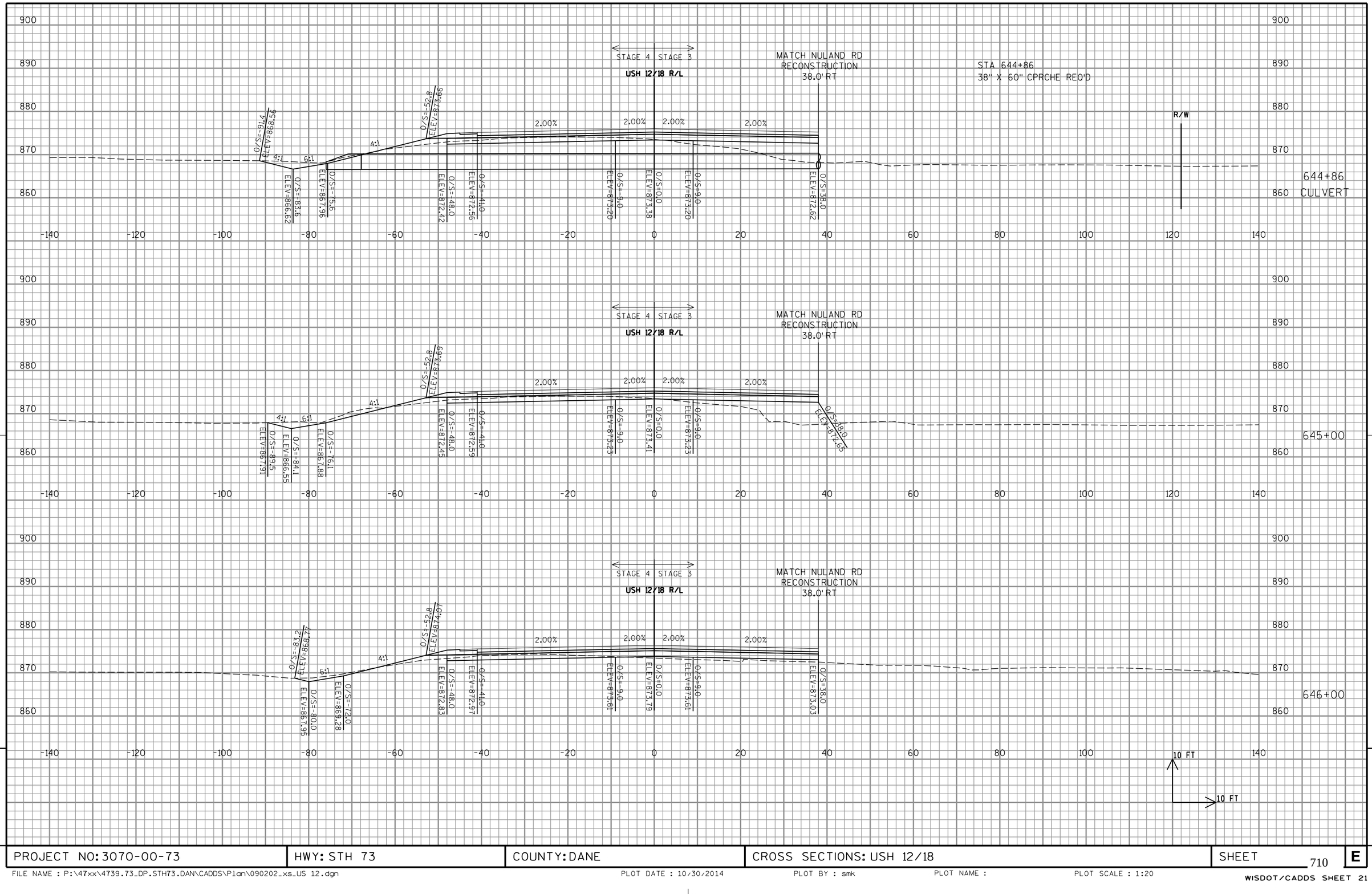
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 709	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

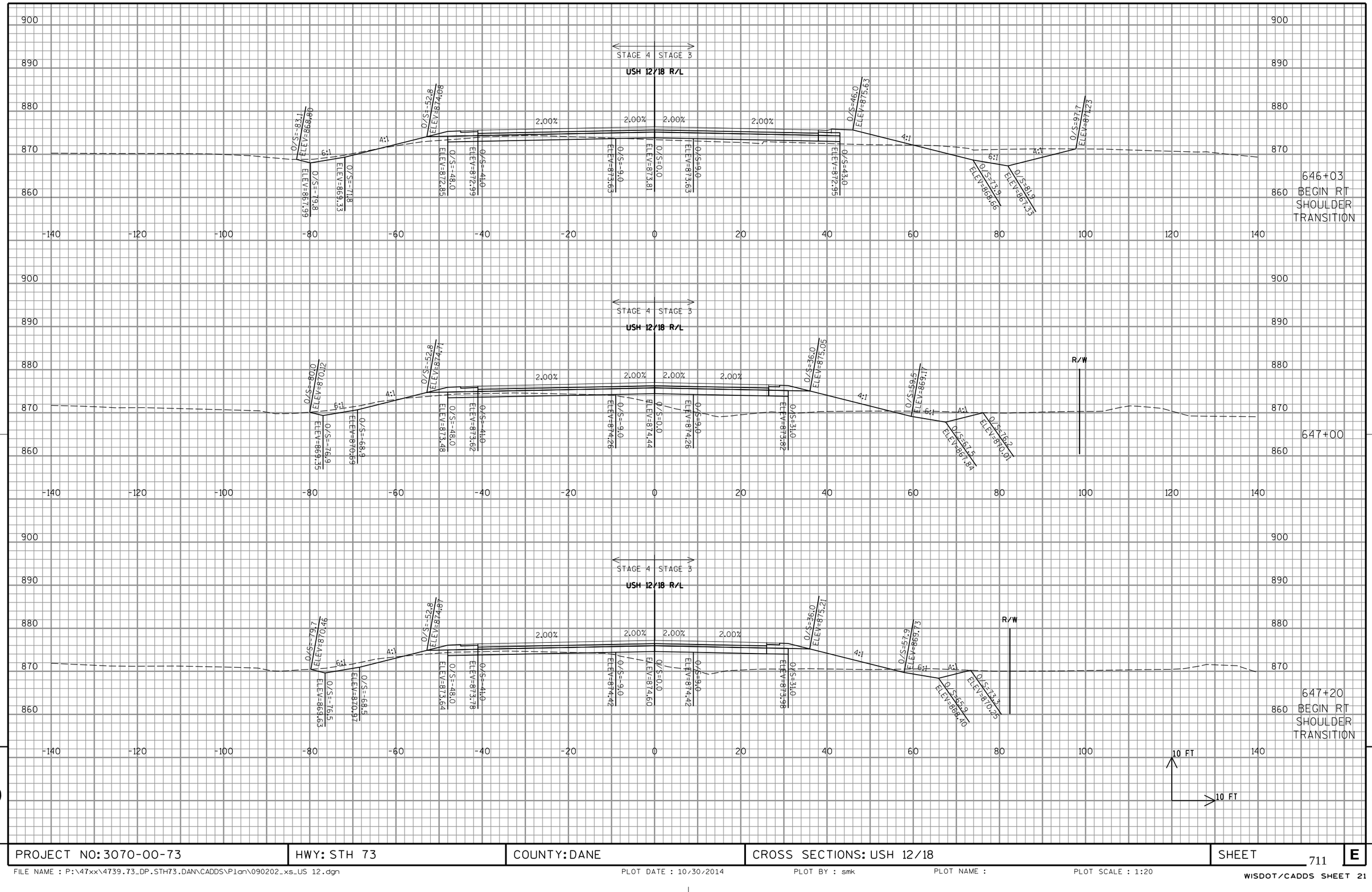
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 710	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

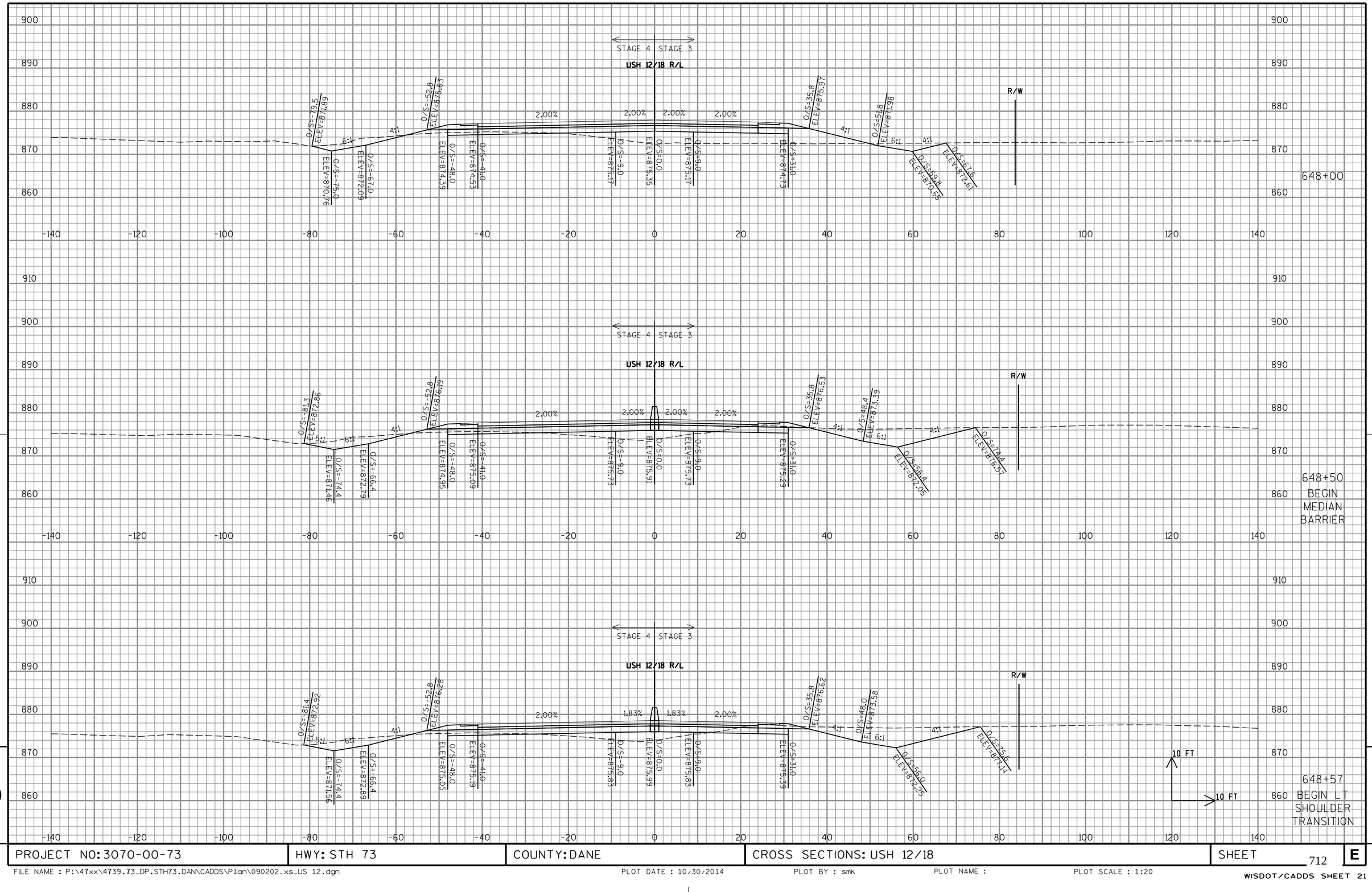
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 711	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

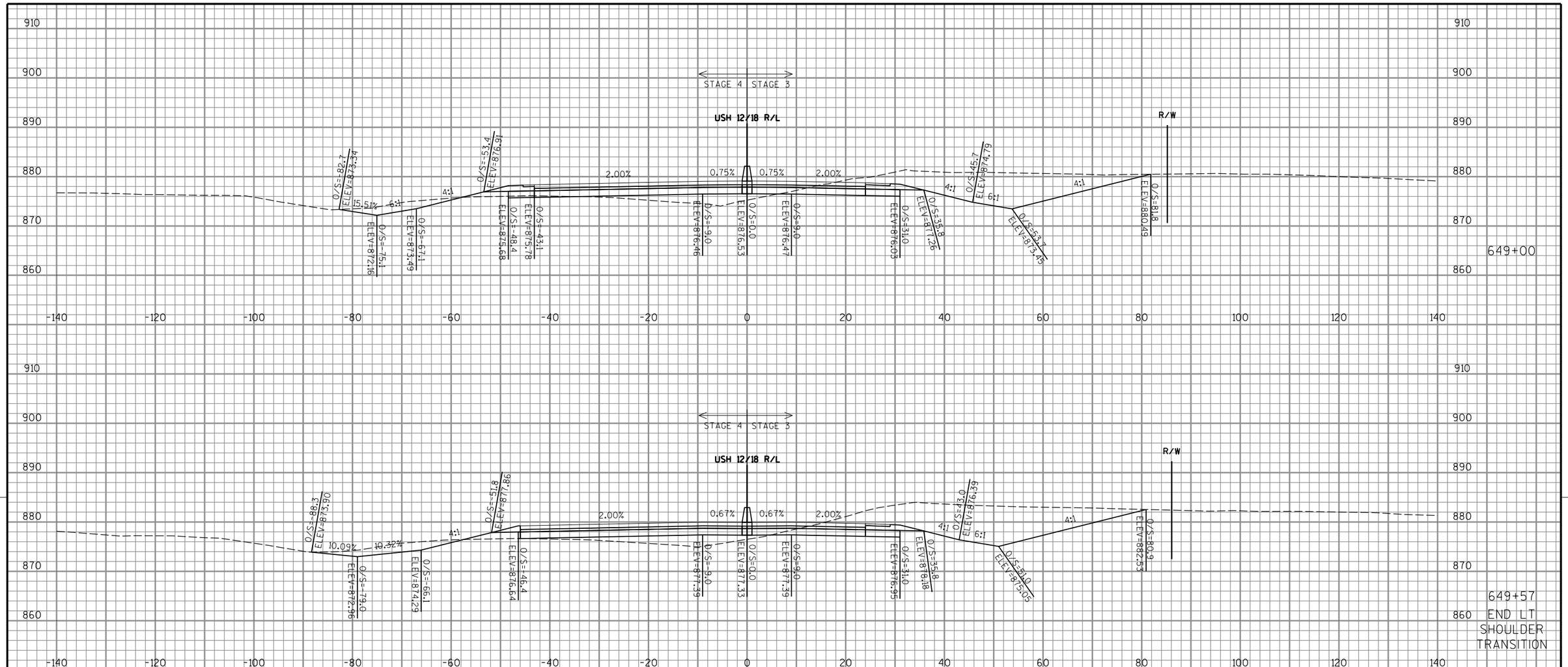
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 712	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



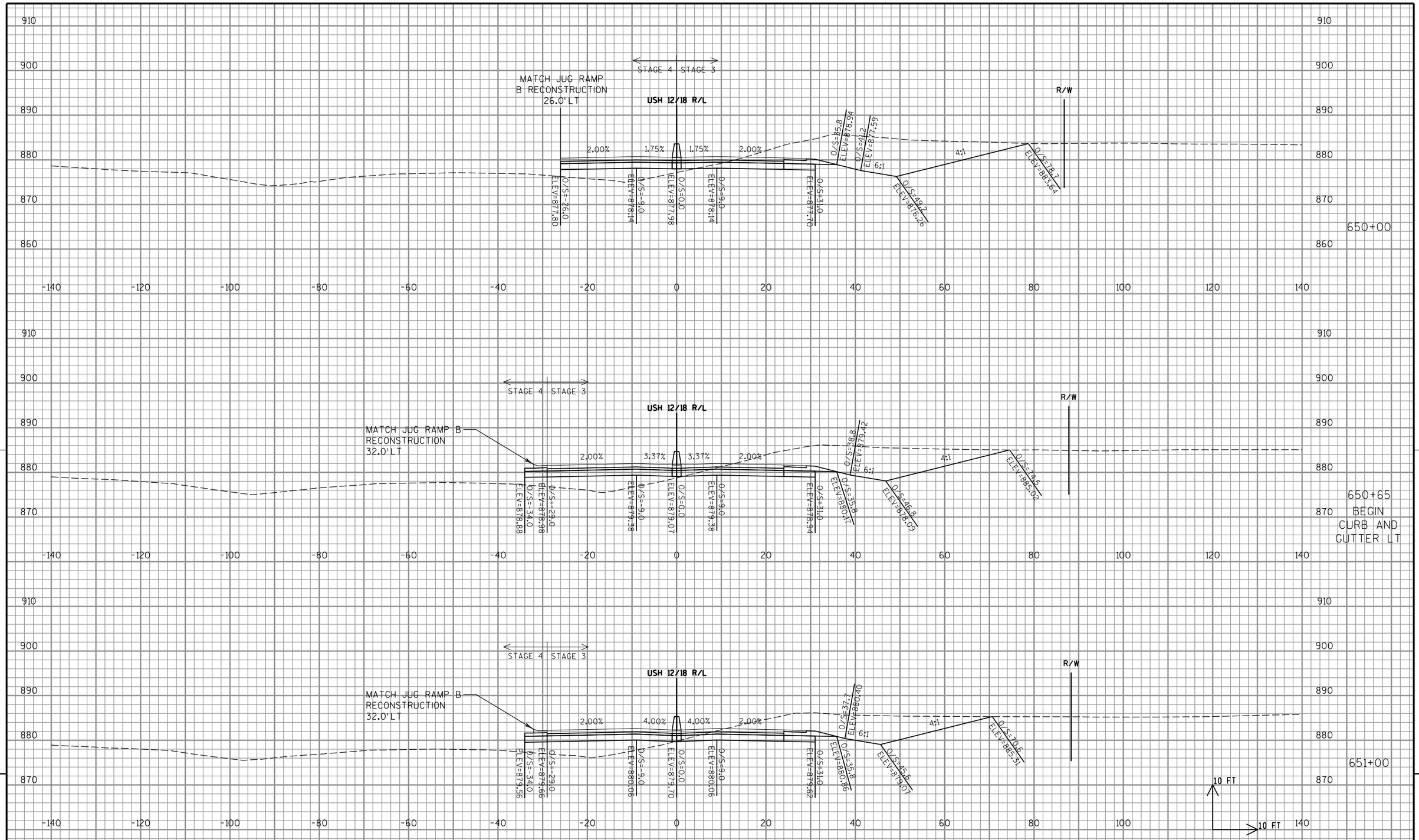
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 713	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

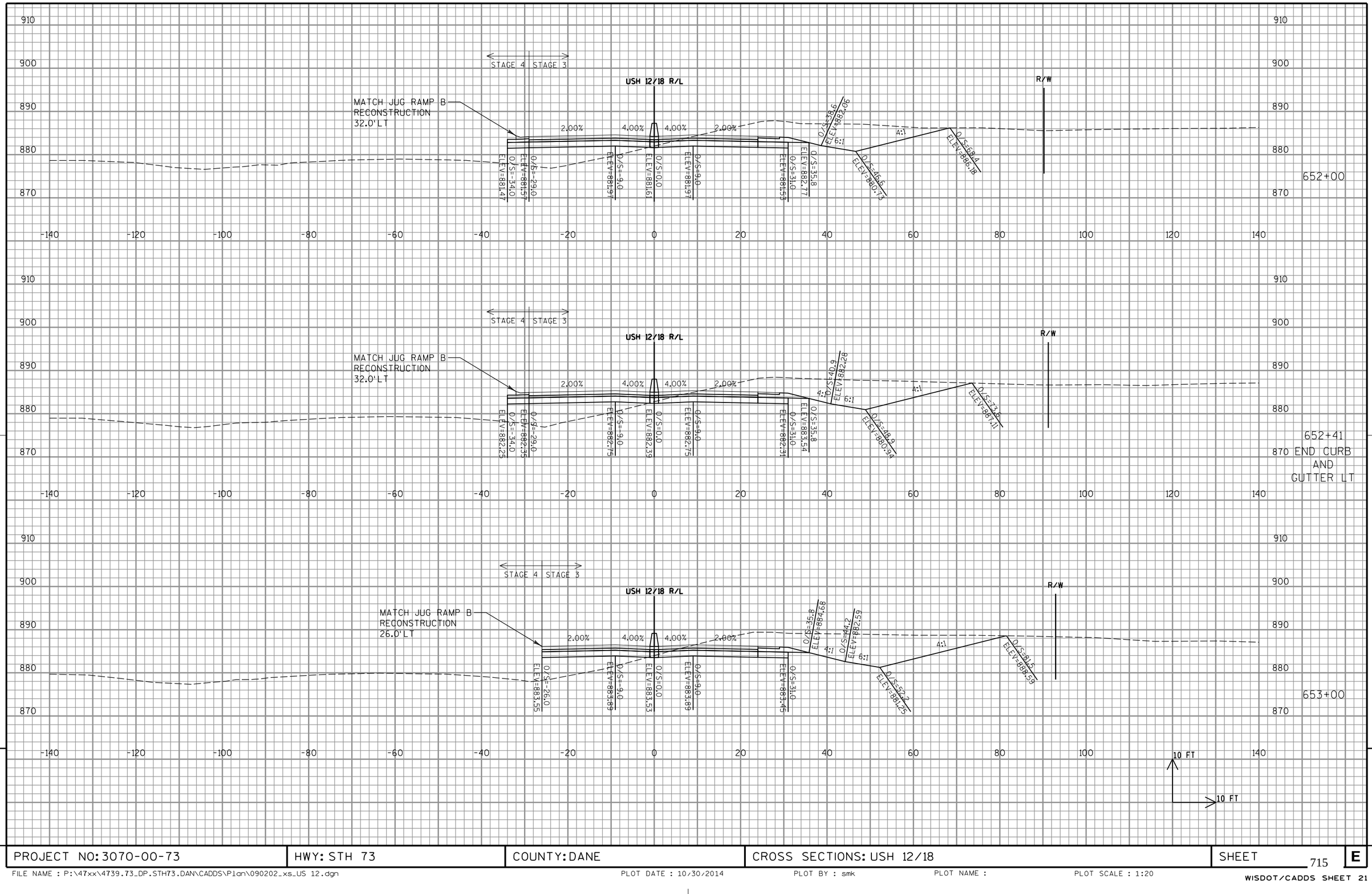
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 714	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

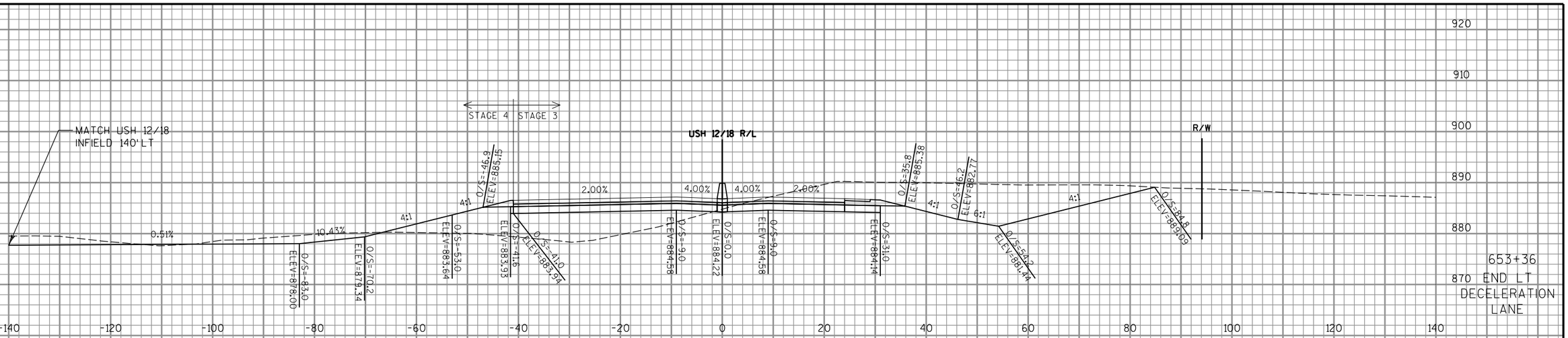
WISDOT/CADDS SHEET 21

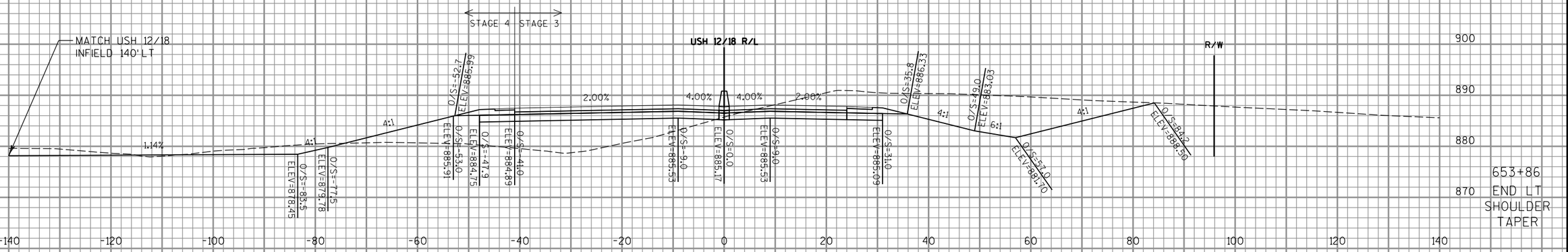


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 715	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





10 FT
10 FT

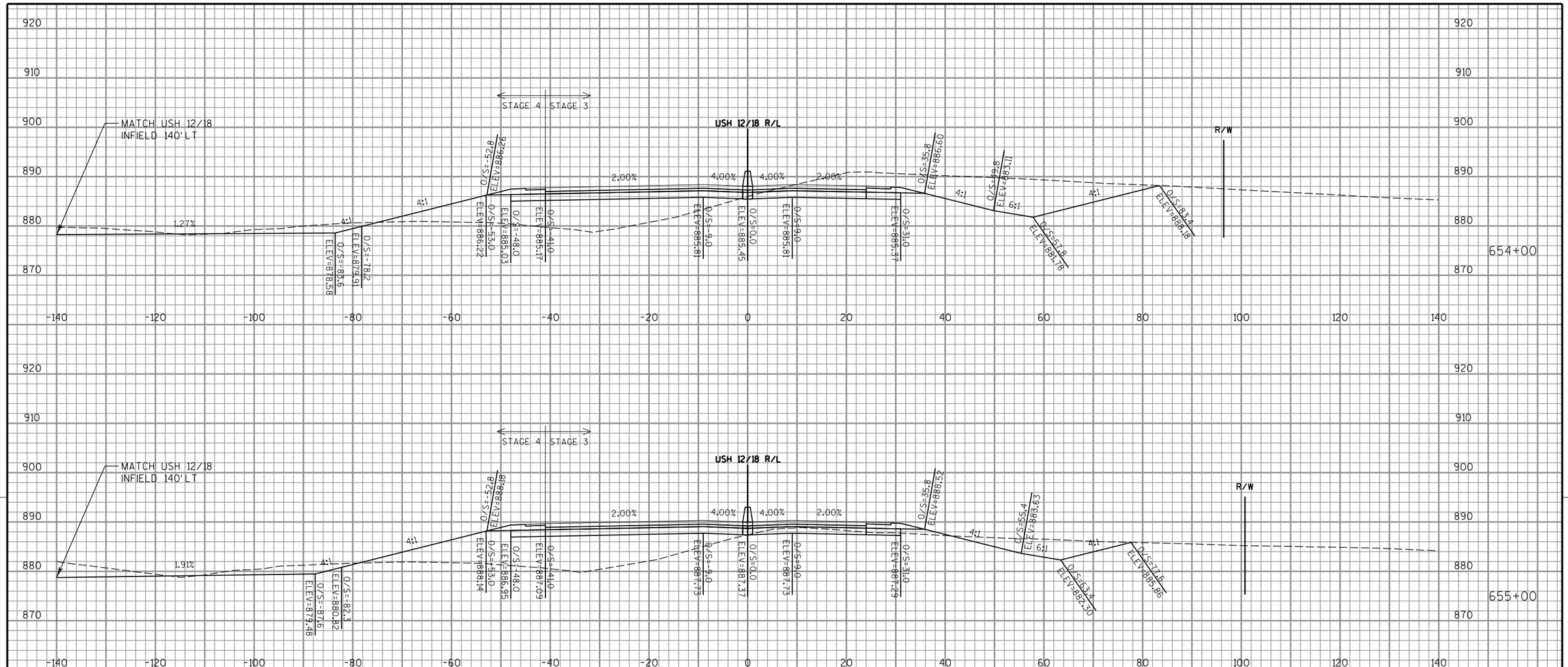
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 716	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

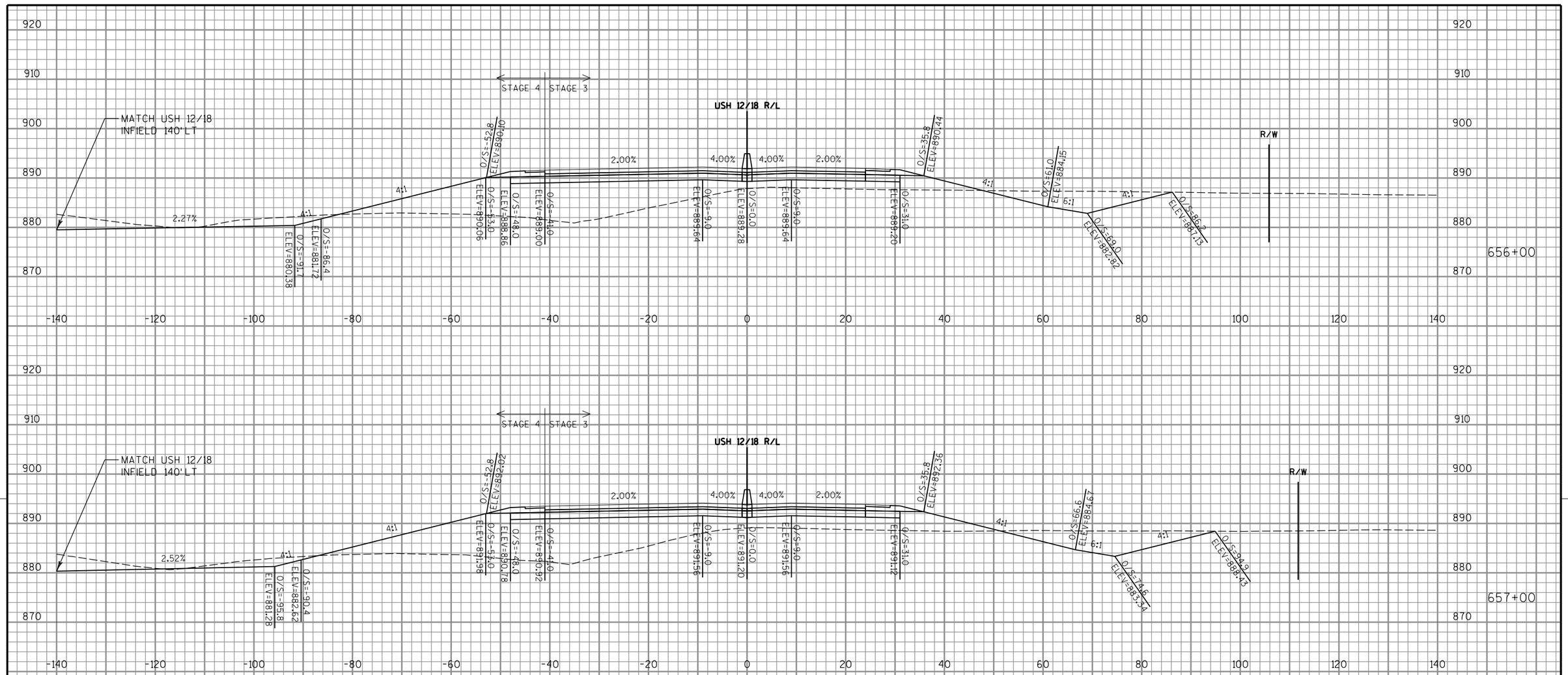


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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 717	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20



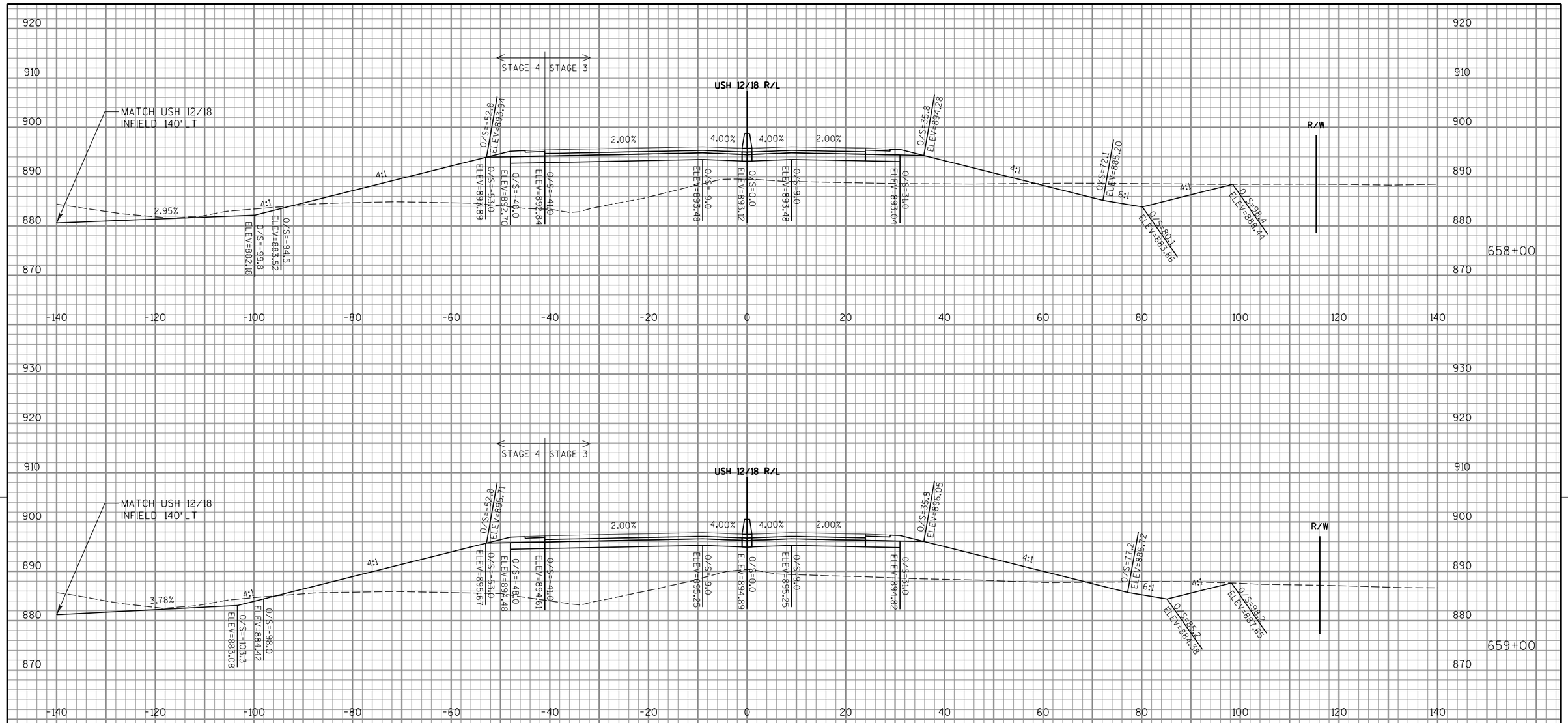
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 718	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

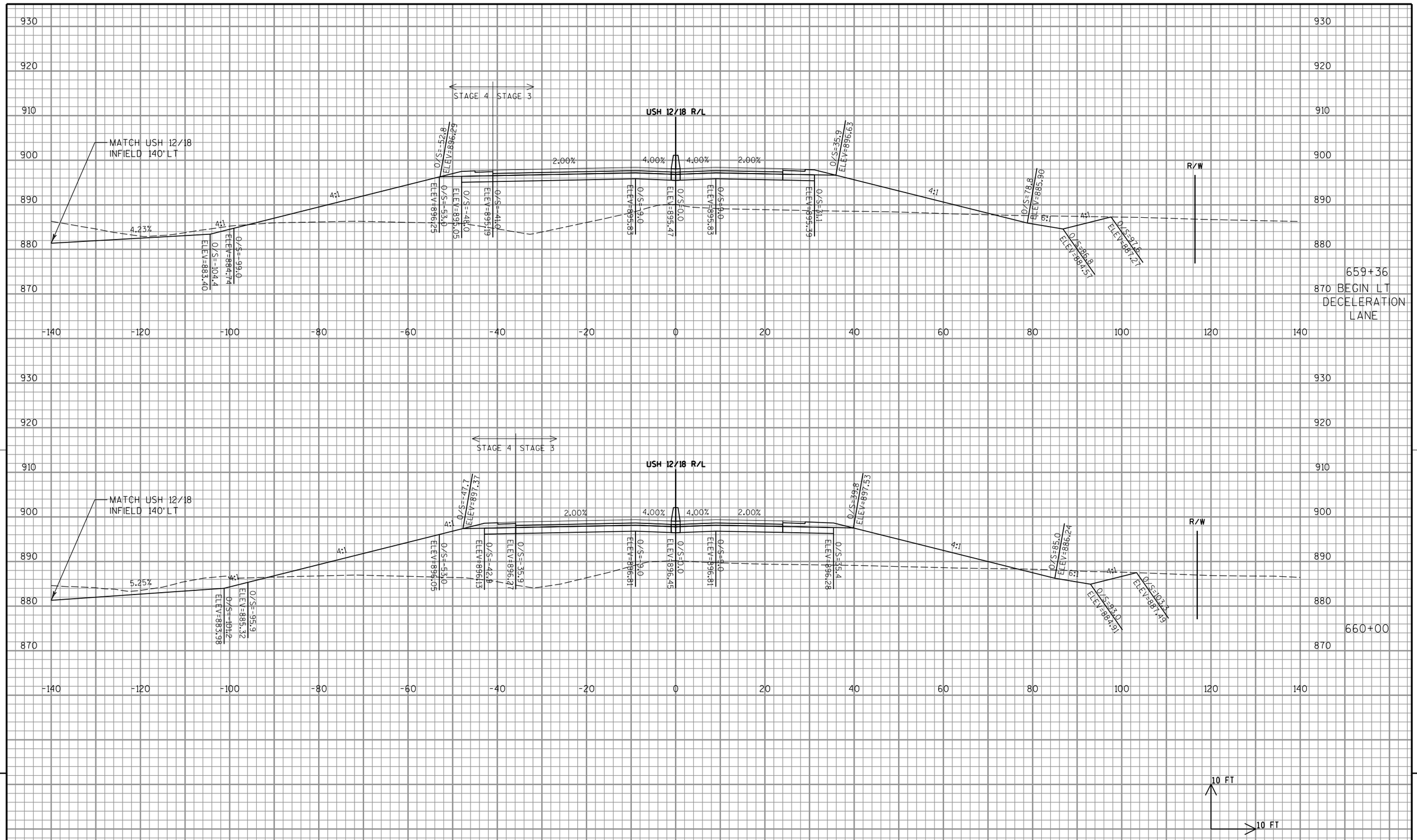
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 719	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

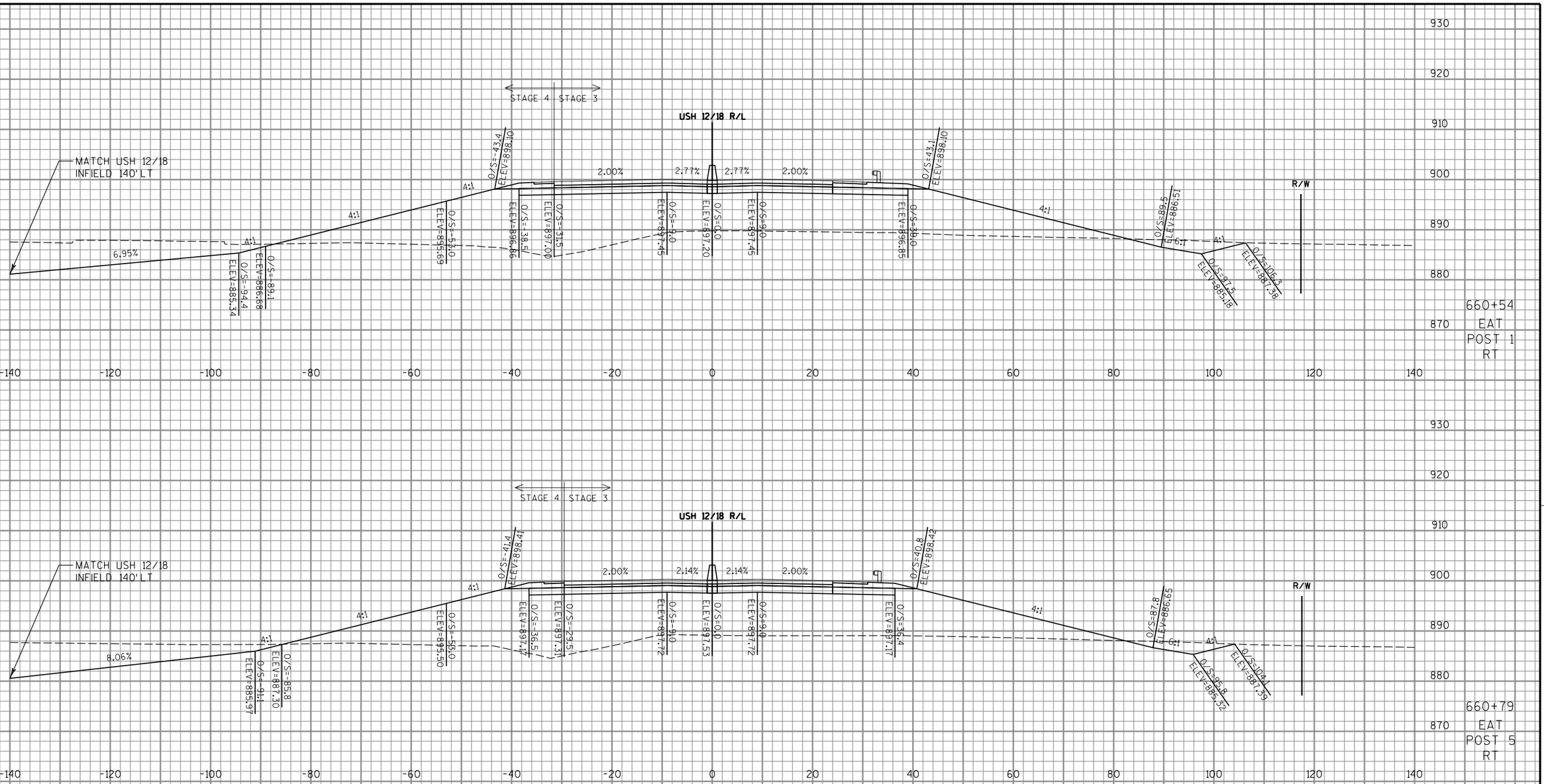
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 720	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

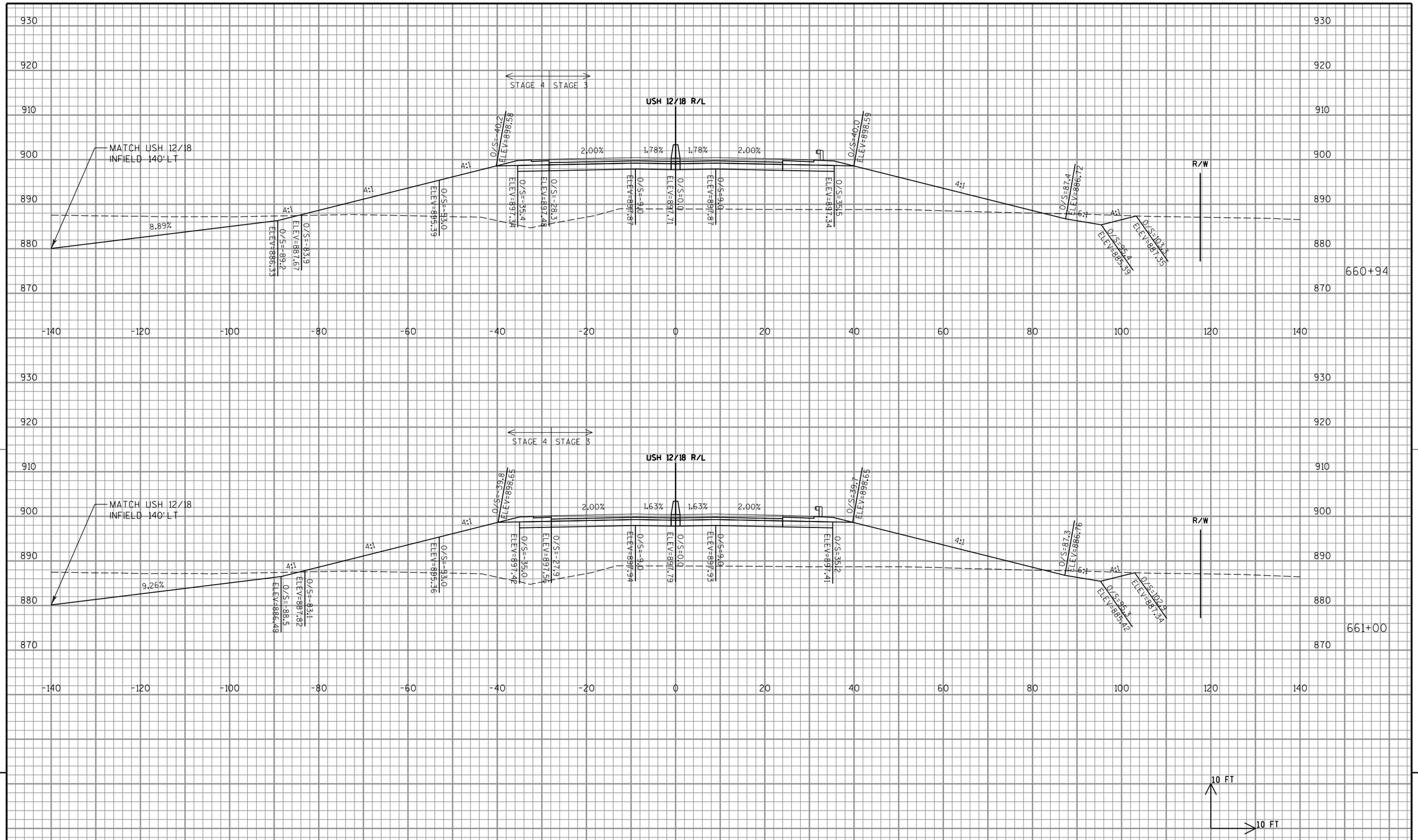
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 721	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

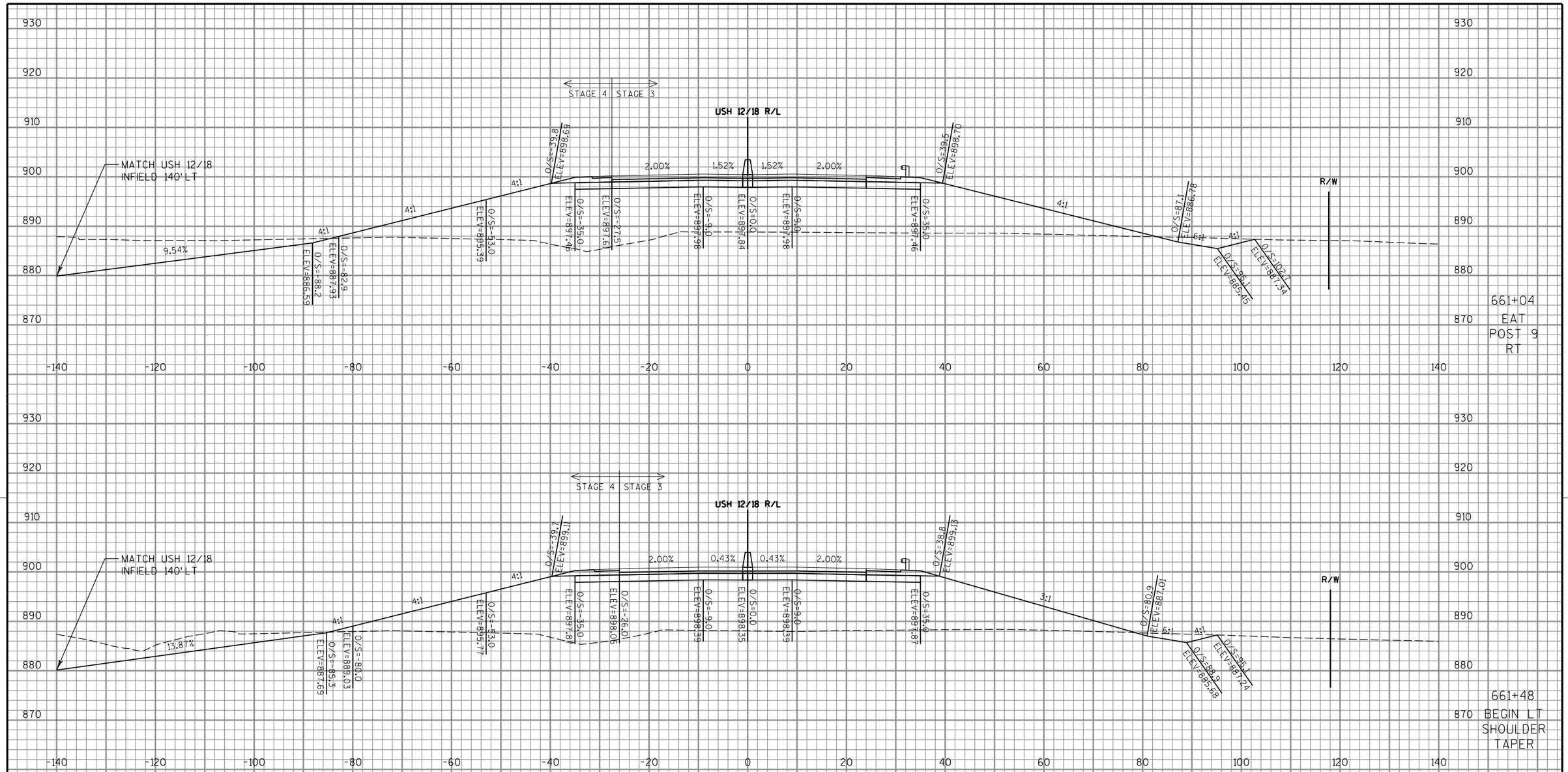
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 722	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

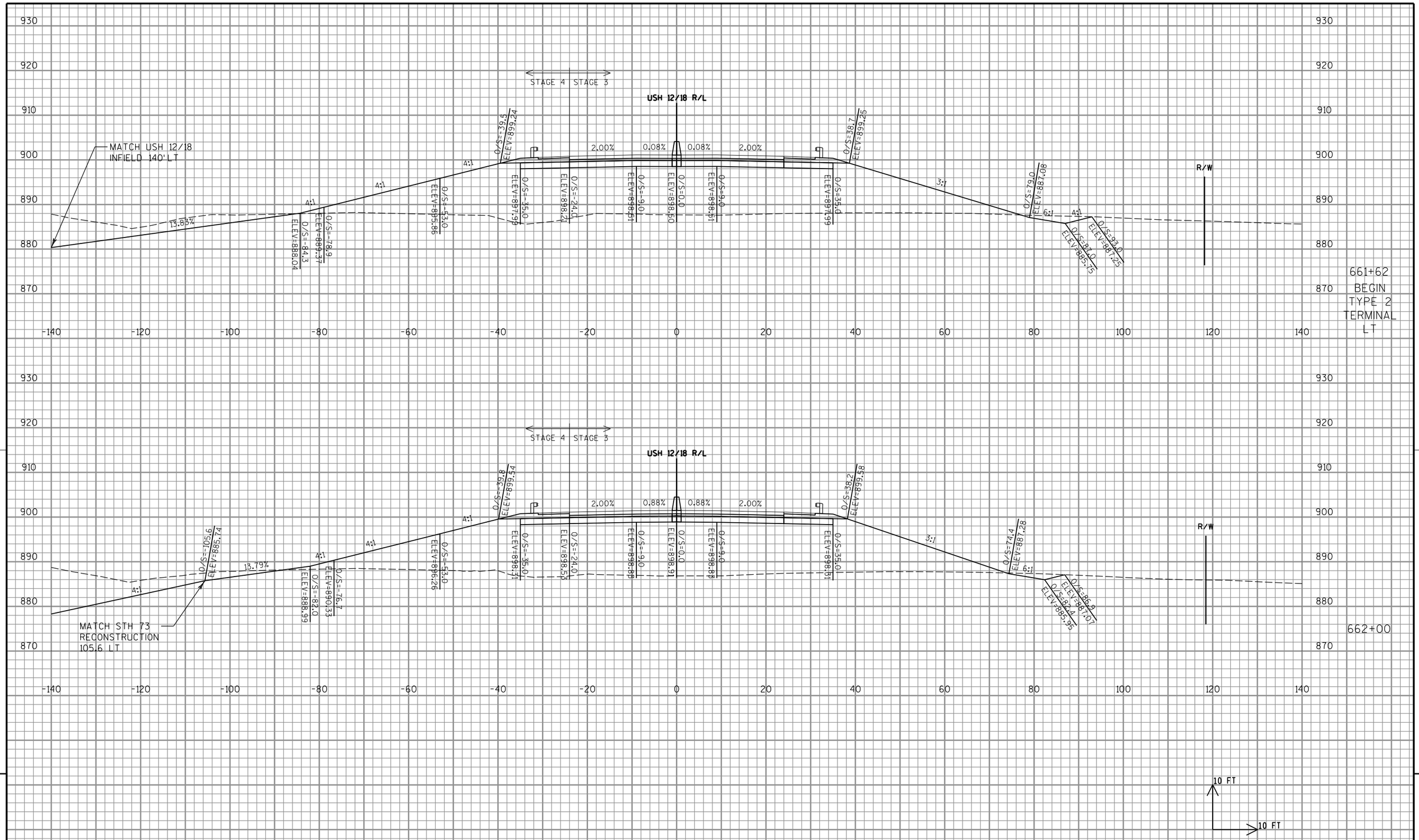
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 723	E

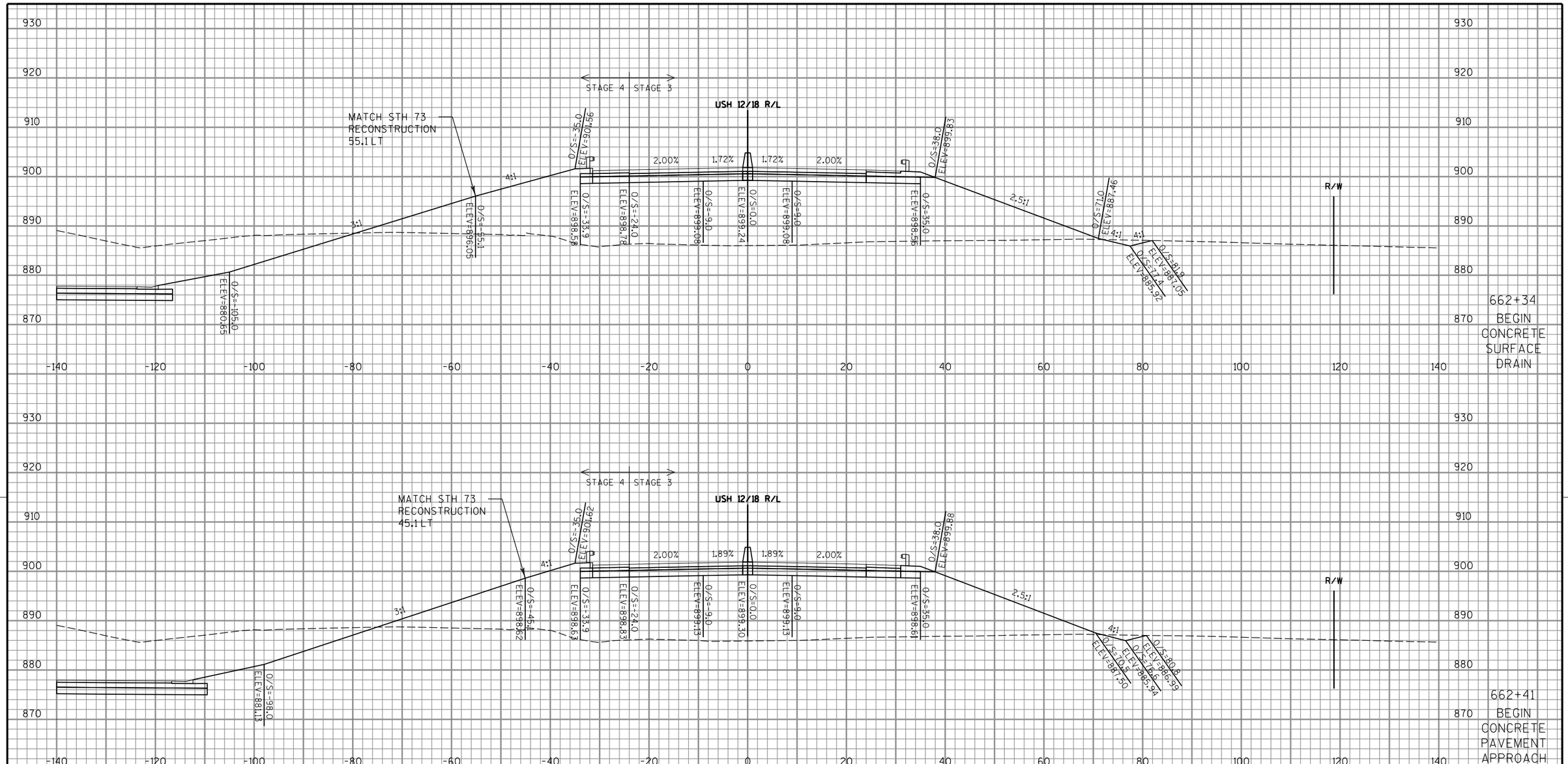
FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 724	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20



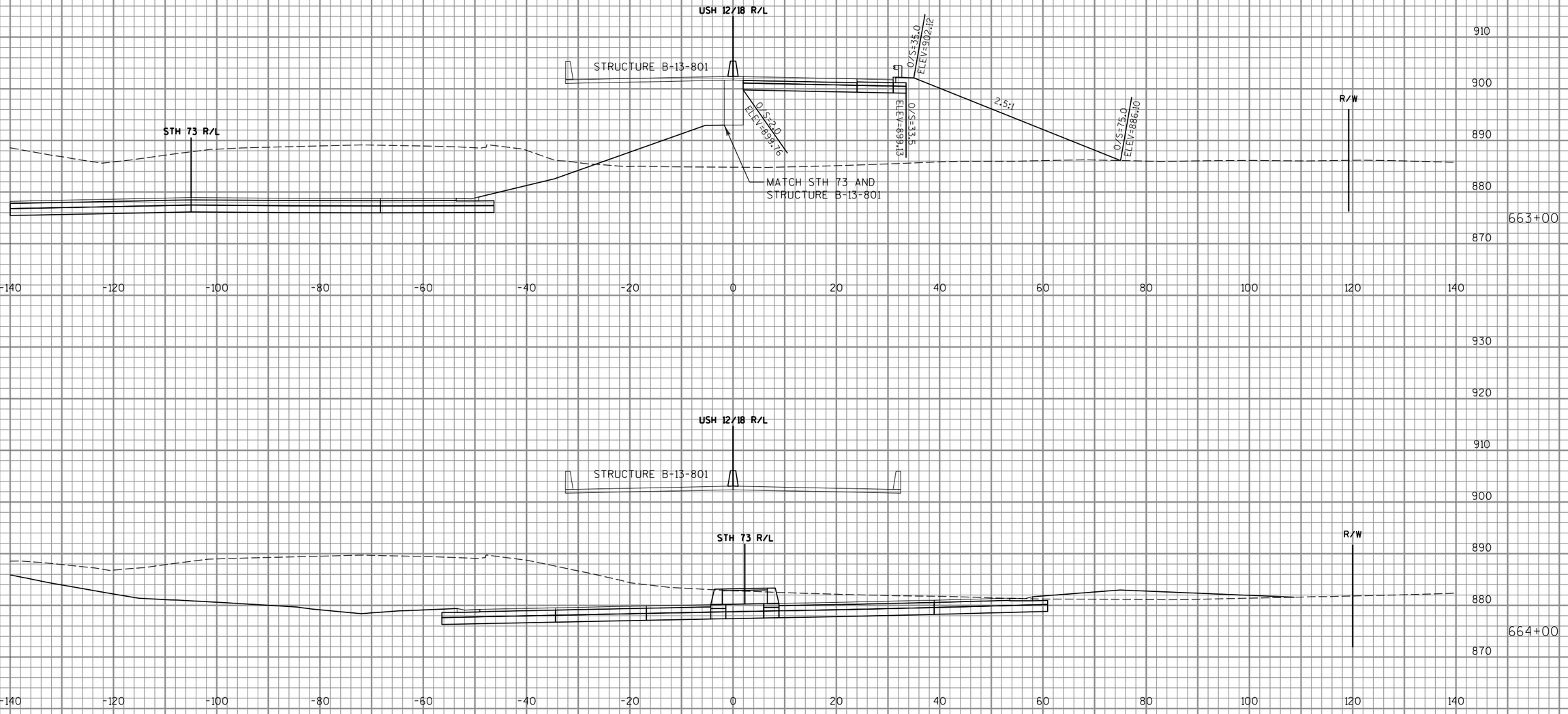
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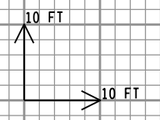
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 725	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





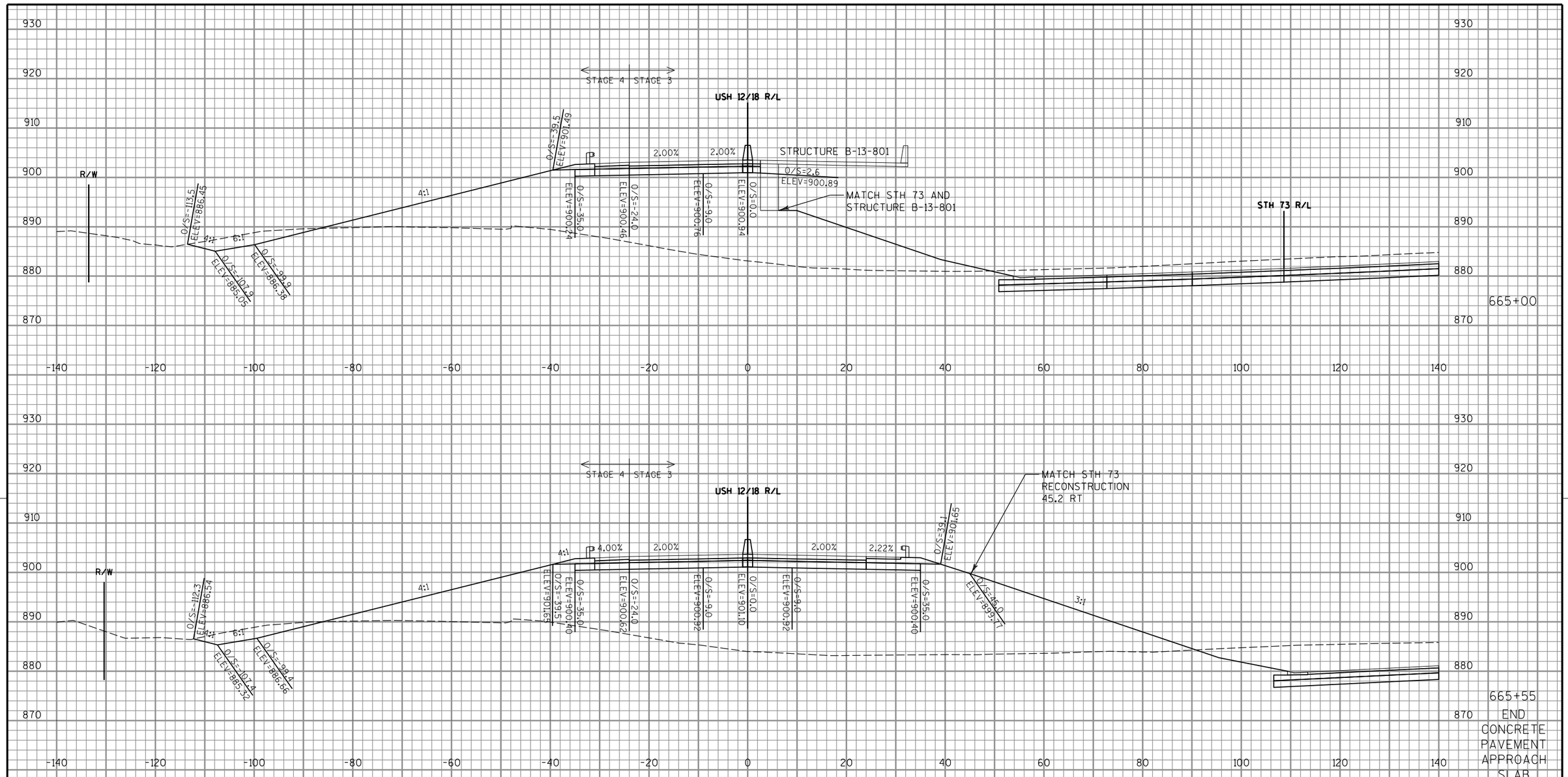
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 726	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

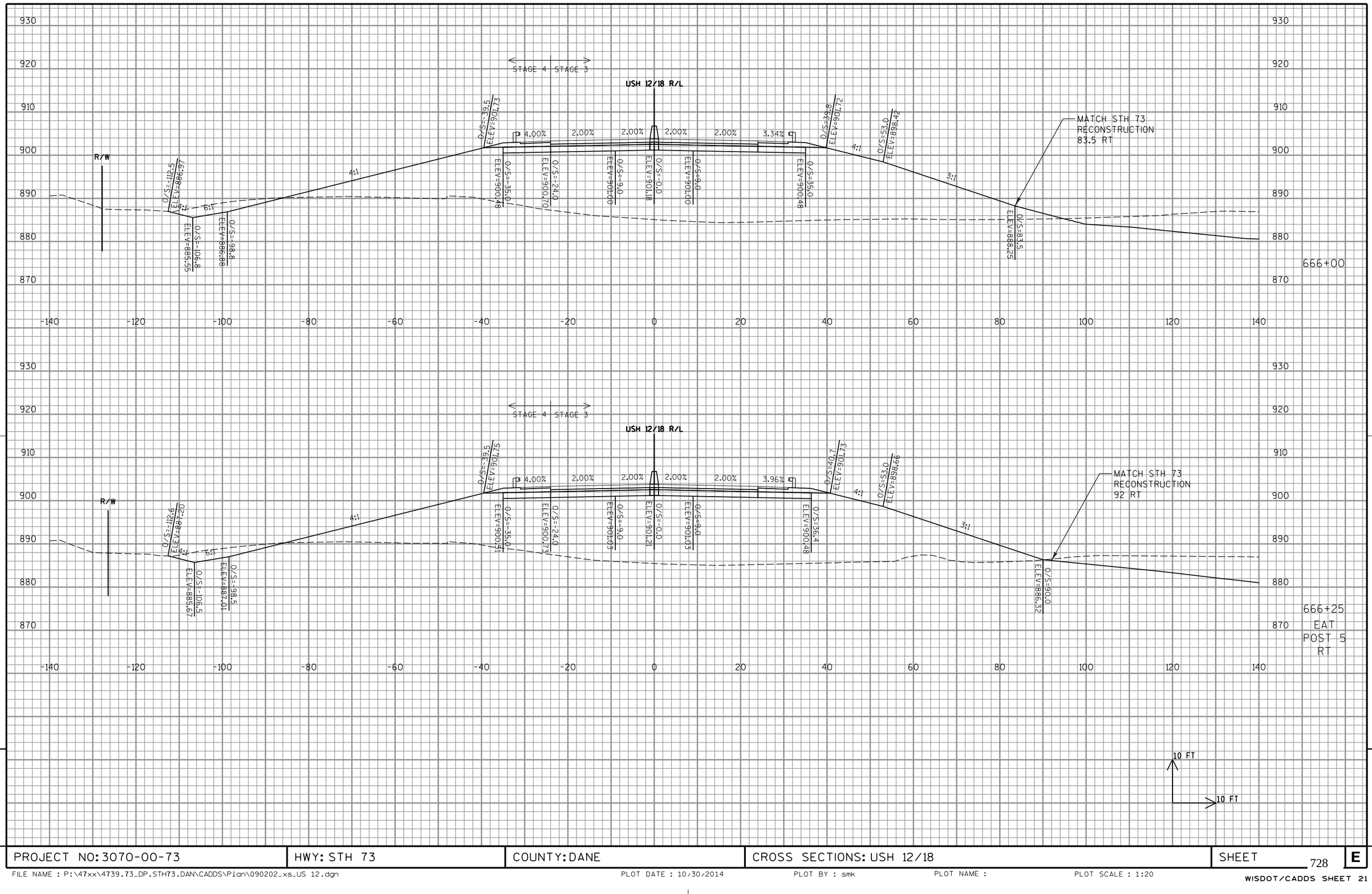


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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 727	E

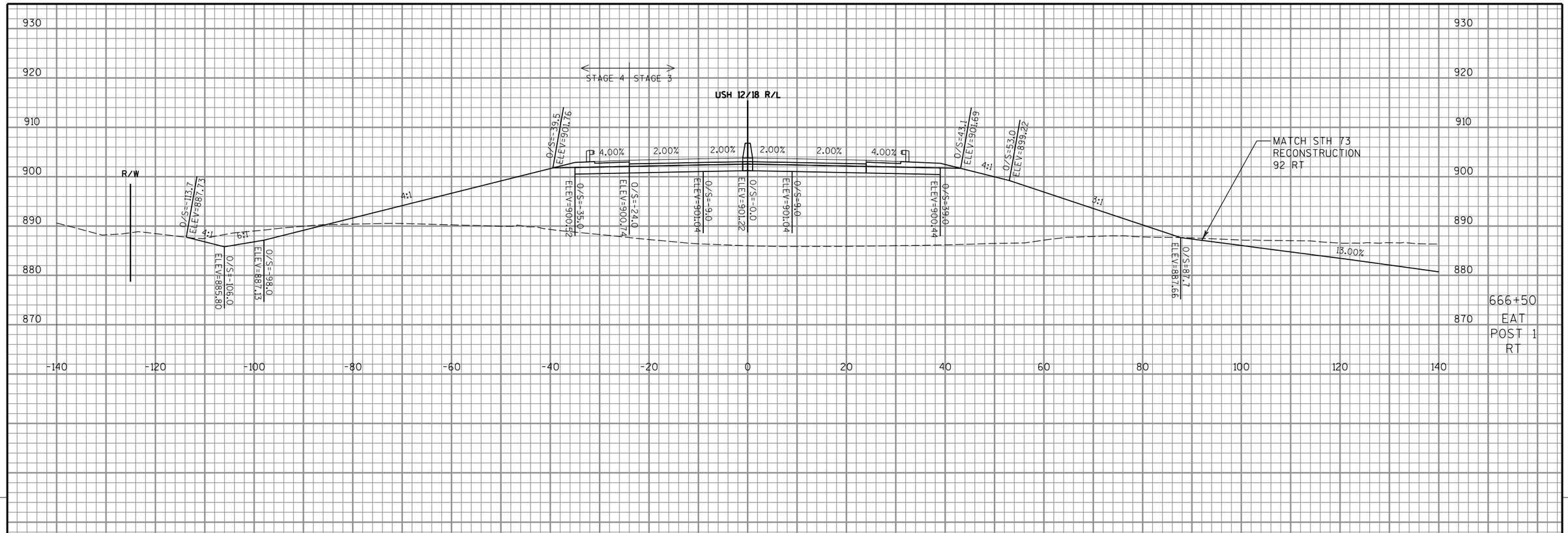
FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 728	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



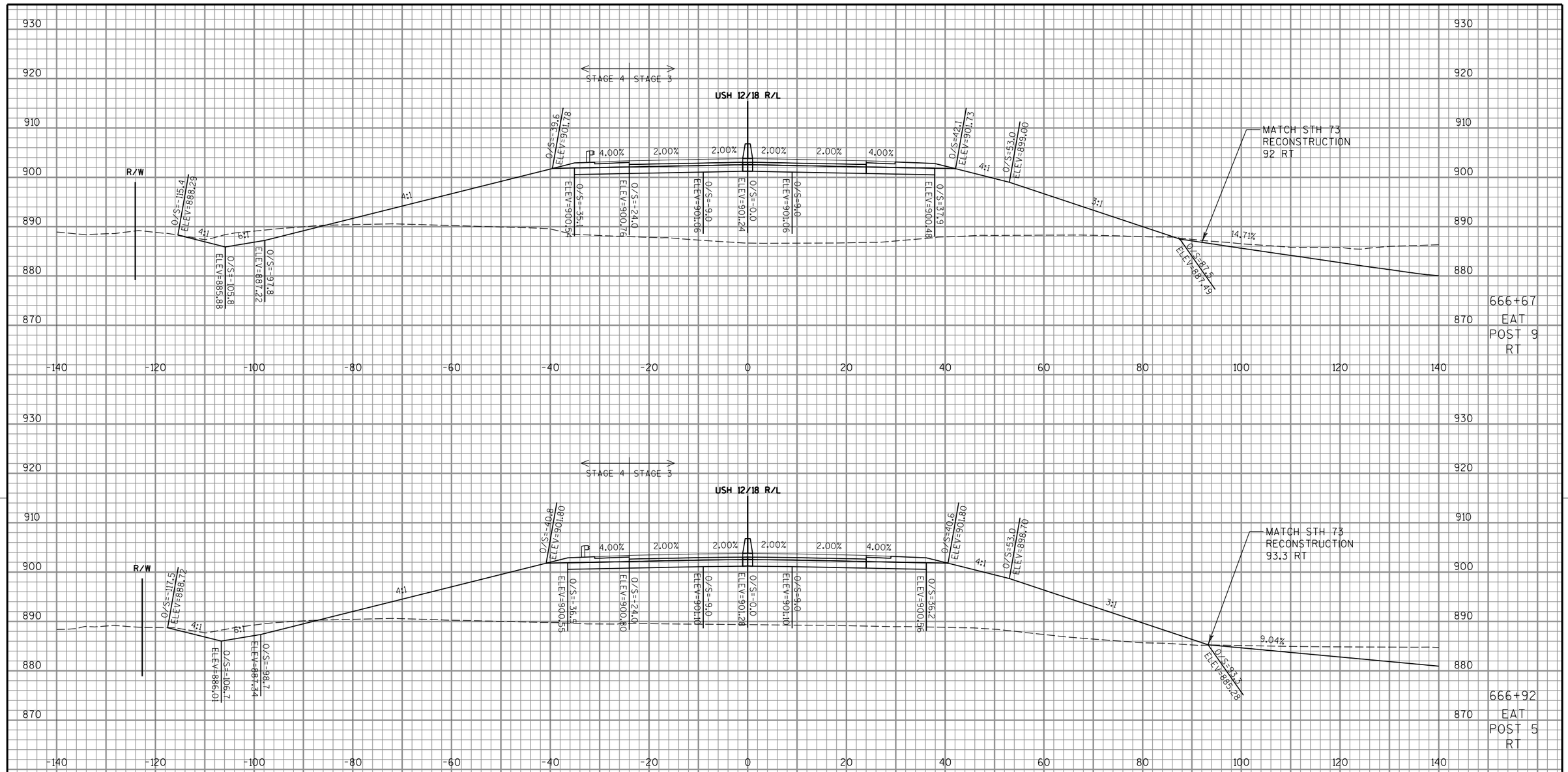
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 729	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



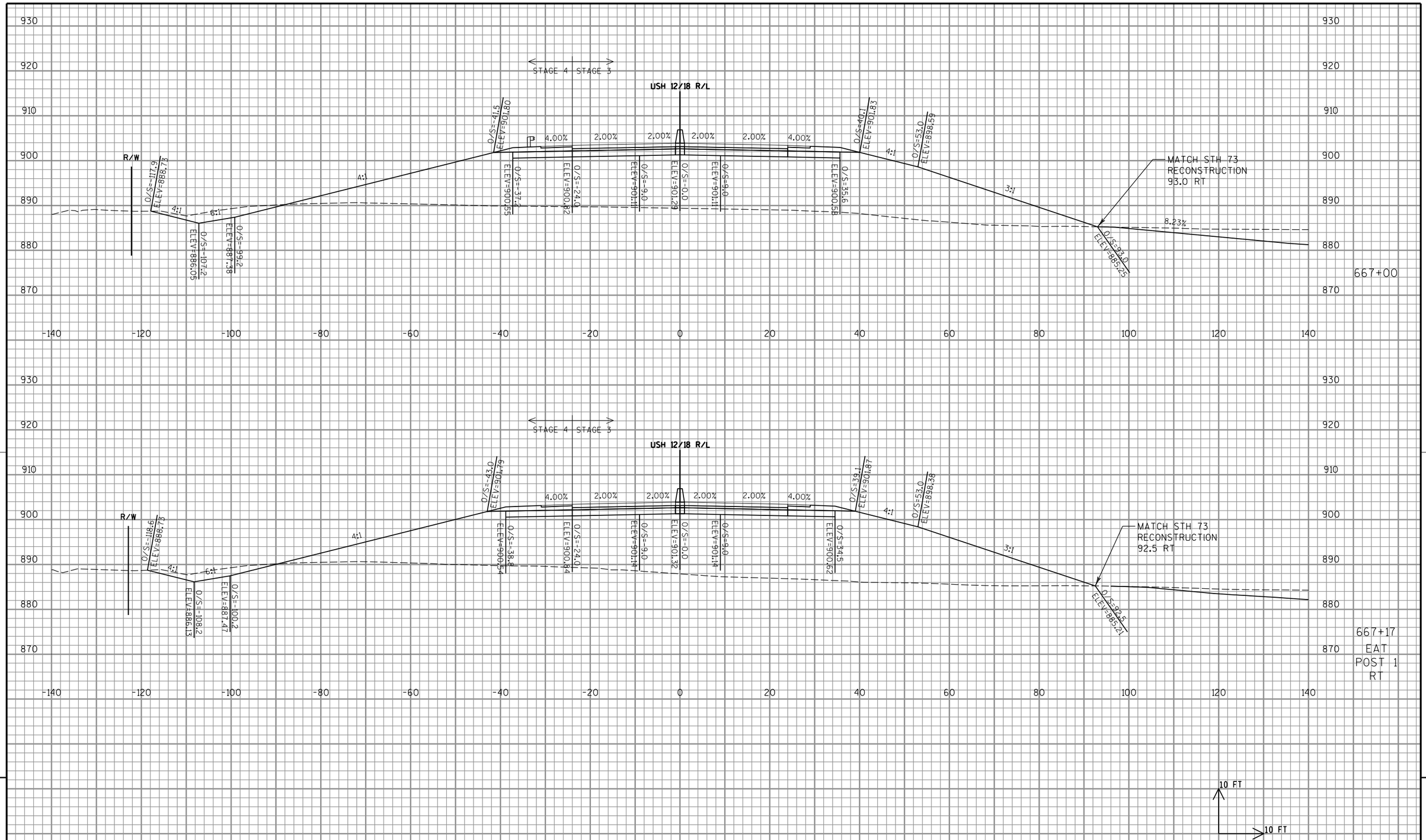
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 730	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



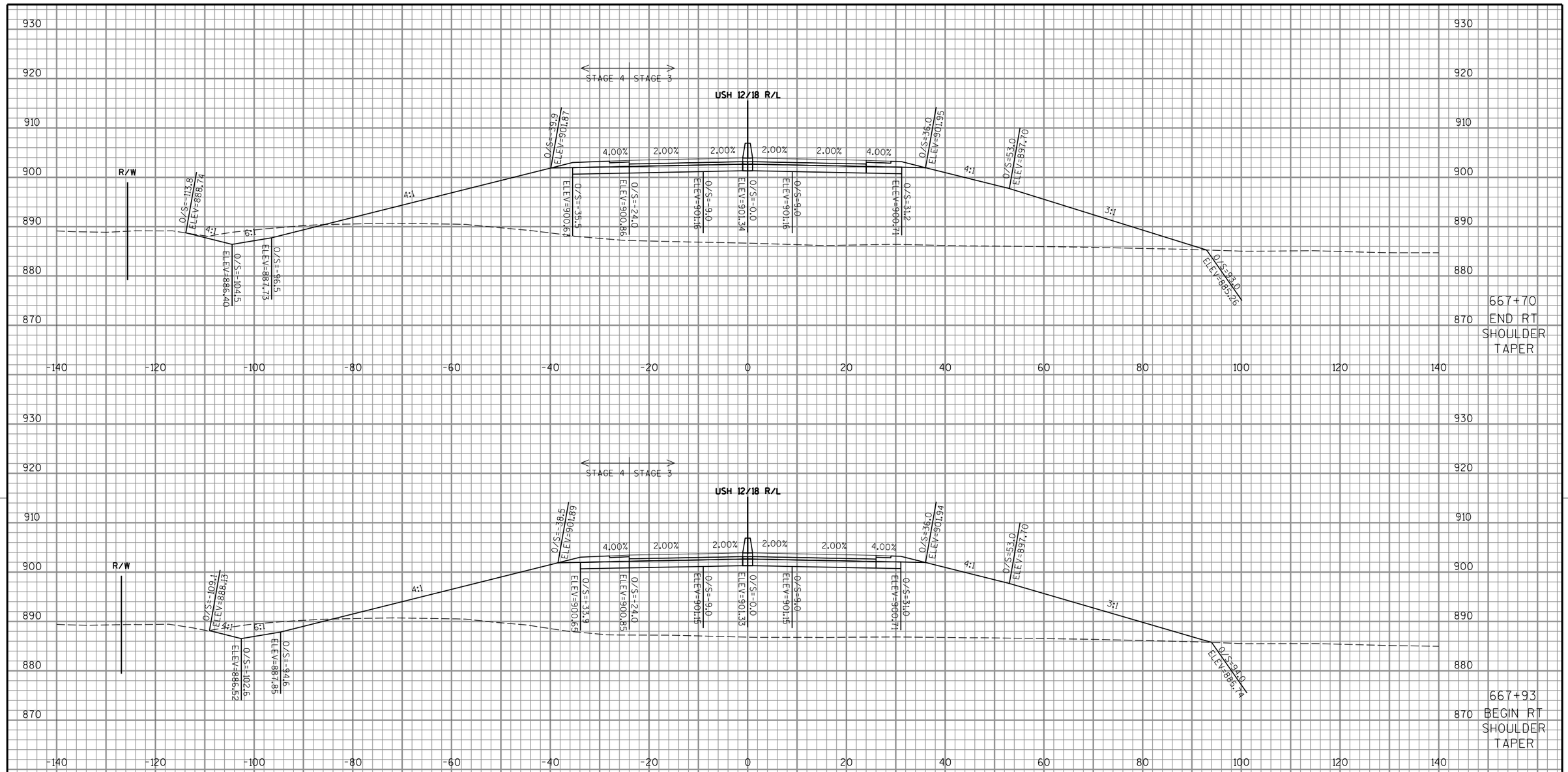
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 731	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



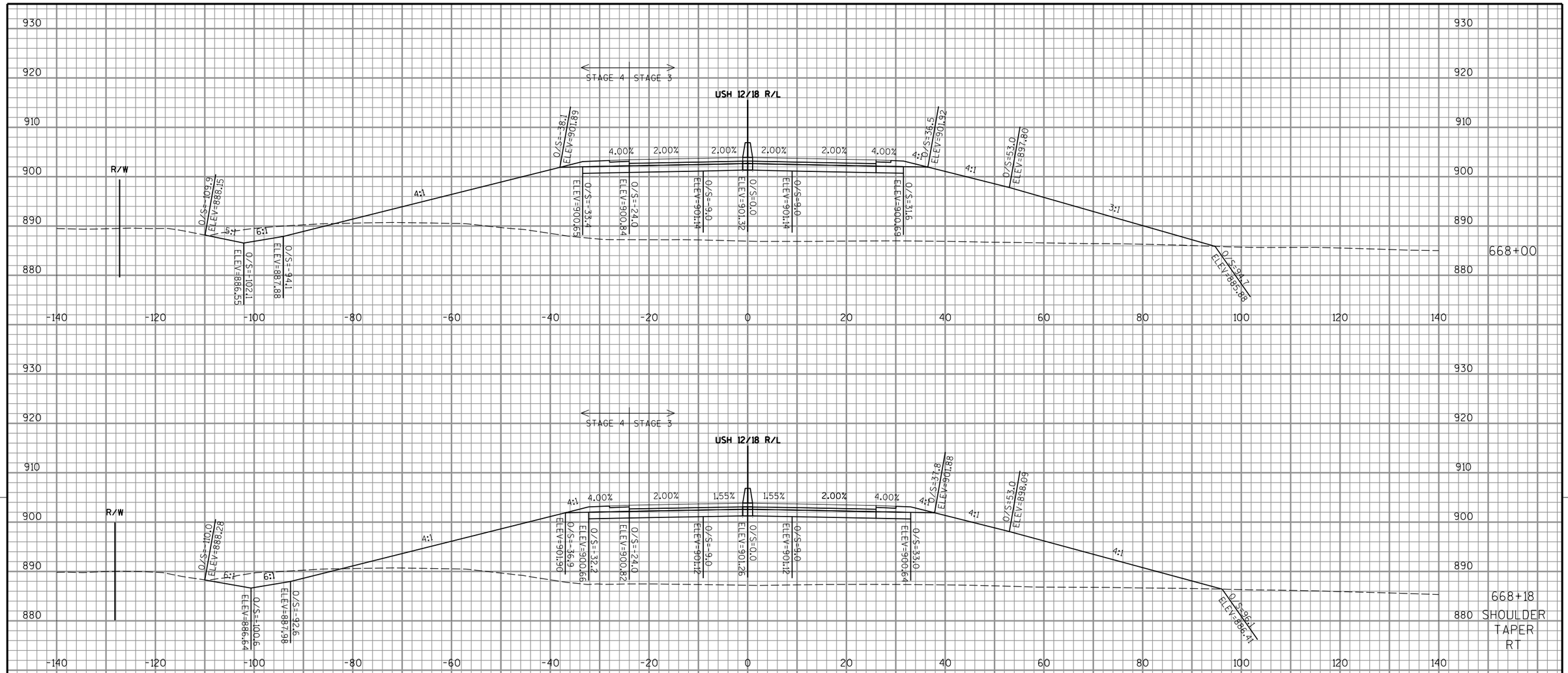
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 732	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



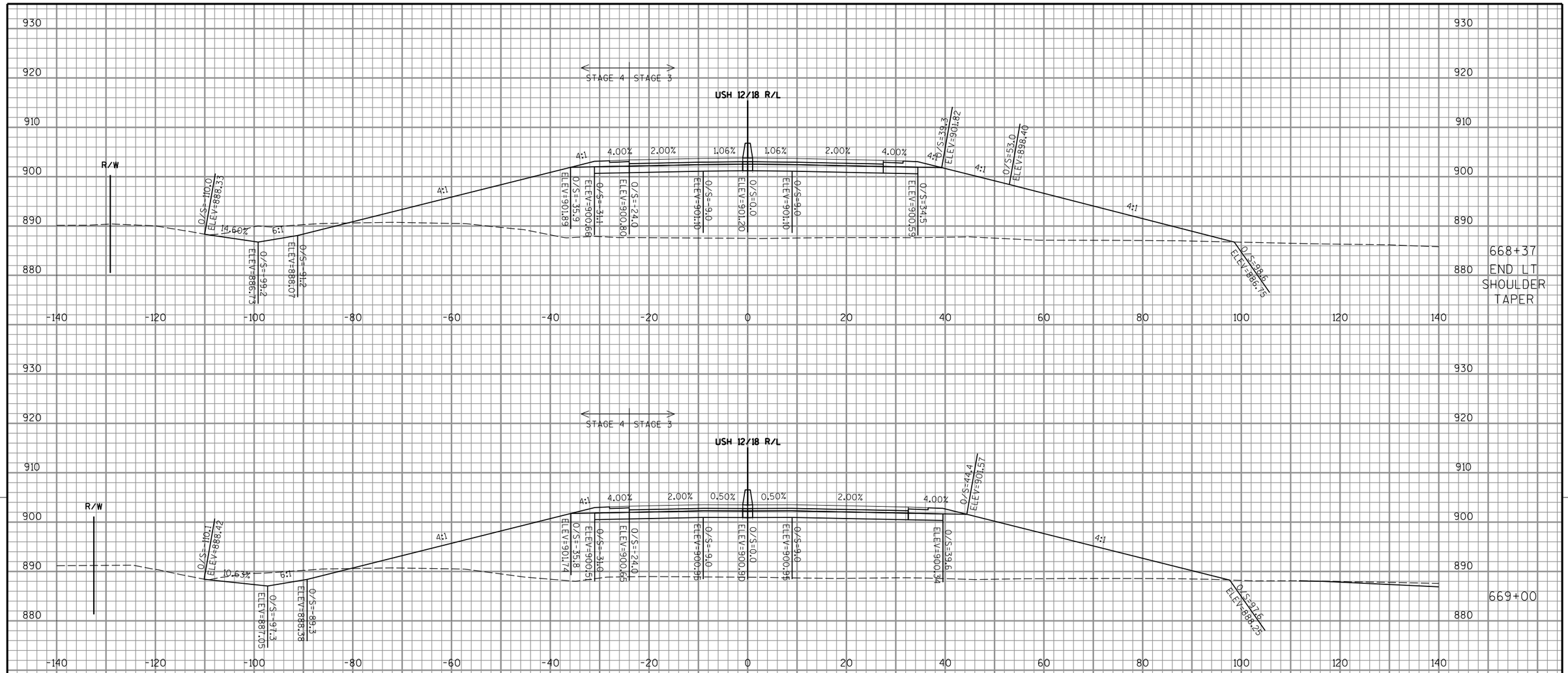
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 733	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

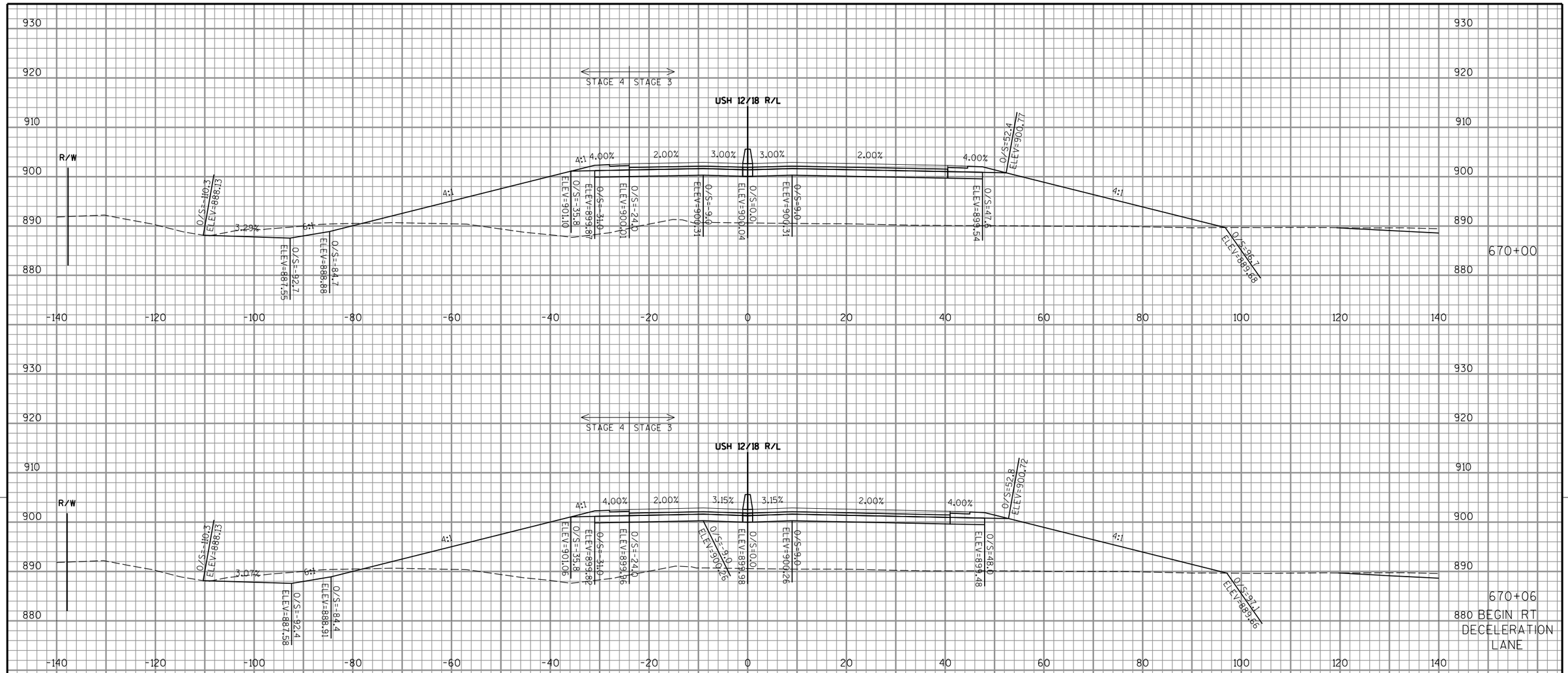
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 734	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



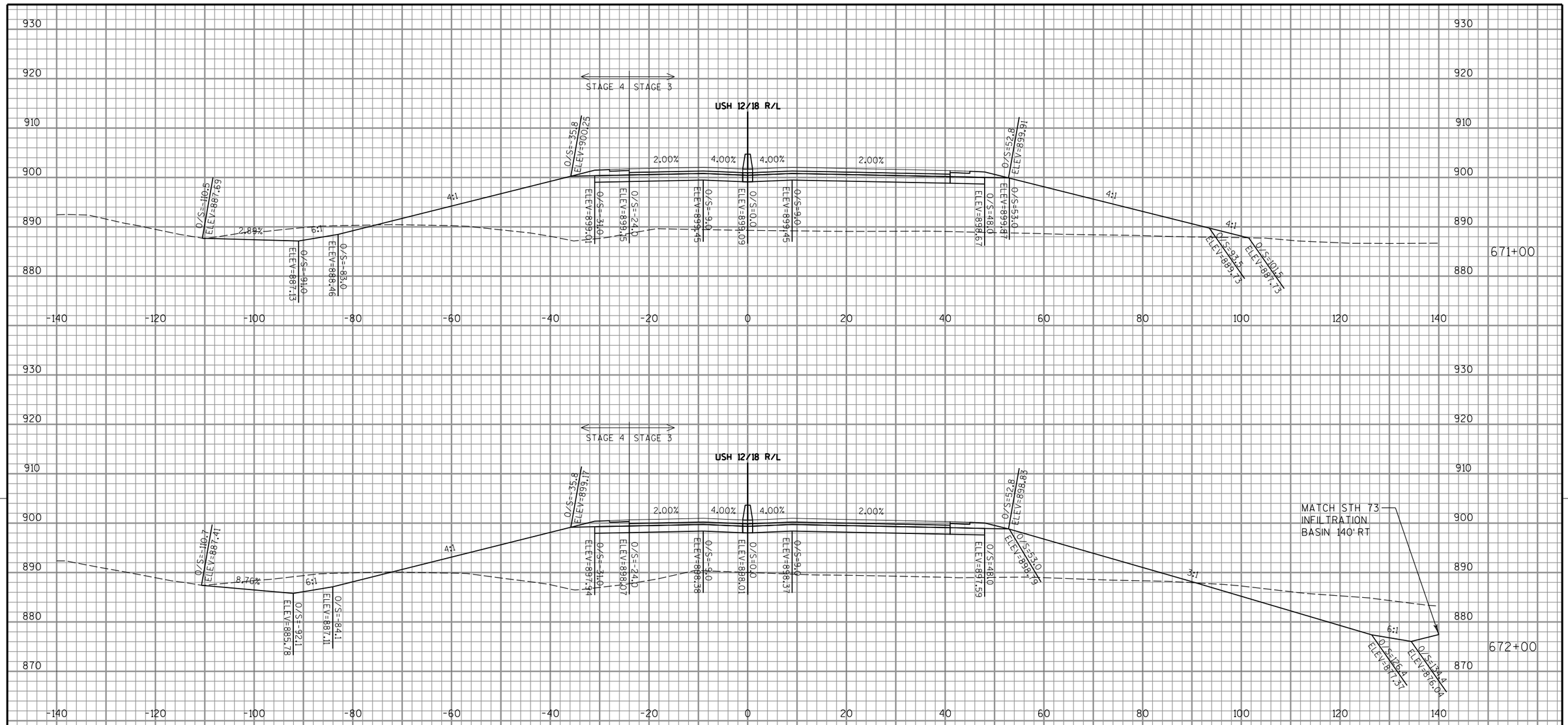
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 735	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

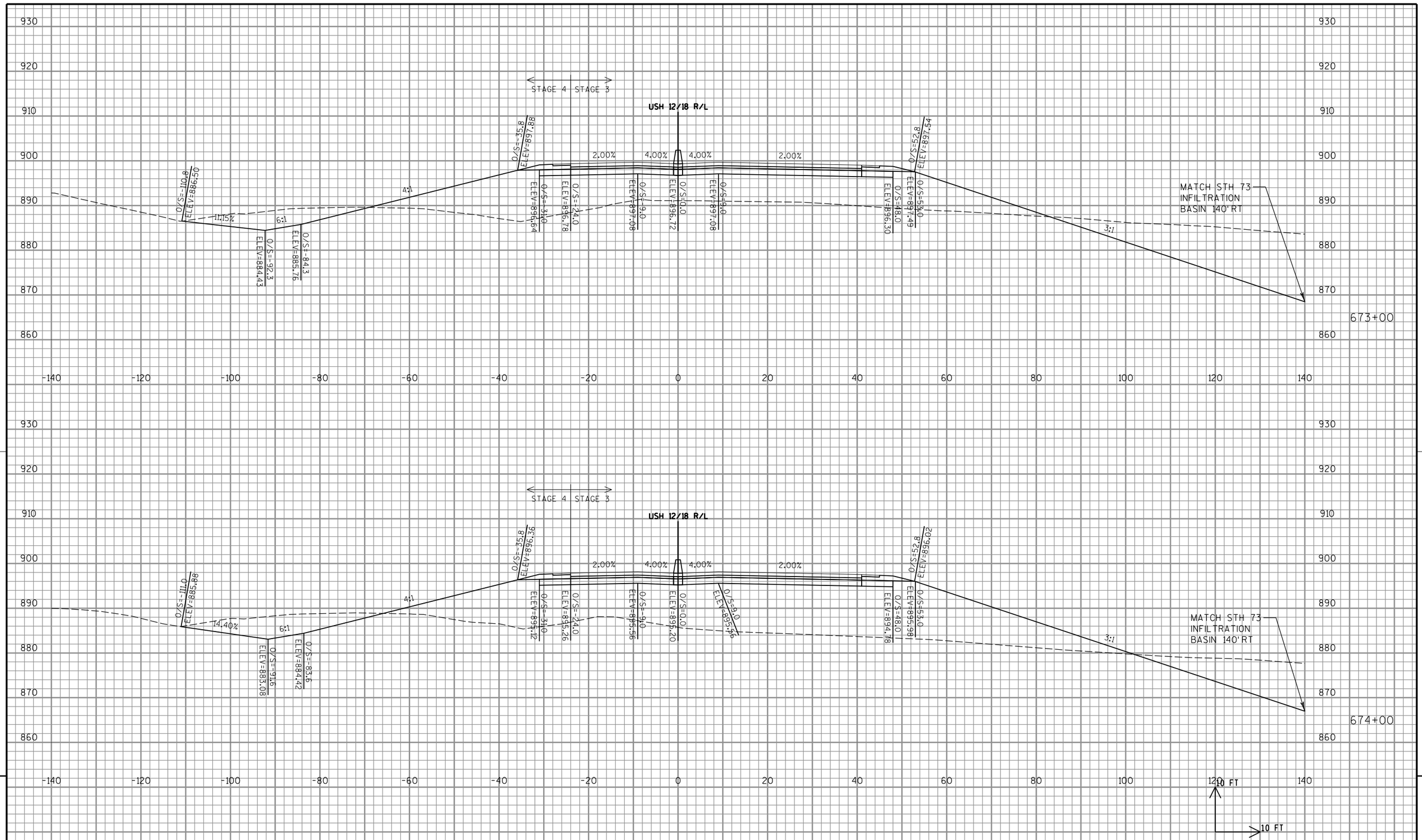
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 736	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

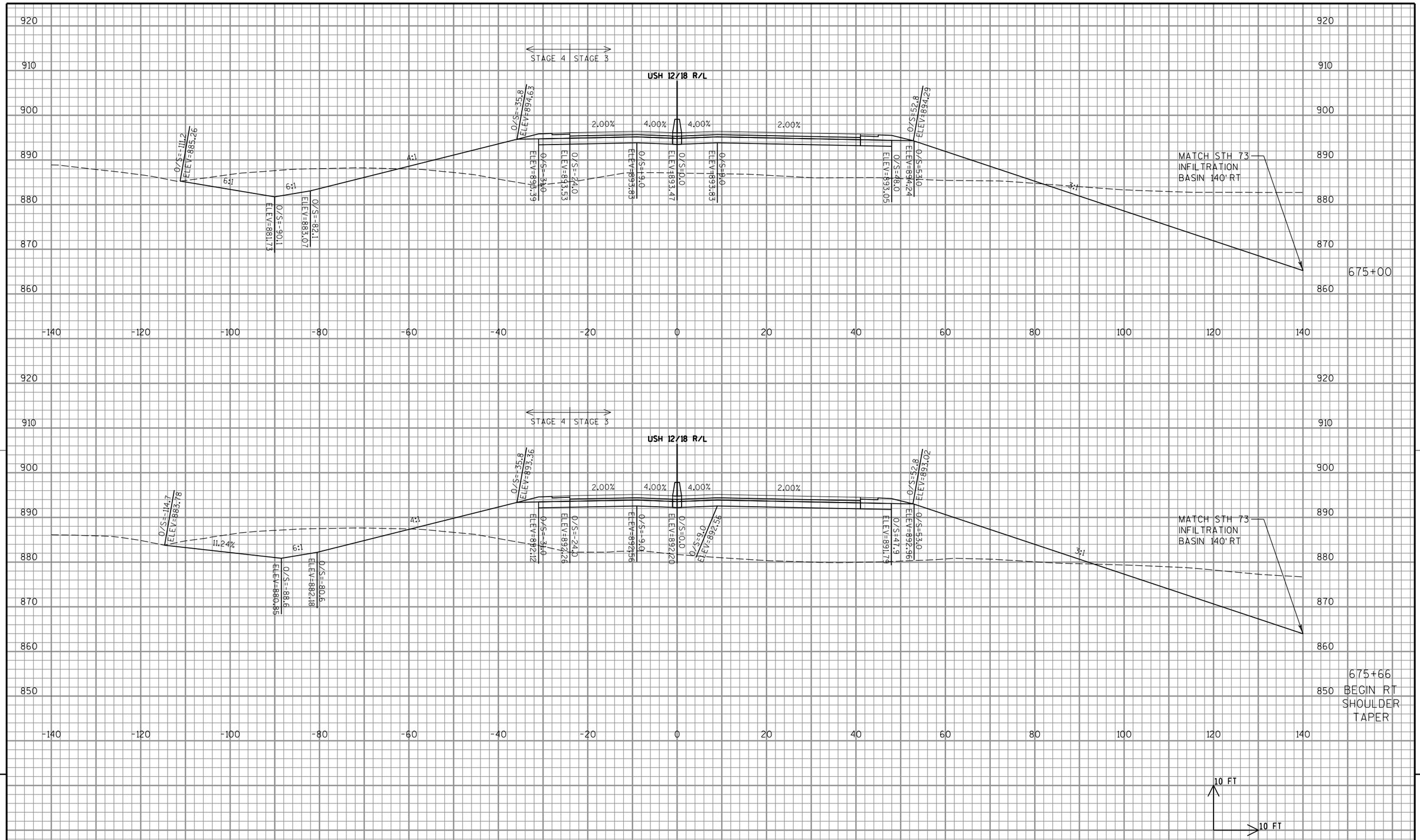
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 737	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

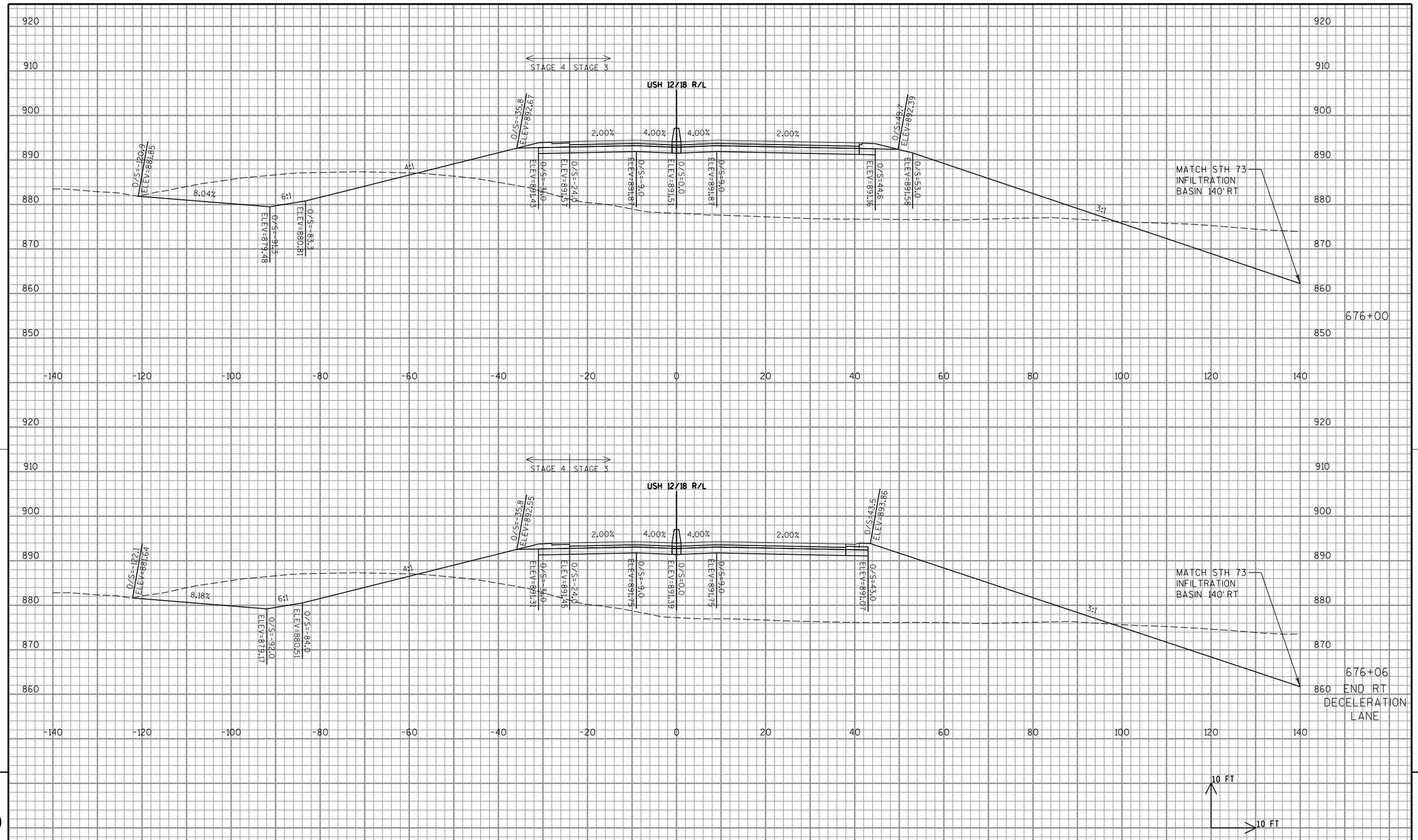
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 738	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

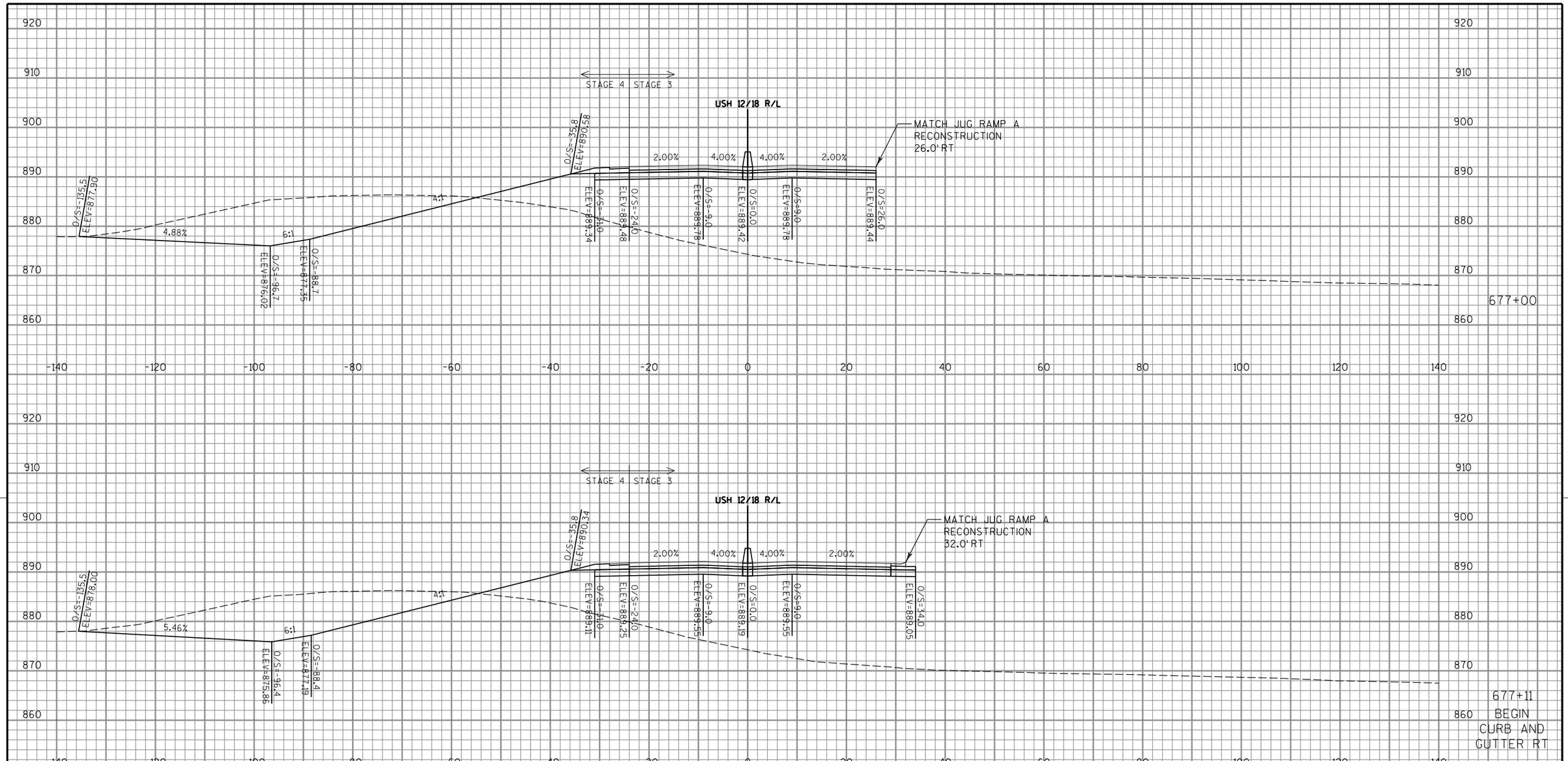
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 739	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

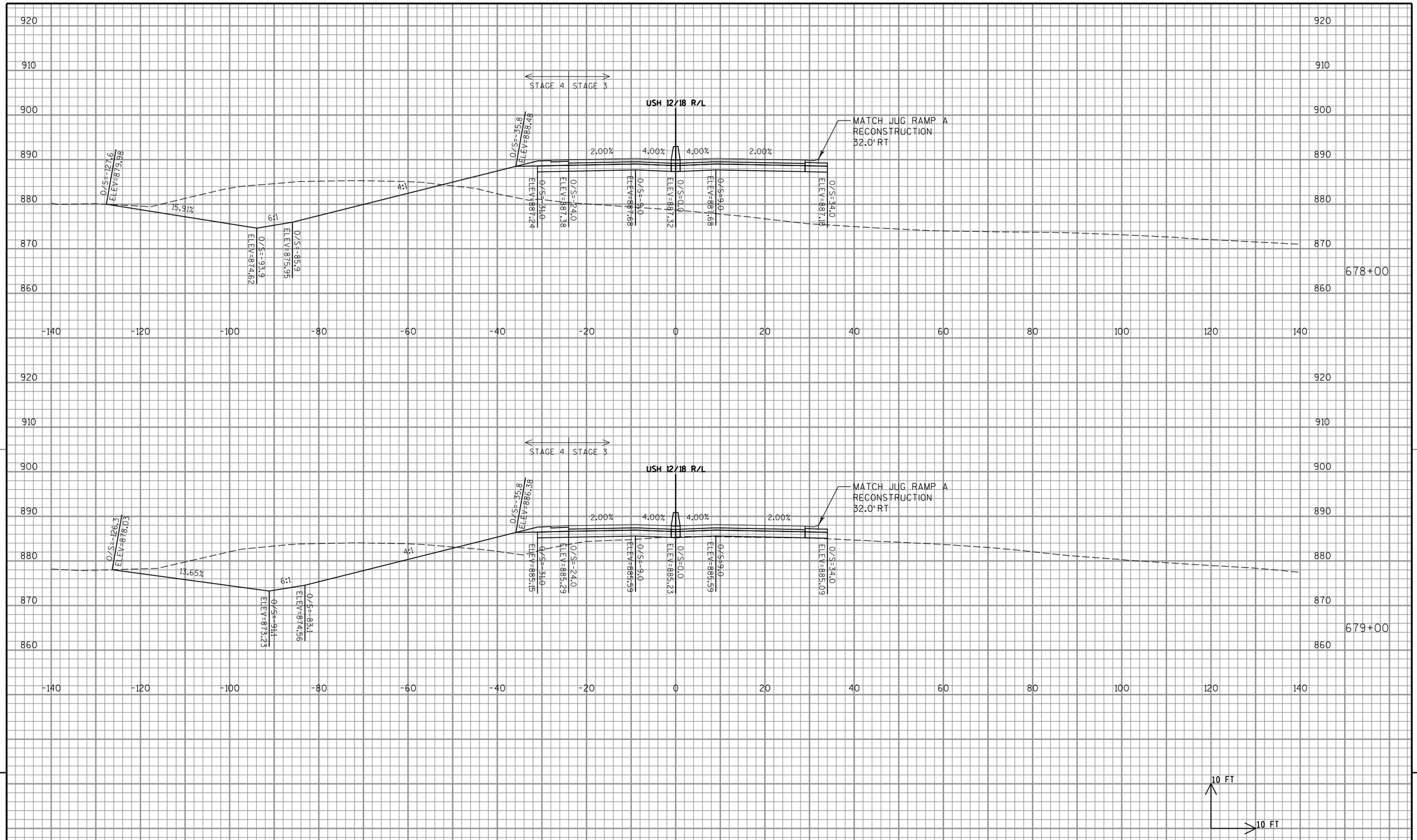
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 740	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

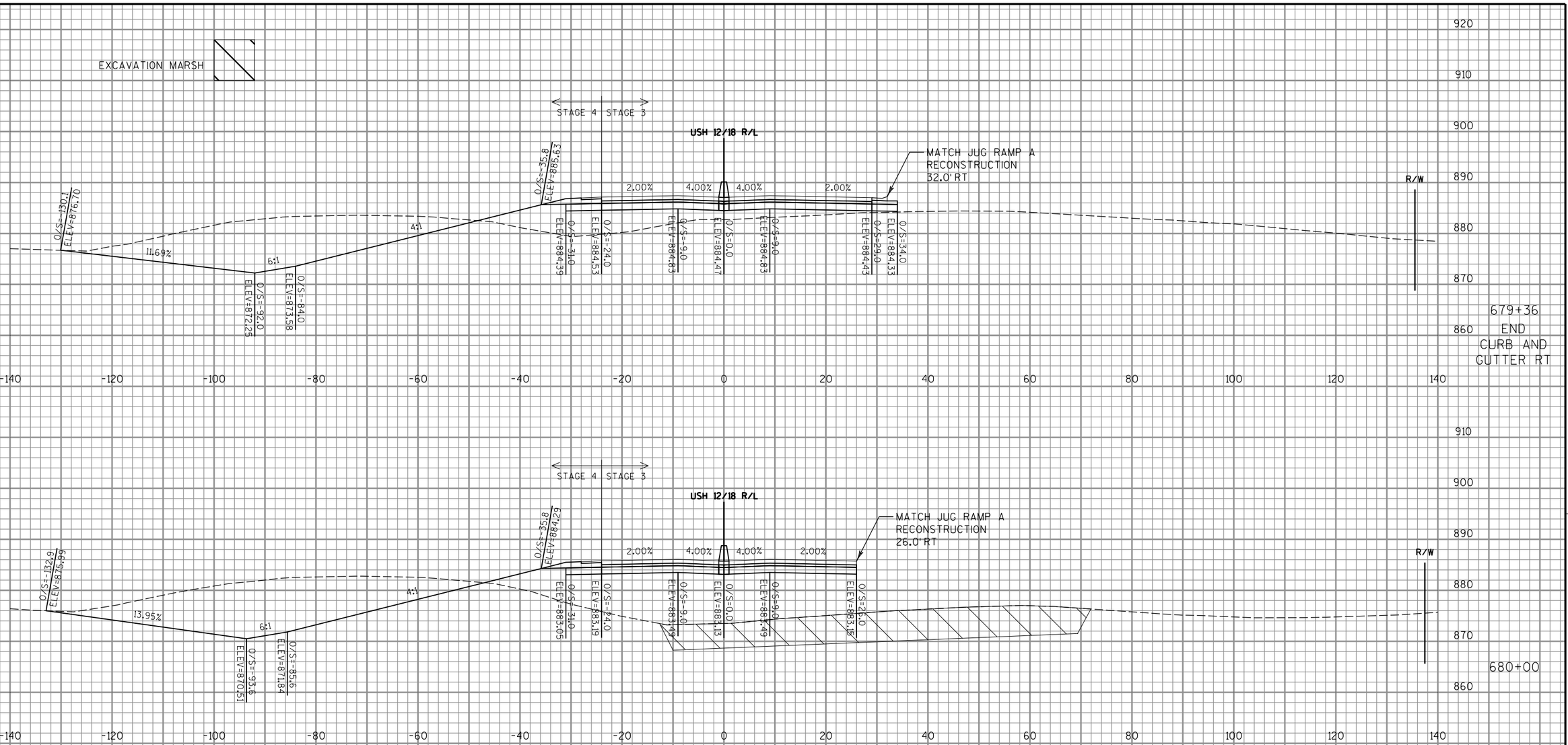
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 741	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

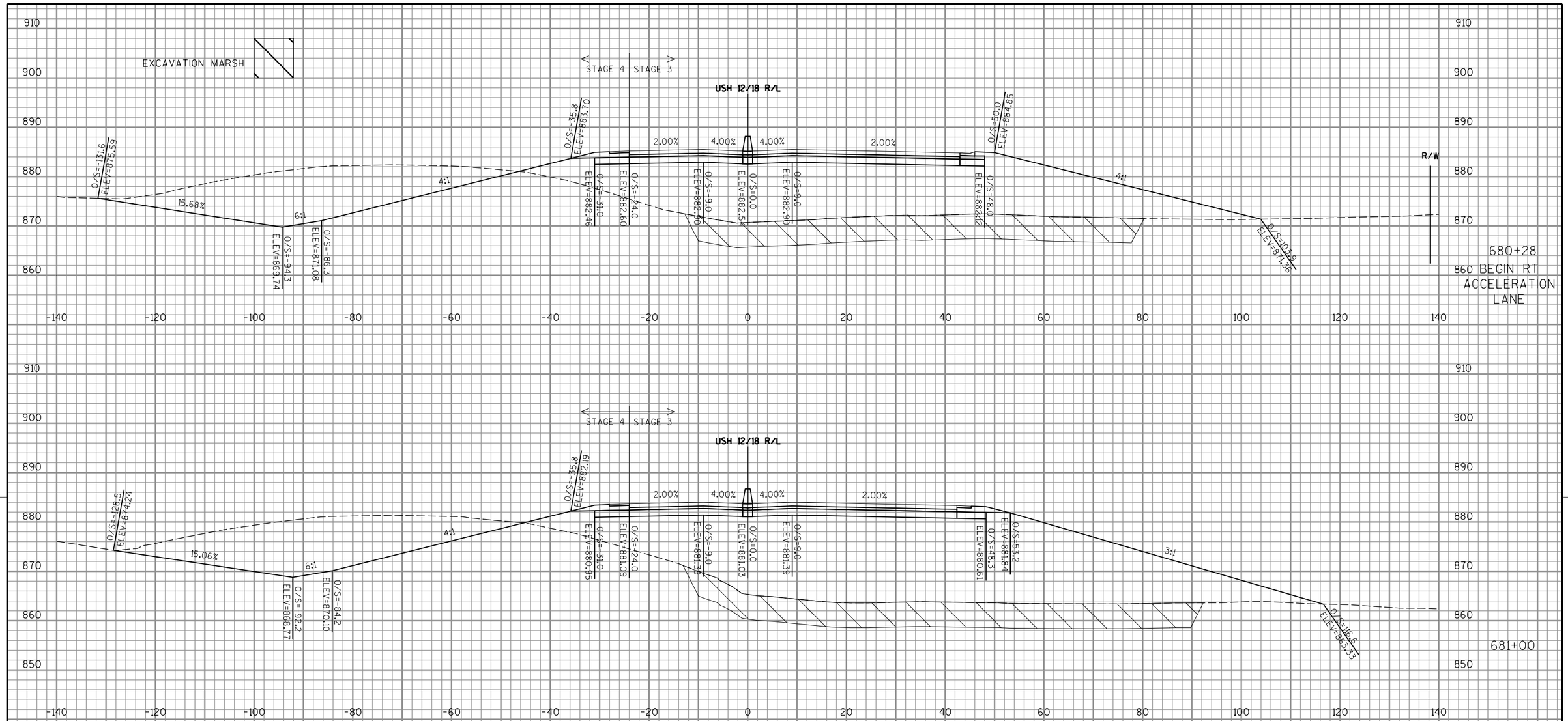
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 742	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 743	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

EXCAVATION MARSH

STAGE 4 STAGE 3

USH 12/18 R/L

STA 681+21
30" CPRC REQ'D

O/S=-126.9
ELEV=874.77

13.81%

6:1

O/S=-79.9
ELEV=870.72

4:1

O/S=-87.9
ELEV=869.39

O/S=-35.8
ELEV=881.75

2.00%

4.00%

4.00%

2.00%

O/S=52.9
ELEV=881.40

O/S=53.0
ELEV=881.36

3:1

O/S=-31.0
ELEV=880.51

O/S=-24.0
ELEV=880.65

O/S=-9.0
ELEV=880.95

O/S=0.0
ELEV=880.58

O/S=-9.0
ELEV=880.95

O/S=48.1
ELEV=880.17

O/S=-117.8
ELEV=861.35

681+21
CULVERT

O/S=-126.2
ELEV=874.92

13.47%

6:1

O/S=-86.6
ELEV=869.59

O/S=-78.6
ELEV=870.92

4:1

O/S=-35.8
ELEV=881.60

2.00%

4.00%

4.00%

2.00%

O/S=52.8
ELEV=881.26

O/S=53.0
ELEV=881.22

3:1

O/S=-31.0
ELEV=880.37

O/S=-24.0
ELEV=880.51

O/S=-9.0
ELEV=880.91

O/S=0.0
ELEV=880.45

O/S=-9.0
ELEV=880.81

O/S=48.0
ELEV=880.03

O/S=-117.5
ELEV=860.92

681+28
END RT
SHOULDER
TAPER

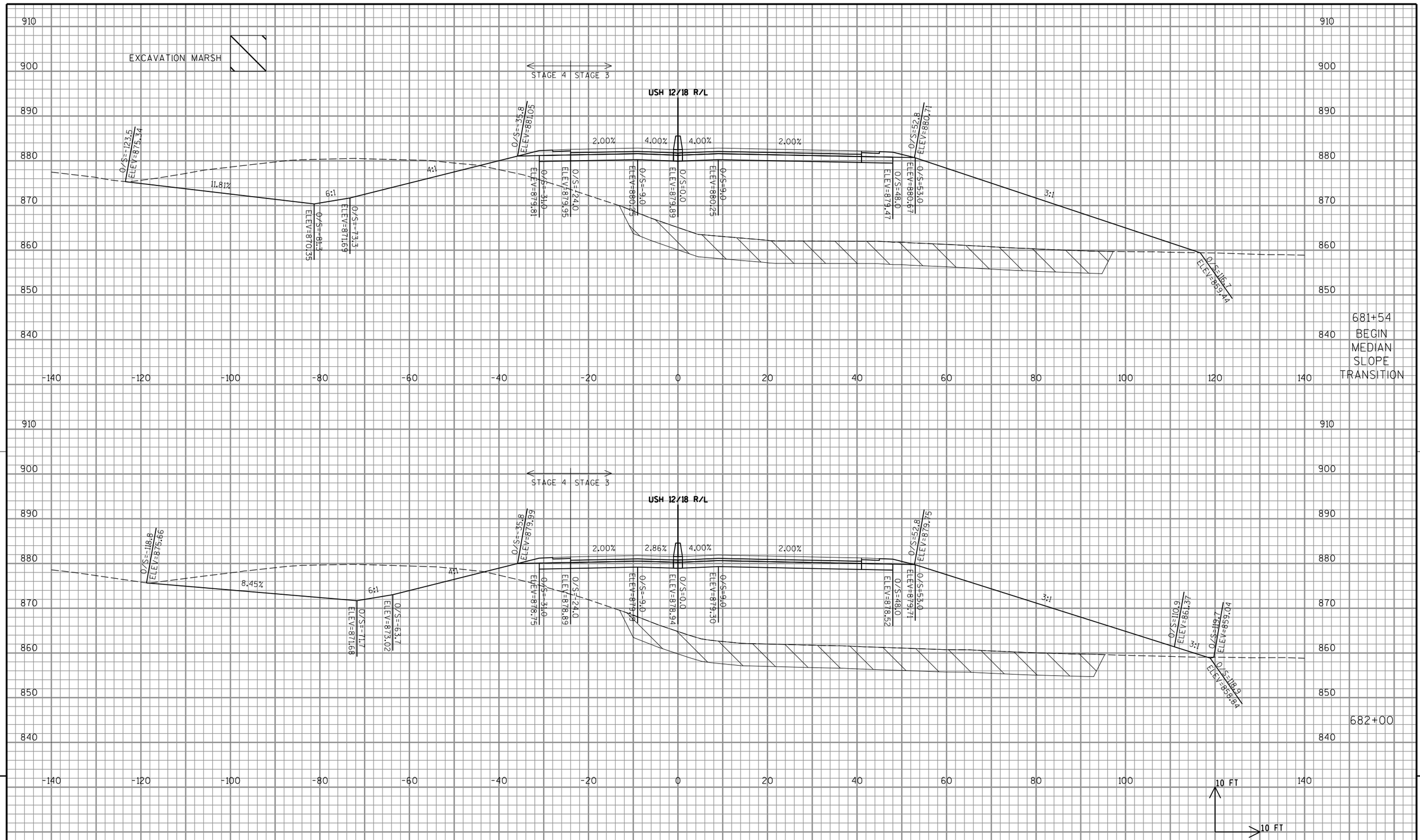
10 FT

10 FT

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 744	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

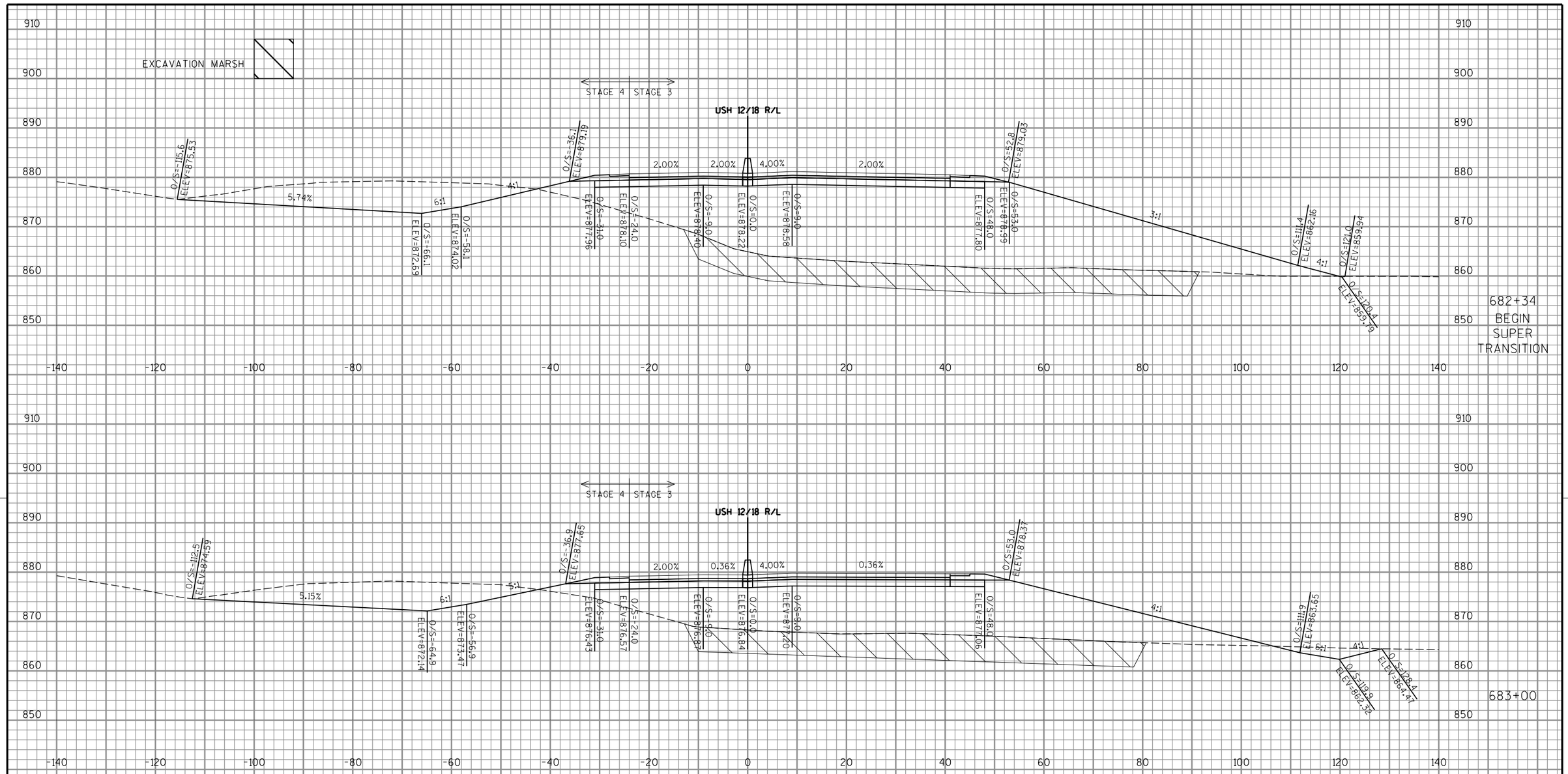
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 745	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

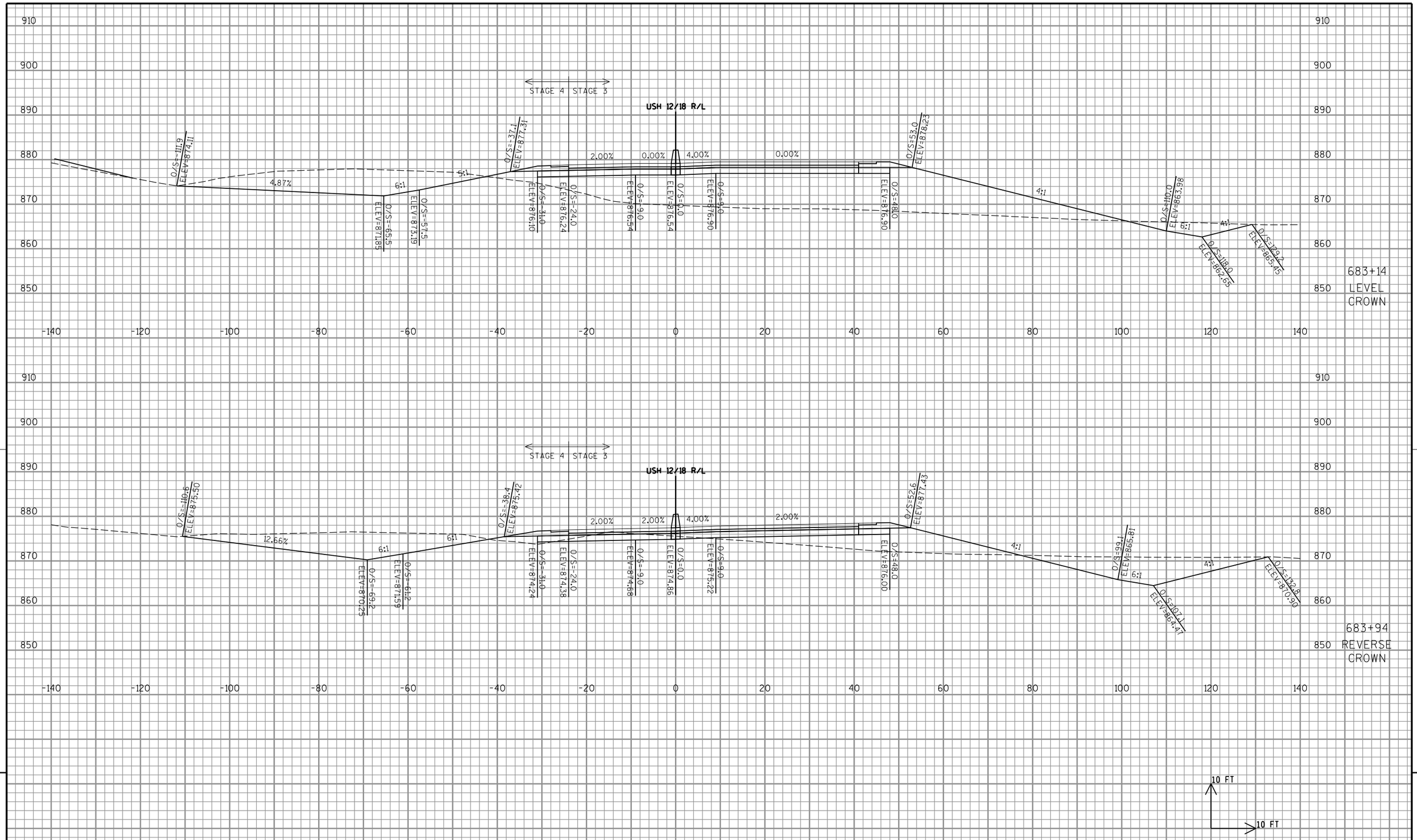
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 746	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



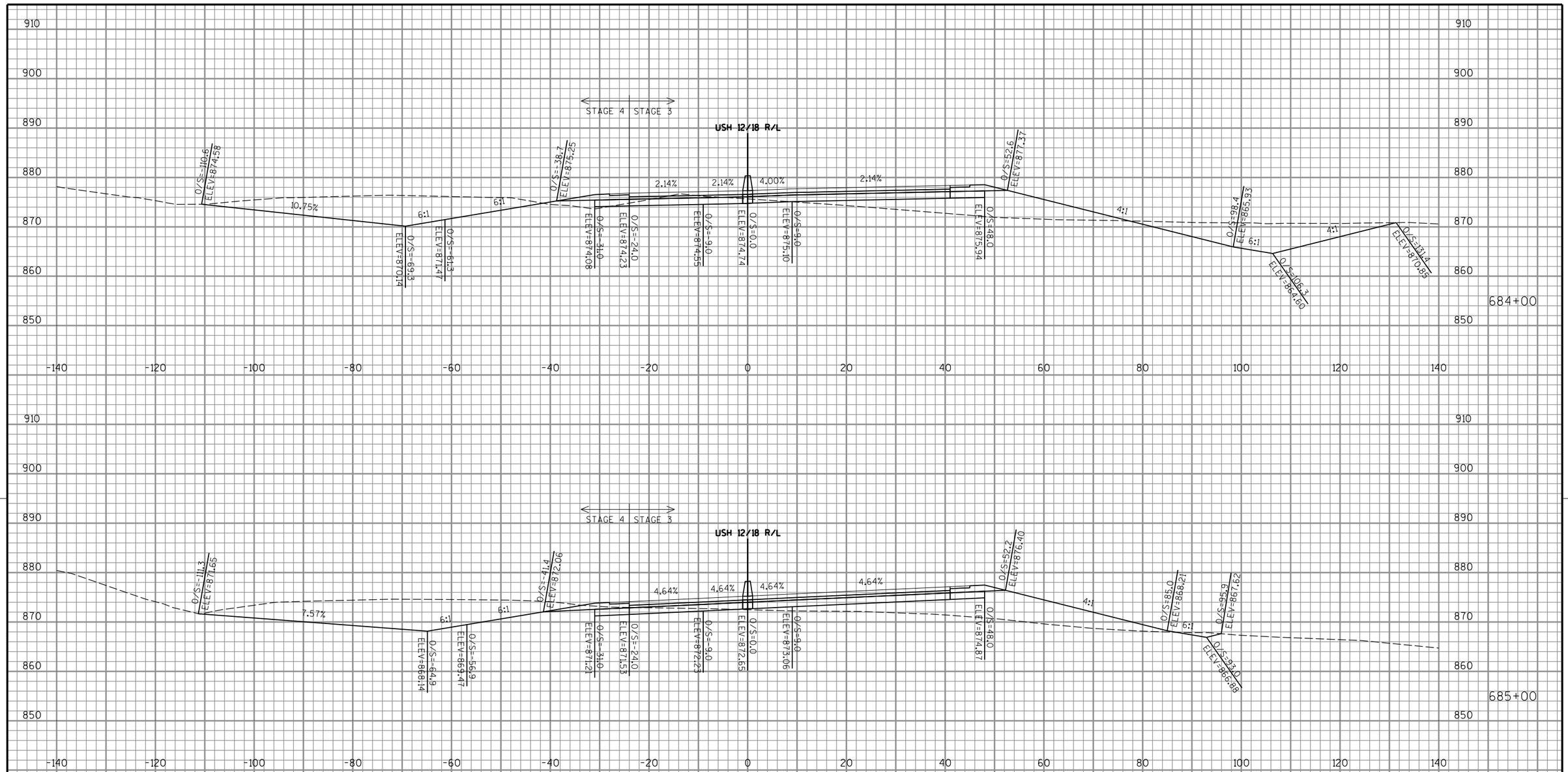
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 747	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

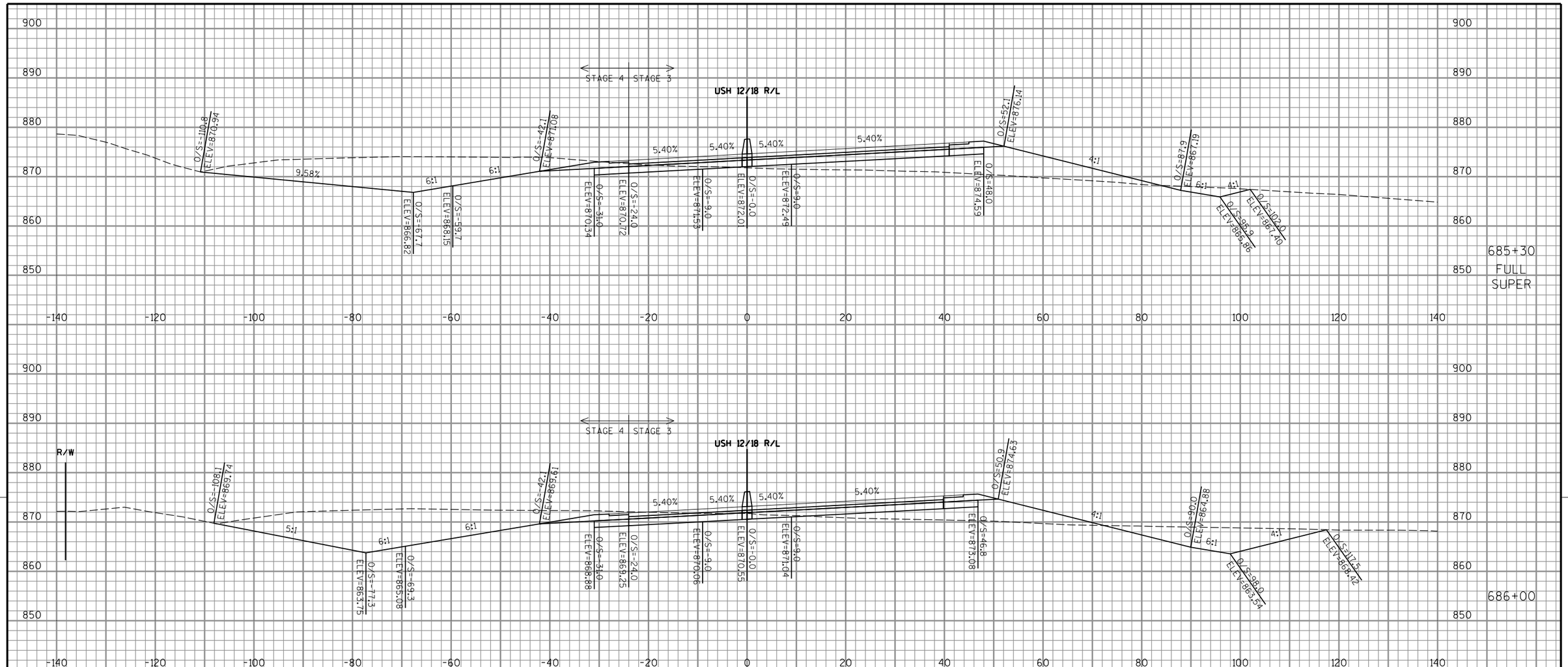
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 748	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/31/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



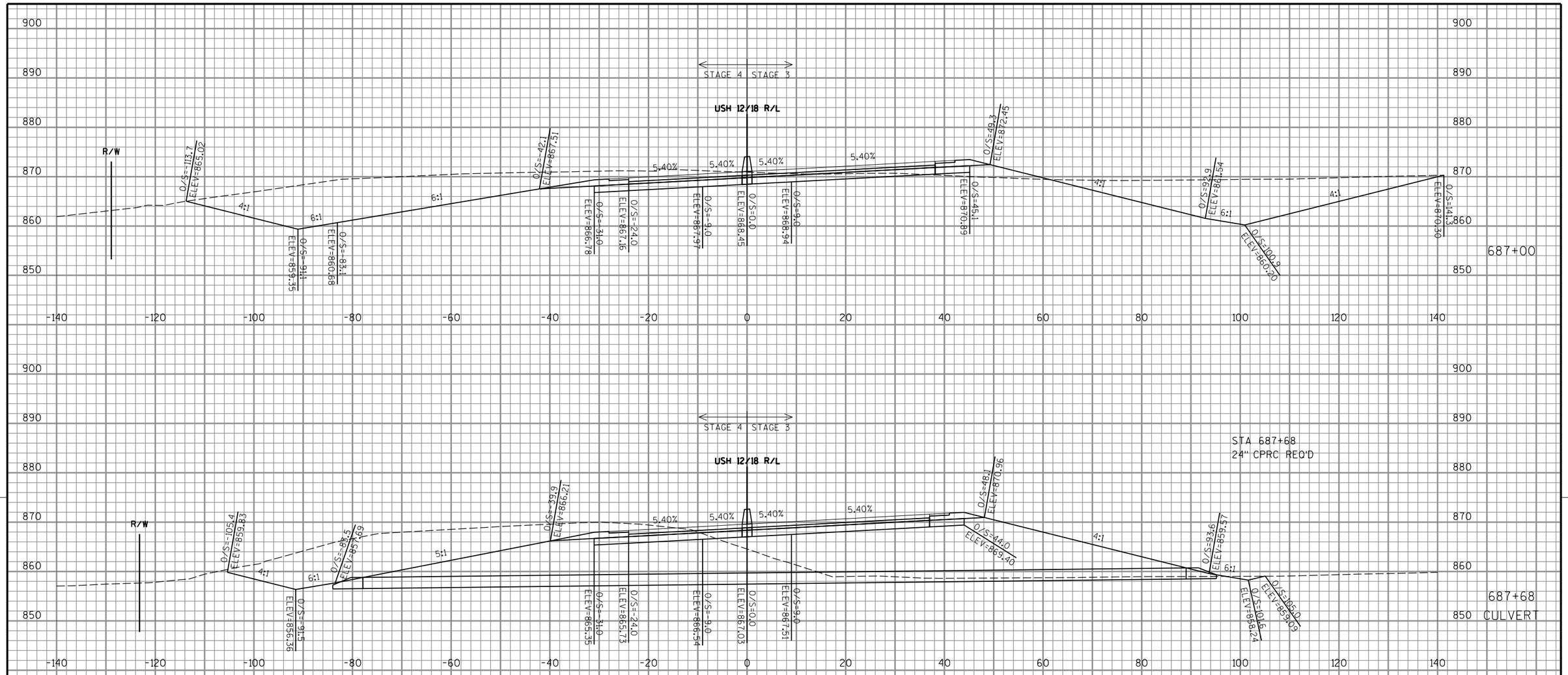
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 749	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

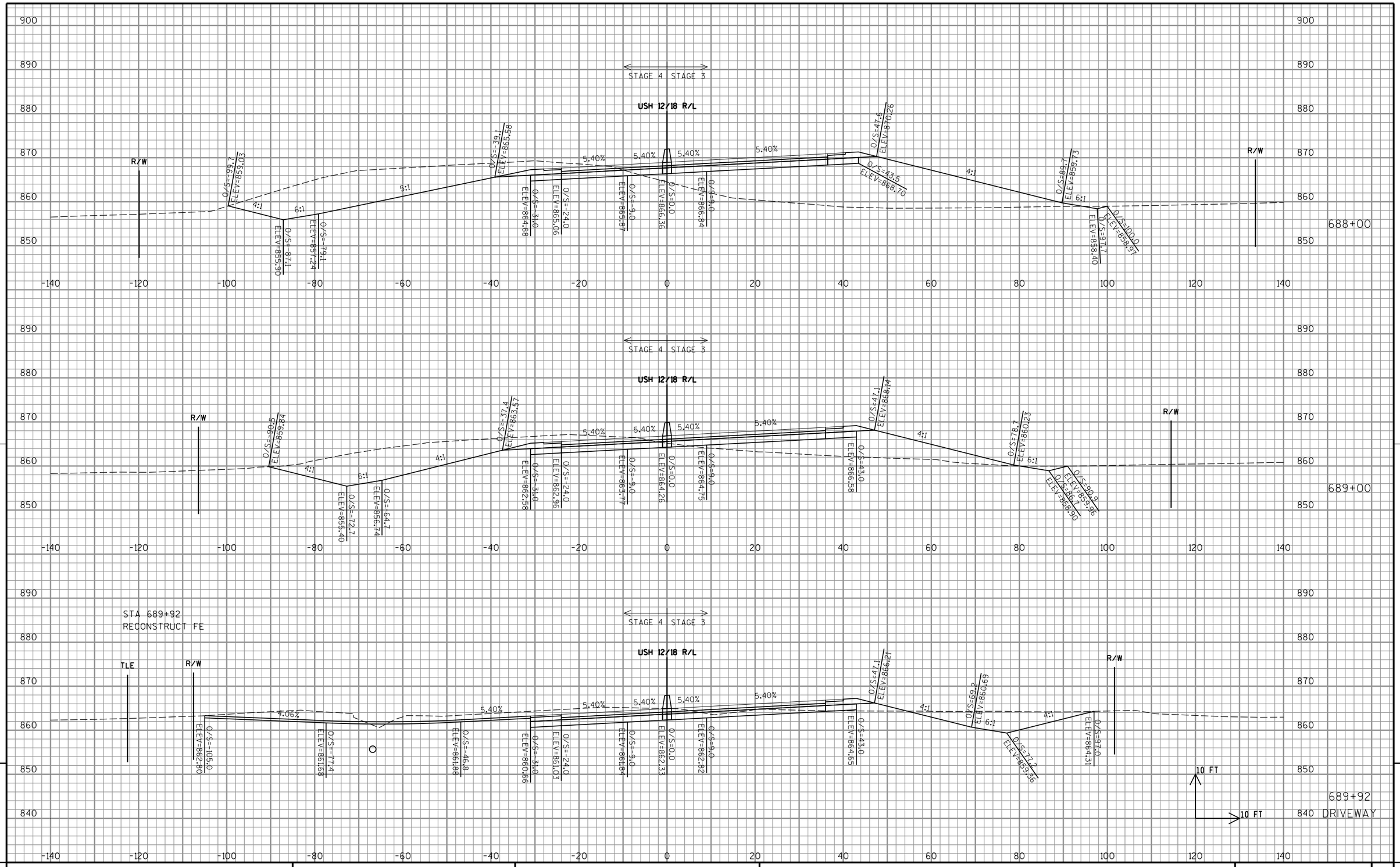
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 750	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



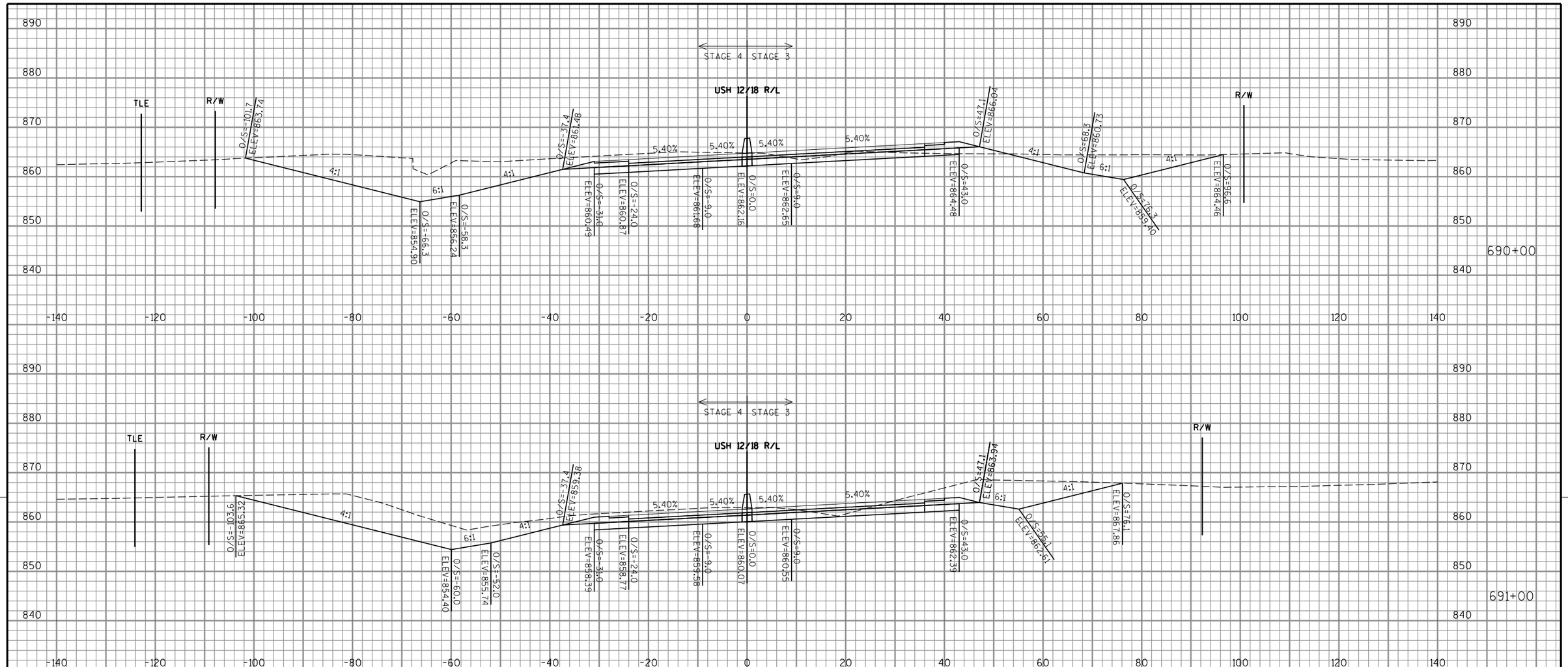
9

9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 751	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

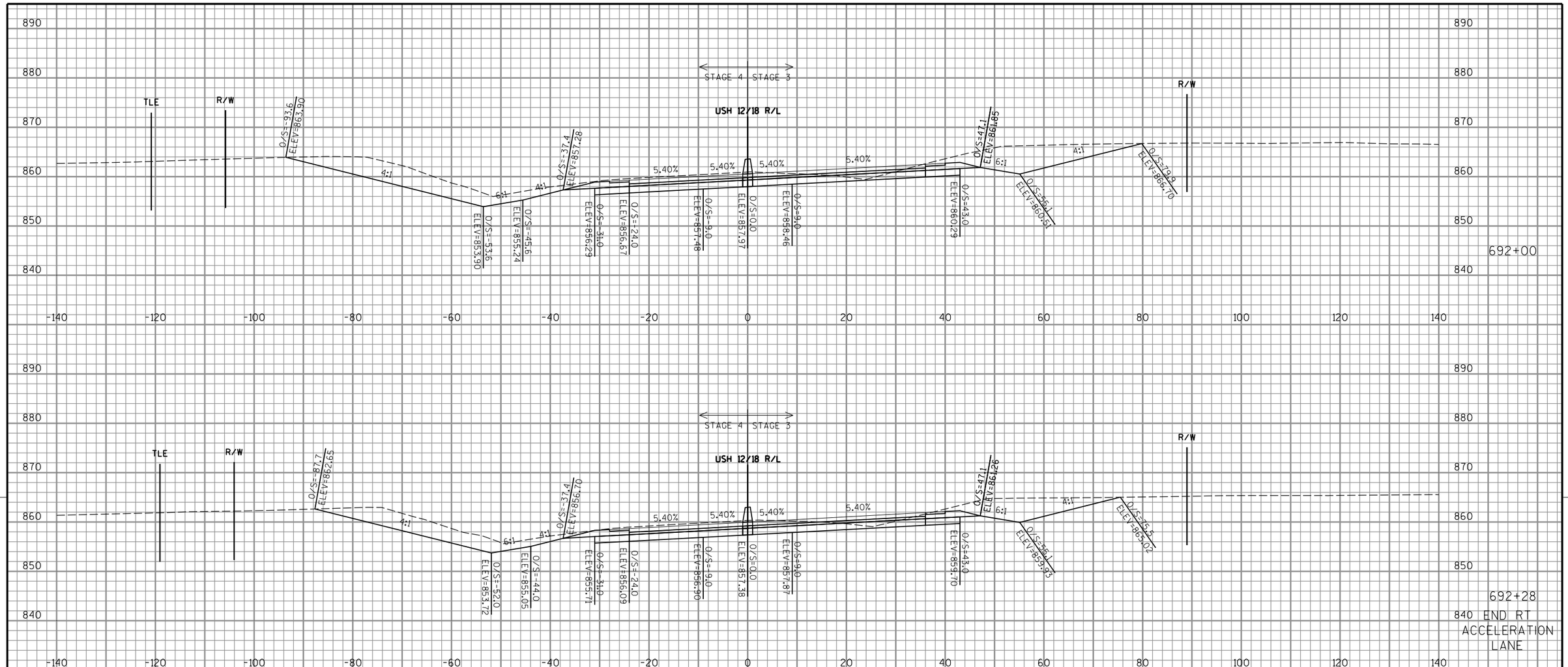
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 752	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

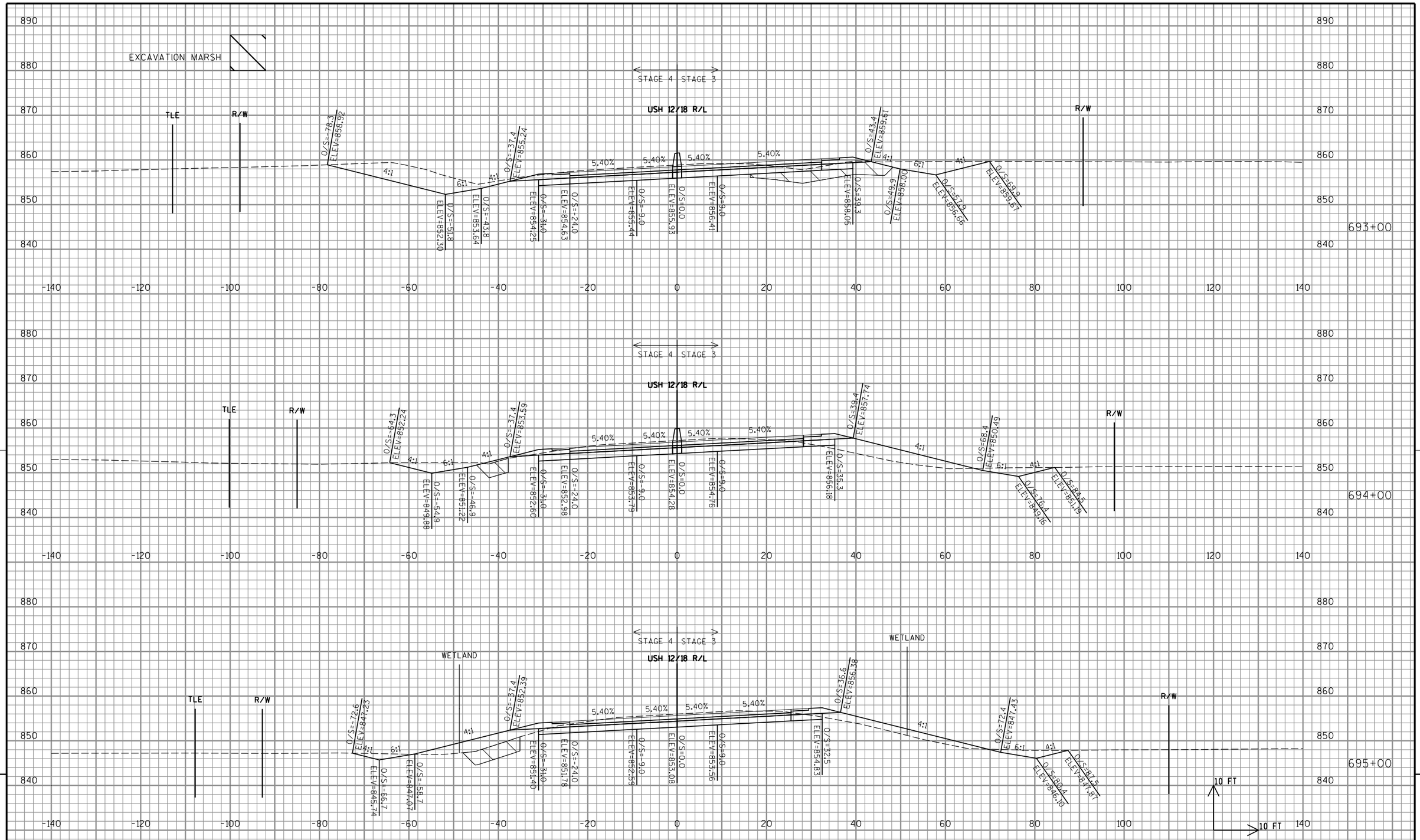
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 753	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



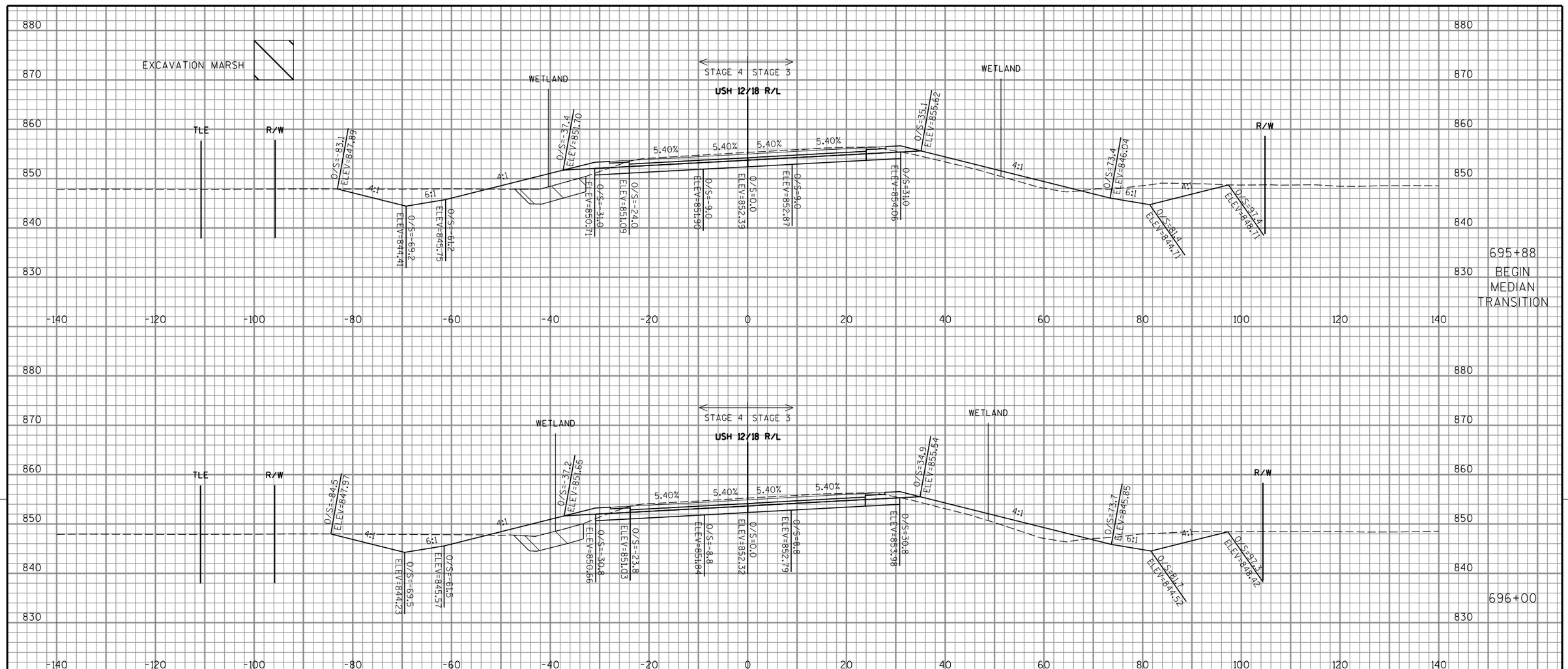
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 754	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

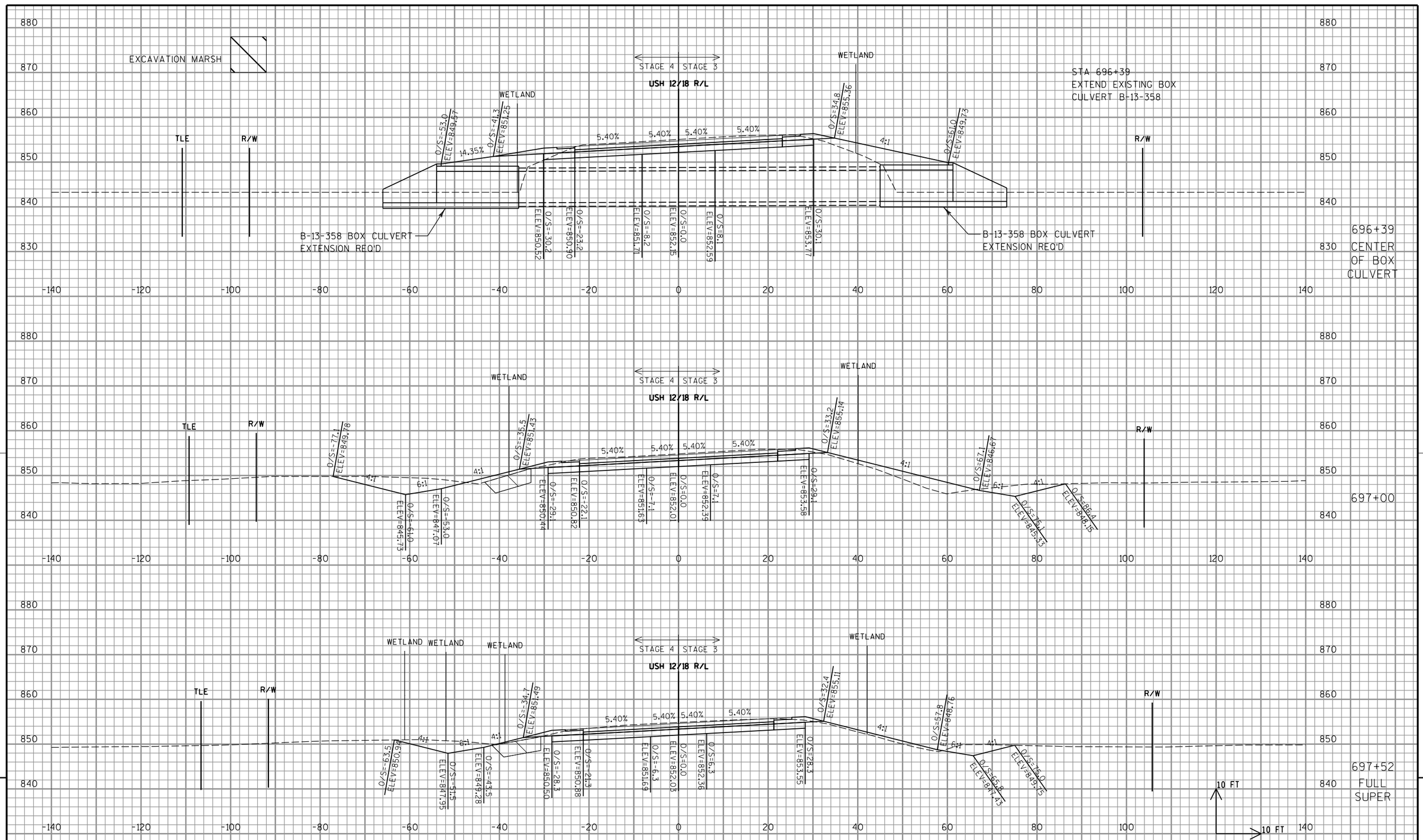
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 755	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

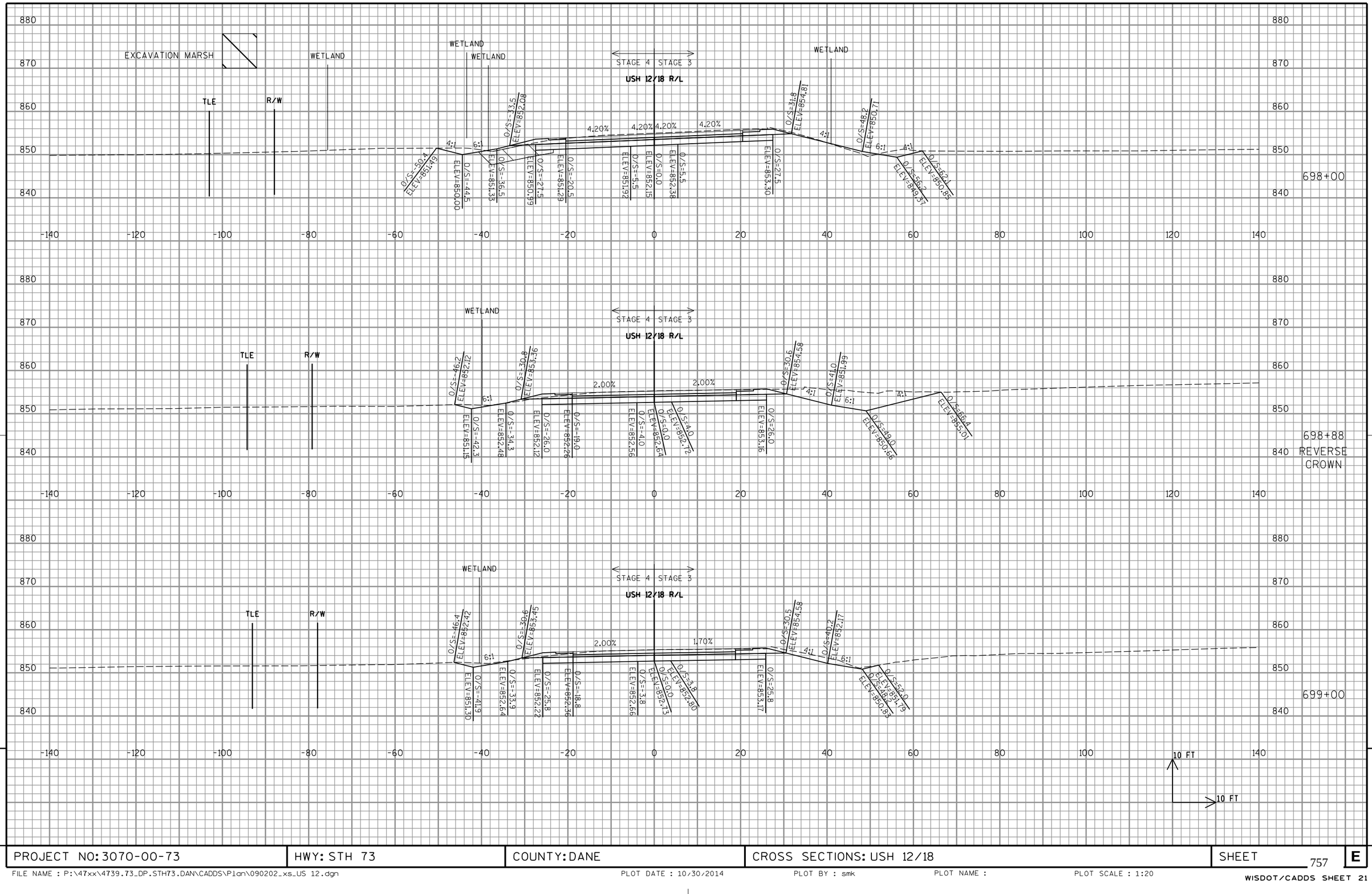
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 756	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



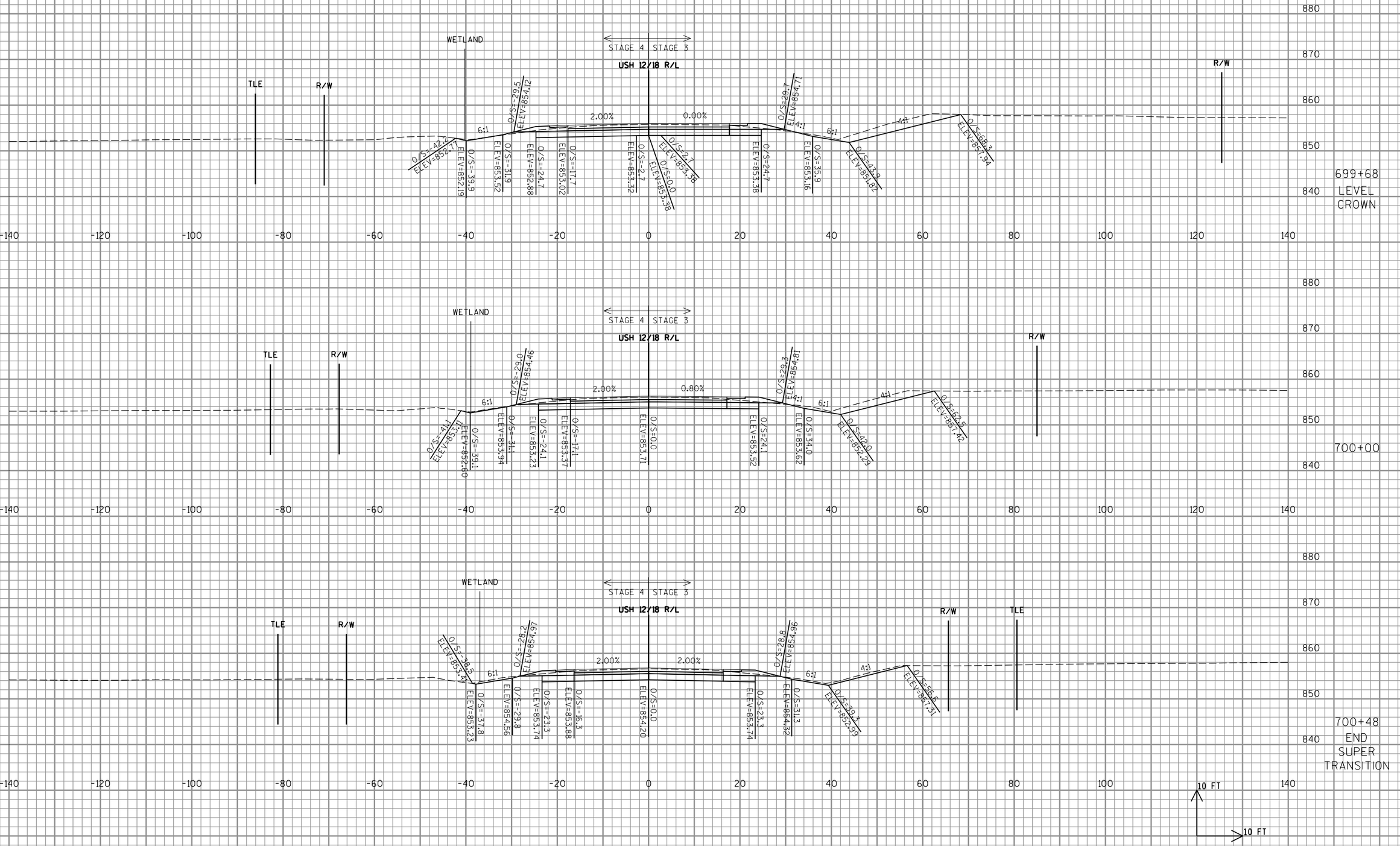
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 757	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

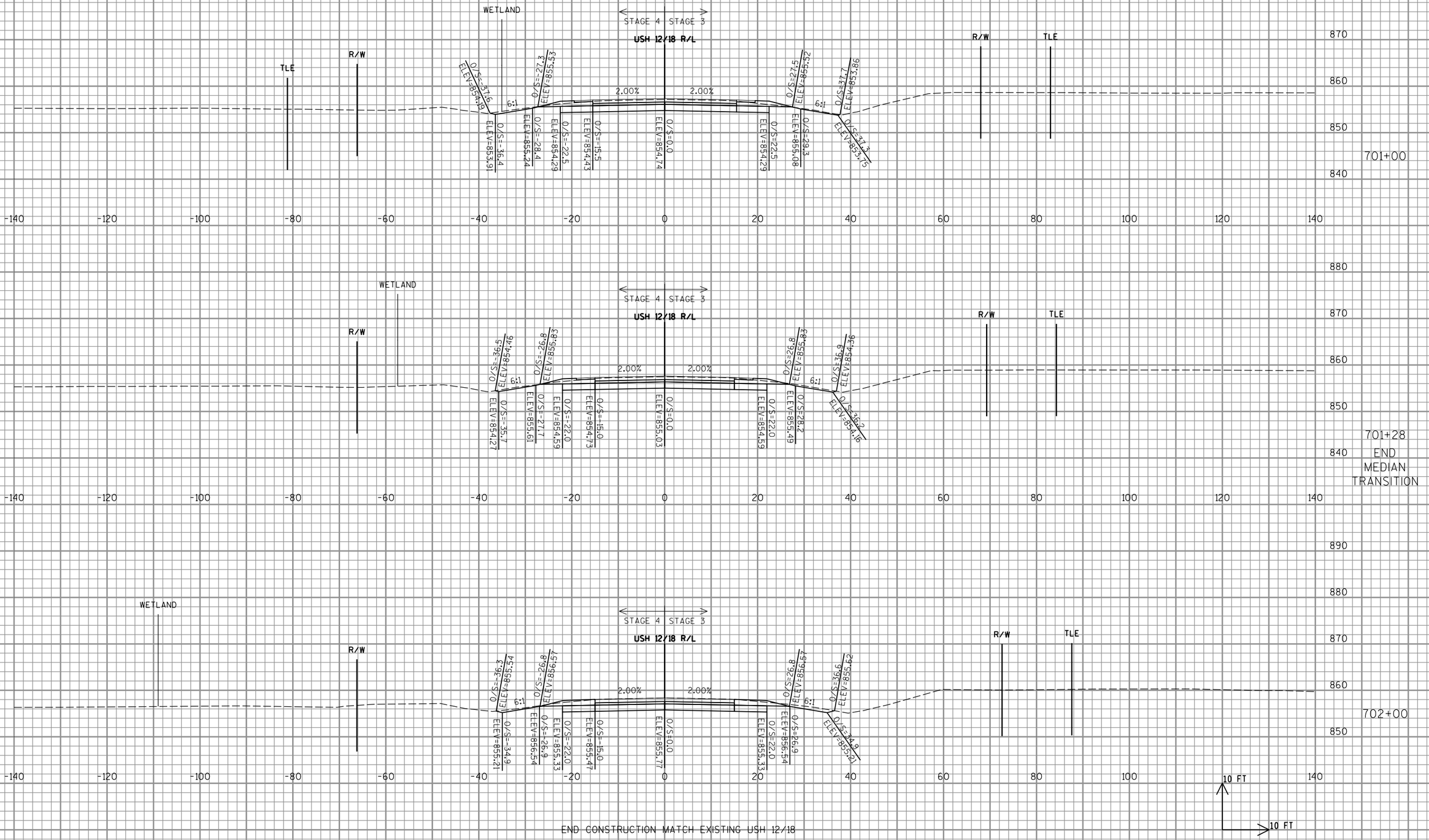
WISDOT/CADDS SHEET 21



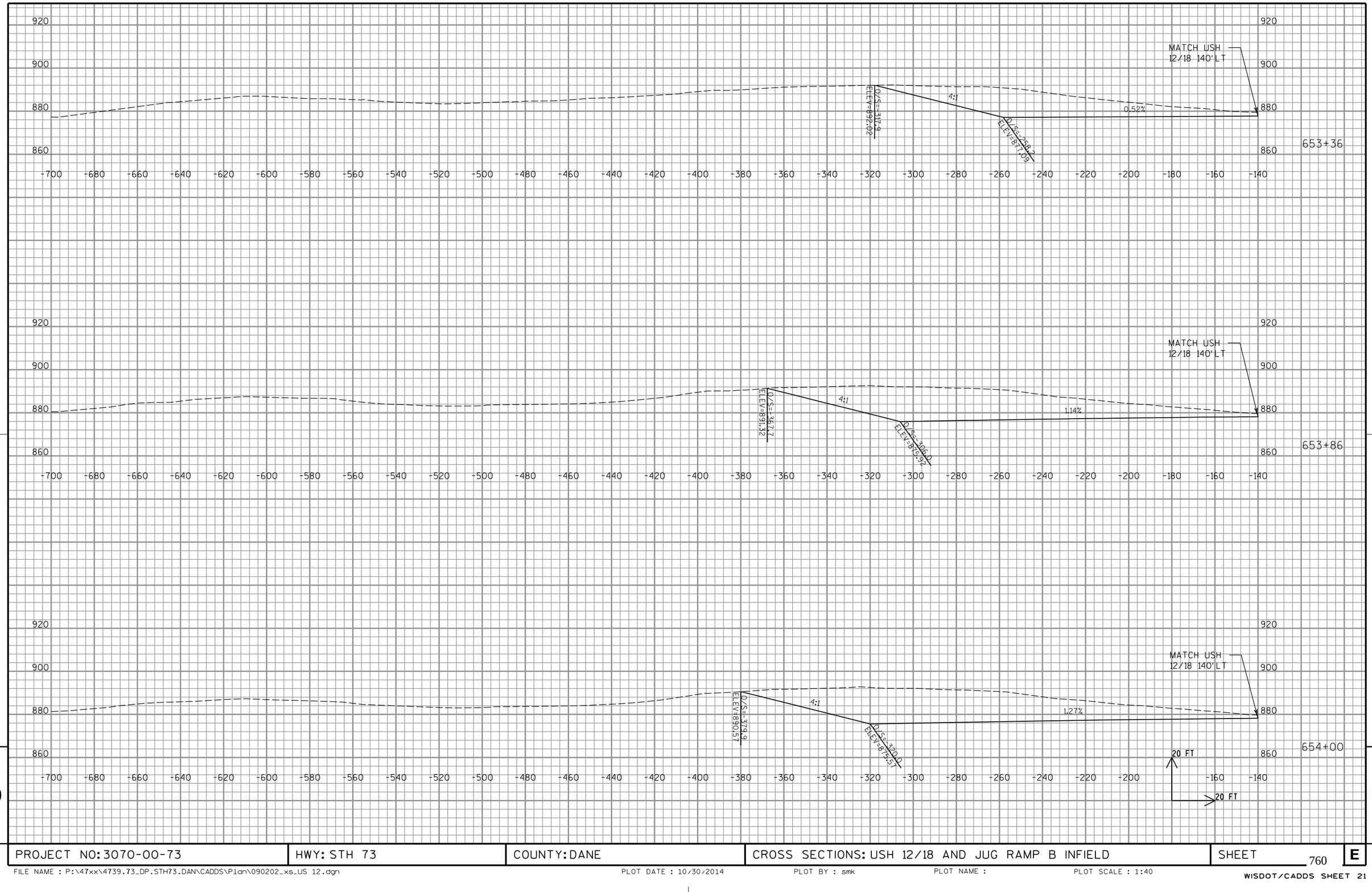
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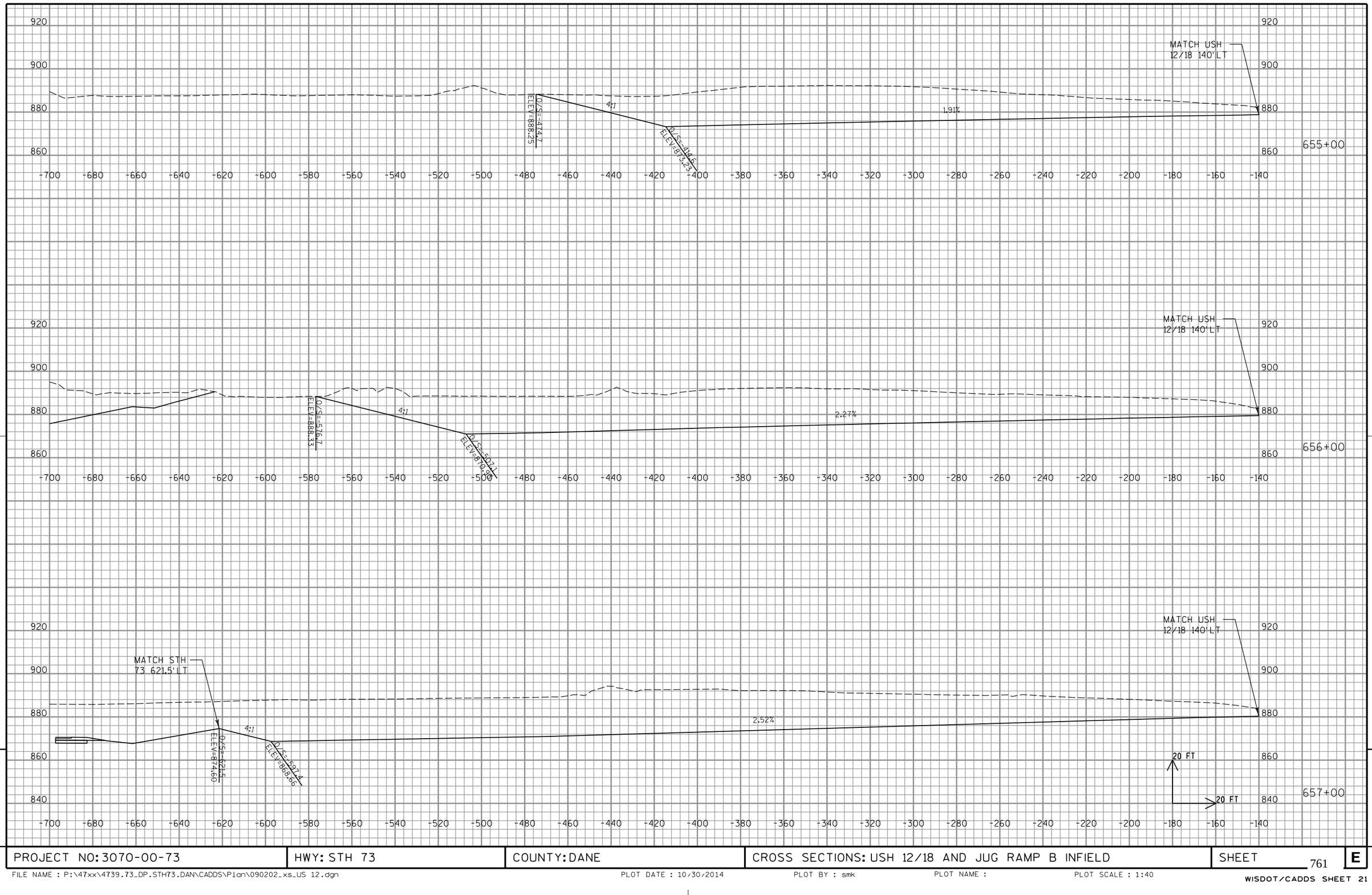
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 758	E



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18	SHEET 759	E



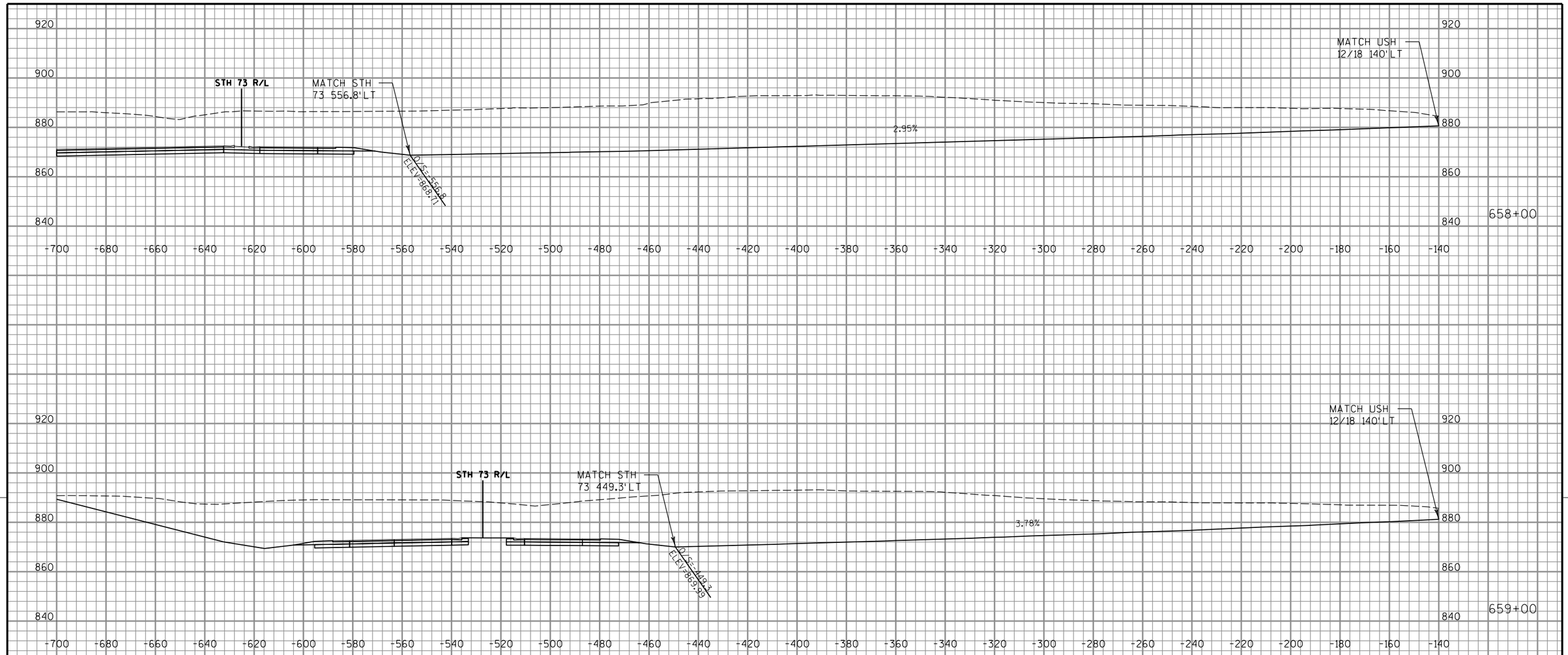
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18 AND JUG RAMP B INFIELD	SHEET 760	E

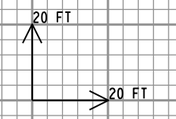


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18 AND JUG RAMP B INFIELD	SHEET 761	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn | PLOT DATE : 10/30/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:40

WISDOT/CADDS SHEET 21



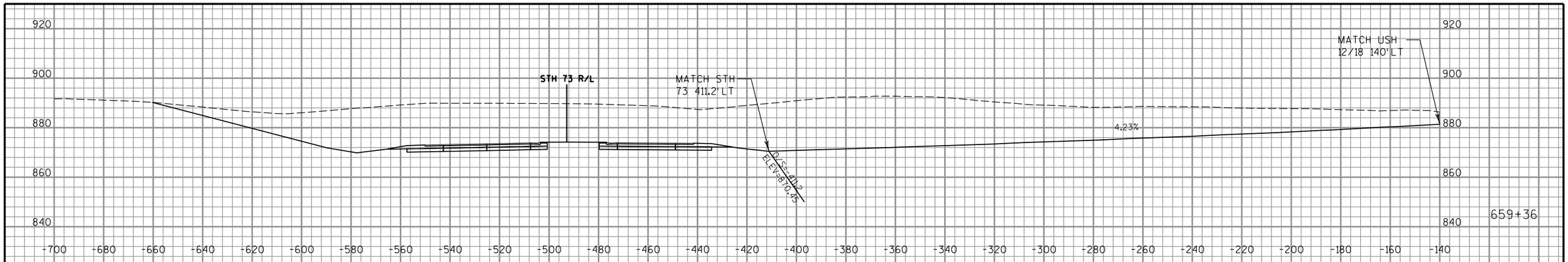


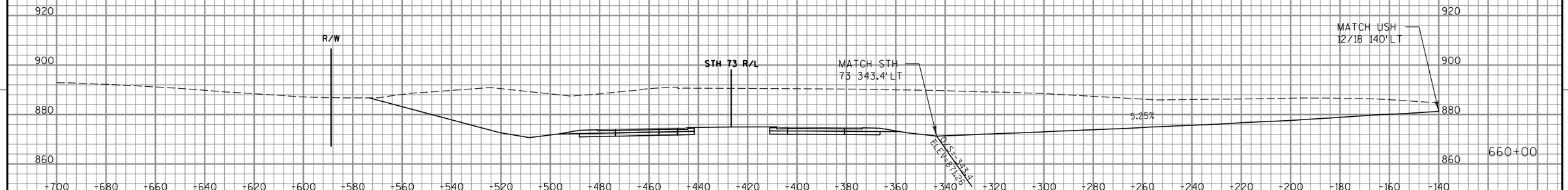
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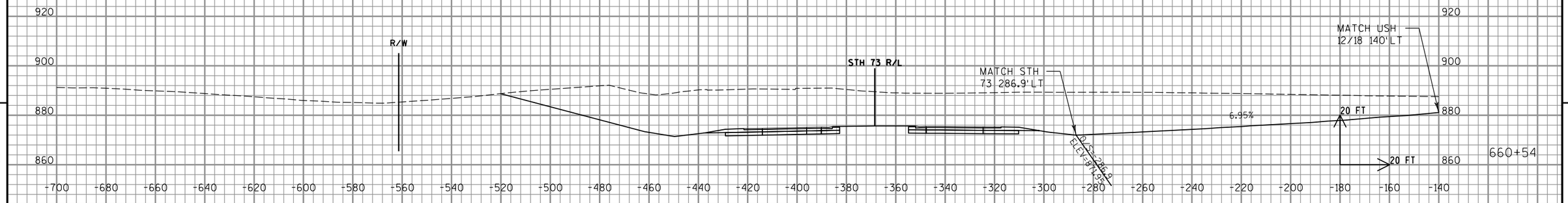
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18 AND JUG RAMP B INFIELD	SHEET 762	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40
WISDOT/CADDS SHEET 21





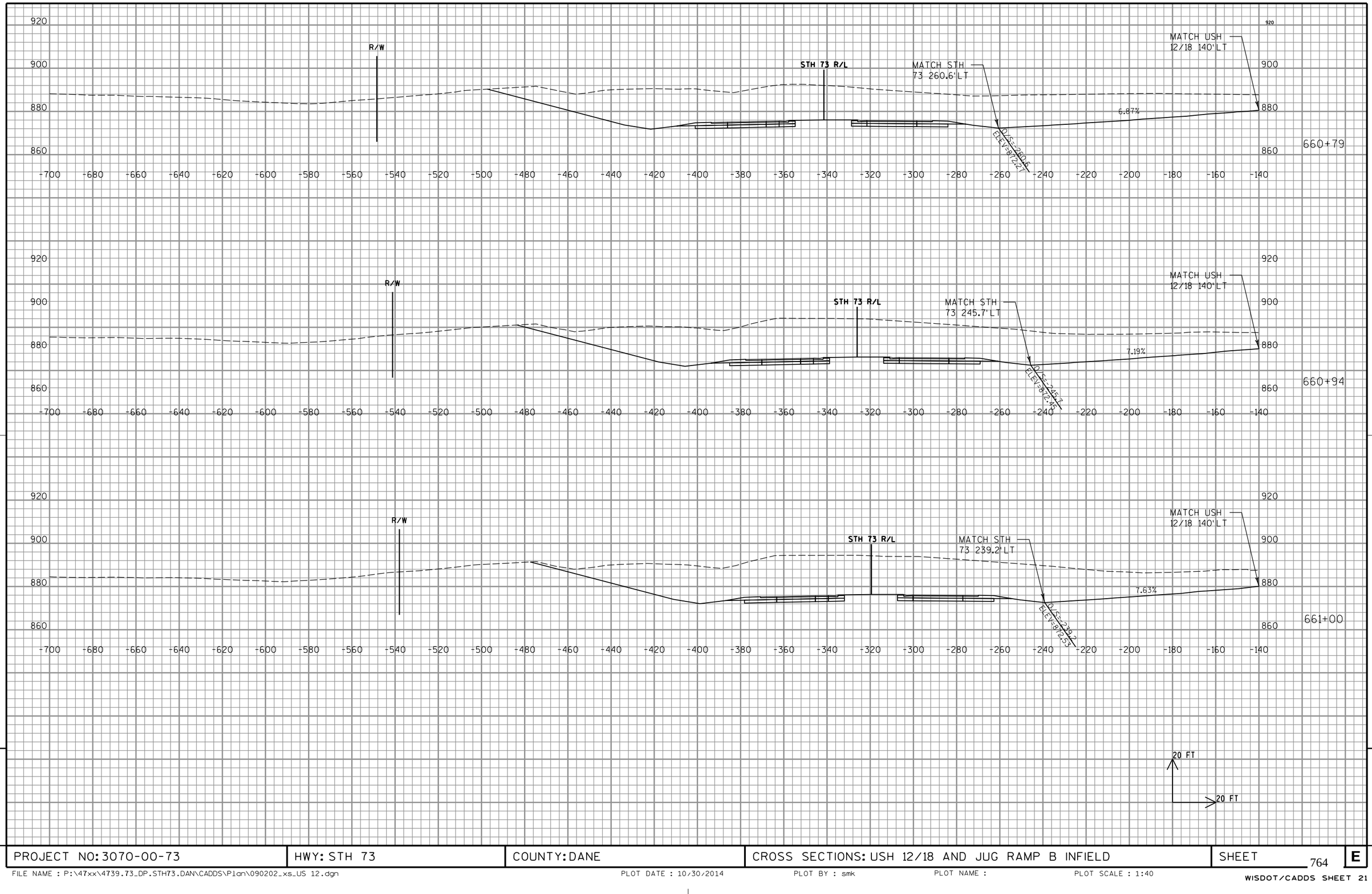


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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18 AND JUG RAMP B INFIELD	SHEET 763	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40



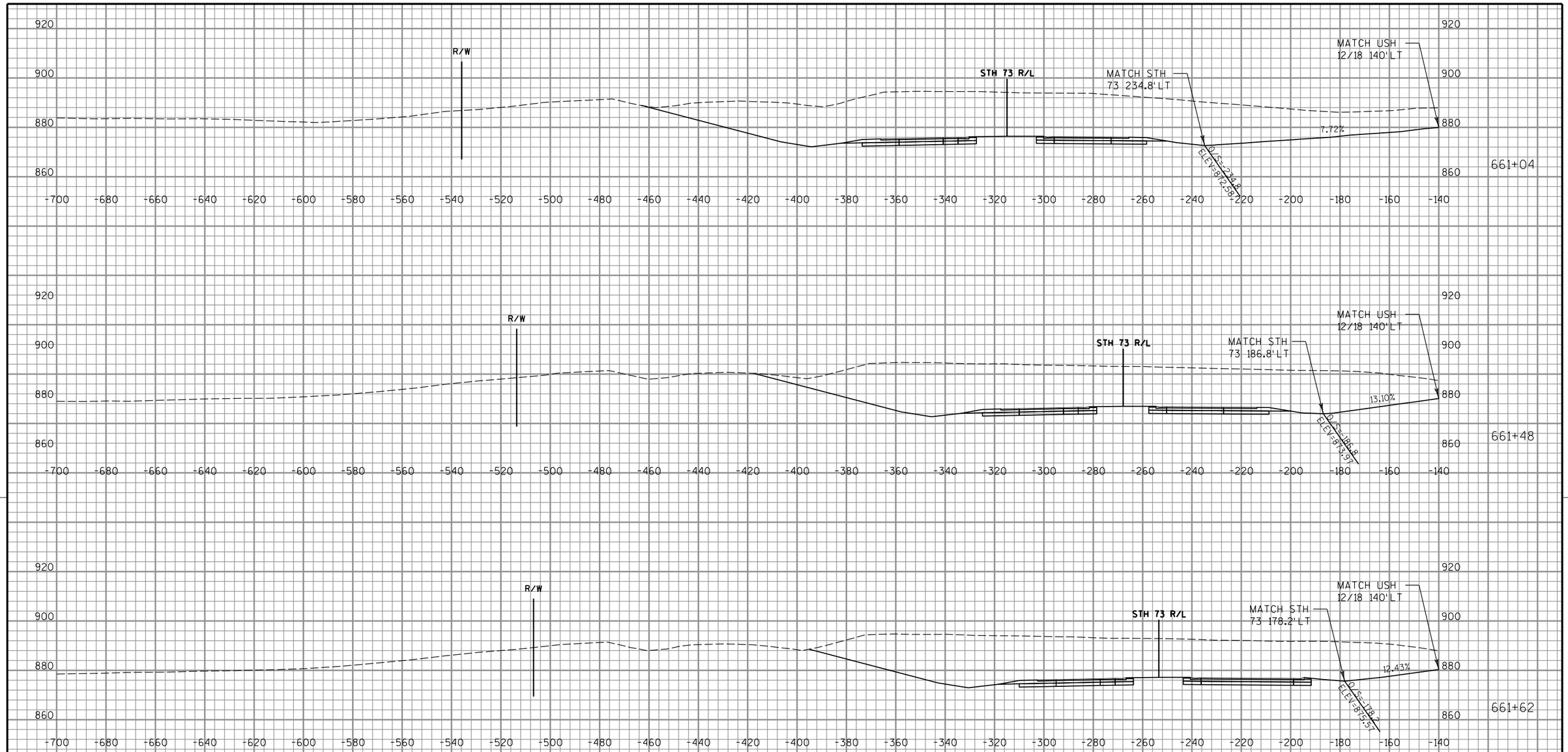
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18 AND JUG RAMP B INFIELD	SHEET 764	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090202_xs_US 12.dgn PLOT DATE : 10/30/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:40

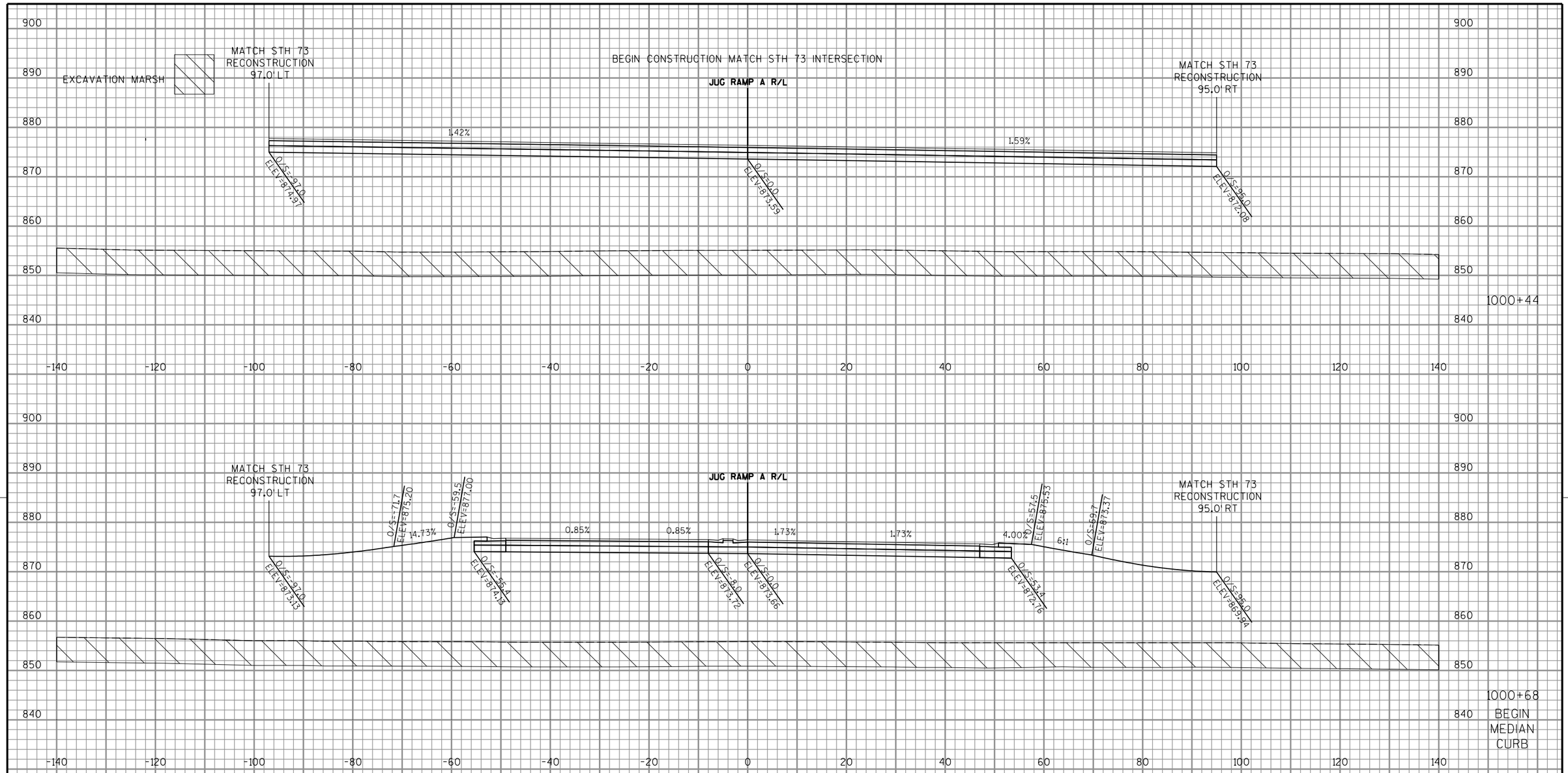
WISDOT/CADDS SHEET 21



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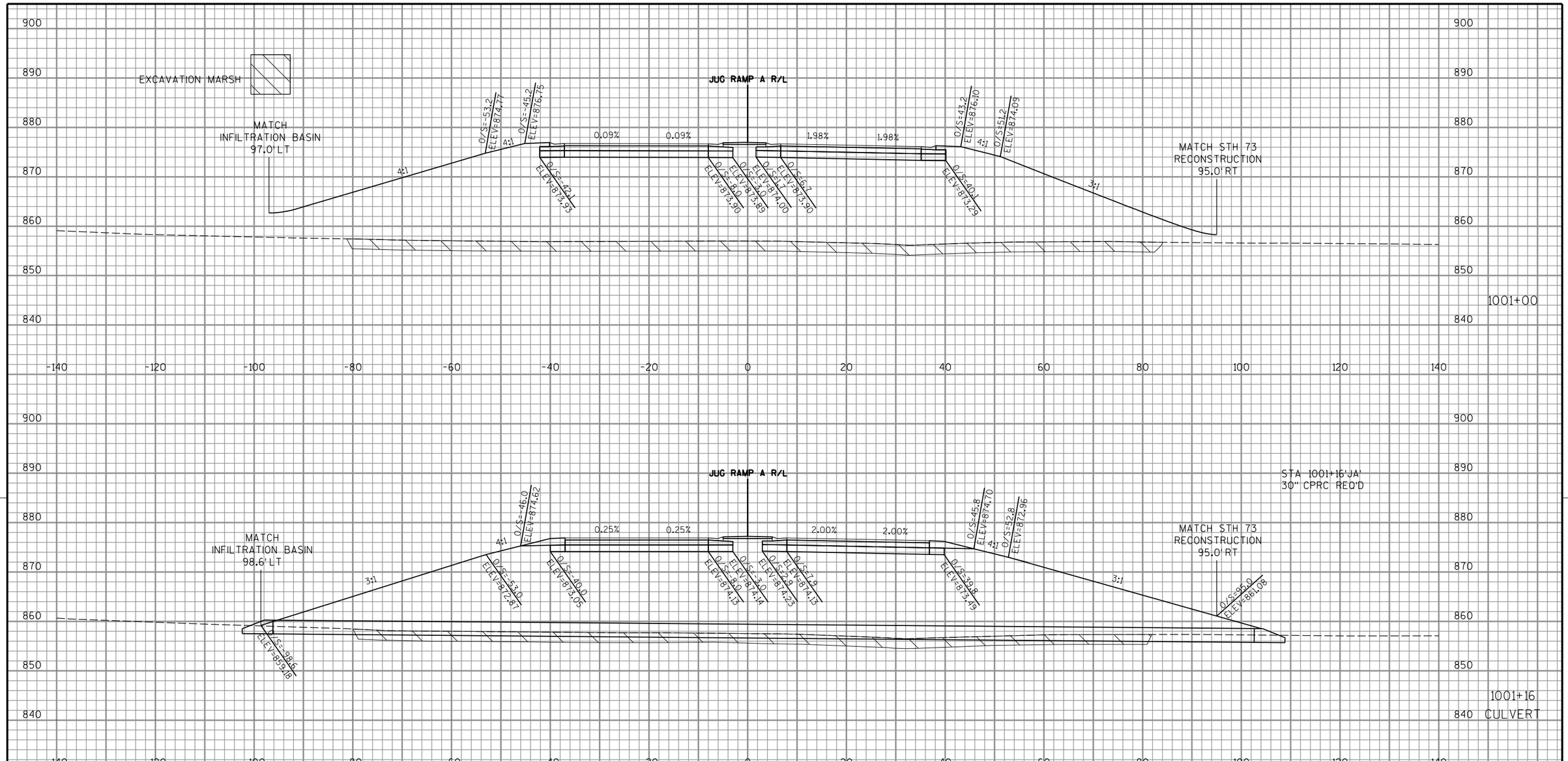
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: USH 12/18 AND JUG RAMP B INFIELD	SHEET 765	E



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP A	SHEET 766	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090203_xs_Jug A.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

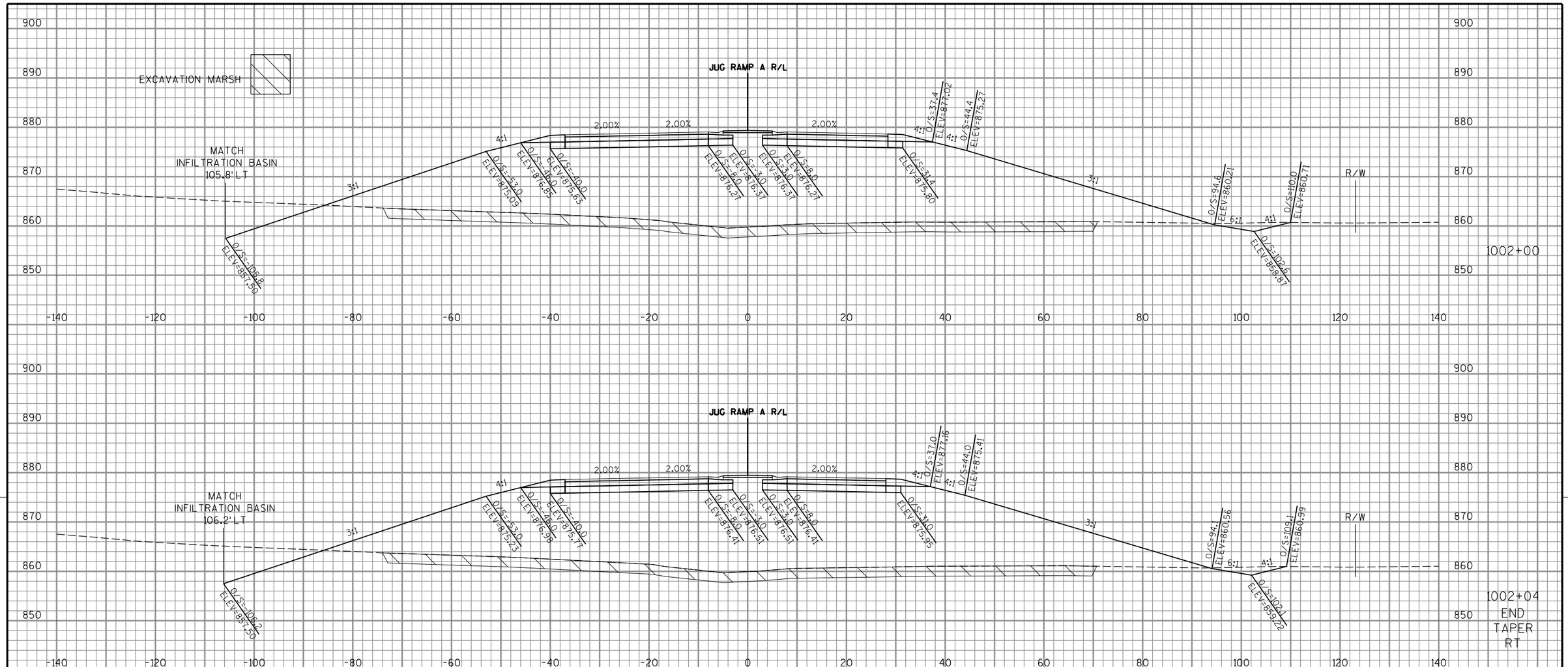
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP A	SHEET 767	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090203_xs_Jug A.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

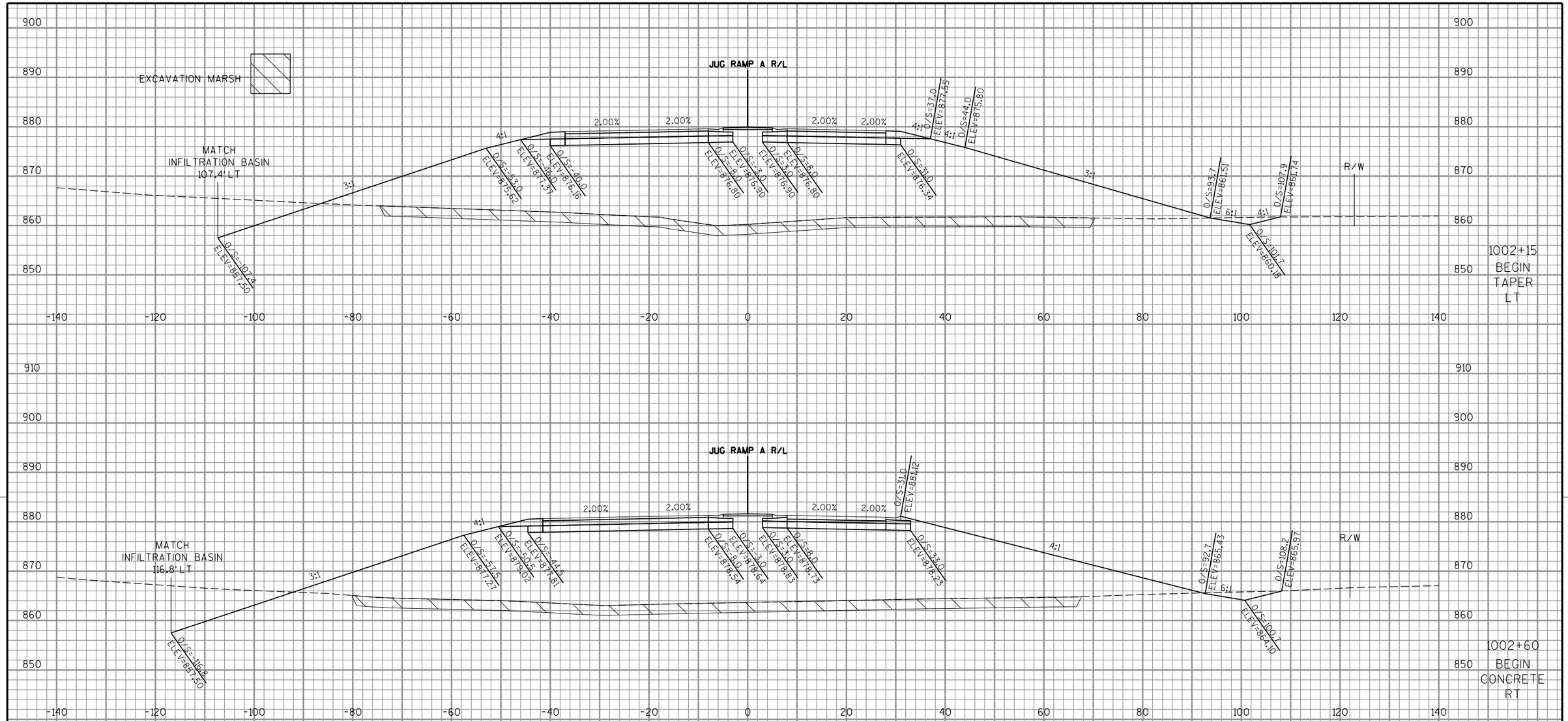
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP A	SHEET 768	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090203_xs_Jug A.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

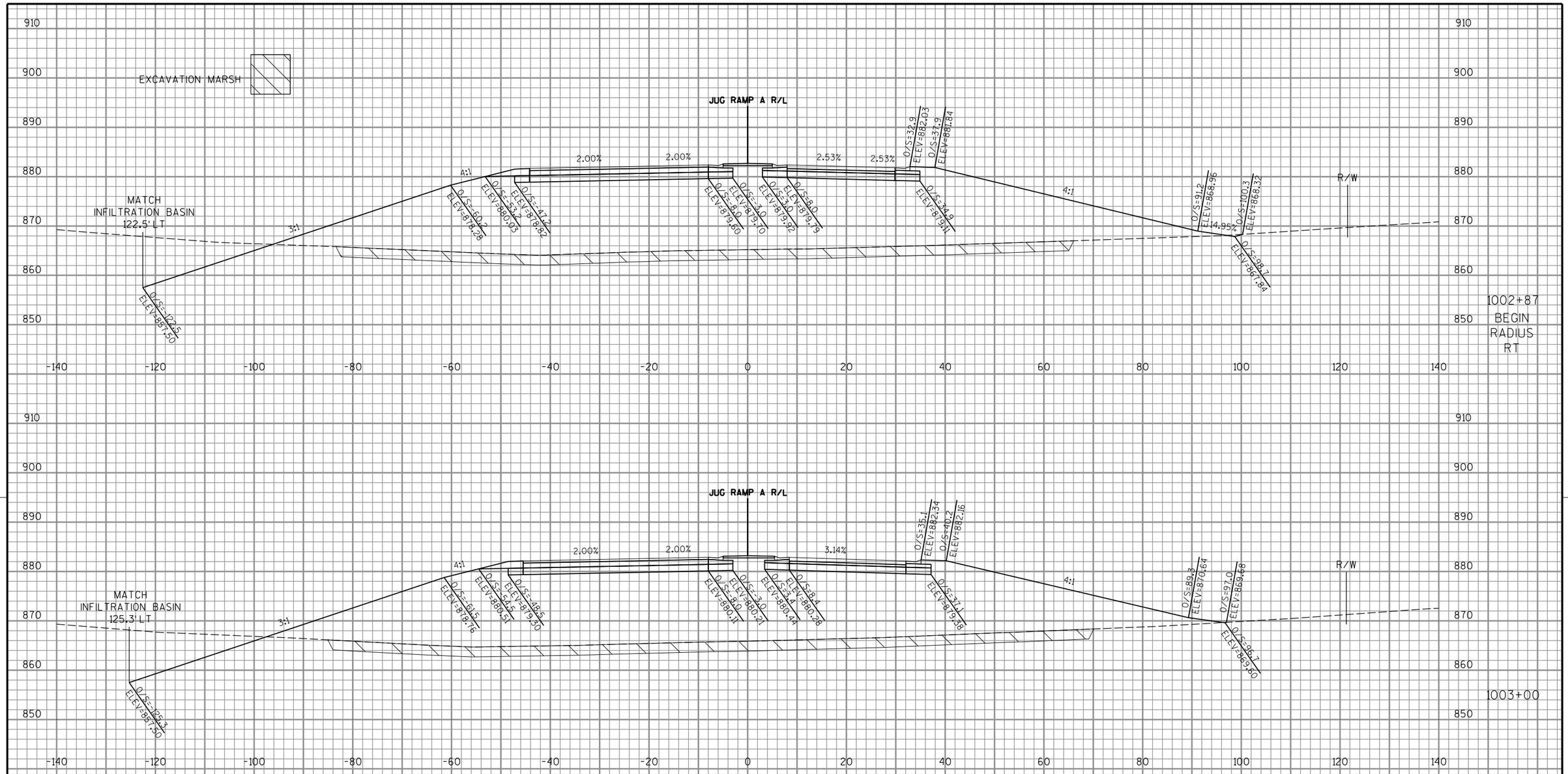
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP A	SHEET 769	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090203_xs_Jug A.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

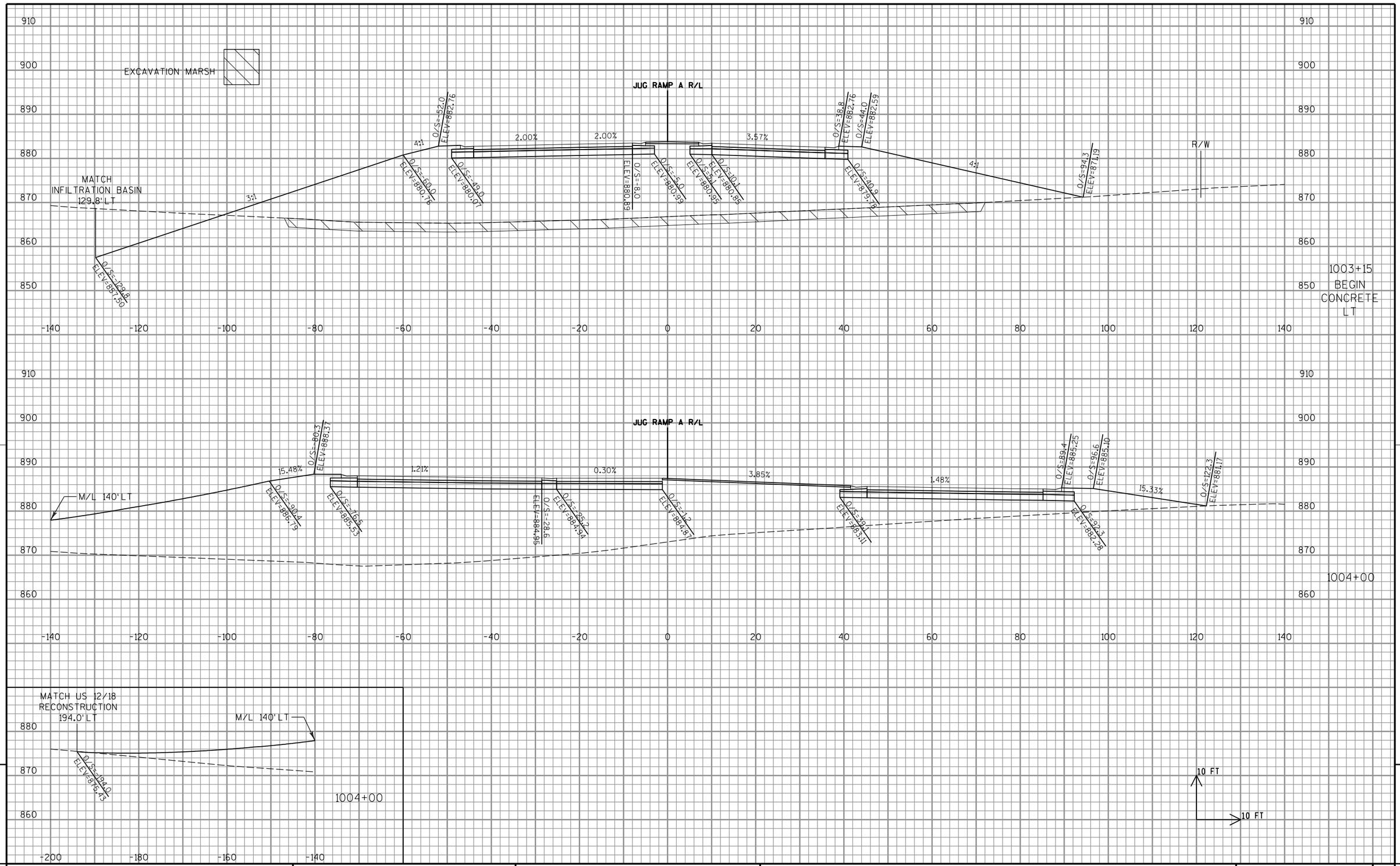
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP A	SHEET 770	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090203_xs_Jug A.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

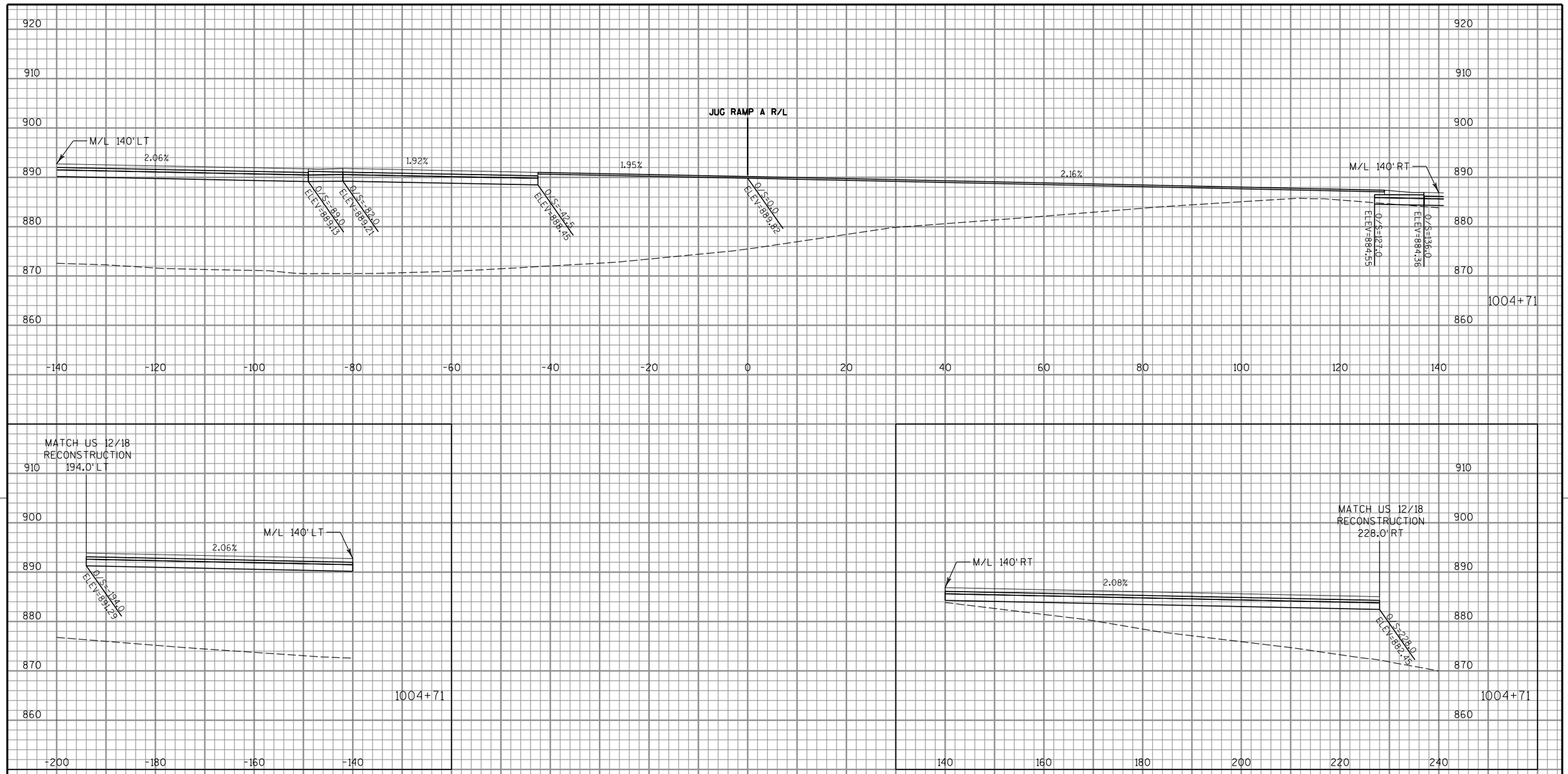
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP A	SHEET 771	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090203_xs_Jug A.dgn | PLOT DATE : 10/27/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



END CONSTRUCTION MATCH US 12/18 INTERSECTION

10 FT

10 FT

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP A	SHEET 772	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090203_xs_Jug A.dgn | PLOT DATE : 10/27/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

BEGIN CONSTRUCTION MATCH USH 12/18 INTERSECTION

MATCH USH 12/18
RECONSTRUCTION
0.0' LT

JUG RAMP B R/L

MATCH USH 12/18
M/L 100' RT
1.78%
O/S=138.2
ELEV=884.00

1.93%
1.78%
O/S=37.2
ELEV=882.20

2000+32

M/L -190' LT
1.41%
O/S=208.8
ELEV=874.15

M/L 100' RT
MATCH USH 12/18
0.37%
O/S=140.5
ELEV=877.90

JUG RAMP B R/L

M/L -190' LT
7.16%
O/S=178.4
ELEV=873.70
11.65%
O/S=156.2
ELEV=875.29
O/S=118.0
ELEV=879.74
1.49%
2.23%
O/S=112.8
ELEV=876.91
3.78%
O/S=42.2
ELEV=878.45
2.00%
O/S=3.0
ELEV=880.27
1.87%
5:1
O/S=50.4
ELEV=882.21
O/S=47.1
ELEV=879.49
11.40%
O/S=267.1
ELEV=878.98
M/L 100' RT
0.37%
O/S=78.6
ELEV=877.67

2000+98

BEGIN RADIUS RT

M/L 100' RT
MATCH USH 12/18
0.36%
O/S=140.5
ELEV=877.87

JUG RAMP B R/L

3.97%
O/S=186.6
ELEV=874.37
7.66%
O/S=171.3
ELEV=873.80
11.96%
O/S=154.0
ELEV=875.36
O/S=114.6
ELEV=879.70
1.60%
2.31%
O/S=109.6
ELEV=876.87
O/S=40.9
ELEV=878.43
2.00%
O/S=3.0
ELEV=880.27
2.59%
5:1
O/S=49.3
ELEV=882.73
O/S=46.0
ELEV=879.40
12.11%
O/S=64.9
ELEV=878.96
M/L 100' RT
0.36%
O/S=75.8
ELEV=877.65
10 FT
10 FT

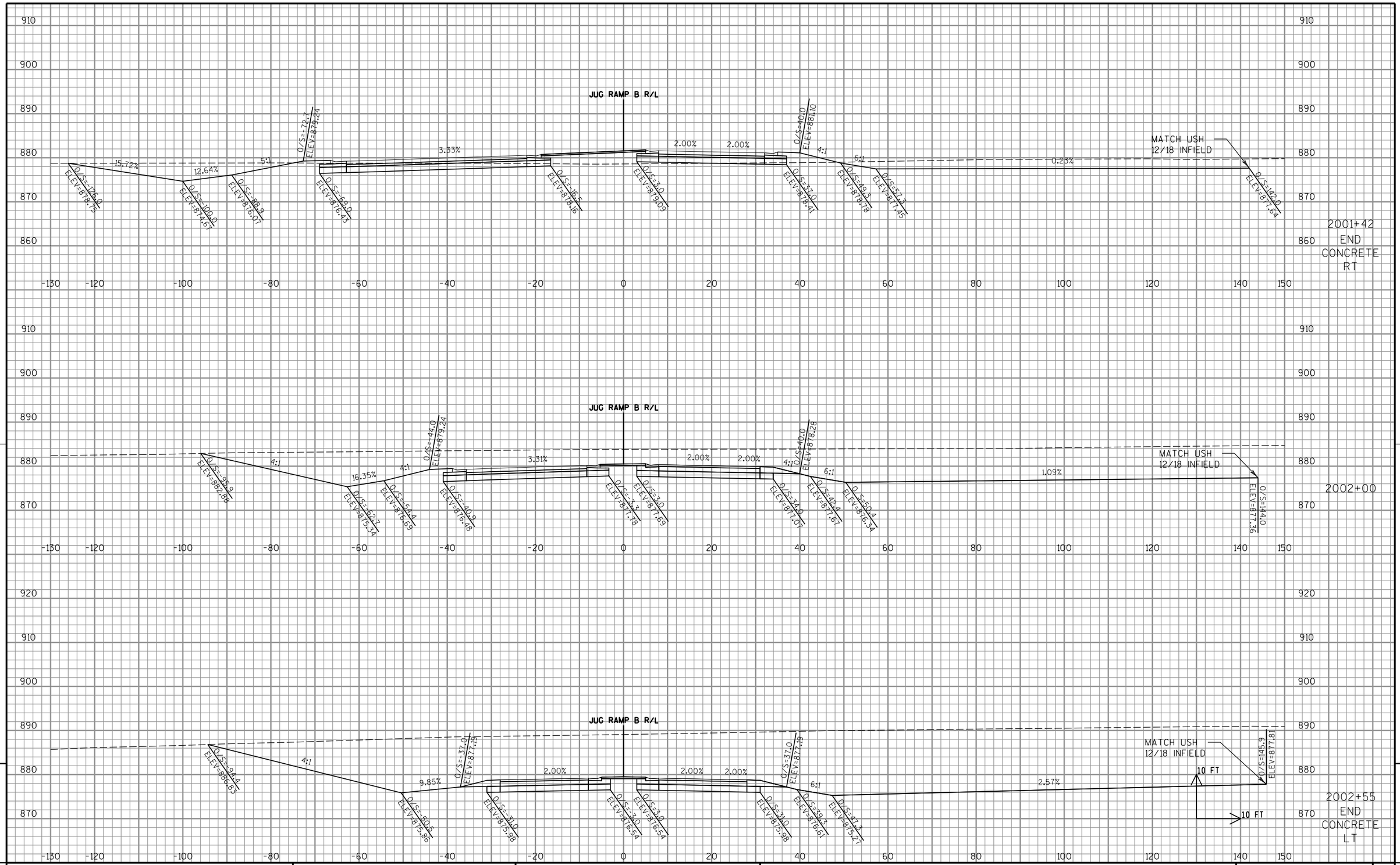
2001+00

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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 773	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn | PLOT DATE : 10/27/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

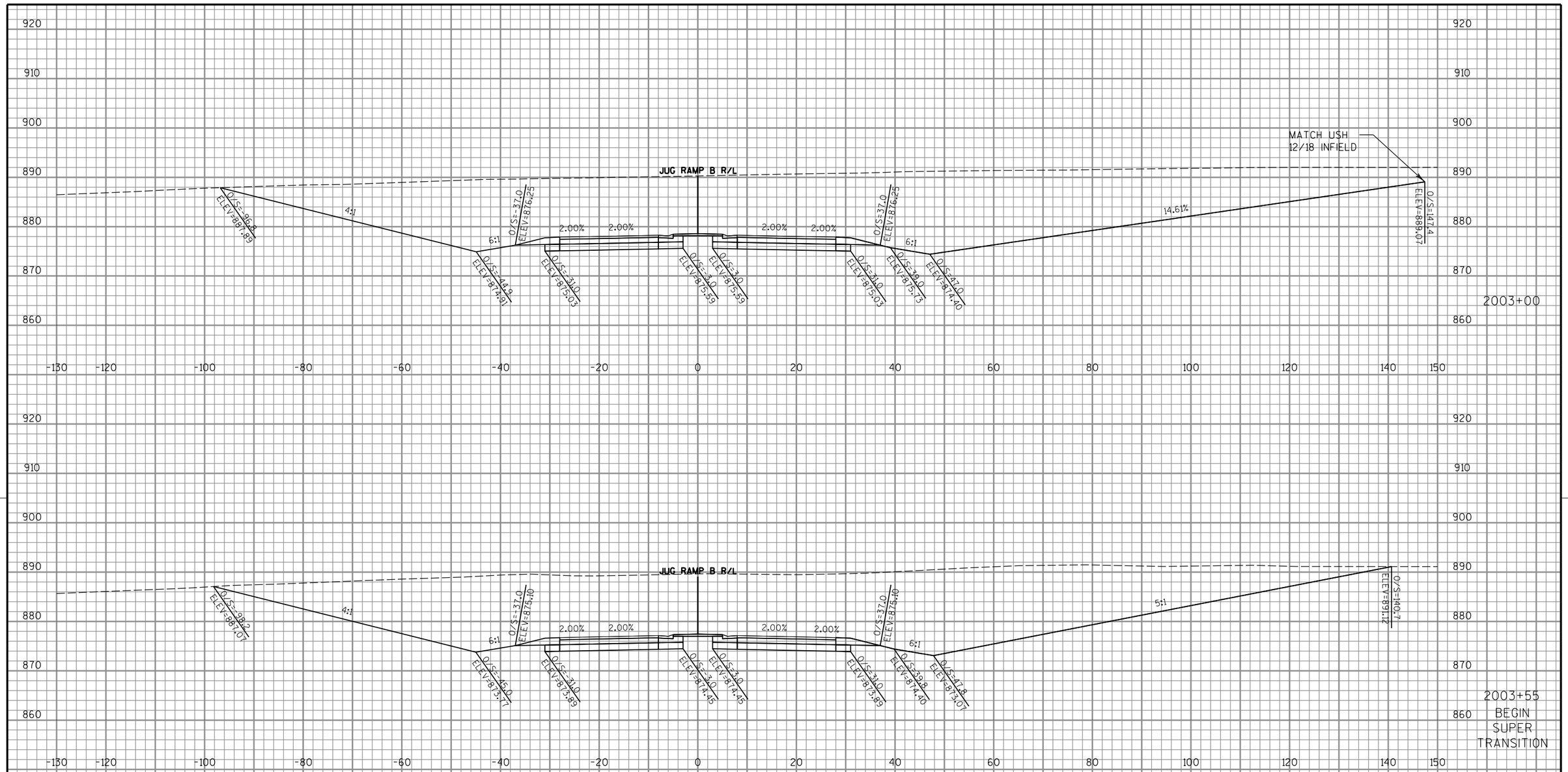
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 774	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



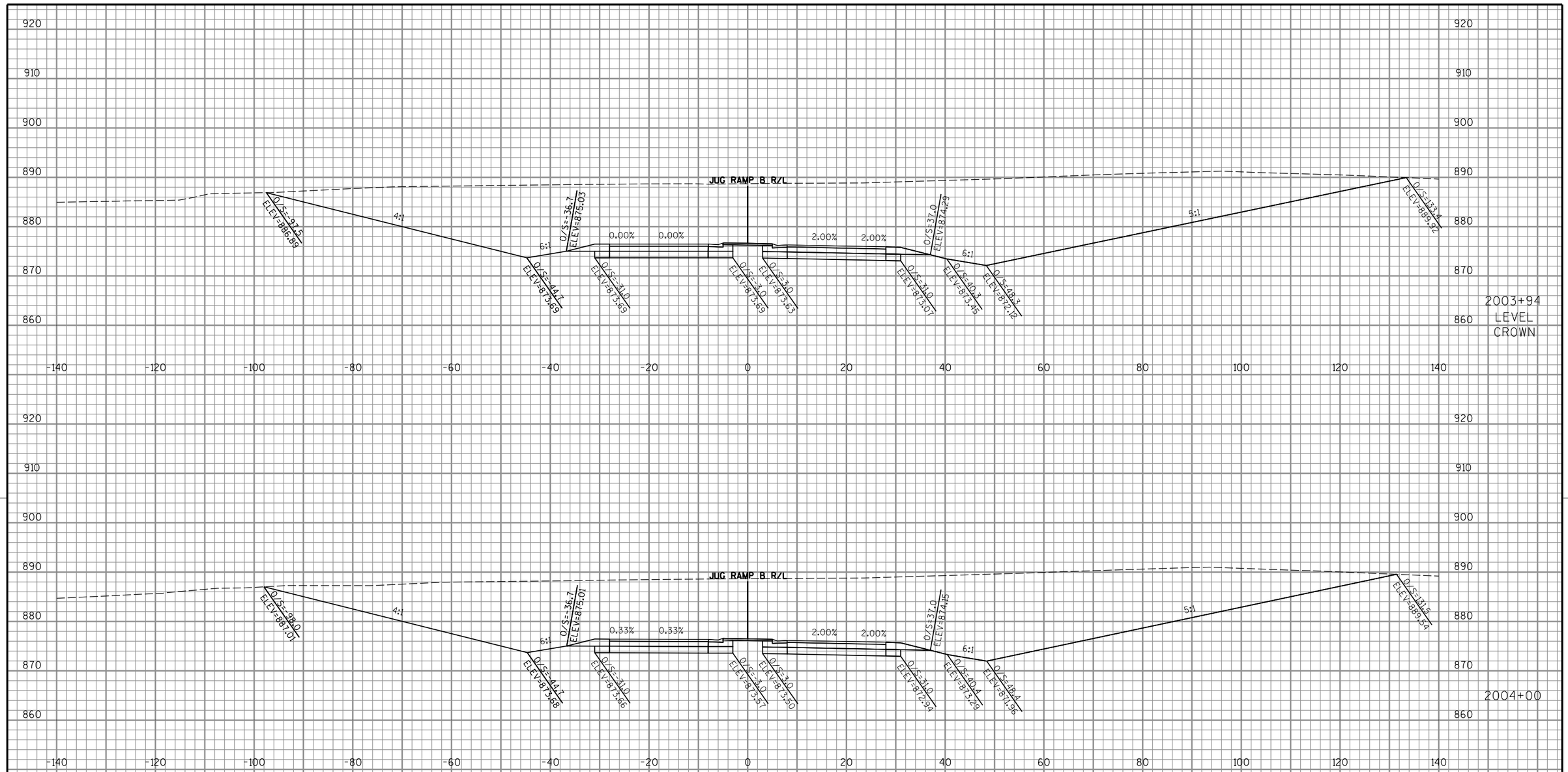
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 775	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

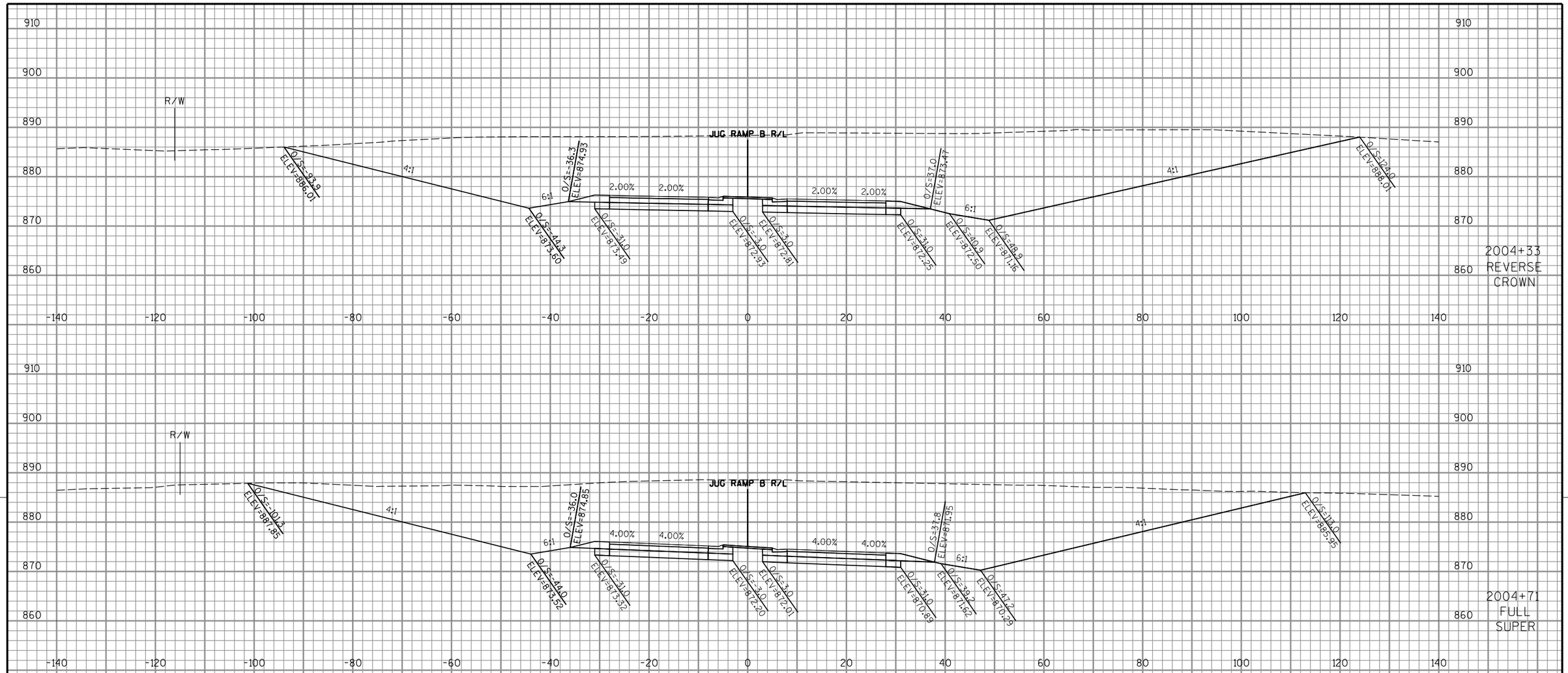
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 776	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn | PLOT DATE : 10/27/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

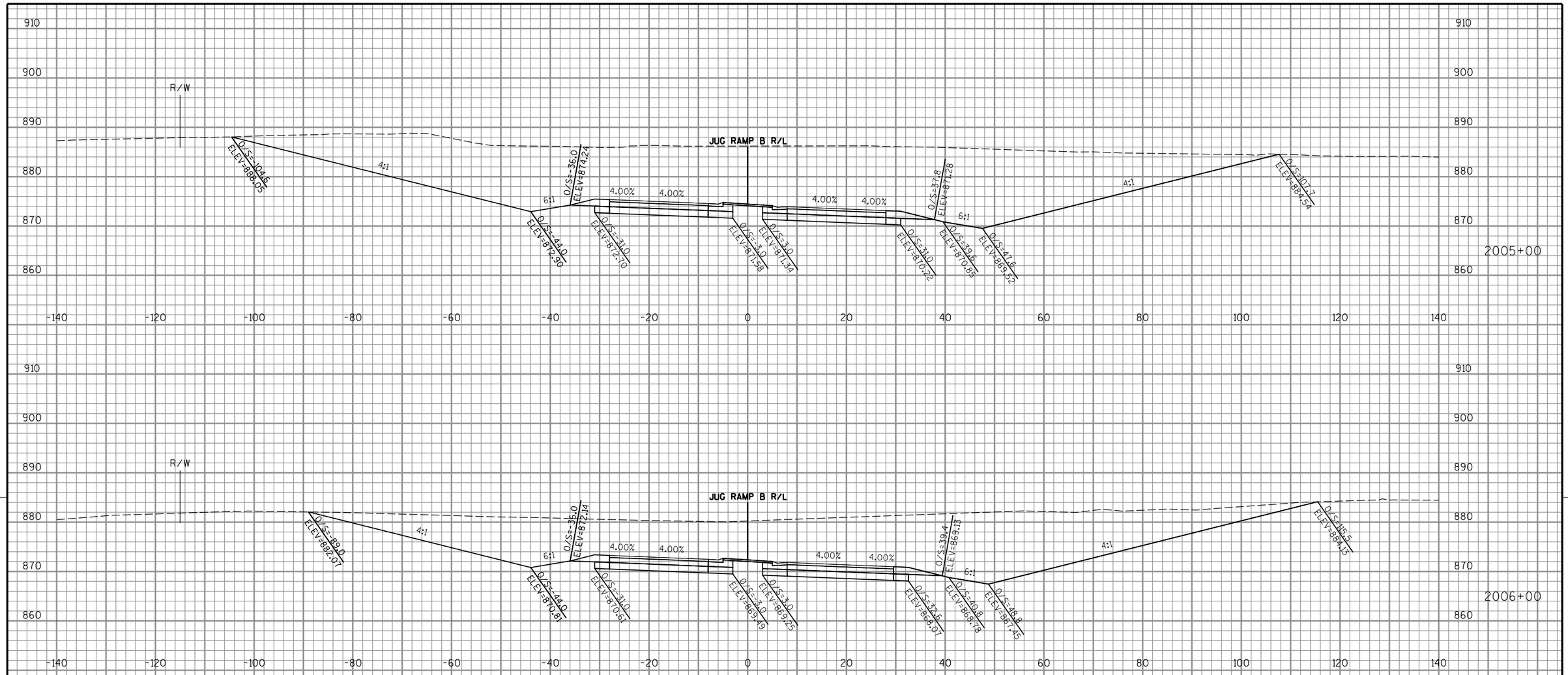
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 777	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

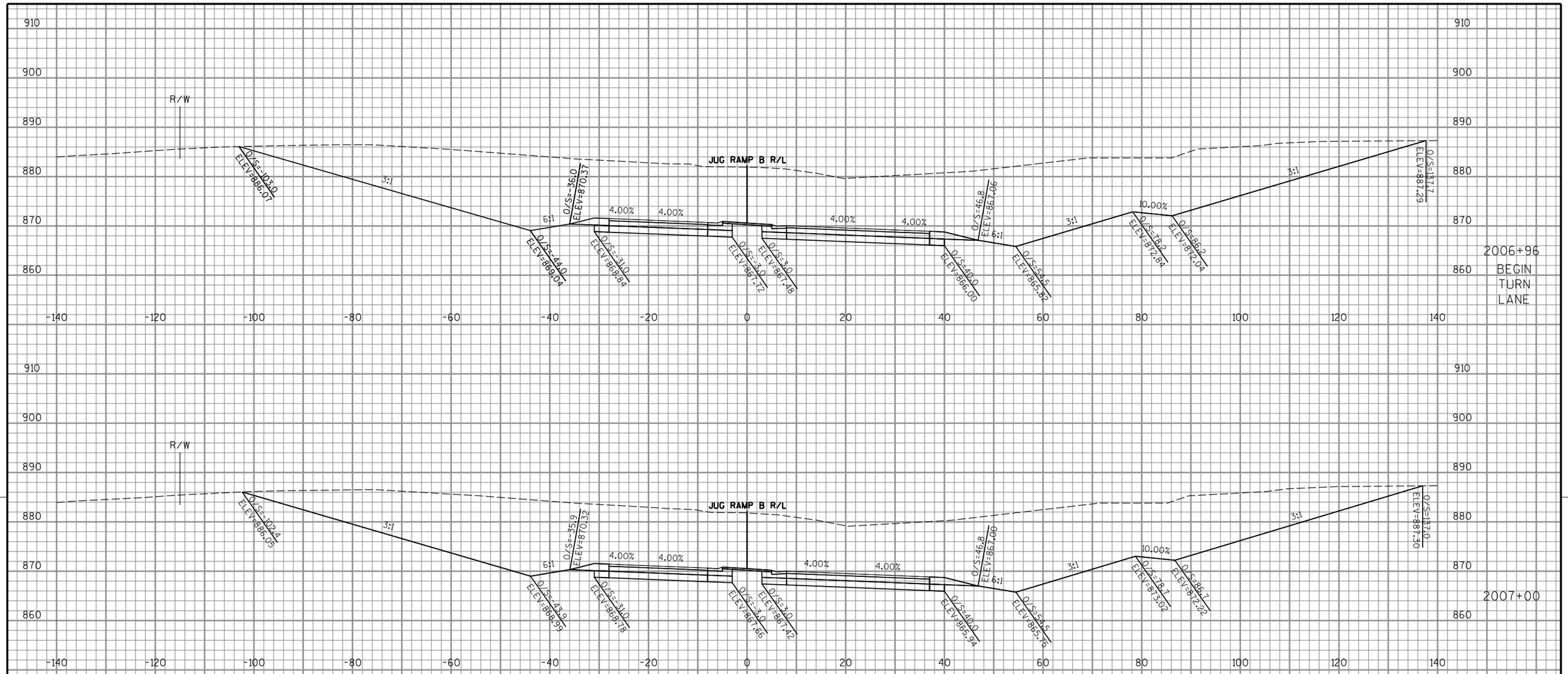
WISDOT/CADDS SHEET 21

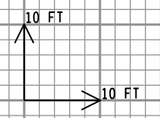


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 778	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





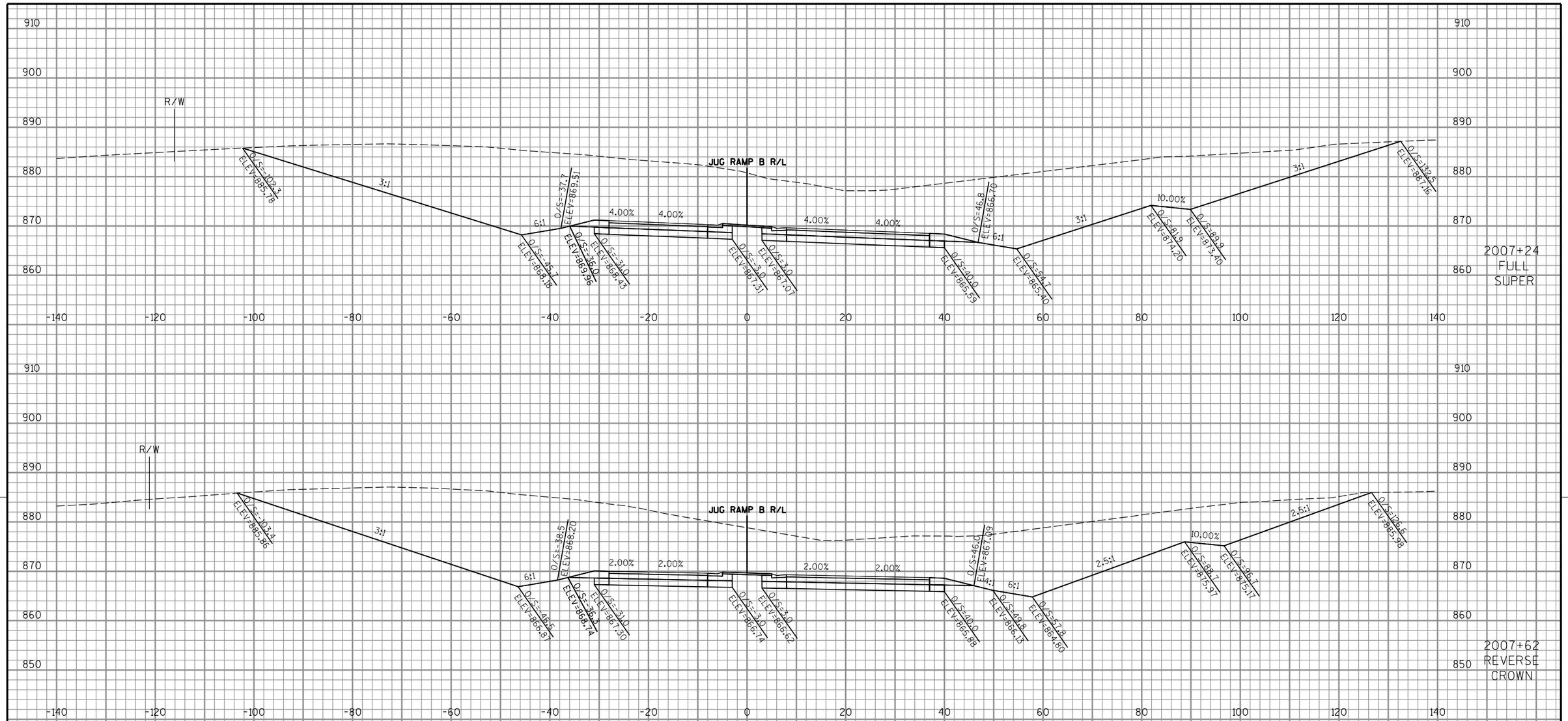
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 779	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



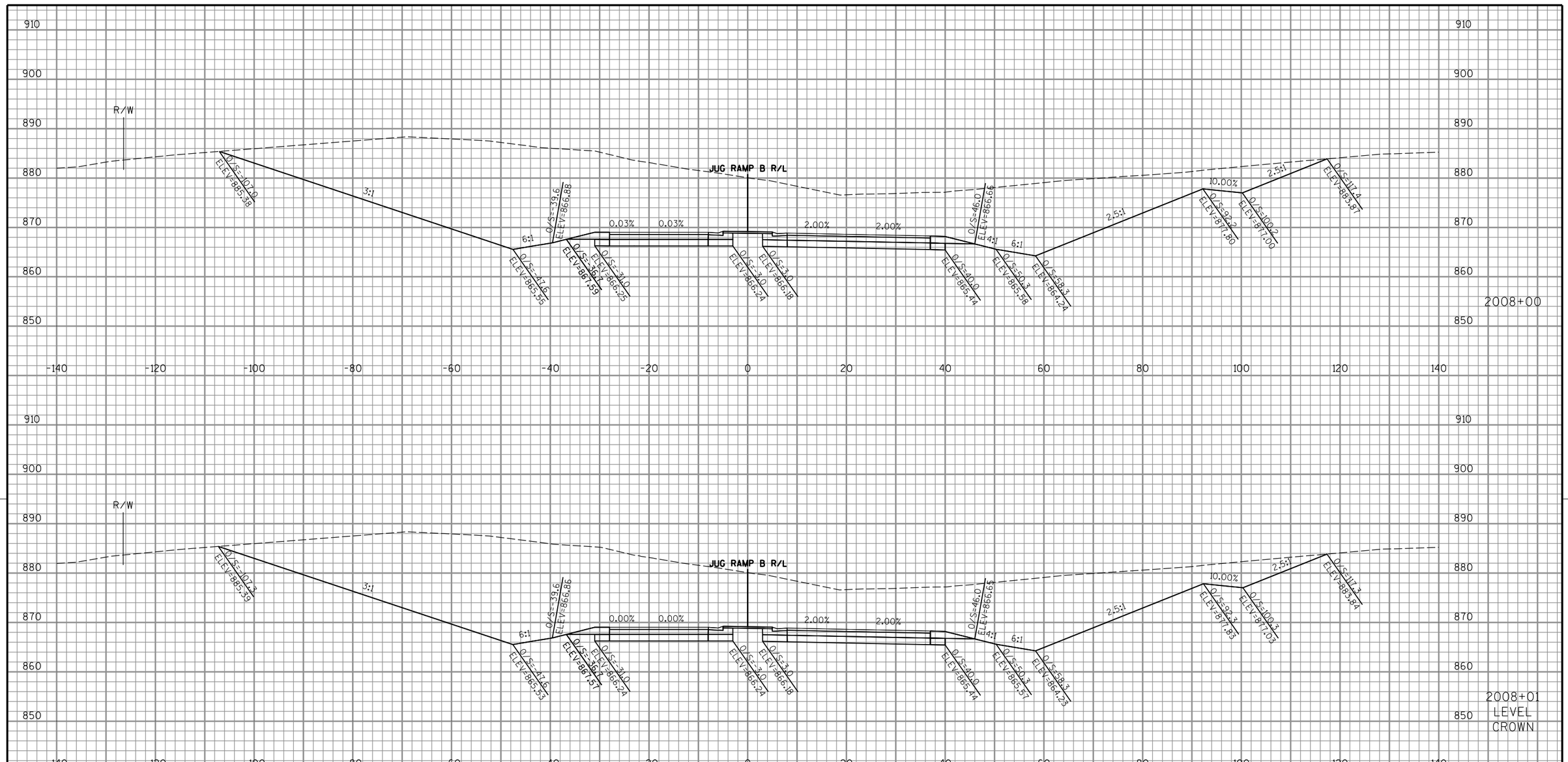
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 780	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

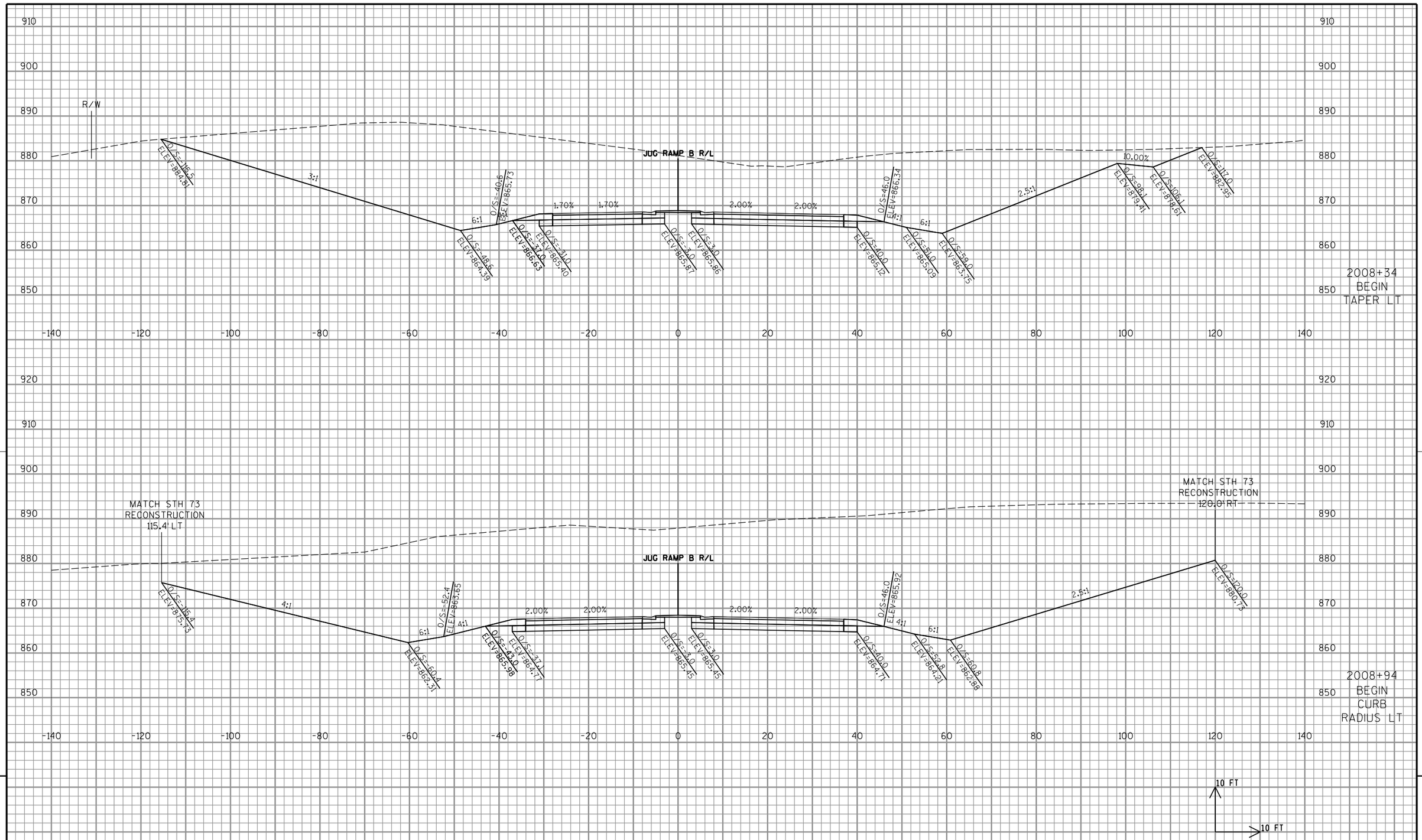
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 781	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

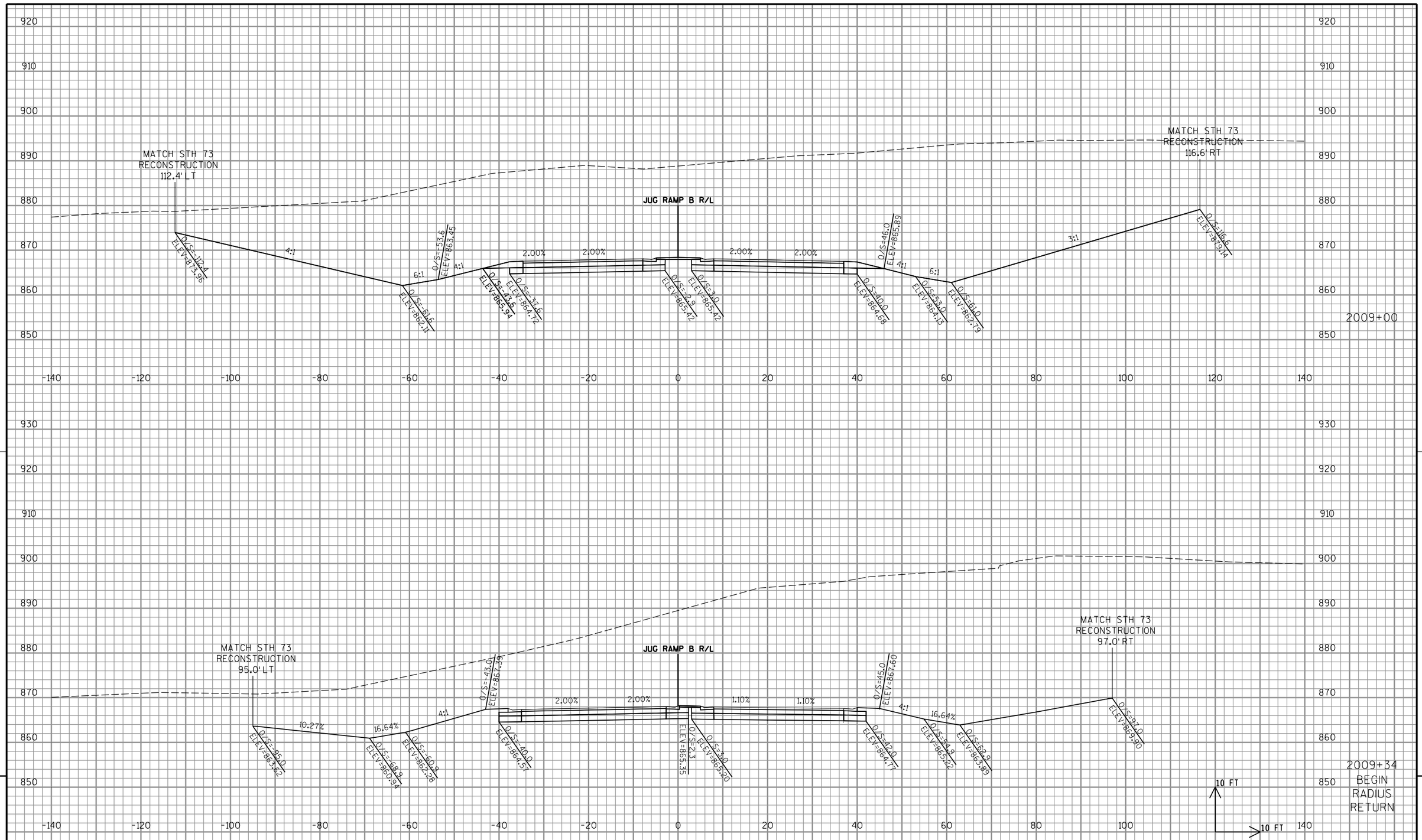
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 782	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn | PLOT DATE : 10/27/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

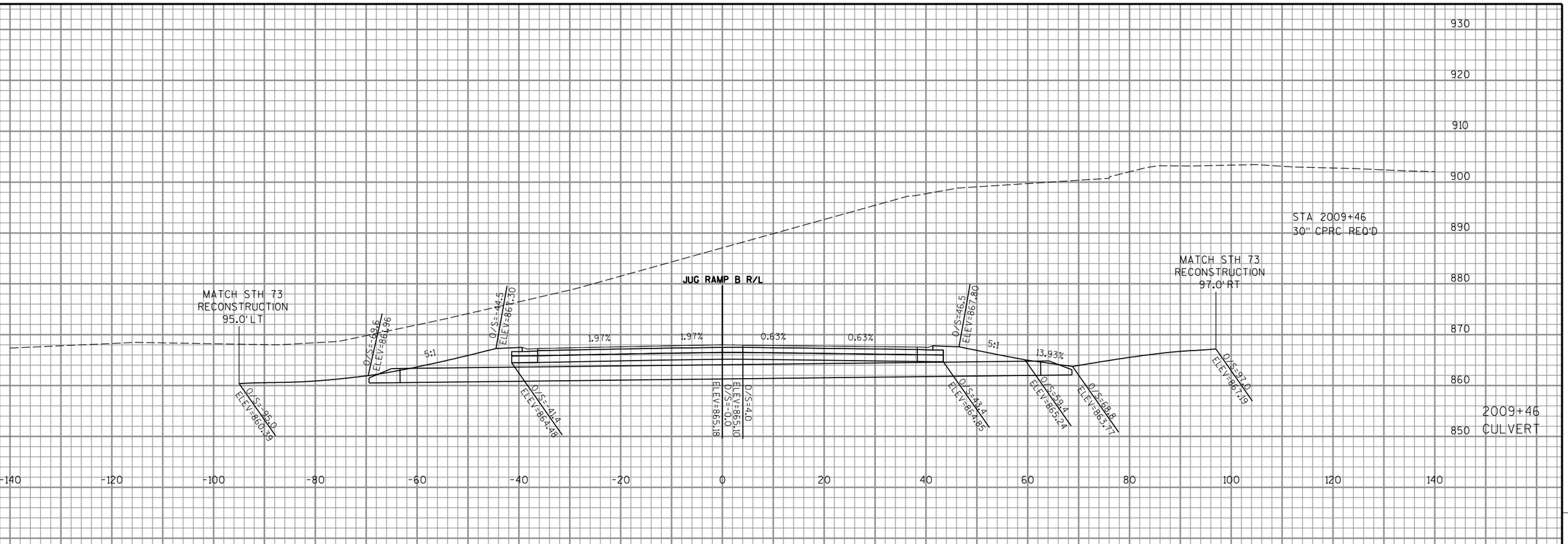


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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 783	E

9

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn
PLOT DATE : 10/27/2014
PLOT BY : smk
PLOT NAME :
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21

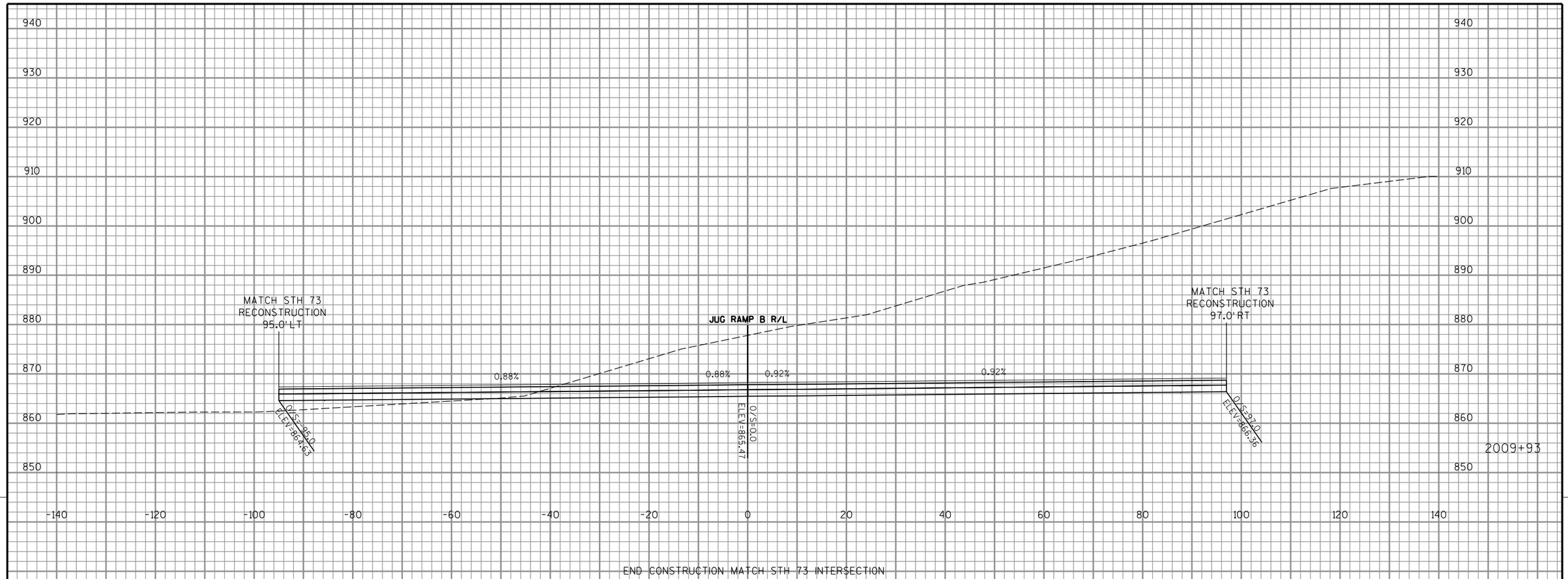


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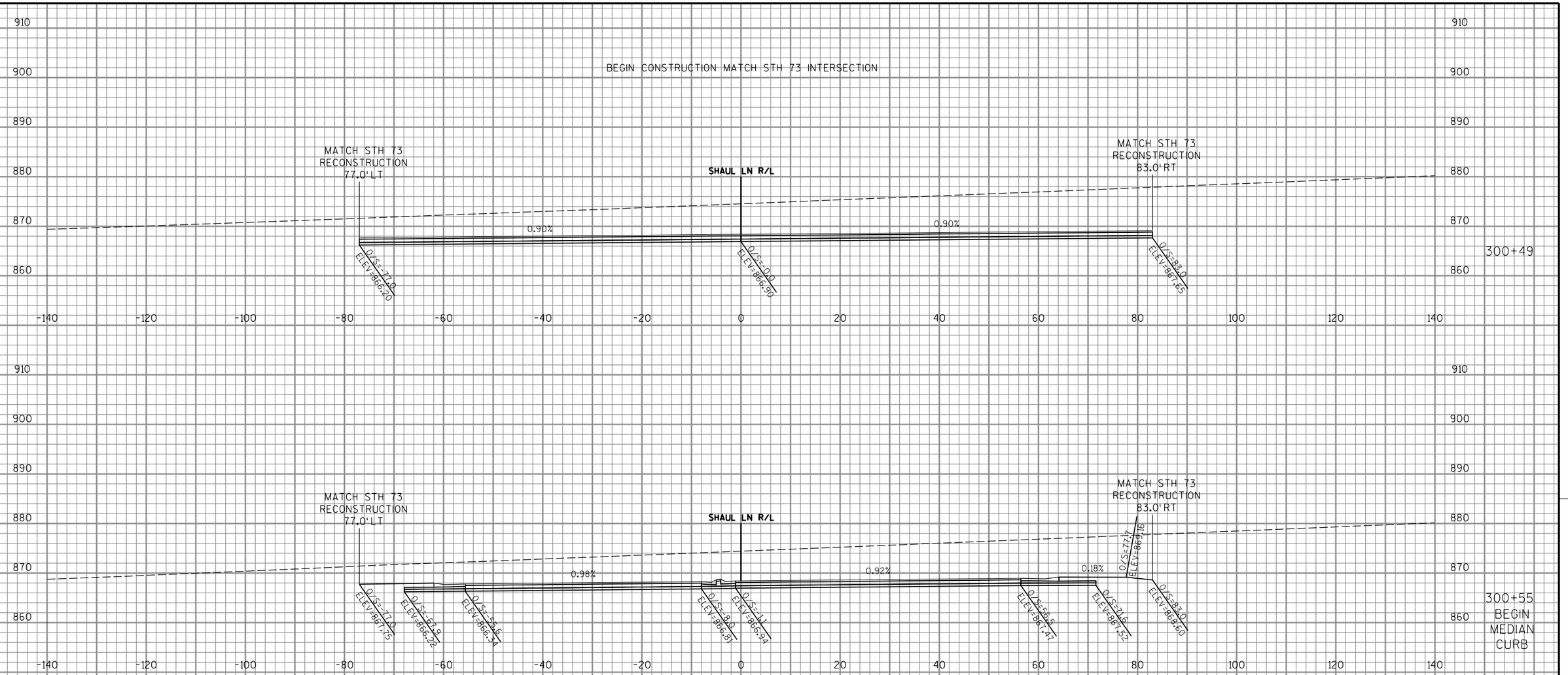
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 784	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090204_xs_Jug B.dgn
PLOT DATE : 10/27/2014
PLOT BY : smk
PLOT NAME :
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21



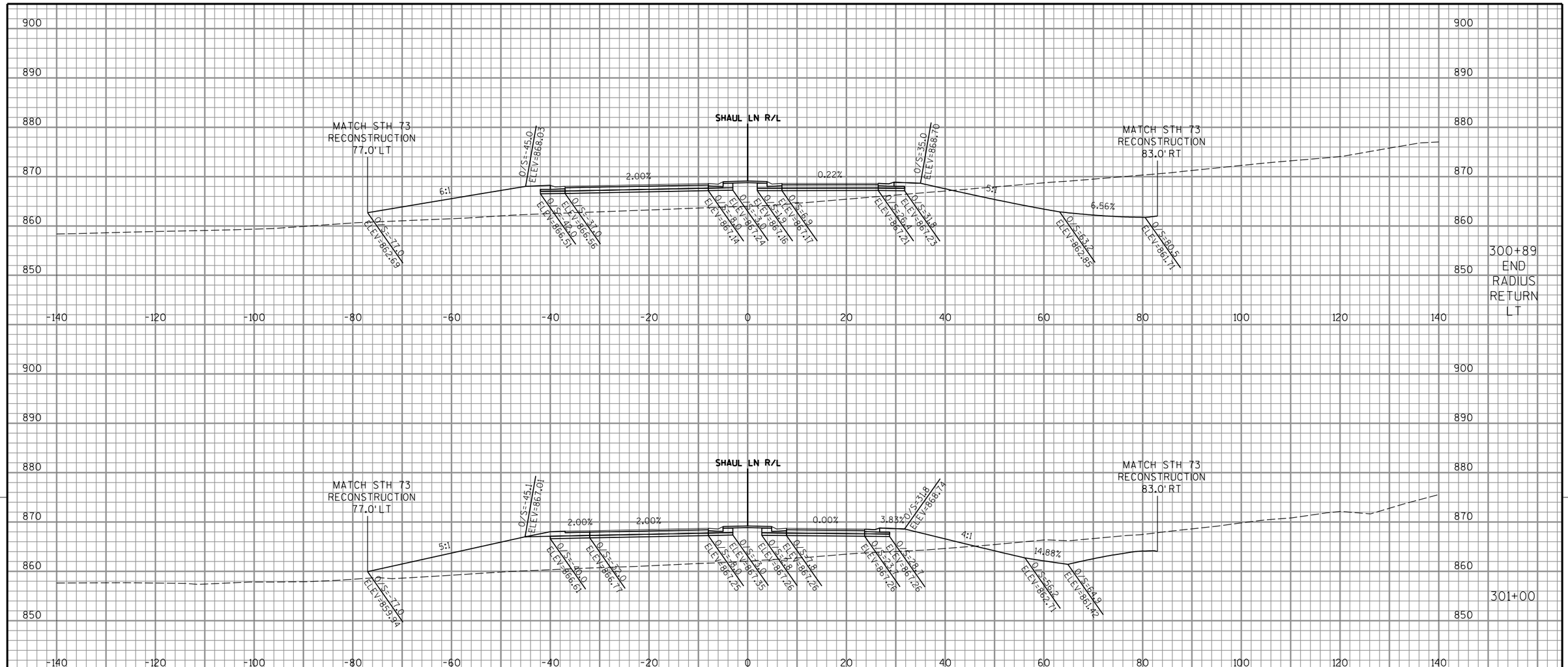
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: JUG RAMP B	SHEET 785	E



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 786	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

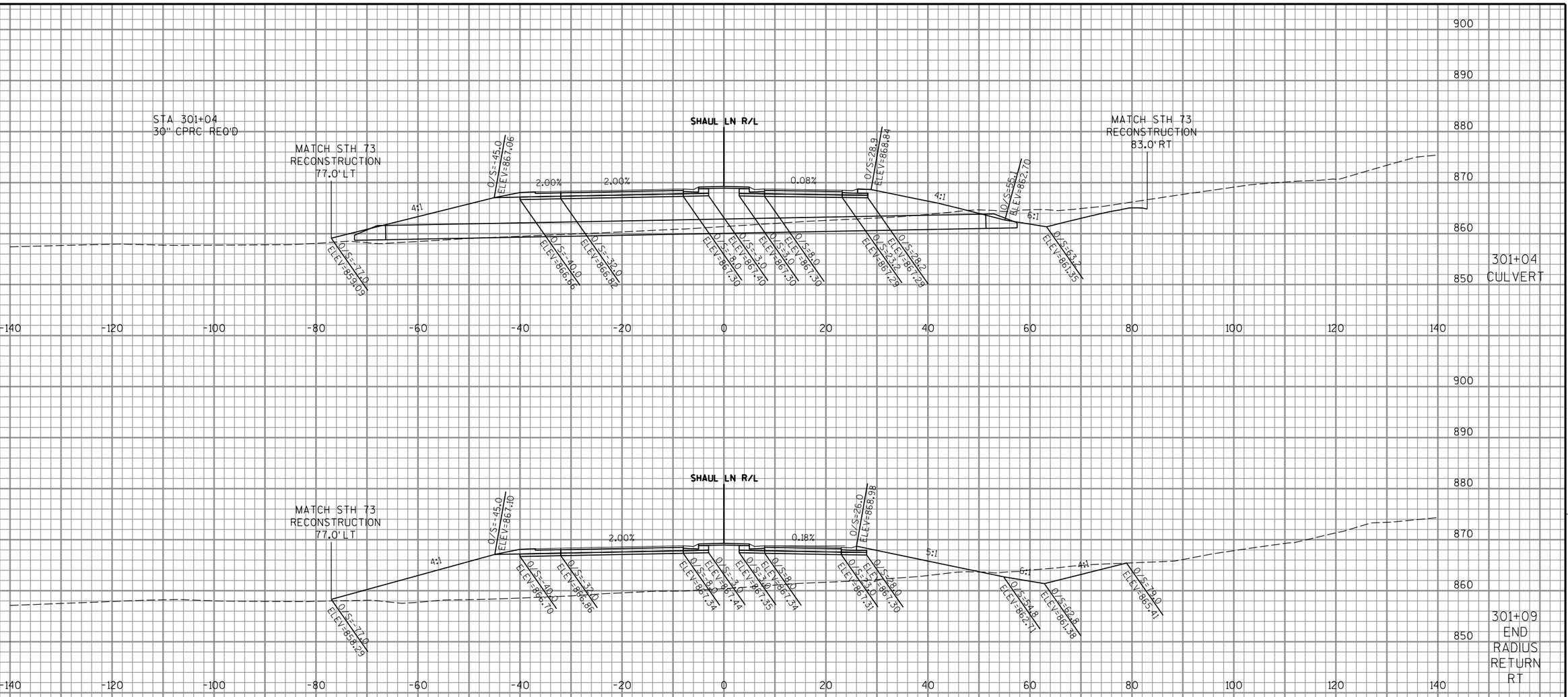
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 787	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



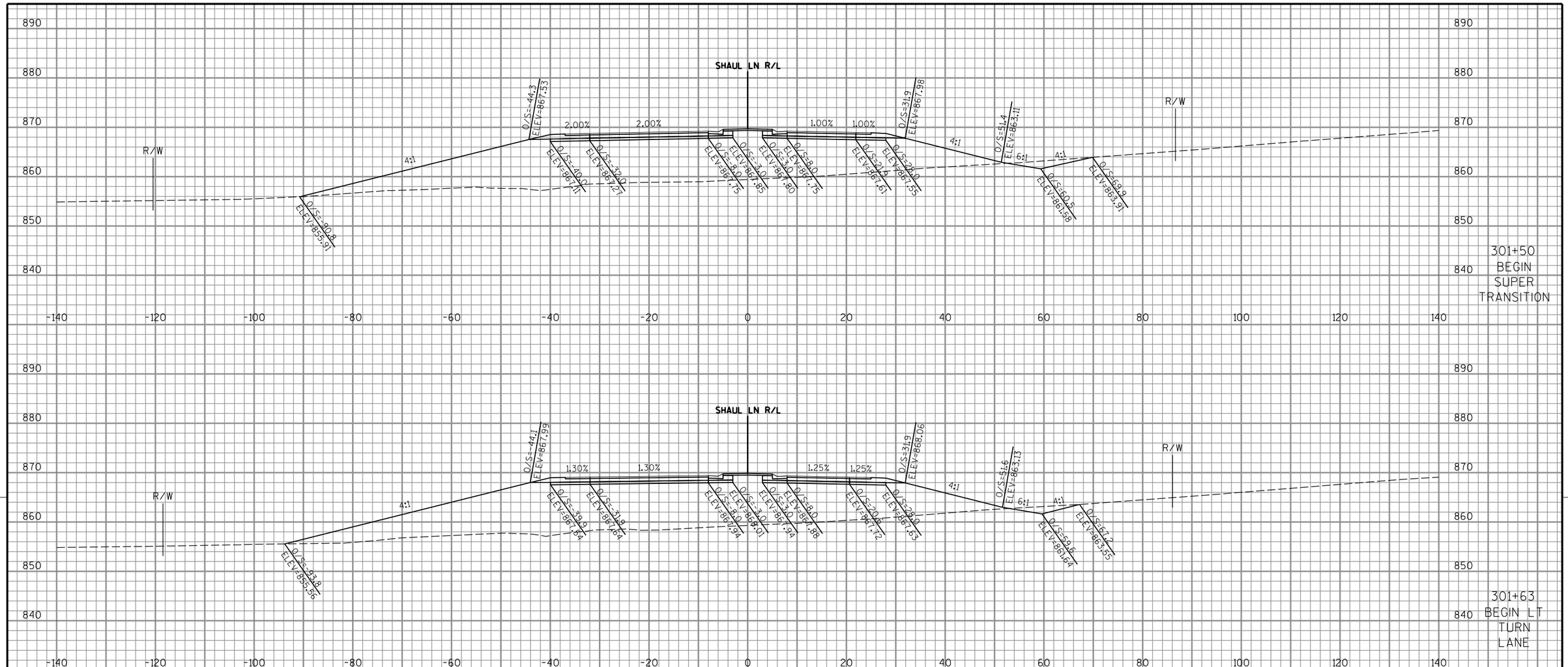
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 788	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



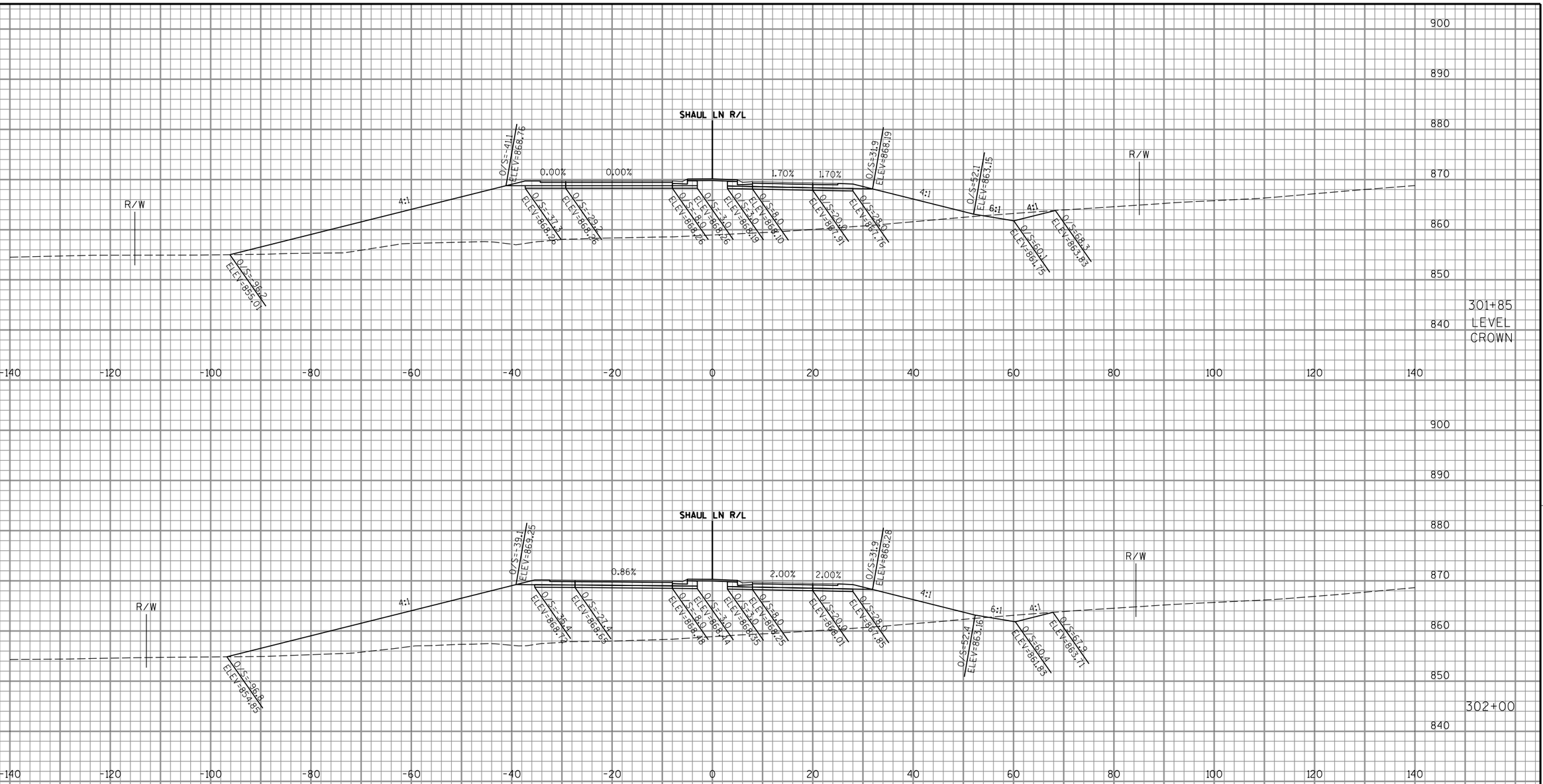
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 789	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



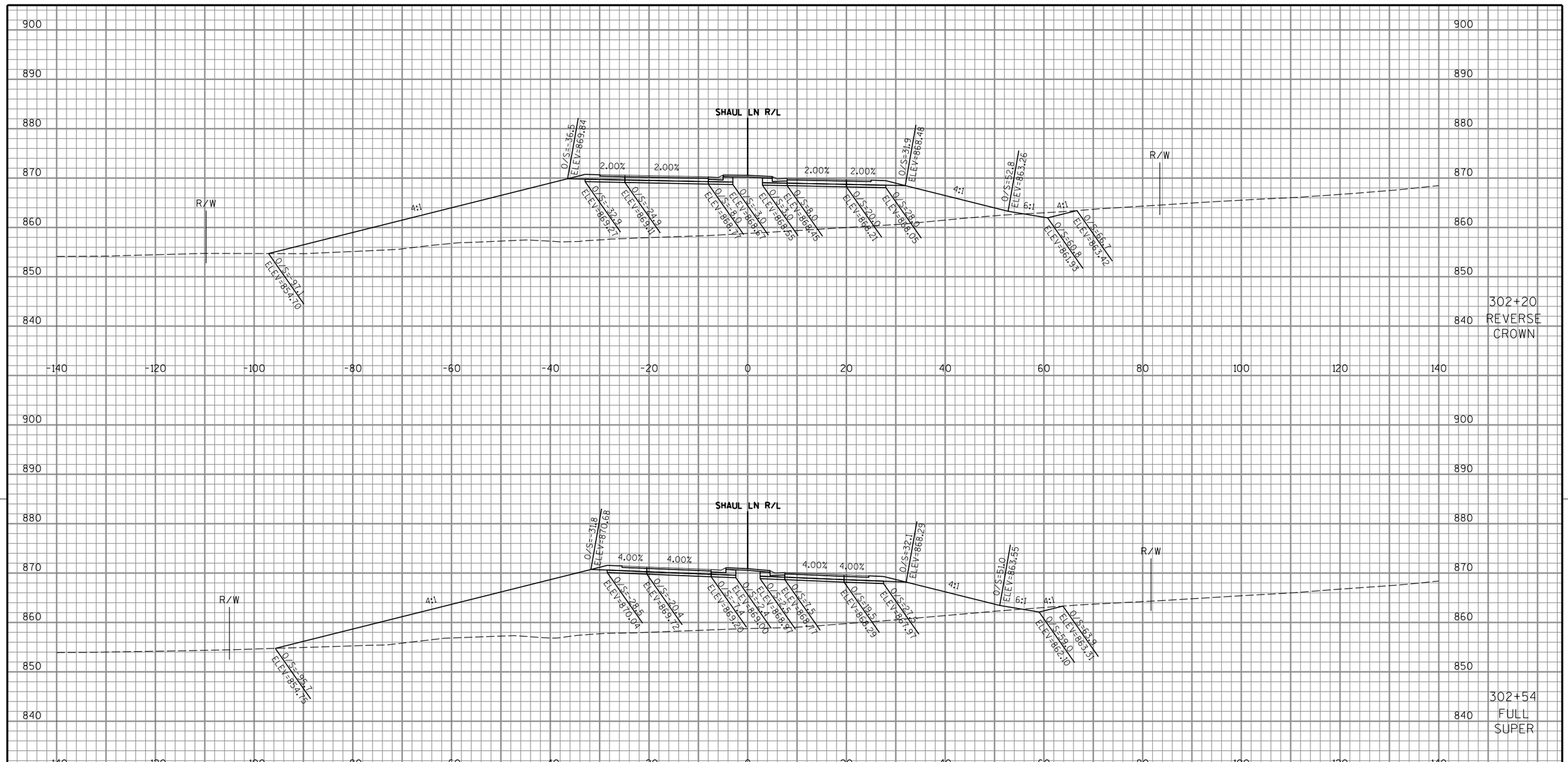
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 790	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

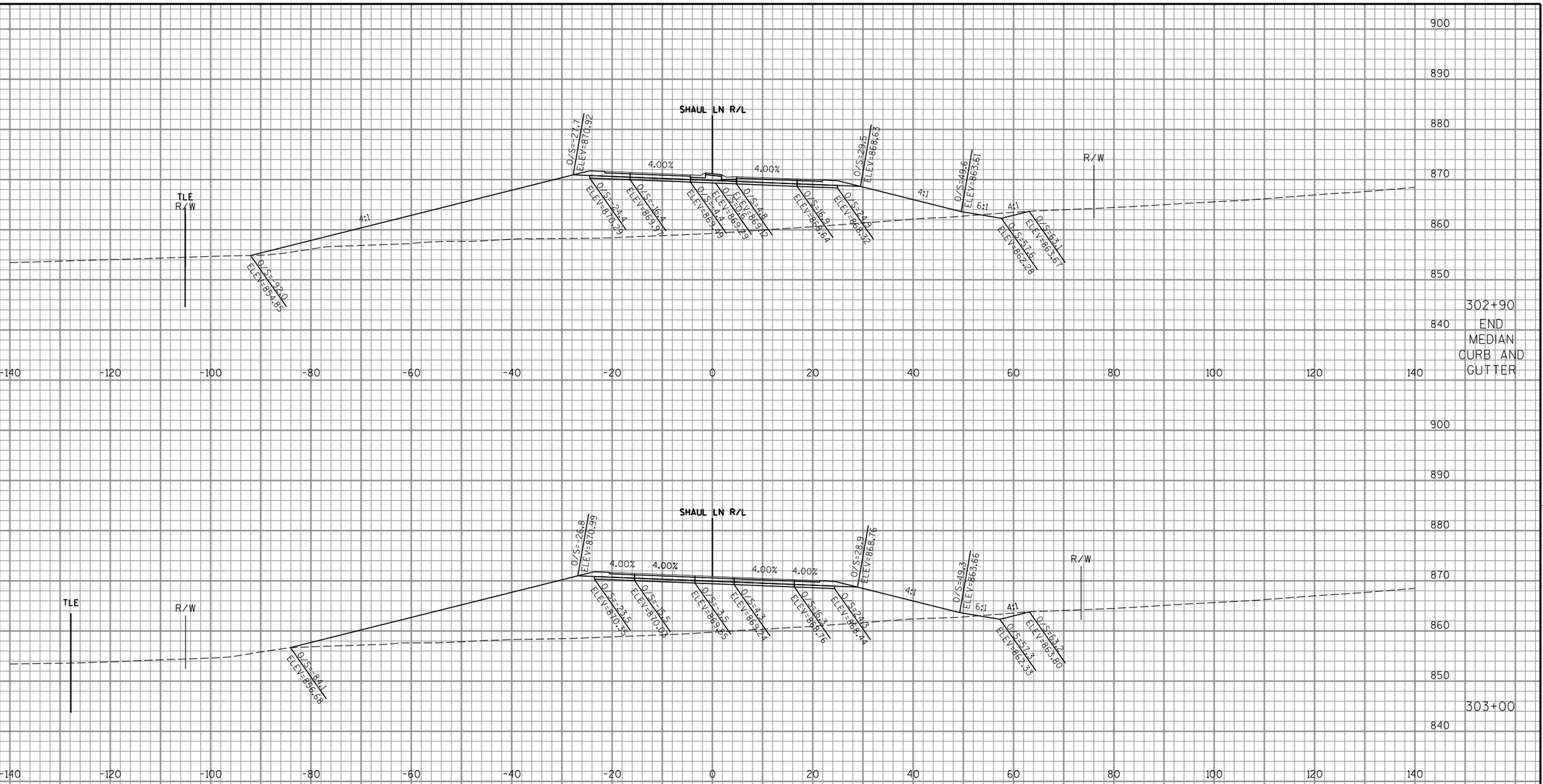
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 791	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

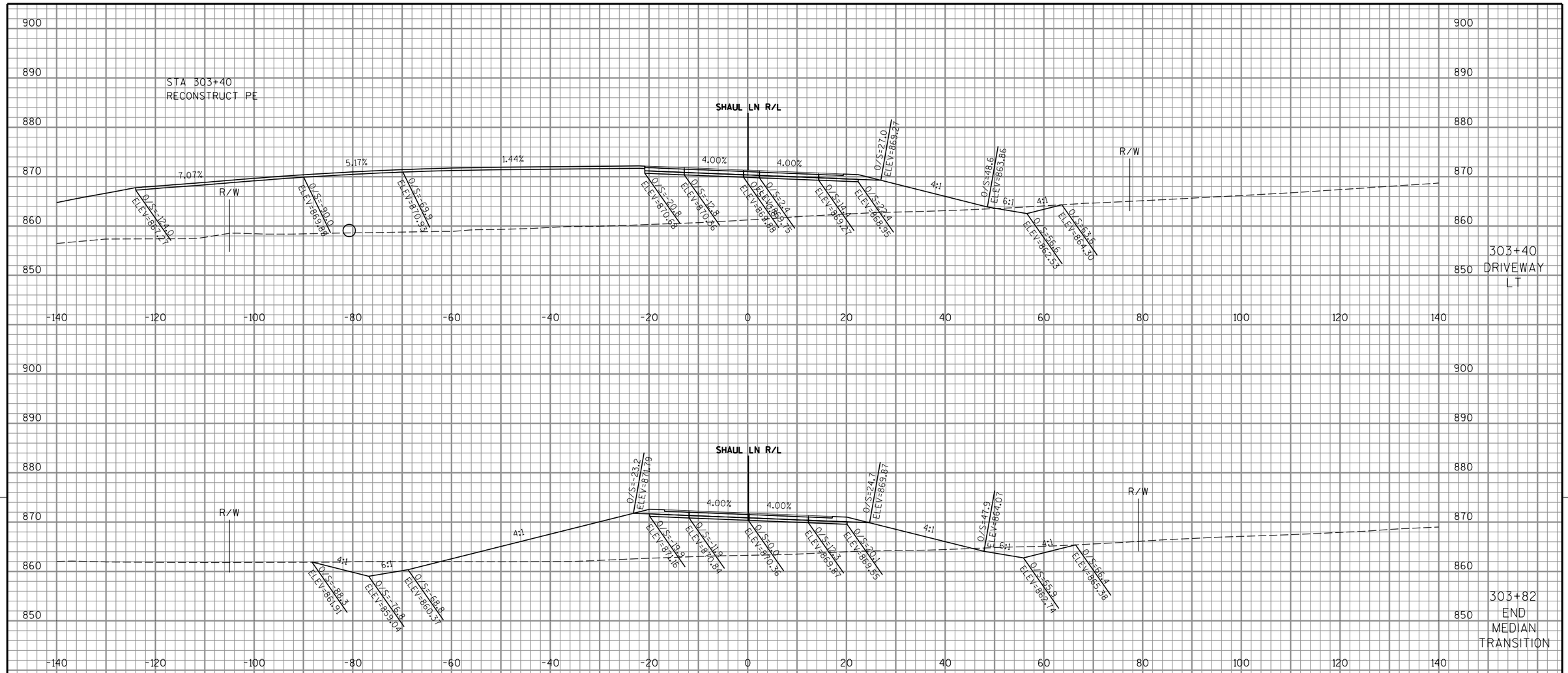
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 792	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

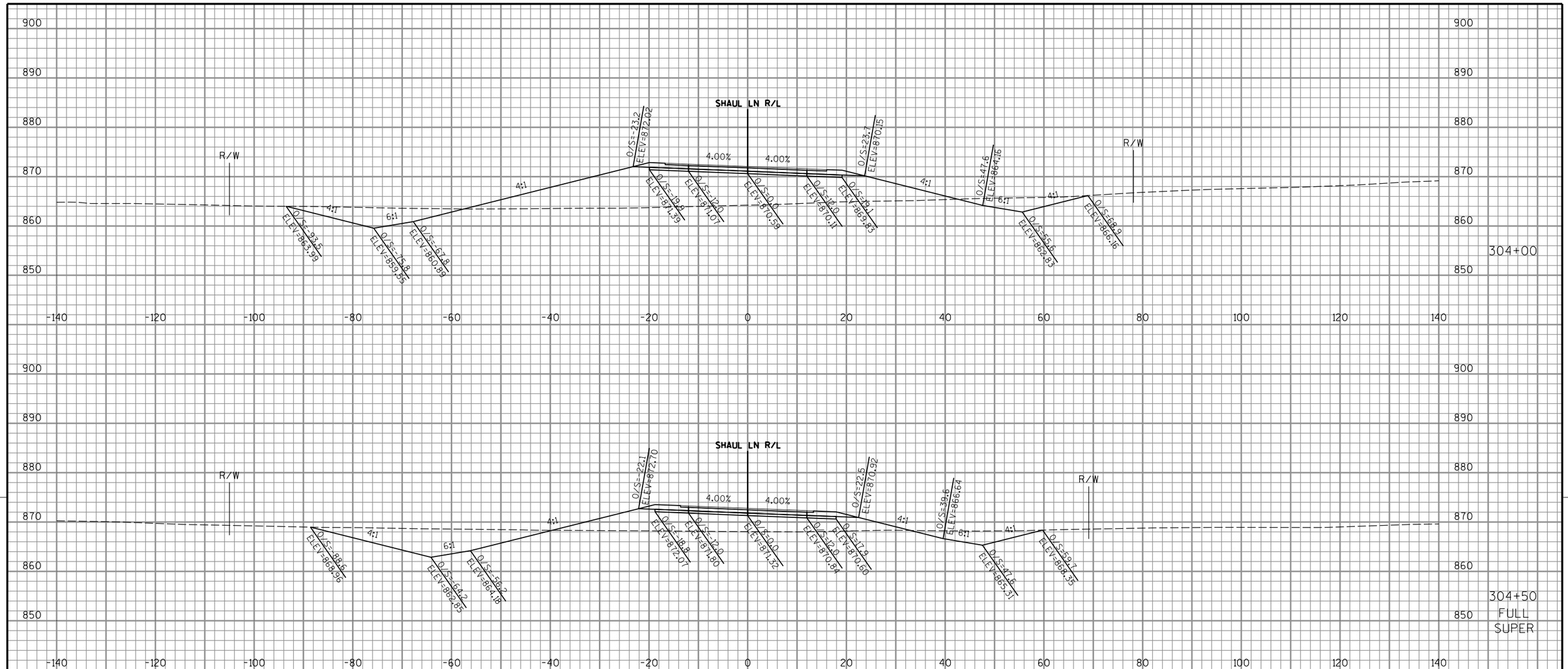
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 793	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

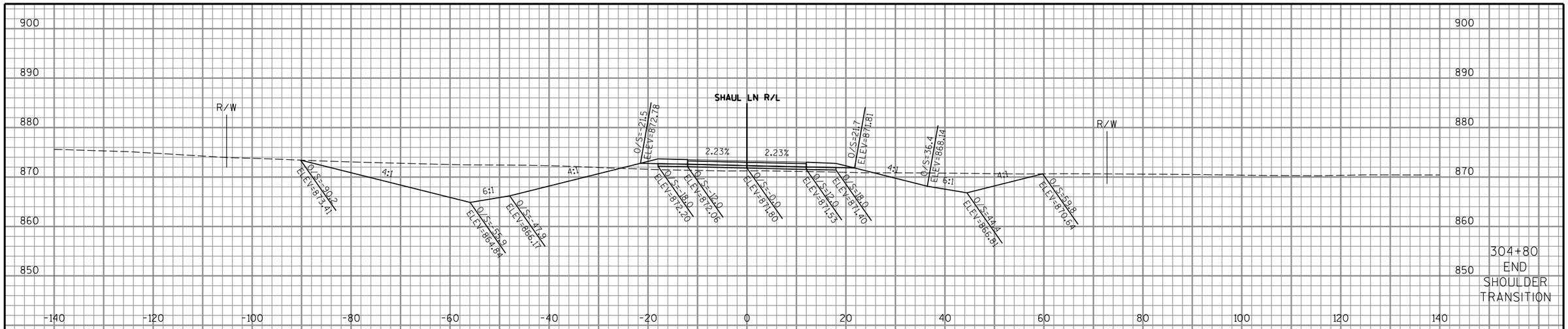
WISDOT/CADDS SHEET 21

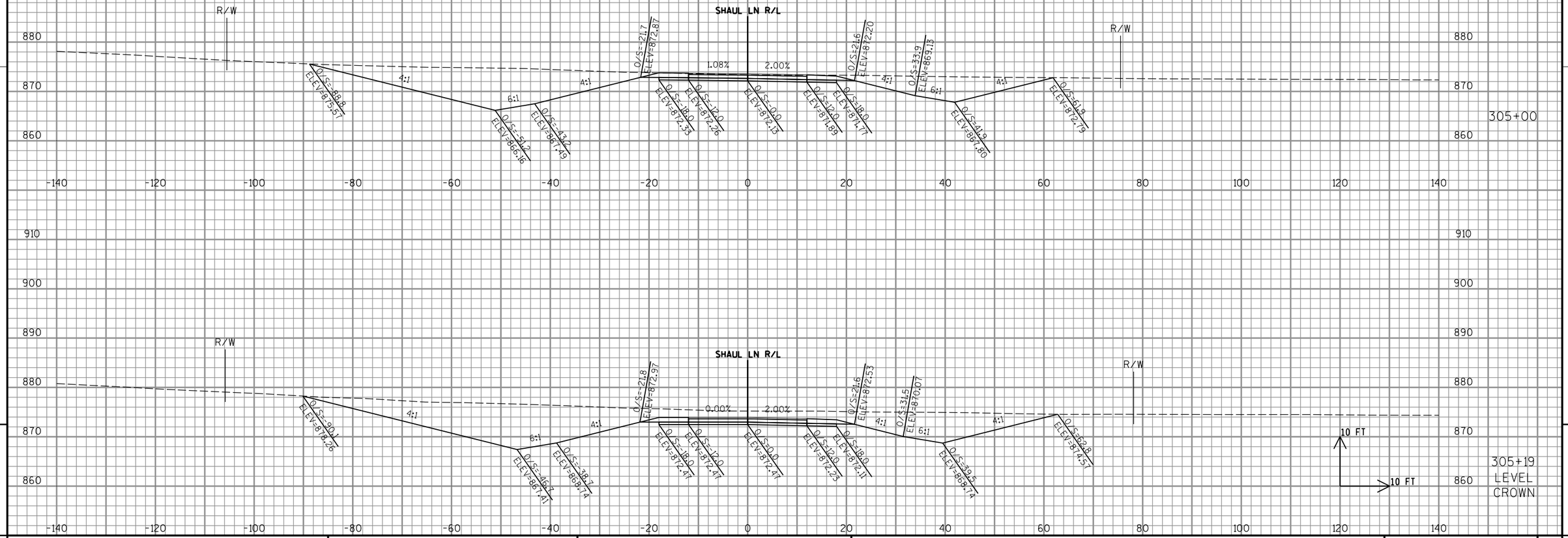


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 794	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





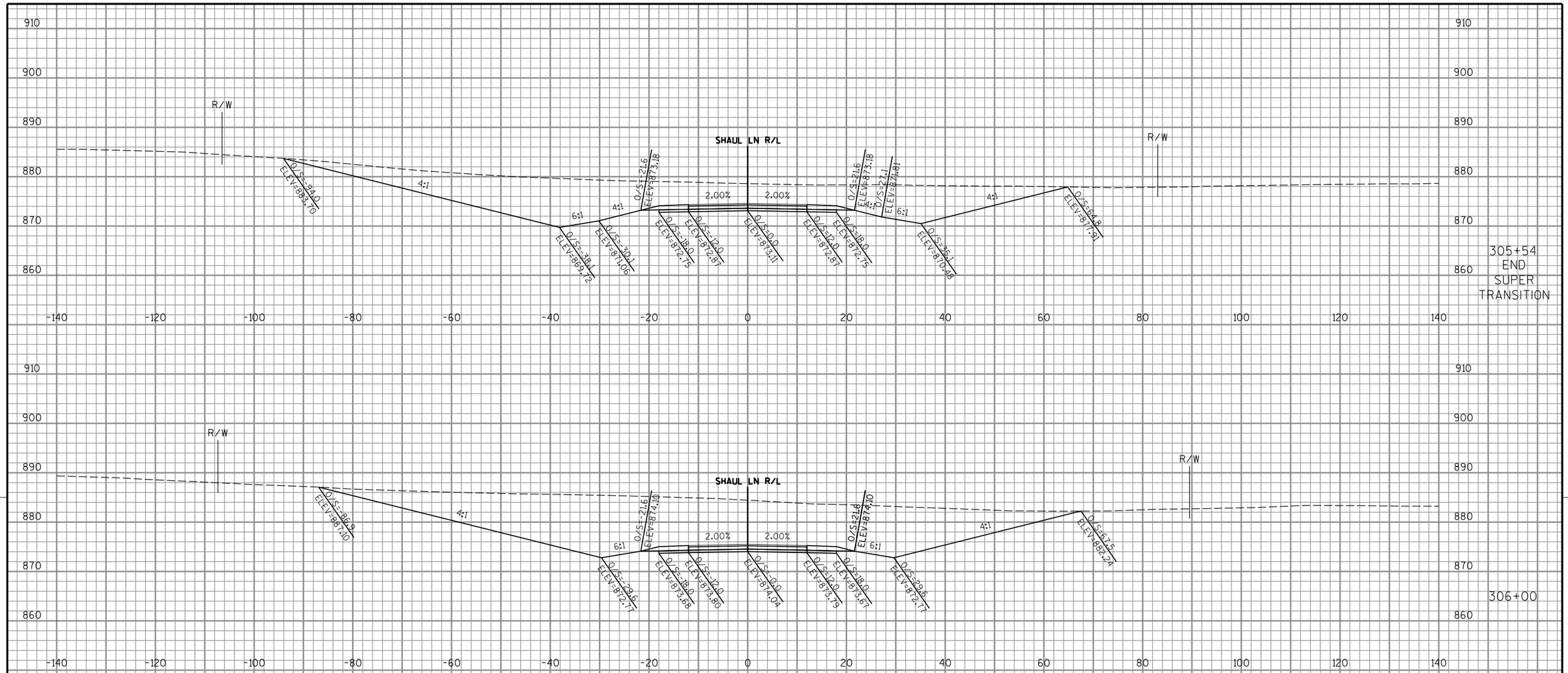
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 795	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



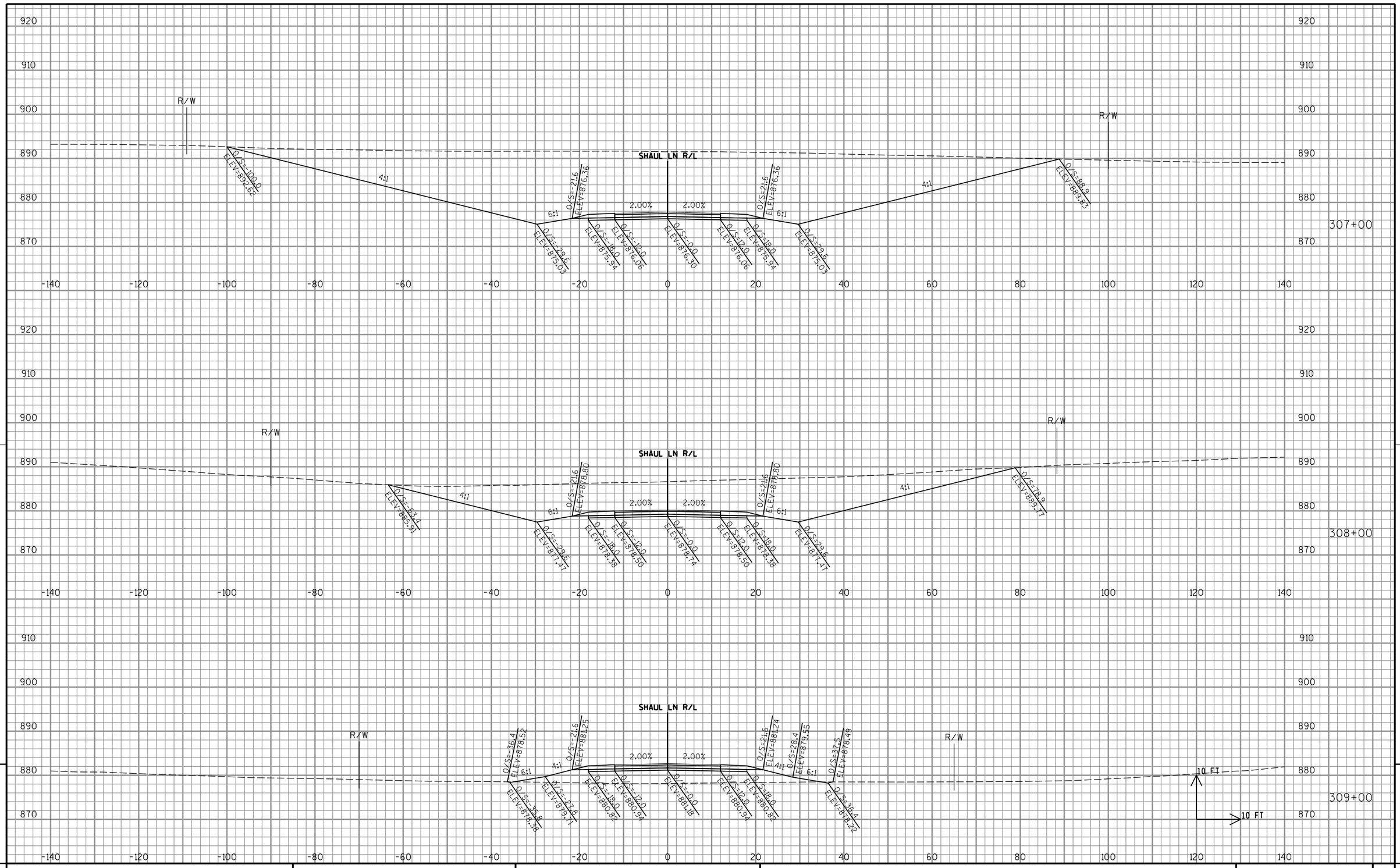
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 796	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

9



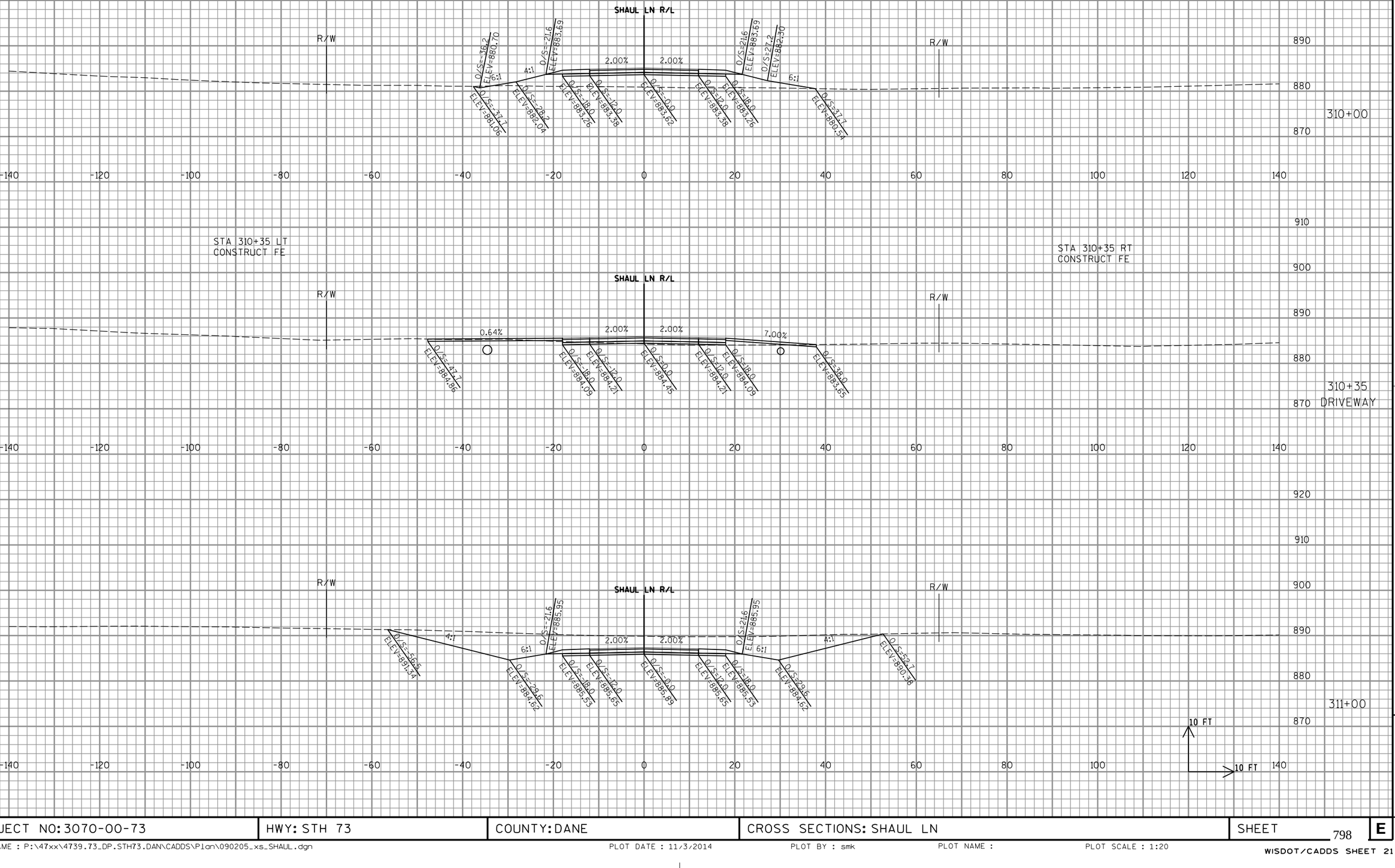
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 797	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

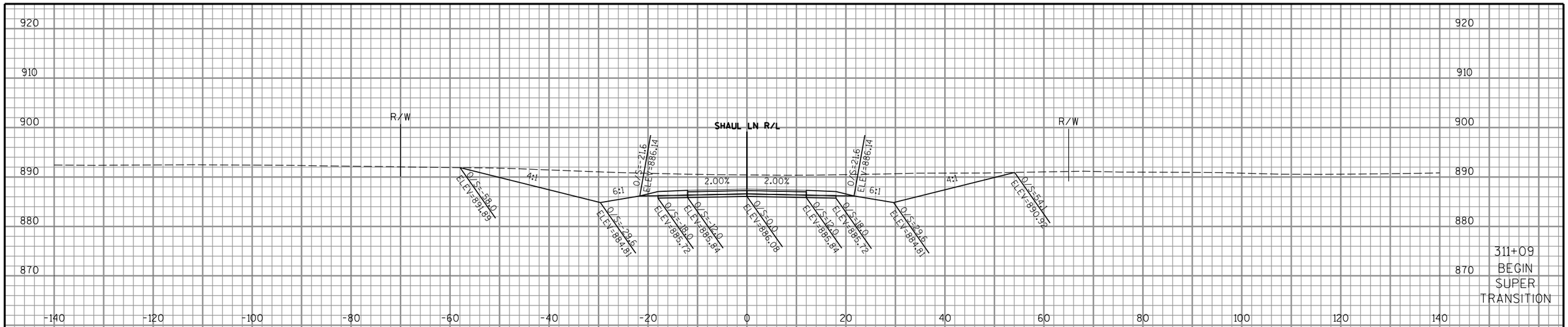
WISDOT/CADDS SHEET 21

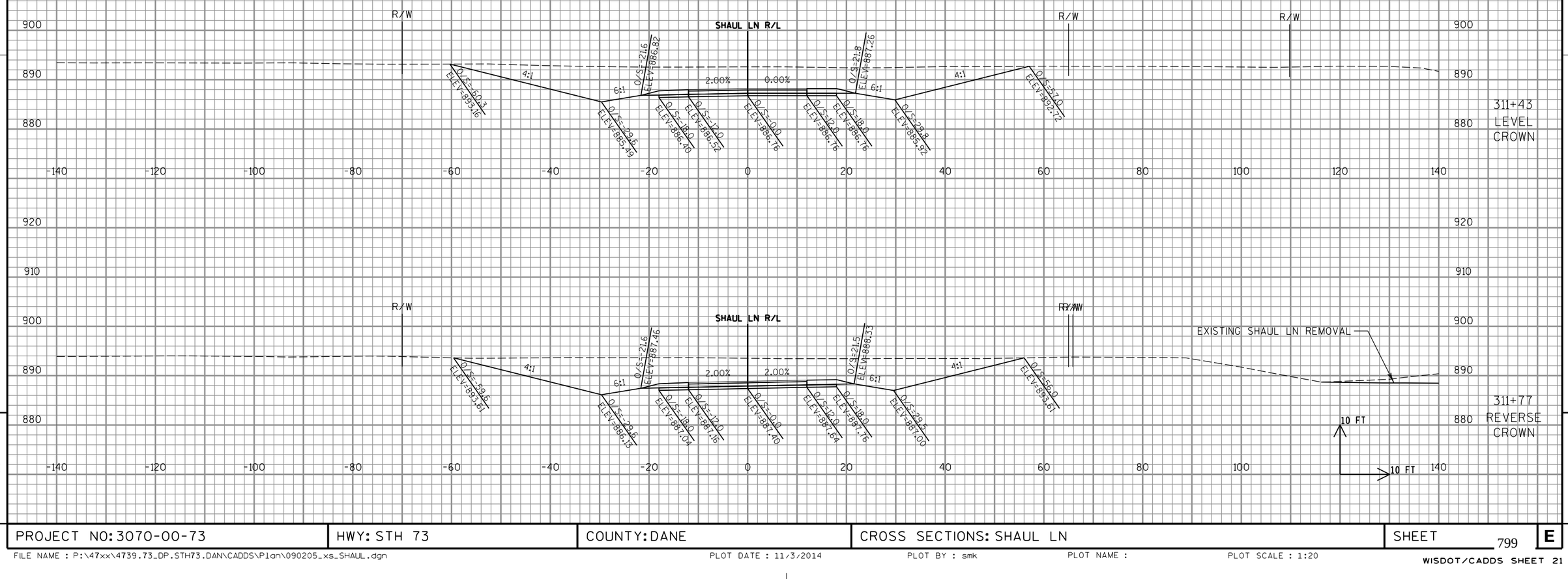


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 798	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





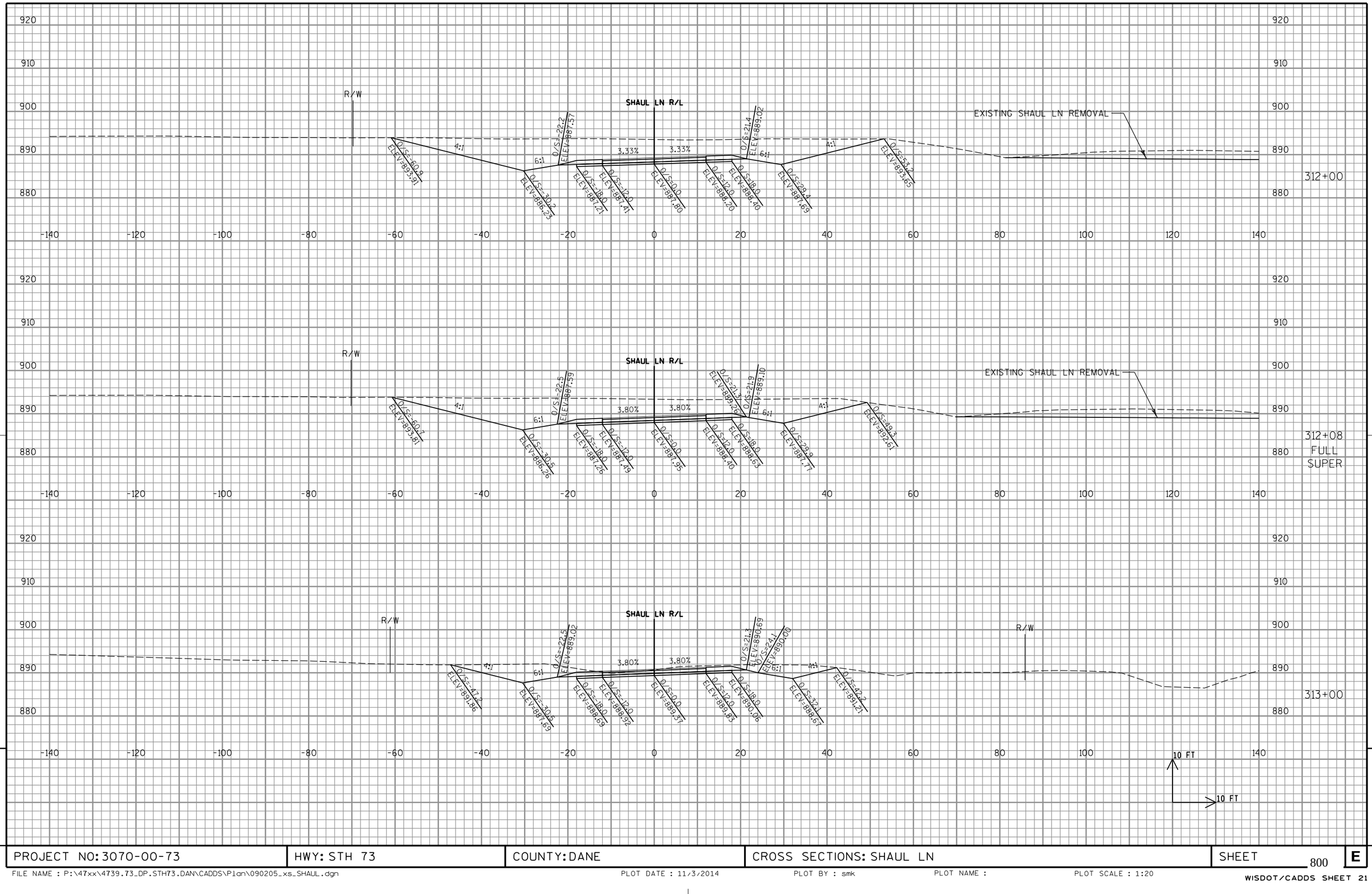
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 799	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

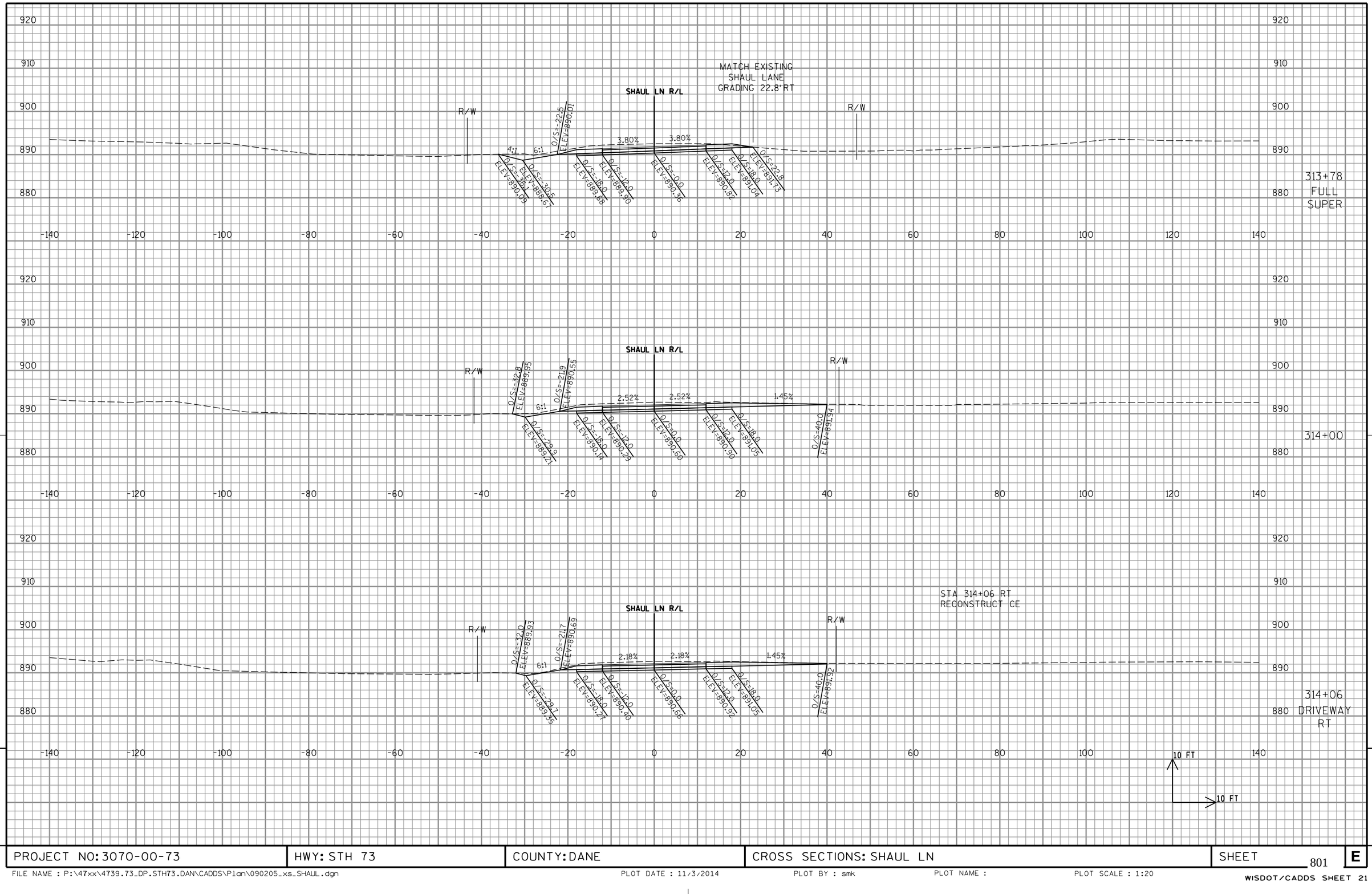
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 800	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

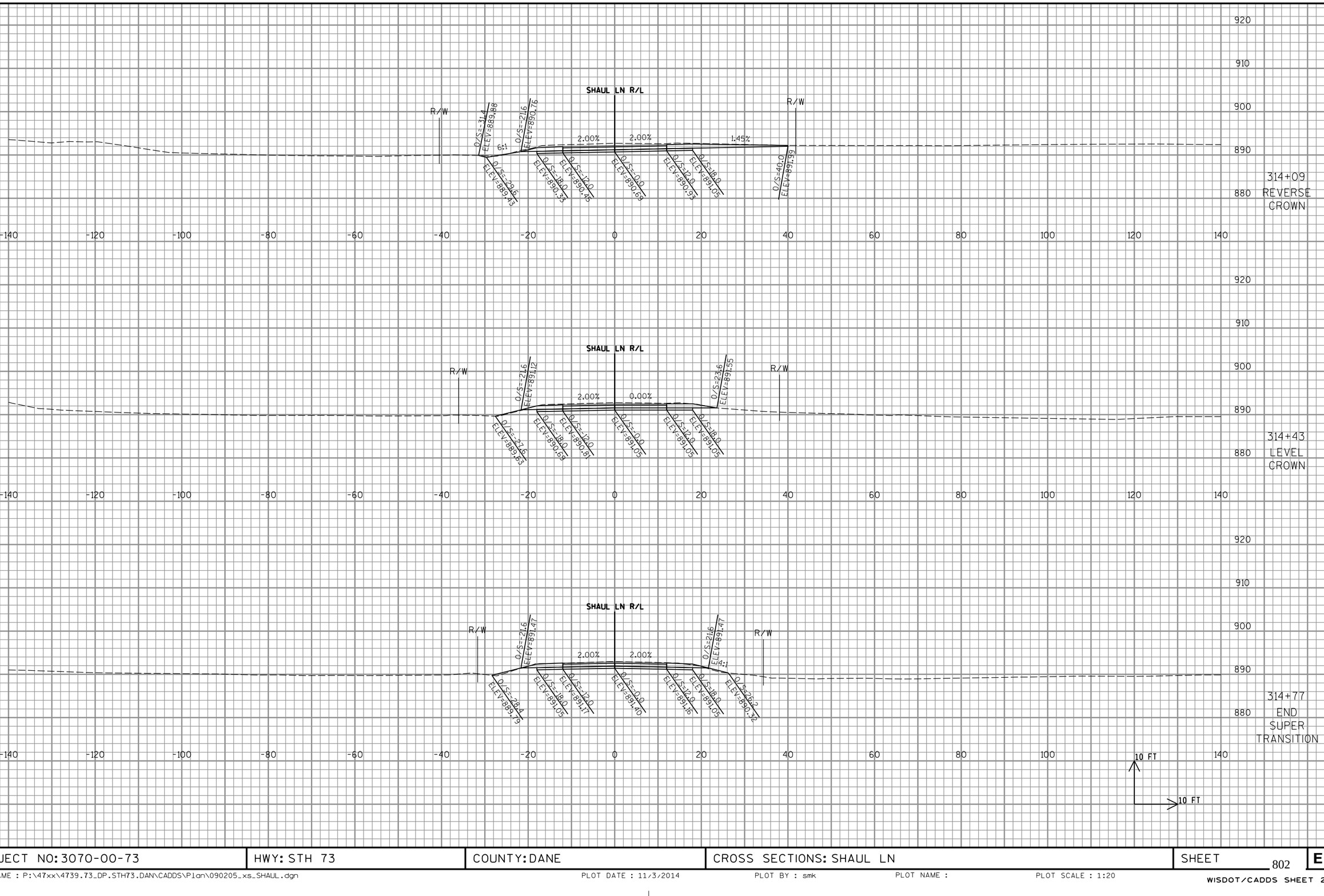
WISDOT/CADDS SHEET 21



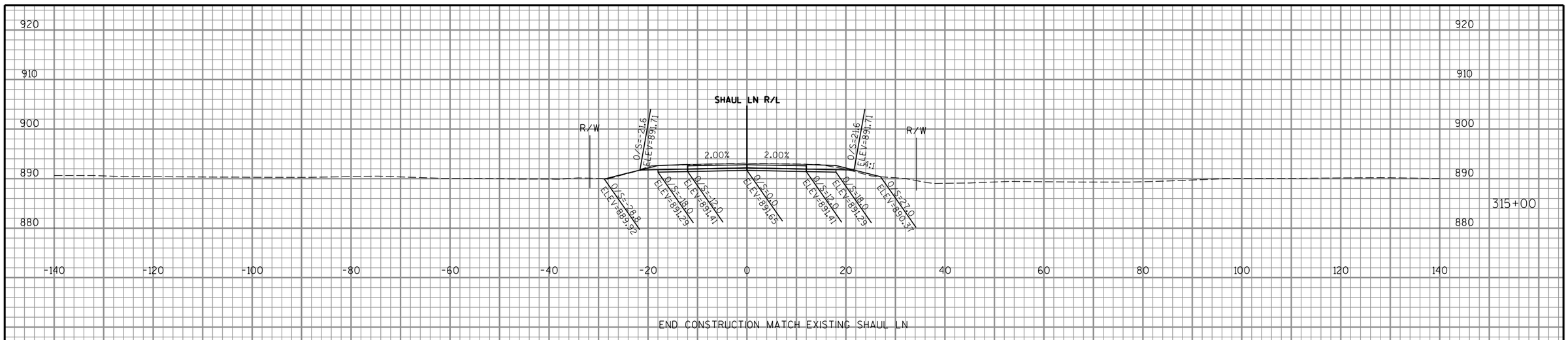
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 801	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

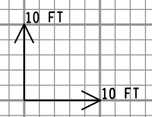
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 802	E



END CONSTRUCTION MATCH EXISTING SHAUL LN



9

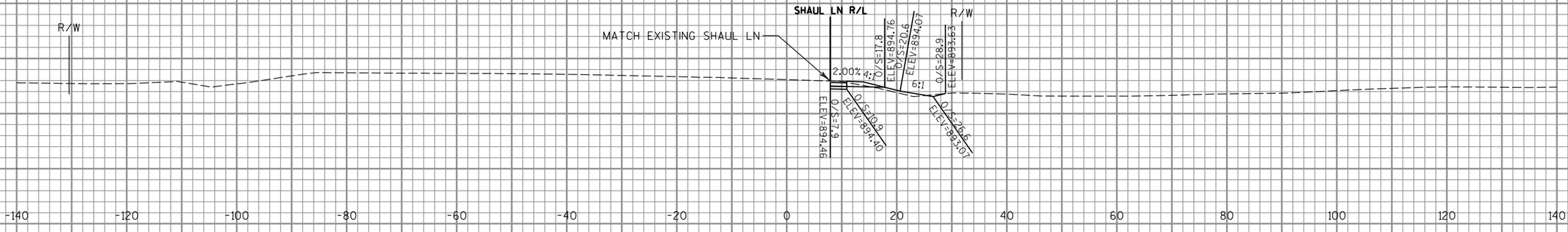
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 803	E

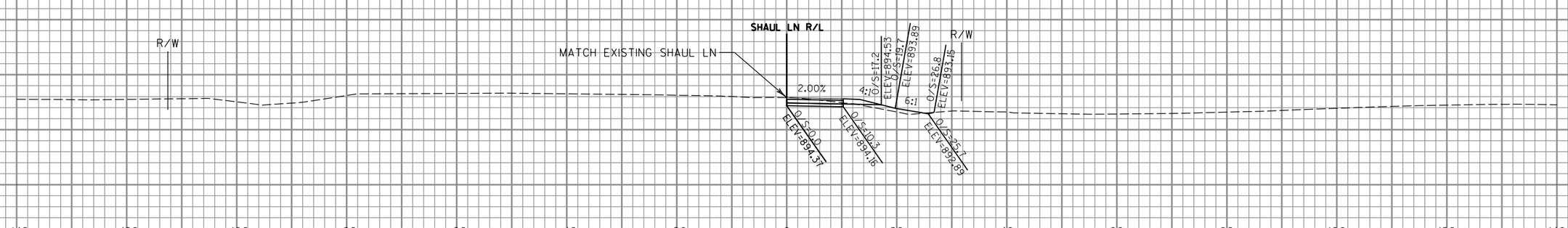
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WISDOT/CADDS SHEET 21

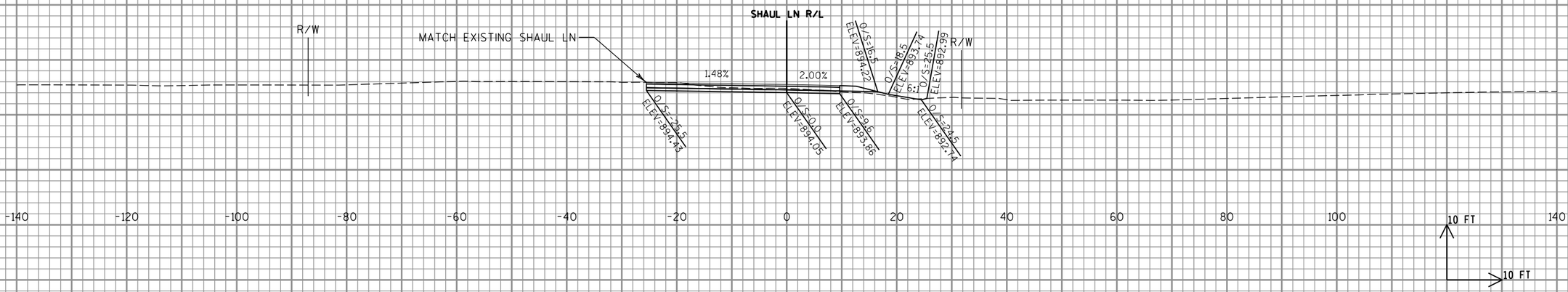
BEGIN CONSTRUCTION MATCH EXISTING SHAUL LN



321+17



321+40
BEGIN LT
LANE
PAVEMENT

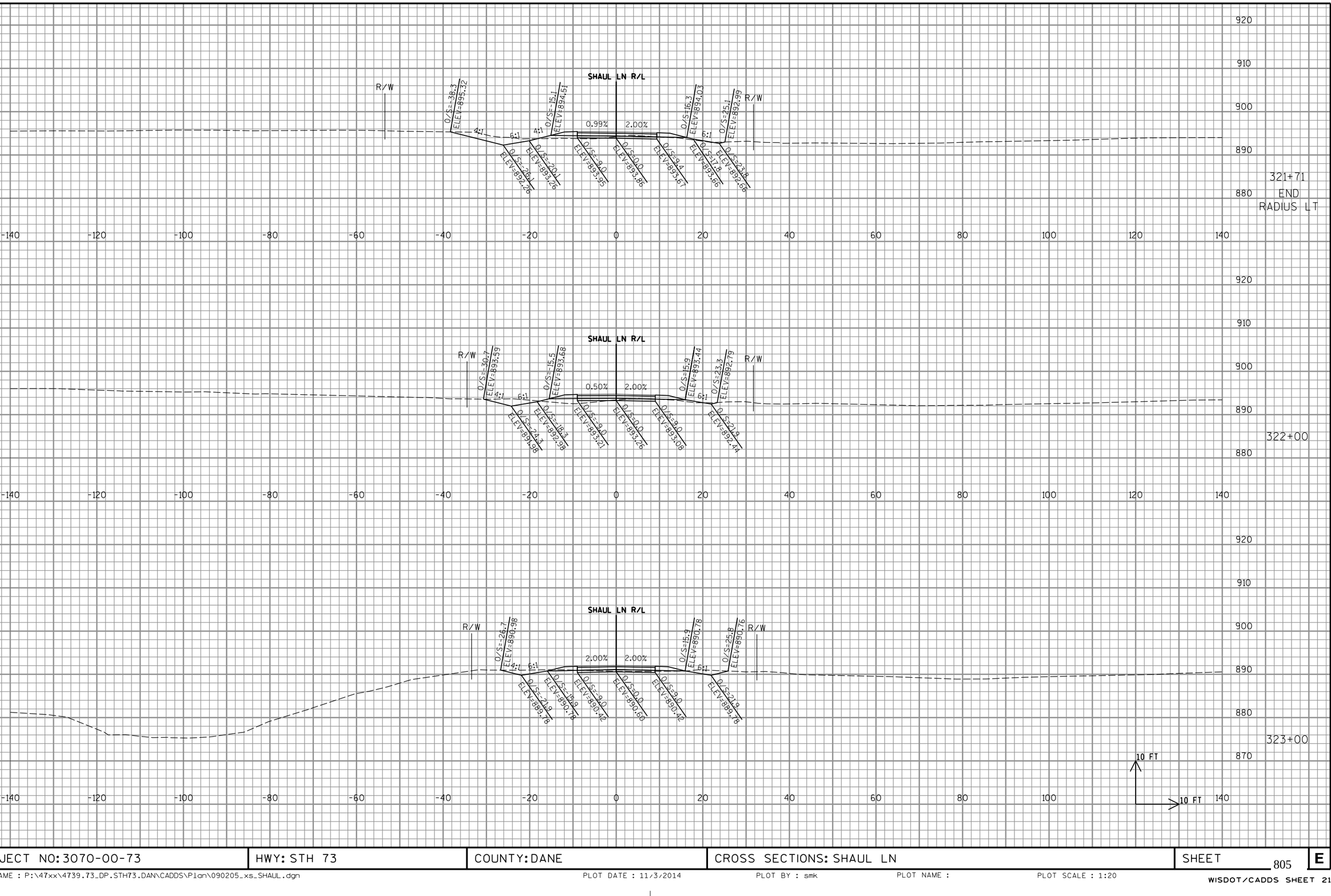


321+60
BEGIN
RADIUS LT

9

9

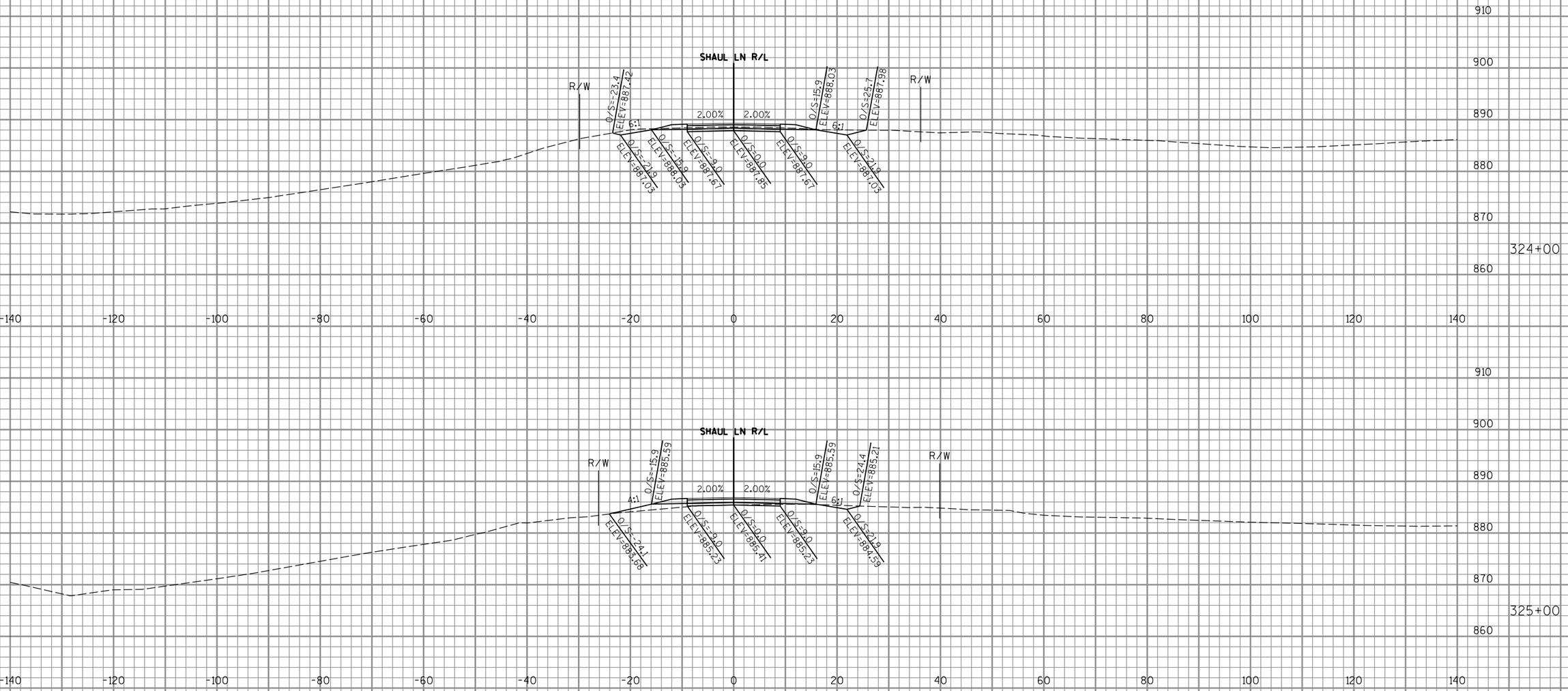
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 804	E



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 805	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

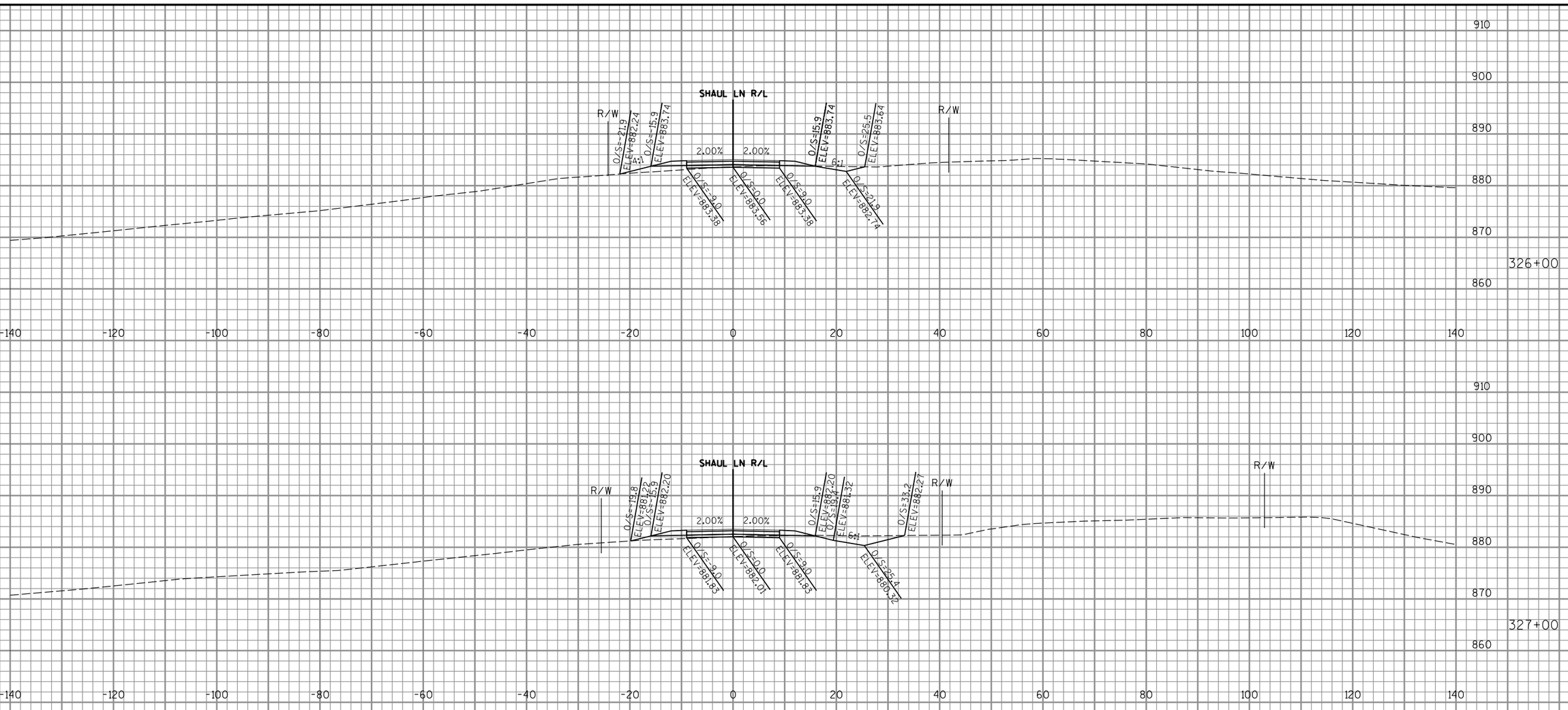
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 806	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

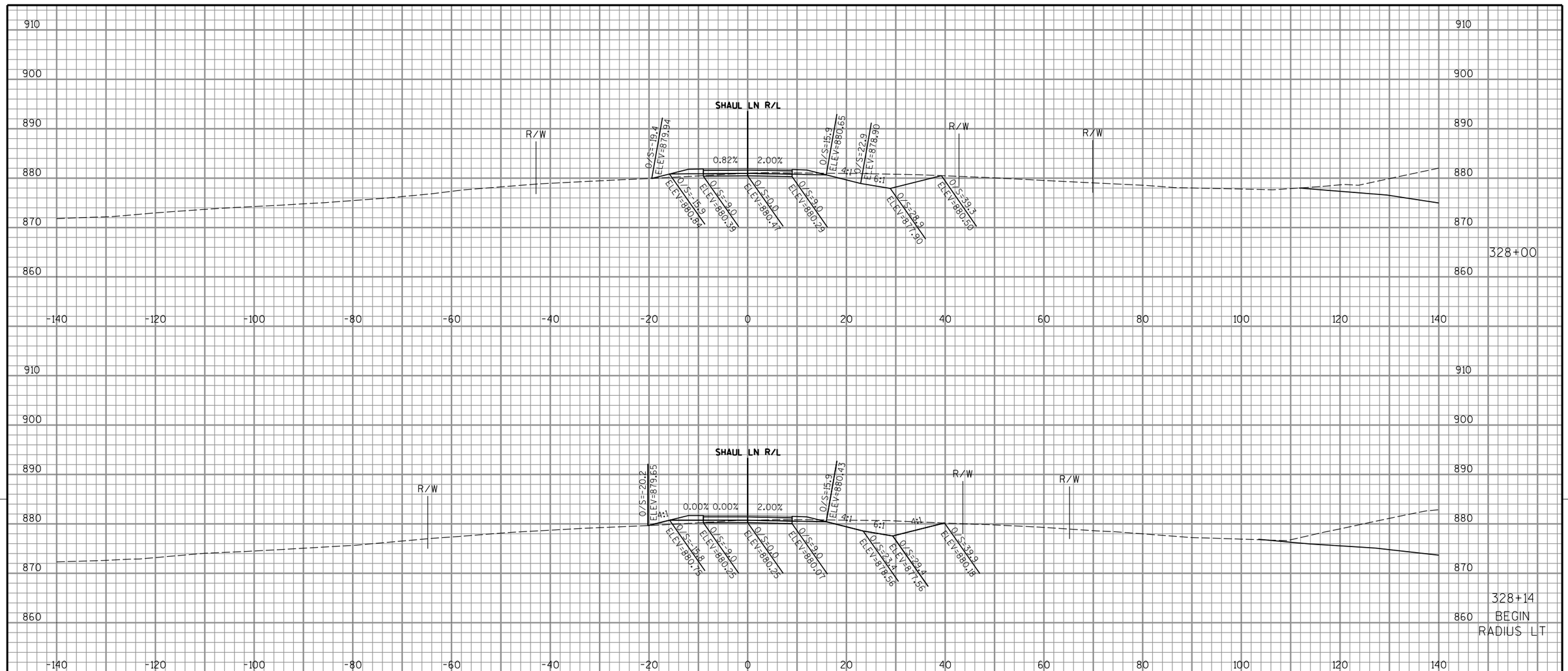
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 807	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn | PLOT DATE : 11/3/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



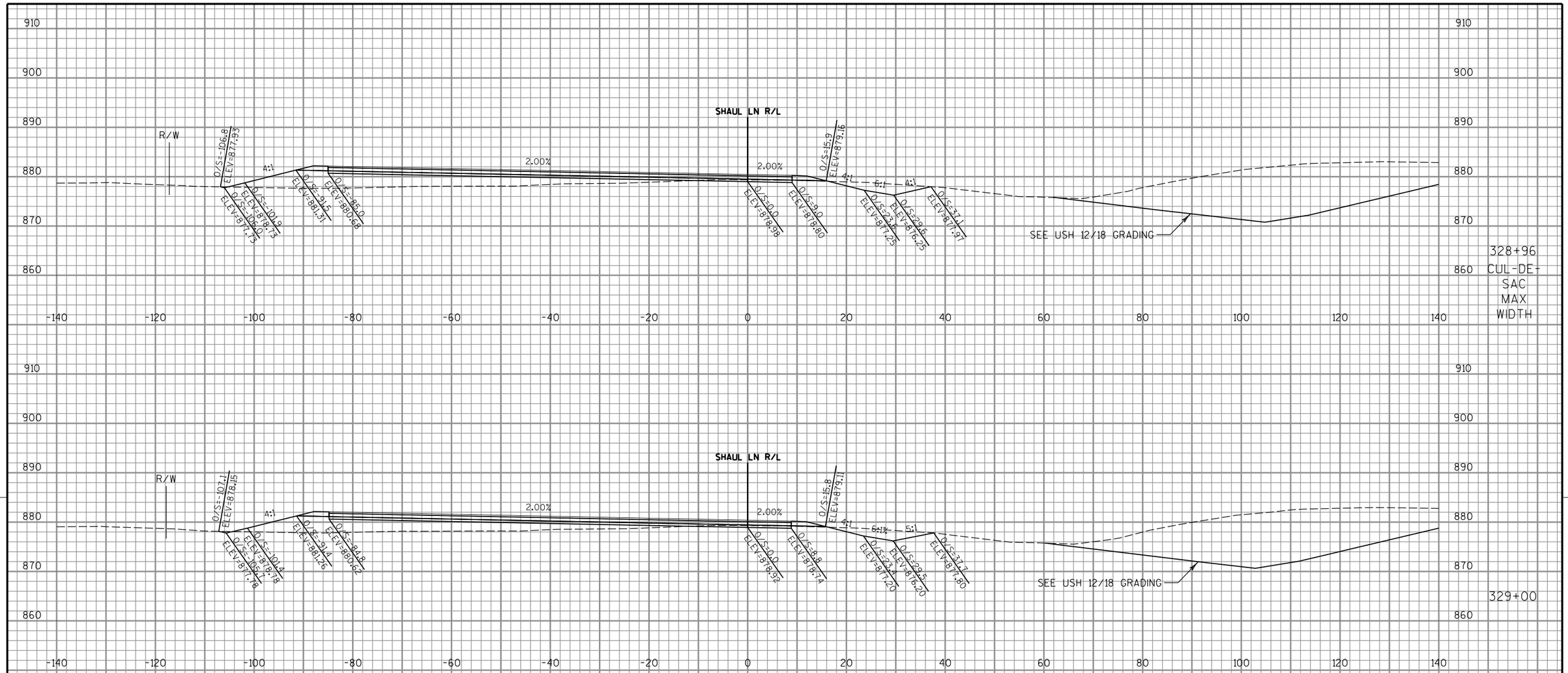
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 808	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

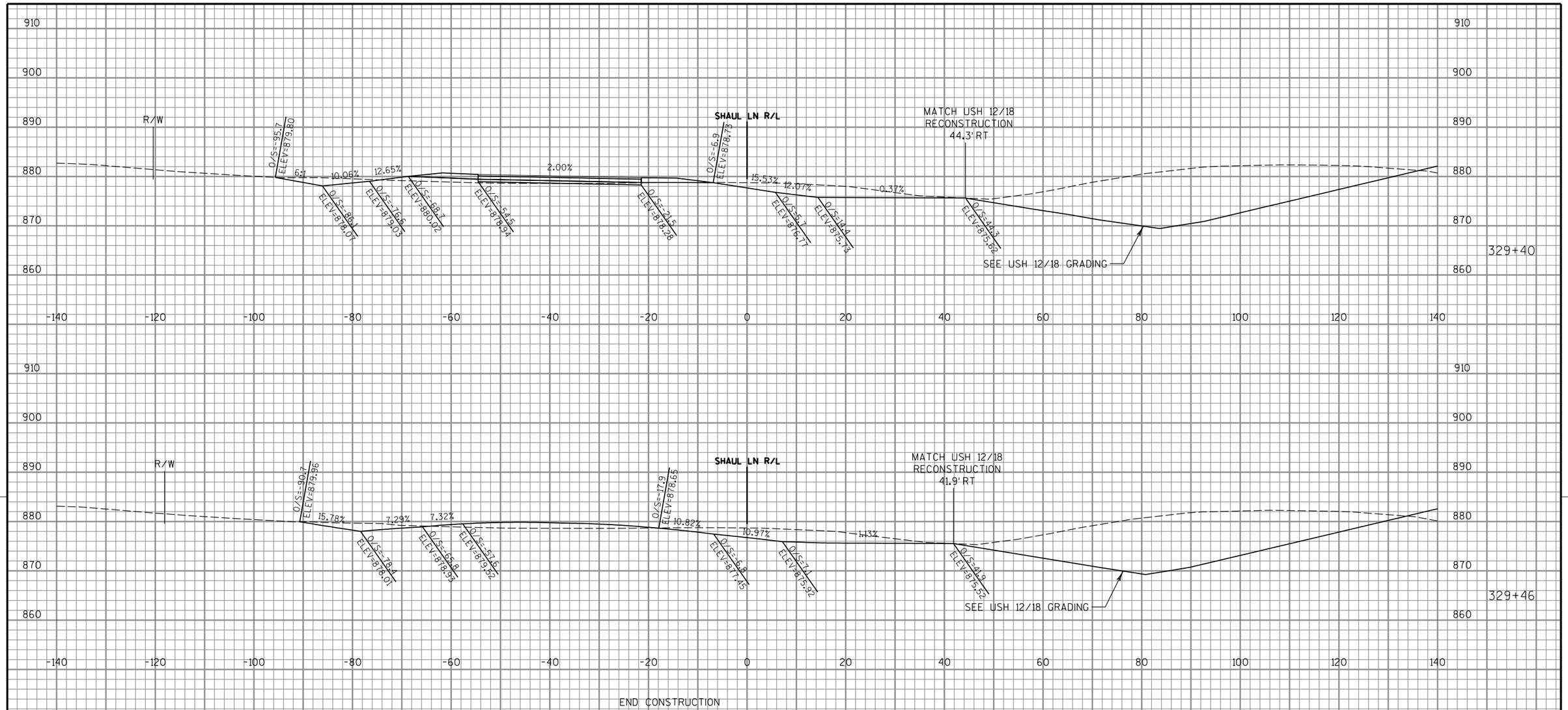
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 809	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

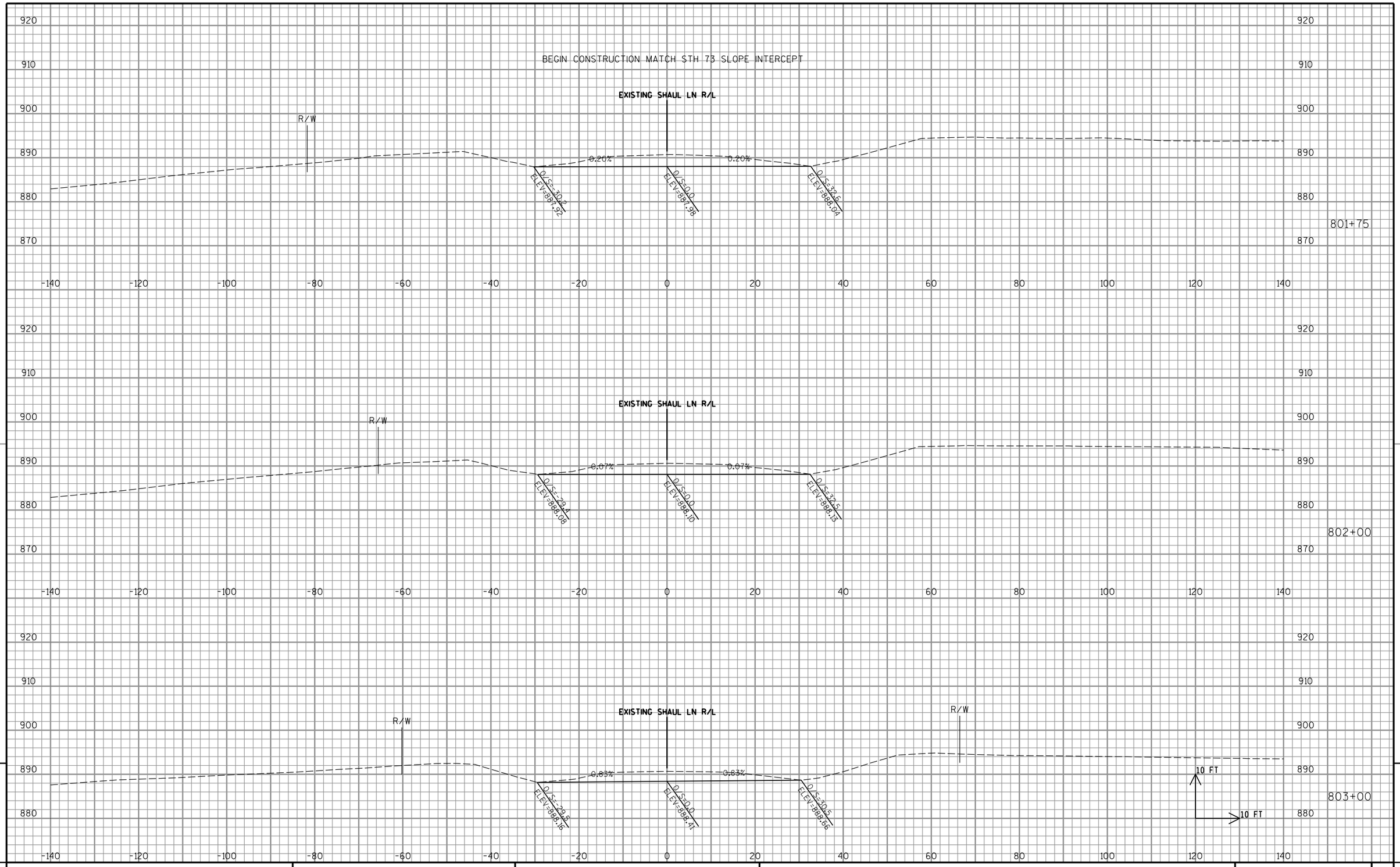
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: SHAUL LN	SHEET 810	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

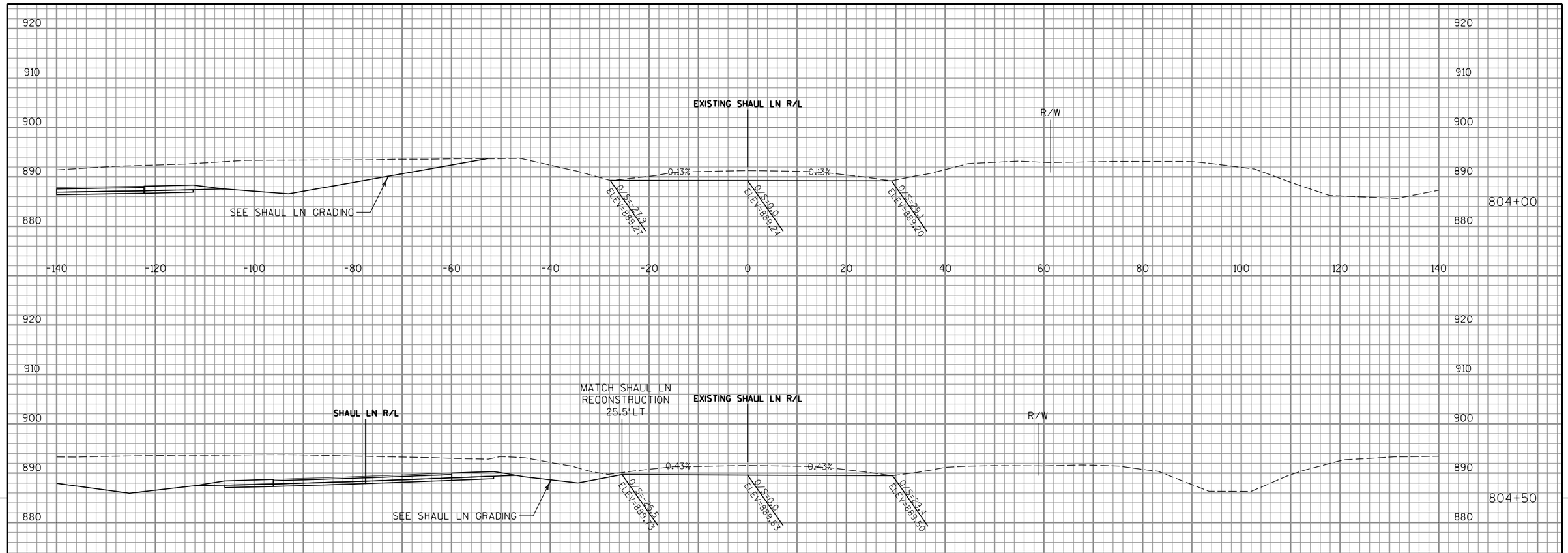
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: EXISTING SHAUL LN REMOVAL	SHEET 811	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

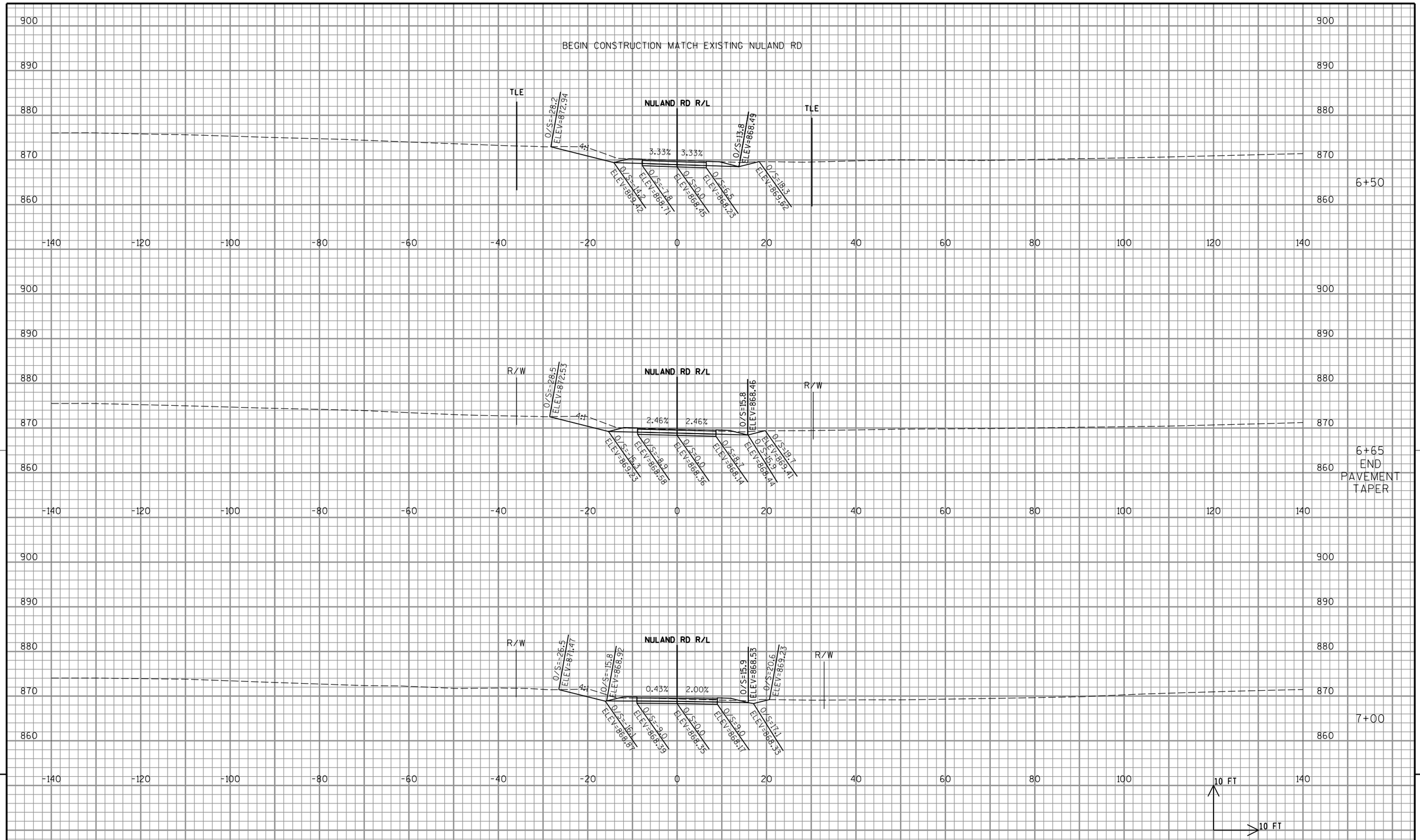


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: EXISTING SHAUL LN REMOVAL	SHEET 812	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090205_xs_SHAUL.dgn PLOT DATE : 11/3/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

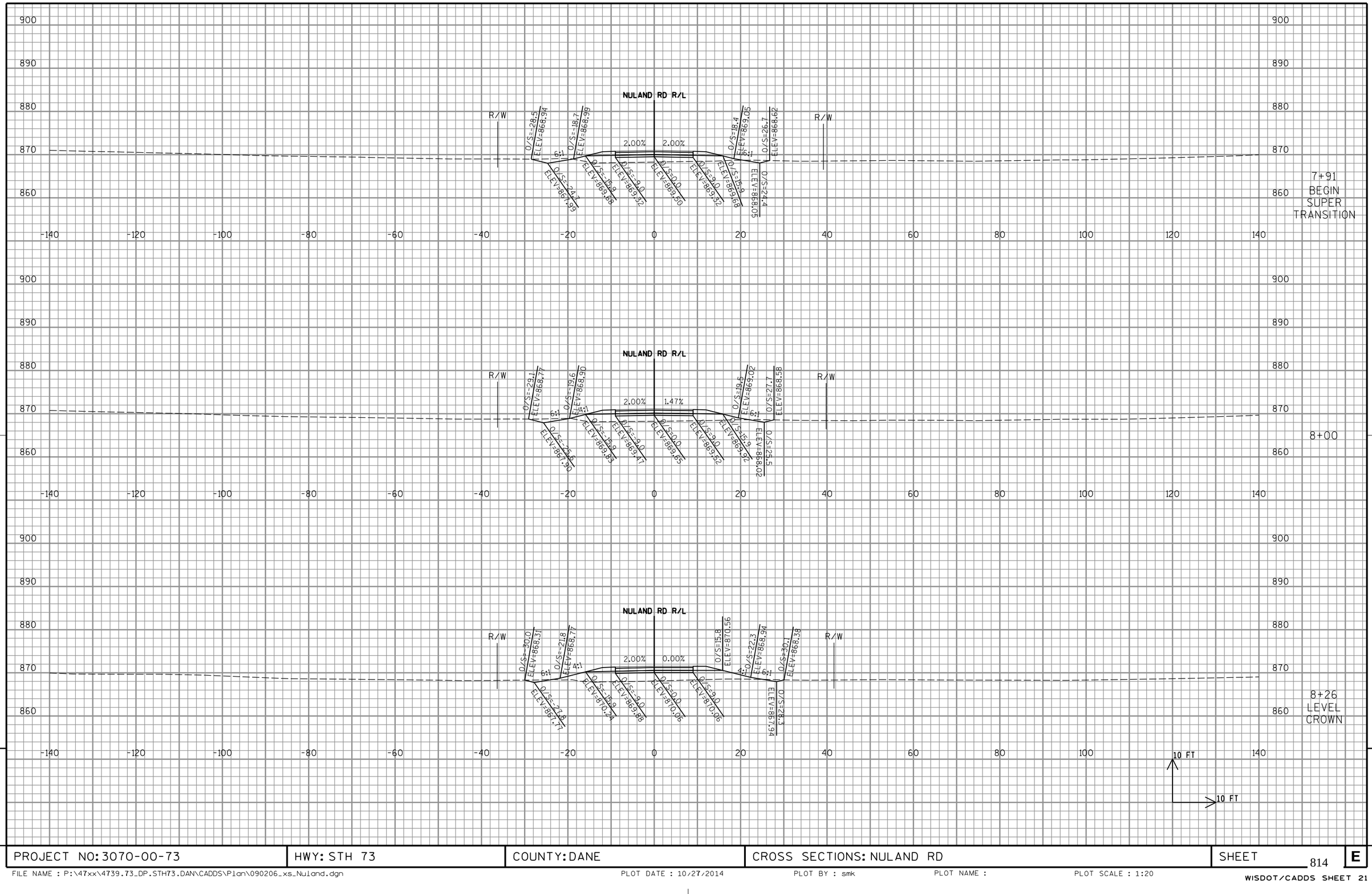
BEGIN CONSTRUCTION MATCH EXISTING NULAND RD



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: NULAND RD	SHEET 813	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090206_xs_Nuland.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

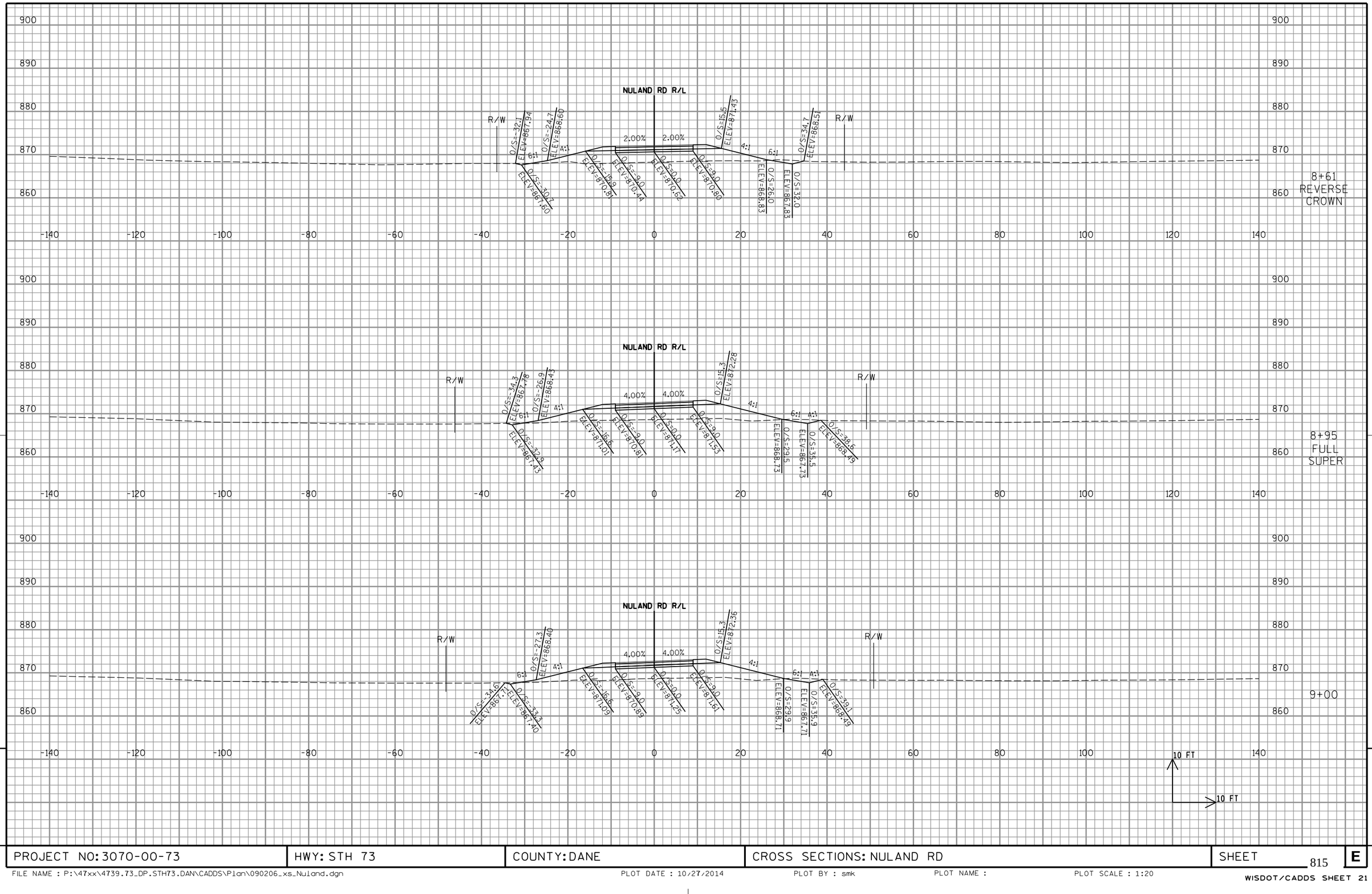
WISDOT/CADDS SHEET 21



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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: NULAND RD	SHEET 814	E



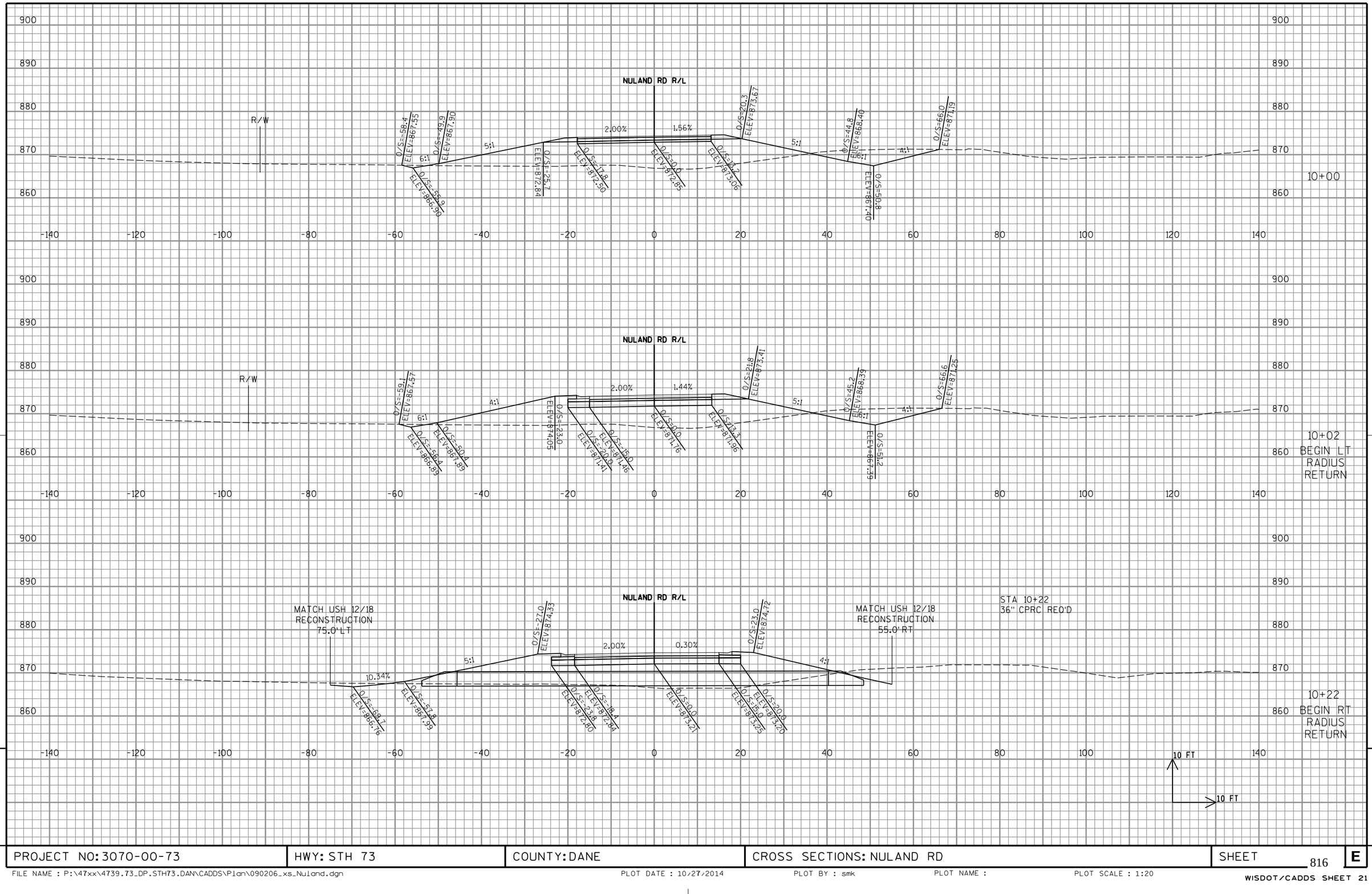
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: NULAND RD	SHEET 815	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090206_xs_Nuland.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

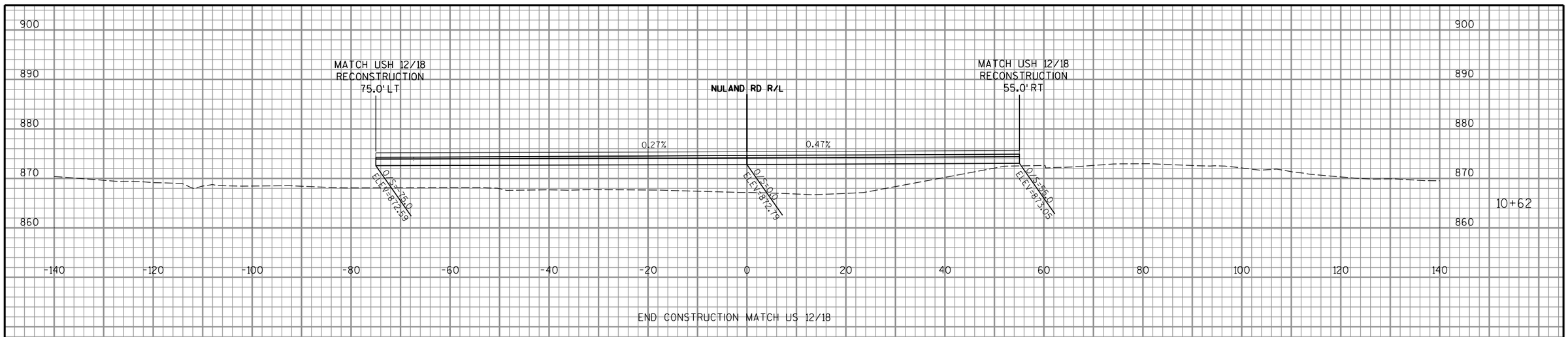
WISDOT/CADDS SHEET 21

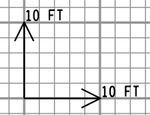


PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: NULAND RD	SHEET 816	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090206_xs_Nuland.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21





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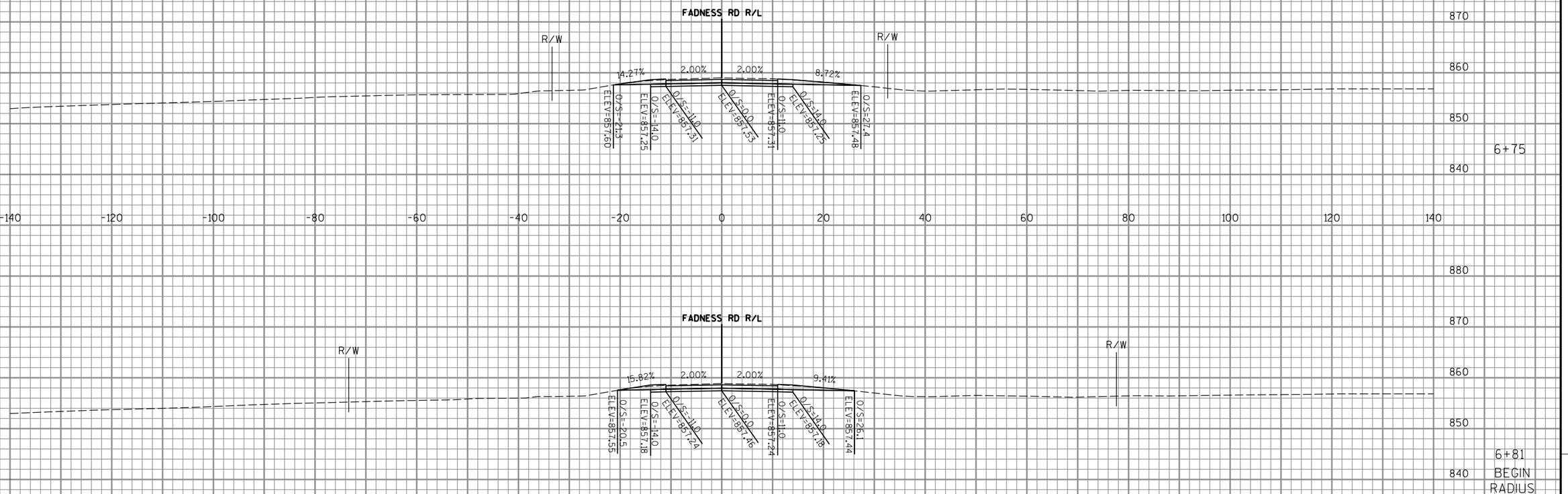
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: NULAND RD	SHEET 817	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090206_xs_Nuland.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

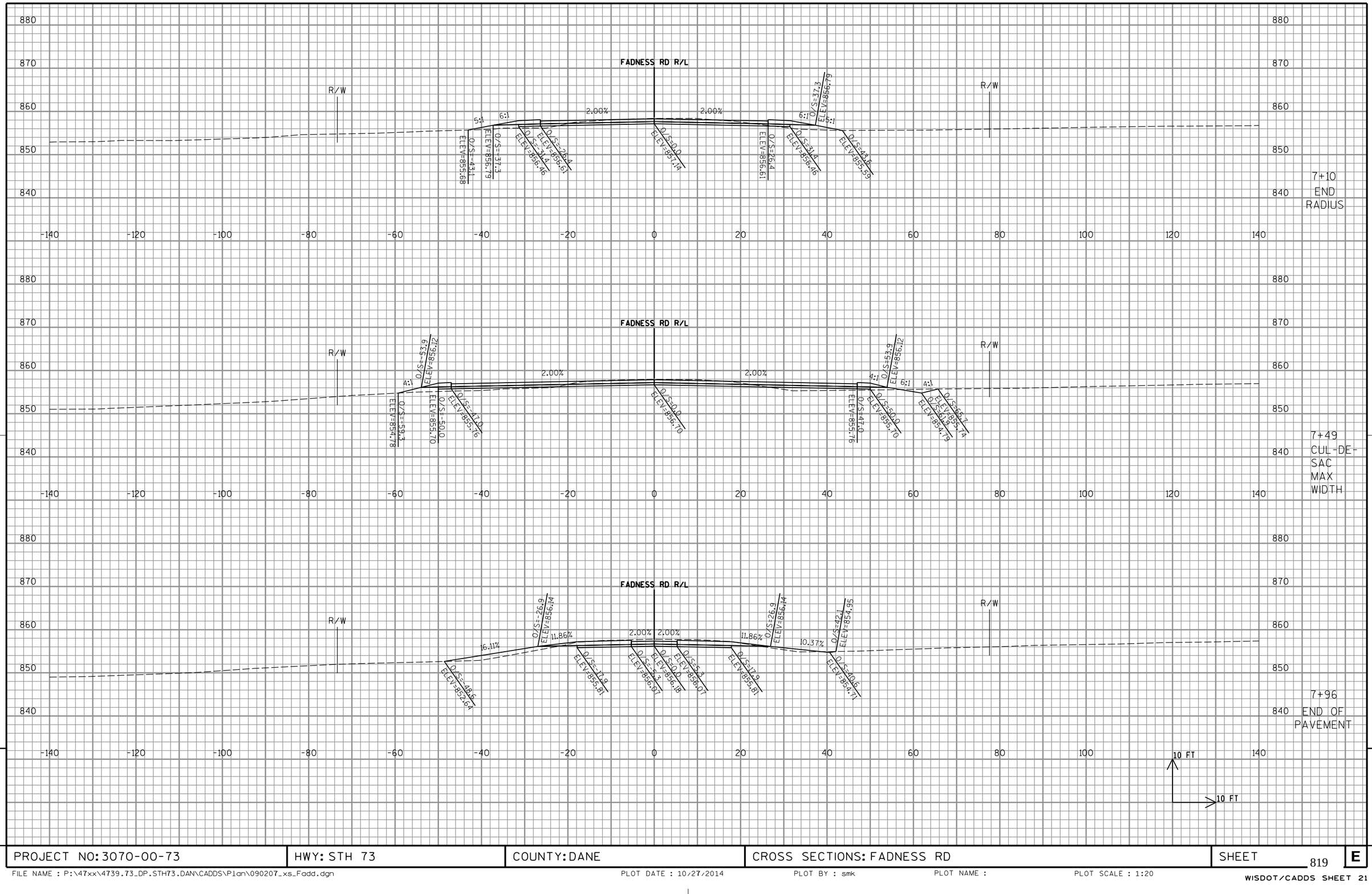
BEGIN CONSTRUCTION MATCH EXISTING FADNESS RD



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: FADNESS RD	SHEET 818	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090207_xs_Fadd.dgn | PLOT DATE : 10/27/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

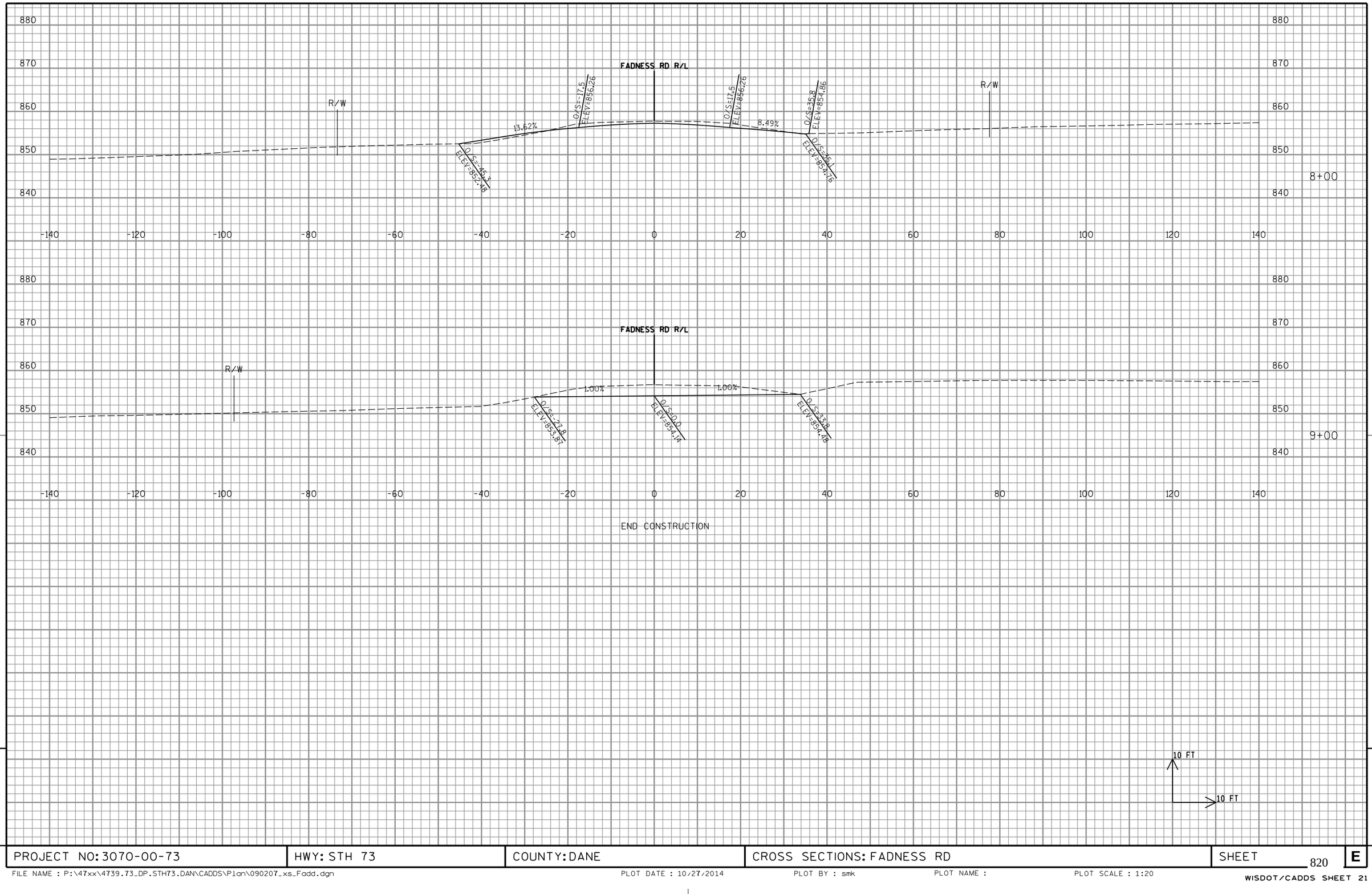
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: FADNESS RD	SHEET 819	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090207_xs_Fadd.dgn | PLOT DATE : 10/27/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



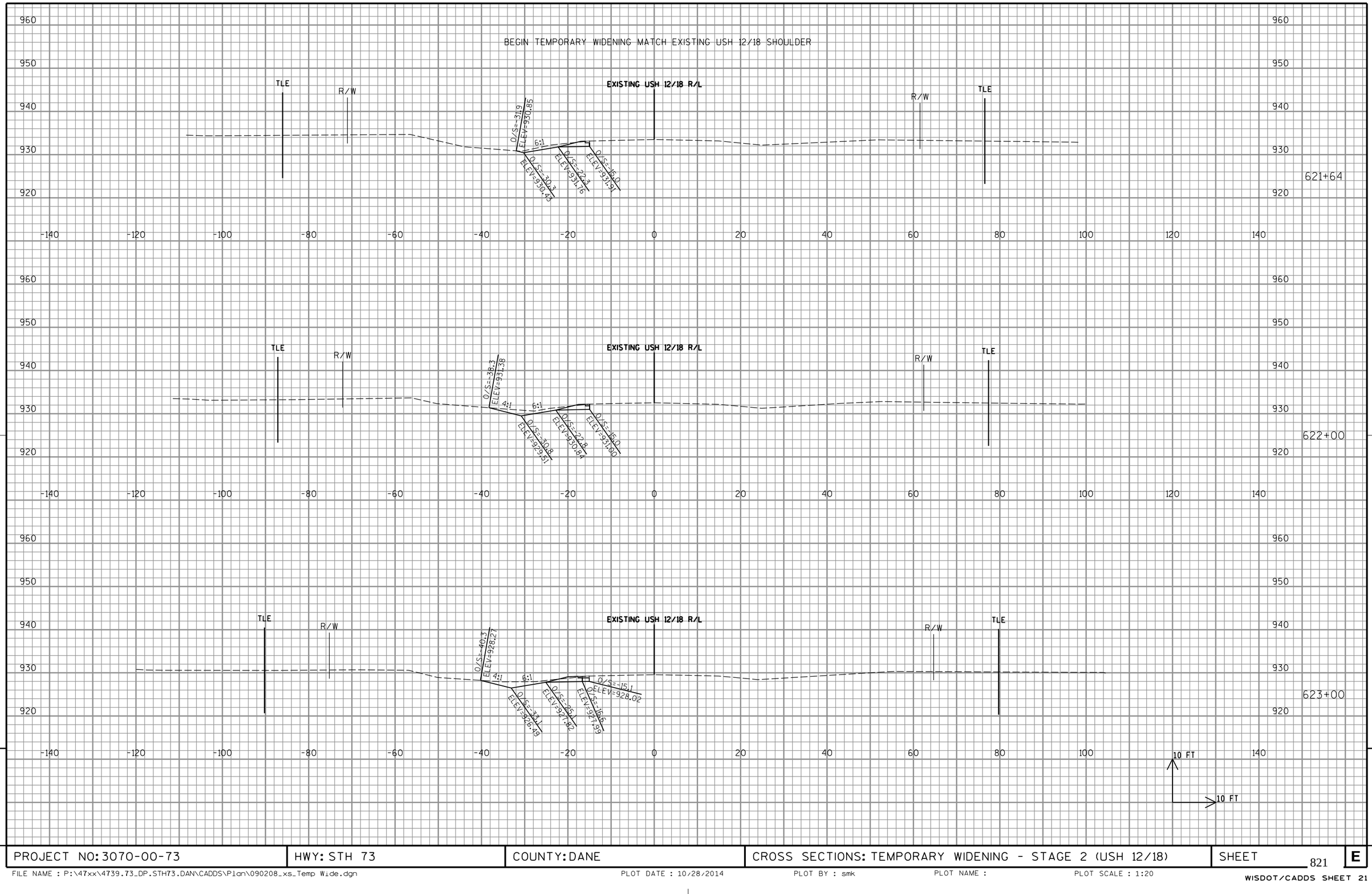
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: FADNESS RD	SHEET 820	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090207_xs_Fadd.dgn PLOT DATE : 10/27/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

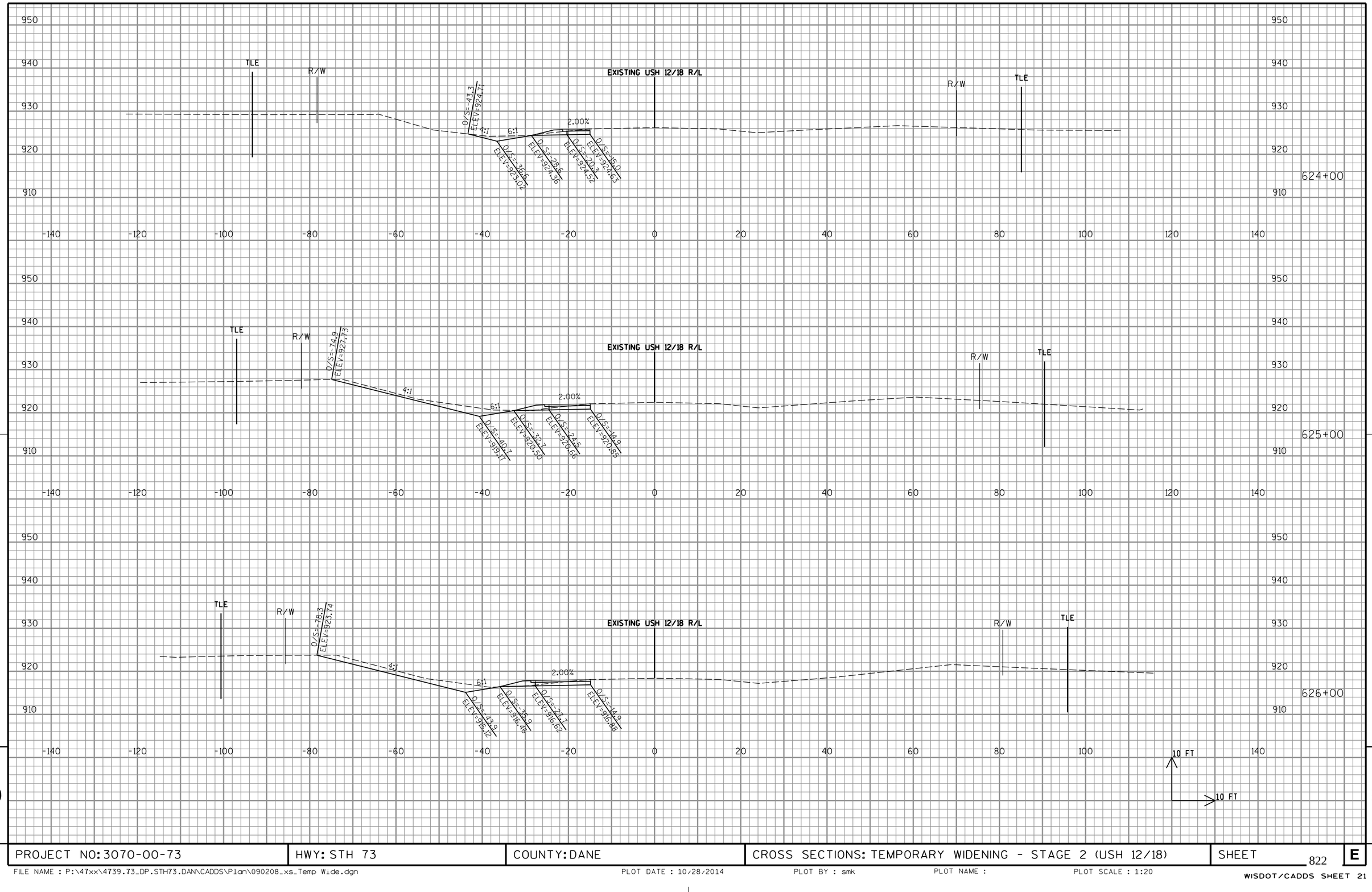
BEGIN TEMPORARY WIDENING MATCH EXISTING USH 12/18 SHOULDER



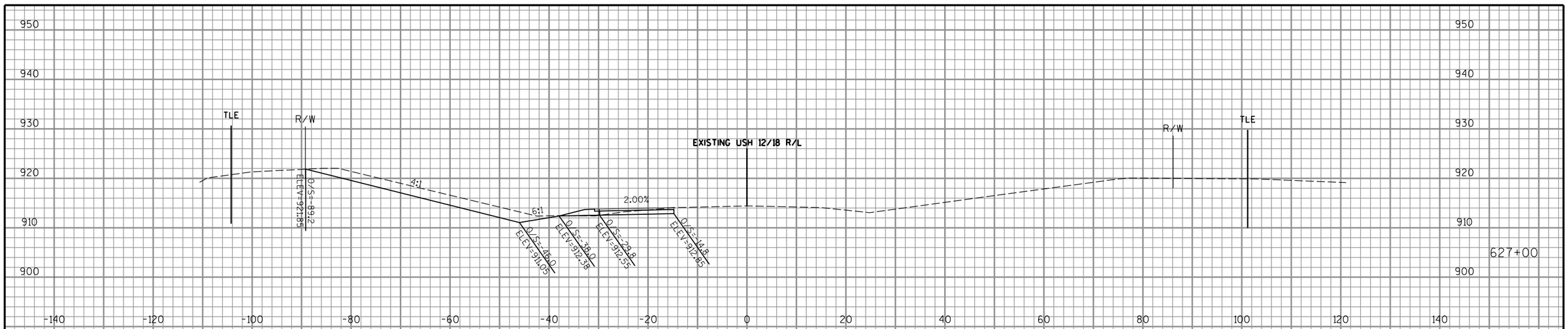
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 821	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn | PLOT DATE : 10/28/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 822	E



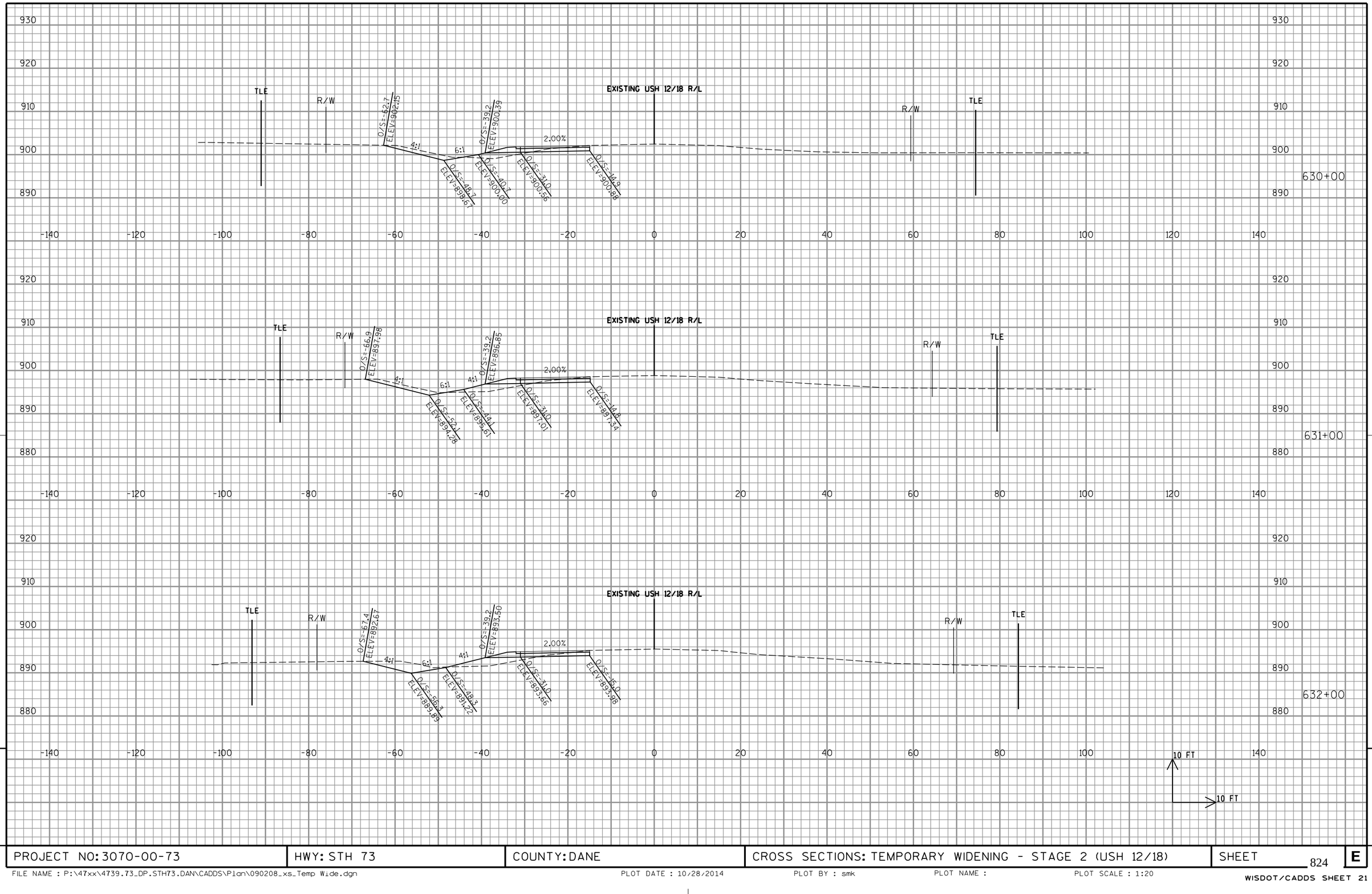
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 823	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

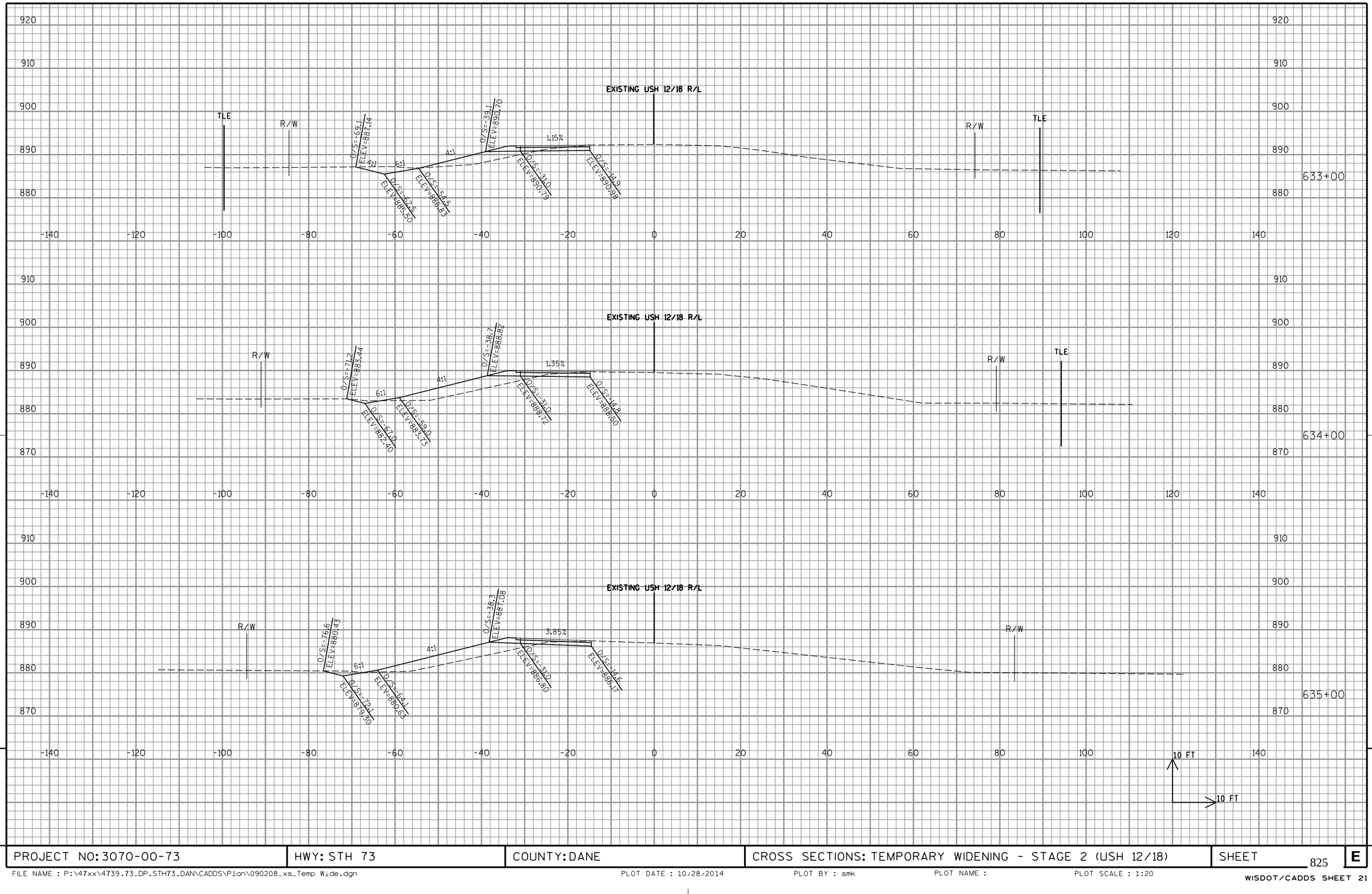
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 824	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



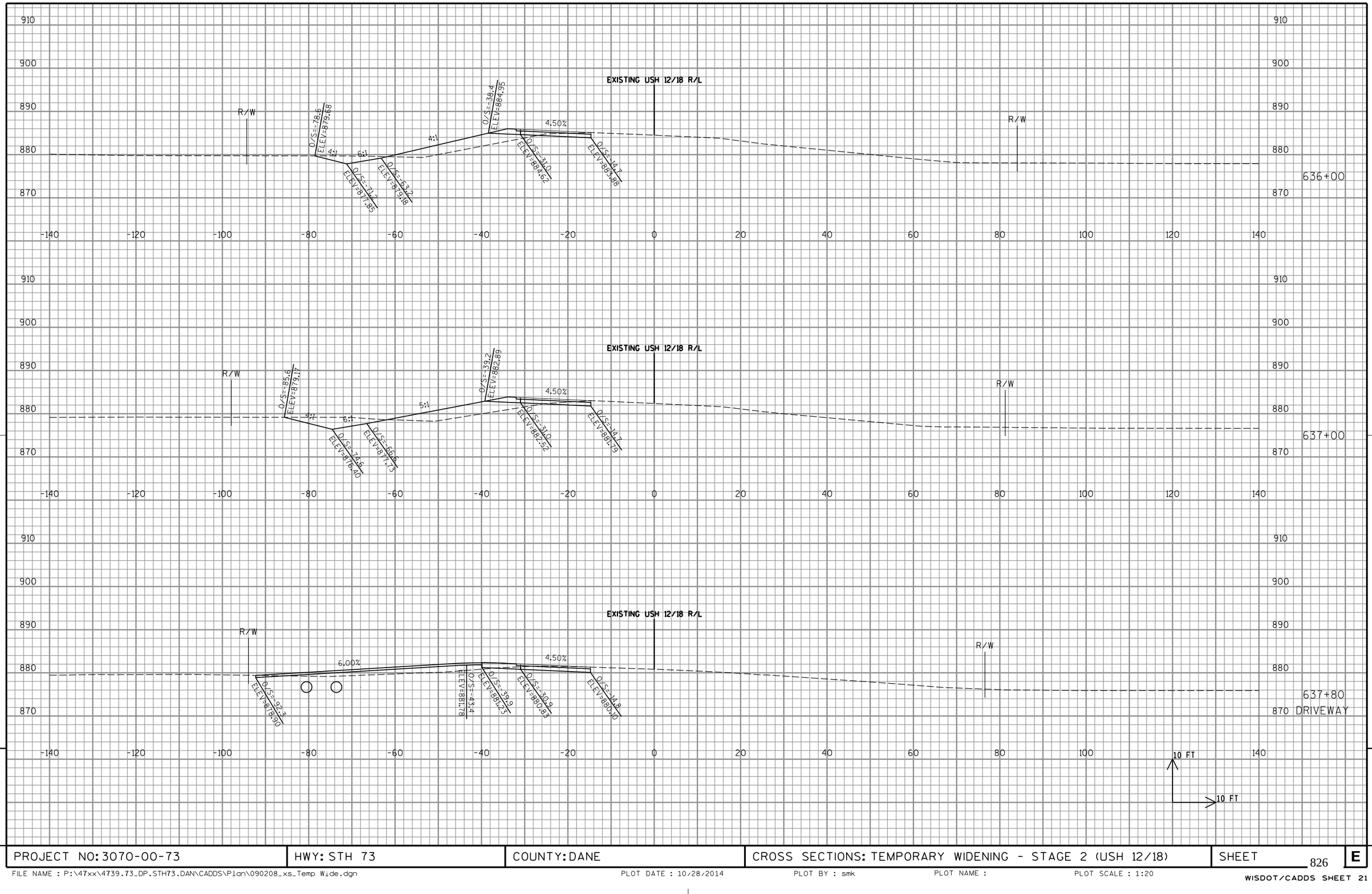
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 825	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

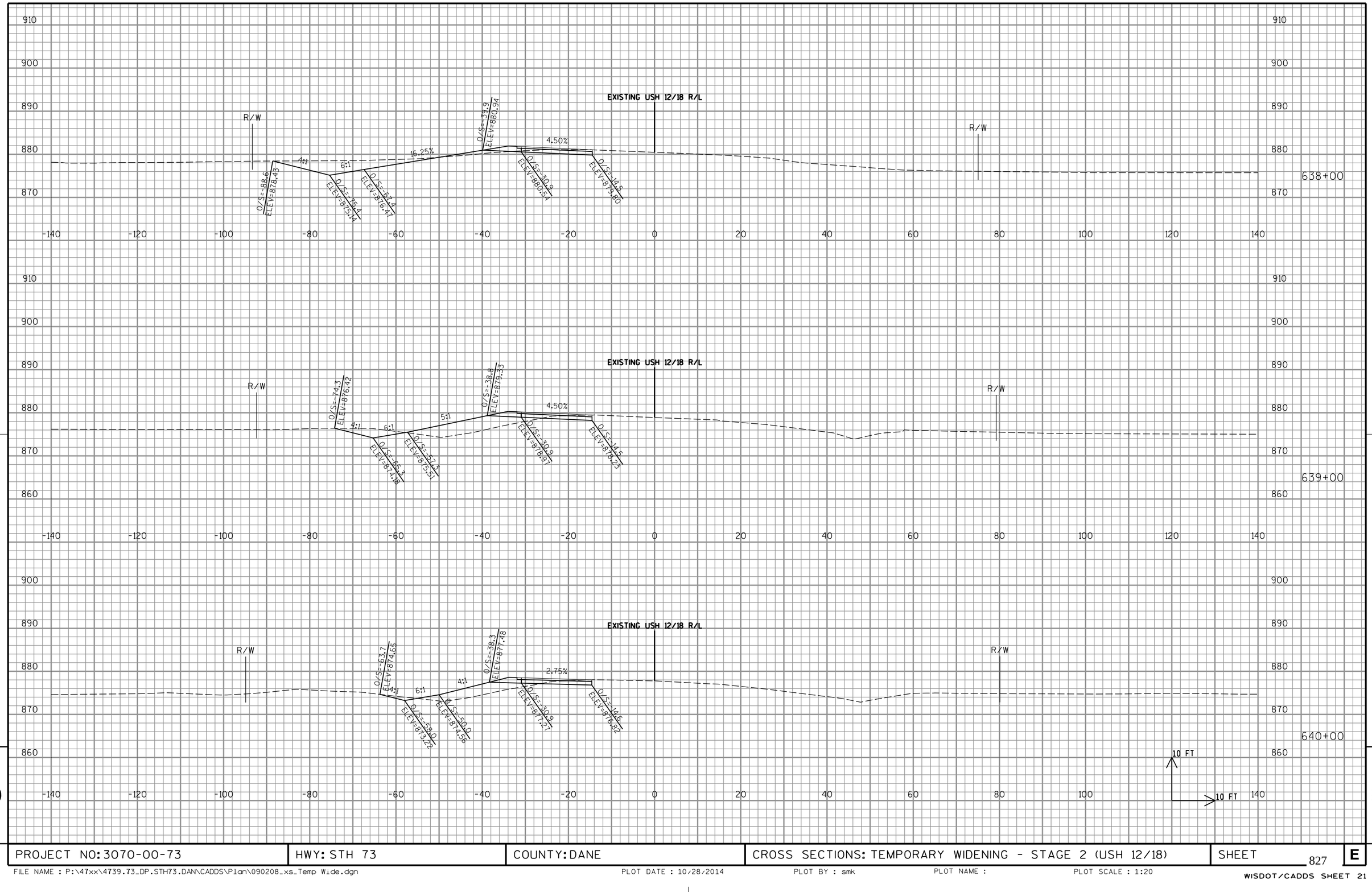
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 826	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn | PLOT DATE : 10/28/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

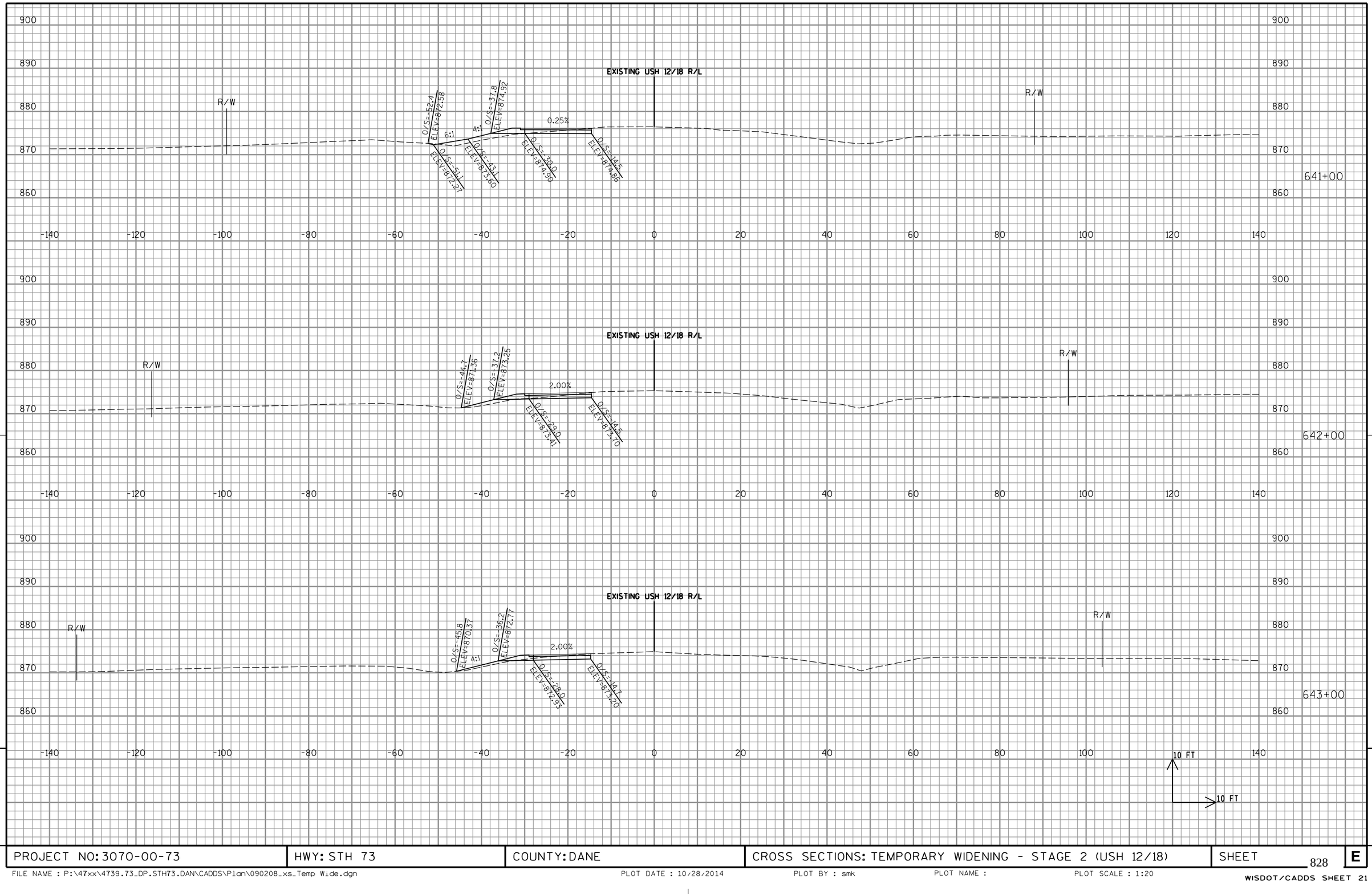
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 827	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

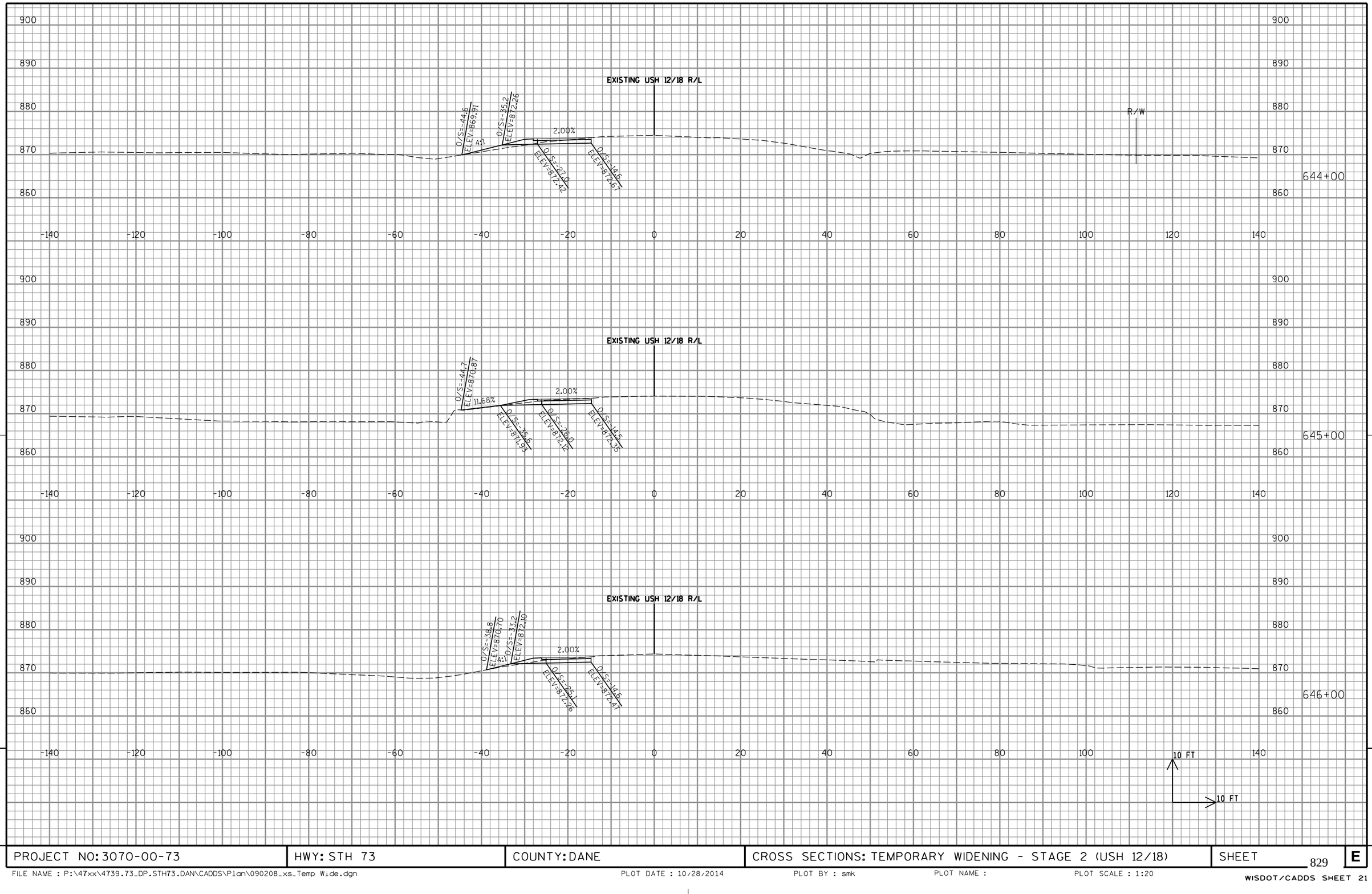
WISDOT/CADDS SHEET 21



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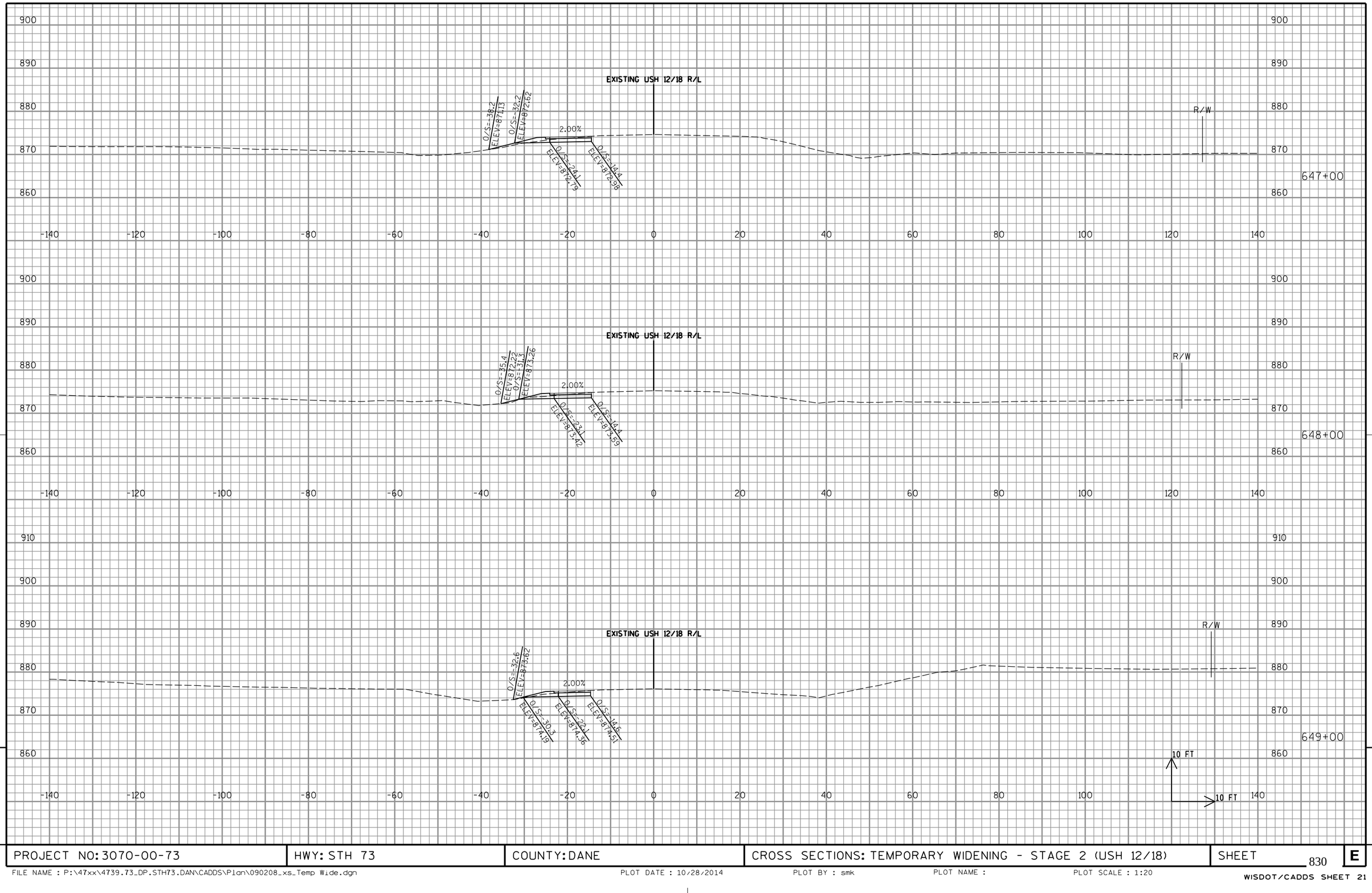
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 828	E



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 829	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

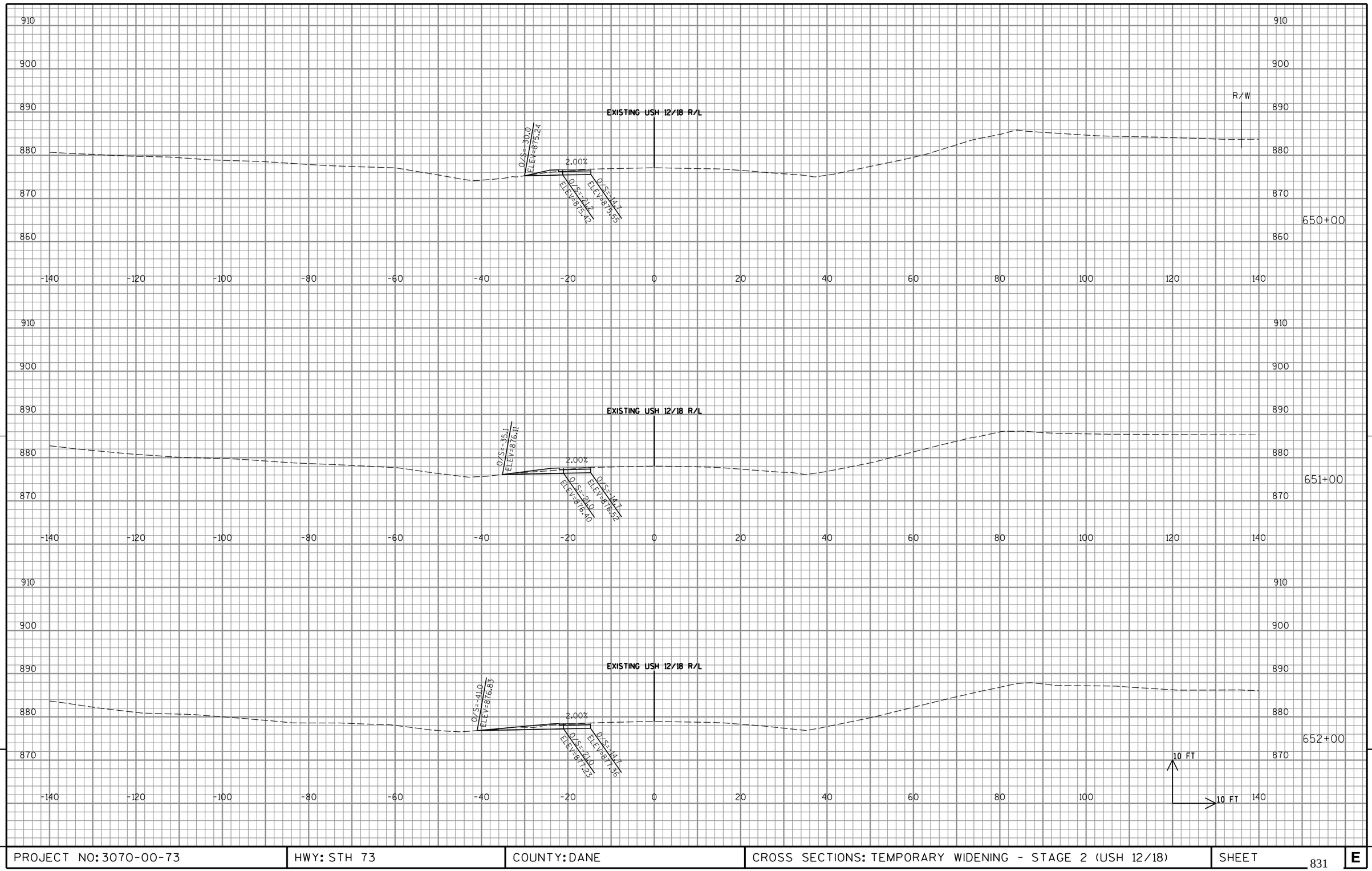
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 830	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn | PLOT DATE : 10/28/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



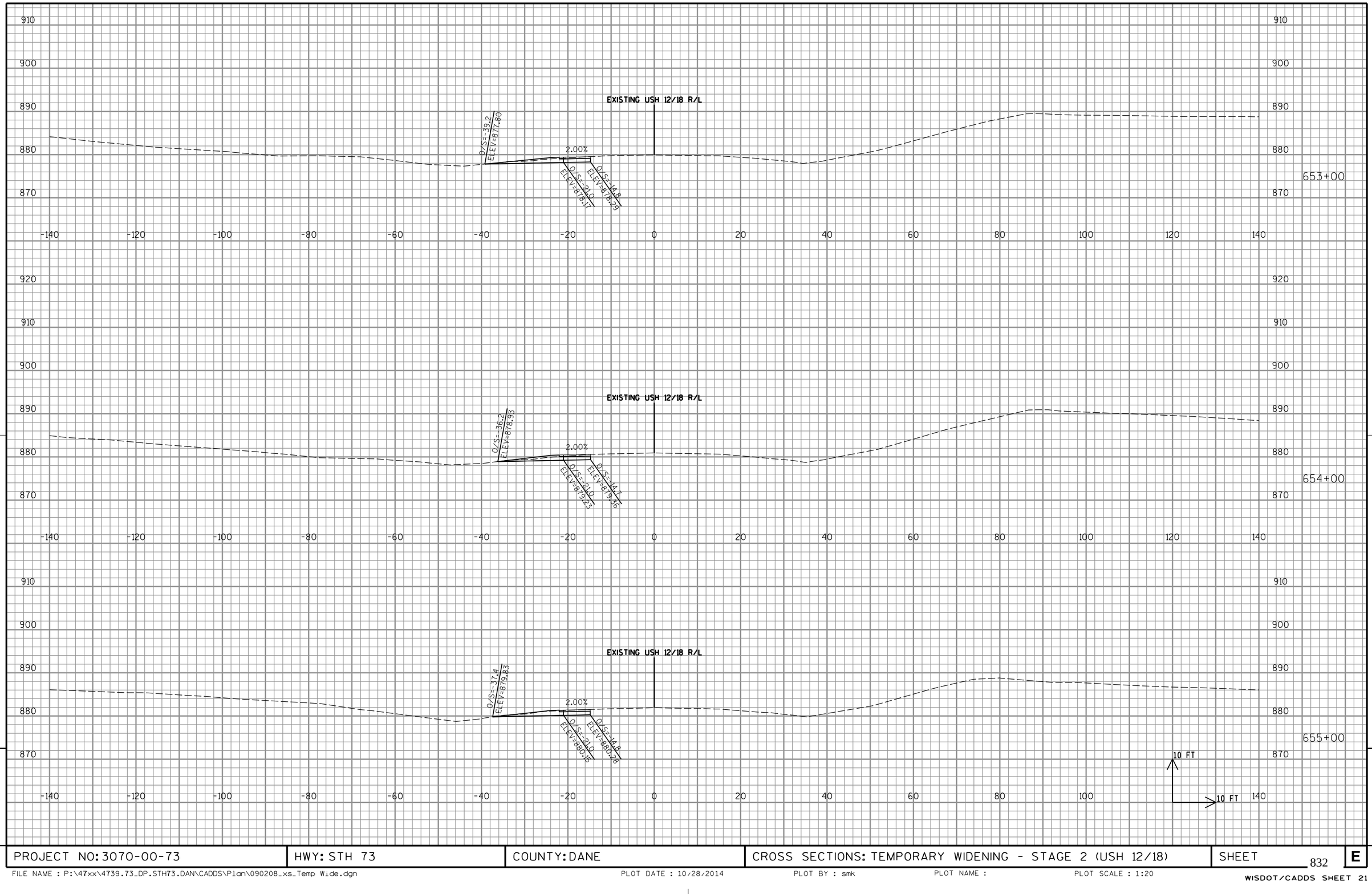
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 831	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn | PLOT DATE : 10/28/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

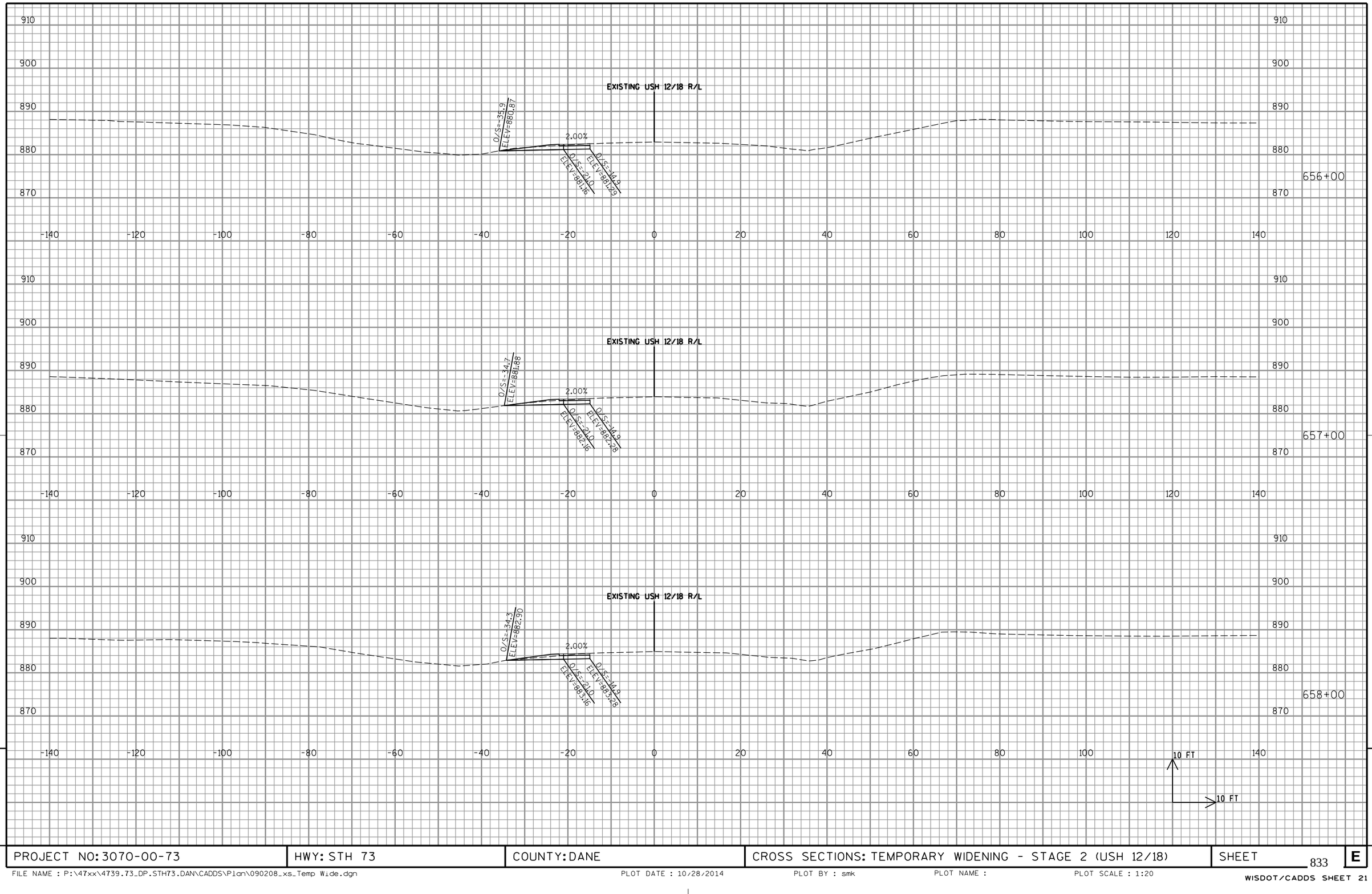
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 832	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

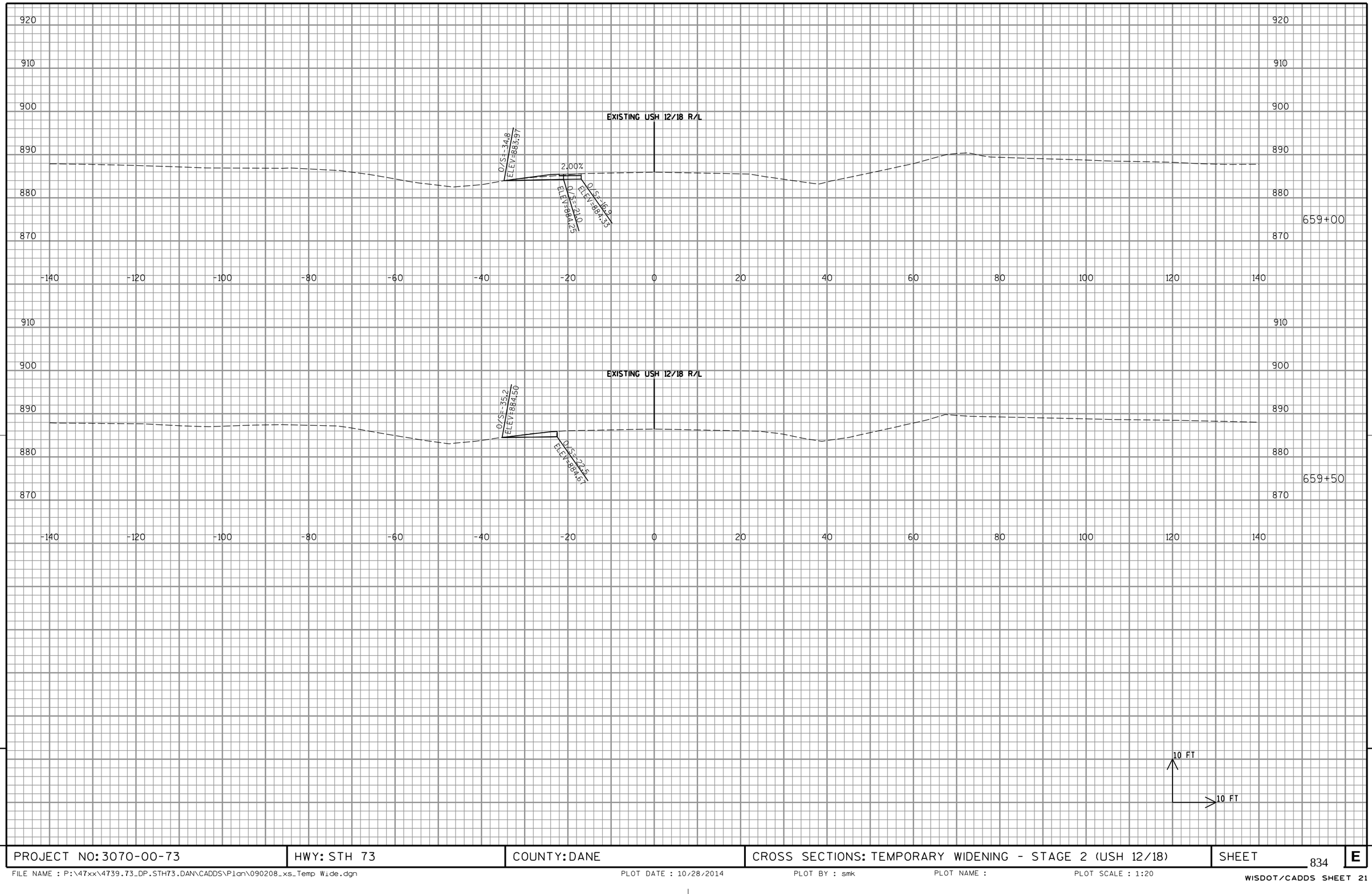
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 833	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



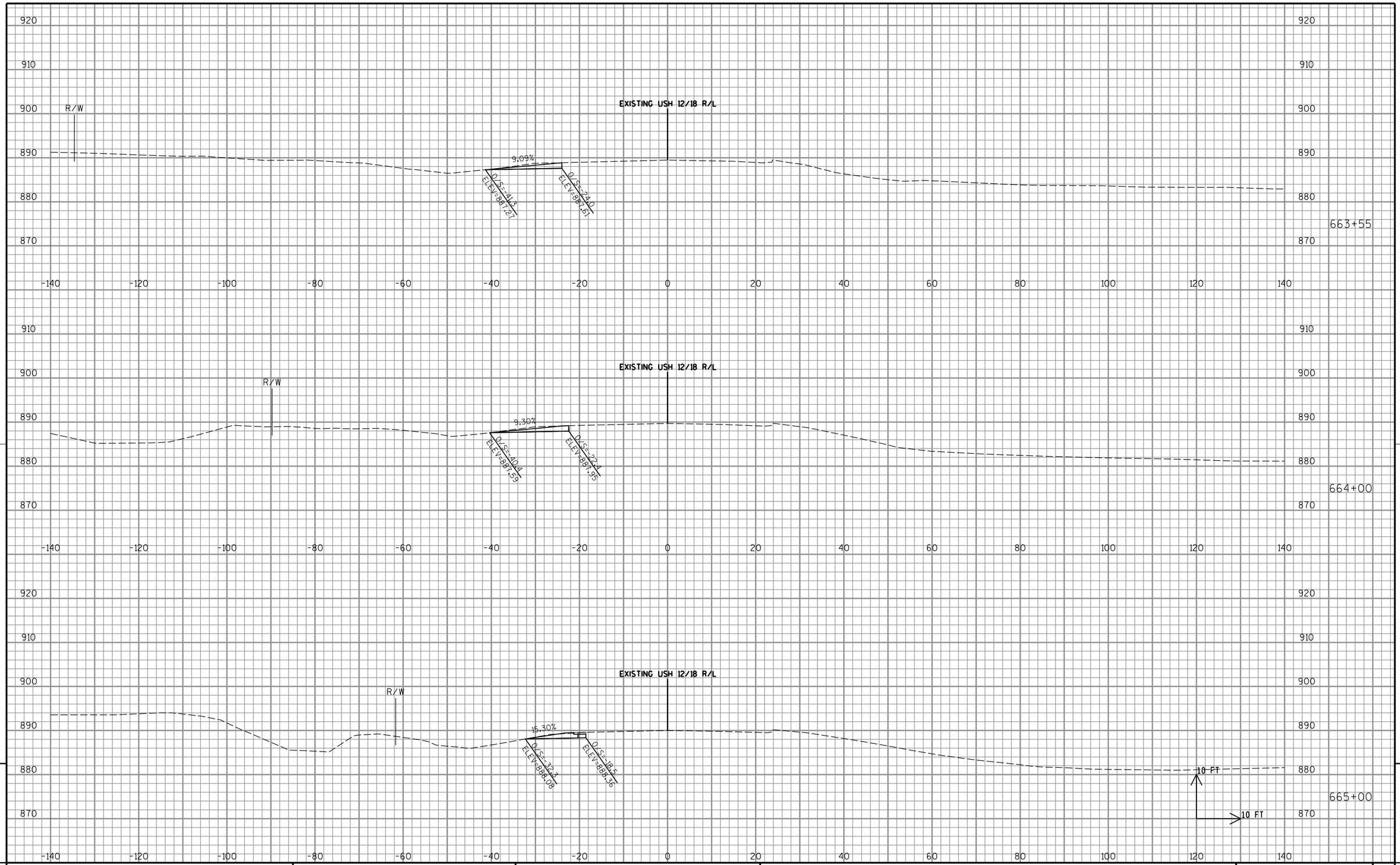
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 834	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



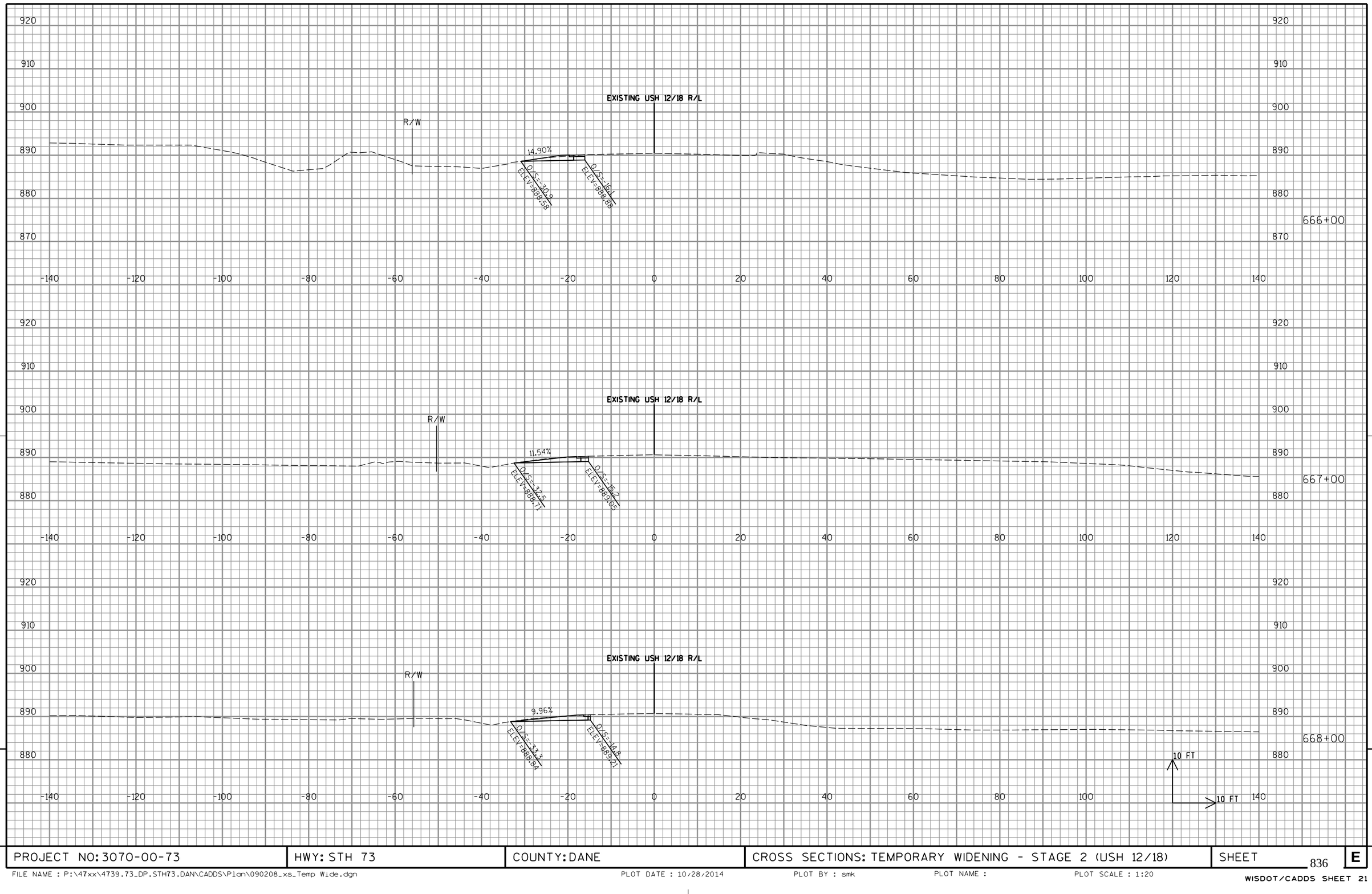
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 835	E

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FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



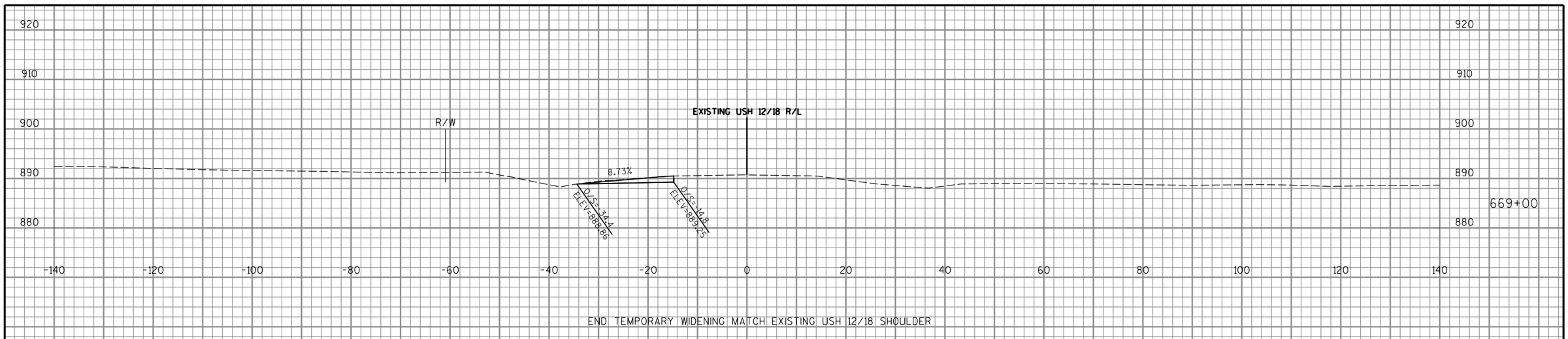
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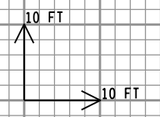
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 836	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



END TEMPORARY WIDENING MATCH EXISTING USH 12/18 SHOULDER



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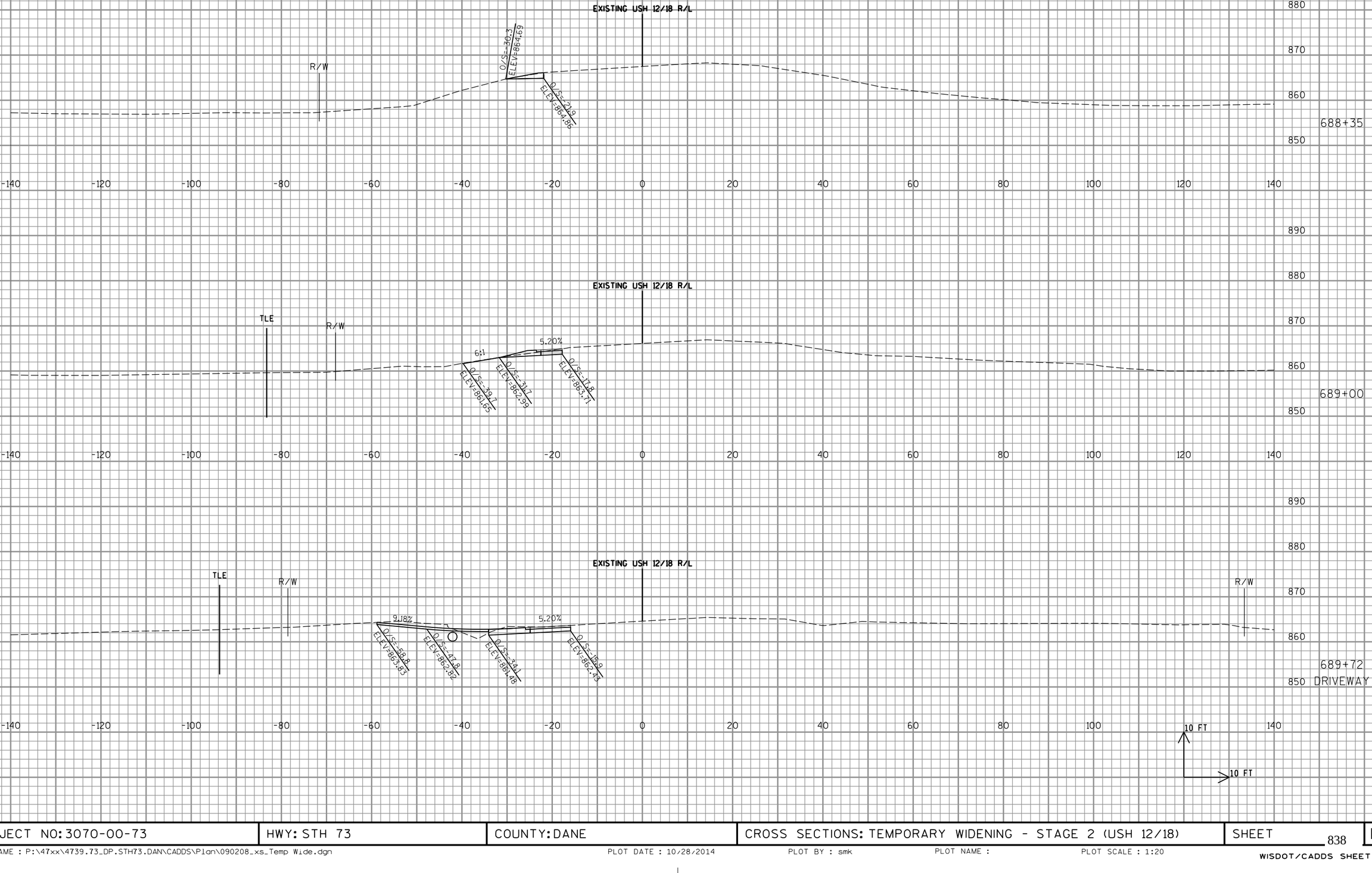
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 837	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

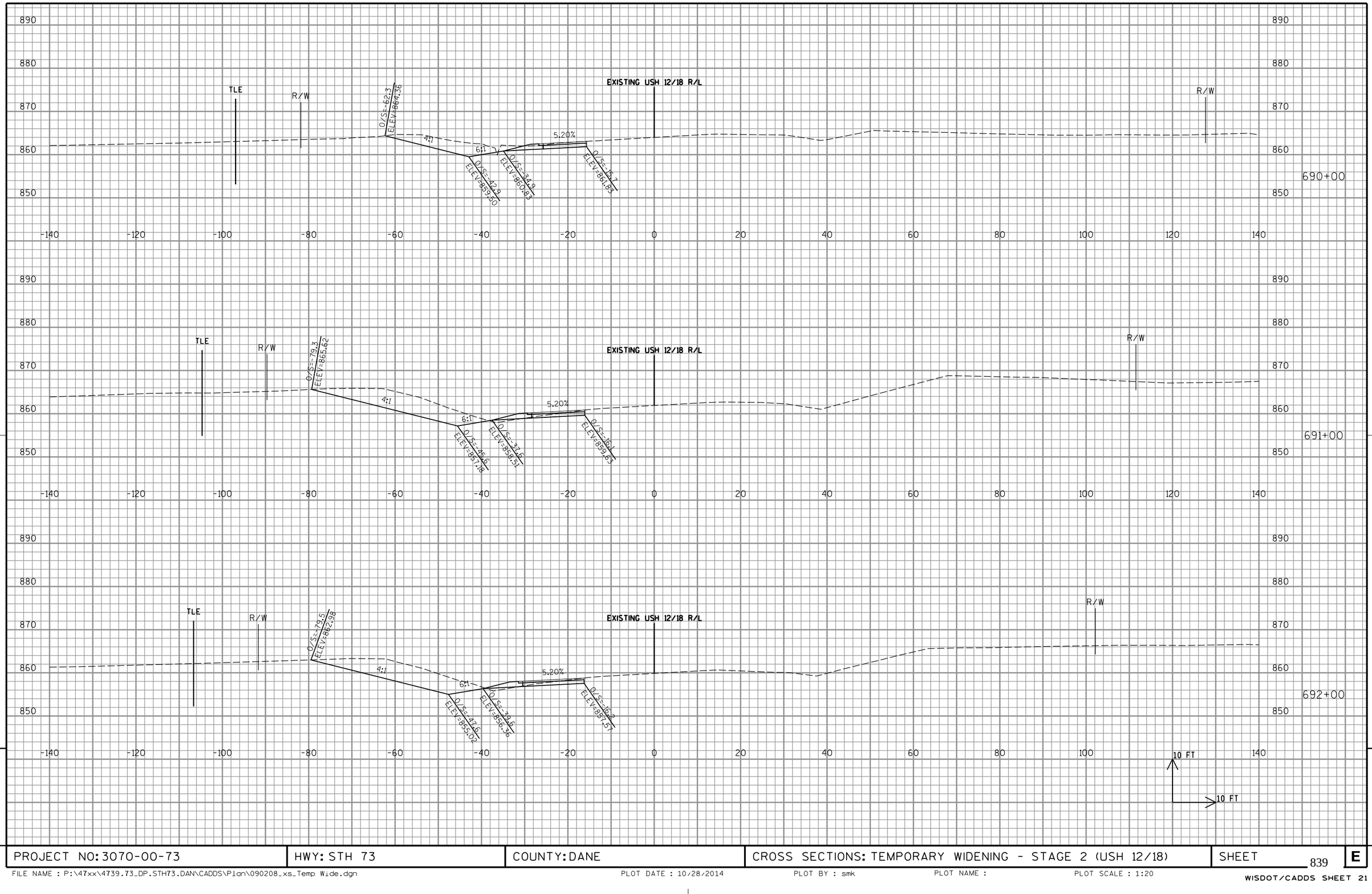
BEGIN TEMPORARY WIDENING MATCH EXISTING USH 12/18 SHOULDER



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 838	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

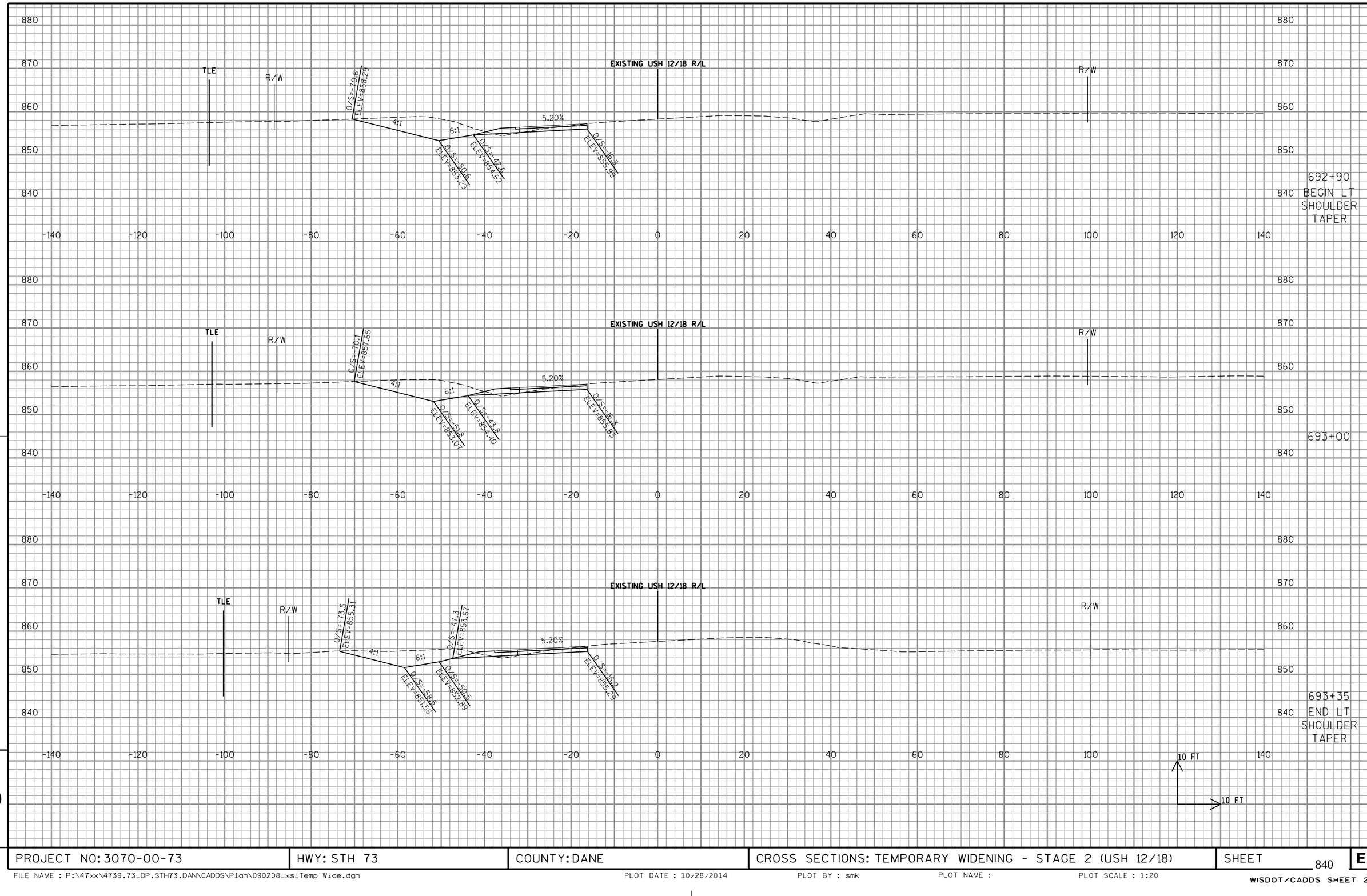
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 839	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

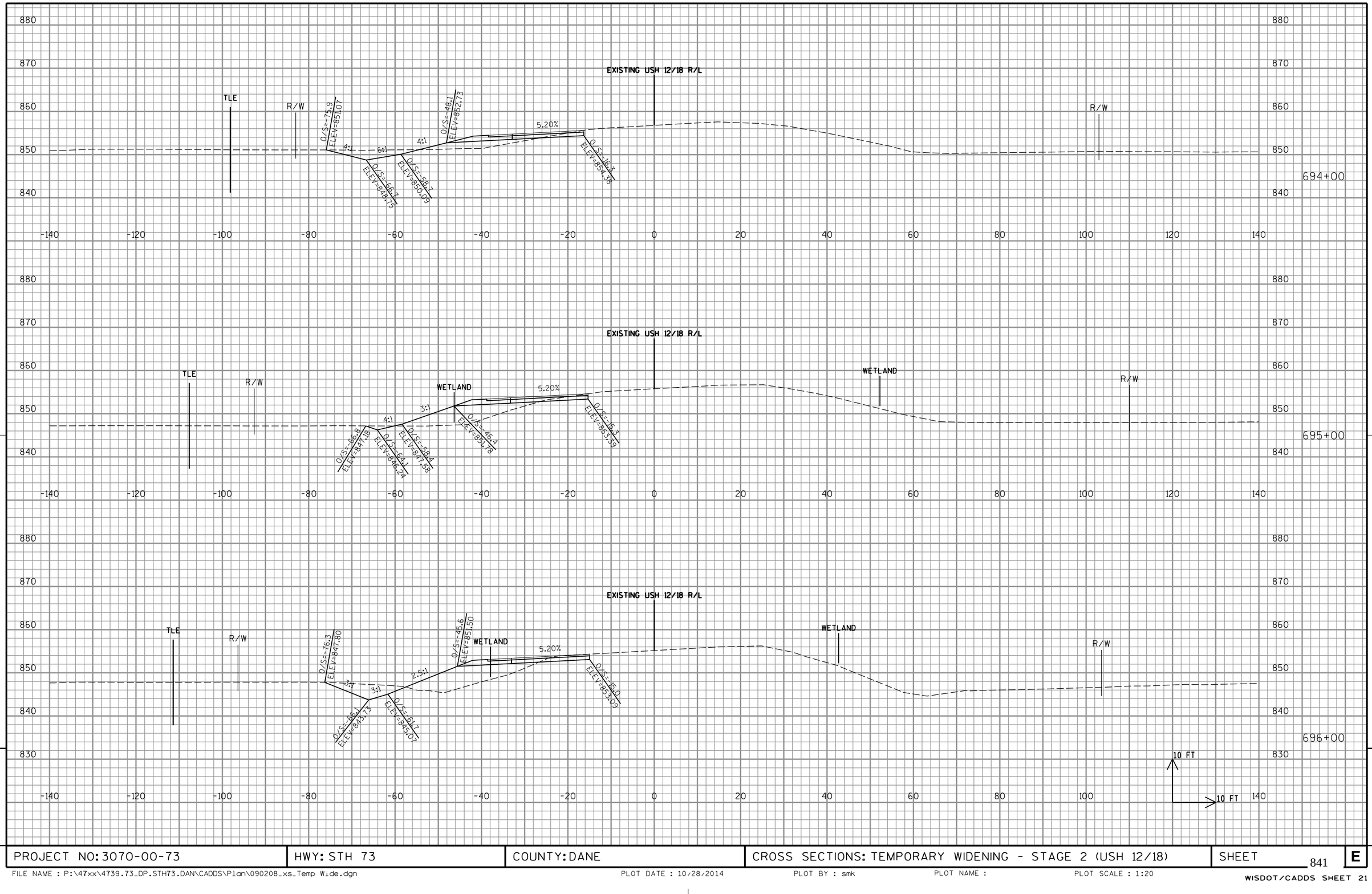


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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 840	E

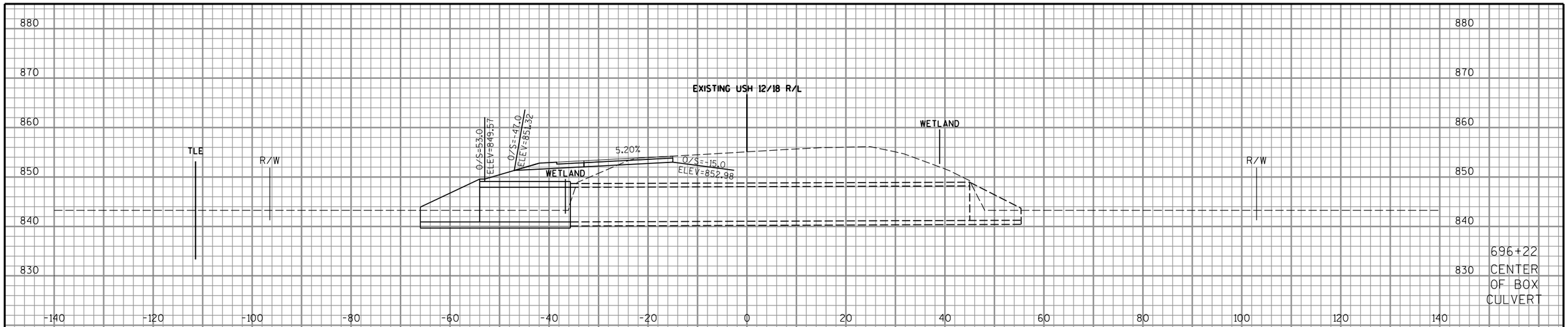
FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn
PLOT DATE : 10/28/2014
PLOT BY : smk
PLOT NAME :
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 841	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



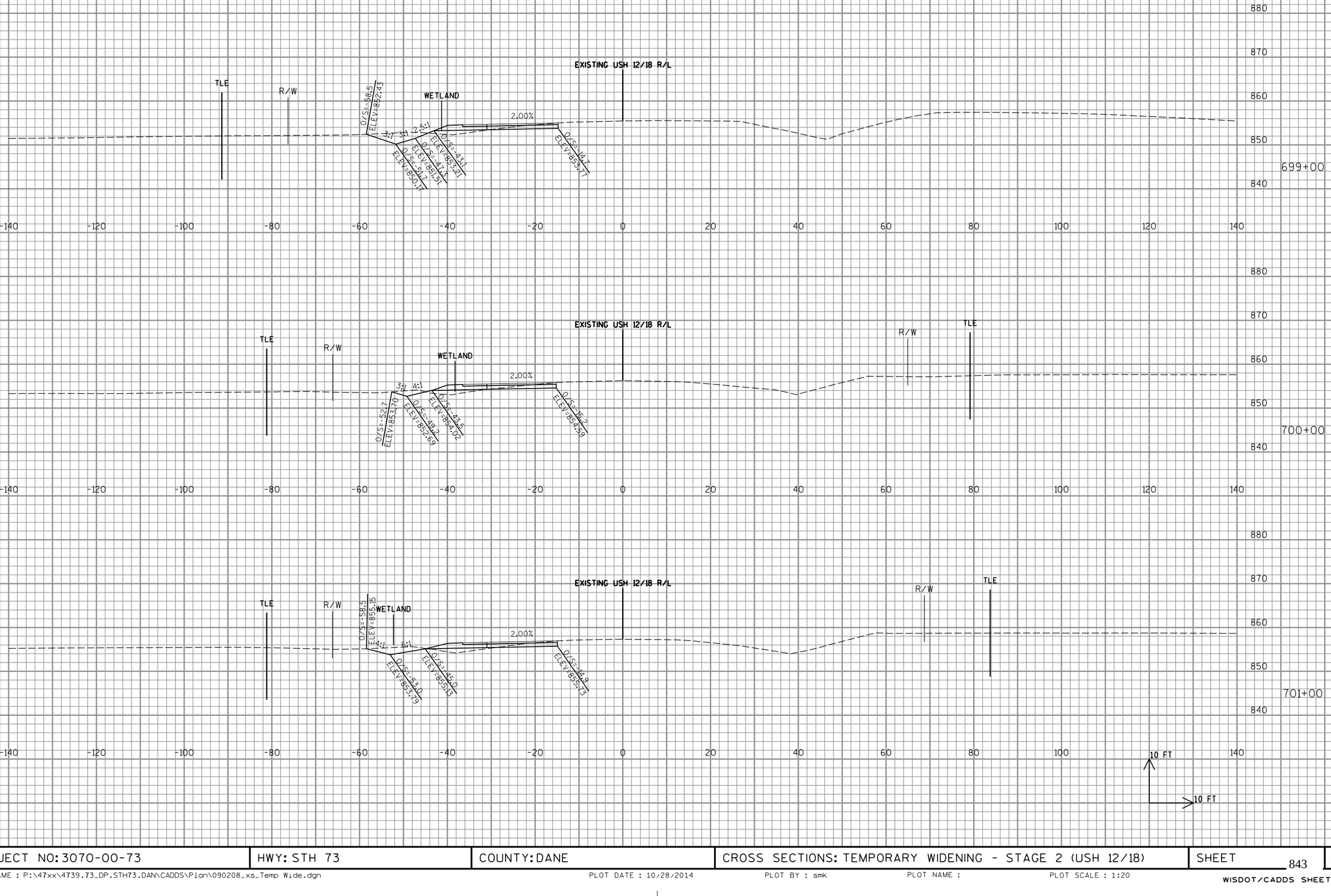
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 842	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

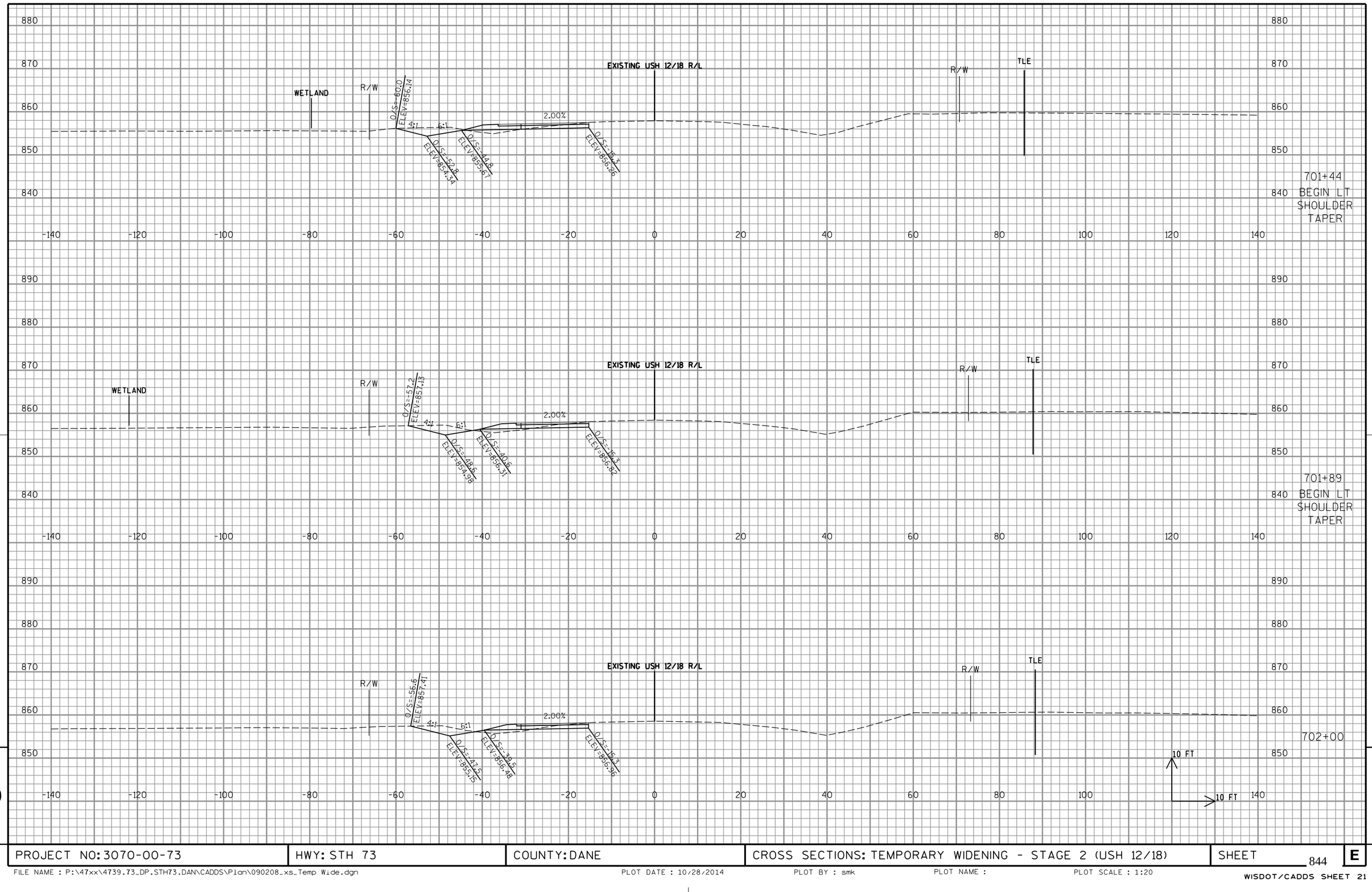


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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 843	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn
PLOT DATE : 10/28/2014
PLOT BY : smk
PLOT NAME :
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21



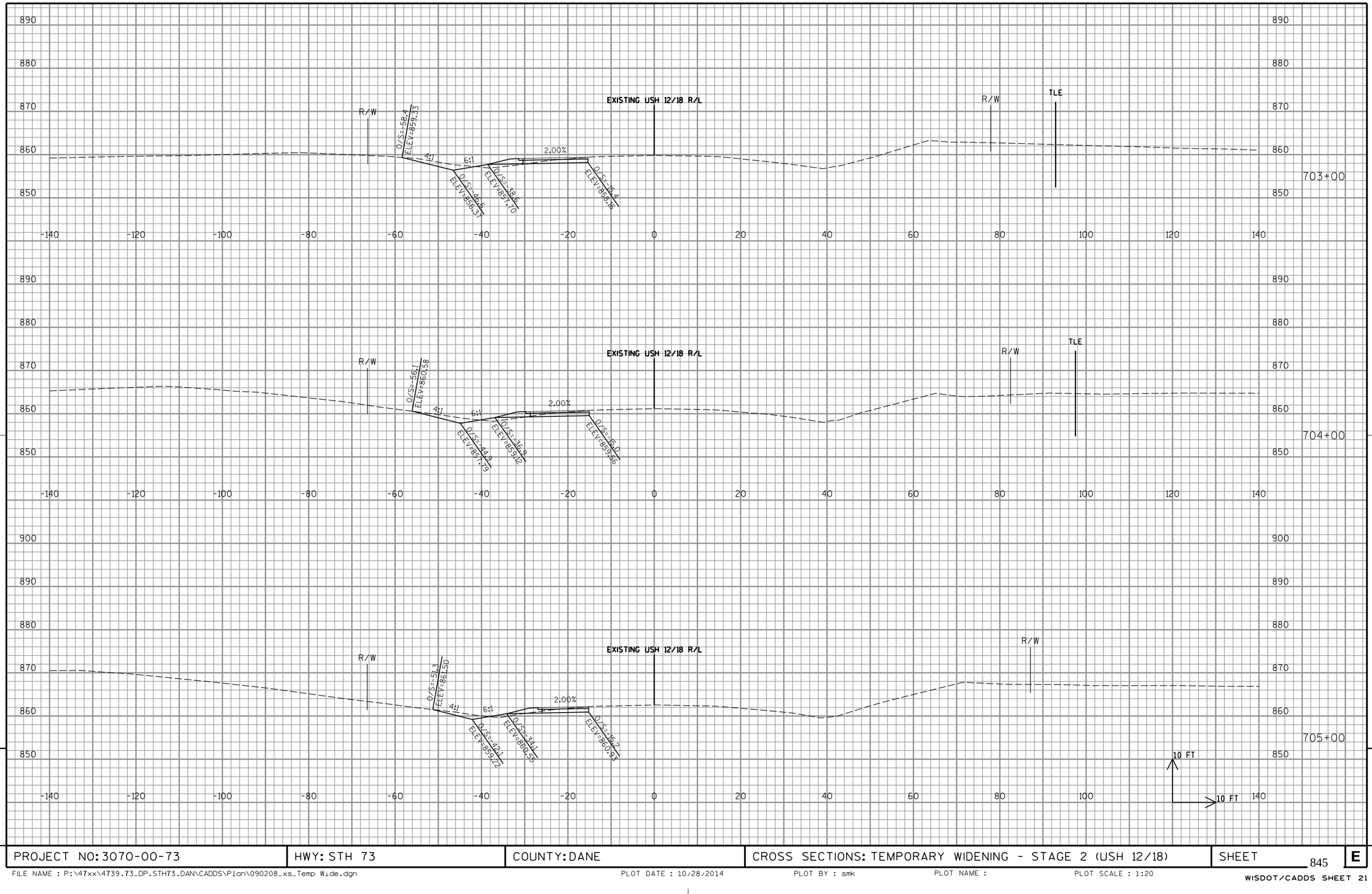
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 844	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

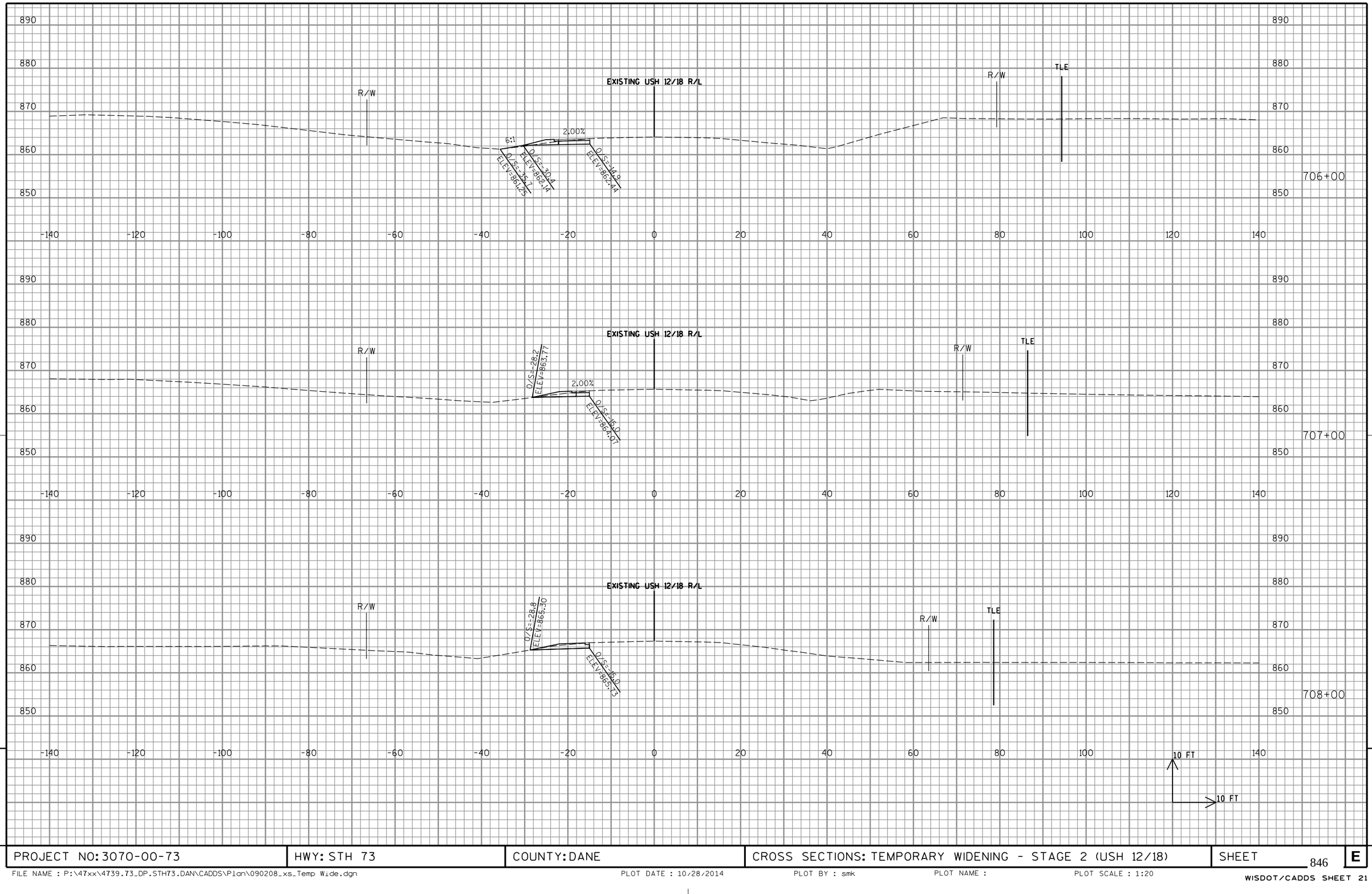
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 845	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

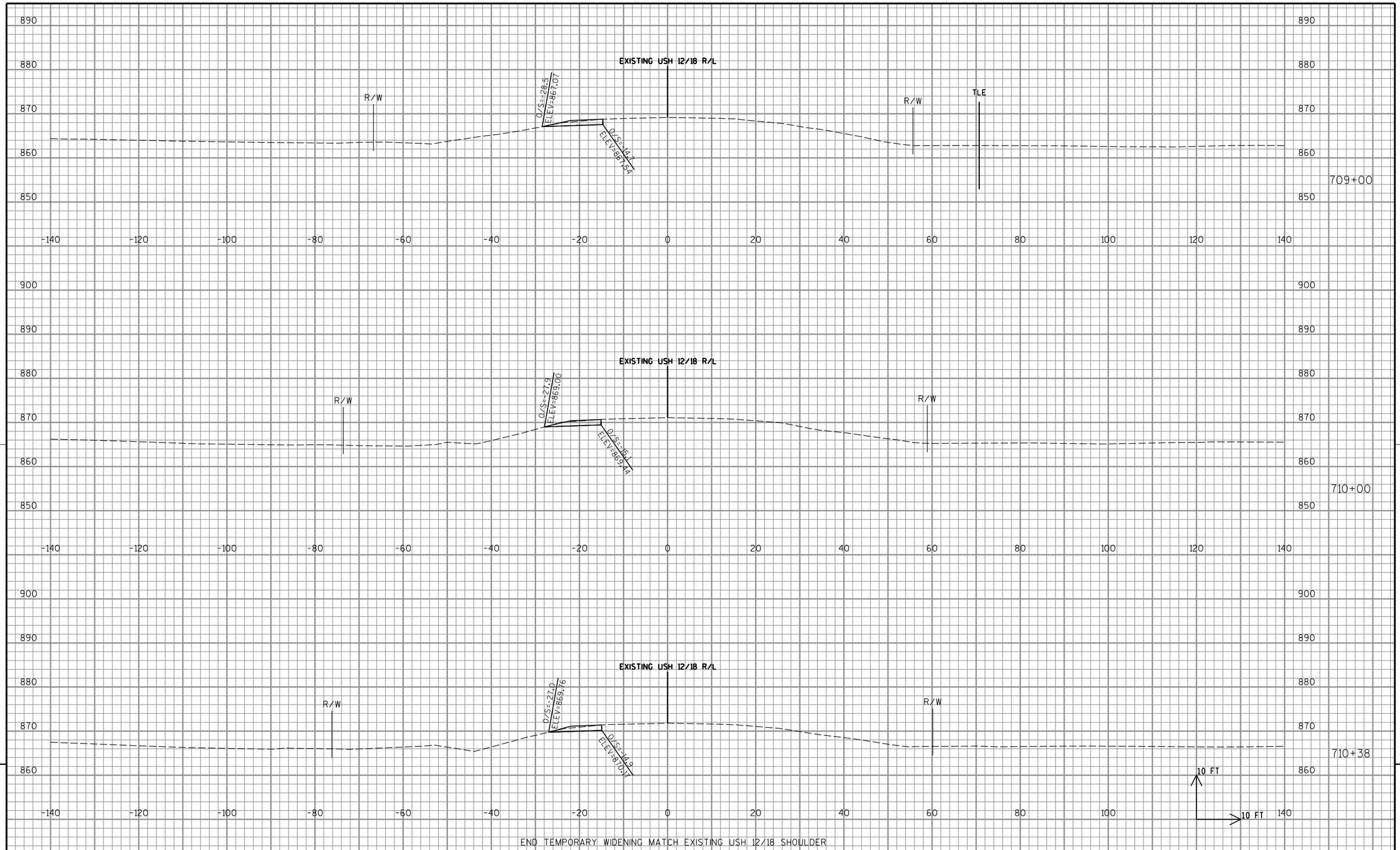
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 846	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn | PLOT DATE : 10/28/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



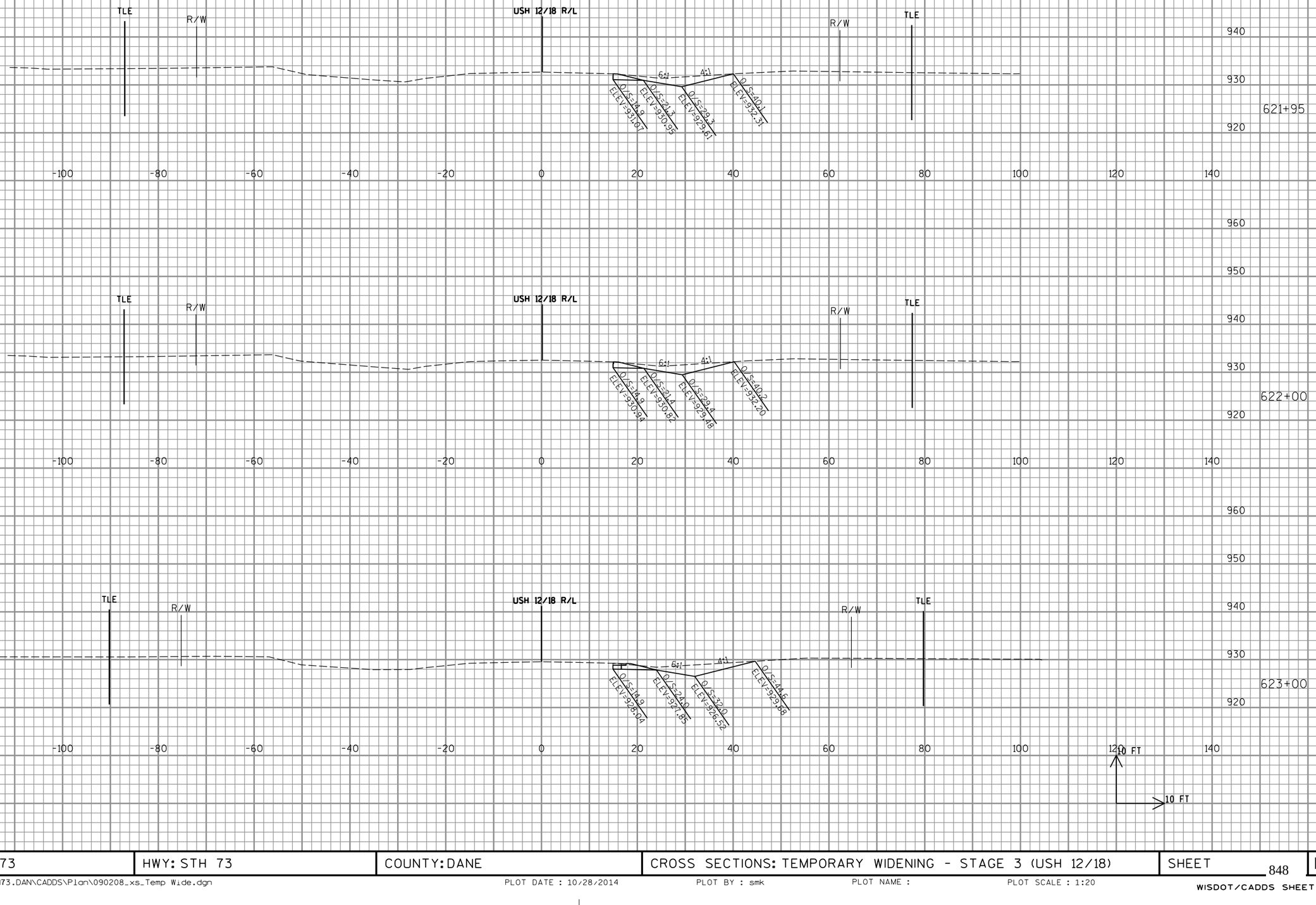
END TEMPORARY WIDENING MATCH EXISTING USH 12/18 SHOULDER

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 2 (USH 12/18)	SHEET 847	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

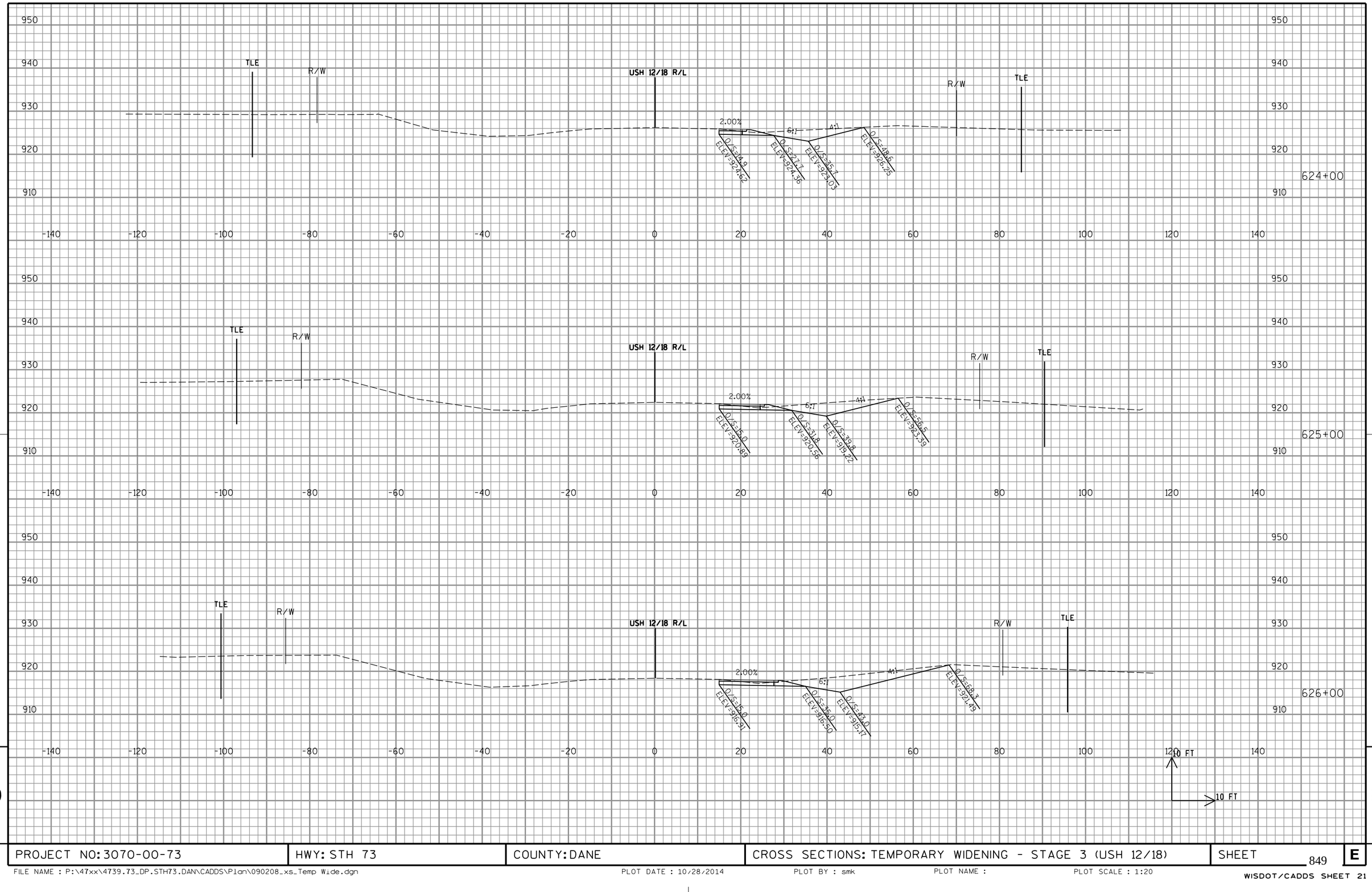
BEGIN TEMPORARY WIDENING MATCH EXISTING USH 12/18 SHOULDER



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 848	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn | PLOT DATE : 10/28/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

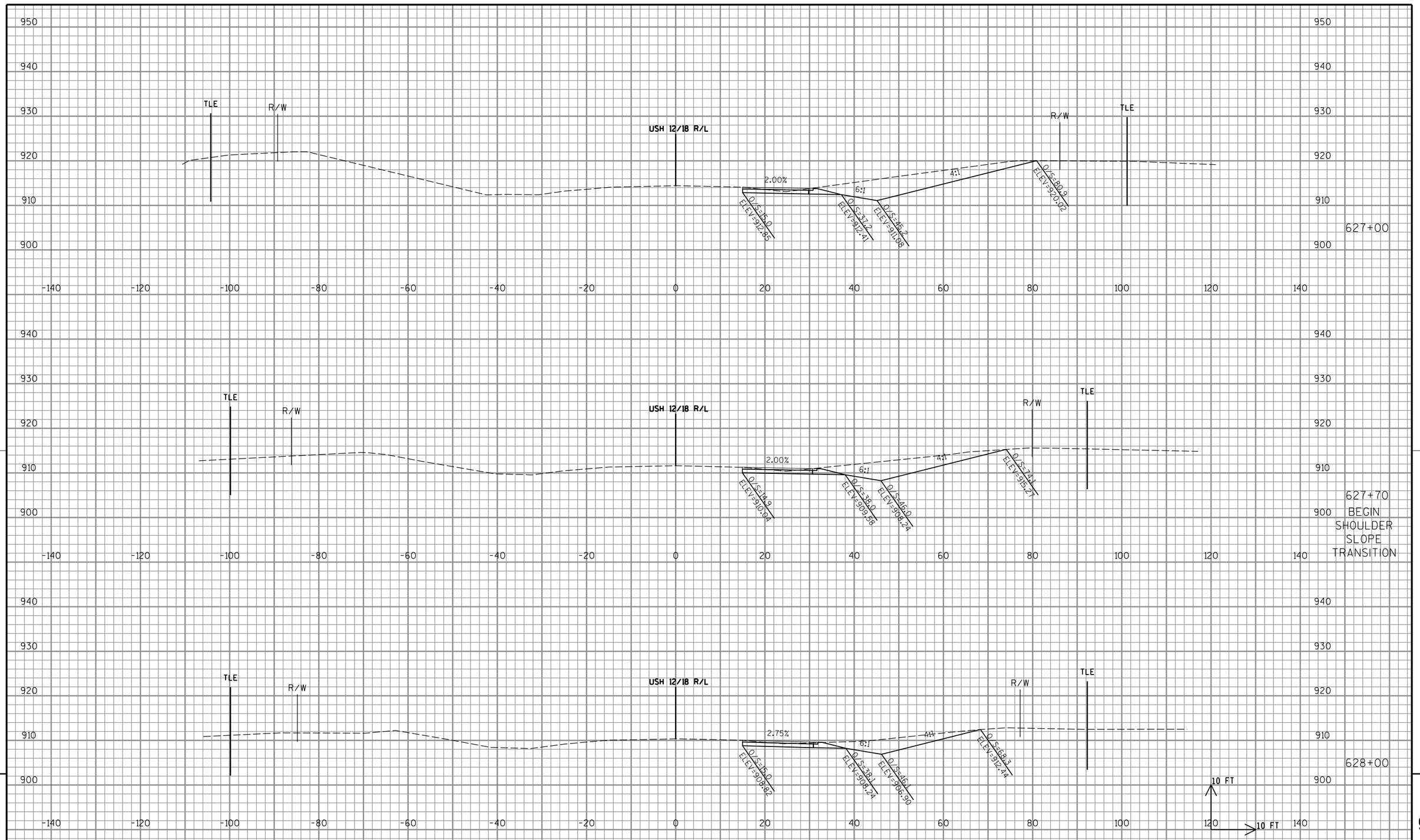
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 849	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



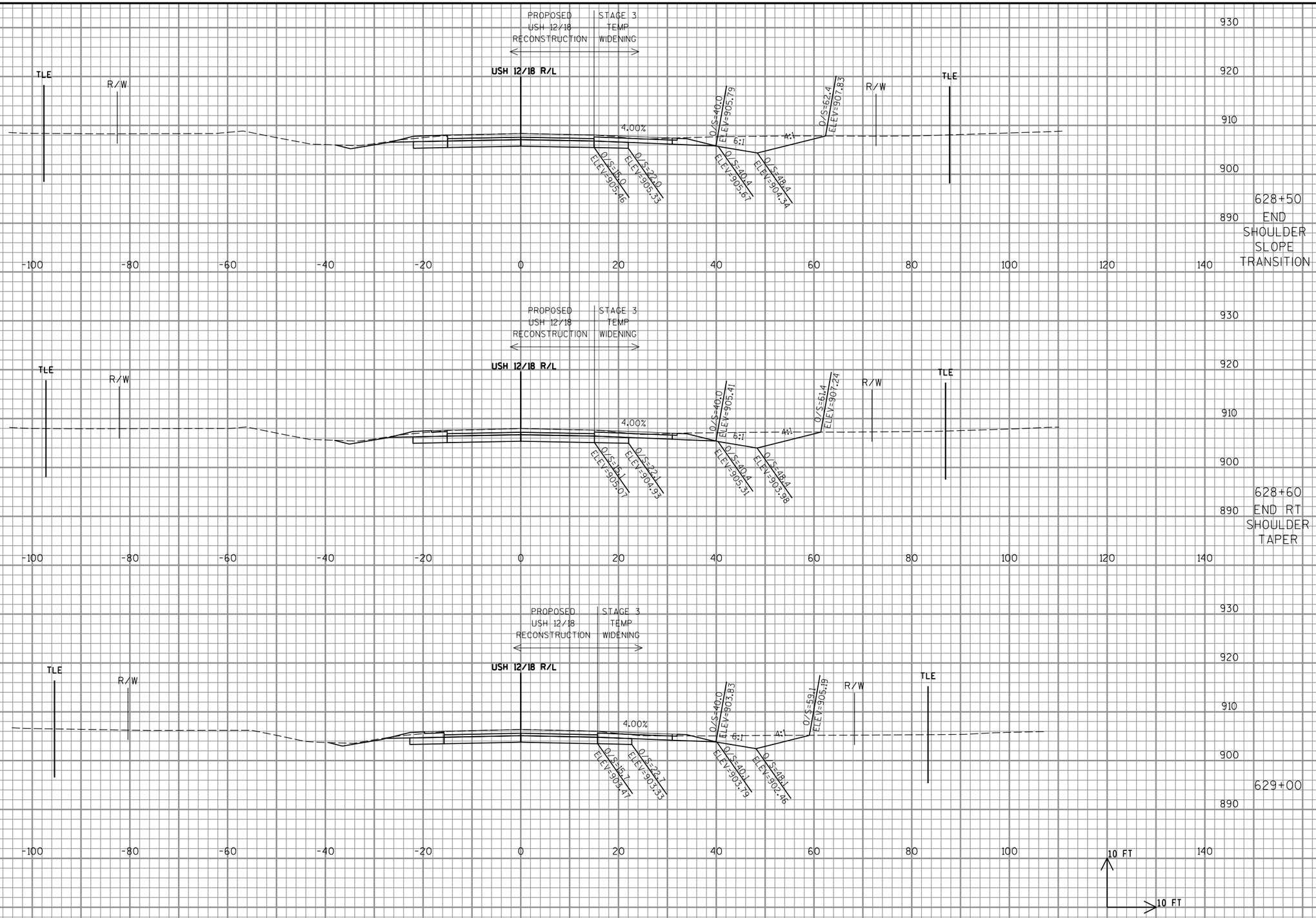
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 850	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

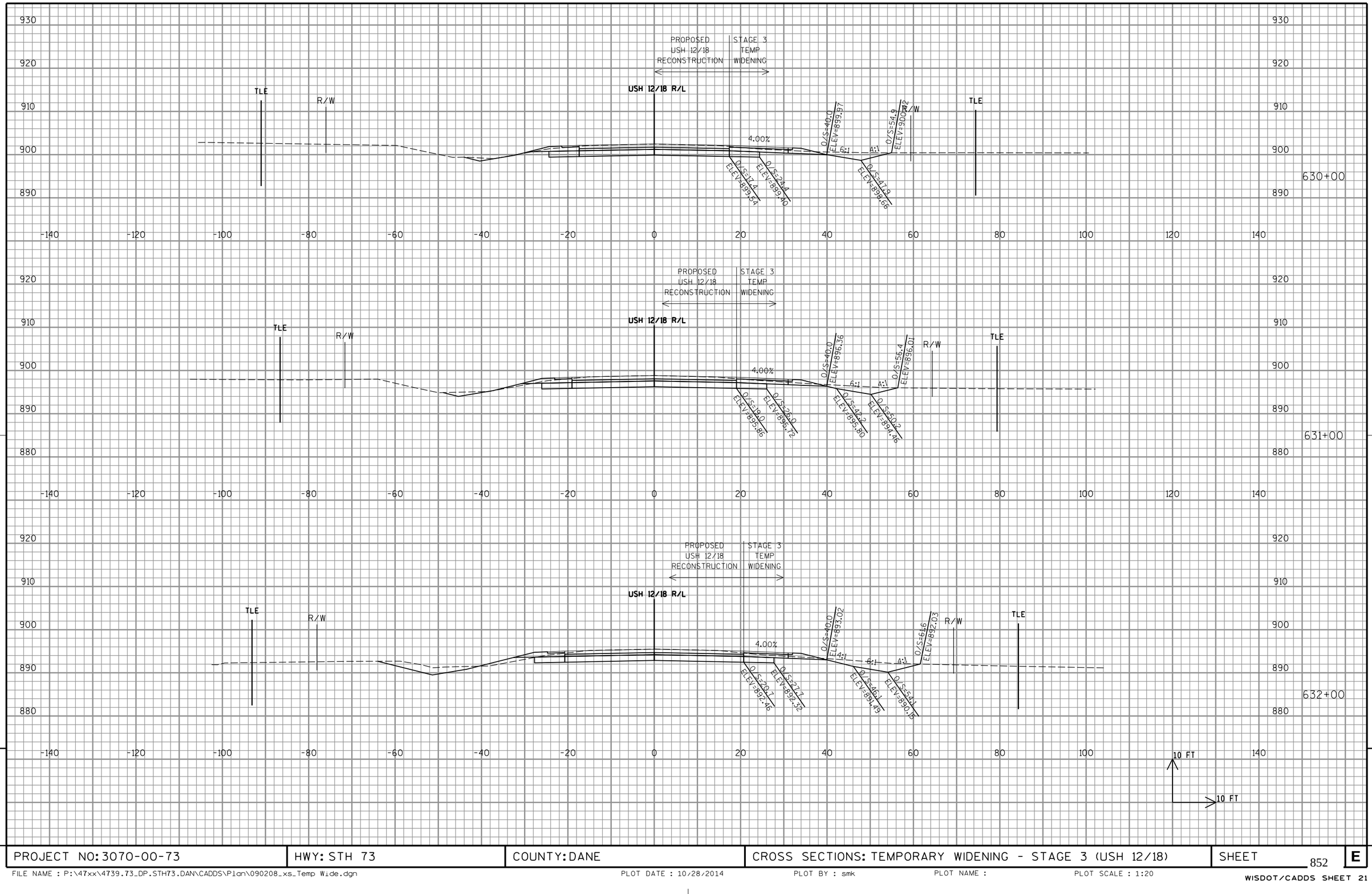
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 851	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

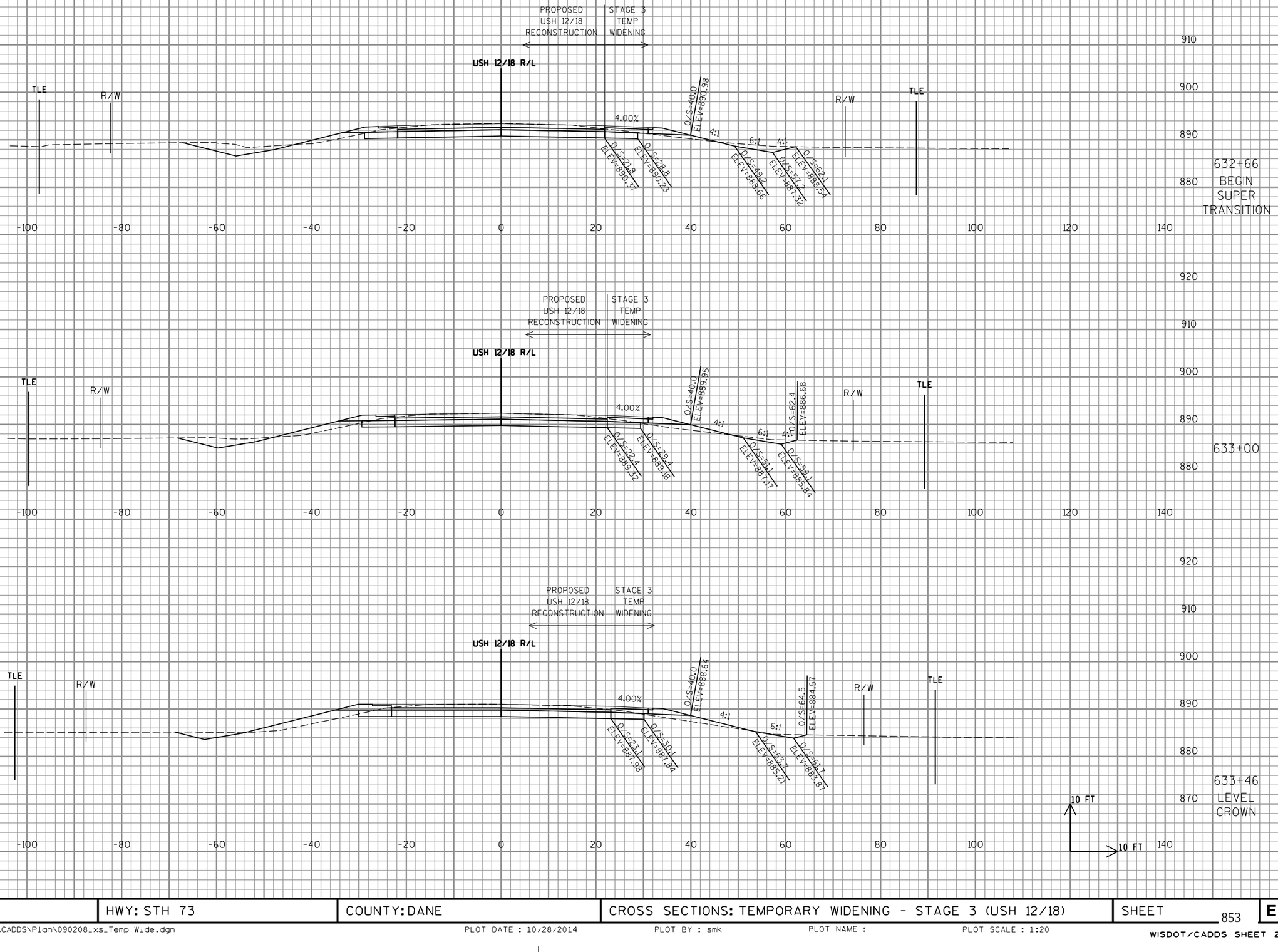
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 852	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

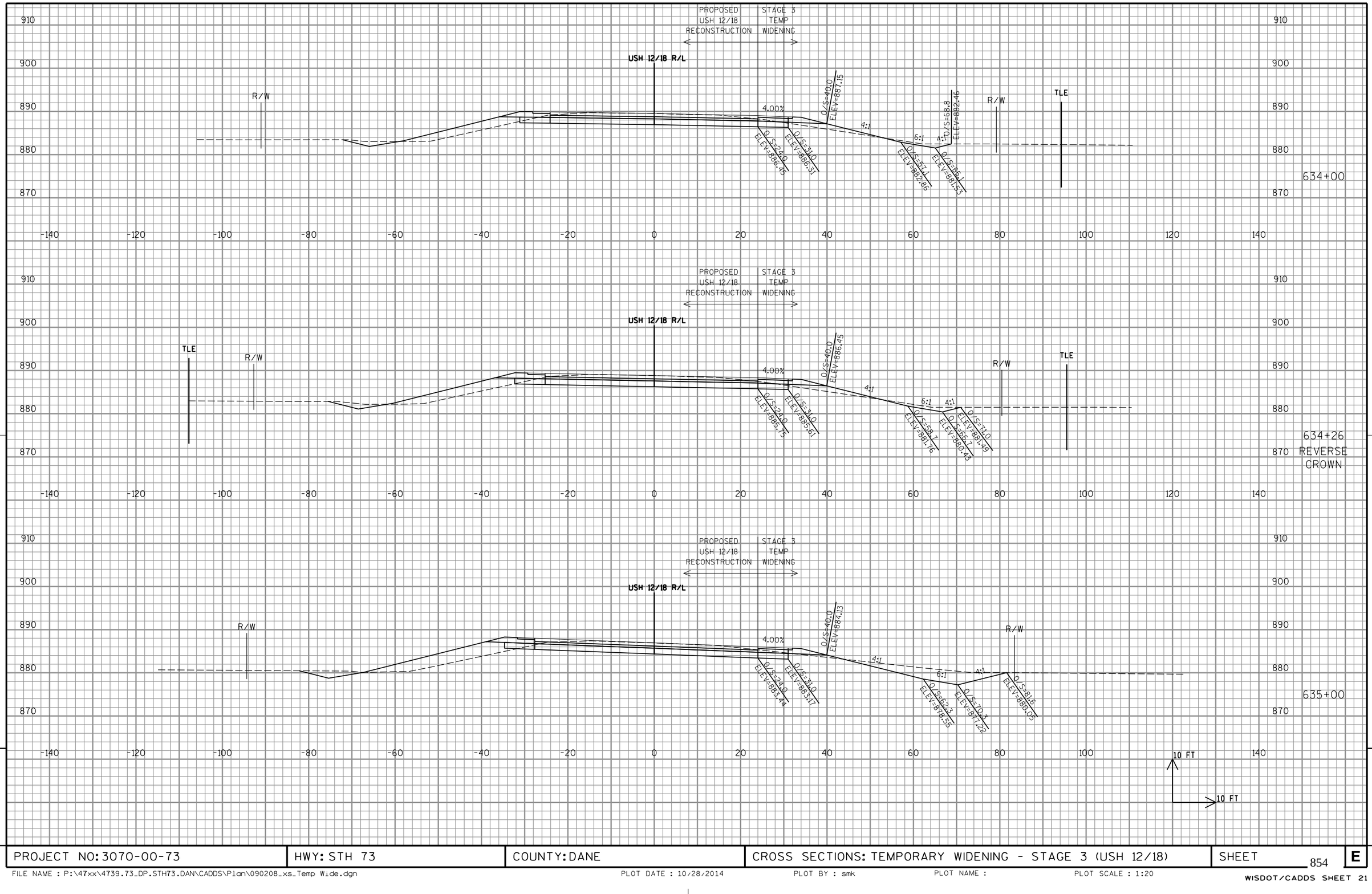
WISDOT/CADDS SHEET 21



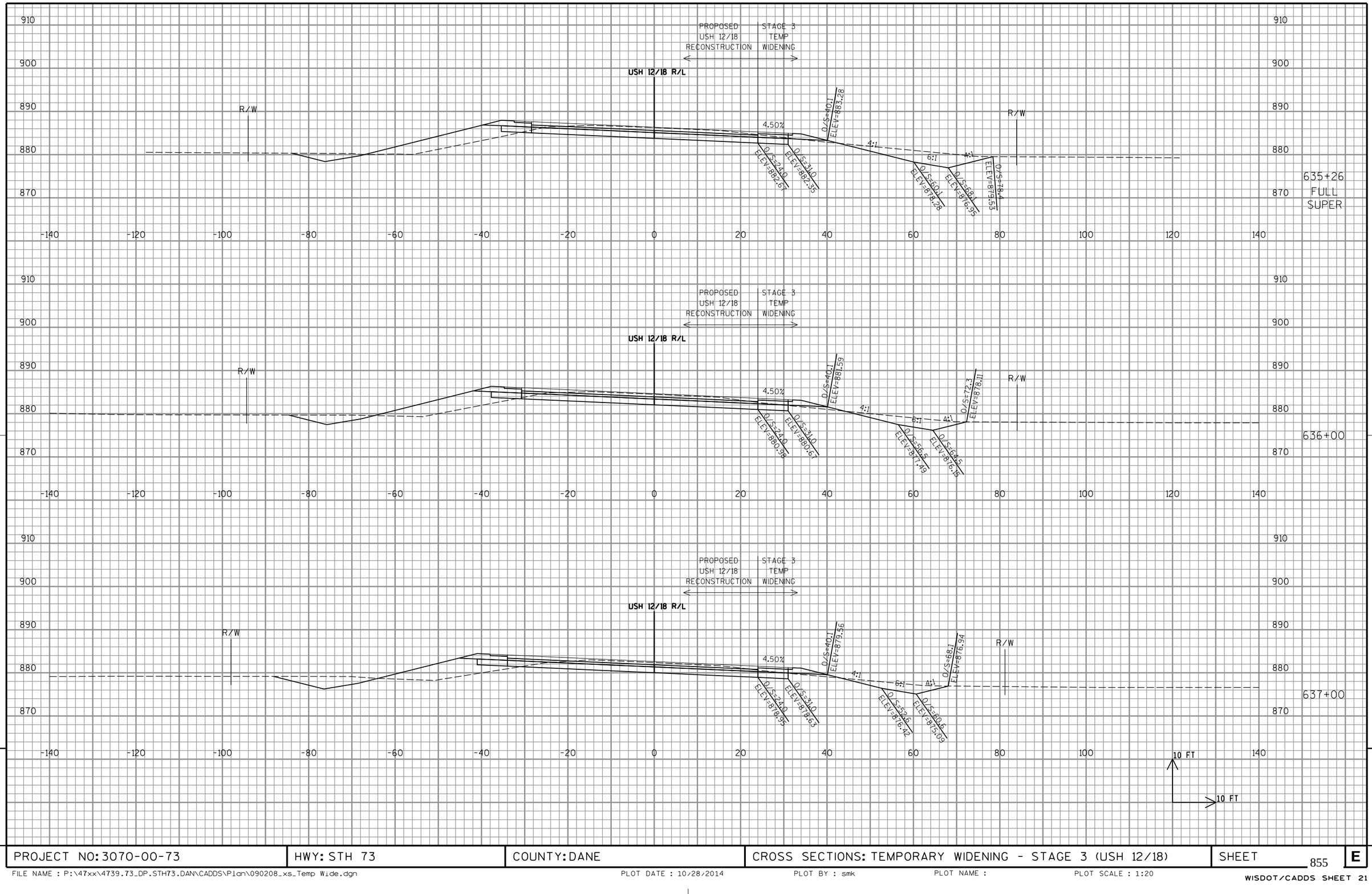
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 853	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



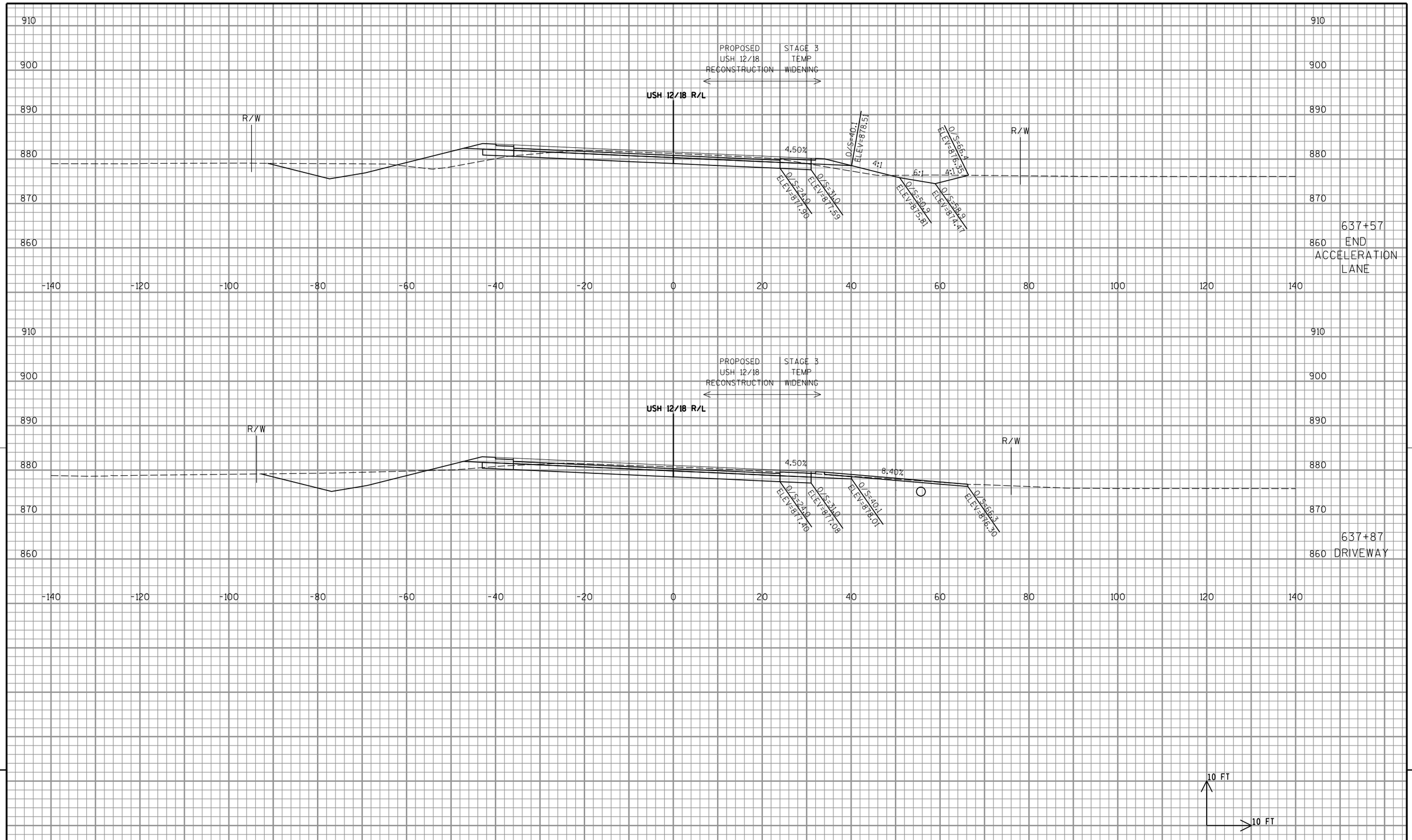
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 854	E



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 855	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

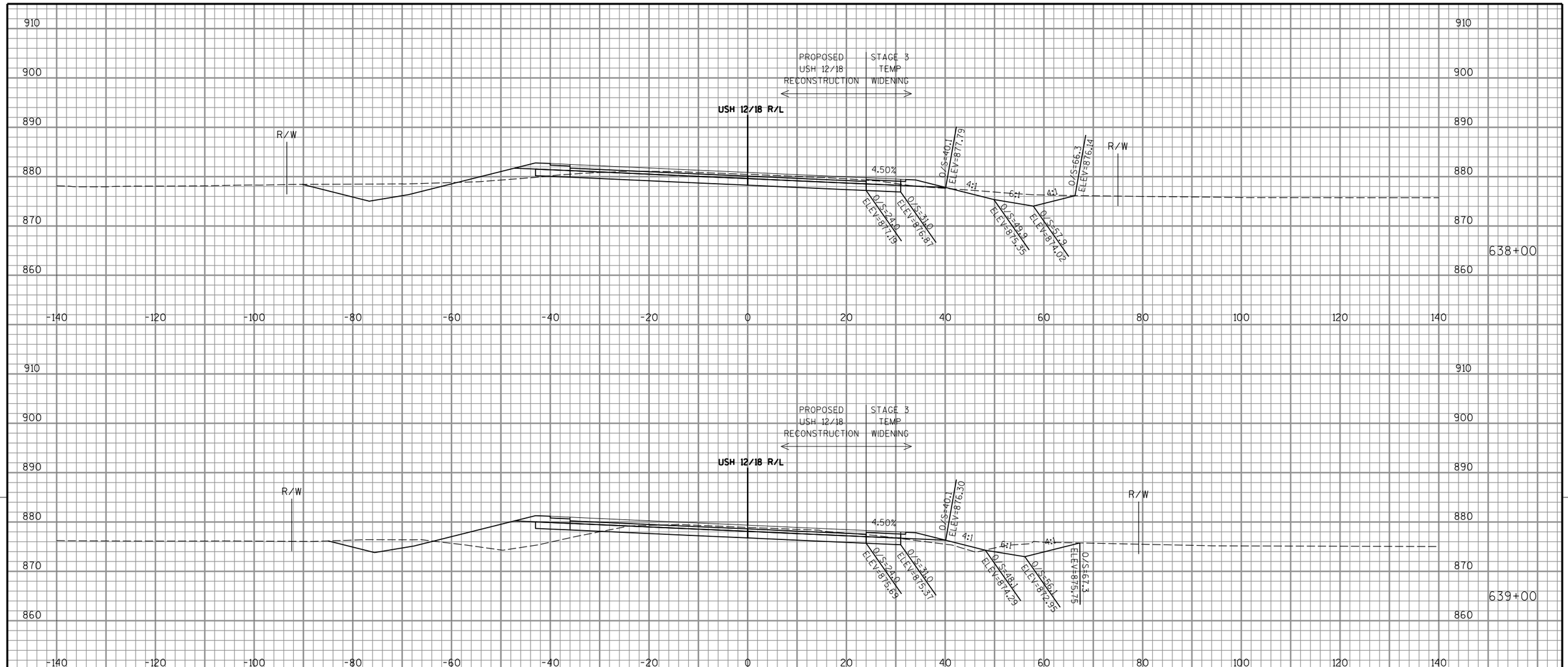
WISDOT/CADDS SHEET 21

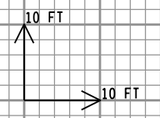


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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 856	E

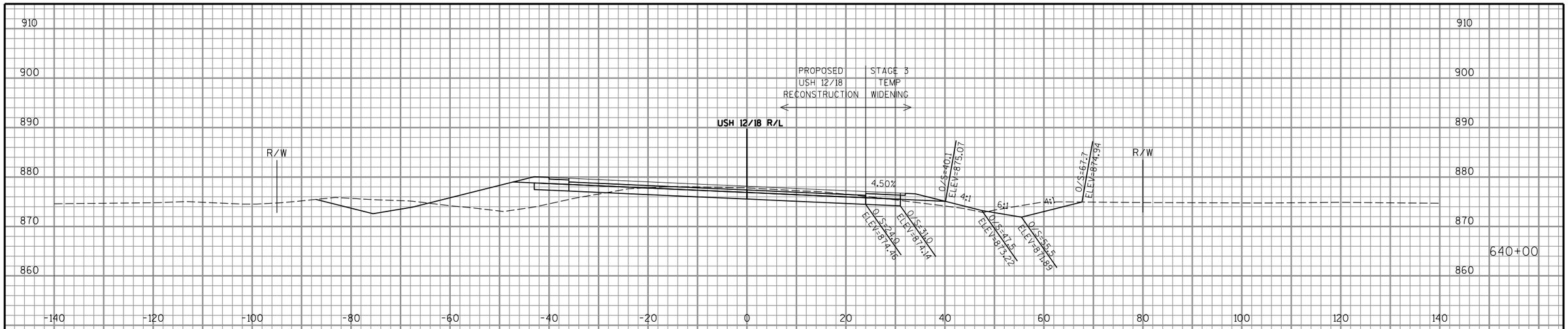


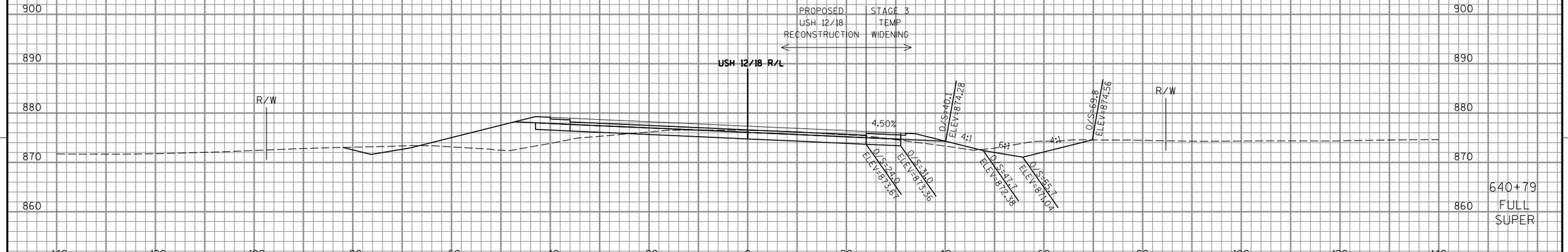


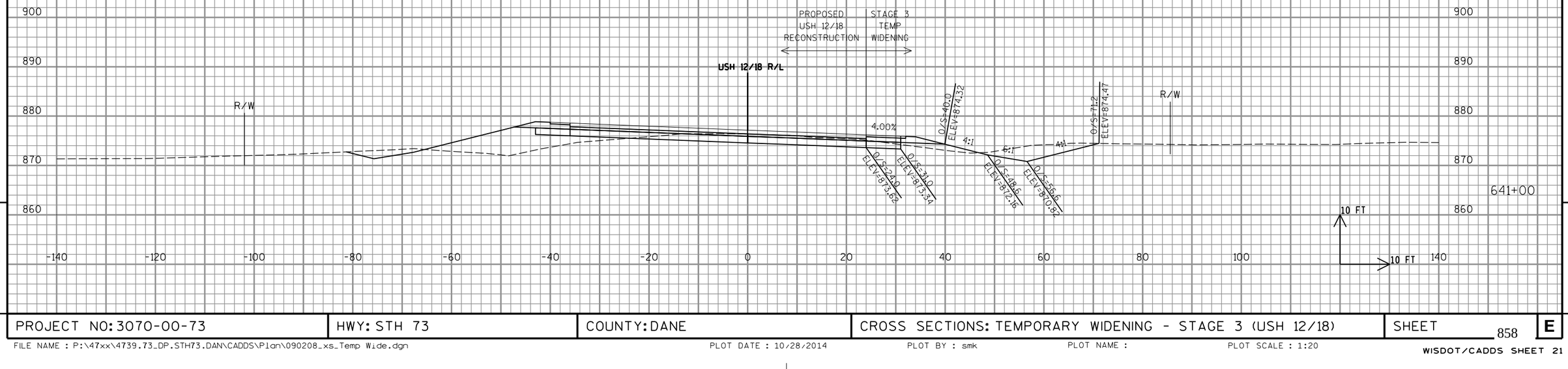
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 857	E







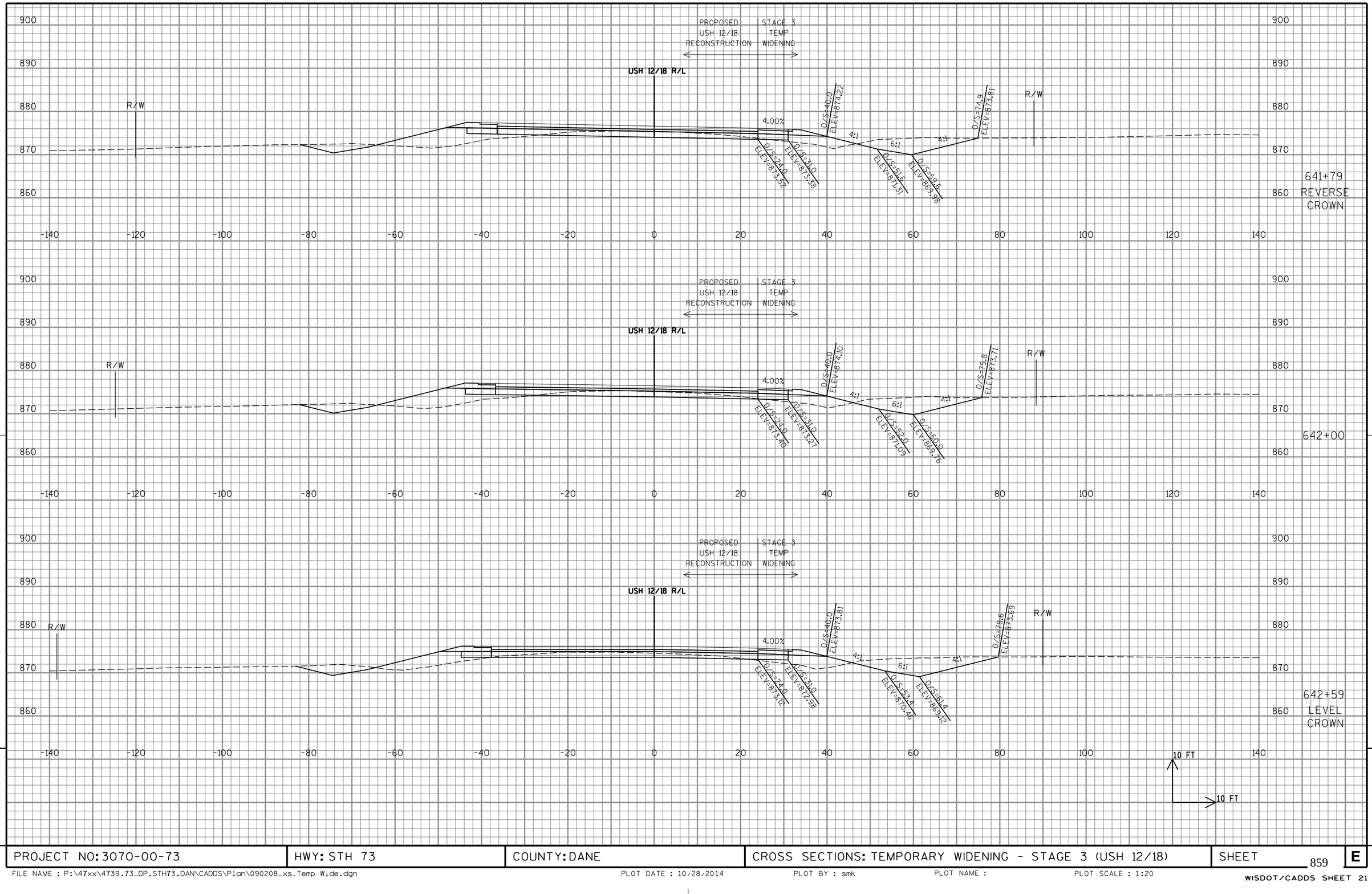
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 858	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



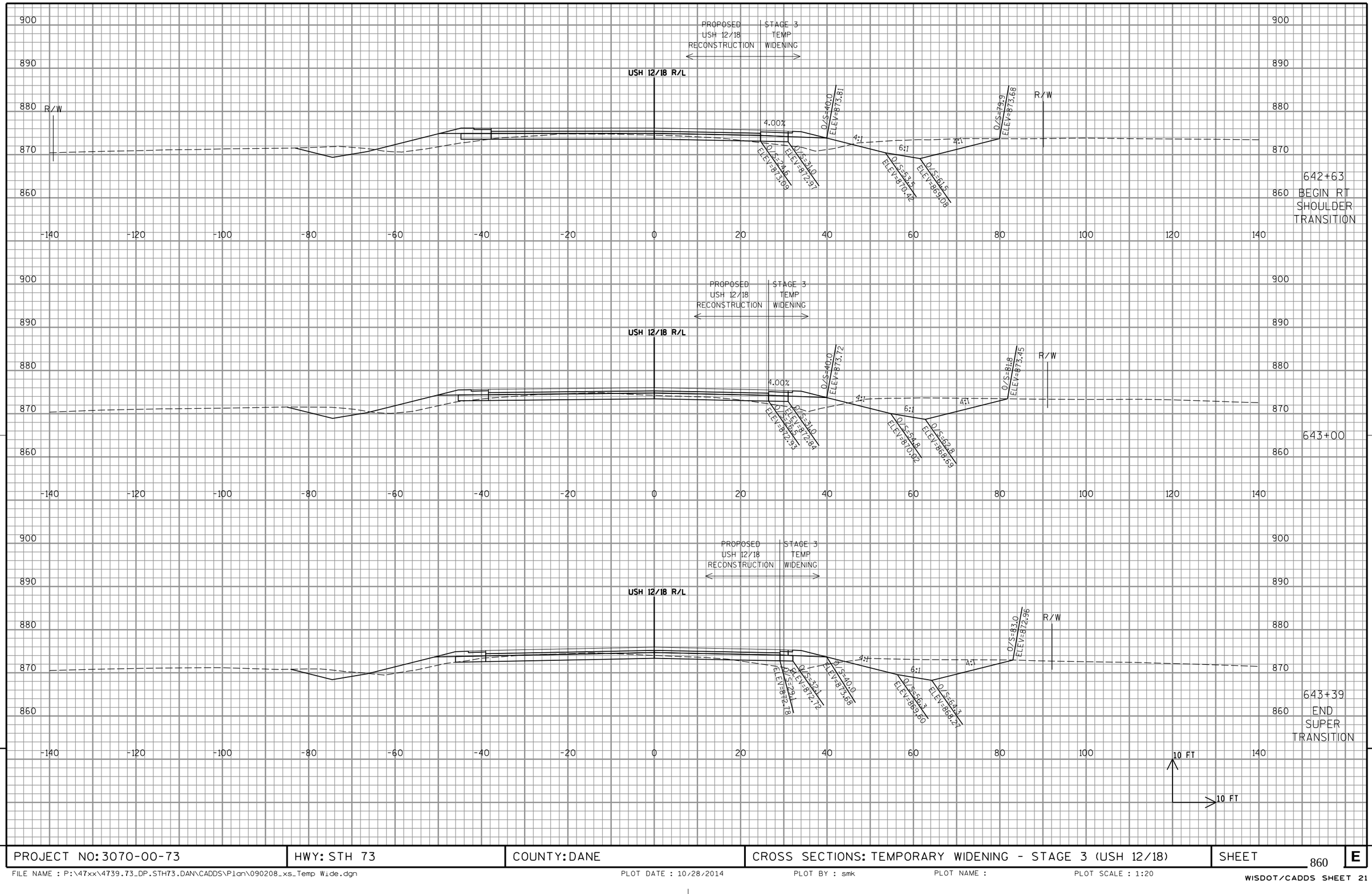
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 859	E

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FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

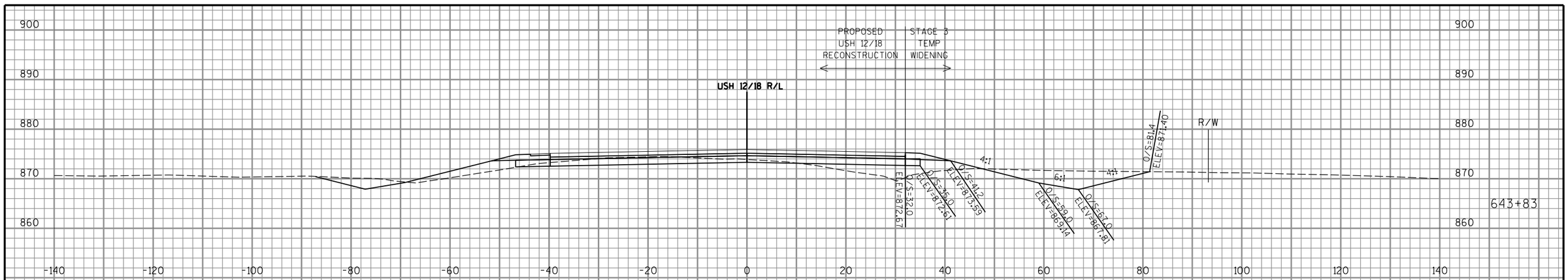
WISDOT/CADDS SHEET 21



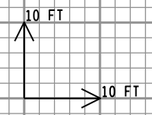
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 860	E



END TEMPORARY WIDENING MATCH PROPOSED USH 12/18 SHOULDER



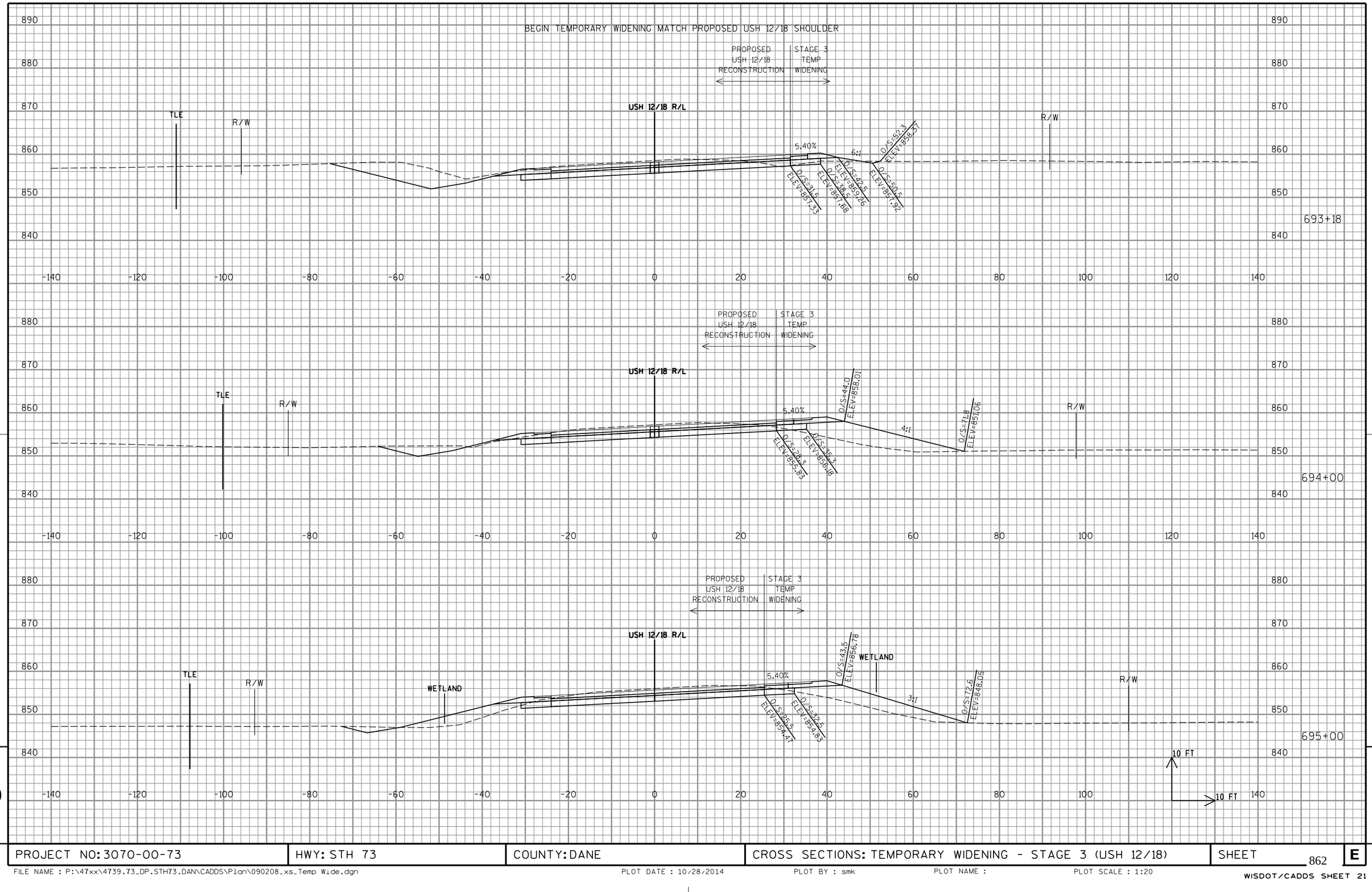
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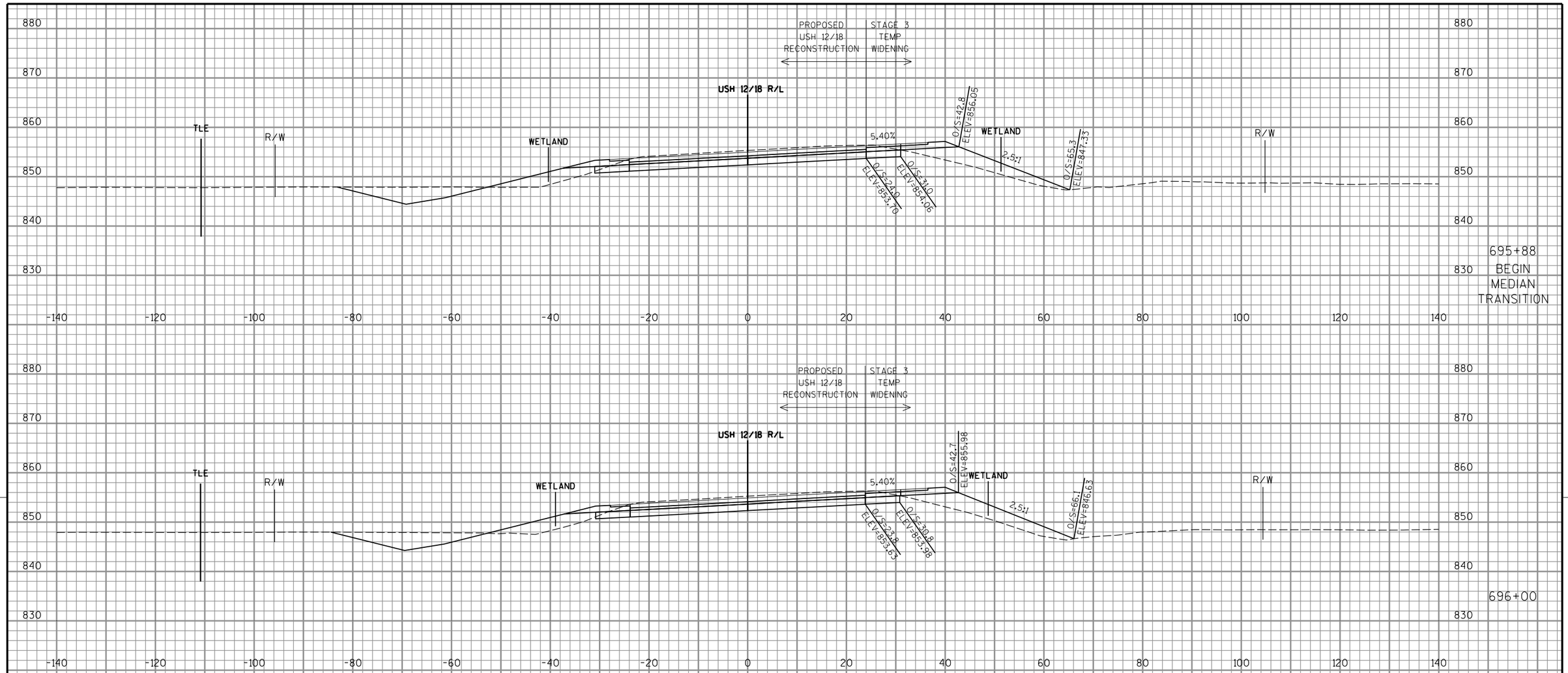
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 861	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 862	E



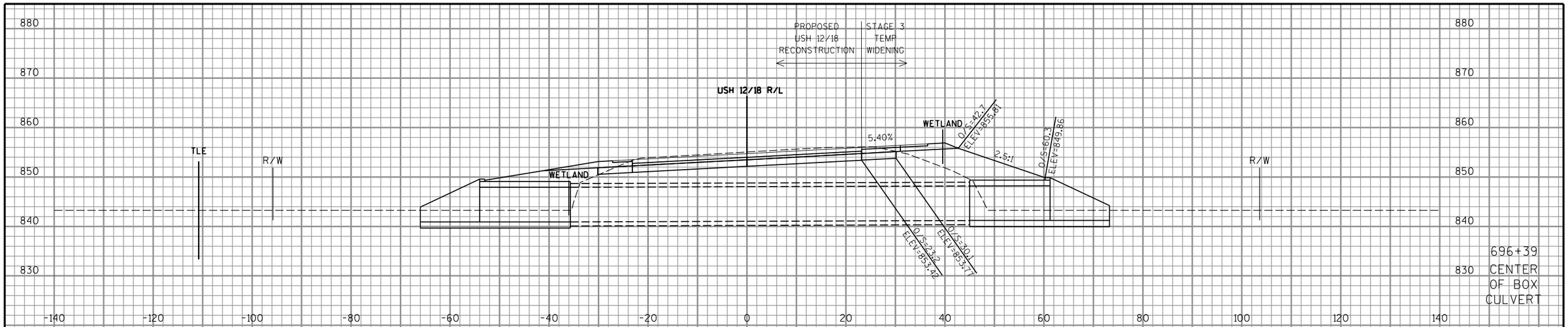
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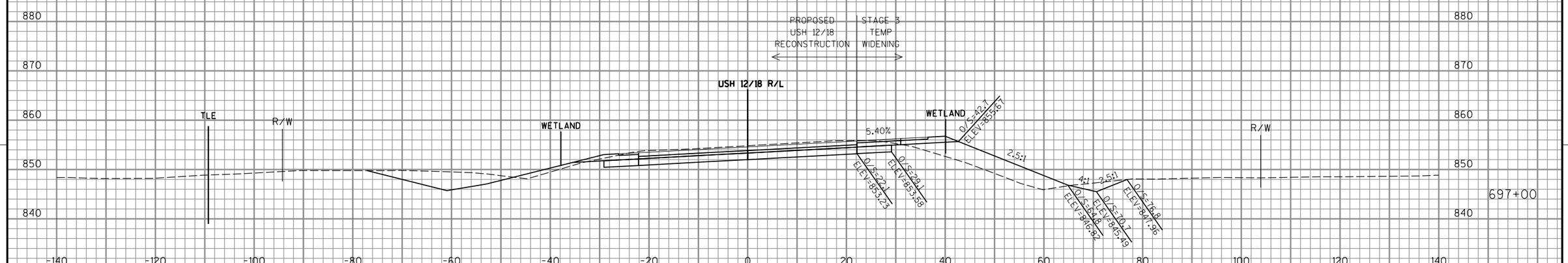
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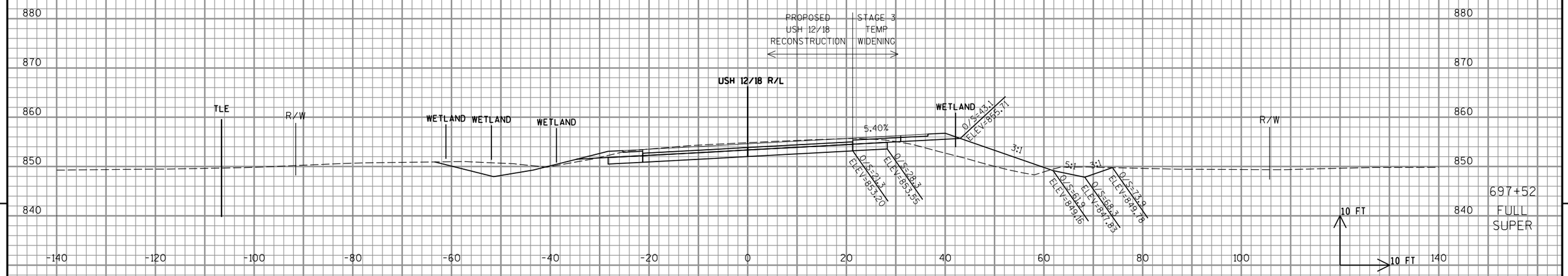
PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 863	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21







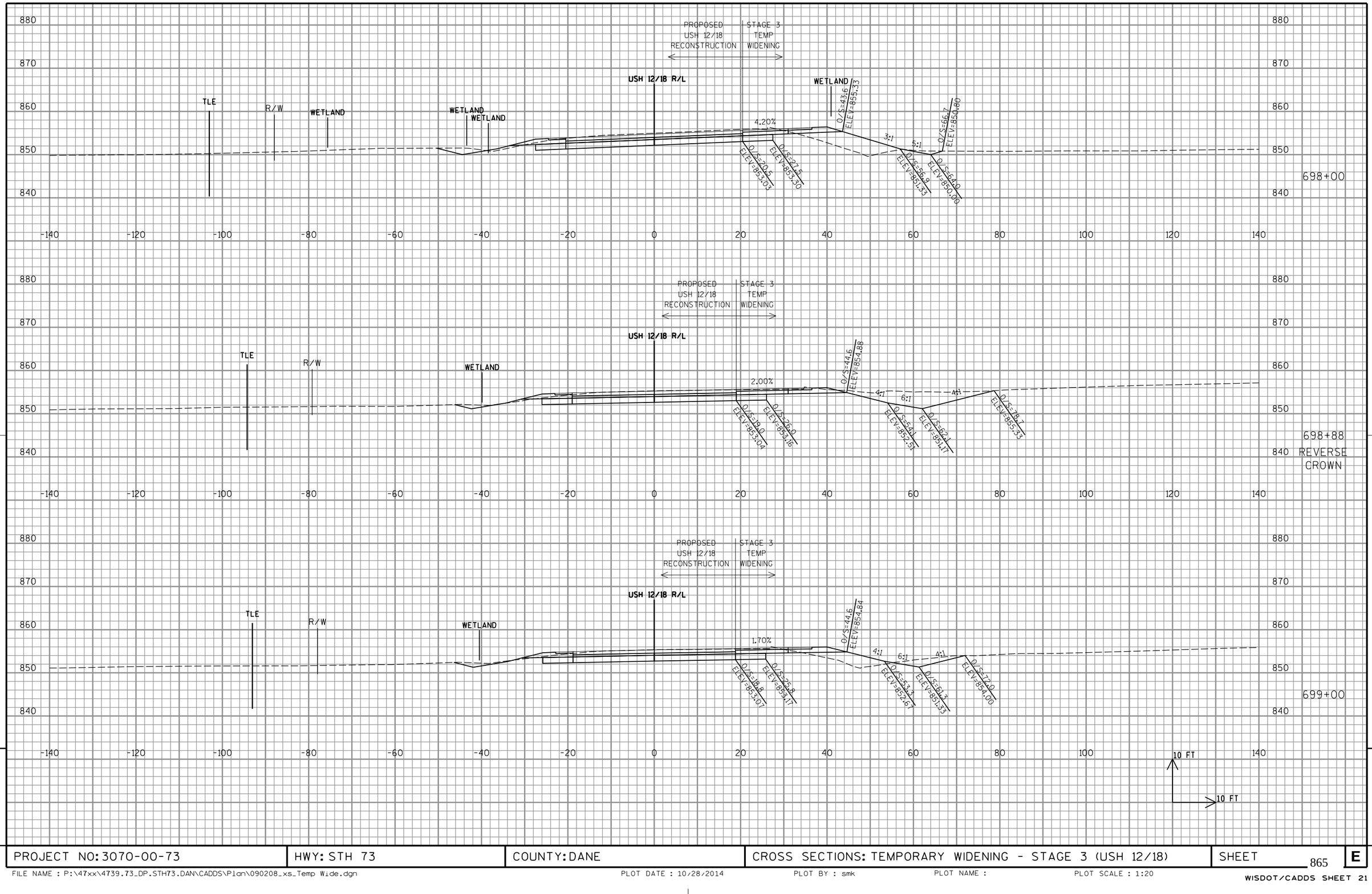
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 864	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn | PLOT DATE : 10/28/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

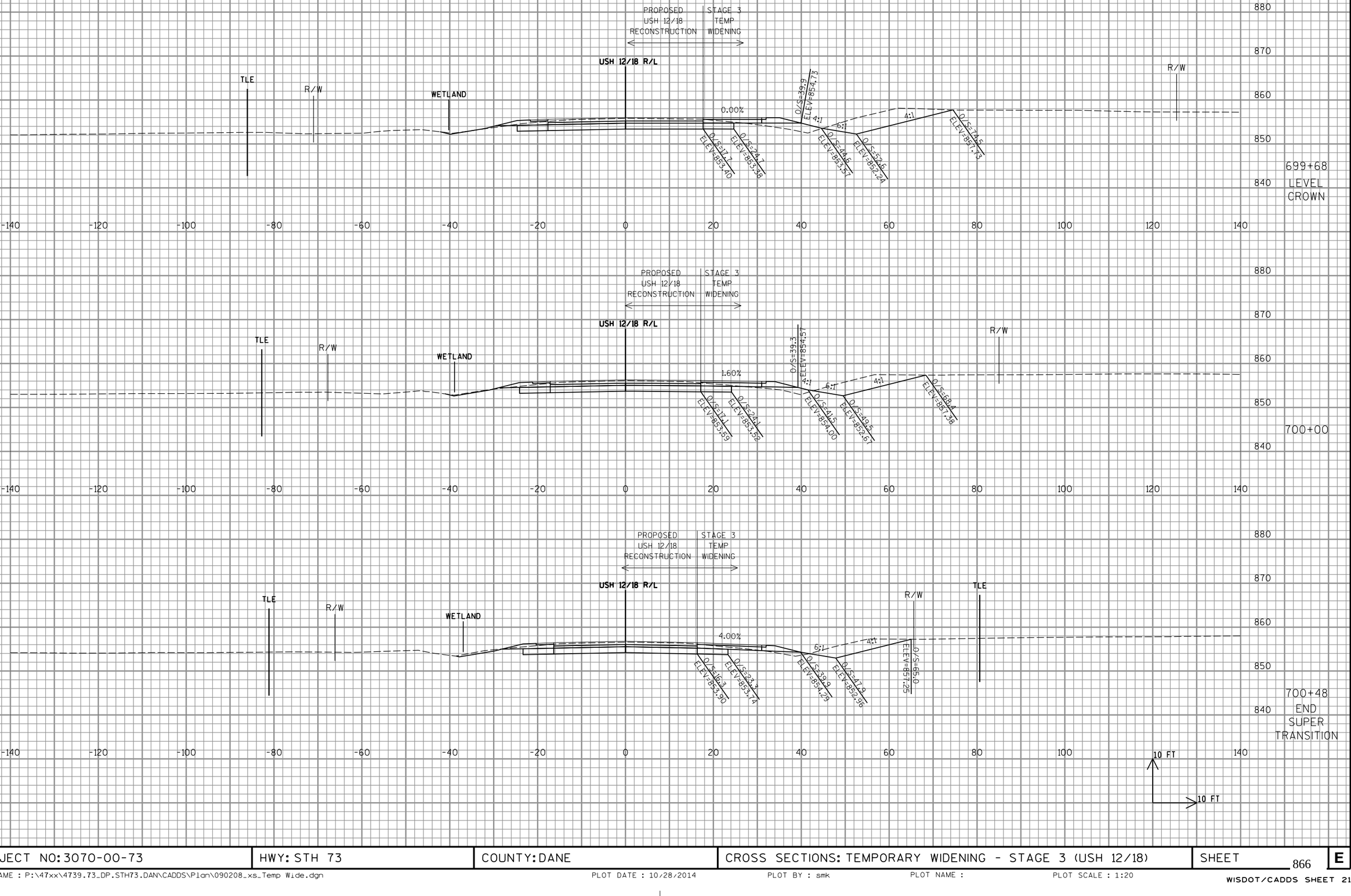
WISDOT/CADDS SHEET 21



PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 865 E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn | PLOT DATE : 10/28/2014 | PLOT BY : smk | PLOT NAME : | PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

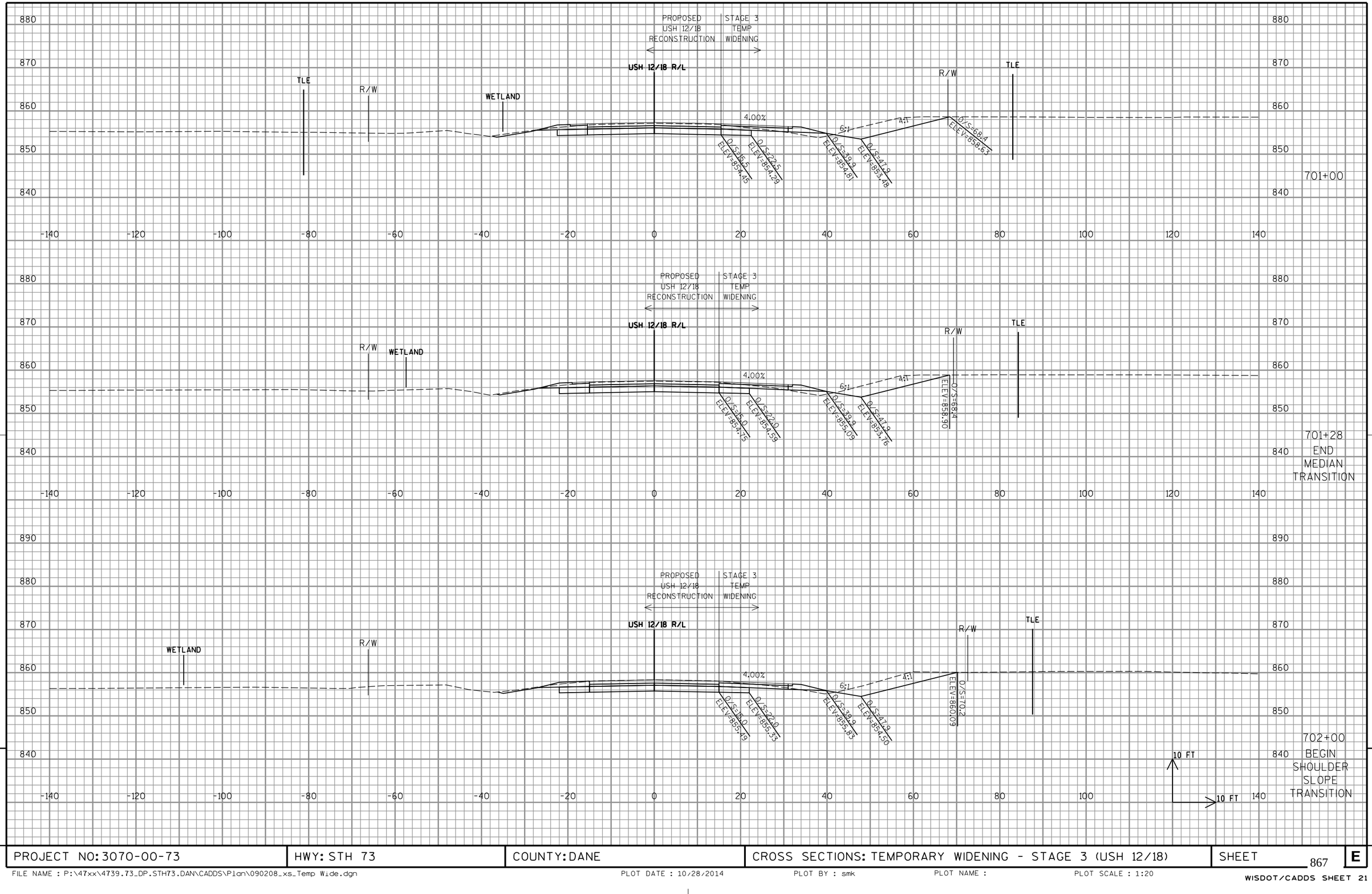


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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 866	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20



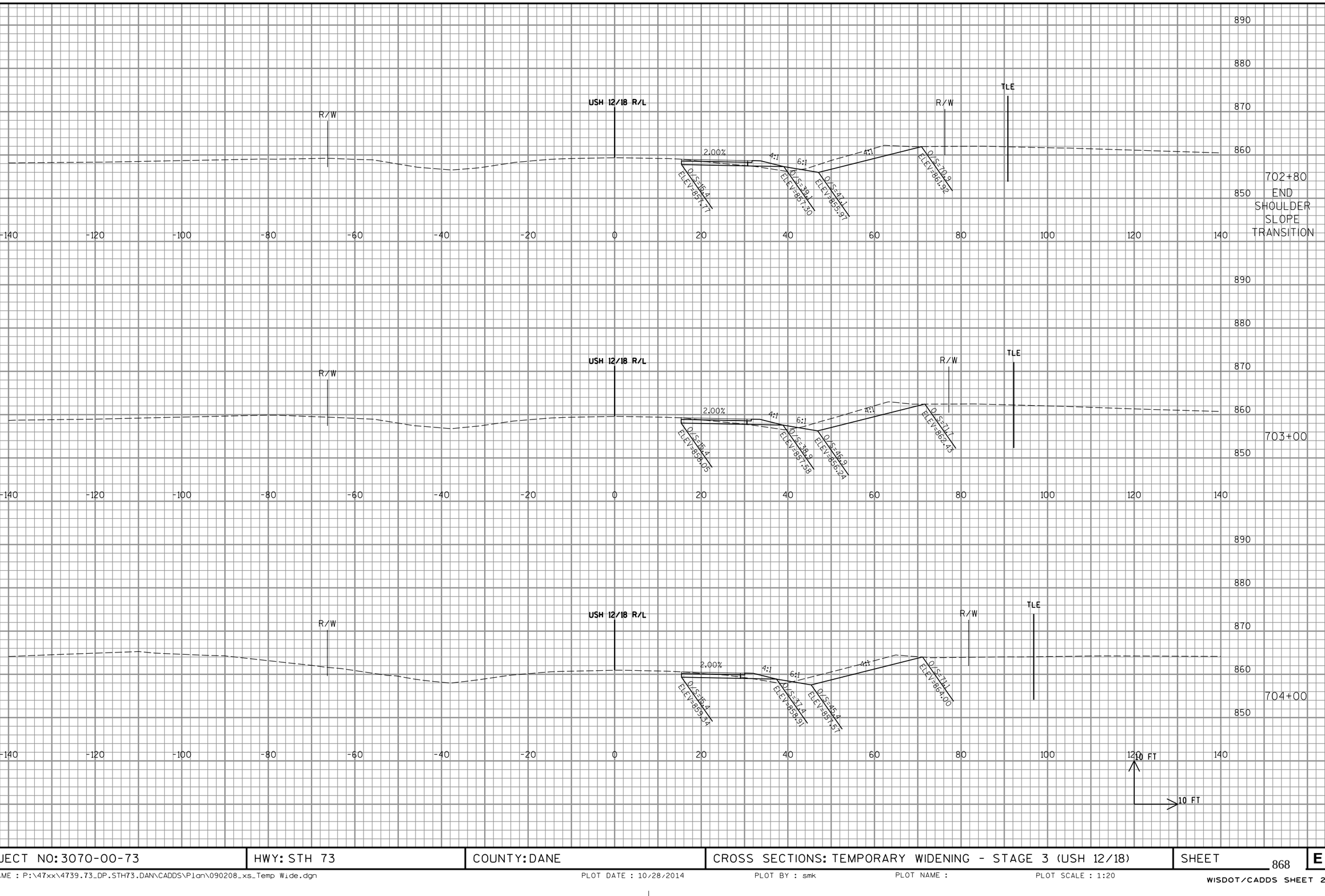
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9

PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 867	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

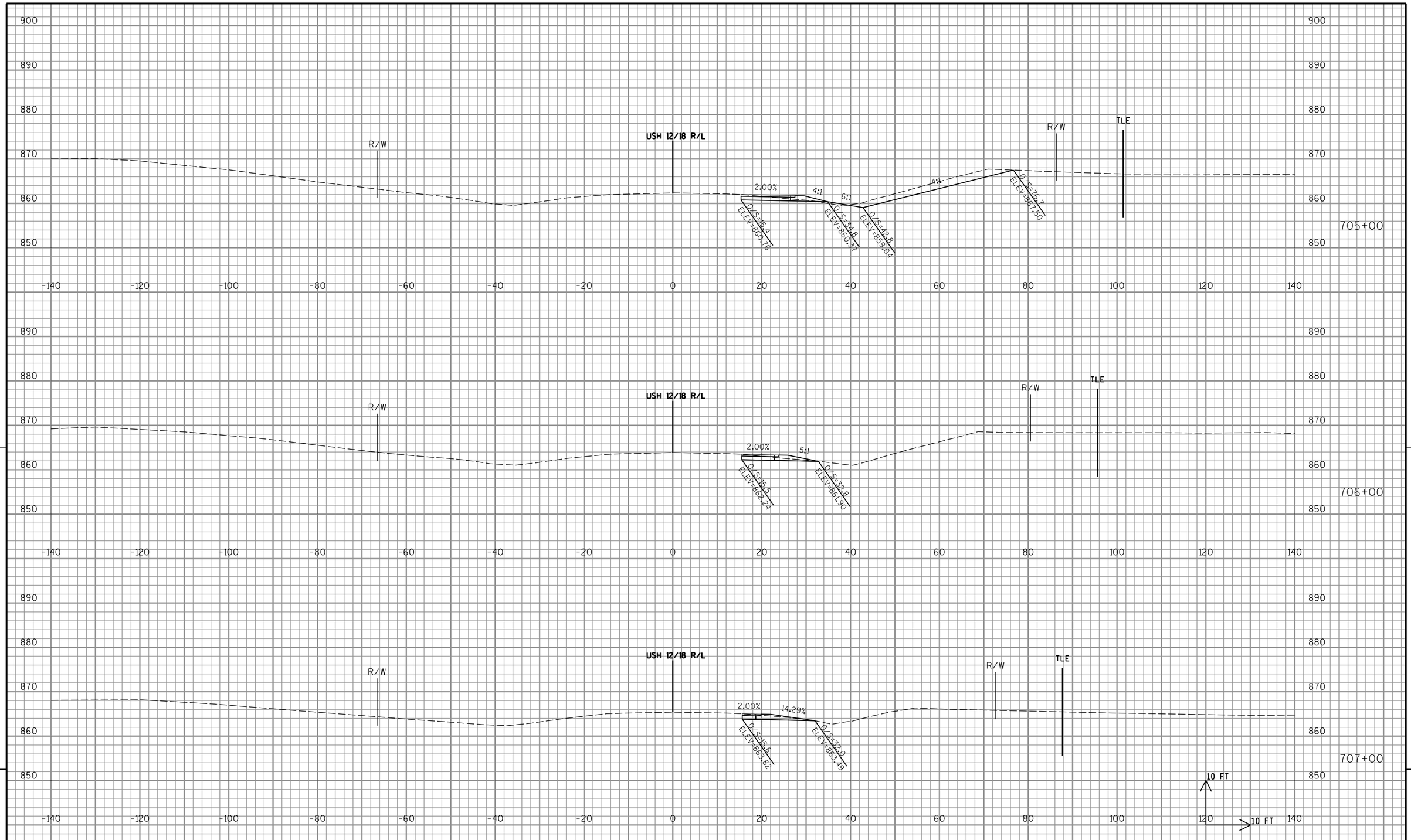


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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 868	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn
PLOT DATE : 10/28/2014
PLOT BY : smk
PLOT NAME :
PLOT SCALE : 1:20
WISDOT/CADDS SHEET 21



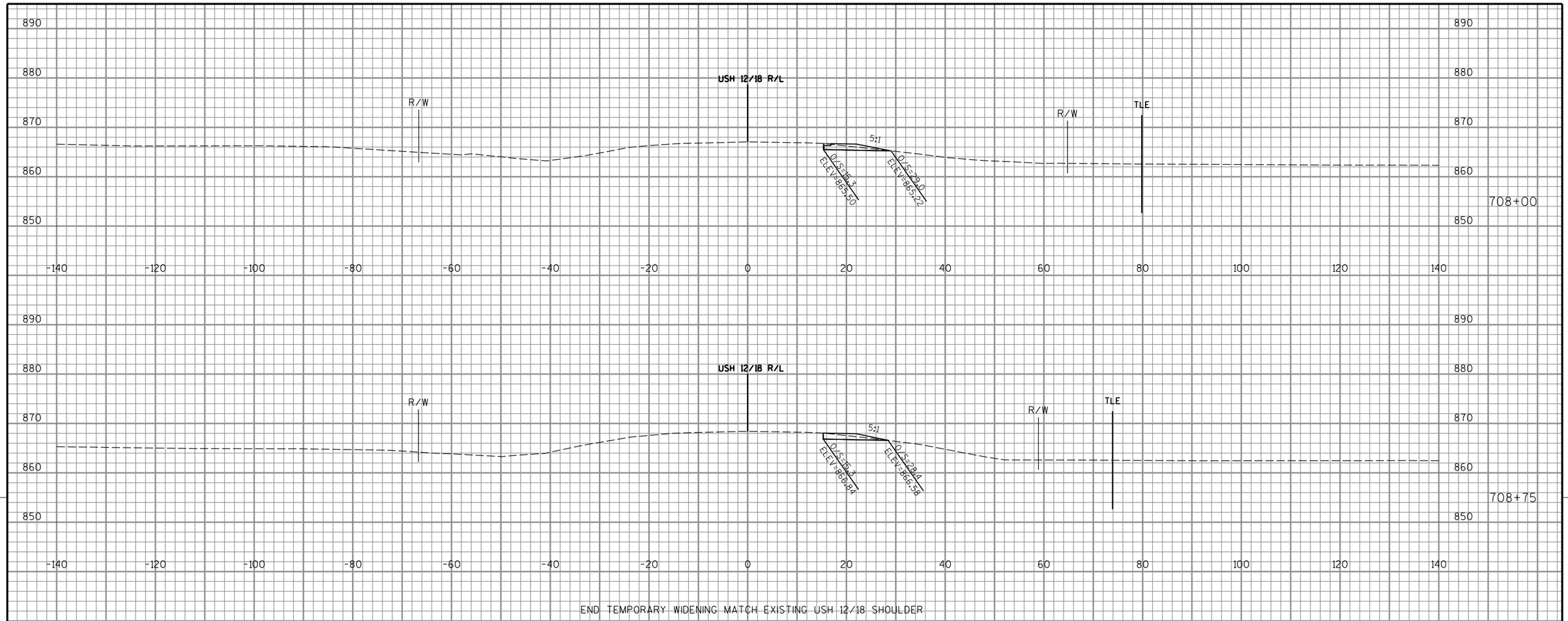
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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 869	E

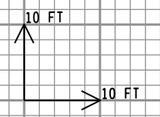
FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

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END TEMPORARY WIDENING MATCH EXISTING USH 12/18 SHOULDER



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PROJECT NO: 3070-00-73	HWY: STH 73	COUNTY: DANE	CROSS SECTIONS: TEMPORARY WIDENING - STAGE 3 (USH 12/18)	SHEET 870	E

FILE NAME : P:\47xx\4739.73_DP.STH73.DAN\CADDS\Plan\090208_xs_Temp Wide.dgn PLOT DATE : 10/28/2014 PLOT BY : smk PLOT NAME : PLOT SCALE : 1:20

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

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