WKE

PROJECT ID: 1330-18-70

COUNTY: WAUKESHA

DEC 2013

ORDER OF SHEETS

Page No.	1	Title
Page No.		Typical Sections and Details
Page No.		Estimate of Quantities
Page No.		Miscellaneous Quantities
Page No.		Right of Way Plat
Page No.		Plan and Profile
Page No.		Standard Detail Drawings
Page No.		Sign Plates
Page No.		Structure Plans
Page No.		Computer Earthwork Data
Page No.		Cross Sections

TOTAL SHEETS = 986

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1330-18-70	WISC 2013514	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

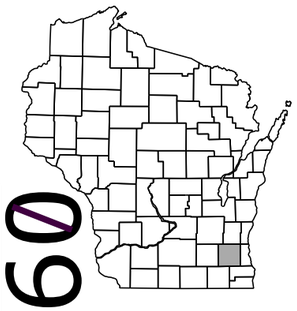
WALES ROAD (STH 83)

PERKINS ROAD - GLACIER PASS (N. OF USH 18)

STH 83

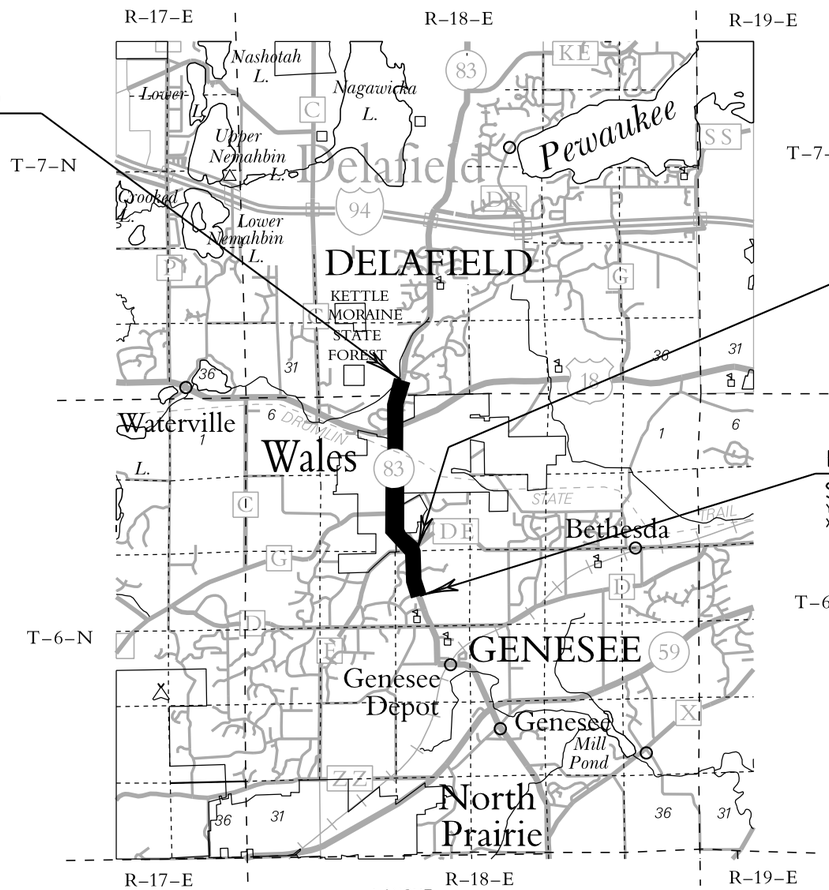
WAUKESHA COUNTY

STATE PROJECT NUMBER
1330-18-70



N

END PROJECT 1330-18-70
STA. 1587+01.09 ℄



EQUATION
STA. 1448+00.00 ℄ =
STA. 647+00.00 S-℄

BEGIN PROJECT 1330-18-70
STA. 615+00 S-℄
Y = 165,684.187
X = 643,238.793

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 3.238 MI.

DESIGN DESIGNATION	PERKINS RD. TO CTH DE	CTH DE TO WELSH RD.	WELSH RD. TO USH 18	USH 18 TO GLACIER PASS
	620+00 - 647+00	1451+00 - 1500+00	1500+00 - 1542+00	1542+00 - 1587+00
A.D.T. (2013)	= 8,400	= 16,100	= 19,100	= 17,500
A.D.T. (2033)	= 11,400	= 21,900	= 24,300	= 22,400
K_{100}	= 10.1%	= 10.1%	= 10.1%	= 10.1%
D.H.V.	= 3.9%	= 3.9%	= 3.9%	= 3.9%
D.D.	= 62-38	= 62-38	= 62-38	= 62-38
T. % (ADT)	= 4.9%	= 4.9%	= 4.9%	= 4.9%
DESIGN SPEED	= 50 MPH	= 45 MPH	= 40 MPH	= 50 MPH
ESALS	= 2,270,300	= 3,723,000	= 3,723,000	= 5,329,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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

Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Waukesha County, NAD 1983(91)

Elevations shown on this plan are referenced to the National Geodetic Vertical Datum of 1929 (NGVD 29).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WISDOT
Designer	NENG YANG
Project Manager	MOHAMMAD HOSSAIN
District Examiner	
District Supervisor	
C.O. Examiner	

APPROVED FOR DISTRICT OFFICE

DATE: 8-01-2013 (Signature)

E

CONTACTS

MR. CRAIG WEBSTER
DNR LIAISON
141 N. W. BARSTOW ST. RM. 180
WAUKESHA, WI 53187
PHONE: (262) 574-2141
E-MAIL: Craig.Webster@Wisconson.gov

MR. GARY EVANS, ENG. SERVICES MGR.
WAUKESHA COUNTY DPW
1320 PEWAUKEE ROAD, RM. 220
WAUKESHA, WI 53188
PHONE: (262) 548-7740
FAX: (262) 896-8097
E-MAIL: GEVANS@WAUKESHACOUNTY.GOV

MS. GAIL TAMEZ
VILLAGE CLERK, VILLAGE OF WALES
VILLAGE OF WALES
129 W. MAIN STREET
WALES, WI 53183
PHONE: (262) 968-3968
FAX: (262) 968-5649
E-MAIL: walesclerk@bizwi.rr.com

MR. TOM EARLE
PUBLIC WORKS SUPERVISOR
TOWN OF GENESEE
PO BOX 242
GENESEE DEPOT, WI. 53127
(262) 968-3656

MR. JIM MOON
WALES-GENESEE FIRE DEPT. CHIEF
600 S. WALES ROAD
WALES, WI 53183
PHONE: (262) 968-3301
FAX: (262) 968-3304
E-MAIL: jmoonwgfd@wi.rr.com

MR. KEN MACE
DEPARTMENT OF PUBLIC WORKS
VILLAGE OF WALES
129 W. MAIN STREET
WALES, WI 53183
PHONE: (262) 968-3968

MR. MOHAMMAD HOSSAIN
WisDOT PROJECT MANAGER SE-REGION
141 N W BARSTOW STREET
PO BOX 798
WAUKESHA, WI 53187-0798
PHONE: (262) 548-8783
FAX: (262) 521 5357
E-MAIL: mohammad.hossain@dot.wi.gov

MR. STEVE HANSON, P.E.
YAGGY COLBY ASSOCIATES
501 MAPLE AVENUE
DELAFIELD, WI 53018
PHONE: (262) 646-6855 EXT. 210
FAX: (262) 646-6864
E-MAIL: steveh@yaggy.com

MR. MATT PFEIFER
WisDOT SE REGION LIGHTING ENGINEER
141 NW BARSTOW STREET
P.O. BOX 0798
WAUKESHA, WI 53187-0798
PHONE: 262-548-5921
CELL: 2414-975-4646
E-MAIL: matthew.pfeifer@dot.wi.gov

UTILITIES

Mr. Dan Sande, Project Manager
We Energies (Electric)
333 W. Everett St - A279
Milwaukee, WI 53203
Phone: (414) 221-4578
Fax: (414) 221-2336
dan.sande@we-energies.com

Mr. Dennis Haag, Supervisor
CenturyLink
144 N Pearl Street
PO Box 70
Berlin, WI 54923
Phone: (920) 361-0040
Fax: (920) 361-8429
Dennis.haag@centuryLink.com

Mr. Jim Burton
Sprint Communications, L.P.
400 W Grand Avenue
Elmhurst, IL 60126
Phone: (708) 955-6659
James.buurton@ericsson.com

Mr. Kevin Anderson, Area Manager
AT&T Wisconsin
2005 Pewaukee Road
Waukesha, WI 53188
Phone: (262) 896-7440
Fax: (262) 896-7435
ka8421@att.com

Mr. Dan Sande, Project Manager
We Energies (Gas Operations)
333 W. Everett St - A279
Milwaukee, WI 53203
Phone: (414) 221-4578
Fax: (414) 221-2336
dan.sande@we-energies.com

Mr. Steve Cramer, Utility Coord.
Time Warner Cable
1320 N. Martin Luther King Jr. Dr.
Milwaukee, WI 53212
Phone: (414) 277-4045
Fax: (414) 277-0638
steve.cramer@twcable.com

Mr. John Haug
Traffic Engineering Supervisor
WisDOT Signals
141 NW Barstow St
PO Box 798
Waukesha, WI 53187 0798
Phone: (262) 521-5356
john.haug@dot.wi.gov

Mr. Trevor Peevey
Level 3 Communications, LLC
1122 Captal of Texas Hwy South
Austin, TX 78746
Phone: (512) 742-3805
Level3.Networkrelocations@level3.co

Mr. Carl Donahue
AT&T Corp.
866 Rock Creek Road
Plano, IL 60545
Phone: (847) 420-9115
Fax: (847) 244-9597
cdonahue@ems.att.com

DIGGERS HOTLINE

Call 811 3 Work Days Before You Dig
Or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

2

GENERAL NOTES

THE LOCATIONS OF EXISTING OR PROPOSED UTILITIES, AS NOTED ON THE PLANS, ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPERATELY.

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

ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES SHALL BE BACKFILLED WITH SUITABLE MATERIAL, OR AS DIRECTED BY THE ENGINEER.

DIMENSIONS GIVEN FOR EXISTING FEATURES SHALL BE CONSIDERED AS APPROXIMATE AND SHALL BE MEASURED IN THE FIELD FOR MATCHING PURPOSES.

CURB AND GUTTER RADII, GRADES AND OFFSETS ARE TO THE FLANGE UNLESS NOTED OTHERWISE.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF SALVAGED TOPSOIL WHERE REQUIRED.

EXCAVATION BELOW SUBGRADE (EBS) SHALL BE MEASURED AND PAID FOR AS EXCAVATION COMMON. THE EXACT LOCATION OF EBS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL SHALL NOT BE PERMITED IN WETLANDS.

ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCLUDING ROAD BED, ARE TO BE TOPSOILED OR SALVAGED TOPSOILED, FERTILIZED, AND SEEDED, SODDED, MULCHED OR EROSION-MATTED AS DIRECTED BY THE ENGINEER. FINISHED SODDED SURFACES SHALL BE 1-INCH BELOW THE TOP OF ADJACENT CONCRETE ALONG THE SIDEPATH.

EROSION CONTROL BMP'S ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL BMP'S SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE BMP IS NO LONGER REQUIRED.

EROSION CONTROL FEATURES ARE TO BE PLACED IN SEQUENCE WITH CONSTRUCTION STAGING AND MAINTAINED THROUGH EACH STAGE OR AS DETERMINED BY THE ENGINEER.

REINFORCED CONCRETE APRON ENDWALLS AND ADJOINING TWO SECTIONS OF CONCRETE PIPE SHALL BE TIED TOGETHER AS SHOWN ON THE STANDARD DETAIL DRAWINGS AND AS LOCATED IN THE MISCELLANEOUS QUANTITIES. JOINT TIES SHALL BE INCIDENTAL ITEMS INCLUDED IN THE COST OF THE CONCRETE PIPE.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS. PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN WITH THE ENGINEER.

IMMEDIATELY AFTER CONSTRUCTION OF ANY INLET, CONTRACTOR SHALL CONSTRUCT THE INLET PROTECTION TO MINIMIZE SEDIMENTATION IN THE INLET AND STORM SEWER.

WHEN TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IS REQUIRED TO BE USED, IT SHALL BE CUT THRU IT'S FULL WIDTH AND THICKNESS AT 25-FOOT INTERVALS TO CONTROL RAVELING.

EXISTING DRIVEWAYS AND FIELD ENTRANCES WILL BE RESTORED IN KIND AS DIRECTED BY THE ENGINEER IN THE FIELD AND AT THE LOCATION DETERMINED BY THE ENGINEER.

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORAITON OF CONCRETE OR ASPHALT DRIVEWAYS, SIDEWALKS, OR SIDE STREETS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER.

A SAWED JOINT IS REQUIRED WHERE NEW HMA SURFACE MEETS EXISTING ASPHALTIC CONCRETE SURFACE.

SHOULDERS SHALL BE PAVED FULL WIDTH IN LOCATIONS WHICH REQUIRE STEEL PLATE BEAM GUARD AND SHALL BE PAVED PRIOR TO BEAM GUARD INSTALLATION.

THE REMOVAL OF CONCRETE DRIVEWAYS AND CONCRETE MEDIANS WILL BE MEASURED AND PAID FOR IN ACCORDANCE WITH THE ITEM OF REMOVING CONCRETE SIDEWALK.

FINISHING ROADWAY SHALL INCLUDE CLEANOUT OF EXISTING DRAINAGE STRUCTURES AS DIRECTED BY THE ENGINEER.

5 1/2 INCH PAVEMENT TYPE E-3			
2	INCH UPPER LAYER	12.5 MM	PG64-28
3 1/2	INCH LOWER LAYER	25.0 MM	PG64-22
6 1/2 INCH PAVEMENT TYPE E-3			
2	INCH UPPER LAYER	12.5 MM	PG64-28
4 1/2	INCH LOWER LAYER	25.0 MM	PG64-22

2

2

N

GENESEE

WALES

DELAFIELD

EQUATION
STA 647+00.00 S-℄ =
STA 1448+00.00 ℄

END PROJECT
STA 1587+01.09 ℄
STA 1586+94.22 NB ℄

BEGIN PROJECT
STA 615+00.00 S-℄

GENESEE

CTH E

CTH G

CTH DE

STH 83

USH 18

W. BRANDYBROOK RD.

PORTHAMEL CT.

STA. 651+83.17

STA. 1482+62.87

CEMETERY

FIRE STATION

CEMETERY

E. BRANDYBROOK RD.

S. WELSH RD.

BENTON CT.

CYMRIC CT.

STA. 741+05.87

HIGH MEADOW LN.

BOYS SCHOOL DR.

E. WELSH RD.

W. SOUTH ST.

W. CRIGLASS RD.

W. MAIN ST.

STA. 1519+82.74

GLACIAL DRUMLIN TRAIL

GLACIER PASS

GLACIER PASS

PERKINS RD.

LONDON DR.

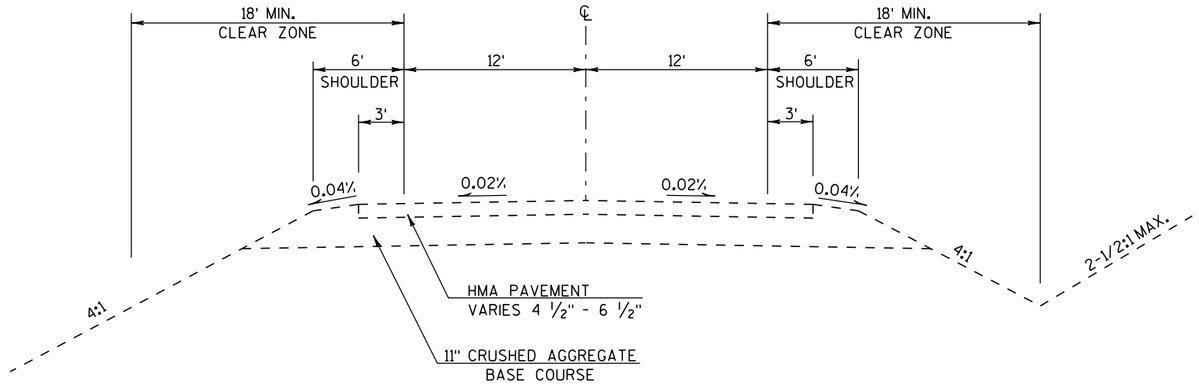
HARVEST VIEW DR.

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : J:\projects\d2_13301883\020201_PO.DGN PLOT DATE : 30-JUL-2013 15:42 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 1400:1

WISDOT/CADDS SHEET 42

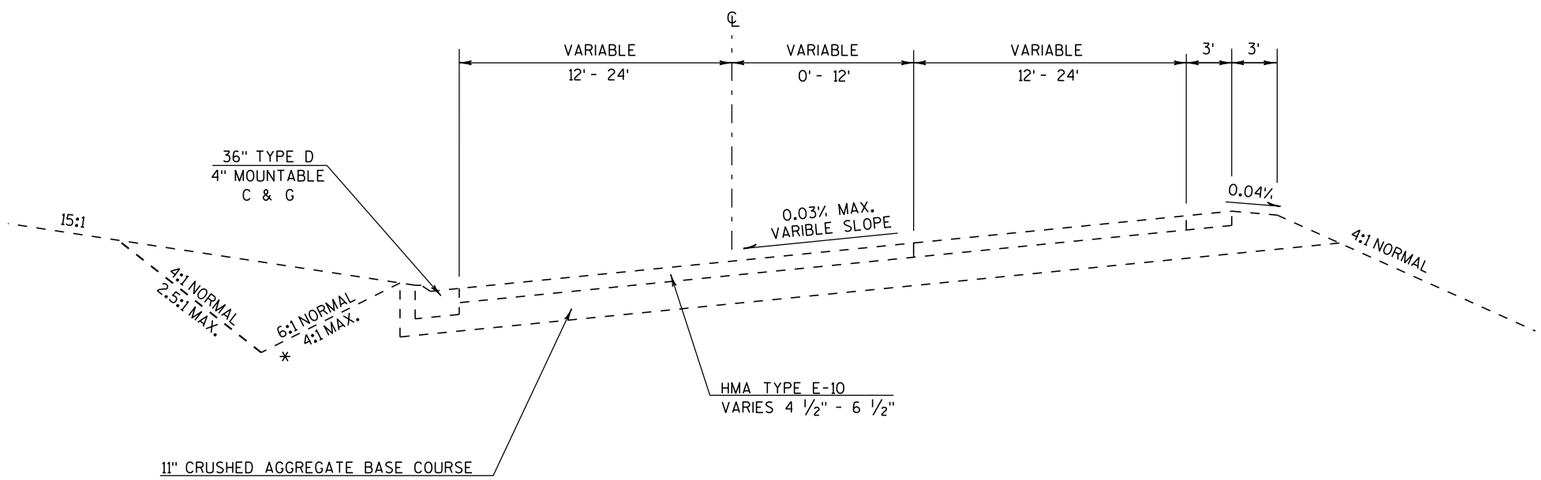
2



TYPICAL EXISTING SECTION

STH 83

STA 615+00 TO STA 643+00
STA 1459+85 TO STA 1539+26

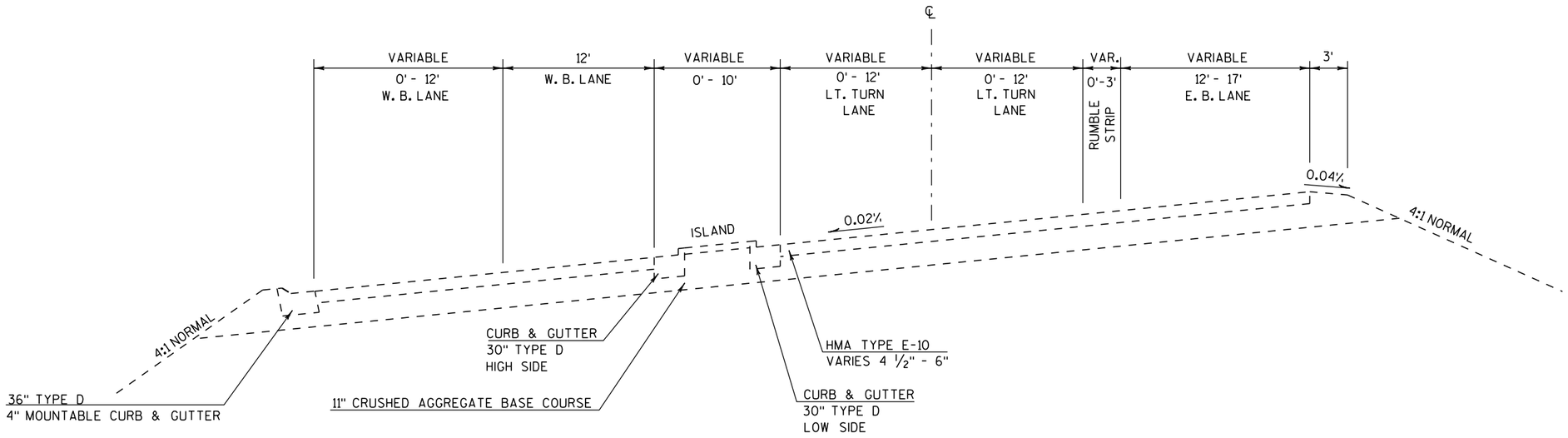


TYPICAL EXISTING SUPERELEVATED SECTION

STH 83

STA 643+00 TO STA 652+00

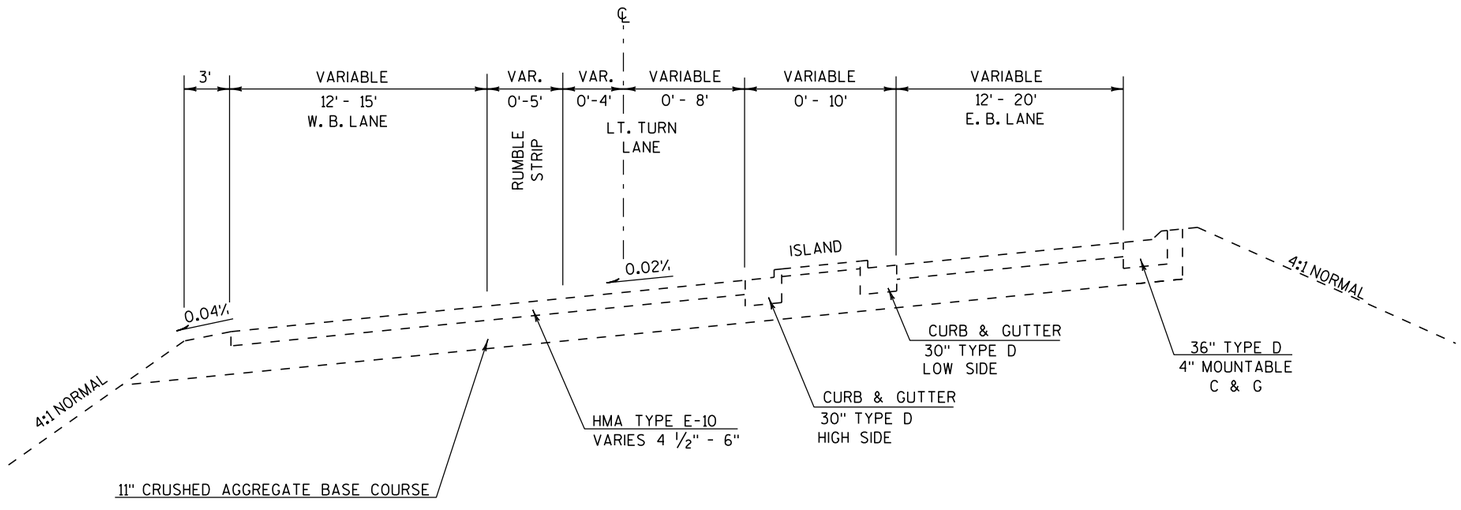
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 5	E



TYPICAL EXISTING SUPERELEVATED SECTION

CTH E

STA 52+00 TO STA 59+50

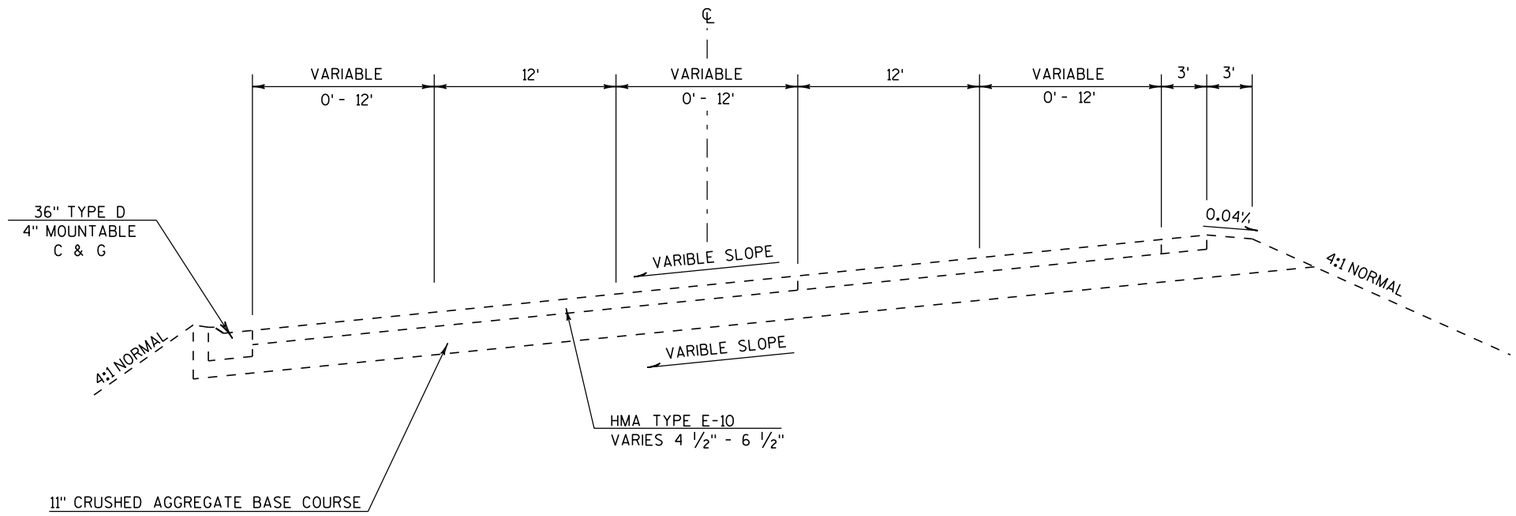


TYPICAL EXISTING SUPERELEVATED SECTION

CTH DE

STA 60+50 TO STA 66+50

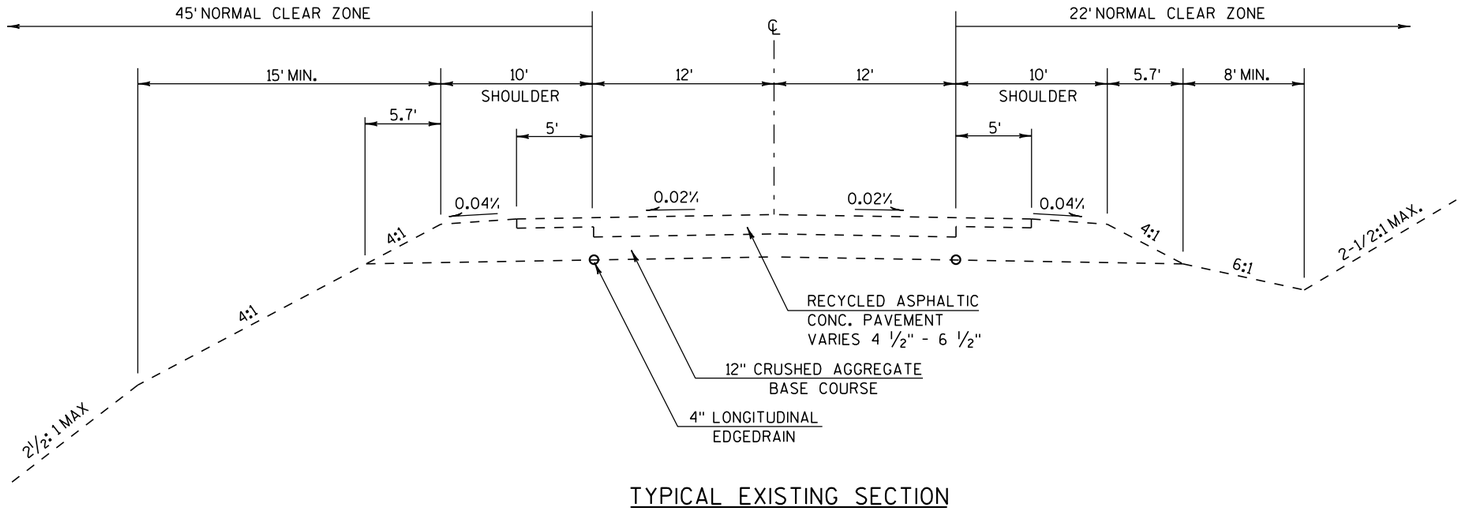
2



TYPICAL EXISTING SUPERELEVATED SECTION

STH 83

STA 652+00 TO STA 1459+85



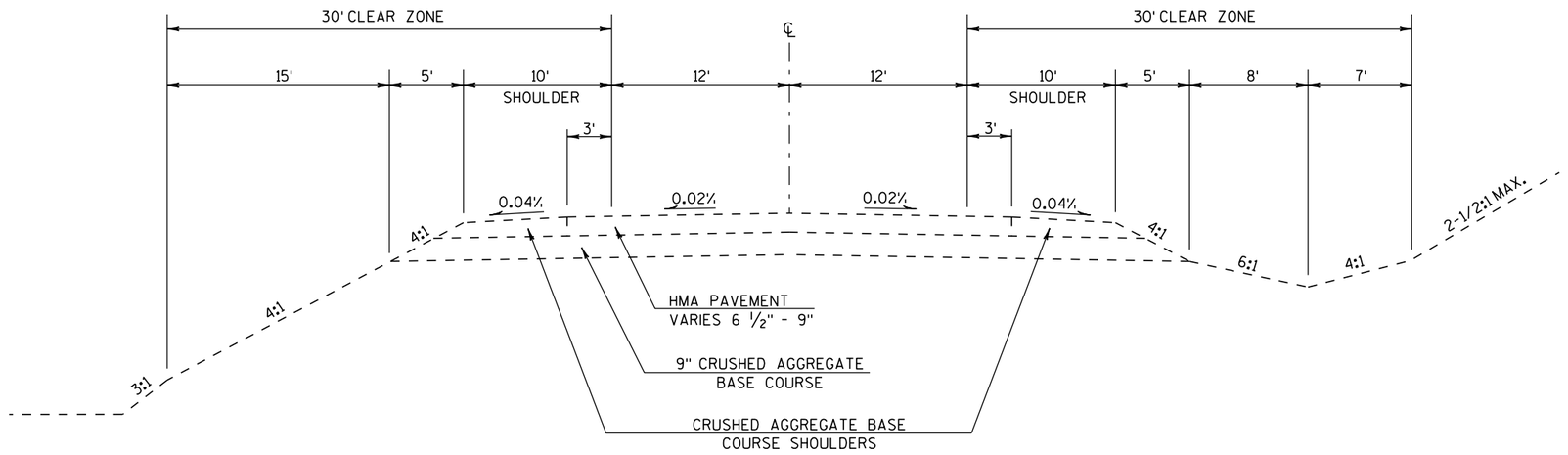
TYPICAL EXISTING SECTION

STH 83

STA 1539+26 TO STA 1587+01.09

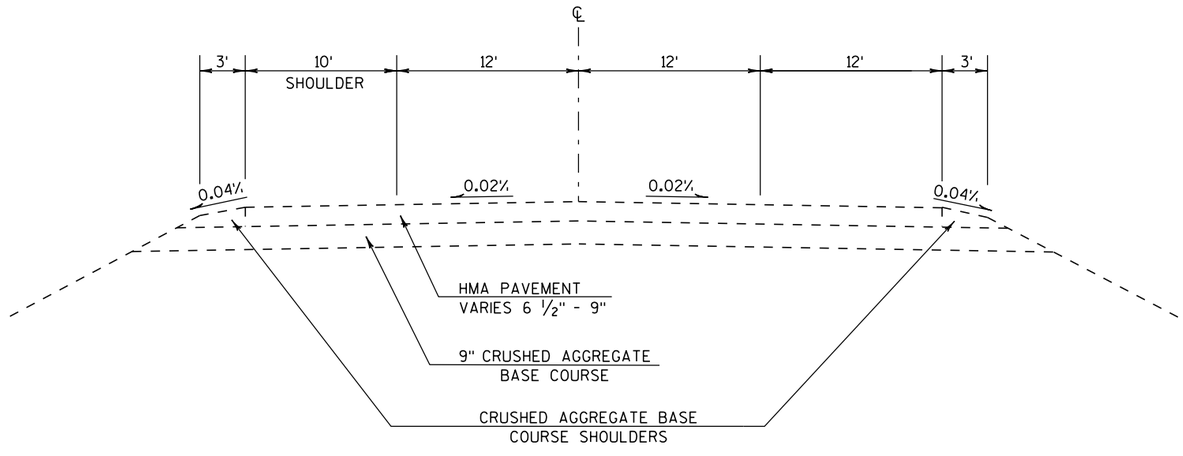
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 7	E

2



TYPICAL EXISTING SECTION

USH 18
STA 70+00 - 80+00

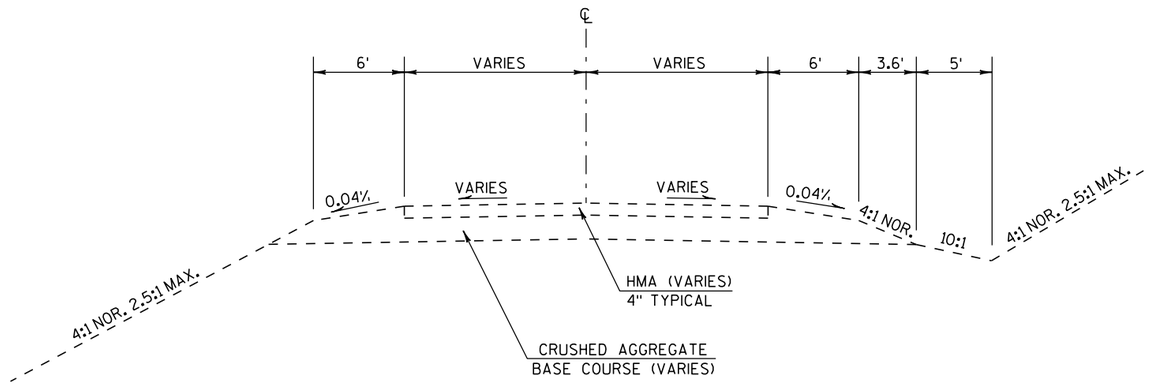


TYPICAL EXISTING SECTION

USH 18
STA 82+50 - 98+00

PROJECT NO: 1330-18-70	HWY: USH 18	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 8	E

2

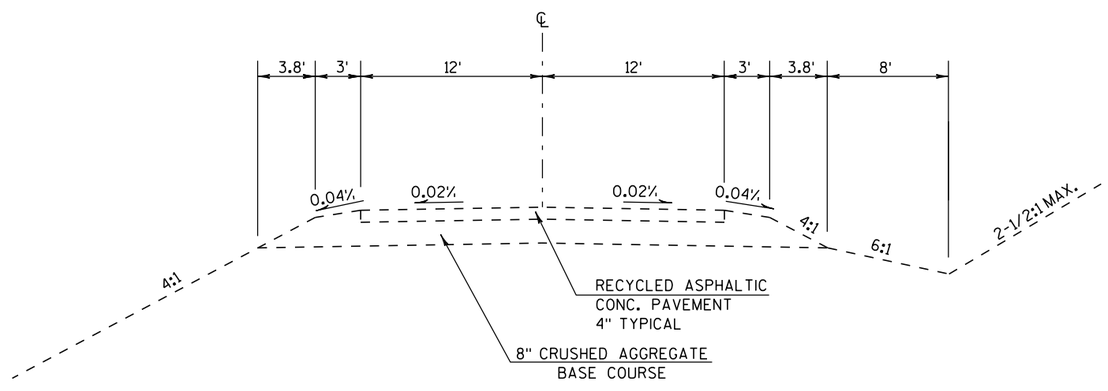


TYPICAL EXISTING SECTION

*SIDE ROADS

*SIDE ROADS

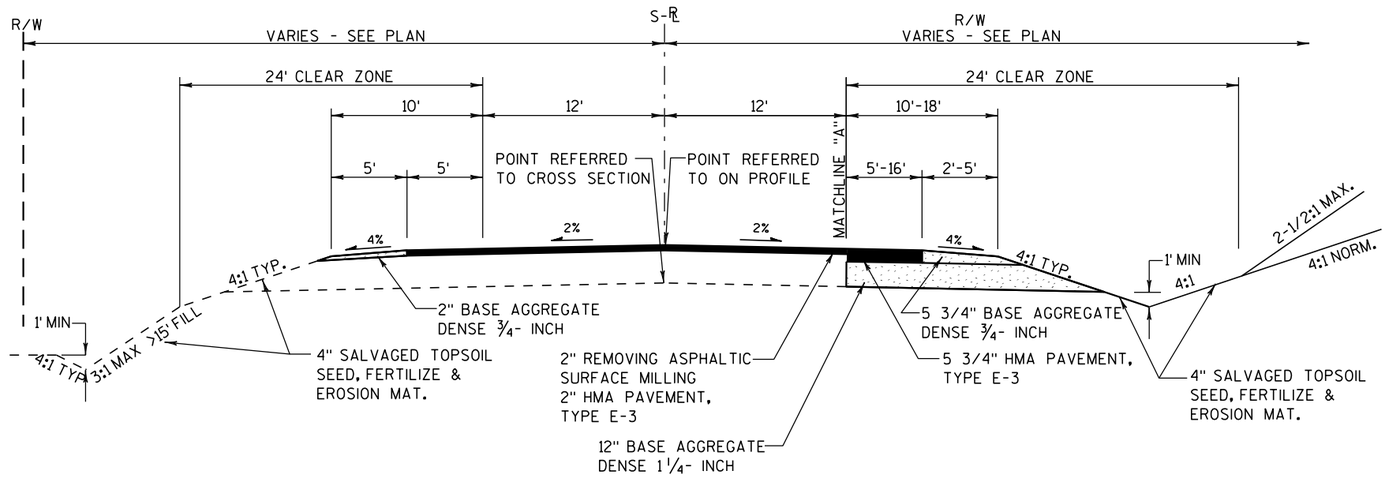
PERKINS RD.
LONDON DR.
PORTHAMEL CT.
BRANDYBROOK RD.
WELSH RD.
SOUTH ST.
CRIGLAS RD.
CYMRIC CT.
HIGH MEADOW CIR.
HIGH MEADOW LN.
BOYS SCHOOL RD.
GLACIER PASS S.
GLACIER PASS N.



TYPICAL EXISTING SECTION

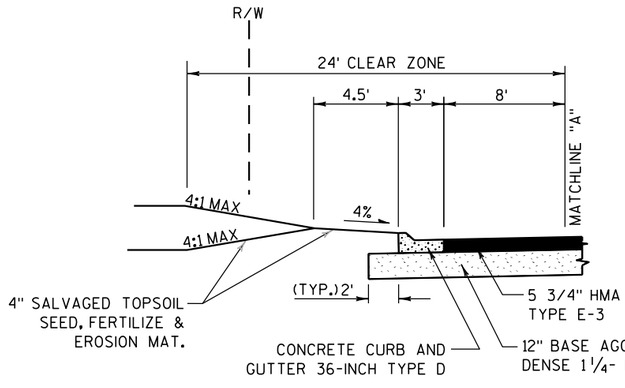
CTH G

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 9	E



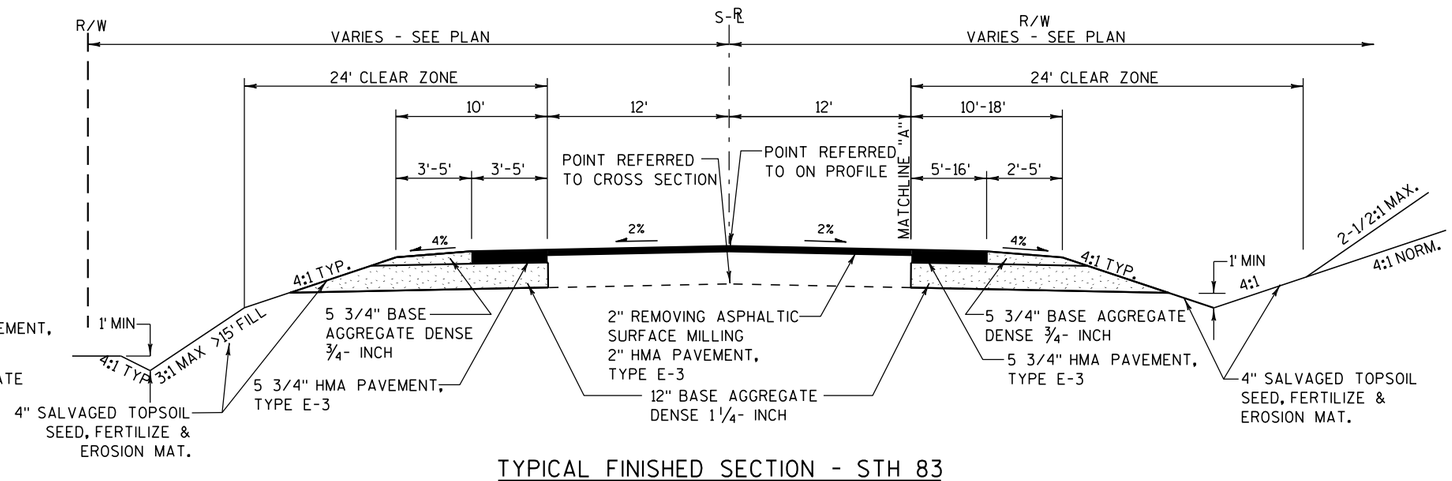
TYPICAL FINISHED SECTION - STH 83

STA. 615+00 - STA. 619+43



URBAN SECTION - STH 83

STA. 625+10 - STA. 627+50, LT.

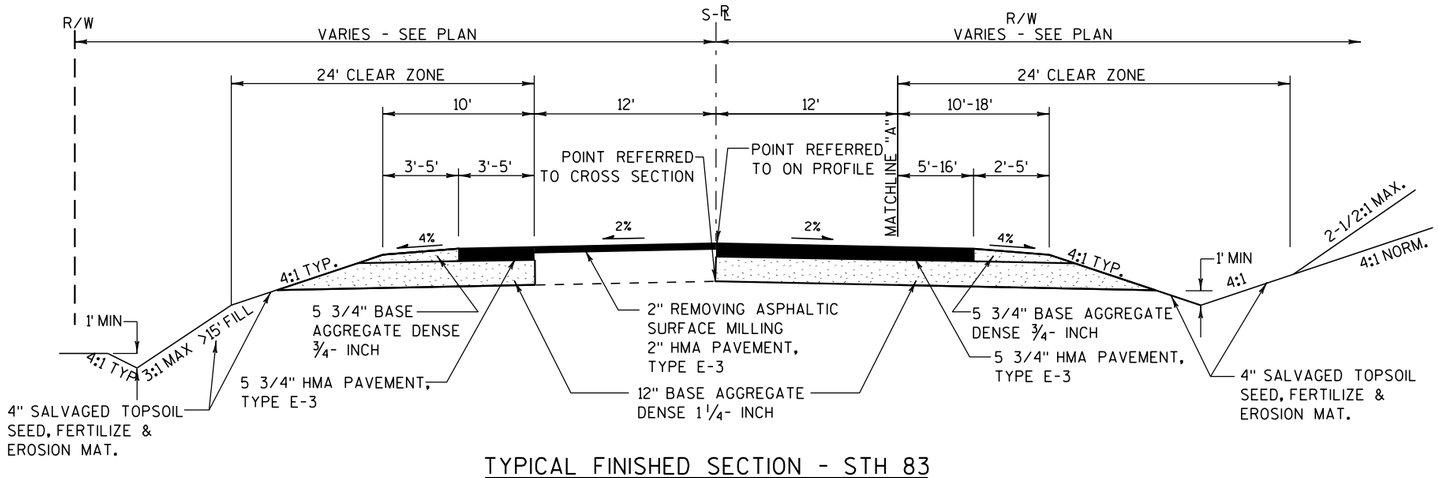


TYPICAL FINISHED SECTION - STH 83

STA. 619+43 - STA. 623+00

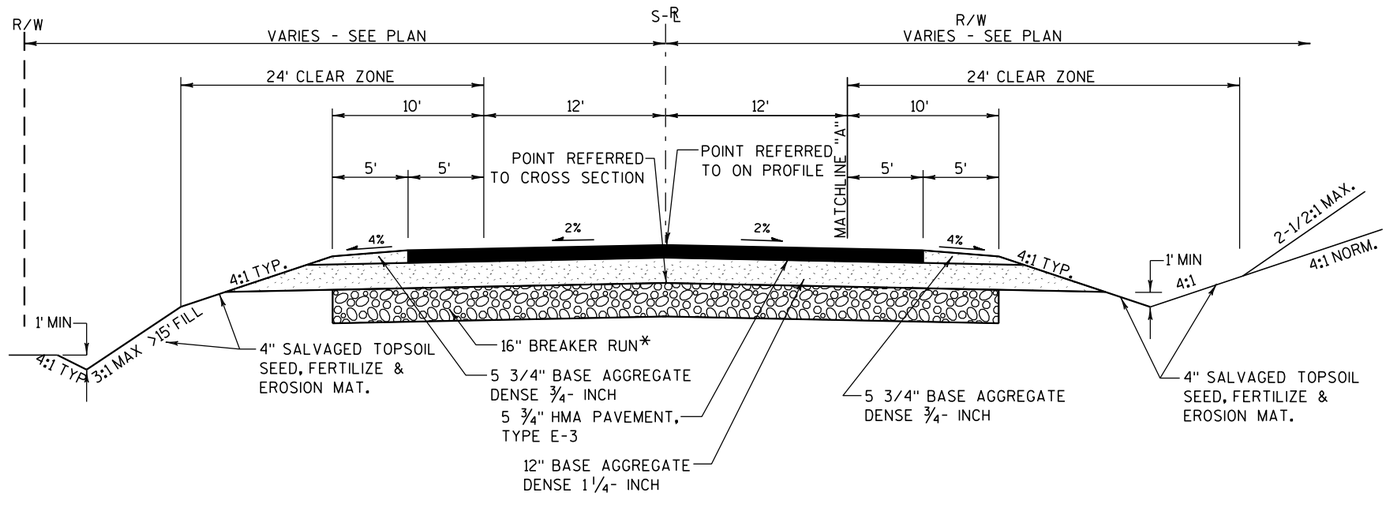
STA. 638+00 - STA. 646+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 10	E



TYPICAL FINISHED SECTION - STH 83

STA. 623+00 - STA. 624+00

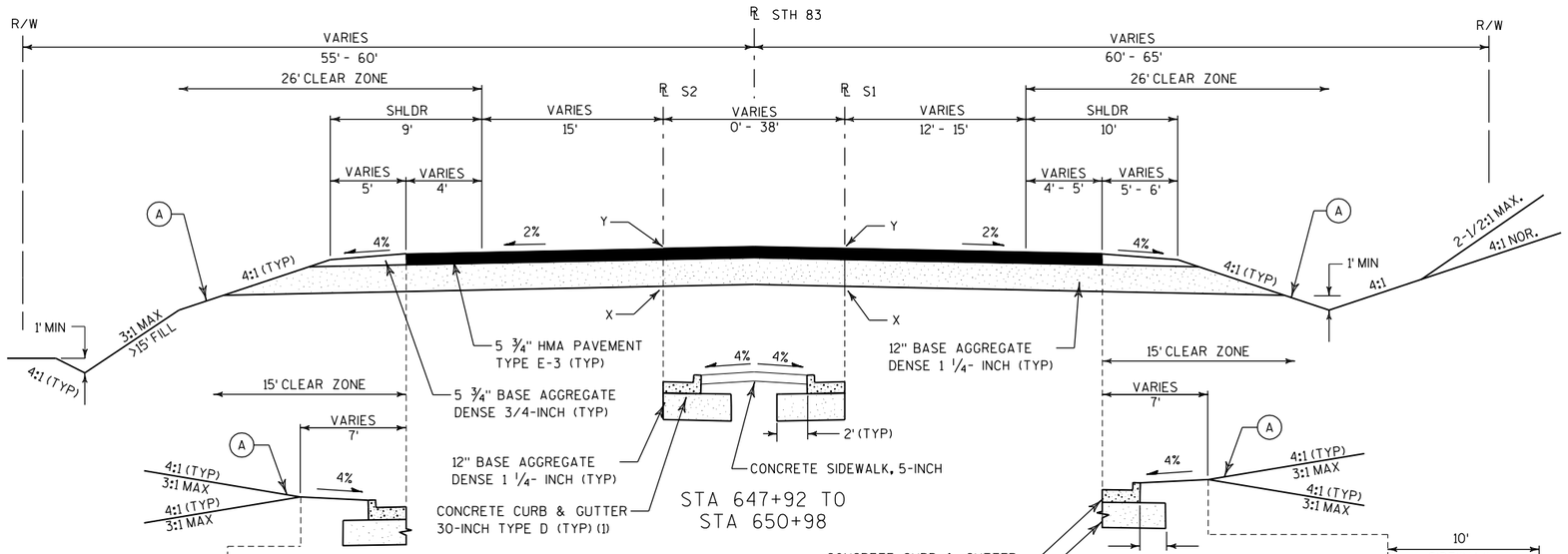


TYPICAL FINISHED SECTION - STH 83

STA. 624+00 - STA. 638+00

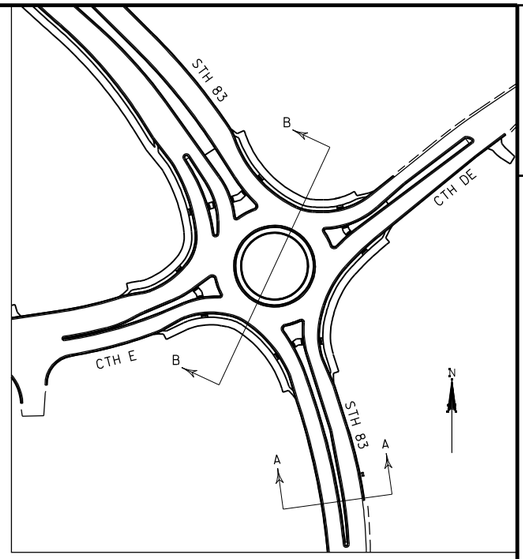
* STA. 628+00 - STA. 633+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 11	E



TYPICAL FINISHED SECTION - STH 83

SECTION A-A
STA 646+00 - STA 650+98



SECTION LOCATION MAP

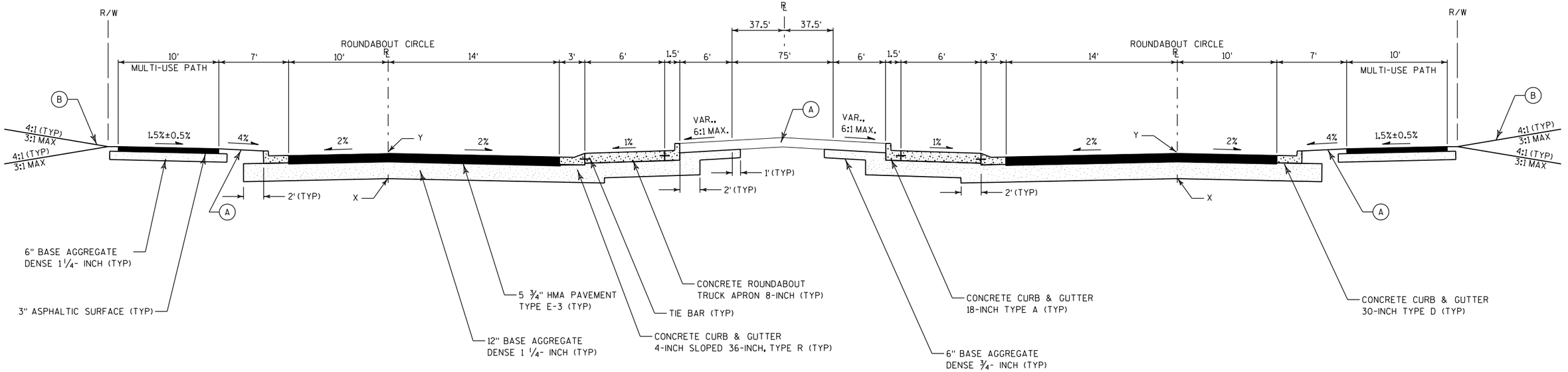
NOTES:

X = SUBGRADE POINT REFERRED TO ON CROSS SECTIONS
Y = POINT REFERRED TO ON PROFILE

(A) 6" SALVAGED TOPSOIL, FERTILIZER, SEED, EROSION MAT

(B) 6" SALVAGED TOPSOIL, FERTILIZER, SEED, MULCH

(1) STA 646+96 - STA 649+37
CONCRETE CURB & GUTTER
4-INCH SLOPED 36-INCH TYPE D

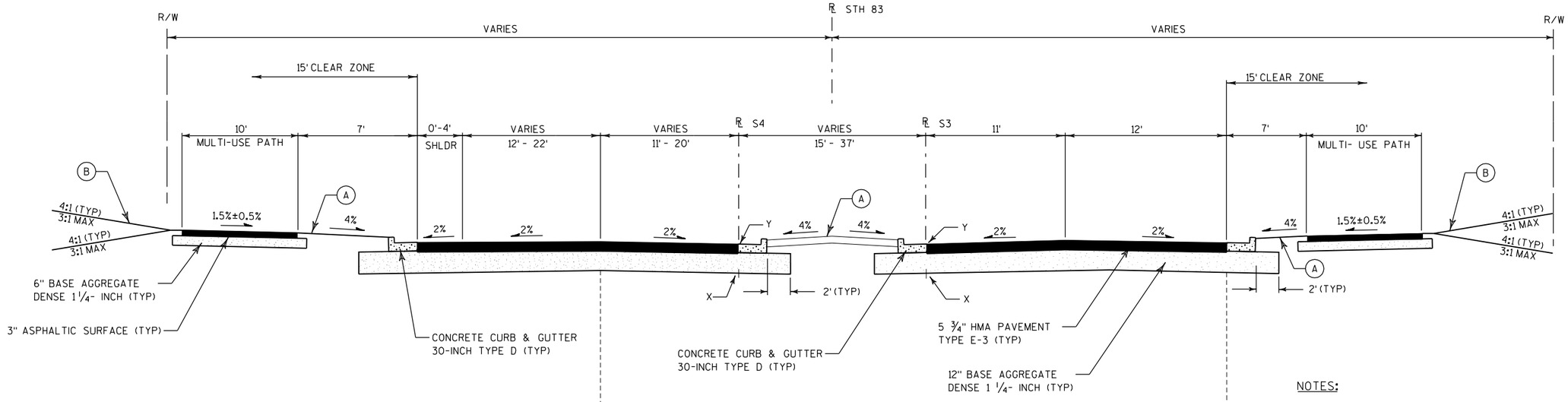


TYPICAL FINISHED SECTION - STH 83

SECTION B-B
AT ROUNDABOUT CIRCLE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 12	E

2

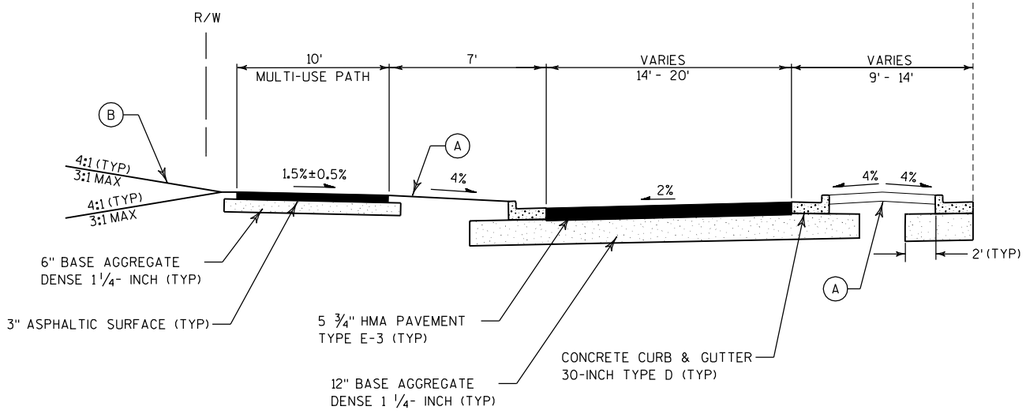


NOTES:

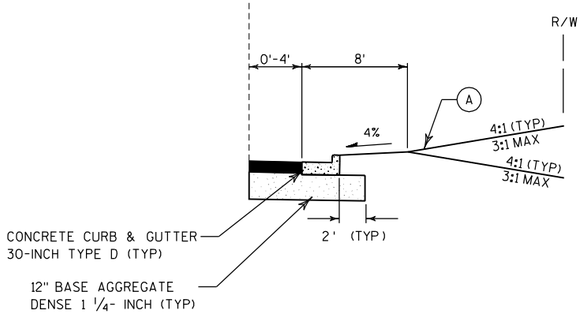
X = SUBGRADE POINT REFERRED TO ON CROSS SECTIONS
Y = POINT REFERRED TO ON PROFILE

(A) 6" SALVAGED TOPSOIL, FERTILIZER, SEED, EROSION MAT

(B) 6" SALVAGED TOPSOIL, FERTILIZER, SEED, MULCH

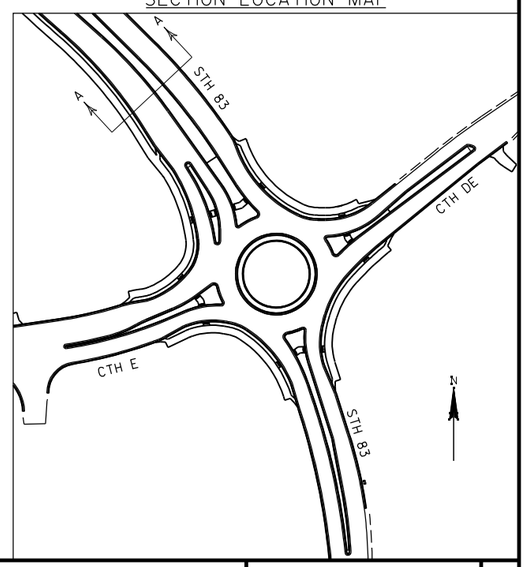


STA 652+54 - STA 653+66



STA 652+54 - STA 1459+00

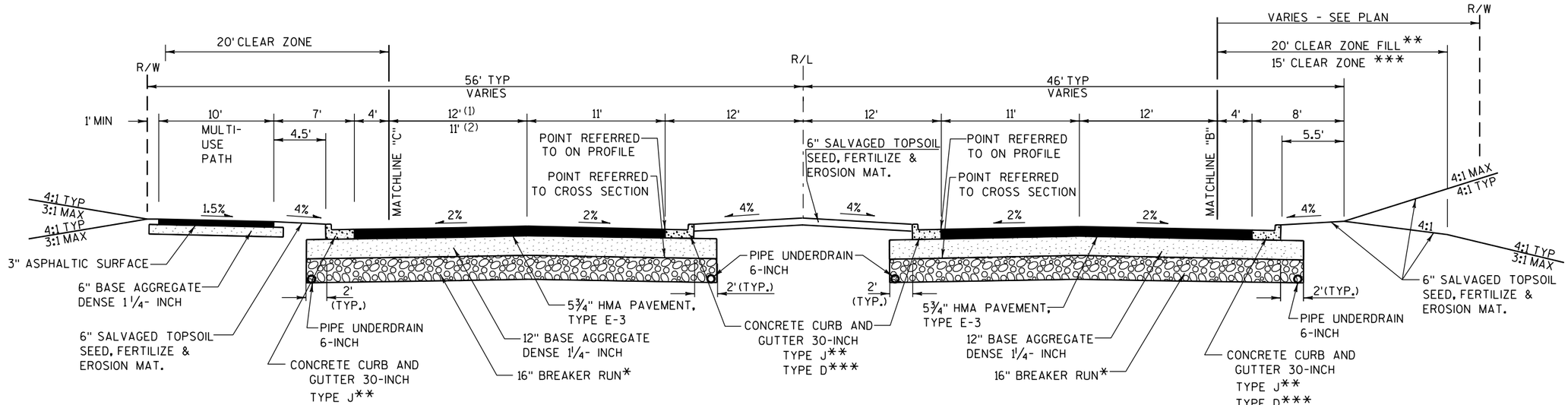
SECTION LOCATION MAP



TYPICAL FINISHED SECTION - STH 83

SECTION A-A
STA 652+54 - STA 1459+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 13	E



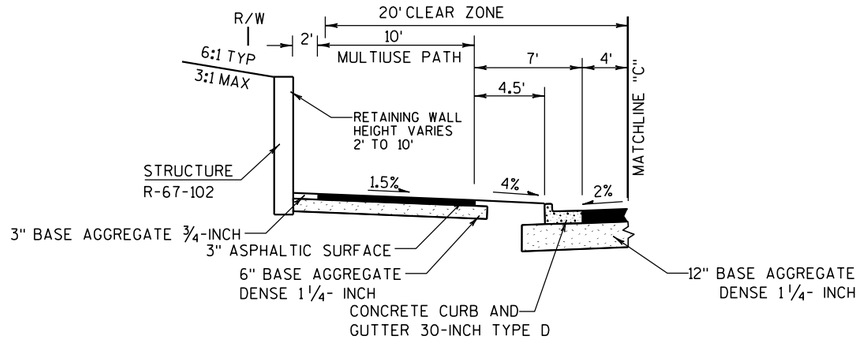
TYPICAL FINISHED SECTION - STH 83

* STA 1459+00 - STA 1462+00
* STA 1500+00 - STA 1506+00
* STA 1517+00 - STA 1522+00
BREAKER RUN

** STA 1459+00 - STA 1483+00
CONCRETE CURB AND GUTTER 30-INCH TYPE J

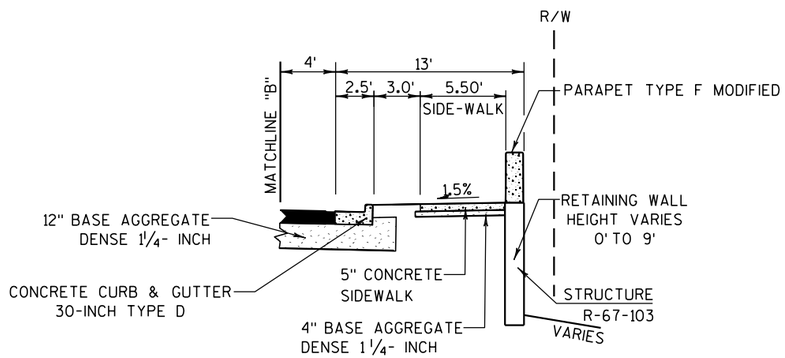
*** STA 1500+00 - STA 1533+00
CONCRETE CURB AND GUTTER 30-INCH TYPE D

SEE NOTES AND HALF SECTIONS ON THIS PAGE



RETAINING WALL SECTION - STH 83

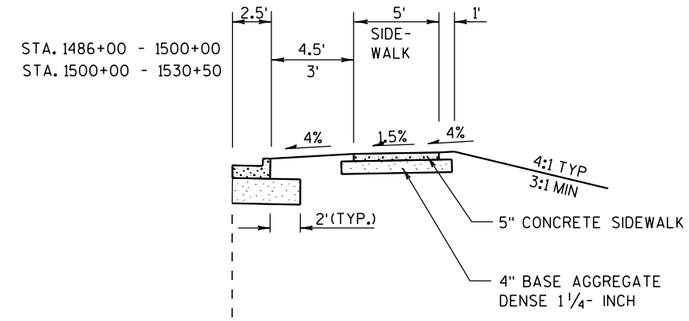
STA 1506+15 - STA 1509+75



RETAINING WALL SECTION - STH 83

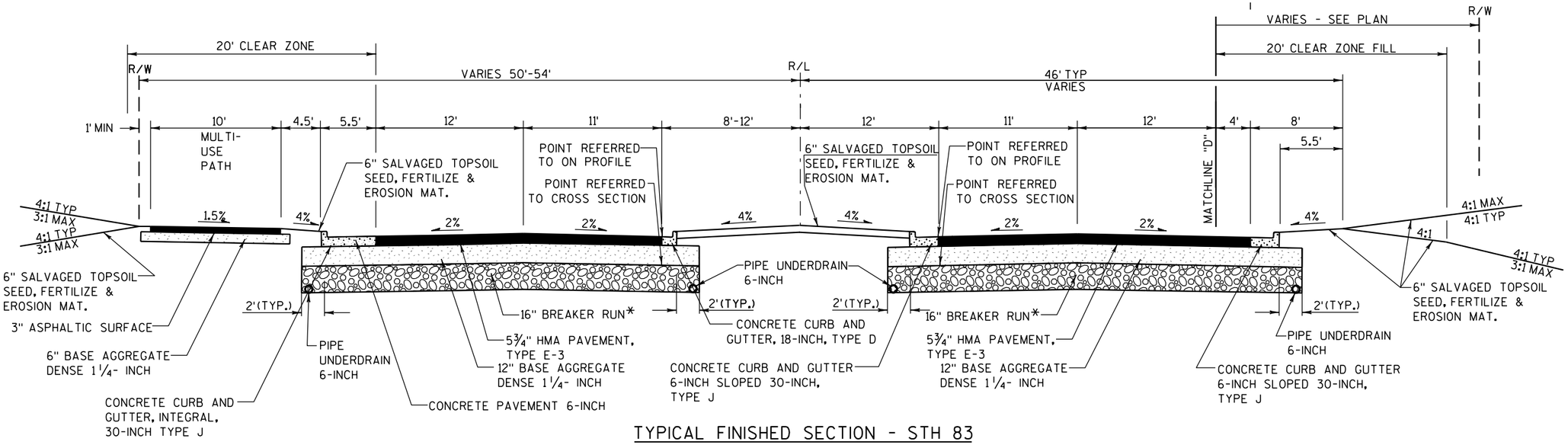
STA 1502+10 - STA 1507+93, RT

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 14	E



SIDEWALK SECTION - STH 83

STA 1486+00 - STA 1530+50

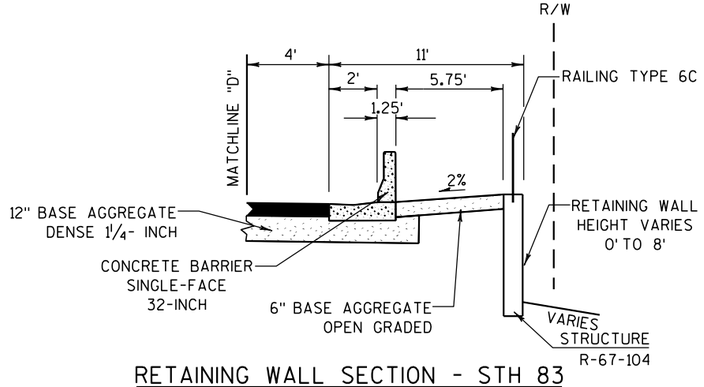


TYPICAL FINISHED SECTION - STH 83

STA 1483+00 - STA 1500+00

* STA 1486+00 - STA 1500+00

SEE NOTES AND HALF SECTIONS ON THIS PAGE

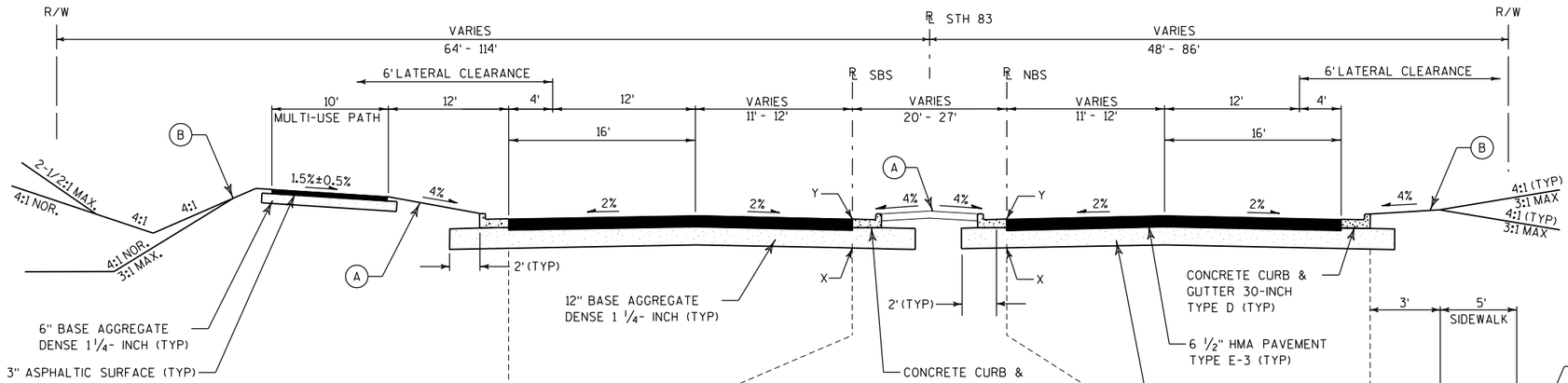


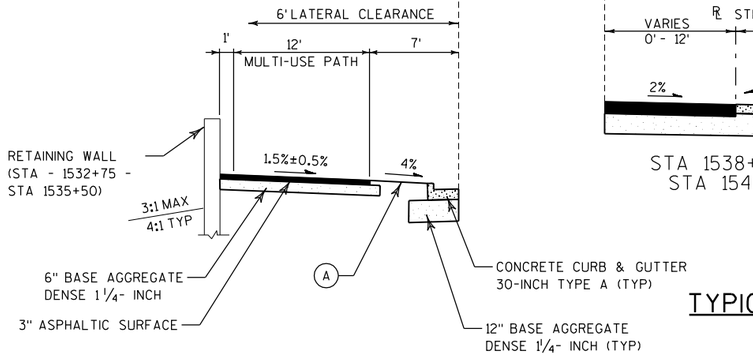
RETAINING WALL SECTION - STH 83

STA 1482+70 - STA 1484+25

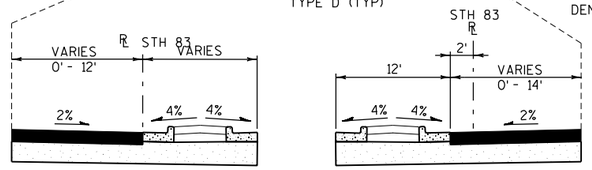
(CTH G TO BRANDYBROOK ROAD)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 15	E



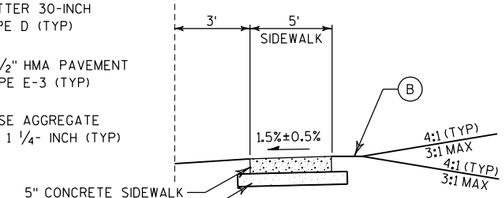


STA 1533+00 TO STA 1536+28

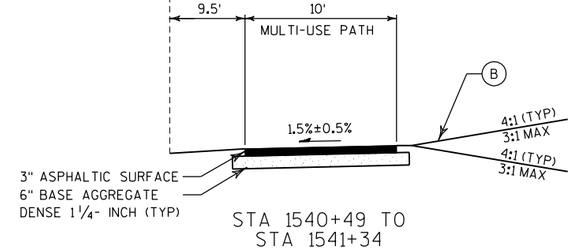


STA 1538+74 TO
STA 1540+50

STA 1534+90 TO
STA 1537+70



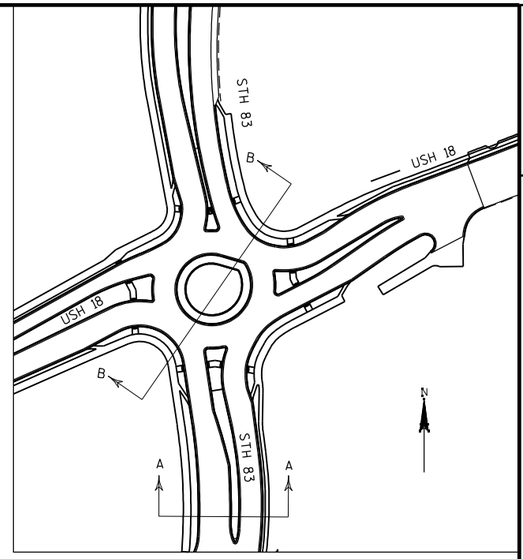
STA 1532+08 TO
STA 1540+49



STA 1540+49 TO
STA 1541+34

TYPICAL FINISHED SECTION - STH 83

SECTION A-A
STA 1533+00 - STA 1541+34



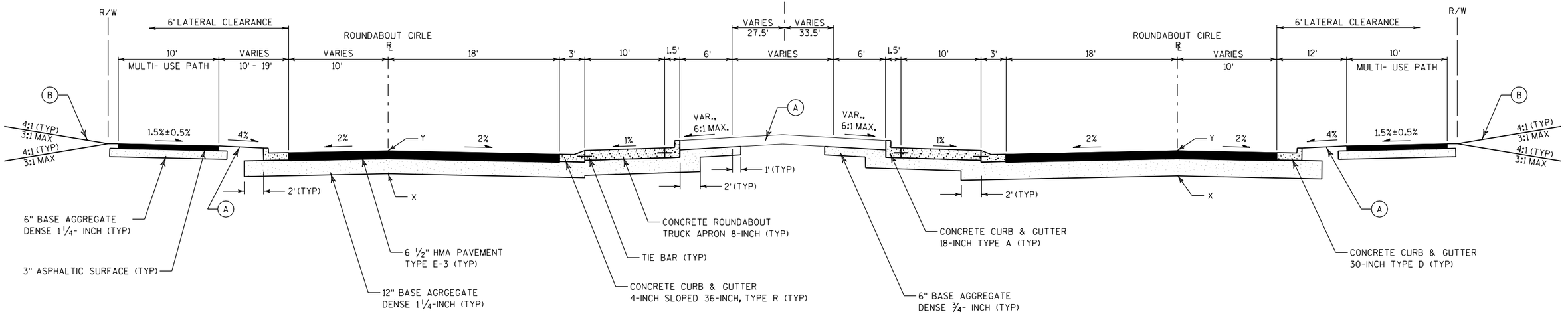
SECTION LOCATION MAP

NOTES:

X = SUBGRADE POINT REFERRED TO ON CROSS SECTIONS
Y = POINT REFERRED TO ON PROFILE

(A) 6" SALVAGED TOPSOIL, FERTILIZER, SEED, EROSION MAT

(B) 6" SALVAGED TOPSOIL, FERTILIZER, SEED, MULCH

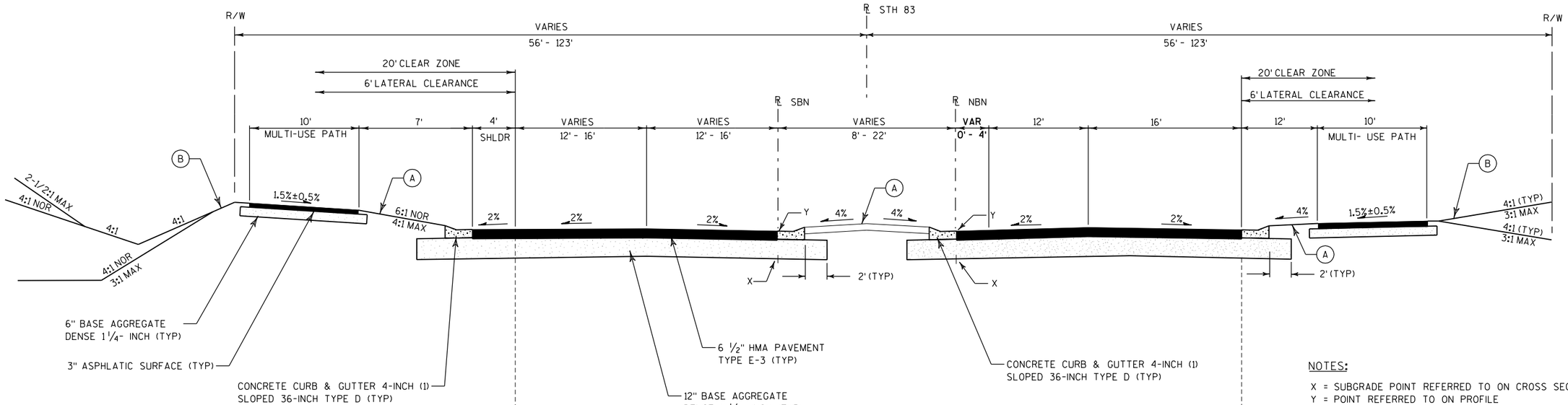


TYPICAL FINISHED SECTION - STH 83

SECTION B-B
THROUGH ROUNDABOUT CIRCLE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 16	E

2



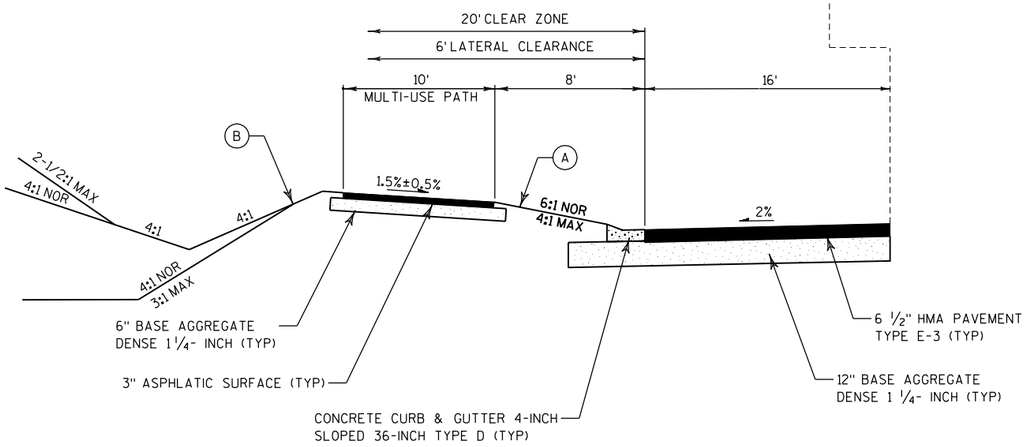
NOTES:

X = SUBGRADE POINT REFERRED TO ON CROSS SECTIONS
Y = POINT REFERRED TO ON PROFILE

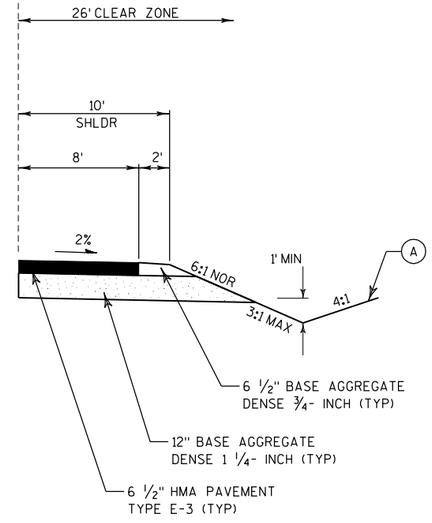
(A) 4" SALVAGED TOPSOIL, FERTILIZER, SEED, EROSION MAT

(B) 4" SALVAGED TOPSOIL, FERTILIZER, SEED, MULCH

(1) STA 1542+86 - STA 1546+54
CONCRETE CURB & GUTTER 30-INCH TYPE A

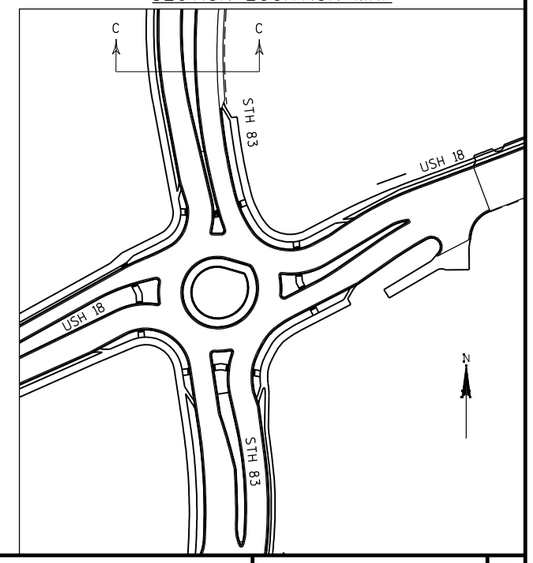


STA 1547+64 - STA 1551+00



STA 1544+50 - STA 1551+00

SECTION LOCATION MAP

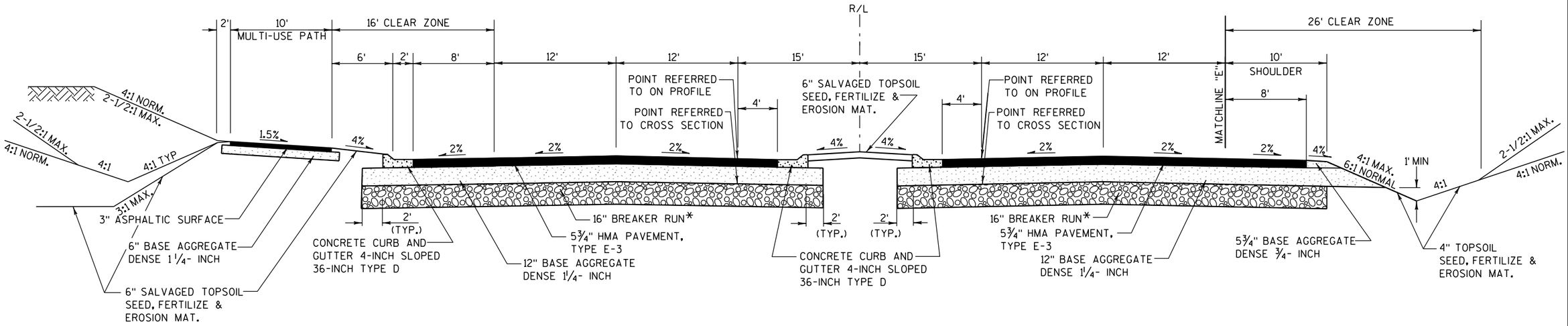


TYPICAL FINISHED SECTION - STH 83

SECTION C-C
STA 1542+86 - STA 1551+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 17	E

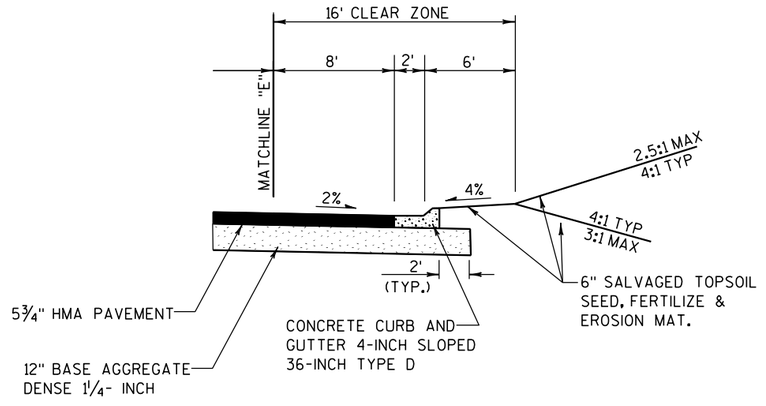
FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_020302d_ts.dgn
PLOT DATE : 7/17/2013 2:56:17 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 200.0000 FT / IN.
WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION - STH 83

STA 1551+00 - STA 1566+58

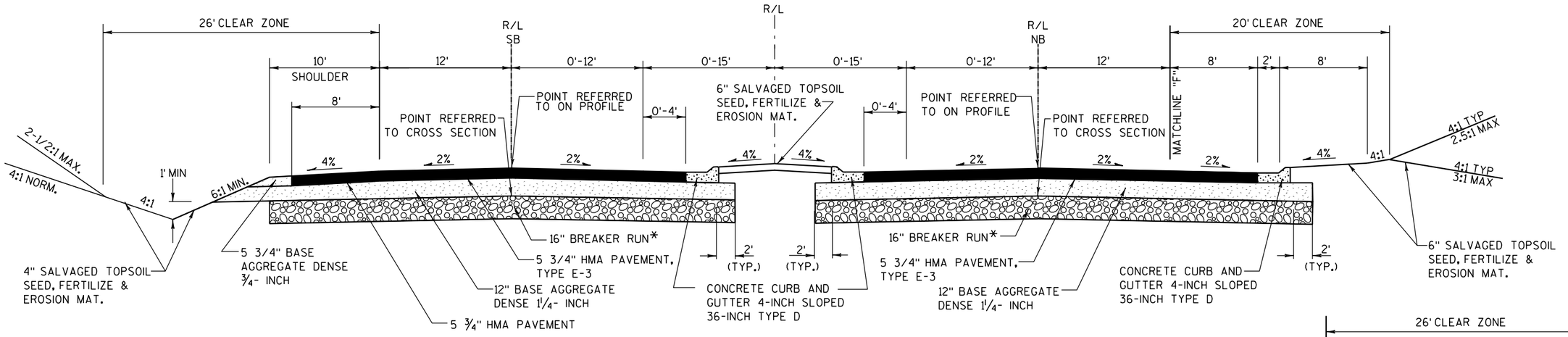
* STA 1560+00 - STA 1566+58



NB URBAN SECTION - STH 83

STA 1554+70 - STA 1566+58

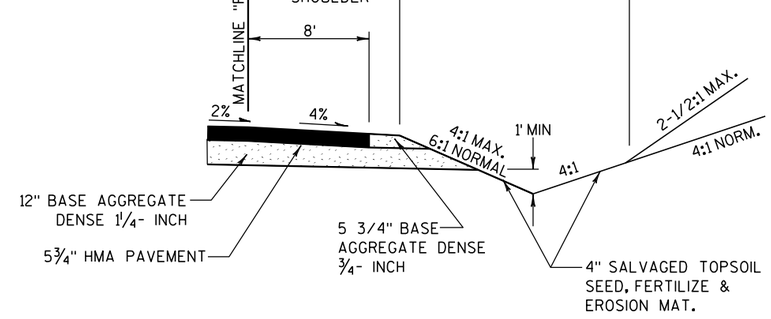
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 18	E



TYPICAL FINISHED SECTION - STH 83

STA 1566+58 - STA 1574+50 (NB ℄)

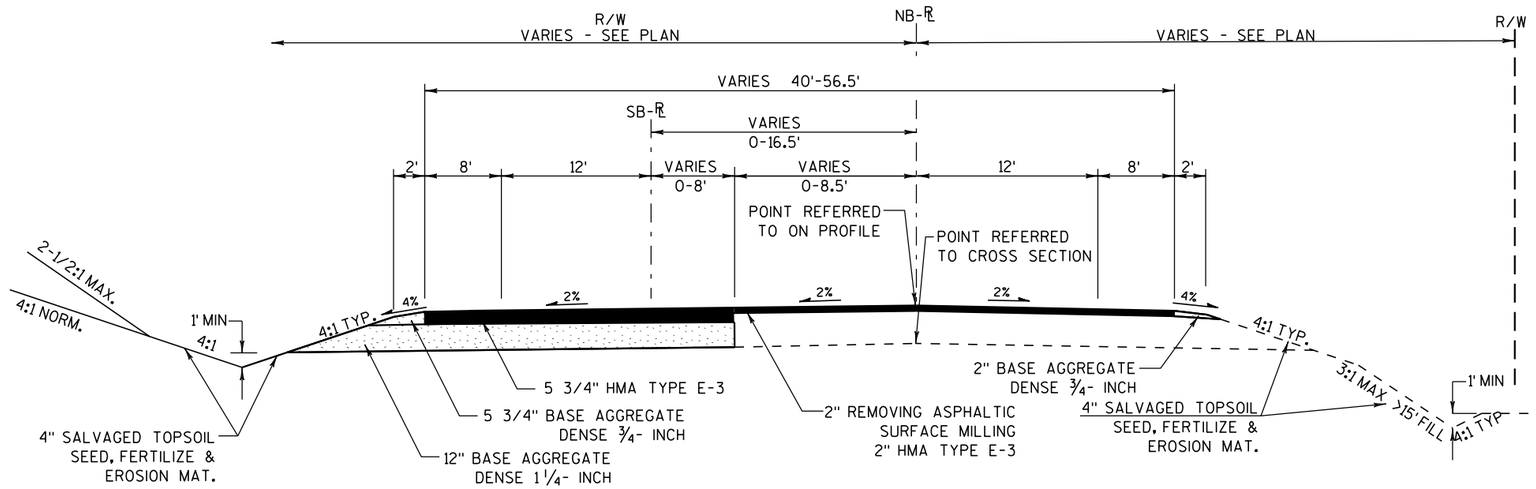
* STA 1566+58 - STA 1567+00



NB RURAL SECTION - STH 83

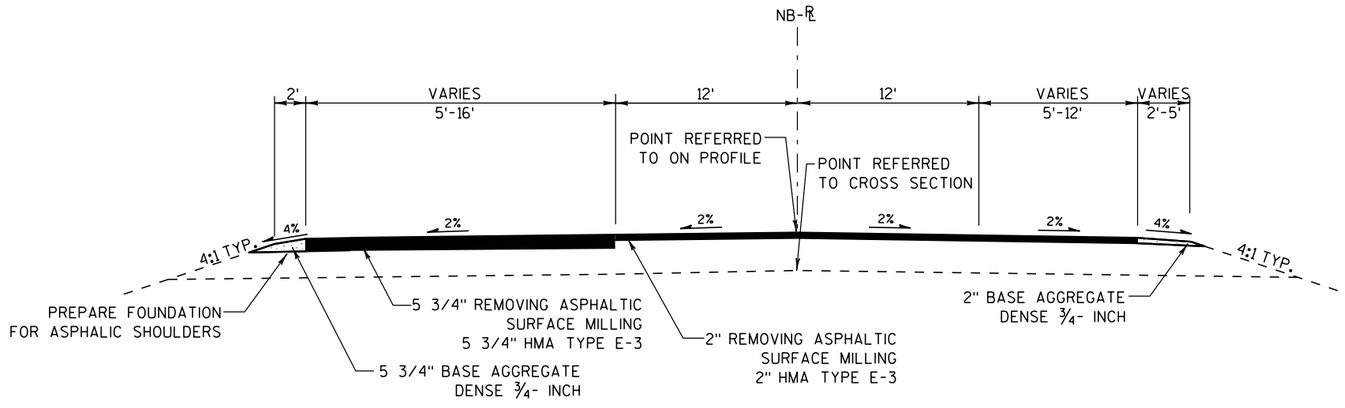
STA 1572+50 (NB ℄) - STA 1574+50 (NB ℄)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 19	E



TYPICAL FINISHED SECTION - STH 83

STA. 1574+50 - STA. 1579+85

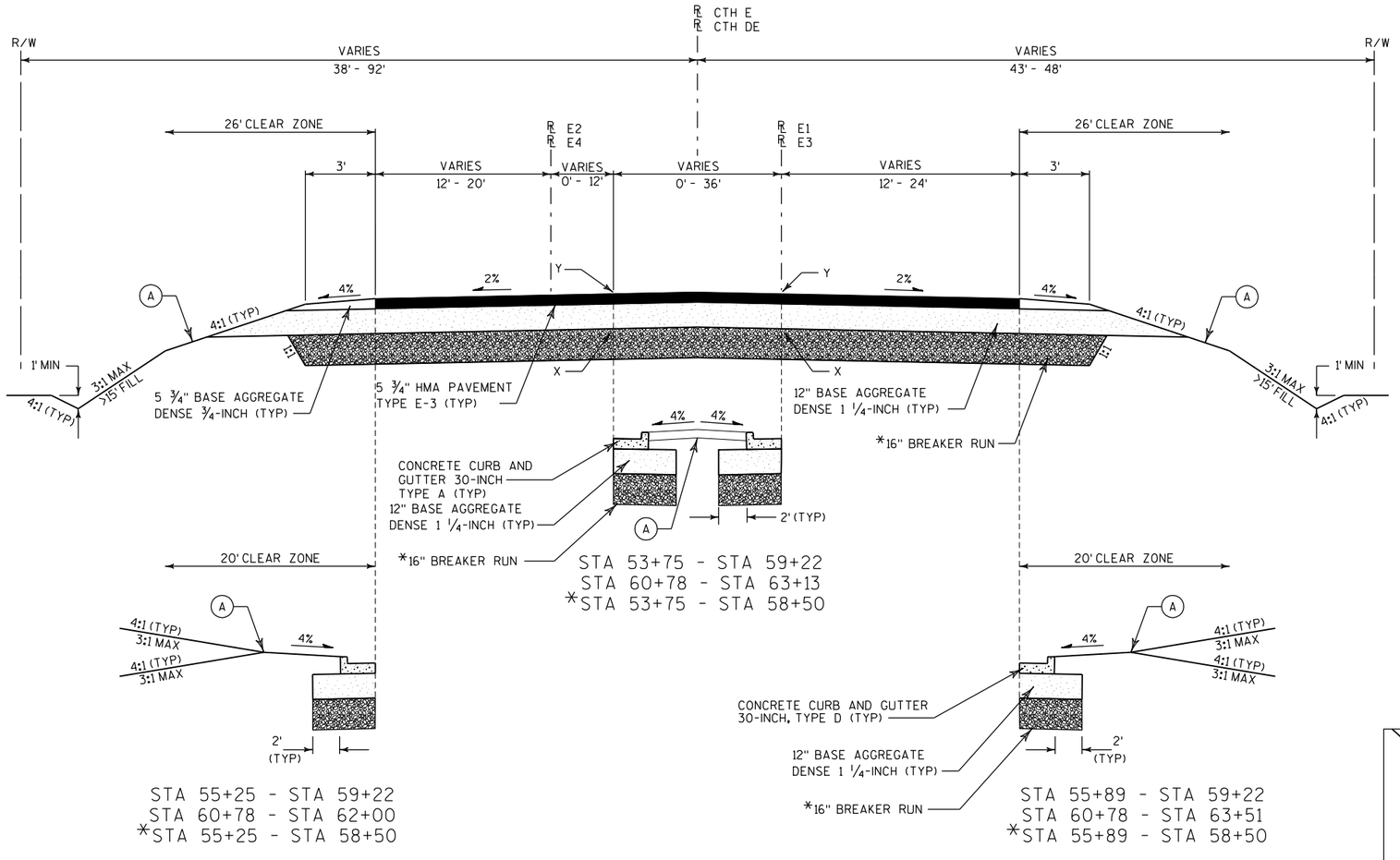


TYPICAL FINISHED SECTION - STH 83

STA. 1579+85 - STA. 1587+01.09 (℄)

STA. 1586+94.22 (NB ℄)

2



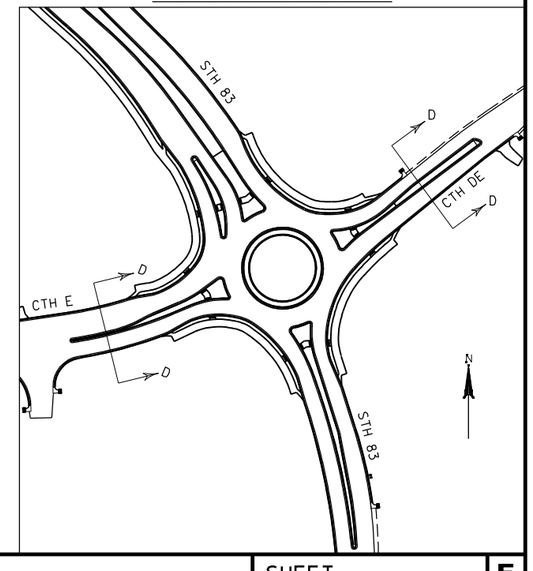
TYPICAL FINISHED SECTION - CTH E/DE

SECTION D-D
STA 53+75 - STA 66+00
*STA 53+75 - STA 58+50

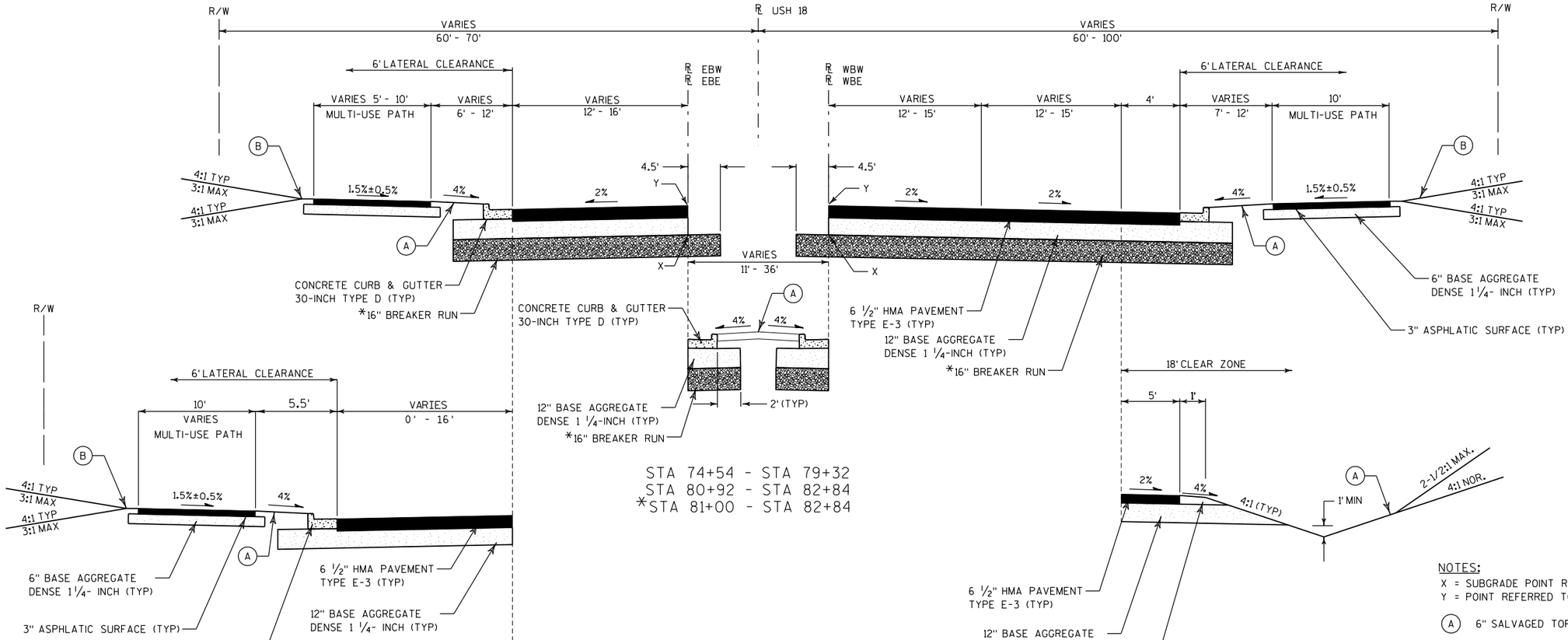
NOTES;
X = SUBGRADE POINT REFERRED TO ON CROSS SECTIONS
Y = POINT REFERRED TO ON PROFILE

(A) 6" SALVAGED TOPSOIL, FERTILIZER, SEED, EROSION MAT

SECTION LOCATION MAP



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET 21 E



TYPICAL FINISHED SECTION - USH 18

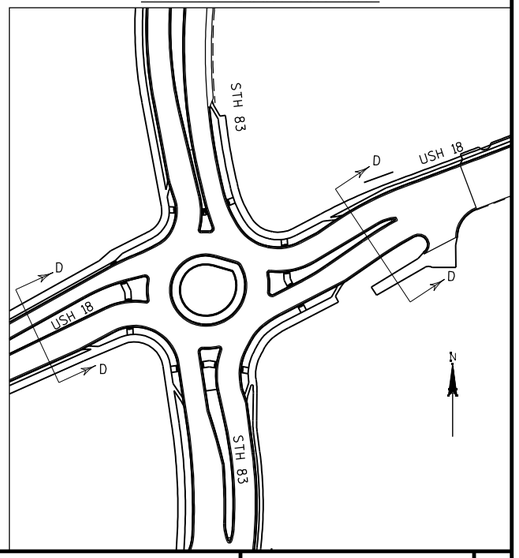
SECTION D-D
STA 75+15 - STA 87+00

NOTES:
X = SUBGRADE POINT REFERRED TO ON CROSS SECTIONS
Y = POINT REFERRED TO ON PROFILE

(A) 6" SALVAGED TOPSOIL, FERTILIZER, SEED, EROSION MAT

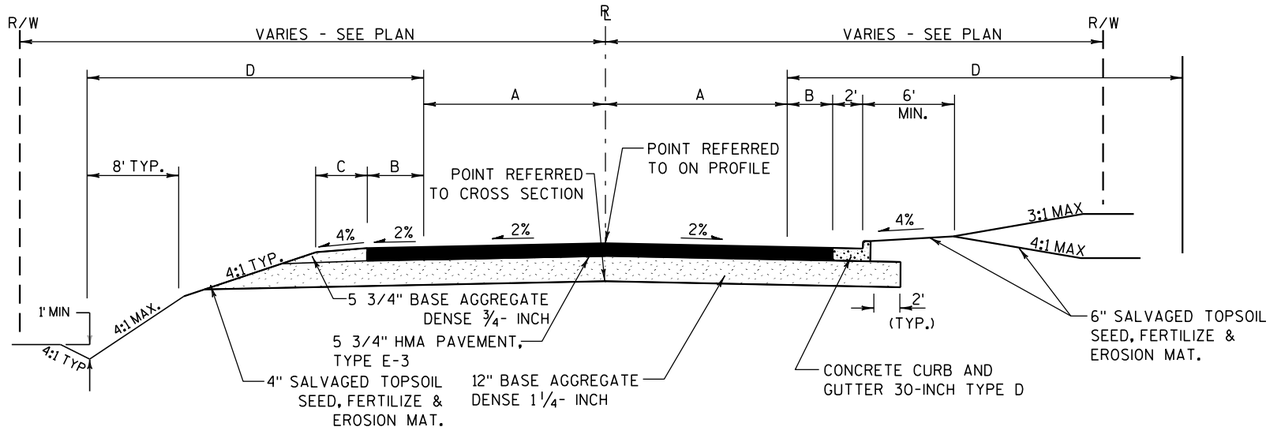
(B) 6" SALVAGED TOPSOIL, FERTILIZER, SEED, MULCH

SECTION LOCATION MAP



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL SECTIONS	SHEET E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_020302f_ts.dgn
PLOT DATE : 7/17/2013 3:01:33 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 201.2044 FT / IN.
WISDOT/CADDS SHEET 42

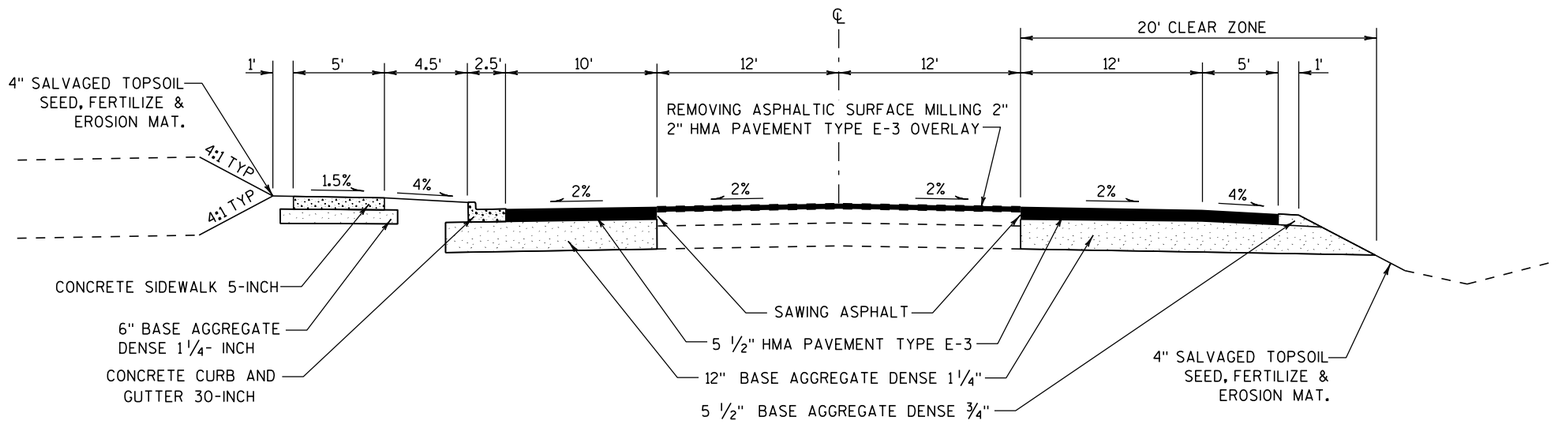


RURAL HALF-SECTION URBAN HALF-SECTION

TYPICAL FINISHED SECTION

SIDE ROADS

LOCATION	SECTION TYPE	DIMENSION A TRAVEL LANE FEET	DIMENSION B PAVED SHOULDER FEET	DIMENSION C AGG SHOULDER FEET	DIMENSION D CLEAR ZONE FEET
PERKINS RD	RURAL	12	0	3	14
LONDON DR	RURAL	12	0	3	14
HARVEST VIEW DR.	RURAL	12	0	3	14
PORTHAMEL CT	URBAN/RURAL	13	0	3	14
CTH G	URBAN/RURAL	12	0	3	14
BRANDYBROOK RD	URBAN/RURAL	12	0	3	14
WELSH RD (WEST)	URBAN/RURAL	12	0	3	14
WELSH RD (EAST)	URBAN/RURAL	14	0	3	14
BENTON CT.	URBAN	12	0	0	14
SOUTH ST	URBAN	12	0	0	14
CRIGLAS RD	URBAN/RURAL	12	0	3	14
MAIN ST (CTH G)	URBAN/RURAL	12	0	3	14
CYMRIC CT	URBAN/RURAL	15	0	3	14
HIGH MEADOW CIR	RURAL	15	0	3	14
HIGH MEADOW LN	RURAL	13	0	3	14
BOYS SCHOOL RD	RURAL	12	0	3	14
GLACIER PASS S	RURAL	15	0	3	14
GLACIER PASS N	RURAL	15	0	3	14



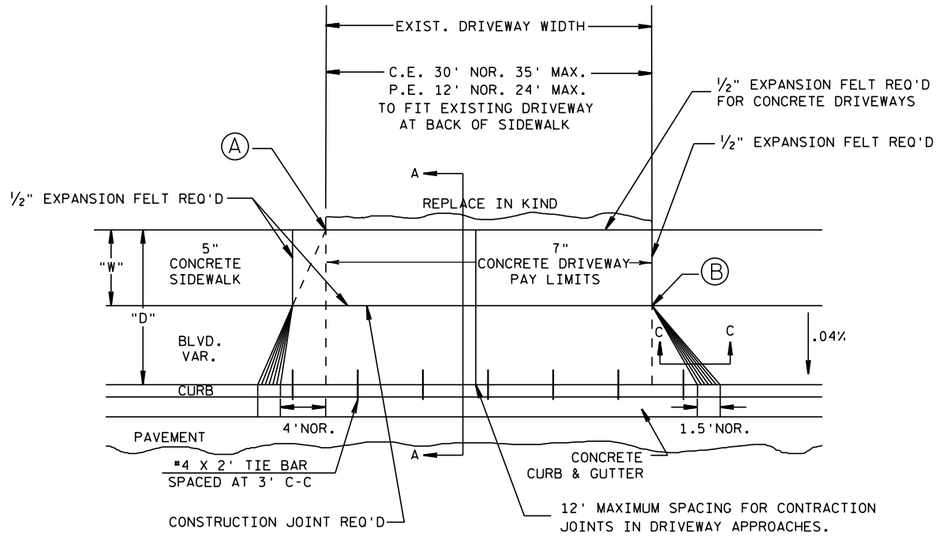
TYPICAL FINISHED SECTION

USH 18
STA 87+00 - STA 96+50

DESIGN NOTE (TO BE REMOVED FROM PLAN):

IF THE 8% DESIRABLE DRIVEWAY SLOPE CAN NOT BE CONSTRUCTED WITHIN THE R/W, A TEMPORARY LIMITED EASEMENT (TLE) MUST BE ACQUIRED PRIOR TO CONSTRUCTION. A SLOPE GREATER THAN 8% WILL BE ALLOWED IF THE PROPERTY OWNER IS UNWILLING TO GRANT A TLE OR IF THE PROPERTY OWNER AND MUNICIPALITY AGREE TO A SLOPE GREATER THAN 8%. ALL DRIVEWAYS GREATER THAN 8% SHALL BE PAVED TO A LOGICAL POINT.

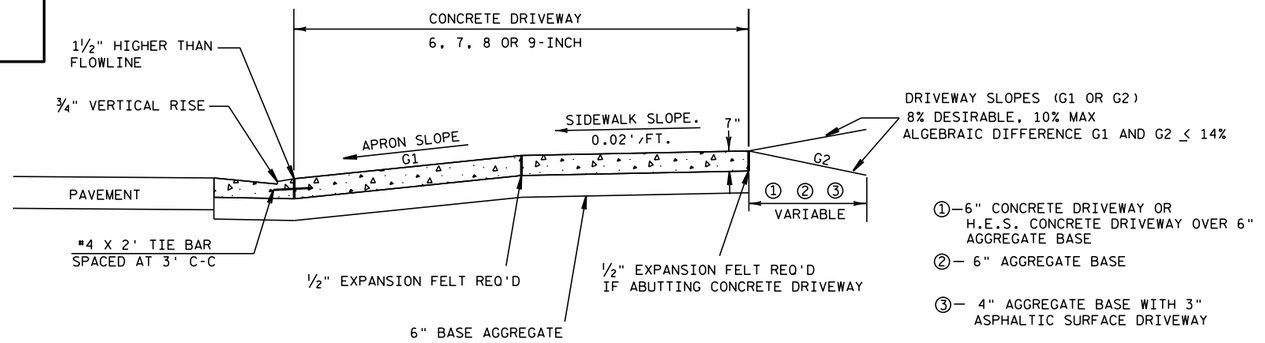
SIDEWALK CROSS SLOPES ARE TO BE 2% AS DIRECTED BY NEW ADA REGULATIONS.



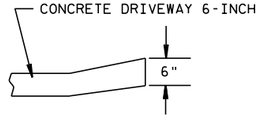
PLAN VIEW

Ⓐ WHEN "D" IS 13' OR LESS, ALIGN TAPER WITH BACK OF SIDEWALK

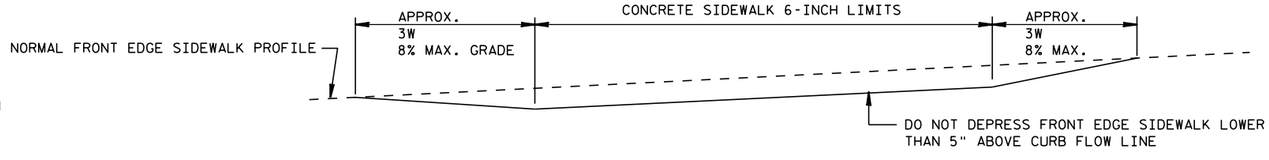
Ⓑ WHEN "D" IS GREATER THAN 13', ALIGN TAPER WITH FRONT OF SIDEWALK



SECTION A-A

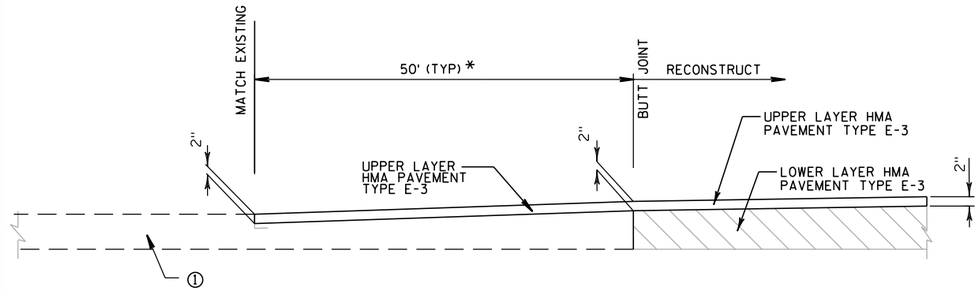


SECTION C-C



DEPRESSED SIDEWALK PROFILE DETAIL

DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK



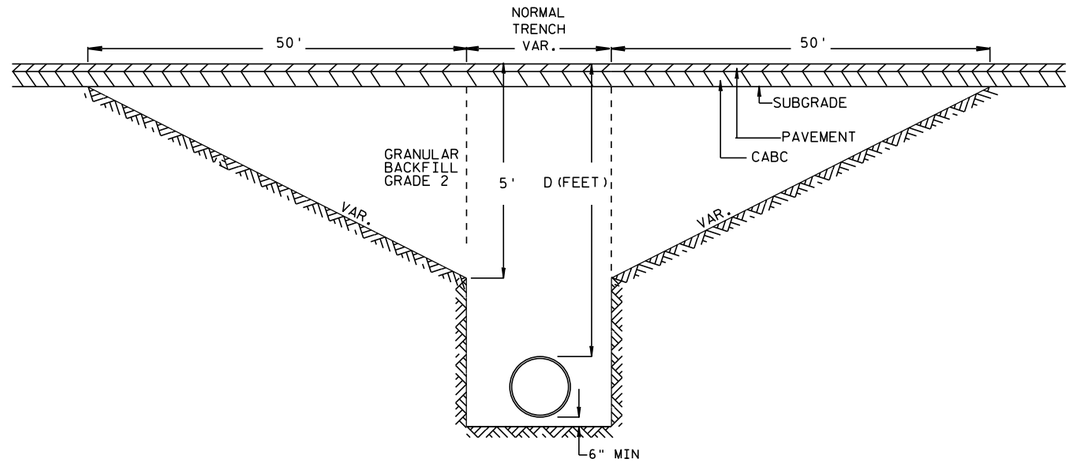
DETAIL OF ASPHALTIC SURFACE BUTT JOINT CTH G

STA. 46+00 - STA. 46+50

NOTE:

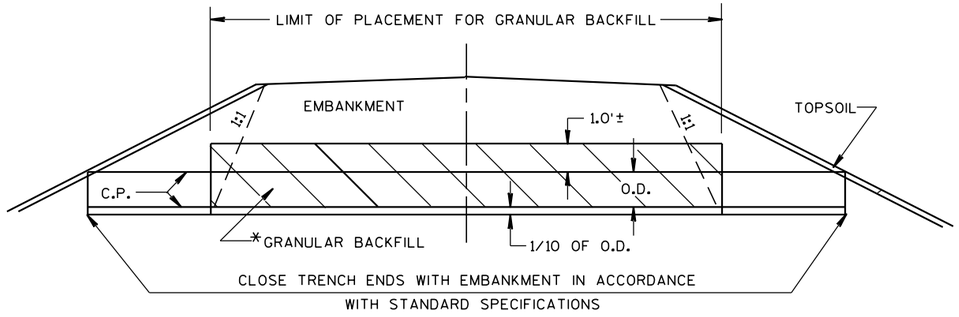
① EXISTING PAVEMENT TO REMAIN.

* EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD.



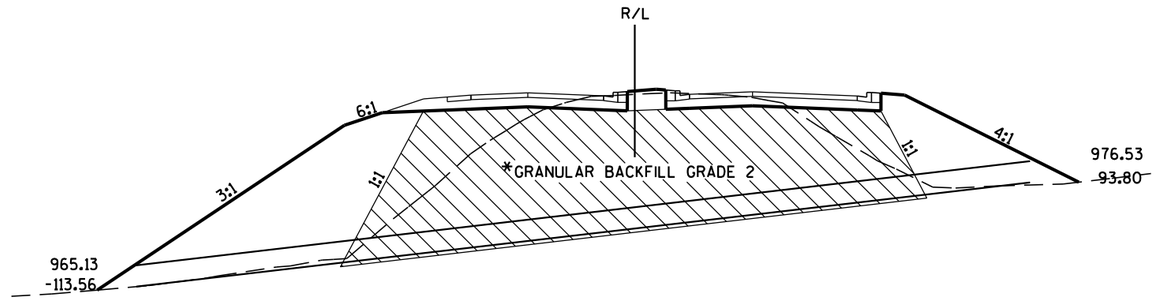
CROSS DRAIN INSTALLATION DETAIL D ≥ 5'

STA. 1569+00



CULVERT BACKFILL DETAIL

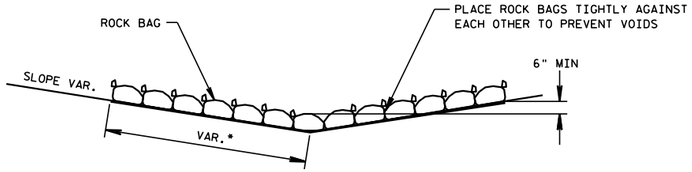
*GRANULAR BACKFILL INCIDENTAL TO CULVERT PIPE



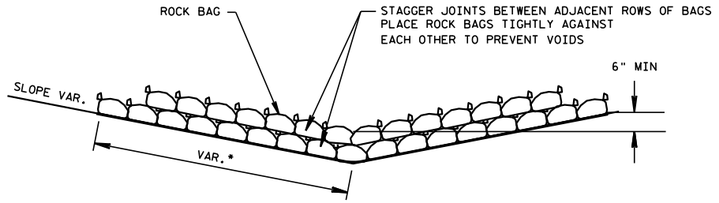
CROSS DRAIN INSTALLATION DETAIL

STA. 1569+00

*GRANULAR BACKFILL INCIDENTAL TO CULVERT PIPE



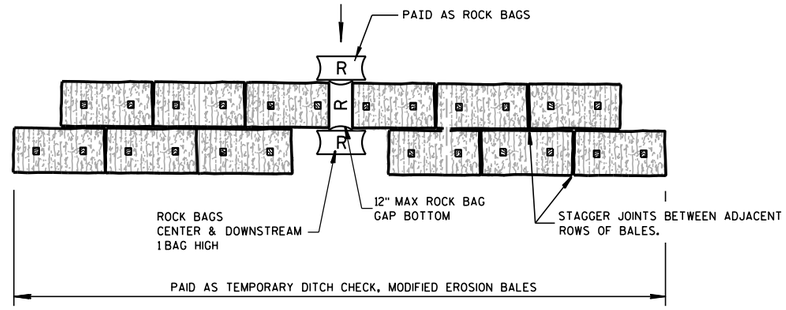
SIDE VIEW (SINGLE LAYER)



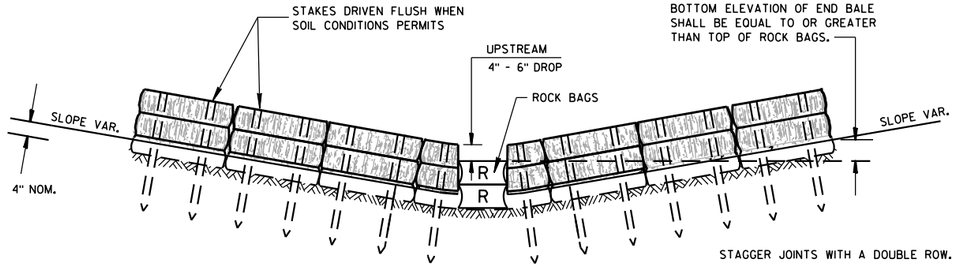
* LENGTH AND NUMBER OF BAGS MAY VARY DEPENDING ON DESIRED DEPTH OF WATER POOL

SIDE VIEW (MULTIPLE LAYER)

DITCH CHECKS



PLAN VIEW



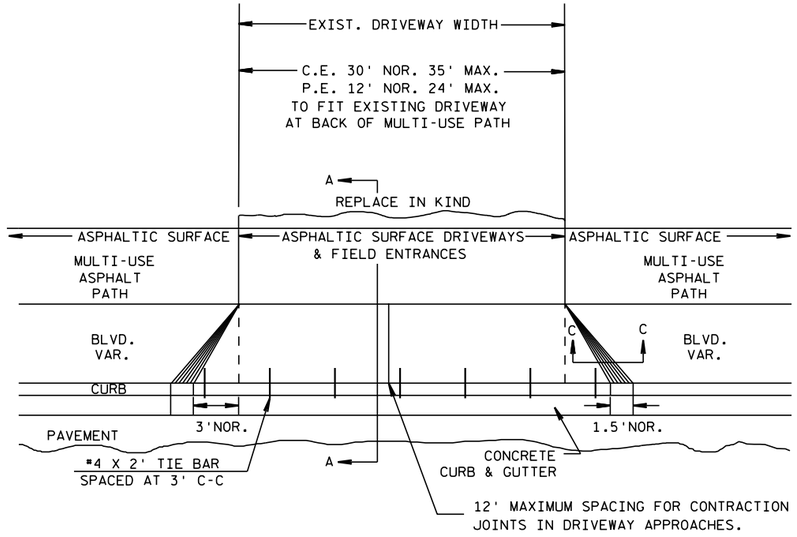
FRONT ELEVATION

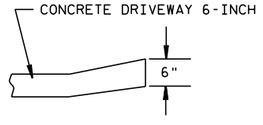
GENERAL NOTES

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.

TEMPORARY DITCH CHECK, MODIFIED EROSION BALES

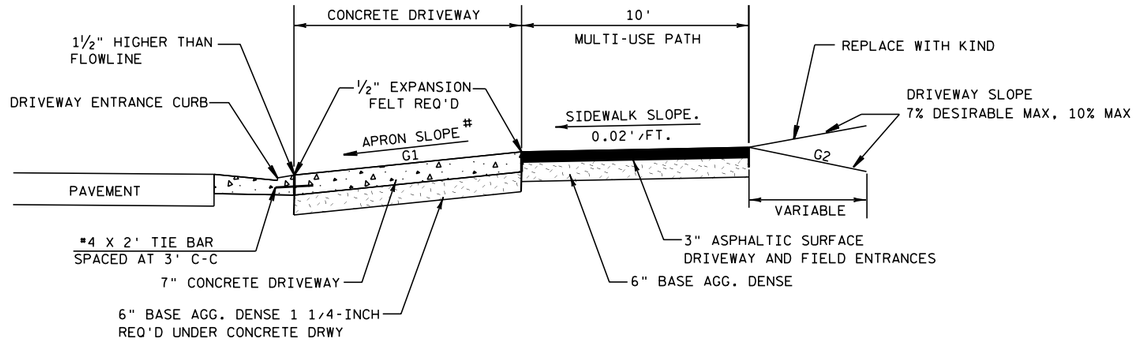
2





SECTION C-C

PLAN VIEW



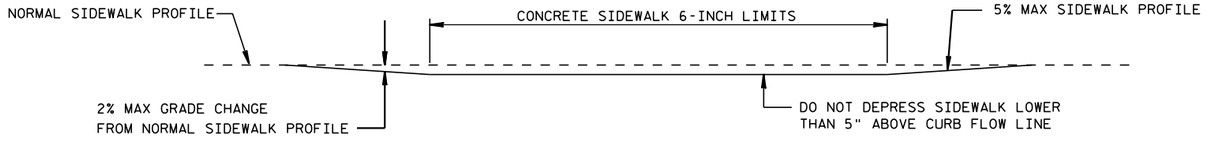
TERRACE WIDTH	APRON SLOPE (G1) MIN %	DESIRABLE %	MAX %
3 FT	7.0	8.5	9.0
4 FT	5.0	7.0	9.0
5 FT	4.0	7.0	9.0
6 FT	4.0	7.0	9.0
7 FT	3.5	7.0	9.0
8 FT	3.0	7.0	9.0

NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

DEPRESS PATH PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE

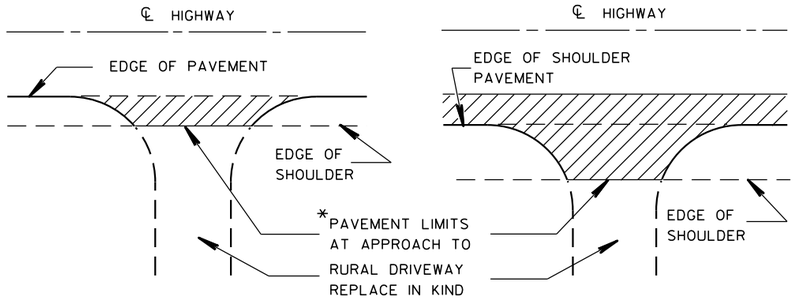
TYPICAL MULTI-USE PATH SECTION

SECTION A-A



DEPRESSED MULTI-USE PATH PROFILE DETAIL

DRIVEWAY ENTRANCE DETAIL WITH MULTI-USE PATH

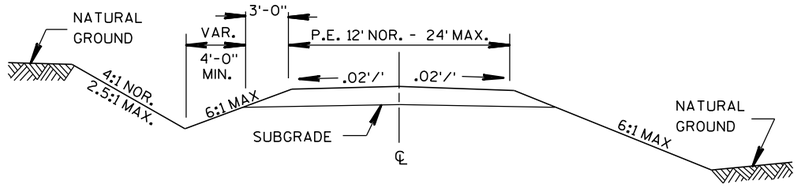


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

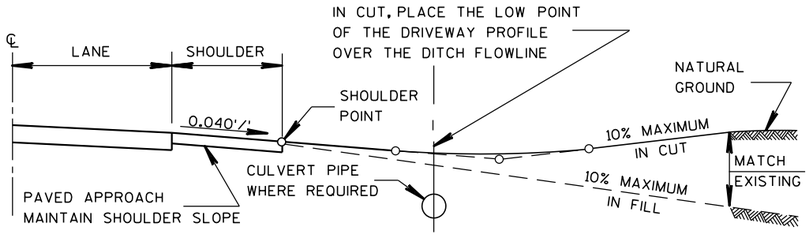
INTERSECTION DETAIL



IN CUT

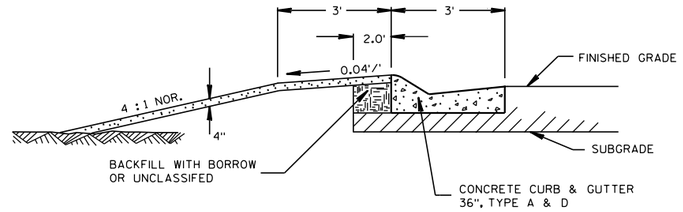
IN FILL

TYPICAL CROSS SECTION

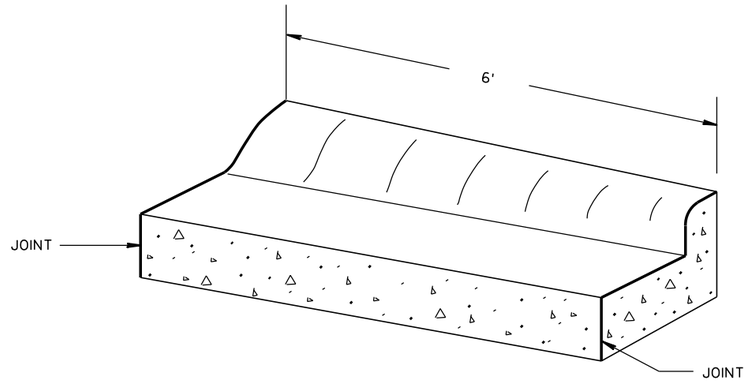


TYPICAL PROFILE

RURAL DRIVEWAY / FIELD ENTRANCE DETAIL



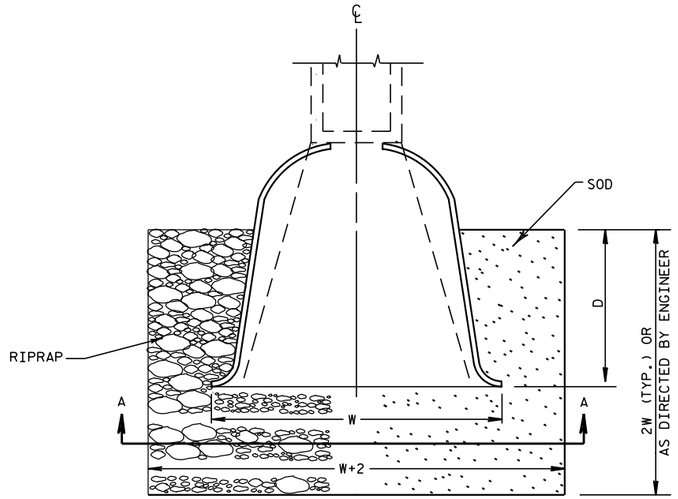
BERM DETAIL BEHIND 36" MOUNTABLE CURB & GUTTER



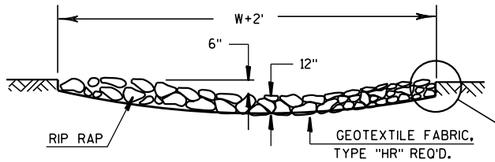
TRANSITION DETAIL

36" CURB & GUTTER TO 30" CURB & GUTTER
(TO BE MEASURED & PAID FOR AS 36" CONC. C&G)

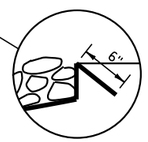
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CONSTRUCTION DETAILS	SHEET 28	E



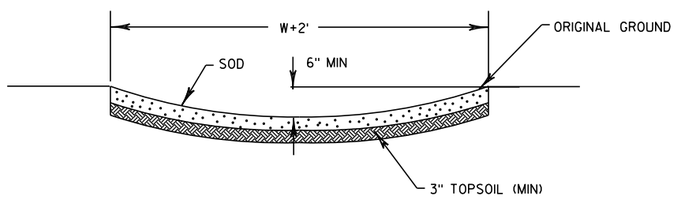
D= NOMINAL PIPE DIAMETER



RIPRAP TREATMENT
SECTION A-A

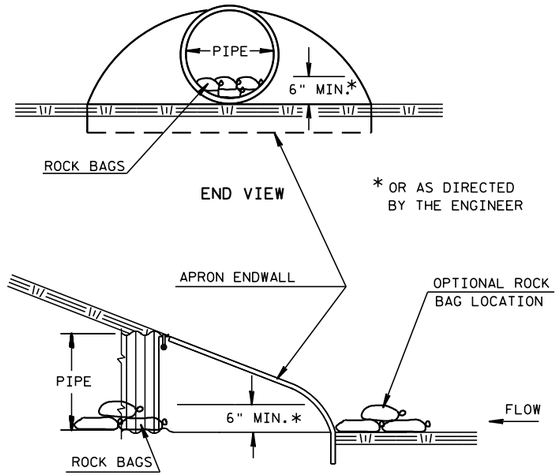


BURY EDGES OF FABRIC THROUGH
INTERCEPTING DITCHES



SOD TREATMENT
SECTION A-A

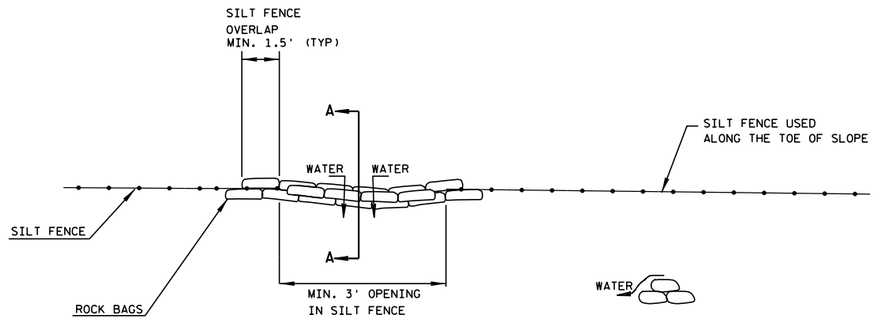
SOD OR RIPRAP AT OUTFALLS



SIDE VIEW

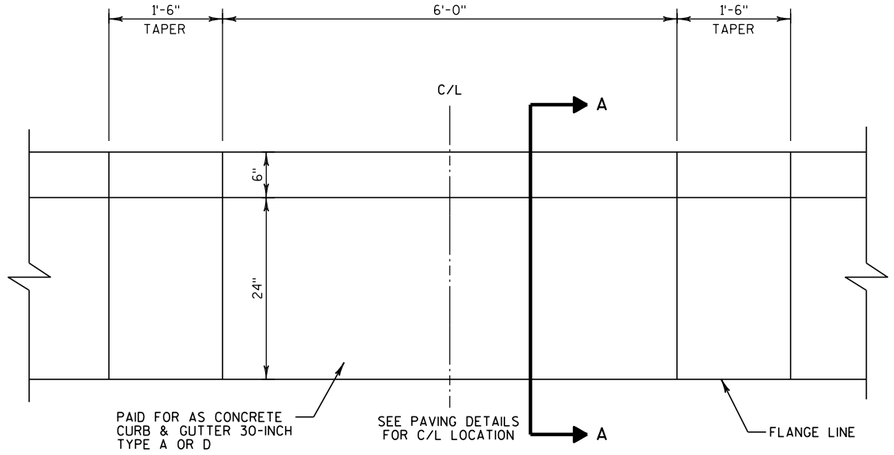
CULVERT PIPE DITCH CHECK

(INSTALL ON INLET END ONLY)

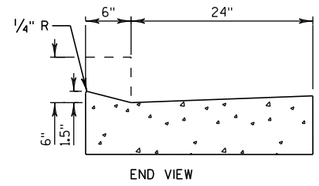


TOP VIEW

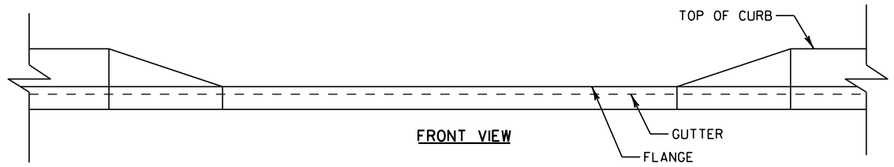
ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL



PLAN VIEW



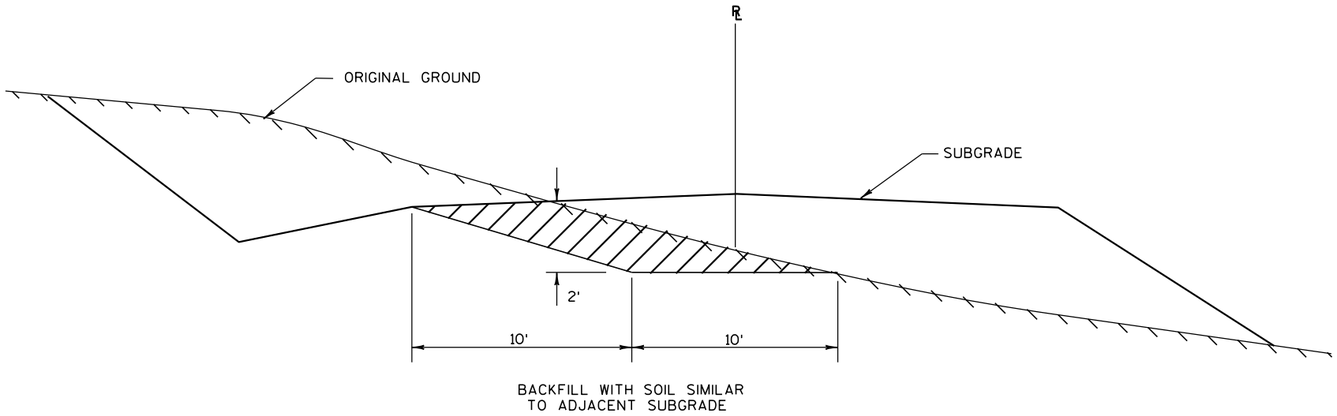
SECTION A-A



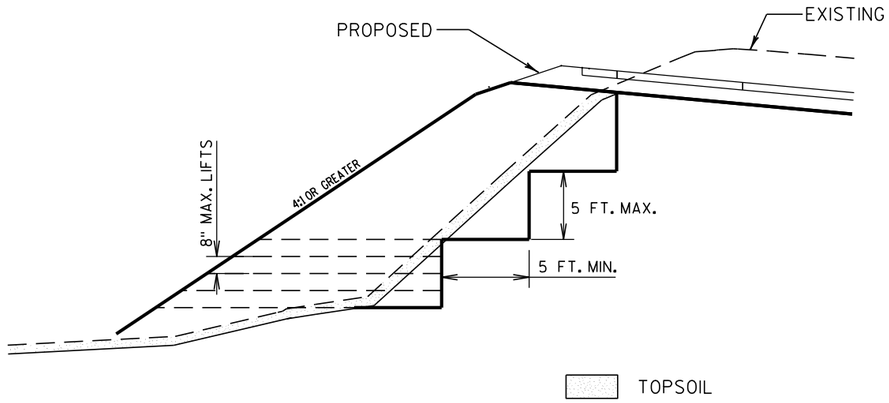
FRONT VIEW

MAINTENANCE OPENING

LOCATIONS SHOWN ON PLAN DETAILS

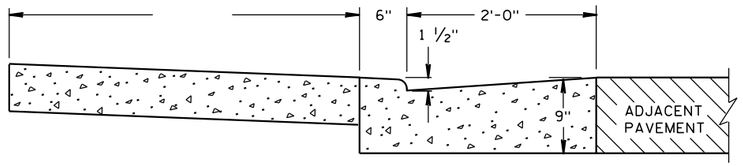


SIDE HILL CUT/FILL TRANSITION AREA

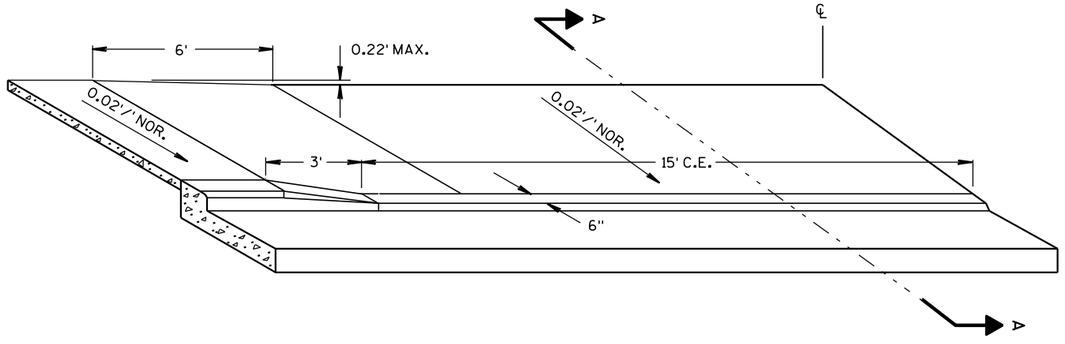


BENCH CONSTRUCTION

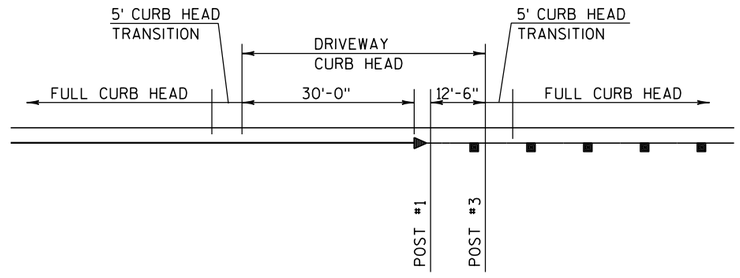
(APPLICABLE TO EXISTING SLOPES STEEPER THAN 3:1 AND HIGHER THAN 10 FEET.)



SECTION A-A



COMMERICAL ENTRANCE (HALF SECTION)

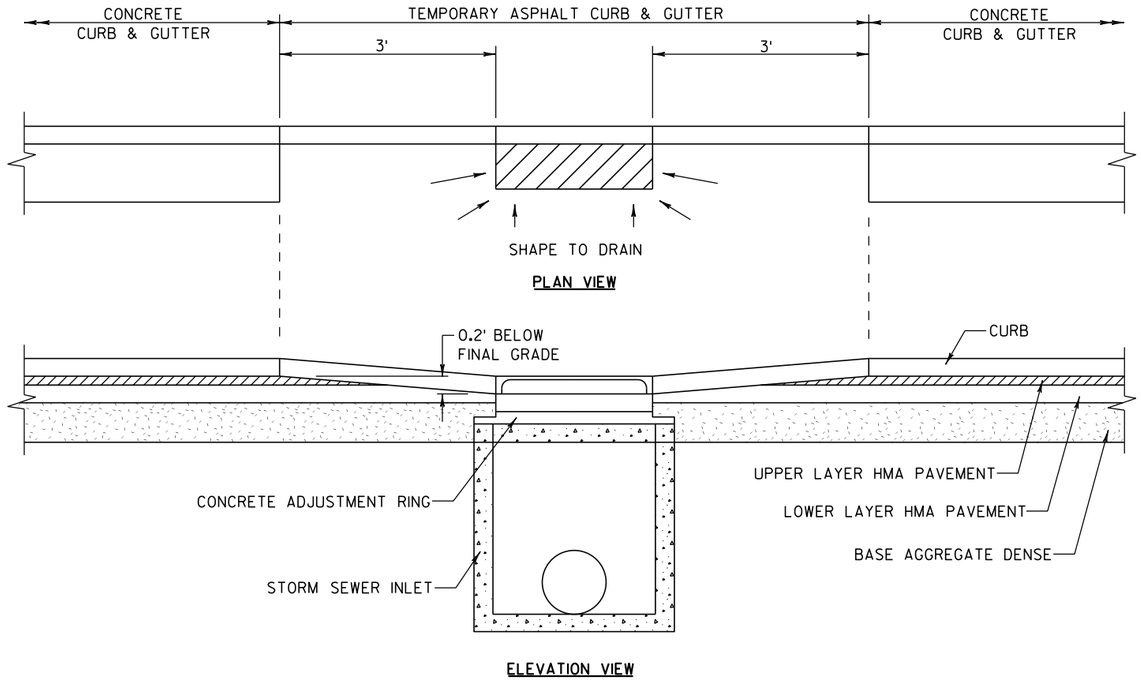


DRIVEWAY CURB HEAD AT GUARDRAIL

STA 1468+50, RT
STA 1481+75, RT
STA 1501+50, RT

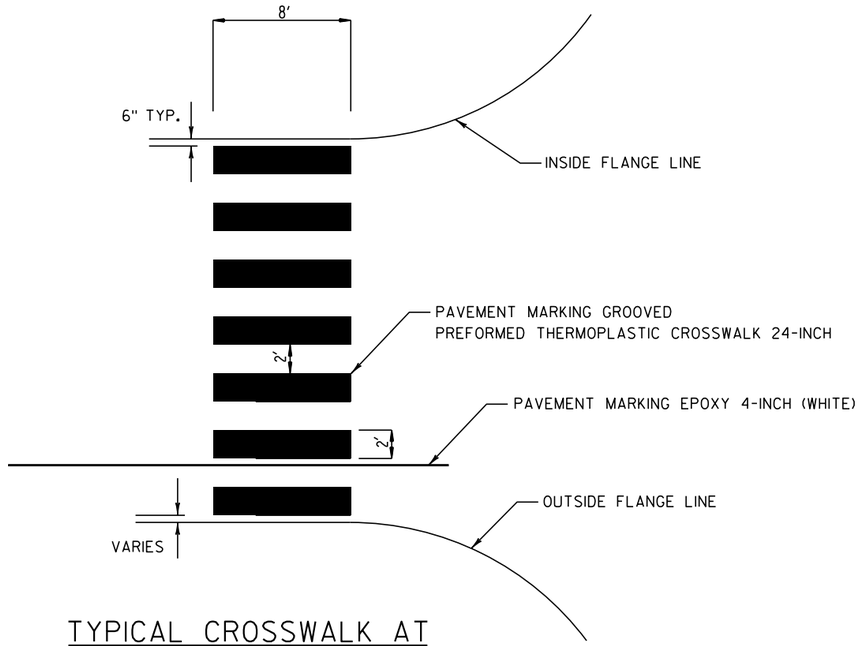
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CONSTRUCTION DETAILS	SHEET 31	E

2

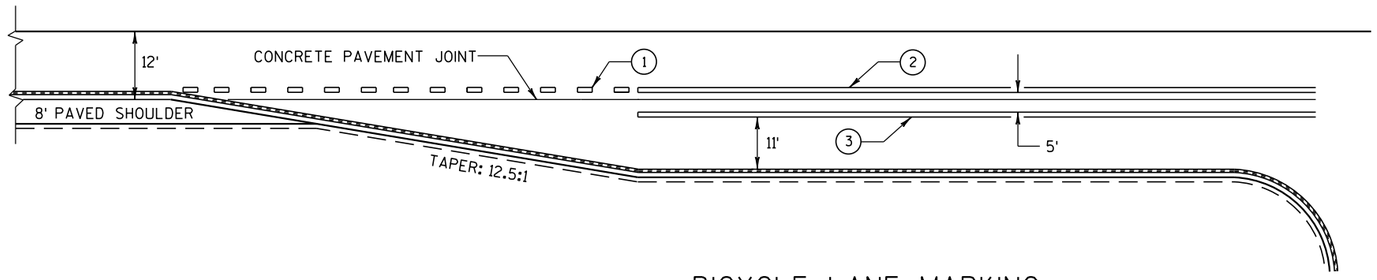


NOTE: ALL WORK ASSOCIATED WITH TEMPORARY ASPHALT CURB & GUTTER LOCATED AT INLETS IN PAVED AREAS WILL BE CONSIDERED INCIDENTAL TO PAVING ITEMS

2



TYPICAL CROSSWALK AT
NON-ROUNDABOUT INTERSECTIONS

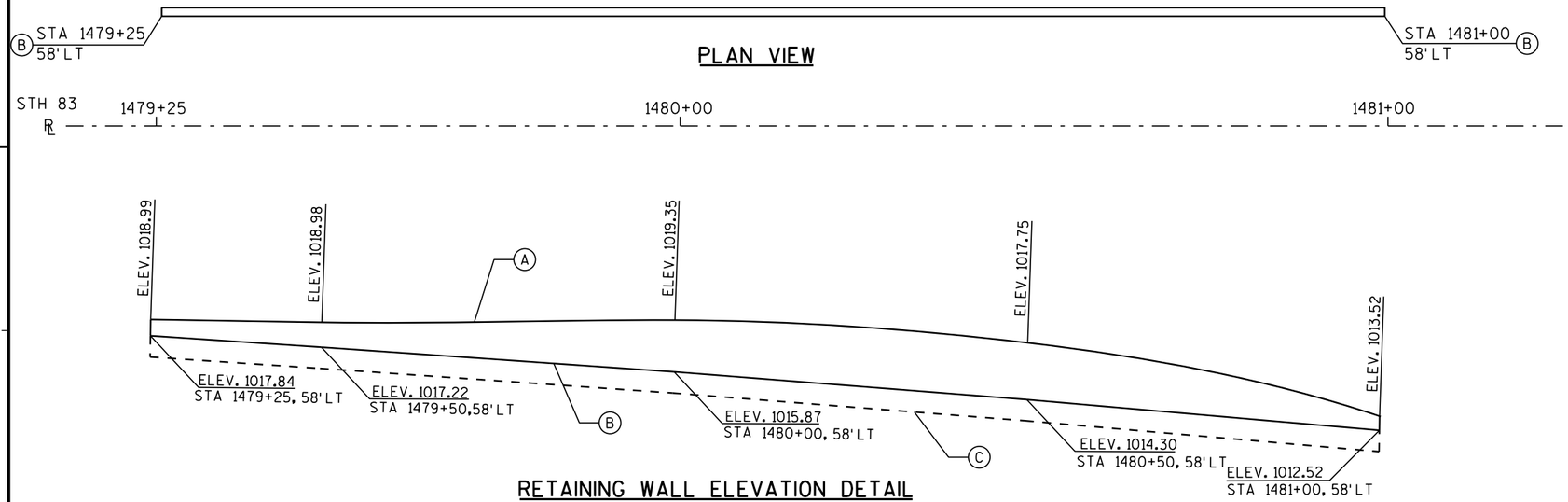


BICYCLE LANE MARKING

BIKE SLIP LANE ONLY WITHOUT SYMBOLS
FOR CONCRETE PAVEMENT

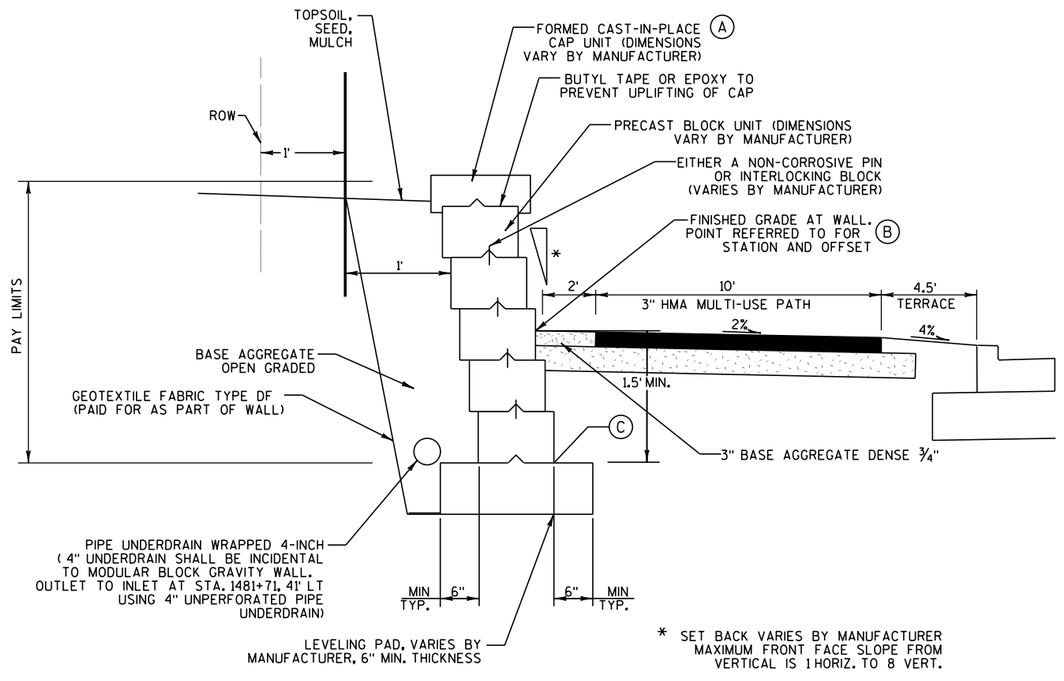
GENERAL NOTES

1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.



RETAINING WALL ELEVATION DETAIL

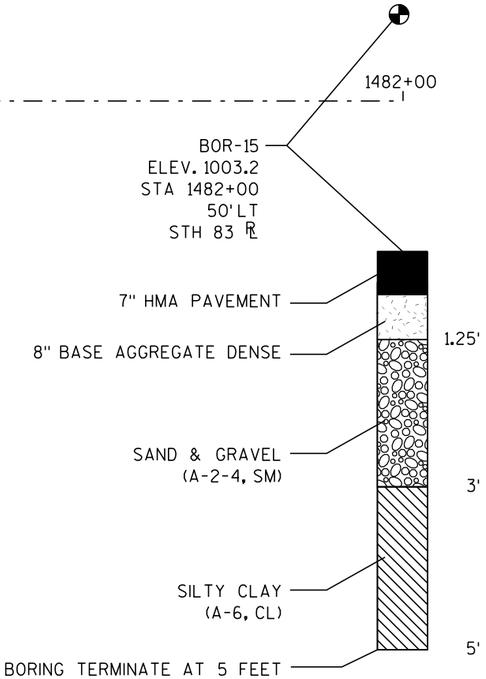
STA. 1479+50 TO STA. 1480+98, 58' LT



TYPICAL RETAINING WALL SECTION - REINFORCED

MODULAR CONCRETE UNIT
N.T.S.

STA. 1479+50 TO STA. 1480+98, 58' LT



NOTE:
THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM INSERT WALL SYSTEM OR SYSTEMS)".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

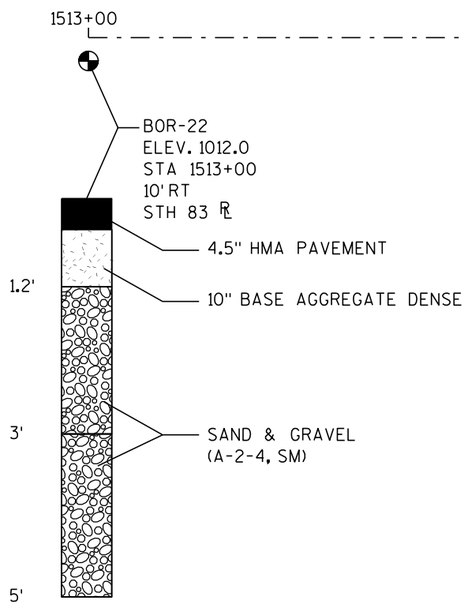
THE COLOR OF THE BLOCK SHALL BE ASHLAR STONE (FEDERAL STANDARD COLOR NO. 30140) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

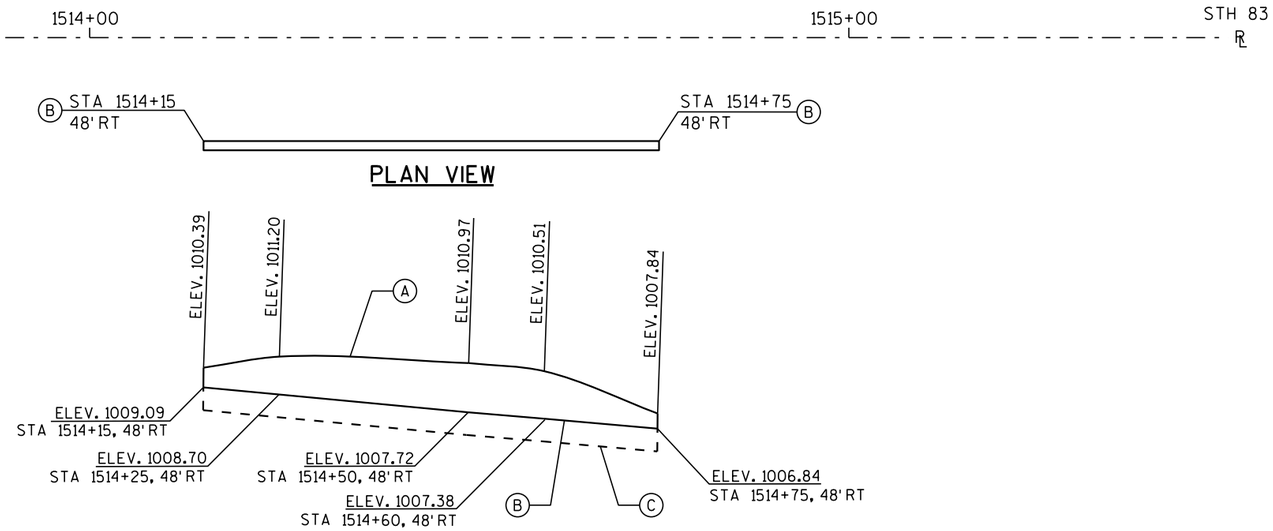
FORMED CAST-IN-PLACE CAP UNIT SHALL BE STAINED ON THE VERTICAL FACES. (FEDERAL STANDARD COLOR NO. 30227)

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF (INSERT VALUE).

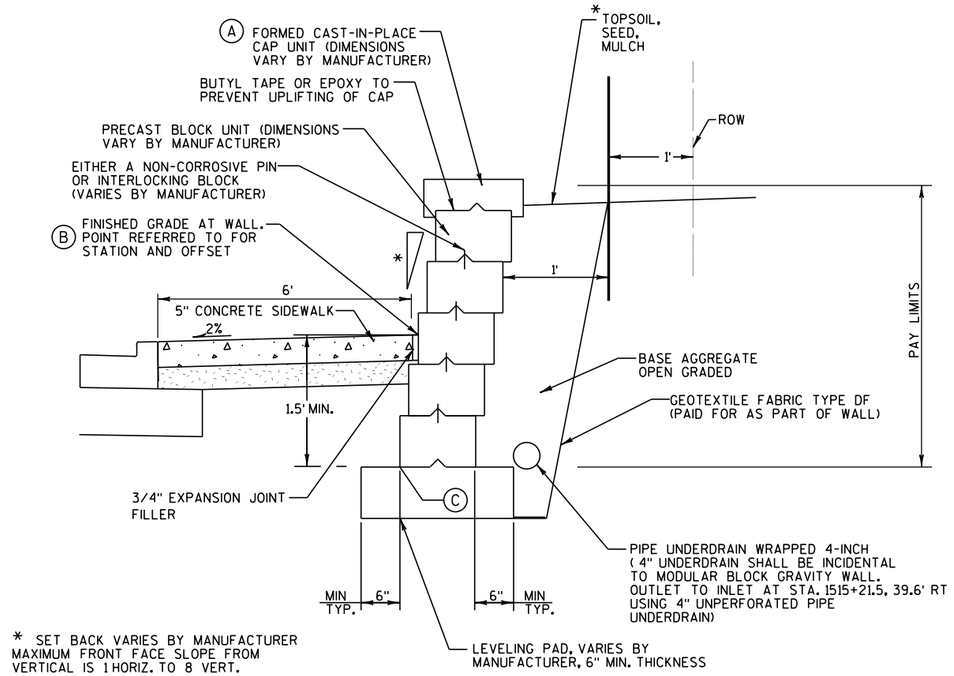
THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.





RETAINING WALL ELEVATION DETAIL

STA. 1514+15 TO STA. 1514+94.5, 47.5' RT



TYPICAL RETAINING WALL SECTION - REINFORCED

MODULAR CONCRETE UNIT
N.T.S.

STA. 1514+15 TO STA. 1514+94.5, 47.5' RT

NOTE:
THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM INSERT WALL SYSTEM OR SYSTEMS)".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

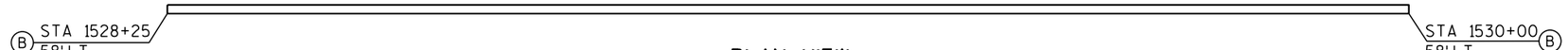
THE COLOR OF THE BLOCK SHALL BE ASHLAR STONE (FEDERAL STANDARD COLOR NO. 30140) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

FORMED CAST-IN-PLACE CAP UNIT SHALL BE STAINED ON THE VERTICAL FACES. (FEDERAL STANDARD COLOR NO. 30227)

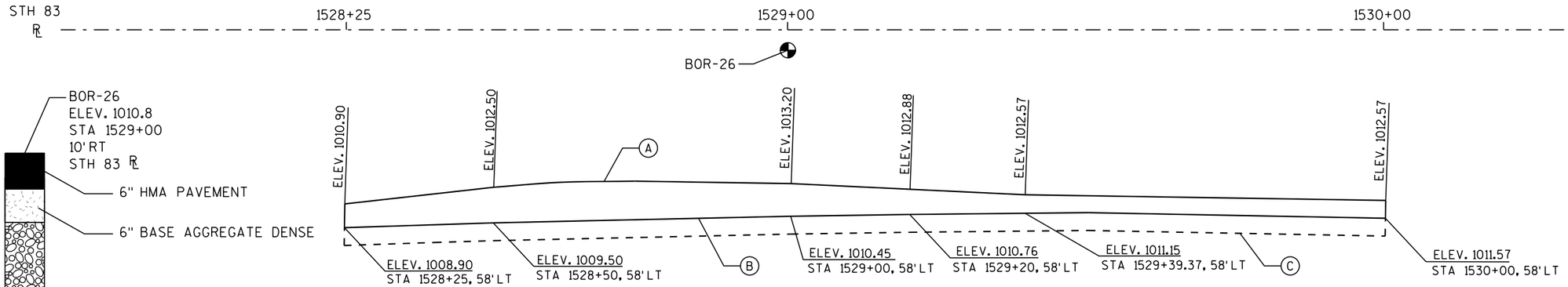
SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF (INSERT VALUE).

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

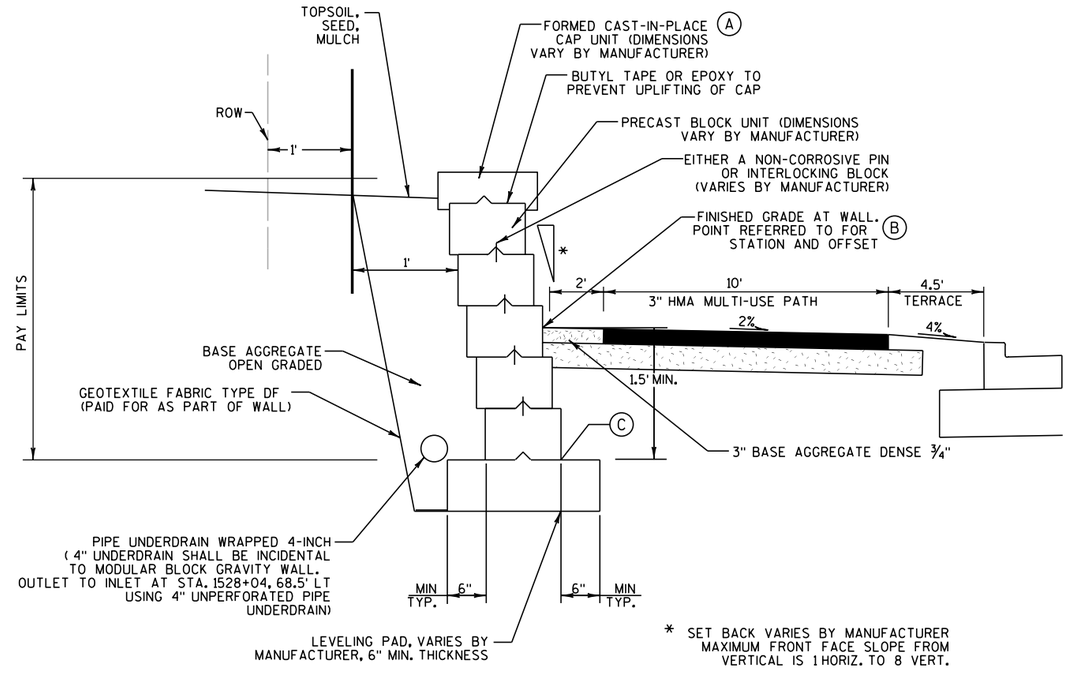


PLAN VIEW



RETAINING WALL ELEVATION DETAIL

STA. 1528+12 TO STA. 1529+85, 58' LT



TYPICAL RETAINING WALL SECTION - REINFORCED

MODULAR CONCRETE UNIT
N.T.S.

STA. 1528+12 TO STA. 1529+85, 58' LT

NOTE:
THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM INSERT WALL SYSTEM OR SYSTEMS)".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

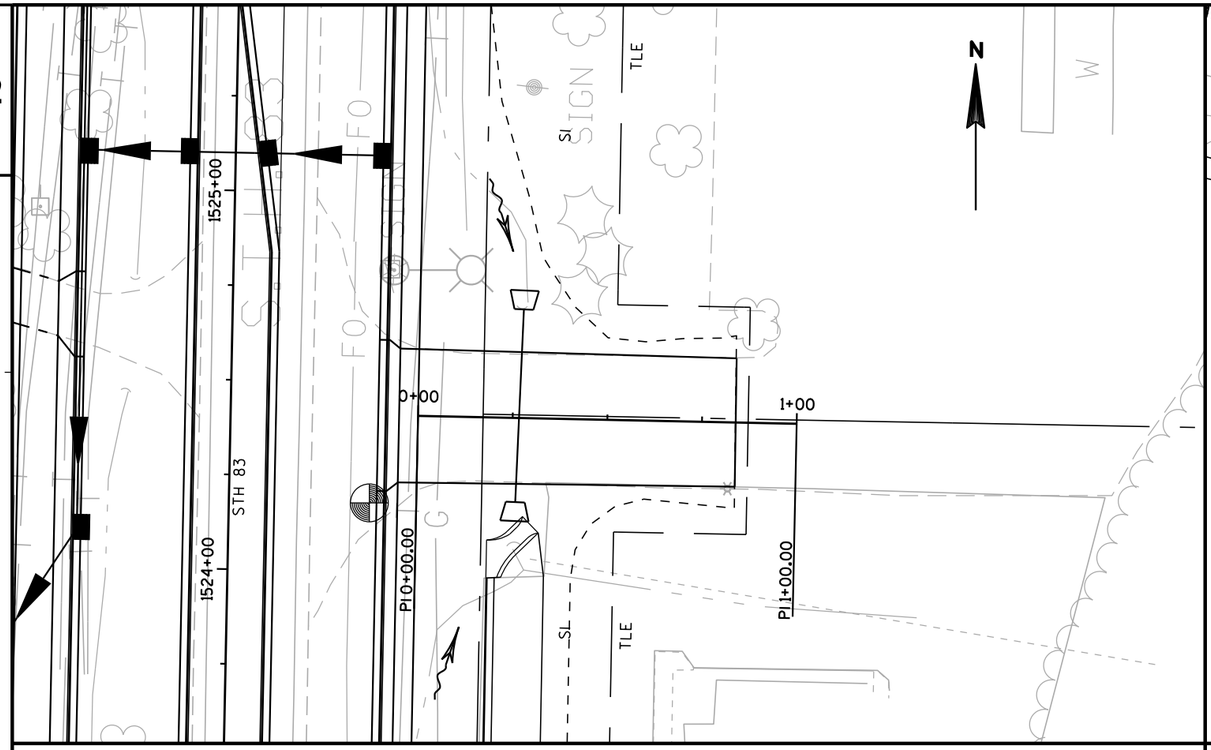
THE COLOR OF THE BLOCK SHALL BE ASHLAR STONE (FEDERAL STANDARD COLOR NO. 30140) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

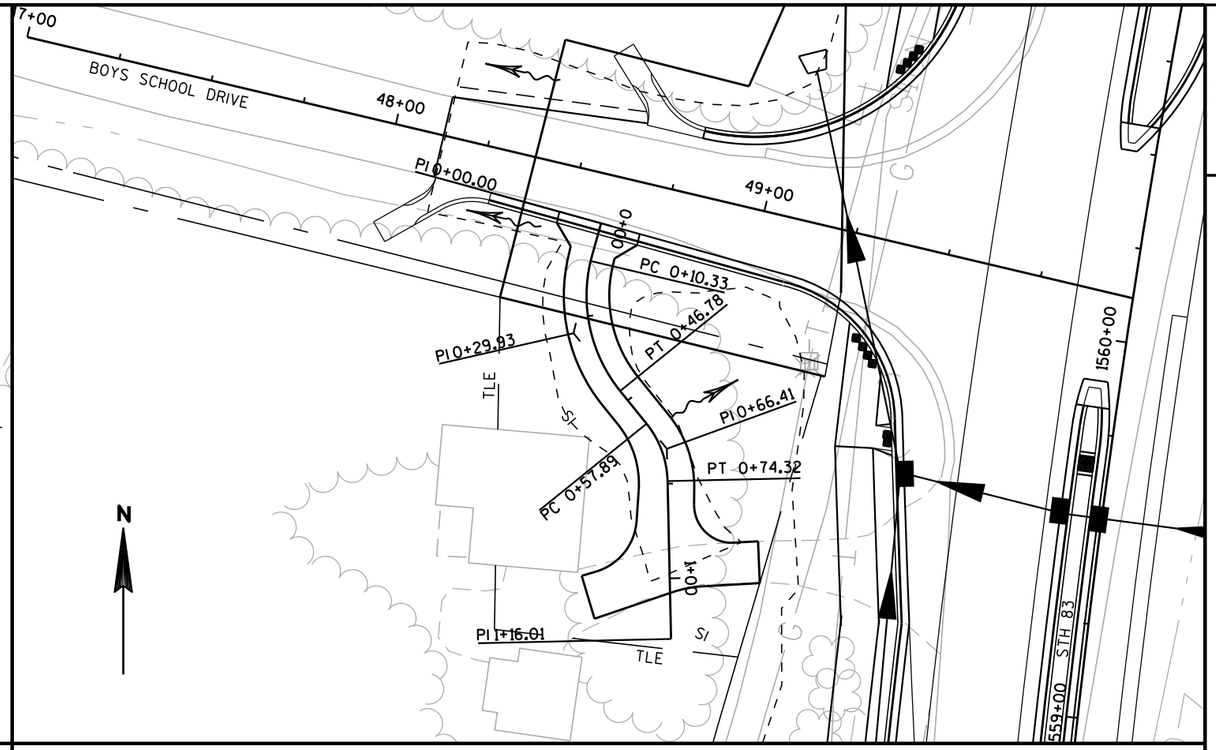
FORMED CAST-IN-PLACE CAP UNIT SHALL BE STAINED ON THE VERTICAL FACES. (FEDERAL STANDARD COLOR NO. 30227)

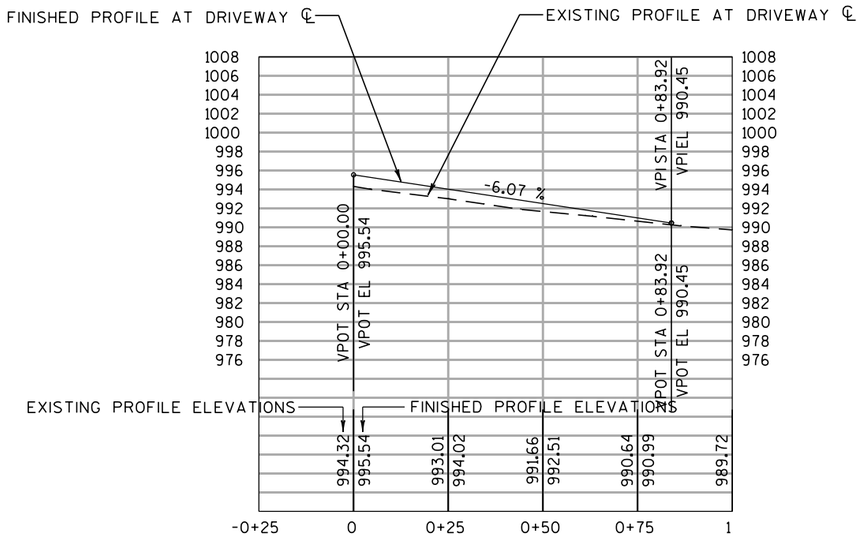
SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

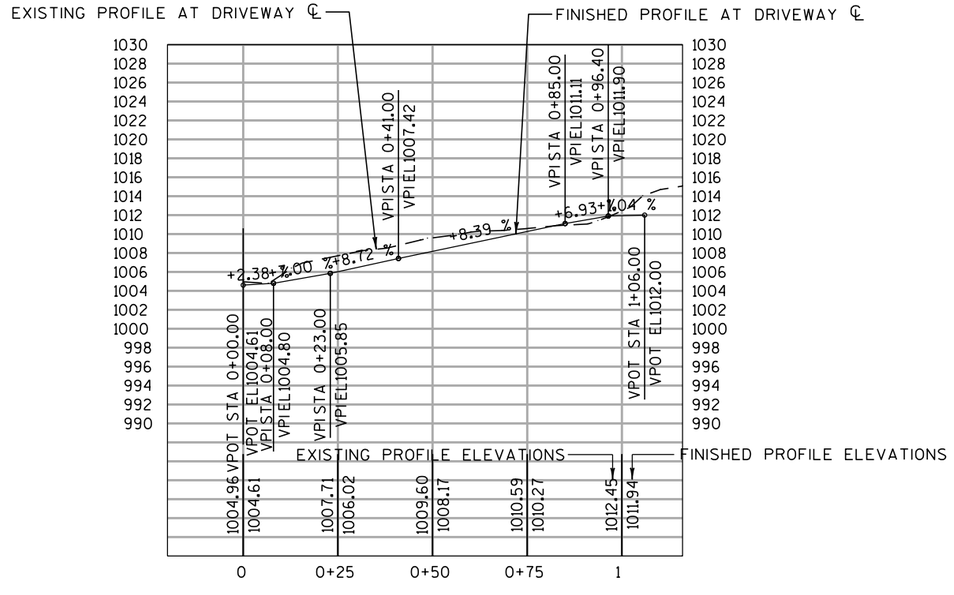
DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF (INSERT VALUE).

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.





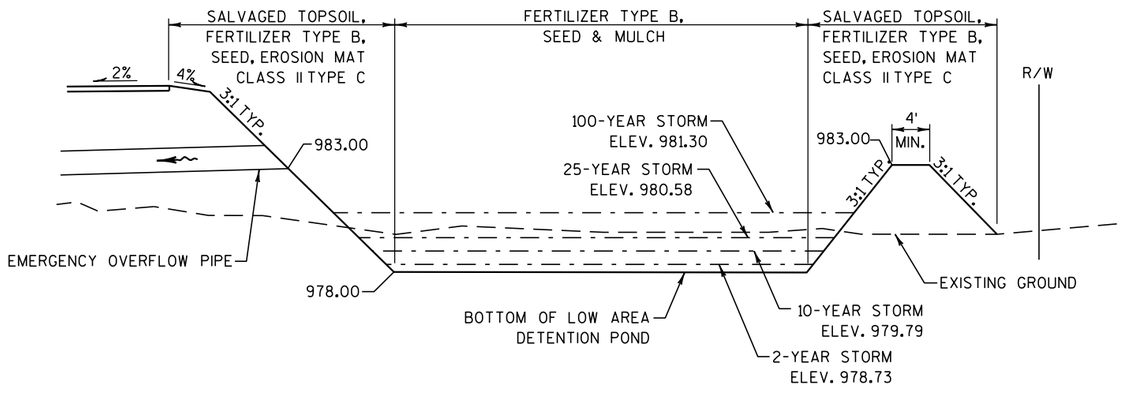




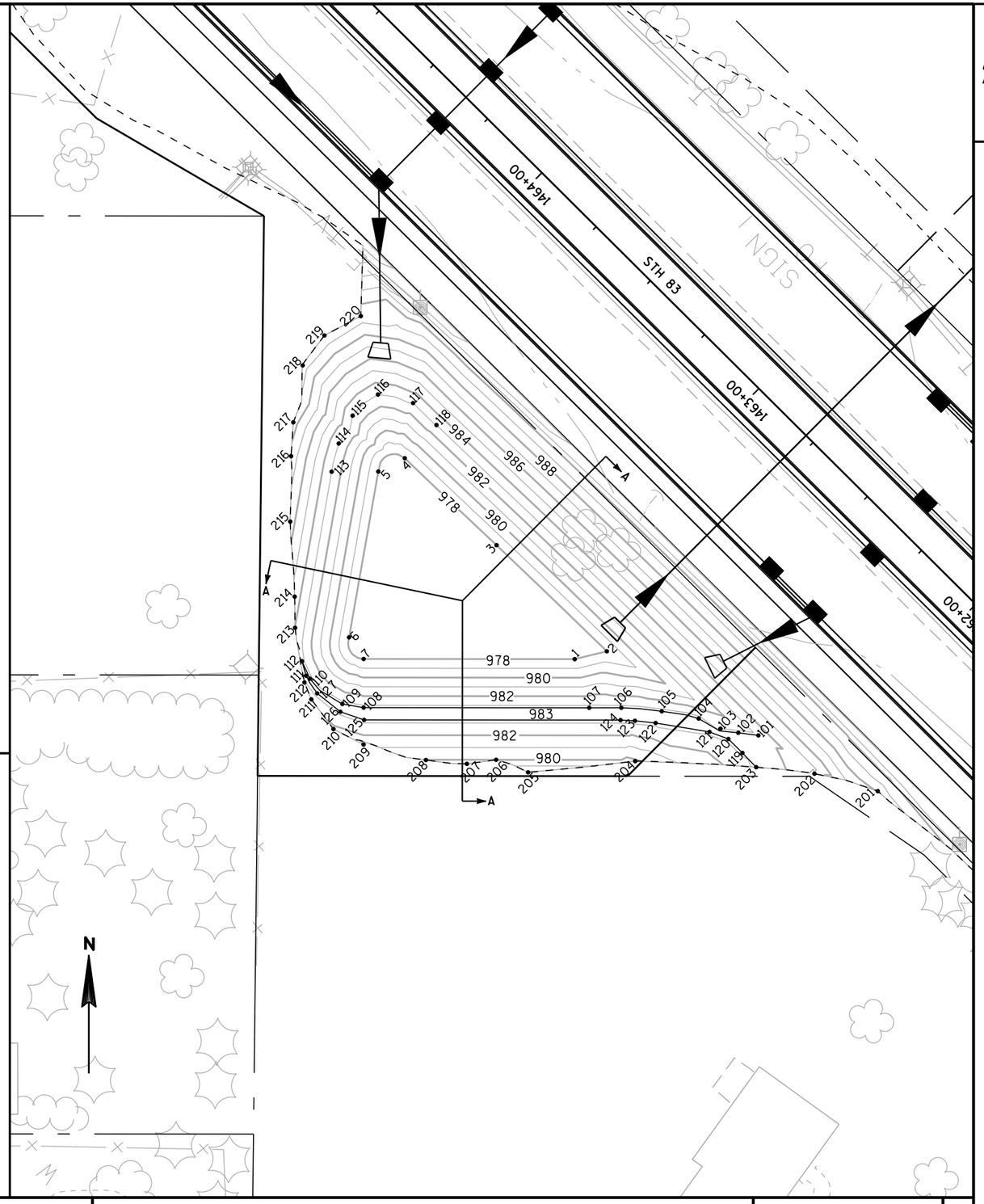
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CONSTRUCTION DETAILS	SHEET 37	E

NAME	NORTHING	EASTING	ELEVATION
1	153456.20	642797.23	978.00
2	153458.76	642807.73	978.00
3	153493.43	642771.68	978.00
4	153521.85	642741.69	978.00
5	153517.49	642733.02	978.00
6	153463.33	642723.47	978.00
7	153456.25	642728.23	978.00
101	153431.28	642857.26	983.25
102	153432.14	642850.69	983.25
103	153433.47	642844.86	983.25
104	153436.78	642837.74	983.25
105	153439.16	642825.67	983.25
106	153440.32	642812.46	983.25
107	153440.30	642801.97	983.25
108	153440.35	642728.21	983.25
109	153441.56	642721.27	983.25
110	153449.80	642710.69	983.25
111	153450.79	642709.43	983.25
112	153455.51	642708.08	983.25
113	153517.44	642717.78	983.25
114	153526.67	642720.10	983.25
115	153535.75	642724.63	983.25
116	153542.66	642732.90	983.25
117	153539.87	642744.40	983.25
118	153532.69	642752.04	983.25
119	153425.55	642852.04	983.25
120	153430.10	642847.46	983.25
121	153432.40	642841.28	983.25
122	153435.32	642823.66	983.25
123	153436.06	642816.90	983.25
124	153436.28	642812.18	983.25
125	153436.34	642728.38	983.25
126	153438.99	642720.64	983.25
127	153445.02	642713.06	983.25

NAME	NORTHING	EASTING	ELEVATION
201	153413.08	642896.27	EXISTING GROUND
202	153418.76	642875.58	EXISTING GROUND
203	153420.88	642856.54	EXISTING GROUND
204	153422.88	642816.99	EXISTING GROUND
205	153419.21	642781.99	EXISTING GROUND
206	153423.31	642771.53	EXISTING GROUND
207	153421.99	642761.99	EXISTING GROUND
208	153423.24	642748.58	EXISTING GROUND
209	153428.30	642728.21	EXISTING GROUND
210	153433.36	642718.36	EXISTING GROUND
211	153443.05	642711.14	EXISTING GROUND
212	153448.61	642708.88	EXISTING GROUND
213	153466.44	642705.83	EXISTING GROUND
214	153476.62	642705.69	EXISTING GROUND
215	153501.14	642704.25	EXISTING GROUND
216	153522.52	642704.52	EXISTING GROUND
217	153533.57	642705.24	EXISTING GROUND
218	153552.18	642708.33	EXISTING GROUND
219	153561.95	642715.41	EXISTING GROUND
220	153568.29	642727.30	EXISTING GROUND



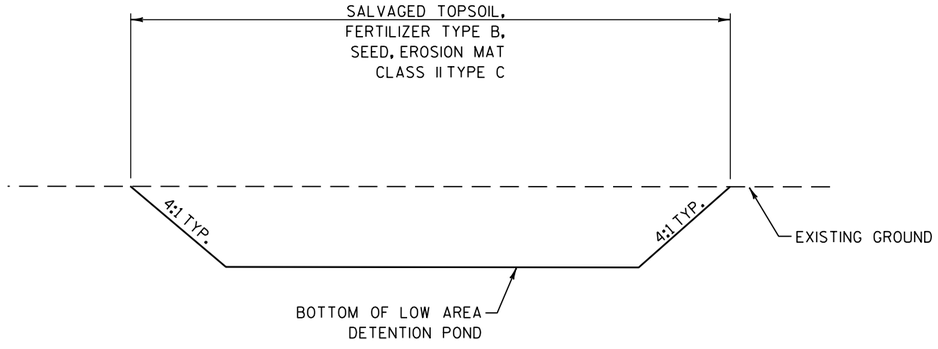
SECTION A-A



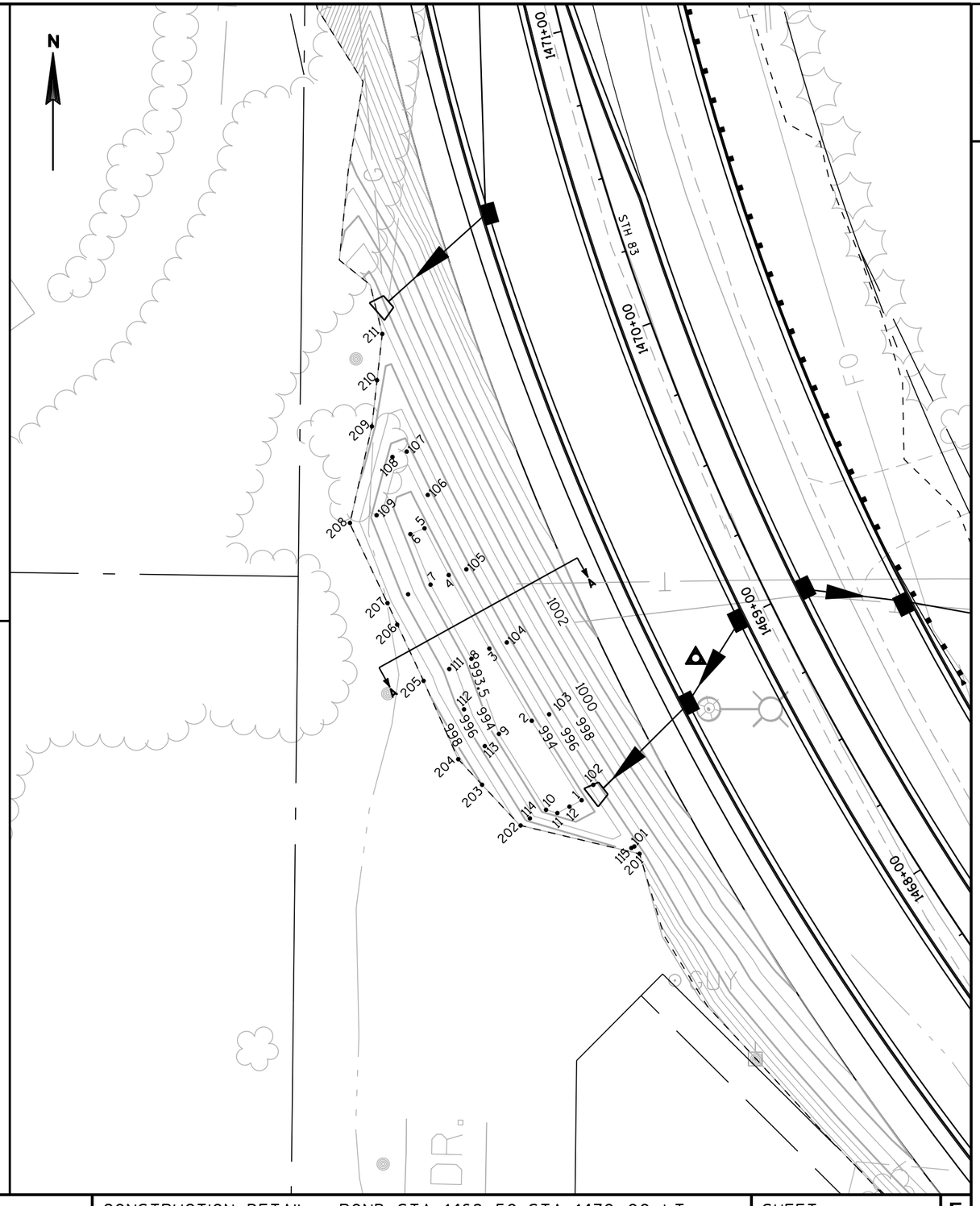
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CONSTRUCTION DETAIL - POND STA 1462+00-STA 1464+00, LT	SHEET 38	E

NUMBER	NORTHING	EASTING	ELEVATION
1	153934.84	642409.05	997.50
2	153960.85	642392.71	997.50
3	153984.51	642378.80	997.50
4	154008.59	642365.50	997.50
5	154023.90	642357.57	997.50
6	154022.01	642352.94	997.50
7	154005.45	642359.54	997.50
8	153981.18	642372.94	997.50
9	153956.57	642381.95	997.50
10	153931.72	642397.39	997.50
11	153930.64	642401.08	997.50
12	153932.74	642405.07	997.50
101	153919.70	642426.29	999.50
102	153939.89	642412.87	999.50
103	153962.98	642398.40	999.50
104	153986.52	642384.53	999.50
105	154010.48	642371.26	999.50
106	154034.84	642358.63	999.50
107	154049.04	642351.74	999.50
108	154047.28	642347.05	999.50
109	154028.18	642341.86	999.50
110	154002.30	642352.19	999.50
111	153977.83	642365.68	999.50
112	153964.62	642370.51	999.50
113	153952.58	642377.32	999.50
114	153928.92	642392.08	999.50
115	153919.20	642425.34	999.50

NUMBER	NORTHING	EASTING	ELEVATION
201	153917.30	642428.03	EXISTING GROUND
202	153926.57	642389.05	EXISTING GROUND
203	153939.92	642376.42	EXISTING GROUND
204	153948.28	642368.61	EXISTING GROUND
205	153973.95	642357.25	EXISTING GROUND
206	153992.36	642348.61	EXISTING GROUND
207	153999.41	642345.43	EXISTING GROUND
208	154025.66	642333.13	EXISTING GROUND
209	154057.29	642340.32	EXISTING GROUND
210	154072.39	642342.01	EXISTING GROUND
211	154087.57	642343.72	EXISTING GROUND

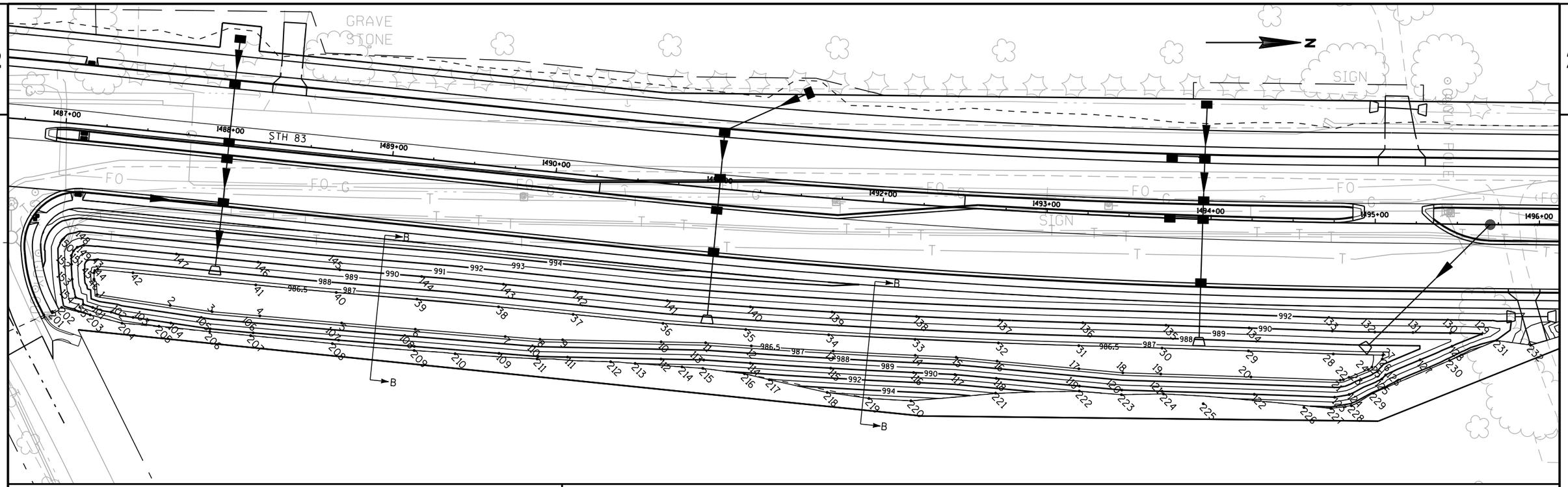


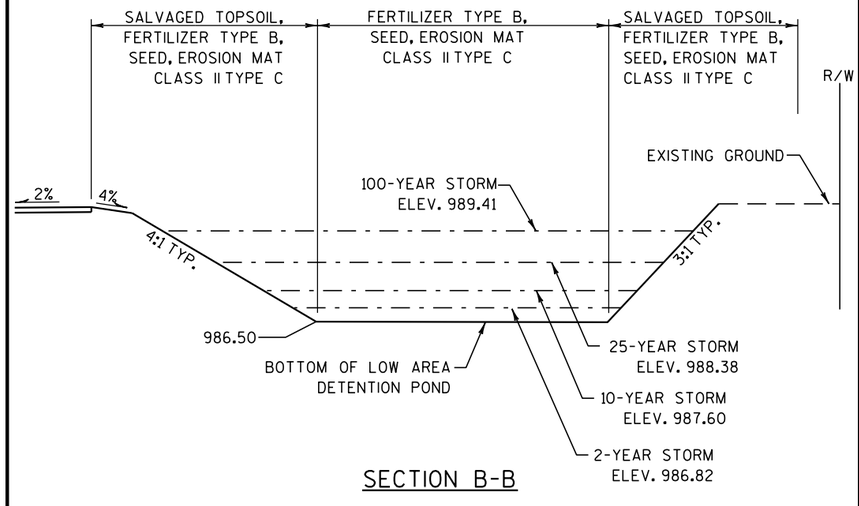
SECTION A-A



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CONSTRUCTION DETAIL - POND STA 1468+50-STA 1470+00, LT	SHEET	E

FILE NAME : J:\projects\d2_13301883\021003b_cd.dgn PLOT DATE : 30-JUL-2013 15:48 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42





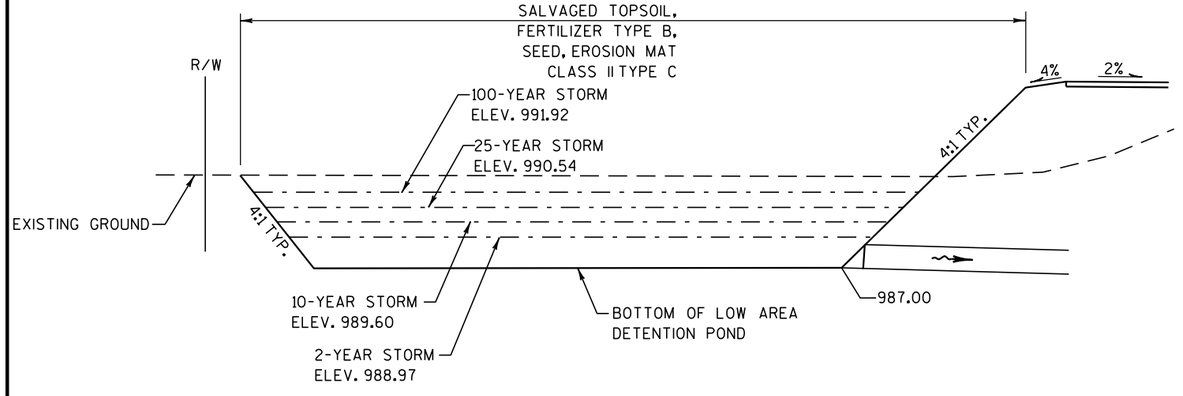
SECTION B-B

NUMBER	NORTHING	EASTING	ELEVATION
1	155802.94	642490.36	986.50
2	155847.45	642496.97	986.50
3	155873.00	642500.76	986.50
4	155902.06	642503.29	986.50
5	155951.87	642507.64	986.50
6	155996.71	642511.41	986.50
7	156051.53	642515.88	986.50
8	156072.66	642517.60	986.50
9	156086.46	642517.89	986.50
10	156146.44	642519.13	986.50
11	156173.57	642519.69	986.50
12	156201.38	642521.58	986.50
13	156251.28	642524.70	986.50
14	156301.21	642527.34	986.50
15	156326.14	642528.54	986.50
16	156351.07	642530.86	986.50
17	156400.85	642535.49	986.50
18	156427.65	642537.99	986.50
19	156450.73	642538.70	986.50
20	156505.70	642540.50	986.50
21	156560.08	642542.45	986.50
22	156561.92	642542.13	986.50
23	156565.37	642540.75	986.50
24	156577.18	642536.02	986.50
25	156579.39	642534.48	986.50
26	156585.64	642529.66	986.50
27	156586.03	642527.21	986.50
28	156555.81	642526.52	986.50
29	156504.16	642524.65	986.50
30	156451.53	642522.92	986.50
31	156400.83	642521.42	986.50
32	156351.88	642519.81	986.50
33	156301.11	642517.62	986.50
34	156248.53	642514.83	986.50
35	156198.00	642511.62	986.50
36	156147.60	642507.87	986.50
37	156092.84	642502.37	986.50
38	156047.45	642497.77	986.50
39	155997.75	642493.10	986.50
40	155948.60	642489.04	986.50
41	155899.60	642484.44	986.50
42	155824.75	642477.05	986.50
43	155803.24	642474.99	986.50
44	155801.51	642475.69	986.50
45	155801.03	642477.06	986.50
46	155801.06	642480.92	986.50
101	155800.25	642498.17	990.00
102	155811.51	642500.99	990.00
103	155824.87	642504.22	990.00
104	155847.85	642507.63	990.00
105	155871.76	642511.18	990.00
106	155897.98	642513.62	990.00
107	155950.02	642518.08	990.00
108	155996.16	642521.90	990.00
109	156047.69	642526.10	990.00
110	156071.60	642528.02	990.00
111	156089.46	642528.42	990.00
112	156146.38	642529.60	990.00
113	156172.41	642530.14	990.00
114	156200.78	642532.06	990.00
115	156249.75	642535.13	990.00
116	156300.20	642537.80	990.00
117	156325.35	642539.01	990.00
118	156350.54	642541.35	990.00
119	156401.20	642546.06	990.00
120	156426.97	642548.46	990.00
121	156451.51	642549.23	990.00
122	156507.70	642551.07	990.00
123	156556.64	642552.83	990.00
124	156565.48	642551.14	990.00
125	156585.40	642541.75	990.00
126	156587.70	642539.24	990.00
127	156608.65	642530.08	990.00
128	156628.14	642521.80	990.00
129	156646.24	642514.34	990.00
130	156627.07	642513.72	990.00
131	156604.35	642513.44	990.00
132	156581.10	642513.15	990.00
133	156555.19	642512.49	990.00
134	156504.56	642510.66	990.00
135	156453.94	642508.99	990.00
136	156403.30	642507.49	990.00
137	156352.65	642505.83	990.00
138	156302.02	642503.65	990.00
139	156250.55	642500.92	990.00
140	156200.79	642497.78	990.00
141	156150.21	642494.06	990.00
142	156094.26	642488.44	990.00
143	156050.42	642484.00	990.00
144	156000.64	642479.29	990.00
145	155950.80	642475.17	990.00
146	155901.02	642470.51	990.00
147	155851.26	642465.61	990.00
148	155794.73	642460.34	990.00
149	155790.84	642461.49	990.00
150	155788.54	642463.64	990.00
151	155787.24	642466.53	990.00
152	155787.34	642471.89	990.00
153	155787.74	642480.98	990.00
154	155789.80	642492.06	990.00
155	155794.47	642496.31	990.00
201	155775.63	642500.69	EXISTING GROUND
202	155781.35	642498.12	EXISTING GROUND
203	155798.70	642502.66	EXISTING GROUND
204	155818.05	642507.72	EXISTING GROUND
205	155840.61	642509.59	EXISTING GROUND
206	155871.55	642512.92	EXISTING GROUND
207	155896.44	642515.30	EXISTING GROUND
208	155946.21	642520.15	EXISTING GROUND
209	155996.04	642524.36	EXISTING GROUND
210	156020.97	642526.32	EXISTING GROUND
211	156070.90	642529.50	EXISTING GROUND
212	156115.70	642531.24	EXISTING GROUND
213	156130.61	642532.26	EXISTING GROUND
214	156159.12	642534.35	EXISTING GROUND
215	156171.85	642535.25	EXISTING GROUND
216	156197.21	642538.53	EXISTING GROUND
217	156212.29	642542.19	EXISTING GROUND
218	156247.59	642549.87	EXISTING GROUND
219	156272.98	642553.56	EXISTING GROUND
220	156298.54	642555.02	EXISTING GROUND
221	156350.13	642550.34	EXISTING GROUND
222	156401.10	642549.06	EXISTING GROUND
223	156426.78	642551.29	EXISTING GROUND
224	156452.36	642550.81	EXISTING GROUND
225	156476.61	642556.78	EXISTING GROUND
226	156537.95	642559.08	EXISTING GROUND
227	156554.36	642559.69	EXISTING GROUND
228	156566.79	642557.96	EXISTING GROUND
229	156580.05	642550.33	EXISTING GROUND
230	156626.63	642530.44	EXISTING GROUND
231	156655.35	642518.19	EXISTING GROUND
232	156675.92	642521.04	EXISTING GROUND

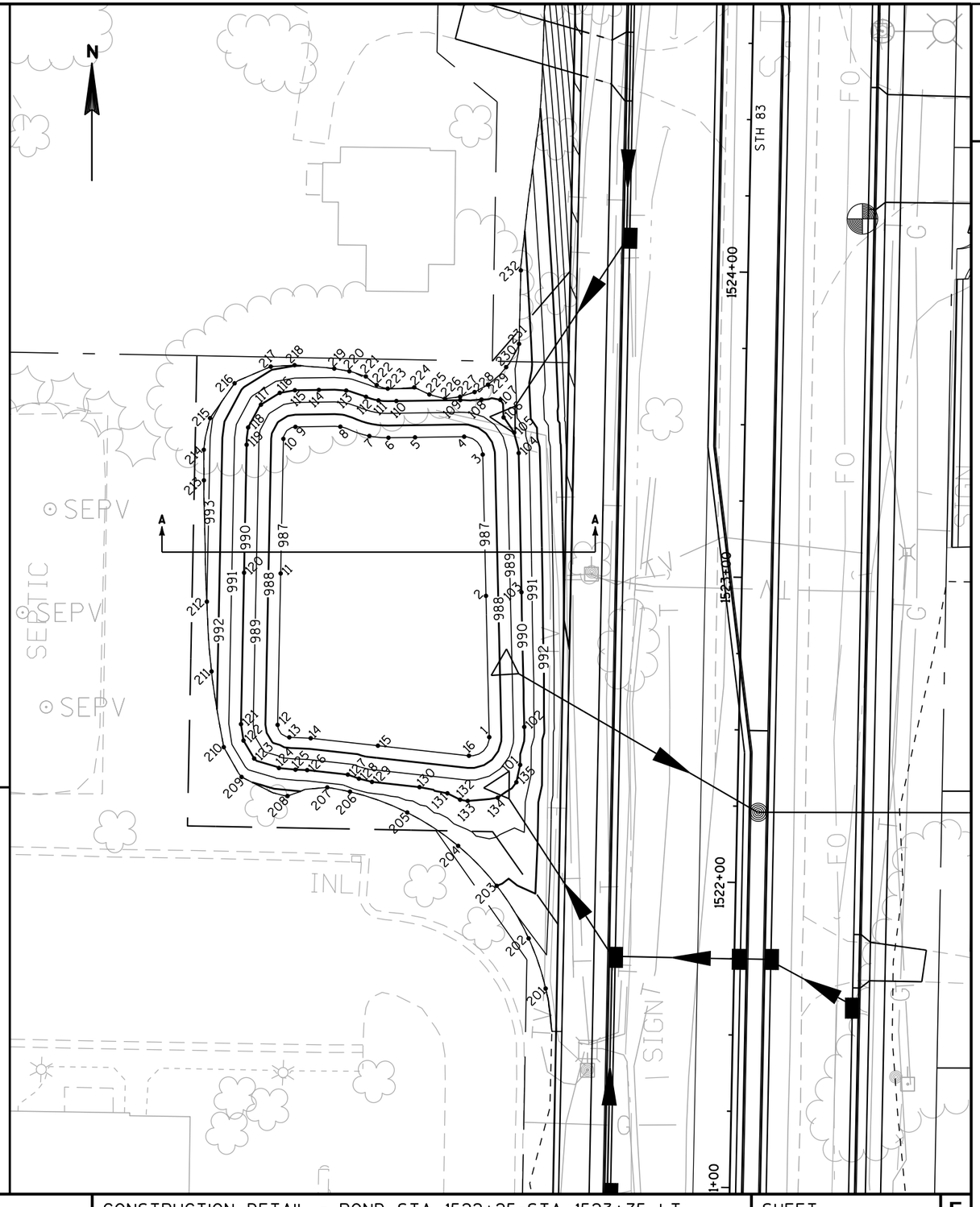
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CONSTRUCTION DETAIL - POND STA 1487+00-STA 1496+00, RT	SHEET 40	E

FILE NAME : J:\projects\d2_13301883\021004_cd.dgn PLOT DATE : 30-JUL-2013 15:48 PLOT BY : d1tj3s PLOT NAME : PLOT SCALE : 60:1

NUMBER	NORTHING	EASTING	ELEVATION
1	159328.63	642357.72	987.00
2	159374.92	642356.65	987.00
3	159421.22	642355.58	987.00
4	159427.08	642349.50	987.00
5	159426.85	642333.39	987.00
6	159426.73	642324.69	987.00
7	159427.30	642318.43	987.00
8	159430.35	642308.94	987.00
9	159430.30	642294.21	987.00
10	159426.38	642290.27	987.00
11	159382.27	642289.38	987.00
12	159332.65	642288.38	987.00
13	159328.57	642292.20	987.00
14	159328.26	642299.22	987.00
15	159325.82	642321.24	987.00
16	159322.52	642351.06	987.00
101	159319.54	642367.84	990.00
102	159331.98	642369.20	990.00
103	159376.12	642368.28	990.00
104	159421.71	642367.37	990.00
105	159428.42	642365.92	990.00
106	159433.40	642362.41	990.00
107	159439.15	642361.35	990.00
108	159439.25	642355.18	990.00
109	159439.07	642348.22	990.00
110	159438.77	642327.29	990.00
111	159438.96	642321.42	990.00
112	159440.14	642317.35	990.00
113	159442.20	642310.86	990.00
114	159442.41	642301.88	990.00
115	159442.30	642294.04	990.00
116	159441.43	642289.08	990.00
117	159437.58	642282.92	990.00
118	159430.11	642278.73	990.00
119	159424.43	642278.23	990.00
120	159382.51	642277.38	990.00
121	159332.89	642276.38	990.00
122	159327.51	642277.20	990.00
123	159321.62	642280.71	990.00
124	159318.51	642288.81	990.00
125	159317.97	642294.22	990.00
126	159317.82	642298.06	990.00
127	159316.35	642311.39	990.00
128	159315.04	642315.02	990.00
129	159313.96	642319.30	990.00
130	159312.24	642334.86	990.00
131	159310.22	642344.01	990.00
132	159308.14	642348.16	990.00
133	159307.71	642350.68	990.00
134	159308.79	642360.50	990.00
135	159313.85	642366.61	990.00
201	159246.24	642376.21	EXISTING GROUND
202	159262.67	642370.61	EXISTING GROUND
203	159279.90	642360.15	EXISTING GROUND
204	159292.99	642347.54	EXISTING GROUND
205	159303.93	642330.86	EXISTING GROUND
206	159310.74	642312.10	EXISTING GROUND
207	159312.16	642304.64	EXISTING GROUND
208	159309.33	642291.61	EXISTING GROUND
209	159315.56	642276.57	EXISTING GROUND
210	159325.35	642270.73	EXISTING GROUND
211	159350.15	642266.73	EXISTING GROUND
212	159373.01	642265.19	EXISTING GROUND
213	159412.78	642264.23	EXISTING GROUND
214	159422.78	642264.19	EXISTING GROUND
215	159433.17	642266.25	EXISTING GROUND
216	159444.57	642274.28	EXISTING GROUND
217	159450.04	642286.12	EXISTING GROUND
218	159450.53	642293.92	EXISTING GROUND
219	159449.40	642306.93	EXISTING GROUND
220	159448.52	642311.88	EXISTING GROUND
221	159446.82	642317.27	EXISTING GROUND
222	159444.01	642320.85	EXISTING GROUND
223	159442.83	642324.46	EXISTING GROUND
224	159443.26	642333.16	EXISTING GROUND
225	159440.92	642338.09	EXISTING GROUND
226	159439.53	642343.21	EXISTING GROUND
227	159440.16	642348.17	EXISTING GROUND
228	159441.71	642352.91	EXISTING GROUND
229	159444.12	642357.29	EXISTING GROUND
230	159449.88	642363.27	EXISTING GROUND
231	159457.48	642367.49	EXISTING GROUND
232	159481.57	642368.08	EXISTING GROUND



SECTION A-A



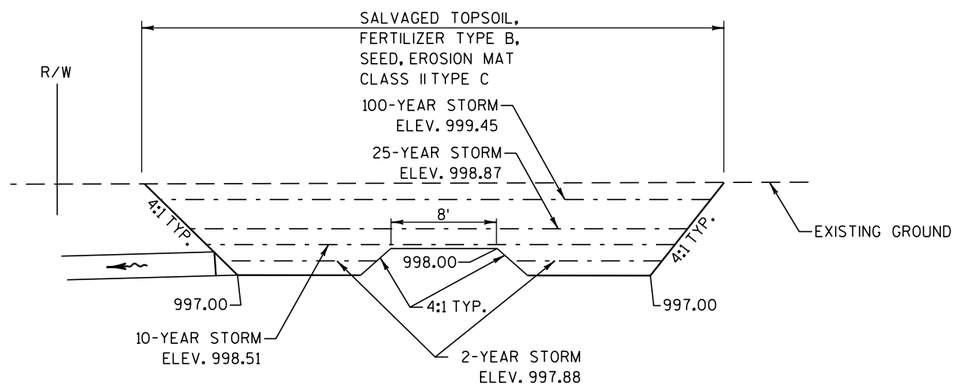
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CONSTRUCTION DETAIL - POND STA 1522+25-STA 1523+75, LT	SHEET	E

FILE NAME : J:\projects\d2_13301883\021005_cd.dgn PLOT DATE : 30-JUL-2013 15:48 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42

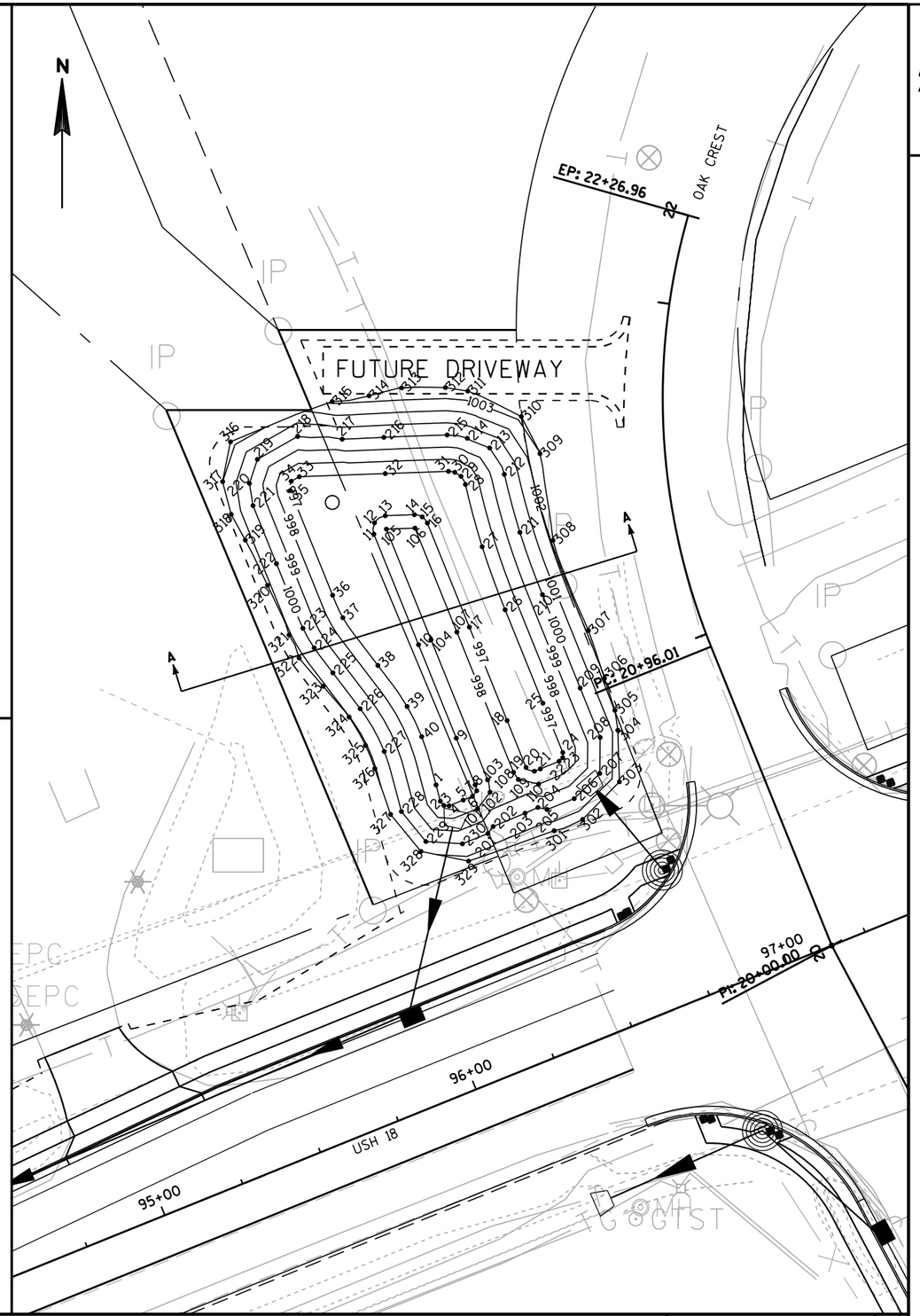
NAME	NORTHING	EASTING	ELEVATION
1	161964.25	643947.01	997.00
2	161959.41	643948.29	997.00
3	161958.14	643949.33	997.00
4	161958.04	643950.89	997.00
5	161959.74	643955.11	997.00
6	161960.86	643957.88	997.00
7	161962.51	643959.12	997.00
8	161964.27	643958.66	997.00
9	161978.18	643953.04	997.00
10	162005.99	643941.80	997.00
11	162038.91	643928.49	997.00
12	162042.29	643928.67	997.00
13	162044.40	643931.87	997.00
14	162044.72	643940.56	997.00
15	162044.07	643942.88	997.00
16	162042.22	643944.42	997.00
17	162011.24	643956.94	997.00
18	161983.42	643968.18	997.00
19	161969.46	643973.82	997.00
20	161968.31	643976.31	997.00
21	161969.03	643978.09	997.00
22	161971.29	643983.67	997.00
23	161972.36	643984.76	997.00
24	161973.89	643984.77	997.00
25	161988.58	643978.83	997.00
26	162016.40	643967.59	997.00
27	162035.18	643960.75	997.00
28	162053.72	643955.76	997.00
29	162056.14	643954.44	997.00
30	162057.32	643952.61	997.00
31	162057.62	643950.70	997.00
32	162056.95	643931.85	997.00
33	162056.03	643906.25	997.00
34	162054.66	643903.86	997.00
35	162051.91	643903.60	997.00
36	162020.71	643916.20	997.00
37	162014.03	643919.24	997.00

NAME	NORTHING	EASTING	ELEVATION
38	161999.81	643929.69	997.00
39	161987.60	643938.38	997.00
40	161978.62	643942.75	997.00
101	161957.16	643959.39	998.00
102	161962.08	643963.10	998.00
103	161965.77	643962.37	998.00
104	162007.49	643945.51	998.00
105	162040.41	643932.20	998.00
106	162040.72	643940.71	998.00
107	162009.74	643953.23	998.00
108	161968.02	643970.09	998.00
109	161965.87	643971.53	998.00
110	161964.52	643977.57	998.00
201	161949.76	643962.44	1000.00
202	161951.85	643964.01	1000.00
203	161955.82	643973.53	1000.00
204	161957.54	643977.36	1000.00
205	161956.93	643980.10	1000.00
206	161960.16	643988.16	1000.00
207	161967.67	643995.80	1000.00
208	161978.39	643995.90	1000.00
209	161993.08	643989.96	1000.00
210	162020.89	643978.72	1000.00
211	162039.45	643971.99	1000.00
212	162056.72	643967.35	1000.00
213	162064.58	643962.97	1000.00
214	162067.45	643956.33	1000.00
215	162068.46	643950.31	1000.00
216	162067.75	643931.46	1000.00
217	162067.20	643919.04	1000.00
218	162068.02	643905.76	1000.00
219	162061.19	643893.79	1000.00
220	162054.03	643891.41	1000.00
221	162047.41	643892.47	1000.00
222	162030.12	643899.46	1000.00

NAME	NORTHING	EASTING	ELEVATION
223	162010.88	643907.35	1000.00
224	162005.06	643910.69	1000.00
225	161997.63	643916.26	1000.00
226	161986.95	643924.41	1000.00
227	161974.22	643931.58	1000.00
228	161956.34	643936.69	1000.00
229	161947.40	643943.96	1000.00
230	161946.72	643954.87	1000.00
301	161950.62	643982.20	EXISTING GROUND
302	161953.97	643990.67	EXISTING GROUND
303	161965.19	644001.64	EXISTING GROUND
304	161980.52	644001.18	EXISTING GROUND
305	161986.47	644000.29	EXISTING GROUND
306	161996.00	643997.18	EXISTING GROUND
307	162010.24	643992.40	EXISTING GROUND
308	162037.08	643981.86	EXISTING GROUND
309	162062.89	643977.97	EXISTING GROUND
310	162073.94	643972.43	EXISTING GROUND
311	162081.51	643956.47	EXISTING GROUND
312	162082.56	643949.81	EXISTING GROUND
313	162082.47	643936.74	EXISTING GROUND
314	162080.12	643927.05	EXISTING GROUND
315	162078.40	643916.07	EXISTING GROUND
316	162066.41	643885.75	EXISTING GROUND
317	162054.56	643883.43	EXISTING GROUND
318	162044.79	643885.98	EXISTING GROUND
319	162037.16	643890.18	EXISTING GROUND
320	162023.66	643896.81	EXISTING GROUND
321	162008.89	643903.23	EXISTING GROUND
322	162002.04	643906.21	EXISTING GROUND
323	161993.65	643913.36	EXISTING GROUND
324	161984.43	643921.10	EXISTING GROUND
325	161976.04	643925.99	EXISTING GROUND
326	161969.10	643928.77	EXISTING GROUND
327	161955.48	643933.46	EXISTING GROUND
328	161944.47	643942.49	EXISTING GROUND
329	161941.56	643956.69	EXISTING GROUND



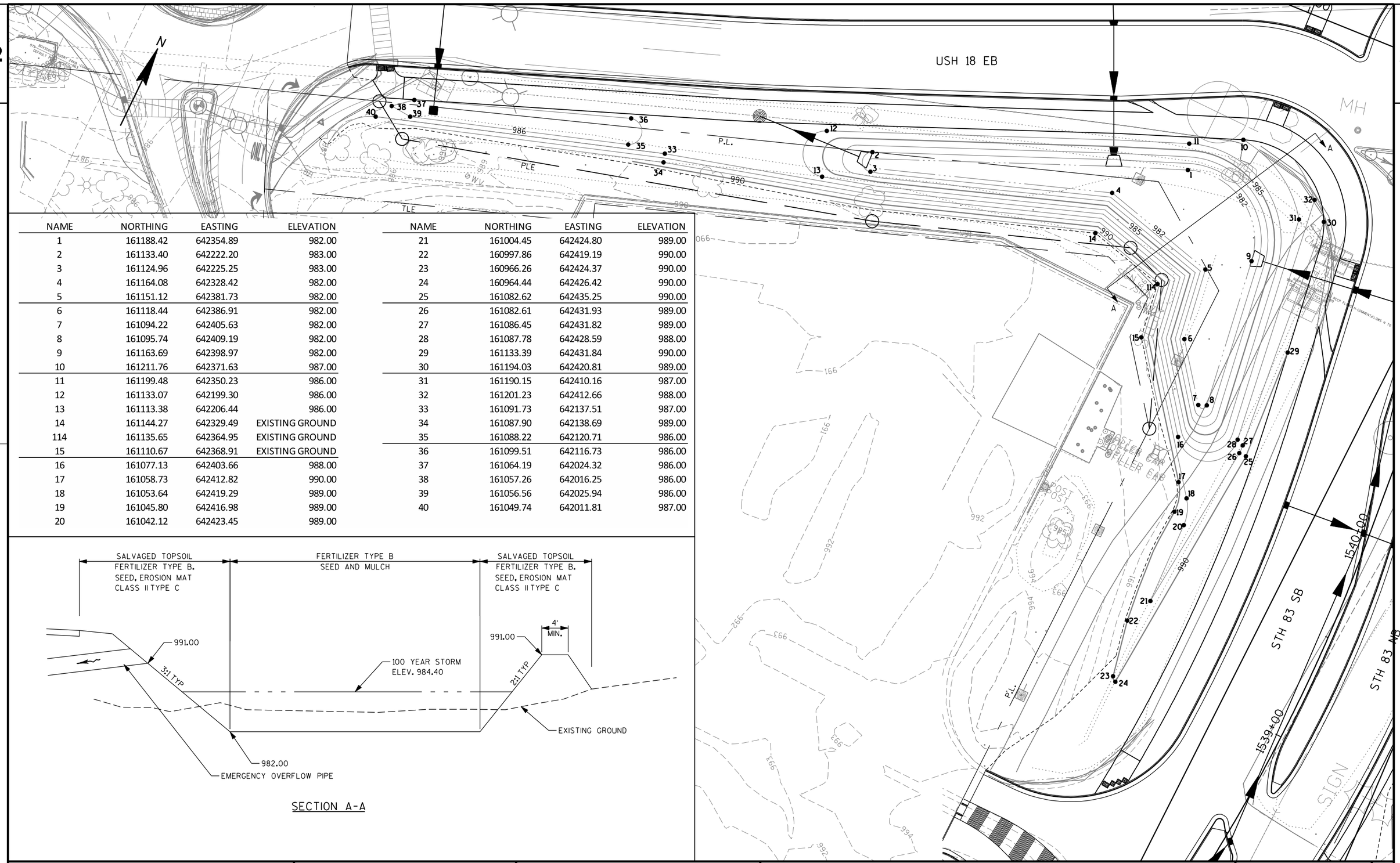
SECTION A-A

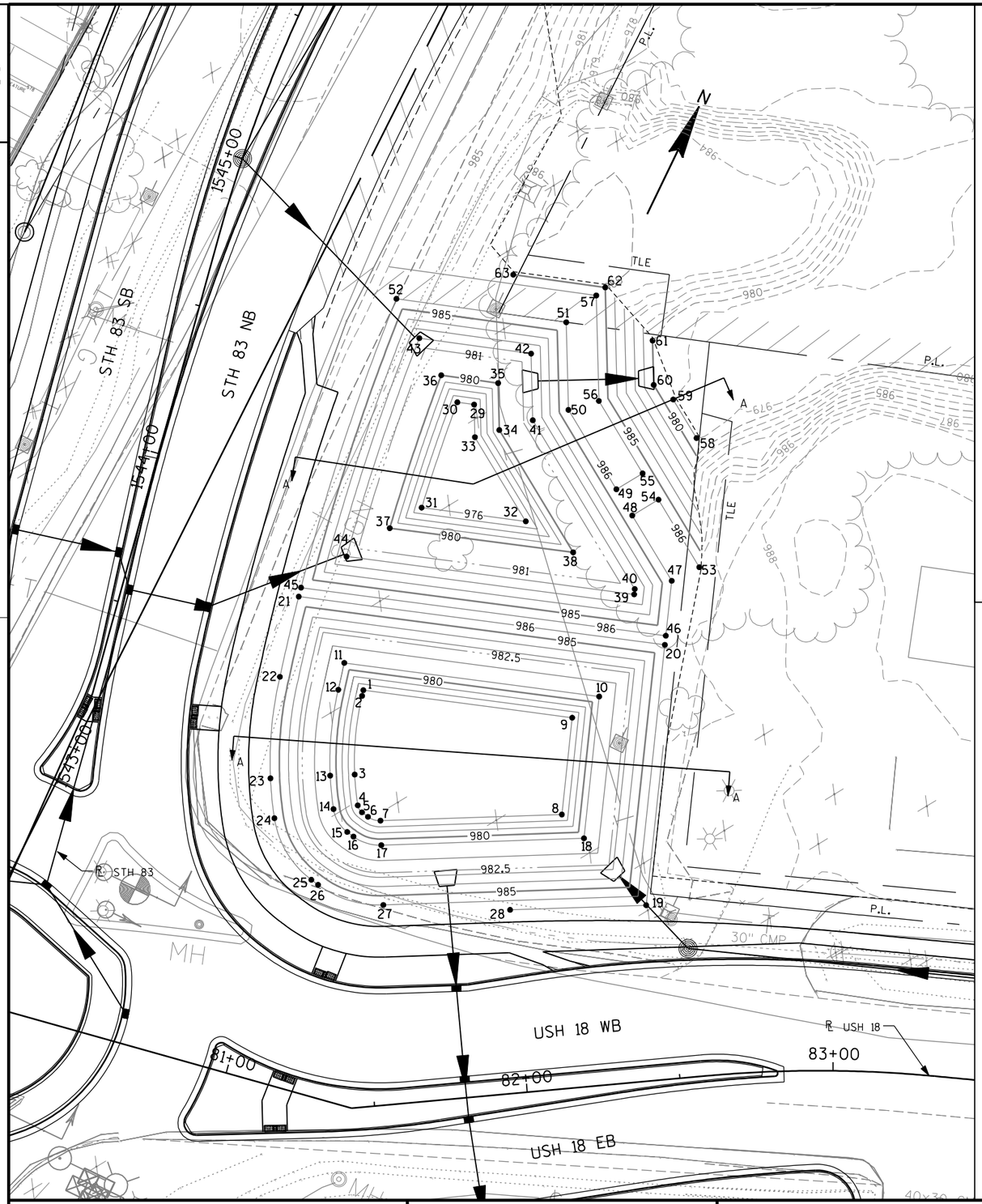


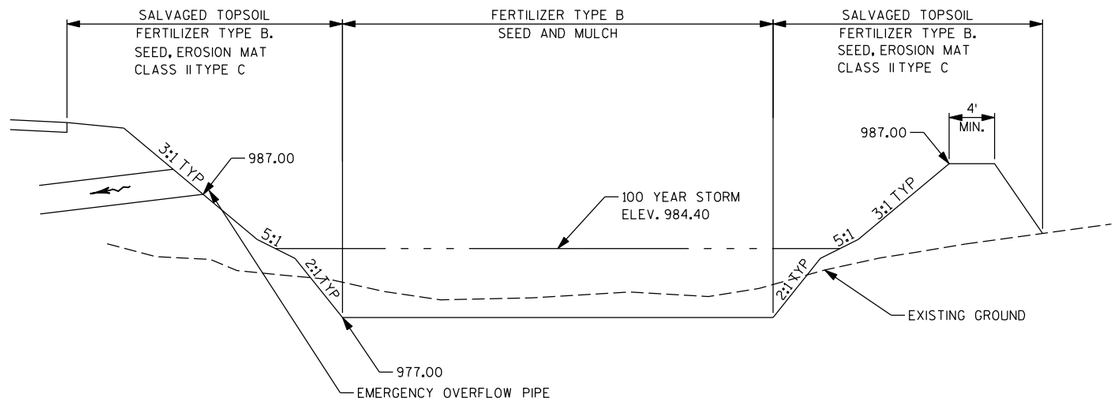
NAME	NORTHING	EASTING	ELEVATION
1	161188.42	642354.89	982.00
2	161133.40	642222.20	983.00
3	161124.96	642225.25	983.00
4	161164.08	642328.42	982.00
5	161151.12	642381.73	982.00
6	161118.44	642386.91	982.00
7	161094.22	642405.63	982.00
8	161095.74	642409.19	982.00
9	161163.69	642398.97	982.00
10	161211.76	642371.63	987.00
11	161199.48	642350.23	986.00
12	161133.07	642199.30	986.00
13	161113.38	642206.44	986.00
14	161144.27	642329.49	EXISTING GROUND
114	161135.65	642364.95	EXISTING GROUND
15	161110.67	642368.91	EXISTING GROUND
16	161077.13	642403.66	988.00
17	161058.73	642412.82	990.00
18	161053.64	642419.29	989.00
19	161045.80	642416.98	989.00
20	161042.12	642423.45	989.00

NAME	NORTHING	EASTING	ELEVATION
21	161004.45	642424.80	989.00
22	160997.86	642419.19	990.00
23	160966.26	642424.37	990.00
24	160964.44	642426.42	990.00
25	161082.62	642435.25	990.00
26	161082.61	642431.93	989.00
27	161086.45	642431.82	989.00
28	161087.78	642428.59	988.00
29	161133.39	642431.84	990.00
30	161194.03	642420.81	989.00
31	161190.15	642410.16	987.00
32	161201.23	642412.66	988.00
33	161091.73	642137.51	987.00
34	161087.90	642138.69	989.00
35	161088.22	642120.71	986.00
36	161099.51	642116.73	986.00
37	161064.19	642024.32	986.00
38	161057.26	642016.25	986.00
39	161056.56	642025.94	986.00
40	161049.74	642011.81	987.00

SECTION A-A





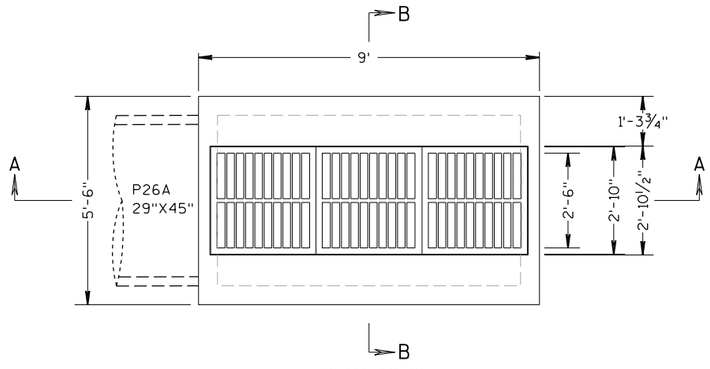


SECTION A-A

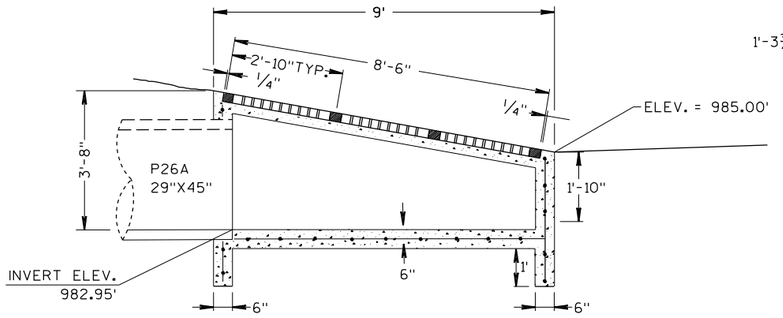
NAME	NORTHING	EASTING	ELEVATION
1	161431.67	642557.19	977.00
2	161428.81	642557.63	977.00
3	161405.67	642566.62	977.00
4	161397.05	642571.89	977.00
5	161395.60	642574.10	977.00
6	161395.14	642576.51	977.00
7	161395.78	642580.72	977.00
8	161423.31	642633.12	977.00
9	161453.20	642622.44	977.00
10	161463.24	642627.35	981.00
11	161436.97	642547.73	981.00
12	161428.25	642549.78	981.00
13	161401.87	642559.58	981.00
14	161392.52	642565.30	981.00
15	161387.75	642572.56	981.00
16	161387.27	642575.05	981.00
17	161388.70	642584.44	981.00
18	161419.46	642642.99	981.00
19	161408.63	642670.75	987.00
20	161487.73	642639.31	986.00
21	161449.99	642524.96	986.00
22	161423.76	642530.81	986.00
23	161392.62	642542.42	986.00
24	161381.46	642549.23	986.00
25	161368.62	642568.81	986.00
26	161368.10	642571.50	986.00
27	161371.43	642593.51	986.00
28	161387.97	642631.43	987.00
29	161531.24	642549.23	976.00
30	161529.55	642543.98	976.00
31	161493.54	642548.43	976.00
32	161504.28	642580.97	976.00
33	161521.79	642554.09	976.00
34	161527.33	642560.24	980.00
35	161540.94	642553.24	980.00
36	161535.19	642535.42	980.00
37	161482.99	642541.98	980.00
38	161501.89	642599.28	980.00
39	161498.19	642623.15	982.00
40	161499.86	642622.56	982.00
41	161534.95	642568.69	982.00
42	161554.29	642558.75	982.00
43	161542.97	642523.73	982.00
44	161468.54	642533.3	982.00
45	161452.95	642524.36	986.00
46	161490.55	642638.3	986.00
47	161507.51	642632.25	986.00
48	161521.09	642611.4	986.00
49	161526.55	642603.02	986.00
50	161543.06	642577.68	986.00
51	161568.47	642564.62	986.00
52	161551.29	642511.41	986.00
53	161515.41	642638.43	986.00
54	161529.47	642616.86	986.00
55	161534.93	642608.48	986.00
56	161549.99	642585.36	986.00
57	161580.60	642569.63	986.00
58	161552.95	642619.29	979.00
59	161560.96	642606.99	979.00
60	161562.47	642599.18	980.00
61	161575.34	642592.57	980.00
62	161584.24	642571.13	985.00
63	161574.93	642542.31	985.00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CONSTRUCTION DETAIL - WET DETENTION POND	SHEET 44	E

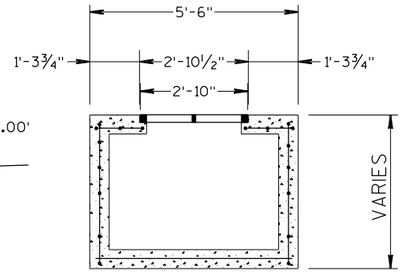
FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021005_cd.dgn
PLOT DATE : 7/17/2013 3:03:07 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.
WISDOT/CADDS SHEET 42



PLAN VIEW



SECTION A-A

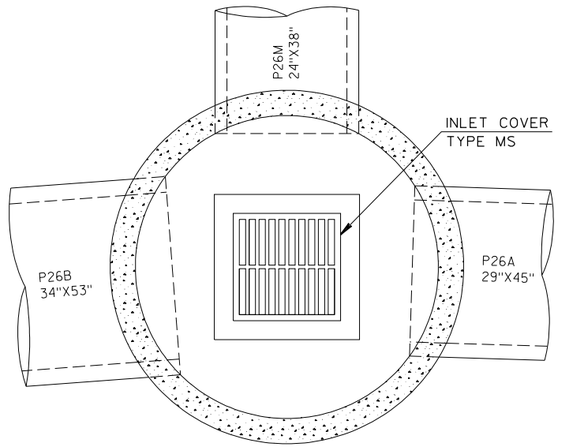


SECTION B-B

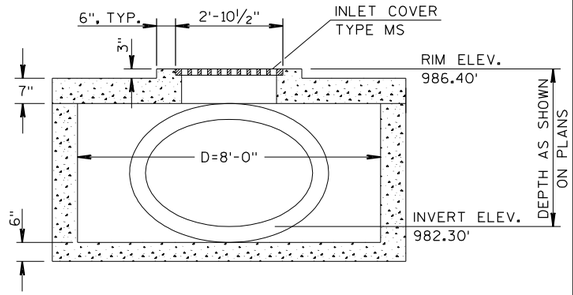
MODIFIED INLET MEDIAN 3 GRATE- STRUCTURE 26A

NOTES:

1. COVERS PAID FOR AS INLET COVERS TYPE MS
2. CONSTRUCTION SHALL CONFORM TO SDD "INLETS MEDIAN 3 & 4 GRATE"



PLAN VIEW - STRUCTURE 26B

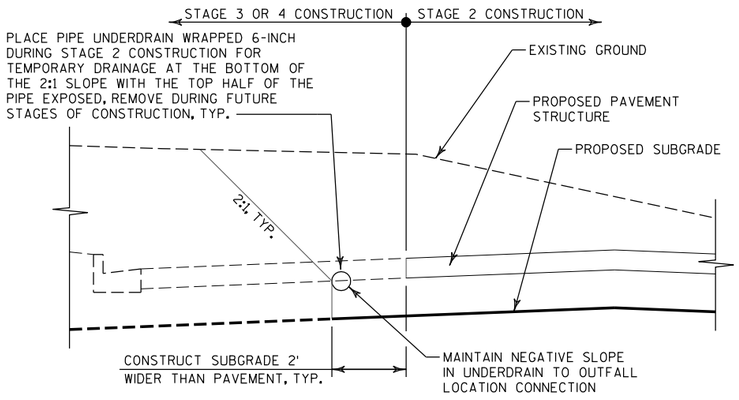


SECTION VIEW - STRUCTURE 26B

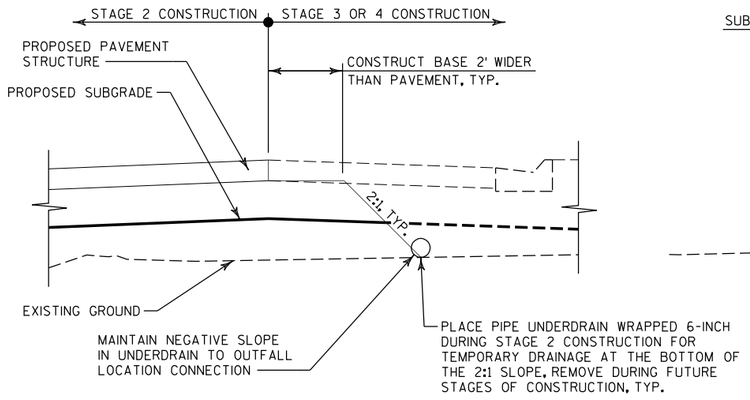
MODIFIED MANHOLE 8-FT DIAMETER

NOTES:

1. COVERS PAID FOR AS INLET COVERS TYPE MS AND MANHOLE COVERS TYPE J
2. CONSTRUCTION SHALL CONFORM TO SDD "MANHOLES 3-FT, 4-FT 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER"

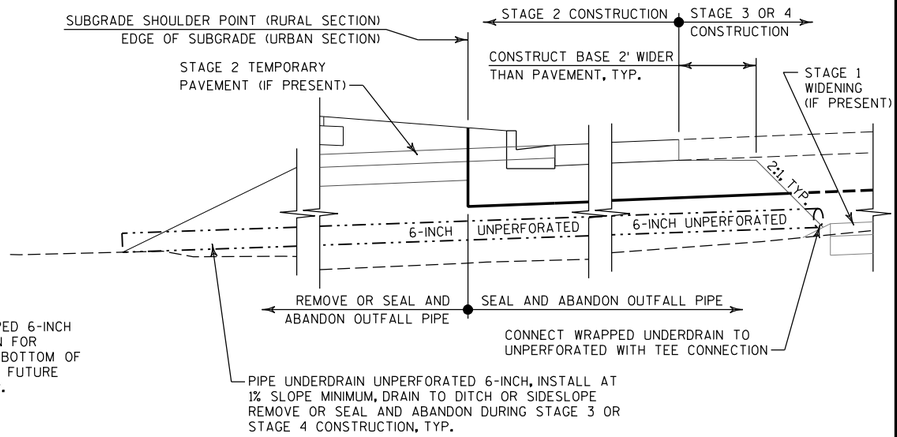


IN CUT SECTIONS

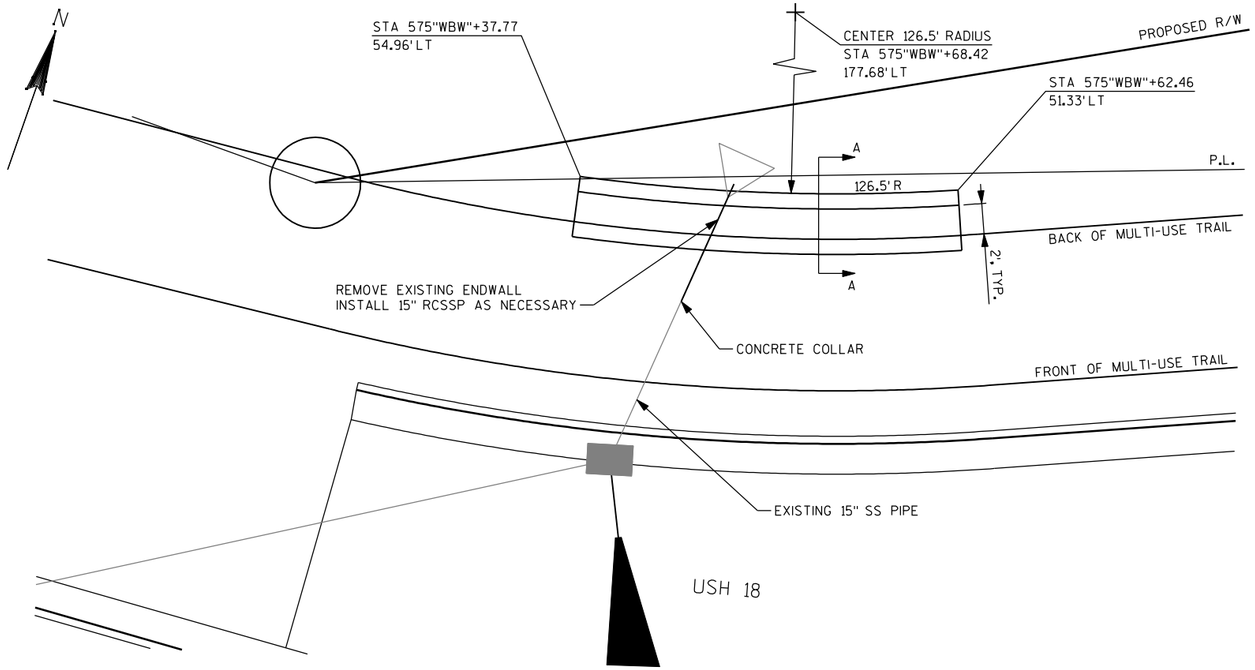


IN FILL SECTIONS

PIPE UNDERDRAIN SPECIAL DETAILS



UNPERFORATED OUTFALLS



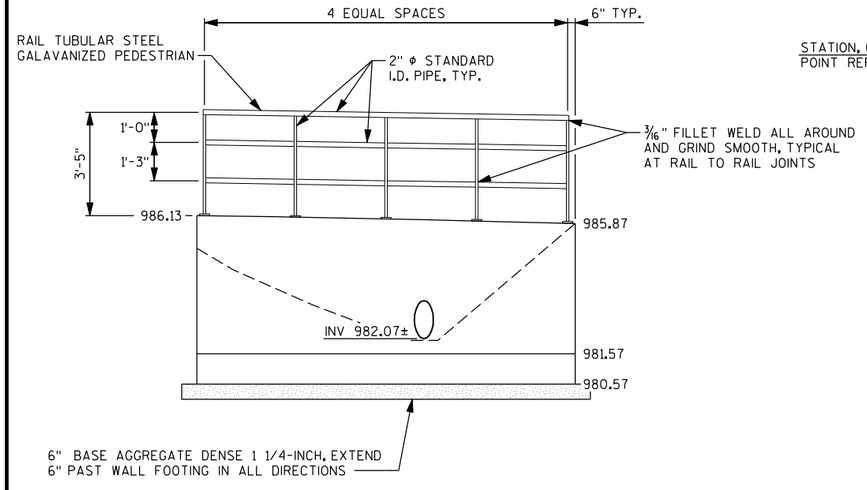
PLAN

GENERAL NOTES:

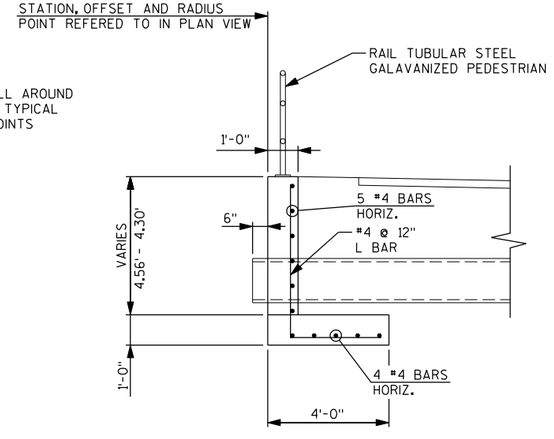
1. PAID FOR AS CONCRETE MASONRY ENDWALLS, SPECIAL.
2. MATERIALS AND CONSTRUCTION OF THE CONCRETE ENDWALL SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 504.
3. PROVIDE A MINIMUM OF 6" OF COMPACTED BASE AGGREGATE DENSE 1 1/4-INCH UNDER THE BOTTOM SLAB.

RAILING NOTES:

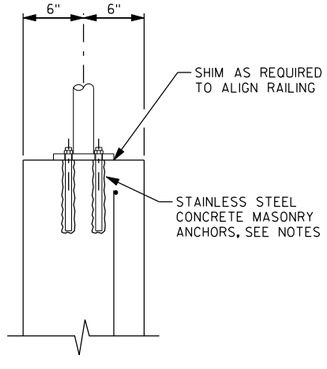
1. BID ITEM SHALL BE "RAIL TUBULAR STEEL GALAVANIZED PEDESTRIAN", WHICH SHALL INCLUDE ALL STEEL ITEMS, CONCRETE MASONRY ANCHORS, GALVANIZING PAINTING AND INSTALLATION.
2. PROVIDE A 5/8" X 6" X 8" STEEL PLATE WITH 3/4" X 1 1/2" SLOTTED HOLES WELDED TO THE RAIL POSTS FOR MOUNTING THE RAILING TO THE ENDWALL.
3. PROVIDE A 1/2" Φ DRAIN HOLE AT THE BOTTOM OF EACH RAIL END AND A 1/4" Φ DRAIN HOLE AT THE BOTTOM OF EACH RAIL POST.
4. CONSTRUCT WITH RAIL POSTS VERTICAL AND RAILS PARELLEL TO THE TOP OF THE ENDWALL.
5. ANCHOR RAIL BASE PLATE TO ENDWALL WITH (4) STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), 5/8" Φ, MINIMUM PULLOUT CAPACITY OF 20 KIPS, EMBED A MINIMUM OF 7 INCHES. ANCHORS AND INSTALLATION SHALL BE INCIDENTAL TO THE RAILING BID ITEM.
6. BASE PLATE SHALL CONFORM TO A.S.T.M. A709 GRADE 36, STANDARD PIPE RAIL SHALL CONFORM TO A.S.T.M. A500 GRADE B.
7. 1/16" THICK GALVANIZED STEEL SHIMS SHALL BE PROVIDED AND USED UNDER BASE PLATES WHEN REQUIRED FOR ALIGNMENT.
8. FILL ANCHOR BOLT SLOT HOLES IN SHIMS AND BASE PLATE AND CAULK AROUND PERIMETER OF BASE PLATE WITH NON-STAINING BLACK NON-BITUMINOUS JOINT SEALER.
9. DRAIN HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.
10. GALVANIZE AFTER FABRICATION AND THE PAINT GALVANIZED RAILING WITH A TWO COAT SYSTEM SPECIFICALLY INTENDED FOR PAINTING OF GALVANIZED SURFACES PER THE SPECIAL PROVISIONS. SHIMS SHALL BE GALVANIZED PER A.S.T.M. 123. THE FINISH COLOR SHALL BE FEDERAL COLOR NO. 27038, BLACK.
11. RAILING SHALL BE FABRICATED IN ONE LENGTH.
12. PAINT TOUCH-UP TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



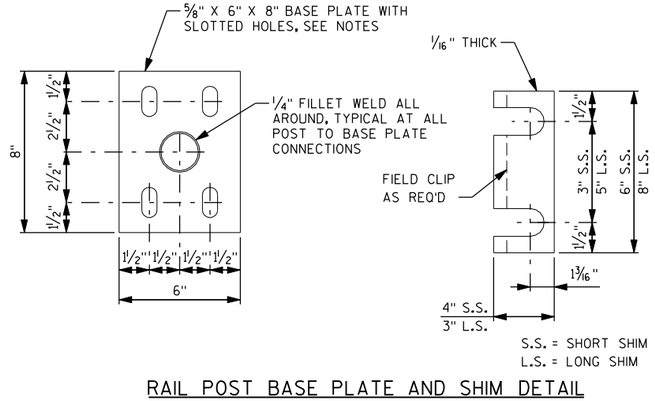
ELEVATION



SECTION A-A



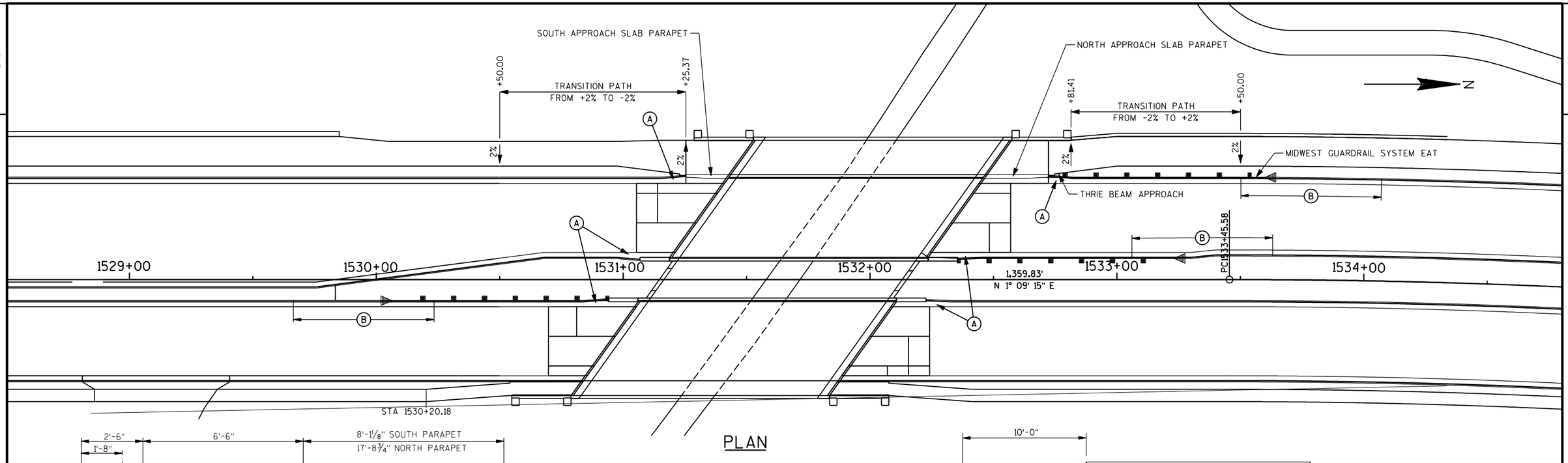
RAIL CONNECTION DETAIL



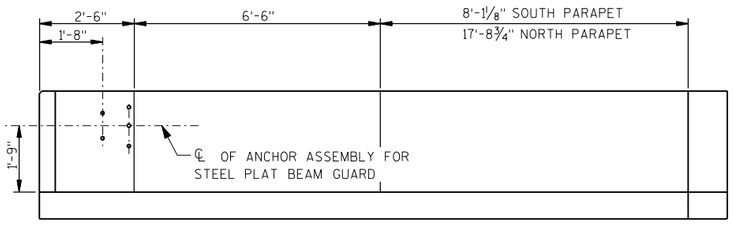
RAIL POST BASE PLATE AND SHIM DETAIL

CONCRETE MASONRY ENDWALLS, SPECIAL

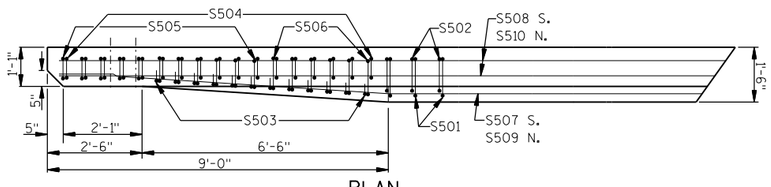
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CONSTRUCTION DETAIL	SHEET 46	E



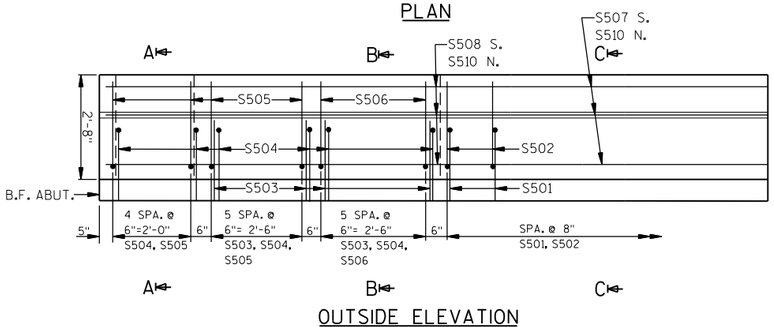
PLAN



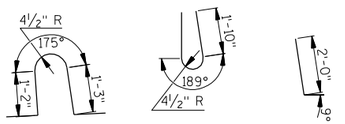
INSIDE ELEVATION



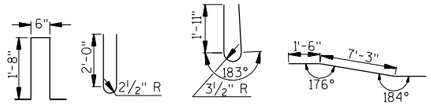
PLAN



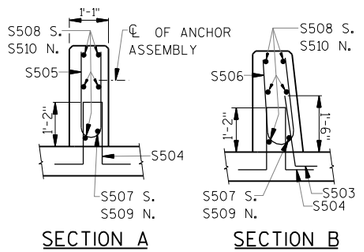
OUTSIDE ELEVATION



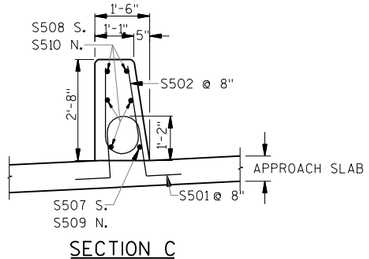
S501 S502 S503



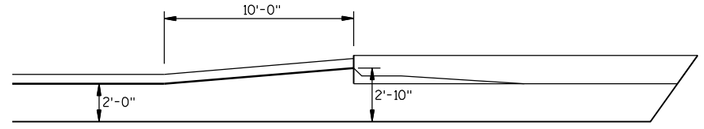
S504 S505 S506 S507



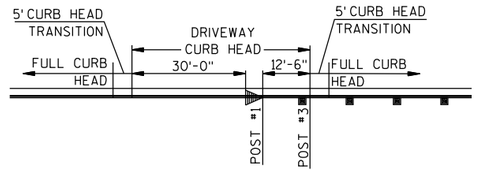
SECTION A SECTION B



SECTION C



Ⓐ CURB & GUTTER TRANSITION TO CONCRETE PARAPET



Ⓑ DRIVEWAY CURB HEAD AT GUARDRAIL

NOTES:

1. APPROACH SLAB PARAPET SHALL BE PAID FOR AS CONCRETE BARRIER TYPE S32.
2. ALL BAR STEEL SHALL BE INCIDENTAL TO THE CONCRETE BARRIER BID ITEM.
3. APPROACH SLAB WILL BE PAID FOR SEPARATELY UNDER THE APPROACH SLAB BID ITEM.
4. ARCHITECTURAL SURFACE TREATMENT SHALL BE APPLIED OT THE BACK FACE OF THE APPROACH SLAB PARAPET TO MATCH THE FORM LINER ON THE BRIDGE PARAPET. THIS SHAL BE INCIDENTAL TO THE CONCRETE BARRIER BID ITEM.

BILL OF BARS

BAR MARK	COAT	NO. S. ABUT.	NO. N. ABUT.	LENGTH	BENT	LOCATION
S501	X	13	26	4'-5"	X	PARAPET VERT.
S502	X	13	26	5'-0"	X	PARAPET VERT.
S503	X	12	12	2'-9"	X	PARAPET VERT.
S504	X	17	17	4'-4"	X	PARAPET VERT.
S505	X	11	11	4'-9"	X	PARAPET VERT.
S506	X	6	6	4'-10"	X	PARAPET VERT.
S507	X	1		16'-7"	X	PARAPET HORIZ.
S508	X	5		16'-7"		PARAPET HORIZ.
S509	X		1	26'-2"	X	PARAPET HORIZ.
S510	X		5	26'-2"		PARAPET HORIZ.

APPROACH SLAB PARAPET DETAIL

2

2

STA 1531+81.16
STRUCTURE B-67-317 REQUIRED
SINGLE SPAN 45W-INCH PRESTRESSED GIRDER
32' CLEAR ROADWAY WIDTH
SKEW 35.5°

N

EXISTING CONTOURS, TYP.

SEE CROSS SECTION DRAWINGS

SLOPE INTERCEPT, TYP.

GLACIAL DRUMLIN TRAIL

STA 1531+64.75
REMOVE STRUCTURE B-67-15
FIVE SPAN CONCRETE HAUNCHED SLAB
162.5' OVERALL LENGTH
32.5' OVERALL LENGTH WIDTH

T.L.E.

PROPOSED R/W

EXISTING R/W

B-2

B-3

B-67-317

END OF EXISTING DECK
STATION 1530+84.47

STH 83 SB

PC 1533+45.58

PI 1534+86.96

529+00 1530+00 1531+00 1532+00 1533+00 1534+00 1535+00

END OF EXISTING DECK
STATION 1532+46.49

STH 83 NB

B-67-329

B-67-1

SIGN

SIGN

SEE CROSS SECTION DRAWINGS

PROPOSED CONTOURS, TYP.

SEE CROSS SECTION DRAWINGS

STA 1531+48.35
STRUCTURE B-67-329 REQUIRED
SINGLE SPAN 45W-INCH PRESTRESSED GIRDER
32' CLEAR ROADWAY WIDTH
SKEW 35.5°

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CONTOUR PLAN	SHEET 48	E

2

SLOPE INTERCEPT, TYP.

APPROXIMATE PROPOSED CONTOURS FOR STRUCTURE EXCAVATION. ASSUMED 1.5:1 SLOPE, TYP.

GLACIAL DRUMLIN TRAIL

N

EXISTING R/W

T.L.E.

PROPOSED R/W

R-67-107, CONSTRUCT IN STAGE 1

EXISTING R/W

SEE TRAFFIC STAGING PLANS FOR TEMPORARY PAVEMENT DETAILS

B-67-317 - STAGE 1 CONSTRUCTION TO CROWN OF PROPOSED SB LANES

TEMPORARY SHORING, TYP.

T.S. WALL 01

BLOCK FROM EDGE OF FOOTING TO END OF ABUTMENT STEM BEFORE BACKFILLING TO ALLOW FOR STAGE 3 CONSTRUCTION. BLOCKING TO REMAIN IN PLACE AND PAID FOR AS TEMPORARY SHORING

T.S. WALL 02

SELECTIVELY REMOVE ABUTMENT CORNER FOR TEMPORARY SHORING

SEE TRAFFIC STAGING PLANS FOR TEMPORARY PAVEMENT DETAILS

1531+00

1532+00

1533+00

TEMPORARY SHORING, TYP.

STH 83

℄ STH 83

B-67-15, TO BE REMOVED IN STAGE 2

EXISTING CONTOURS, TYP.

EXISTING R/W

EXISTING R/W

PROPOSED R/W

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SHORING DETAILS - CONSTRUCTION STAGE 1	SHEET 49	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021601_cm_s1.dgn PLOT DATE : 5/30/2013 3:34:43 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 20.0000 sf / IN.

2

2

SLOPE INTERCEPT, TYP.

GLACIAL DRUMLIN TRAIL

N

T.L.E.

PROPOSED R/W

EXISTING R/W

FINISHED GRADE CONTOURS, TYP.

INSTALL TEMPORARY SHORING TO SUPPORT FINISHED ROADWAY TO ALLOW FOR STAGE 3 CONSTRUCTION

TEMPORARY SHORING TO REMAIN IN PLACE DURING STAGE 2

T.S. WALL 01

T.S. WALL 02

T.S. WALL 03

T.S. WALL 04

STH 83

℄ STH 83

1531+00

1532+00

1533+00

B-67-329

1011

1010

1009

1008

1005

1000

995

EXISTING CONTOURS, TYP.

APPROXIMATE PROPOSED CONTOURS FOR STRUCTURE EXCAVATION. ASSUMED 1.5:1 SLOPE, TYP.

EXISTING R/W

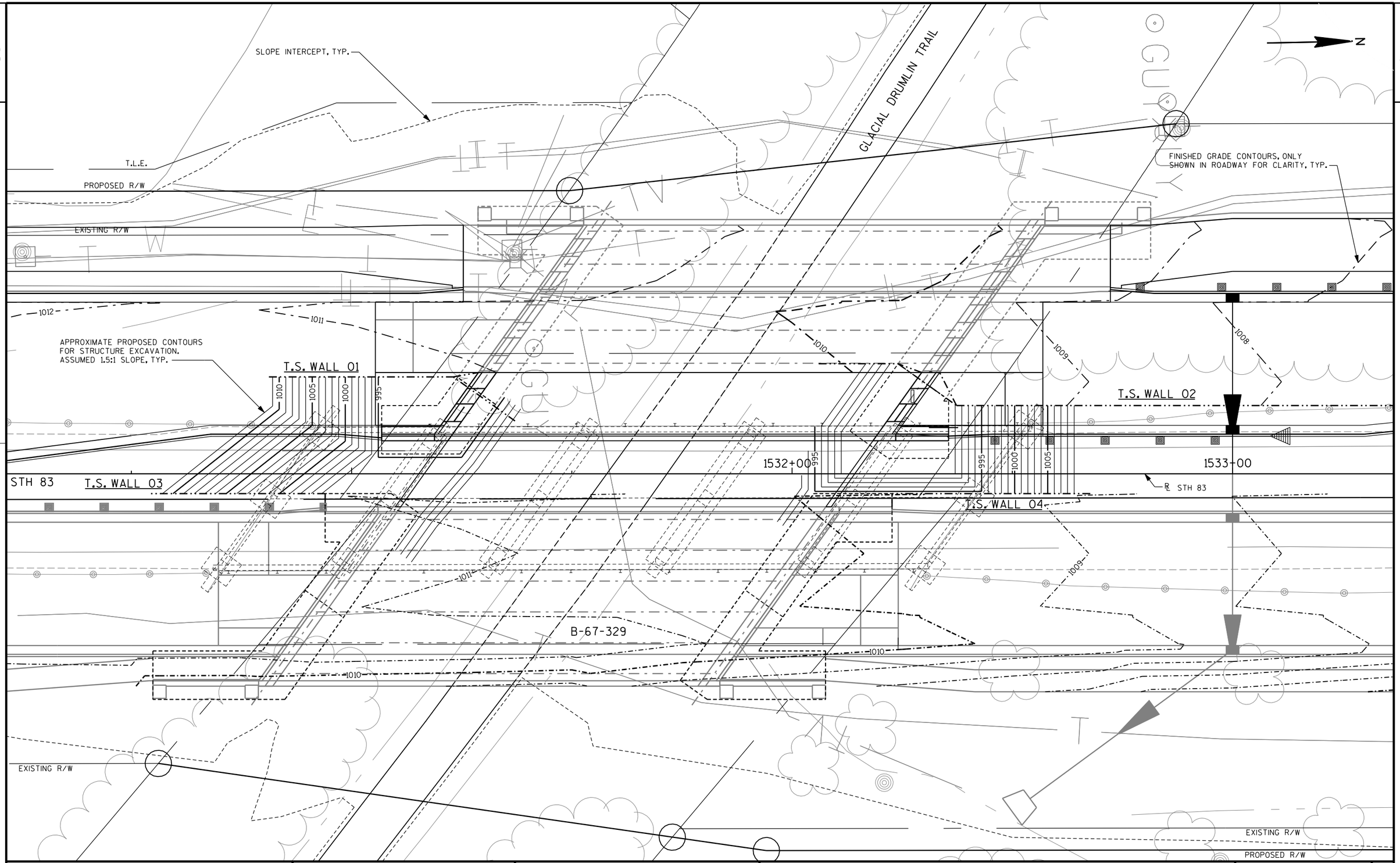
PROPOSED R/W

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SHORING DETAILS - CONSTRUCTION STAGE 2	SHEET 50	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021601_cm_s2.dgn PLOT DATE : 5/30/2013 3:34:20 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 20.0000 sf / IN.

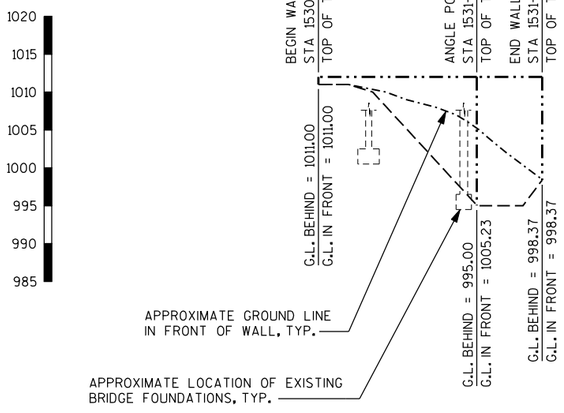
WISDOT/CADDS SHEET 42

2

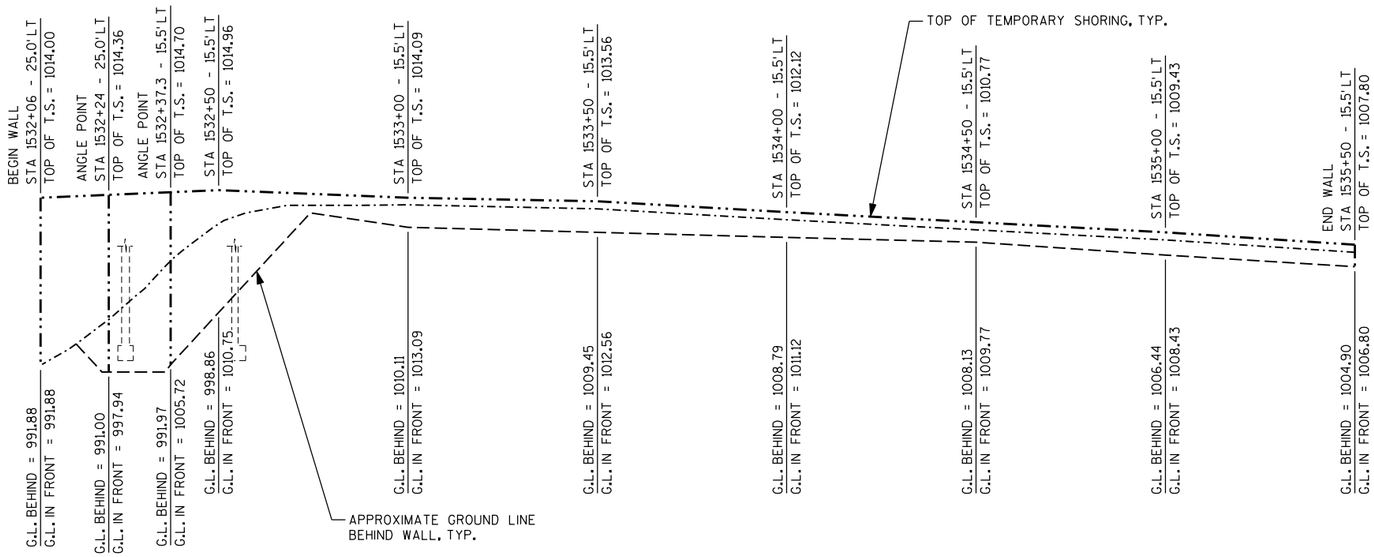


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SHORING DETAILS - CONSTRUCTION STAGE 3	SHEET 51	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021601_cm_s3.dgn
PLOT DATE : 5/30/2013 3:57:59 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 20.0000 sf / IN.



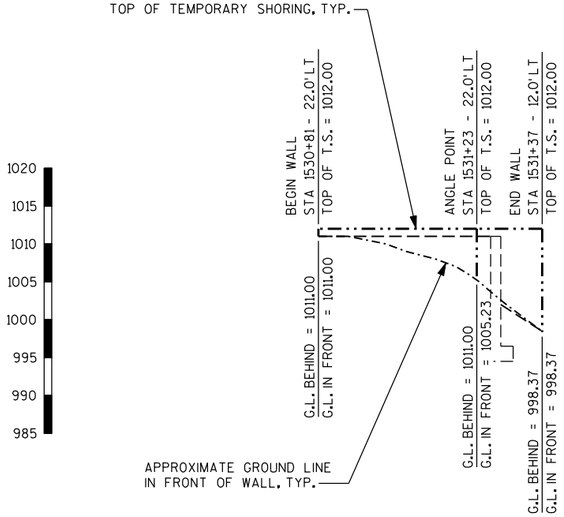
T.S. WALL 01



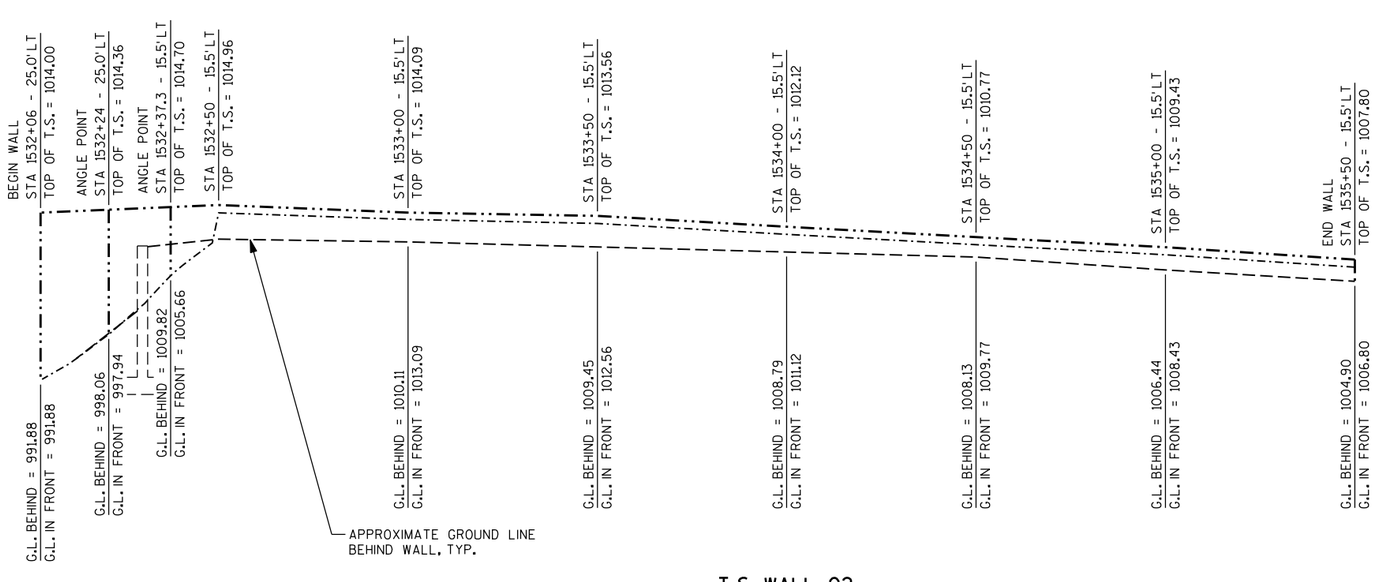
T.S. WALL 02

STAGE 1 - ELEVATION

LOOKING WEST
(DURING B-67-317 STAGE 1 CONSTRUCTION)



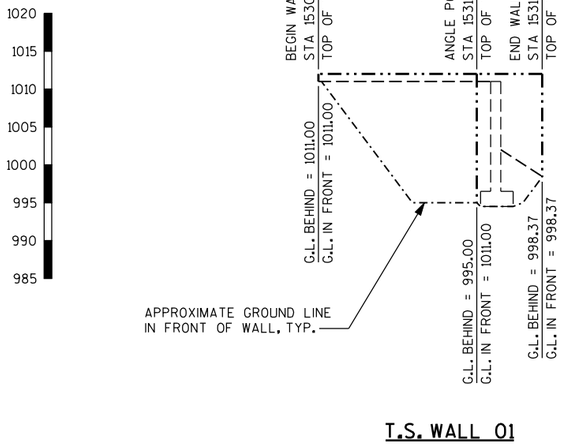
T.S. WALL 01



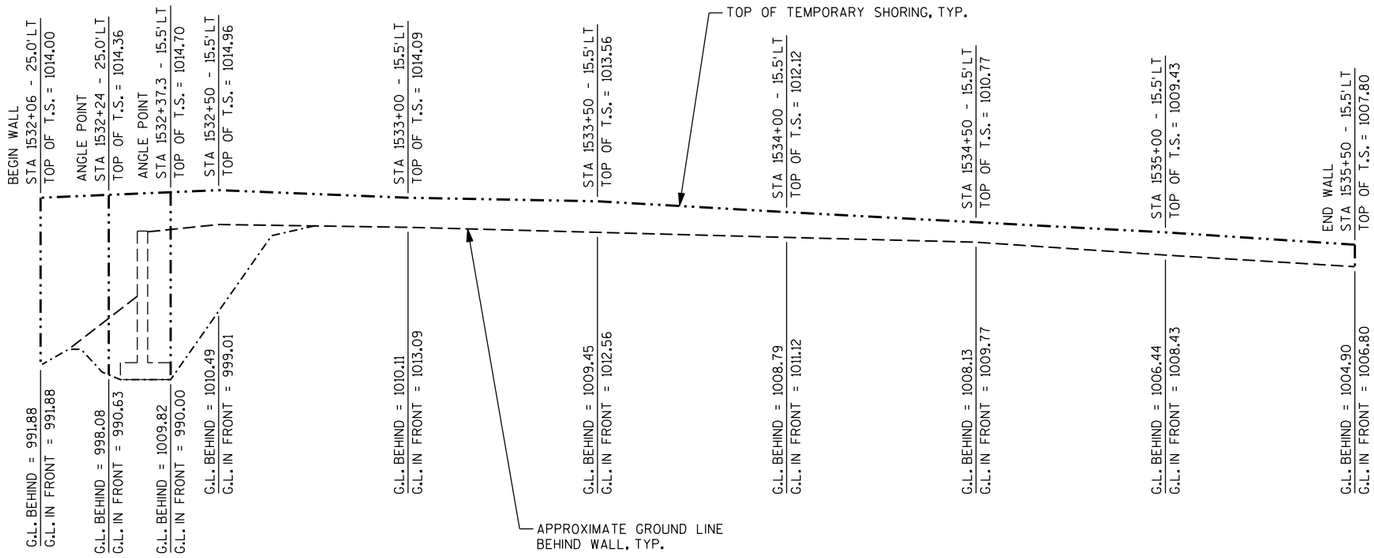
T.S. WALL 02

STAGE 2 - ELEVATION

LOOKING WEST
(AFTER B-67-317 STAGE 1 CONSTRUCTION)



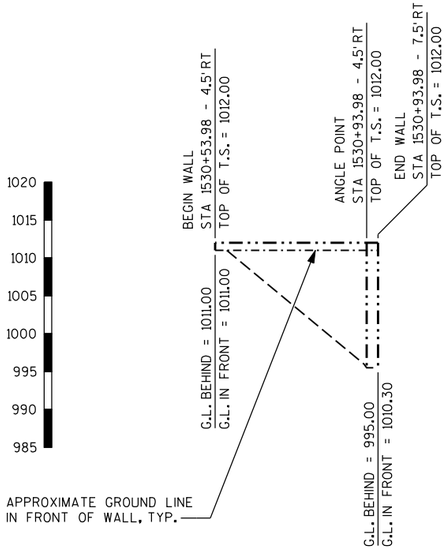
T.S. WALL 01



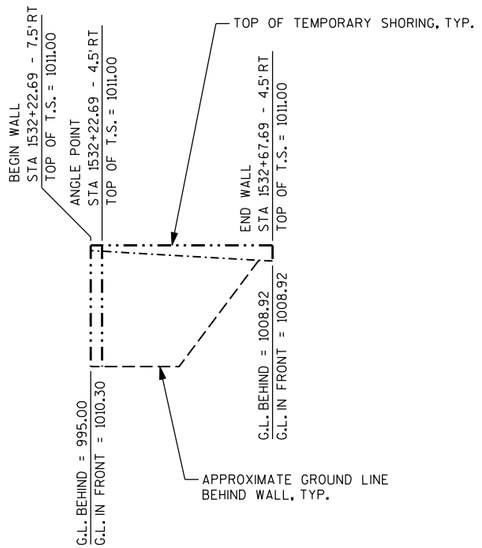
T.S. WALL 02

STAGE 3 - ELEVATION

LOOKING WEST
(DURING B-67-317 STAGE 3 CONSTRUCTION)



T.S. WALL 03



T.S. WALL 04

STAGE 3 - ELEVATION

LOOKING WEST
(AFTER B-67-317 STAGE 3 CONSTRUCTION)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SHORING DETAILS - WALL ELEVATIONS	SHEET 53	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021603_cm_elev.dgn
PLOT DATE : 5/30/2013 4:57:28 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) PLOT NAME : PLOT SCALE : 40.0000 sf / IN.
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL

2

2

N

POOL

PERKINS RD.

S. STH 83

STH 83

613+00

614+00

615+00

616+00

617+00

618+00

BEGIN PROJECT
STA 615+00

+00.0
16.0' LT

+54.2
78.5' LT

REMOVING ASPHALTIC SURFACE MILLING 2"
OVERLAY WITH HMA PAVEMENT TYPE E-3 2"

S-R STH 83

+00.0
16.0' RT

+18.4
16.0' RT

+75.0
19.5' RT

+16.8
28.0' RT

MATCH EXISTING
PIPE TO REMAIN

RUINS

RUINS

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 54	E

2

PERKINS RD.

PERKINS RD.

N

REMOVING ASPHALTIC SURFACE MILLING 2"
OVERLAY WITH HMA PAVEMENT TYPE E-3 2"

GRAVEL

+54.2
78.5'LT

+77.4
78.5'LT

+40.0
17.0'LT

+00.0
12.0'LT

S-R STH 83

622+00

623+00

624+00

621+00

620+00

619+00

618+00

STH 83

+70.0
50.6'LT

+79.3
48.4'LT

+66.8
28.0'RT

+41.8
17.0'RT

+78.7
46.3'RT

+90.2
46.3'RT

+66.8
12.0'RT

+75.3
49.0'RT

+85.3
49.0'RT

ASPHALT

ASPHALT

5'

12'

16'

2'

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 55	E

2

2

N

REMOVE DRIVEWAY

REMOVE GARAGE

BEGIN CURB & GUTTER
+10.0
20.0' LT

+42.4
43.0' LT

+55.3
43.0' LT

GRAVEL

+19.3
61.5' LT

+31.6
61.5' LT

END CURB & GUTTER
+50.0
20.0' LT

+50.0
12.0' LT

624+00

625+00

626+00

627+00

628+00

629+00

630+00

S-R STH 83

STH 83

12'

12'

5'

5'

5'

5'

8

+73.8
12.0' RT

SIGN

REMOVE DRIVEWAY

GRAVEL

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 56	E

2

+56.7
132.0' LT

+74.3
125.0' LT

ASPHALT

19

+31.8
17.0' LT

+46.8
28.0' LT

STH 83, STA. 633+45.474 =
LONDON DR., STA. 50+28.610
N= 150971.612
E= 643612.747

PI 633+60.87

+93.4
28.0' LT

2'
16'
12'
12'
16'
3'
3'
3'
5'
5'

S-℄ STH 83

630+00
631+00
632+00
633+00
634+00
635+00
636+00

STH 83

8

+21.4
17.0' RT

PC 630+30.32

+76.2
28.0' RT

+75.9
28.0' RT

STH 83, STA. 632+75.89, 68.00' RT
LONDON DR., STA. 51+06.43, 56.97' RT

40' R

+02.4
17.2' RT

+52.7
12.0' RT

ASPHALT

XXX

+13.3
90.0' RT

+01.7
90.0' RT

510+00

LONDON DR.

520+00

40' R

+94.3
17.0' RT

+87.8
30.6' RT

+20.6
12.0' RT

STH 83, STA. 633+92.22, 70.35' RT
LONDON DR., STA. 50+92.55, 54.49' LT

+40.6
14.5' LT

XXX XXX

+52.7
12.0' LT

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 57	E

2

2

N

REMOVING ASPHALTIC SURFACE MILLING 2"
OVERLAY WITH HMA PAVEMENT TYPE E-3 2"

+31.8
41.0' LT

ASPHALT

+44.1
41.0' LT

+45.0
17.0' LT

+57.7
12.0' LT

S-R STH 83

+00.3
12.0' LT

+24.7
17.0' LT

636+00

637+00

638+00

639+00

640+00

641+00

642+00

STH 83

S.T.H. 83

12.

12.

5.

5.

5.

PT 636+84.09

+26.2
12.0' RT

+88.7
17.0' RT

GRAVEL

REMOVE DRIVEWAY

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 58	E

2

2

N

PIPE TO REMAIN

REMOVING ASPHALTIC SURFACE MILLING 2"
OVERLAY WITH HMA PAVEMENT, TYPE E-3 2"

+99.7
28.0' LT

+00.0
22.7' LT

+49.7
28.0' LT

S-R STH 83

2"
16"
12"
12"
16"
3"

642+00
643+00
644+00
645+00
646+00

5"
5"

+00.0
17.0' RT

MATCHLINE
STA. 646+00
P1 646+11.10

8

40' R

+55.9
28.0' RT

STH 83, STA. 644+55.87, 68.00' RT

+53.9
17.0' RT

+26.2
28.0' RT

+26.2
28.0' RT

60' R

STH 83, STA. 643+26.23, 88.00' RT

LOW AREA
WATER

XXX XXX

+90.0
142.6' RT

HARVEST VIEW DR.

+15.0
142.6' RT

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 59 E

FILE NAME : J:\projects\d2_13301883\021205_PD.DGN PLOT DATE : 01-AUG-2013 13:35 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

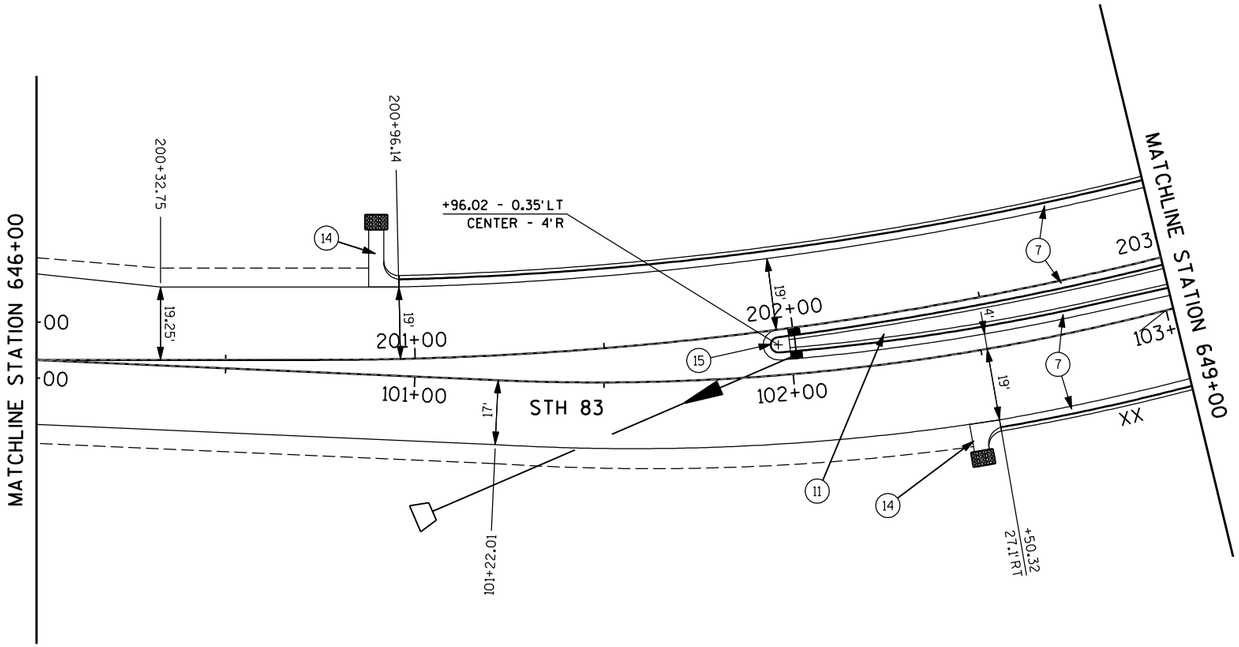
WISDOT/CADDS SHEET 42

2

LEGEND

1. CONCRETE CURB & GUTTER 18-INCH TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE MEDIAN SLOPED NOSE TYPE 2
17. CONCRETE CORRUGATED MEDIAN
18. MAINTENANCE RAMP
19. ASPHALTIC SURFACE
20. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
21. BASE AGGREGATE DENSE DRIVEWAY
22. CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

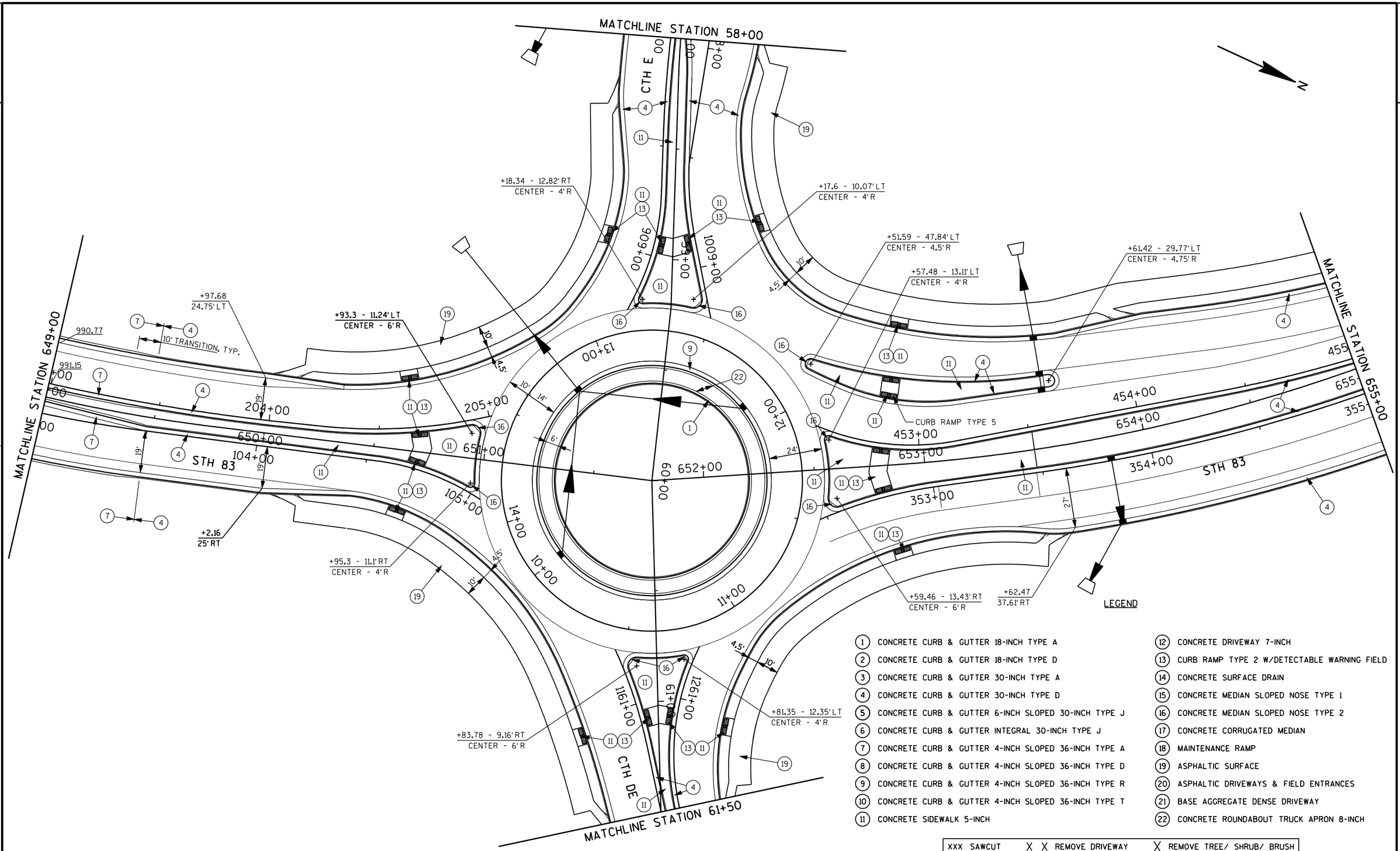
XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 60	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021206_pd.dgn PLOT DATE : 7/17/2013 3:03:25 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 40.0000 FT / IN.

2



LEGEND

1	CONCRETE CURB & GUTTER 18-INCH TYPE A	12	CONCRETE DRIVEWAY 7-INCH
2	CONCRETE CURB & GUTTER 18-INCH TYPE D	13	CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
3	CONCRETE CURB & GUTTER 30-INCH TYPE A	14	CONCRETE SURFACE DRAIN
4	CONCRETE CURB & GUTTER 30-INCH TYPE D	15	CONCRETE MEDIAN SLOPED NOSE TYPE 1
5	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J	16	CONCRETE MEDIAN SLOPED NOSE TYPE 2
6	CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	17	CONCRETE CORRUGATED MEDIAN
7	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	18	MAINTENANCE RAMP
8	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	19	ASPHALTIC SURFACE
9	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	20	ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
10	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	21	BASE AGGREGATE DENSE DRIVEWAY
11	CONCRETE SIDEWALK 5-INCH	22	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

2

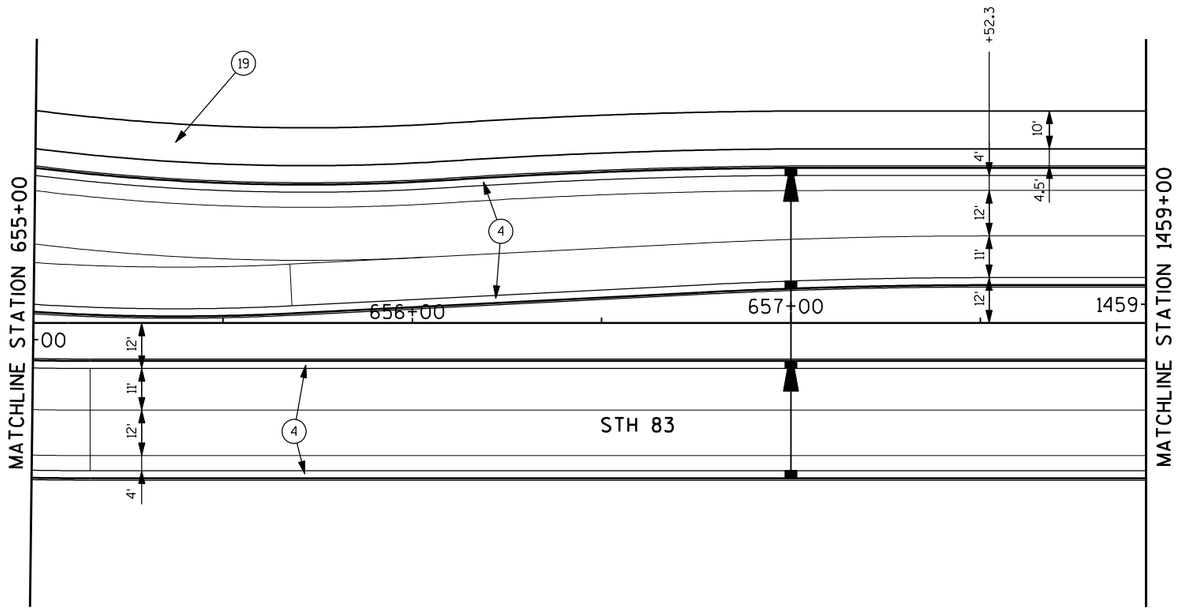
2

LEGEND

(1) CONCRETE CURB & GUTTER 18-INCH TYPE A
(2) CONCRETE CURB & GUTTER 18-INCH TYPE D
(3) CONCRETE CURB & GUTTER 30-INCH TYPE A
(4) CONCRETE CURB & GUTTER 30-INCH TYPE D
(5) CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
(6) CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
(7) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
(8) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
(9) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
(10) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
(11) CONCRETE SIDEWALK 5-INCH
(12) CONCRETE DRIVEWAY 7-INCH
(13) CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
(14) CONCRETE SURFACE DRAIN
(15) CONCRETE MEDIAN SLOPED NOSE TYPE 1
(16) CONCRETE MEDIAN SLOPED NOSE TYPE 2
(17) CONCRETE CORRUGATED MEDIAN
(18) MAINTENANCE RAMP
(19) ASPHALTIC SURFACE
(20) ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
(21) BASE AGGREGATE DENSE DRIVEWAY
(22) CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

N



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 62	E

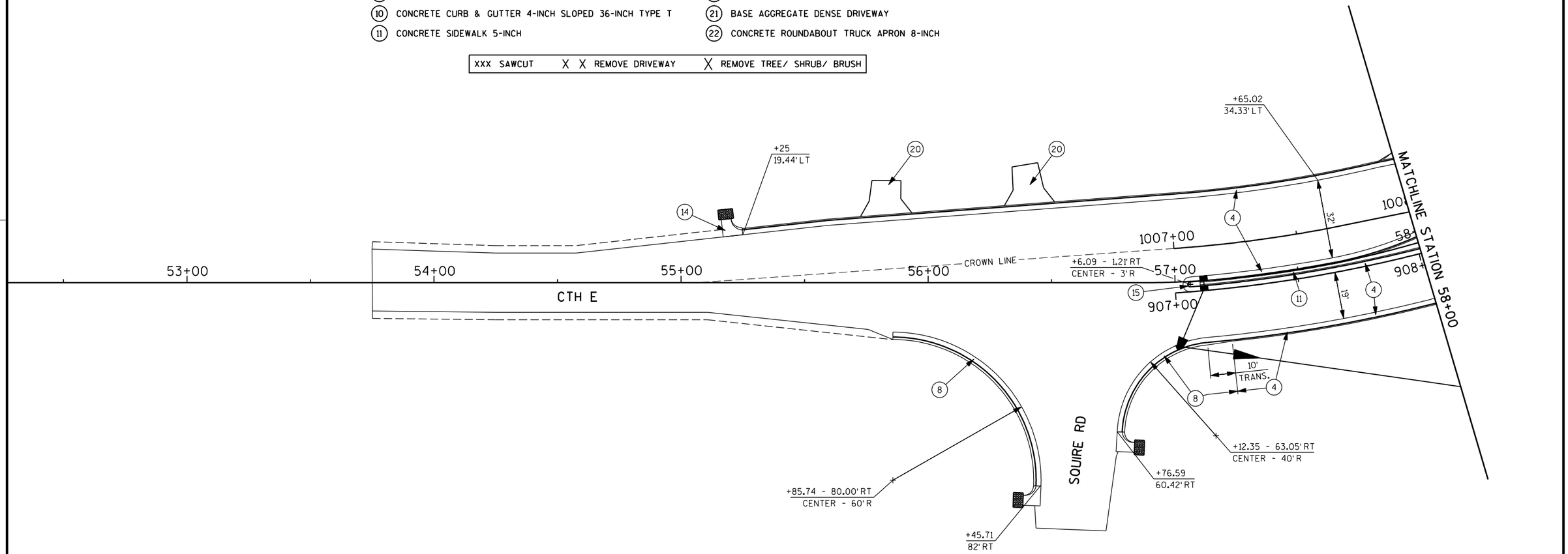
FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021208_pd.dgn PLOT DATE : 7/17/2013 3:06:13 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 40.0000 FT / IN.
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL

2

LEGEND

(1) CONCRETE CURB & GUTTER 18-INCH TYPE A	(12) CONCRETE DRIVEWAY 7-INCH
(2) CONCRETE CURB & GUTTER 18-INCH TYPE D	(13) CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
(3) CONCRETE CURB & GUTTER 30-INCH TYPE A	(14) CONCRETE SURFACE DRAIN
(4) CONCRETE CURB & GUTTER 30-INCH TYPE D	(15) CONCRETE MEDIAN SLOPED NOSE TYPE 1
(5) CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J	(16) CONCRETE MEDIAN SLOPED NOSE TYPE 2
(6) CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	(17) CONCRETE CORRUGATED MEDIAN
(7) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	(18) MAINTENANCE RAMP
(8) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	(19) ASPHALTIC SURFACE
(9) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	(20) ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
(10) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	(21) BASE AGGREGATE DENSE DRIVEWAY
(11) CONCRETE SIDEWALK 5-INCH	(22) CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

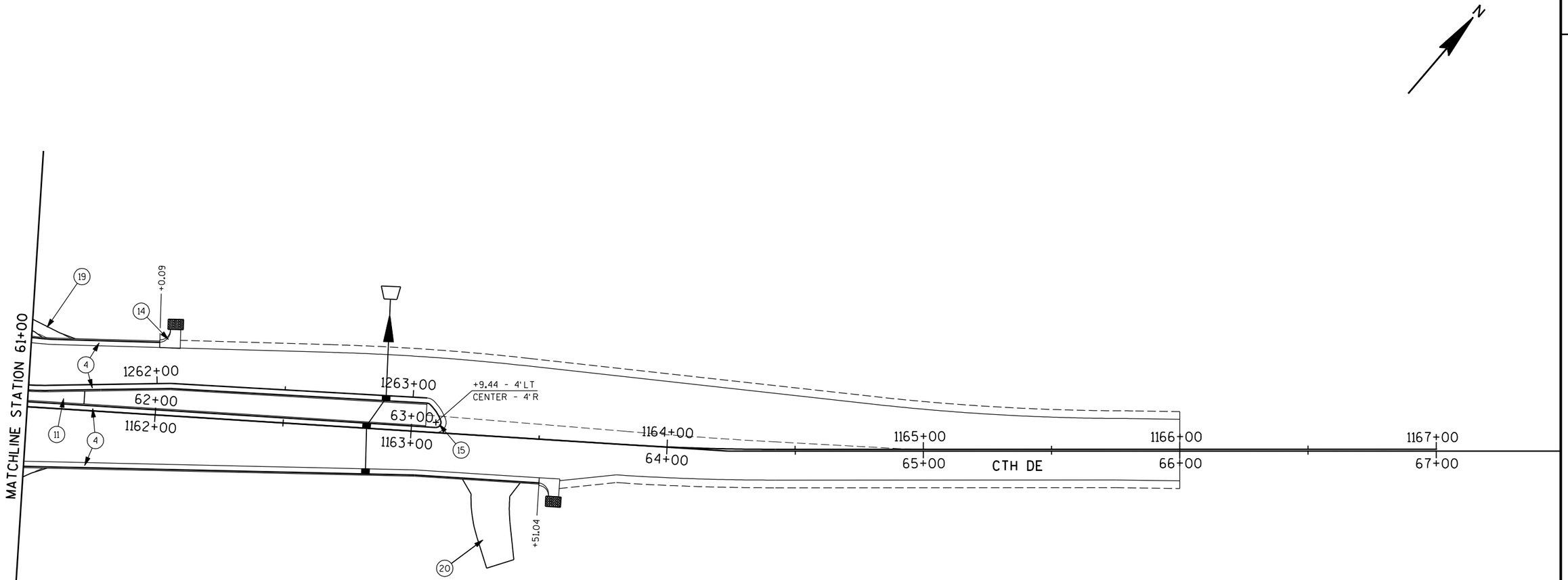
XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 63	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021209_pd.dgn PLOT DATE : 7/17/2013 3:06:40 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 40.0000 FT / IN.
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL

2

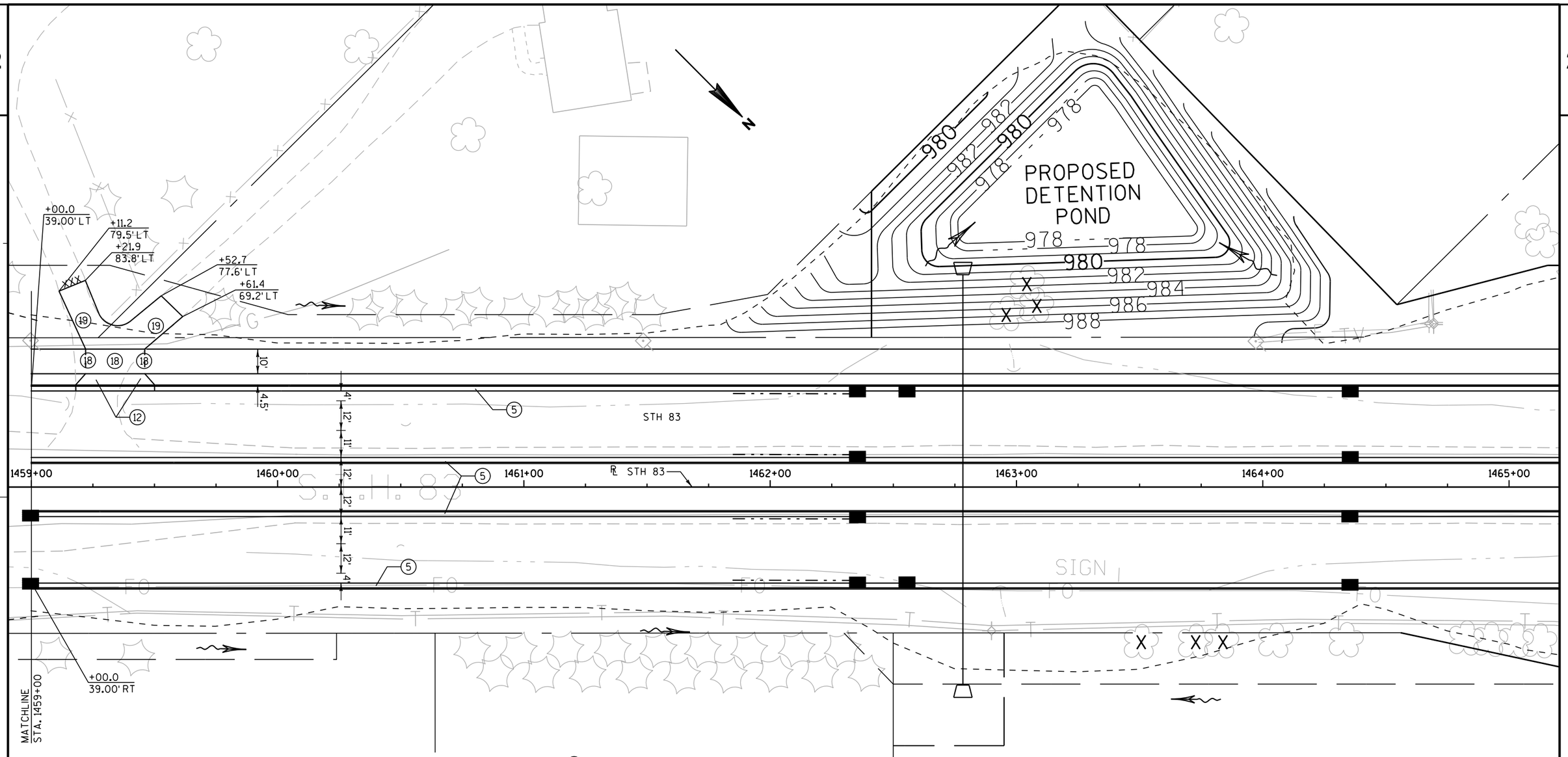


LEGEND

(1)	CONCRETE CURB & GUTTER 18-INCH TYPE A	(12)	CONCRETE DRIVEWAY 7-INCH
(2)	CONCRETE CURB & GUTTER 18-INCH TYPE D	(13)	CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
(3)	CONCRETE CURB & GUTTER 30-INCH TYPE A	(14)	CONCRETE SURFACE DRAIN
(4)	CONCRETE CURB & GUTTER 30-INCH TYPE D	(15)	CONCRETE MEDIAN SLOPED NOSE TYPE 1
(5)	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J	(16)	CONCRETE MEDIAN SLOPED NOSE TYPE 2
(6)	CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	(17)	CONCRETE CORRUGATED MEDIAN
(7)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	(18)	MAINTENANCE RAMP
(8)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	(19)	ASPHALTIC SURFACE
(9)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	(20)	ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
(10)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	(21)	BASE AGGREGATE DENSE DRIVEWAY
(11)	CONCRETE SIDEWALK 5-INCH	(22)	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

2



LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 65	E

2

N

PROPOSED SHALLOW DETENTION POND

996
996
996
1000

STH 83

1465+00 PC 1465+93.50 PT

1466+00

1467+00

1468+00

1469+00

1470+00

1471+00

10'
4'
4.5'
12'
11'
12'
12'
11'
12'
4'

+47.6
43.4' RT

+00.0
41.4' RT

+40.2
12.0' RT

CURB CUT
(SEE CONSTRUCTION DETAIL)

REMOVE DRIVEWAY

MGS GUARDRAIL

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 66	E

2

+00.0
MATCH EXIST.

PT 48+49.97

+75.0
13.0' RT

+50.0
13.0' LT

+62.4
28.5' LT

+79.8
30.0' LT

STH 83, STA. 1473+83.33, 69.00' LT
PORTHAMEL CT., STA. 49+24.32, 45.10' RT

+25.5
15.1' RT

+82.3
56.0' LT

+83.3
39.0' LT

+87.3
12.0' LT

+89.22
2.0' LT

+40.15
41.4' RT

PORTHAMEL CT.

49+00

+24.3
15.1' LT

STH 83, STA. 1474+73.56, 69.00 LT
PORTHAMEL CT., STA. 49+23.03, 45.11 LT

+74.5
56.0' LT

+65.4
12.0' LT

+73.5
39.0' LT

+50.9
10.2' LT

+50.9
5.0' LT

+01.8
10.2' LT

+01.8
3.8' LT

PT 49+88.69

+87.3
2.0' LT

PT 1473+23.94

STH 83

+47.6
12.0' LT

+92.8
12.0' RT

+91.4
6.3' RT

+76.9
12.0' RT

+91.4
10.2' RT

+67.6
68.0' LT

GRAVEL

+89.2
68.0' LT

+04.0
2.0' RT

+85.1
5.0' RT

+85.1
10.2' RT

+99.7
12.0' RT

+92.3
39.0' RT

+06.0
56.0' RT

+88.1
39.0' RT

+74.1
48.6' RT

+71.6
55.0' RT

+98.5
107.6' RT

+70.2
108.0' RT

STH 83, STA. 1474+27.460 =
PORTHAMEL CT., STA. 49+92.69
N= 154511.906
E= 642374.699

1471+00
1472+00
1473+00
1474+00
1475+00
1476+00
1477+00

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

5" (19)
(20)

SECTION A-A

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 67	E

FILE NAME : J:\projects\d2_13301883\021213_PD.DGN PLOT DATE : 01-AUG-2013 13:38 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

+00.0 BUTT JOINT
46+00
+00.0 BUTT JOINT
CTH G
+50.0 EXIST.
+50.0 EXIST.
XXX XXX
12'
3'
3'
47+00
MATCHLINE STA. 47+25

N

REMOVE SHED
POOL
+97.6 86.0' LT
GRAVEL
+08.8 85.0' LT
+30.0 56.0' LT
+50.0 58.0' LT
RETAINING WALL SEE CONSTRUCTION DETAIL
BASE AGGREGATE DENSE ¾-INCH
+98.0 58.0' LT
+18.0 56.0' LT
+26.4 56.0' LT
+78.7 58.6' LT
STH 83, STA. 1481+77.91, 85.90' LT
CTH G, STA. 48+88.19, 77.70' RT
45° R
+49.1 24.0' RT
+50.0 137.6' RT
ASPHALT
+60.3 140.2' RT
+97.0 33.6' RT
REMOVE DRIVEWAY
MATCHLINE STA. 47+25
CTH G
12' 12' 12'
+79.2 12.0' LT
48+00
+95.7 24.2' LT
49+00
+79.6 40.9' LT
+18.0 12.0' LT
+32.5 10.2' LT
+92.6 10.2' LT
60° R
+32.5 3.8' LT
+92.6 4.8' LT
STH 83
+50.0 12.0' LT
+50.5 2.0' LT
+19.6 0.2' RT
+00.8 5.0' RT
+00.8 10.2' RT
+15.2 10.6' RT
+22.8 5.0' RT
+22.8 10.2' RT
+08.3 12.0' RT
+04.0 2.0' RT
+99.7 12.0' RT
+88.1 39.0' RT
1477+00
1478+00
1479+00
1480+00
1481+00
1482+00
1483+00
+18.0 2.0' LT
+49+80.71
CURB CUT (SEE CONSTRUCTION DETAIL)
+87.6 43.4' RT
MGS GUARDRAIL
+39.6 41.4' RT
BASE AGGREGATE OPEN GRADED
TLE
+70.0 39.0' RT
+70.0 48.0' RT
CONCRETE BARRIER SINGLE FACE 32-INCH
RETAINING WALL R-67-104
STH 83, STA. 1482+62.872 = CTH G, STA. 49+80.708
N= 155347.314
E= 642372.308
FIRESTATION
+36.6 87.0' RT
+66.0 94.8' RT
S.T.H. 83

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 68 E

2

STH 83, STA. 1483+24.34, 95.00' LT
CTH G, STA. 48+91.01, 68.98' LT

LOW AREA

45' R

+24.34
50.00' LT

+01.94
49.55' LT

+88.47
33.62' LT

+91.12
72.19' LT

GRAVEL

+33.13
74.83' LT

+25.93
74.20' LT

GRAVEL

+39.43
74.20' LT

GRAVE STONE

PI 1484+63.20

+07.1
12.0' LT

+42.2
12.0' LT

STH 83

+75.3
9.6' LT

+04.5
1.8' LT

1483+00

1484+00

1485+00

1486+00

1487+00

1488+00

1489+00

60' R

+34.3
12.0' RT

BASE AGGREGATE
OPEN GRADED

1483+79.82

STH 83

+75.3
12.0' RT

PI 1485+81.13

+88.77
39.00' RT

+04.5
4.2' RT

50+00

+88.0
4.7' RT

+03.3
2.7' RT

+88.0
10.3' RT

+03.3
12.0' RT

+14.36
39.00' LT

PI 1487+46.25

+25.00

TLE

RETAINING WALL
R-67-104

+25.00
48.00' RT

+75.12
41.42' RT

CONCRETE BARRIER
SINGLE FACE 32-INCH

STH 83, STA. 1486+04.308 =
BRANDYBROOK RD., STA. 49+81.130
N= 155688.615
E= 642378.527

STH 83, STA. 1485+88.77, 99.00' RT
BRANDYBROOK RD., STA. 50+59.52, 62.37' RT

35' R

82' R

51+00

STH 83, STA. 1487+14.36, 74.00' RT
BRANDYBROOK RD., STA. 51+00.38, 55.76' LT

PROPOSED DETENTION POND

+79.33
5.74' RT

+21.58
16.00' LT

+88.63
22.79' LT

+30.27
16.00' LT

EMERGENCY SP

+40.50
EXIST.

E. BRANDYBROOK RD.

52+00

JERUSALEM CEMETERY

987 988

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT | X X REMOVE DRIVEWAY | X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 69 E

2

SALEM CEMETERY

N

AVE
ONE

SIGN

1489+00

1490+00

+19.0
2.8' RT

PC 1490+54.04

1492+00

1493+00

1494+00

1495+00

PC 1495+09.47

+78.7
12.0' LT

+93.3
10.2' LT

60' R

+57.9
0.0' RT

+73.2
12.0' RT

+73.3
0.0' RT

+93.3
3.3' LT

PI 1492+81.91

STH 83

5'
12'
11'
8'
4'

988 989 990 990.5 992

POND

987 988 989 990 992 994

PROPOSED DETENTION POND

GENCY SPILLWAY

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 70	E

SALEM CEMETERY

N

+05.3
77.5' LT

+19.3
77.5' LT

GRAVEL

+90.2
69.5' LT

+78.2
69.5' LT

GRAVEL

STH 83, STA. 1500+28.027 =
S. WELSH RD., STA. 50+33.955
N= 157109.328
E= 642445.242

STH 83, STA. 1499+83.50, 68.00' LT
S. WELSH RD., STA. 49+66.29, 45.03' RT

+17.6
EXIST.
+27.6
13.0' RT

S. WELSH RD.

49+00

+17.6
EXIST.
+27.6
10.9' LT

STH 83,
STA. 1500+73.73,
69.00' LT
S. WELSH RD.,
STA. 49+64.61,
45.18' LT

+67.9
15.0' LT

+67.7
15.0' RT

30' R

+83.5
38.0' LT

+73.71
39.0' LT

50+00

PC 1495+09.47

+28.5
10.4' LT

+43.0
12.0' LT

60' R

1495+00

1496+00

PC 1496+89.91

5'
12'
11'
12'
12'
11'
12'
4'

1497+00

1498+00

R STH 83

1499+00

PT 1499+15.29

+77.1
12.0' LT

+91.7
10.2' LT

+44.7
3.8' RT

+59.2
2.0' RT

1500+00

PC 1500+33.96

60' R

+91.7
3.8' LT

+77.1
2.0' LT

+44.7
10.2' RT

+59.2
12.0' RT

1501+00

+28.5
6.5' LT

+71.8
12.0' RT

+77.1
12.0' RT

STH 83

+77.1
2.0' LT

PT 1498+04.61

+67.4
39.0' RT

PC 50+60.16

+57.6
39.0' RT

51+00

30' R

+00.4
15.0' RT

+11.1
15.0' LT

+24.5
EXIST.

STH 83,
STA. 1500+57.65,
69.00' RT
E. WELSH RD.,
STA. 51+07.32,
45.00' LT

STH 83, STA. 1499+67.39, 69.00' RT
E. WELSH RD., STA. 51+00.46, 45.00' RT

+24.5
EXIST.

STH 83, STA. 1500+12.455 =
E. WELSH RD., STA. 50+34.457
N= 157093.761
E= 642445.585

E. WELSH RD.

52+00

ASPHALT

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 71	E

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

N

+72.0 63.7' LT
GRAVEL
+82.3 63.7' LT
+15.0 58.0' LT
+15.0 56.0' LT
BASE AGGREGATE DENSE ¾-INCH
RETAINING WALL R-67-102
+59.2 12.0' RT
STH 83
S.T.H. 83
+59.2 2.0' RT
1501+00
1502+00
1503+00
1504+00
1505+00
1506+00
1507+00
℄ STH 83
+40.0 52.0' RT
+10.0 52.0' RT
+10.0 50.0' RT
RETAINING WALL R-67-103
CONCRETE BARRIER SINGLE FACE 32-INCH
LOW AREA

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 72	E

FILE NAME : J:\projects\d2_13301883\021218_PD.DGN PLOT DATE : 01-AUG-2013 13:38 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

N

EXISTING PRIVATE DETENTION POND

BLDG

STH 83, STA. 1510+31.18, 69.00'LT
BENTON CT., STA. 49+31.00, 45.00'RT

STH 83, STA. 1511+21.00, 69.00'LT
BENTON CT., STA. 49+31.00, 45.00'LT

STH 83, STA. 1510+75.971 =
BENTON CT., STA. 50+00.000
N= 158157.065
E= 642426.263

STH 83, STA. 1510+33.69, 69.00'RT
W. SOUTH ST., STA. 50+20.40, 42.50'RT

STH 83, STA. 1511+19.16, 69.00'RT
W. SOUTH ST., STA. 50+21.14, 42.75'LT

STH 83, STA. 1510+75.783 =
W. SOUTH ST., STA. 50+01.749
N= 158156.876
E= 642426.261

BASE AGGREGATE DENSE 3/4-INCH

RETAINING WALL R-67-102

RETAINING WALL

STH 83

BENTON CT.

W. SOUTH ST.

GRAVEL

ASPHALT

PI 1509+42.63

PT 1508+27.37

PT 1510+57.87

1507+00 1508+00 1509+00 1510+00 1511+00 1512+00 1513+00

+74.5 EXIST.
+74.5 EXIST.
+48.0 126.7'LT
+57.6 128.4'LT
+32.4 15.0'RT
+32.4 15.0'LT
+75.0 58.0'LT
+75.0 56.0'LT
+31.1 39.0'LT
+21.0 39.0'LT
+31.9 12.0'LT
+46.4 10.2'LT
+46.4 3.8'LT
+31.9 2.0'LT
+07.0 2.0'LT
+20.3 2.0'RT
+05.7 3.8'RT
+05.7 10.2'RT
+20.3 12.0'RT
+60.3 2.0'RT
+02.6 12.0'RT
+07.0 12.0'RT
+33.7 39.0'RT
+19.1 39.0'RT
+93.0 50.0'RT
+68.9 EXIST.
+68.9 EXIST.
+12.4 71.0'RT
+33.7 71.0'RT

30' R
60' R

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1 1/4-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET	E

FILE NAME : J:\projects\d2_13301883\021219_PD.DGN PLOT DATE : 01-AUG-2013 13:38 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

2

N

POOL

PI 50+00.00

50+00

W.CRIGLASS RD.

+80.0
EXIST.

XXX XXX

STH 83, STA. 1515+88.026 =
W. CRIGLASS RD., STA. 52+25.972
N= 158669.100
E= 642430.723

+20.0
13.6' RT

STH 83, STA. 1515+37.75, 69.00' LT
W. CRIGLASS RD., STA. 51+58.19, 51.91' RT

51+00

+64.0
22.5' RT

+37.7
39.0' LT

+42.6
12.0' LT

+60.3
12.0' LT

STH 83

13+00

1514+00

1515+00

R STH 83

+02.6
2.0' LT

+02.6
12.0' RT

PI 52+25.97

+57.2
10.2' LT

+57.2
3.8' LT

+42.6
2.0' LT

+40.7
39.0' RT

+42.7
61.0' RT

ASPHALT

+55.3
61.0' RT

+90.4
69.0' RT

ASPHALT

+03.4
69.0' RT

+15.0
47.5' RT

+43.8
57.0' RT

+94.5
47.5' RT

RETAINING WALL
SEE CONSTRUCTION DETAIL

STH 83, STA. 1515+40.74, 69.00' RT
W. CRIGLASS RD., STA. 52+96.50, 45.00' RT

+96.5
15.0' RT

+45.0
9.7' RT

+50.0
EXIST.

52+00

W.CRIGLASS RD.

53+00

+80.0
EXIST.

+20.0
11.6' LT

STH 83, STA. 1516+34.71, 69.00' LT
W. CRIGLASS RD., STA. 51+55.87, 45.00' LT

+57.0
15.0' LT

+34.7
39.0' LT

+31.2
2.0' RT

+16.7
3.8' RT

1516+00

1517+00

1518+00

1519+00

PI 52+29.34

+16.7
10.2' RT

+31.2
12.0' RT

+81.2
12.0' LT

+81.2
2.0' RT

+73.1
2.0' LT

+73.1
12.0' RT

+30.7
39.0' RT

+07.5
39.0' RT

REMOVE DRIVEWAY

+96.5
15.0' LT

STH 83, STA. 1516+30.79, 69.00' RT
W. CRIGLASS RD., STA. 52+93.51, 45.00' LT

+16.9
10.3' LT

+50.0
EXIST.

GRAVEL

SEPTIC

LEGEND

(1) CONCRETE CURB TYPE A	(11) CONCRETE SIDEWALK 5-INCH
(2) CONCRETE CURB & GUTTER 18-INCH TYPE D	(12) CONCRETE DRIVEWAY 7-INCH
(3) CONCRETE CURB & GUTTER 30-INCH TYPE A	(13) CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
(4) CONCRETE CURB & GUTTER 30-INCH TYPE D	(14) CONCRETE SURFACE DRAIN
(5) CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J	(15) CONCRETE MEDIAN SLOPED NOSE TYPE 1
(6) CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	(16) CONCRETE CORRIGATED MEDIAN
(7) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	(17) MAINTENANCE RAMP
(8) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	(18) ASPHALTIC SURFACE
(9) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	(19) ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
(10) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	(20) BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

* SEE CONSTRUCTION DETAILS

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 74 E

2

STH 83, STA. 1519+82.742 =
CTH G, STA. 49+92.690
N= 159063.801
E= 642434.160

PROPOSED DETENTION POND

987 988 989 990 991 992

STH 83

PI 49+92.69

STH 83, STA. 1520+47.51, 79.00' RT
CTH G, STA. 50+72.28, 64.00' LT

STH 83, STA. 1519+07.57, 99.00' RT
CTH G, STA. 50+91.81, 75.00' RT

W. MAIN ST.

CTH G

GRAVEL

REMOVE DRIVEWAY

ASPHALT

ANT.

SIGN

+10.5 EXIST.	+01.3 EXIST.	+56.1 49.0' LT	+07.8 49.0' LT
+65.5 49.4' LT	+57.1 39.0' LT	+97.8 48.6' LT	+06.8 39.0' LT
+23.1 12.0' LT	+37.6 10.2' LT	+23.1 2.0' LT	+37.6 3.8' LT
+28.0 3.8' RT	+42.5 2.0' RT	+28.0 10.2' RT	+42.5 12.0' RT
+42.5 12.0' LT	+42.5 2.0' RT	+84.1 12.0' RT	+47.5 39.0' RT
+68.6 61.5' RT	+79.0 62.8' RT	+72.2 24.0' LT	+91.8 15.0' RT
+04.1 50.7' RT	+36.4 57.3' RT	+68.8 24.0' RT	+79.5 24.0' RT
+00.6 15.0' RT	+60.1 24.0' LT	+71.8 30.6' LT	+98.5 29.0' LT
+50.0 EXIST.	+50.0 EXIST.	+74.5 97.4' LT	+88.0 94.2' LT
+11.8 83.5' RT	+99.7 83.5' RT	+24.4 133.0' RT	+58.3 133.0' RT

1520+00 1521+00 1522+00 1523+00 1524+00 1525+00 50+00 51+00 52+00

60' R 40' R 10' R 15'

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 75	E

FILE NAME : J:\projects\d2_13301883\021221_PD.DGN PLOT DATE : 01-AUG-2013 13:38 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

N

STH 83, STA. 1527+32.36, 69.00'LT
CYMRIC CT., STA. 49+24.73, 47.56'RT

STH 83, STA. 1528+22.36, 69.00'LT
CYMRIC CT., STA. 49+24.86, 42.44'LT

CYMRIC CT.

PT 48+52.12

48+00

49+00

+75.0 EXIST.

+24.7 17.5'RT

+93.8 12.2'LT

+24.8 12.5'LT

30' R

60' R

BASE AGGREGATE DENSE ¾-INCH

RETAINING WALL SEE CONSTRUCTION DETAIL

+12.0 58.0'LT

+85.0 58.0'LT

+05.0 56.0'LT

+32.3 39.0'LT

+34.1 12.0'LT

+48.6 10.2'LT

+48.6 3.8'LT

PT 49+93.81

+22.3 39.0'LT

STH 83

1526+00

1527+00

1528+00

1529+00

1530+00

1531+00

+84.1 2.0'LT

℄ STH 83

+38.9 1.0'RT

+27.1 2.1'RT

+27.1 10.8'RT

+38.9 12.0'RT

+75.5 1.0'RT

+75.5 12.0'LT

+70.5

PAV'T TIES (REQUIRED)

+65.0

ASPHALT

+67.4 62.0'RT

+65.1 49.5'RT

+06.8 49.5'RT

+85.7 49.5'RT

+26.6 62.0'RT

+52.1 86.8'RT

+62.1 86.8'RT

+52.1 112.7'RT

+61.1 112.7'RT

GRAVEL

FILLER CAPS

SIGN

MATCHLINE STA. 1531+50

STH 83, STA. 1527+80.023 =
CYMRIC CT., STA. 49+93.807
N= 159860.920
E= 642450.188

REMOVE CURB HEAD FOR DRIVEWAY

SECTION B-B

STA 1528+65.0 TO STA 1529+70.5

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 76	E

2

SEE CONSTRUCTION DETAILS FOR CURB AND GUTTER TRANSITIONS AT BARRIER WALL, TYP.

MATCHLINE STATION 1531+50

LEGEND

1. CONCRETE CURB & GUTTER 18-INCH TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE MEDIAN SLOPED NOSE TYPE 2
17. CONCRETE CORRUGATED MEDIAN
18. MAINTENANCE RAMP
19. ASPHALTIC SURFACE
20. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
21. BASE AGGREGATE DENSE DRIVEWAY
22. CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

N

1008.47
1008.73
1007.84
1008.16
1007.82
1009.10
1009.64
1009.56
1009.82
1010.20
1010.04
1009.08
1009.28
1008.96
1007.96
1008.16
1007.84
28'
22'
1532+00
1533+00

+16 - 99'LT
CENTER - 60'R
+14.35 - 99'LT
CENTER - 76'R
+81.13 - 99'LT
CENTER - 60'R
+21.61 - 82'LT
CENTER - 80'R
+71.93 - 44.91'LT
CENTER - 3'R
+66.99 - 8.03'LT
CENTER - 3'R
+90.1 - 46.82'LT
CENTER - 3'R
+19.28 - 4.00'LT
CENTER - 6'R
+52.05 - 5.61'LT
CENTER - 4'R
+7.54 - 6.00'RT
CENTER - 4'R
+39.78 - 4.10'RT
CENTER - 6'R
+76.62 - 8.62'RT
CENTER - 3'R

STH 83

+90 - 11'RT
BEGIN TAPER
+00 - 2'LT
END TAPER

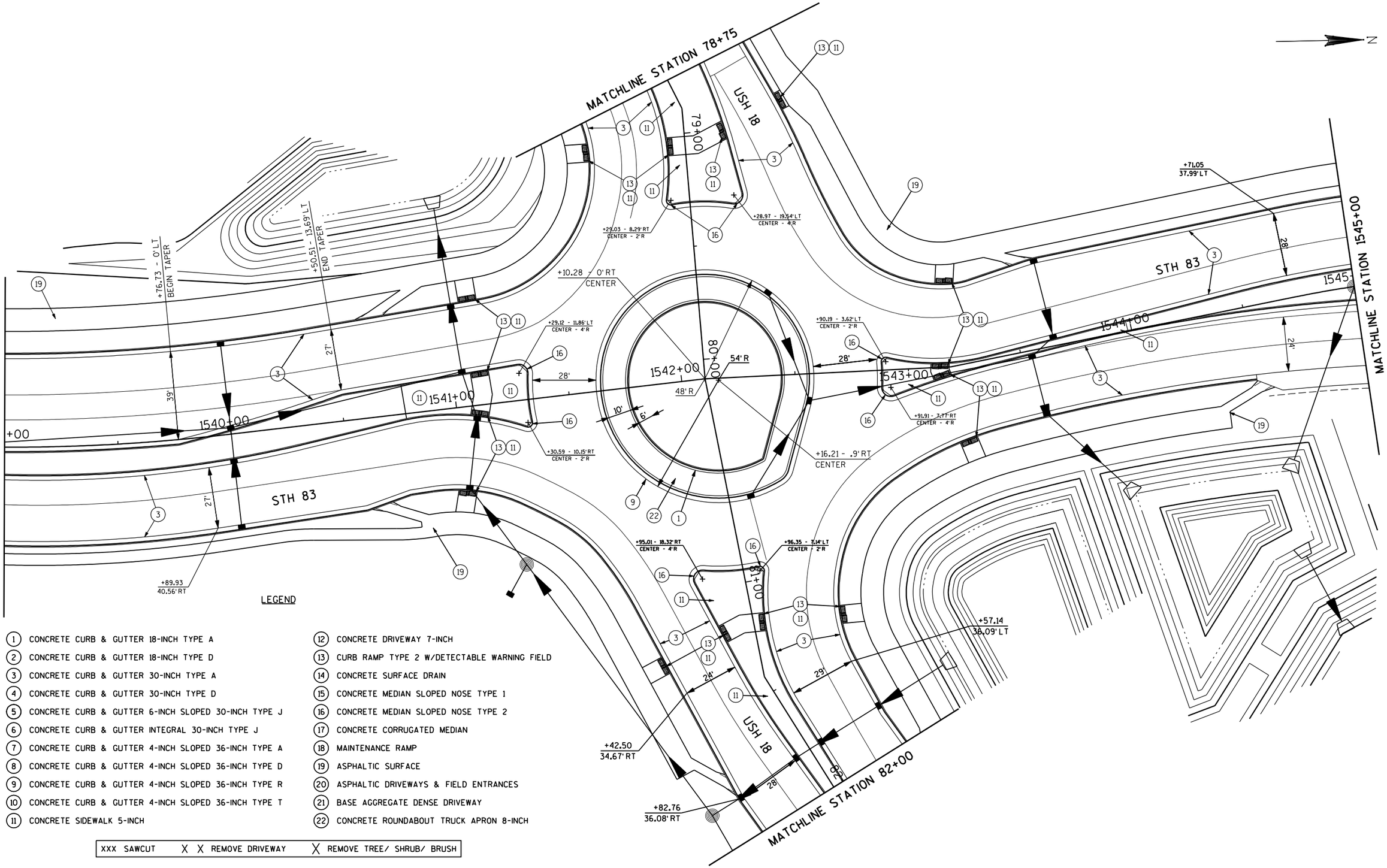
1534+00
1535+00
1536+00
1537+00
1538+00
1539

MATCHLINE STATION 1539+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 77	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021223_pd.dgn
PLOT DATE : 7/17/2013 3:07:43 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2



LEGEND

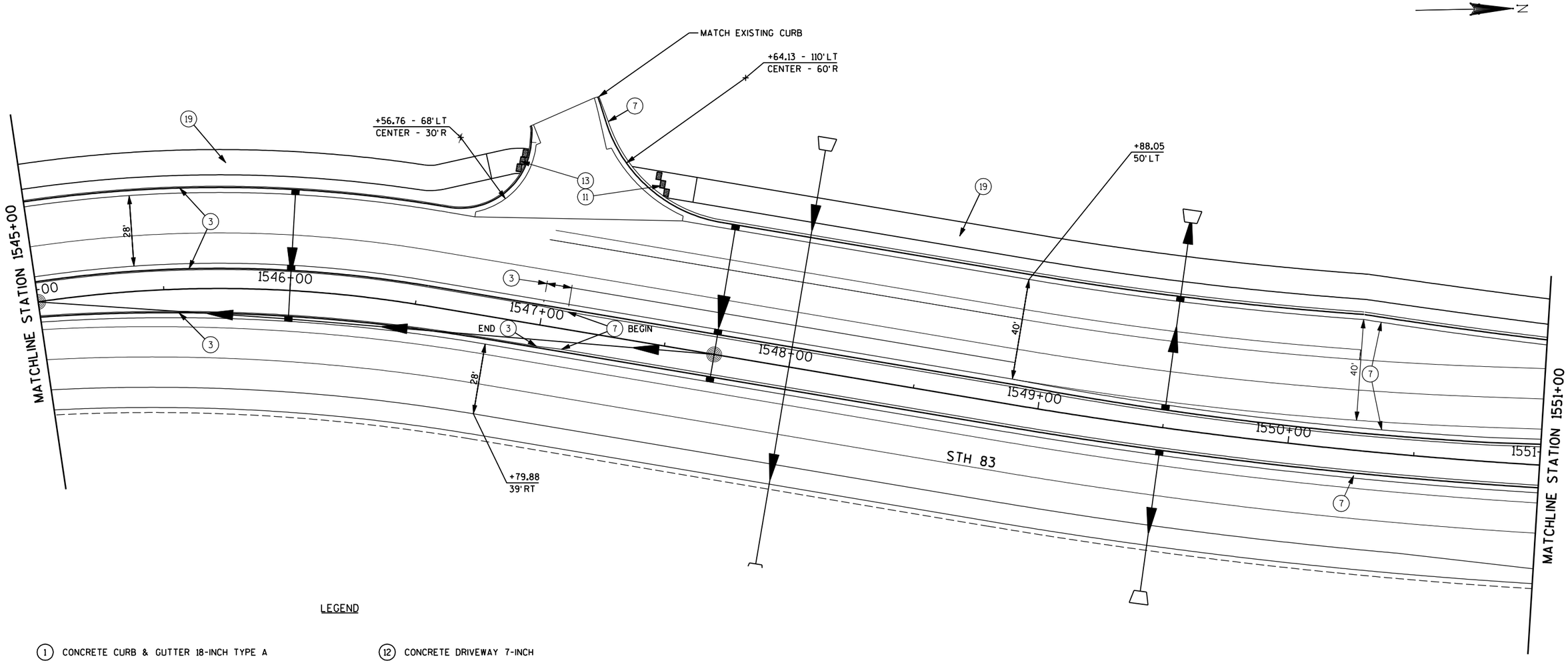
(1) CONCRETE CURB & GUTTER 18-INCH TYPE A	(12) CONCRETE DRIVEWAY 7-INCH
(2) CONCRETE CURB & GUTTER 18-INCH TYPE D	(13) CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
(3) CONCRETE CURB & GUTTER 30-INCH TYPE A	(14) CONCRETE SURFACE DRAIN
(4) CONCRETE CURB & GUTTER 30-INCH TYPE D	(15) CONCRETE MEDIAN SLOPED NOSE TYPE 1
(5) CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J	(16) CONCRETE MEDIAN SLOPED NOSE TYPE 2
(6) CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	(17) CONCRETE CORRUGATED MEDIAN
(7) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	(18) MAINTENANCE RAMP
(8) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	(19) ASPHALTIC SURFACE
(9) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	(20) ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
(10) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	(21) BASE AGGREGATE DENSE DRIVEWAY
(11) CONCRETE SIDEWALK 5-INCH	(22) CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 78	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021224_pd.dgn PLOT DATE : 7/17/2013 3:09:27 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 40.0000 FT / IN.

2



LEGEND

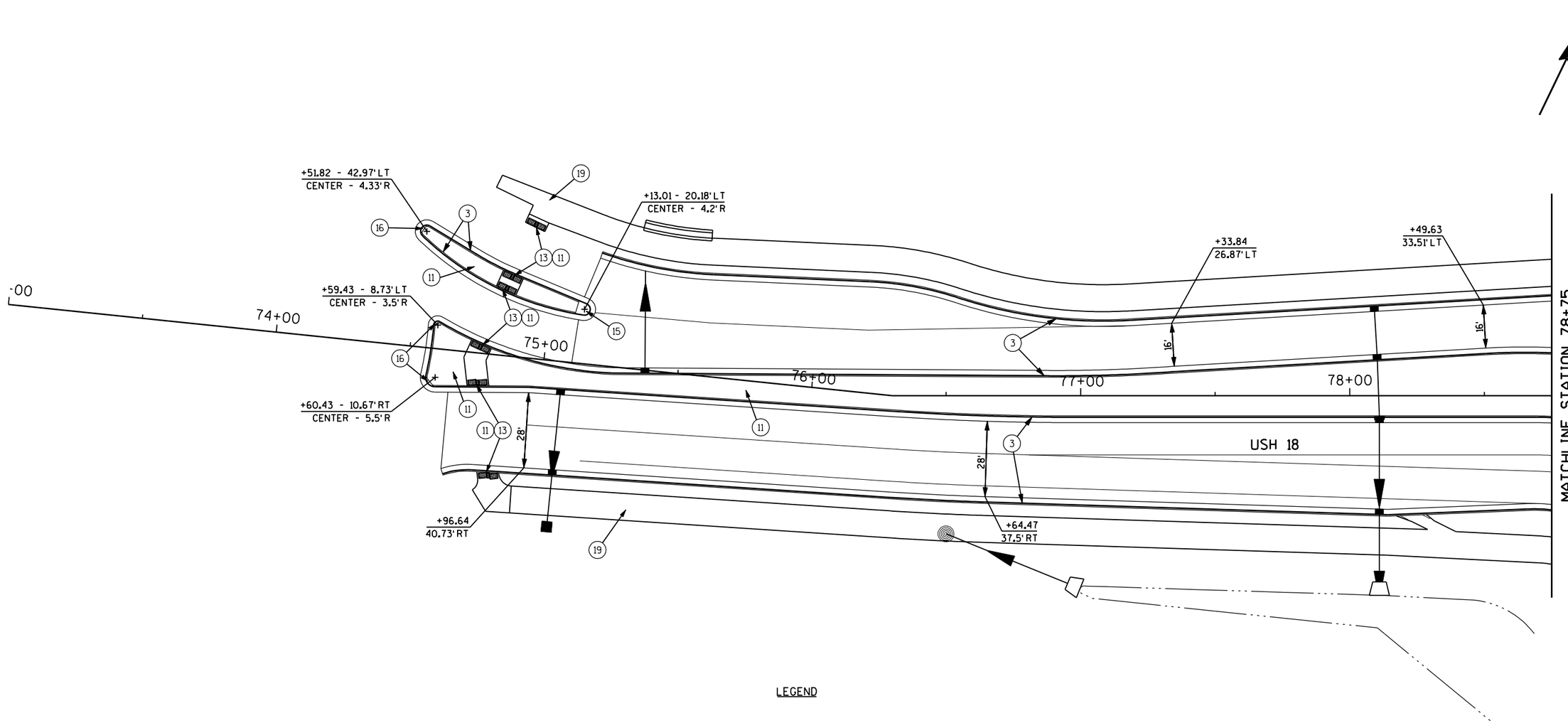
(1)	CONCRETE CURB & GUTTER 18-INCH TYPE A	(12)	CONCRETE DRIVEWAY 7-INCH
(2)	CONCRETE CURB & GUTTER 18-INCH TYPE D	(13)	CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
(3)	CONCRETE CURB & GUTTER 30-INCH TYPE A	(14)	CONCRETE SURFACE DRAIN
(4)	CONCRETE CURB & GUTTER 30-INCH TYPE D	(15)	CONCRETE MEDIAN SLOPED NOSE TYPE 1
(5)	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J	(16)	CONCRETE MEDIAN SLOPED NOSE TYPE 2
(6)	CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	(17)	CONCRETE CORRUGATED MEDIAN
(7)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	(18)	MAINTENANCE RAMP
(8)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	(19)	ASPHALTIC SURFACE
(9)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	(20)	ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
(10)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	(21)	BASE AGGREGATE DENSE DRIVEWAY
(11)	CONCRETE SIDEWALK 5-INCH	(22)	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 79	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021225_pd.dgn PLOT DATE : 7/17/2013 3:10:02 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 40.0000 FT / IN.
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL

2



LEGEND

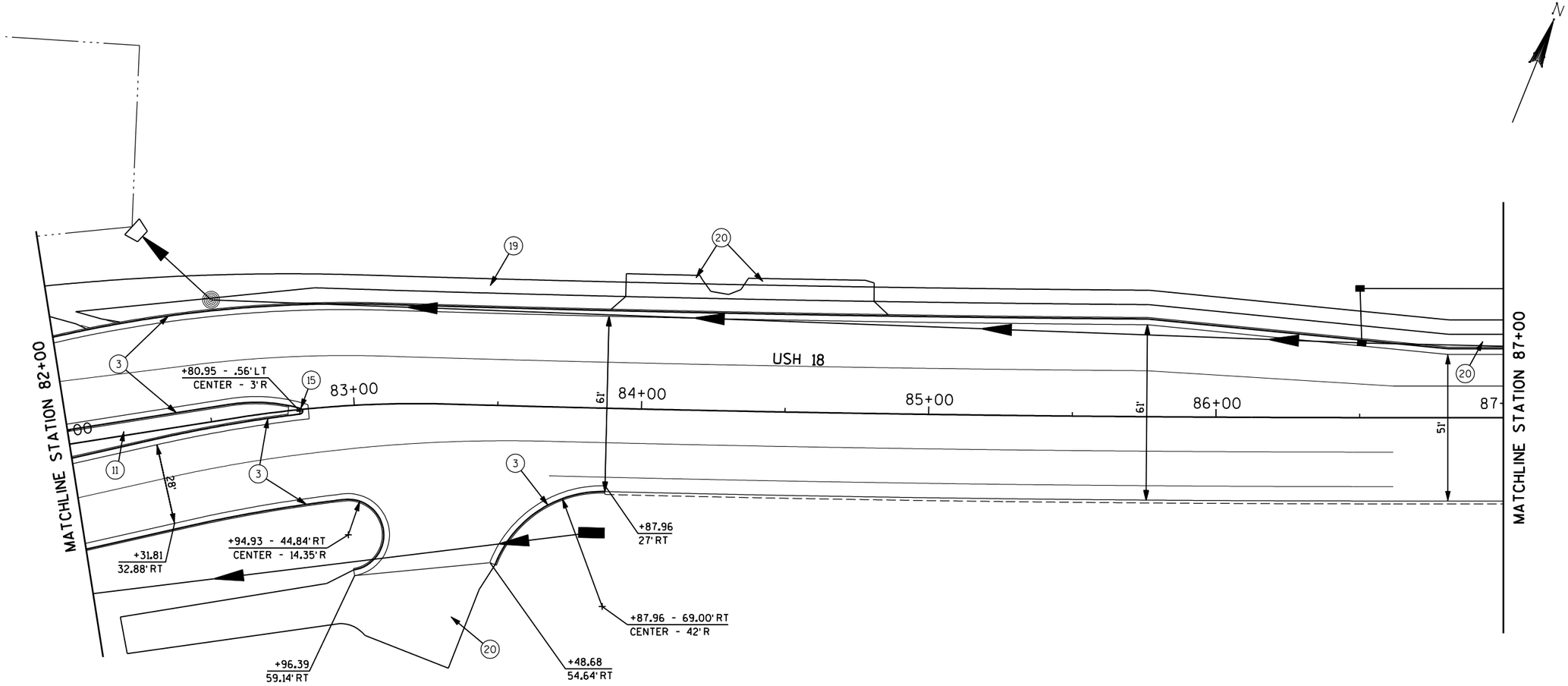
(1)	CONCRETE CURB & GUTTER 18-INCH TYPE A	(12)	CONCRETE DRIVEWAY 7-INCH
(2)	CONCRETE CURB & GUTTER 18-INCH TYPE D	(13)	CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
(3)	CONCRETE CURB & GUTTER 30-INCH TYPE A	(14)	CONCRETE SURFACE DRAIN
(4)	CONCRETE CURB & GUTTER 30-INCH TYPE D	(15)	CONCRETE MEDIAN SLOPED NOSE TYPE 1
(5)	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J	(16)	CONCRETE MEDIAN SLOPED NOSE TYPE 2
(6)	CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	(17)	CONCRETE CORRUGATED MEDIAN
(7)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	(18)	MAINTENANCE RAMP
(8)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	(19)	ASPHALTIC SURFACE
(9)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	(20)	ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
(10)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	(21)	BASE AGGREGATE DENSE DRIVEWAY
(11)	CONCRETE SIDEWALK 5-INCH	(22)	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 80	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021226_pd.dgn PLOT DATE : 7/17/2013 3:10:30 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 40.0000 FT / IN.

2

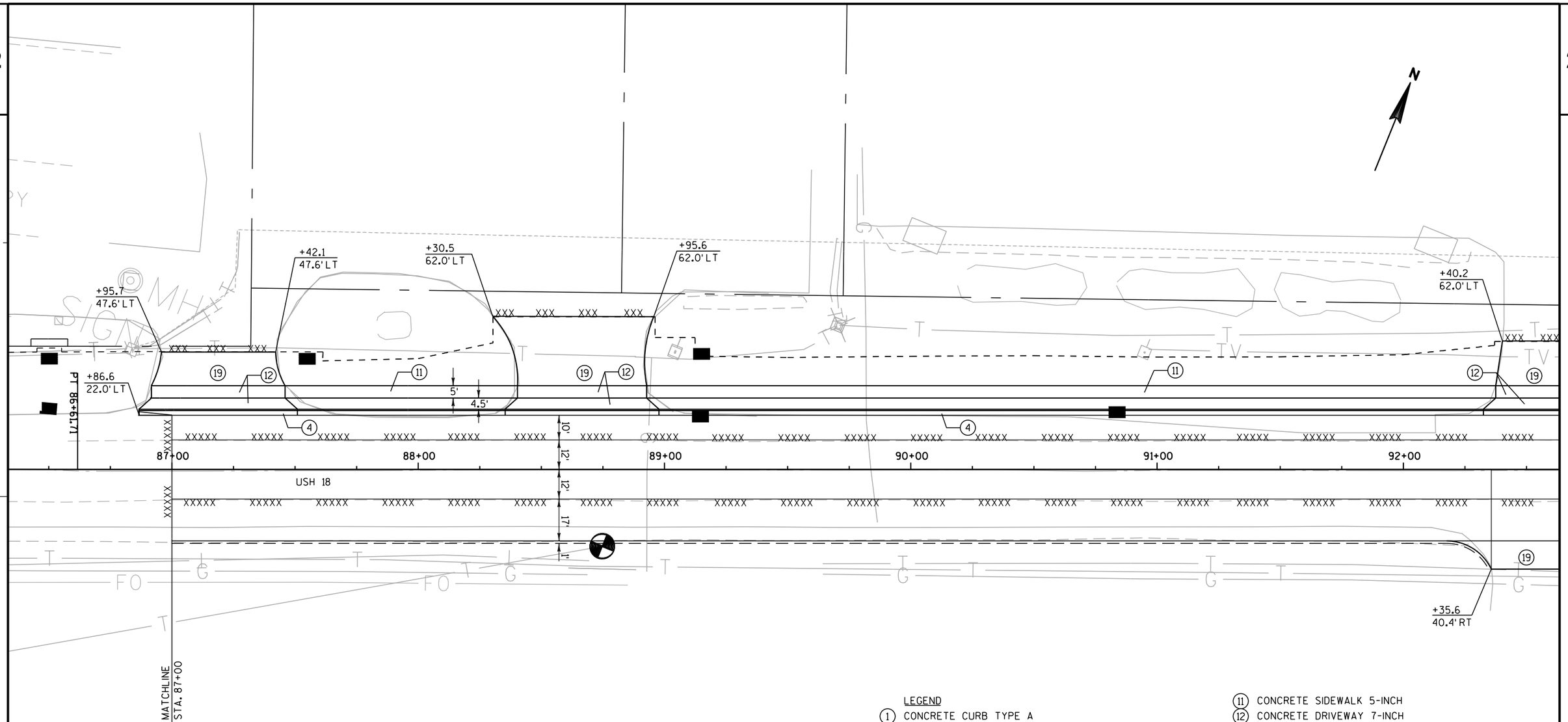


LEGEND

(1)	CONCRETE CURB & GUTTER 18-INCH TYPE A	(12)	CONCRETE DRIVEWAY 7-INCH
(2)	CONCRETE CURB & GUTTER 18-INCH TYPE D	(13)	CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
(3)	CONCRETE CURB & GUTTER 30-INCH TYPE A	(14)	CONCRETE SURFACE DRAIN
(4)	CONCRETE CURB & GUTTER 30-INCH TYPE D	(15)	CONCRETE MEDIAN SLOPED NOSE TYPE 1
(5)	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J	(16)	CONCRETE MEDIAN SLOPED NOSE TYPE 2
(6)	CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	(17)	CONCRETE CORRUGATED MEDIAN
(7)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	(18)	MAINTENANCE RAMP
(8)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	(19)	ASPHALTIC SURFACE
(9)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	(20)	ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
(10)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	(21)	BASE AGGREGATE DENSE DRIVEWAY
(11)	CONCRETE SIDEWALK 5-INCH	(22)	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

2



LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL - USH 18	SHEET 82	E

2

N

FUTURE DRIVEWAY

PROPOSED DRY POND

1000
999
998
997

22+26.96

22

OAK CREST

PC: 20+96.01

21

USH 18, STA 97+77.84,
74.00'LT
OAK CREST, STA 20+73.66,
64.00'RT

50'R

USH 18, STA 96+53.30, 70.00'LT
OAK CREST, STA 20+70.00, 61.00'LT

42.5'R

+40.2
62.0'LT

+63.8
52.0'LT

+80.8
50.9'LT

+01.8
50.9'LT

+82.3
57.0'LT

+08.4
57.0'LT

+60.6
19.5'LT

5'
4.5'

10'
12'
12'
17'
1'

3.5'
12'
12'
17'
1'

+33.4
22.0'LT

+03.9
27.5'LT

+53.3
27.5'LT

93+00
94+00
95+00
96+00
97+00
98+00

PI: 20+00.00

22

USH 18

+43.3
27.0'RT

+35.6
40.4'RT

+65.7
40.4'RT

52'R

41'R

+28.8
26.8'LT

USH 18, STA 96+43.32, 79.00'RT
OAK CREST, STA 19+28.82, 78.82'LT

USH 18, STA 97+84.32,
65.00'RT
OAK CREST, STA 19+27.34,
62.0'RT

USH 18, STA 97+14.306 =
OAK CREST, STA 20+00.000
N= 161916.416
E= 644064.908

19

OAK CREST

MATCH LINE
STA 18+64

+38.0
26.8'LT

BP: 18+37.46

+28.0
EXIST.

OAK CREST

MATCH LINE
STA 18+64

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL - USH 18	SHEET 83	E

2

STH 83, STA. 1555+55.800 =
HIGH MEADOW LN., STA. 50+40.458
N= 162622.896
E= 642551.391

PT 48+63.38

HIGH MEADOW LN.

49+00

50+00

51+00

STH 83, STA. 1555+02.45, 95.84'LT
HIGH MEADOW LN., STA. 49+42.68, 49.72'RT

STH 83, STA. 1556+31.55, 115.00'LT
HIGH MEADOW LN., STA. 49+28.37, 80.00'LT

STH 83, STA. 1554+84.28, 115.00'RT
HIGH MEADOW LN., STA. 51+58.81, 75.18'RT

STH 83, STA. 1556+16.12, 95.80'RT
HIGH MEADOW LN., STA. 51+38.44, 56.70'LT

PC 51+38.37

PT 52+29.88

PI 51+84.65

MATCHLINE
STA. 1551+11.80'

PT 1551+55.57

STH 83

STH 83

1551+00
1552+00
1553+00
1554+00
1555+00
1556+00
1557+00

+11.8
47.0'LT

+50.5
47.0'LT

+08.7
56.3'LT

+14.0
EXIST.

+31.0
9.7'RT

+41.8
9.7'RT

+14.0
EXIST.

+31.0
20.0'LT

+31.5
55.0'LT

+99.3
11.0'LT

+18.1
8.6'LT

+18.1
2.3'LT

+64.1
1.0'LT

+64.1
11.0'RT

+05.6
1.0'LT

+28.2
15.0'RT

+78.3
11.0'RT

+82.0
47.0'RT

+02.5
15.0'RT

+82.0
55.0'RT

+84.2
55.0'RT

+93.8
15.0'LT

+16.3
1.0'RT

+03.8
2.3'RT

+03.8
8.6'RT

+22.5
11.0'RT

+09.8
56.3'RT

+68.1
47.0'RT

+34.0
16.9'LT

+61.7
15.2'RT

+70.0
24.2'RT

+93.4
25.0'RT

+44.3
26.4'LT

+60.3
24.8'LT

+70.0
13.2'LT

+05.0
EXIST.

+05.0
EXIST.

40'R

60'R

75'R

60'R

60'R

40'R

60'R

75'R

8'
12'
12'
15'
15'
4'
12'
12'
8'
2'
12'
12'
16'
3'
3'
16'
12'
12'
4'

LEGEND

(1)	CONCRETE CURB TYPE A	(11)	CONCRETE SIDEWALK 5-INCH
(2)	CONCRETE CURB & GUTTER 18-INCH TYPE D	(12)	CONCRETE DRIVEWAY 7-INCH
(3)	CONCRETE CURB & GUTTER 30-INCH TYPE A	(13)	CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
(4)	CONCRETE CURB & GUTTER 30-INCH TYPE D	(14)	CONCRETE SURFACE DRAIN
(5)	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J	(15)	CONCRETE MEDIAN SLOPED NOSE TYPE 1
(6)	CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	(16)	CONCRETE CORRIGATED MEDIAN
(7)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A	(17)	MAINTENANCE RAMP
(8)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D	(18)	ASPHALTIC SURFACE
(9)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	(19)	ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
(10)	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	(20)	BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 84 E

2

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

N

BOYS SCHOOL ROAD

48+00

+13.0 EXIST.

+28.6 11.8' RT

+13.0 EXIST.

+81.0 115.0' RT

+75.1 104.7' RT

+21.3 95.8' RT

+18.4 85.2' RT

+79.8 15.0' LT

+09.3 15.0' RT

49+00 ASPHALT

STH 83, STA. 1559+65.83, 95.17' LT
BOYS SCHOOL RD., STA. 49+09.34, 55.00' RT

REMOVE DRIVEWAY

STH 83, STA. 1560+92.82, 115.00' LT
BOYS SCHOOL RD., STA. 48+79.82, 75.00' LT

40' R

60' R

GRAVEL

+71.7 145.0' LT

+83.0 145.0' LT

+33.4 55.0' LT

+07.5 47.0' LT

+19.5 47.0' LT

+72.1 55.7' LT

STH 83

+92.8 55.0' LT

PI 1560+46.71

+57.6 11.0' LT

+76.4 11.0' LT

+88.9 9.7' LT

+88.9 3.3' LT

+09.3 15.0' RT

1558+00

1559+00

1560+00

PI 50+00.00

60' R

75' R

+50.1 9.2' LT

+50.1 5.0' LT

+64.6 11.0' LT

+58.8 1.0' LT

+08.9 11.0' RT

+44.1 15.0' RT

+70.4 1.0' LT

+08.9 15.0' RT

PC 1557+44.59

1561+00

1562+00

1563+00

+95.9 11.0' RT

+88.5 55.0' LT

℄ STH 83

+35.0 47.0' RT

+34.5 55.0' RT

STH 83, STA. 1560+11.785 =
BOYS SCHOOL RD., STA. 50+00.000
N= 163077.060
E= 642589.062

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 85	E

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

STH 83, STA. 1565+14.008 =
GLACIER PASS, STA. 50+02.563
N= 163565.356
E= 642704.734

FUTURE 4-LANE SLOPE INTERCEPT

FUTURE PED. PATH

PI 1563+34.81 BEGIN SB

PI 1567+93.33 SB

PC 1566+38.59 SB

PI 1563+46.41 PT

PI 1563+34.81 BEGIN NB

PC 50+62.09

PI 1566+86.48 NB

+89.3 47.0' LT

+70.1 47.0' LT

+28.5 11.0' LT

+74.8 5.0' RT

+74.8 9.2' RT

+56.0 1.0' RT

+35.5 1.0' RT

+06.4 3.1' LT

+38.7 2.7' RT

+38.7 8.0' RT

+60.3 11.0' RT

+62.3 11.0' RT

+38.7 55.0' RT

+65.3 55.3' RT

+98.9 47.0' RT

+12.2 15.0' RT

+00.4 15.0' LT

+27.0 EXIST.

+27.0 EXIST.

+00.4 110.0' RT

+10.5 110.0' RT

STH 83, STA. 1564+38.79, 115.00' RT
GLACIER PASS, STA. 51+12.28, 75.00' RT

STH 83, STA. 1565+67.83, 95.23' RT
GLACIER PASS, STA. 51+00.48, 55.00' LT

SB STH 83

NB STH 83

STH 83

GLACIER PASS

60' R

75' R

40' R

1564+00 1565+00 1566+00 1567+00 1568+00 1569+00

51+00 52+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 86 E

FILE NAME : J:\projects\d2_13301883\021233_PD.DGN PLOT DATE : 01-AUG-2013 13:40 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

FUTURE 4-LANE
SLOPE INTERCEPT

1569+00 1570+00 1571+00 1572+00 1573+00 1574+00 1575+00

+92.2
16.0' RT

STH 83

+41.8
16.0' RT

+27.8
16.0' RT

℄ SB STH 83

+41.4
12.0' RT

+40.2
2.0' LT

+50.0
8.5' LT

℄ NB STH 83

+40.8
10.0' LT

+26.7
8.8' LT

2'
8'
12'
4'
9" TOPSOIL +28.02

HIGH SIDE CURB & GUTTER

+61.4
46.9' RT

+69.9
46.9' RT

ASPHALT

+00.0
26.4' RT

+77.4
20.0' RT

+50.0
20.5' RT

REMOVING ASPHALTIC SURFACE MILLING 2"
OVERLAY WITH HMA PAVEMENT TYPE E-3 2"

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 87	E

2

FUTURE 4-LANE
SLOPE INTERCEPT

EXTEND 24" CMCP WITH APRON END WALL

2'
8'
12'

1575+00
℄ SB STH 83
1576+00
1577+00
1578+00
1579+00
1580+00
1581+00
℄ NB STH 83
STH 83

NB PC 1575+25.48

NB PI 1577+47.23

NB PC 1579+68.88

+84.8
12.0' LT

+46.4
20.0' RT

+96.6
24.0' RT

NB PT 1579+68.88
PI 1579+69.85
END SB

REMOVING ASPHALTIC SURFACE MILLING 2"
OVERLAY WITH HMA PAVEMENT TYPE E-3 2"

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 88	E

2

FUTURE 4-LANE
SLOPE INTERCEPT

END PROJECT
STA 1587+01.09 ℄
STA 1586+94.22 NB ℄

+27.2
28.0' LT

PT 1584+33.48 NB

NB ℄ STH 83

+73.9
28.0' LT

1581+00

1582+00

1583+00

1584+00

1585+00

1586+00

STH 83

50+00

REMOVING ASPHALTIC SURFACE MILLING 2"
OVERLAY WITH HMA PAVEMENT TYPE E-3 2"

END NB
PI 1586+47.12

+94.4
24.0' RT

+94.4
12.0' RT

NB
PI 1582+02.05

+89.0
30.0' RT

+91.1
33.0' LT

51+00

PC 51+21.58

GLACIER PASS

LEGEND

1. CONCRETE CURB TYPE A
2. CONCRETE CURB & GUTTER 18-INCH TYPE D
3. CONCRETE CURB & GUTTER 30-INCH TYPE A
4. CONCRETE CURB & GUTTER 30-INCH TYPE D
5. CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J
6. CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J
7. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A
8. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
9. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R
10. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
11. CONCRETE SIDEWALK 5-INCH
12. CONCRETE DRIVEWAY 7-INCH
13. CURB RAMP TYPE 2 W/DETECTABLE WARNING FIELD
14. CONCRETE SURFACE DRAIN
15. CONCRETE MEDIAN SLOPED NOSE TYPE 1
16. CONCRETE CORRIGATED MEDIAN
17. MAINTENANCE RAMP
18. ASPHALTIC SURFACE
19. ASPHALTIC DRIVEWAYS & FIELD ENTRANCES
20. BASE AGGREGATE DENSE 1¼-INCH

XXX SAWCUT X X REMOVE DRIVEWAY X REMOVE TREE/ SHRUB/ BRUSH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN DETAIL	SHEET 89	E

2

N

PERKINS RD.

S.T.H. 83

STH 83

613+00

614+00

615+00

616+00

S-R SHT 83

617+00

618+00

970.37

971.07

971.35

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 90	E

FILE NAME : J:\projects\d2_13301883\021300_GD.dgn PLOT DATE : 30-JUL-2013 16:20 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

PERKINS RD.

PERKINS RD.

N

618+00

619+00

620+00

621+00

S-R SHT 83

STH 83

622+00

623+00

624+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 91	E

FILE NAME : J:\projects\d2_13301883\021301_GD.DGN PLOT DATE : 30-JUL-2013 16:20 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

977.89
978.16
978.46
978.72
978.88
979.26

624+00
625+00
626+00
627+00
628+00
629+00
630+00

S-R STH 83
STH 83

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET	E

FILE NAME : J:\projects\d2_13301883\021302_GD.DGN PLOT DATE : 30-JUL-2013 16:20 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

2

N

630+00

631+00

S-℄ STH 83

632+00

633+00

634+00

635+00

636+00

STH 83

981.36

981.26

981.12

980.95

981.21

981.62

982.29

982.81

51+00

LONDON DR.

52+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 93	E

2

N

2

636+00 637+00 638+00 S-℄ STH 83 639+00 640+00 641+00 642+00

STH 83

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 94	E

FILE NAME : J:\projects\d2_13301883\021304_GD.DGN PLOT DATE : 30-JUL-2013 16:20 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

642+00

643+00

644+00

S-℄ STH 83

645+00

646+00

985.02

984.76

984.50

984.56

984.70

985.22

985.63

MATCHLINE
STA. 646+00

HARVEST VIEW DR.

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 95	E

2

N

.64 991.35 991.07 990.78 990.50 990.21 989.94 989.87 990.03 990.42 991.05 991.96 993.29

STH 83

.74 991.45 991.17 990.88 990.60 990.31 990.04 989.97 990.13 990.52 991.15 992.02 993.11

1459+00 1460+00 1461+00 ℄ STH 83 1462+00 1463+00 1464+00 1465+00

.74 991.45 991.17 990.88 990.60 990.31 990.04 989.97 990.13 990.52 991.15 992.02 993.11

.64 991.35 991.07 990.78 990.50 990.21 989.94 989.87 990.03 990.42 991.05 991.88 992.81

MATCHLINE
STA. 1459+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 96	E

2

N

993.29 994.87 996.75 998.63 1000.22 1001.82 1003.41 1005.01 1006.60 1008.19 1009.78 1011.37 1012.96

993.11 994.44 995.99 997.58 999.17 1000.76 1002.35 1003.93 1005.52 1007.11 1008.70 1010.29 1011.88

1465+00 ℄ STH 83 1466+00 1467+00 1468+00 1469+00 1470+00 1471+00

993.11 994.44 995.99 997.58 999.17 1000.76 1002.35 1003.93 1005.52 1007.11 1008.70 1010.29 1012.00 1011.88

992.81 993.98 995.24 996.53 998.11 999.67 1001.27 1002.85 1004.44 1006.03 1007.62 1009.21 1010.80 1012.39

STH 83

1013.64 1013.47

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 97	E

2

N

PORTHAMEL CT.

49+00

STH 83

R

L STH 83

1471+00

1472+00

1473+00

1474+00

1475+00

1476+00

1477+00

1011.88 1012.96 1014.47 1015.83 1017.02 1017.91 1018.42 1018.79 1019.21 1019.63 1019.84 1019.98

1012.00 1011.88 1013.47 1014.96 1016.28 1017.41 1018.36 1019.13 1019.72 1020.12 1020.34 1020.38 1020.24 1019.91

1010.80 1012.39 1013.88 1015.21 1016.52 1017.84 1018.78 1019.54 1020.02 1020.24 1020.28 1020.14 1019.81

1013.39 1014.75 1015.96 1017.01 1017.91 1018.66 1018.90 1019.26 1019.45- 1019.70 1019.99 1020.13 1020.11 1019.94

1011.88 1013.64 1015.08 1016.26 1017.26 1018.07 1018.94 1019.33 1020.14 1020.57 1020.04 1019.58

1018.90 1019.53 1019.40 1019.60 1019.89 1020.03 1020.01 1019.84

1019.68 1019.84 1019.69

1020.88

1020.58

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 98	E

FILE NAME : J:\projects\d2_13301883\021313_GD.DGN PLOT DATE : 30-JUL-2013 16:34 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

CTH G

48+00

49+00

1004.32

1003.52 1004.90 1004.19 1003.80

1006.97

1019.84 1019.52 1019.05 1018.39 1017.50 1016.38 1015.04 1013.47 1011.67 1009.75 1008.52

STH 83

1019.94 1019.62 1019.15 1018.49 1017.60 1016.48 1015.14 1013.57 1011.77 1009.86 1007.95 1006.05 1004.14

1477+00 1478+00 1479+00 ℄ STH 83 1480+00 1481+00 1482+00 1483+00

1019.58 1019.34 1018.85 1019.19 1016.29 1015.04 1012.51 1010.75 1008.94 1006.96 1005.97 1003.14

1018.32 1017.39 1015.76 1014.19

1019.91 1019.40 1018.77 1017.95 1016.95 1015.76 1014.37 1012.79 1011.02 1009.08 1007.09 1005.11 1003.13

1019.81 1019.30 1018.67 1017.85 1016.85 1015.66 1014.27 1012.69 1010.92 1008.98 1006.99 1005.01 1003.03

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 99	E

2

N

1004.19 1003.80 1003.15 1002.44 1001.34 999.75 998.42 997.44 996.68 996.17 995.85 995.44 994.97 994.51 994.20

STH 83

1004.14 1002.26 1000.58 999.13 997.92 996.94 996.19 995.67 995.35 995.06 994.78 994.49 994.22

1483+00 1484+00 1485+00 1486+00 1487+00 1488+00 1489+00

℄ STH 83

1003.13 1001.25 999.63 998.26 997.14 996.28 995.67 995.31 995.10 994.85 994.56 994.27 993.99

1003.03 1000.95 999.09 997.67 996.57 995.72 995.06 995.88 995.26 995.11 994.91 994.70 994.48 994.25

50+00

51+00

52+00

993.43

994.55 994.46 994.52 994.38 994.15

E. BRANDYBROOK RD.

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 100	E

FILE NAME : J:\projects\d2_13301883\021315_GD.DGN PLOT DATE : 30-JUL-2013 16:34 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

2

N

994.20 993.91 993.50 993.09 992.76 992.51 992.27 992.02 991.78 991.57 991.51 991.60 991.87

994.22 993.96 993.71 993.47 993.22 992.98 992.73 992.49 992.24 992.03 991.97 992.06 992.29

1489+00 1490+00 1491+00 1492+00 1493+00 1494+00 1495+00

993.99 993.81 993.68 993.49 993.28 992.98 992.73 992.49 992.24 992.03 991.97 992.06 992.29

994.25 994.00 993.75 993.50 993.25 993.00 992.67 992.75 992.50 992.25 992.02 991.94 992.03 992.26

994.15 993.94 993.93 993.91 993.79 993.54 993.29 993.04 992.79 992.56 992.48 992.57 992.74

℄ STH 83

STH 83

11

991.97 992.06 992.29

991.78 991.70 991.79 991.90

992.01 992.28

992.24 992.03

992.49

992.73

992.98

993.22

993.28

993.47

993.49

993.68

993.71

993.75

993.81

993.96

993.99

994.00

994.22

994.25

994.15

993.94

993.93

993.91

993.79

993.54

993.29

993.04

992.79

992.56

992.48

992.57

992.74

992.67

992.75

992.50

992.25

992.02

991.94

992.03

992.26

993.00

993.25

993.50

993.75

994.00

2

N

S. WELSH RD.

49+00

50+00

991.87 992.31 992.74 993.07 993.22 993.23 993.09 992.86 992.78 992.88 993.00 992.97 993.05 992.88 992.94 993.12 993.32 992.96 992.80 992.97 993.13 993.29 993.48 993.63

992.29 992.05 992.24 992.56 992.83 993.09 993.24 993.25 993.11 992.88 992.80 992.91 993.17 993.09 993.45 993.73 993.20 993.46

1495+00 1496+00 1497+00 1498+00 1499+00 1500+00 1501+00

992.26 992.42 992.52 992.78 993.04 993.15 993.22 993.05 992.86 992.62 992.52 992.62 993.17 993.45 993.73

℄ STH 83

STH 83

992.74 992.76 992.78 992.94 993.12 993.15 993.04 992.80 992.70 992.80 992.89 992.89 993.09 993.33 993.39 993.63 993.02 993.18

51+00

E. WELSH RD.

52+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 102	E

2

N

993.63 993.92 994.20 994.48 994.82 995.39 996.20 997.24 998.51 1000.03 1001.78 1003.71 1005.65

STH 83

995.62

993.73 994.02 994.30 994.58 994.92 995.49 996.30 997.34 998.61 1000.13 1001.88 1003.81 1005.75

1501+00 1502+00 1503+00 1504+00 1505+00 1506+00 1507+00

993.46 993.73 994.02 994.30 994.35

℄ STH 83

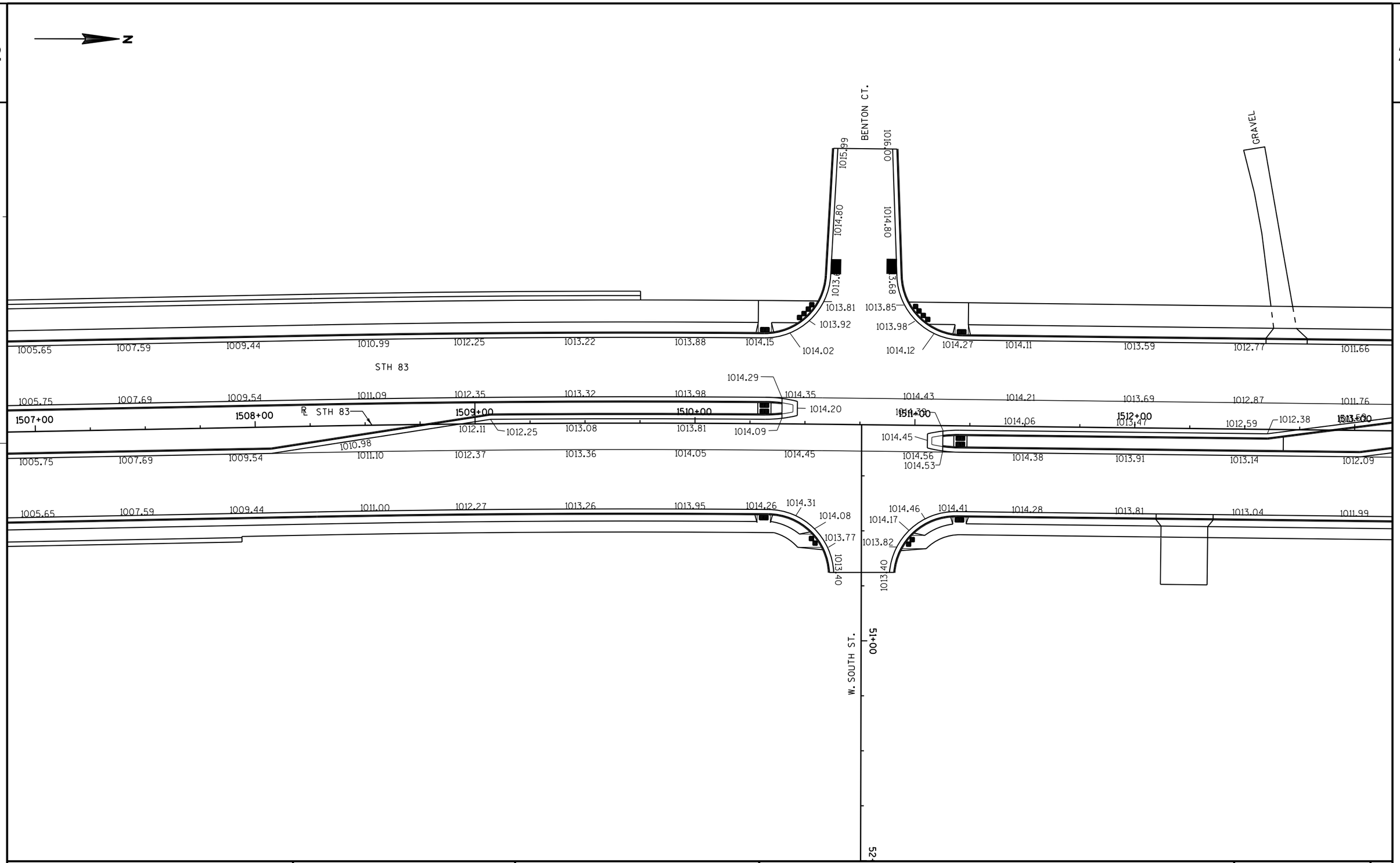
993.73 994.02 994.30 994.58 994.92 995.49 996.30 997.34 998.61 1000.13 1001.88 1003.81 1005.75

993.63 993.92 994.20 994.48 994.82 995.39 996.20 997.24 998.51 1000.03 1001.78 1003.71 1005.65

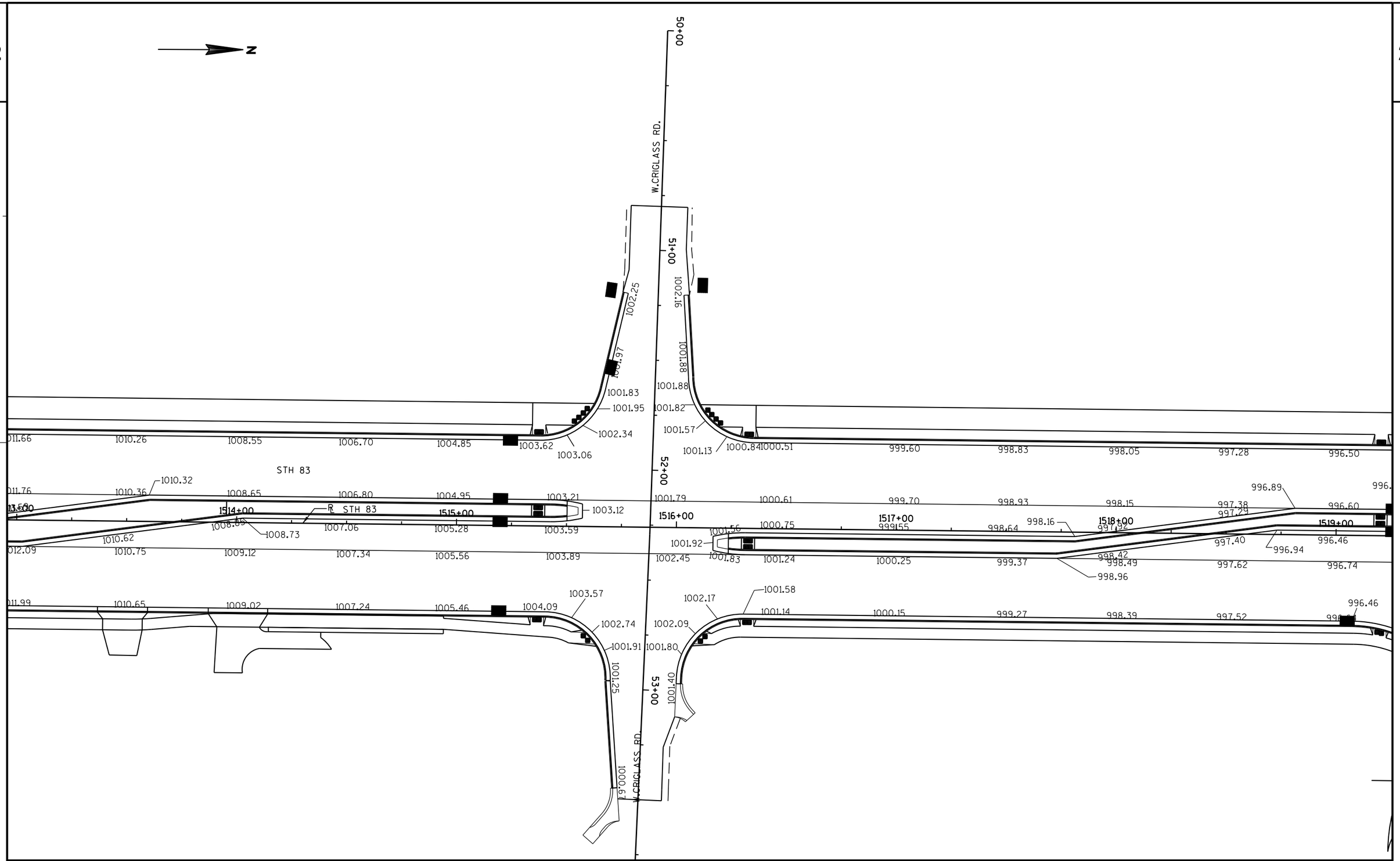
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 103	E

FILE NAME : J:\projects\d2_13301883\021318_GD.DGN PLOT DATE : 30-JUL-2013 16:34 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 104	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 105	E

2

N

995.02
994.92
994.87
995.32
995.78
995.60
994.82
994.27
993.82
993.57
993.53
993.70
994.09
994.68
995.48
996.49
997.71
996.09
995.83
995.05
994.38
993.92
993.67
993.63
993.80
994.18
994.06
994.78
995.58
996.59
997.81
995.96
995.91
995.86
994.99
994.21
994.40
994.34
993.89
993.35
992.95
992.81
994.11
993.42
992.99
992.83
992.93
993.29
993.91
994.80
995.95
996.89
997.37
STH 83
℄ STH 83
1520+00
1521+00
1522+00
1523+00
1524+00
1525+00
50+00
51+00
52+00
W. MAIN ST.
CTH G
6.46
995.82
994.81
994.28
993.98
993.85
993.24
992.33
991.98
994.19
994.07
994.01
993.32
992.89
992.73
992.83
993.19
993.81
994.70
995.85
997.27
994.27
994.84
994.13
993.67
992.92
992.76
992.25
990.94
991.91
989.83
989.58
989.30

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET	E

FILE NAME : J:\projects\d2_13301883\021321_GD.DGN PLOT DATE : 30-JUL-2013 16:34 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

2

N

48+00

CYMRIC CT.

49+00

1009.98

1008.27

1008.17

1005.86

1007.50

1005.42

1005.99

1007.60

1008.07

1008.70

1009.66

1010.35

1010.78

1010.94

1010.85

1010.48

999.14

1000.79

1002.54

1004.28

STH 83

999.24

1000.89

1002.64

1004.38

1005.81

1005.94

1007.58

1008.80

1009.76

1010.45

1010.88

1011.04

1011.02

1010.95

1010.58

1526+00

1527+00

1528+00

1529+00

1530+00

1531+00

998.86

999.96

1000.52

1002.28

1004.04

1005.48

℄ STH 83

1008.18

1008.54

1009.49

1010.19

1010.44

1010.97

1008.10

1008.23

1008.77

1009.73

1010.43

1010.86

1011.03

1010.94

1010.58

999.04

1000.80

1002.56

1004.32

1006.04

1007.54

998.94

1000.70

1002.46

1004.22

1005.94

1007.44

1008.67

1009.63

1010.33

1010.76

1010.93

1010.84

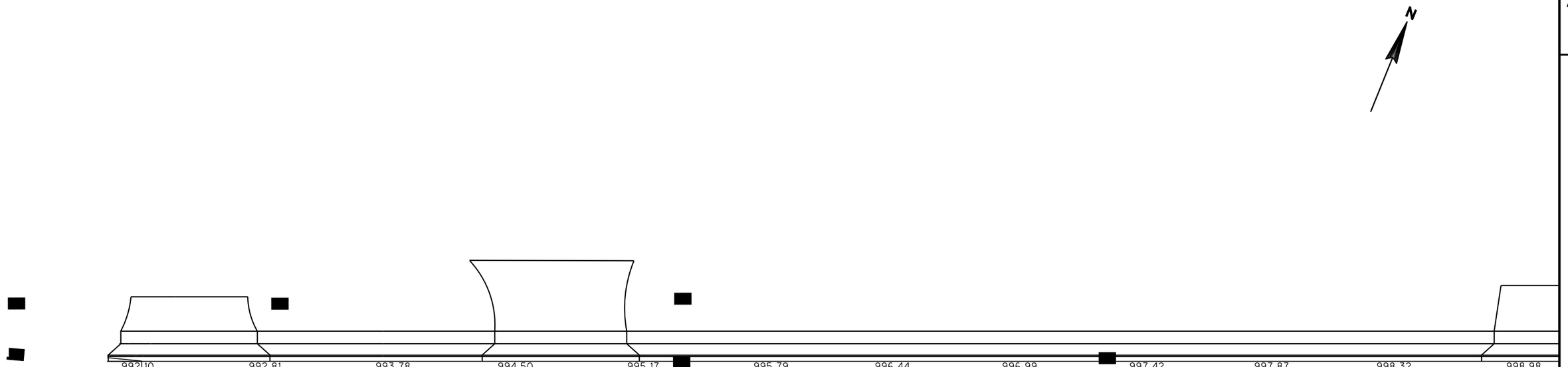
1010.48

MATCHLINE
STA. 1531+50

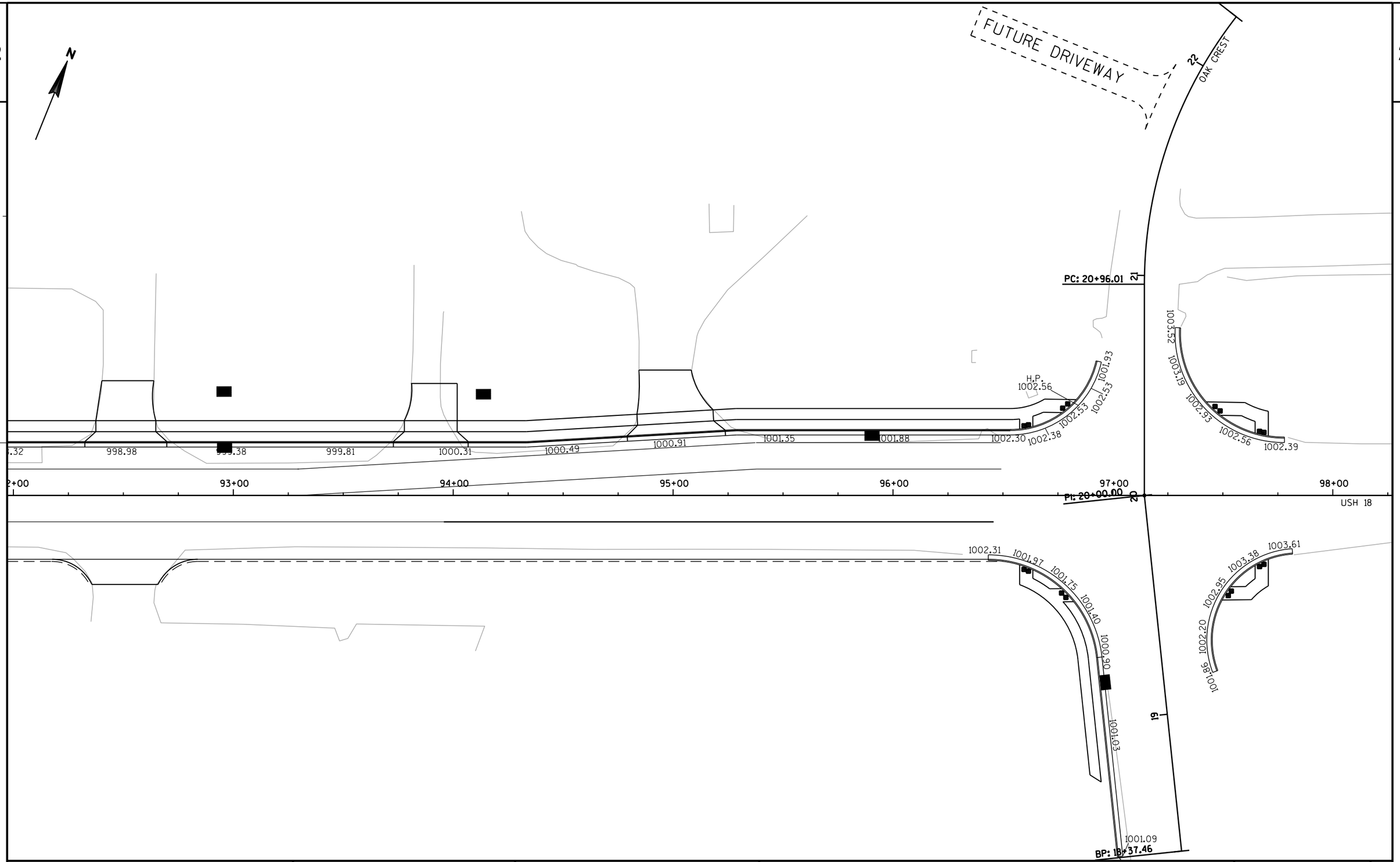
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 107	E

2

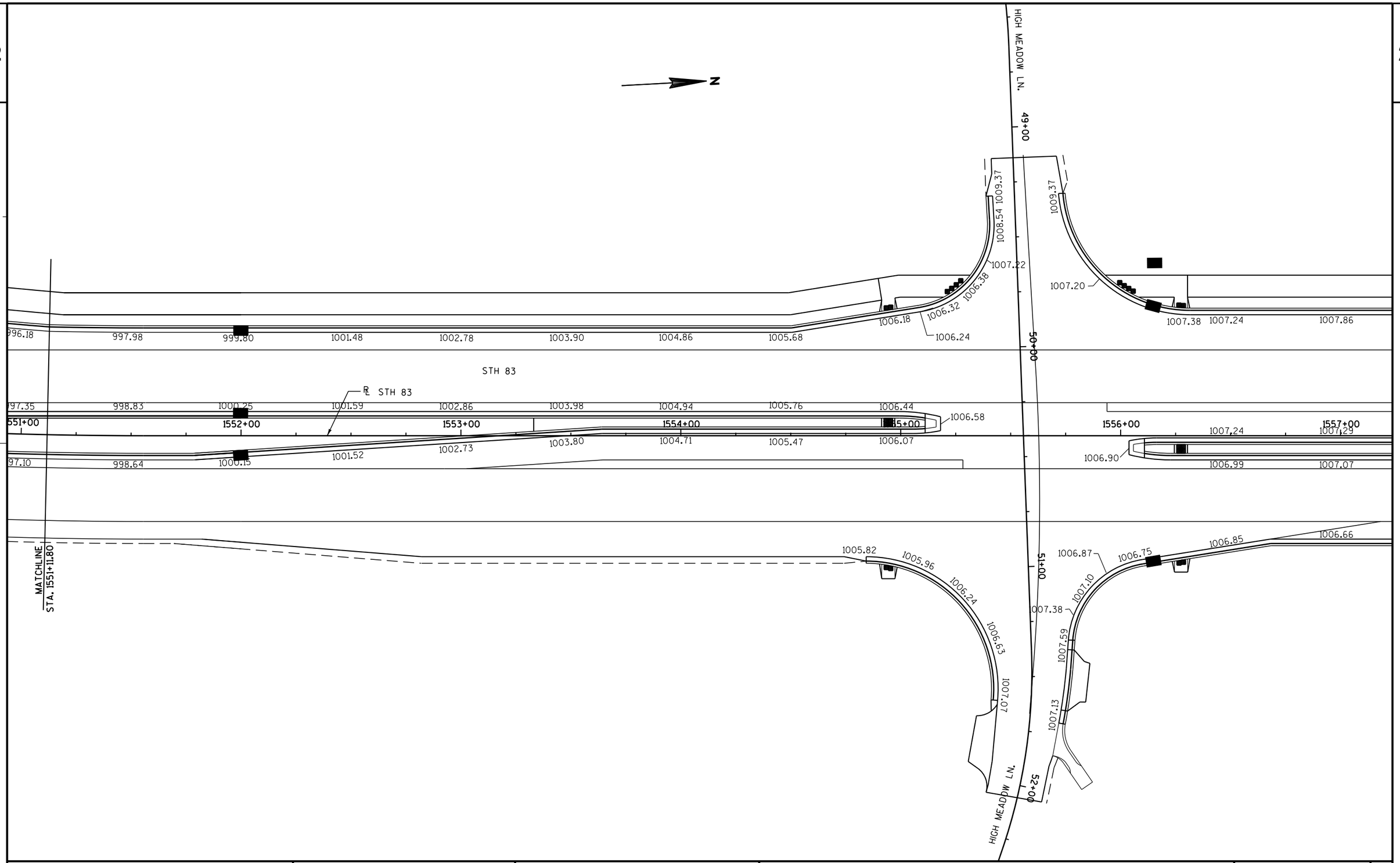
2



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 108	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 109	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 110	E

2

2

BOYS SCHOOL ROAD

48+00

49+00

N

1002.44

1005.19

1006.07

1005.40

1005.01

1005.07

1006.20

1004.45

1003.41

1002.17

1000.84

999.49

998.06

7.86

1008.31

1008.17

1007.74

1007.18

1006.60

STH 83

1006.73

1006.17

1005.45

1004.87

1560+00

1004.59

1003.41

1002.39

1001.06

999.66

998.26

996.86

1563+00

1562+00

1561+00

1001.68

1000.38

℄ STH 83

999.08

997.78

996.48

57+00

7.29

1007.17

1558+00

1006.80

1559+00

1006.42

1005.89

1005.12

7.07

1007.00

1006.72

6.66

1006.24

1005.71

1005.25

1004.64

1003.88

1002.96

1001.89

1000.67

999.34

997.93

997.83

996.55

995.25

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 111	E

2

N

FUTURE PED. PATH

℄ SB STH 83

℄ STH 83

℄ NB STH 83

1564+00 1565+00 1566+00 1567+00 1568+00 1569+00

996.04 993.27 992.61 991.39 990.63 989.72 988.91 987.52

992.61

995.49 994.13 992.69 990.51 989.56 988.75 987.78 987.14 986.57 986.05 985.67 986.58

991.95 990.45

995.47 993.79 992.39 989.31 988.47 987.61 987.05 986.56 986.08 985.58

994.75 993.17 992.30 991.61 990.59 989.78 989.40 989.96 990.11 989.95 989.70 989.11 988.33 987.69 987.52 986.96 986.46 985.96 985.46

51+00

GLACIER PASS

52

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 112	E

FILE NAME : J:\projects\d2_13301883\021333_GD.DGN PLOT DATE : 30-JUL-2013 16:40 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

2

N

1569+00 1570+00 1571+00 1572+00 1573+00 1574+00 1575+00

STH 83

℄ SB STH 83

986.58 985.09 984.66 983.82 983.66 983.08 982.89 980.98

986.58 985.07 984.64 984.24 983.84 983.54 983.03 982.84

℄ NB STH 83

1569+00 1570+00 1571+00 1572+00 1573+00 1574+00 1575+00

984.46 984.95 984.43 983.92 983.41 982.91 982.42 982.06

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 113	E

2

N

1575+00

℄ SB STH 83

1576+00

1575+00

℄ NB STH 83

1576+00

1577+00

1577+00

1578+00

1578+00

973.53

1579+00

1579+00

973.72

STH 83

1580+00

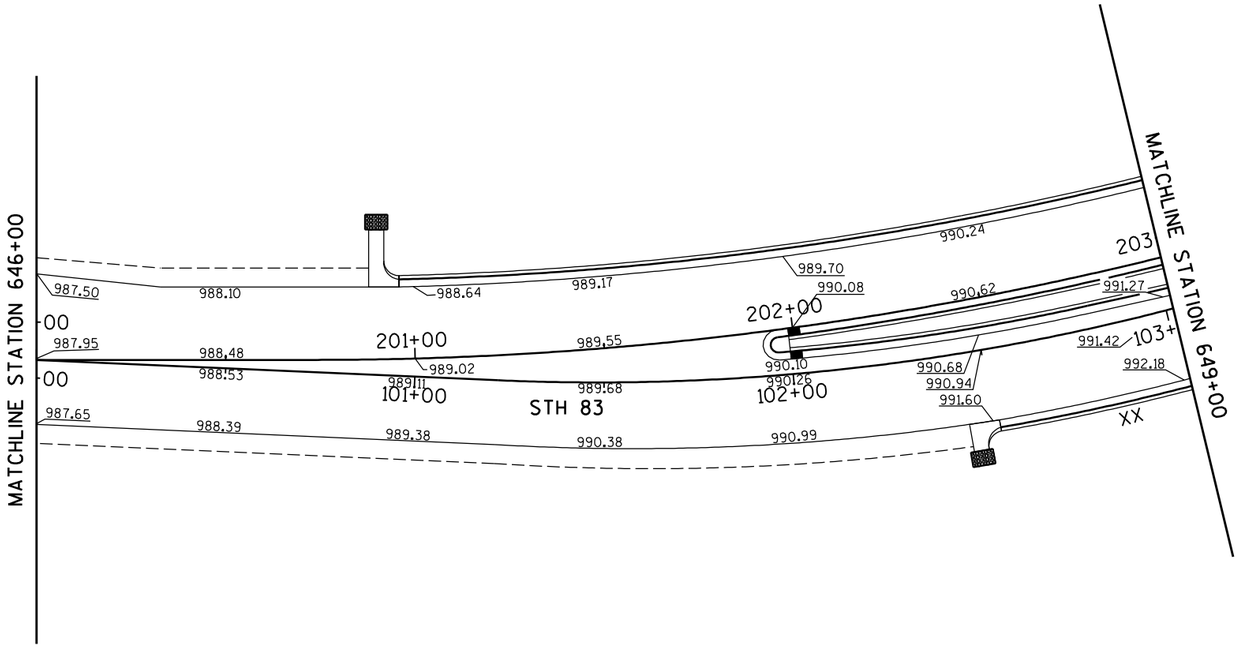
℄ NB STH 83

1581+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 114	E

2

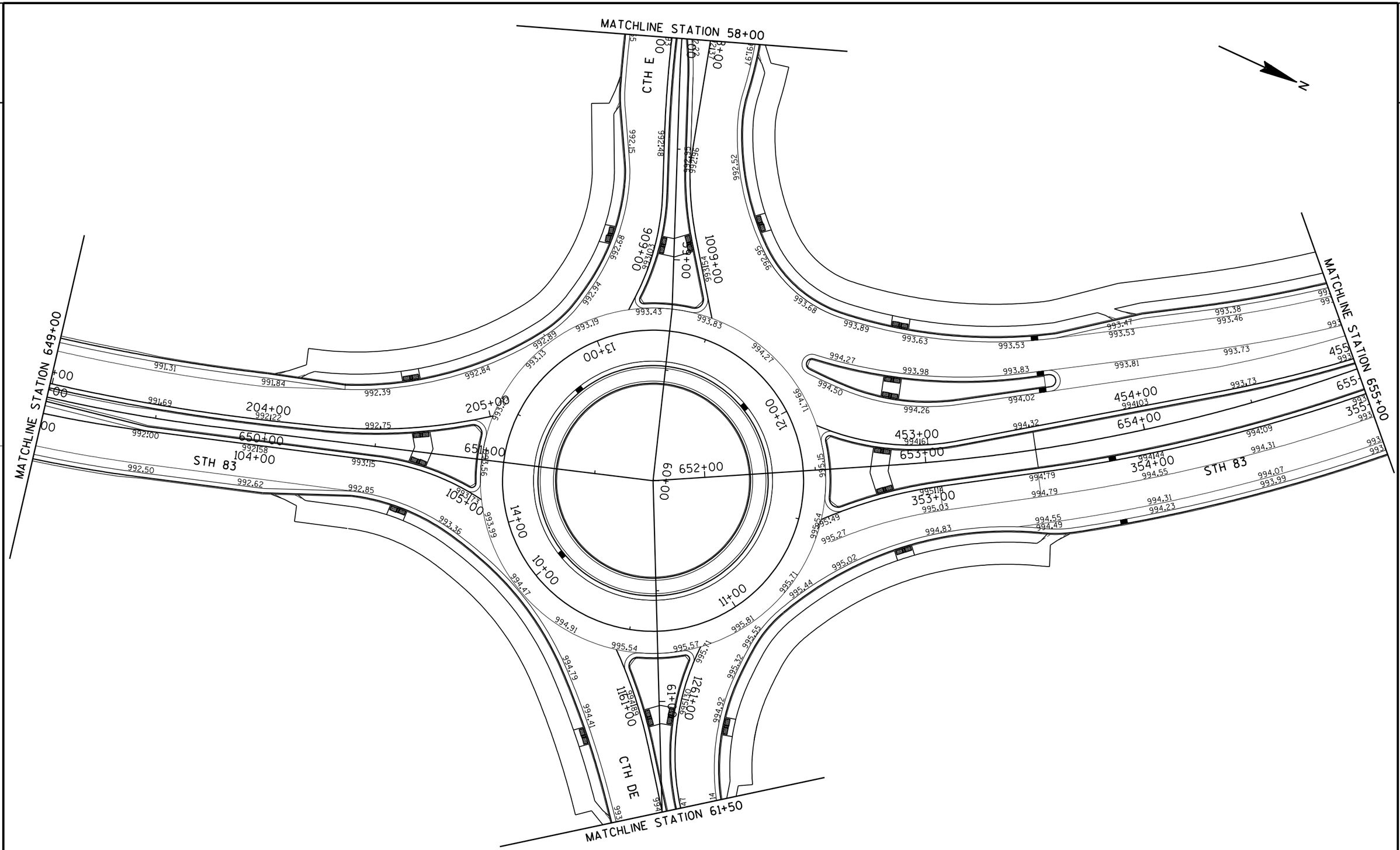
N



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 115	E

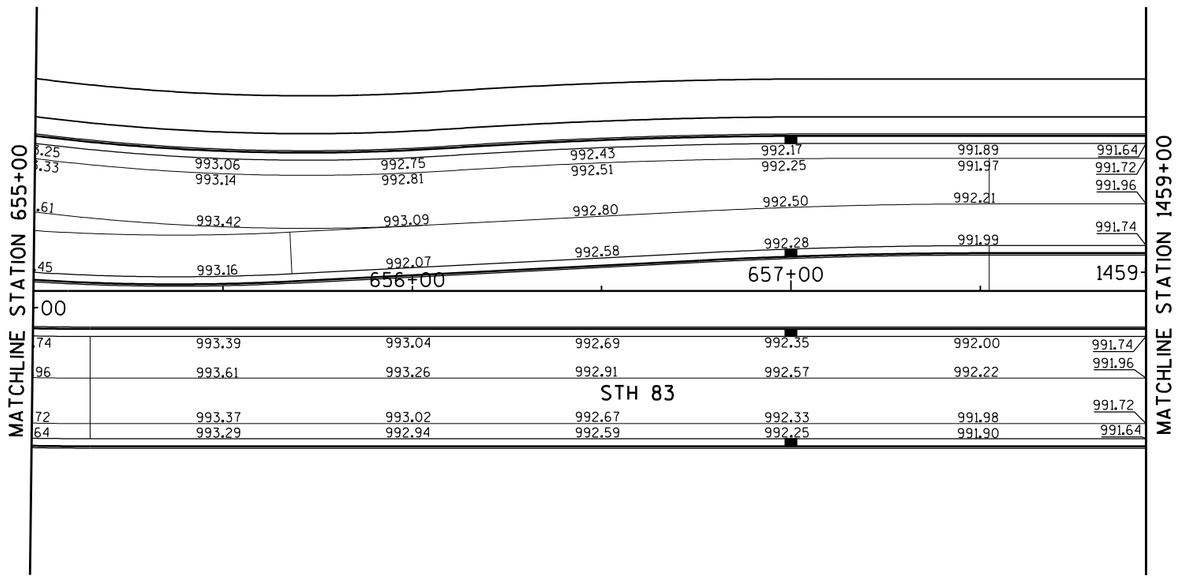
FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021306_gd.dgn
PLOT DATE : 7/17/2013 3:12:57 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2


MATCHLINE STATION 58+00
CTH E
STH 83
MATCHLINE STATION 649+00
MATCHLINE STATION 655+00
MATCHLINE STATION 61+50
CTH DE
N
8+00
9+00
903+00
1001+00
12+00
13+00
14+00
10+00
11+00
652+00
651+00
650+00
649+00
204+00
205+00
104+00
105+00
1161+00
1261+00
453+00
454+00
455+00
654+00
653+00
655+00
354+00
353+00
351+00
991.31
991.84
992.39
992.84
992.89
993.19
993.13
992.94
992.68
992.15
991.97
992.52
992.66
993.43
993.83
994.27
993.98
993.83
994.02
994.26
994.50
993.68
993.89
993.63
993.53
993.47
993.53
993.38
993.46
993.81
993.73
994.32
994.71
995.15
995.49
995.27
994.83
995.02
995.44
995.71
995.81
995.55
995.32
995.57
995.54
994.91
994.47
994.41
994.79
994.92
995.03
994.55
994.49
994.79
994.55
994.31
994.23
994.09
994.07
993.99
994.31
994.07
993.99
993.36
992.50
992.62
992.85
993.15
992.00
991.69
992.75
993.56
992.158
992.122
992.158
992.178
992.196
992.216
992.236
992.256
992.276
992.296
992.316
992.336
992.356
992.376
992.396
992.416
992.436
992.456
992.476
992.496
992.516
992.536
992.556
992.576
992.596
992.616
992.636
992.656
992.676
992.696
992.716
992.736
992.756
992.776
992.796
992.816
992.836
992.856
992.876
992.896
992.916
992.936
992.956
992.976

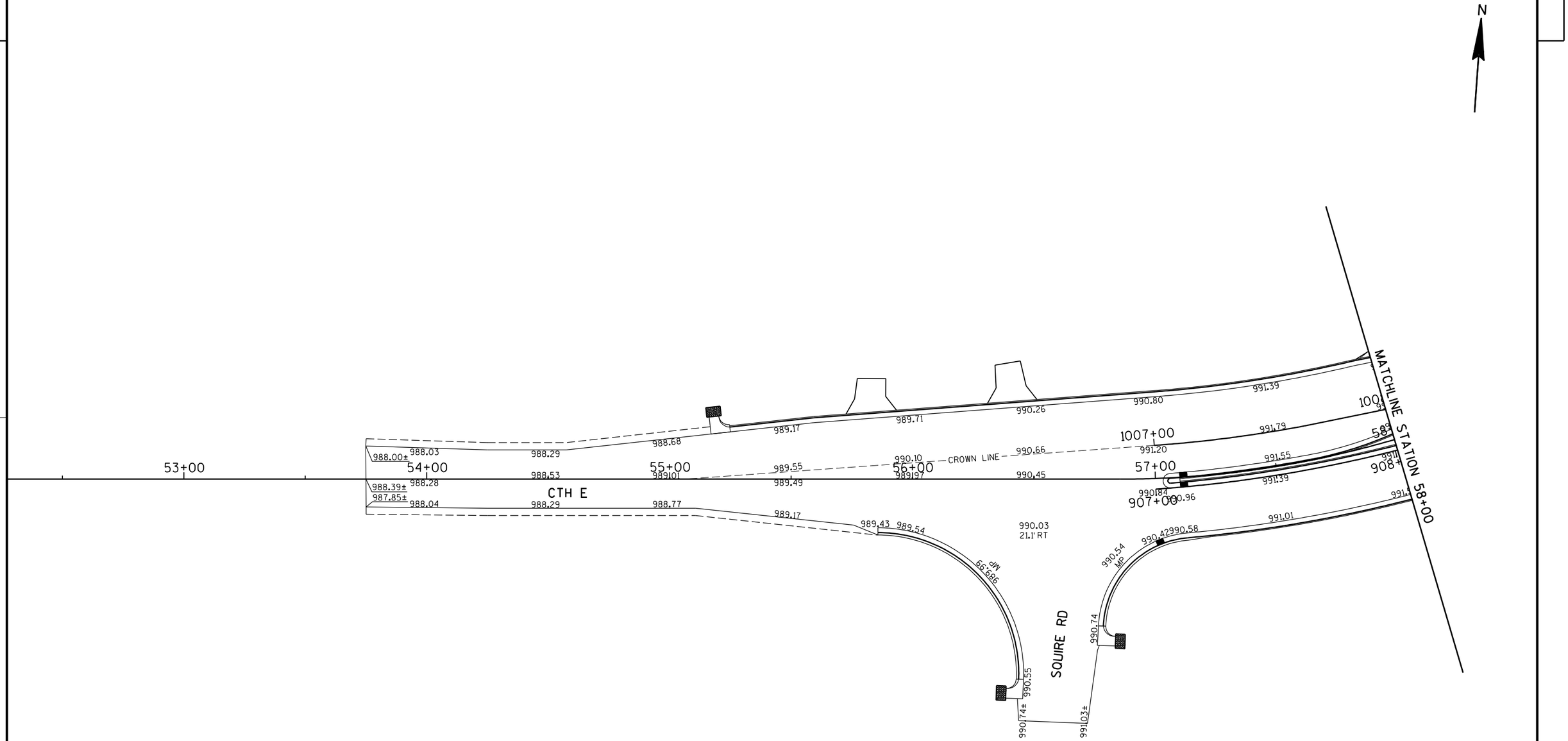
2

N



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 117	E

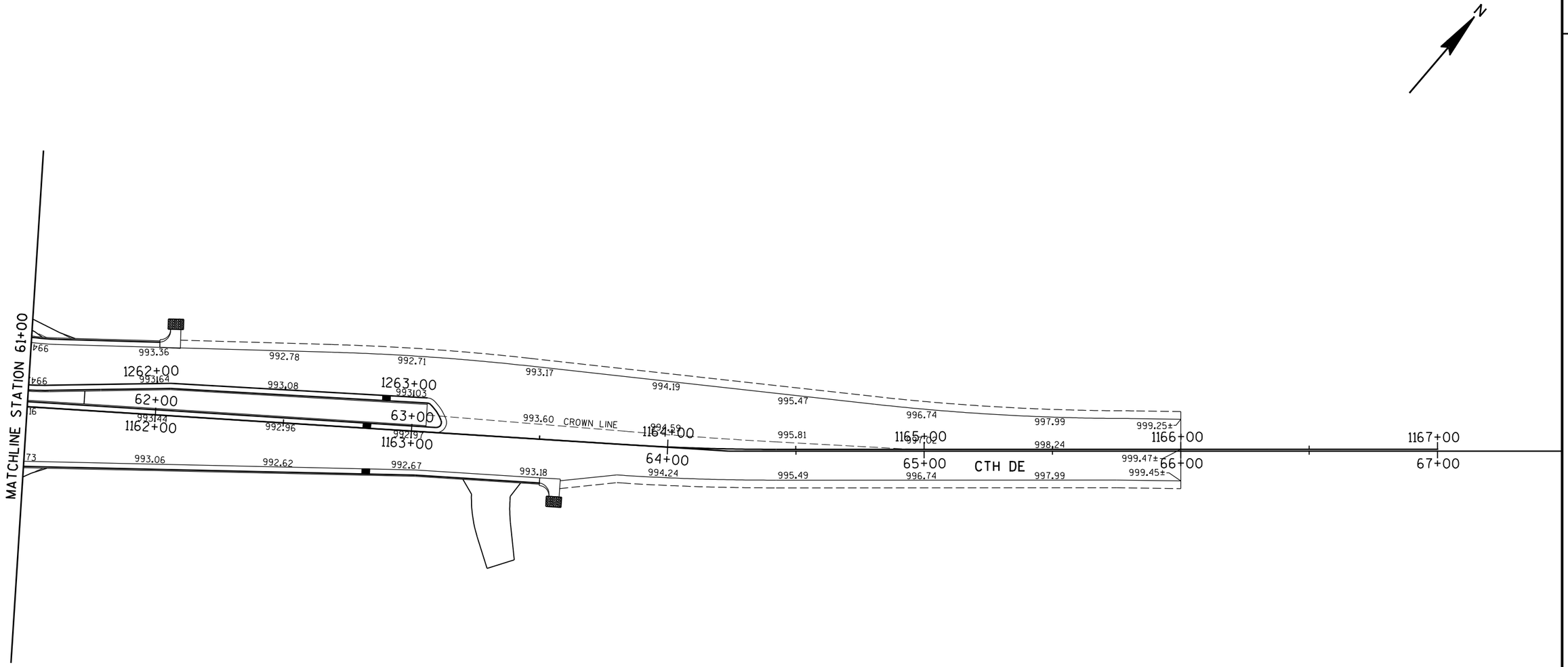
2



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 118	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021309_gd.dgn
PLOT DATE : 7/17/2013 3:17:04 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 119	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021310_gd.dgn PLOT DATE : 7/17/2013 3:23:05 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 40.0000 FT / IN.
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL

2

N

MATCHLINE STATION 1531+50

1008.47
-2%
1008.13
1007.84
1009.10
1009.64
1008.16
1009.56
1007.92
1532+00
1533+00
1009.82
1009.08
1007.96
1010.20
1009.28
1008.16
1010.04
1008.96
1007.84

1007.48
+2%
1007.24
1006.69 1005.53 1004.38 1003.23 1002.07 1000.92 999.76 998.61 997.45 996.30
1007.01 1005.85 1004.70 1003.55 1002.39 1001.24 1000.08 998.93 997.77 996.62 995.47
1006.79 1005.63 1004.48 1003.33 1002.17 1001.02 999.86 998.71 997.55 996.40 995.25
1534+00
1535+00
1536+00
1537+00
1538+00
1539
1006.81 1005.65 1004.50 1003.32 1002.03 1000.74 999.58 998.43 997.27 996.16
1007.01 1005.85 1004.70 1003.55 1002.39 1001.24 1000.08 998.93 997.77 996.62 995.47
1006.69 1005.53 1004.38 1003.23 1002.07 1000.92 999.76 998.61 997.45 996.30 995.15
998.02
997.65
994.85
996.96
994.47
995.51

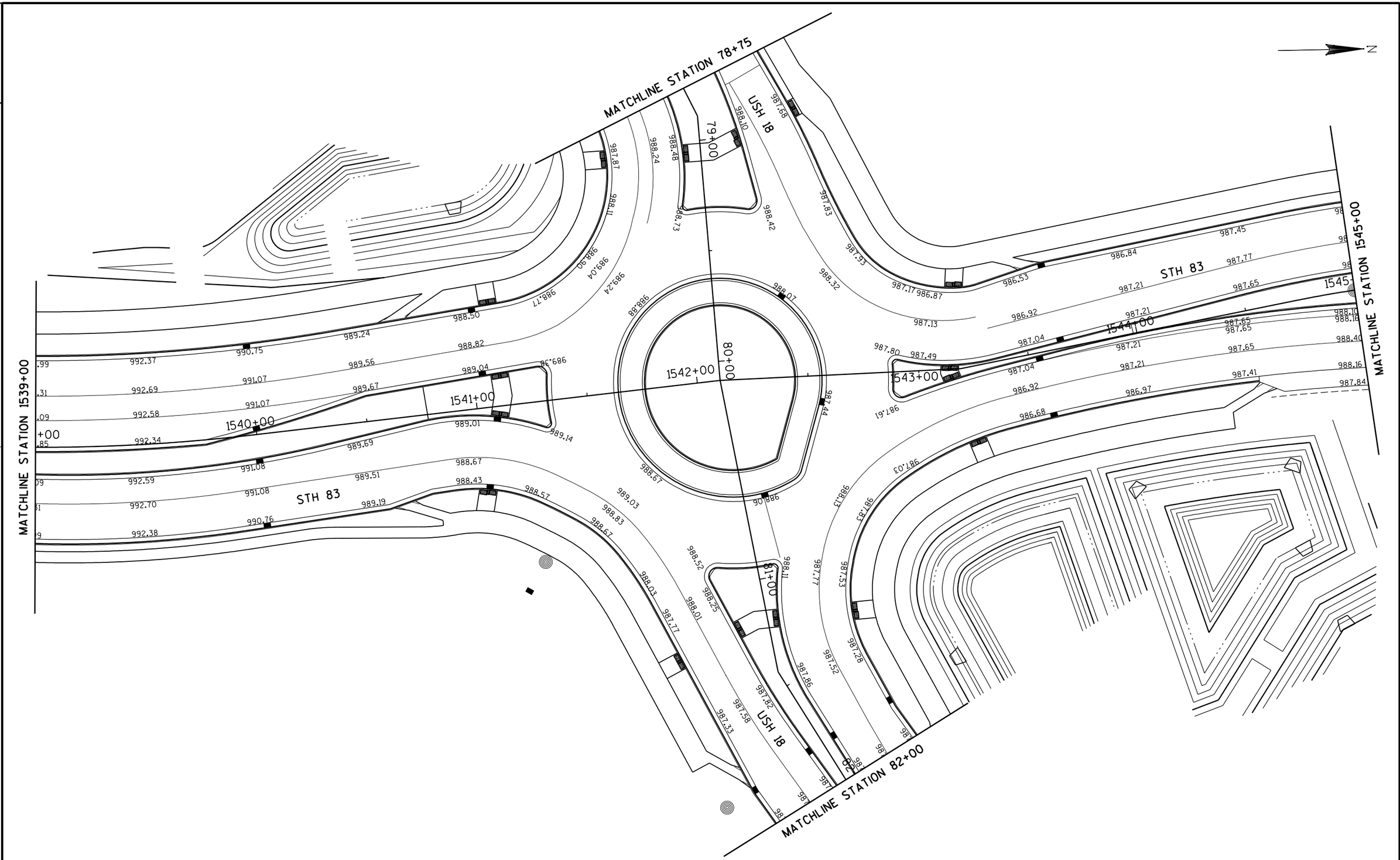
995.87
996.15
994.88
996.84
997.24
994.50
994.78
994.38
994.10
994.56
995.01

MATCHLINE STATION 1539+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 120	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021323_gd.dgn
PLOT DATE : 7/17/2013 3:23:24 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2


N
MATCHLINE STATION 78+75
MATCHLINE STATION 1539+00
MATCHLINE STATION 1545+00
MATCHLINE STATION 82+00
USH 18
STH 83
79+00
80+00
81+00
1540+00
1541+00
1542+00
1543+00
1544+00
1545
988.40
987.68
988.48
988.24
987.87
988.73
988.42
987.83
987.93
988.32
987.17
986.87
986.53
986.84
987.45
987.77
987.21
987.65
986.92
987.13
988.07
988.38
989.24
988.50
988.77
989.04
989.50
988.11
989.24
988.82
989.56
989.67
989.38
989.04
989.01
989.14
988.67
989.51
988.43
988.57
989.03
988.83
988.67
989.19
990.76
992.38
992.70
992.59
991.08
991.08
989.69
992.34
991.07
992.58
991.07
992.69
990.75
992.37
989.24
988.50
987.44
987.80
987.49
987.61
987.04
987.21
987.65
986.92
986.97
987.41
986.68
987.84
988.16
988.40
988.10
988.16
987.03
988.13
987.83
987.53
987.77
987.28
988.11
988.52
988.25
988.01
987.52
987.86
987.82
987.58
987.33
988.03
987.77
988.86
988.67
988.57
988.83
989.03
989.19
990.76
992.38
992.70
992.59
991.08
991.08
989.69
992.34
991.07
992.58
991.07
992.69
990.75
992.37

2

N

MATCHLINE STATION 1545+00

988.02
988.34
988.10
+00
988.46
988.78
988.54
988.54
988.62
988.86
988.62
988.30
988.91
989.23
988.99
988.99
989.07
989.31
989.07
988.75
989.35
989.67
989.43
989.43
989.51
989.75
989.51
989.19
989.20
989.60
989.80
989.88
990.12
989.88
989.80
990.12
989.88
989.72
989.97
990.21
990.29
990.12
990.53
990.33
990.25
990.33
990.57
990.36
990.23
990.98
990.28
990.52
990.60
990.74
990.98
991.06
990.84
990.80
990.72
990.80
991.04
991.00
990.98
991.30
991.59
991.69
991.99
991.43
991.35
991.43
991.67
991.80
991.89
992.25
992.14
992.24
992.54
992.83
993.03
993.13
993.51
993.63
993.27
993.10
993.23
993.61
993.99
994.25
994.55
994.98
994.01
995.36
994.46
995.73
995.83
994.26
994.39
995.60
995.73
994.77
995.16
995.41
996.17
996.47
996.84
997.22
997.34
997.09
997.22
996.11
996.50
996.75
997.60
998.05
998.24

1546+00
1547+00
1548+00
1549+00
1550+00
1551+

STH 83

MATCHLINE STATION 1551+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 122	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021325_gd.dgn
PLOT DATE : 7/17/2013 3:24:48 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2

N

-00

74+00

75+00

76+00

77+00

78+00

985.26 985.62 986.04

985.58 985.94 986.25 986.54 986.86 987.16 987.47

985.94 986.25 986.56 986.87 987.18 987.48 987.79

986.06 986.25 986.53 986.81 987.09 987.36 987.64 987.92 988.20

986.01 986.29 986.57 986.85 987.12 987.40 987.68 987.96

985.51 985.69 985.97 986.25 986.53 986.79 987.04 987.29 987.58

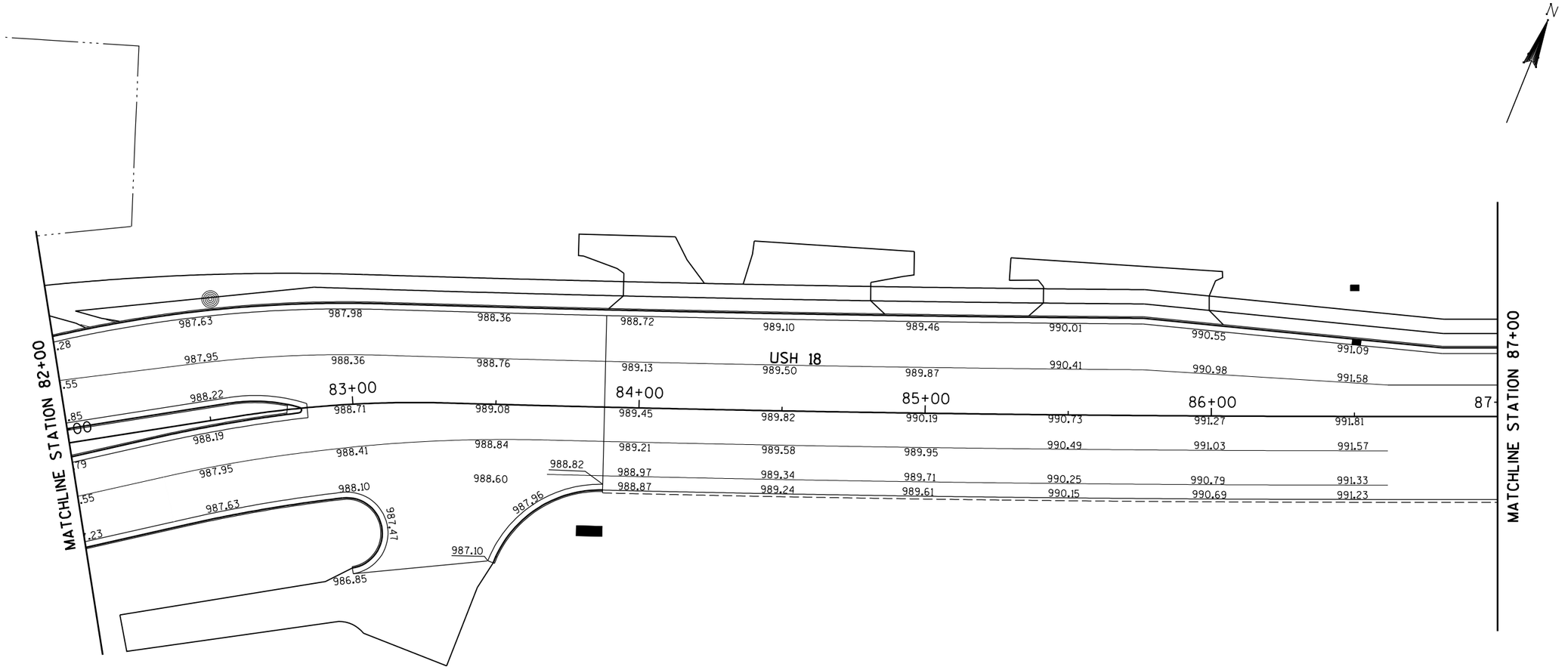
USH 18

MATCHLINE STATION 78+75

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 123	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021326_gd.dgn PLOT DATE : 7/17/2013 3:27:31 PM PLOT BY : Josh Mitchell (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 40.0000 FT / IN.

2



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT GRADES	SHEET 124	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_021327_gd.dgn
PLOT DATE : 9/16/2013 2:40:13 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2

2

POOL

PERKINS RD.

STH 83

613+00

614+00

615+00

616+00

617+00

618+00

RUINS

RUINS

30

30

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET	E

FILE NAME : J:\projects\d2_13301883\022100_EC.dgn PLOT DATE : 06-SEP-2013 17:48 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

PERKINS RD.

PERKINS RD.

N

STH 83

618+00

619+00

620+00

621+00

622+00

623+00

624+00

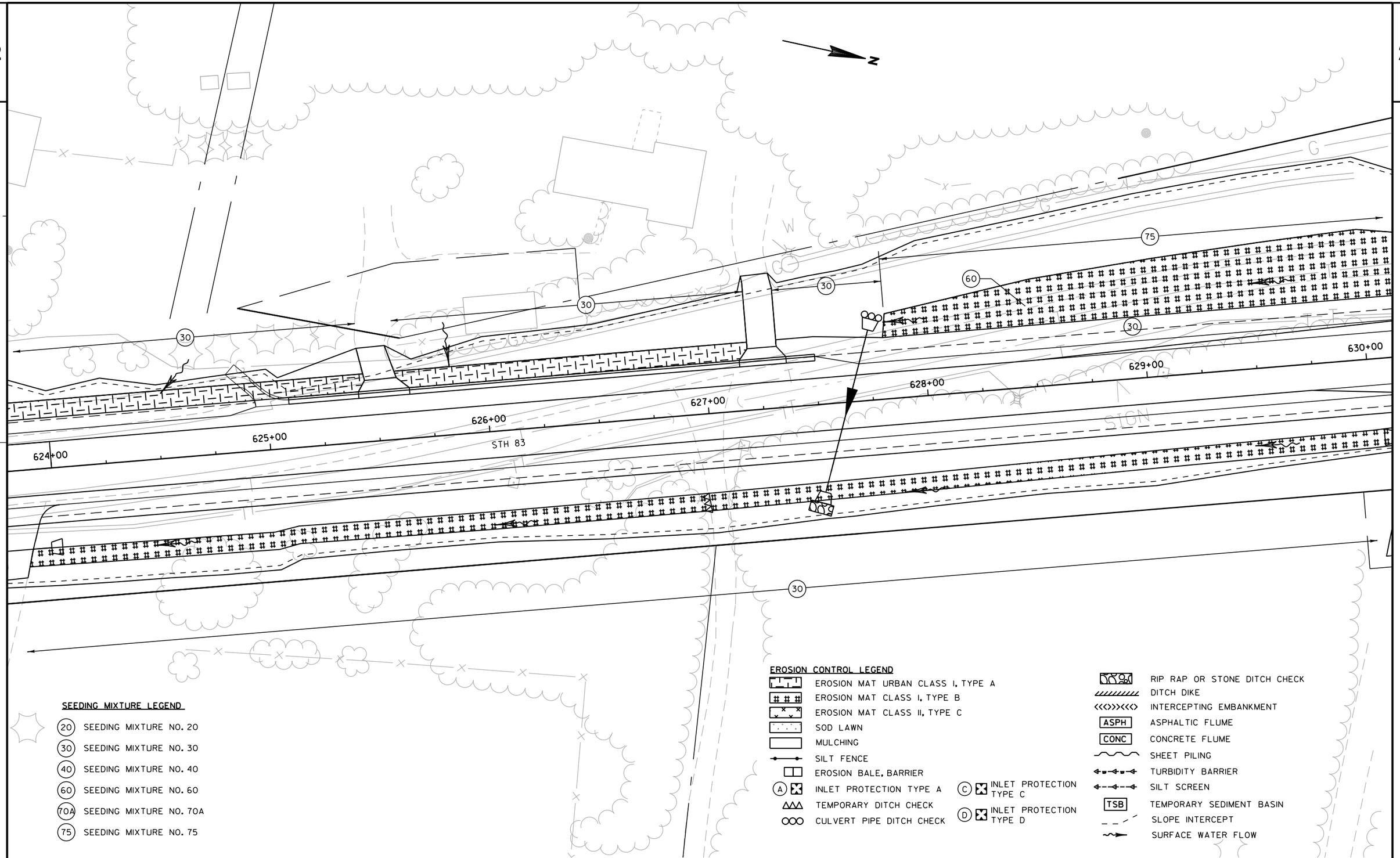
30

30

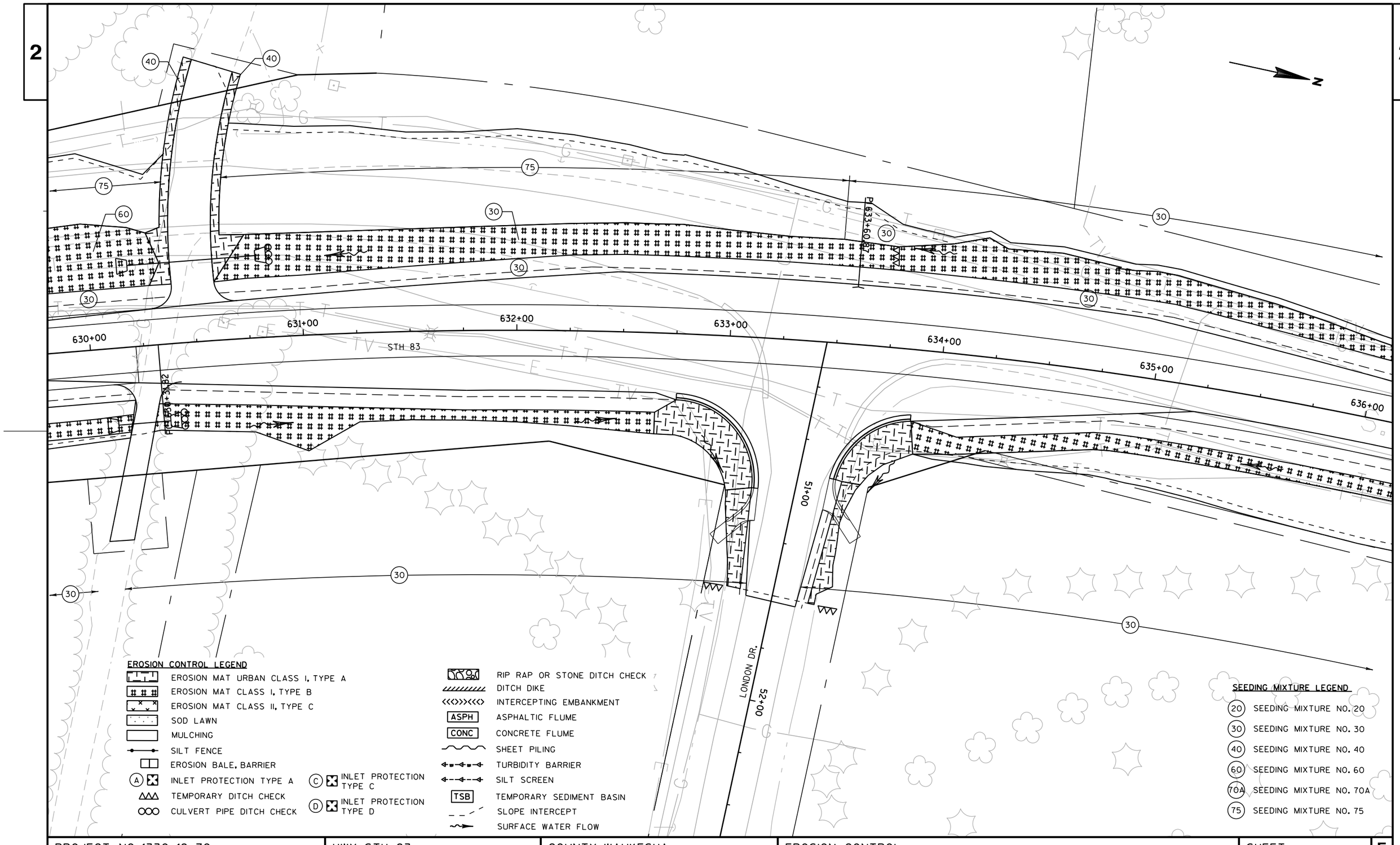
30

2

2


N
30
30
30
60
75
30
624+00
625+00
626+00
627+00
628+00
629+00
630+00
STH 83
SIGN
G
W
T
E
T
T
T

2



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB — TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 128 E

2

N

30

30

636+00 637+00 638+00 639+00 640+00 641+00 642+00

S.T.H. 83

STH 83

PT 636+84.09

30

SEEDING MIXTURE LEGEND

(20) SEEDING MIXTURE NO. 20
(30) SEEDING MIXTURE NO. 30
(40) SEEDING MIXTURE NO. 40
(60) SEEDING MIXTURE NO. 60
(70A) SEEDING MIXTURE NO. 70A
(75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 129	E

2

N

30

642+00 643+00 644+00 645+00 646+00

MATCH LINE
STA: 646+00

PI 646+11.10

+66.0
57.0' RT

+53.0
66.5' RT

+00.0
57.0' RT

+28.7
126.5' RT

LOW AREA
WATER

HARVEST VIEW DR.

30

30

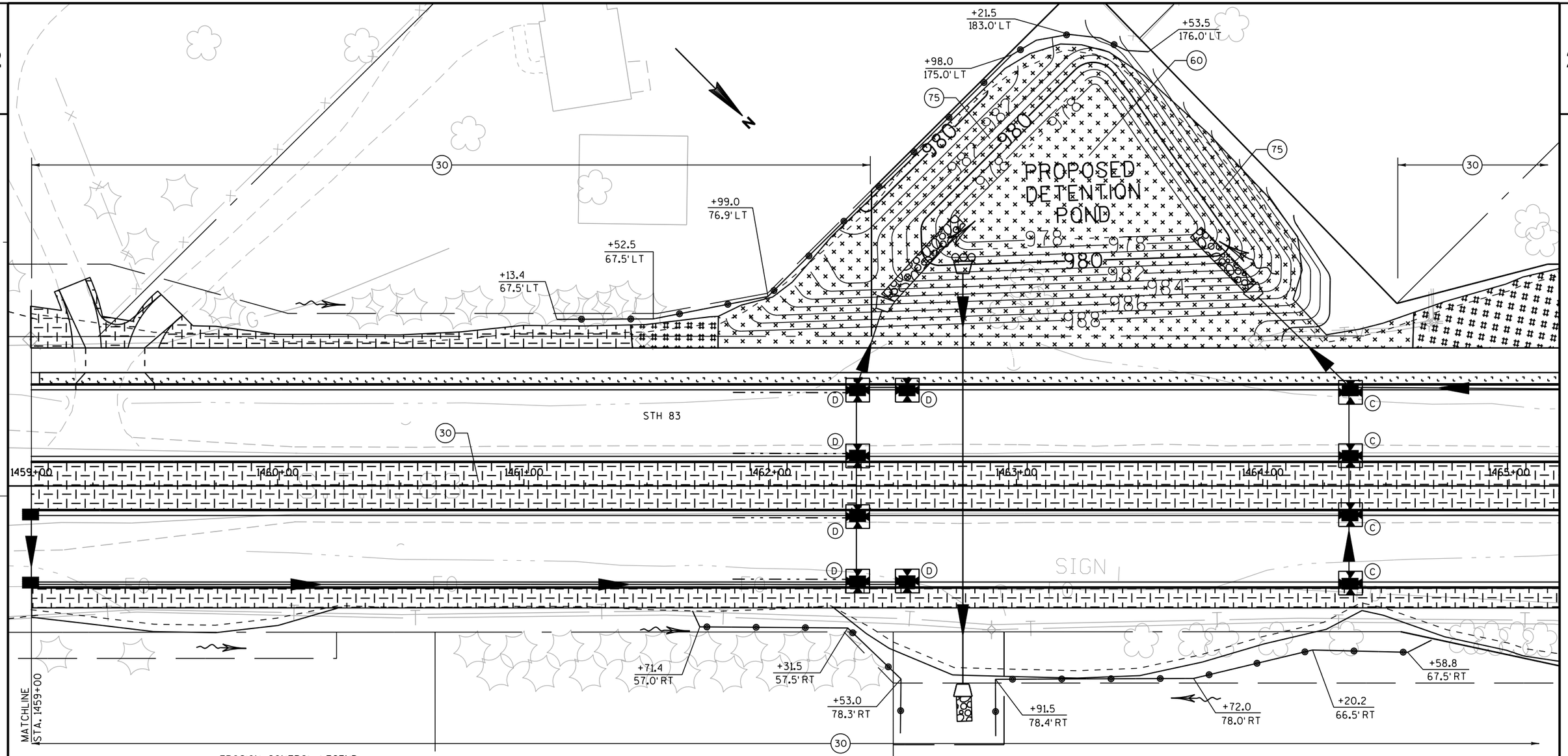
SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 130	E



EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 131	E

2

2

+87.5
84.0' LT

+45.5
68.6' LT

+05.4
74.8' LT

+20.5
96.6' LT

+49.0
115.7' LT

+54.3
132.0' LT

+97.0
132.0' LT

+55.0
120.0' LT

PROPOSED SHALLOW DETENTION POND

60 FLAT AREA ONLY

STH 83

1465+00

1465+93.50 PC

1466+00

1467+00

1468+00

1469+00

1470+00

1471+00

1472+00

+05.7
73.3' RT

+93.4
71.7' RT

+40.0
71.7' RT

+66.2
68.5' RT

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 132 E

2

N

PT 48+49.97

PORTHAMEL CT.

49+00

48+00

+65.7
82.2' LT

+90.3
69.0' LT

+08.8
65.5' LT

+61.9
68.3' LT

+93.6
67.3' LT

+10.8
65.0' LT

STH 83

1473+00

1474+00

1474+00

PT 45+82.69

1475+00

1476+00

1477+00

1473+23.94

+88.0
63.0' RT

+01.0
66.0' RT

RUINS

RUINS

FIRESTATION

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB — TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

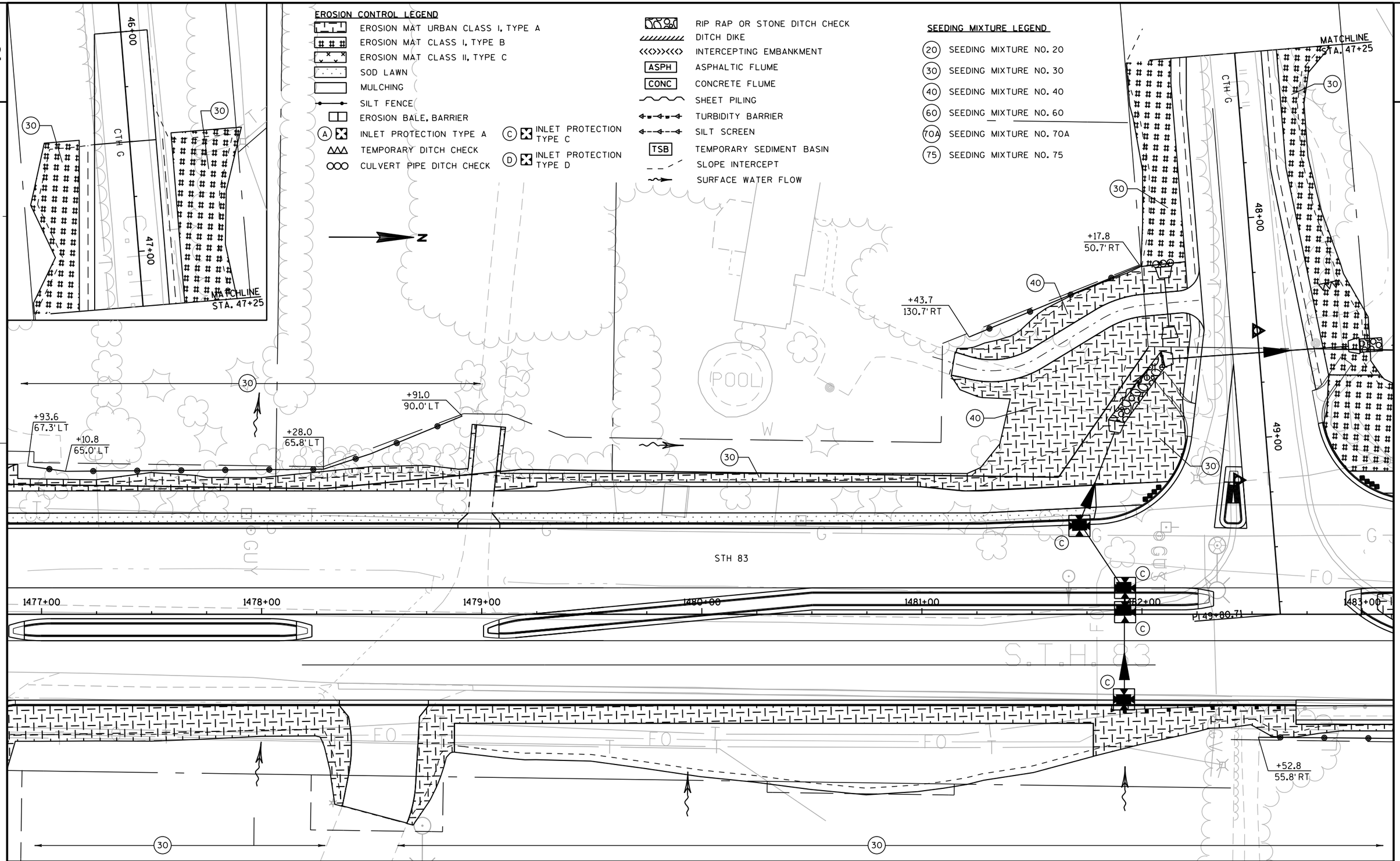
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 133 E

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB — TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 134 E

2

2

SEEDING MIXTURE LEGEND

(20) SEEDING MIXTURE NO. 20
(30) SEEDING MIXTURE NO. 30
(40) SEEDING MIXTURE NO. 40
(60) SEEDING MIXTURE NO. 60
(70A) SEEDING MIXTURE NO. 70A
(75) SEEDING MIXTURE NO. 75

N

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET	E

FILE NAME : J:\projects\d2_13301883\022110_EC.DGN PLOT DATE : 06-SEP-2013 17:48 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

N

SALEM CEMETERY

1489+00 1490+00 1491+00 1492+00 1493+00 1494+00 1495+00

PL 1490+54.04

PL 1495+09.47

STH 83

PL 1492+81.91

30 FRONT SLOPE AREA

60 FLAT AREA

BACK SLOPE AREA (75)

PROPOSED DETENTION POND

SIGN

FO C T

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

SALEM CEMETERY

N

S. WELSH RD.

49+00

50+00

51+00

52+00

E. WELSH RD.

STH 83

PI 1495+09.47

PI 1496+89.91

PI 1498+04.61

PI 1499+19.29

PC 50+60.16

PI 1500+33.96

1495+00

1496+00

1497+00

1498+00

1499+00

1500+00

1501+00

30

75 LIMITS

A

C

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 137 E

2

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

N

STH 83

S.T.H. 83

1501+00 1502+00 1503+00 1504+00 1505+00 1506+00 1507+00

+24.3
67.6' RT

+95.5
57.4' RT

LOW AREA

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 138 E

FILE NAME : J:\projects\d2_13301883\022113_EC.DGN PLOT DATE : 06-SEP-2013 17:49 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

BLDG

EXISTING PRIVATE DETENTION POND

BENTON CT.

STH 83

PT 1509+42.63

PT 1508+27.37

PT 1510+57.87

1507+00 1508+00 1509+00 1510+00 1511+00 1512+00 1513+00

W. SOUTH ST.

5+00

+18.6 57.9' RT

+97.4 58.2' RT

+48.0 93.8' RT

+43.1 76.0' RT

+53.2 92.0' RT

+02.0 62.7' RT

+49.4 54.7' RT

+87.5 55.7' RT

+95.3 65.6' RT

+05.3 66.0' RT

+34.8 64.4' RT

+97.0 62.8' RT

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 139 E

2

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PI 50+00.00

50+00

W.CRIGLASS RD.

51+00

52+00

STH 83

13+00

1514+00

1515+00

PI 52+25.97

1516+00

1517+00

1518+00

1519+00

PI 52+29.34

53+00

W.CRIGLASS RD.

+97.0
62.8' RT

+35.4
65.0' RT

POOL

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 140	E

FILE NAME : J:\projects\d2_13301883\022115_EC.DGN PLOT DATE : 06-SEP-2013 17:49 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECK
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE DITCH CHECK
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB — TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROPOSED DETENTION POND

988 987 989 990 991 992

LIMITS (75) (40) (60) (30)

+74.5 99.0' LT
+88.0 95.3' LT
+59.4 77.3' LT
+79.0 80.5' LT
+02.8 71.0' LT
+24.8 72.0' LT

PI 51+95.75
PI 49+92.69

STH 83

1520+00 1521+00 1522+00 1523+00 1524+00 1525+00

50+00 51+00 52+00

W. MAIN ST. CTH G

MATCHLINE STA 52+00

+51.8 97.5' RT
+09.5 83.6' RT
+96.0 87.3' RT
+69.4 101.2' RT
+68.8 133.8' RT

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 141	E

2

2

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

N

CYMRIC CT.

48+00

PT 48+52.12

49+00

STH 83

1526+00

1527+00

PT 49+93.81

1528+00

1529+00

1530+00

1531+00

MATCHLINE STA. 1531+50

+53.5 75.4' RT

+20.0 74.0' RT

+36.4 88.5' RT

+45.0 113.3' RT

+27.2 64.3' RT

+36.8 60.5' RT

+29.6 64.6' RT

+57.1 64.1' RT

+81.7 86.8' RT

+67.6 72.2' LT

+96.6 83.1' LT

+50.0 83.3' LT

SEEDING MIXTURE LEGEND

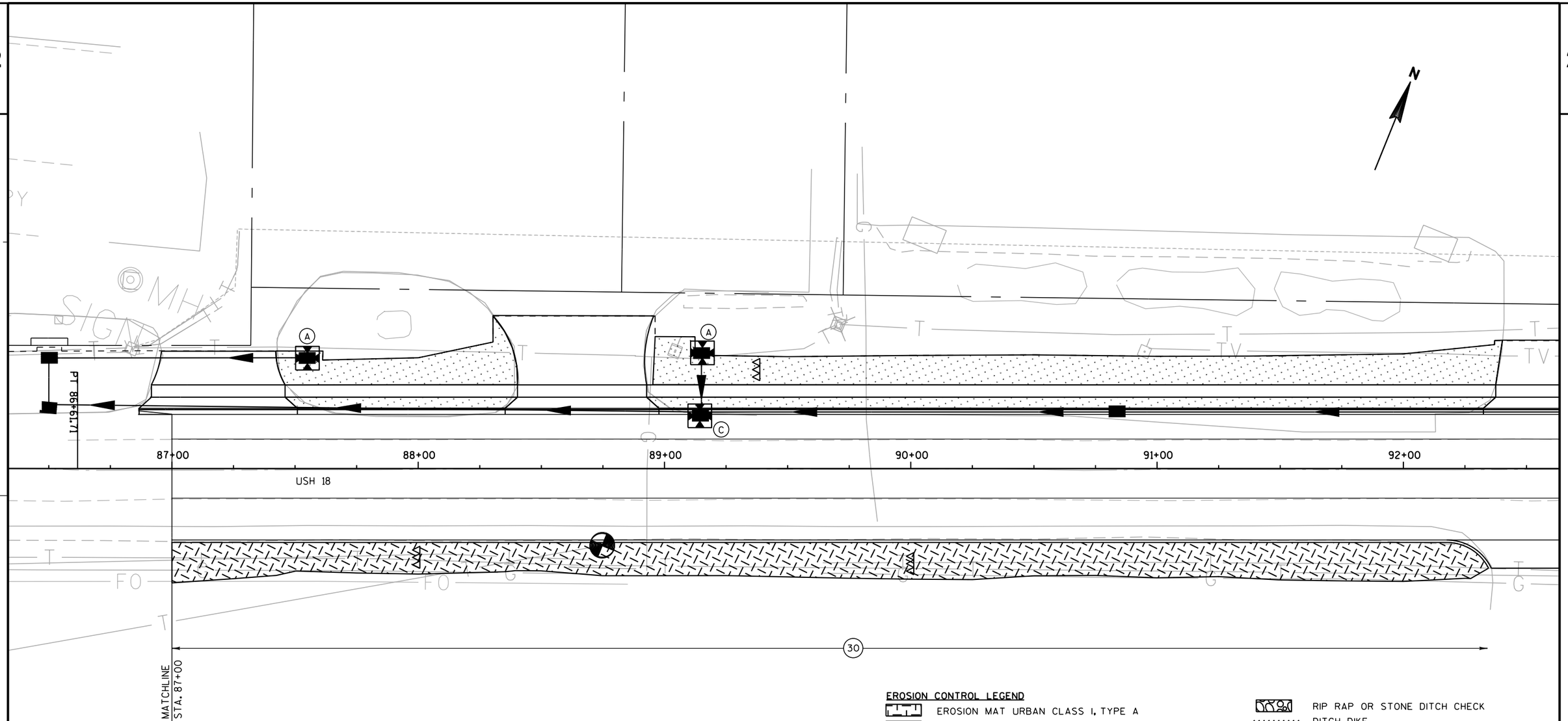
- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 142 E

FILE NAME : J:\projects\d2_13301883\022117_EC.DGN PLOT DATE : 06-SEP-2013 17:49 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB — TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL - USH 18	SHEET 143	E

SEEDING MIXTURE LEGEND

(20) SEEDING MIXTURE NO. 20
(30) SEEDING MIXTURE NO. 30
(40) SEEDING MIXTURE NO. 40
(60) SEEDING MIXTURE NO. 60
(70A) SEEDING MIXTURE NO. 70A
(75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB — TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

FUTURE DRIVEWAY
OAK CREST
PROPOSED DRY POND B
1000
PC: 20+96.01
PI: 20+00.00
USH 18
MATCH LINE STA 18+64
BP: 18+37.46
MATCH LINE STA 18+64
+80.8 16.7' RT (SR)
+80.2 36.3' RT (SR)
+56.0 42.4' RT (SR)
+52.0 69.5' RT (SR)
+62.2 72.8' RT (SR)
+01.2 33.6' RT (SR)
92+00
93+00
94+00
95+00
96+00
97+00
98+00

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL - USH 18	SHEET 144 E

FILE NAME : J:\projects\d2_13301883\022119_EC.dgn PLOT DATE : 06-SEP-2013 17:49 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

2

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

N

PT 48+63.38

HIGH MEADOW LN.

49+00

50+00

51+00

52+00

+11.8
104.0' LT

+54.0
105.0' LT

+08.0
85.3' LT

+51.8
80.1' LT

+99.0
81.8' LT

PT 1551+55.57

STH 83

1553+00

1554+00

1555+00

1556+00

1557+00

MATCHLINE STA. 1551+11.80

+68.4
85.2' RT

+39.0
78.3' RT

+74.3
78.3' RT

+11.8
98.7' RT

PC 51+38.37

30 INSIDE 15'

15'

20

P151+84.65

PT 52+29.88

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 145 E

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

BOYS SCHOOL ROAD

48+00

49+00

PI 1560+46.71

+50.0
130.0' LT

+48.6
107.5' LT

+11.9
90.4' LT

+83.4
104.4' LT

+05.5
98.4' LT

+84.1
97.8' LT

+86.7
87.6' LT

STH 83

1557+00

1558+00

1559+00

1560+00

1561+00

1562+00

1563+00

PI 50+00.00

PC 1557+44.59

30 INSIDE 15'

15'

30 INSIDE 15'

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 146	E

2

+34.8
118.4' LT

+80.8
125.2' LT

+54.6
132.5' LT

+24.1
119.5' LT

+39.7
112.5' LT

70A

+00.5
111.8' LT

+01.2
128.4' LT

+64.8
124.0' LT

70A

+47.3
111.1' LT

+14.5
102.6' LT

+17.7
97.2' LT

HEAVY DUTY SILT FENCE

+66.4
85.6' LT

PT 1563+34.88
BEGIN SB

PC 1566+38.59
SB

PC 1566+49.33
SB

C

30 INSIDE 15'

30 INSIDE 15'

1564+00

1565+00

1566+00

1567+00

1568+00

1569+00

STH 83

30

C

1564+00

1565+00

1566+00

1567+00

1568+00

1569+00

PT 1563+46.41
SB

PI 1563+34.88
BEGIN NB

PC 1566+50.09
NB

PI 1566+86.48
NB

C

A

51+00

30

30

30

40

40

GLACIER PASS

52

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 147 E

FILE NAME : J:\projects\d2_13301883\022122_EC.DGN PLOT DATE : 06-SEP-2013 17:49 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

2

+85.6
105.8' LT (NB)

HEAVY DUTY SILT FENCE

+93.5
90.4' LT (NB)

+95.0
101.3' LT (NB)

70A

+15.4
103.5' LT (NB)

+05.2
100.0' LT (NB)

30 INSIDE 15'

1569+00 1570+00 1571+00 1572+00 1573+00 1574+00 1575+00

STH 83

STH 83 ℄ NB

STH 83 ℄ SB

PT 1568+28.02

C

30

F O

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- (C) INLET PROTECTION TYPE C
- TEMPORARY DITCH CHECK
- (D) INLET PROTECTION TYPE D
- CULVERT PIPE DITCH CHECK
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET E

FILE NAME : J:\projects\d2_13301883\022123_EC.DGN PLOT DATE : 06-SEP-2013 17:49 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 40:1

2

2

+62.9
95.6'LT (NB)

70A

HEAVY DUTY SILT FENCE

+23.0
82.2'LT (NB)

+00.0
80.7'LT (NB)

30 INSIDE 15'

1575+00

STH 83 ℄ NB

1576+00

1577+00

1578+00

1579+00

1580+00

STH 83 ℄ NB

1581+00

1575+00

STH 83 ℄ SB

STH 83

NB PC 1575+25.48

NB PT 1579+68.88
PI 1579+69.85
END SB

F O

C

30

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 149	E

2

N

FUTURE 4-LANE
SLOPE INTERCEPT

+00.0
80.7'LT (NB)

+05.5
66.7'LT (NB)

+19.5
60.0'LT (NB)

+03.0
70.0'LT (NB)

+51.2
22.4'LT (NB)

70A

HEAVY DUTY SILT FENCE

30 INSIDE 15'

1581+00

1582+00

1583+00

1584+00

1585+00

1586+00

STH 83

STH 83 ℄ NB

℄ NB
Sta 1584+33.48

END NB
PI 1586+47.12

PI NB 1582+02.05

30

50+00

51+00

PC 51+21.58

GLACIER PASS

F O

SEEDING MIXTURE LEGEND

- (20) SEEDING MIXTURE NO. 20
- (30) SEEDING MIXTURE NO. 30
- (40) SEEDING MIXTURE NO. 40
- (60) SEEDING MIXTURE NO. 60
- (70A) SEEDING MIXTURE NO. 70A
- (75) SEEDING MIXTURE NO. 75

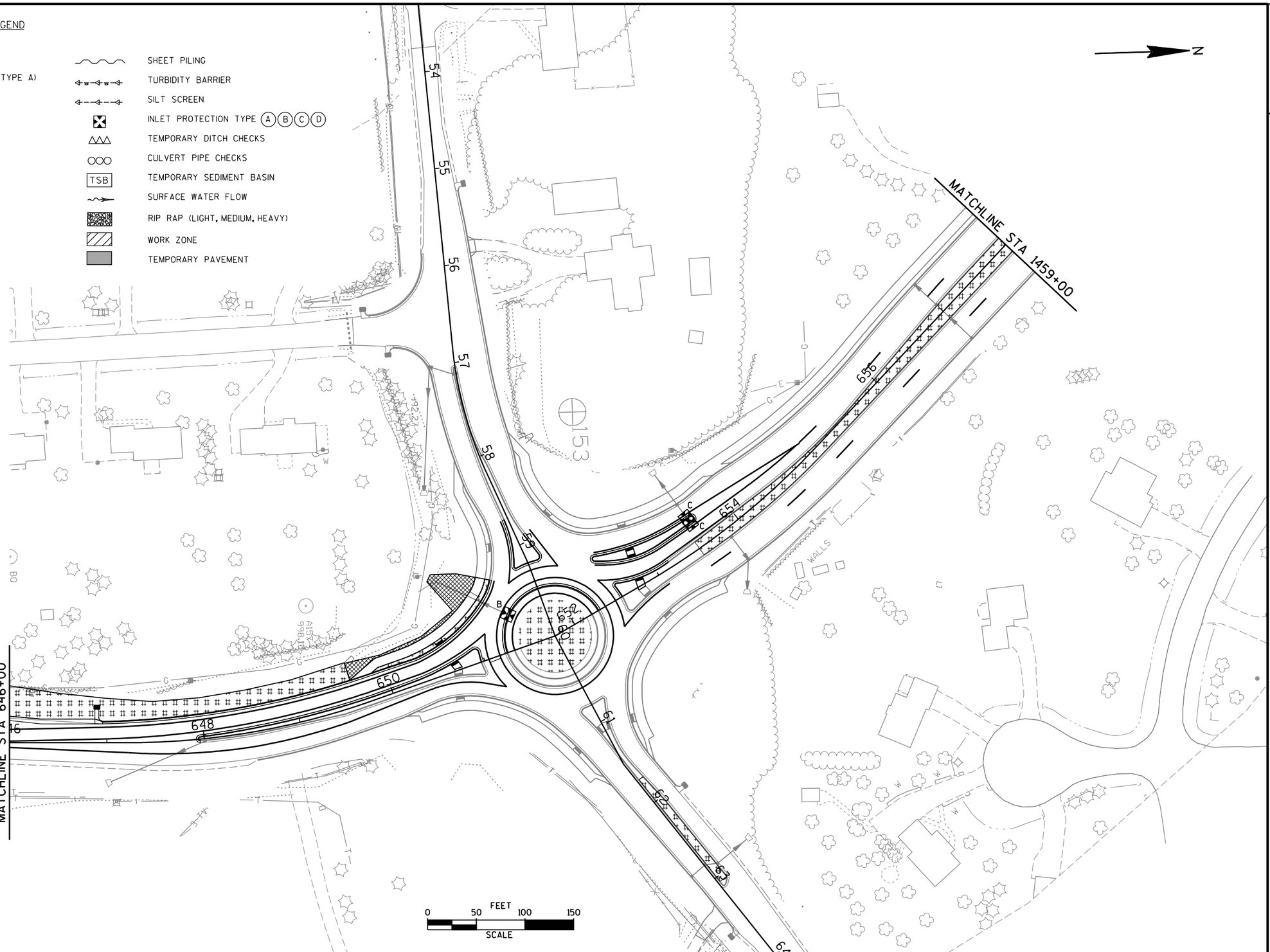
EROSION CONTROL LEGEND

- EROSION MAT URBAN CLASS I, TYPE A
- EROSION MAT CLASS I, TYPE B
- EROSION MAT CLASS II, TYPE C
- SOD LAWN
- MULCHING
- SILT FENCE
- EROSION BALE, BARRIER
- (A) INLET PROTECTION TYPE A
- TEMPORARY DITCH CHECK
- CULVERT PIPE DITCH CHECK
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- RIP RAP OR STONE DITCH CHECK
- DITCH DIKE
- INTERCEPTING EMBANKMENT
- ASPH ASPHALTIC FLUME
- CONC CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- TSB TEMPORARY SEDIMENT BASIN
- SLOPE INTERCEPT
- SURFACE WATER FLOW

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL	SHEET 150	E

LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A)(B)(C)(D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT

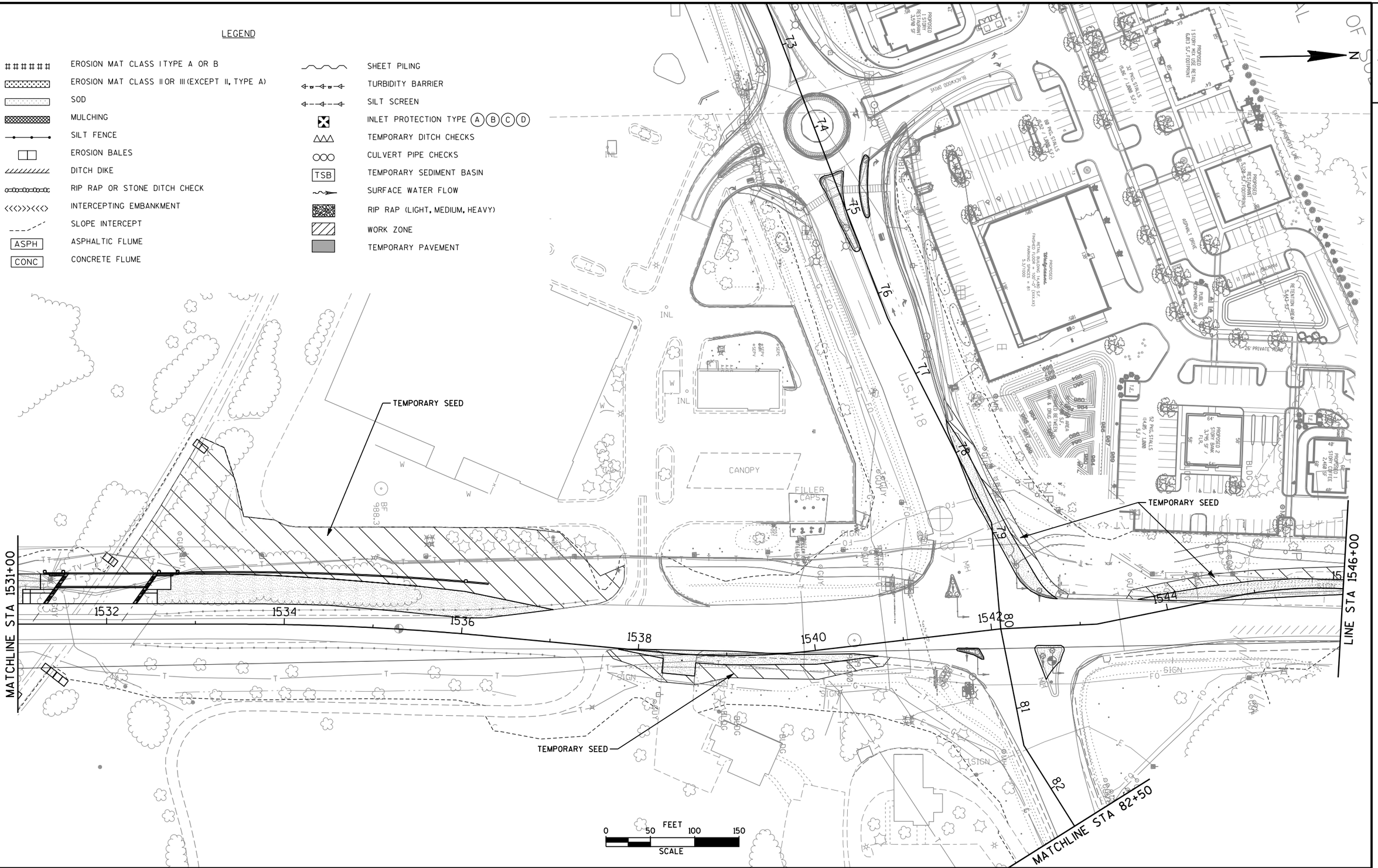


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 4	SHEET 151	E

2

LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPHALTIC FLUME
- CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A) (B) (C) (D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT



0 50 100 150 FEET
SCALE

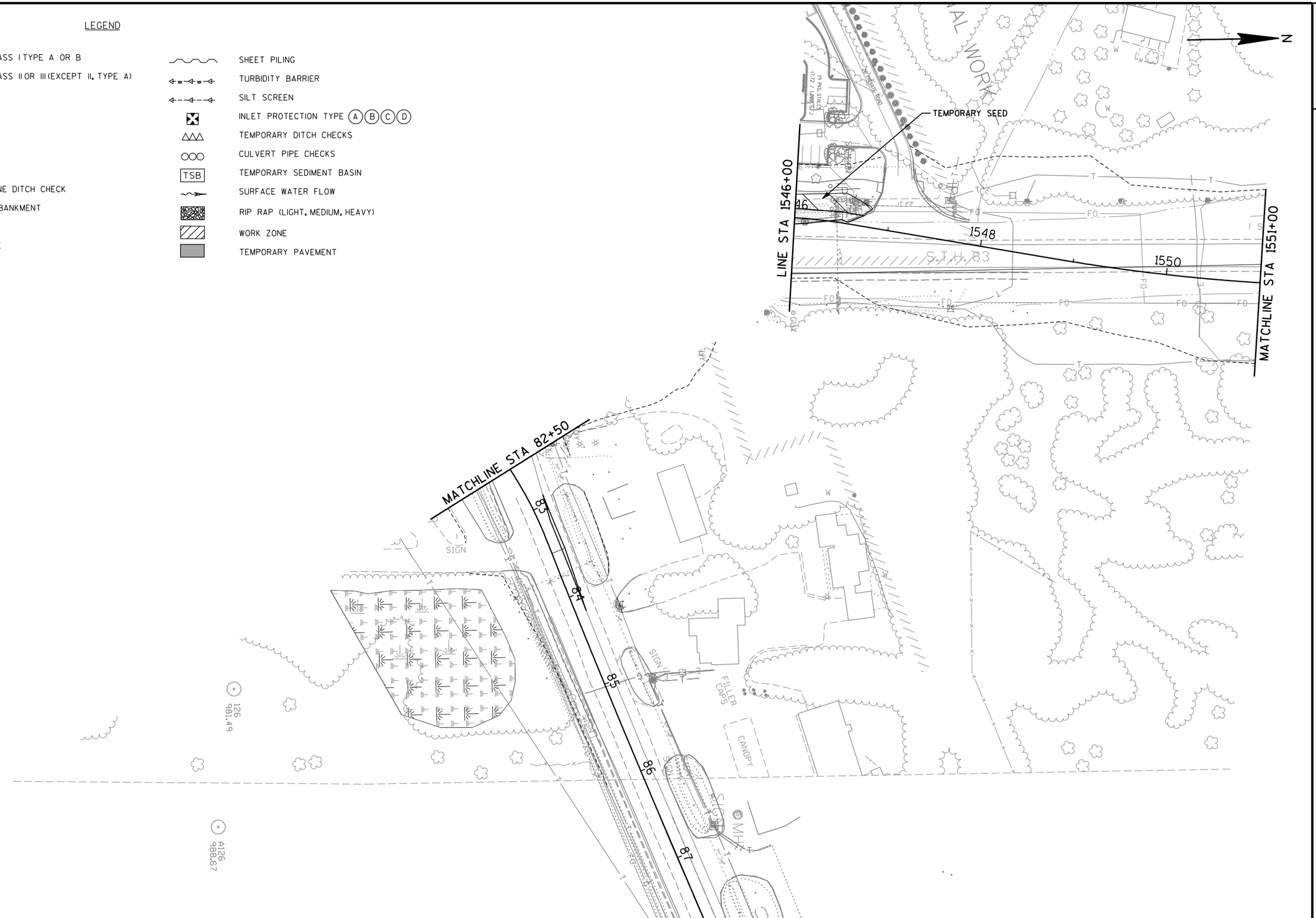
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 1	SHEET 152	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_022106_ecs1.dgn PLOT DATE : 8/2/2013 11:17:25 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 100.0000 FT / IN.

2

LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPHALTIC FLUME (ASPH)
- CONCRETE FLUME (CONC)
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A)(B)(C)(D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TEMPORARY SEDIMENT BASIN (TSB)
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 1	SHEET 153	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_022107_ecs1.dgn PLOT DATE : 8/2/2013 11:18:10 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 100.0000 FT / IN.

WISDOT/CADDS SHEET 42

LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A) (B) (C) (D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT

N

MATCHLINE STA 1459+00

MATCHLINE STA 646+00

TEMPORARY SEED

TEMPORARY SEED

0 50 100 150 FEET

SCALE

2

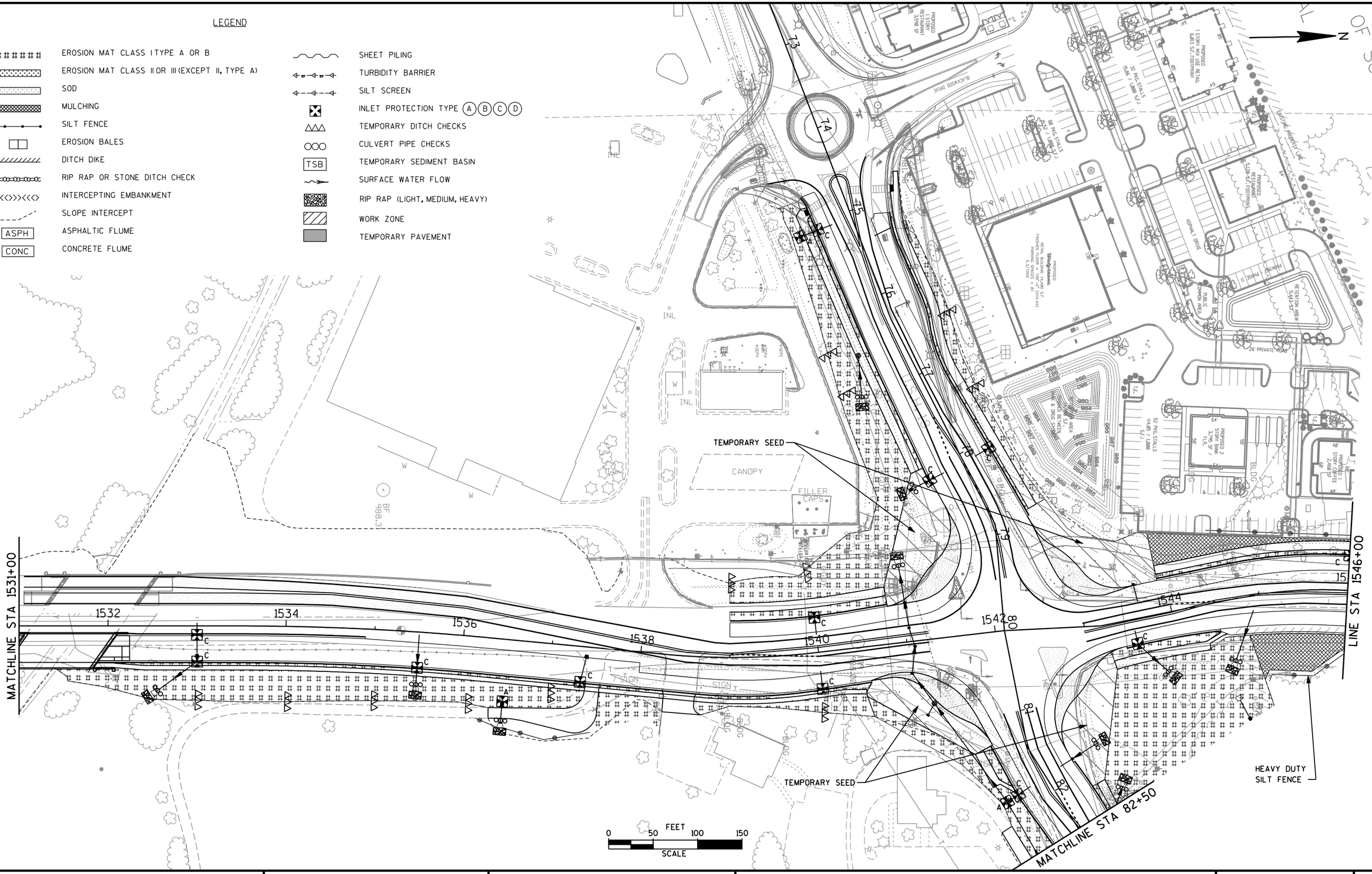
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 1	SHEET 154	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_022102_ecs1.dgn PLOT DATE : 8/2/2013 11:16:38 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) PLOT NAME : PLOT SCALE : 100.0000 FT / IN.
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A)(B)(C)(D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT

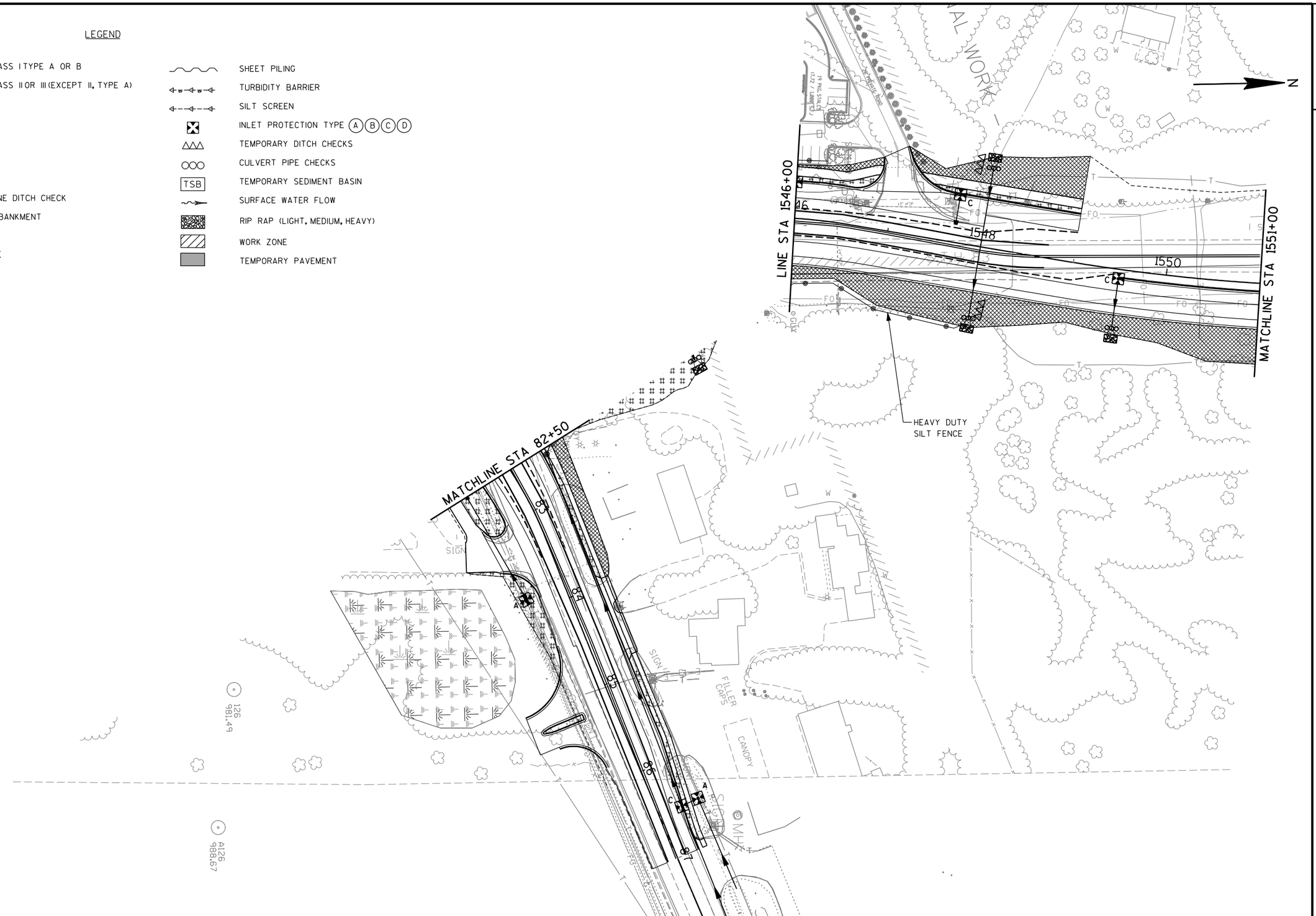


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 2	SHEET 155	E

2

LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A) (B) (C) (D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT



2

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 2	SHEET 156	E

LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A) (B) (C) (D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT

N

MATCHLINE STA 1459+00

MATCHLINE STA 646+00

TEMPORARY SEED

54 55 56 57 58 652 654 656 650 648 646 62 63

WALLS

SIGN

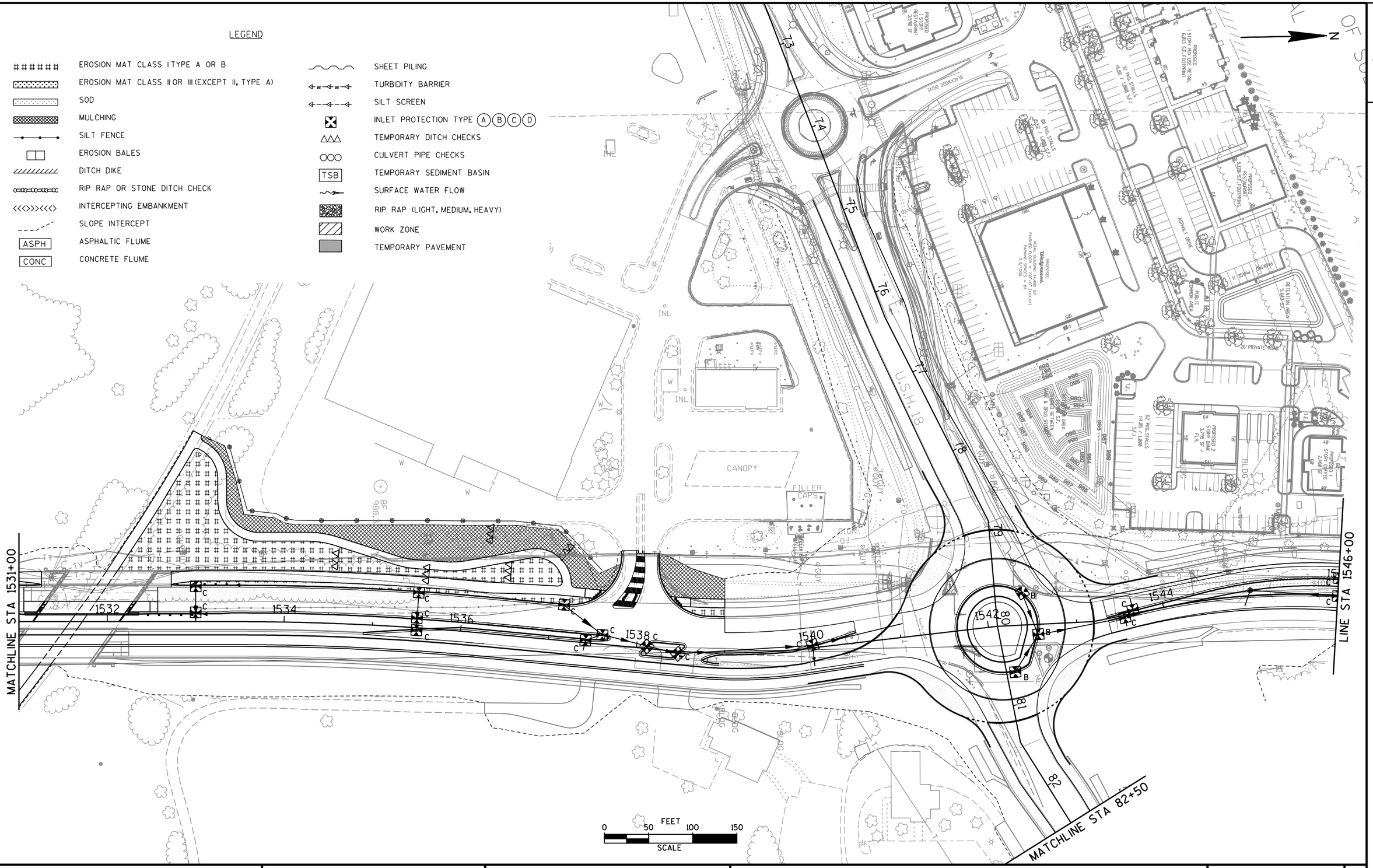
0 50 100 150 FEET

SCALE

2

LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A)(B)(C)(D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 3	SHEET 158	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_022306_ecs3.dgn PLOT DATE : 8/2/2013 11:22:05 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 100.0000 FT / IN.

WISDOT/CADDS SHEET 42

2

LEGEND

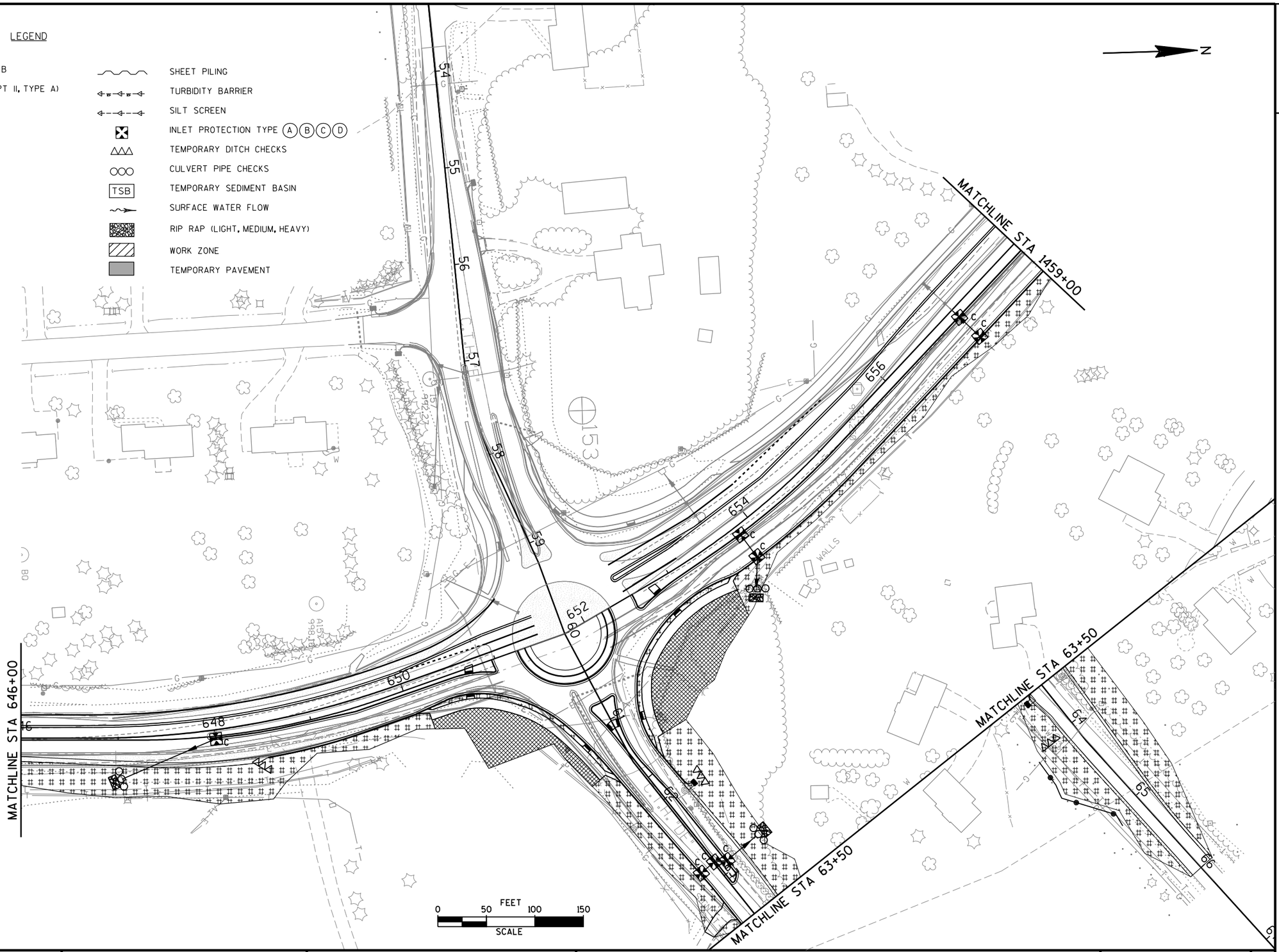
- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A)(B)(C)(D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 3	SHEET 159	E

2

LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A)(B)(C)(D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT



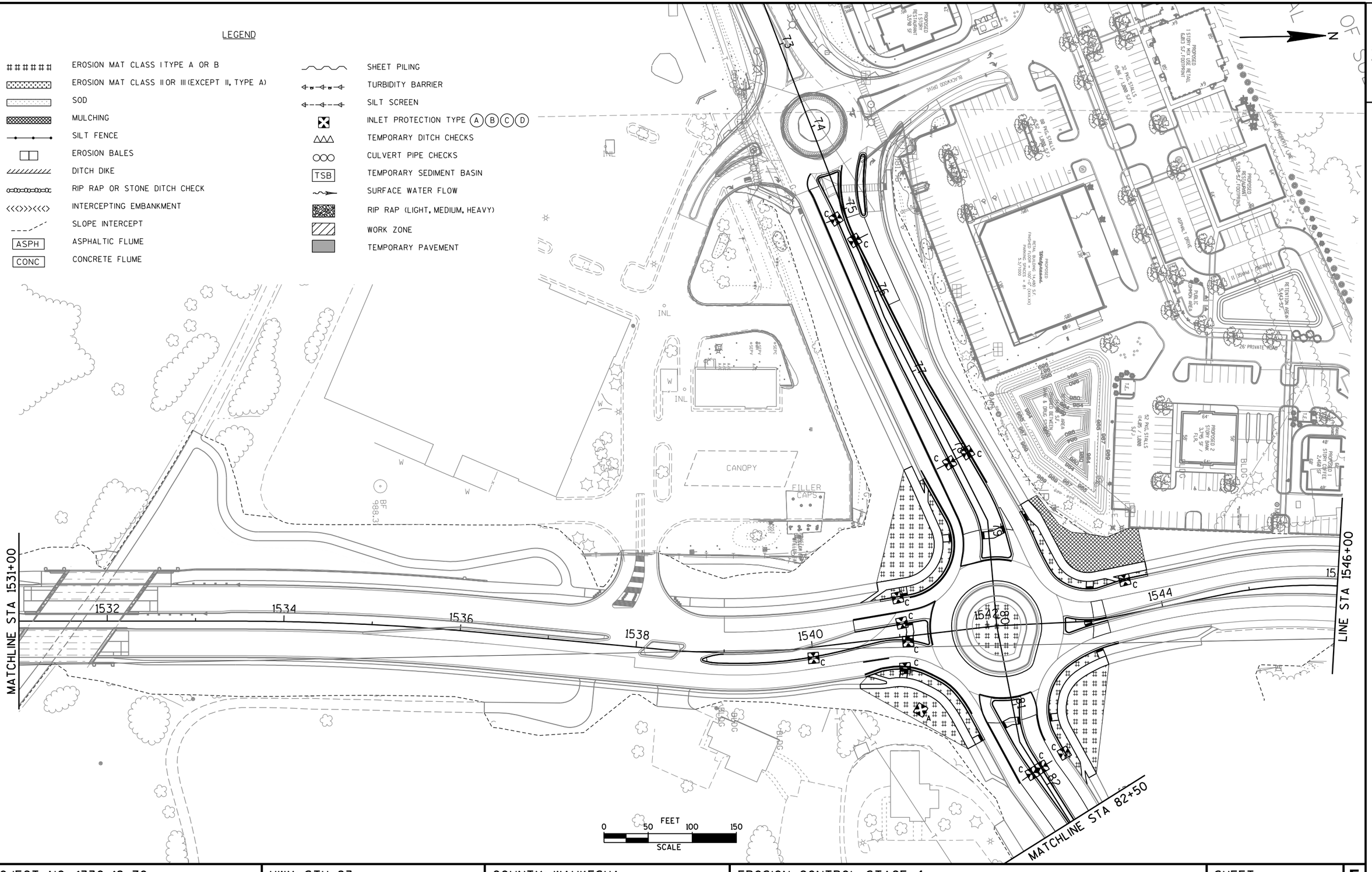
2

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 3	SHEET	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_022302_ecs3.dgn PLOT DATE : 8/2/2013 11:21:06 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 100.0000 FT / IN.
WISDOT/CADDS SHEET 42

LEGEND

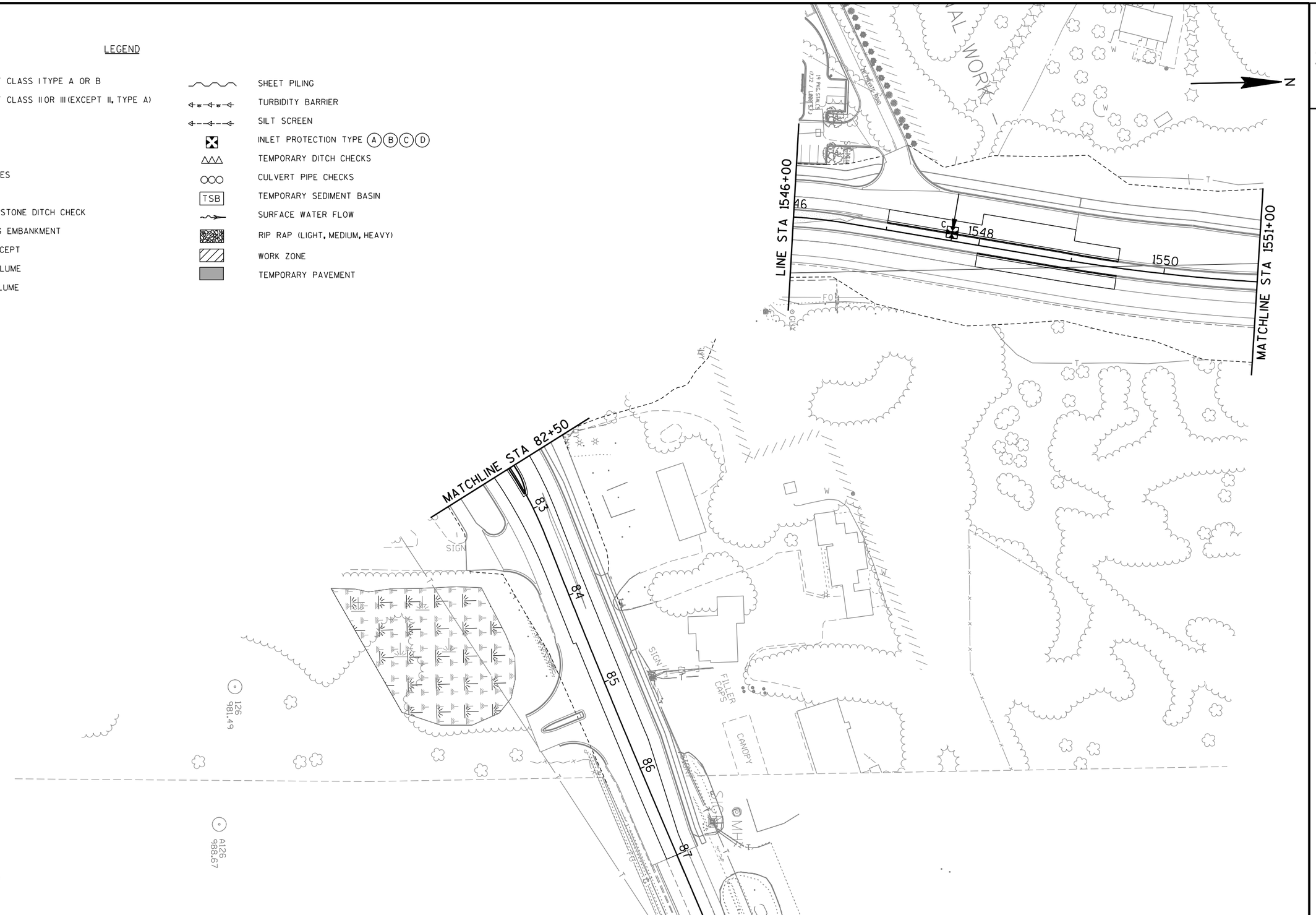
- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A) (B) (C) (D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT



2

LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A)(B)(C)(D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT

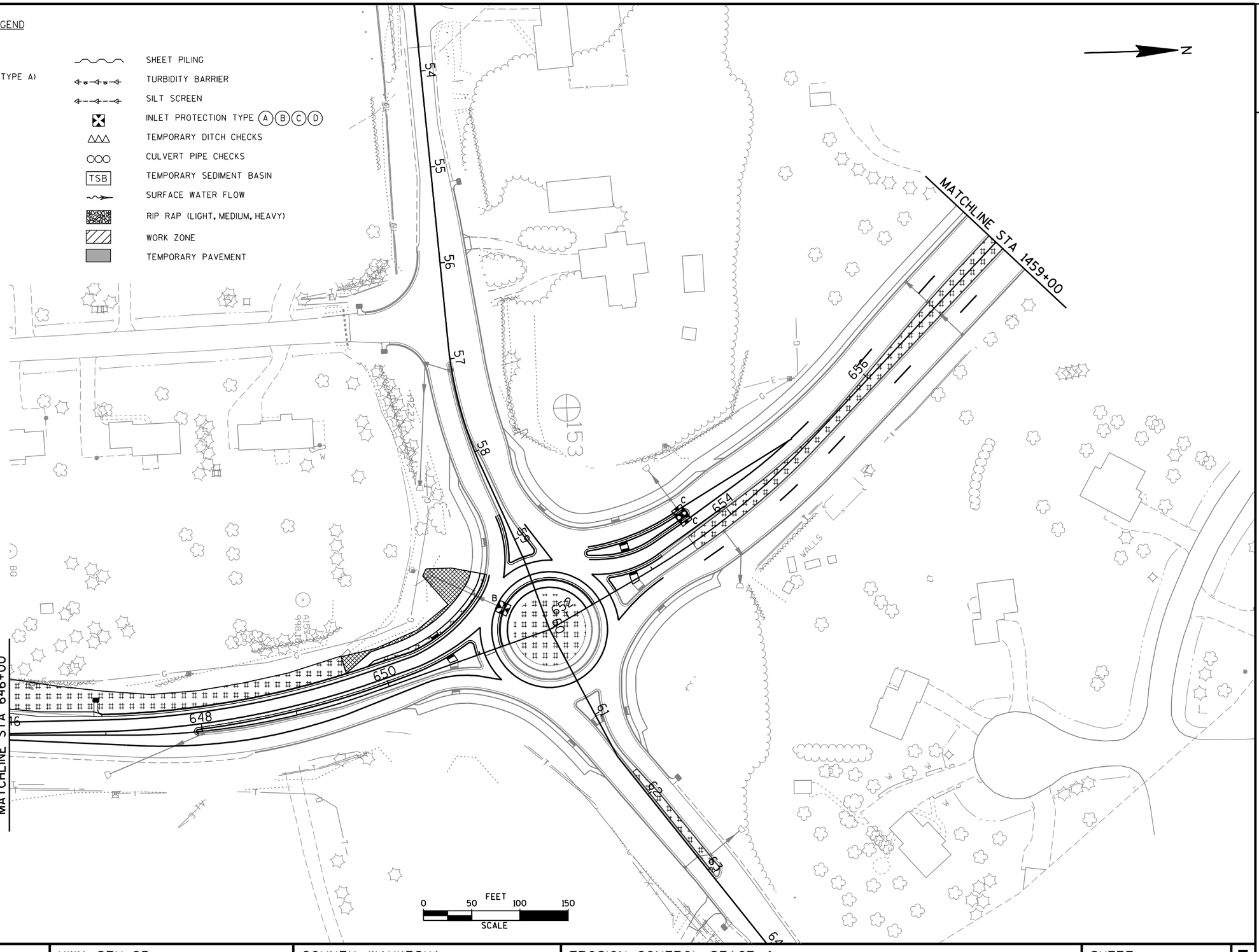


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 4	SHEET 162	E

2

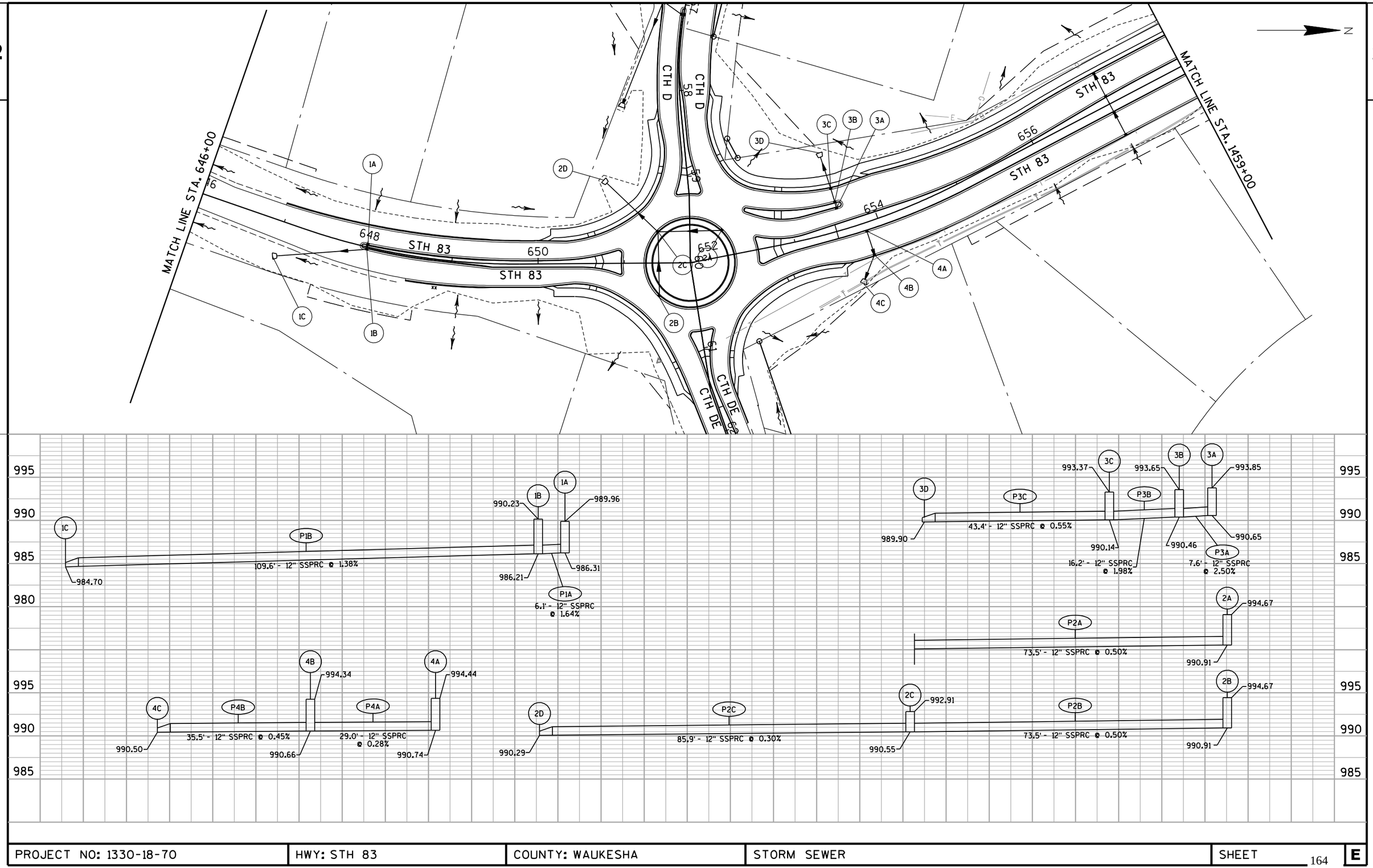
LEGEND

- EROSION MAT CLASS I TYPE A OR B
- EROSION MAT CLASS II OR III (EXCEPT II, TYPE A)
- SOD
- MULCHING
- SILT FENCE
- EROSION BALES
- DITCH DIKE
- RIP RAP OR STONE DITCH CHECK
- INTERCEPTING EMBANKMENT
- SLOPE INTERCEPT
- ASPH — ASPHALTIC FLUME
- CONC — CONCRETE FLUME
- SHEET PILING
- TURBIDITY BARRIER
- SILT SCREEN
- INLET PROTECTION TYPE (A)(B)(C)(D)
- TEMPORARY DITCH CHECKS
- CULVERT PIPE CHECKS
- TSB — TEMPORARY SEDIMENT BASIN
- SURFACE WATER FLOW
- RIP RAP (LIGHT, MEDIUM, HEAVY)
- WORK ZONE
- TEMPORARY PAVEMENT



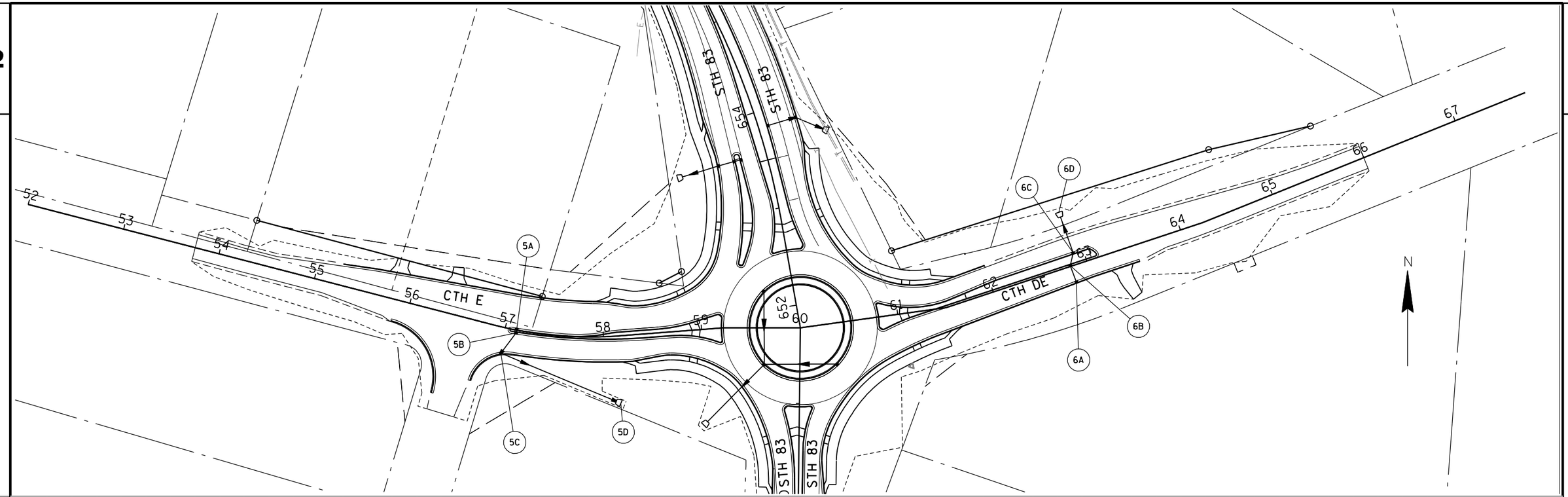
2

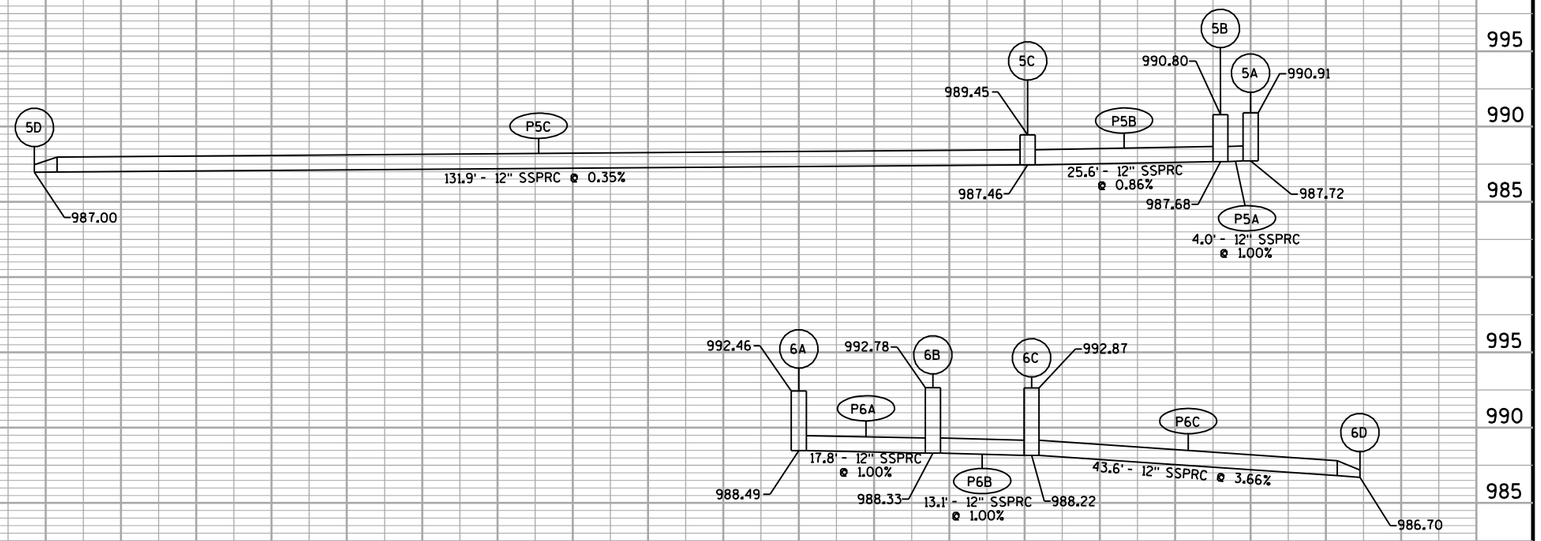
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	EROSION CONTROL STAGE 4	SHEET 163	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 164	E

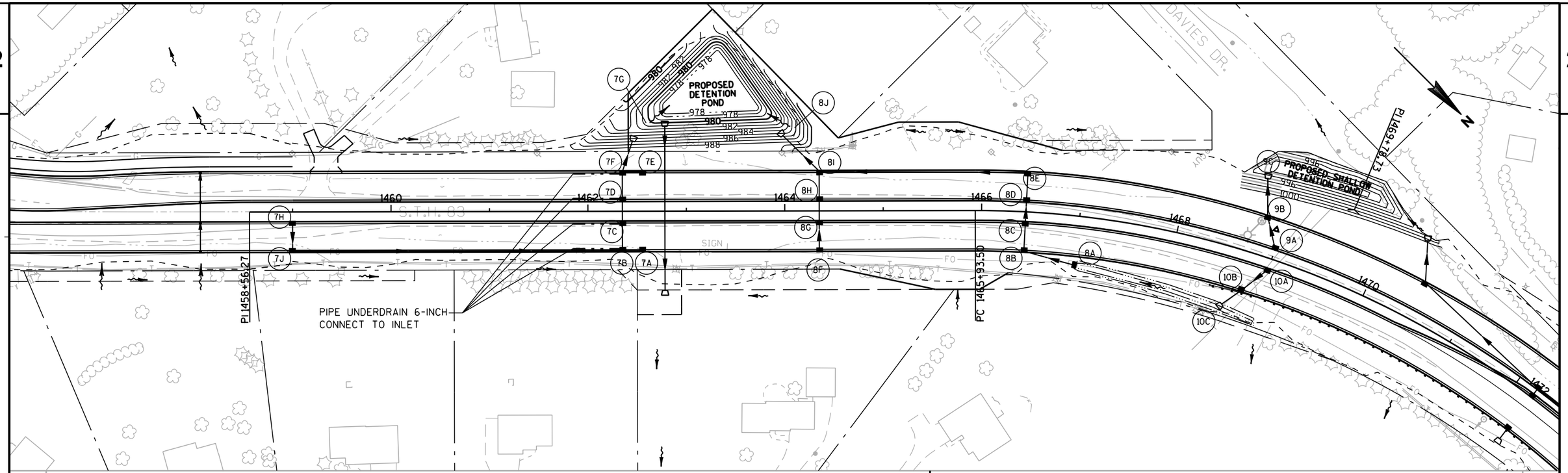
FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_022502_ss.dgn
PLOT DATE : 7/17/2013 3:32:31 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 100.0000 sf / IN.
WISDOT/CADDS SHEET 41a

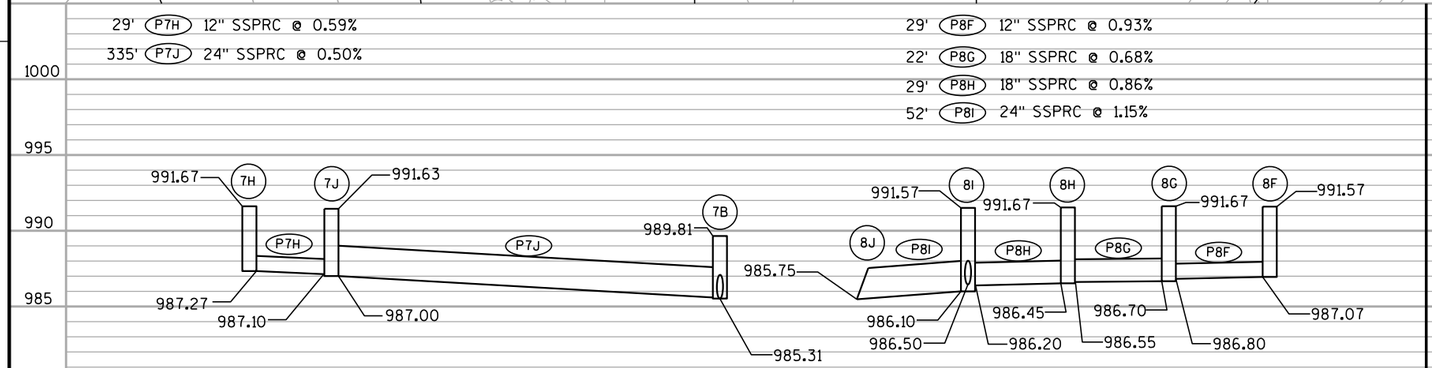


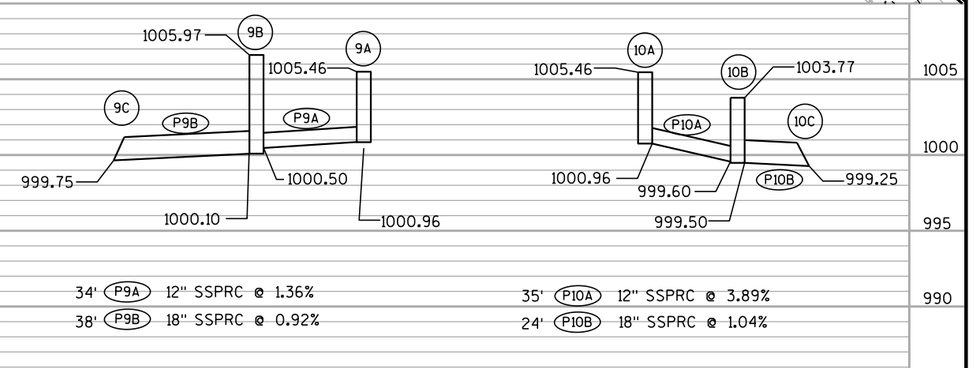


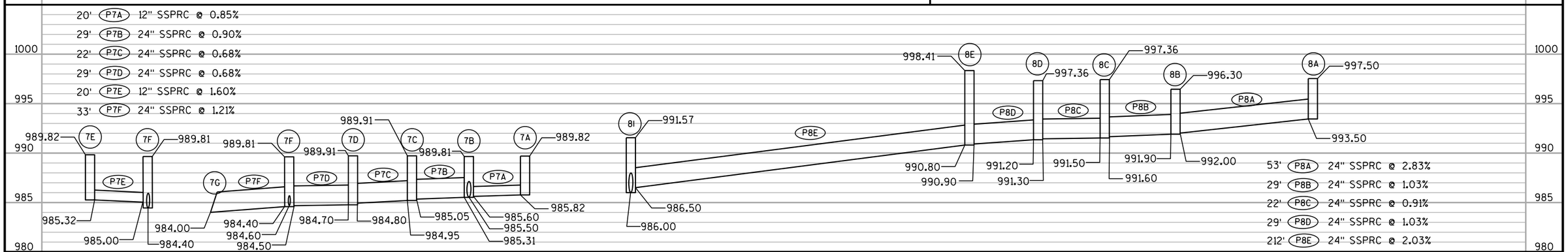
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_022503_ss.dgn
PLOT DATE : 7/17/2013 3:32:59 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 100.5997 sf / IN.
WISDOT/CADDS SHEET 41a

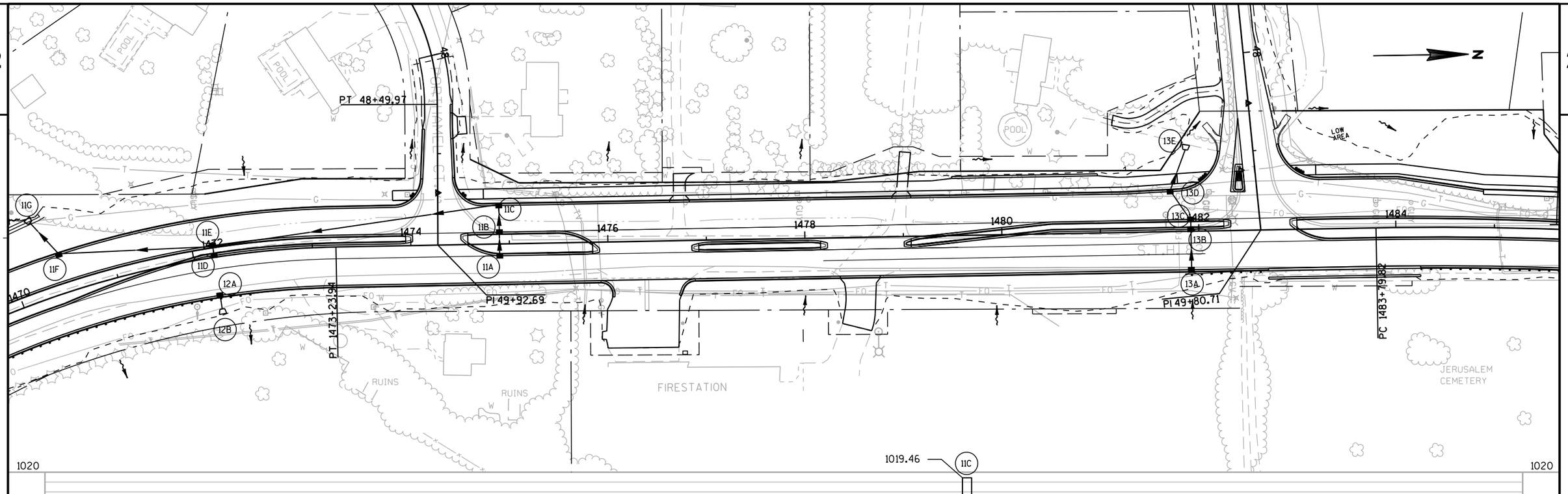


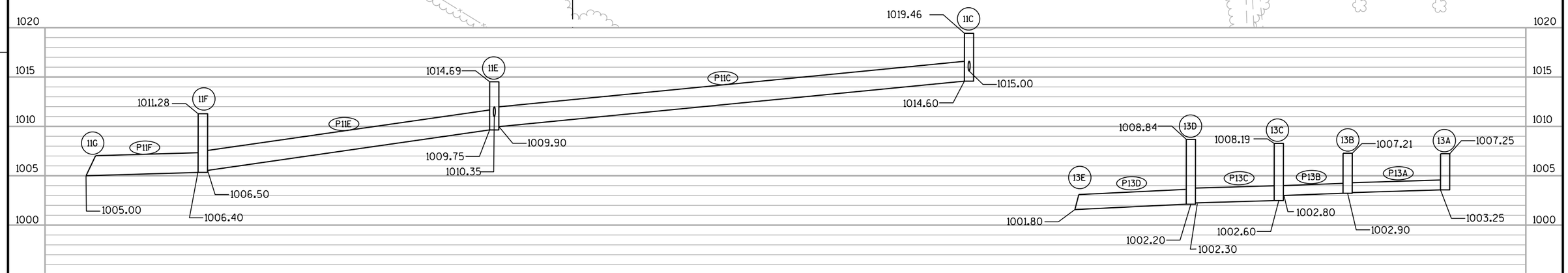






PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 166 E



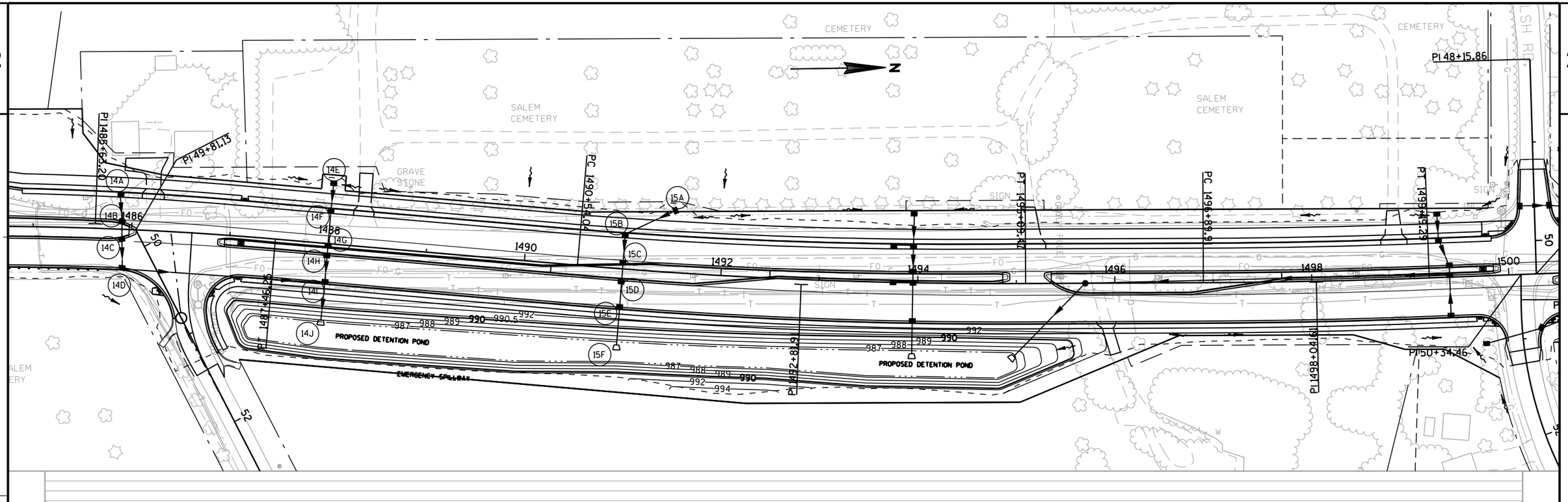


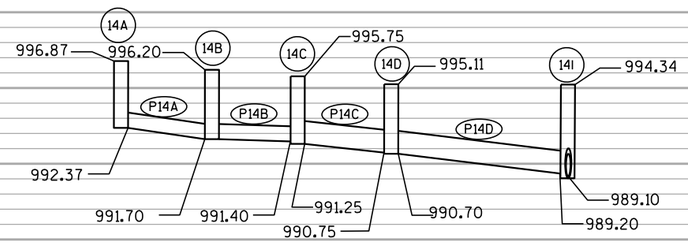
22' P11A 12" SSPRC @ 2.23%
29' P11B 12" SSPRC @ 0.86%
294' P11C 24" SSPRC @ 1.60%
8' P11D 12" SSPRC @ 2.13%
156' P11E 24" SSPRC @ 2.07%
42' P11F 24" SSPRC @ 3.27%

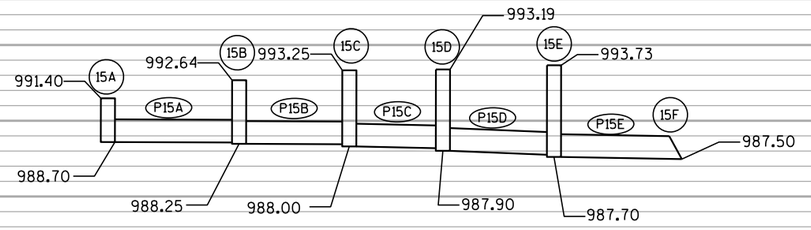
13' P12A 12" SSPRC @ 1.15%

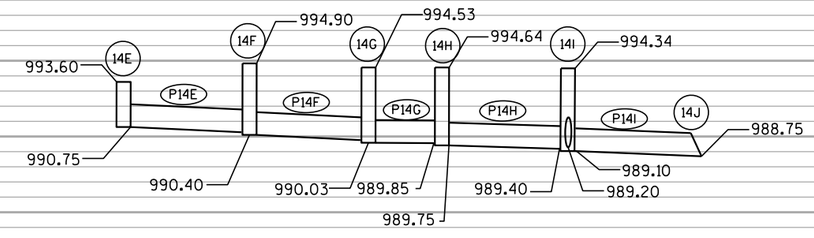
43' P13A 12" SSPRC @ 0.81%
8' P13B 12" SSPRC @ 1.25%
37' P13C 18" SSPRC @ 0.82%
44' P13D 18" SSPRC @ 0.91%

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 167 E





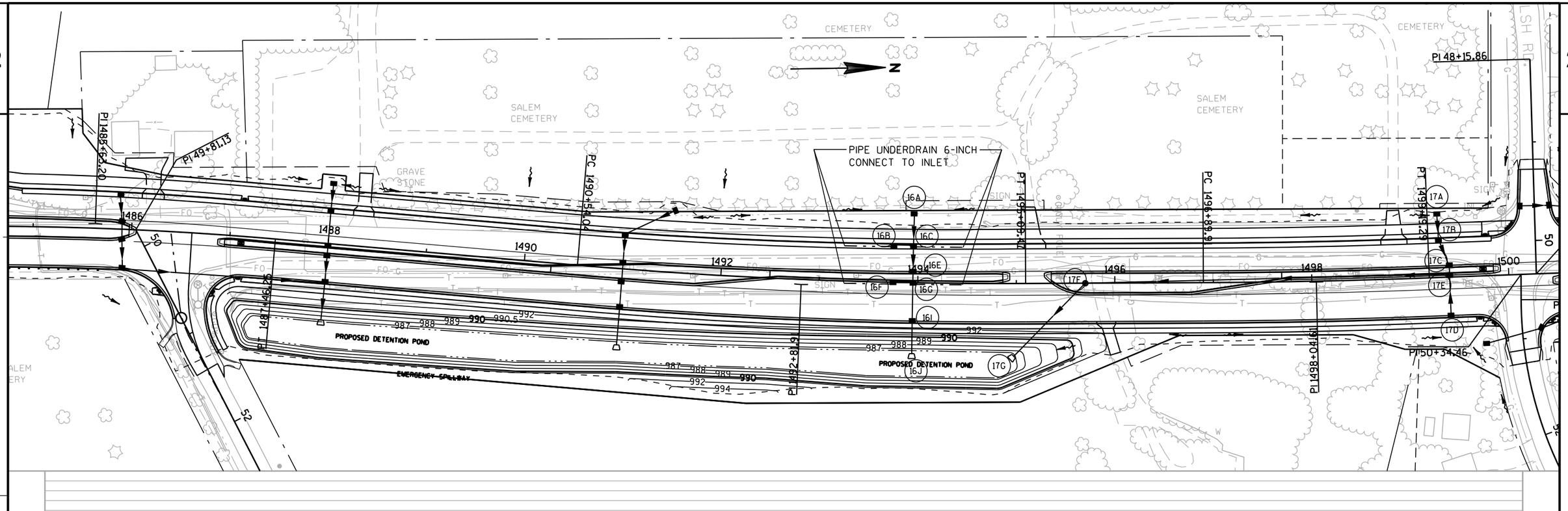




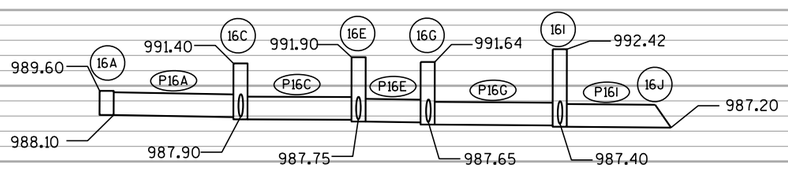
30'	P14A	12" SSPRC @ 2.21%
16'	P14B	12" SSPRC @ 1.91%
31'	P14C	18" SSPRC @ 1.60%
206'	P14D	18" SSPRC @ 0.73%
26'	P14E	18" SSPRC @ 1.33%
38'	P14F	18" SSPRC @ 0.96%
8'	P14G	18" SSPRC @ 2.40%
29'	P14H	18" SSPRC @ 1.21%
38'	P14I	18" SSPRC @ 0.92%

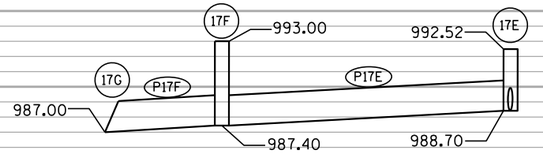
56'	P15A	18" SSPRC @ 0.80%
30'	P15B	18" SSPRC @ 0.81%
16'	P15C	18" SSPRC @ 0.63%
29'	P15D	18" SSPRC @ 0.69%
38'	P15E	18" SSPRC @ 0.53%

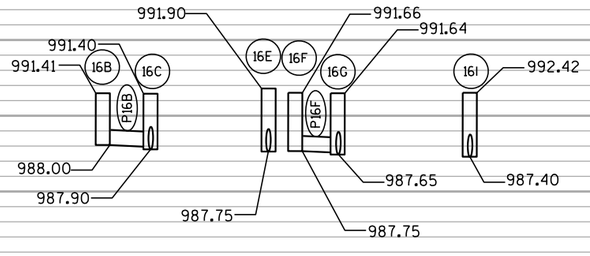
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 168 E

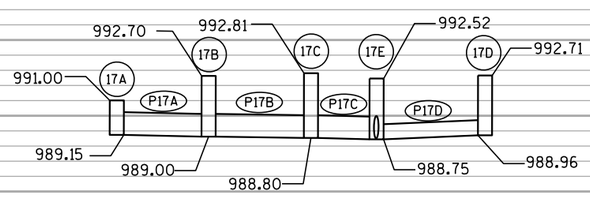


32'	P16A	18" SSPRC @ 0.62%
26'	P16B	12" SSPRC @ 0.50%
28'	P16C	18" SSPRC @ 0.54%
9'	P16E	18" SSPRC @ 1.11%
20'	P16F	12" SSPRC @ 0.50%
42'	P16G	18" SSPRC @ 0.61%
30'	P16I	18" SSPRC @ 0.63%
25'	P17A	18" SSPRC @ 0.59%
30'	P17B	18" SSPRC @ 0.67%
8'	P17C	18" SSPRC @ 0.62%
43'	P17D	12" SSPRC @ 0.50%
370'	P17E	24" SSPRC @ 0.35%
108'	P17F	24" SSPRC @ 0.36%



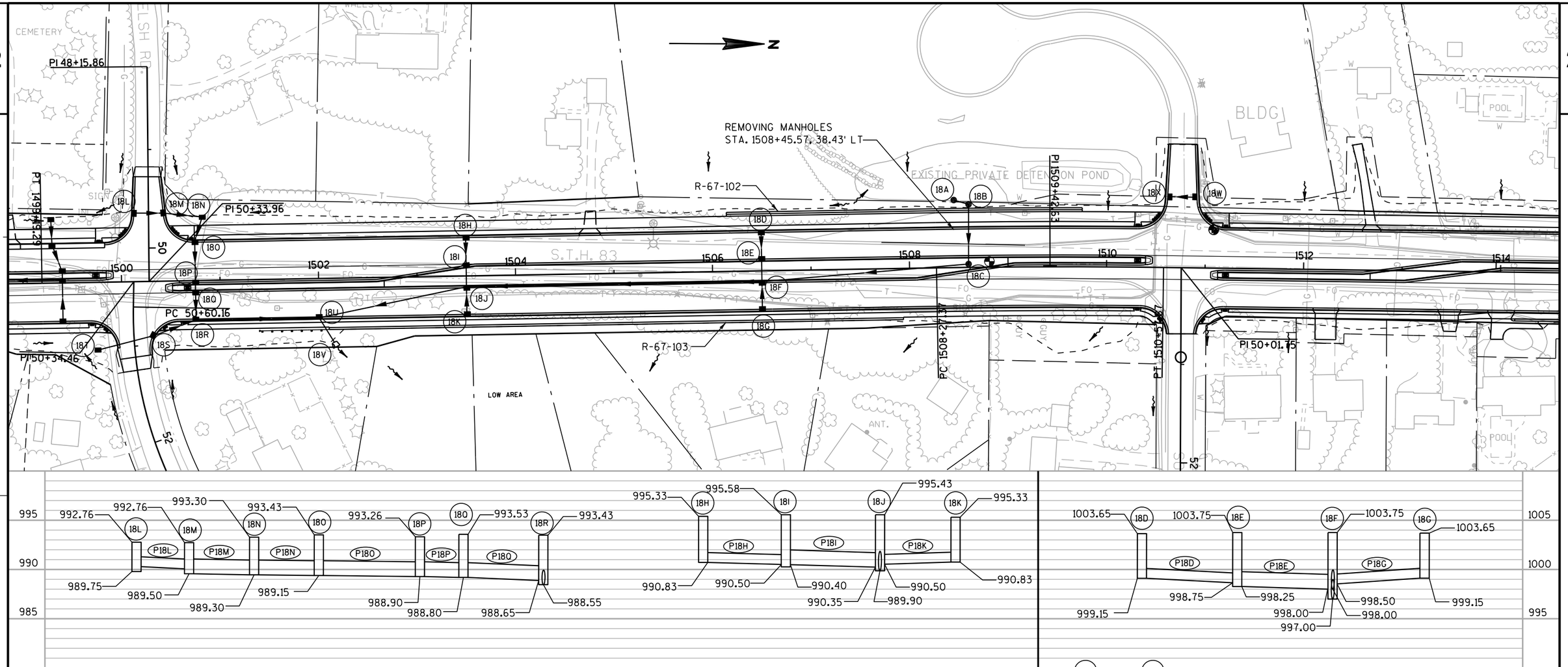






PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 169 E

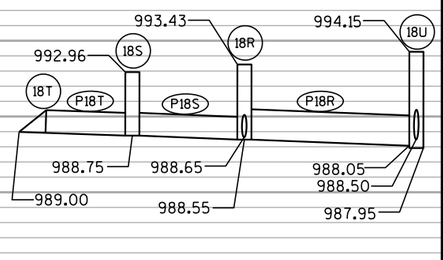
FILE NAME : J:\projects\d2_13301883\022507b_SS.dgn PLOT DATE : 30-JUL-2013 16:44 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

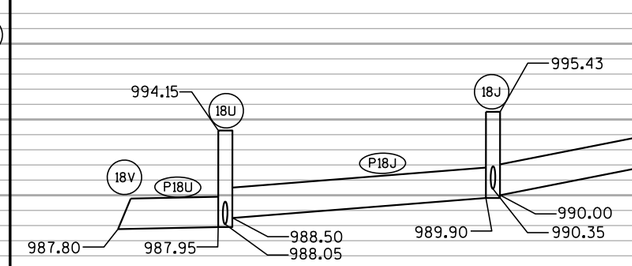


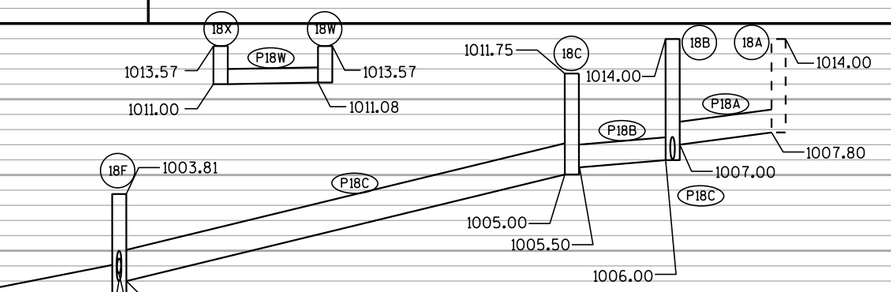
124' (P18R) 24" SSPRC @ 0.40%
44' (P18S) 18" SSPRC @ 0.55%
57' (P18T) 18" SSPRC @ 0.42%

30' (P18L) 12" SSPRC @ 0.78%
39' (P18M) 18" SSPRC @ 0.52%
25' (P18N) 18" SSPRC @ 0.58%
43' (P18O) 18" SSPRC @ 0.58%
8' (P18P) 18" SSPRC @ 1.25%
29' (P18Q) 18" SSPRC @ 0.52%

29' (P18D) 12" SSPRC @ 1.38%
22' (P18E) 18" SSPRC @ 1.14%
29' (P18G) 12" SSPRC @ 1.38%
29' (P18H) 12" SSPRC @ 1.09%
22' (P18I) 18" SSPRC @ 0.48%
29' (P18K) 12" SSPRC @ 1.14%

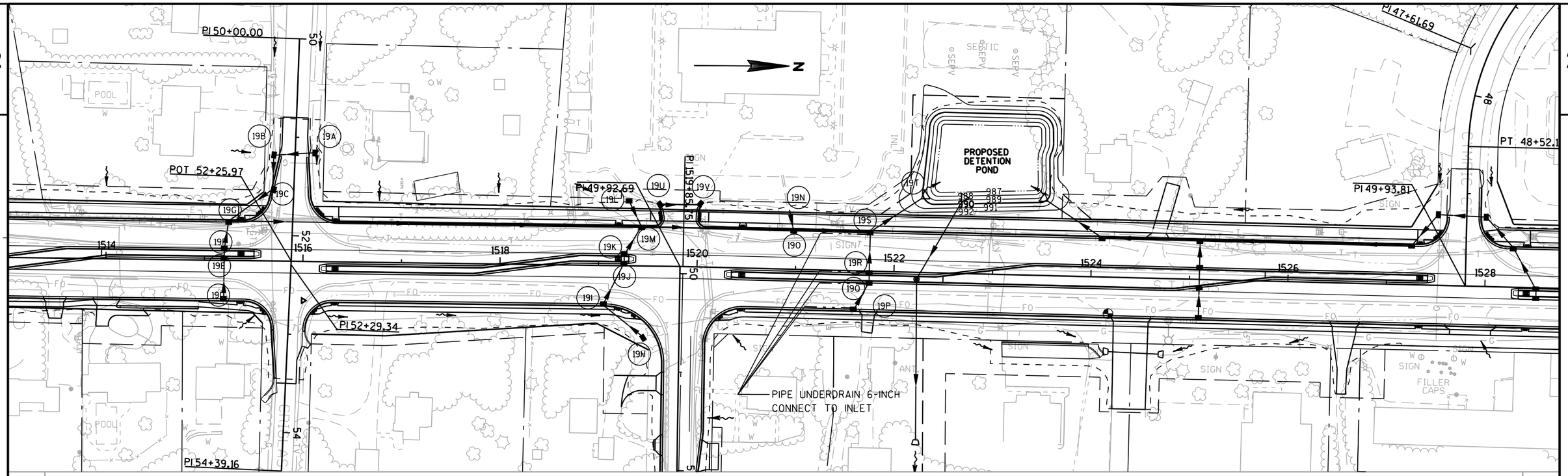




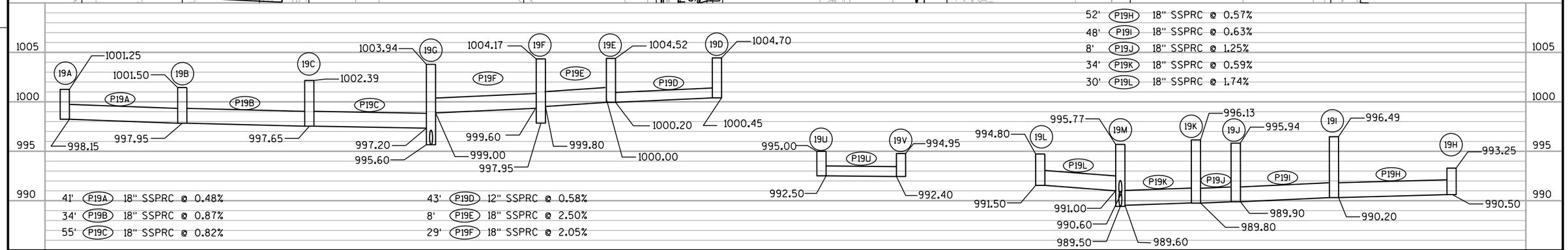


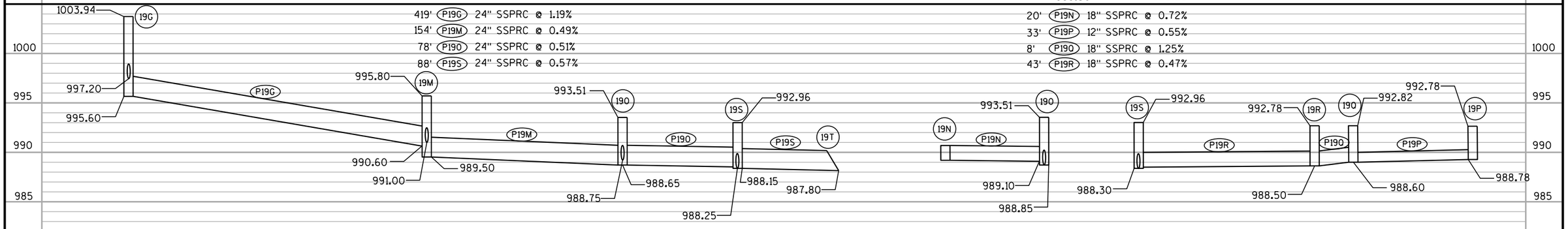
16' (P18A) 18" SSPRC @ 5.09%
60' (P18B) 18" SSPRC @ 0.83%
210' (P18C) 24" SSPRC @ 3.33%
300' (P18F) 24" SSPRC @ 2.33%
152' (P18J) 24" SSPRC @ 0.92%
30' (P18U) 24" SSPRC @ 0.51%
30' (P18W) 12" SSPRC @ 0.30%

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 170 E

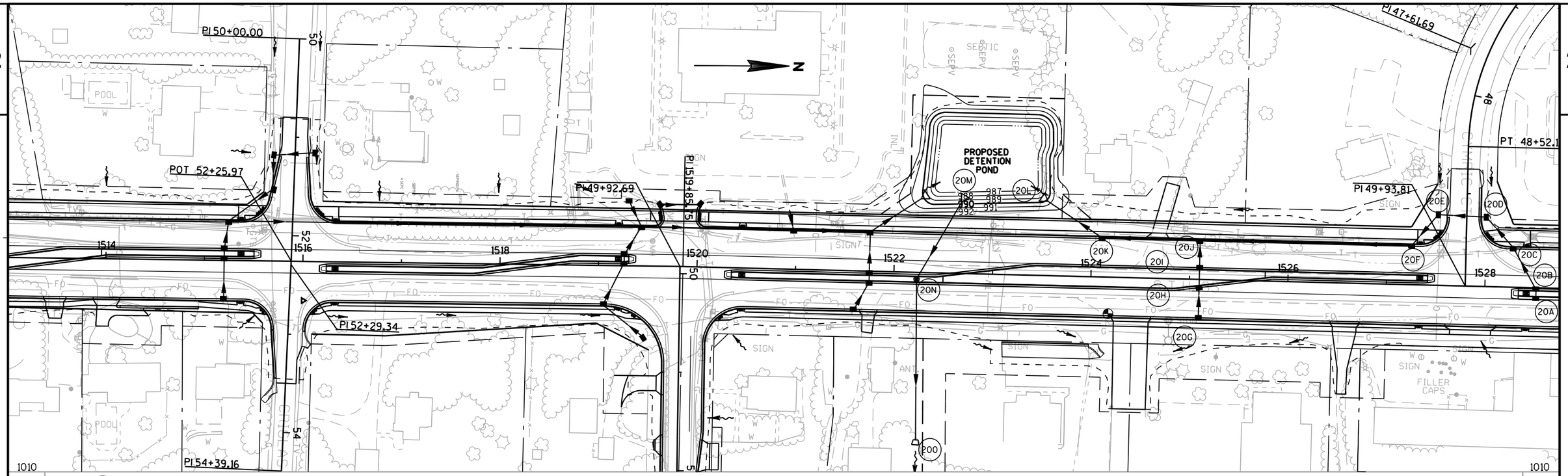


52' P19H 18" SSPRC @ 0.57%
48' P19I 18" SSPRC @ 0.63%
8' P19J 18" SSPRC @ 1.25%
34' P19K 18" SSPRC @ 0.59%
30' P19L 18" SSPRC @ 1.74%

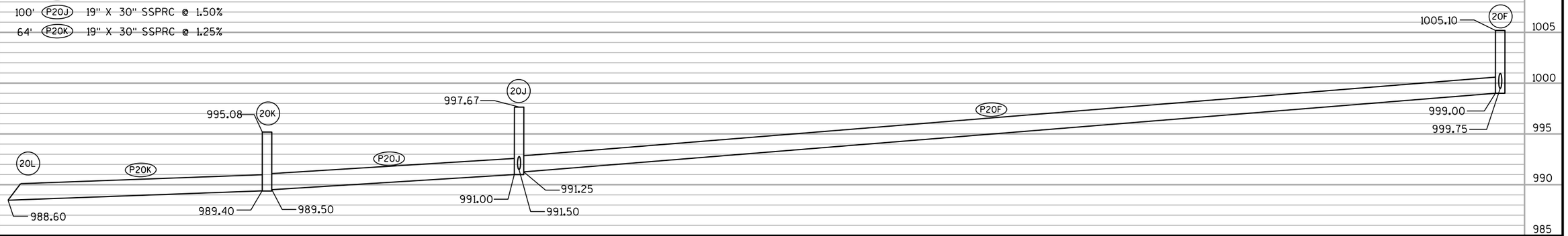




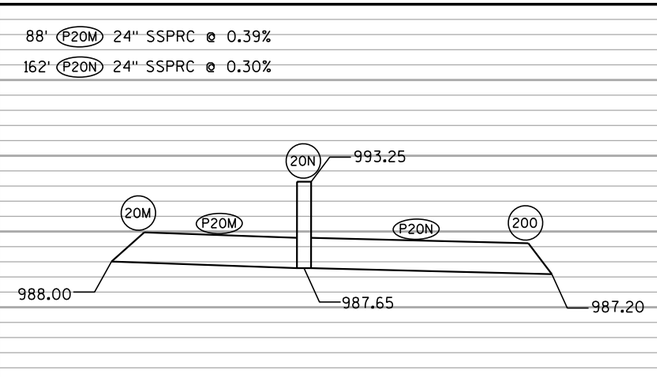
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 171	E



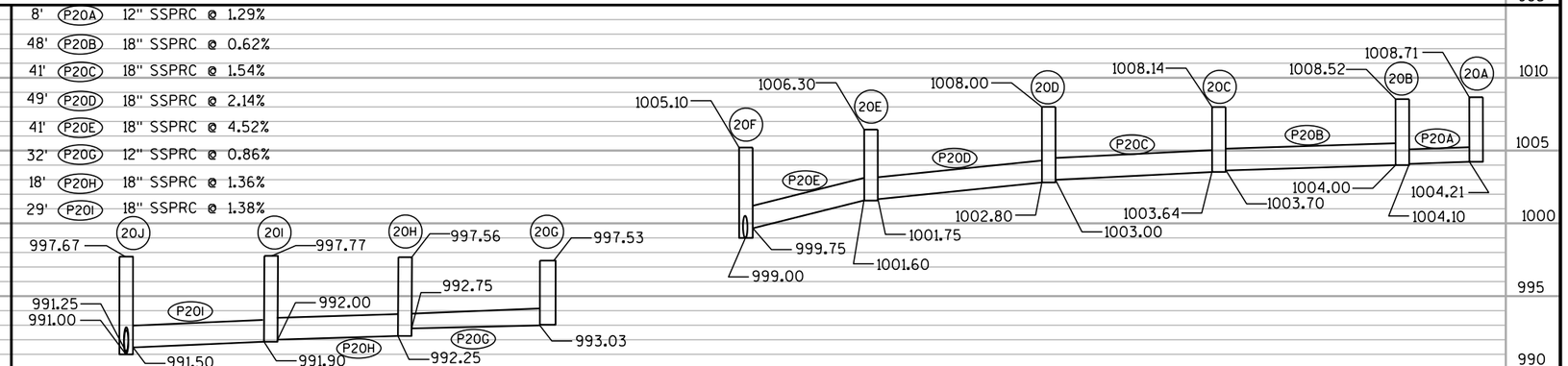
215' (P20F) 19" X 30" SSPRC @ 3.60%
100' (P20J) 19" X 30" SSPRC @ 1.50%
64' (P20K) 19" X 30" SSPRC @ 1.25%



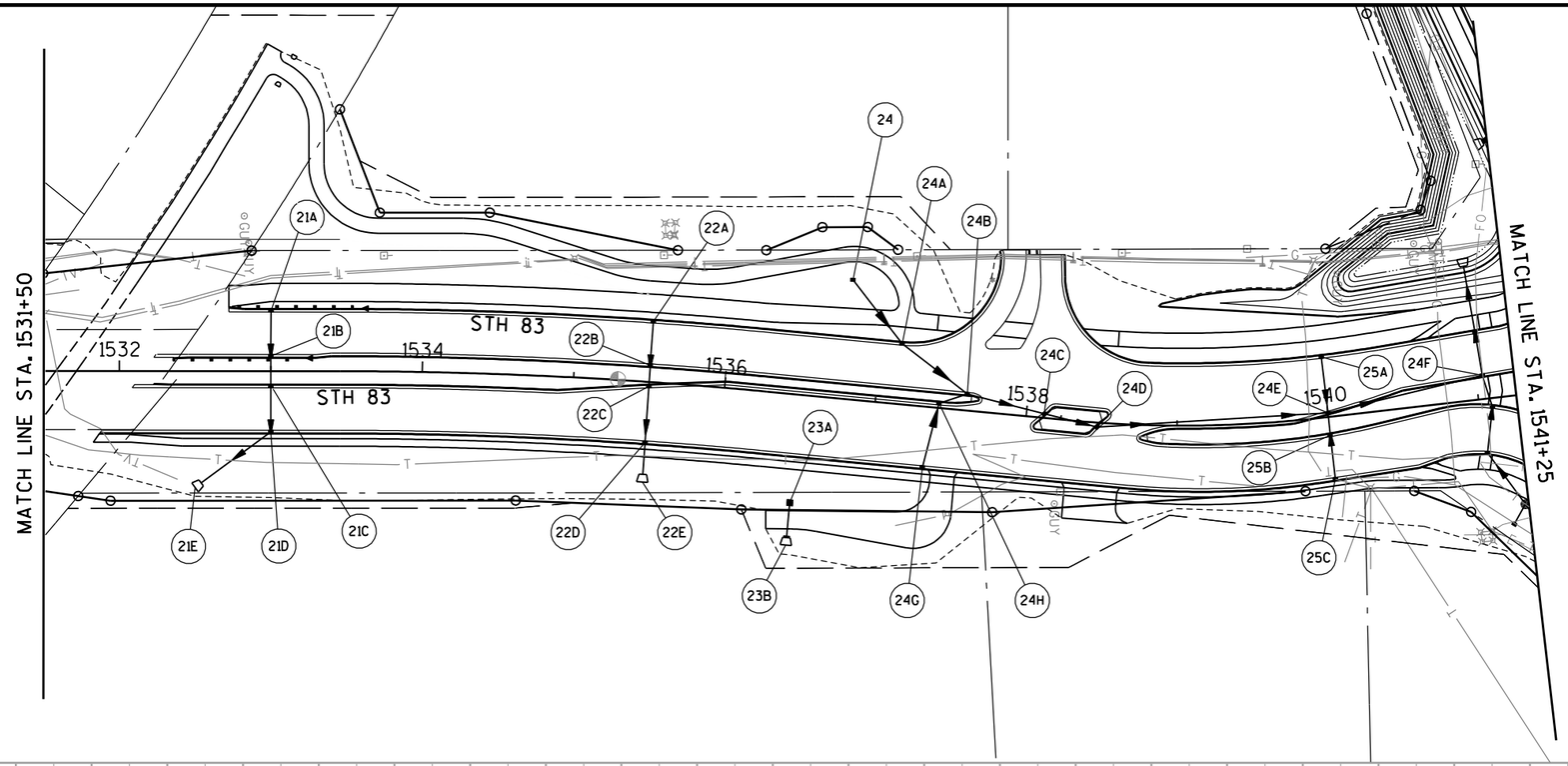
88' (P20M) 24" SSPRC @ 0.39%
162' (P20N) 24" SSPRC @ 0.30%

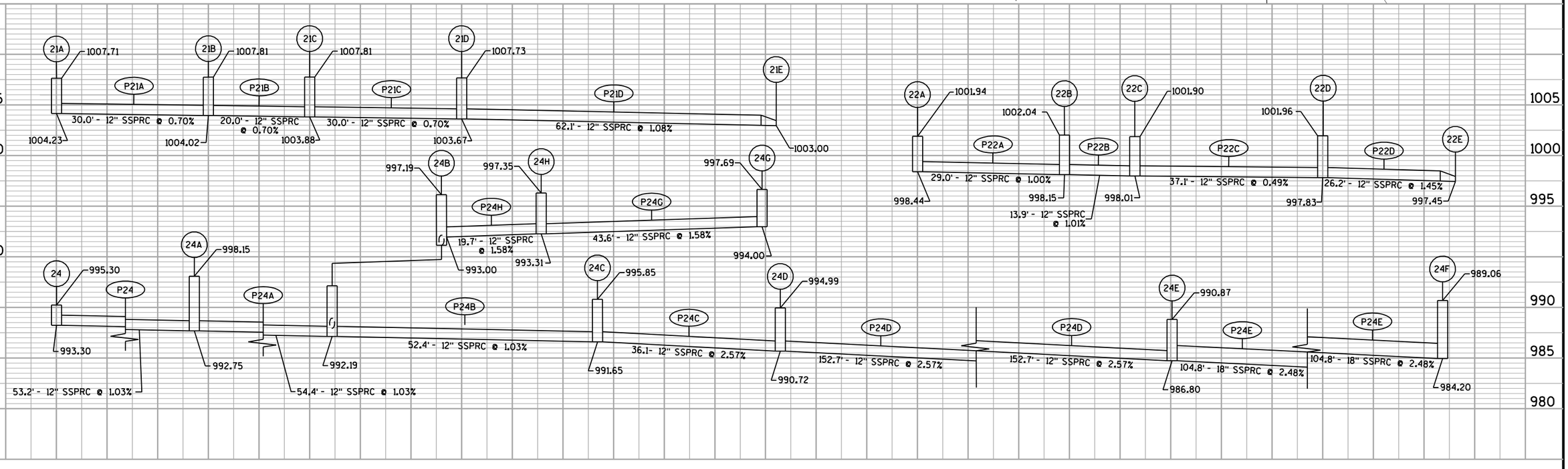


8' (P20A) 12" SSPRC @ 1.29%
48' (P20B) 18" SSPRC @ 0.62%
41' (P20C) 18" SSPRC @ 1.54%
49' (P20D) 18" SSPRC @ 2.14%
41' (P20E) 18" SSPRC @ 4.52%
32' (P20G) 12" SSPRC @ 0.86%
18' (P20H) 18" SSPRC @ 1.36%
29' (P20I) 18" SSPRC @ 1.38%



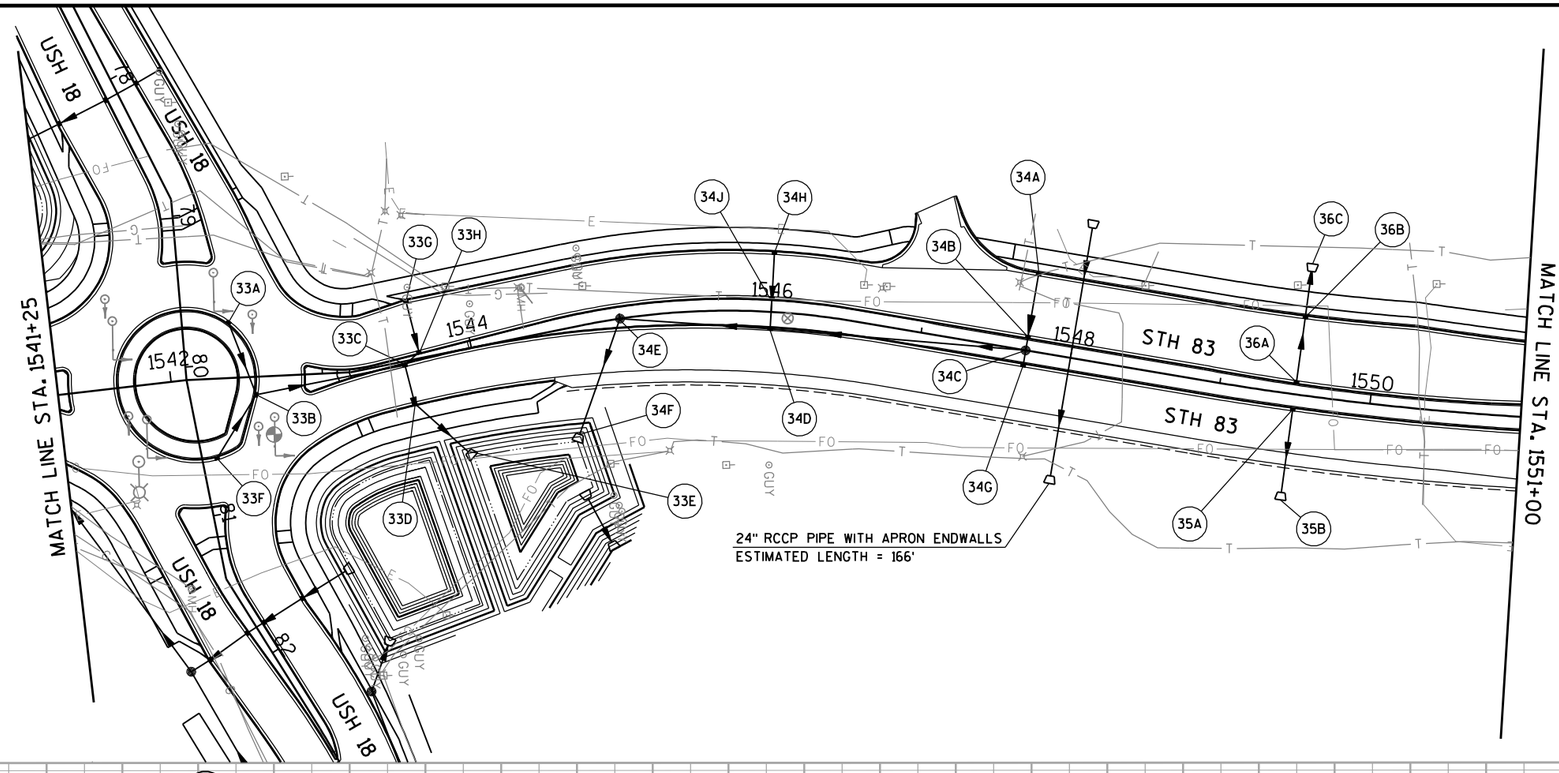
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 172 E

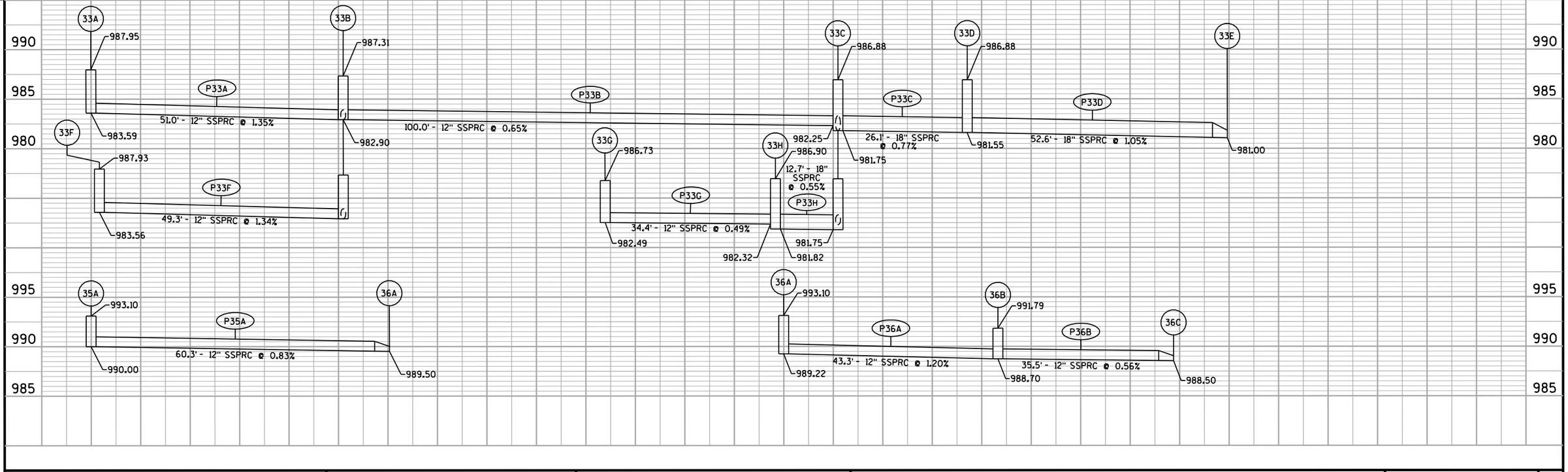




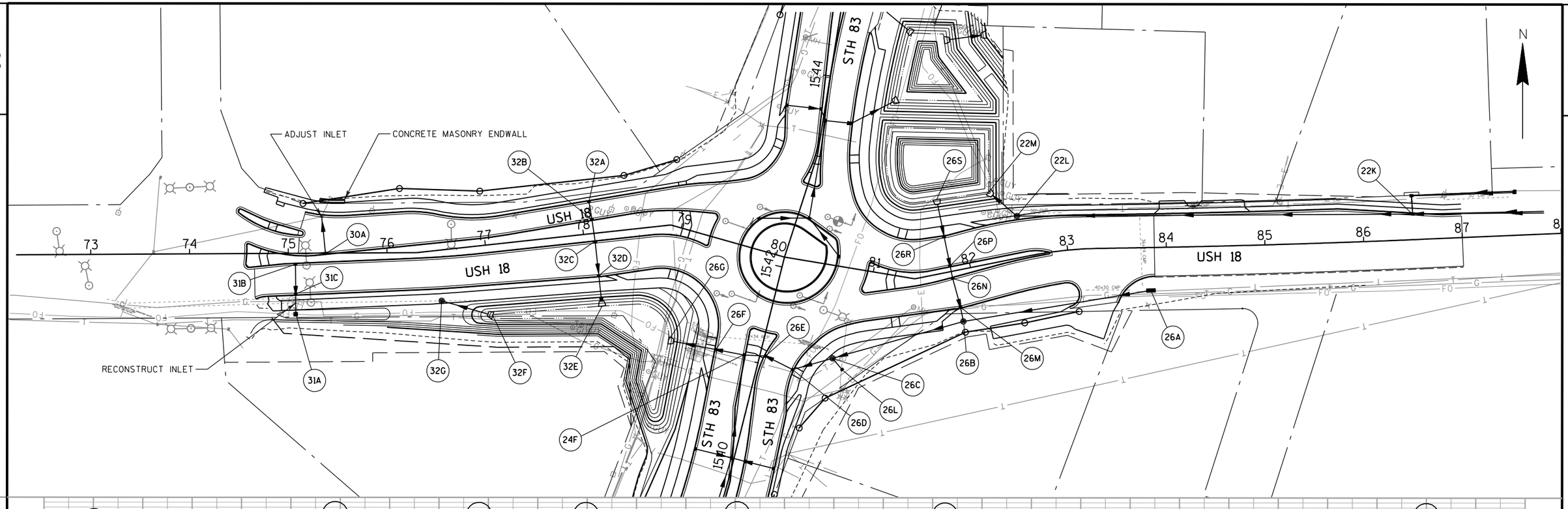
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 173	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_022507_ss.dgn
PLOT DATE : 7/17/2013 3:33:32 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 99.9998 sf / IN.
WISDOT/CADDS SHEET 41a

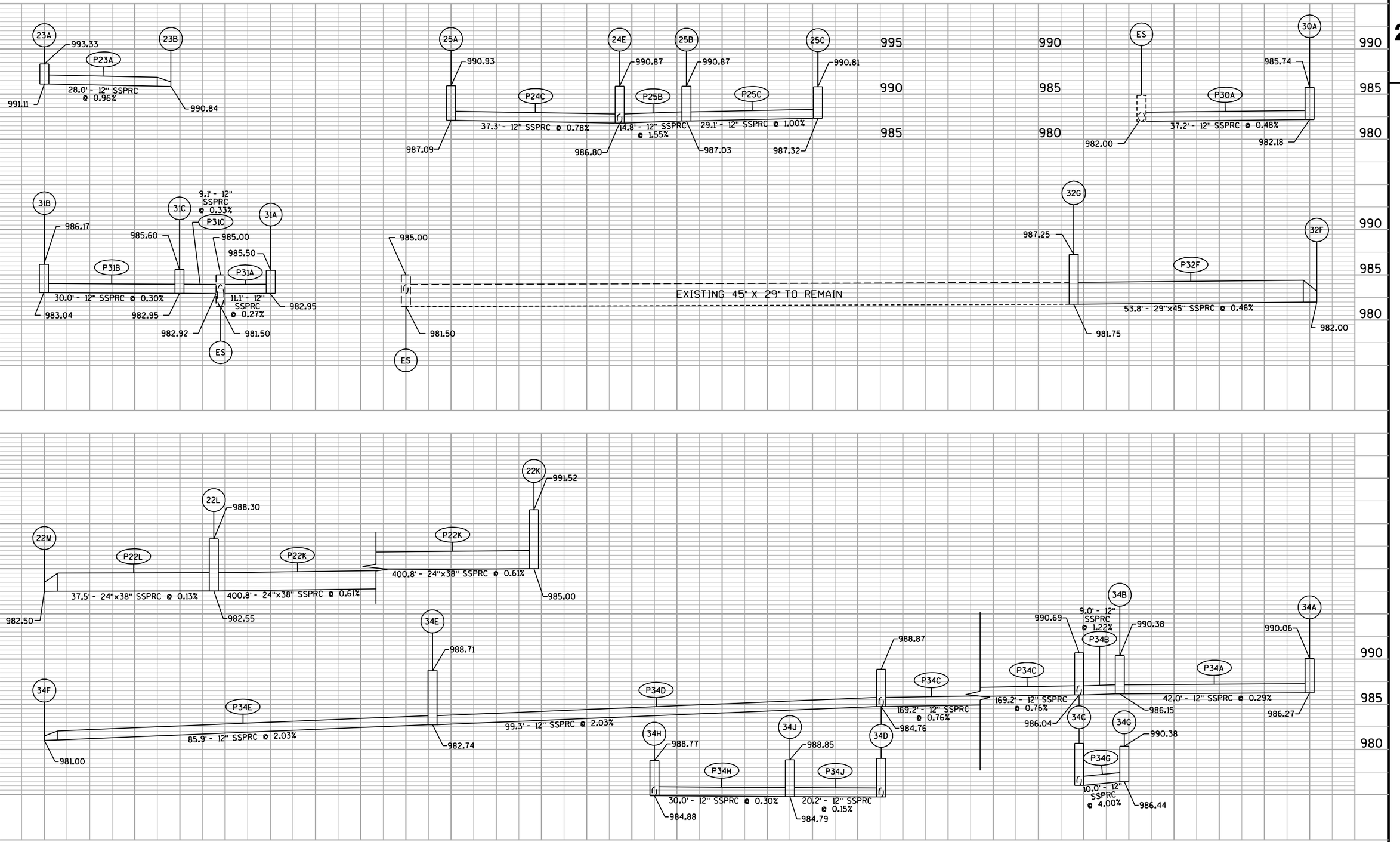




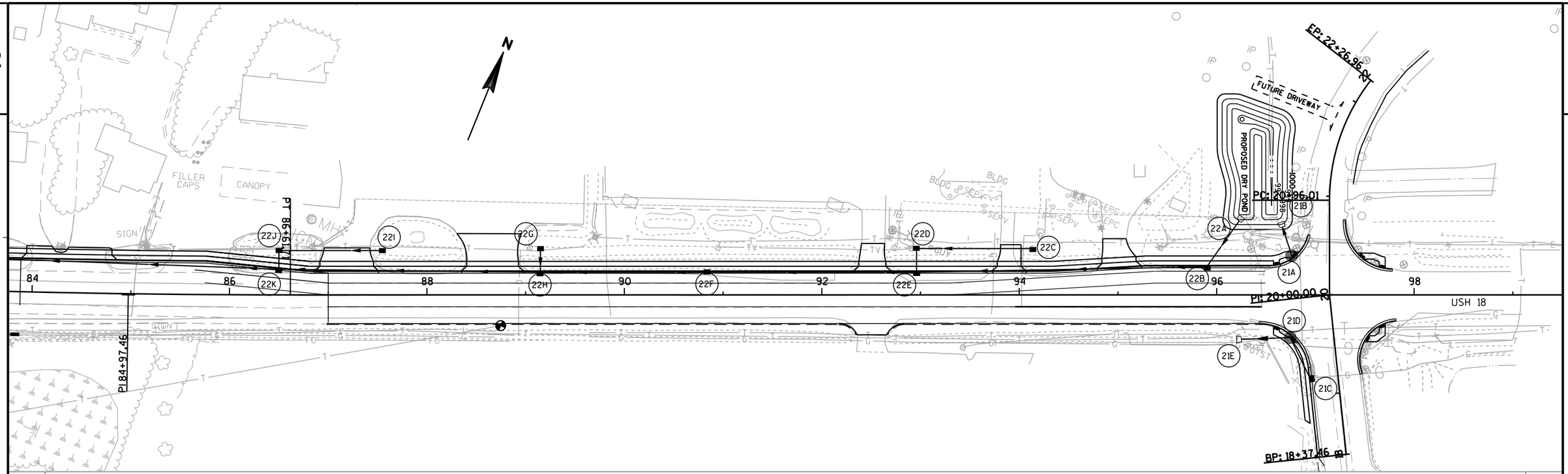
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 174	E

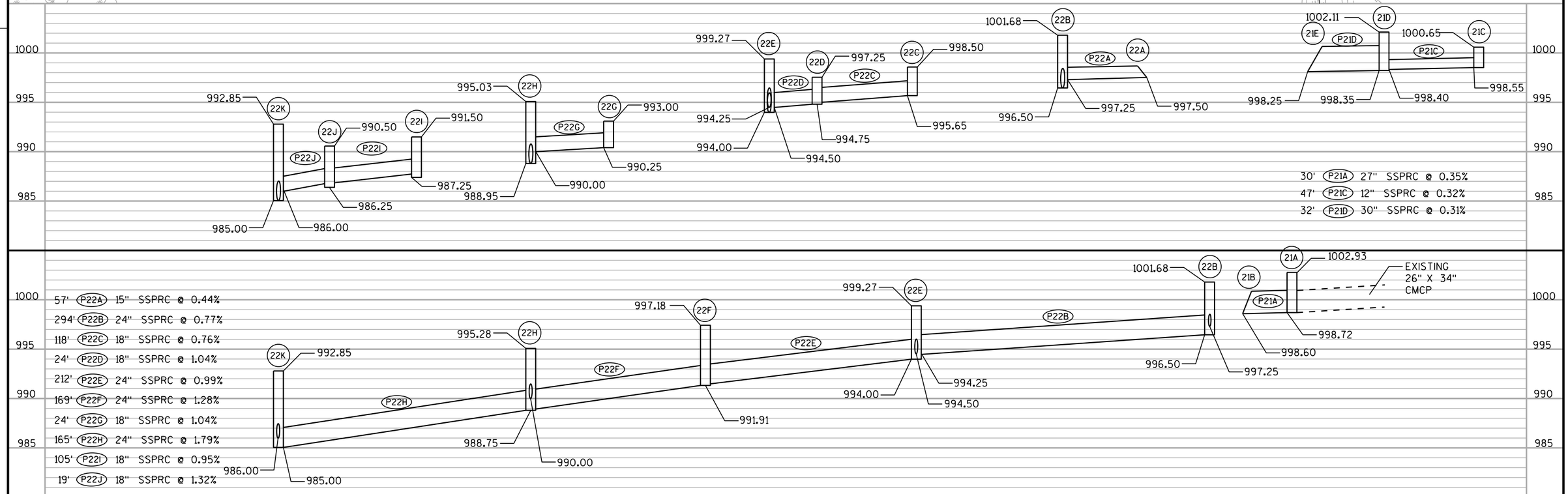


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 175	E

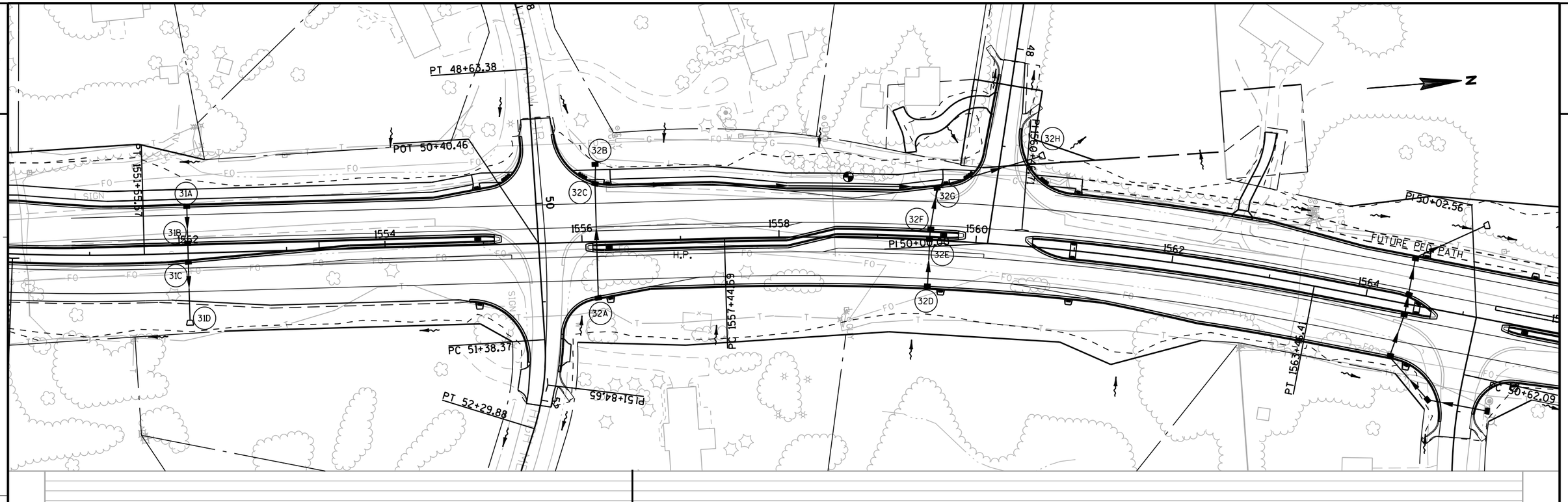


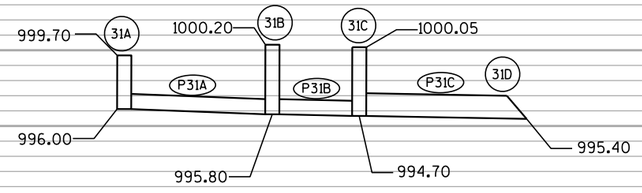
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 176	E



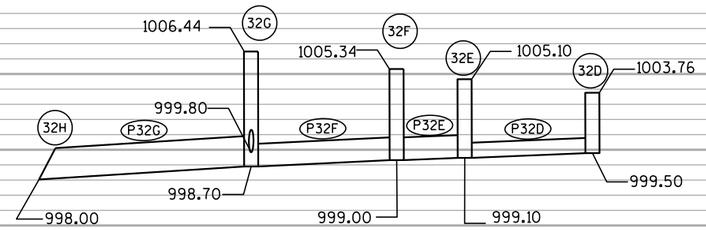


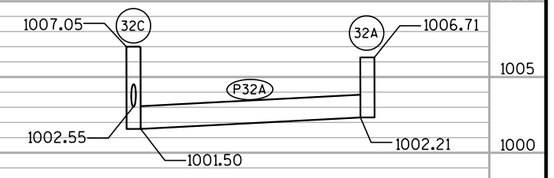
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 177	E

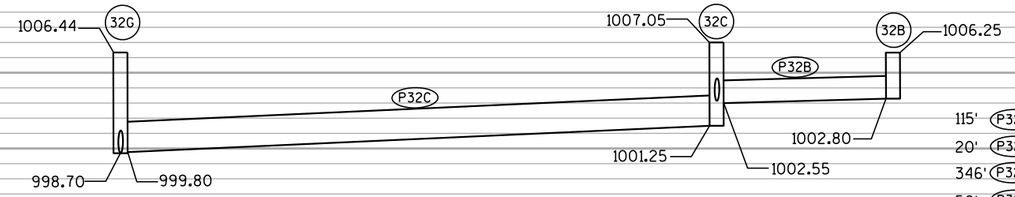




38' (P31A) 12" SSPRC @ 0.53%
19' (P31B) 12" SSPRC @ 0.54%
58' (P31C) 18" SSPRC @ 0.51%

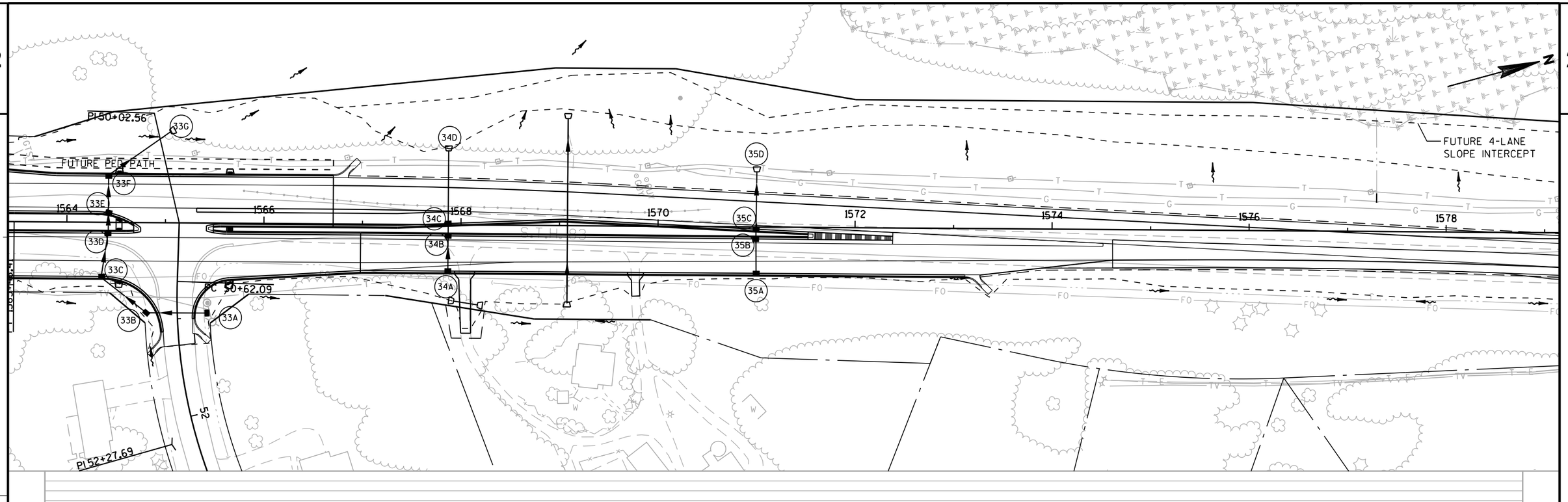






115' (P32A) 18" SSPRC @ 0.62%
20' (P32B) 18" SSPRC @ 1.26%
346' (P32C) 24" SSPRC @ 0.42%
50' (P32D) 12" SSPRC @ 0.80%
8' (P32E) 18" SSPRC @ 1.25%
45' (P32F) 18" SSPRC @ 0.67%
106' (P32G) 24" SSPRC @ 0.65%

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 178	E



61' P33A 18" SSPRC @ 0.57%
58' P33B 18" SSPRC @ 0.60%
46' P33C 18" SSPRC @ 0.54%
19' P33D 18" SSPRC @ 0.53%
39' P33E 18" SSPRC @ 0.89%
76' P33F 24" SSPRC @ 0.52%
38' P34A 12" SSPRC @ 0.90%
10' P34B 18" SSPRC @ 0.94%
75' P34C 18" SSPRC @ 1.73%
37' P35A 12" SSPRC @ 0.81%
8' P35B 18" SSPRC @ 1.26%
59' P35C 18" SSPRC @ 1.69%

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	STORM SEWER	SHEET 179 E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

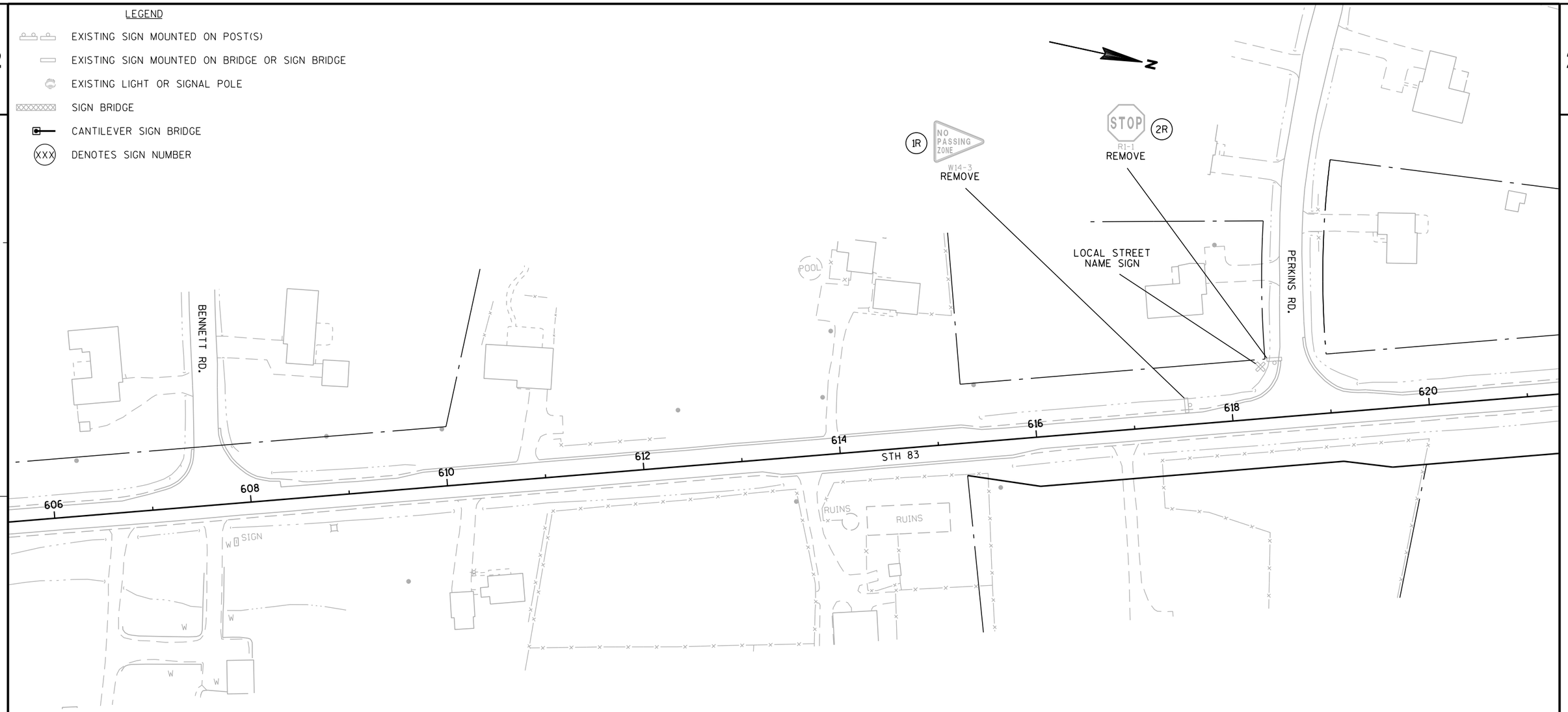
EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER



2

SHEET 1 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 180	E

FILE NAME : J:\projects\d2_13301883\Sign\023101_ps.dgn PLOT DATE : 12-JUL-2013 11:48 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

N

622 624 626 628 630 632 634 636

STH 83

LONDON DR.

3R W1-2R REMOVE

4R W2-2 REMOVE

LOCAL STREET NAME SIGN

5R STOP R1-1 REMOVE

6R W5-52R REMOVE

SHEET 2 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 181 E

FILE NAME : J:\projects\d2_13301883\Sign\023102_ps.dgn PLOT DATE : 12-JUL-2013 11:48 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

N

SPEED LIMIT 45 R2-1 — 9R — REMOVE

WALLS

SOUTH M3-3 / 83 M1-6 — 14R — REMOVE

636 638 640 STH 83 642 644 646 648 650

HARVEST VIEW DR.

W3-3 — 7R — REMOVE

BE PREPARED TO STOP W3-4 — 8R — REMOVE

W1-2L — 10R — REMOVE

JCT M2-1 / COUNTY DE M1-5A — 22IR / COUNTY E M1-5A J1-1 — REMOVE

LOCAL STREET NAME SIGN

STOP R1-1 — 11R — REMOVE

WEST M3-4 / EAST M3-2 / COUNTY E M1-5A / COUNTY DE M1-5A / M5-1L / M5-1R J2-2 — 12R — REMOVE

ONLY ONLY ONLY R3-8W — 13R — REMOVE

SHEET 3 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 182 E

FILE NAME : J:\projects\d2_13301883\Sign\023103_ps.dgn PLOT DATE : 12-JUL-2013 11:48 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

40R EAST M3-2 SOUTH M3-3 COUNTY DE M1-5A 83 M1-6 M6-1 M6-1 J3-2 REMOVE

38R 39R ONLY R3-5L REMOVE ON OVERHEAD SIGN SUPPORT

37R STOP R1-1 REMOVE

SPEED LIMIT 45 R2-1 202R REMOVE

CTH E

JCT M2-1 JCT M2-1 END M4-6 83 M1-6 COUNTY DE M1-5A COUNTY E M1-5A 34R J1-3 REMOVE

35R W2-2 REMOVE

WAUKESHA COUNTY ADOPT A HWY LITTER CONTROL ALL SAINTS CHURCH

MOVE SEE PERMANENT SIGNING PLAN

29R EAST M3-2 WEST M3-4 COUNTY DE M1-5A COUNTY E M1-5A M5-1L M5-1R J2-2 REMOVE

CHURCH CHURCH CHURCH CHURCH MOVE PERMIT SIGN SEE PERMANENT SIGNING PLAN

JCT M2-1 COUNTY DE M1-5A 27R COUNTY E M1-5A J1-2 REMOVE

41R 42R STOP R1-1F REMOVE ON SIGNAL POLE

43R 44R R4-7 REMOVE

NORTH M3-1 83 M1-6 36R M6-1 J3-1 REMOVE ON SIGN BRIDGE UPRIGHT

31R EAST M3-2 WEST M3-4 COUNTY DE M1-5A COUNTY E M1-5A M6-1 M6-1 J3-2 REMOVE

WEST M3-4 COUNTY E M1-5A 33R J4-1 REMOVE

S-67-249 REMOVE OVERHEAD SIGN SUPPORT

30R ONLY ONLY ONLY R3-8W REMOVE

650 652 654 656 STH 83 658 660 662 664

15R WEST M3-4 EAST M3-2 COUNTY E M1-5A COUNTY DE M1-5A M6-1 M6-1 J3-2 REMOVE

16R 17R STOP R1-1F REMOVE ON SIGNAL POLE

32R STOP R1-1F REMOVE ON SIGNAL POLE

WALLS

83 M1-6 COUNTY E M1-5A M6-4 M6-1 23R J3-2 REMOVE

NORTH M3-1 83 M1-6 24R J4-1 REMOVE

SPEED LIMIT 45 R2-1 25R REMOVE

W1-2R 26R 28R REMOVE

18R R4-7 REMOVE

19R COUNTY DE M1-5A J4-1 REMOVE

CTH DE

SIGN

JCT M2-1 JCT M2-1 END M4-6 83 M1-6 COUNTY E M1-5A COUNTY DE M1-5A 22R J2-3 REMOVE

20R SPEED LIMIT 45 R2-1 REMOVE

W3-3 21R REMOVE

SIGN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 4 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 183 E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

W3-3 REMOVE — 47R 48R

59R 60R 61R 62R — W1-8L REMOVE

W1-6 REMOVE — 58R

W1-8L REMOVE — 57R

STOP R1-1 REMOVE — 56R

W1-2L REMOVE — 55R

DAVIES DR.

LOCAL STREET NAME SIGN

PORTHAMEL CT.

STH 83

666 668 670 672 674 676 678

664

POOL

RUINS

FIRESTATION

JCT M2-1 — 49R — COUNTY G M1-5A — J1-1 REMOVE

50R — W11-8 WHEN SIGNAL IS FLASHING R3-7R — 51R

ON SIGNAL POLE
MOVE TYPE 1 POLE
SEE ELECTRICAL PLAN
(PERMIT TO FIRE DEPARTMENT)

W2-2 REMOVE — 52R

SPEED LIMIT 45 R2-1 REMOVE — 53R

54R — COUNTY G M1-5A — M5-1L — J2-1 REMOVE

BE PREPARED TO STOP W3-4 REMOVE — 45R 46R

SHEET 5 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 184	E

FILE NAME : J:\projects\d2_13301883\Sign\023105_ps.dgn PLOT DATE : 12-JUL-2013 11:48 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

81R
W3-1
REMOVE

JCT
M2-1
COUNTY G
M1-5A
83
M1-6
80R
M5-1L
J1-2
REMOVE

LIMITED SIGHT DISTANCE
Driveway Entrance
NEXT XX MILES
ESTR

82R
83
M1-6
M6-4
J3-1
REMOVE

SPEED LIMIT 45
R2-1
76R
REMOVE

CTH G

RIGHT LANE MUST TURN RIGHT
R3-7R
73R
REMOVE

COUNTY G
M1-5A
M5-1R
J2-1
72R
REMOVE

70R
W2-2
REMOVE

JCT
M2-1
COUNTY G
M1-5A
J1-1
69R
REMOVE

POOL

STOP
R1-1
74R

TRAFFIC ON 83 DOES NOT STOP
W4-4C
75R
REMOVE

SALEM CEMETERY

GRAVE STONE

680 682 STH 83 684 686 688 690 692

LOCAL STREET NAME SIGN

SIGN

203R
ROAD TO
Glacial Drumlin State Trail
1/2 MILE
D7-68
REMOVE

JERUSALEM CEMETERY

E. BRANDYBROOK RD.

83R
W11-8
84R
WHEN SIGNAL IS FLASHING
R3-7R
ON SIGNAL POLE
MOVE TYPE 1 POLE
SEE ELECTRICAL PLAN
(PERMIT TO FIRE DEPARTMENT)

63R
COUNTY G
M1-5A
M6-6
J3-1
REMOVE

64R
W1-7
REMOVE

65R
COUNTY G
M1-5A
M6-1
REMOVE

66R
W1-7
REMOVE

STOP
R1-1
67R
REMOVE

SPEED LIMIT 45
R2-1
68R
71R
REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 6 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 185 E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

SPEED LIMIT 45 — R2-1 — 86R — REMOVE

STOP — R1-1 — 87R — REMOVE

NO PASSING ZONE — W14-3 — 90R — REMOVE

LOCAL STREET NAME SIGN

S. WELSH RD.

SALEM CEMETERY

SIGN

694 696 STH 83 698 700 702 704 706 708

NO PASSING ZONE — W14-3 — 85R — REMOVE

STOP — R1-1 — 88R — REMOVE

E. WELSH RD.

SPEED LIMIT 35 — R2-1 — 89R — REMOVE

ANT.

SHEET 7 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 186	E

FILE NAME : J:\projects\d2_13301883\Sign\023107_ps.dgn PLOT DATE : 12-JUL-2013 11:48 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

STOP R1-1 (93R) REMOVE

STREET NAME SIGN MOVED BY OTHERS

SPEED LIMIT 35 R2-1 (96R) REMOVE

Glacial Drumlin State Trail D7-95L (98R) REMOVE

BENTON CT.

CRIGLAS RD.

ATE DETENTION POND

BLDG

POOL

SIGN

LOCAL STREET NAME SIGN

STH 83

708 710 712 714 716 718 720 722

SOUTH ST.

SPEED LIMIT 35 R2-1 (91R) REMOVE

STOP R1-1 (92R) REMOVE

LOCAL STREET NAME SIGN

POOL

STOP R1-1 (94R) REMOVE

Glacial Drumlin State Trail D7-95R (95R) REMOVE

MAIN ST.

LOCAL STREET NAME SIGN

SIGN

ANT.

STOP R1-1 (97R) REMOVE

SHEET 8 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 187 E

FILE NAME : J:\projects\d2_13301883\Sign\023108_ps.dgn PLOT DATE : 12-JUL-2013 11:48 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

NO PASSING ZONE
W14-3
REMOVE
116R

STOP
R1-1
REMOVE
114R

W5-52R
REMOVE
113R

SOUTH
M3-3
83
M1-6
COUNTY G
M1-5A
J1-2
REMOVE
112R

155-56
MOVE
SEE PERMANENT SIGNING PLAN

111R
Genesee Depot 4
Mukwonago 11
D2-2
REMOVE

STOP
R1-1
REMOVE
109R

SPEED LIMIT 35
R2-1
REMOVE
108R

Wales
POPULATION 2,523
I2-3
REMOVE
107R

CANOPY

CYMRIC CT.

LOCAL STREET NAME SIGN

SIGN

GUY

724 726 728 730 732 734 736 738

STH 83

FILLER CAPS

SPEED LIMIT 35
R2-1
REMOVE
99R
115R

JCT
M2-1
18
M1-4
J1-1
REMOVE
100R

W5-52R
REMOVE
101R

WEST NORTH EAST
M3-4 M3-1 M3-2
18 83 18
M1-4 M1-6 M1-4
M5-1L M6-1 M5-1R
J2-3
REMOVE
102R

W3-3
REMOVE
103R

Hartland
Dousman
Waukesha
D1-3
REMOVE
104R

COUNTY G
M1-5A
M6-1
J3-1
REMOVE
105R

WEST EAST
M3-4 M3-2
18 18
M1-4 M1-4
M6-1 M6-1
J3-2
REMOVE
106R

R4-7
REMOVE
110R

BLDG

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 9 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 188	E

2

N

Wales
Waukesha
Dousman
D1-3
REMOVE
163R

ONLY ONLY ONLY
R3-8W
REMOVE
160R

DO NOT ENTER
R5-1
REMOVE
162R

FINES DOUBLE IN WORK ZONES
W21-61
REMOVE
161R

STOP
R1-1
REMOVE
158R

STREET NAME SIGN MOVED BY OTHERS

RIGHT TURN ONLY
R3-5R
REMOVE
159R

ONE WAY
R6-2R
REMOVE
157R

WRONG WAY
R5-1A
REMOVE
155R

ALTERNATE MB4-1 / EAST MB3-2 / 94 INTERSTATE M1-1 — ALTERNATE MB4-1 / WEST MB3-4 / 94 INTERSTATE M1-1
MB5-1L MB5-1R
J2-2
REMOVE
152R

EAST M3-2 / SOUTH M3-3 / WEST M3-4
18 M1-4 / 83 M1-6 / 18 M1-4
M5-1L M6-1 M5-1R
J2-3
REMOVE
151R

Ten Chimneys
Nat'l Historic
Landmark
D7-68L
MOVE
SEE PERMANENT
SIGNING PLAN

W3-3
REMOVE
153R

CANOPY
FILLER CAPS
SIGN
USH 18
BLDG
GUY
MH
SEE SHEET 10A FOR ADDITIONAL SIGNS AT THIS INTERSECTION
738 740 742 744 STH 83 746 748 750 752
I SIGN

NO PARKING ANY TIME
R7-1D
REMOVE
133R

SPEED LIMIT 45
R2-1
REMOVE
140R

R4-7
REMOVE
138R

R3-4
REMOVE
139R

ALTERNATE MB4-1 / WEST MB3-4 / 94 INTERSTATE M1-1
MB6-1
J3-1
REMOVE
131R

SOUTH M3-3 / NORTH M3-1
83 M1-6 / 83 M1-6
M6-1 M6-1
J3-2
REMOVE
132R

EAST M3-2
18 M1-4
J4-1
REMOVE
121R

Waukesha 8
Milwaukee 24
D2-2
REMOVE
122R

NO PARKING ANY TIME
R7-1D
REMOVE
123R

ONLY
R3-5R
ESTR

COUNTY G
M1-5A
M6-1
J3-1
REMOVE
130R

NORTH M3-1
83 M1-6
J4-1
REMOVE
135R

Delafield 3
Hartland 7
Hartford 23
D2-2
REMOVE
136R

WRONG WAY
R5-1A
REMOVE
137R

DO NOT ENTER
R5-1
REMOVE
141R

R4-7
REMOVE
154R

R3-4
REMOVE
156R

W11-3
NEXT XX MILES
W57-51
REMOVE
142R
143R

STOP
SCHOOL BUS FLASHING RED LIGHTS
R59-51
REMOVE
144R

W2-50
CLOSELY SPACED INTERSECTIONS
W2-50P
REMOVE
145R 147R
146R 148R

ALTERNATE MB4-1
94 INTERSTATE M1-1
MB6-1
J3-1
REMOVE
149R

NO PARKING ANY TIME
R7-1D
REMOVE
128R

S-67-92

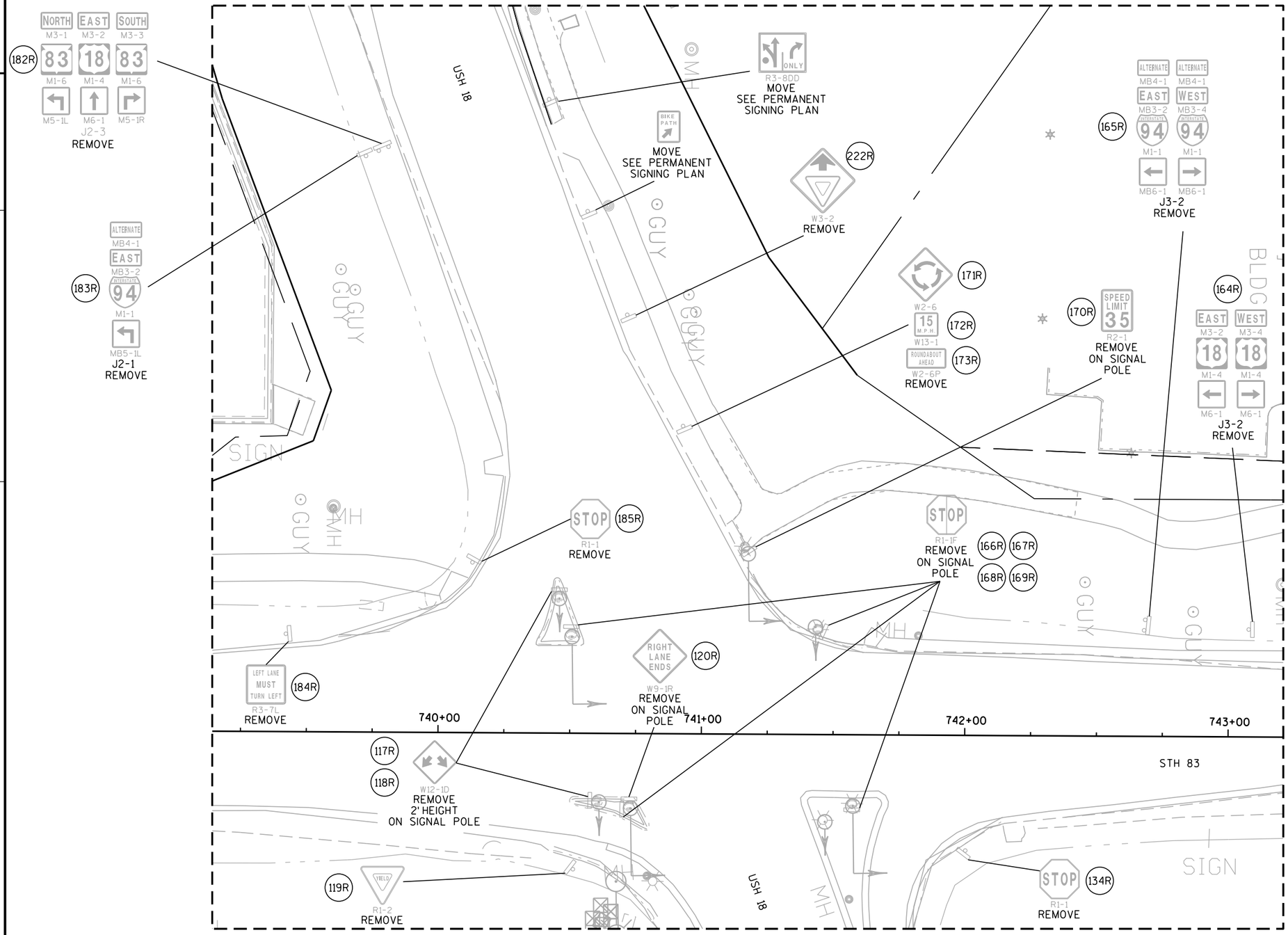
USH 18

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 10 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 189 E



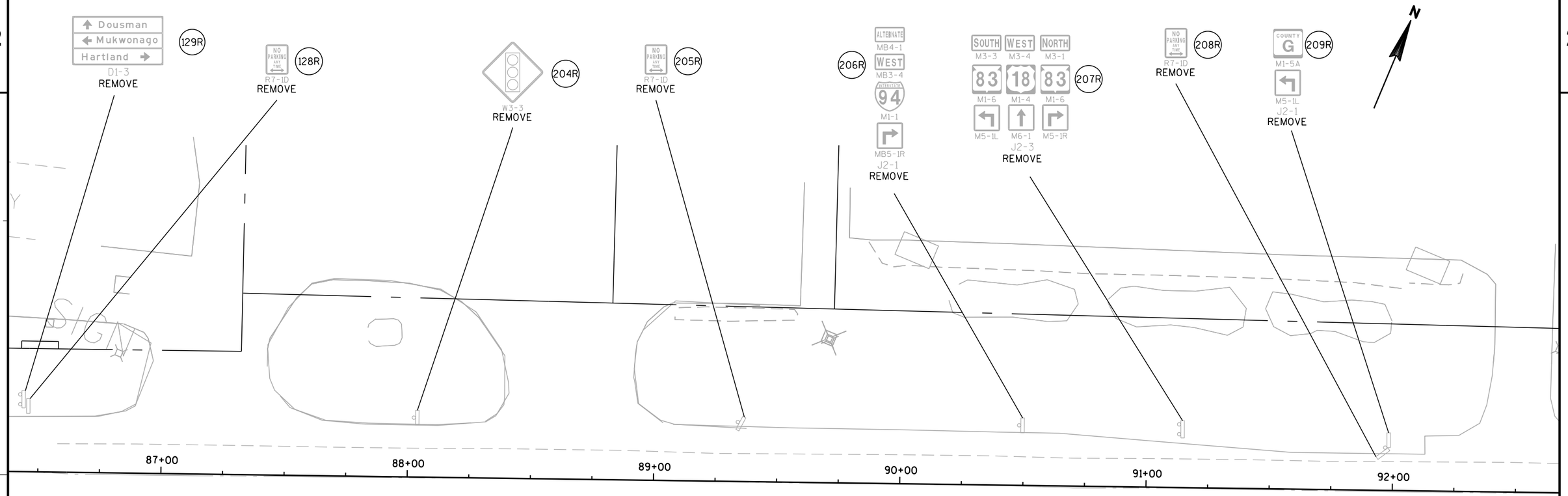
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 10a OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 190 E

2



SHEET 10b OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 191	E

2

SPEED LIMIT 35
R2-1
MOVE
SEE PERMANENT SIGNING PLANS

NO PARKING ANY TIME
R7-1L
213R
REMOVE

JCT
M2-1
83
M1-6
J1-1
214R
REMOVE

STOP
R1-1F
215R
218R
REMOVE ON SIGNAL POLE

PC: 20+96.01

LOCAL STREET NAME SIGN

93+00 94+00 95+00 96+00 97+00 98+00

PI: 20+00.00

USH 18

E. OAK CREST DR

BP: 18+37.46

STOP
R1-1
REMOVE
ESTR

NO PARKING ANY TIME
R7-1D
220R
REMOVE

LEFT LANE MUST TURN LEFT
R3-7L
219R
REMOVE

EAST
M3-2
18
M1-4
J4-1
ESTR

STOP
R1-1F
216R
217R
REMOVE ON SIGNAL POLE

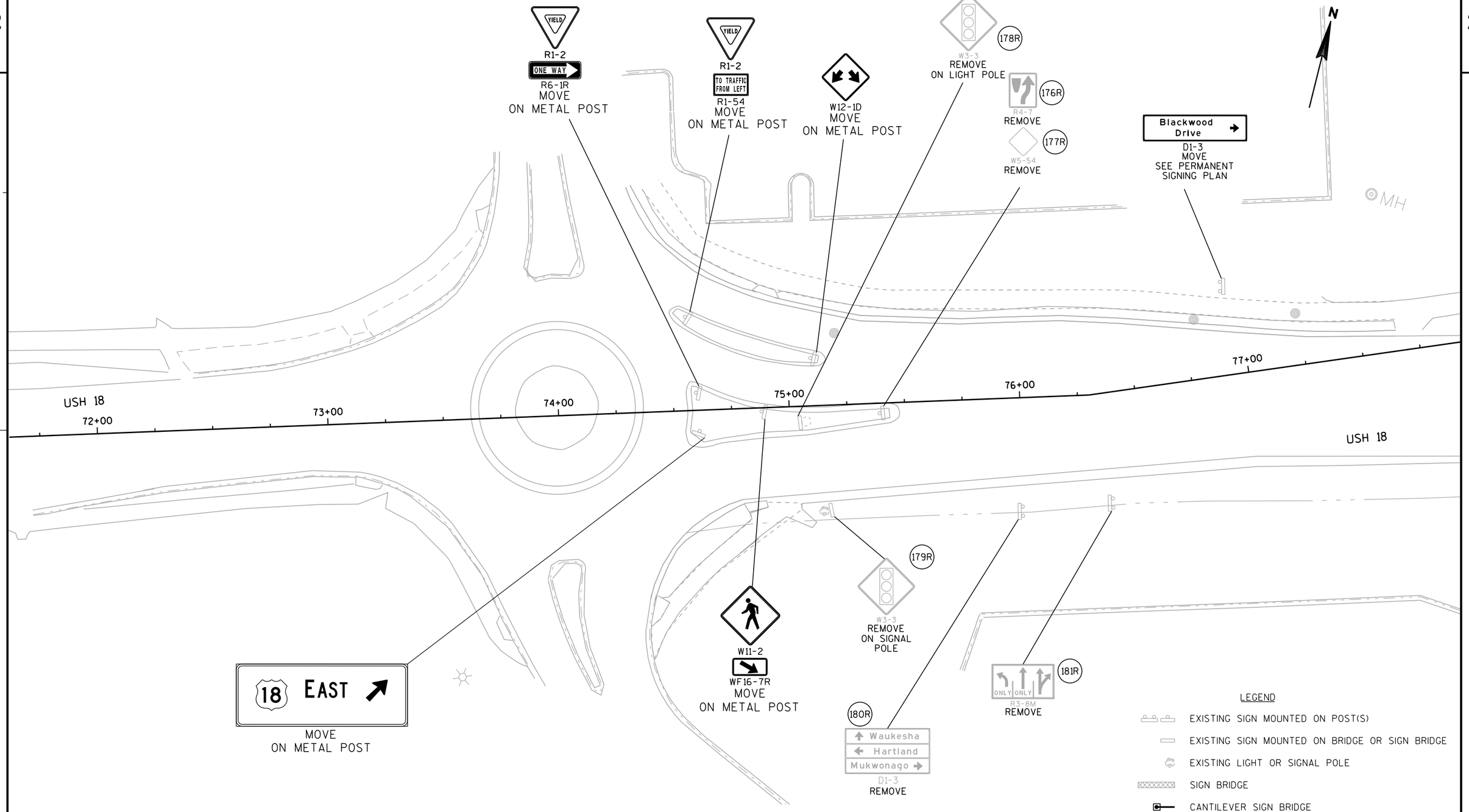
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER

SHEET 10c OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 192	E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 10d OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 193	E

FILE NAME : J:\projects\d2_13301883\Sign\023110d_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

2

191R STOP R1-1 REMOVE

194R STOP R1-1 REMOVE

NO ENGINE BRAKING EXCEPT IN EMERGENCY R10-64 MOVE SEE PERMANENT SIGNING PLAN

SPEED LIMIT 45 R2-1 REMOVE

187R

192R

BOYS SCHOOL RD

HIGH MEADOW CR.

LOCAL STREET NAME SIGN

LOCAL STREET NAME SIGN

754 756 758 760 762 764 766 768

STH 83

LOCAL STREET NAME SIGN

STREET NAME SIGN

GLACIER PASS

189R STOP R1-1 REMOVE

186R STOP R1-1 REMOVE

JCT M2-1

18 M1-4 J1-1 196R REMOVE

HIGH MEADOW LA.

NO TRESPASSING STATE OF WIS-OWNER VIOLATORS WILL BE PROSECUTED SEC 943.13 WIS STATUTES R5-98 195R REMOVE

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER

SHEET 11 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 194 E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

N

2

GUY

GUY

GUY

GUY

768

770

772

774

STH 83

776

778

780

782

STH 83

LOCAL STREET NAME SIGN

SIGN

W

W

SPEED LIMIT 45 R2-1 197R

REMOVE

GLACIER PASS

STOP R1-1 198R

REMOVE

SHEET 12 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 195	E

FILE NAME : J:\projects\d2_13301883\Sign\023112_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 100:1

2

N

SPEED LIMIT 45
R2-1
REMOVE

199R

200R

201R

NO PASSING ZONE
W14-3
REMOVE

784

786

788

790

STH 83

W

W

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER

SHEET 13 OF 13

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGN REMOVAL PLAN	SHEET 196	E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

BENNETT RD.

STH 83

607 608 609 610 611 612

W SIGN

SHEET 1 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 197	E

FILE NAME : J:\projects\d2_13301883\Sign\023201_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

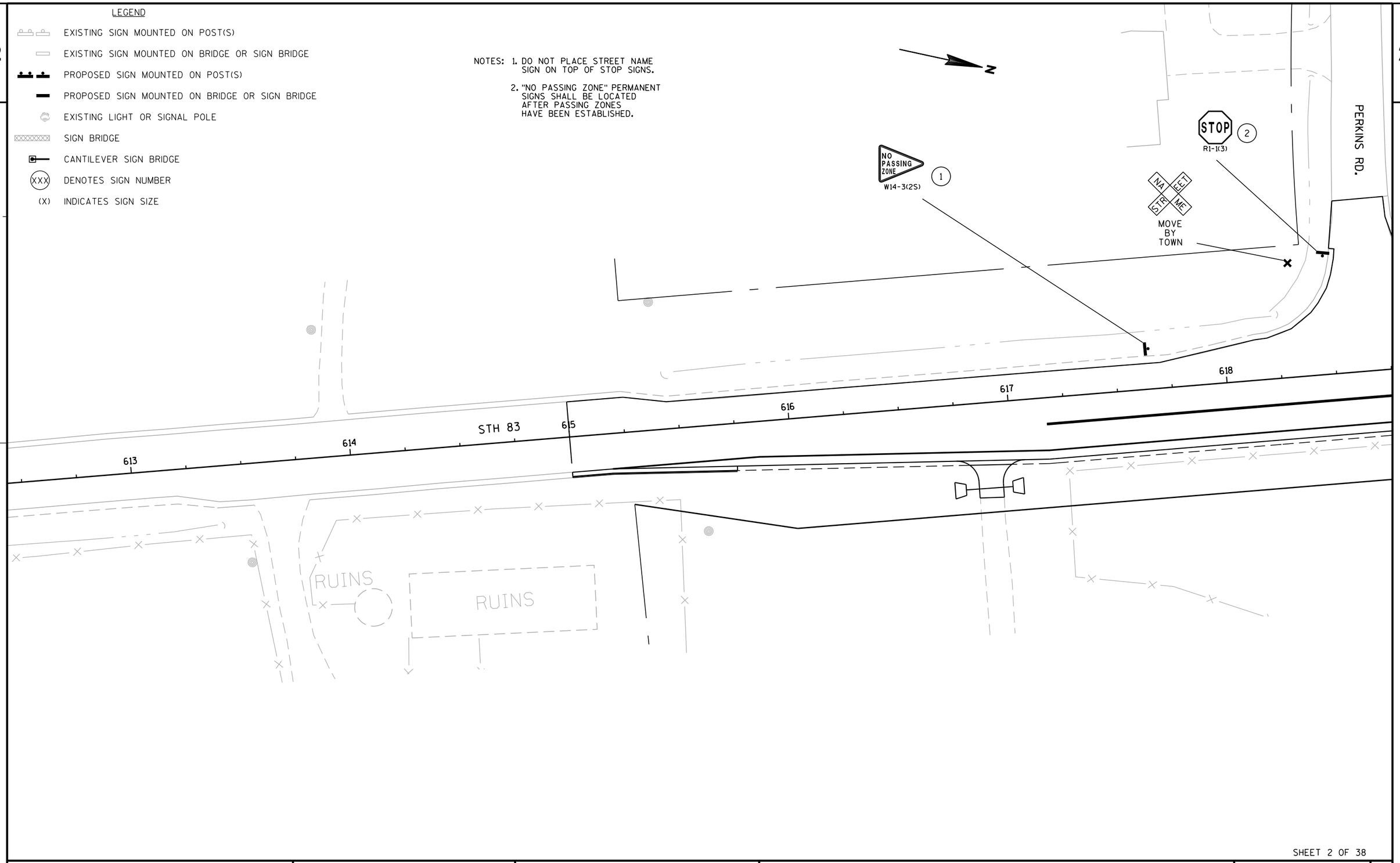
WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

NOTES:
1. DO NOT PLACE STREET NAME SIGN ON TOP OF STOP SIGNS.
2. "NO PASSING ZONE" PERMANENT SIGNS SHALL BE LOCATED AFTER PASSING ZONES HAVE BEEN ESTABLISHED.



SHEET 2 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 198	E

FILE NAME : J:\projects\d2_13301883\Sign\023202_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

PERKINS RD.

STH 83

618 619 620 621 622 623 624

3

W1-7(2S)

2

SHEET 3 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 199	E

FILE NAME : J:\projects\d2_13301883\Sign\023203_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

624 625 626 627 628 629 630

STH 83

W1-2R(3) 4

W2-2R(3) 5

2

SHEET 4 OF 38

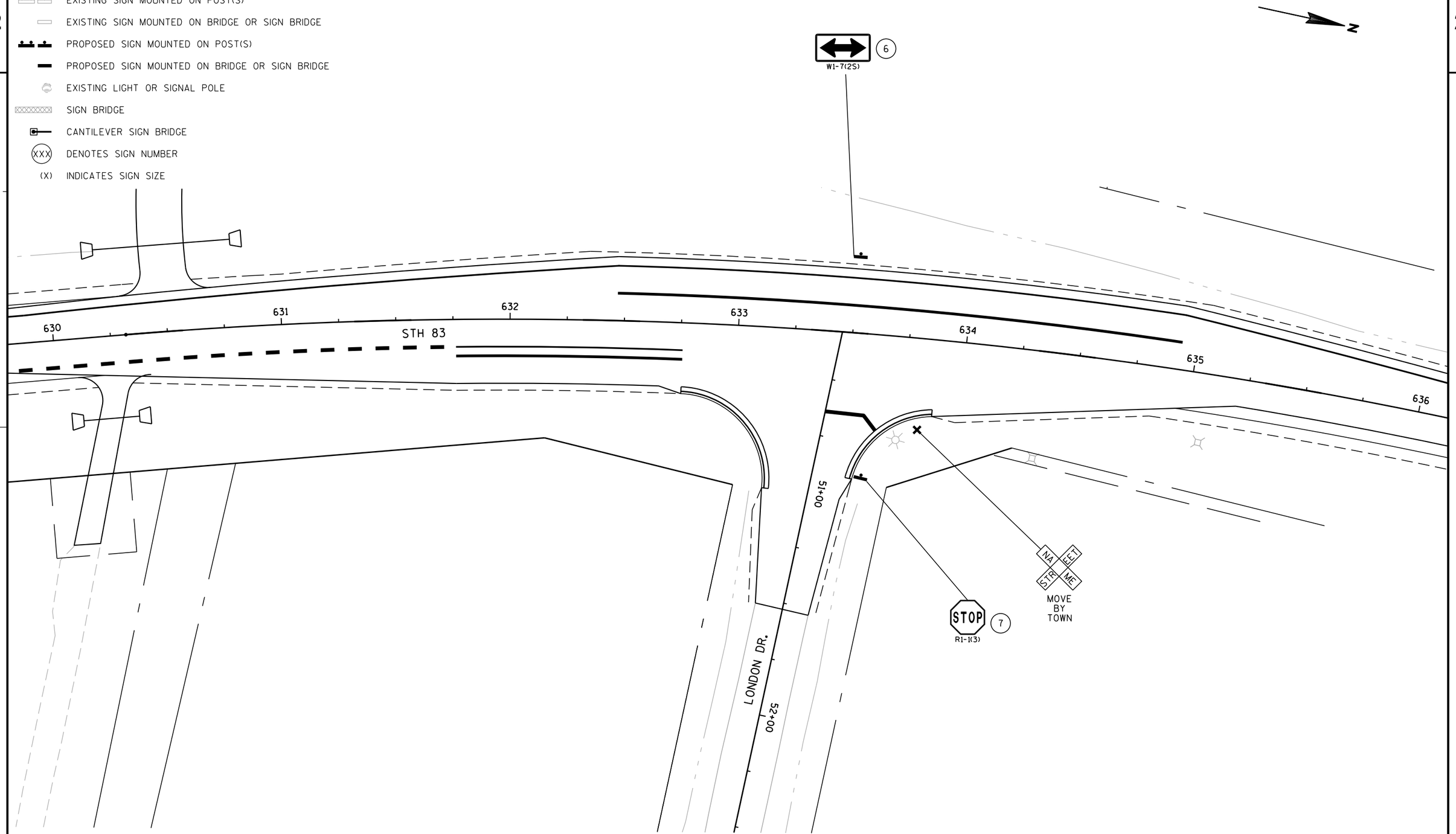
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 200	E

FILE NAME : J:\projects\d2_13301883\Sign\023204_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



SHEET 5 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 201 E

FILE NAME : J:\projects\d2_13301883\Sign\023205_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

2

SPEED LIMIT 45 R2-1(3) (8)

636 637 638 639 640 641 642

STH 83

(9) JCT M2-1 JCT M2-1 COUNTY E M1-5A COUNTY DE M1-5A J1-2(3)

SHEET 6 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 202	E

FILE NAME : J:\projects\d2_13301883\Sign\023206_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

17 W1-7(2S)

16 W6-3(3)

STH 83

642 643 644 645 646 647 648

STH 83

NA STR EET ME

MOVE BY TOWN

10 W2-6(2S)

12 15 M.P.H. W13-1(2S)

15 W3-2(3) 16" X 16" ORANGE FLAGS

HARVEST VIEW DR.

13 STOP R1-1(3)

14 NORTH 83 E E Tomlin Road DE Sunset Dr D1-1 TYPE 1

SHEET 7 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 203 E

FILE NAME : J:\projects\d2_13301883\Sign\023207_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

MATCH LINE - SEE SHEET 33

46 E Tomlin Rd D1-2

47 W11-2(2S) 48 W16-7L(2M)

49 R1-2(2S) 16" X 16" ORANGE FLAGS 50 R6-2R(2S)

51 R1-2(2S) 16" X 16" ORANGE FLAGS 52 TO TRAFFIC FROM LEFT R1-54(2S)

53 83 SOUTH D1-1

54 W11-2(2S) 55 W16-7L(2M)

56 SOUTH M3-3 83 M1-6 J4-1(2S)

57 WRONG WAY R5-1A(2S)

58 DO NOT ENTER R5-1(2S)

59 R4-7(2S) 60 W5-54(2S)

18 E Tomlin Rd Sunset Dr D1-2

19 20 NO PARKING ANY TIME R7-1D(3)

21 W11-2(2S) 22 W16-7L(2M)

23 R1-2(2S) 16" X 16" ORANGE FLAGS 24 ONE WAY R6-2R(2S)

25 R1-2(2S) 16" X 16" ORANGE FLAGS 26 TO TRAFFIC FROM LEFT R1-54(2S)

27 DE Sunset Dr D1-2

28 W11-2(2S) 29 W16-7L(2M)

61 63 65 67 ONE WAY R6-1R(2S)

62 64 66 68 R6-4B(2S)

44 W11-2(2S) 45 W16-7L(2M)

40 R1-2(2S) 16" X 16" ORANGE FLAGS 41 ONE WAY R6-2R(2S)

42 R1-2(2S) 16" X 16" ORANGE FLAGS 43 TO TRAFFIC FROM LEFT R1-54(2S)

38 W11-2(2S) 39 W16-7L(2M)

37 W12-1D(2S) 2' MOUNT HEIGHT

555 W11-2(2S) 556 W16-7R(2M)

36 83 NORTH D1-1

34 W11-2(2S) 35 W16-7L(2M)

30 R1-2(2S) 16" X 16" ORANGE FLAGS 31 ONE WAY R6-2R(2S)

32 R1-2(2S) 16" X 16" ORANGE FLAGS 33 TO TRAFFIC FROM LEFT R1-54(2S)

487 W11-2(2S) 488 W16-7L(2M)

MATCH LINE - SEE SHEET 34

CTH E

CTH DE

STH 83

58+00 59+00 60+00 0+19

648 649 650 651 652 653 654

XX

SHEET 8 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 204 E

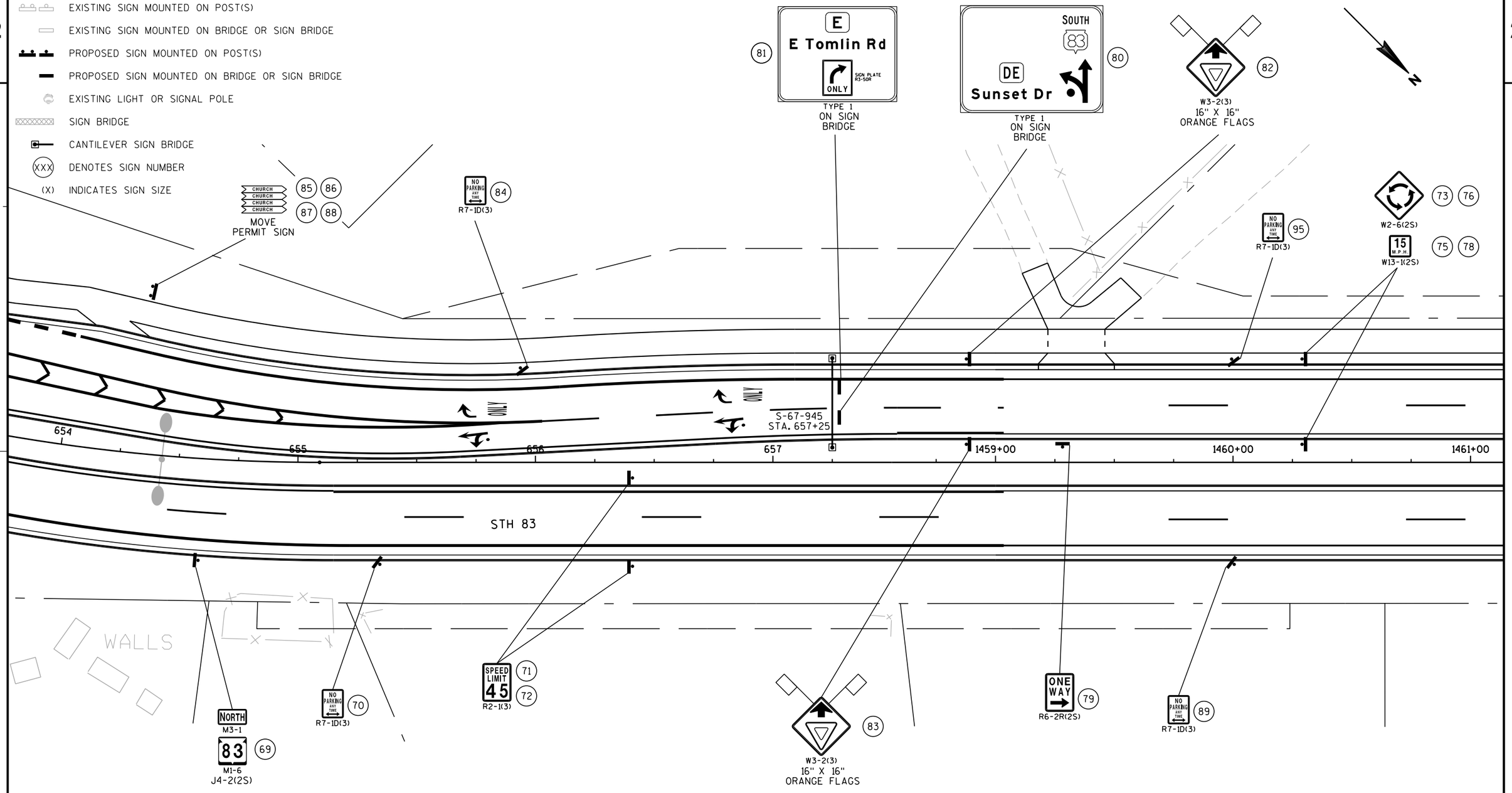
FILE NAME : J:\projects\d2_13301883\Sign\023208_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



2

SHEET 9 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 205 E

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

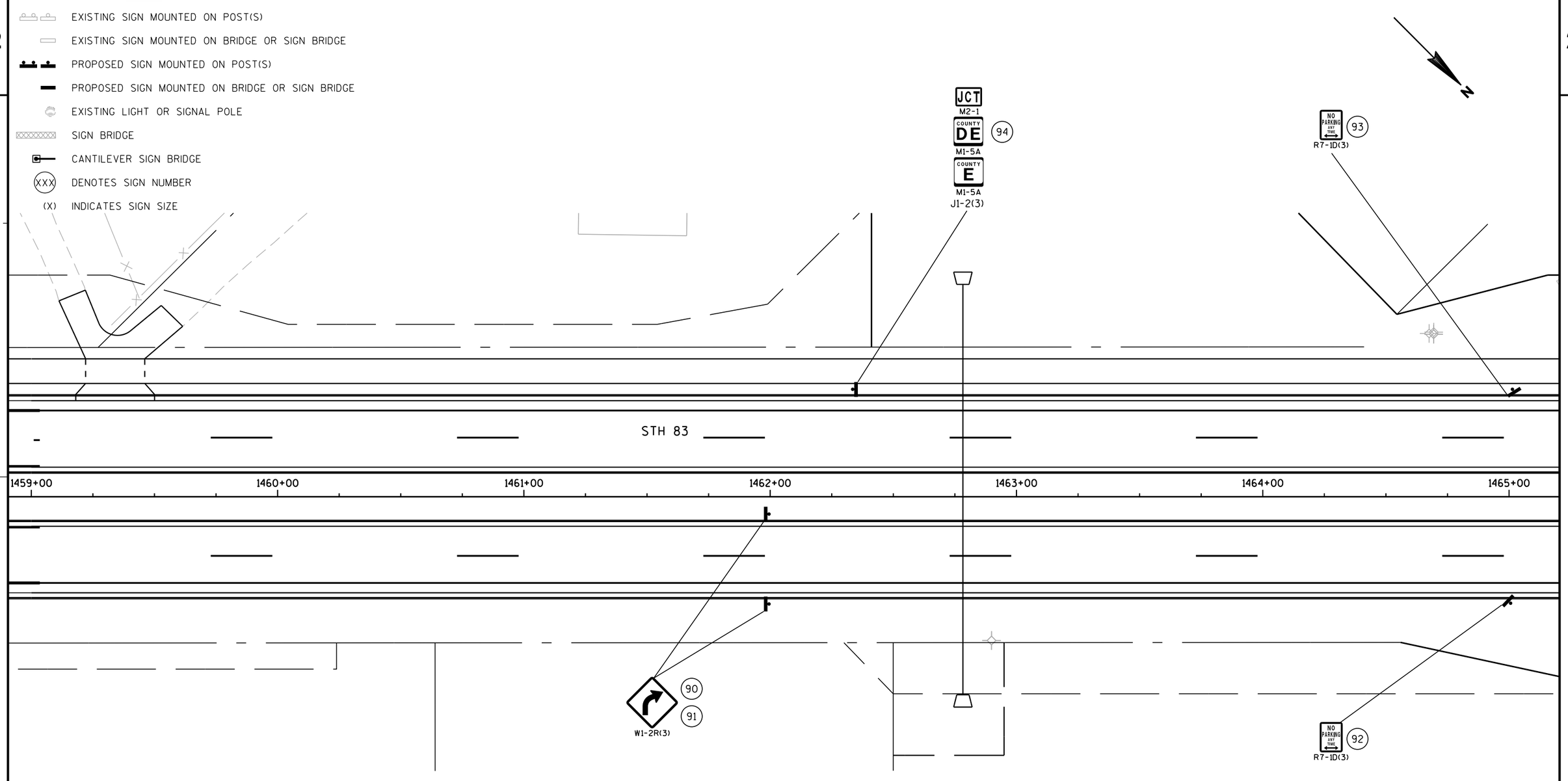
EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



SHEET 10 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 206	E

FILE NAME : J:\projects\d2_13301883\Sign\023210_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

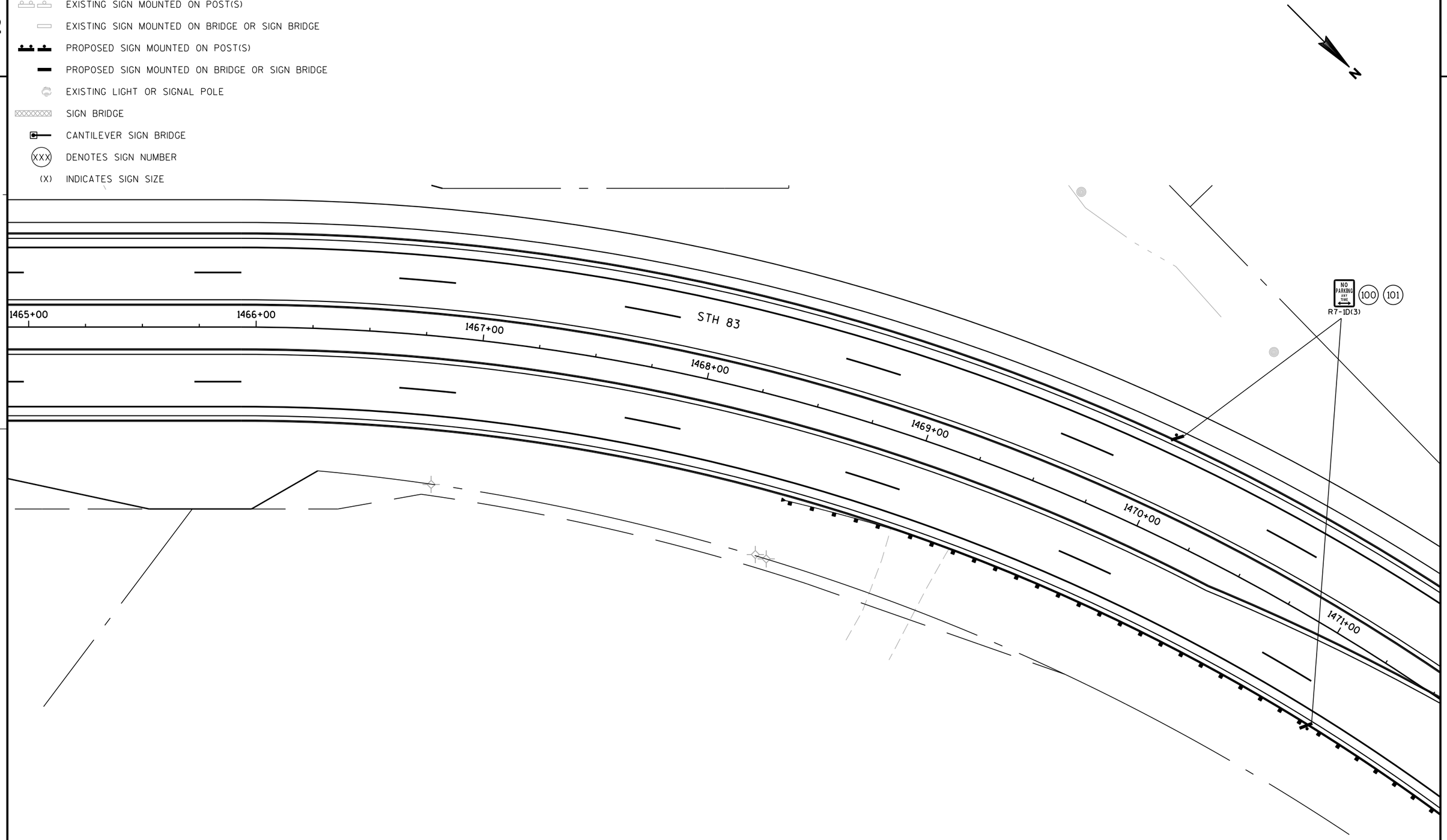
EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



2

SHEET 11 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 207	E

FILE NAME : J:\projects\d2_13301883\Sign\023211_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

48+00

49+00

PORTHAMEL CT.

STREET NAME SIGN MOVED BY VILLAGE

120 STOP R1-1(3)

121 DIVIDED HIGHWAY R6-3A(2S)

DO NOT ENTER 119 R5-1(3)

ONE WAY 113 R6-2L(2M)

STH 83

1471+00

1472+00

1473+00

1474+00

1475+00

1476+00

1477+00

FIRE TRUCKS ENTERING WHEN SIGNAL FLASHES 102

W54-60(3)
ON SIGNAL POLE
SEE ELECTRICAL PLAN
FIRE DEPARTMENT
MAINTAINS THE BEACON
BY PERMIT

WRONG WAY 103
R5-1A(3)

104 JCT M2-1 COUNTY G
M1-5A
J1-1(3)

R4-7(3) 107 108
ON LIGHT POLE

ONE WAY 109
R6-2L(2S)

110
W Brandybrook Road
NEXT INTERSECTION
D1-2

DO NOT ENTER 111
R5-1(3)

R4-7(3) 112 114
ON LIGHT POLE

SHEET 12 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 208 E

FILE NAME : J:\projects\d2_13301883\Sign\023212_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

2

WRONG WAY (158) R5-1A(3)

(156) (157) W1-2L(3)

NO PARKING ANY TIME (155) R7-1D(3)

(127) R4-7(3)

SOUTH M3-3 / 83 M1-6 (150) J4-1(2S)

FIRE TRUCKS ENTERING WHEN SIGNAL FLASHES (149) W54-60(3) ON SIGNAL POLE SEE ELECTRICAL PLAN

(146) SOUTH M3-3 / 83 M1-6 M6-1 — NORTH M3-1 / 83 M1-6 M6-1 J3-2(2S)

STOP (144) R1-1(3)

RIGHT TURN ONLY (145) R3-53R(2S)

STOP (142) R1-1(3)

DIVIDED HIGHWAY (143) R6-3A(2S)

MATCH LINE - SEE SHEET 13a

CTH G

49+00

POOL

STH 83

1477+00 1478+00 1479+00 1480+00 1481+00 1482+00 1483+00

NO PARKING ANY TIME (124) R7-1D(3)

(125) COUNTY G M1-5A — M5-1L J12-1(3)

(126) R4-7(3)

(128) E Brandybrook Road D1-2

(129) (130) W11-2(3) AHEAD WF16-9P(3)

(133) (134) W11-2(3) AHEAD WF16-9P(3)

(135) R4-7(3)

(136) COUNTY G M1-5A — M6-6 J13-1(3)

ONE WAY (137) R6-2L(2M)

SHEET 13 OF 38

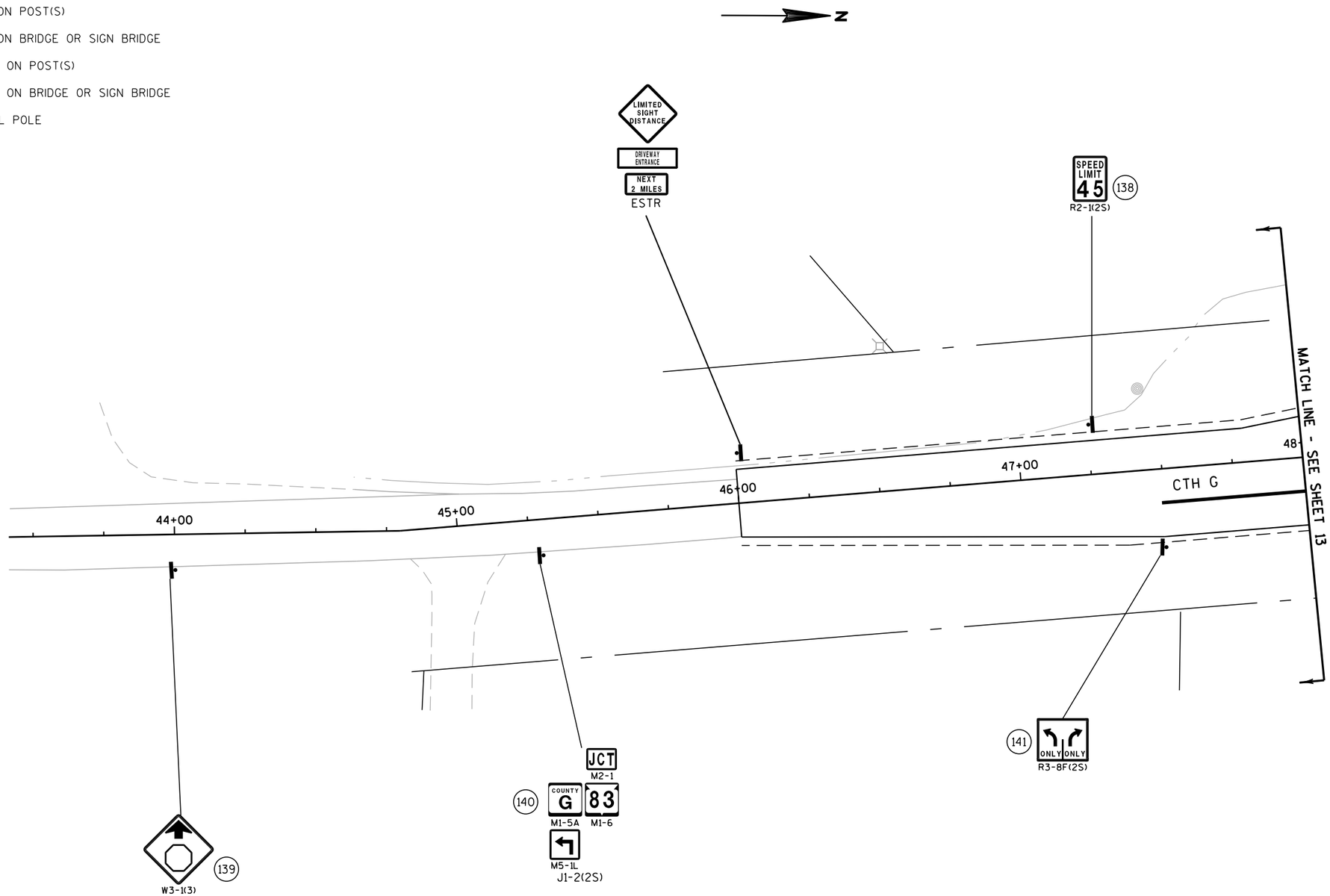
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 209	E

FILE NAME : J:\projects\d2_13301883\Sign\023213_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



2

N

DO NOT ENTER
(180) R5-1(3)

COUNTY G
(179) M1-5A
M6-1
J13-1(3)

WRONG WAY
(178) R5-1A(3)

NO PARKING ANY TIME
(177) R7-1D(3)

ONE WAY
(176) R6-2L(2M)

(175)(174) R4-7(3)
ON LIGHT POLE

(172) W11-2(3)
(173) W16-7L(3)

(170) W11-2(3)
W16-7R(3) (171)
ON LIGHT POLE

COUNTY G
(169) M1-5A
M5-1R
J12-1(3)

GRAVE STONE

STH 83

1483+00
1484+00
1485+00
1486+00
1487+00
1488+00
1489+00
50+00
51+00
52+00

E. BRANDYBROOK RD

(159) R4-7(3)

(160) NO PARKING ANY TIME R7-1D(3)

(161) WRONG WAY R5-1A(3)

NORTH M3-1
83 (162) M1-6
COUNTY G
M1-5A
J4-2(2S)

DO NOT ENTER (163) R5-1(3)

STREET NAME SIGN MOVED BY VILLAGE

(164) W11-2(3)
WF16-7L(3) (165)

ONE WAY (168) R6-2R(2S)

STOP (166) R1-1(3)

DIVIDED HIGHWAY (167) R6-3A(2S)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 211 E

FILE NAME : J:\projects\d2_13301883\Sign\023214_ps.dgn
PLOT DATE : 12-JUL-2013 11:49
PLOT BY : MSCMWB
PLOT NAME :
PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42

N

(190) SPEED LIMIT 45 R2-1(3)

SPEED LIMIT 45 R2-1(3) (553) ON LIGHT POLE

(189) NO PARKING ANY TIME R7-1D(3)

W Brandybrook Road (188) D1-2

JCT M2-1 (187) COUNTY G M1-5A J1-1(3)

(186) E Brandybrook Road D1-2

AVE
ONE

SIGN

STH 83

1489+00 1490+00 1491+00 1492+00 1493+00 1494+00 1495+00

(181) SPEED LIMIT 45 R2-1(3)

(182) SPEED LIMIT 45 R2-1(3) ON LIGHT POLE

(183) NO PARKING ANY TIME R7-1D(3)

(184) ROAD TO Glacial Drumlin State Trail 1/2 MILE D7-68

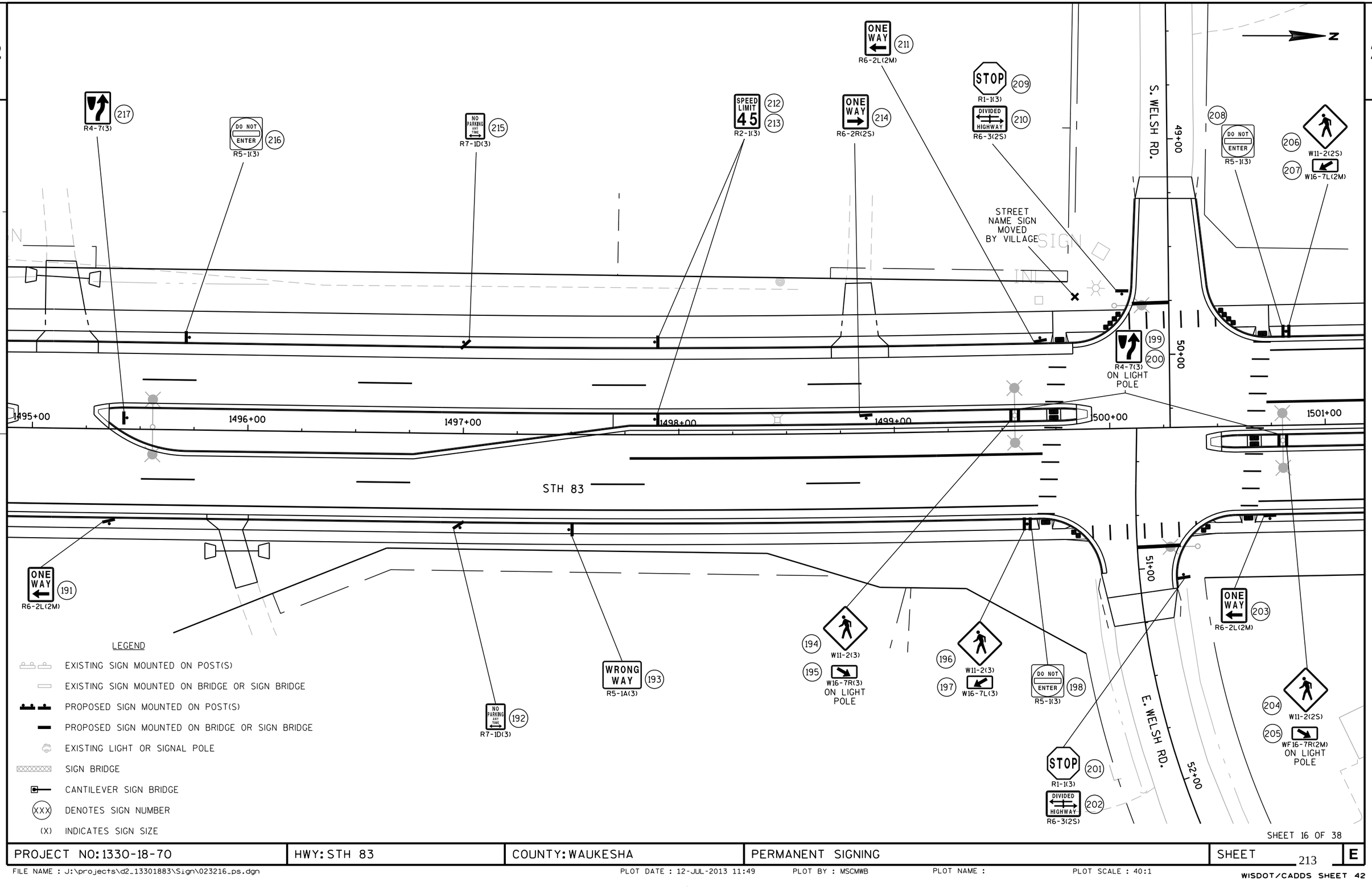
(185) R4-7(3)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 15 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 212 E



SHEET 16 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 213 E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

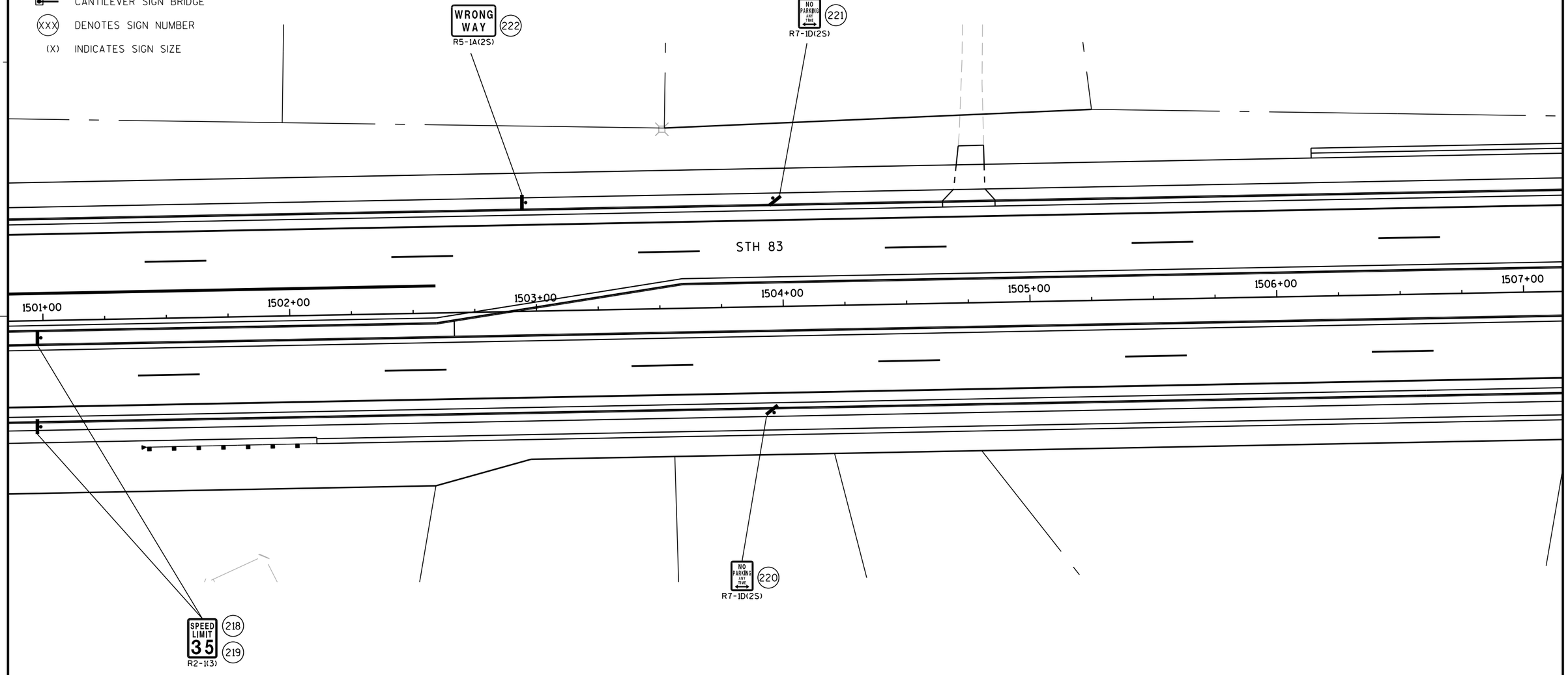
CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

2



SHEET 17 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 214	E

FILE NAME : J:\projects\d2_13301883\Sign\023217_ps.dgn PLOT DATE : 12-JUL-2013 11:49 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

STH 83

BENTON CT.

W. SOUTH ST.

STREET NAME SIGN MOVED BY VILLAGE

STREET NAME SIGN MOVED BY VILLAGE

1507+00 1508+00 1509+00 1510+00 1511+00 1512+00 1513+00

51+00

ONE WAY (241) R6-2L(2S)

STOP (239) R1-1(3)

DIVIDED HIGHWAY (240) R6-3(2S)

R4-7(2S) ON LIGHT POLE (242) (243)

DO NOT ENTER (238) R5-1(2S)

W11-2(2S) (236)

W16-7L(2M) (237)

W11-2(2S) AHEAD WF16-9P(2M) (223) (225) (224) (226)

SPEED LIMIT 35 (227) (228) R2-1(2S)

W11-2(2S) (229)

W16-7L(2M) (230)

DO NOT ENTER (231) R5-1(2S)

STOP (232) R1-1(3)

DIVIDED HIGHWAY (233) R6-3(2S)

ONE WAY (234) R6-2L(2S)

NO PARKING ANY TIME (235) R7-1D(2S)

SHEET 18 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 215 E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

W. CRIGLASS RD.

STH 83

51+00

52+00

53+00

54+

13+00

1514+00

1515+00

1516+00

1517+00

1518+00

1519+00

STOP 265
R1-1(3)
DIVIDED HIGHWAY 266
R6-3(2S)

ONE WAY 267
R6-2L(2S)

NO PARKING ANY TIME 268
R7-1D(2S)

DO NOT ENTER 264
R5-1(2S)

262
W11-2(2S)
263
W16-7L(2M)

NO PARKING ANY TIME 261
R7-1D(2S)

SPEED LIMIT 35 259
R2-1(2S)
260

258
R4-7(2S)
ON LIGHT POLE

248 249
R4-7(2S)
ON LIGHT POLE

ONE WAY 244
R6-2R(2S)

245
W11-2(2S)
246
W16-7L(2M)

DO NOT ENTER 247
R5-1(2S)

STREET NAME SIGN MOVED BY VILLAGE

STOP 250
R1-1(3)
DIVIDED HIGHWAY 251
R6-3(2S)

ONE WAY 252
R6-2L(2S)

NO PARKING ANY TIME 253
R7-1D(2S)

254
Glacial Drumlin State Trail
D7-95R

255
W11-2(2S)
256
W16-7L(2M)

DO NOT ENTER 257
R5-1(2S)

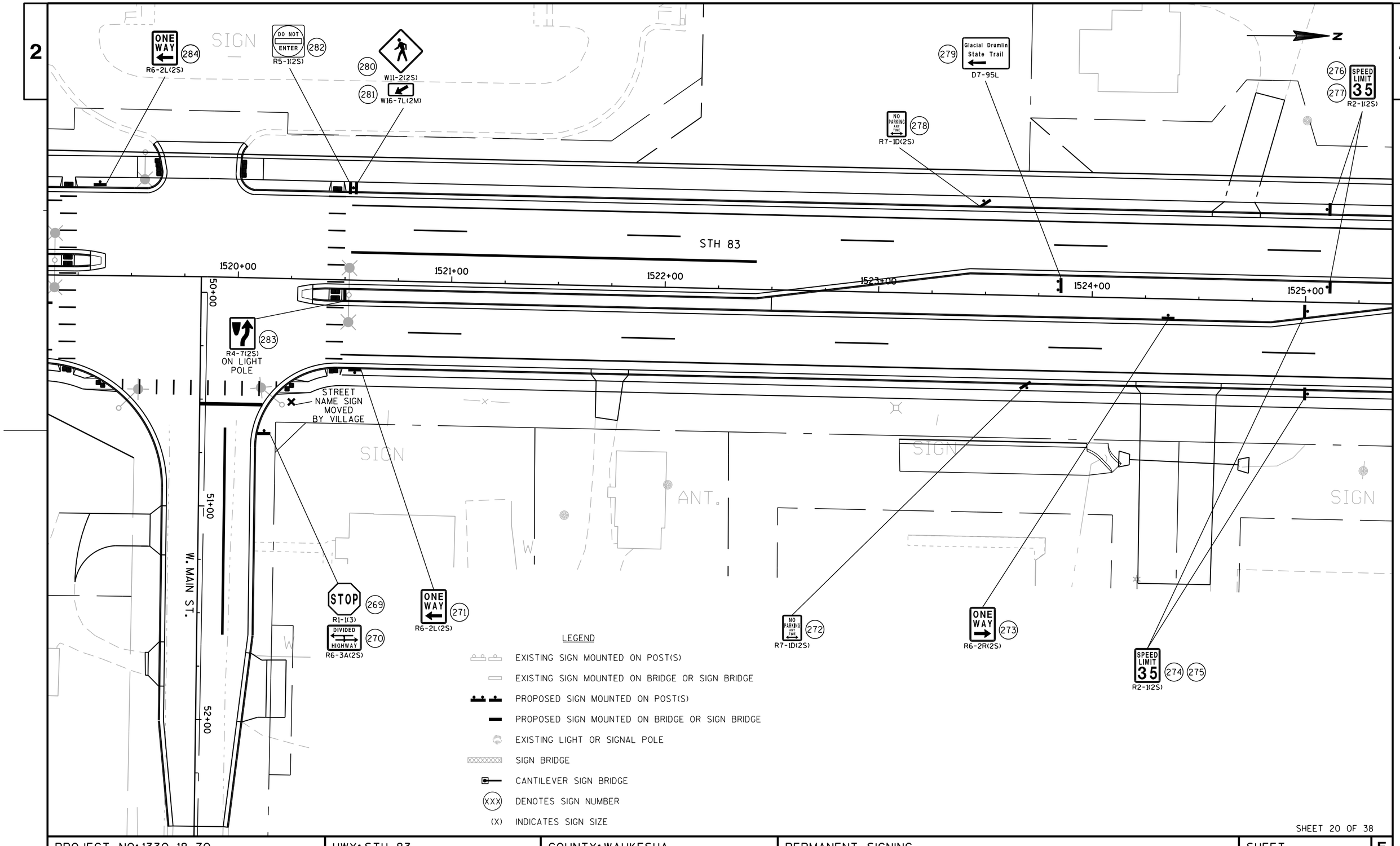
2

SHEET 19 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 216 E

FILE NAME : J:\projects\d2_13301883\Sign\023219_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42



SHEET 20 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 217	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

2

2

N

48+00

CYMRIC CT.

49+00

STOP 297 R1-1(3)

DIVIDED HIGHWAY 298 R6-3A(2S)

ONE WAY 299 R6-2L(2S)

STREET NAME SIGN MOVED BY VILLAGE

DO NOT ENTER 296 R5-1(2S)

294 W11-2(2S)

295 W16-7L(2M)

NO PARKING ANY TIME 293 R7-1D(2S)

STH 83

1526+00

1527+00

1528+00

1529+00

1530+00

1531+00

287 288 R4-7(2S) ON LIGHT POLE

285 W11-2(2S)

286 W16-7L(2M)

ONE WAY 560 R6-2L(2S)

JCT M2-1 289 18 M1-4 J1-1(2S)

NO PARKING ANY TIME 290 R7-1D(2S)

291 W5-52R(2S) 4' MOUNTING HEIGHT

292 W5-52L(2S) 4' MOUNTING HEIGHT

SIGN

FILLER CAPS

SHEET 21 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 218 E

FILE NAME : J:\projects\d2_13301883\Sign\023221_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

307 SOUTH M3-3 / 83 M1-6 / COUNTY G M1-5A J1-2(2S)

306 I55-56 MOVE

309 W5-52L(2S) 4' MOUNTING HEIGHT

308 W5-52R(2S) 4' MOUNTING HEIGHT

STH 83

1531+00 1532+00 1533+00 1534+00 1535+00 1536+00 1537+00

300 303 W2-6(2S)

302 305 15 M.P.H. W13-1(2S)

SHEET 22 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 219 E

FILE NAME : J:\projects\d2_13301883\Sign\023222_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

338 Mukwonago 10 — D2-1

336 SOUTH M3-3 / 83 M1-6 — J1-2(2S)

RIGHT TURN ONLY 334 — R3-53R(2S)

STOP 333 — R1-1(3)

DO NOT ENTER 330 — R5-1(2S)

332 — R4-7(2S) ON LIGHT POLE

335 DO NOT ENTER — R5-1(2S)

337 ONE WAY — R6-2R(2S)

331 — R4-7(2S)

Wales POPULATION 2,549 324 — I2-3

DO NOT ENTER 327 — R5-1(2S)

SPEED LIMIT 35 325 — R2-1(2S)

NO PARKING ANY TIME 323 — R7-1D(2S)

MH

1535+00 1536+00 1537+00 1538+00 1539+00 1540+00 1541+00

STH 83

328 — R4-7(2S)

S-67-946

NO PARKING ANY TIME 310 339 — R7-1D(2S)

Hartland
Dousman
Waukesha 311 — D1-3

DO NOT ENTER 312 — R5-1(2S)

313 — W12-1D(2S) 2' MOUNTING HEIGHT

DO NOT ENTER 315 — R5-1(2S)

ONE WAY 314 — R6-2R(2S)

319 NORTH 83 WEST 18 — TYPE 1

320 NORTH 83 EAST 18 — TYPE 1

318 RIGHT TURN ONLY — R3-53R(2S)

316 — W3-2(2S) 16" X 16" ORANGE FLAGS

COUNTY G 321 — M1-5A

M6-1 — J13-1(2S)

WATCH FOR WIDE TURNING TRUCKS 322 — W8-73(2S)

SHEET 23 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 220 E

FILE NAME : J:\projects\d2_13301883\Sign\023223_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES: 1. FOR SIGNS ON TUBULAR STEEL POSTS, PLACE TOP OF 2¼" X 2¼" ANCHOR LEVEL WITH THE TOP OF THE 12" DIAMETER PVC BOX-OUT (GROUND LEVEL).

380 SOUTH 83 — D1-1 ON STEEL POST

342 R1-2(2S) 16" X 16" ORANGE FLAGS

343 ONE WAY — R6-2R(2S) ON STEEL POST

378 W11-2(2S) 379 W16-7L(2M) ON STEEL POST

376 R1-2(2S) 16" X 16" ORANGE FLAGS 377 TO TRAFFIC FROM LEFT — R1-54(2S) ON STEEL POST

MATCH LINE - SEE SHEET 35

372 R1-2(2S) 16" X 16" ORANGE FLAGS 373 ONE WAY — R6-2R(2S) ON STEEL POST

369 W11-2(2S) 370 W16-7L(2M) ON STEEL POST

371 18 WEST — D1-1 ON STEEL POST

364 R1-2(2S) 16" X 16" ORANGE FLAGS 363 ONE WAY — R6-2R(2S) ON STEEL POST

365 W11-2(2S) 366 W16-7L(2M) ON STEEL POST

360 WATCH FOR WIDE TURNING TRUCKS — W8-73(2S)

361 Wales Mukwonago / Waukesha / Dousman — D1-4

357 NORTH 83 — D1-1 ON STEEL POST

362 NO PARKING ANY TIME — R7-1D(2S)

367 R1-2(2S) 16" X 16" ORANGE FLAGS 368 TO TRAFFIC FROM LEFT — R1-54(2S) ON STEEL POST

381 383 385 387 ONE WAY — R6-1R(2S)

382 384 386 388 R6-4B(2S)

H 18

79+00

80+00

STH 83

1540+00 1541+00 1542+00 1543+00 1544+00 1545+00 1546+00

ONE WAY

USH 18

MATCH LINE - SEE SHEET 36

340 W11-2(2S) 341 W16-7L(2M) ON STEEL POST

344 R1-2(2S) 16" X 16" ORANGE FLAGS 345 TO TRAFFIC FROM LEFT — R1-54(2S) ON STEEL POST

348 18 EAST — D1-1 ON STEEL POST

346 W11-2(2S) 347 W16-7L(2M) ON STEEL POST

353 R1-2(2S) 16" X 16" ORANGE FLAGS 354 TO TRAFFIC FROM LEFT — R1-54(2S) ON STEEL POST

355 W11-2(2S) 356 W16-7L(2M) ON STEEL POST

358 NORTH 83 M3-1 M1-6 J4-1(2S)

359 Delafield 3 / Hartland 7 / Hartford 23 — D2-3

351 W11-2(2S) 352 W16-7L(2M) ON STEEL POST

349 R1-2(2S) 16" X 16" ORANGE FLAGS 350 ONE WAY — R6-2R(2S) ON STEEL POST

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 24 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 221 E

FILE NAME : J:\projects\d2_13301883\Sign\023224_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

407 SOUTH 83 EAST 18 TYPE 1

409 W3-2(2S)

405 STOP R1-1(3)

406 RIGHT TURN ONLY R3-53R(2S)

404 ONE WAY R6-2R(2S)

403 ALTERNATE MB4-1 EAST MB3-2 INTERSTATE 94 M1-1 MB5-1L
ALTERNATE MB4-1 WEST MB3-4 INTERSTATE 94 M1-1 MB5-1R
J2-2(3) REMOVE

402 NO PARKING ANY TIME R7-1D(3)

396 399 W2-6(3)

398 401 15 M.P.H. W13-1(3)

SIGN

S-67-948

1546+00

1547+00

1548+00

1549+00

1550+00

1551+00

STH 83

389 390 SPEED LIMIT 45 R2-1(3)

408 SOUTH 83 WEST 18 TYPE 1 ON SIGN BRIDGE

391 STOP SCHOOL BUS FLASHING RED LIGHTS STATE LAW R59-51(3)

392 394 W2-50(4)

393 395 CLOSELY SPACED INTERSECTIONS W2-50P(4)

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 25 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 222	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

2

2

N

HIGH MEADOW LN. 49+00

50+00

51+00

52+00

HIGH MEADOW LN.

STH 83

1551+00 1552+00 1553+00 1554+00 1555+00 1556+00 1557+00

Ten Chimneys Nat'l Historic Landmark (433)
MOVE PERMIT SIGN

JCT M2-1 / 18 M1-4 / J1-1(3) (432)

NO TRESPASSING STATE OF WIS-OWNER VIOLATORS WILL BE PROSECUTED SEC 943.13 WIS STATUTES (430)
R5-98

ONE WAY (431)
R6-2L(2M)

STOP (428)
R1-1(3)

DIVIDED HIGHWAY (429)
R6-3(2S)

STREET NAME SIGN MOVED BY VILLAGE

DO NOT ENTER (427)
R5-1(3)

(425) W11-2(3)
(426) W16-7L(3)

(418) (419)
R4-7(3)

STREET NAME SIGN MOVED BY VILLAGE

(423) W11-2(3)
(424) W16-7R(3)

ALTERNATE (411)
MB4-1
INTERSTATE 94
M1-1
MB6-1
J3-1(3)

WRONG WAY (412)
R5-1A

(413) W11-2(3)
(414) W16-7R(3)

(415) W11-2(3)
(416) W16-7L(3)

DO NOT ENTER (417)
R5-1(3)

STOP (420)
R1-1(3)

DIVIDED HIGHWAY (421)
R6-3(2S)

ONE WAY (422)
R6-2L(2M)

(561) RIGHT LANE ENDS
W9-1R(3)

SHEET 26 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 223 E

FILE NAME : J:\projects\d2_13301883\Sign\023226_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

BOYS SCHOOL ROAD

STH 83

48+00

49+00

1557+00

1558+00

1559+00

1560+00

1561+00

1562+00

1563+00

STOP 443
R1-1(3)

DIVIDED HIGHWAY 444
R6-3A(2S)

448 NO ENGINE BRAKING EXCEPT IN EMERGENCY
R10-64
MOVE PERMIT SIGN

NO PARKING ANY TIME 447
R7-1D(3)

SPEED LIMIT 45 446
R2-1(3)

DO NOT ENTER 442
R5-1(3)

STREET NAME SIGN MOVED BY TOWN

WRONG WAY 441
R5-1A(3)

436
437
R4-7(3)

SPEED LIMIT 45 435
R2-1(3)

NO PARKING ANY TIME 438
R7-1D(3)

ONE WAY 439
R6-2L(2M)

W4-2R(3) 562

WRONG WAY 440
R5-1A(3)

2

SHEET 27 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 224 E

FILE NAME : J:\projects\d2_13301883\Sign\023227_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

ONE WAY (455) R6-2L(2M)

NO PARKING ANY TIME (454) R7-1D(3)

(453) BEGIN LEFT TURN LANE R3-20L(3)

FUTURE PED. PATH

(456) (457) R4-7(3)

STH 83

1564+00 1565+00 1566+00 1567+00 1568+00 1569+00

DO NOT ENTER (449) R5-1(3)

51+00

STREET NAME SIGN MOVED BY TOWN

GLACIER PASS

STOP (450) R1-1(3)

DIVIDED HIGHWAY (451) R6-3A(2S)

NO PARKING ANY TIME (452) R7-1D(3)

2

SHEET 28 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 225	E

FILE NAME : J:\projects\d2_13301883\Sign\023228_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

STH 83

1570+00 1571+00 1572+00 1573+00 1574+00 1575+00

463 R4-7(3)

464 W5-54(2S)

458 W6-2(2S)

459 WRONG WAY R5-1A(3)

460 SPEED LIMIT 45 R2-1(3)

461 DO NOT ENTER R5-1(3)

462 W6-3(2S)

SHEET 29 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 226 E

FILE NAME : J:\projects\d2_13301883\Sign\023229_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

SIGN BRIDGE

CANTILEVER SIGN BRIDGE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

5+00
1576+00
1577+00
1578+00
1579+00
1580+00
1581+00

STH 83

SHEET 30 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 227	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

W1-7(2S) 469

SPEED LIMIT 45 R2-1(3) 467 468

STOP R1-1(3) 466

1582+00

1583+00

1584+00

1585+00

1586+00

1587+00

STH 83

50+00

51+00

SIDE

W

SHEET 31 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 228	E

FILE NAME : J:\projects\d2_13301883\Sign\023231_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

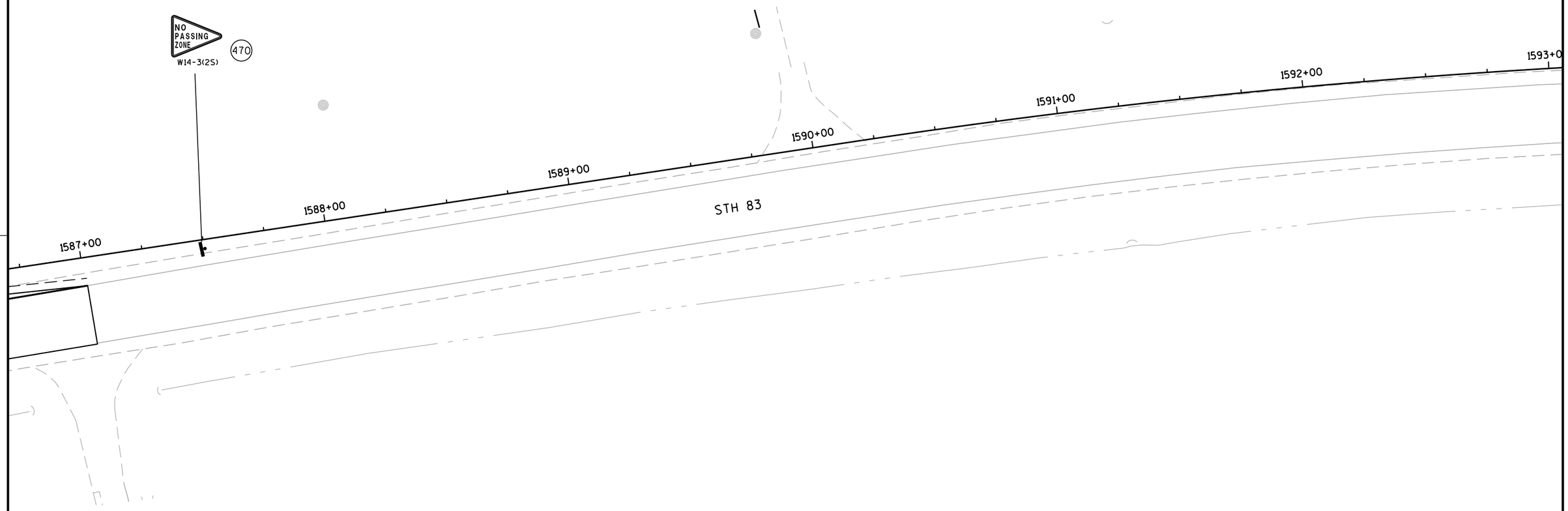
2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

NOTE: LOCATE NO PASSING PENNANTS BASED ON SPOTTING PAVEMENT MARKING

N



2

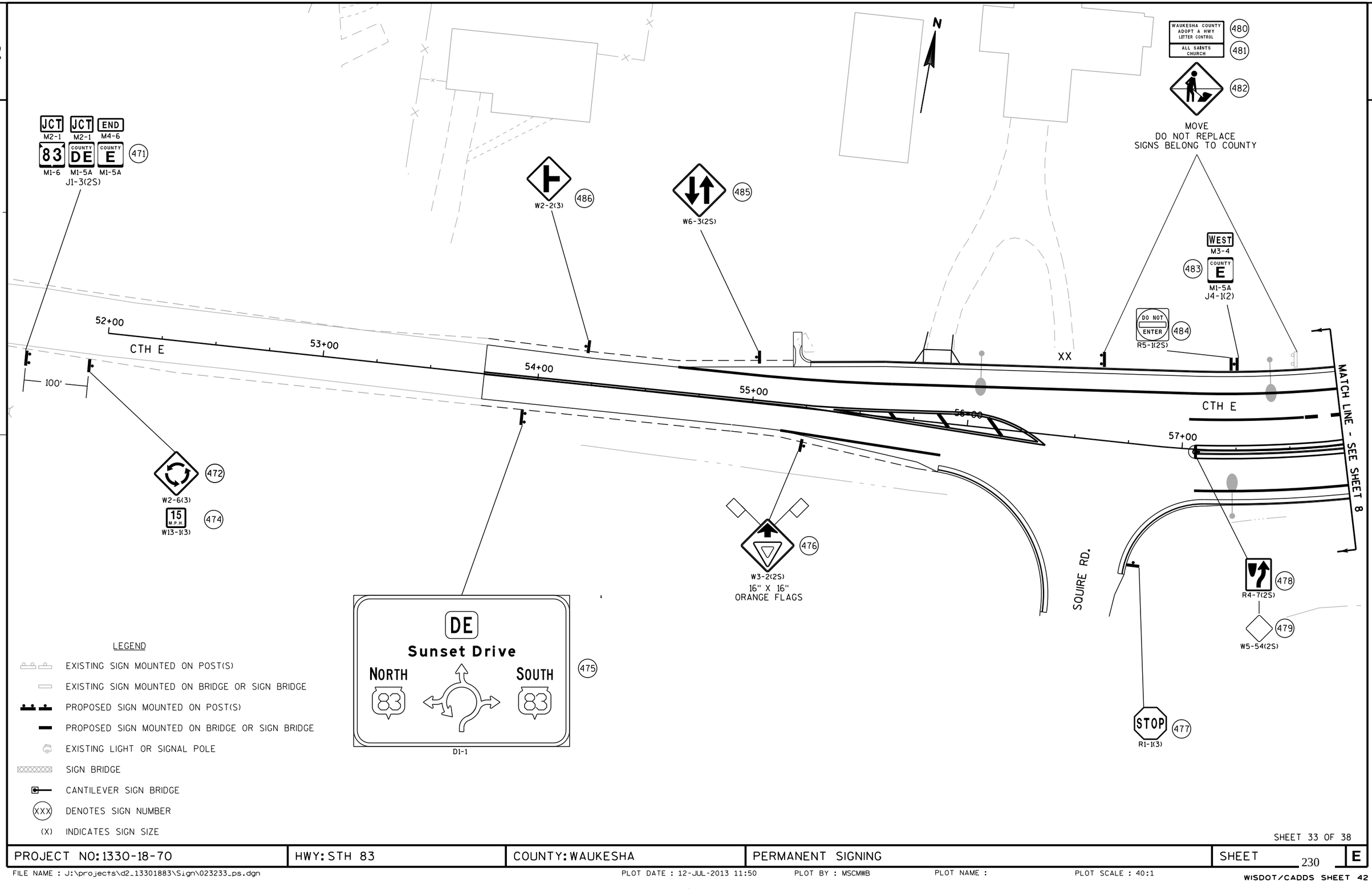
SHEET 32 OF 36

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 229	E

FILE NAME : J:\projects\d2_13301883\Sign\023232_ps.dgn PLOT DATE : 12-JUL-2013 11:50 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2



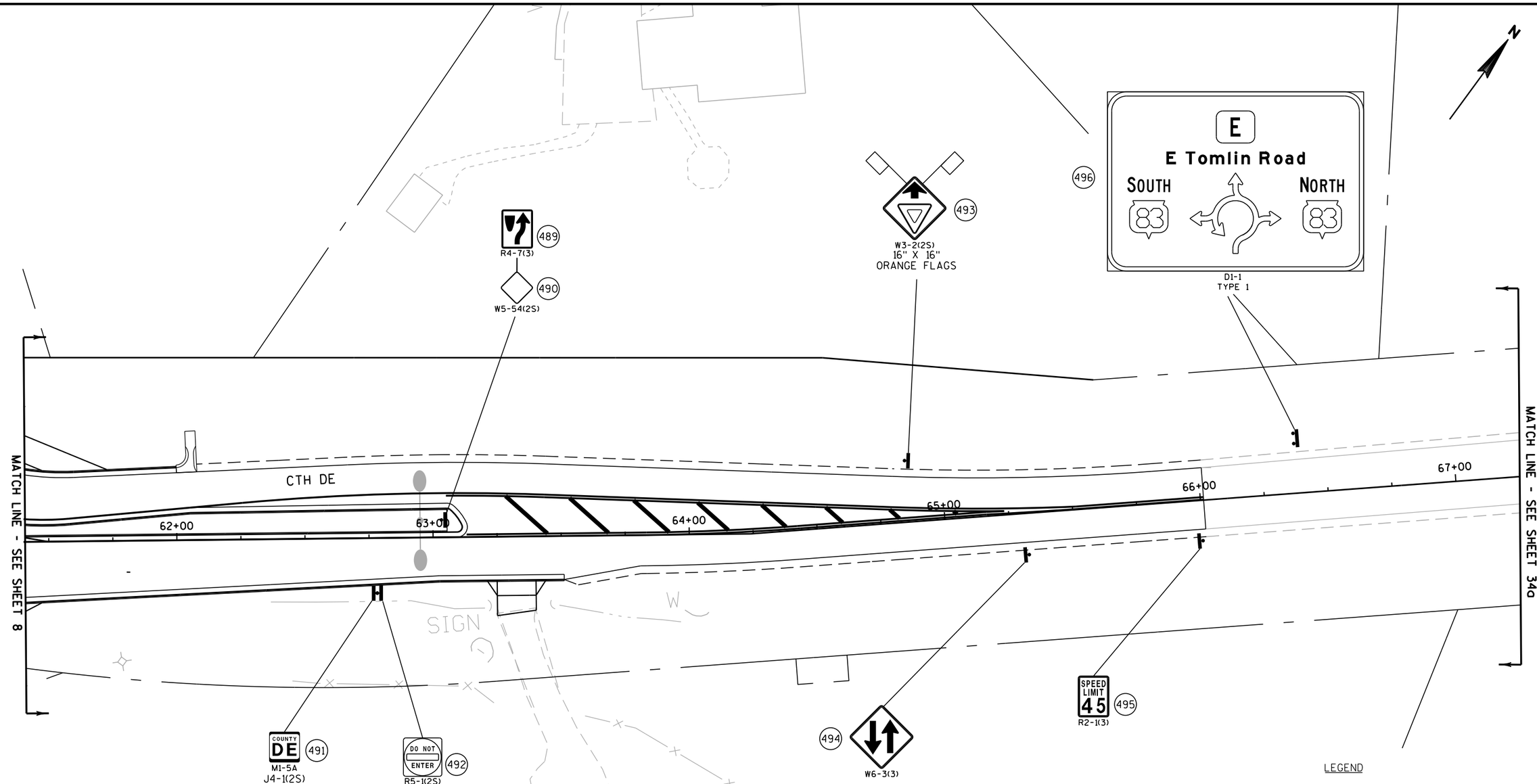
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 33 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 230 E

2



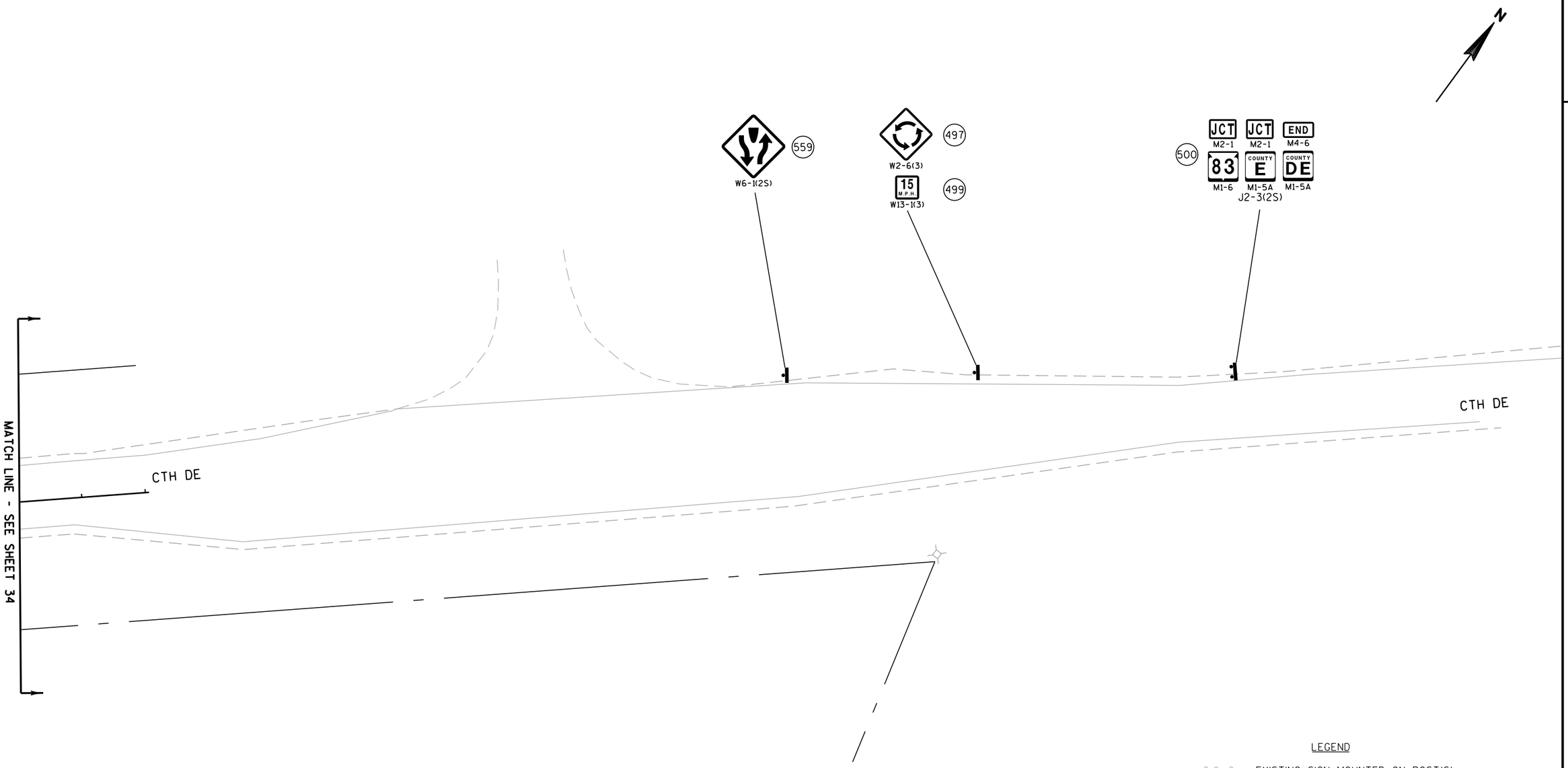
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 34 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 231	E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 34a OF 38

2

BLACKWOOD DRIVE

563 ONE WAY R6-1R

564 YIELD R1-2 MOVE ON STEEL POST

565 YIELD R1-2

566 TO TRAFFIC FROM LEFT R1-54 MOVE ON STEEL POST

567 W12-1D MOVE ON STEEL POST 2' MOUNTING HEIGHT

Blackwood Drive 518 D1-3 MOVE

517 ONLY R3-8DD(2S) MOVE

SIGN

74+00

75+00

76+00

77+00

78+00

S-67-947
STA 75+85

USH 18

MATCH LINE - SEE SHEET 24

374 W11-2(2S)
375 W16-7L(2M)
ON STEEL POST

18 EAST 570 MOVE ON STEEL POST

568 W11-2
569 WF16-7R
MOVE ON STEEL POST

507 EAST 18 NORTH 83 TYPE 1 ON SIGN BRIDGE

EAST 18 SOUTH 83 508 TYPE 1 ON SIGN BRIDGE

509 W3-2(2S) 16" X 16" ORANGE FLAGS ON SIGN BRIDGE UPRIGHT

511 Waukesha
Hartland
Mukwonago Wales
D1-4

512 ALT MB4-1A
EAST MB3-2
94 MILWAUKEE
M1-1
MB5-1L J2-1(2S)

NOTES: 1. FOR SIGNS ON TUBULAR STEEL POSTS, PLACE TOP OF 2¼" X 2¼" ANCHOR LEVEL WITH THE TOP OF THE 12" DIAMETER PVC BOX-OUT (GROUND LEVEL).

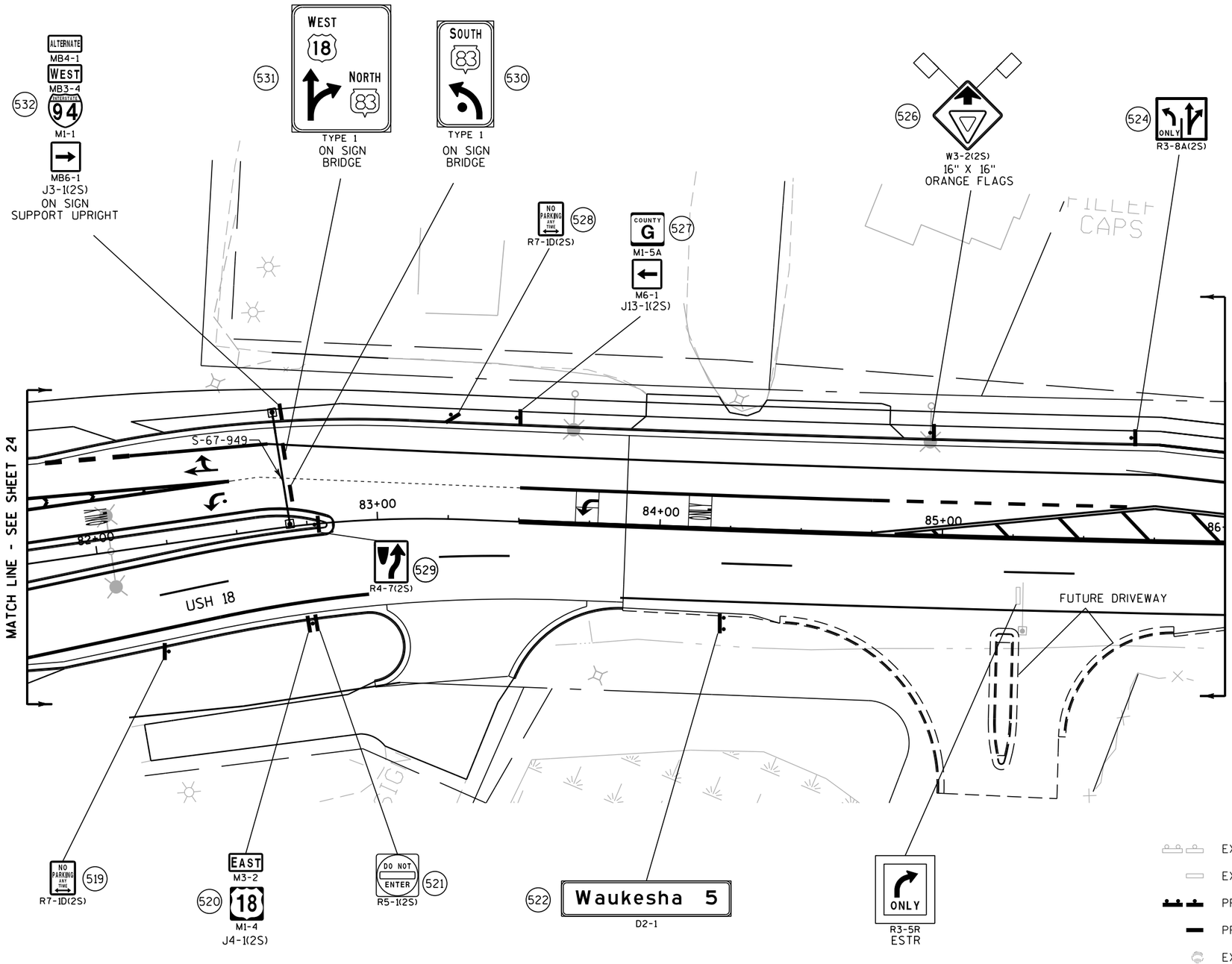
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 35 OF 38

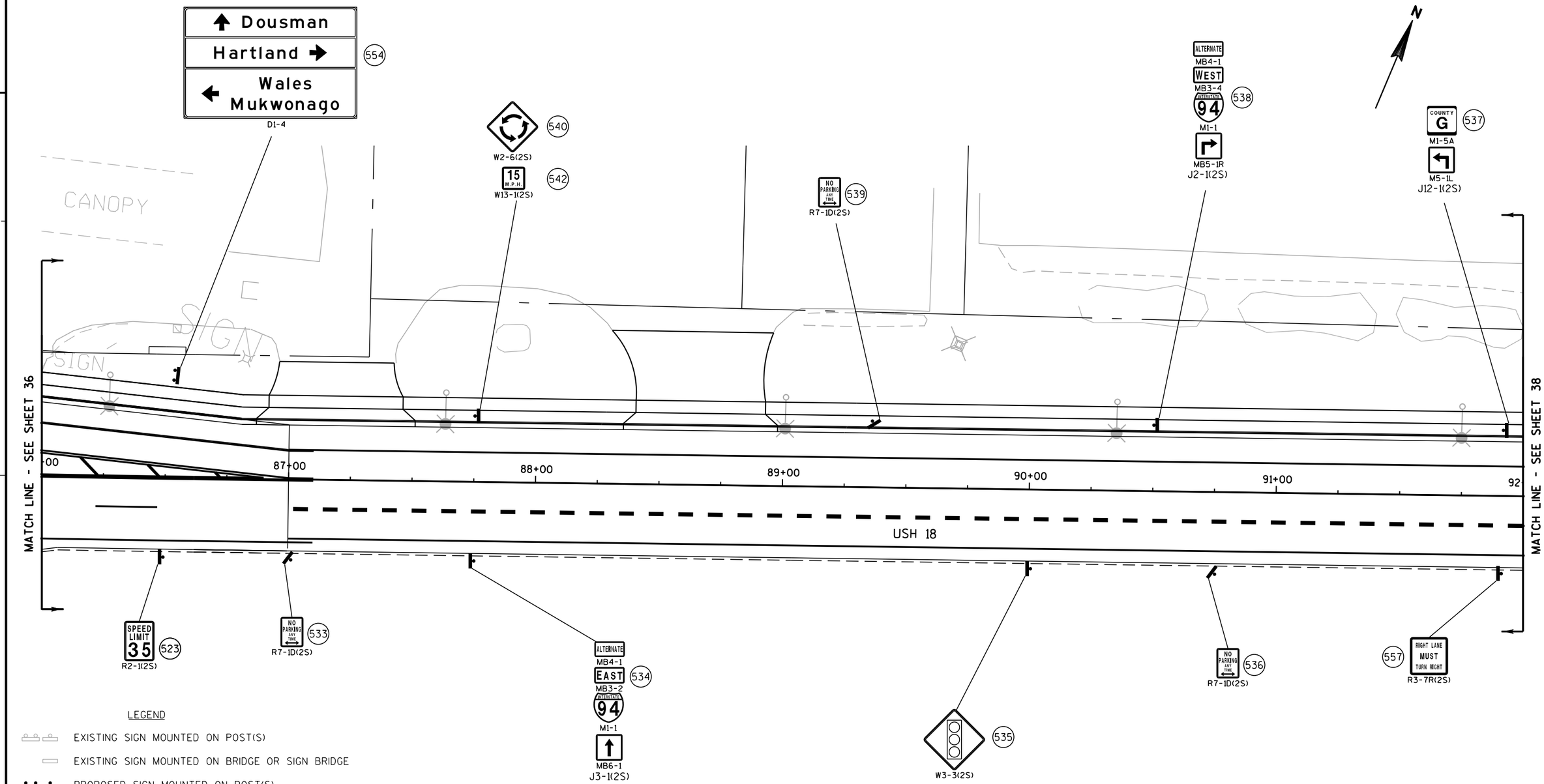
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 233	E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

2

N

MATCH LINE - SEE SHEET 37

92+00 93+00 94+00 95+00 96+00 97+00 98+00

USH 18

PC: 20+96.01

PI: 20+00.00

BP: 18+37.46

552 SPEED LIMIT 35 R2-1(2S) MOVE

551 NO PARKING ANY TIME R7-1D(2S)

550 JCT M2-1 83 M1-6 J1-1(2S)

549 NO PARKING ANY TIME R7-1D(2S)

547 548 STOP R1-1F(3) ON SIGNAL POLE

543 ONLY ONLY ONLY R3-8W(2S)

544 NO PARKING ANY TIME R7-1D(2S)

558 RIGHT LANE MUST TURN RIGHT R3-7R(2S)

545 546 STOP R1-1F(3) ON SIGNAL POLE

LEGEND

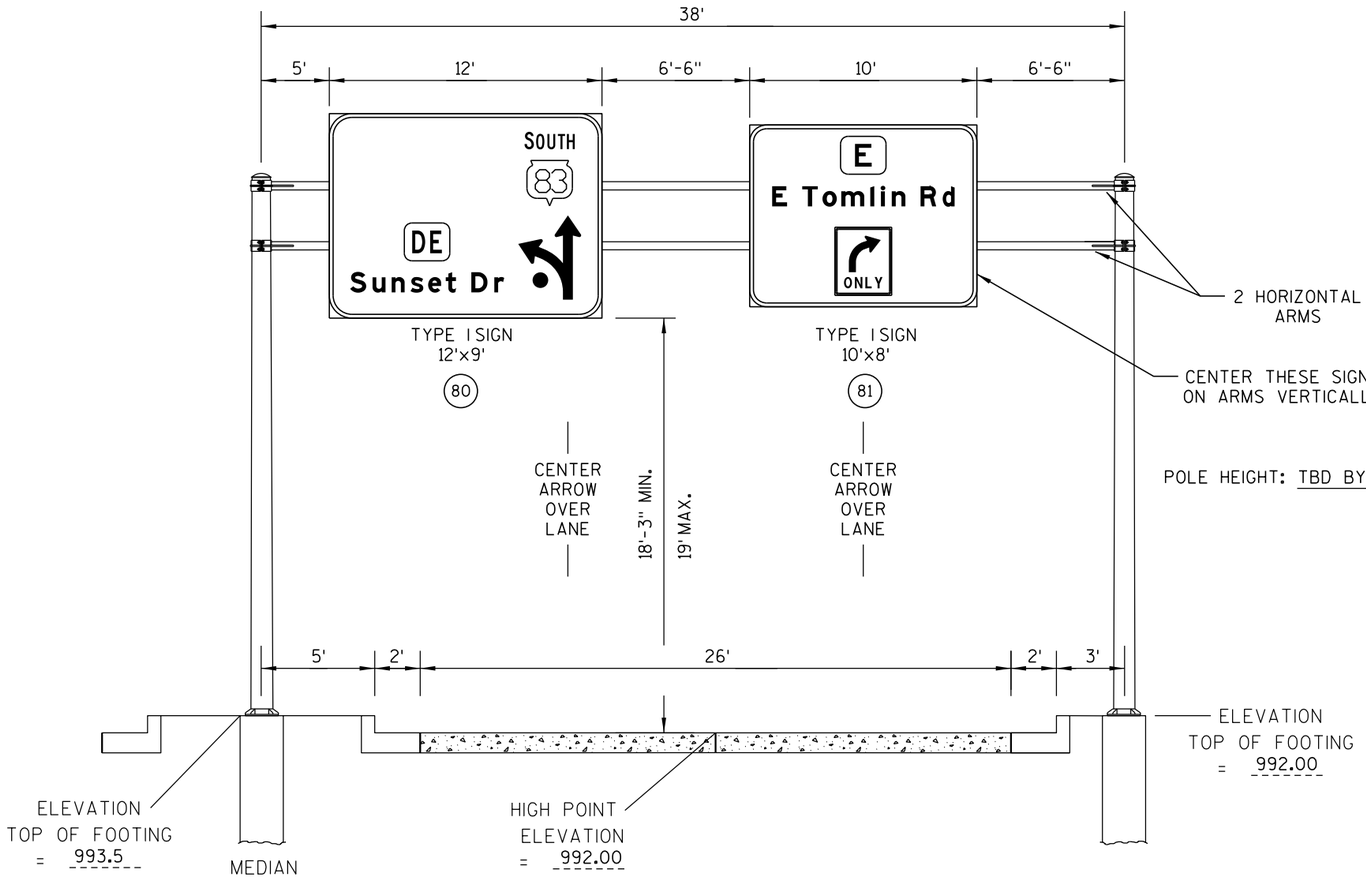
- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- SIGN BRIDGE
- CANTILEVER SIGN BRIDGE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 38 OF 38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PERMANENT SIGNING	SHEET 236 E

FOOTING SHALL BE PER SDD, " 36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE" AND INCIDENTAL TO STRUCTURE

W5X3.7 IBEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS.



OVERHEAD SIGN SUPPORTS DETAIL
S-67-945
STH 83 SB @ SUNSET
STATION 657+25

NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT.
5. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING.

GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGN SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

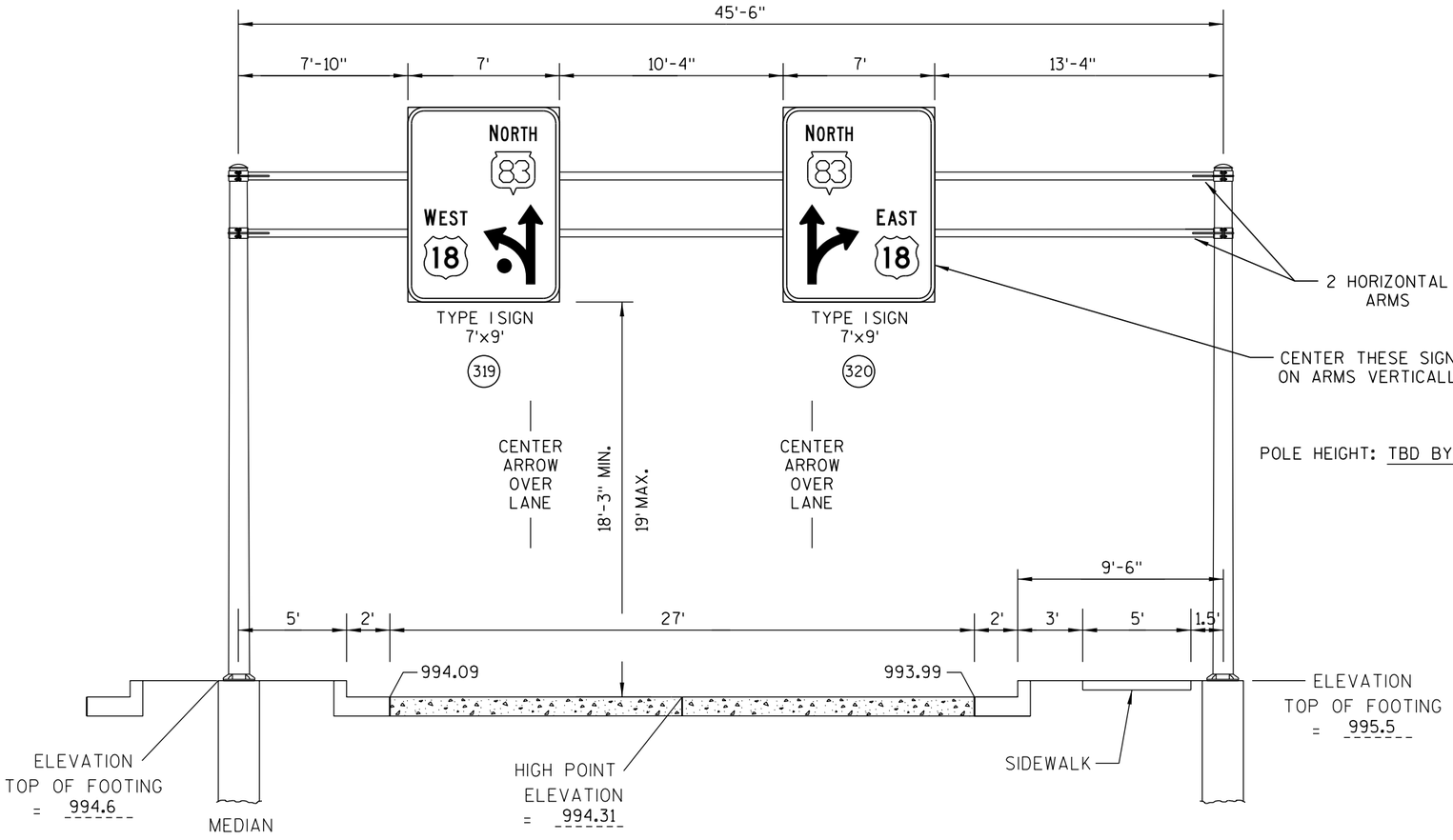
SHEET 1 OF 5

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	OVERHEAD SIGN SUPPORT S-67-945	SHEET 237	E

2

FOOTING SHALL BE PER SDD, " 36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE" AND INCIDENTAL TO STRUCTURE

W5X3.7 IBEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS.



OVERHEAD SIGN SUPPORTS DETAIL
S-67-946
STH 83 NB @ USH 18
STATION 1539+00

NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT.
5. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING.

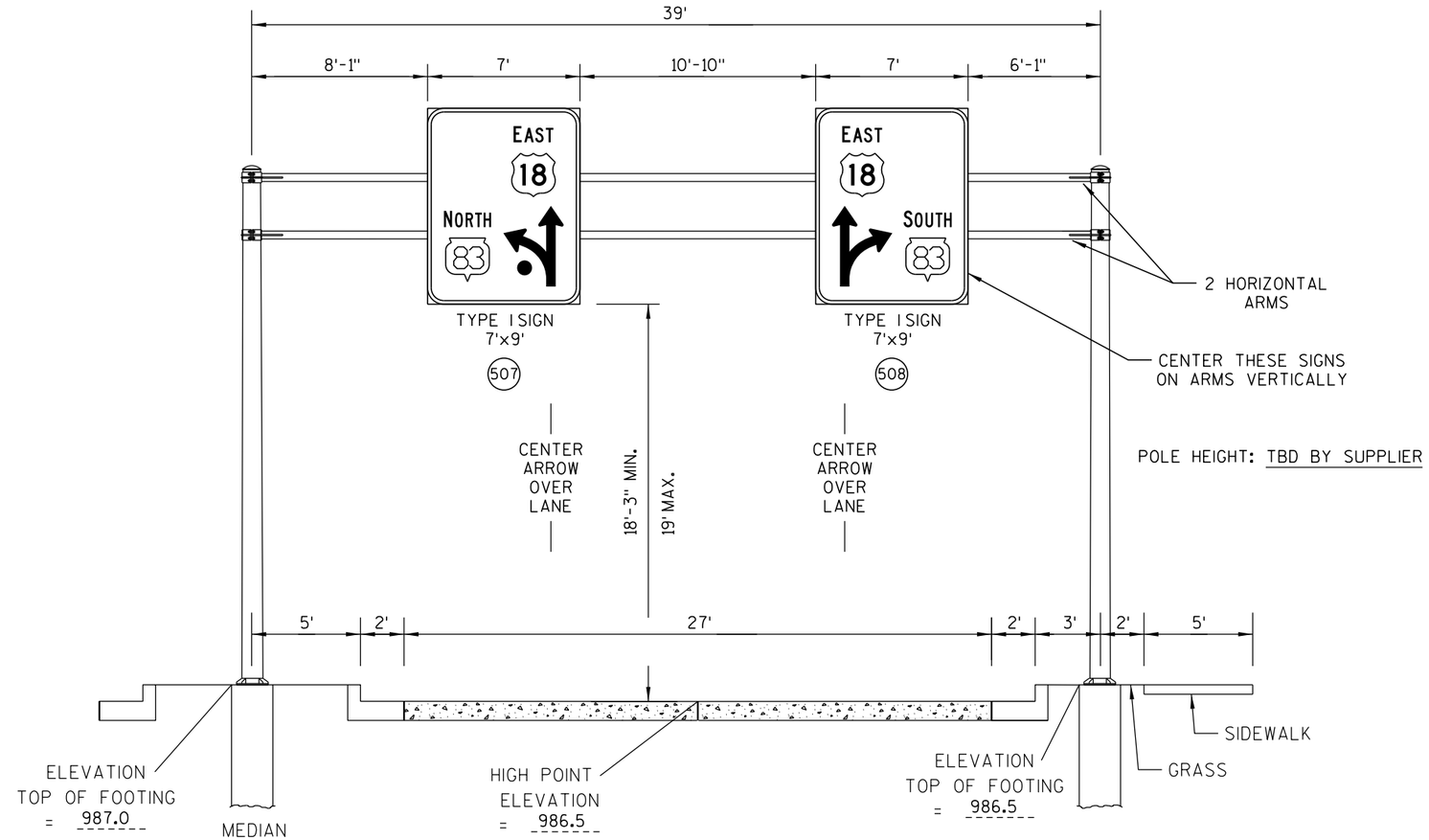
GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGN SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

2

FOOTING SHALL BE PER SDD, " 36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE" AND INCIDENTAL TO STRUCTURE

W5X3.7 IBEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS.



OVERHEAD SIGN SUPPORTS DETAIL
S-67-947
USH 18 EB @ STH 83
STATION 75+85

NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT.
5. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING.

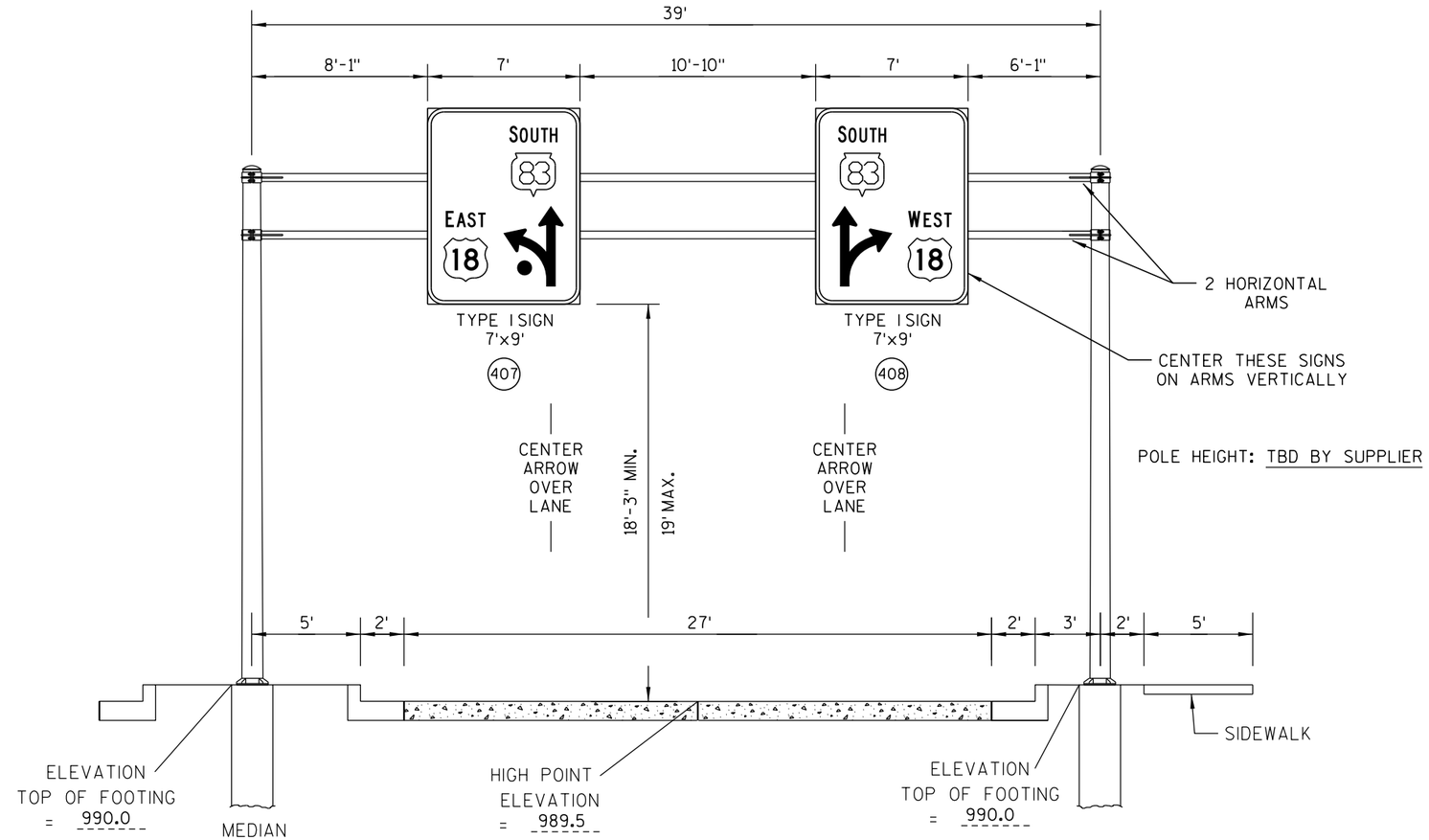
GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGN SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

2

FOOTING SHALL BE PER SDD, " 36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE" AND INCIDENTAL TO STRUCTURE

W5X3.7 IBEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS.



OVERHEAD SIGN SUPPORTS DETAIL
S-67-948
STH 83 SB @ USH 18
STATION 1546+30

NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT.
5. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING.

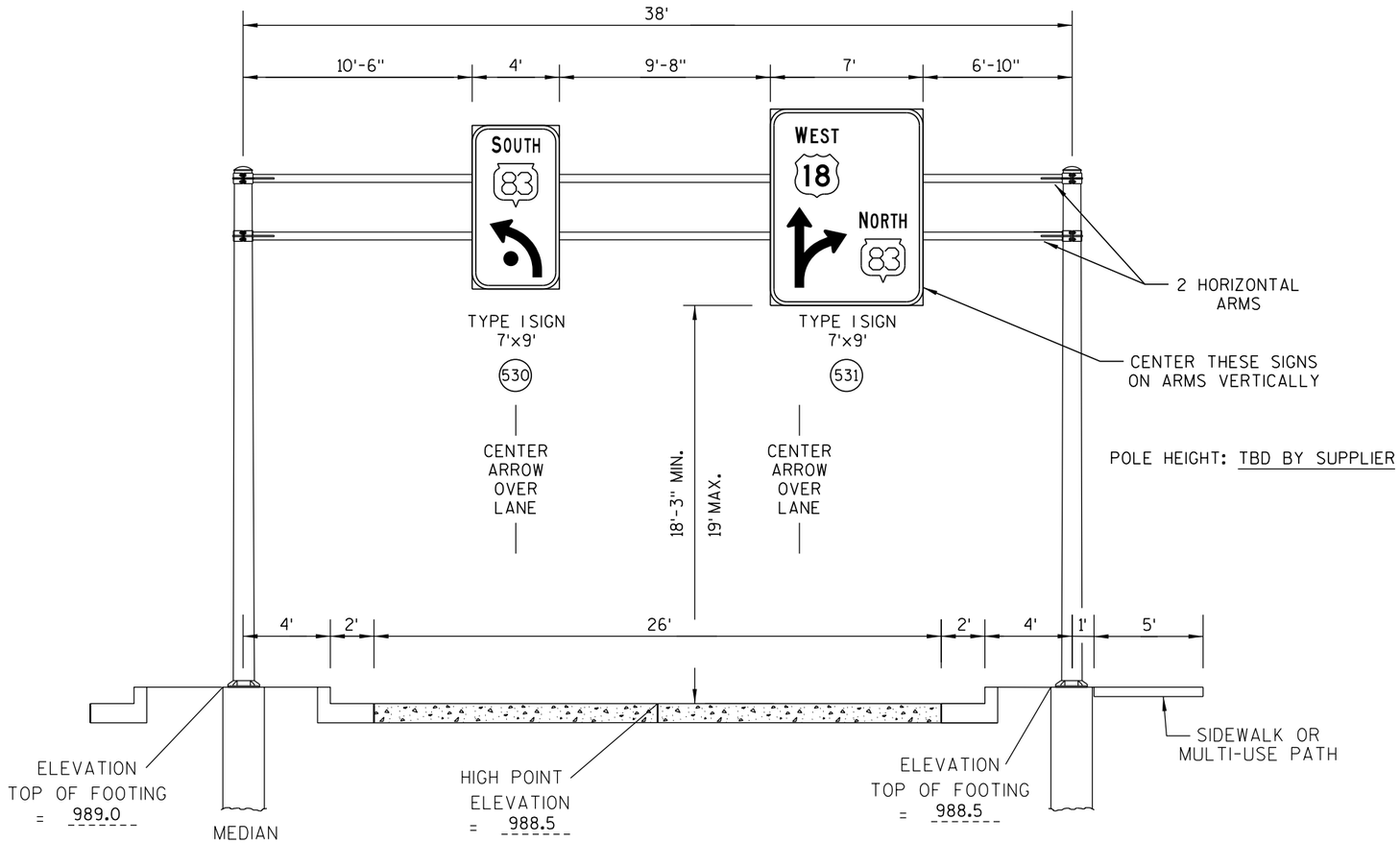
GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGN SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

2

FOOTING SHALL BE PER SDD, " 36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE" AND INCIDENTAL TO STRUCTURE

W5X3.7 IBEAMS FOR MOUNTING SIGNS ARE INCIDENTAL TO TYPE I SIGNS.



OVERHEAD SIGN SUPPORTS DETAIL
S-67-949
USH 18 WB @ STH 83
STATION 82+35

SKEW:
LEFT UPRIGHT - STA 82+35
RIGHT UPRIGHT - STA 82+40

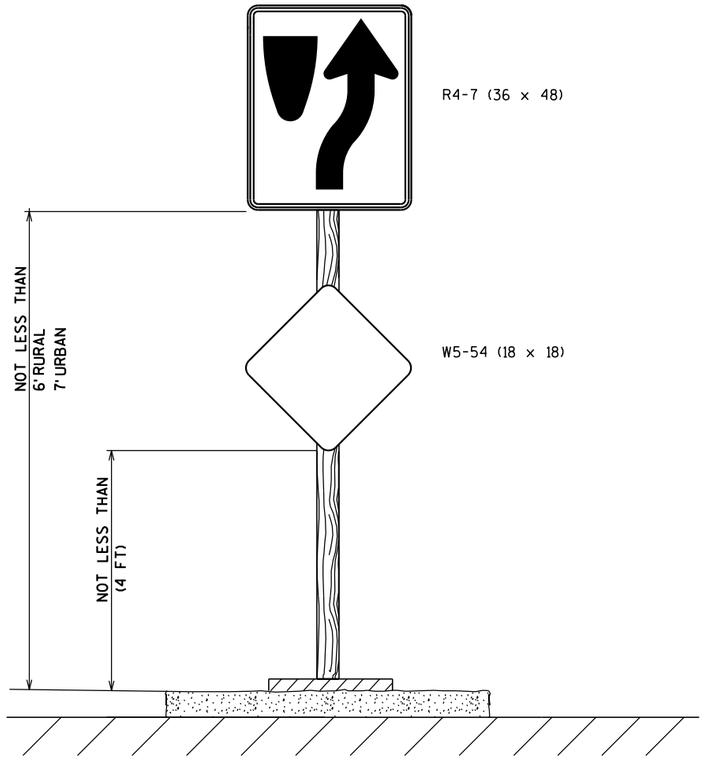
NOTE, CONTRACTOR SHALL:

1. SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2. PROVIDE DESIGN CALCULATIONS.
3. SHOW SIGNS ON SHOP DRAWINGS.
4. I.D. PLAQUE INCIDENTAL TO OVERHEAD SIGN SUPPORT.
5. 6 ANCHOR RODS MINIMUM PER STANDARD DETAIL DRAWING.

GENERAL NOTES

1. DRAWINGS NOT TO SCALE.
2. DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".
3. THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGN SHOWN.
4. WIND VELOCITY PER WISDOT STD SPECIFICATIONS.
5. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

2

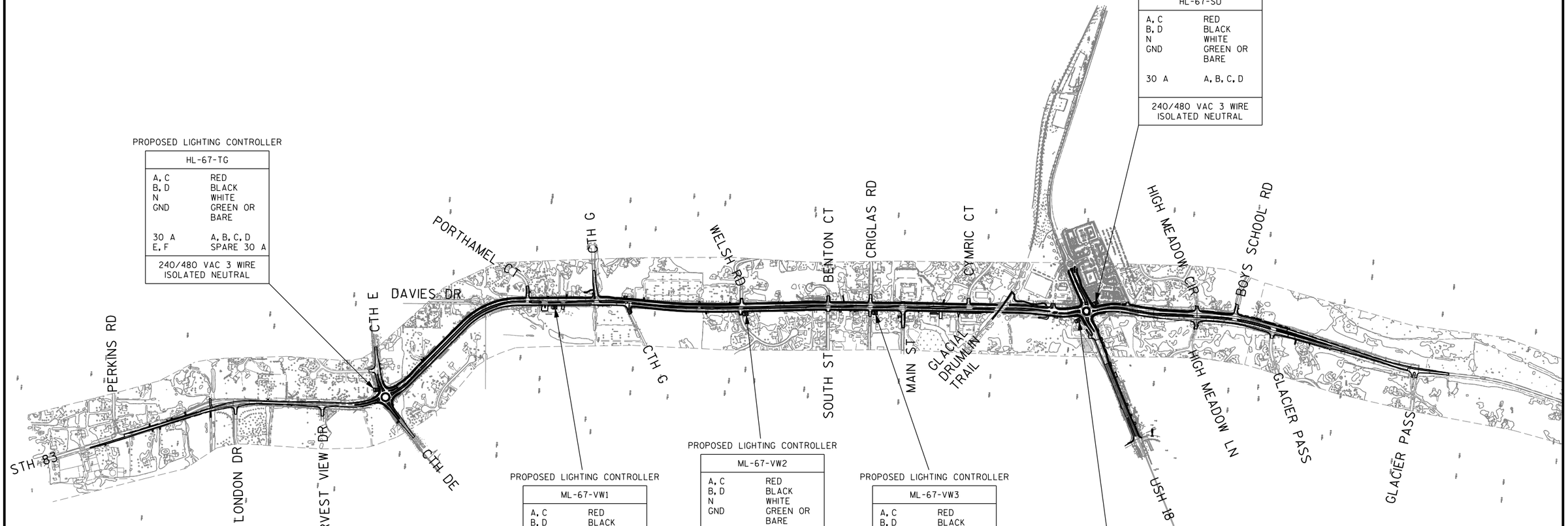


TYPICAL INSTALLATION FOR
TRANSITION TO DIVIDED HIGHWAY
OR OTHER SPECIAL NEEDS AREAS

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TYPICAL DETAIL - SIGN ON MEDIAN NOSE	SHEET 242	E

2

N



PROPOSED LIGHTING CONTROLLER

HL-67-TG	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

EXISTING LIGHTING CONTROLLER TO BE SALVAGED

HL-67-SU	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROPOSED LIGHTING CONTROLLER

ML-67-VW1	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROPOSED LIGHTING CONTROLLER

ML-67-VW2	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROPOSED LIGHTING CONTROLLER

ML-67-VW3	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROPOSED LIGHTING CONTROLLER

ML-67-VW4	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING - CONTROLLER OVERVIEW	SHEET 243	E

LIGHTING GENERAL NOTES:

HIGHWAY LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 TO 657 AND 659 EXCEPT:

1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

2. LOCATIONS OF THE PVC CONDUITS ARE INDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, INSTALLATION WILL REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. UNDER THE APPROVAL OF THE ENGINEER, APPROPRIATE ADJUSTMENT OF CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED TO ILLUSTRATE AS BUILT CONDITIONS.

3. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

4. ALL OPEN AND UNTERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATLY AFTER INSTALLATION.

5. BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

6. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.

7. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT THAT CAN BE EASILY REMOVED. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.

8. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.

9. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.

10. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (PDF FORMAT) FOR ALL THE WORK BEING DONE.

11. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION.

12. UNDERGROUND WIRE & CONDUIT SHOWN ON REMOVAL PLANS FOR REMOVAL SHALL BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.

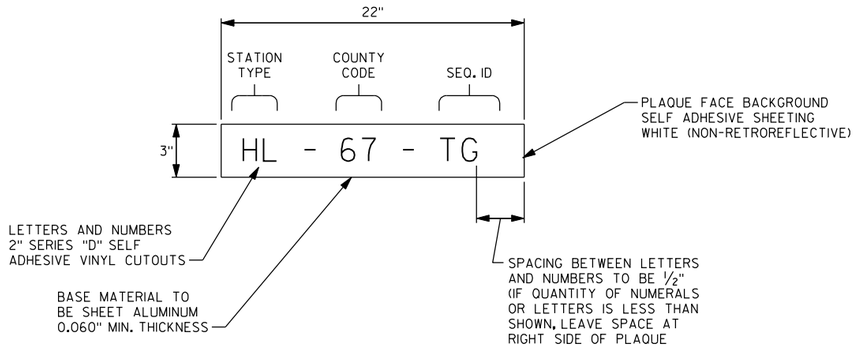
13. THE CONTRACTOR SHALL VERIFY THE BOLT CIRCLE DIMENSIONS ON EXITING BASES TO BE RE-USED PRIOR TO ORDERING NEW POLES.

14. PROVIDE MINIMUM CABLE SLACK AS MENTIONED BELOW:
    PULL BOXES: 3-FT
    EMBEDDED JUCTION BOXES: 3-FT
    DISTRIBUTION CENTER/LOAD CENTER: 10-FT
    POLES: 5-FT IN AND 5-FT OUT

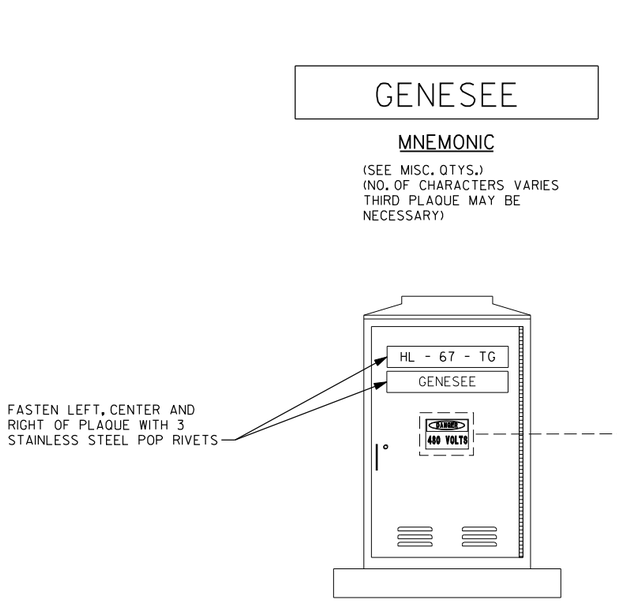
2

GENERAL NOTES:

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

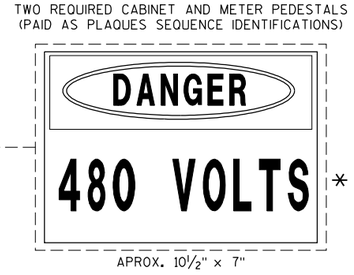


DISTRIBUTION CENTER
IDENTIFICATION PLAQUE



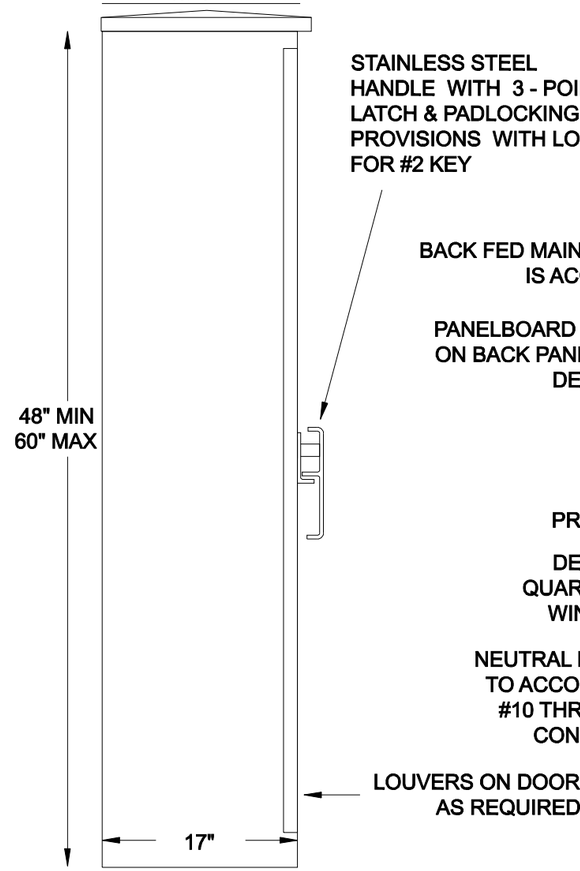
DISTRIBUTION CENTER IDENTIFICATION PLAQUE
REQUIREMENTS AND PLACEMENTS

(TYPICAL ALL CONTROL CABINETS)

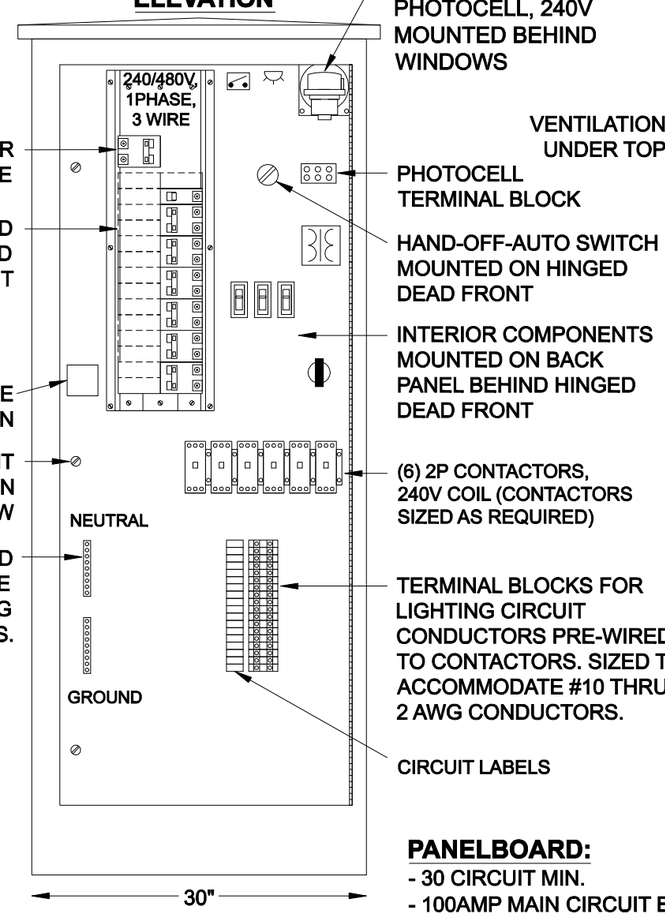


*SOME LOCATIONS WILL BE 240 VOLTS

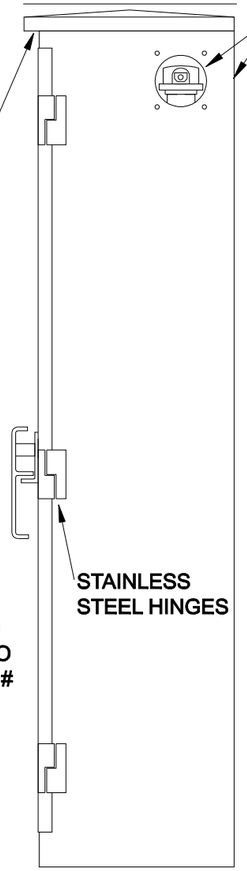
LEFT SIDE VIEW

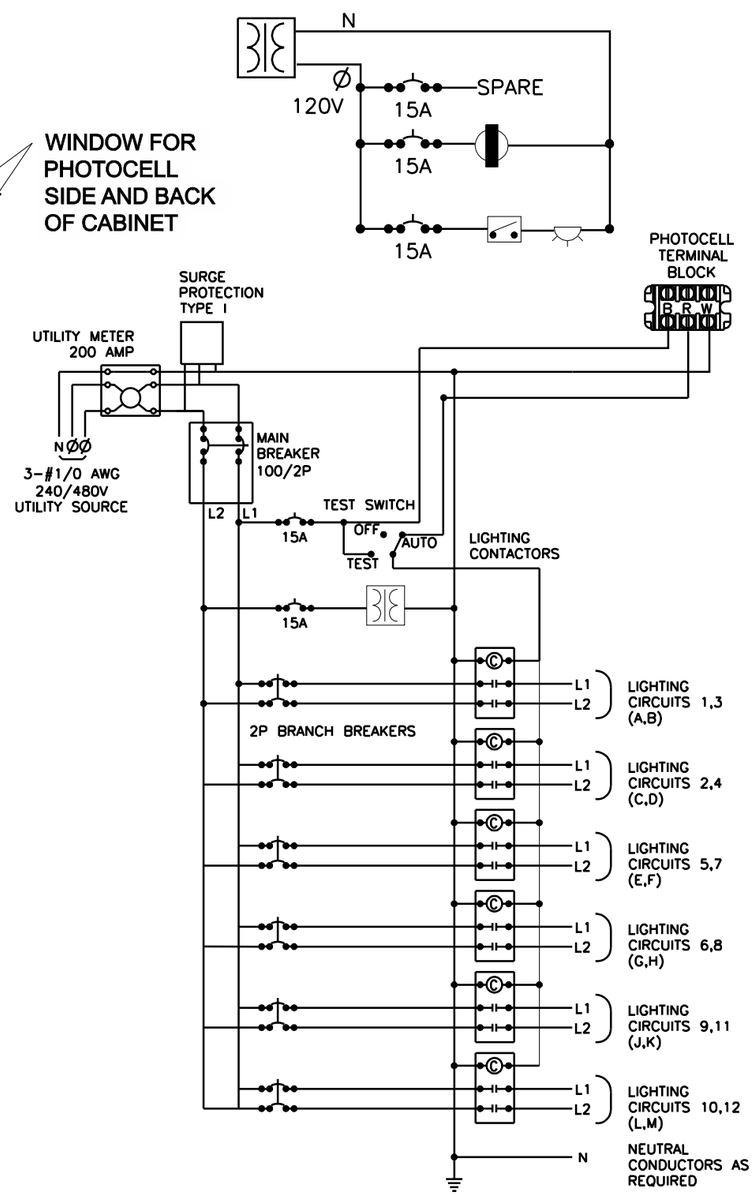


FRONT INTERIOR ELEVATION



RIGHT SIDE VIEW





LEGEND:

- 15AMP GFCI DUPLEX RECEPTACLE WITH COVER, 120V,
- 1.5KVA, SINGLE PHASE ENCAPSULATED TRANSFORMER 240//120V, 60HZ
- SPST, 20AMP SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
- INCANDESCENT LIGHTING FIXTURE 60WATT, 120V LAMP.
- 15AMP/1P CIRCUIT BREAKER, 120V

PANELBOARD:

- 30 CIRCUIT MIN.
- 100AMP MAIN CIRCUIT BREAKER
- COPPER BUS
- BOLT- ON BREAKERS
- 22K AIC
- (2) 15A/1P CONTROL BREAKER, 120V
- (1) 15A/1P CONTROL BREAKER, 120V, SPARE
- (6) 30A/2P BRANCH BREAKERS

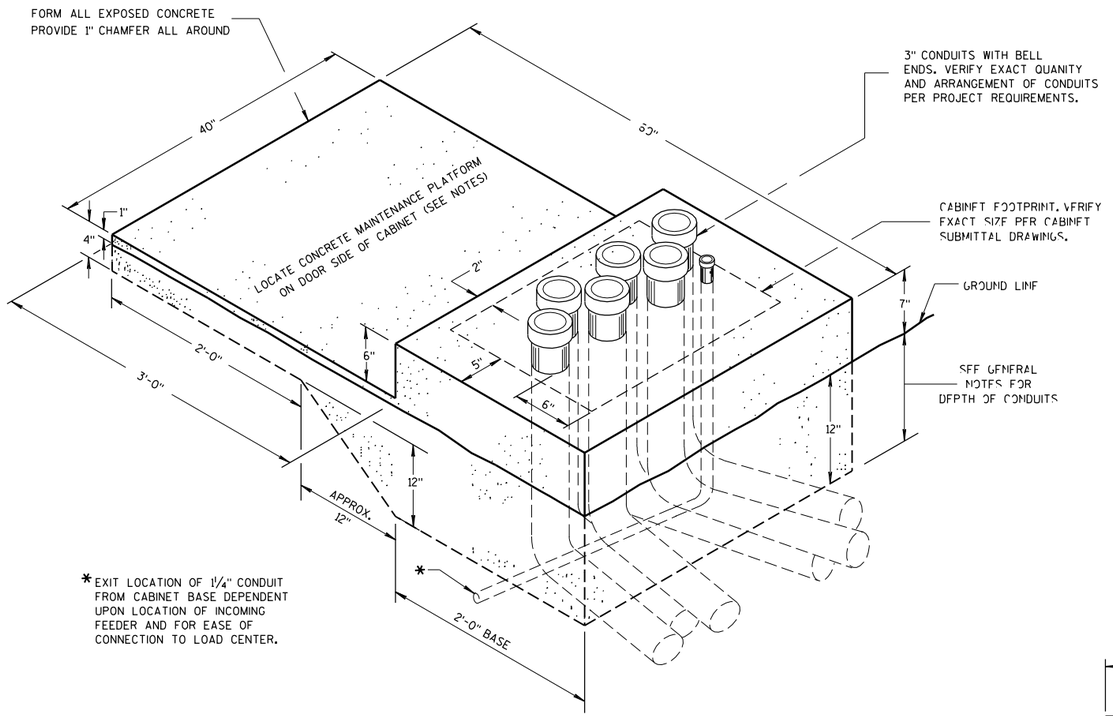
BOX CONSTRUCTION:

- NEMA3R
- UL LISTED
- -1/8" ALUMINUM 5052-H32 ANODIZED CLEAR
- BENT CONSTRUCTION - ONE PIECE SIDES AND BACK
- NEOPRENE GASKETED DOORS
- STAINLESS STEEL HARDWARE
- ETL LISTED IN ACCORDANCE W/ UL508A
- DOOR KEEP TO HOLD DOOR WHILE OPEN

CONTROL CABINET SCHEMATIC

240/480 VOLT LIGHTING CONTROL CABINET POV-WISDOT 240/480 HL-

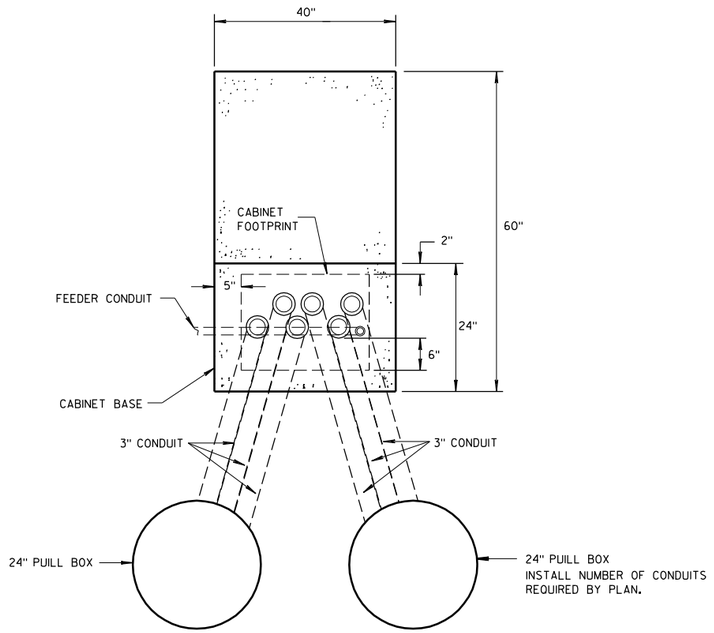
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING DETAIL - CONTROLLER CABINET	SHEET 246	E



ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE SPECIAL

(C.Y. CONCRETE = APPROX. 0.4)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE SPECIAL

NOT TO SCALE

GENERAL NOTES

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
2. INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.
3. WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.
4. CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.
5. DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.
6. DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.
7. ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.
8. CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.
9. MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.
10. MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.
11. MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.
12. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.
13. CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
14. PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.
15. ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.
16. CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.
17. CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.
18. BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

2

N

STUBOUT

CTG6

656

654

652

650

CTH DE

67

66

65

64

62+95.0, 6.60' LT, C.I.M.
LED-B-5-15-ATG6

654+42.74, 1.54' RT, C.I.M.
LED-B-5-15-DTG6

652+94.0, 1.88' RT, C.I.M.
LED-B-5-15-DTG5

652+40.77, 77.44' RT
LED-B-5-15-CTG7

BTG5

CTG5

652+59.81, 87.09' LT
LED-B-5-15-DTG4

58+30.00, 0.65' LT, C.I.M.
LED-B-5-15-CTG2

57+42.06, 41.91' LT
LED-B-5-15-CTG3

56+03.0, 34.09' LT
LED-B-5-15-DTG3

PB103

PB102

PB100

PB101

DTG2

259

60

61

STUBOUT

BTG6

61+21.95, 0.81' LT, C.I.M.
LED-B-5-15-ATG5

651+10.91, 72.12' RT
LED-B-5-15-BTG4

ATG2

52 53 54 55 56 57 58

CTH E

GUY POLE

STUBOUT

NEW CABINET WITH
PHOTOCELL, DOOR
TO OPEN SOUTH

651+07.36, 73.19' LT
LED-B-5-15-ATG1

57+30.00, 30.19' RT
LED-B-5-15-CTG1

650+56.94, 1.20' LT, C.I.M.
LED-B-5-15-BTG2

SQUIRE RD

ATG3

STUBOUT

STH 83

648

648+85.0, 1.16' LT, C.I.M.
LED-B-5-15-BTG3

169
1005.80

HL-67-TG	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

LEGEND

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. — CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX'LT
LED-B-5-15-CTG1
- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- BASE TYPE
- LUMINAIRIE CATEGORY
- LUMINAIRIE SOURCE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN	SHEET 248	E

2

N

STUBOUT

CTG6

654+42.74, 1.54' RT, C.I.M.
LED-B-5-15-DTG6

652+94.0, 1.88' RT, C.I.M.
LED-B-5-15-DTG5

652+40.77, 77.44' RT
LED-B-5-15-CTG7

62+95.0, 6.60' LT, C.I.M.
LED-B-5-15-ATG6

#8 C,D
#8 N,G

#8 A,B
#8 N,G

BTG5

CTG5

652+59.81, 87.09' LT
LED-B-5-15-DTG4

58+30.00, 0.65' LT, C.I.M.
LED-B-5-15-CTG2

57+42.06, 41.91' LT
LED-B-5-15-CTG3

56+03.0, 34.09' LT
LED-B-5-15-DTG3

PB103

#8 C,N,G

STUBOUT

BTG6

61+21.95, 0.81' LT, C.I.M.
LED-B-5-15-ATG5

#8 D,N,G

PB102

#8 A,B
#8 N,G

651+10.91, 72.12' RT
LED-B-5-15-BTG4

DTG2

PB100

PB101

#8 C,N,G

#8 A,B,N
#8 C,D,N
#8 G

NEW CABINET WITH
PHOTOCELL, DOOR
TO OPEN SOUTH

STUBOUT

ATG2

651+07.36, 73.19' LT
LED-B-5-15-ATG1

57+30.00, 30.19' RT
LED-B-5-15-CTG1

650+56.94, 1.20' LT, C.I.M.
LED-B-5-15-BTG2

ATG3

STUBOUT

648+85.0, 1.16' LT, C.I.M.
LED-B-5-15-BTG3

52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67

650 648

CTH E

CTH DE

STH 83

SQUIRE RD

HL-67-TG	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

LEGEND

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. — CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX'LT
LED-B-5-15-CTG1
- CIRCUIT, SOURCE, POLE#
- ARM LENGTH
- BASE TYPE
- LUMINAIRIE CATEGORY
- LUMINAIRIE SOURCE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN - SCHEMATIC	SHEET 249	E

2

N

REMOVE EXISTING POLE AND BASE, SALVAGE POLE, SIGNS AND ASSOCIATED HARDWARE AND DELIVER TO THE VILLAGE OF WALES

1482+06.82, 62.02' LT
LED-B-5M-30-CVW1-4

1481+70, 63.18' LT
FIRE STATION BEACON 2

1473+59.00, 7.00' LT, C.I.M.
LED-B-5M-30-AVW1-6

STUBOUT

STUBOUT

1474+5.80, 67.77' LT
LED-B-5M-30-BVW1-5

1474+84.50, 0.05' LT, C.I.M.
LED-B-5M-30-BVW1-4

1477+00.00, 7.00' RT, C.I.M.
LED-B-5M-30-BVW1-1

1482+99.40, 67.00' LT
LED-B-5M-30-DVW1-4

1487+20.00, 6.96' RT, C.I.M.
LED-B-5M-30-CVW1-8

1485+82.00, 1.19' RT, C.I.M.
LED-B-5M-30-DVW1-6

AVW1-3

1479+01.00, 6.92' RT, C.I.M.
LED-B-5M-30-CVW1-2

DVW1-3

CVW1-5

PB-VW103

PB-VW102

BVW1-6

AVW1-4

PB-FSB1

PB-VW101

DVW1-1

DVW1-2

PB-FSB2

CVW1-6

PB-VW104

STUBOUT

1475+74.00, 1.92' RT, C.I.M.
LED-B-5M-30-BVW1-3

AVW1-1

1478+13.00, 7.00' RT, C.I.M.
LED-B-5M-30-CVW1-1

1482+00.00, 7.00' LT, C.I.M.
LED-B-5M-30-CVW1-3

1483+34.00, 0.26' LT, C.I.M.
LED-B-5M-30-DVW1-5

DVW1-8

1486+31.41, 67.00' RT
LED-B-5M-30-DVW1-7

STUBOUT

1476+83.86, 47.81' RT
LED-B-5M-30-BVW1-2

1475+97.41, 48.92' RT
LED-B-5M-30-AVW1-2

NEW CABINET WITH PHOTOCELL DOOR TO OPEN SOUTH

TERMINATE CONDUIT INTO FIRESTATION BUILDING AT LOCATION DETERMINED BY VILLAGE OF WALES FIRE STATION STAFF, WALL PENETRATION INCIDENTAL TO CONDUIT BID ITEM, RUN WIRES INTO FIRESTATION AND PROVIDE 10 FEET OF ADDITIONAL WIRE FOR VILLAGE STAFF TO MAKE FINAL CONNECTIONS

PROPOSED LIGHTING CONTROLLER

ML-67-VW1	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

1471+00, 46.5' RT
FIRE STATION BEACON 1

REMOVE EXISTING POLE AND BASE, SALVAGE POLE, SIGNS AND ASSOCIATED HARDWARE AND DELIVER TO THE VILLAGE OF WALES

LEGEND - MUNICIPAL

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. — CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX' LT
LED-B-5M-30-AVM1-1
- CIRCUIT, SOURCE, POLE#
- POLE HEIGHT
- BASE TYPE
- LUMINAIRIE CATEGORY
- LUMINAIRIE SOURCE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN	SHEET 250	E

2

N

PORTHAMEL COURT

STH 83

CTH G

1473+59.00, 7.00' LT, C.I.M.
LED-B-5M-30-AVW1-6

STUBOUT

STUBOUT

1474+5.80, 67.77' LT
LED-B-5M-30-BVW1-5

1474+84.50, 0.05' LT, C.I.M.
LED-B-5M-30-BVW1-4

*8 B,N,G

*8 A,B
*8 N,G

AVW1-3

*8 A,B
*8 N,G

1477+00.00, 7.00' RT, C.I.M.
LED-B-5M-30-BVW1-1

*8 A,B
*8 N,G

*8 C,D
*8 N,G

1479+01.00, 6.92' RT, C.I.M.
LED-B-5M-30-CVW1-2

DVW1-1

DVW1-2

*8 C,D
*8 N,G

*8 A,N,G

1482+06.82, 62.02' LT
LED-B-5M-30-CVW1-4

1481+70, 63.18' LT
FIRE STATION BEACON 2

REMOVE EXISTING POLE AND BASE, SALVAGE
POLE, SIGNS AND ASSOCIATED HARDWARE
AND DELIVER TO THE VILLAGE OF WALES

STUBOUT

*8 C,N
*8 G

*8 D,N
*8 G

1482+99.40, 67.00' LT
LED-B-5M-30-DVW1-4

DVW1-3

CVW1-5

1485+82.00, 1.19' RT, C.I.M.
LED-B-5M-30-DVW1-6

1487+20.00, 6.96' RT, C.I.M.
LED-B-5M-30-CVW1-8

*8 C,D
*8 N,G

CVW1-6

*8 C,D
*8 N,G

*8 C,D
*8 N,G

1474 1476 1478 1480 1482 1484 1486 1488

PB-VW102 PB-VW101 PB-VW100 PB-VW103 PB-VW104

BVW1-6

AVW1-4

PB-FSB1 PB-FSB2

1475+74.00, 1.92' RT, C.I.M.
LED-B-5M-30-BVW1-3

*8 A,B
*8 N,G

*8 A,N,G

*8 A,N,G

AVW1-1

*8 A,B
*8 N,G

*8 A,B,N
*8 C,D,N
*8 G

1478+13.00, 7.00' RT, C.I.M.
LED-B-5M-30-CVW1-1

1482+00.00, 7.00' LT, C.I.M.
LED-B-5M-30-CVW1-3

1483+34.00, 0.26' LT, C.I.M.
LED-B-5M-30-DVW1-5

*8 D,N
*8 G

STUBOUT

DVW1-8

CTH G

1486+31.41, 67.00' RT
LED-B-5M-30-DVW1-7

STUBOUT

1476+83.86, 47.81' RT
LED-B-5M-30-BVW1-2

1475+97.41, 48.92' RT
LED-B-5M-30-AVW1-2

NEW CABINET WITH PHOTOCELL
DOOR TO OPEN SOUTH

TERMINATE CONDUIT INTO FIRESTATION BUILDING
AT LOCATION DETERMINED BY VILLAGE OF WALES
FIRE STATION STAFF, WALL PENETRATION INCIDENTAL
TO CONDUIT BID ITEM, RUN WIRES INTO FIRESTATION
AND PROVIDE 10 FEET OF ADDITIONAL WIRE FOR
VILLAGE STAFF TO MAKE FINAL CONNECTIONS

1472

*8 A,N,G

1471+00, 46.5' RT
FIRE STATION BEACON 1

REMOVE EXISTING POLE AND BASE, SALVAGE
POLE, SIGNS AND ASSOCIATED HARDWARE
AND DELIVER TO THE VILLAGE OF WALES

PROPOSED LIGHTING CONTROLLER

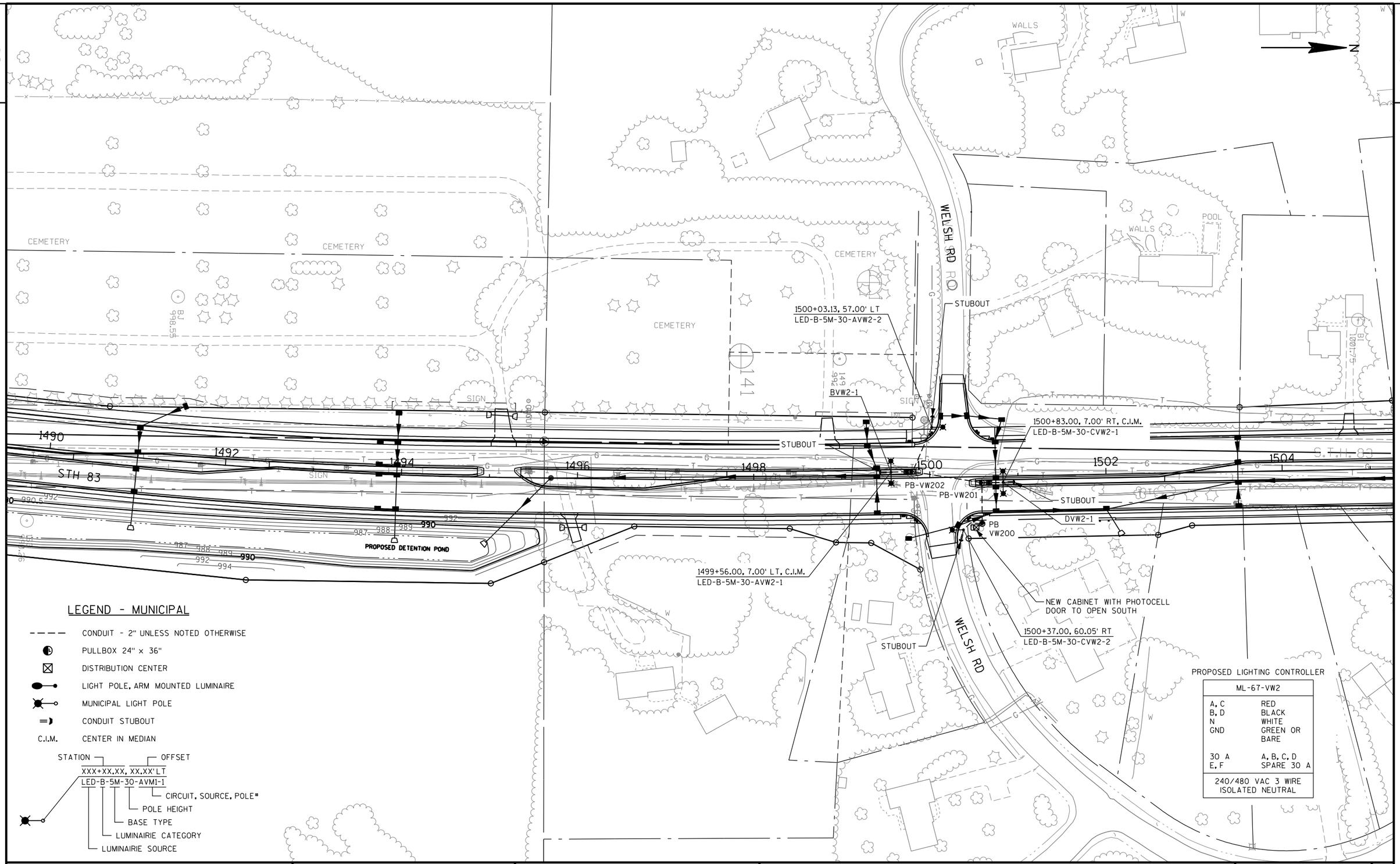
ML-67-VW1	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

LEGEND - MUNICIPAL

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX' LT
LED-B-5M-30-AVM1-1
- CIRCUIT, SOURCE, POLE*
- POLE HEIGHT
- BASE TYPE
- LUMINAIRIE CATEGORY
- LUMINAIRIE SOURCE

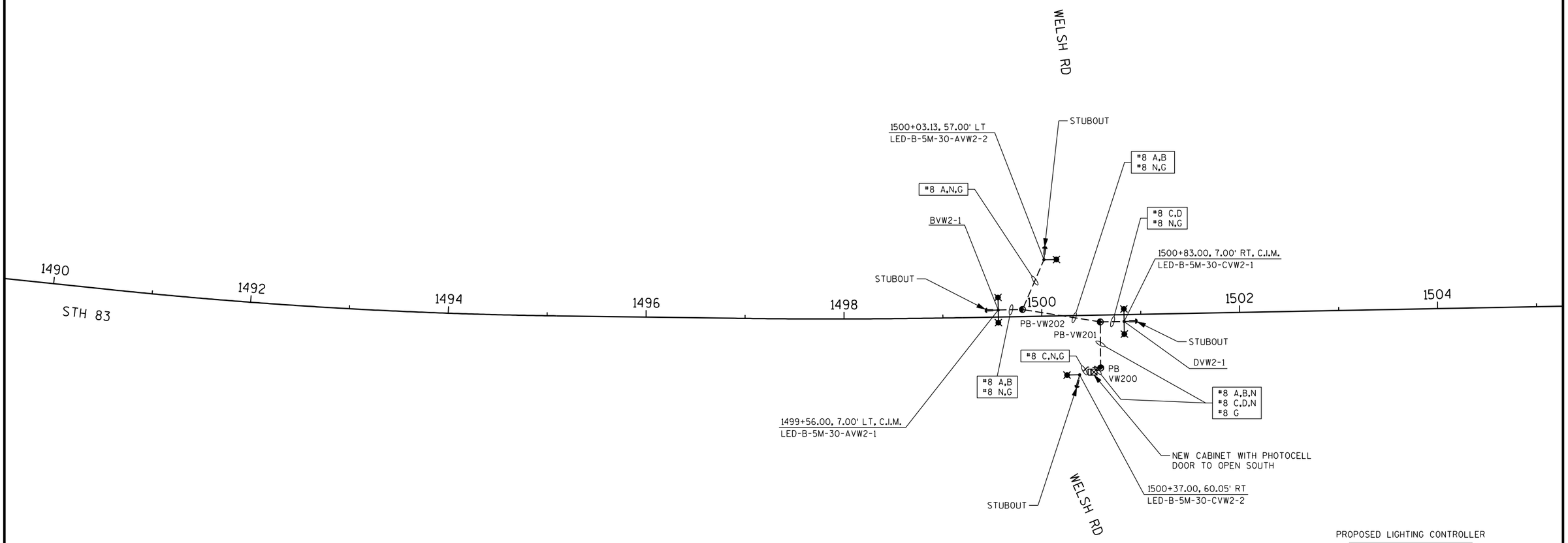
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN - SCHEMATIC	SHEET 251	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN	SHEET 252	E

2

N



PROPOSED LIGHTING CONTROLLER

ML-67-VW2	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN - SCHEMATIC	SHEET 253	E

2

2

N

BENTON CT

STH 83

SOUTH ST.

CRIGLAS RD

MAIN ST

EXISTING PRIVATE DETENTION POND

BLDG

POOL

SEPTIC

SIGN

ANT.

PLAYGROUND

BLEACHERS

1510+52.03, 60.99' LT
LED-B-5M-20-BVW3-4

1510+16.00, 7.00' LT, C.I.M.
LED-B-5M-30-AVW3-5

1511+36.00, 7.00' RT, C.I.M.
LED-B-5M-30-AVW3-3

1515+59.91, 65.00' LT
LED-B-5M-30-AVW3-1

1516+44.00, 7.00' RT, C.I.M.
LED-B-5M-30-CVW3-2

1519+14.00, 7.00' LT, C.I.M.
LED-B-5M-30-DVW3-3

1510+99.21, 58.61' RT
LED-B-5M-30-AVW3-4

1515+29.00, 7.00' LT, C.I.M.
LED-B-5M-30-AVW3-2

1519+44.73, 61.90' RT
LED-B-5M-30-DVW3-4

1520+52.00, 7.00' RT, C.I.M.
LED-B-5M-30-DVW3-5

1520+21.84, 59.08' RT
LED-B-5M-30-CVW3-4

1516+08.78, 64.32' RT
LED-B-5M-30-CVW3-1

STUBOUT

PB-VW304

PB-VW303

PB-VW302

PB-VW301

PB-VW300

PB-VW305

PB-VW306

BVW3-2

BVW3-3

BVW3-5

DVW3-2

CVW3-3

CVW3-5

1508

1510

1512

1514

1516

1518

1520

1522

NEW CABINET WITH PHOTOCELL DOOR TO OPEN SOUTH

LEGEND - MUNICIPAL

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX'LT
LED-B-5M-30-AVM1-1
CIRCUIT, SOURCE, POLE#
POLE HEIGHT
BASE TYPE
LUMINAIRIE CATEGORY
LUMINAIRIE SOURCE

PROPOSED LIGHTING CONTROLLER

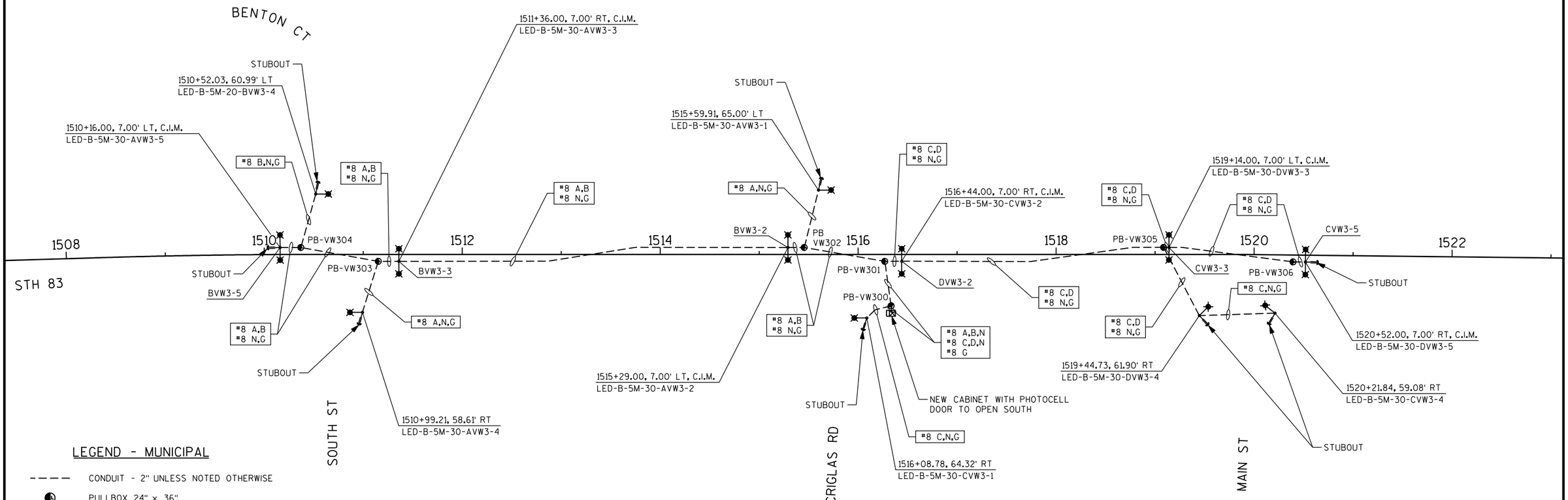
ML-67-VW3	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN	SHEET 254	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_023505_lp.dgn
PLOT DATE : 9/13/2013 7:27:52 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 100.0000 sf / IN.
WISDOT/CADDS SHEET 42

2

N



LEGEND - MUNICIPAL

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. — CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX' LT
LED-B-5M-30-AVM1-1
- CIRCUIT, SOURCE, POLE*
- POLE HEIGHT
- BASE TYPE
- LUMINAIRIE CATEGORY
- LUMINAIRIE SOURCE

PROPOSED LIGHTING CONTROLLER

ML-67-VW3	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN - SCHEMATIC	SHEET 255	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_023505s_lp.dgn
PLOT DATE : 9/13/2013 7:27:56 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) PLOT NAME :
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT SCALE : 100.0000 sf / IN.
WISDOT/CADDS SHEET 42

LEGEND - MUNICIPAL

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. — CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX' LT
LED-B-5M-30-AVM1-1
- CIRCUIT, SOURCE, POLE#
- POLE HEIGHT
- BASE TYPE
- LUMINAIRIE CATEGORY
- LUMINAIRIE SOURCE

N

CYMRIC CT

1527+54.05, 63.00' LT
LED-B-5M-30-AVW4-14

STUBOUT

1528+48.00, 6.00' RT, C.I.M.
LED-B-5M-30-AVW4-13

1531+08.00, 0.00' LT, C.I.M.
LED-B-5M-30-AVW4-11

1533+05.00, 0.00' LT, C.I.M.
LED-B-5M-30-AVW4-9

1536+56.00, 7.00' LT, C.I.M.
LED-B-5M-30-AVW4-7

1537+54.20, 63.00' LT
LED-B-5M-30-AVW4-5

1538+38.67, 63.00' LT
LED-B-5M-30-BVW4-4

1540+98.00, 5.63' LT, C.I.M.
LED-B-5M-30-AVW4-1

1539+20.00, 7.37' RT, C.I.M.
LED-B-5M-30-AVW4-3

BVW4-15
BVW4-12
BVW4-10
BVW4-8
BVW4-6
BVW4-2
BVW4-1
BVW4-13
BVW4-11
BVW4-9
BVW4-7
BVW4-3

PB VW402
PB-VW401
PB-VW400

1528
1530
1532
1534
1536
1538
1540

STH 83

USH 18

1535+69.00, 5.18' LT, C.I.M.
LED-B-5M-30-AVW4-8

1530+17.00, 3.31' RT, C.I.M.
LED-B-5M-30-AVW4-12

1532+22.00, 0.00' LT, C.I.M.
LED-B-5M-30-AVW4-10

1540+09.00, 3.60' RT, C.I.M.
LED-B-5M-30-AVW4-2

1537+94.82, 51.50' RT
LED-B-5M-30-AVW4-4

1527+28.00, 7.00' LT, C.I.M.
LED-B-5M-30-AVW4-15

1537+40.00, 7.00' LT, C.I.M.
LED-B-5M-30-AVW4-6

NEW CABINET WITH PHOTOCELL
DOOR TO OPEN SOUTH

SEE FOLLOWING SHEETS FOR
LIGHT POLES ON C/D CIRCUIT

FILLER CAPS

SUBSTATION

GLACIAL DRUMLIN STATE TRAIL

PROPOSED LIGHTING CONTROLLER

ML-67-VW4	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN	SHEET 256	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_023506_lp.dgn
PLOT DATE : 9/13/2013 7:28:02 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 100.0000 sf / IN.
WISDOT/CADDS SHEET 42

2

N

LEGEND - MUNICIPAL

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX' LT
LED-B-5M-30-AVM1-1
CIRCUIT, SOURCE, POLE#
POLE HEIGHT
BASE TYPE
LUMINAIRIE CATEGORY
LUMINAIRIE SOURCE

1527+54.05, 63.00' LT
LED-B-5M-30-AVW4-14

STUBOUT

CYMRIC CT

#4 A,N
#8 G

1528+48.00, 6.00' RT, C.I.M.
LED-B-5M-30-AVW4-13

BVW4-15

STUBOUT

PB VW402

1528

BVW4-13

#4 A,B,N
#8 G

1530

BVW4-12

JB-VW401

#4 A,B,N
#8 G

1531+08.00, 0.00' LT, C.I.M.
LED-B-5M-30-AVW4-11

1532

JB-VW400

BVW4-10

BVW4-11

#4 A,B,N
#8 G

1533+05.00, 0.00' LT, C.I.M.
LED-B-5M-30-AVW4-9

1534

BVW4-9

#4 A,B,N
#8 G

1535+69.00, 5.18' LT, C.I.M.
LED-B-5M-30-AVW4-8

BVW4-8

1536

#4 A,B,N
#8 G

BVW4-7

1536+56.00, 7.00' LT, C.I.M.
LED-B-5M-30-AVW4-7

1537+54.20, 63.00' LT
LED-B-5M-30-AVW4-5

1538+38.67, 63.00' LT
LED-B-5M-30-BVW4-4

#4 A,N
#8 G

#4 A,B,N
#8 G

1538

BVW4-6

#4 A,B,N
#8 G

1537+40.00, 7.00' LT, C.I.M.
LED-B-5M-30-AVW4-6

1537+94.82, 51.50' RT
LED-B-5M-30-AVW4-4

1540

1540+98.00, 5.63' LT, C.I.M.
LED-B-5M-30-AVW4-1

1539+20.00, 7.37' RT, C.I.M.
LED-B-5M-30-AVW4-3

BVW4-2

BVW4-3

PB-VW401

#4 A,N
#8 G

#4 A,B,N
#8 G

1540+09.00, 3.60' RT, C.I.M.
LED-B-5M-30-AVW4-2

BVW4-1

PB-VW400

#4 A,B,N
#4 C,D,N
#8 G

NEW CABINET WITH PHOTOCELL
DOOR TO OPEN SOUTH

SEE FOLLOWING SHEETS FOR
LIGHT POLES ON C/D CIRCUIT

1542+08

75

USH 18

76

77

78

79

STH 83

GLACIAL DRUMLIN STATE TRAIL

1527+28.00, 7.00' LT, C.I.M.
LED-B-5M-30-AVW4-15

1530+17.00, 3.31' RT, C.I.M.
LED-B-5M-30-AVW4-12

1532+22.00, 0.00' LT, C.I.M.
LED-B-5M-30-AVW4-10

PROPOSED LIGHTING CONTROLLER

ML-67-VW4	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN - SCHEMATIC	SHEET 257	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_023506s_lp.dgn
PLOT DATE : 9/13/2013 7:28:07 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 100.0000 sf / IN.
WISDOT/CADDS SHEET 42

LEGEND - MUNICIPAL

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. — CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX' LT
LED-B-5M-30-AVM1-1
- CIRCUIT, SOURCE, POLE#
- POLE HEIGHT
- BASE TYPE
- LUMINAIRIE CATEGORY
- LUMINAIRIE SOURCE

EXISTING LIGHTING CONTROLLER TO BE SALVAGED

HL-67-SU	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

REMOVE CONTROLLER BASE AND PULLBOX SALVAGE CONTROLLER CABINET AND REINSTALL AT NEW LOCATION

ATTACH NEW CONDUIT TO EXISTING WITH COUPLING

EXISTING SERVICE FROM TRANSFORMER

INSTALL SLAVAGED CABINET WITH PHOTOCELL DOOR TO OPEN NORTH

REMOVE PULLBOX

77+21.00, 0.02' LT, C.I.M.
LED-B-5M-30-CSU-4

78+91.20, 3.05' LT, C.I.M.
LED-B-5M-30-CSU-2

1543+28.01, 0.84' RT, C.I.M.
LED-B-5M-30-BSU-2

1542+92.77, 72.36' LT
LED-B-5M-30-ASU-1

1545+63.31, 0.80' RT, C.I.M.
LED-B-5M-30-BSU-4

STUBOUT
1547+00.33, 0.50' RT, C.I.M.
LED-B-5M-30-BSU-5

1544+07.00, 2.46' LT, C.I.M.
LED-B-5M-30-BSU-3

1542+94.61, 74.50' RT
LED-B-5M-30-DVW4-1

82+05.00, 0.21' LT, C.I.M.
LED-B-5M-30-DVW4-3

83+68.30, 46.00' LT
LED-B-5M-30-CVW4-4

84+95.00, 46.00' LT
LED-B-5M-30-DVW4-4

86+27.00, 41.29' LT
LED-B-5M-30-CVW4-5

REMOVE EXISTING AND REPLACE WITH DECORATIVE LED-B-5M-30-CSU-9

REMOVE EXISTING AND REPLACE WITH DECORATIVE LED-B-5M-30-DSU-10

REMOVE EXISTING AND REPLACE WITH DECORATIVE LED-B-5M-30-DSU-8

REMOVE EXISTING AND REPLACE WITH DECORATIVE LED-B-5M-30-DSU-7

REMOVE EXISTING AND REPLACE WITH DECORATIVE LED-B-5M-30-CSU-8

75+18.10, 6.24' RT, C.I.M.
LED-B-5M-30-DSU-6

76+17.00, 0.12' LT, C.I.M.
LED-B-5M-30-CSU-5

78+18.00, 2.87' LT, C.I.M.
LED-B-5M-30-CSU-3

81+32.63, 2.59' RT, C.I.M.
LED-B-5M-30-DVW4-2

1541+30.83, 76.70' RT
LED-B-5M-30-CVW4-1

1541+39.38, 79.63' LT
LED-B-5M-30-CSU-1

REMOVE BASE, SALVAGE LIGHT POLE, ARM AND LUMINAIRIE, DISPOSE OF LAMP

NEW CABINET WITH PHOTOCELL DOOR TO OPEN SOUTH

SEE PREVIOUS SHEETS FOR LIGHT POLES ON A/B CIRCUIT

PROPOSED LIGHTING CONTROLLER

ML-67-VW4	
A, C, E	RED
B, D, F	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D E, F
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PB-SU400 PB-SU401 PB-SU402 PB-SU403 PB-SU404 (EXISTING) PB-SU405 (EXISTING) PB-SU406 (EXISTING) PB-VW400 PB-VW403

ASU-2 ASU-3 ASU-4 ASU-5

DSU-2 DSU-3 DSU-4 DSU-5 DSU-9

CSU-6 CSU-7

CVW4-2 CVW4-3

STH 83 USH 18

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN	SHEET 258	E

LEGEND - MUNICIPAL

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. — CENTER IN MEDIAN

STATION — XXX+XX.XX, OFFSET XX.XX' LT

LED-B-5M-30-AVM1-1
- CIRCUIT, SOURCE, POLE#
- POLE HEIGHT
- BASE TYPE
- LUMINAIRIE CATEGORY
- LUMINAIRIE SOURCE

EXISTING LIGHTING CONTROLLER TO BE SALVAGED

HL-67-SU	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

PROPOSED LIGHTING CONTROLLER

ML-67-VW4	
A, C	RED
B, D	BLACK
N	WHITE
GND	GREEN OR BARE
30 A	A, B, C, D
E, F	SPARE 30 A
240/480 VAC 3 WIRE ISOLATED NEUTRAL	

N

STH 83

1546 1545 1544 1543 1542 1541 1540 1538

ASU-5 ASU-4 ASU-3 ASU-2

STUBOUT

1547+00.33, 0.50' RT, C.I.M.
LED-B-5M-30-BSU-5

1545+63.31, 0.80' RT, C.I.M.
LED-B-5M-30-BSU-4

1544+07.00, 2.46' LT, C.I.M.
LED-B-5M-30-BSU-3

1543+28.01, 0.84' RT, C.I.M.
LED-B-5M-30-BSU-2

1542+92.77, 72.36' LT
LED-B-5M-30-ASU-1

*8 A,B
*8 N,G

*8 A,B,N
*8 C,D,N
*8 G

EXISTING SERVICE FROM TRANSFORMER

INSTALL SLAVAGED CABINET WITH PHOTOCELL DOOR TO OPEN NORTH

REMOVE PULLBOX

REMOVE CONTROLLER BASE AND PULLBOX SALVAGE CONTROLLER CABINET AND REINSTALL AT NEW LOCATION

ATTACH NEW CONDUIT TO EXISTING WITH COUPLING

*8 C,D
*8 N,G
IN EXISTING CONDUIT

*8 D,N
*8 G
IN EXISTING CONDUIT

REMOVE EXISTING AND REPLACE WITH DECORATIVE LED-B-5M-30-CSU-9

REMOVE EXISTING AND REPLACE WITH DECORATIVE LED-B-5M-30-DSU-10

REMOVE EXISTING AND REPLACE WITH DECORATIVE LED-B-5M-30-DSU-8

REMOVE EXISTING AND REPLACE WITH DECORATIVE LED-B-5M-30-DSU-7

REMOVE EXISTING AND REPLACE WITH DECORATIVE LED-B-5M-30-CSU-8

PB-SU406 (EXISTING)
PB-SU404 (EXISTING)
PB SU405 (EXISTING)
PB-SU403
PB-SU402
PB-SU401
PB-SU400
PB-VW403
PB-VW400

DSU-9 DSU-5 DSU-6 DSU-4 DSU-3 DSU-2

CSU-7 CSU-6

CVW4-2 CVW4-3

77+21.00, 0.02' LT, C.I.M.
LED-B-5M-30-CSU-4

78+91.20, 3.05' LT, C.I.M.
LED-B-5M-30-CSU-2

78+18.00, 2.87' LT, C.I.M.
LED-B-5M-30-CSU-3

75+18.10, 6.24' RT, C.I.M.
LED-B-5M-30-DSU-6

76+17.00, 0.12' LT, C.I.M.
LED-B-5M-30-CSU-5

1541+39.38, 79.63' LT
LED-B-5M-30-CSU-1

1542+94.61, 74.50' RT
LED-B-5M-30-DVW4-1

82+05.00, 0.21' LT, C.I.M.
LED-B-5M-30-DVW4-3

83+68.30, 46.00' LT
LED-B-5M-30-CVW4-4

84+95.00, 46.00' LT
LED-B-5M-30-DVW4-4

86+27.00, 41.29' LT
LED-B-5M-30-CVW4-5

81+32.63, 2.59' RT, C.I.M.
LED-B-5M-30-DVW4-2

1541+30.83, 76.70' RT
LED-B-5M-30-CVW4-1

*4 C,D,N
*8 G

*4 D,N
*8 G

*4 A,B,N
*4 C,D,N
*8 G

NEW CABINET WITH PHOTOCELL DOOR TO OPEN SOUTH

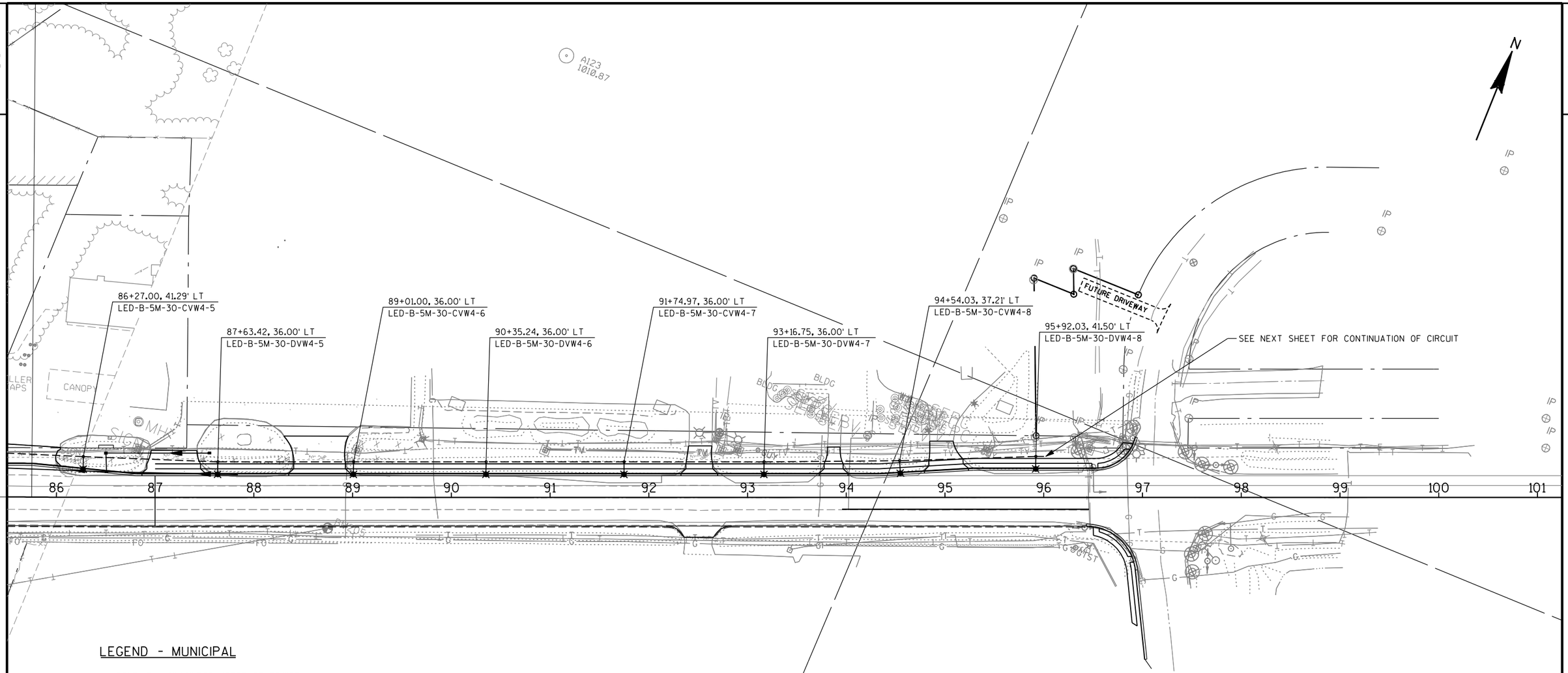
SEE PREVIOUS SHEETS FOR LIGHT POLES ON A/B CIRCUIT

71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86

USH 18

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN - SCHEMATIC	SHEET 259	E

2



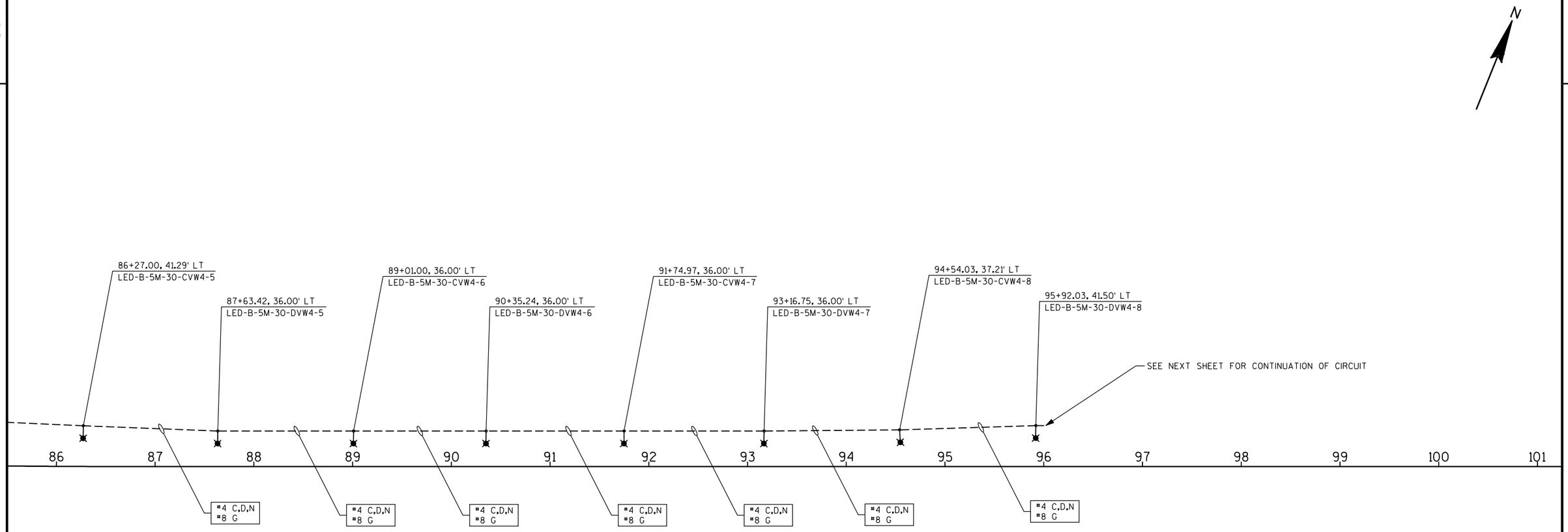
LEGEND - MUNICIPAL

- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. — CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX'LT
LED-B-5M-30-AVM1-1
- CIRCUIT, SOURCE, POLE#
- POLE HEIGHT
- BASE TYPE
- LUMINAIRIE CATEGORY
- LUMINAIRIE SOURCE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN	SHEET 260	E

2



LEGEND - MUNICIPAL

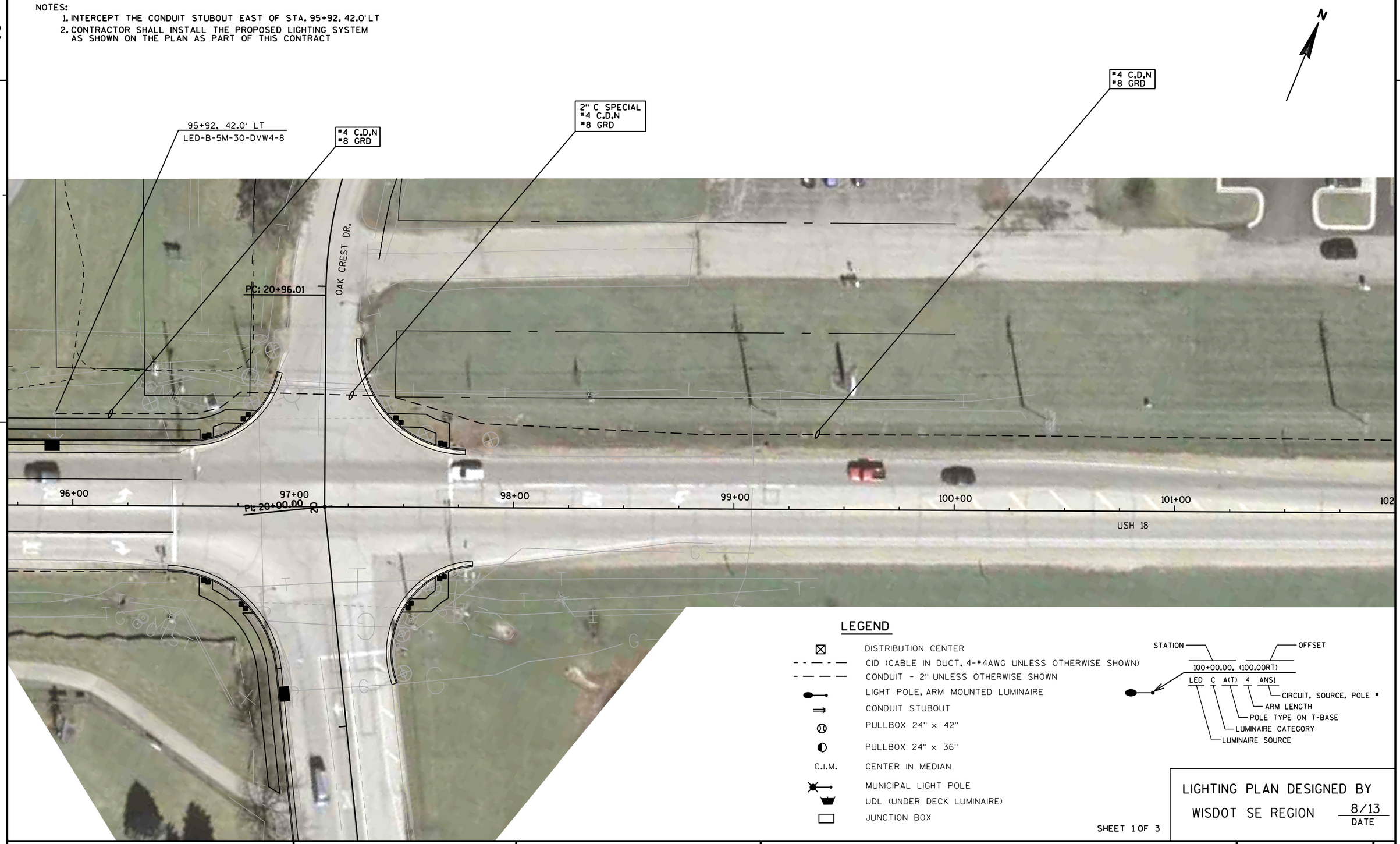
- CONDUIT - 2" UNLESS NOTED OTHERWISE
- PULLBOX 24" x 36"
- DISTRIBUTION CENTER
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- MUNICIPAL LIGHT POLE
- CONDUIT STUBOUT
- C.I.M. CENTER IN MEDIAN

STATION — OFFSET
XXX+XX.XX, XX.XX' LT
LED-B-5M-30-AVM1-1
- CIRCUIT, SOURCE, POLE#
- POLE HEIGHT
- BASE TYPE
- LUMINAIRIE CATEGORY
- LUMINAIRIE SOURCE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN - SCHEMATIC	SHEET 261	E

NOTES:

1. INTERCEPT THE CONDUIT STUBOUT EAST OF STA. 95+92, 42.0' LT
2. CONTRACTOR SHALL INSTALL THE PROPOSED LIGHTING SYSTEM AS SHOWN ON THE PLAN AS PART OF THIS CONTRACT



LEGEND

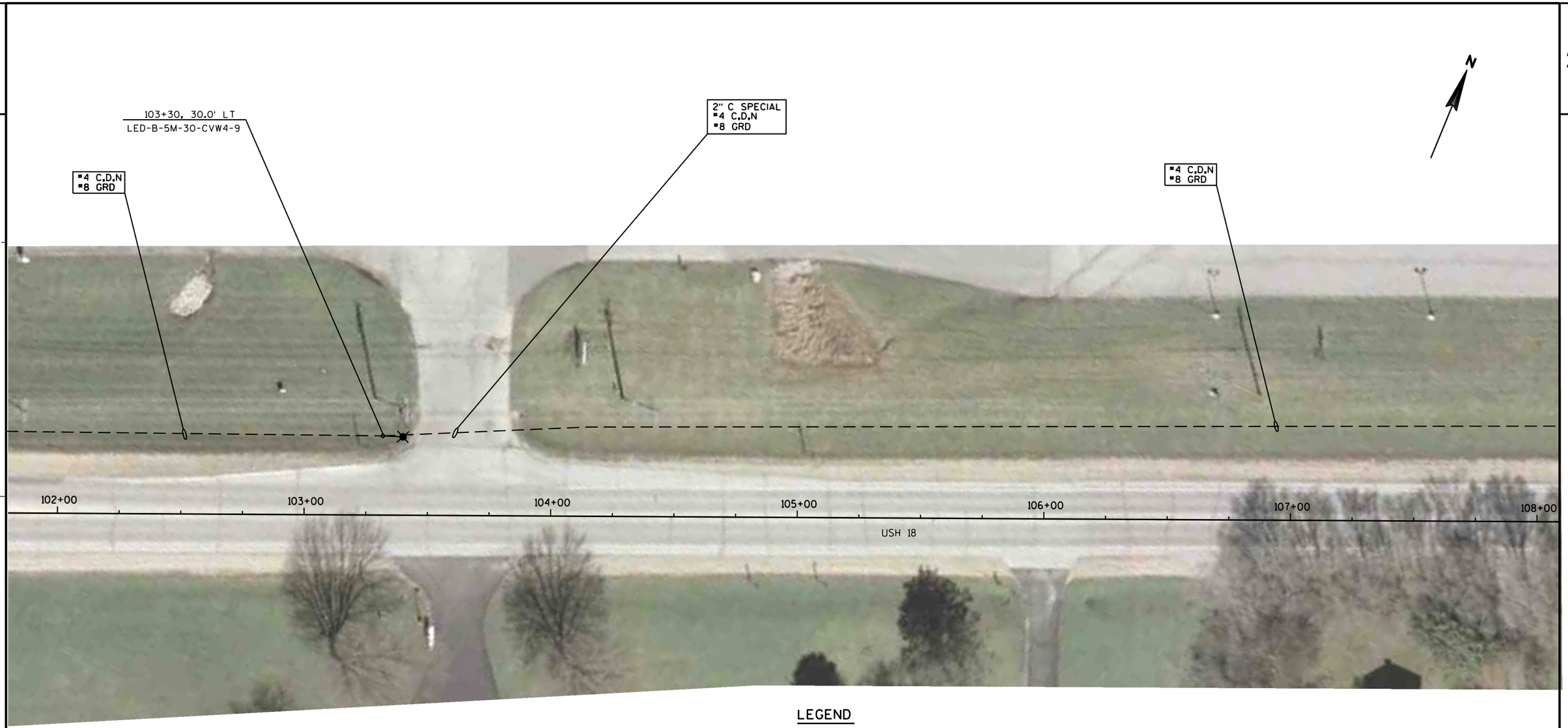
- DISTRIBUTION CENTER
- CID (CABLE IN DUCT, 4-#4AWG UNLESS OTHERWISE SHOWN)
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 42"
- PULLBOX 24" x 36"
- C.I.M. CENTER IN MEDIAN
- MUNICIPAL LIGHT POLE
- UDL (UNDER DECK LUMINAIRE)
- JUNCTION BOX

SHEET 1 OF 3

LIGHTING PLAN DESIGNED BY
WISDOT SE REGION 8/13 DATE

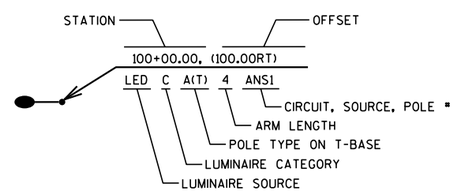
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN - USH 18	SHEET 262 E

2



LEGEND

- DISTRIBUTION CENTER
- CID (CABLE IN DUCT, 4-#4AWG UNLESS OTHERWISE SHOWN)
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 42"
- PULLBOX 24" x 36"
- C.I.M. — CENTER IN MEDIAN
- MUNICIPAL LIGHT POLE
- UDL (UNDER DECK LUMINAIRE)
- JUNCTION BOX



SHEET 2 OF 3

LIGHTING PLAN DESIGNED BY
WISDOT SE REGION 8/13 DATE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN - USH 18	SHEET 263	E

2

2

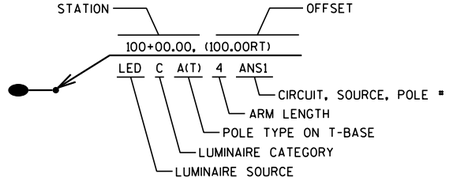
N

▪4 C.D.N
▪8 GRD

110+40, 50.0' LT
LED-B-5M-30-DVW4-9

LEGEND

- DISTRIBUTION CENTER
- CID (CABLE IN DUCT, 4-#4AWG UNLESS OTHERWISE SHOWN)
- CONDUIT - 2" UNLESS OTHERWISE SHOWN
- LIGHT POLE, ARM MOUNTED LUMINAIRE
- CONDUIT STUBOUT
- PULLBOX 24" x 42"
- PULLBOX 24" x 36"
- C.I.M. — CENTER IN MEDIAN
- MUNICIPAL LIGHT POLE
- UDL (UNDER DECK LUMINAIRE)
- JUNCTION BOX



LIGHTING PLAN DESIGNED BY
WISDOT SE REGION 8/13 DATE

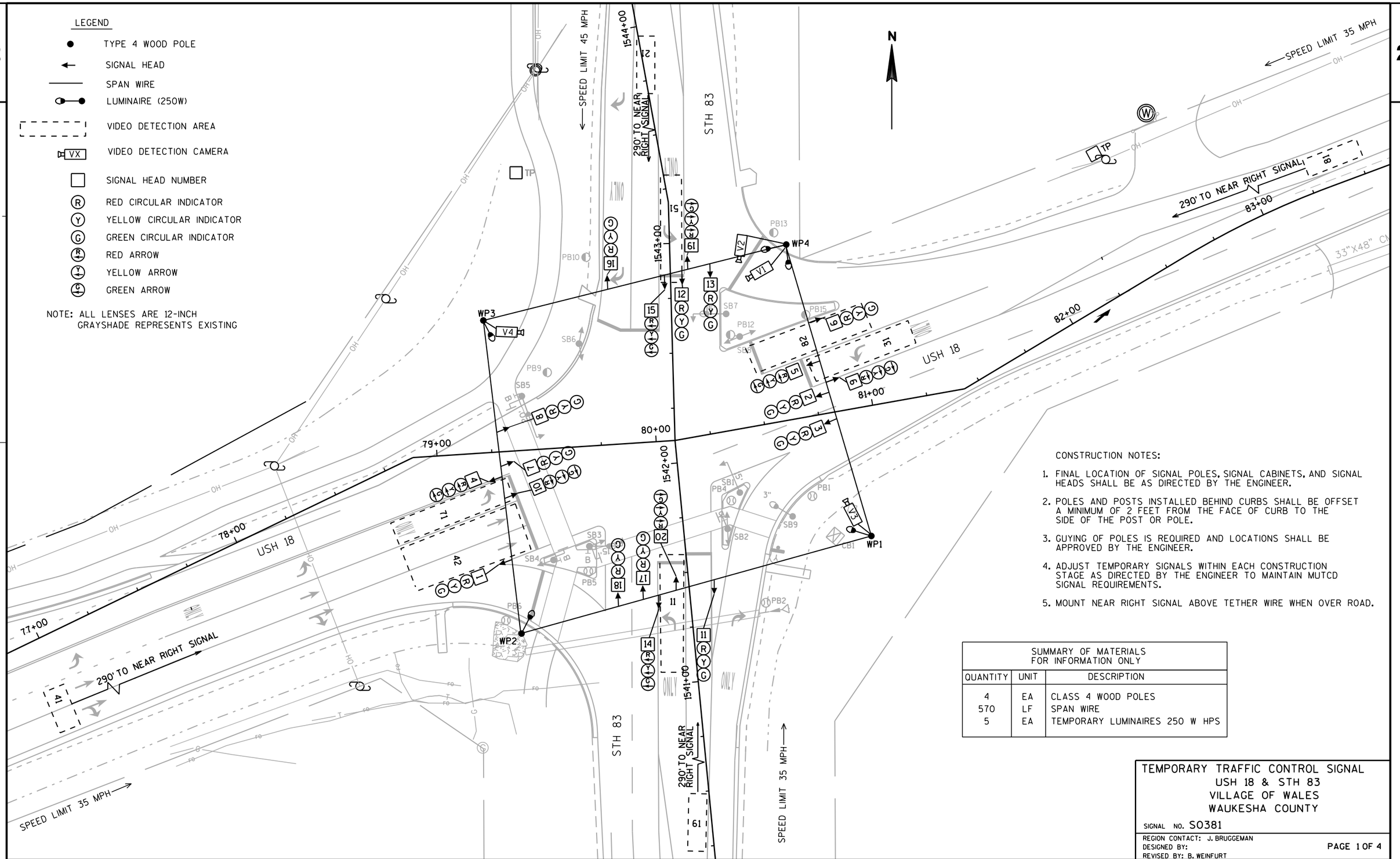
SHEET 3 OF 3

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	LIGHTING PLAN - USH 18	SHEET 264	E

LEGEND

- TYPE 4 WOOD POLE
- SIGNAL HEAD
- SPAN WIRE
- LUMINAIRE (250W)
- VIDEO DETECTION AREA
- VX — VIDEO DETECTION CAMERA
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINETS, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.

SUMMARY OF MATERIALS
FOR INFORMATION ONLY

QUANTITY	UNIT	DESCRIPTION
4	EA	CLASS 4 WOOD POLES
570	LF	SPAN WIRE
5	EA	TEMPORARY LUMINAIRES 250 W HPS

TEMPORARY TRAFFIC CONTROL SIGNAL
USH 18 & STH 83
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0381

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

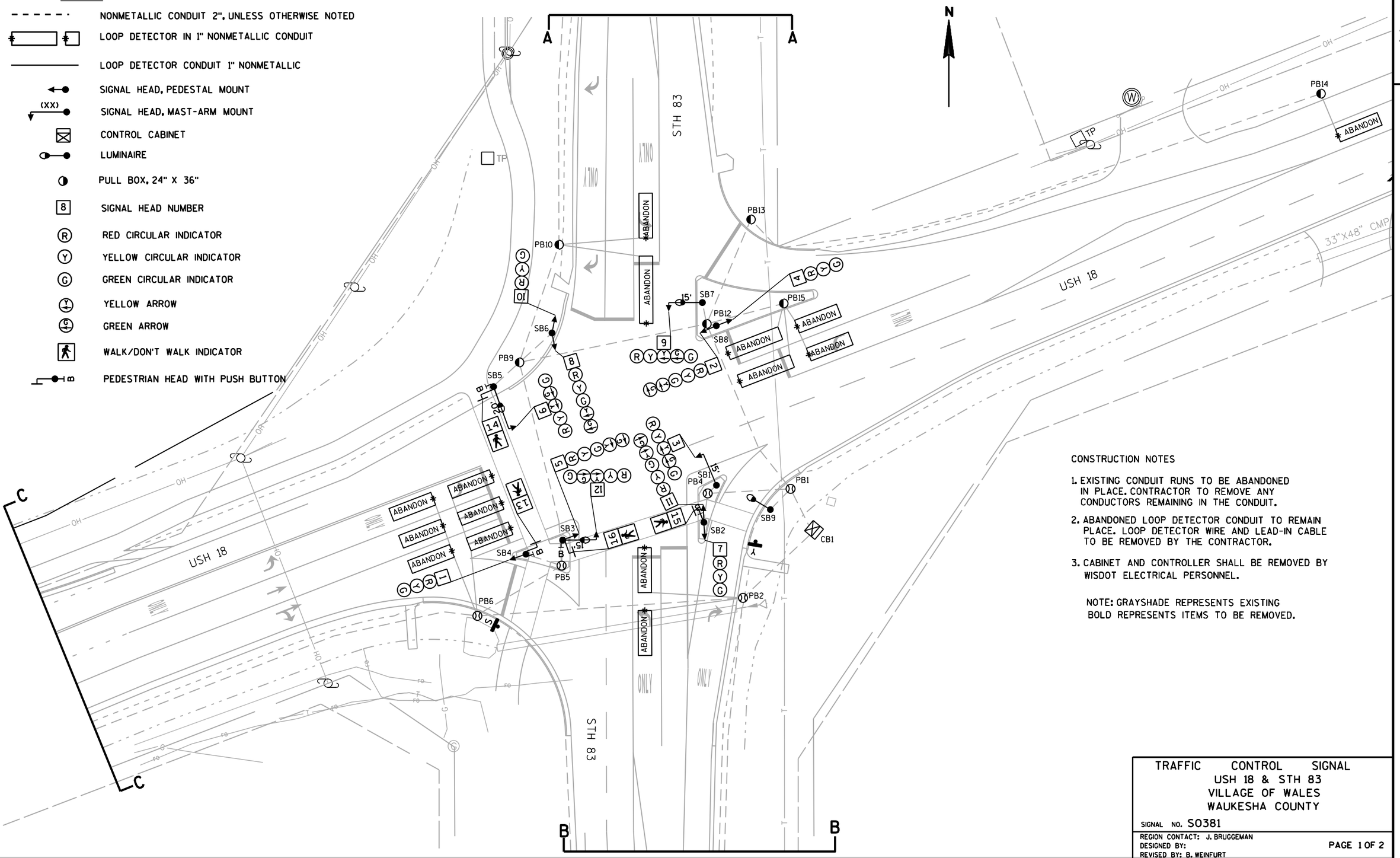
PAGE 1 OF 4

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN- PRE CONSTRUCTION	SHEET 265	E

FILE NAME : J:\projects\d2_13301883\signals\s0381_Pretemp1.DGN PLOT DATE : 02-AUG-2013 08:36 PLOT BY : dotbgw PLOT NAME : PLOT SCALE : 40:1

LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- CONTROL CABINET
- LUMINAIRE
- PULL BOX, 24" X 36"
- 8 SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR
- B PEDESTRIAN HEAD WITH PUSH BUTTON



CONSTRUCTION NOTES

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.

NOTE: GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
USH 18 & STH 83
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0381

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

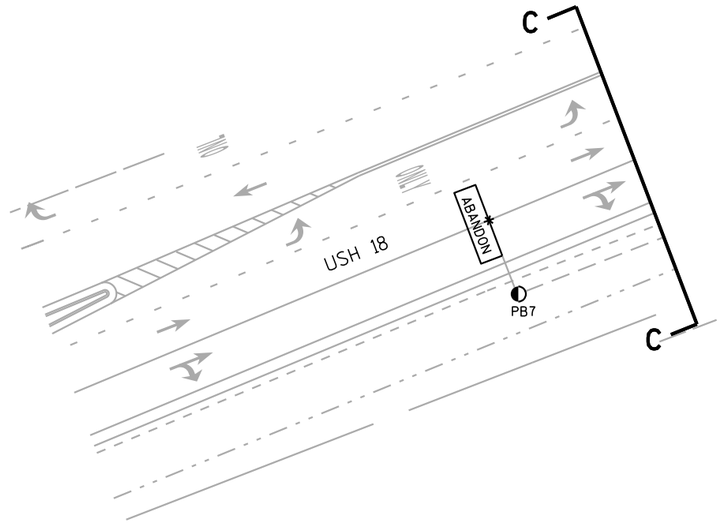
PAGE 1 OF 2

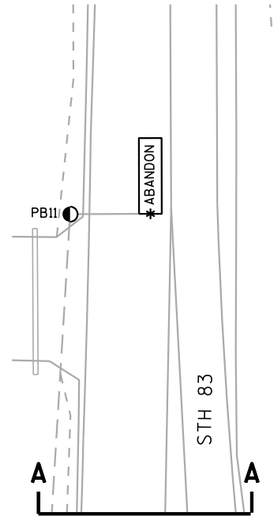
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 266	E

FILE NAME : J:\projects\d2_13301883\signals\s0381_REM.DGN PLOT DATE : 02-AUG-2013 08:36 PLOT BY : dotbgw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2





TRAFFIC CONTROL SIGNAL
USH 18 & STH 83
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0381

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 2 OF 2

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 267	E

LEGEND

- TYPE 4 WOOD POLE
- SIGNAL HEAD
- SPAN WIRE
- LUMINAIRE (250W)
- VIDEO DETECTION AREA
- VX — VIDEO DETECTION CAMERA
- SIGNAL HEAD NUMBER
- (R) — RED CIRCULAR INDICATOR
- (Y) — YELLOW CIRCULAR INDICATOR
- (G) — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- Y — YELLOW ARROW
- G — GREEN ARROW
- WORK AREA
- DIRECTION OF TRAFFIC

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

USH 18

SPEED LIMIT 45 MPH

SPEED LIMIT 35 MPH

290' TO NEAR RIGHT SIGNAL

ONLY

WP1 WP2 WP3 WP4

V1 V2 V3 V4

TP

OH

FO

33"X48" CM

77+00 78+00 79+00 80+00 81+00 82+00 83+00

1541+00 1542+00 1543+00 1544+00

TEMPORARY TRAFFIC CONTROL SIGNAL
USH 18 & STH 83
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0381

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 2 OF 4

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN- STAGE 1	SHEET 268	E

FILE NAME : J:\projects\d2_13301883\signals\s0381_STAGE_1.DGN PLOT DATE : 02-AUG-2013 08:36 PLOT BY : dotbgw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

LEGEND

- TYPE 4 WOOD POLE
- SIGNAL HEAD
- SPAN WIRE
- LUMINAIRE (250W)
- VIDEO DETECTION AREA
- VX — VIDEO DETECTION CAMERA
- SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- Y — YELLOW ARROW
- G — GREEN ARROW
- WORK AREA
- DIRECTION OF TRAFFIC

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

N

USH 18

SPEED LIMIT 45 MPH

290' TO NEAR RIGHT SIGNAL

SPEED LIMIT 35 MPH

WP1 WP2 WP3 WP4

V1 V2 V3 V4

77+00 78+00 79+00 80+00 81+00 82+00 85+00

1542+00 1543+00 1544+00

TEMPORARY TRAFFIC CONTROL SIGNAL
USH 18 & STH 83
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0381

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 3 OF 4

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN- STAGE 2	SHEET 269	E

FILE NAME : J:\projects\d2_13301883\signals\s0381_STAGE_2.DGN PLOT DATE : 02-AUG-2013 08:36 PLOT BY : dotbgw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **						Ø2 R/W	Ø2 CLEAR TO **						Ø3 R/W	Ø3 CLEAR TO **						Ø4 R/W	Ø4 CLEAR TO **						FLASH
Ø1	14,15	G	Y	R					R	R	R					R	R	R					R	R						R
Ø2	16,17,18	R	R	R					G	Y	R					R	R	R					R	R						R
Ø3	9,10	R	R	R					R	R	R					G	Y	R					R	R						R
Ø4	1,2,3	R	R	R					R	R	R					R	R	R					G	Y						R
Ø5	19,20	R	R	R					R	R	R					R	R	R					R	R						R
Ø6	11,12,13	R	R	R					R	R	R					R	R	R					R	R						R
Ø7	4,5	R	R	R					R	R	R					R	R	R					R	R						R
Ø8	6,7,8	R	R	R					R	R	R					R	R	R					R	R						R
Ø2P																														
Ø4P																														
Ø6P																														
Ø8P																														

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **						Ø6 R/W	Ø6 CLEAR TO **						Ø7 R/W	Ø7 CLEAR TO **						Ø8 R/W	Ø8 CLEAR TO **					
Ø1	14,15	R	R	R					R	R	R					R	R	R					R	R					
Ø2	16,17,18	R	R	R					R	R	R					R	R	R					R	R					
Ø3	9,10	R	R	R					R	R	R					R	R	R					R	R					
Ø4	1,2,3	R	R	R					R	R	R					R	R	R					R	R					
Ø5	19,20	G	Y	R					R	R	R					R	R	R					R	R					
Ø6	11,12,13	R	R	R					G	Y	R					R	R	R					R	R					
Ø7	4,5	R	R	R					R	R	R					G	Y	R					R	R					
Ø8	6,7,8	R	R	R					R	R	R					R	R	R					G	Y	R				
Ø2P																													
Ø4P																													
Ø6P																													
Ø8P																													

BARRIER

N

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,3,4,7,8
2	5 OR 6	1,3,4,7,8
3	7 OR 8	1,2,4,5,6
4	7 OR 8	1,2,3,5,6
5	1 OR 2	3,4,6,7,8
6	1 OR 2	3,4,5,7,8
7	3 OR 4	1,2,5,6,8
8	3 OR 4	1,2,5,6,7

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11		X			1	1					VIDEO
21		X			2	2					VIDEO
31		X			3	3					VIDEO
41				X		4			X		VIDEO
42		X			4	4					VIDEO
51		X			5	5					VIDEO
61		X			6	6					VIDEO
71		X			7	7					VIDEO
81				X		8			X		VIDEO
82		X			8	8					VIDEO

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN.	X
7		4		X
8		4		X

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM *:	SS- -

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

GENERAL NOTES:

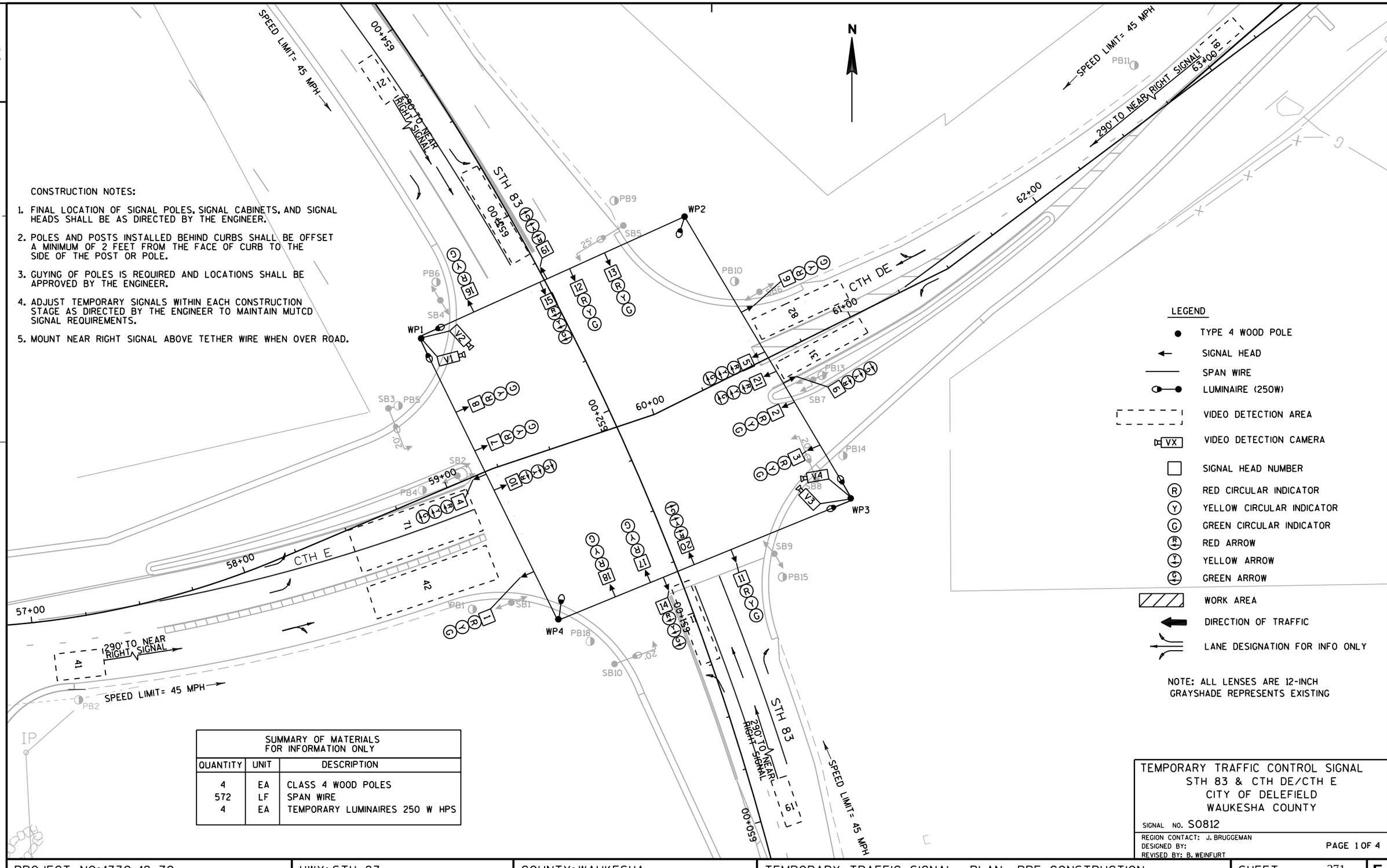
1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

USH 18 & STH 83
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0381
CONTROLLER TYPE: TEMP
DATE 3-12 PAGE NO. 4 OF 4

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINETS, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.



NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

SUMMARY OF MATERIALS FOR INFORMATION ONLY		
QUANTITY	UNIT	DESCRIPTION
4	EA	CLASS 4 WOOD POLES
572	LF	SPAN WIRE
4	EA	TEMPORARY LUMINAIRES 250 W HPS

TEMPORARY TRAFFIC CONTROL SIGNAL
STH 83 & CTH DE/CTH E
CITY OF DELEFIELD
WAUKESHA COUNTY

SIGNAL NO. S0812

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 1 OF 4

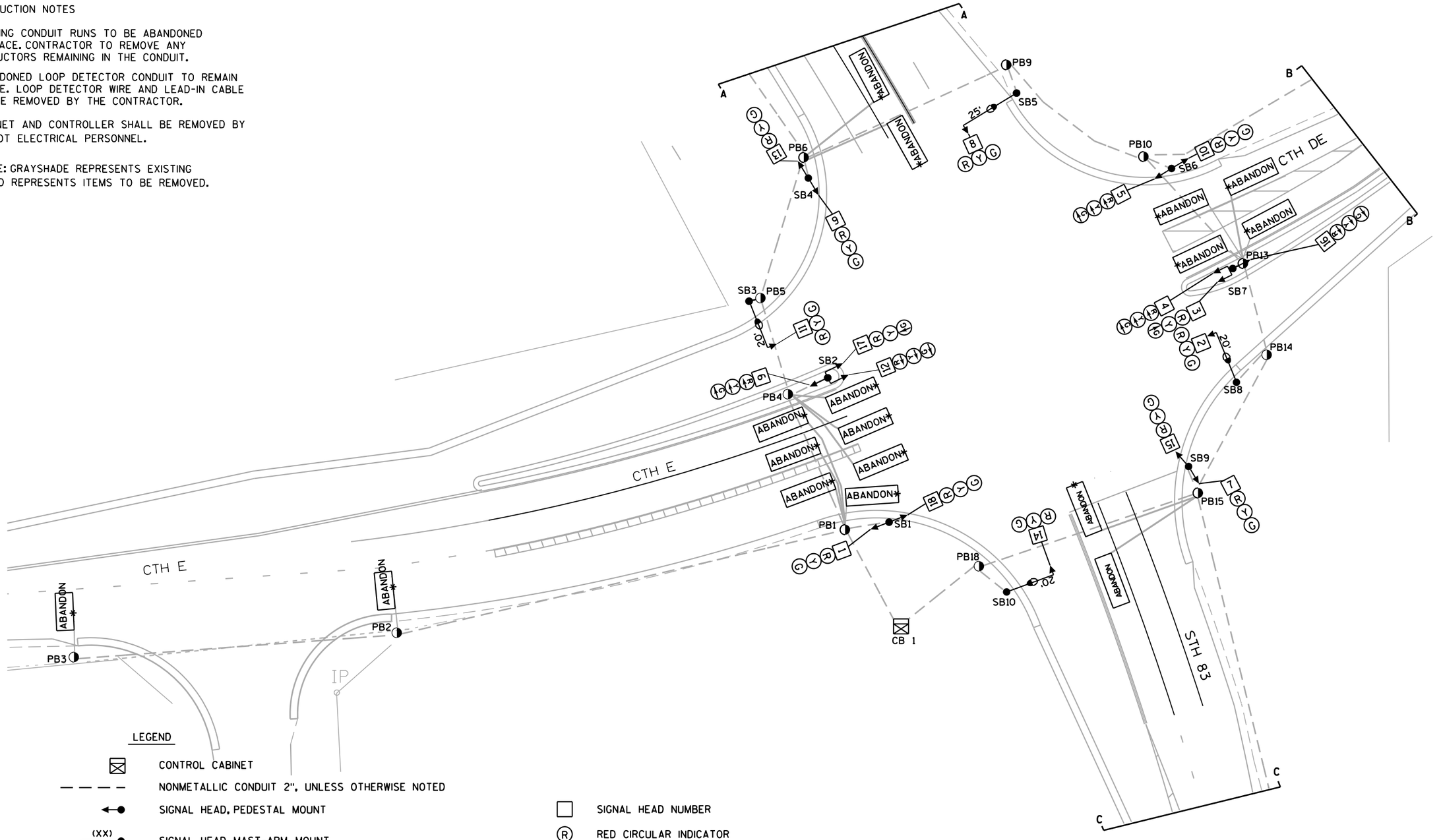
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN- PRE CONSTRUCTION	SHEET 271	E

2

CONSTRUCTION NOTES

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.
3. CABINET AND CONTROLLER SHALL BE REMOVED BY WISDOT ELECTRICAL PERSONNEL.

NOTE: GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS ITEMS TO BE REMOVED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW

TRAFFIC CONTROL SIGNAL
STH 83 & CTH DE/CTH E
TOWN OF GENESEE
WAUKESHA COUNTY

SIGNAL NO. S0812

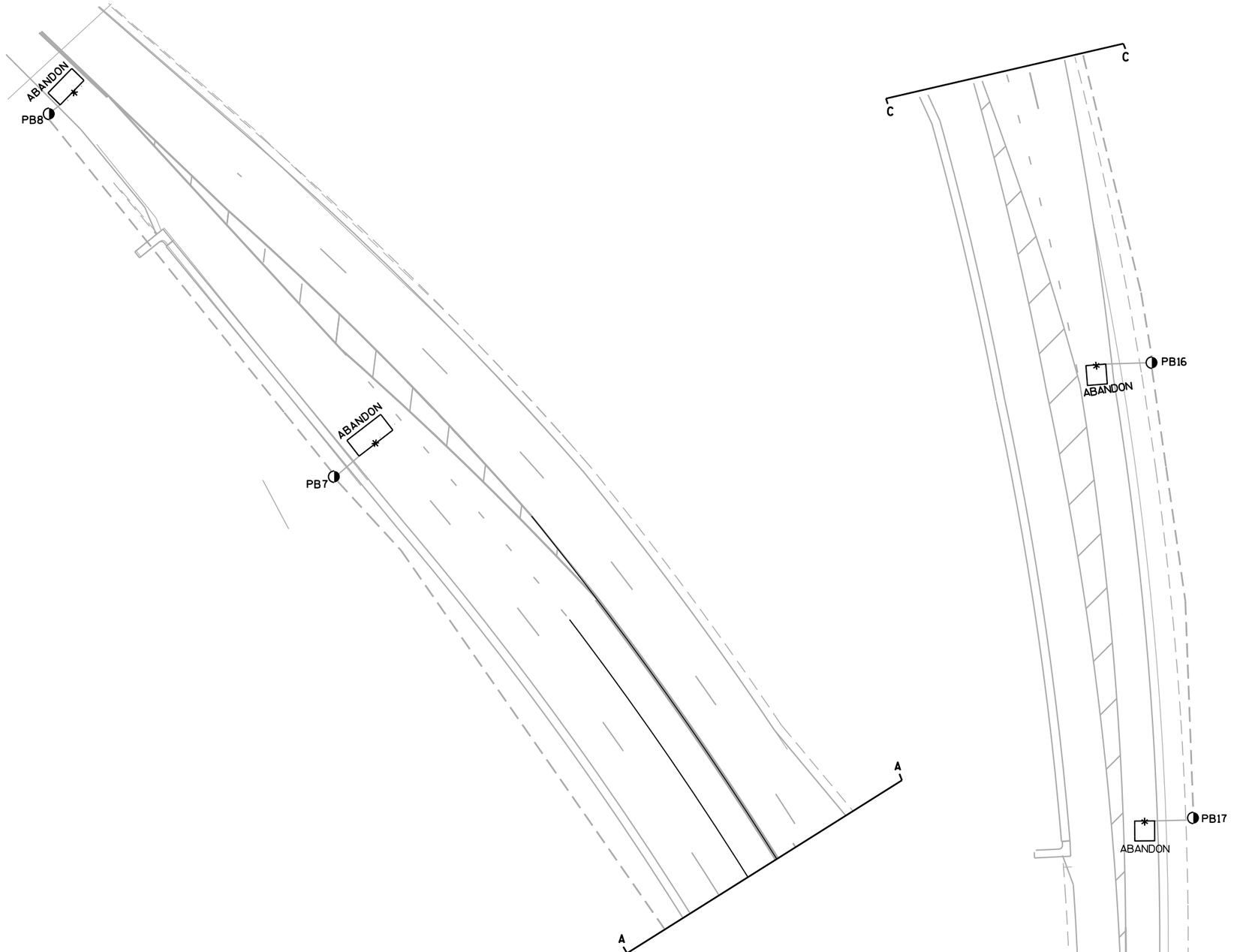
REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 1 OF 3

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 272	E

FILE NAME : J:\projects\d2_13301883\signals\S0812._REM.dgn PLOT DATE : 02-AUG-2013 08:36 PLOT BY : dotbgw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42



N

2

TRAFFIC CONTROL SIGNAL
STH 83 & CTH DE/CTH E
TOWN OF GENESEE
WAUKESHA COUNTY

SIGNAL NO. S0812

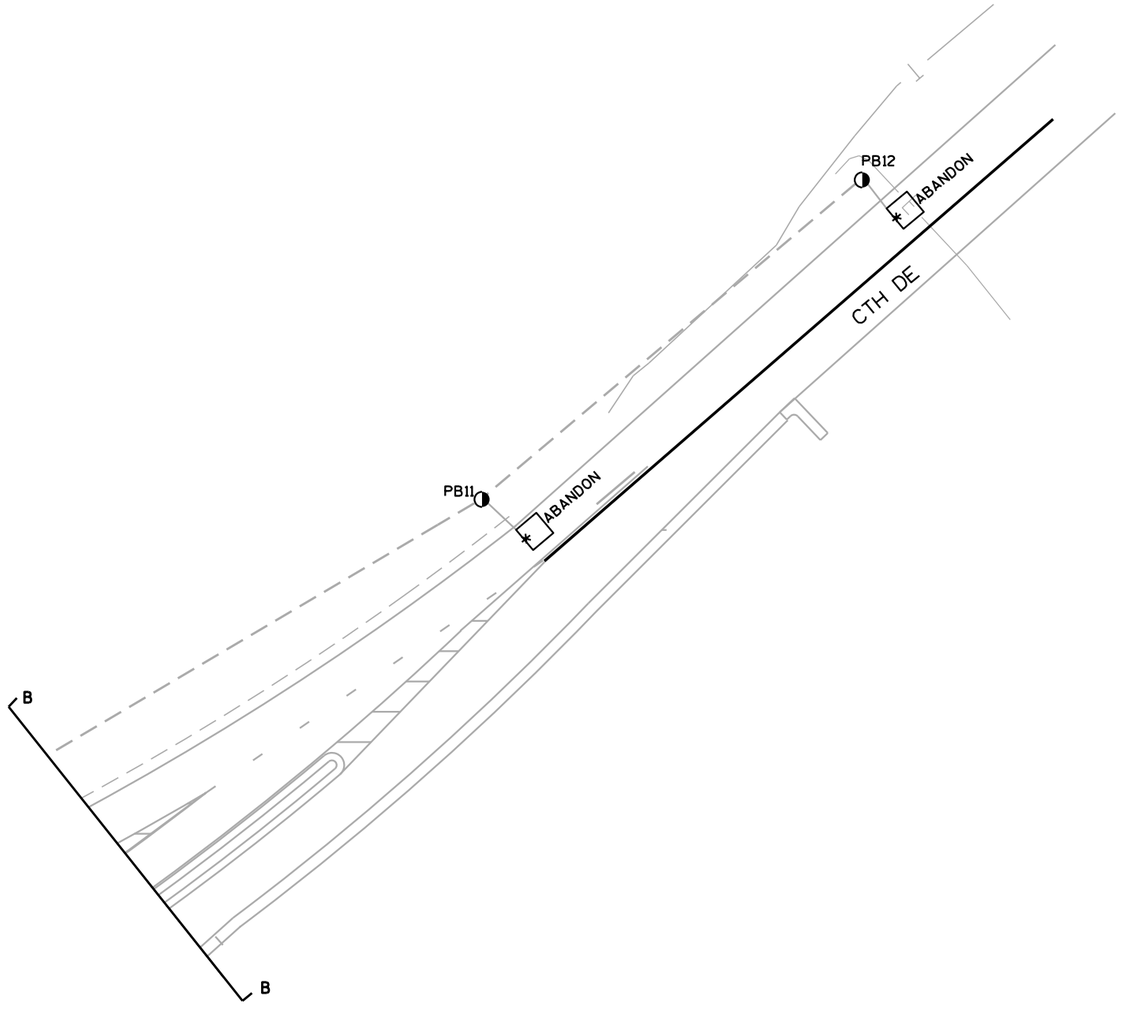
REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 2 OF 3

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 273	E

2

N



TRAFFIC CONTROL SIGNAL
STH 83 & CTH DE/CTH E
TOWN OF GENESEE
WAUKESHA COUNTY

SIGNAL NO. S0812

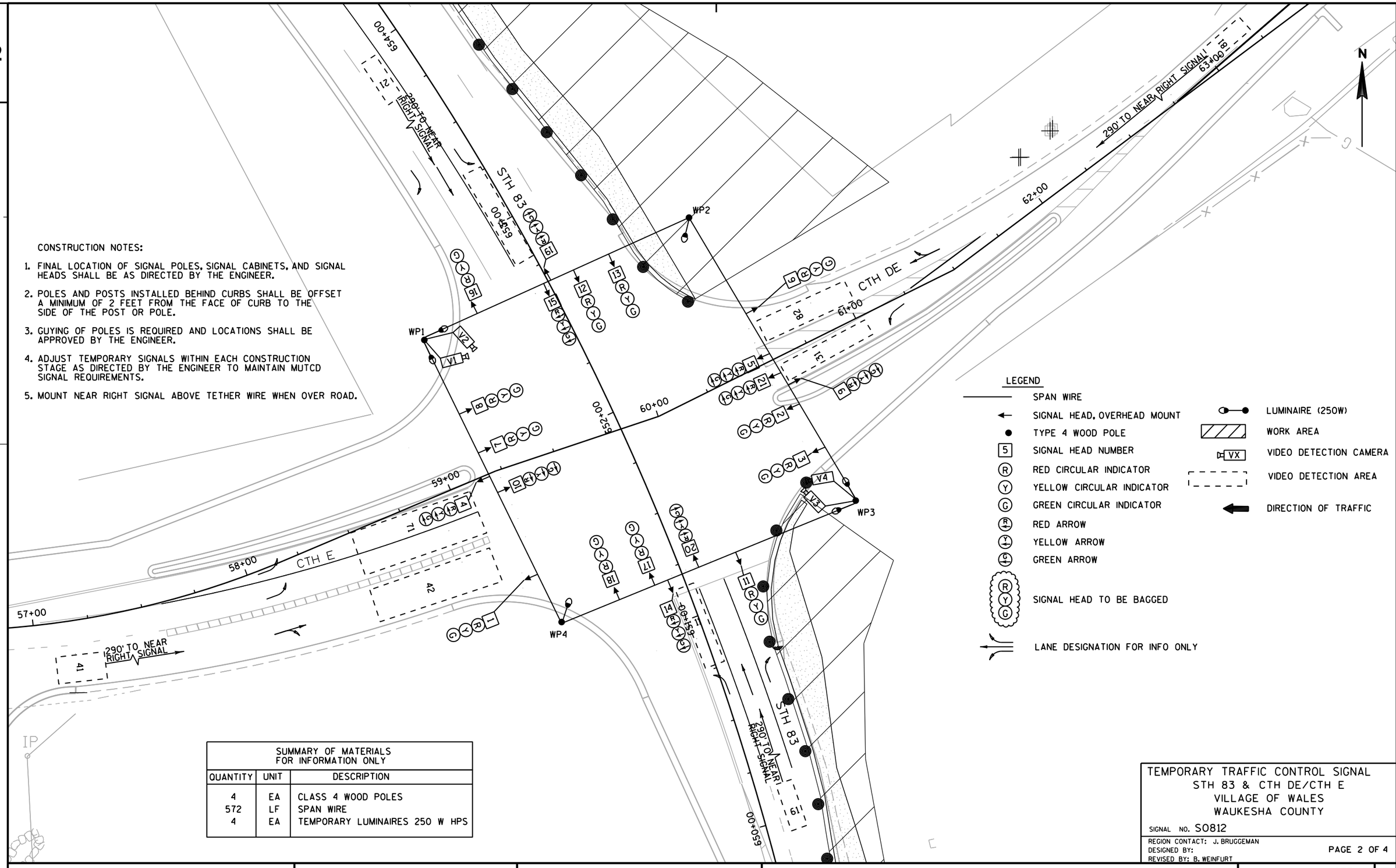
REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 3 OF 3

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 274	E

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINETS, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.



SUMMARY OF MATERIALS FOR INFORMATION ONLY		
QUANTITY	UNIT	DESCRIPTION
4	EA	CLASS 4 WOOD POLES
572	LF	SPAN WIRE
4	EA	TEMPORARY LUMINAIRES 250 W HPS

TEMPORARY TRAFFIC CONTROL SIGNAL
STH 83 & CTH DE/CTH E
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0812

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 2 OF 4

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN- STAGE 1	SHEET 275	E

FILE NAME : J:\projects\d2_13301883\signals\S0812._Stage_1.dgn PLOT DATE : 02-AUG-2013 08:37 PLOT BY : dotbgw PLOT NAME : PLOT SCALE : 40:1

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINETS, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.

LEGEND

- SPAN WIRE
- SIGNAL HEAD, OVERHEAD MOUNT
- TYPE 4 WOOD POLE
- [5] SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- LUMINAIRE (250W)
- WORK AREA
- VX VIDEO DETECTION CAMERA
- VIDEO DETECTION AREA
- DIRECTION OF TRAFFIC

TEMPORARY TRAFFIC CONTROL SIGNAL
STH 83 & CTH DE/CTH E
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0812

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 3 OF 4

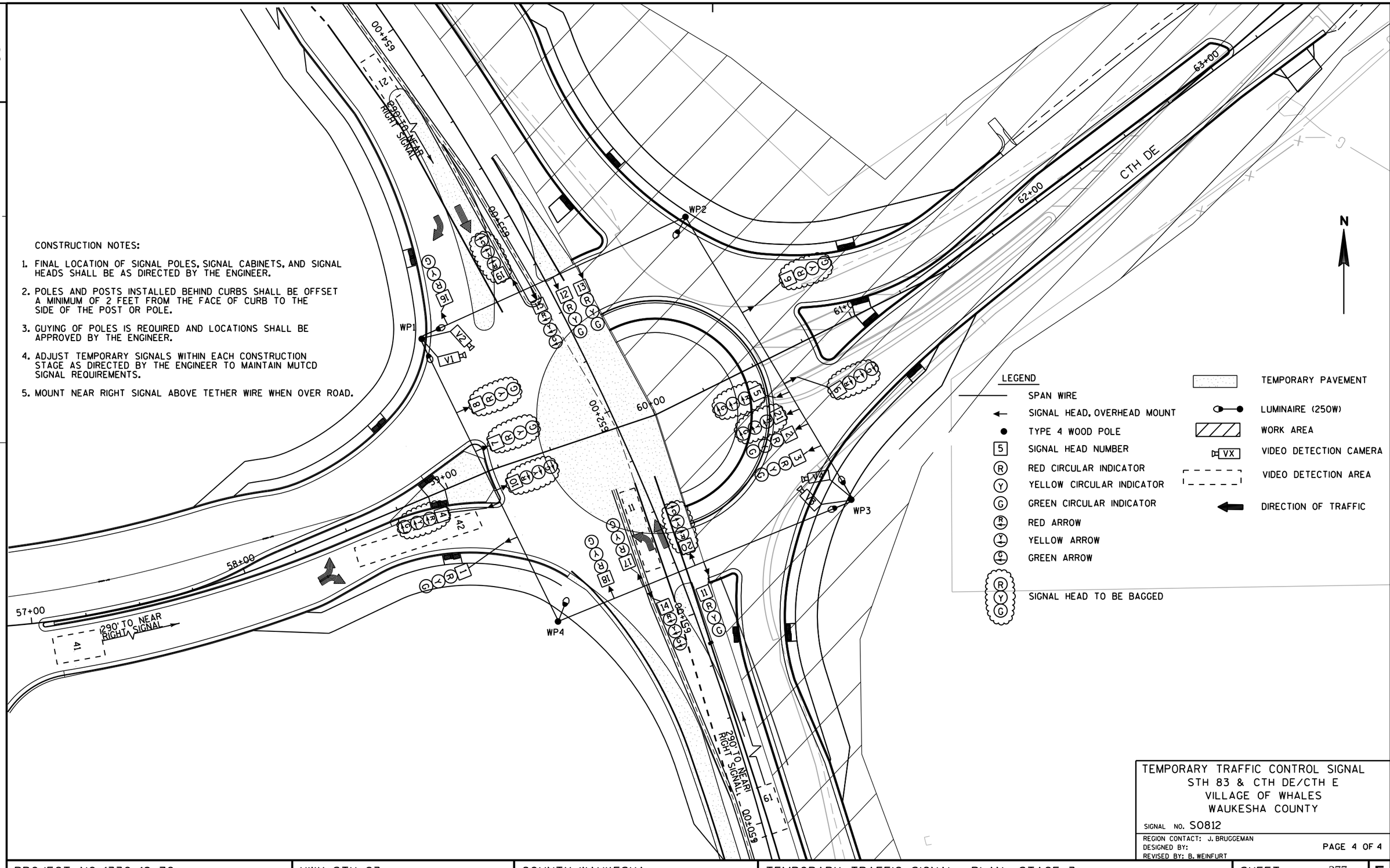
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN- STAGE 2	SHEET 276	E

FILE NAME : J:\projects\d2_13301883\signals\S0812._Stage_2.dgn PLOT DATE : 02-AUG-2013 08:37 PLOT BY : dotbgw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

CONSTRUCTION NOTES:

1. FINAL LOCATION OF SIGNAL POLES, SIGNAL CABINETS, AND SIGNAL HEADS SHALL BE AS DIRECTED BY THE ENGINEER.
2. POLES AND POSTS INSTALLED BEHIND CURBS SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF CURB TO THE SIDE OF THE POST OR POLE.
3. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
4. ADJUST TEMPORARY SIGNALS WITHIN EACH CONSTRUCTION STAGE AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
5. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.



TEMPORARY TRAFFIC CONTROL SIGNAL
STH 83 & CTH DE/CTH E
VILLAGE OF WHALES
WAUKESHA COUNTY

SIGNAL NO. S0812

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 4 OF 4

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TEMPORARY TRAFFIC SIGNAL PLAN- STAGE 3	SHEET 277	E

FILE NAME : J:\projects\d2_13301883\signals\S0812._Stage_3.dgn PLOT DATE : 02-AUG-2013 08:37 PLOT BY : dotbgw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
Ø1	14,15	G	Y R	R	R R	R	R R	R	R R	
Ø2	16,17,18	R	R R	G	Y R	R	R R	R	R R	
Ø3	9,10	R	R R	R	R R	G	Y R	R	R R	
Ø4	1,2,3	R	R R	R	R R	R	R R	G	Y R	
Ø5	19,20	R	R R	R	R R	R	R R	R	R R	
Ø6	11,12,13	R	R R	R	R R	R	R R	R	R R	
Ø7	4,5,21	R	R R	R	R R	R	R R	R	R R	
Ø8	6,7,8	R	R R	R	R R	R	R R	R	R R	
Ø2P										
Ø4P										
Ø6P										
Ø8P										

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
Ø1	14,15	R	R R	R	R R	R	R R	R	R R
Ø2	16,17,18	R	R R	R	R R	R	R R	R	R R
Ø3	9,10	R	R R	R	R R	R	R R	R	R R
Ø4	1,2,3	R	R R	R	R R	R	R R	R	R R
Ø5	19,20	G	Y R	R	R R	R	R R	R	R R
Ø6	11,12,13	R	R R	G	Y R	R	R R	R	R R
Ø7	4,5,21	R	R R	R	R R	G	Y R	R	R R
Ø8	6,7,8	R	R R	R	R R	R	R R	G	Y R
Ø2P									
Ø4P									
Ø6P									
Ø8P									

BARRIER

N

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,3,4,7,8
2	5 OR 6	1,3,4,7,8
3	7 OR 8	1,2,4,5,6
4	7 OR 8	1,2,3,5,6
5	1 OR 2	3,4,6,7,8
6	1 OR 2	3,4,5,7,8
7	3 OR 4	1,2,5,6,8
8	3 OR 4	1,2,5,6,7

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11		X			1	1					VIDEO
21		X			2	2					VIDEO
31		X			3	3					VIDEO
41				X		4			X		VIDEO
42		X			4	4					VIDEO
51		X			5	5					VIDEO
61		X			6	6					VIDEO
71		X			7	7					VIDEO
81				X		8			X		VIDEO
82		X			8	8					VIDEO
83		X			8	8					VIDEO

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN.	X
7		4		X
8		4		X

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM *:	SS- -

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

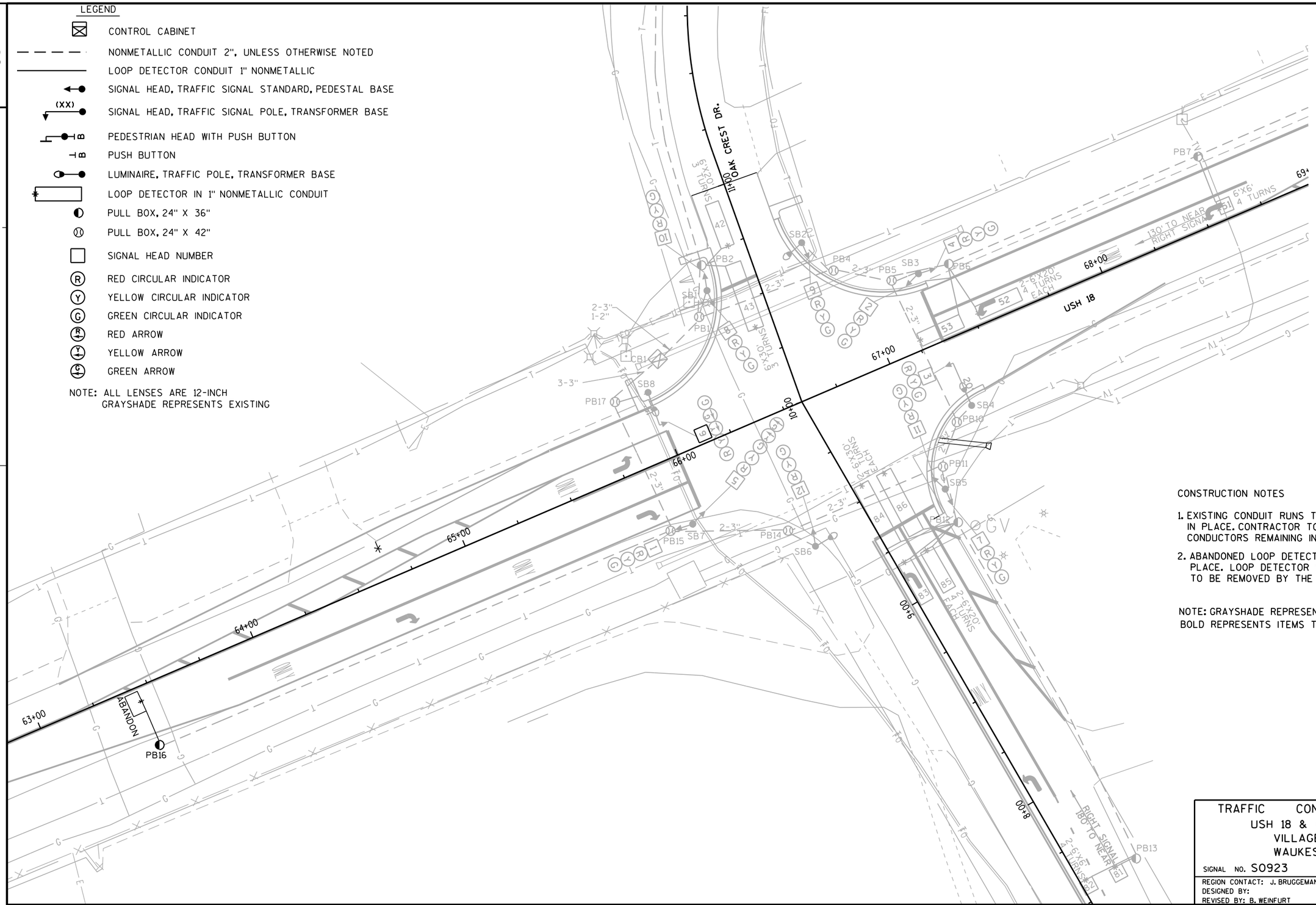
STH 83 & CTH DE/CTH E
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0812
CONTROLLER TYPE: TEMP
DATE 3-12 PAGE NO. OF

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



N

CONSTRUCTION NOTES

1. EXISTING CONDUIT RUNS TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE ANY CONDUCTORS REMAINING IN THE CONDUIT.
2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.

NOTE: GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
USH 18 & OAK CREST DR.
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0923

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 1 OF 1

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 279	E

FILE NAME : J:\projects\d2_13301883\signals\S0923_REM.DGN PLOT DATE : 02-AUG-2013 09:22 PLOT BY : dotbgw PLOT NAME : PLOT SCALE : 40:1

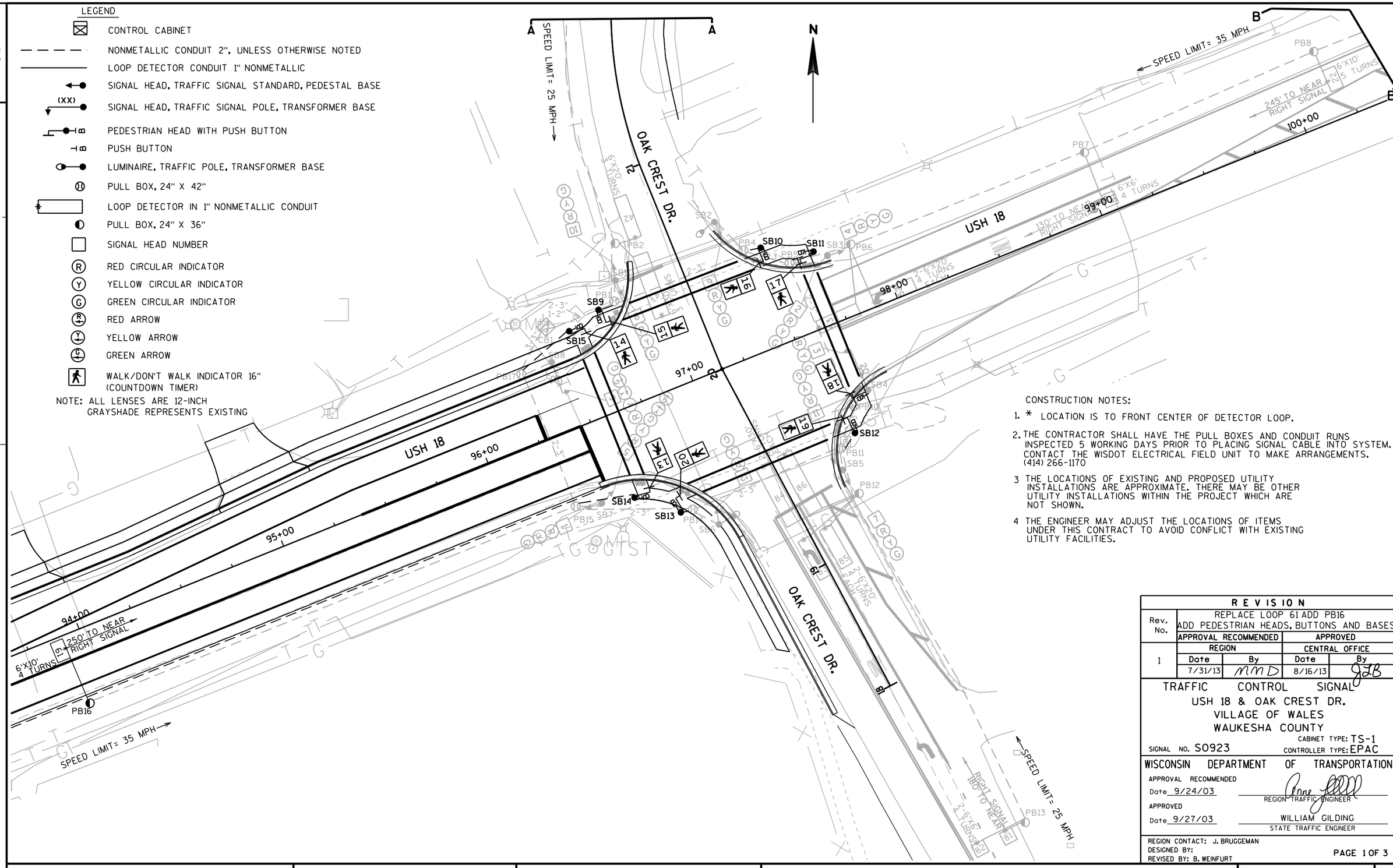
WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- PULL BOX, 24" X 42"
- * LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

REVISION				
Rev. No.	REPLACE LOOP 61 ADD PB16 ADD PEDESTRIAN HEADS, BUTTONS AND BASES			
	APPROVAL RECOMMENDED		APPROVED	
1	REGION		CENTRAL OFFICE	
	Date	By	Date	By
	7/31/13	MMD	8/16/13	GJB

TRAFFIC CONTROL SIGNAL
USH 18 & OAK CREST DR.
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0923
CABINET TYPE: TS-1
CONTROLLER TYPE: EPAC

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 9/24/03
REGION TRAFFIC ENGINEER

APPROVED
Date 9/27/03
WILLIAM GILDING
STATE TRAFFIC ENGINEER

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 1 OF 3

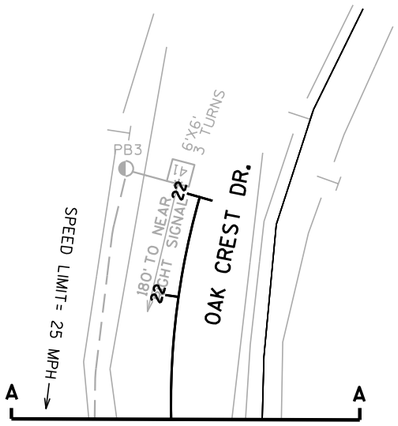
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 280	E

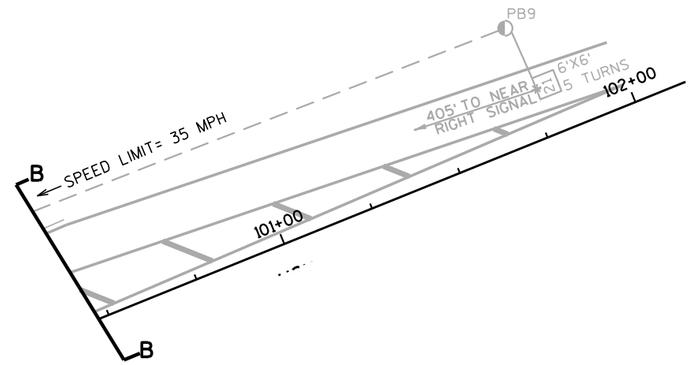
FILE NAME : J:\projects\d2_13301883\signals\S0923_A.DGN PLOT DATE : 06-SEP-2013 12:11 PLOT BY : dotbgw PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL
USH 18 & OAK CREST DR.
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0923

REGION CONTACT: J. BRUGGEMAN
DESIGNED BY:
REVISED BY: B. WEINFURT

PAGE 2 OF 3

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC SIGNAL PLAN	SHEET 281	E

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
		NOT USED		⇦⇨		NOT USED		⇩⇧		
Ø1										
Ø2	4,5,6			G	Y R			R	R R	
Ø3										
Ø4	10,11,12			R	R R			G	Y R	
Ø5	5,6			-	- -			-	- -	
Ø6	1,2,3			R	R R			R	R R	
Ø7										
Ø8	7,8,9			R	R R			R	R R	
Ø2P	15,16			*	D D			D	D D	
Ø4P	13,14			D	D D			*	D D	
Ø6P	19,20			D	D D			D	D D	
Ø8P	17,18			D	D D			D	D D	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
		⇦	⇨⇦			NOT USED		⇧⇩	
Ø1									
Ø2	4,5,6	R	R R	R	R R			R	R R
Ø3									
Ø4	10,11,12	R	R R	R	R R			R	R R
Ø5	5,6	G	Y R	-	- -			-	- -
Ø6	1,2,3	R	R R	G	Y R			R	R R
Ø7									
Ø8	7,8,9	R	R R	R	R R			G	Y R
Ø2P	15,16	D	D D	D	D D			D	D D
Ø4P	13,14	D	D D	D	D D			D	D D
Ø6P	19,20	D	D D	*	D D			D	D D
Ø8P	17,18	D	D D	D	D D			*	D D

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	5 OR 6	4,8
3		
4	8	2,5,6
5	2	4,6,8
6	2	4,5,8
7		
8	4	2,5,6

N

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
21	1	X			2	2				6X6	5
22	1	X			2	2				6X10	5
41	2			X		4			X	6X6	3
42	3	X			4	4		X		6X20	3
43	3	X			4	4		X		6X30	3
51	4			X		5			X	6X6	4
52	5	X						X		6X20	4
53	5	X						X		6X20	4
61	6	X			6	6				6X10	4
81	7			X		8			X	6X6	4
82	8			X		8			X	6X6	4
83	9	X			8	8		X		6X20	4
84	9	X			8	8		X		6X30	4
85	10	X			8	8		X		6X20	4
86	10	X			8	8		X		6X30	4

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MIN.	X
3				X
4		8		X
5		2		
6	X	2	MIN.	X
7				
8		4		X

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM *:	SS- -

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

USH 18 & OAK CREST DR.
VILLAGE OF WALES
WAUKESHA COUNTY

SIGNAL NO. S0923
CONTROLLER TYPE: EPAC
DATE 7/13
PAGE NO. 3 OF 3

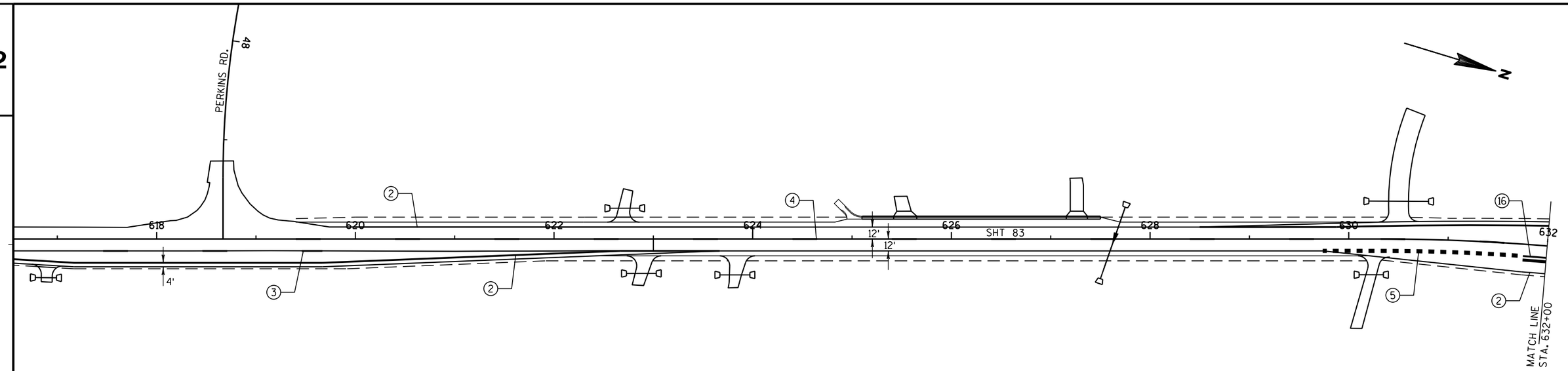
PROJECT ID:	1330-18-70
INTERSECTION:	USH 18 & Oak Crest Dr

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
				RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	D/WALK	WALK		
SB4	12 (EXISTING)	3	6	RED	ORG	GRN							
		18	8							BLK	BLU		
		BUTTON	8									WHT/BLK	
SB9	7	15	2							BLK	BLU		
		BUTTON	2									WHT/BLK	
SB10	7	16	2							BLK	BLU		
		BUTTON	2									WHT/BLK	
SB11	7	17	8							BLK	BLU		
		BUTTON	8									WHT/BLK	
SB12	7	19	6							BLK	BLU		
		BUTTON	6									WHT/BLK	
SB13	7	20	6							BLK	BLU		
		BUTTON	6									WHT/BLK	
SB14	7	13	4							BLK	BLU		
		BUTTON	4									WHT/BLK	
SB15	7	14	4							BLK	BLU		
		BUTTON	4									WHT/BLK	

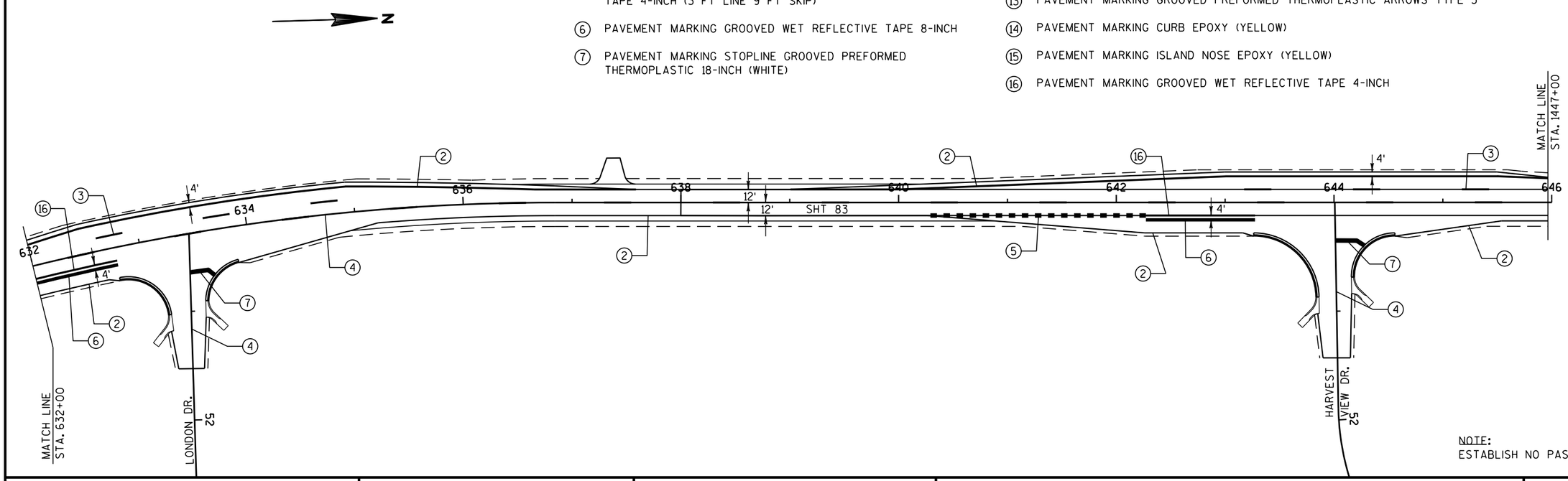
Equipment grounding conductor 10 AWG Green XLP	
From	TO
CB1	SB9
SB9	SB1
SB2	SB10
SB10	SB11
SB11	SB3
SB4	SB12
SB12	SB5
SB6	SB13
SB13	SB14
SB14	SB7
SB8	SB15
SB15	CB1

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Install equipment grounding conductors and grounded conductors to reestablish the complete grounding and grounded circuits from base to base



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5 FT LINE 37.5 FT SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH
7. PAVEMENT MARKING STOPLINE GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD (ONLY)
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH



NOTE:
ESTABLISH NO PASSING ZONE PER SPEC.

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 284	E

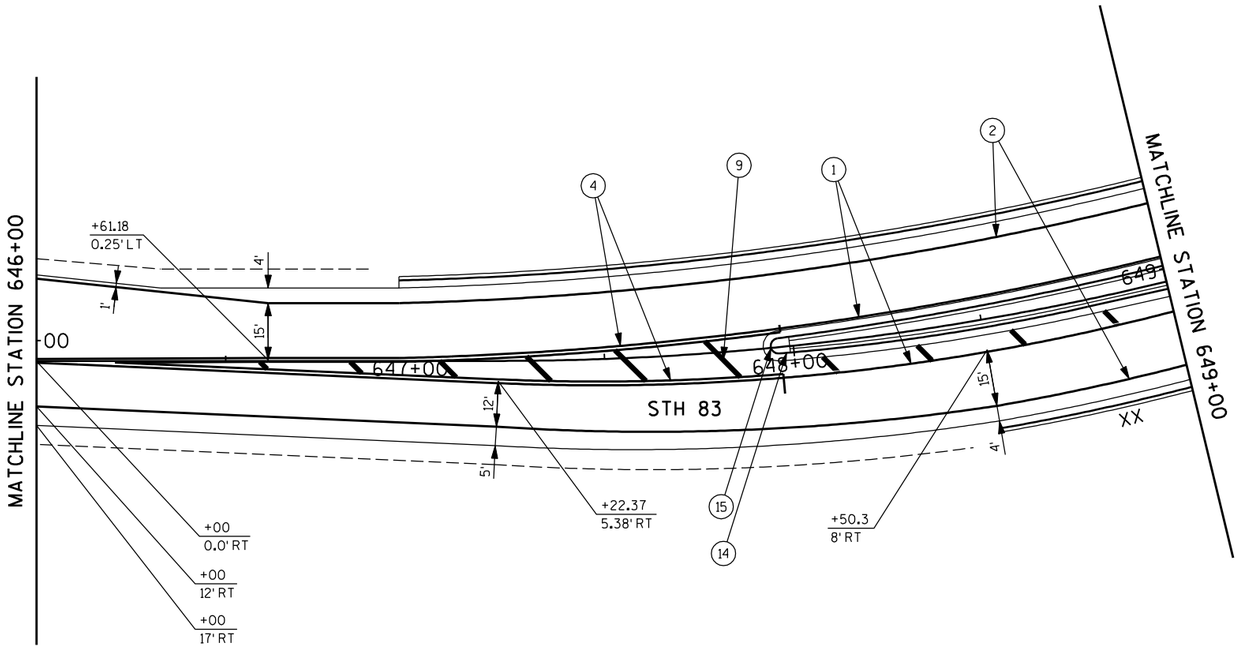
2

2

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, 37.5' SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3' LINE, 12' SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH (WHITE)
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD
12. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 1
17. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2R
18. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS 3R
19. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
20. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 3' SKIP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
22. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE), (6' LINE, 3' SKIP)
23. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE), (2' LINE, 2' SKIP)
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

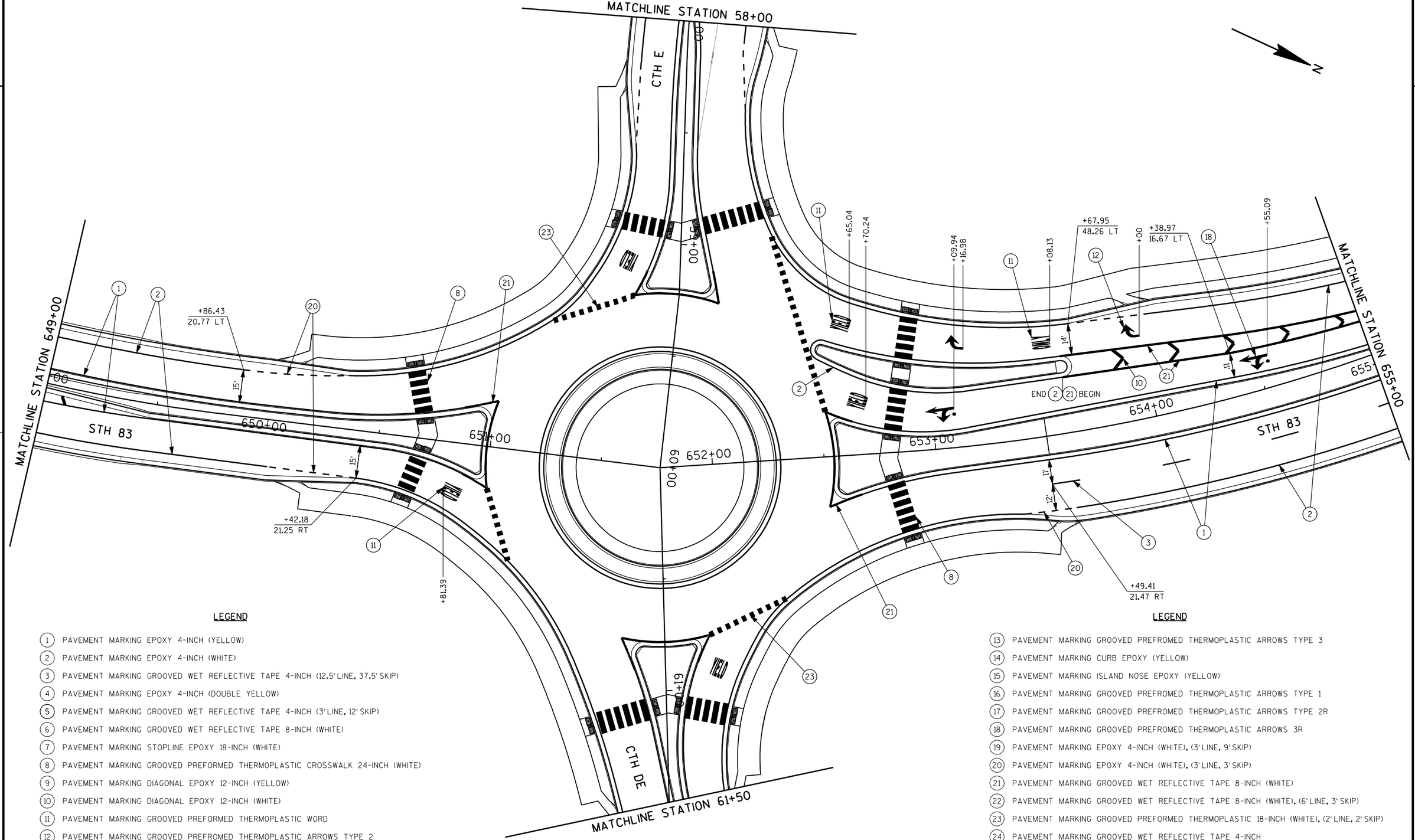
N



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 285	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_024502_pm.dgn
PLOT DATE : 7/15/2013 2:21:23 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, 37.5' SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3' LINE, 12' SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH (WHITE)
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD
12. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2

LEGEND

13. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 1
17. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2R
18. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS 3R
19. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
20. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 3' SKIP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
22. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE), (6' LINE, 3' SKIP)
23. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE), (2' LINE, 2' SKIP)
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 286	E

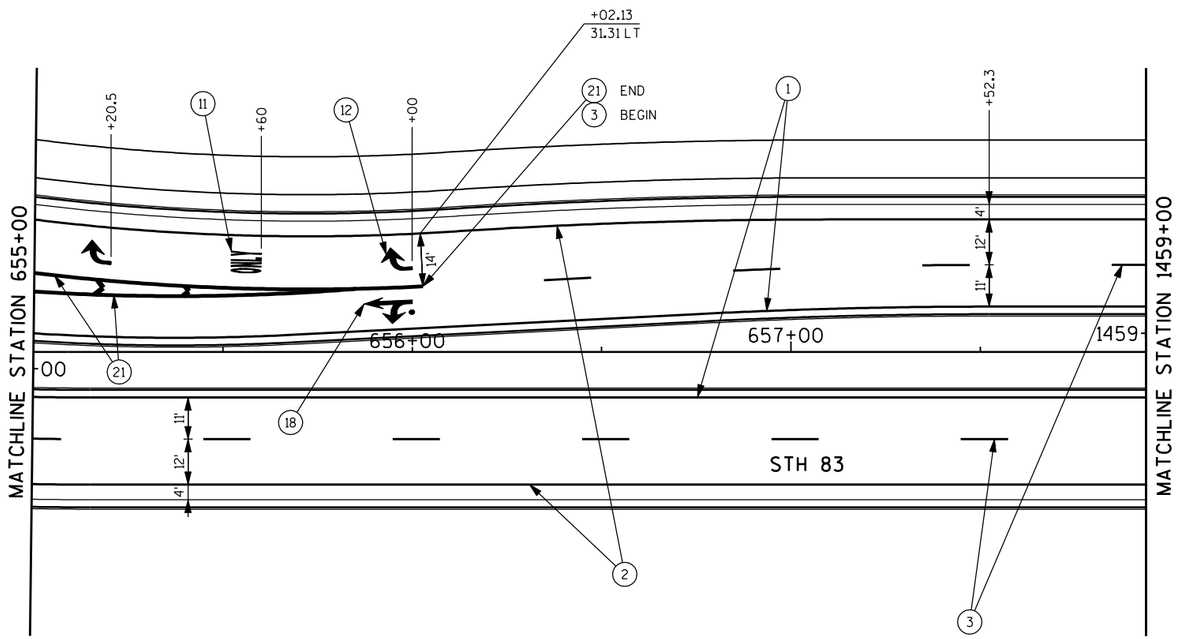
FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_024503_pm.dgn
PLOT DATE : 7/15/2013 2:22:30 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2

2

LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(2) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
(3) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, 37.5' SKIP)
(4) PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
(5) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3' LINE, 12' SKIP)
(6) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
(7) PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
(8) PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH (WHITE)
(9) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
(10) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
(11) PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD
(12) PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2
(13) PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 3
(14) PAVEMENT MARKING CURB EPOXY (YELLOW)
(15) PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
(16) PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 1
(17) PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2R
(18) PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS 3R
(19) PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
(20) PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 3' SKIP)
(21) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
(22) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE), (6' LINE, 3' SKIP)
(23) PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE), (2' LINE, 2' SKIP)
(24) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

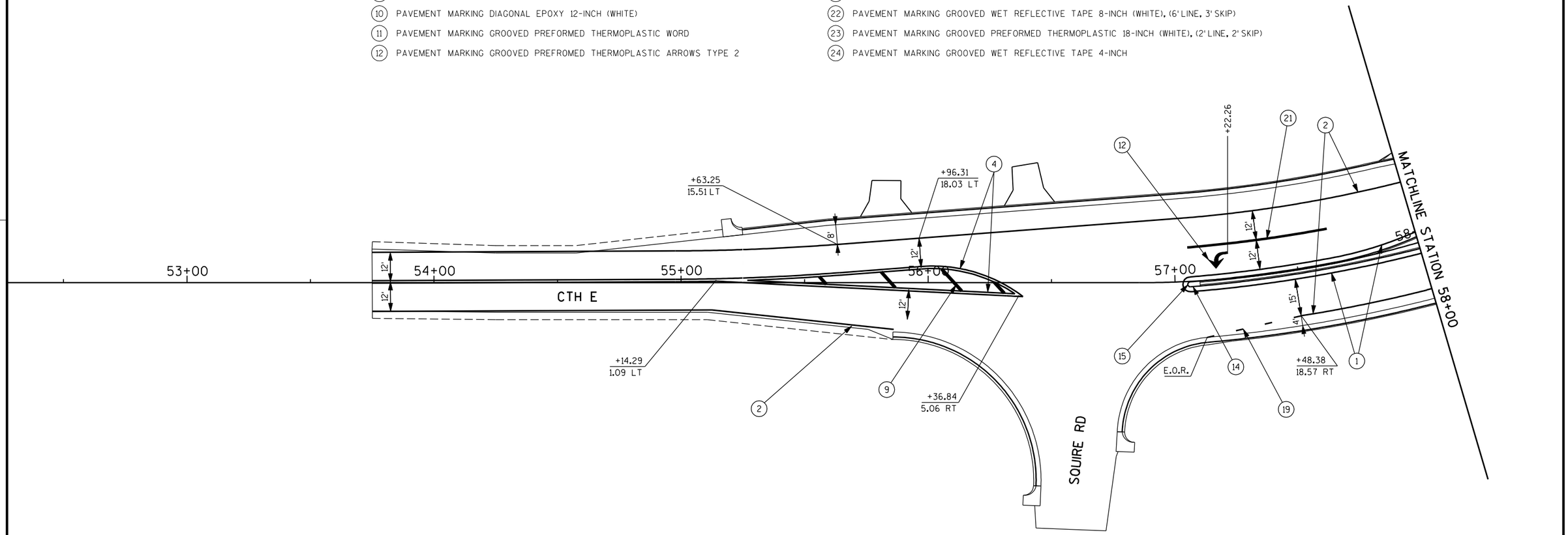


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 287	E

2

LEGEND

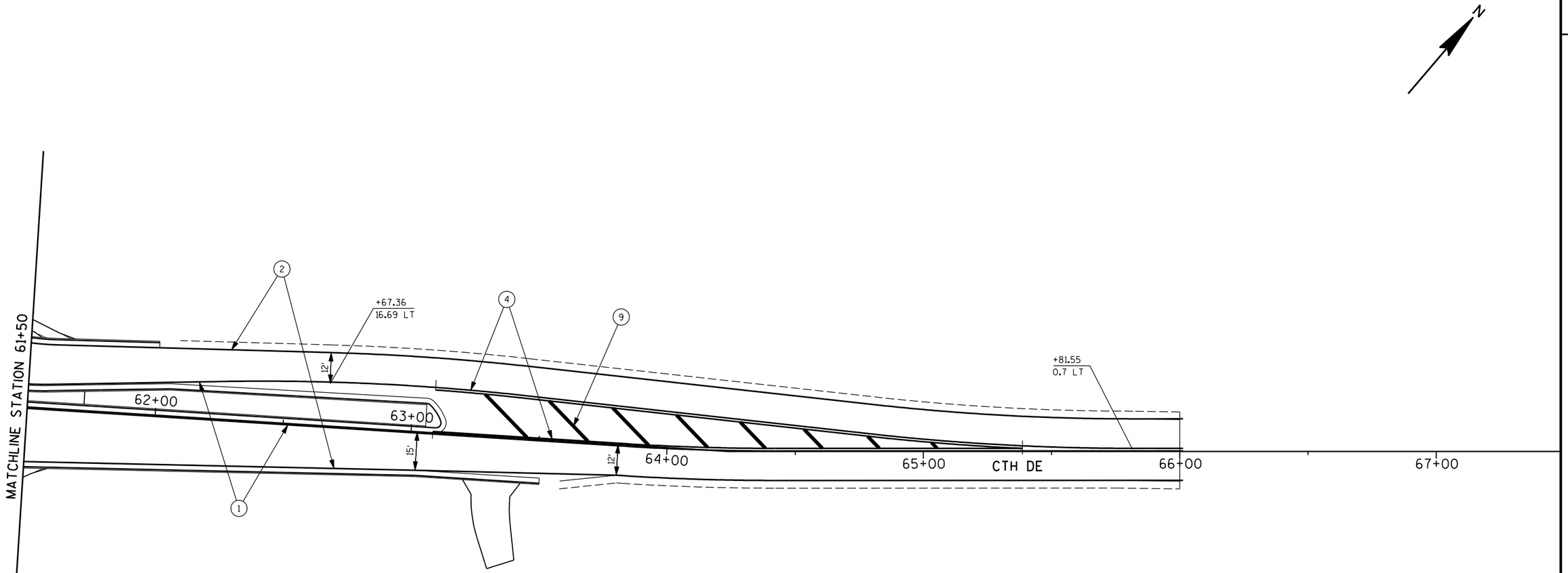
1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, 37.5' SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3' LINE, 12' SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH (WHITE)
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD
12. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 1
17. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2R
18. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS 3R
19. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
20. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 3' SKIP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
22. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE), (6' LINE, 3' SKIP)
23. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE), (2' LINE, 2' SKIP)
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 288	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_024505_pm.dgn
PLOT DATE : 7/15/2013 4:14:50 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2

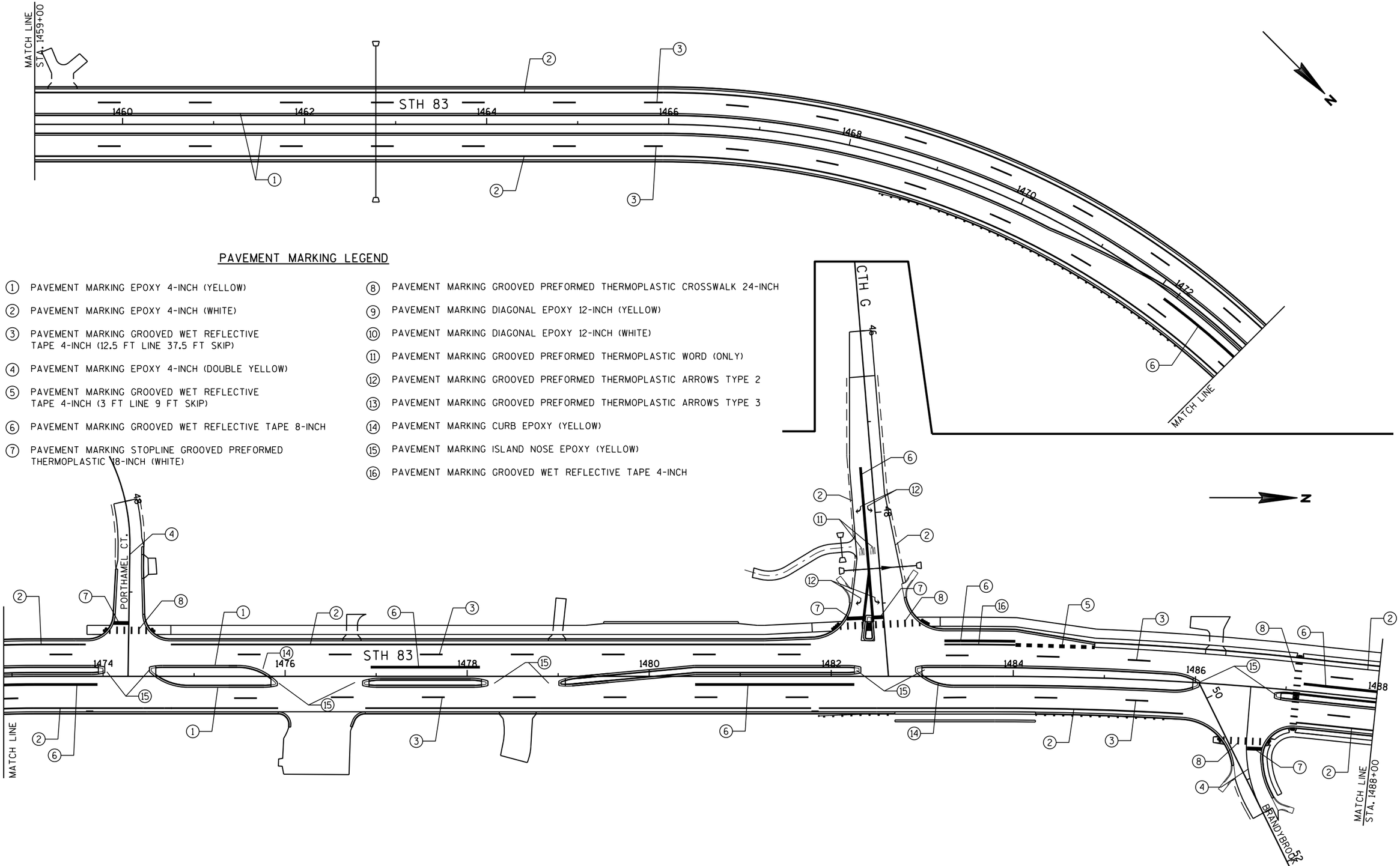


LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, 37.5' SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3' LINE, 12' SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH (WHITE)
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD
12. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 1
17. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2R
18. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS 3R
19. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
20. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 3' SKIP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
22. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE), (6' LINE, 3' SKIP)
23. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE), (2' LINE, 2' SKIP)
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

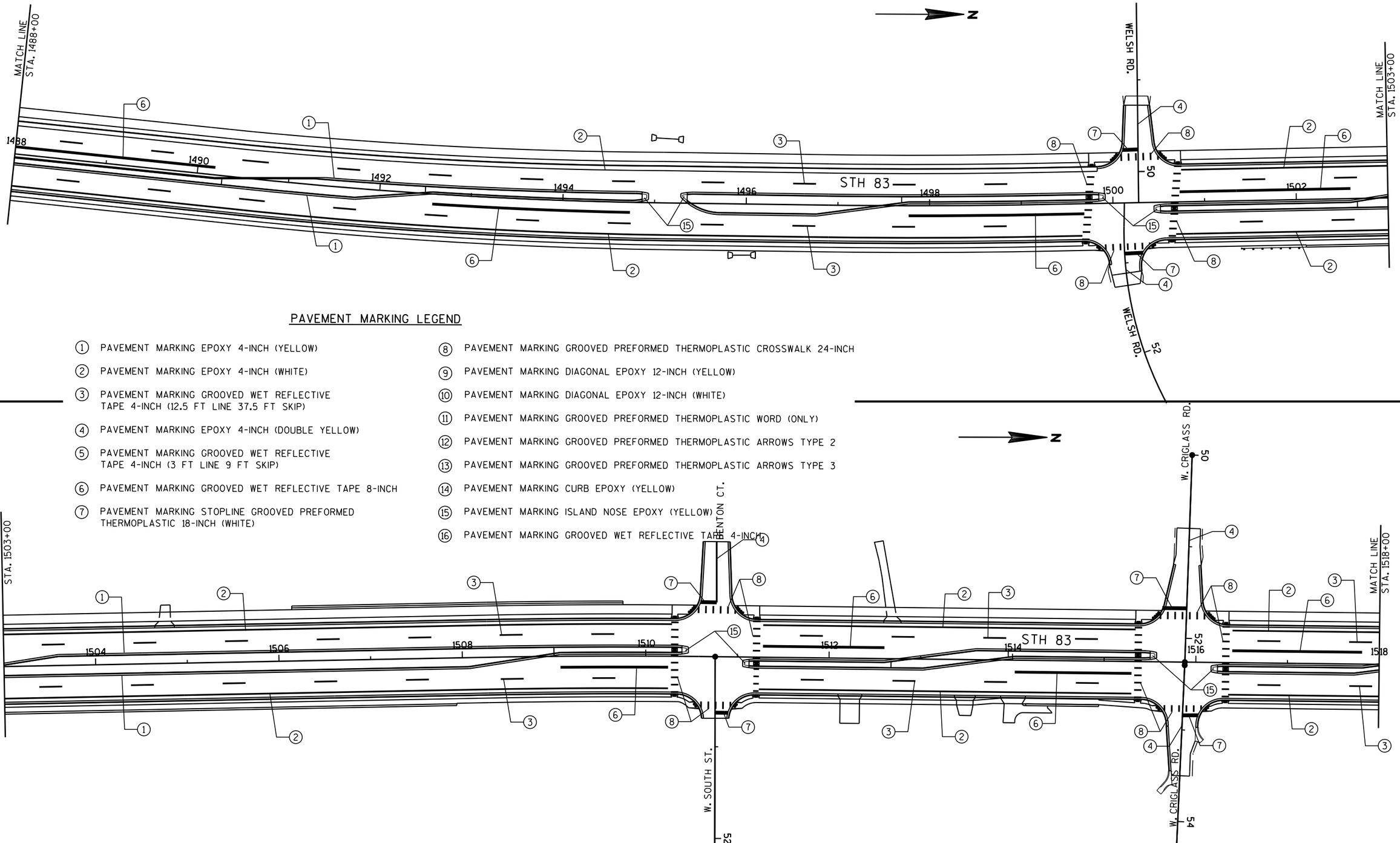
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 289	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_024506_pm.dgn PLOT DATE : 7/15/2013 2:24:18 PM PLOT BY : Josh Mitchell (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 40.0000 FT / IN.



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5 FT LINE 37.5 FT SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH
7. PAVEMENT MARKING STOPLINE GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD (ONLY)
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

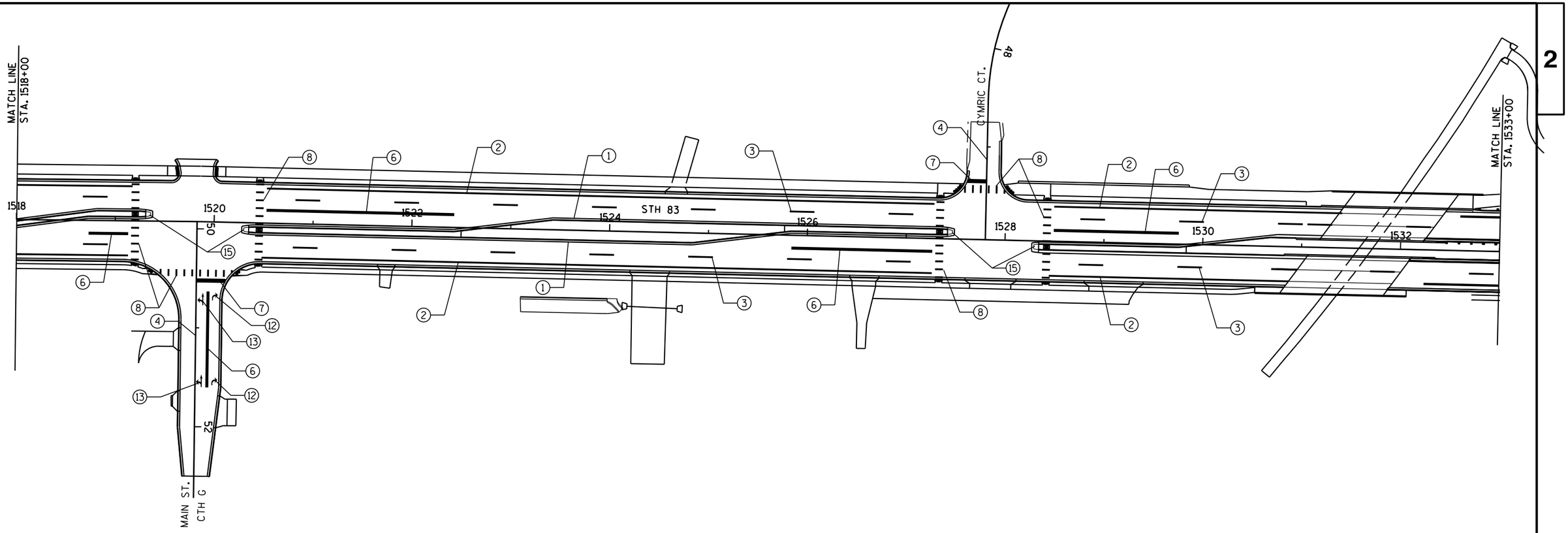


PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5 FT LINE 37.5 FT SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH
7. PAVEMENT MARKING STOPLINE GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD (ONLY)
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET	E

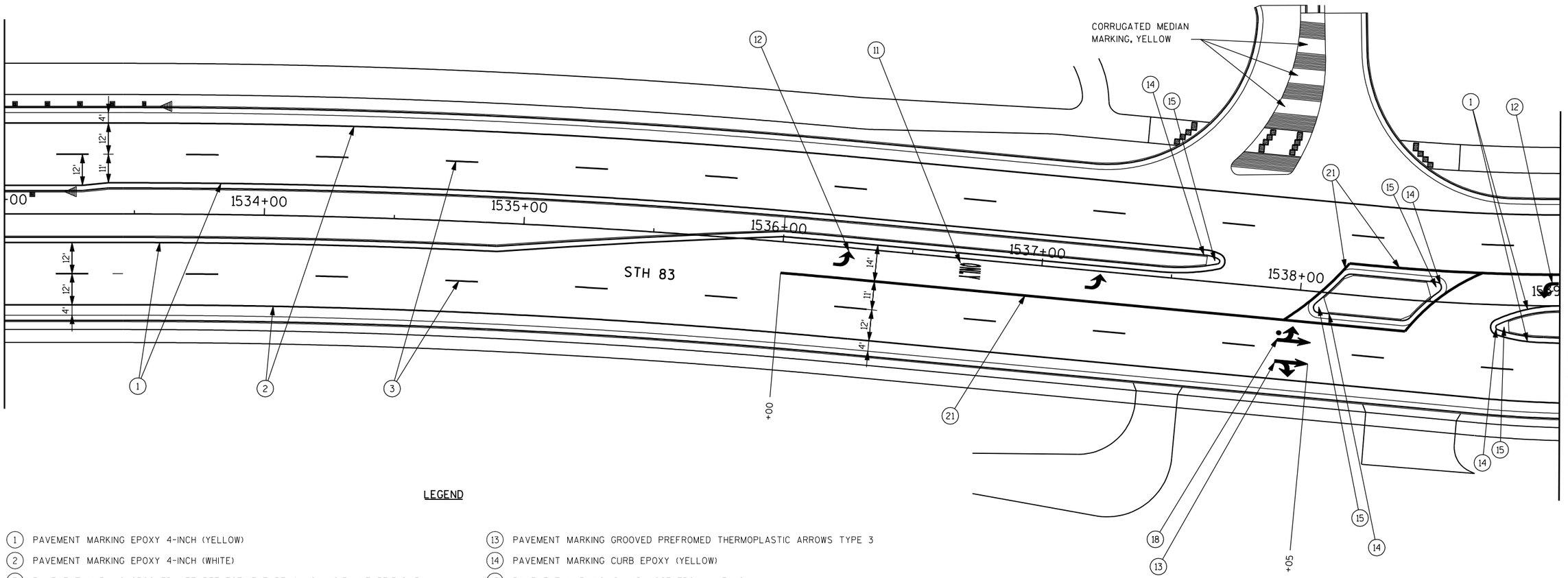
FILE NAME : J:\projects\d2_13301883\024504_PM.DGN PLOT DATE : 09-SEP-2013 09:51 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5 FT LINE 37.5 FT SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH
7. PAVEMENT MARKING STOPLINE GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD (ONLY)
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

2



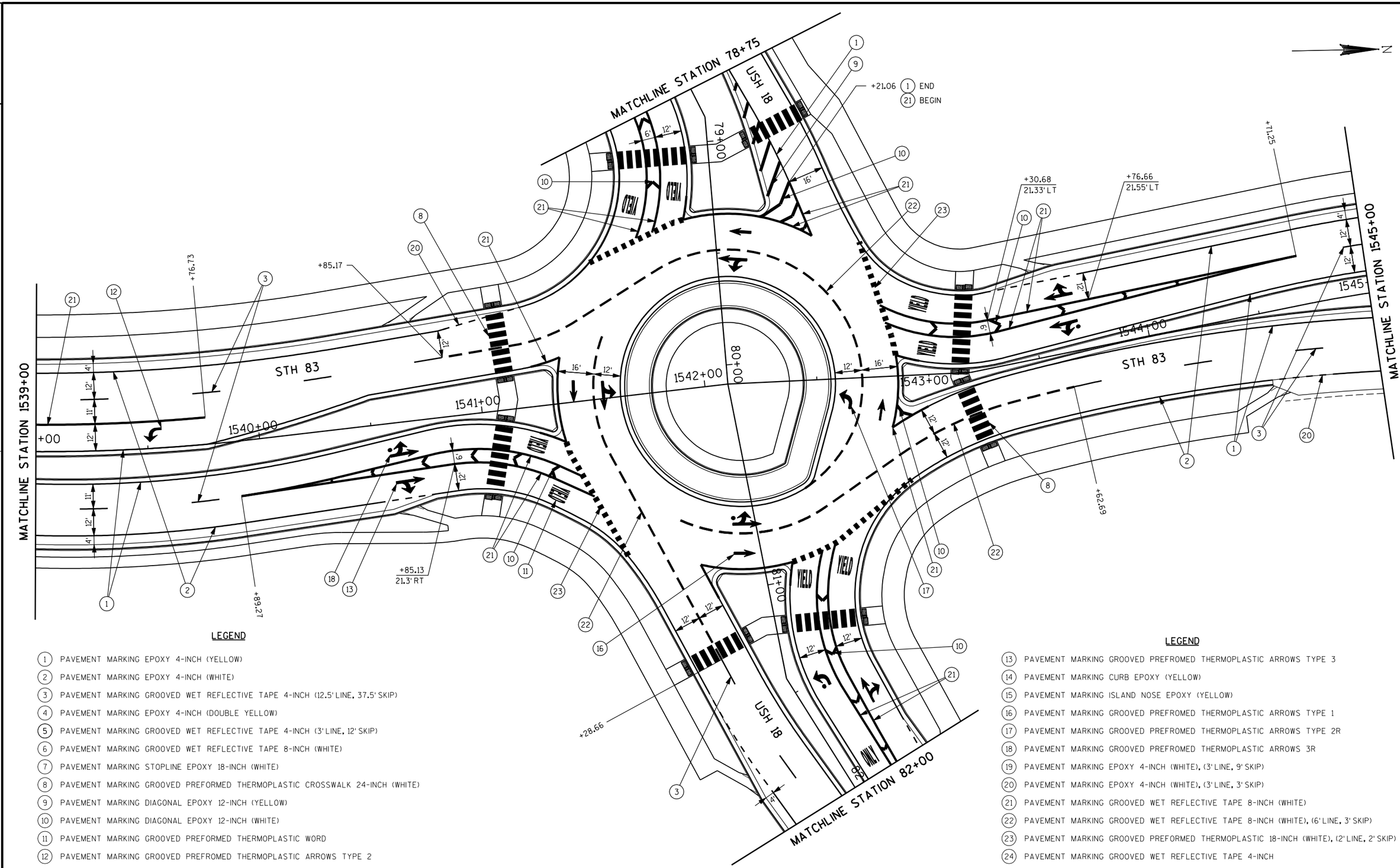
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, 37.5' SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3' LINE, 12' SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH (WHITE)
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD
12. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 1
17. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2R
18. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS 3R
19. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
20. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 3' SKIP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
22. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE), (6' LINE, 3' SKIP)
23. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE), (2' LINE, 2' SKIP)
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 293	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_024510_pm.dgn
PLOT DATE : 7/15/2013 4:12:31 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2



LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, 37.5' SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3' LINE, 12' SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH (WHITE)
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD
12. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2

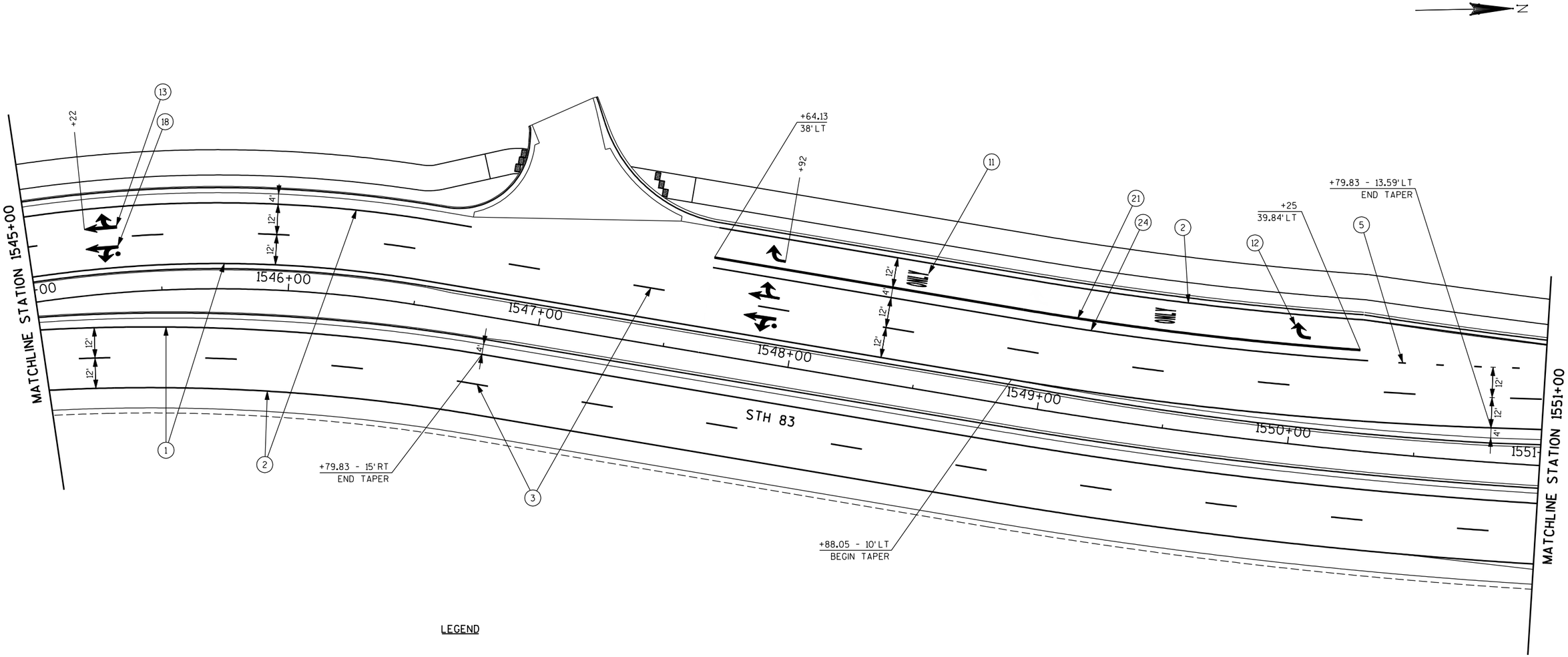
LEGEND

13. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 1
17. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2R
18. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS 3R
19. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
20. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 3' SKIP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
22. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE), (6' LINE, 3' SKIP)
23. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE), (2' LINE, 2' SKIP)
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 294	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_024511_pm.dgn
PLOT DATE : 7/15/2013 2:25:11 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2



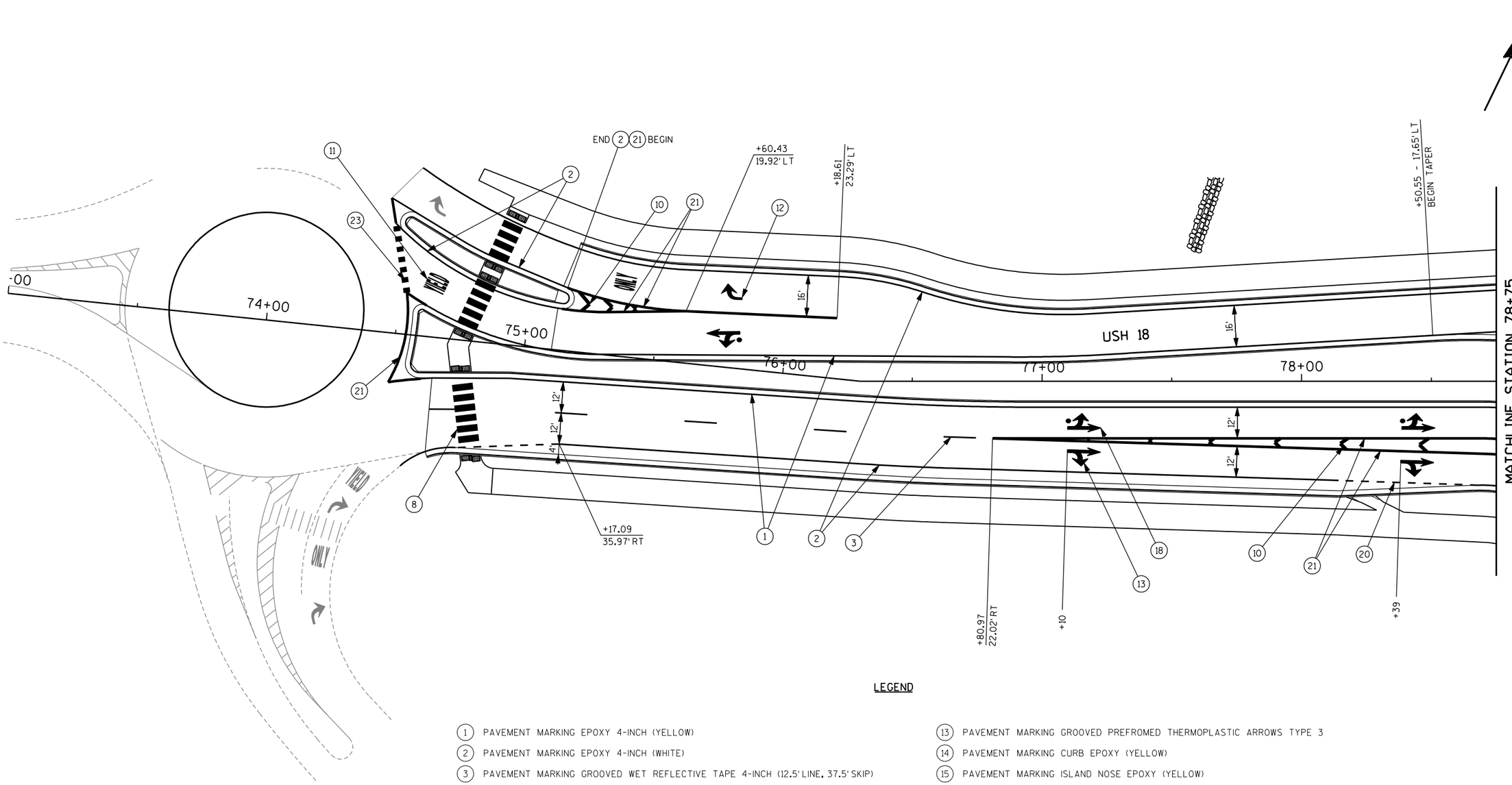
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, 37.5' SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3' LINE, 12' SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH (WHITE)
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD
12. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 1
17. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2R
18. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS 3R
19. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
20. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 3' SKIP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
22. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 8-INCH (WHITE), (6' LINE, 3' SKIP)
23. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE), (2' LINE, 2' SKIP)
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 295	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_024512_pm.dgn
PLOT DATE : 4/30/2013 10:26:13 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

2



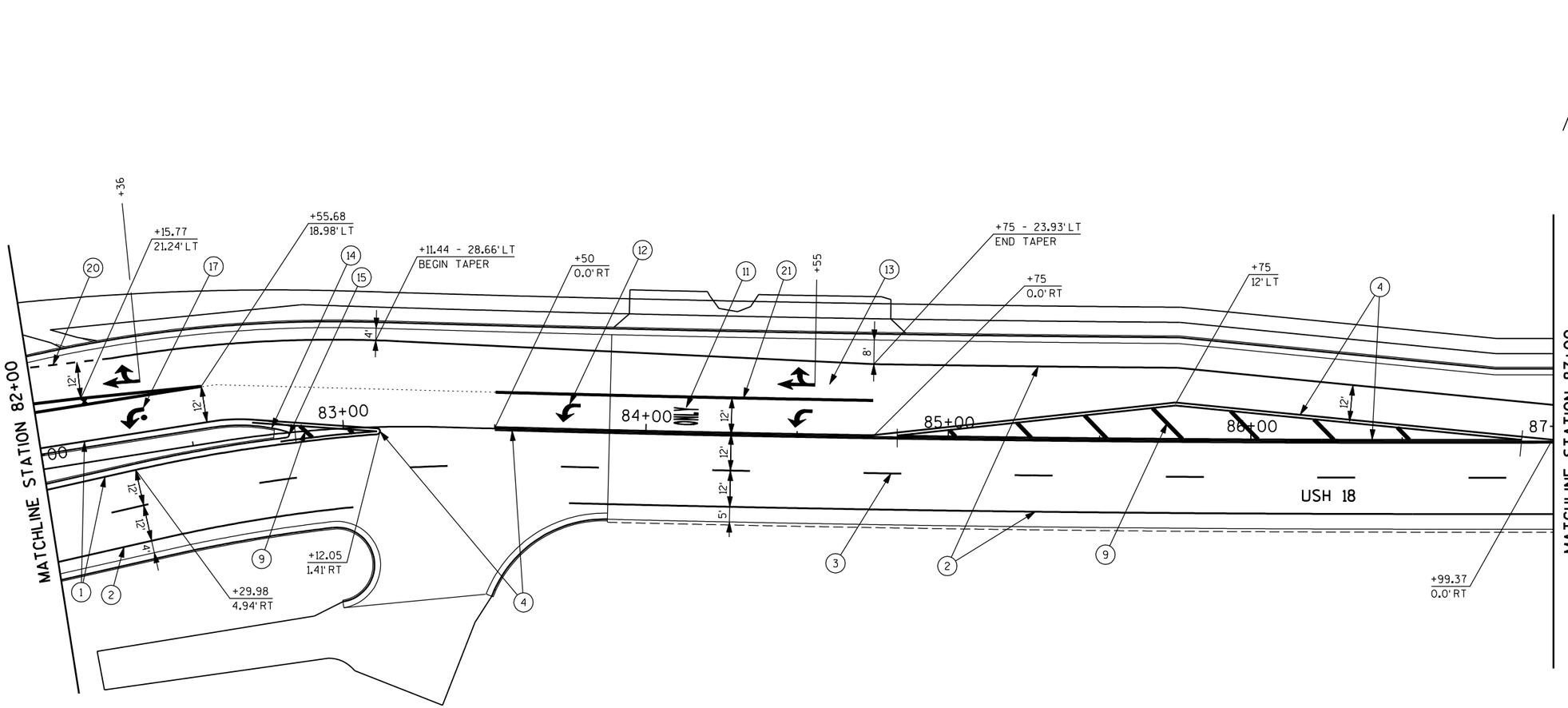
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, 37.5' SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3' LINE, 12' SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH (WHITE)
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD
12. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 1
17. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2R
18. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS 3R
19. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
20. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 3' SKIP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
22. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE), (6' LINE, 3' SKIP)
23. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE), (2' LINE, 2' SKIP)
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 296	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_024513_pm.dgn
PLOT DATE : 7/15/2013 2:37:34 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

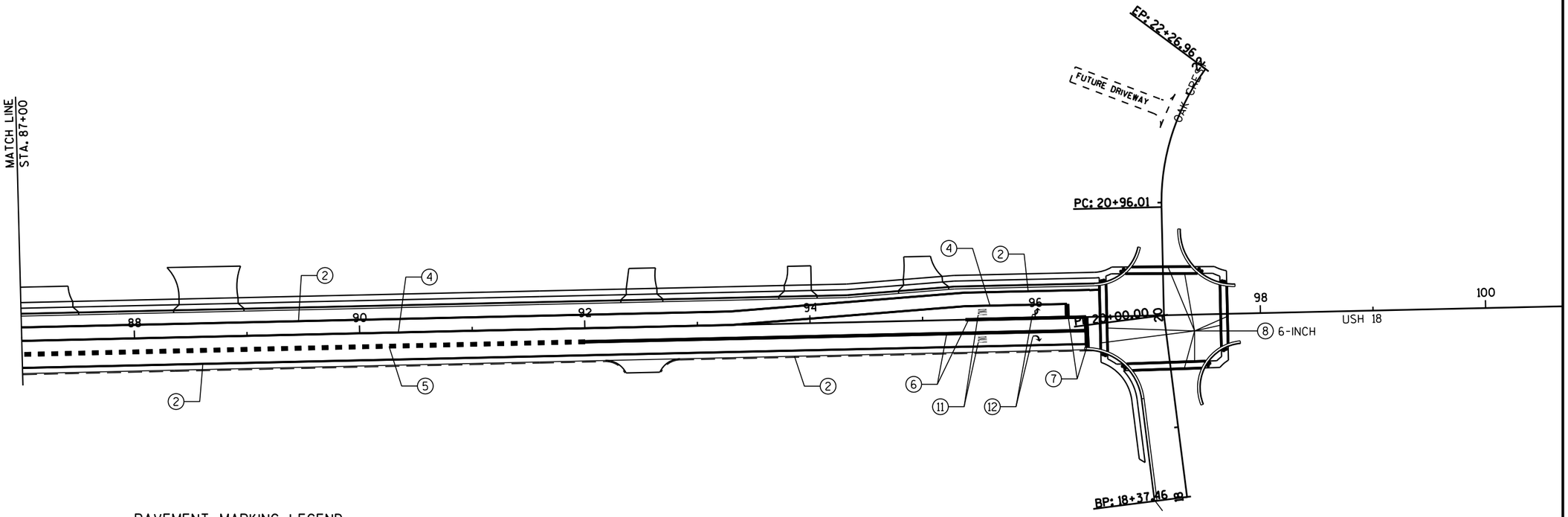
2



LEGEND

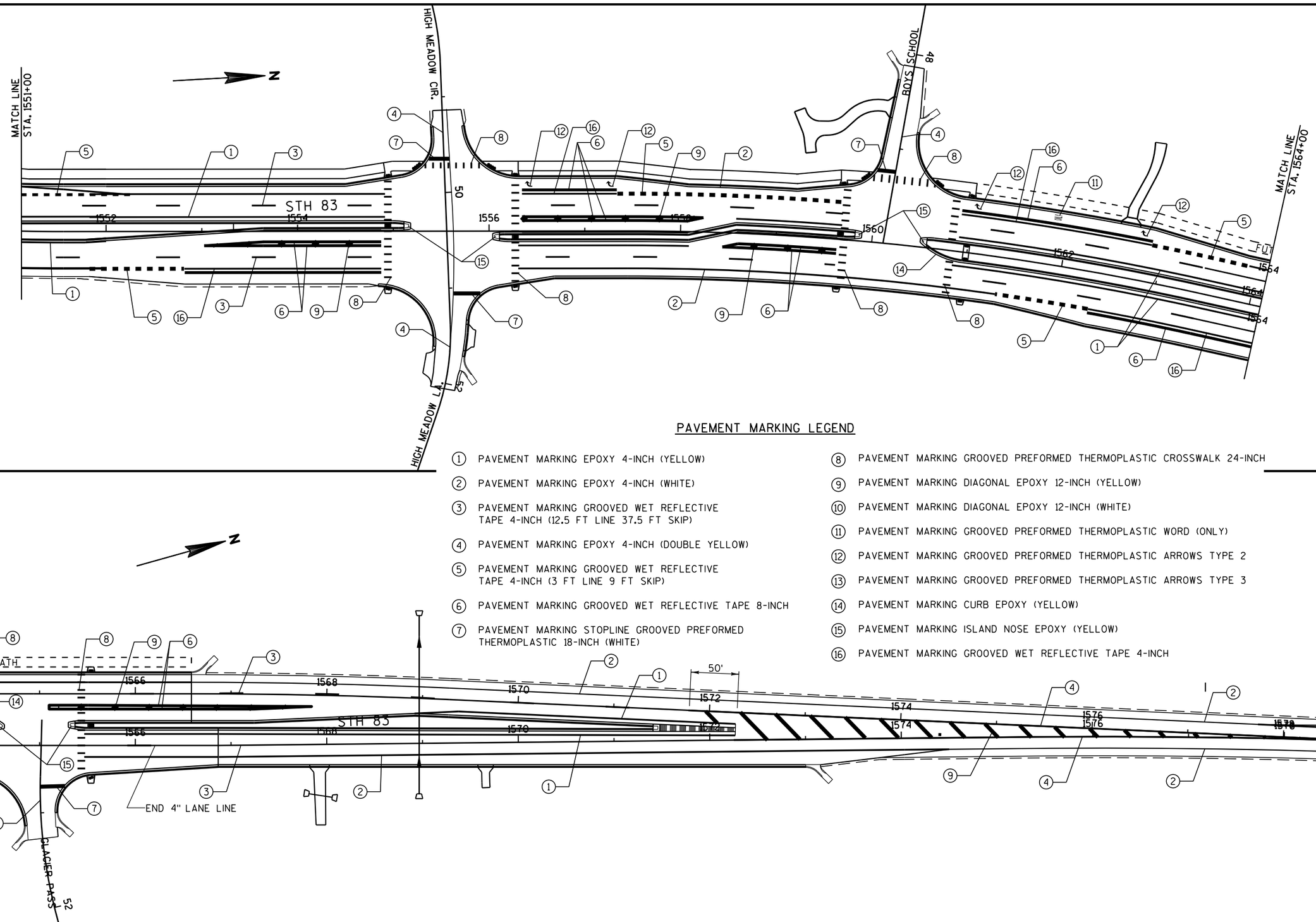
1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5' LINE, 37.5' SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3' LINE, 12' SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH (WHITE)
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD
12. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 1
17. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS TYPE 2R
18. PAVEMENT MARKING GROOVED PREFROMED THERMOPLASTIC ARROWS 3R
19. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 9' SKIP)
20. PAVEMENT MARKING EPOXY 4-INCH (WHITE), (3' LINE, 3' SKIP)
21. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE)
22. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH (WHITE), (6' LINE, 3' SKIP)
23. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE), (2' LINE, 2' SKIP)
24. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

2



PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5 FT LINE 37.5 FT SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH
7. PAVEMENT MARKING STOPLINE GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD (ONLY)
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

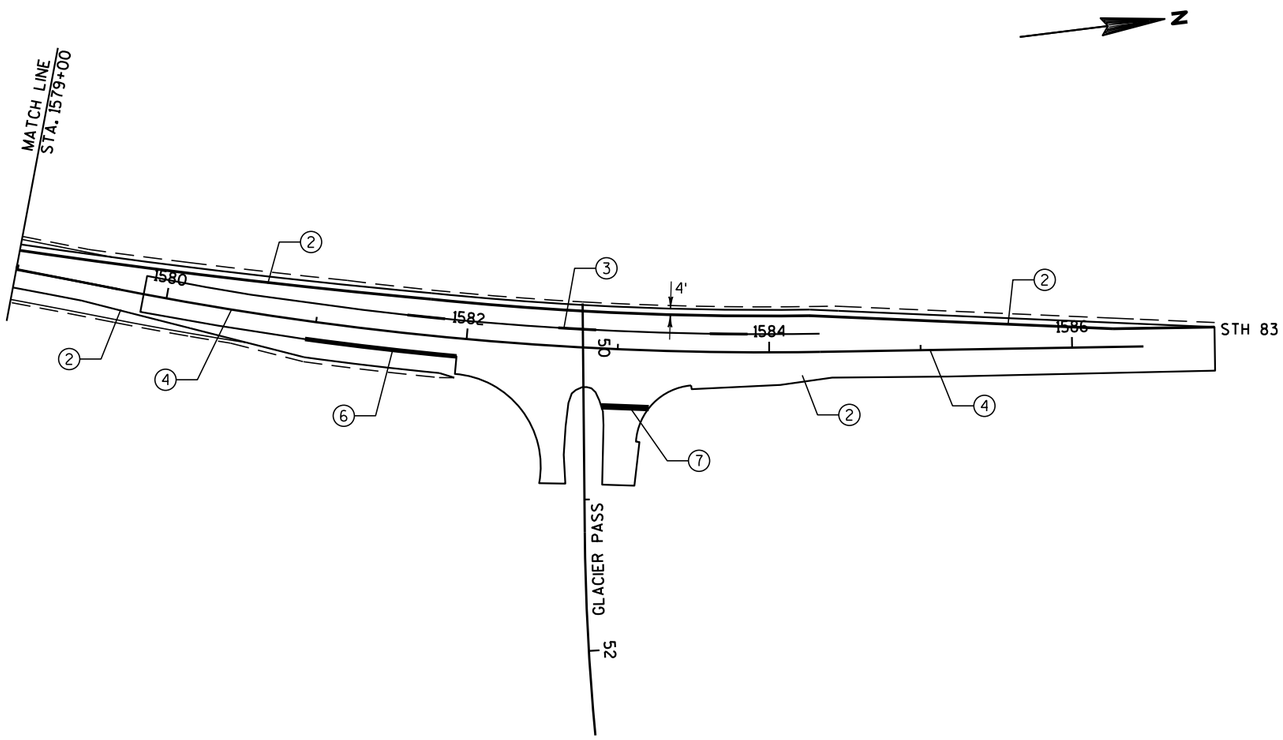


PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5 FT LINE 37.5 FT SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH
7. PAVEMENT MARKING STOPLINE GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD (ONLY)
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PAVEMENT MARKING	SHEET 299 E

2

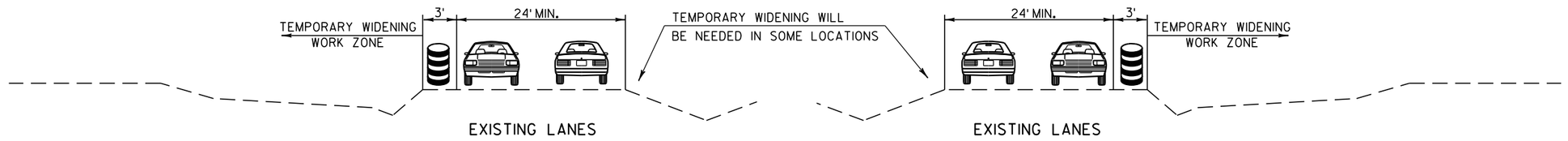


PAVEMENT MARKING LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (12.5 FT LINE 37.5 FT SKIP)
4. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
5. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH
7. PAVEMENT MARKING STOPLINE GROOVED PREFORMED THERMOPLASTIC 18-INCH (WHITE)
8. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC CROSSWALK 24-INCH
9. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
11. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORD (ONLY)
12. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
13. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3
14. PAVEMENT MARKING CURB EPOXY (YELLOW)
15. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
16. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH

NOTE:
ESTABLISH NO PASSING ZONE PER SPAC.

2



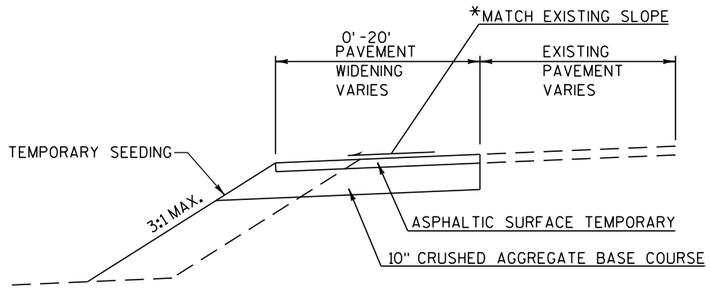
TYPICAL STAGE 1 TRAFFIC

STA. 619+00 TO STA. 626+00
STA. 1508+00 TO STA. 1531+00
STA. 1565+00 TO STA. 1578+00

NOTE:
STATIONS OVERLAP
OR GAP IN CROSSOVER AREAS

TYPICAL STAGE 1 TRAFFIC

STA. 634+00 TO STA. 643+50
STA. 1459+00 TO STA. 1467+00

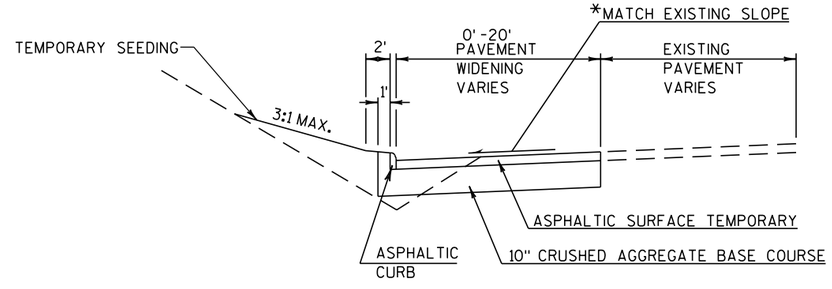


TYPICAL TEMPORARY WIDENING

STA. 634+00 TO STA. 643+50, RT.
STA. 1459+00 TO STA. 1467+00, RT.
STA. 1516+25 TO STA. 1531+00, LT.
STA. 1566+00 TO STA. 1578+00, LT.

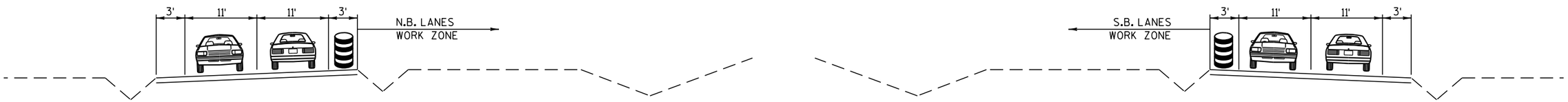
*THE EXACT LOCATION AND GRADES SHALL BE DETERMINED IN THE FIELD BASED ON SITE CONDITIONS.

(STAGE 1 TRAFFIC CONTROL)



TYPICAL TEMPORARY WIDENING

STA. 619+00 TO STA. 626+00, LT.
STA. 1508+00 TO STA. 1515+50, LT.



TYPICAL STAGE 2 TRAFFIC

STA. 1492+00 TO STA. 1533+00
STA. 1551+00 TO STA. 1578+00

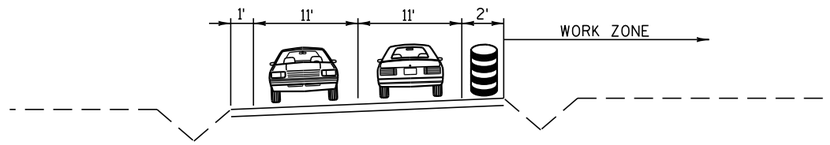
TYPICAL STAGE 2 TRAFFIC

STA. 1459+00 TO STA. 1484+00

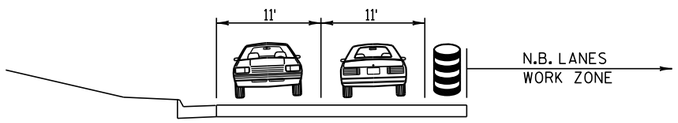
(STAGE 2 TRAFFIC CONTROL)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL - CONSTRUCTION STAGING	SHEET 301	E

2



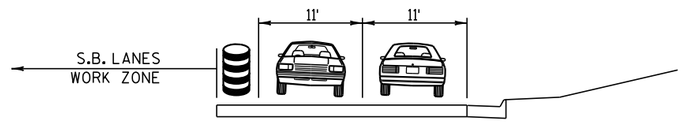
TYPICAL STAGE 3 TRAFFIC
STA. 634+50 TO STA. 643+00



FINISHED S. B. LANE

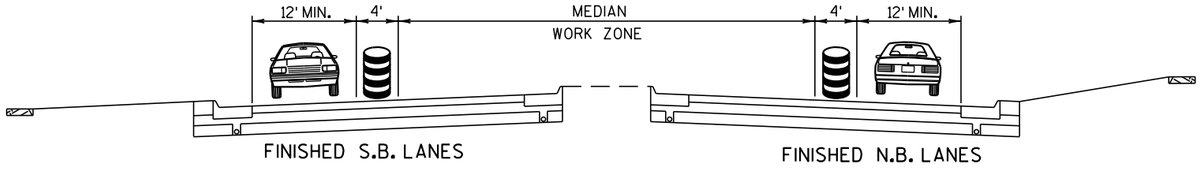
TYPICAL STAGE 3 TRAFFIC
STA. 1459+00 TO STA. 1484+00

(STAGE 3 TRAFFIC CONTROL)



FINISHED N. B. LANE

TYPICAL STAGE 3 TRAFFIC
STA. 1492+00 TO STA. 1533+00
STA. 1551+00 TO STA. 1578+00



TYPICAL STAGE 4 TRAFFIC
STA. 1484+00 TO STA. 1490+00 WORK ZONE

(STAGE 4 TRAFFIC CONTROL)

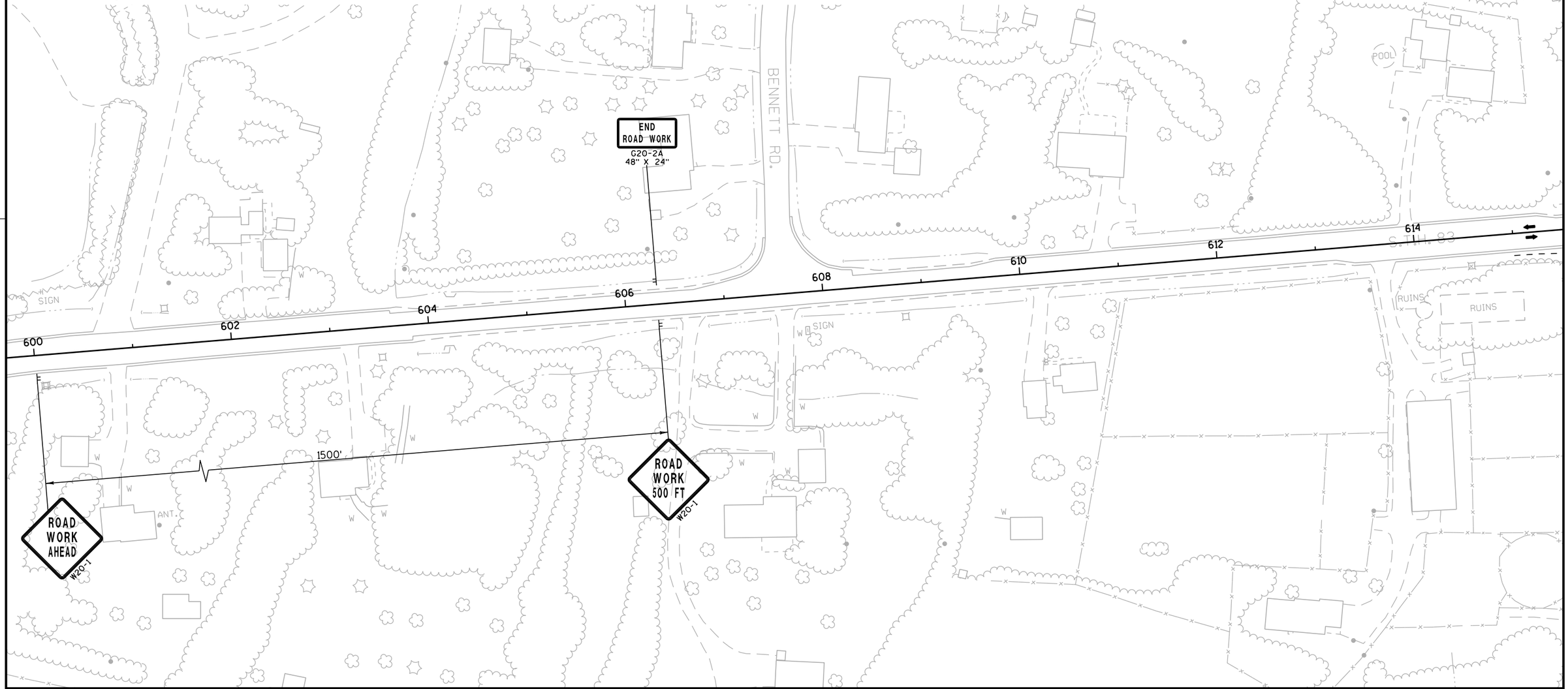
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)



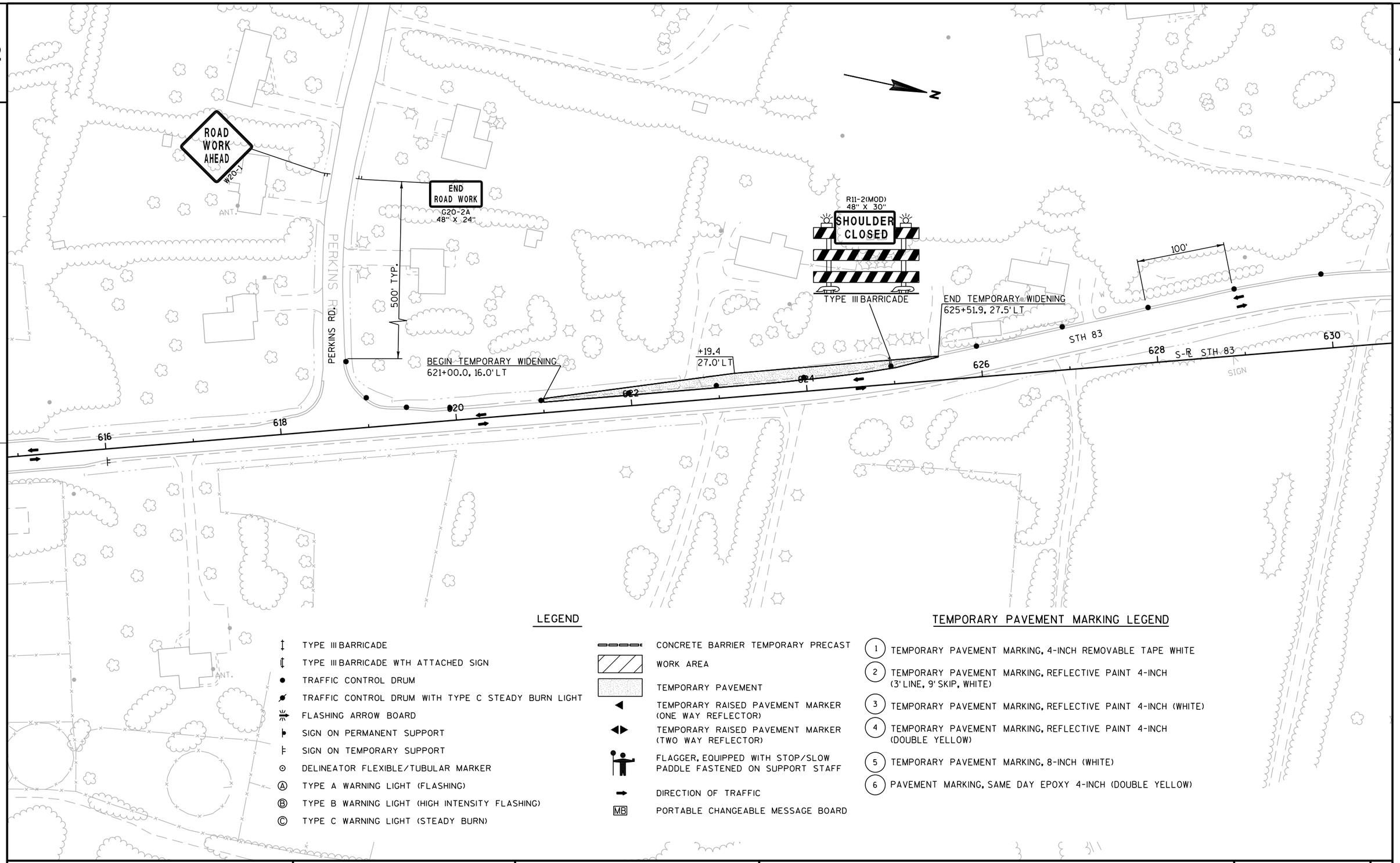
2

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 303	E

FILE NAME : J:\projects\d2_13301883\026000_S1.dgn PLOT DATE : 30-JUL-2013 17:02 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2



LEGEND

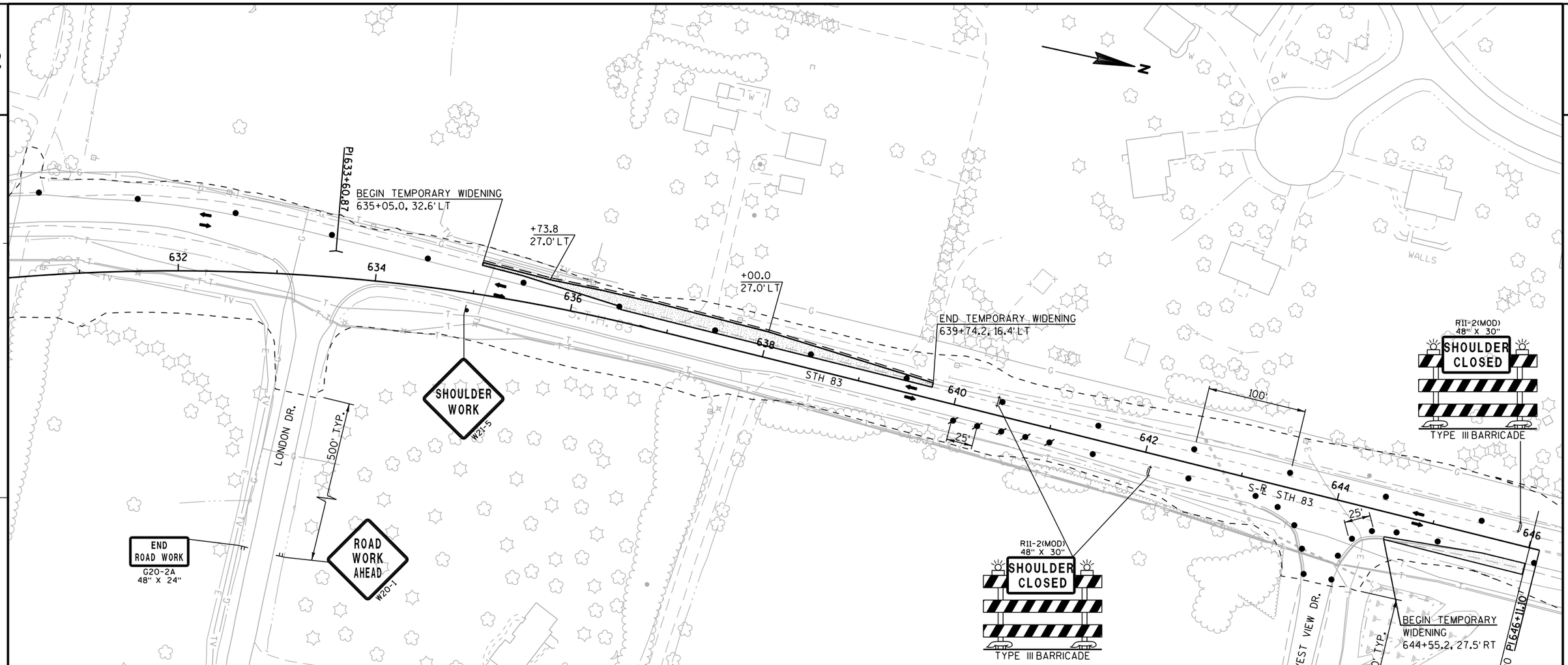
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 304	E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

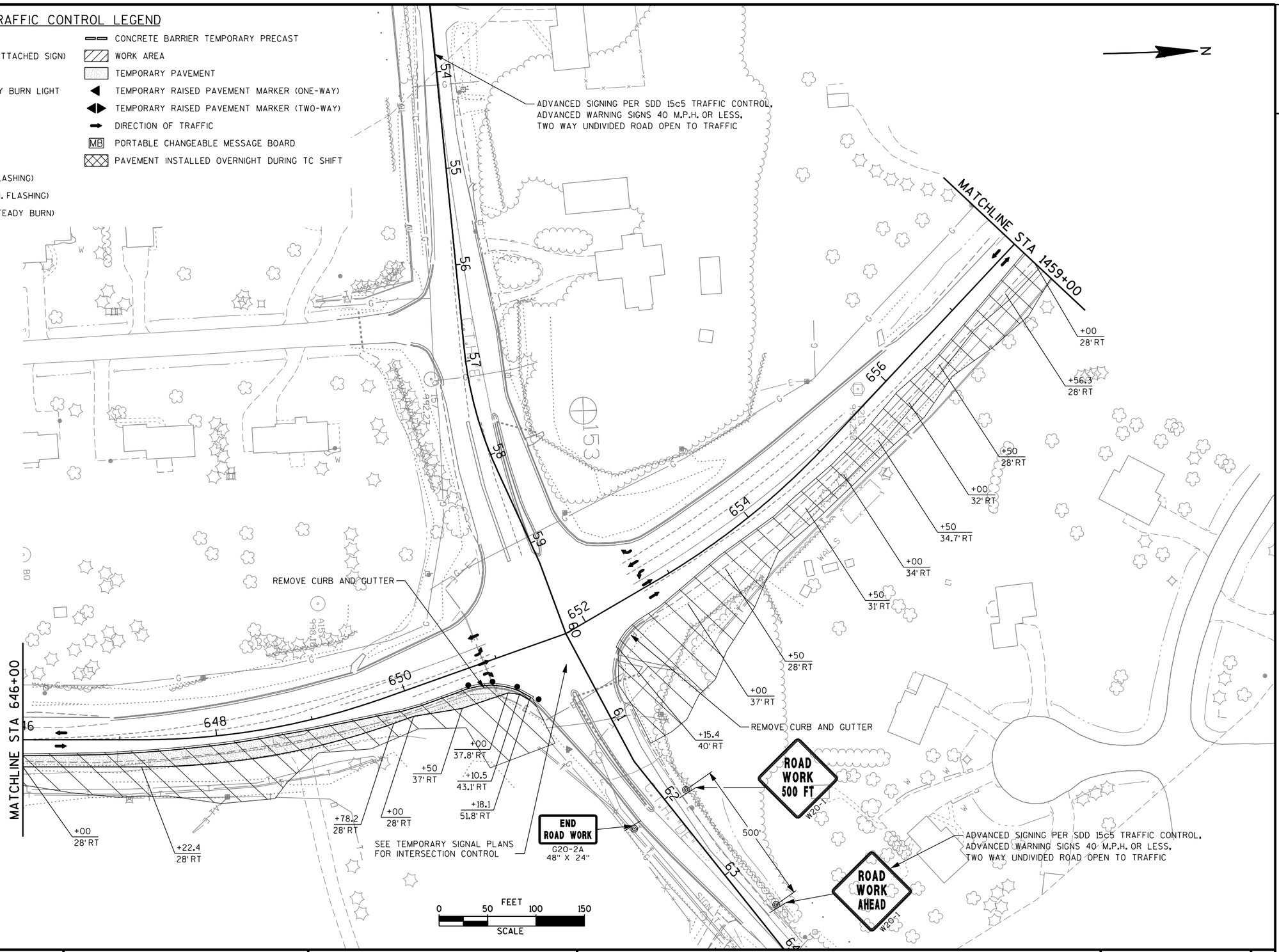
TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 305 E

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 306	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\CADD\Sheets\p_026001_s1.dgn
PLOT DATE : 7/31/2013 7:49:52 AM PLOT BY : untitled Pdf_bw_HS.plt PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 100.0000 FT / IN.
WISDOT/CADDS SHEET 42

2

FOOTBRIDGE

DAVIES DR.

N

POOL

P.I.1469+78.73

100'

1460 1462 1464 1466 1468 1470 1472 1474

C.T.H. 83

R STH 83

STH 83

SIGN

+00.0
28.0' RT

+49.8
19.5' RT

+44.8
19.8' RT

+30.8
21.4' RT

+95.8
21.5' RT

+38.8
34.0' RT

P.I.1458+56.27

MATCHLINE
STA. 1459+00

END TEMPORARY WIDENING
1467+49.0, 24.0' RT

BEGIN TEMPORARY WIDENING
1472+78.8, 31.2' RT

R11-2(MOD)
48" X 30"
SHOULDER CLOSED
TYPE III BARRICADE

R11-2(MOD)
48" X 30"
SHOULDER CLOSED
TYPE III BARRICADE

RUINS

W

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 307	E

2

ROAD WORK AHEAD W20-1

500' TYP.

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

PORTHAMEL CT.

C.T.H. "G" CTH G

POOL

GRAVE STONE

1474 1476 1478 1480 1482 1484 1486 1488

℄ STH 83

STH 83

S.T.H. 83

25'

50'

100'

+53.0 32.8' RT

END TEMPORARY WIDENING 1475+95.3, 31.0' RT

RUINS

FIRESTATION

PI 1485+63.20

JERUSALEM CEMETERY

IBRANDYBROOK RD.

CEMETERY

N

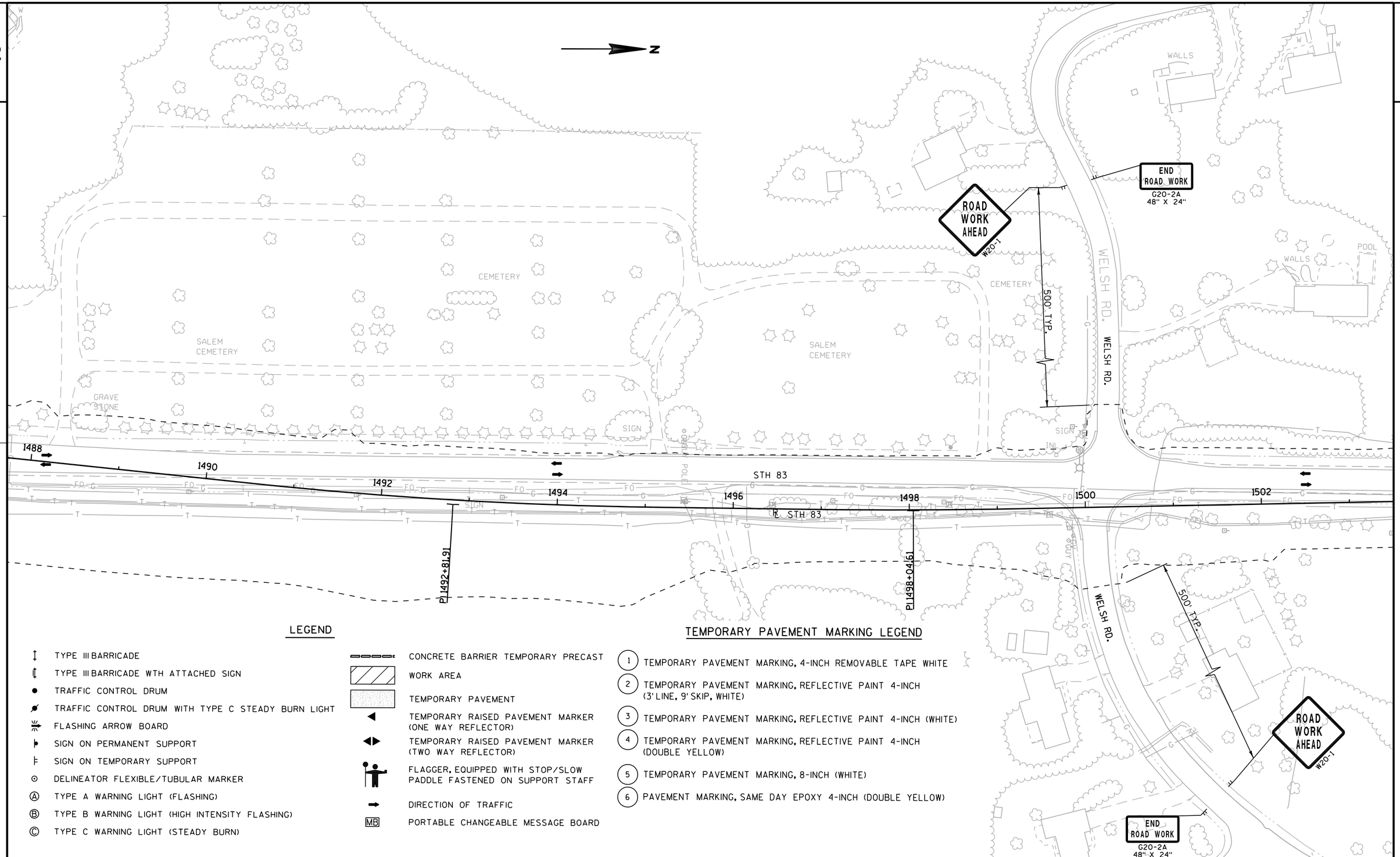
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 308 E



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 309 E

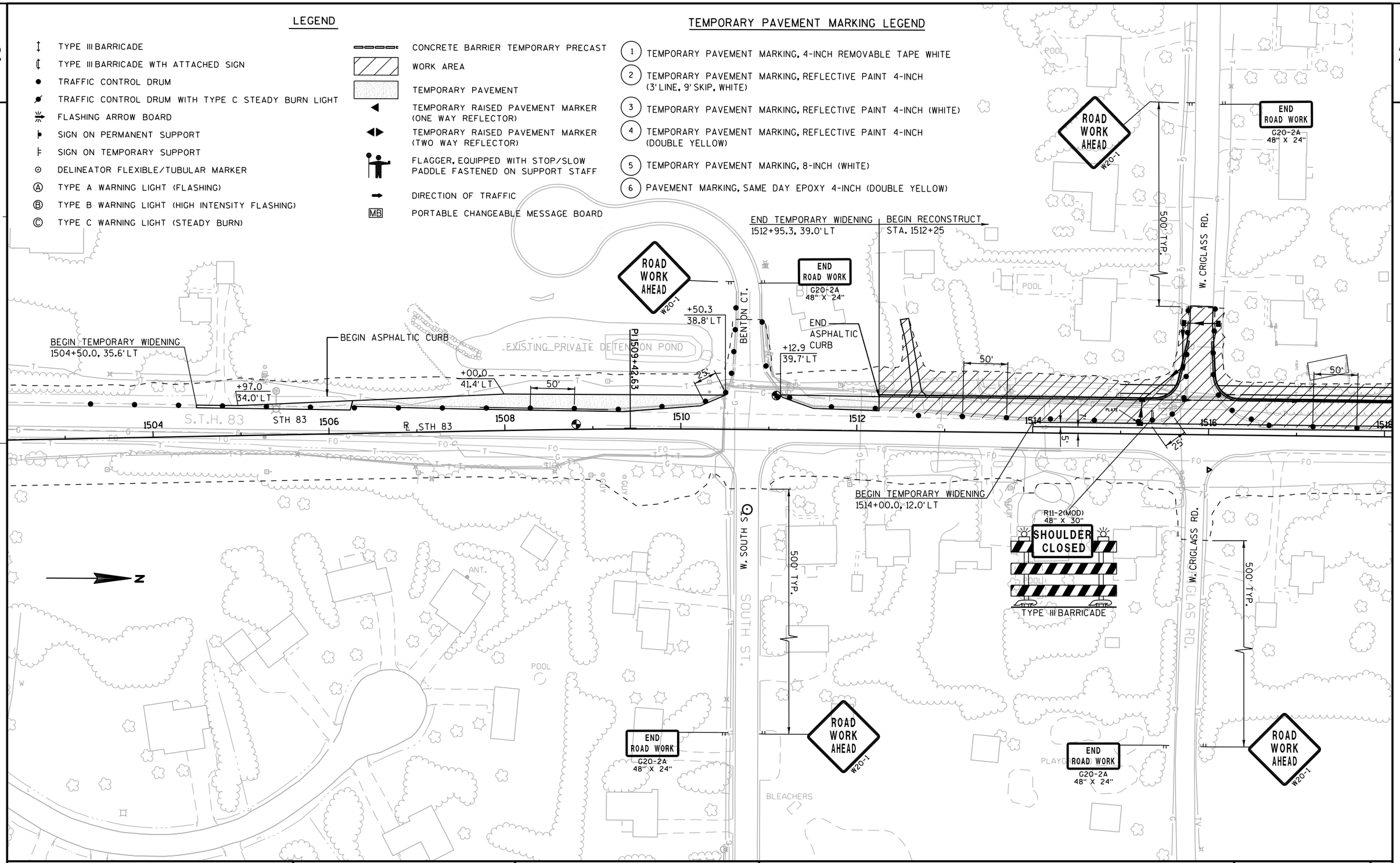
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

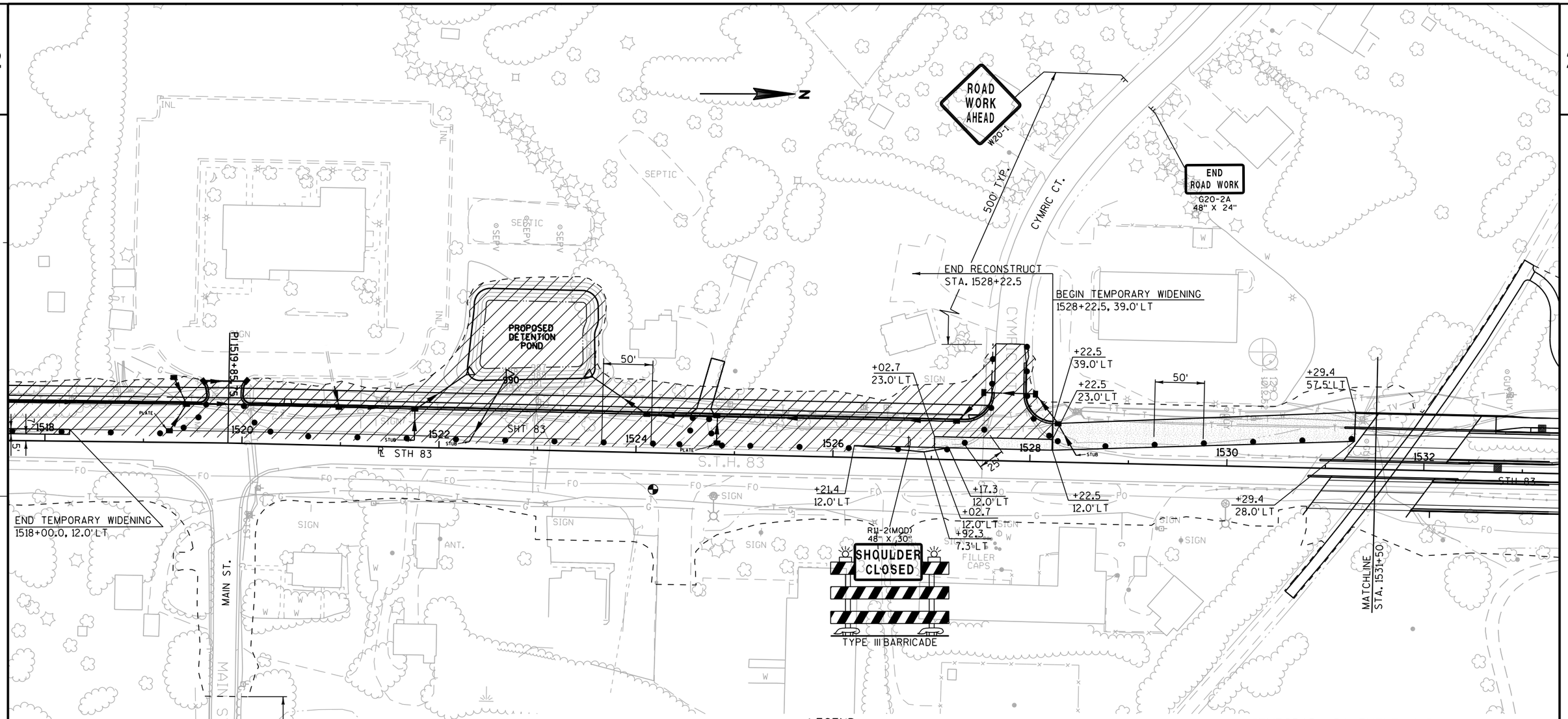
TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 310 E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 311 E

2

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3' LINE, 3' SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH

ROAD WORK AHEAD W20-1 — 500'

ROAD WORK 500 FT W20-1 — 250'

ADVANCED SIGNING PER SDD 15c5 TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC

END ROAD WORK C20-2A 48" X 24"

PLACE THIS SIGN APPROXIMATELY 250' AFTER THE END OF CONSTRUCTION LIMITS

SEE STAGE 2 DRAWINGS FOR TEMPORARY PAVEMENT MARKINGS

TEMPORARY CONCRETE BARRIER, STAKED

REMOVE GUARDRAIL AFTER TEMPORARY SHORING AND TEMPORARY CONCRETE BARRIER ARE INSTALLED

CRASH CUSHIONS TEMPORARY

REMOVE ISLAND AND CONSTRUCT TEMPORARY PAVEMENT

CRASH CUSHIONS TEMPORARY

MATCHLINE STA 1531+00

MATCHLINE STA 1546+00

MATCHLINE STA 82+50

CRASH CUSHIONS TEMPORARY

TEMPORARY CONCRETE BARRIER, STAKED INSTALL TIGHT AGAINST TEMPORARY SHORING

TEMPORARY STRIPE 11 FOOT LANES FROM EAST EDGE LINE, STA 1532+00 TO THE PICK 'N' SAVE ENTRANCE

MATCH EXISTING PAVEMENT MARKING ON BRIDGE AT STA 1532+00

TEMPORARY CONCRETE BARRIER, STAKED SEE B-67-317 PLANS FOR LOCATION

MATCH EXISTING PAVEMENT MARKING AT PICK 'N' SAVE ENTRANCE

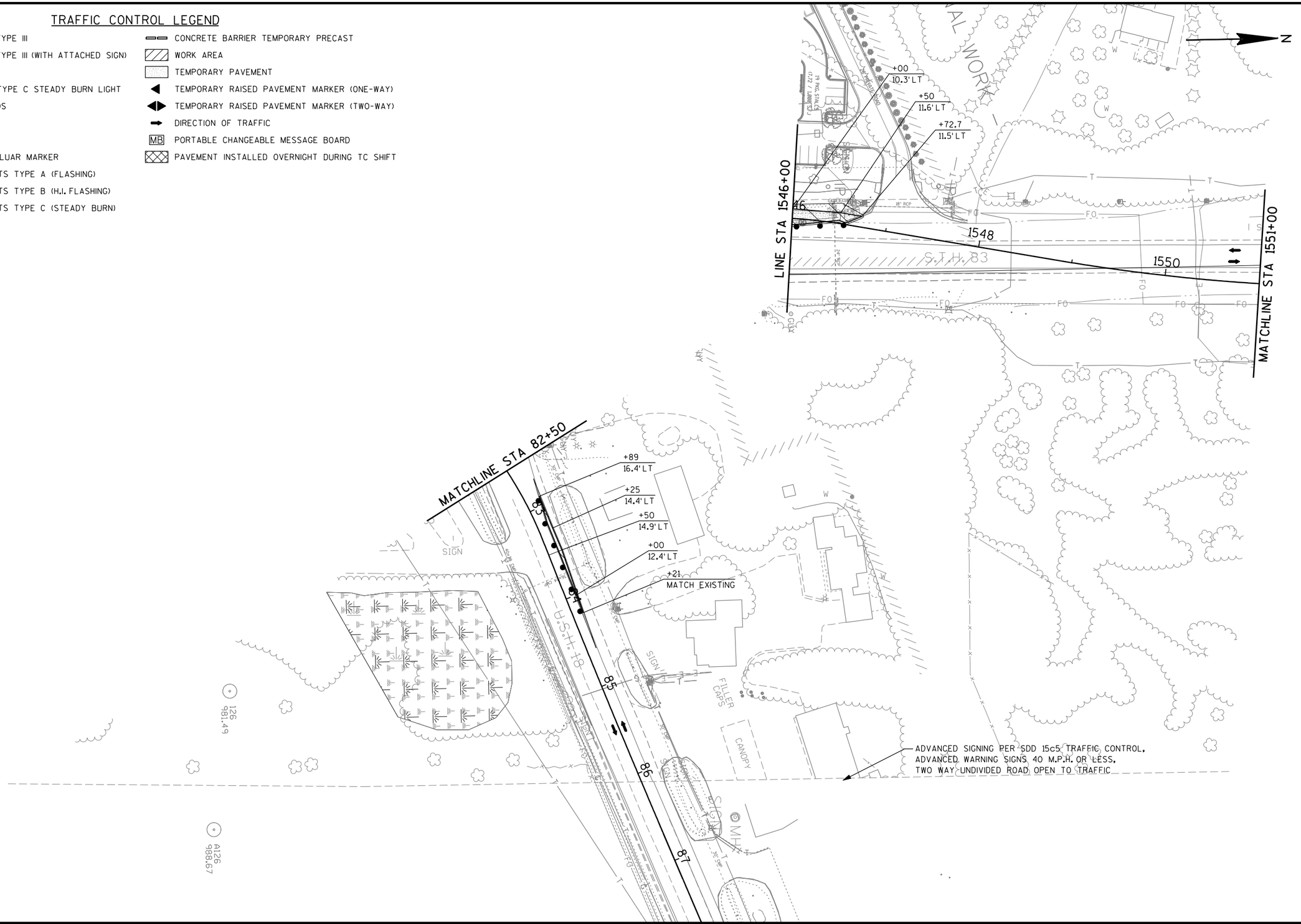
0 50 100 150 FEET

SCALE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 312	E

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\CADD\Sheets\p_026003_s1.dgn
PLOT DATE : 7/31/2013 8:04:43 AM PLOT BY : untitled
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 100.0000 FT / IN.
WISDOT/CADDS SHEET 42

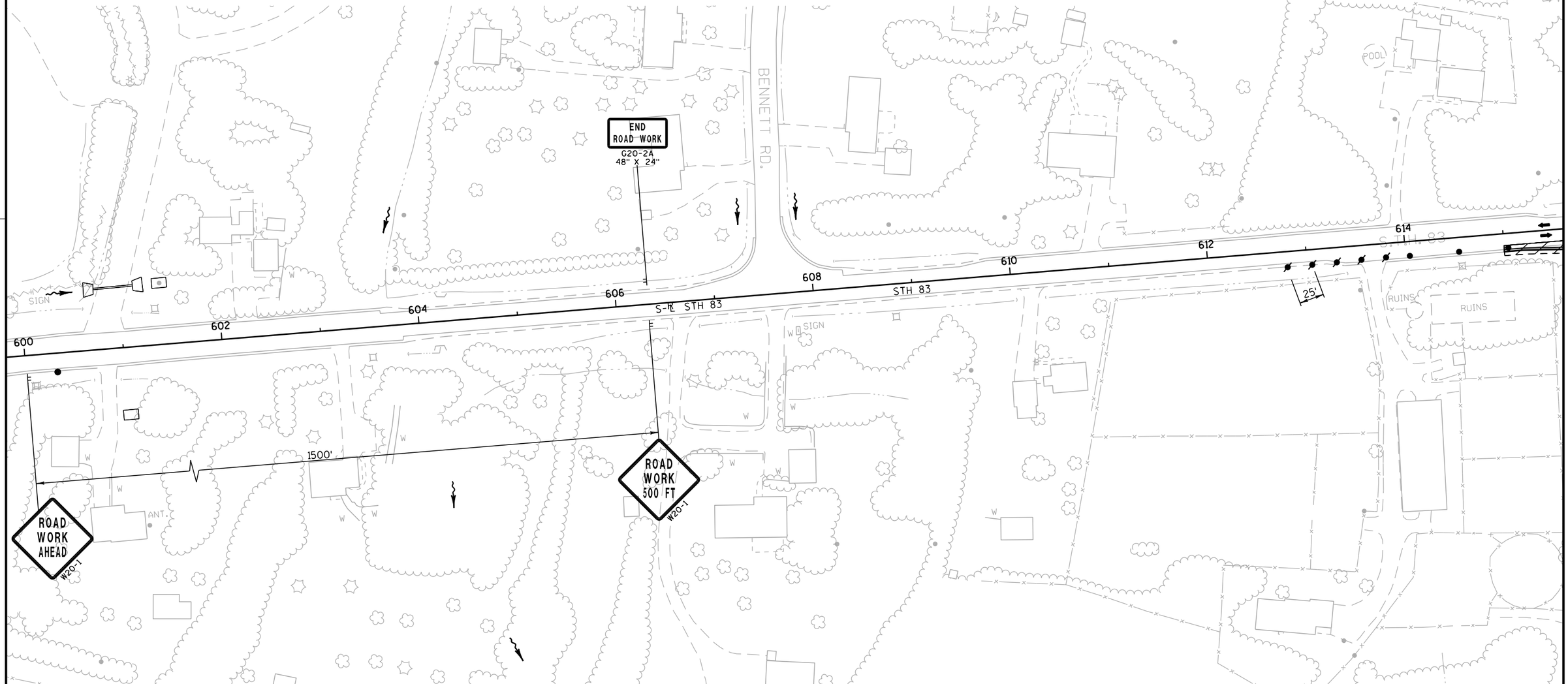
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 314	E

FILE NAME : J:\projects\d2_13301883\026100_S2.dgn PLOT DATE : 30-JUL-2013 17:06 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

ROAD WORK AHEAD
W20-1

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

500' TYP.

PERKINS RD.

ANT.

50'

100'

STH 83

S-R STH 83

STUB PIPE AND PLATE

+00

616 618 620 622 624 626 628 630

+16.8 28' RT

+56.8 28' RT

+66.8 12' RT

+74.1 12' RT

W01-4L

W06-3

DO NOT PASS
R4-1
24" X 30"

R11-2
48" X 30"
ROAD CLOSED
TYPE III BARRICADE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)

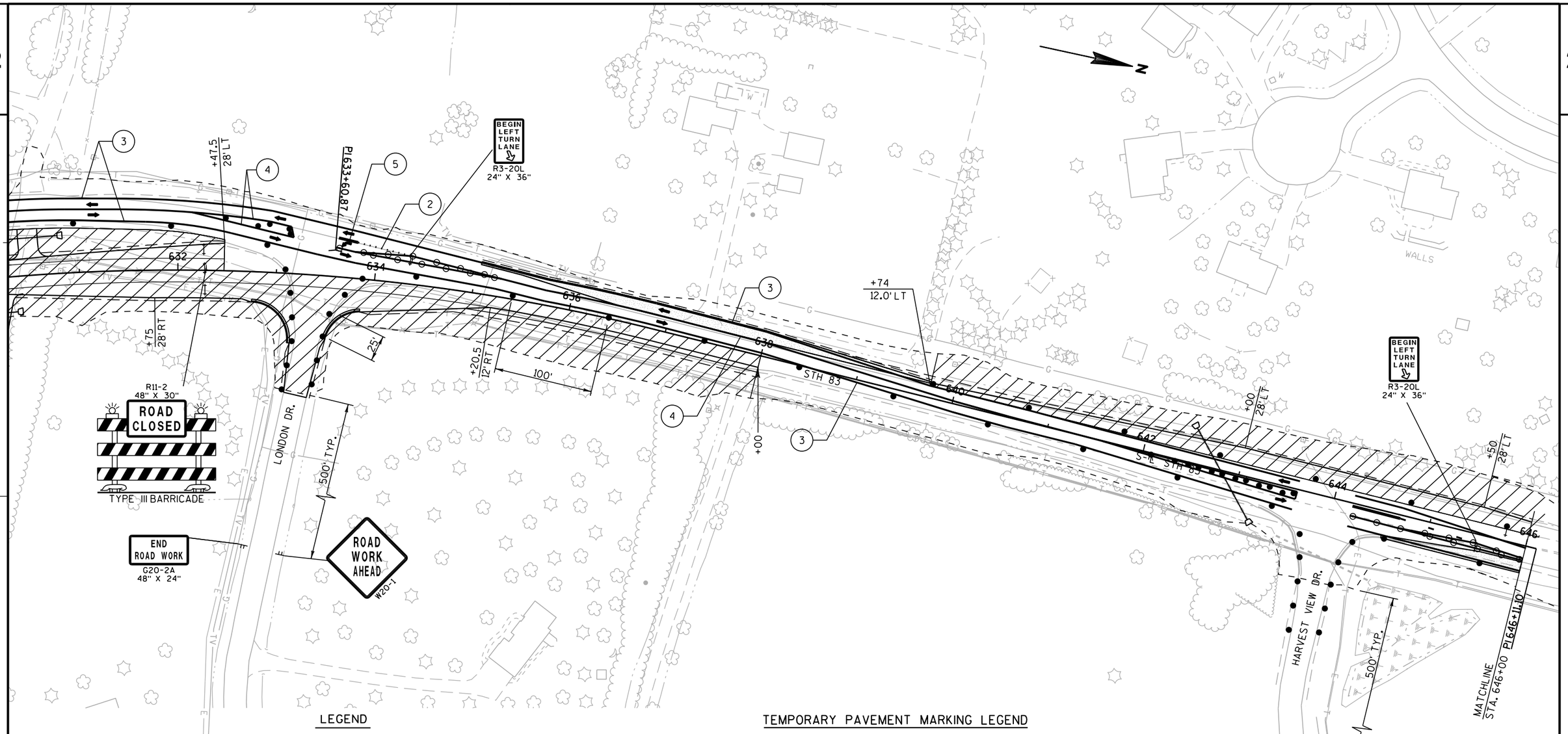
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 315	E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET E

FILE NAME : J:\projects\d2_13301883\026102_S2.DGN PLOT DATE : 30-JUL-2013 17:06 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

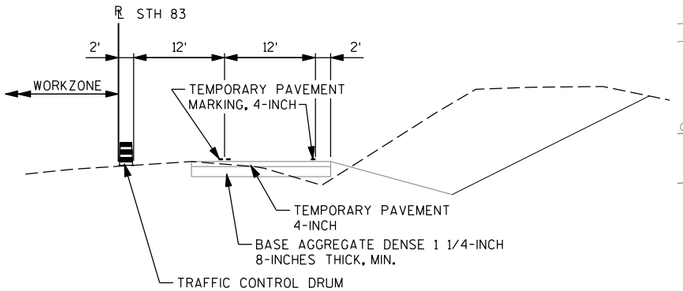
TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT

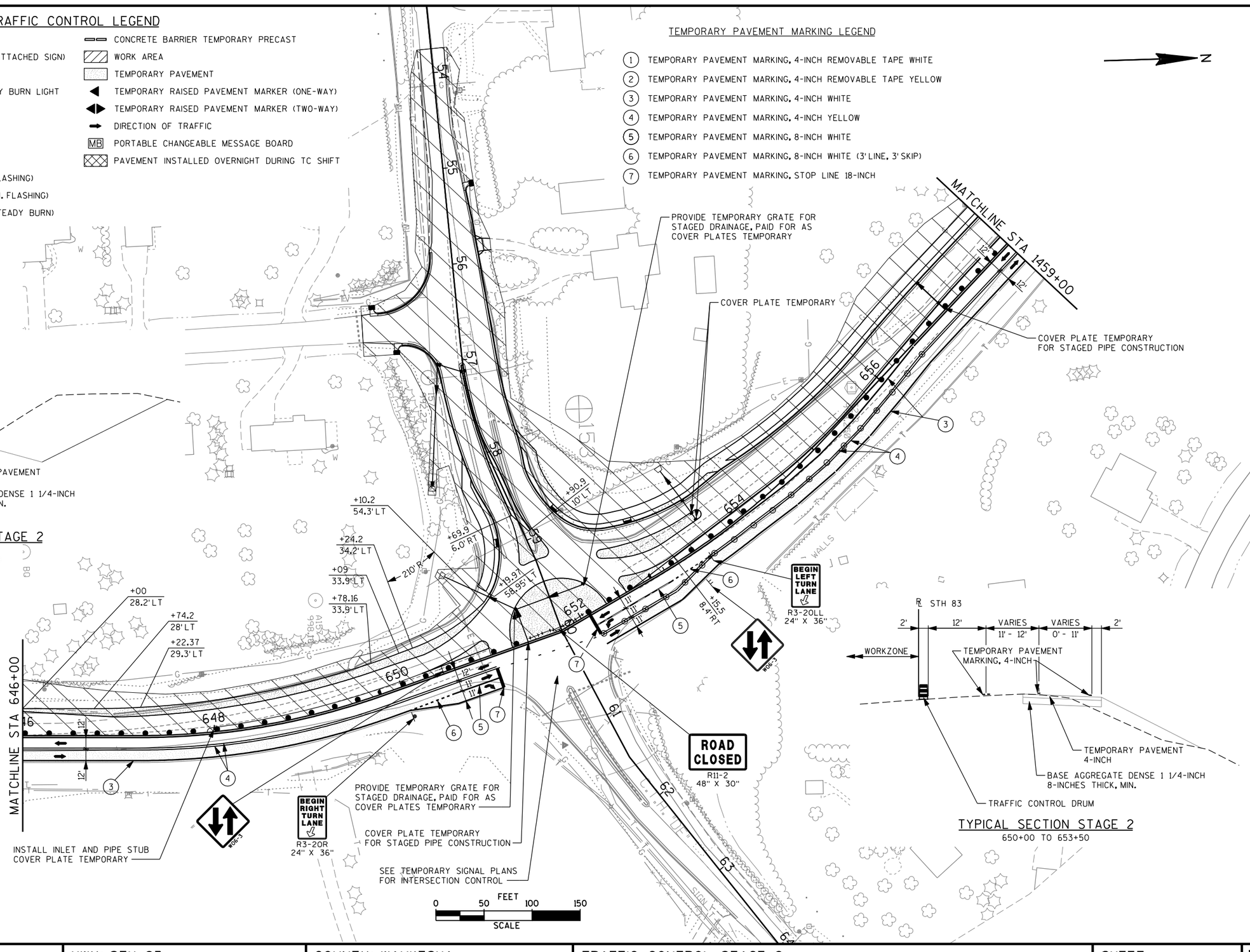
TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3' LINE, 3' SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH

N



TYPICAL SECTION STAGE 2
646+00 TO 650+00
653+50 TO 1459+00



℄ STH 83
2' 12' VARIES 11' - 12' VARIES 0' - 11' 2'
WORKZONE
TEMPORARY PAVEMENT MARKING, 4-INCH
TEMPORARY PAVEMENT 4-INCH
BASE AGGREGATE DENSE 1 1/4-INCH 8-INCHES THICK, MIN.
TRAFFIC CONTROL DRUM

TYPICAL SECTION STAGE 2
650+00 TO 653+50

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 317	E

2

R11-2
48" X 30"
LANE CLOSED
TYPE III BARRICADE

CONSTRUCT POND PRIOR TO INSTALLING STORM SEWER

PROPOSED DETENTION POND

CONSTRUCT POND PRIOR TO INSTALLING STORM SEWER

PROPOSED SHALLOW DETENTION POND

FOOTBRIDGE

DAVIES DR.

POOL

STH 83

STUB LATERAL AND PLATE

PL1458+56.27

MATCHLINE
STA. 1459+00

PL1469+78.73

W006-3
DO NOT PASS
R4-1
24" X 30"

COVER PLATE TEMPORARY

R11-2
48" X 30"
LANE CLOSED
TYPE III BARRICADE

RUINS

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 318 E

2

ROAD WORK AHEAD W20-1

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

500' TYP.

ROAD WORK AHEAD W20-1

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

SEE SPECIAL PROVISIONS FOR REQUIREMENTS ON CONSTRUCTING CTH G

ONCE EXISTING INTERSECTION IS LOWERED, PROVIDE ACCESS TO PORTHAMEL AND THESE DRIVEWAYS VIA CTH G AND THE SOUTHBOUND GRADE (ONCE GRAVELED). SEE SPECIAL PROVISIONS.

STOP R1-1 30" X 30"

PLACE TEMPORARY ASPHALT FOR STAGE 3B TRAFFIC.

DO NOT PASS W06-3 R4-1 24" X 30"

PLACE TEMPORARY ASPHALT FOR STAGE 3B TRAFFIC.

BEGIN LEFT TURN LANE R3-20L 24" X 36"

COVER PLATE TEMPORARY

PORTHAMEL CT.

500' TYP.

COVER PLATE TEMPORARY

TEMPORARY ACCESS

100'

12'

STH 83

STUB LATERAL AND PLATE

+53

+31.4 12' LT

+27.2 5' LT

+35.9 12' LT

COVER PLATE TEMPORARY

+54

PI 1485+83.20

+25.2 1.9' LT

+64

+54 15.6' LT

+05

STUB LATERAL AND PLATE

BEGIN LEFT TURN LANE R3-20L 24" X 36"

RUINS

RUINS

POOL

JERUSALEM CEMETERY

R11-2 48" X 30" ROAD CLOSED TYPE III BARRICADE

BRANDYBROOK RD.

500' TYP.

+75.6 19.3' RT

+04 23' RT

PROPOSED DETENTION POND

EMERGENC

ROAD WORK AHEAD W20-1

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

ERY

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 319	E

2

N

CEMETERY

SALEM CEMETERY

CONSTRUCT TEMPORARY ASPHALT FOR STAGE 3 TRAFFIC

COVER PLATE TEMPORARY

+85.6 9.3' RT

+11.5 12' RT

+00

+11.5 23' RT

PROPOSED DETENTION POND

EMERGENCY SPILLWAY

SIGN

STH 83

PI 1492+81.37

PI 1498+04.61

CONSTRUCT POND PRIOR TO INSTALLING STORM SEWER

100'

ROAD WORK AHEAD W20-1

500' TYP.

BEGIN LEFT TURN LANE R3-20L 24" X 36"

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

WELSH RD.

WALLS

POOL

+41.3 2' RT

+41.3 12' RT

+92.2 12' RT

+19

25'

R11-2 48" X 30" LANE CLOSED

TYPE III BARRICADE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 320	E

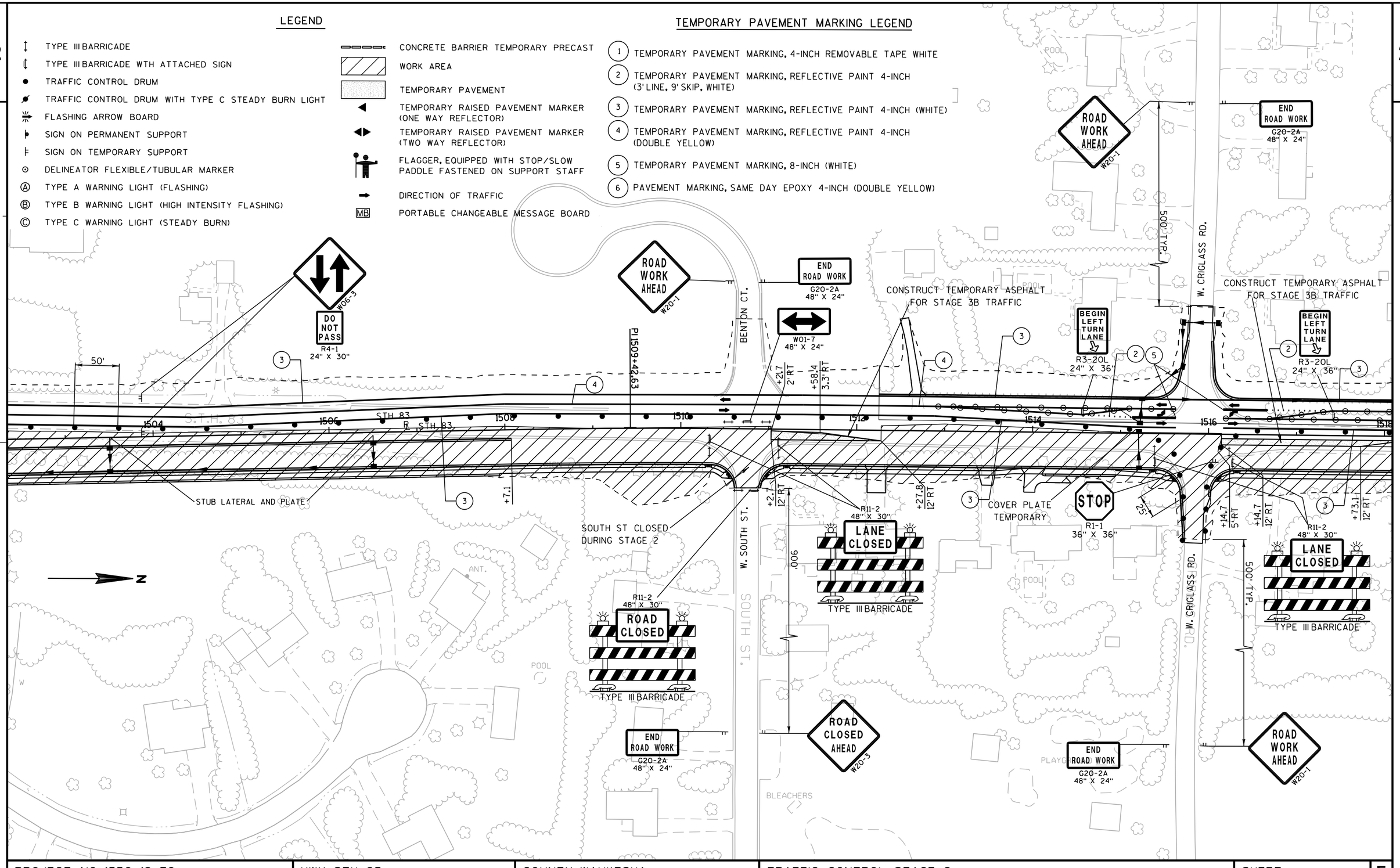
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

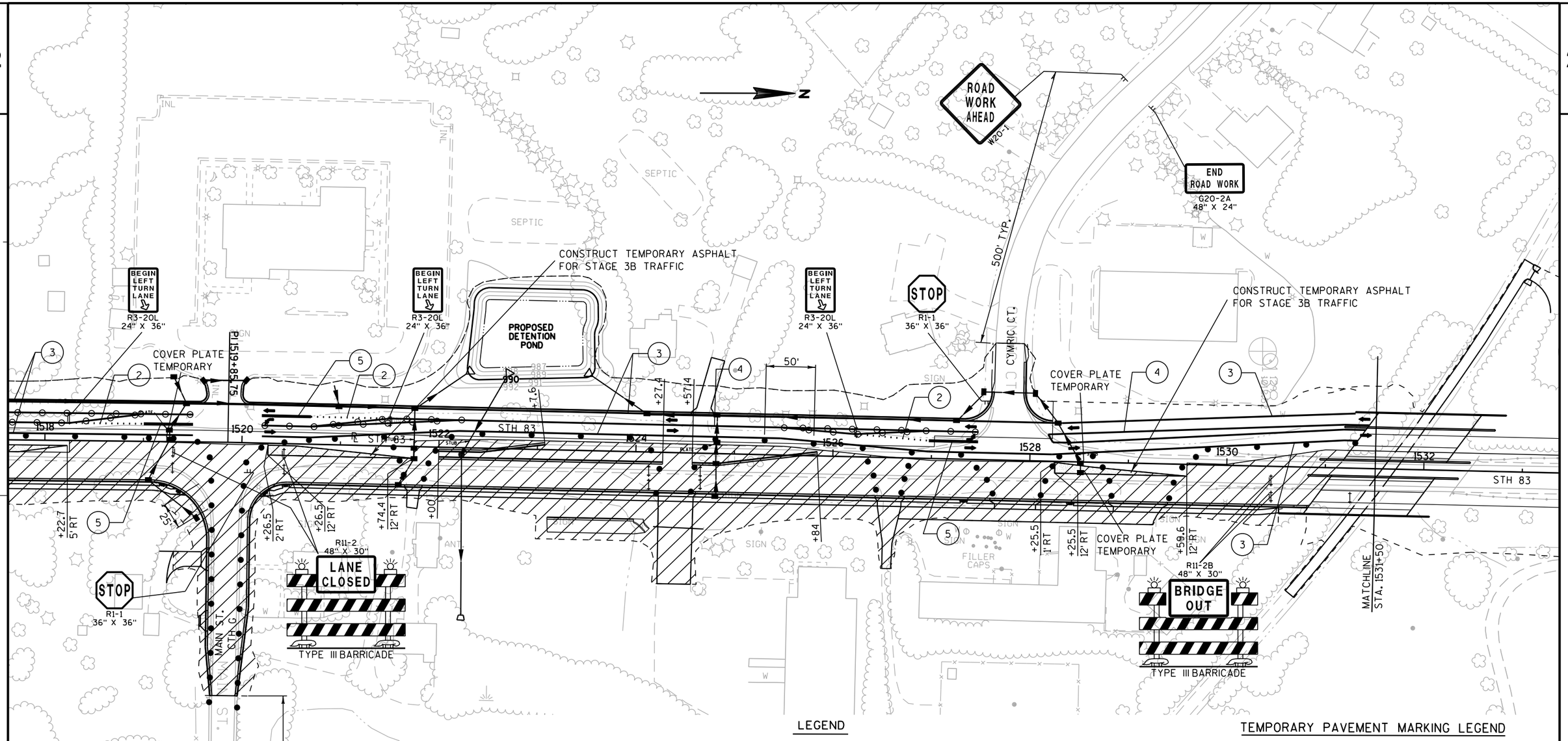
TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 321 E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 322	E

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT
- COVER PLATES TEMPORARY
- COVER PLATES TEMPORARY WITH UNDERDRAIN CONNECTION (PAID FOR AS COVER PLATES TEMPORARY)

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3' LINE, 3' SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH

PIPE UNDERDRAIN WRAPPED 6-INCH SPECIAL, FOR TEMPORARY DRAINAGE DURING STAGE 2 CONSTRUCTION, SEE CONSTRUCTION DETAILS FOR PLACEMENT

REMOVE TEMPORARY BARRIER WALL AND CRASH CUSHIONS AFTER SWITCH TO STAGE 2

TEMPORARY SHORING TO REMAIN IN PLACE DURING STAGE 2

CRASH CUSHIONS TEMPORARY INSTALLED DURING STAGE 1 CONSTRUCTION

STRIPE 12' LANES WITH 1' SHY TO TEMPORARY BARRIER WALL

STRIPE 12' LANE WITH 1' SHY TO BARRIER WALLS

CRASH CUSHIONS TEMPORARY AND BARRIER WALL INSTALLED DURING STAGE 1 CONSTRUCTION

STRIPE 11.5' LANE WITH 1' SHY TO BARRIER WALL AND TEMPORARY CONCRETE BARRIER SEE B-67-317 PLANS FOR CROSS SECTION

PIPE UNDERDRAIN WRAPPED 6-INCH SPECIAL, FOR TEMPORARY DRAINAGE DURING STAGE 2 CONSTRUCTION, SEE CONSTRUCTION DETAILS FOR PLACEMENT

INSTALL PIPE CROSSING OF STH 83 TRAFFIC LANES DURING NIGHT TIME HOURS UNDER FLAGGING OPERATIONS

BEGIN LEFT TURN LANE R3-20LL 24" X 36"

W106-3

MATCHLINE STA 1531+00

MATCHLINE STA 82+50

SEE BLOW UP

0 50 100 150 FEET SCALE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 323	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_026102_s2.dgn PLOT DATE : 9/13/2013 2:49:48 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 100.0000 FT / IN.

WISDOT/CADDS SHEET 42

2

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3'LINE, 3'SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH

N

PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT

USH 18

STH 83

+44.6
41'RT

+75.6 - 50.2'RT
CENTER - 50'R

+79.6 - 92.3'LT
CENTER - 50'R

+82.7
42.4'LT

+96.8
43.4'LT

+7.2 - 50.7'LT
CENTER - 50'R

+54.9 - 87.4'LT
CENTER - 50'R

+55.2
37.4'LT

+66.9
37.5'LT

+10.3
CENTER - 110'R

+37.3
28.6'RT

+40.3 - 78.5'RT
CENTER - 50'R

SLOPE INTERCEPT FOR
STAGE 2 CONST., TYP.

+24.3 - 43.2'LT
CENTER - 50'R

+70
35.4'LT

+55.7
38.3'RT

+74.7
37.6'RT

+76.4 - 87.6 RT
CENTER - 50'R

+12.5 - 47.4'RT
CENTER - 50'R

+27.9
39.5'RT

79+00

80+00

81+00

82+00

1540+00

1541+00

1542+00

1543+00

1544+00

1545+00

11'

10'

0 20 40 60 FEET
SCALE

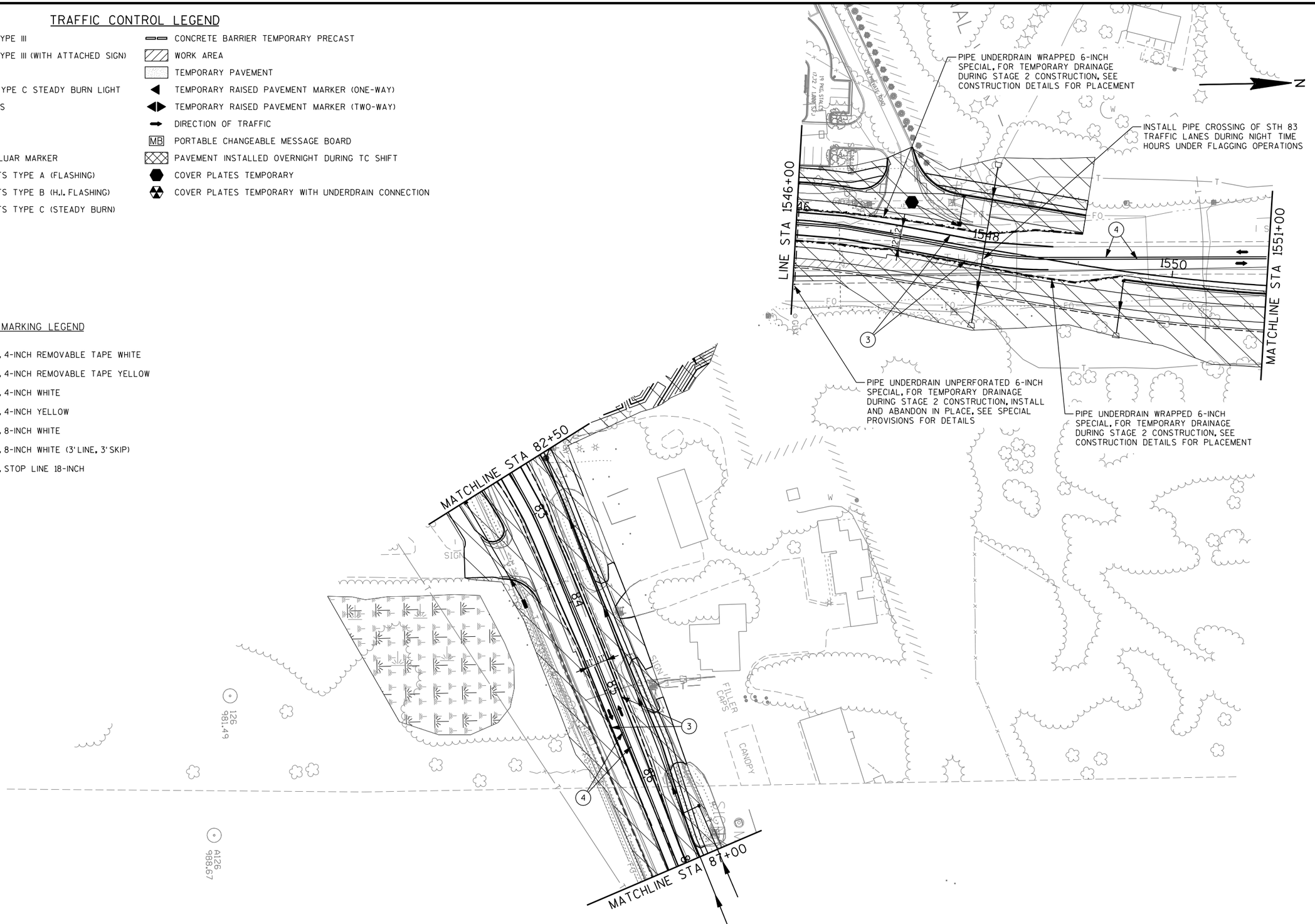
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 324	E

TRAFFIC CONTROL LEGEND

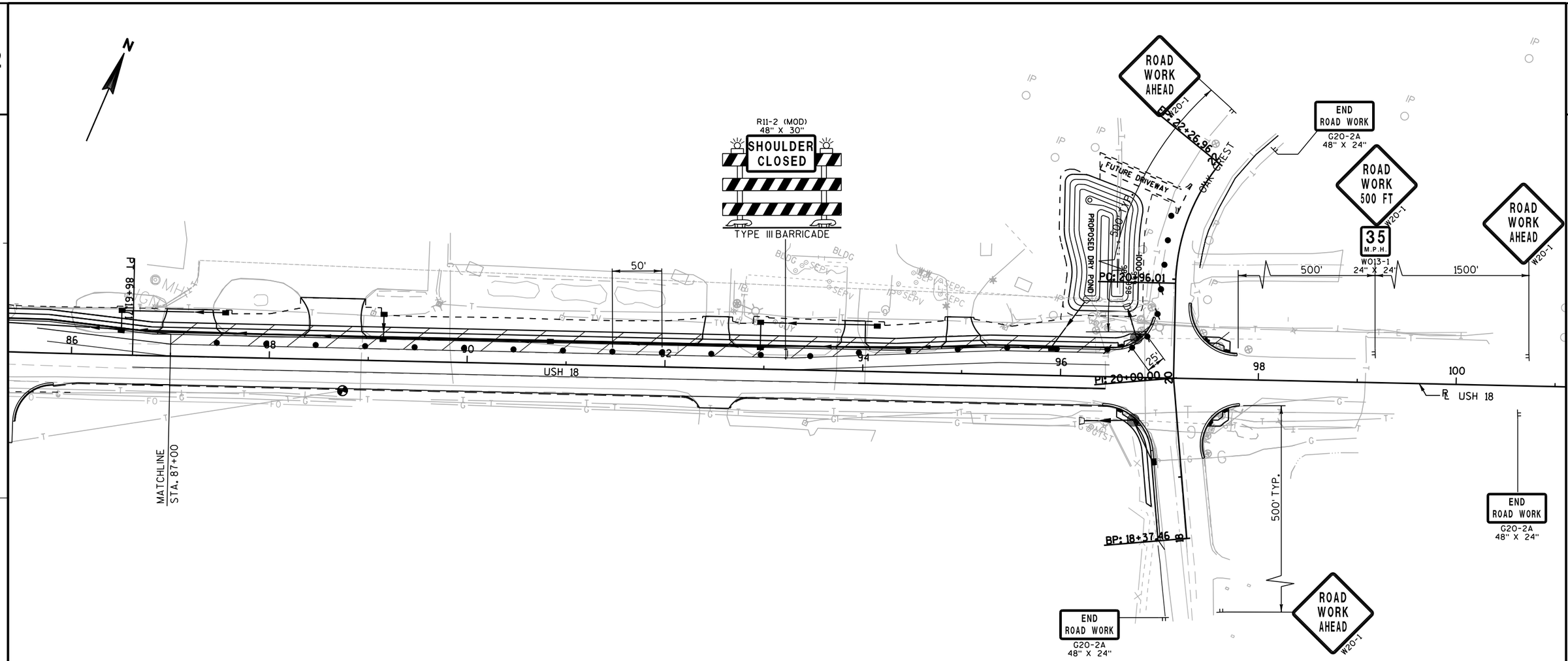
- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT
- COVER PLATES TEMPORARY
- COVER PLATES TEMPORARY WITH UNDERDRAIN CONNECTION

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3' LINE, 3' SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 325	E



LEGEND

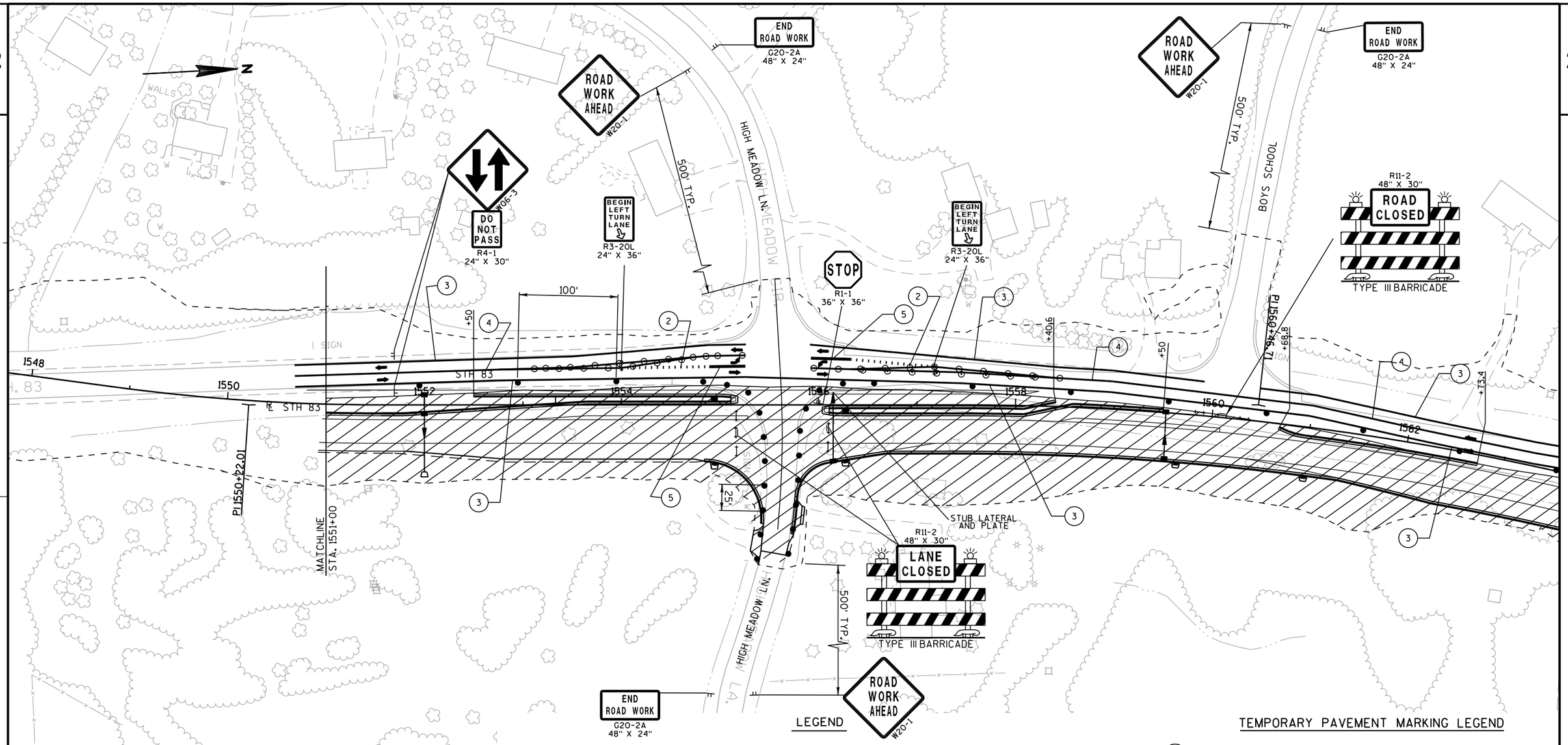
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- Ⓐ TYPE A WARNING LIGHT (FLASHING)
- Ⓑ TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- Ⓒ TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 326	E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 327	E

2

STATONING, OFFSETS, AND CROSS SECTIONS
BASED OFF OF 'NB STH 83' ALIGNMENT

CONSTRUCT TEMPORARY ASPHALT
FOR STAGE 3A TRAFFIC

℄ SB STH 83

STH 83

℄ NB STH 83

1564 1566 1568 1570 1572 1574 1576 1578

+86.5 7.4' LT

+00 4' RT

100'

+86.5 NB R/L

STUB LATERAL AND PLATE

+95.3 NB R/L

+00 12' RT

STUB LATERAL AND PLATE

+24.7 12' RT

+71.9

25'

GLACIER PASS

500' TYP.

POOL

ROAD WORK AHEAD W20-1

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

GLACIER PASS

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 328	E

2

N

DO NOT PASS
R4-1
24" X 30"
W06-3

ROAD WORK 500 FT
W20-1

ROAD WORK AHEAD
W20-1

500'

1500'

S.T.H. 83

STH 83

℄ NB STH 83

1586

1584

1582

1580

1578

℄ SB STH 83

℄ NB STH 83

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

100'

50'

25'

SIGN

55'

500' TYP.

GLACIER PASS

GLACIER

ROAD WORK AHEAD
W20-1

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

POOL

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 2	SHEET 329	E

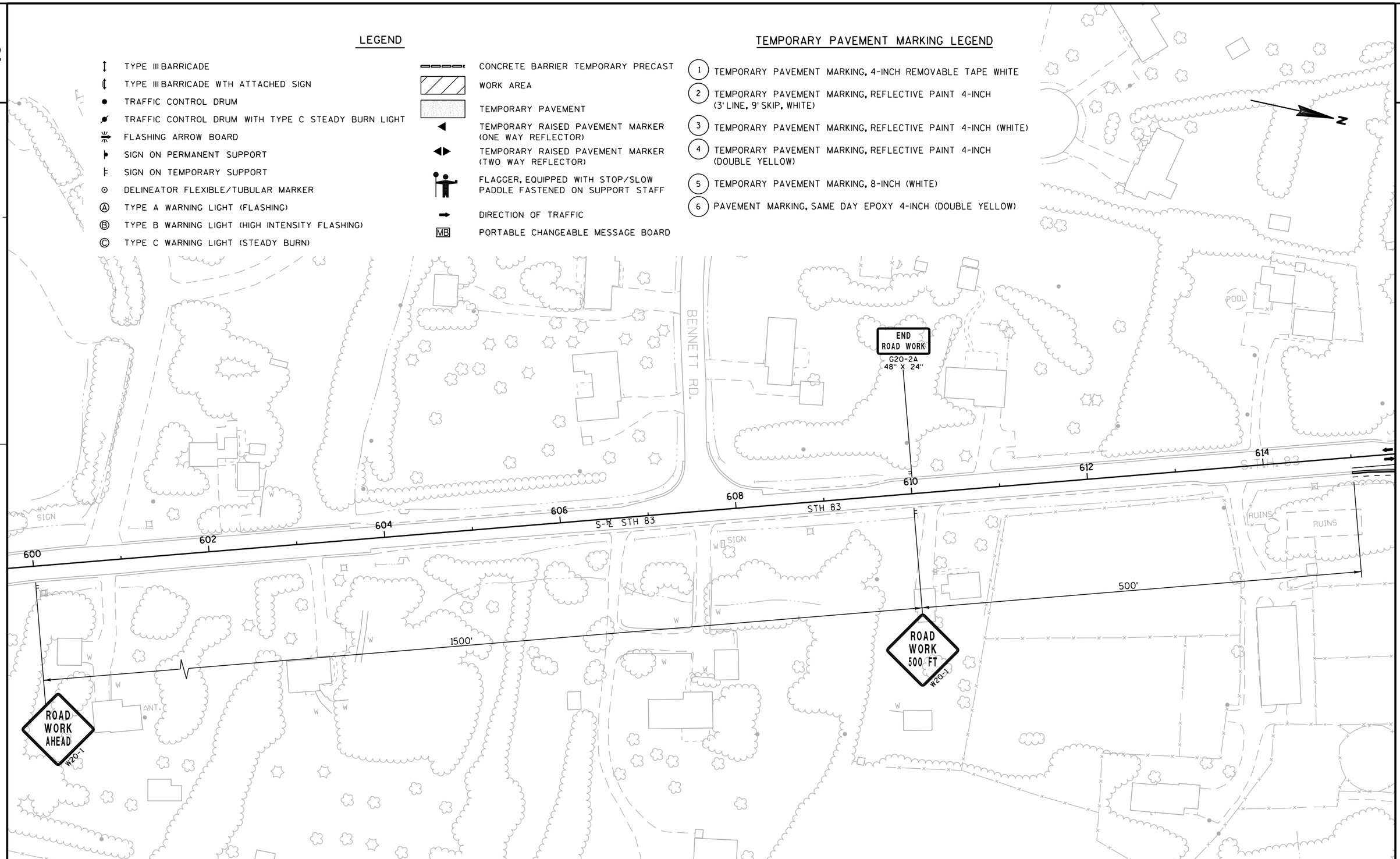
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3A	SHEET 330	E

FILE NAME : J:\projects\d2_13301883\026200a_S3A.dgn PLOT DATE : 30-JUL-2013 17:12 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

ROAD WORK AHEAD
W20-1

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

500' TYP.

W06-2

W06-1

PERKINS RD.

ANT.

616 618 620 622 624 626 628 630

STH 83

S-R STH 83

50'

100'

+00

+00

3 4 3 4

N

LEGEND

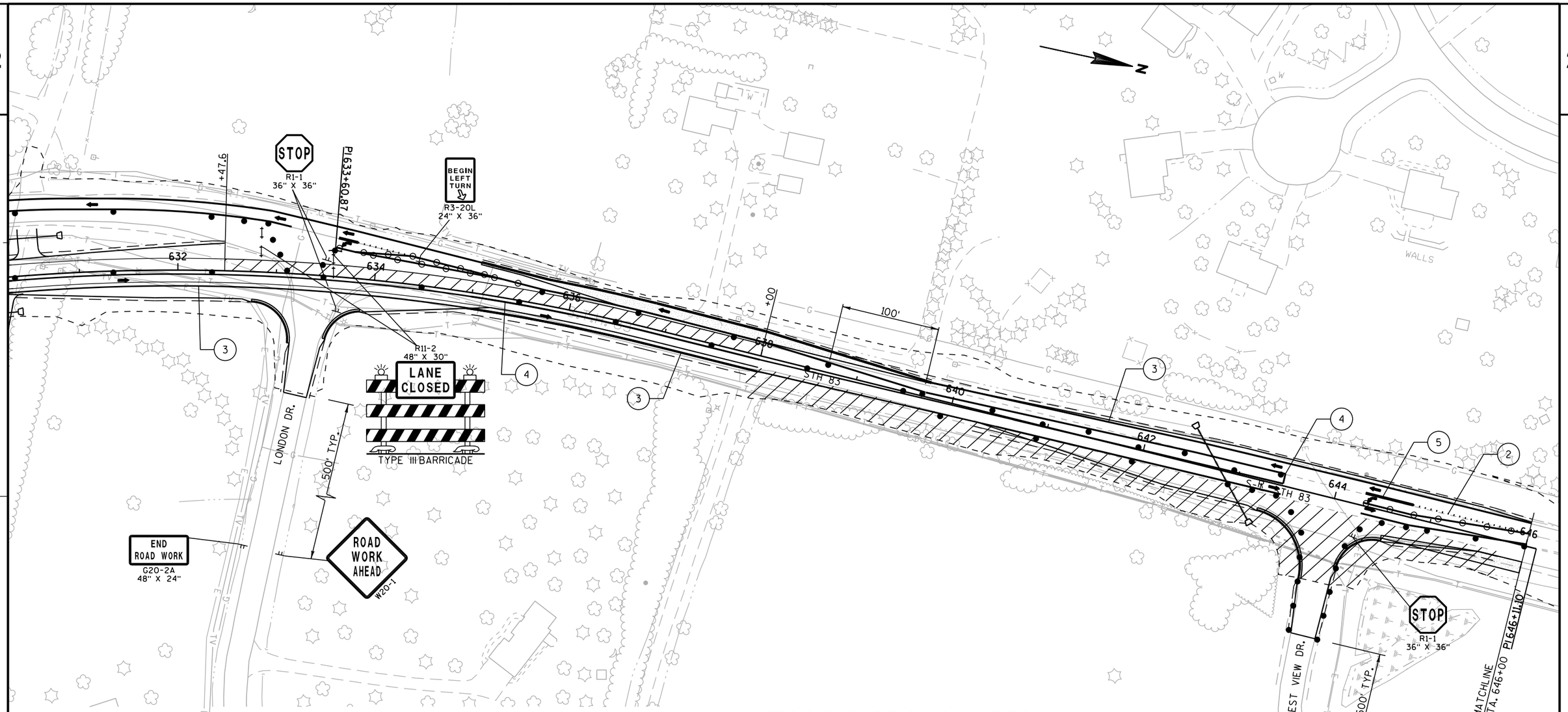
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3A	SHEET 331	E

2



LEGEND

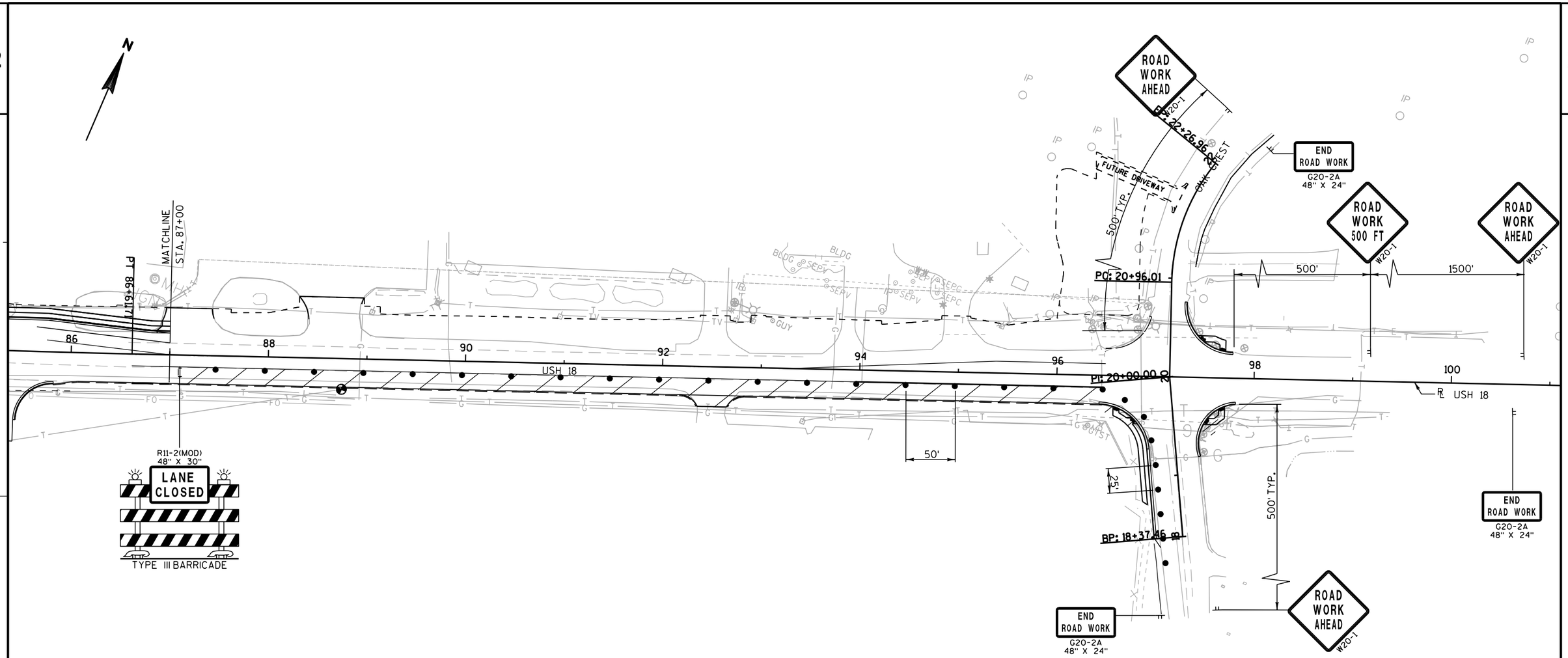
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3A	SHEET 332 E



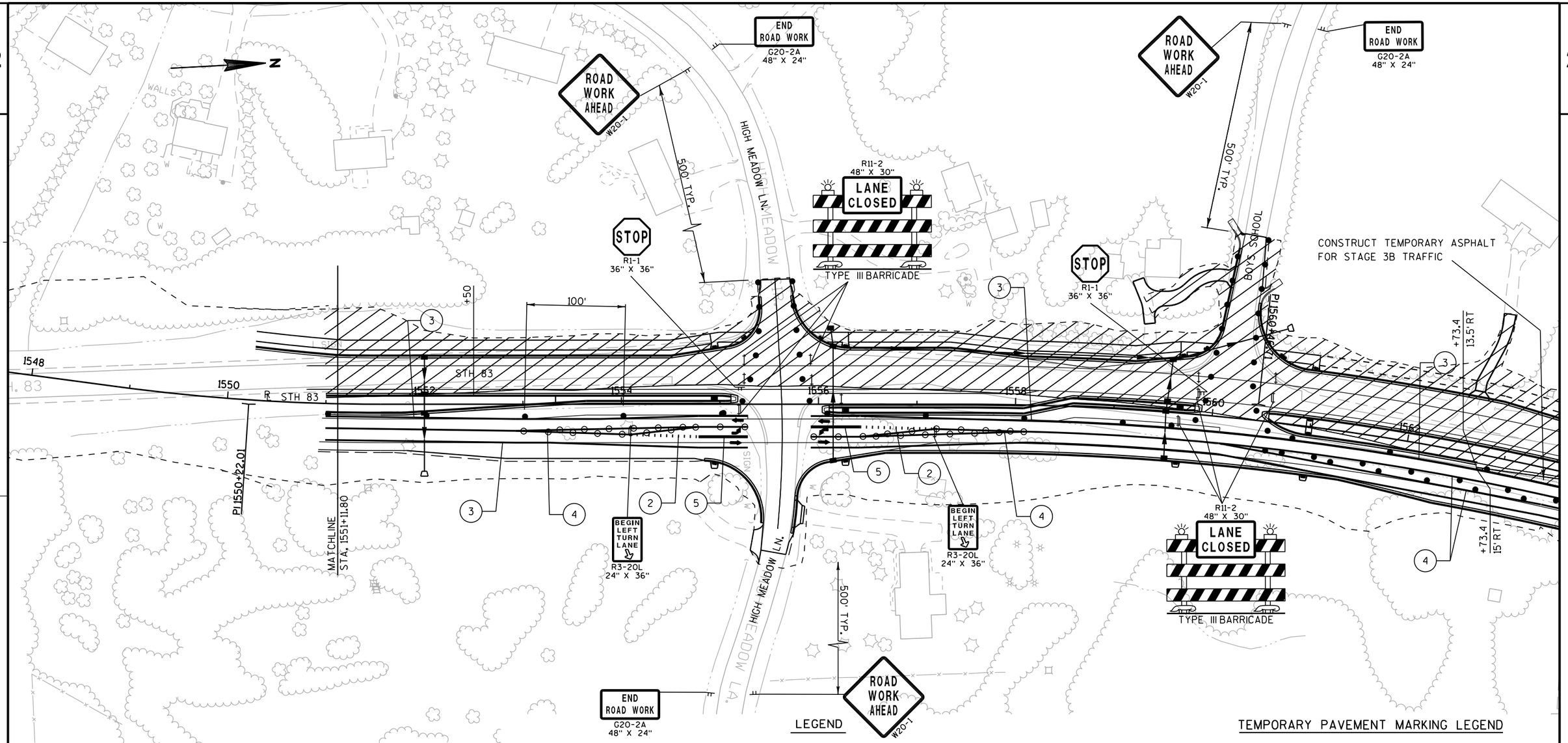
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- Ⓐ TYPE A WARNING LIGHT (FLASHING)
- Ⓑ TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- Ⓒ TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3A & 3B	SHEET 333	E



LEGEND

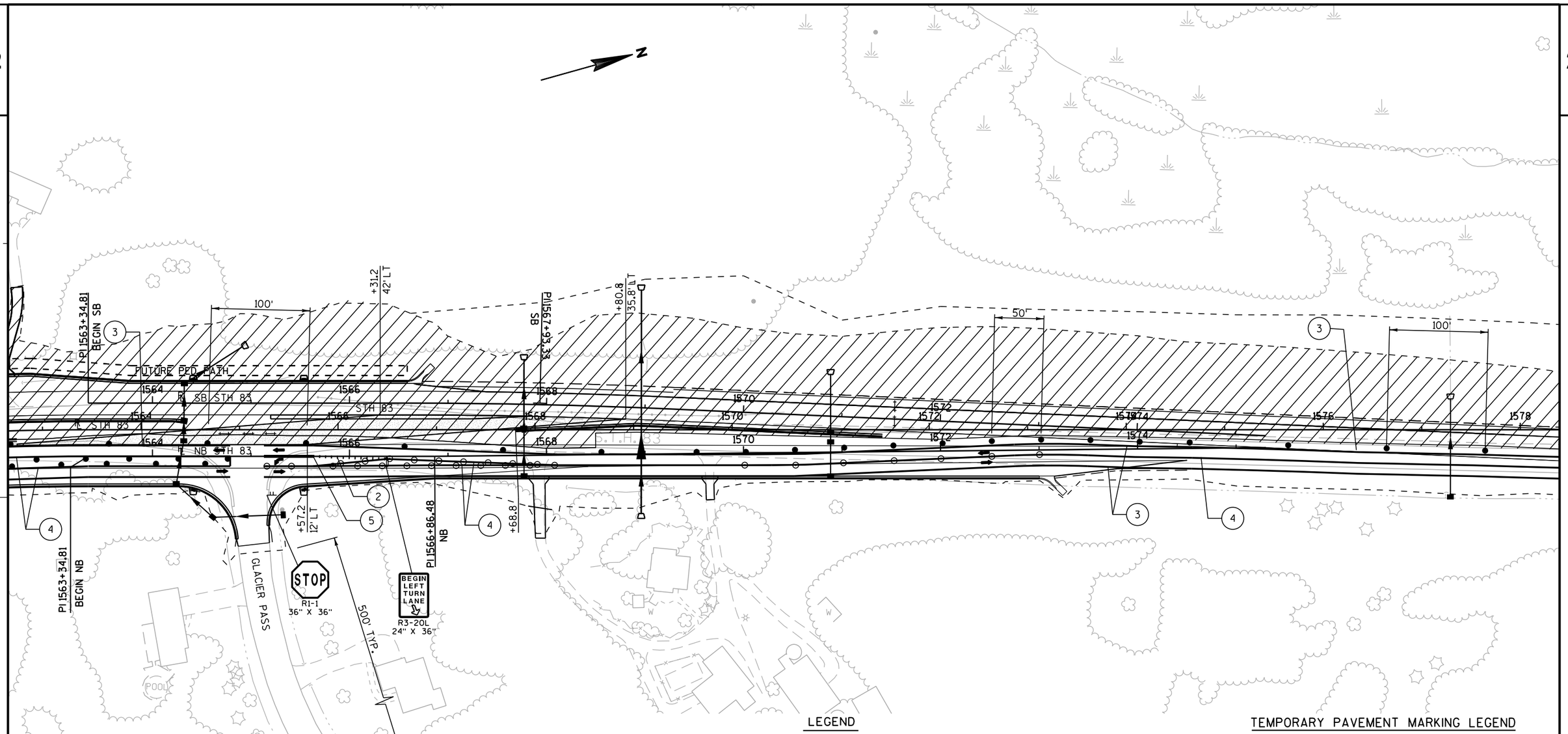
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3A	SHEET 334	E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3A	SHEET 335	E

2

N

PI 1577+47.83 NB

100'

℄ SB STH 83

℄ NB STH 83

1578

1580

1582

1584

1586

PI 1579+69.85 END SB

PI 1582+02.05 NB

PI 1586+47.12 END NB

3

4

SIGN

500' TYP.

GLACIER PASS GLACIER

ROAD WORK 500 FT W20-1

500'

1500'

ROAD WORK AHEAD W20-1

S.T.H. 83

STH 83

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

ROAD WORK AHEAD W20-1

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

POOL

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3A	SHEET 336	E

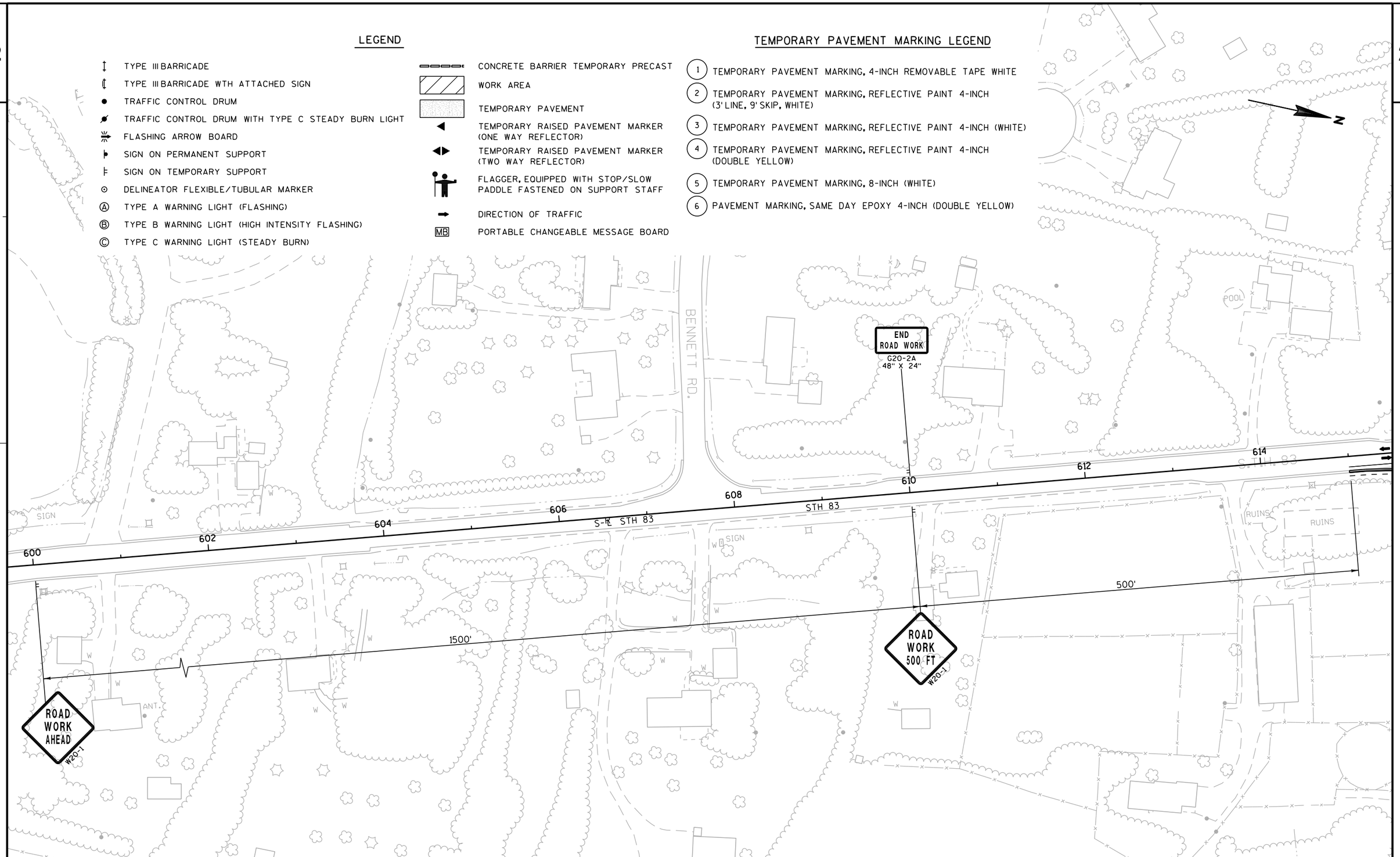
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

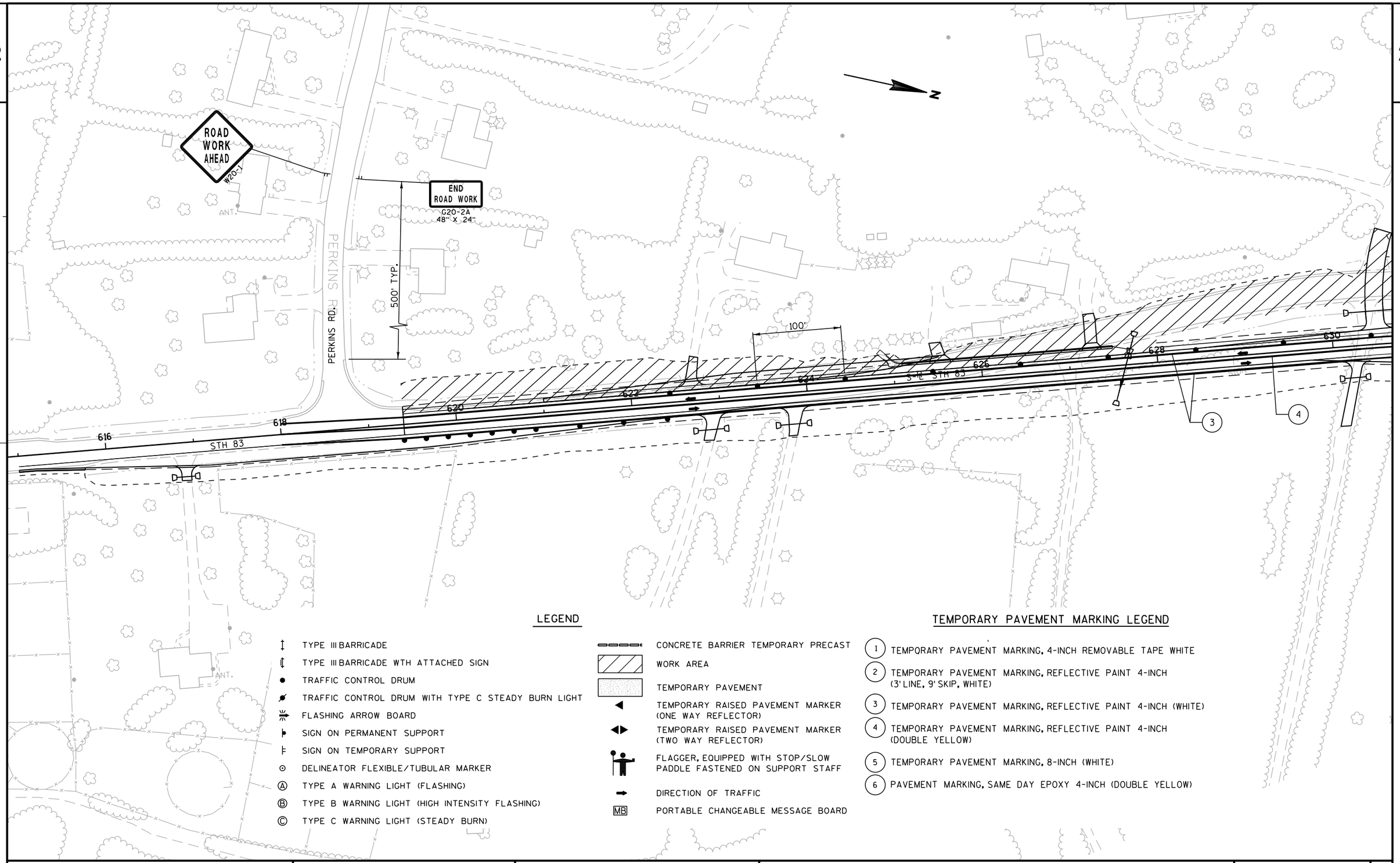


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 337	E

FILE NAME : J:\projects\d2_13301883\026250b_S3B.dgn PLOT DATE : 30-JUL-2013 17:14 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2



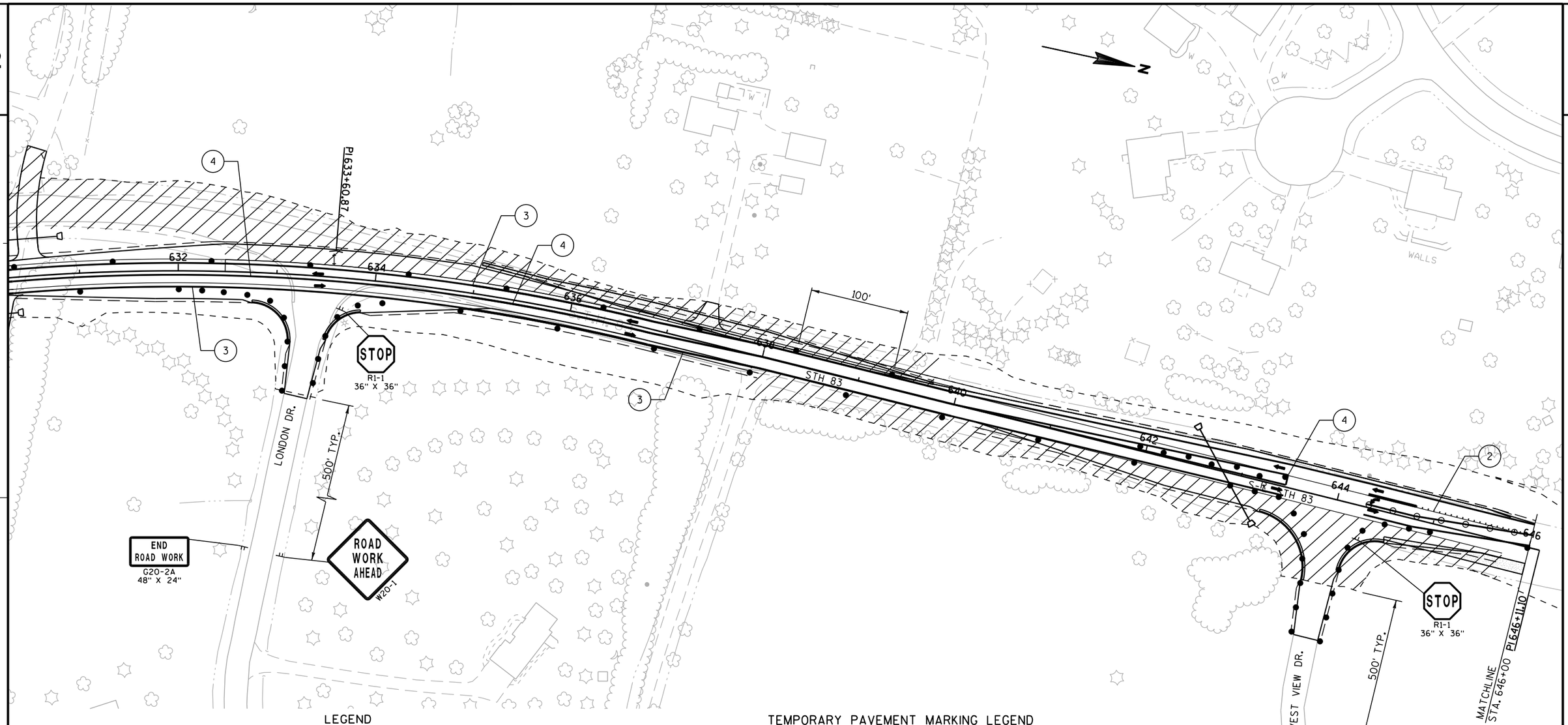
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 338	E



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

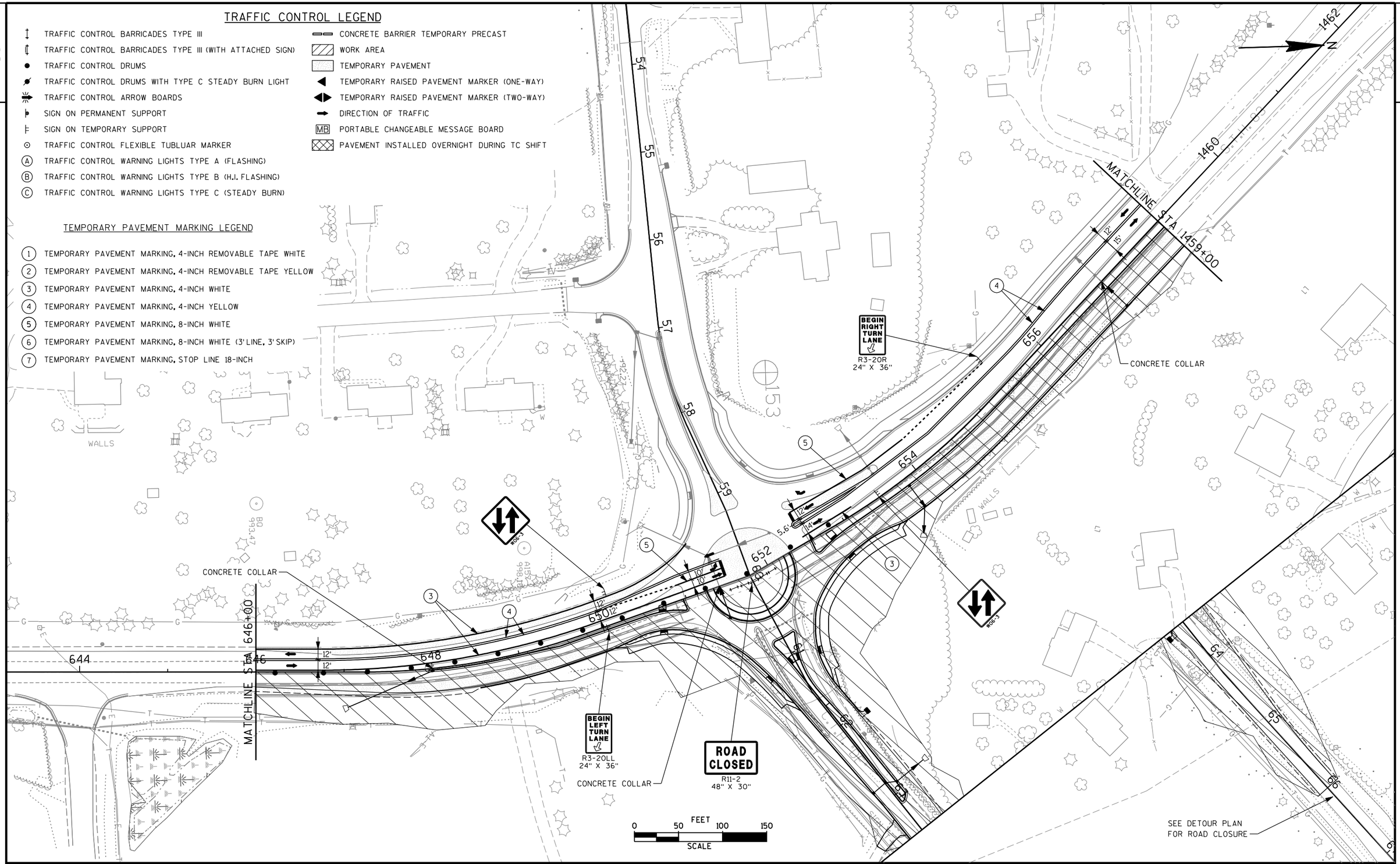
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 339 E

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT

TEMPORARY PAVEMENT MARKING LEGEND

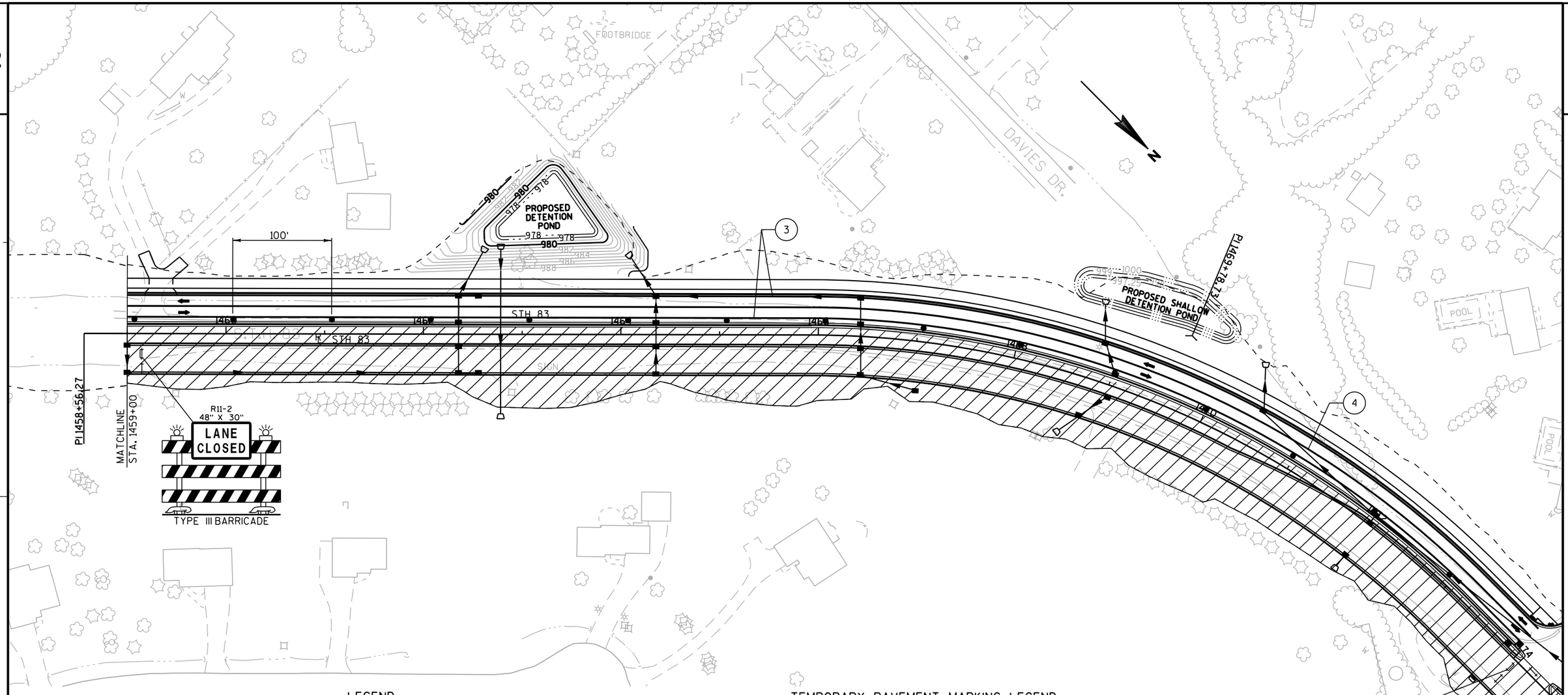
1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3' LINE, 3' SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3	SHEET 340	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_026201_s3.dgn
PLOT DATE : 9/13/2013 2:51:19 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 100.0000 FT / IN.
WISDOT/CADDS SHEET 42

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 341	E

2

ROAD WORK AHEAD W20-1

500' TYP.

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

STOP R1-1 36" X 36"

PORTHAMEL CT.

DO NOT PASS R4-1 24" X 30"

W06-3

BEGIN LEFT TURN LANE R3-20L 24" X 36"

C.T.H. "G" CTH G

POOL

RUINS

JERUSALEM

CEMETERY

STH 83

R STH 83 F

1474 1476 1478 1480 1482 1484 1486 1488

+85 +65

100'

PI 1485+63.20

R11-2 48" X 30" LANE CLOSED TYPE III BARRICADE

W01-4R

25'

PROPOSED DETENTION POND

EMERGENC

BRANDYBROOK RD.

987 98

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 342	E

2

N

CEMETERY

SALEM CEMETERY

W01-4R

+79.4

1488 1490 1492 1494 1496 1498 1500 1502

STH 83

990 992 994

PROPOSED DETENTION POND

EMERGENCY SPILLWAY

PI 1492+81.91

PROPOSED DETENTION POND

PI 1498+04.61

SIGN

100'

WALLS

POOL

ROAD WORK AHEAD
W20-1

500' TYP.

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

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

STOP
R1-1
36" X 36"

R11-2
48" X 30"
LANE CLOSED

TYPE III BARRICADE

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

WELSH RD.

INL

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 343	E

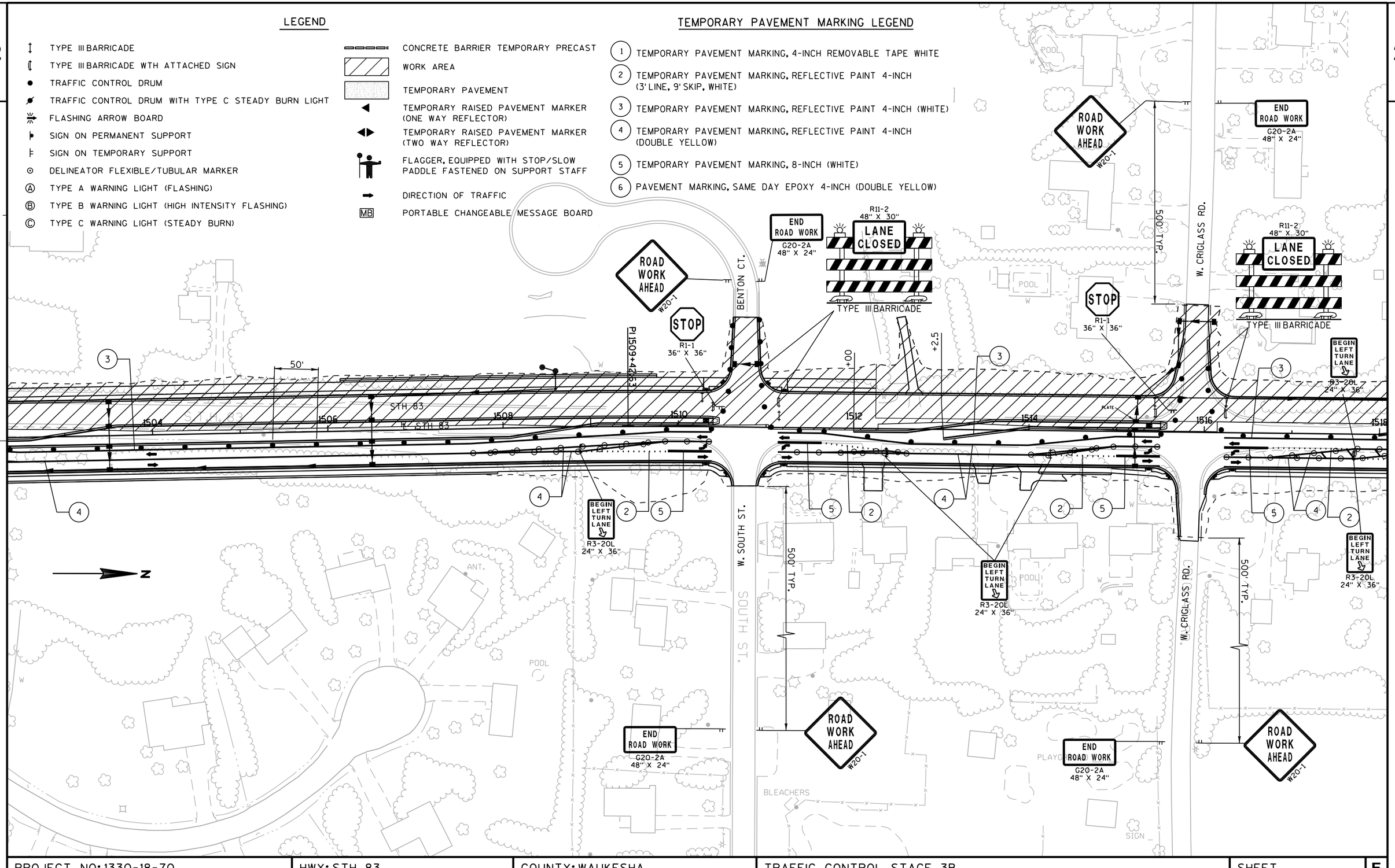
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 344 E

FILE NAME : J:\projects\d2_13301883\026257b_S3B.DGN PLOT DATE : 30-JUL-2013 17:16 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

2

N

ROAD WORK AHEAD
W20-1

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

500' TYP.

R11-2
48" X 30"
LANE CLOSED
TYPE III BARRICADE

STOP
R1-1
36" X 36"

50'

R11-2
48" X 30"
LANE CLOSED
TYPE III BARRICADE

PROPOSED DETENTION POND

STH 83

CYMRIC CT.

MAIN ST.
CTH C

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

MATCHLINE
STA. 1531+50

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

500' TYP.

ROAD WORK AHEAD
W20-1

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 345	E

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3' LINE, 3' SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH

MATCHLINE STA 1531+00

MATCHLINE STA 1546+00

MATCHLINE STA 82+50

CONCRETE COLLAR

CONCRETE COLLAR

CONCRETE COLLAR

CONCRETE COLLAR

W01-6 48" X 24"

W12-1D 24" X 24"

R1-2 36" X 31"

FEET 0 50 100 150

SCALE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3	SHEET 346	E

2

TRAFFIC CONTROL LEGEND

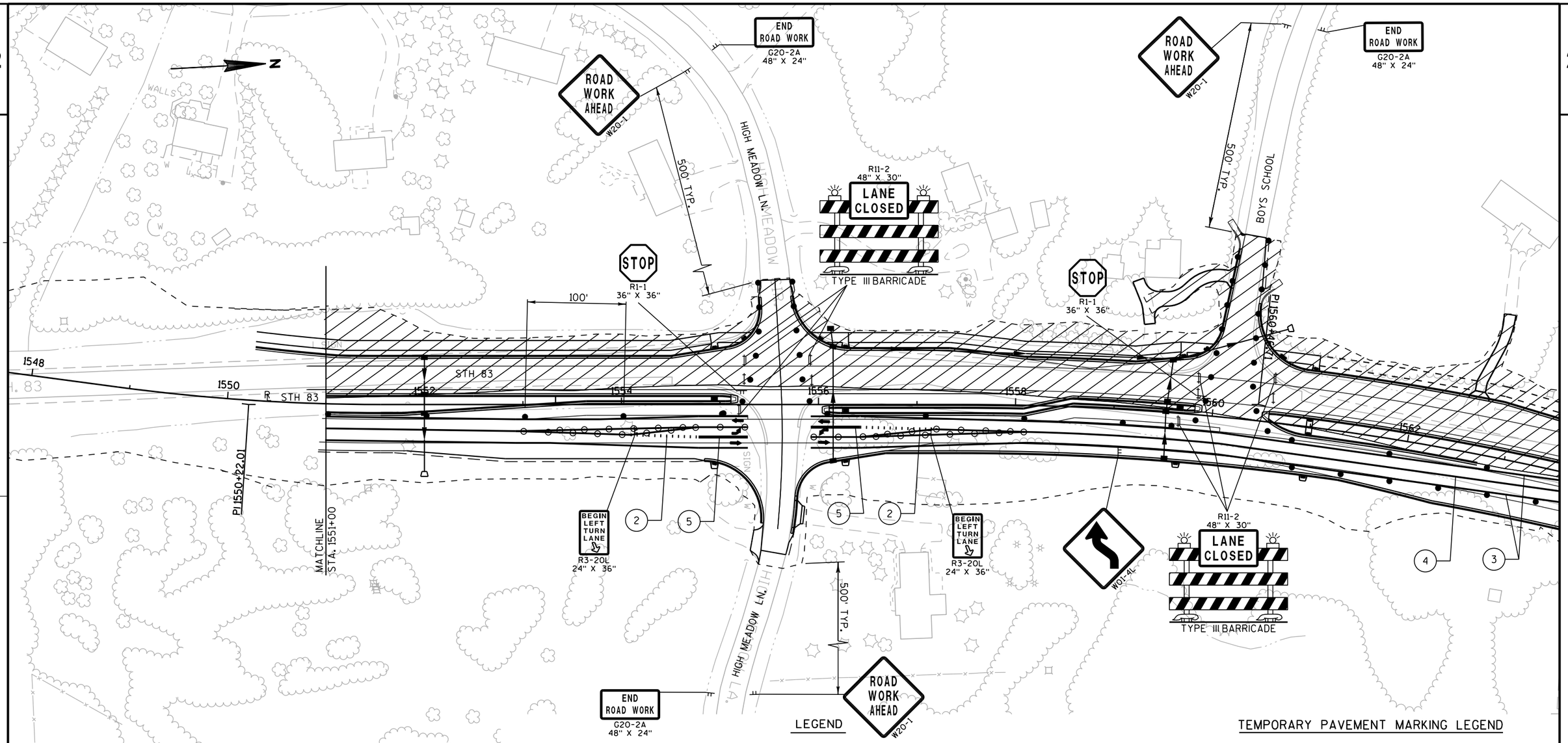
- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3' LINE, 3' SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3	SHEET 347	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\CADD\Sheets\p_026203_s3.dgn
PLOT DATE : 7/31/2013 8:25:03 AM PLOT BY : untitled Pdf_bw_HS.plt PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 100.0000 FT / IN.
WISDOT/CADDS SHEET 42



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 348 E

2

N

R11-2
48" X 30"
LANE CLOSED
TYPE III BARRICADE

W01-4L

PI 1563+34.81
BEGIN SB

PI 1566+86.48
NB

PI 1567+93.33
SB

FUTURE PED PATH

SB STH 83

STH 83

NB STH 83

50'

100'

1564 1566 1568 1570 1572 1574 1576 1578

GLACIER PASS

500' TYP.

POOL

ROAD WORK AHEAD
W20-1

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

R11-2
48" X 30"
LANE CLOSED
TYPE III BARRICADE

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 349	E

2

N

PI 1577+47.23 NB

℄ SB STH 83

℄ NB STH 83

100'

1578

1580

1582

1584

1586

PI 1579+69.85 END SB

PI 1582+02.05 NB

SIGN

500' TYP.

GLACIER PASS

GLACIER

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

ROAD WORK AHEAD
W20-1

500'

ROAD WORK 500 FT
W20-1

1500'

ROAD WORK AHEAD
W20-1

STH 83

S.T.H. 83

℄ NB STH 83

END NB PI 1586+47.12

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

POOL

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 3B	SHEET 350	E

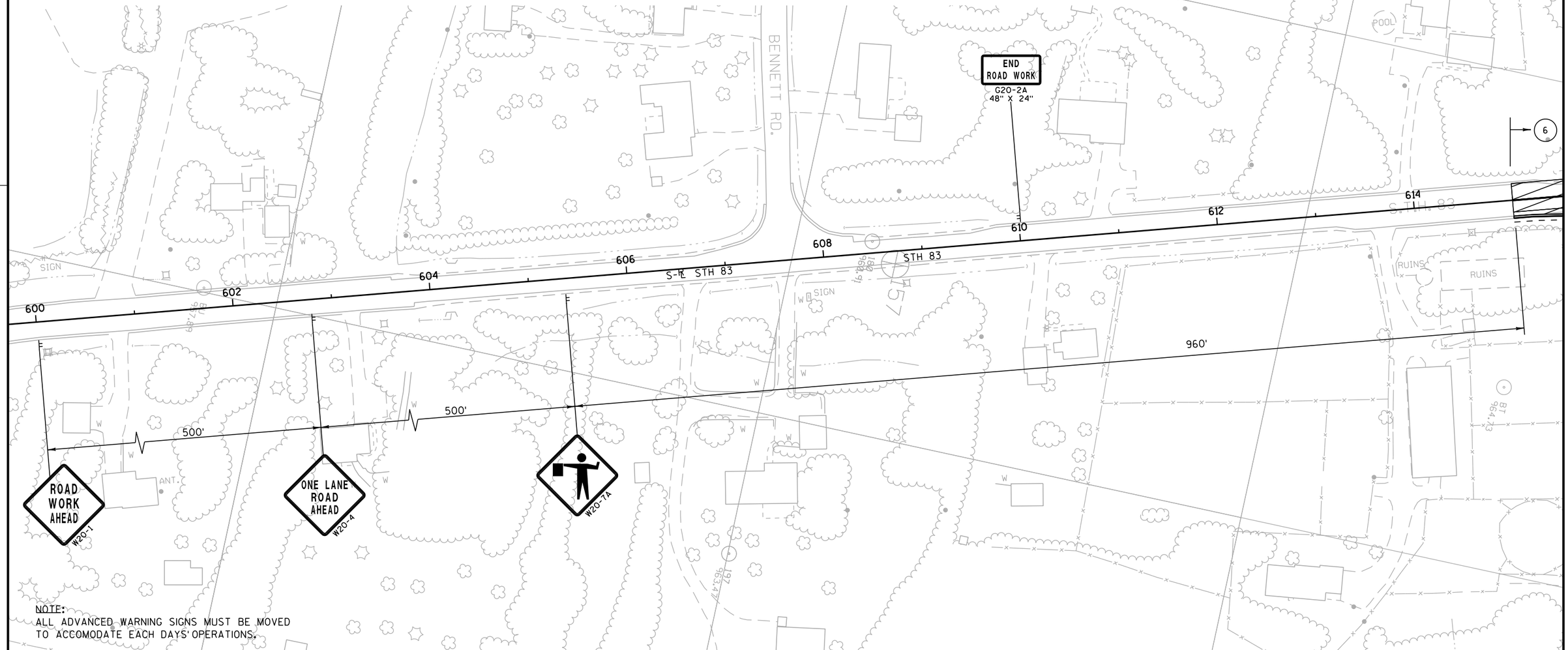
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

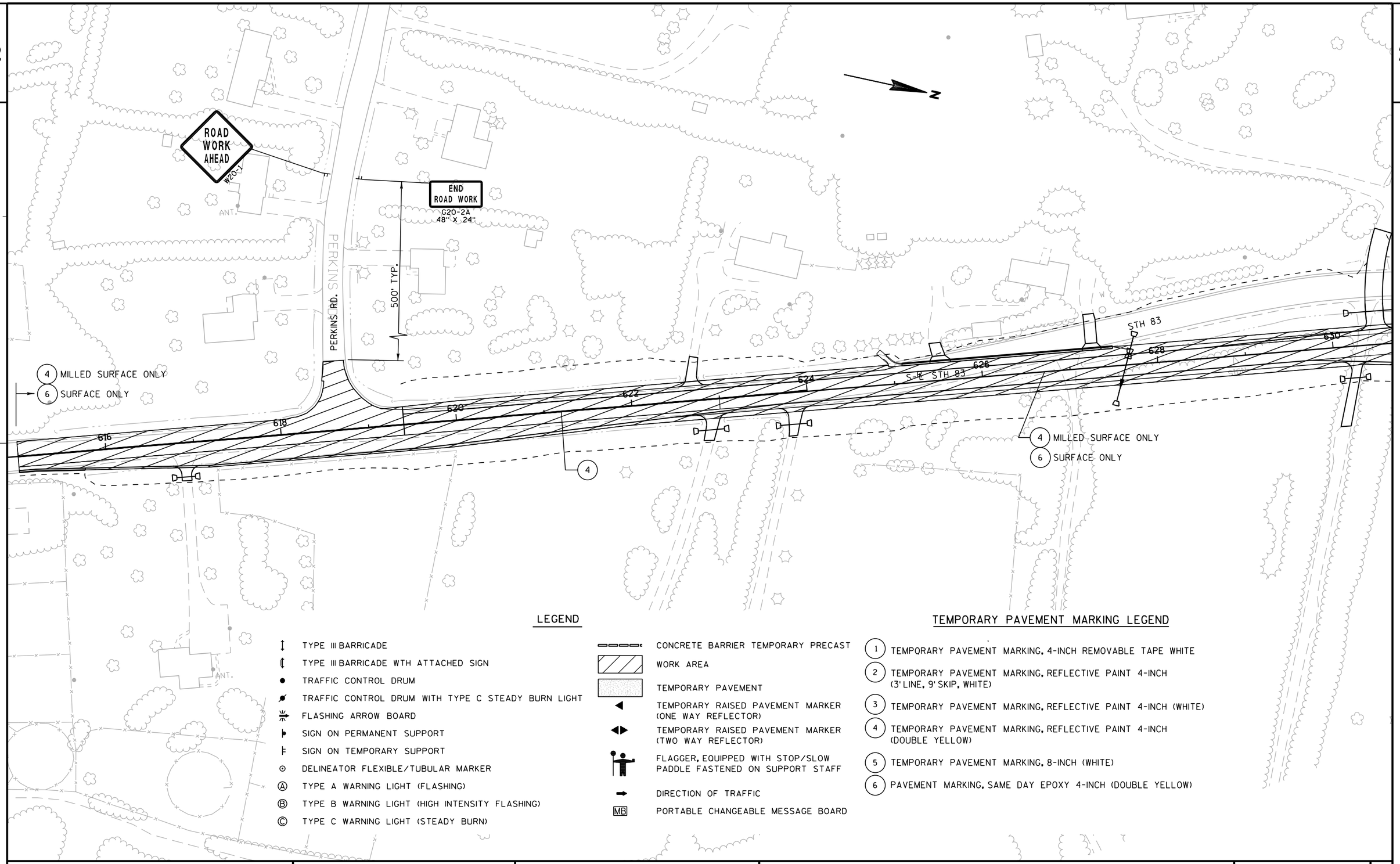
1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)



NOTE:
ALL ADVANCED WARNING SIGNS MUST BE MOVED TO ACCOMODATE EACH DAYS' OPERATIONS.

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 351	E

2



LEGEND

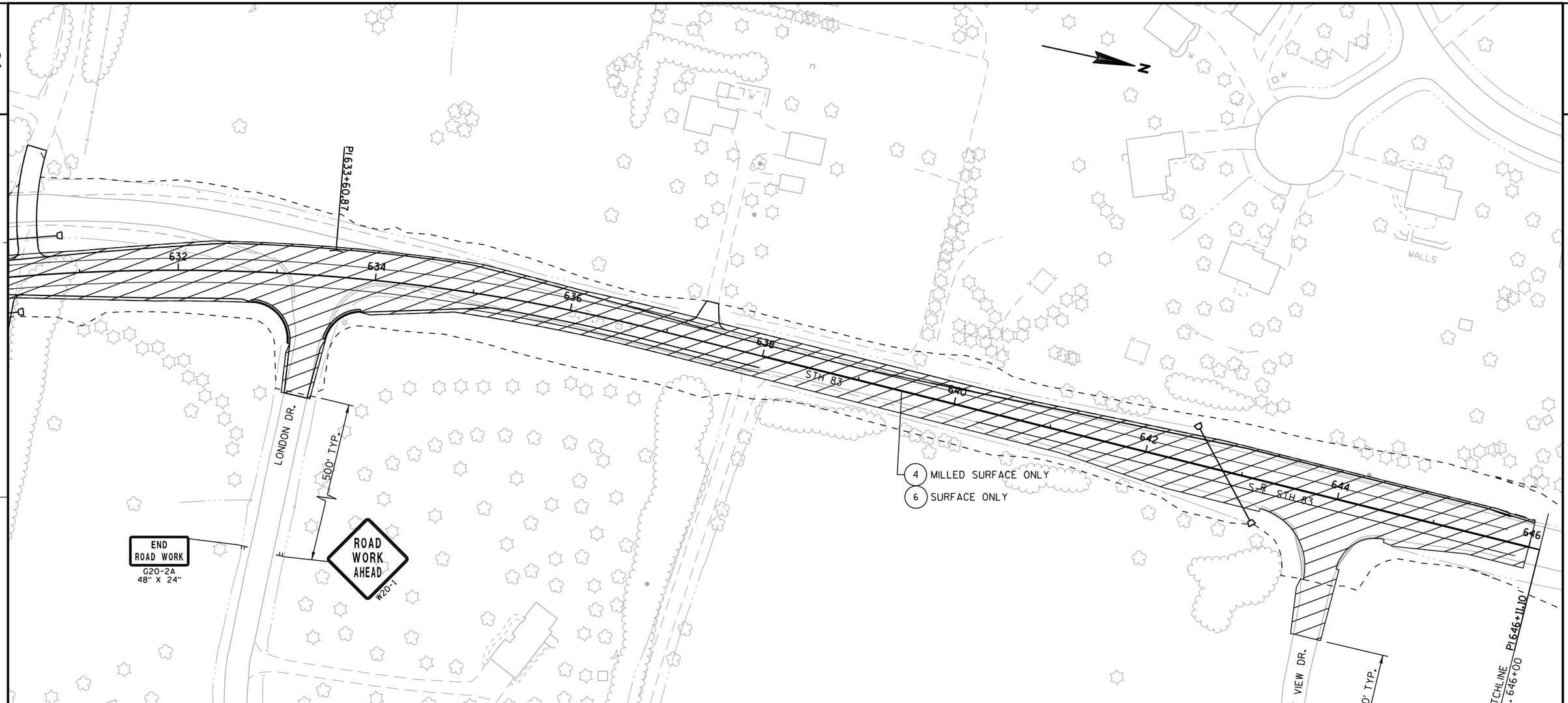
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 352	E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

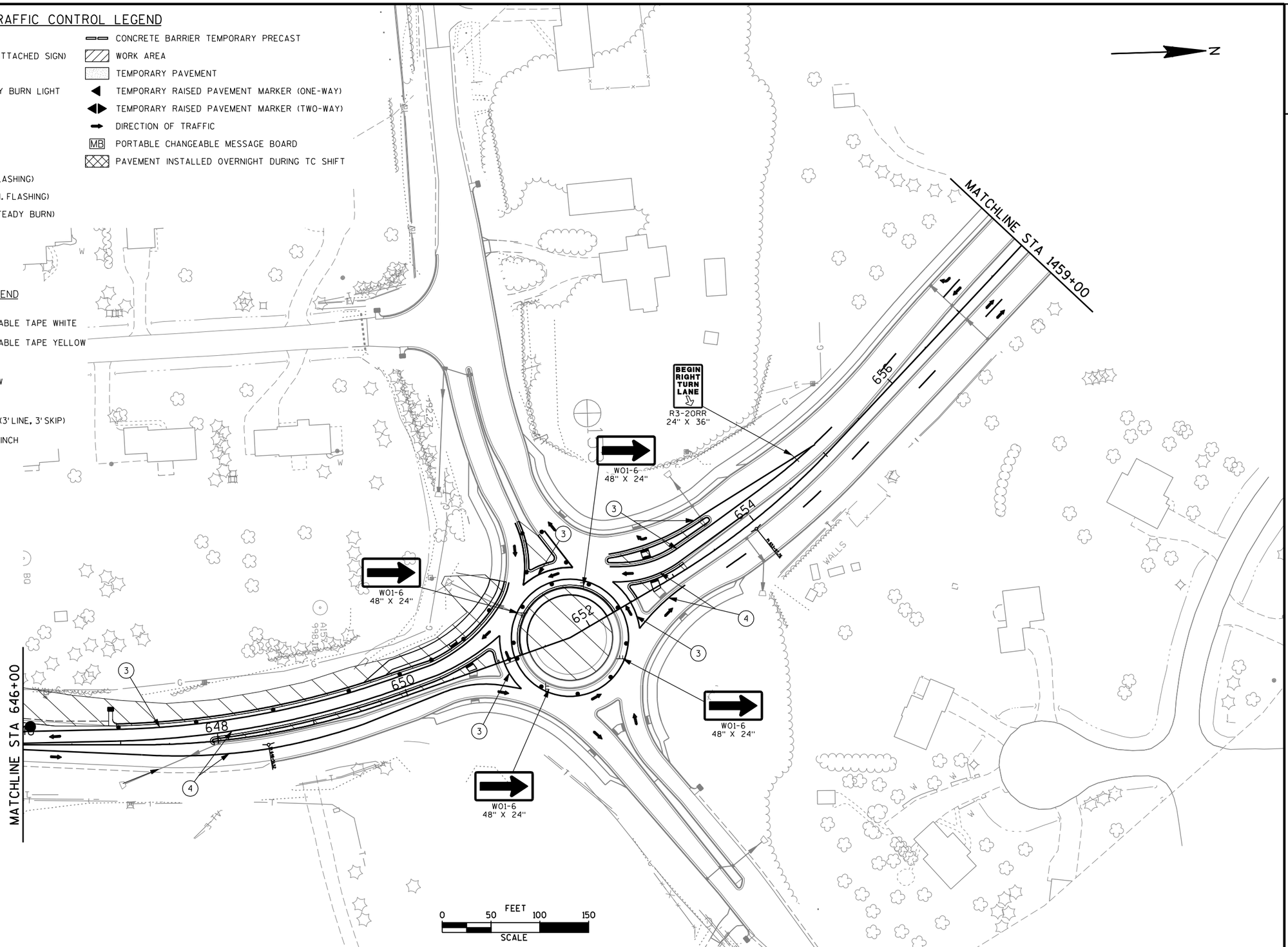
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 353	E

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT

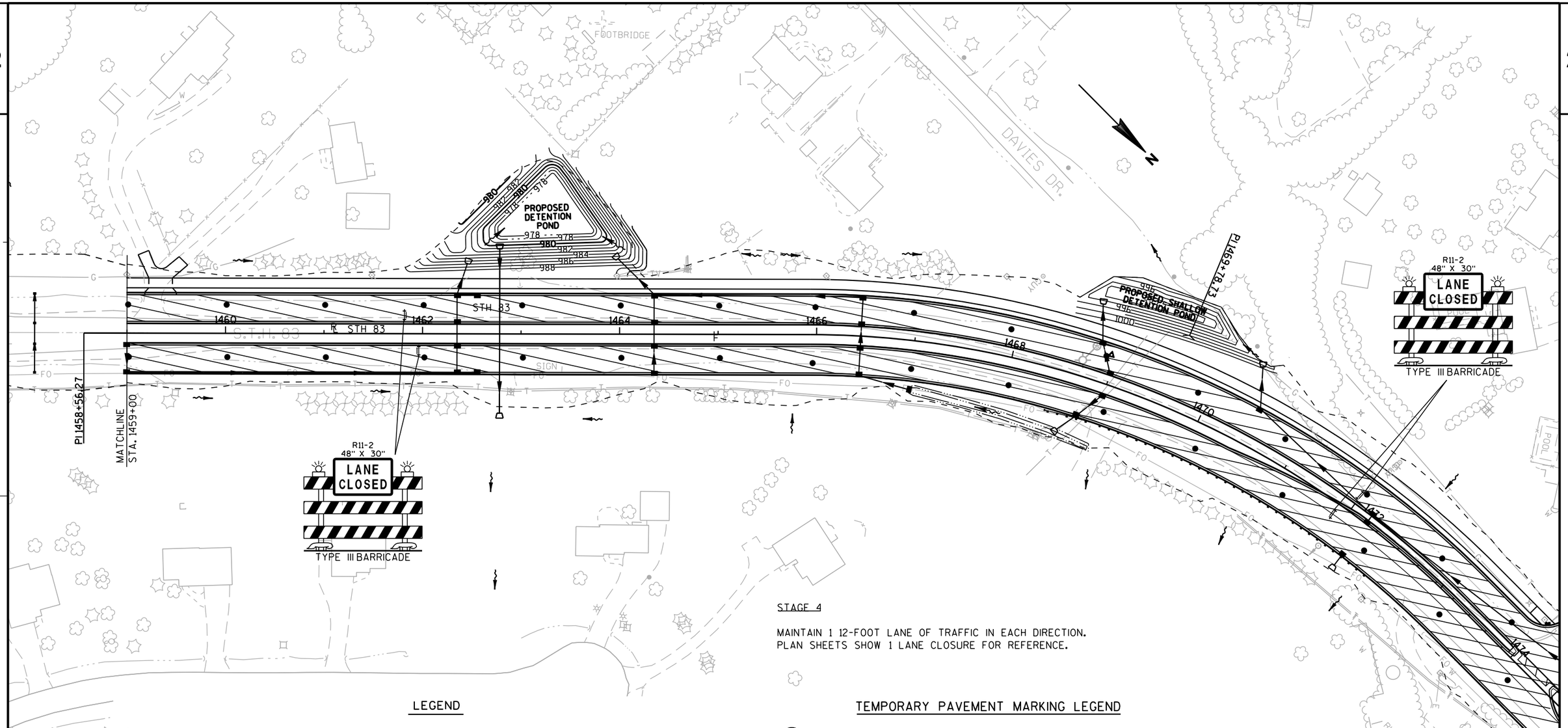
TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3' LINE, 3' SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 354	E

2



STAGE 4

MAINTAIN 1 12-FOOT LANE OF TRAFFIC IN EACH DIRECTION.
PLAN SHEETS SHOW 1 LANE CLOSURE FOR REFERENCE.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 355	E

STAGE 4

MAINTAIN 1 12-FOOT LANE OF TRAFFIC IN EACH DIRECTION.
PLAN SHEETS SHOW 1 LANE CLOSURE FOR REFERENCE.

ROAD WORK AHEAD W20-1

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

PORTHAMEL CT.

500' TYP.

R11-2 48" X 30" LANE CLOSED

TYPE III BARRICADE

CTH G

POOL

LOW AREA

100'

PI 1485+63.20

1474 1476 1478 1480 1482 1484 1486 1488

STH 83

50'

RUINS

JERUSALEM CEMETERY

PROPOSED DETENTION POND

EMERGENC

BRANDYBROOK RD.

CEMETERY

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 356 E

2

STAGE 4

MAINTAIN 1 12-FOOT LANE OF TRAFFIC IN EACH DIRECTION.
PLAN SHEETS SHOW 1 LANE CLOSURE FOR REFERENCE.

N

R11-2
48" X 30"
LANE CLOSED
TYPE III BARRICADE

ROAD WORK AHEAD
W20-1

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

500' TYP.

WELSH RD.

CEMETERY

SALEM CEMETERY

WALLS

POOL

SIGN

STH 83

PROPOSED DETENTION POND

EMERGENCY SPILLWAY

PI 1492+81.91

PI 1498+04.61

100'

1488 1490 1492 1494 1496 1498 1500 1502

990 992 994

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 357	E

FILE NAME : J:\projects\d2_13301883\026306_S4.DGN PLOT DATE : 30-JUL-2013 17:21 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

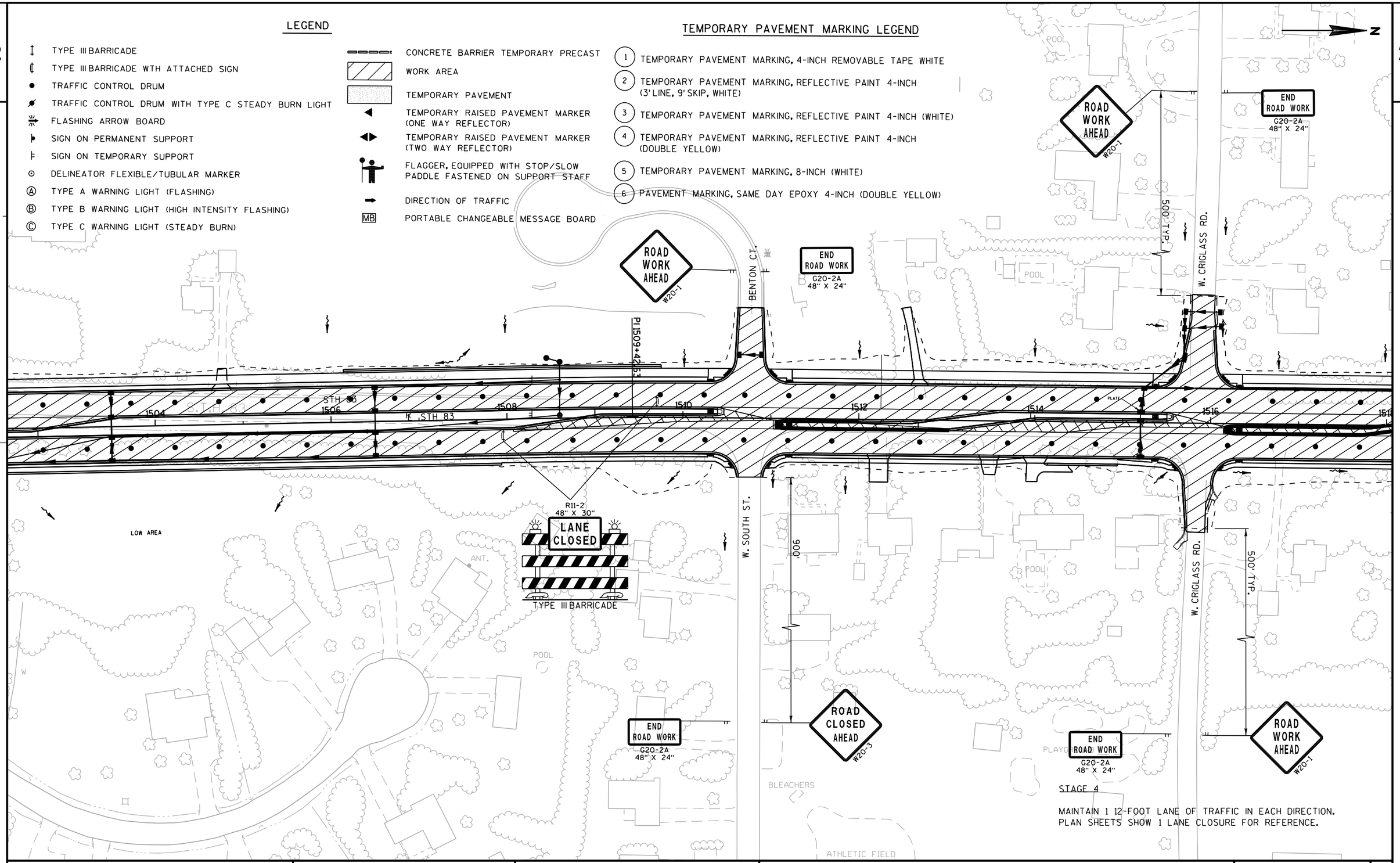
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)



STAGE 4

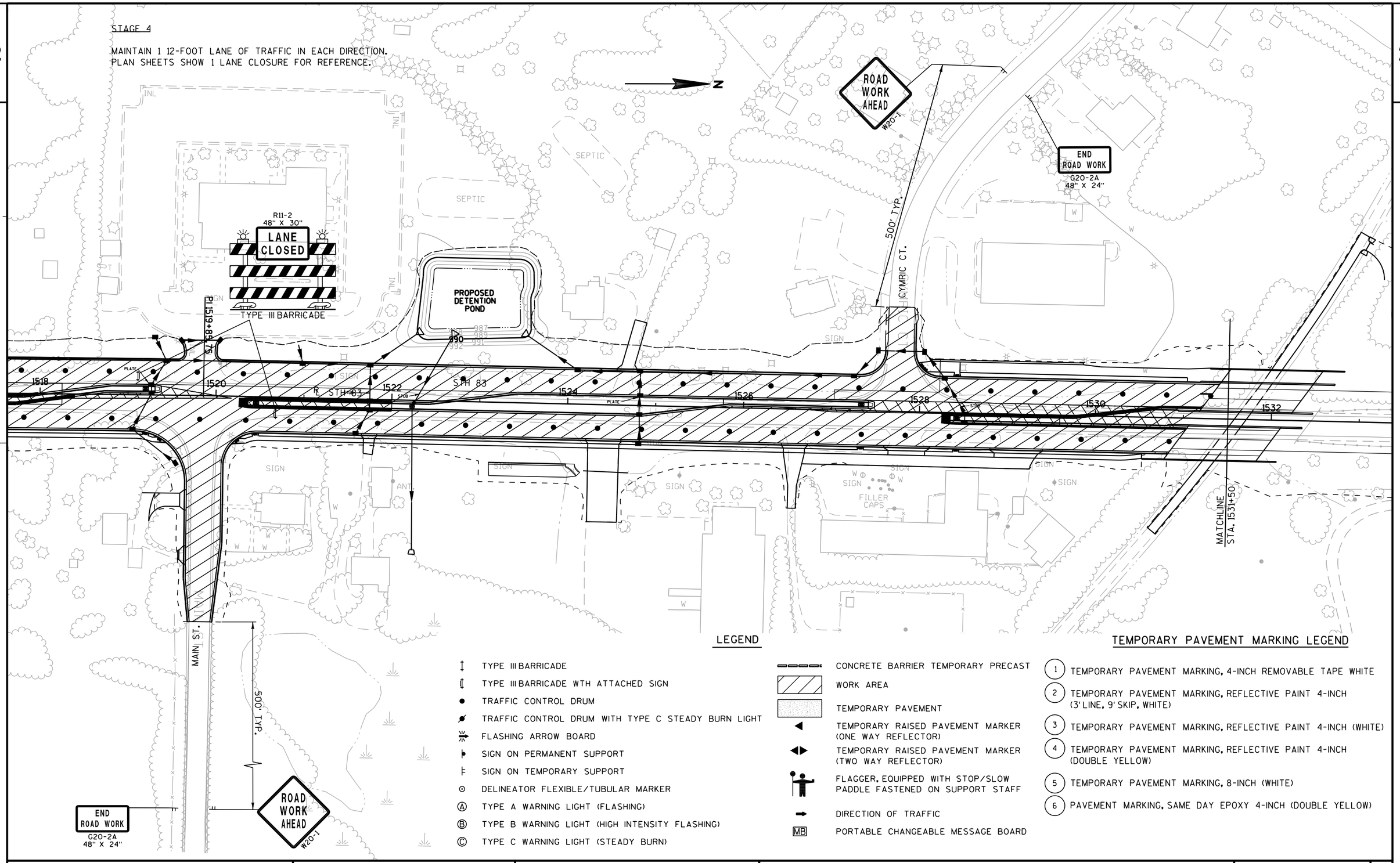
MAINTAIN 1 12-FOOT LANE OF TRAFFIC IN EACH DIRECTION.
PLAN SHEETS SHOW 1 LANE CLOSURE FOR REFERENCE.

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET E

FILE NAME : J:\projects\d2_13301883\026307_S4.DGN PLOT DATE : 30-JUL-2013 17:21 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

STAGE 4

MAINTAIN 1 12-FOOT LANE OF TRAFFIC IN EACH DIRECTION.
PLAN SHEETS SHOW 1 LANE CLOSURE FOR REFERENCE.



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 359 E

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3' LINE, 3' SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH

MATCHLINE STA 1531+00

MATCHLINE STA 1546+00

MATCHLINE STA 82+50

1532 1534 1536 1538 1540 1542 1544

BLACKWOOD DRIVE

ASPHALT DRIVE

26' PRIVATE ROAD

CANOPY

FILLER CAPS

BF 988.3

INL

BLDG

52 PKG. STALLS (14.8% / 1,480 SF)

PROPOSED 2 STORY OFFICE BLDG. 31,796 SF / FLR.

PROPOSED 1 STORY RESTAURANT 2,498 SF

PROPOSED RETAIL BUILDING (14,480 SF) FOOD SERVICE (1,500 SF MAXIMUM) PARKING SPACES = 81 5.7/1000

RETENTION AREA 5,462 SF.

PUBLIC COMMON AREA

0 50 100 150 FEET

SCALE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 360	E

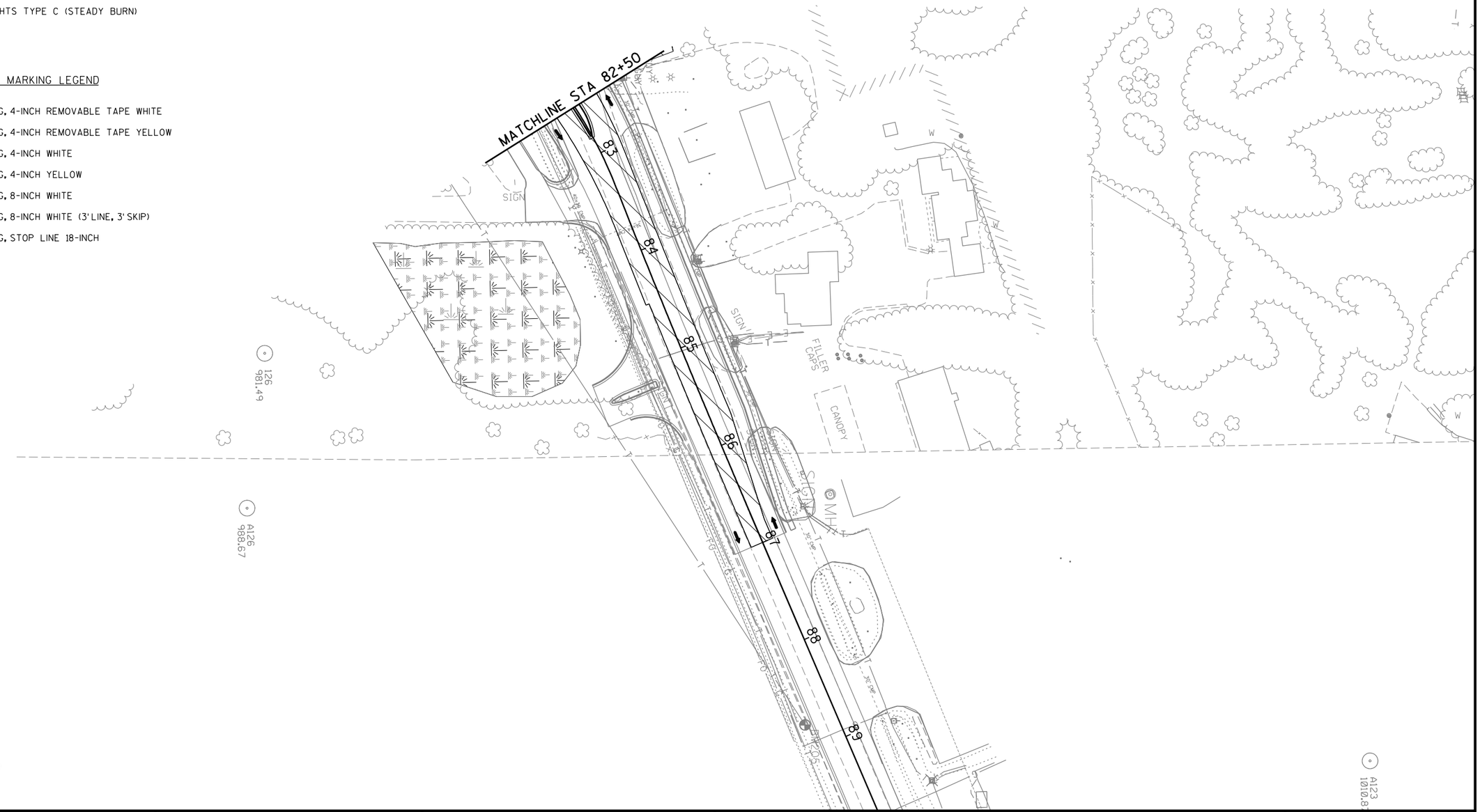
2

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADES TYPE III
- TRAFFIC CONTROL BARRICADES TYPE III (WITH ATTACHED SIGN)
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH TYPE C STEADY BURN LIGHT
- TRAFFIC CONTROL ARROW BOARDS
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL FLEXIBLE TUBLUAR MARKER
- (A) TRAFFIC CONTROL WARNING LIGHTS TYPE A (FLASHING)
- (B) TRAFFIC CONTROL WARNING LIGHTS TYPE B (H.I. FLASHING)
- (C) TRAFFIC CONTROL WARNING LIGHTS TYPE C (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE-WAY)
- TEMPORARY RAISED PAVEMENT MARKER (TWO-WAY)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PAVEMENT INSTALLED OVERNIGHT DURING TC SHIFT

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE YELLOW
3. TEMPORARY PAVEMENT MARKING, 4-INCH WHITE
4. TEMPORARY PAVEMENT MARKING, 4-INCH YELLOW
5. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE
6. TEMPORARY PAVEMENT MARKING, 8-INCH WHITE (3' LINE, 3' SKIP)
7. TEMPORARY PAVEMENT MARKING, STOP LINE 18-INCH

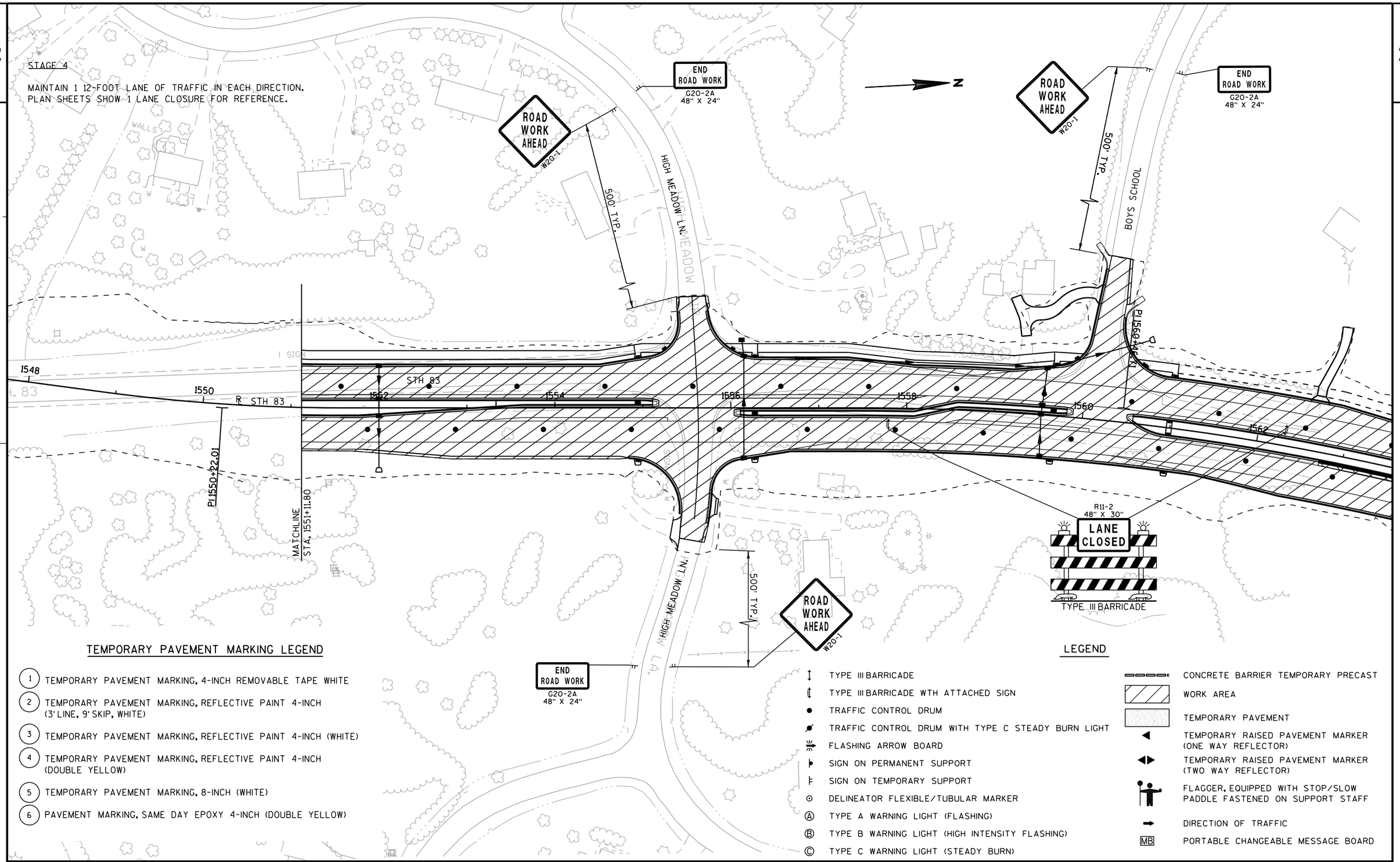


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 1	SHEET 361 E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\CADD\Sheets\p_026303_s4.dgn
PLOT DATE : 7/31/2013 8:35:20 AM PLOT BY : untitled
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 100.0000 FT / IN.
WISDOT/CADDS SHEET 42

STAGE 4

MAINTAIN 1 12-FOOT LANE OF TRAFFIC IN EACH DIRECTION.
PLAN SHEETS SHOW 1 LANE CLOSURE FOR REFERENCE.



TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

LEGEND

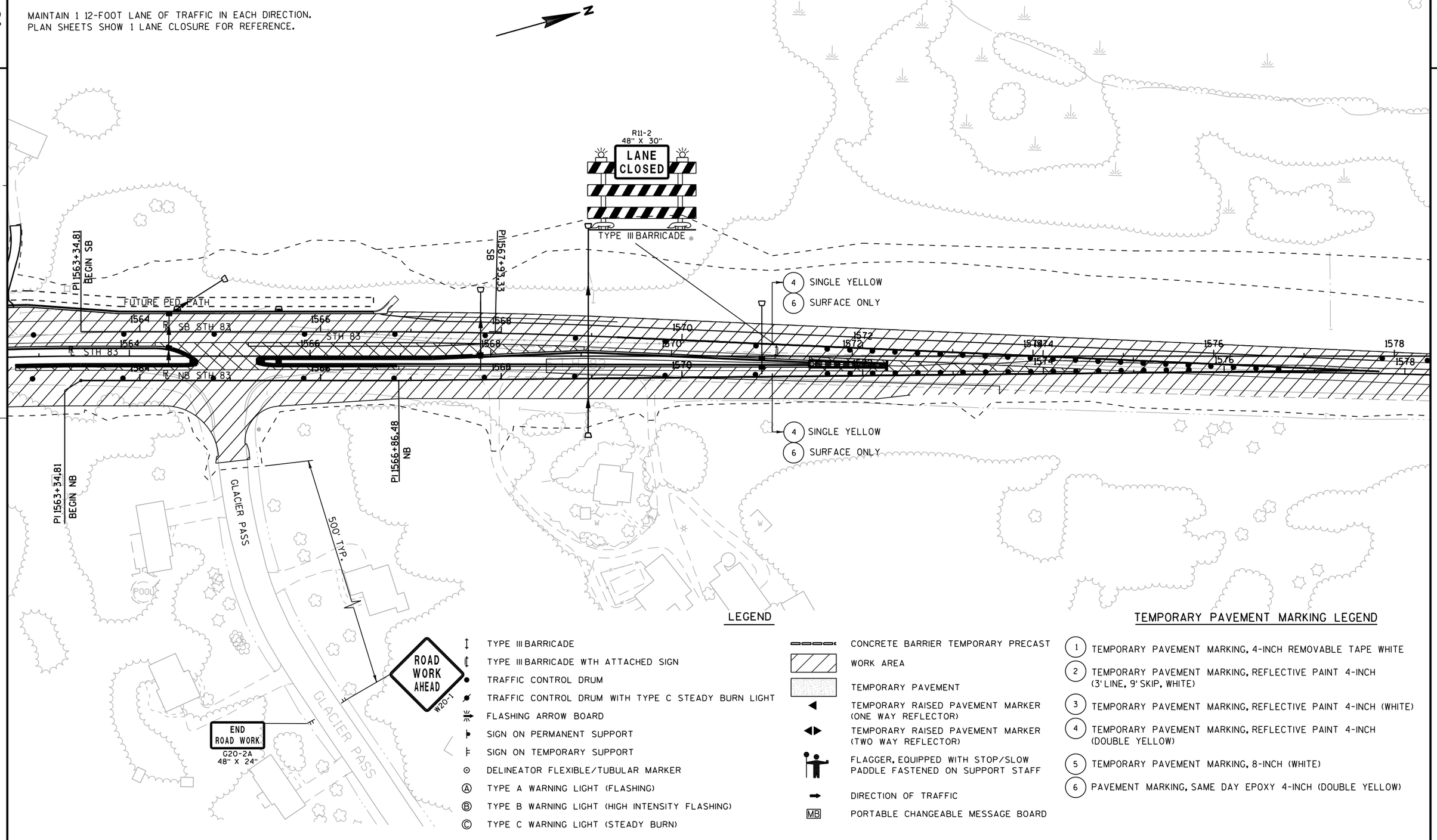
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET E

FILE NAME : J:\projects\d2_13301883\026311_S4.DGN
PLOT DATE : 30-JUL-2013 17:23
PLOT BY : ditj3s
PLOT NAME :
PLOT SCALE : 100:1
WISDOT/CADDS SHEET 42

STAGE 4

MAINTAIN 1 12-FOOT LANE OF TRAFFIC IN EACH DIRECTION.
PLAN SHEETS SHOW 1 LANE CLOSURE FOR REFERENCE.



LEGEND

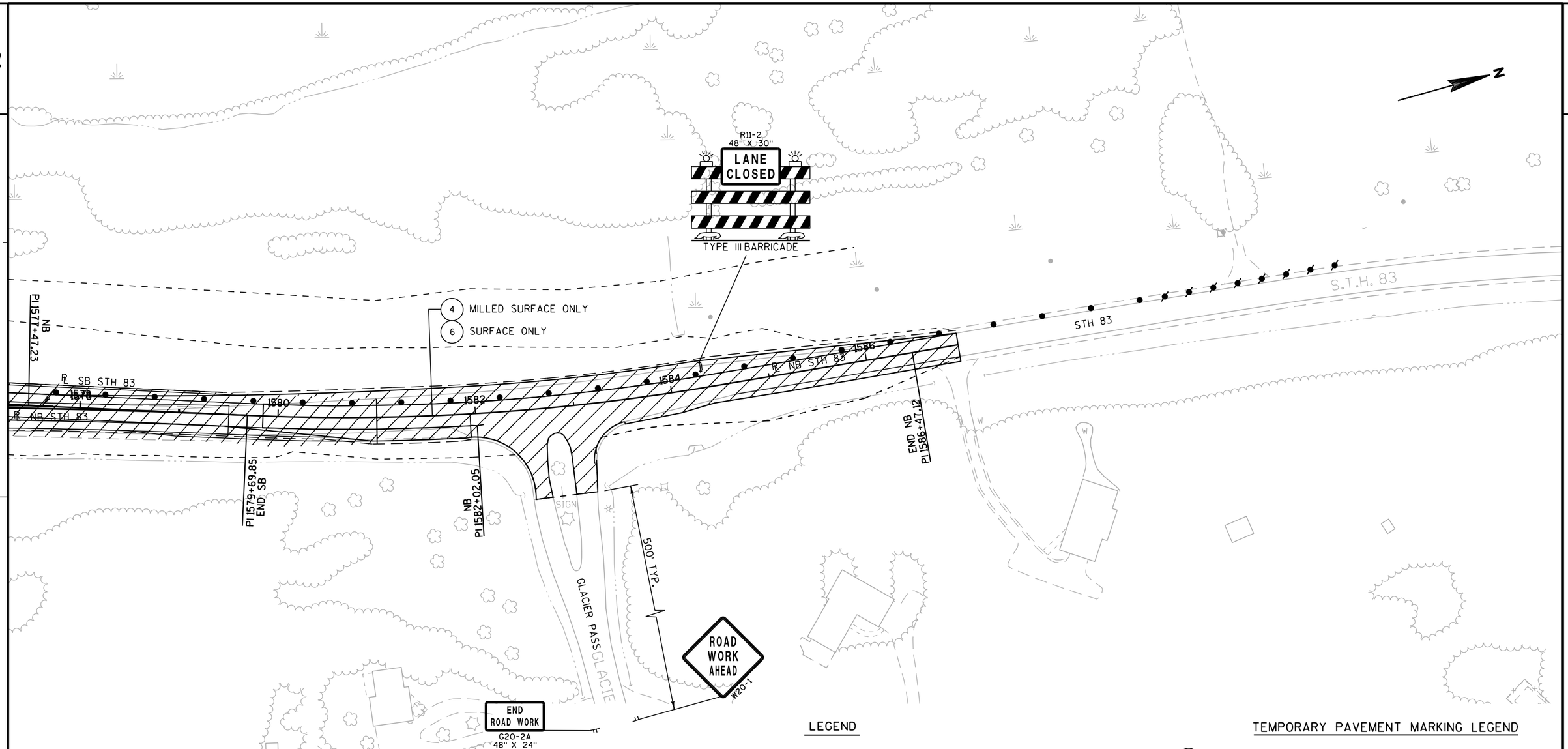
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 363 E

2



STAGE 4

MAINTAIN 1 12-FOOT LANE OF TRAFFIC IN EACH DIRECTION.
PLAN SHEETS SHOW 1 LANE CLOSURE FOR REFERENCE.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- (A) TYPE A WARNING LIGHT (FLASHING)
- (B) TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
- (C) TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- TEMPORARY PAVEMENT
- TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
- TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

TEMPORARY PAVEMENT MARKING LEGEND

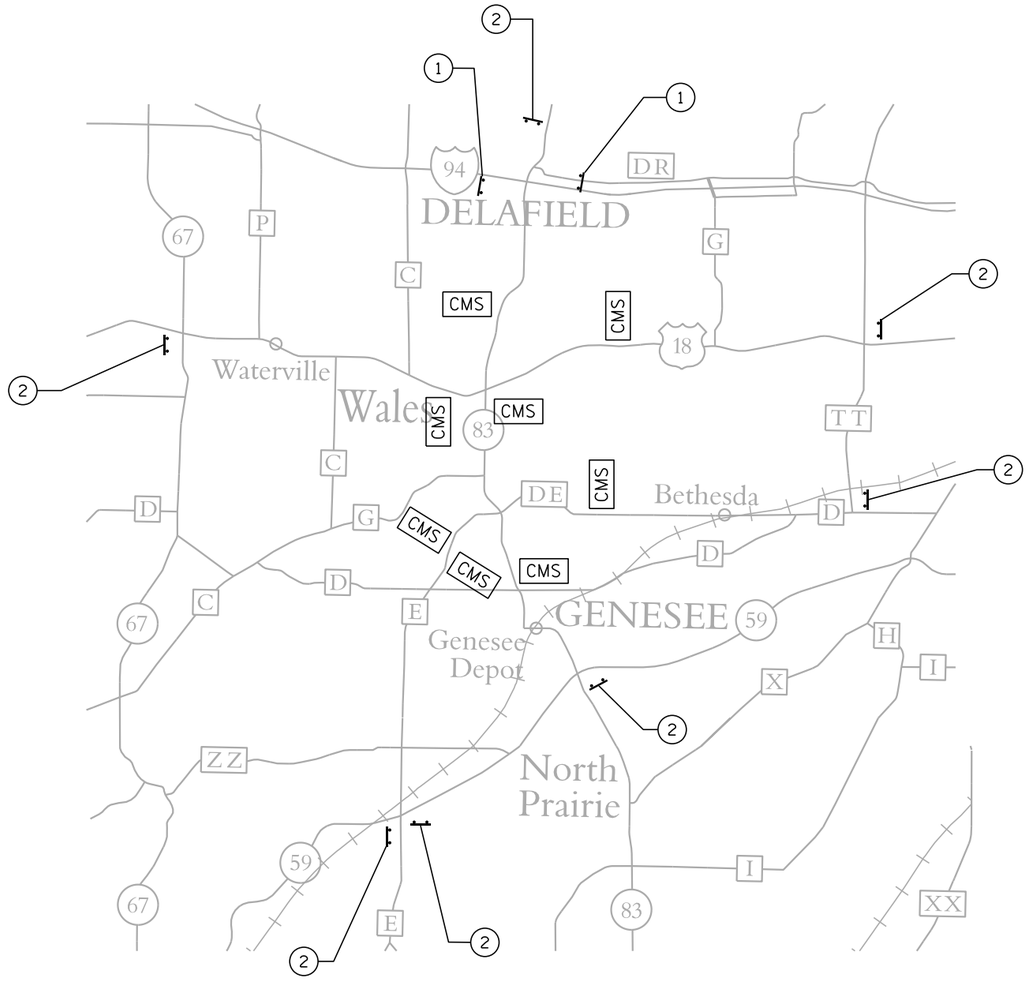
1. TEMPORARY PAVEMENT MARKING, 4-INCH REMOVABLE TAPE WHITE
2. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (3' LINE, 9' SKIP, WHITE)
3. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING, REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW)
5. TEMPORARY PAVEMENT MARKING, 8-INCH (WHITE)
6. PAVEMENT MARKING, SAME DAY EPOXY 4-INCH (DOUBLE YELLOW)

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC CONTROL STAGE 4	SHEET 364	E

FOR PLAN SHEETS

LEGEND: FIXED MESSAGE SIGNS

- EXISTING GUIDE SIGN TO BE COVERED
- FIXED MESSAGE SIGN(S) ON WOOD POST SUPPORTS
- (XX) FIXED MESSAGE SIGN NUMBER
- (A1) CONTRACTOR SHALL COVER AS DIRECTED BY THE ENGINEER ALL ROUTE MARKINGS PERTAINING TO THE PROJECT. INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.
- CMS CHANGEABLE MESSAGE SIGN (USE AS DIRECTED BY ENGINEER)



FIXED MESSAGE SIGNS

GENERAL NOTES:

1. ALL SIGNS TO HAVE FLUORESCENT REFLECTIVE SHEETING - REFERENCE: "WISDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION.
2. AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE PROJECT ENGINEER SHALL VERIFY EACH SIGN LOCATION.
3. ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"x6"). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN.
4. SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "FIXED MESSAGE SIGNS."
5. SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE FLUORESCENT REFLECTIVE BACKGROUND PER SPEC 643 & 637.
6. ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS:
   12" CAPS SHALL BE SERIES "D"
   6" CAPS SHALL BE SERIES "C"
7. BEGIN XXX XX SIGNS SHALL BE SEPARATE PANELS, BUT SHALL BE CONSIDERED AS PART OF THE SIGN AND SHOULD BE REMOVED OR COVERED AFTER THEIR EFFECTIVE DATE. THE MONTH AND DAY SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.
8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.
9. SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 643 & 637.
10. SIGNS TO BE IN PLACE 10 DAYS PRIOR TO CONSTRUCTION.

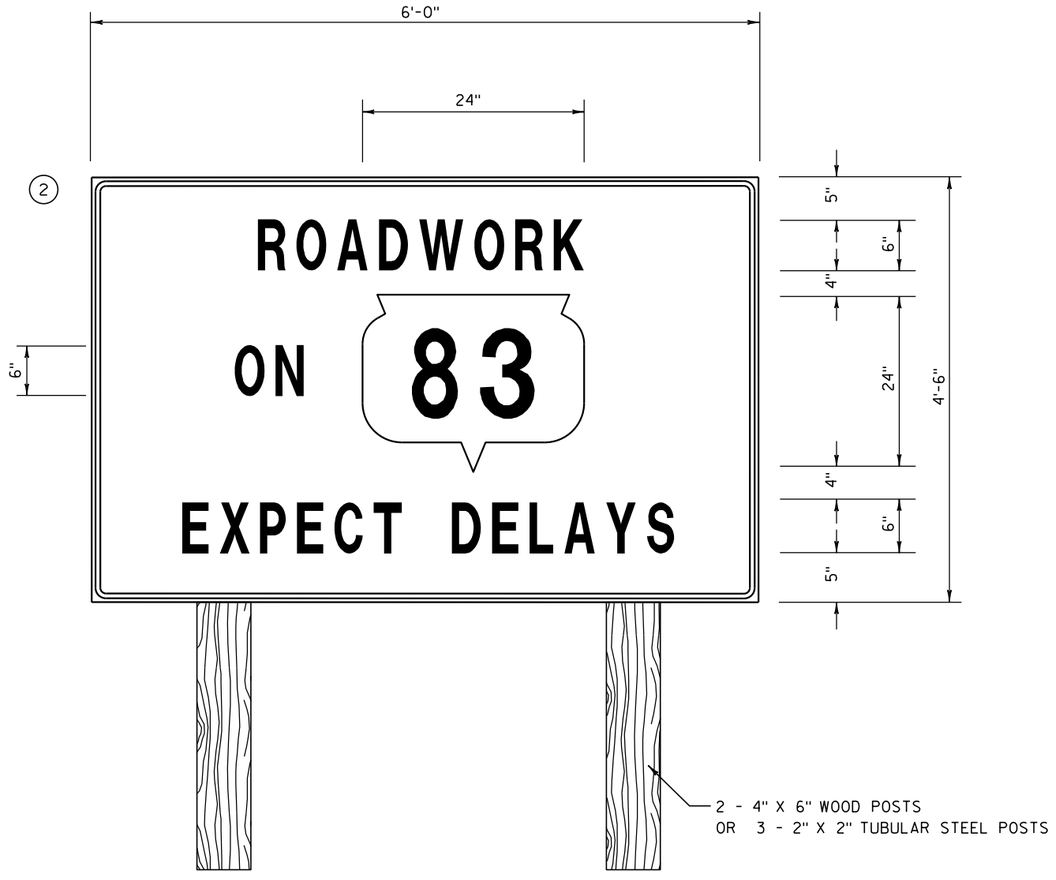
(X) = SIGN NUMBER

NOTES: FIXED MESSAGE SIGNS

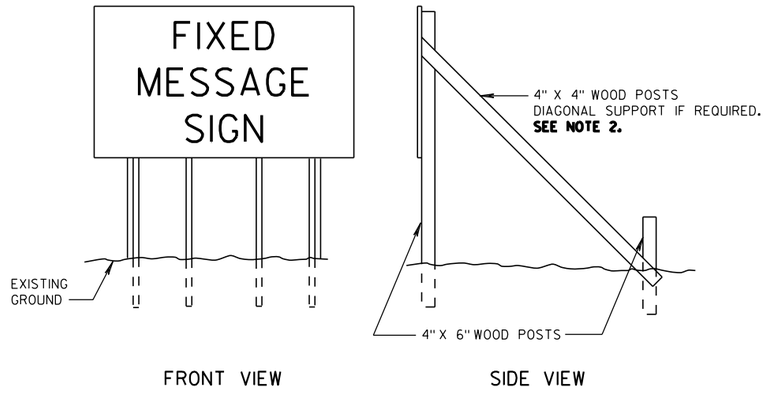
1. CONTRACTOR SHOULD LOCATE FIXED MESSAGE SIGNS A MINIMUM OF 400' FROM ANY EXISTING TYPE "I" SIGN.
2. ALL FIXED MESSAGE SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND.
3. SEE FIXED MESSAGE SIGNS AND SPECIAL MESSAGE SIGNS LAYOUT SHEETS FOR MORE INFORMATION.
4. COVER DETOUR SIGNING WHEN NOT IN USE. INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.
5. SIGNS TO BE PLACED 10 DAYS PRIOR TO CONSTRUCTION.

2

FIXED MESSAGE SIGN DETAIL



FIXED MESSAGE SIGN DETAIL



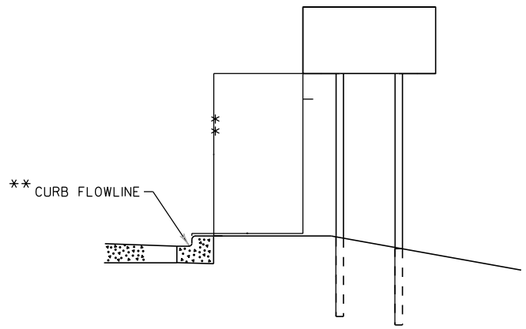
FRONT VIEW SIDE VIEW

NOTES

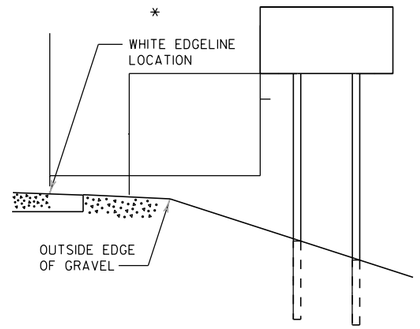
1. SEE TRAFFIC CONTROL SHEETS FOR SIGN LOCATIONS.
2. TWO DIAGONAL SUPPORTS TO BE INCLUDED FOR EACH SIGN OVER 12' LONG AND HIGHER THAN 8'. DIAGONAL SUPPORTS TO BE AFFIXED TO THE OUTSIDE SUPPORTS AND TO BE INCIDENTAL TO THE "TRAFFIC CONTROL FIXED MESSAGE SIGN" ITEM. IF DIAGONAL SUPPORTS ARE USED, SIGN TO BE SHIELDED BEHIND CONCRETE BARRIER OR PLACED OUTSIDE THE CLEAR ZONE.
3. SEE TABLES BELOW FOR REQUIRED NUMBER OF POSTS.

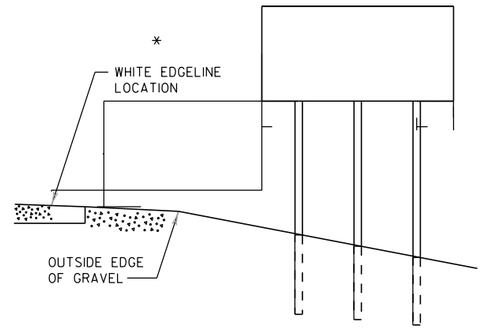
* 6' FROM EDGE OF A PAVED SHOULDER OR 12' FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) OR 2' FROM OUTSIDE EDGE OF GRAVEL, WHICHEVER IS GREATER UNLESS DIRECTED BY PROJECT ENGINEER. SEE NOTE 2 FOR OFFSET REQUIREMENTS WHERE DIAGONAL SUPPORTS ARE USED.

** 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. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5' MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.



URBAN AREA





RURAL 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'

POST MOUNTING DETAIL FOR TRAFFIC CONTROL FIXED MESSAGE SIGNS

TRAFFIC CONTROL NOTES

DETOUR PLAN TO BE USED DURING CONSTRUCTION STAGE 2

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

TYPE III BARRICADES SHALL HAVE TWO, TWO WAY TYPE "A" WARNING LIGHTS ON EACH BARRIER.

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

ALL SIGNS TO BE PROVIDED BY THE CONTRACTOR.

LEGEND

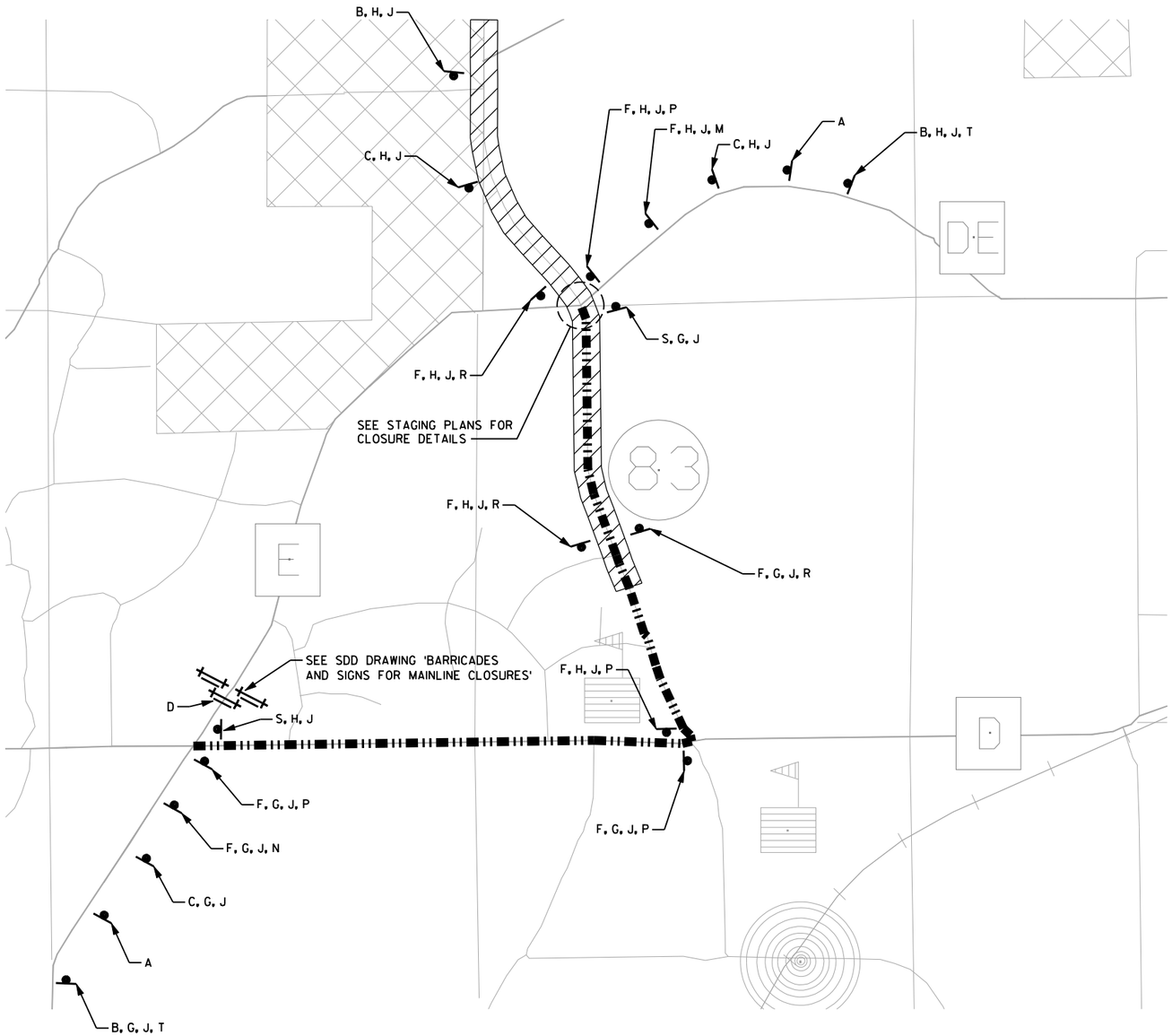
TYPE III BARRICADE WTH ATTACHED SIGN

SIGN ON PERMANENT SUPPORT

DETOUR ROUTE FOR CTH "E"/"DE"

WORK ZONE

N



A = ROAD CLOSED AHEAD W20-3

B = DETOUR AHEAD W20-2

C = DETOUR 1000 FT W20-2

D = ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-3
60" X 30"

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

F = DETOUR
M4-8
24" X 12"

G = EAST
M3-2
24" X 12"

H = WEST
M3-4
24" X 12"

J = COUNTY E
M1-5A
24" X 24"

K = COUNTY DE
M1-5A
24" X 24"

M = M05-1L
21" X 21"

N = M05-1R
21" X 21"

P = M06-1
21" X 21"

R = M06-1
21" X 21"

S = END DETOUR
M4-8A
24" X 18"

2

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	DETOUR PLAN - CTH E	SHEET 368	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_027001_dt.dgn
PLOT DATE : 7/16/2013 6:33:47 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 100.0000 FT / IN.
WISDOT/CADDS SHEET 42

2

TRAFFIC CONTROL NOTES

DETOUR PLAN TO BE USED DURING CONSTRUCTION STAGE 2

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

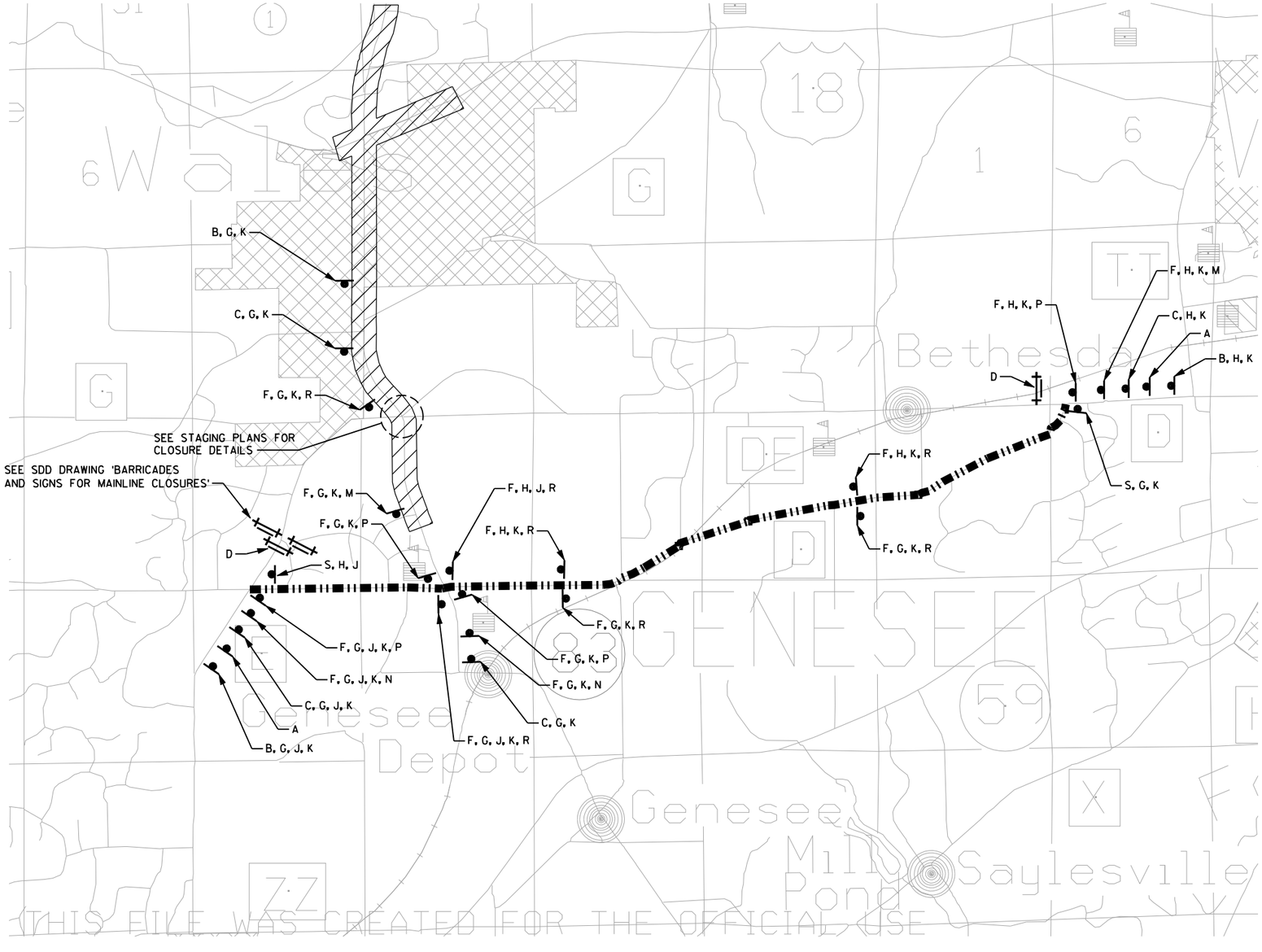
TYPE III BARRICADES SHALL HAVE TWO, TWO WAY TYPE "A" WARNING LIGHTS ON EACH BARRIER.

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

ALL SIGNS TO BE PROVIDED BY THE CONTRACTOR.

LEGEND

- TYPE III BARRICADE WTH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- DETOUR ROUTE FOR CTH "E"/"DE"
- WORK ZONE



A = ROAD CLOSED AHEAD W20-3

B = DETOUR AHEAD W20-2

C = DETOUR 1000 FT W20-2

D = ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-3
60" X 30"

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

F = DETOUR
M4-8
24" X 12"

G = EAST
M3-2
24" X 12"

H = WEST
M3-4
24" X 12"

J = COUNTY E
M1-5A
24" X 24"

K = COUNTY DE
M1-5A
24" X 24"

M = M05-1L
21" X 21"

N = M05-1R
21" X 21"

P = M06-1
21" X 21"

R = M06-1
21" X 21"

S = END DETOUR
M4-8A
24" X 18"

2

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	DETOUR DETOUR PLAN - CTH DE	SHEET 369	E

PI 83SRL
PI STA 598+70.75
Y 147642.32
X 644603.31
DA N 16°58'27" W

CURVE PERKINS RD.
PI STA 47+82.07
N 149486.99
E 643809.49
DELTA -18°30'40"
D 5°52'44.42"
R 974.58
T 158.82
L 314.87
LCH 313.50
LCB N 82°16'53" E
DB S 88°27'47" E
DA N 73°01'33" E
PC STA 46+23.25
N 149491.25
E 643650.73
PT STA 49+38.12
N 149533.36
E 643961.39

PI 47+82.07

PI PERKINS RD.
PI STA 50+00.00
Y= 149,551.43
X= 644,020.58

PERKINS RD.
48
N 73°01'33" E
PT 49+38.12
PI 50+00.00
PI SRL
N 17°39'21" W
614
616
S-R STH 83
618
620
622
N 16°58'27" W
624
626 S-R STH 83
628
CP62056

CONTROL POINTS

NO.	STATION	DESCRIPTION	ELEV.	N	E
62056	620+56	BERNTSEN FENO MON WITH MAG	973.07	149749.871	644021.279
		NAIL IN TOP			
		190' N OF INT OF PERKINS RD & STH 83			
		43' EAST OF E.O.P. OF STH 83			

PI 633+60.87
PI 50+28.61
CURVE S-R 610
628 N 16°58'27" W
S-R STH 83
630
632
634
636
638
640
642
N 1°42'43" E
PC 630+31.82
PT 636+84.09
LONDON DR.
N 89°58'47" E
52
PI 53+70.71

CURVE 83SRL 610
PI STA 633+60.87
Y 150980.40
X 643584.40
DELTA 18°41'10"
D 2°51'53"
R 2000.00
T 329.06
L 652.27
LCH 649.38
LCB N 7°37'52" W
DB N 16°58'27" W
DA N 1°42'43" E
PC STA 630+31.82
Y 150665.68
X 643680.47
PT STA 636+84.09
Y 151309.31
X 643594.23

PI LONDON DR.
PI STA. 50+28.61
Y= 150,971.61
X= 643,612.75

PI LONDON RD.
PI STA. 53+70.71
Y= 150,971.73
X= 643,954.85

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENTS	SHEET 370	E

PI 83SRL
PI STA 646+11.10
Y 152235.91
X 643621.93
DB S 1°42'43" E

POT 83RL
POT STA 1447+14.57
Y 152236.09
X 643615.86
DB N 1°43'17" E
DA N 1°43'17" E

CURVE 83.3
PI STA 1452+53.16
N 152774.44
E 643632.04
DELTA -46°53'12"
D 5°43'46"
R 1000.00
T 433.64
L 818.33
LCH 795.68
LCB N 21°43'19" W
DB N 1°43'17" E
DA N 45°09'55" W
PC STA 1448+19.53
N 152341.00
E 643619.01
PT STA 1456+37.85
N 153080.18
E 643324.53

CURVE CTH E
PI STA 8+07.55
N 152699.16
E 643335.53
DELTA -18°45'00"
D 7°45'00"
R 739.30
T 122.06
L 241.94
LCH 240.86
LCB N 76°36'31" E
DB N 85°59'01" E
DA N 67°14'01" E
PC STA 6+85.49
N 152690.61
E 643213.77
PT STA 9+27.43
N 152746.39
E 643448.08

PI CTH E
PI STA. 4+07.55
N= 152,671.14
E= 642,936.51

SEE ROUNDABOUT ALIGNMENTS

PI 50+00.00
644
S-R STH 83
N 1°42'43" W
646
POT 1447+14.57
N 1°43'17" E R STH 83
6.07
PI 646+11.10
6.07'
N 88°16'43.23" W
HARVEST VIEW DR.
S 89°16'52" E
CP64440
52
PC 51+89.11
54
PT 55+04.45

CURVE 83.3

N 85°59'01" E
56
PC 56+85.47
PI 57+52.11
58
PT 58+17.54
CTH E
N 67°14'01" E
PI 59+22.28
60
PI 60+00.28
PI 61+49.56
62
CTH DE
N 49°31'04" E
64
23.84

N
R STH 83
N 45°09'55" W
1460
CP146002
PI 458+56.27

POT CTH E & DE
POT STA. 10+17.79
N= 152,781.36
E= 643,531.40
AHD.= N 67°14'01" E

CONTROL POINTS

NO.	STATION	DESCRIPTION	ELEV.	N	E
64440	644+40	BERNTSEN FENO MON WITH	983.95	152061.655	643743.150
		MAG NAIL IN TOP			
		± 120' EAST FROM ℄ OF STH 83			
		39' N. FROM ℄ OF HARVEST VIEW LN			
146002	1460+02	BERNTSEN FENO MON WITH	989.14	153387.006	643121.154
		MAG NAIL IN TOP			
		± 70' N FROM DW S30 W31865			
		ALONG STH 83. 60' E OF E.O.P. OF STH 83			

PI HARVEST VIEW DR.
PI STA. 50+00.00
N= 152,024.63
E= 643,615.61

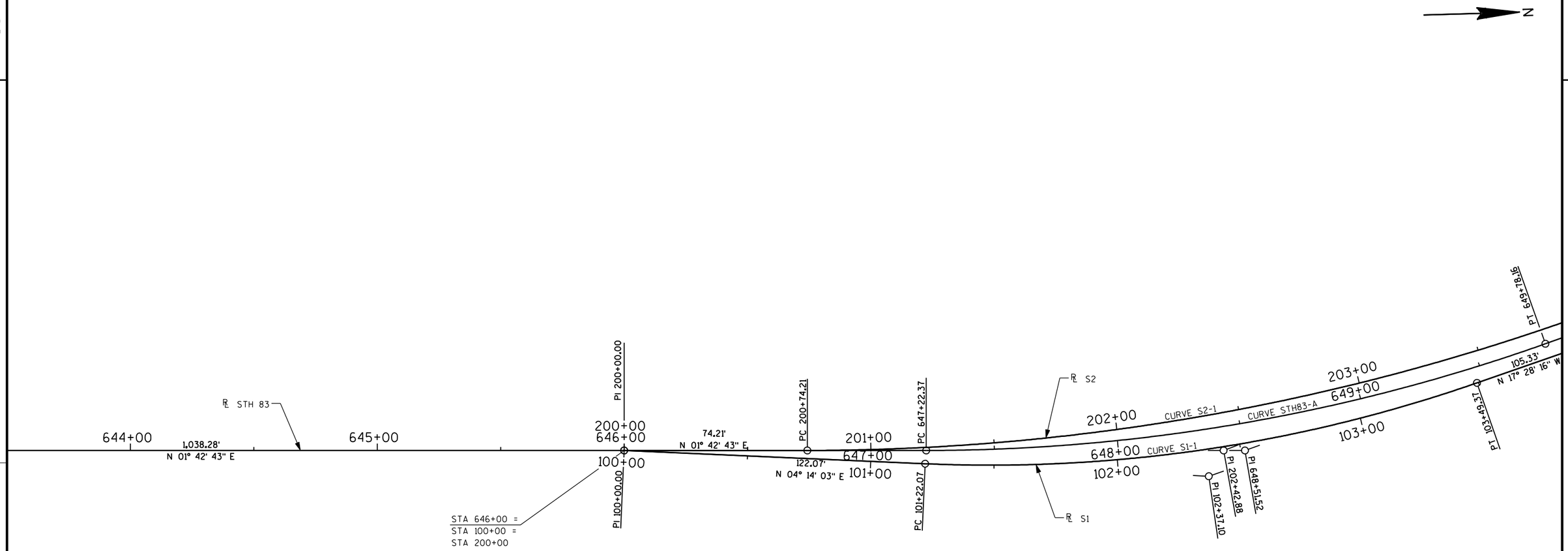
CURVE HARVEST VIEW DR.
PI STA 53+76.57
N 152019.90
E 643992.15
DELTA -77°52'36"
D 24°41'47"
R 232.00
T 187.46
L 315.33
LCH 291.62
LCB N 51°46'50" E
DB S 89°16'52" E
DA N 12°50'32" E
PC STA 51+89.11
N 152022.25
E 643804.71
PT STA 55+04.45
N 152202.67
E 644033.81

CURVE CTH DE
PI STA 11+71.93
N 152841.01
E 643673.53
DELTA -17°42'57"
D 7°00'00"
R 818.51
T 127.56
L 253.08
LCH 252.08
LCB N 58°22'32" E
DB N 67°14'01" E
DA N 49°31'04" E
PC STA 10+44.37
N 152791.65
E 643555.91
PT STA 12+97.45
N 152923.82
E 643770.55

PI CTH DE
PI STA. 17+96.61
N= 153,247.88
E= 644,150.22

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 371	E

2



CURVE STH83-A

P. I. = 648+51.52
N = 152 476.22
E = 643 629.11
Δ = 19° 32' 25"
D = 07° 38' 22"
T = 129.14'
L = 255.78'
R = 750.00'

PI STA 100+00.00

Δ = 02° 31' 20"
N = 152 224.82
E = 643 621.59

CURVE S1-1

P. I. = 102+37.10
N = 152 461.26
E = 643 639.10
Δ = 21° 42' 19"
D = 09° 32' 57"
T = 115.03'
L = 227.30'
R = 600.00'

CURVE S2-1

P. I. = 202+42.88
N = 152 467.59
E = 643 628.85
Δ = 20° 33' 32"
D = 06° 09' 39"
T = 168.66'
L = 333.70'
R = 930.00'

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 372	E

2

CURVE S1-2

P. I. = 104+80.34
N = 152 695.92
E = 643 565.25
Δ = 26° 14' 25"
D = 52° 05' 13"
T = 25.64'
L = 50.38'
R = 110.00'
P.T. = 105+05.07
N = 152 721.25
E = 643 569.16
DA = N 08° 46' 09" E

PI STA 651+76.54

Δ = 10° 45' 18"
N = 152 788.02
E = 643 528.83

CURVE S2-2

P. I. = 204+62.53
N = 152 678.90
E = 643 556.72
Δ = 18° 48' 52"
D = 24° 04' 26"
T = 39.43'
L = 78.15'
R = 238.00'
P.T. = 205+01.26
N = 152 710.11
E = 643 532.63
DA = N 37° 39' 41" W

PI STA 60+00.28

Δ = 07° 52' 58"
N = 152 788.02
E = 643 528.83

CURVE E1-2

P. I. = 908+95.64
N = 152 746.86
E = 643 431.54
Δ = 25° 10' 11"
D = 52° 05' 13"
T = 24.56'
L = 48.32'
R = 110.00'

PI STA 909+26.70

Δ = 00° 00' 00"
N = 152 745.61
E = 643 463.37

PI STA 59+22.28

Δ = 04° 24' 42"
N = 152 763.24
E = 643 454.87

CURVE E2-2

P. I. = 1008+70.44
N = 152 749.96
E = 643 408.08
Δ = 13° 12' 16"
D = 38° 11' 50"
T = 17.36'
L = 34.57'
R = 150.00'
P.C. = 1008+53.08
N = 152 743.19
E = 643 392.09
DB = N 67° 03' 55" E

PI STA 1009+23.57

Δ = 00° 00' 00"
N = 152 781.38
E = 643 451.11

CURVE S3-1

P. I. = 1160+96.59
N = 152 822.48
E = 643 619.97
Δ = 12° 31' 53"
D = 27° 17' 01"
T = 23.05'
L = 45.93'
R = 210.00'
P.C. = 1160+73.53
N = 152 804.98
E = 643 604.96
DB = N 40° 36' 36" E

CURVE E4-1

P. I. = 1261+18.19
N = 152 837.75
E = 643 631.31
Δ = 43° 11' 00"
D = 52° 05' 13"
T = 43.53'
L = 82.91'
R = 110.00'
P.C. = 1260+74.96
N = 152 839.08
E = 643 587.79
DB = S 88° 14' 45" E

PI STA 61+49.56

Δ = 10° 27' 12"
N = 152 854.41
E = 643 662.53

CURVE STH83-B

P. I. = 653+97.76
N = 152 982.28
E = 643 422.99
Δ = 16° 35' 00"
D = 07° 23' 35"
T = 112.95'
L = 224.31'
R = 775.00'

CURVE S3-1

P. I. = 352+74.64
N = 152 883.01
E = 643 491.89
Δ = 15° 34' 24"
D = 27° 56' 57"
T = 28.03'
L = 55.72'
R = 205.00'
P.C. = 352+46.61
N = 152 864.36
E = 643 512.82
DB = N 48° 18' 15" W

CURVE S4-1

P. I. = 452+85.61
N = 152 878.13
E = 643 474.17
Δ = 33° 56' 16"
D = 52° 05' 13"
T = 33.57'
L = 65.16'
R = 110.00'
P.C. = 452+52.04
N = 152 884.58
E = 643 475.11
DB = N 01° 36' 24" W

CURVE S3-2

P. I. = 354+31.40
N = 153 015.16
E = 643 406.94
Δ = 12° 26' 03"
D = 07° 24' 44"
T = 84.21'
L = 167.76'
R = 773.00'

CURVE S4-2

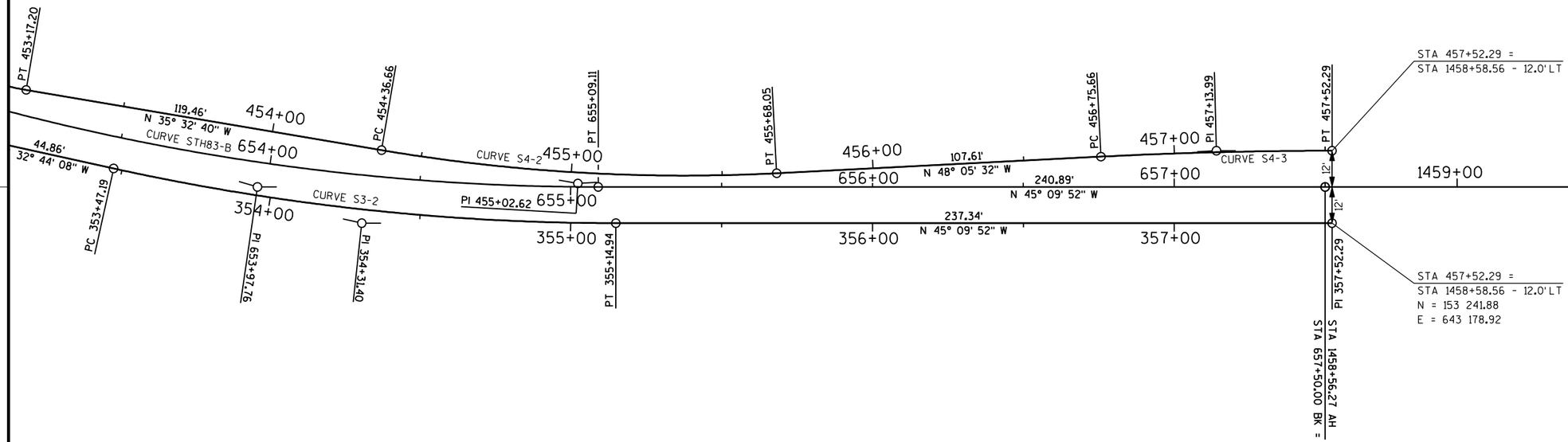
P. I. = 455+02.62
N = 153 056.31
E = 643 346.87
Δ = 12° 32' 51"
D = 09° 32' 57"
T = 65.96'
L = 131.40'
R = 600.00'

2

N

CURVE S4-3

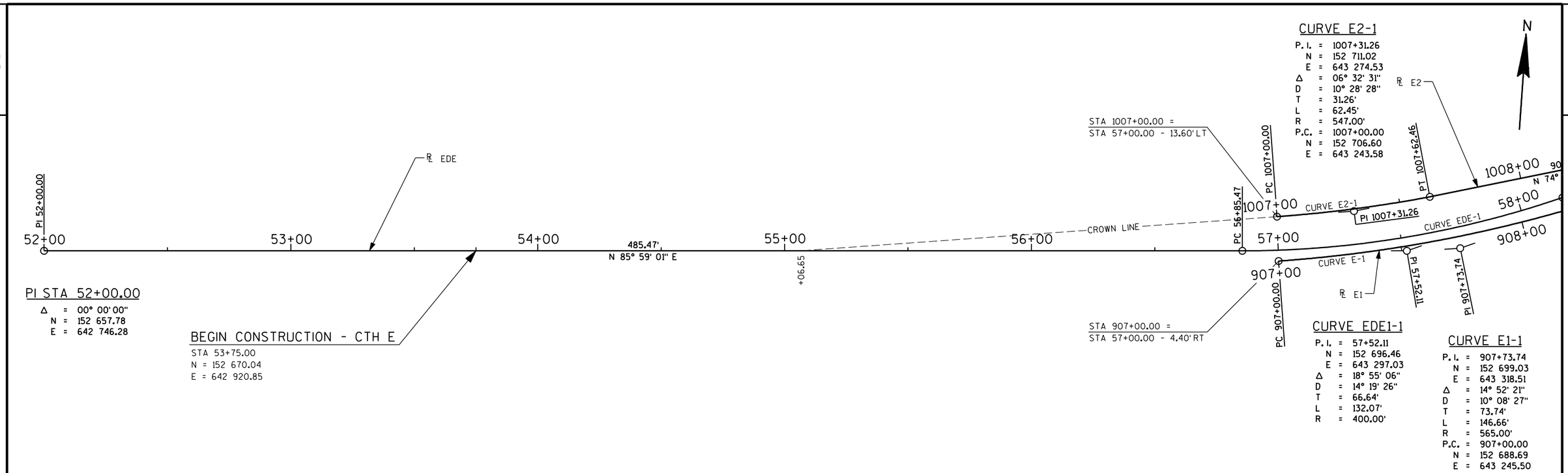
P.I. = 457+13.99
N = 153 197.84
E = 643 189.17
Δ = 02° 55' 37"
D = 03° 49' 11"
T = 38.32'
L = 76.63'
R = 1500.00'
P.T. = 457+52.29
N = 153 224.86
E = 643 161.99

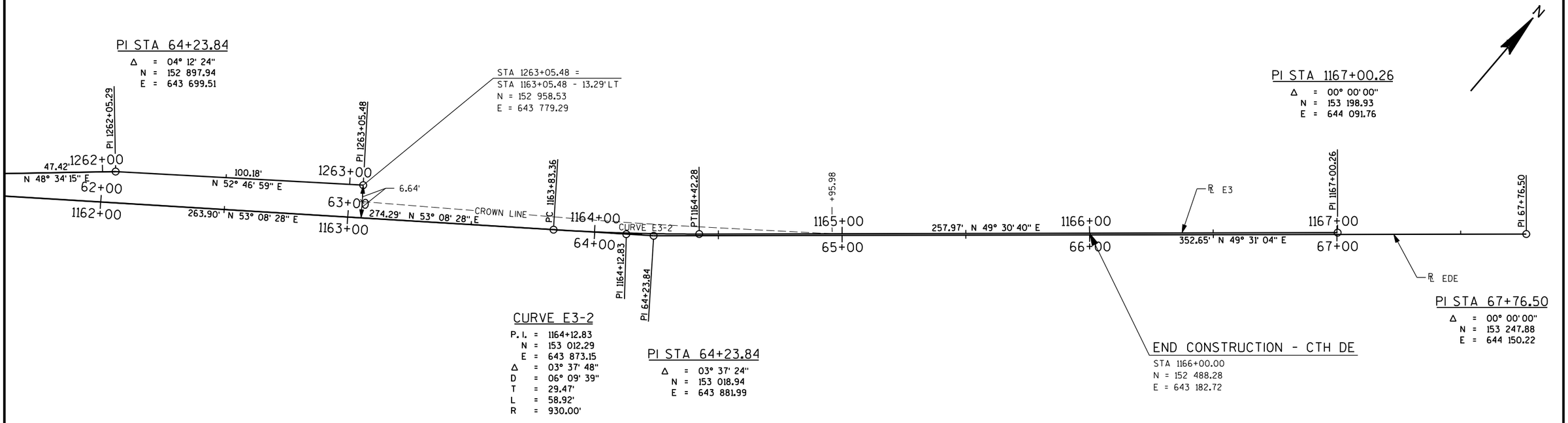


PI STA 657+50.00

Δ = 00° 00' 00"
N = 153 231.75
E = 643 172.09

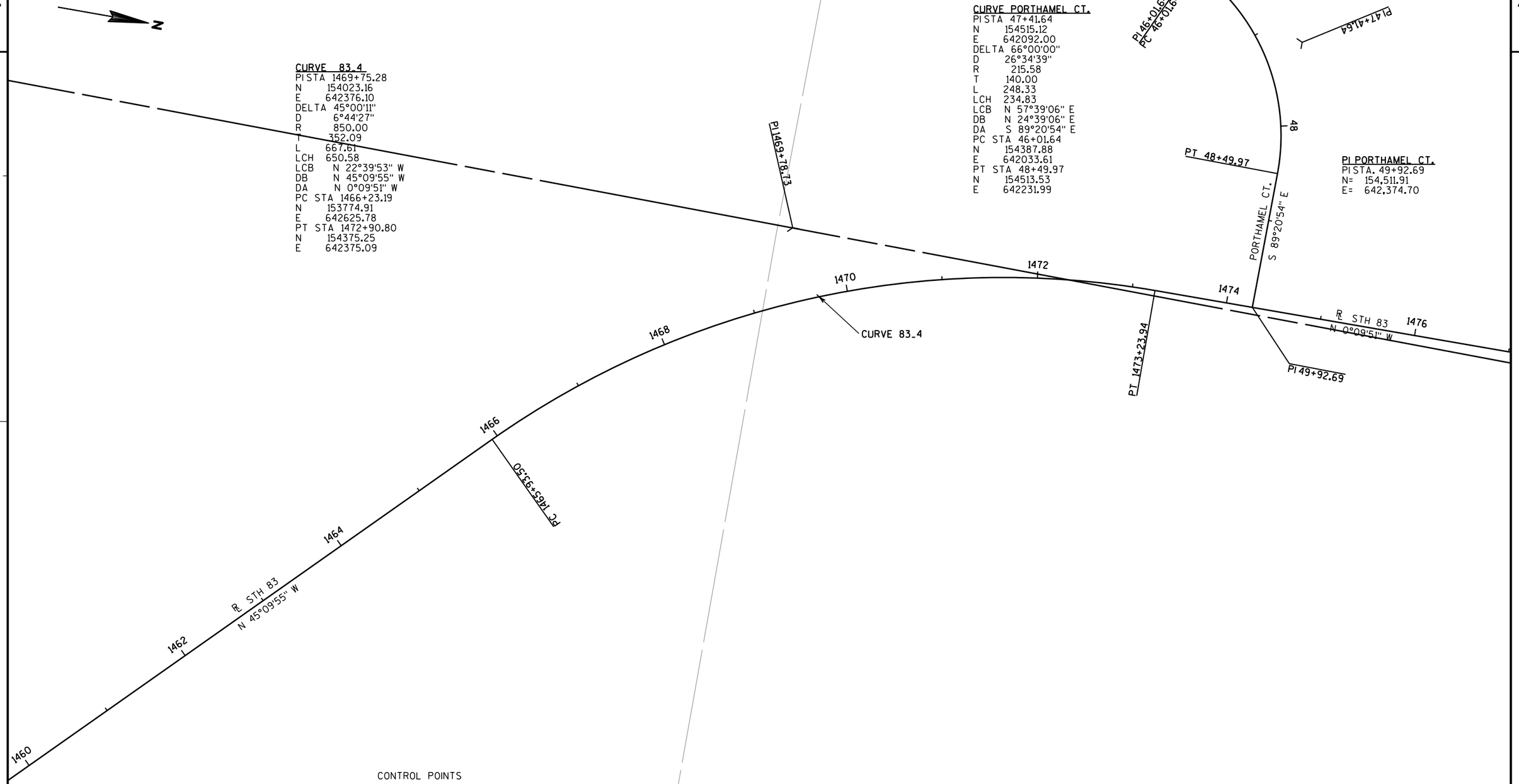
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 374	E





PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 375	E

2



CONTROL POINTS

NO.	STATION	DESCRIPTION	ELEV.	N	E
146002	1460+02	BERNTSEN FENO MON WITH	989.14	153387.006	643121.154
		MAG NAIL IN TOP			
		± 70' N FROM DW S30 W31865			
		ALONG STH 83. 60' E OF E.O.P. OF STH 83			

CP146002

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 376	E

FILE NAME : J:\projects\d2_13301883\027203_AD.DGN PLOT DATE : 30-JUL-2013 17:31 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

2

CONTROL POINTS

NO.	STATION	DESCRIPTION	ELEV.	N	E
147745	1477+45	BERNTSEN FENO MON WITH MAG	1021.52	154830.219	642451.836
		NAIL IN TOP. 75' FROM N EDGE OF S DW			
		AT WALES GENESSEE FIRE DEPT.			
		51' EAST OF E.O.P. OF STH 83			
148713	1487+13	BERNTSEN FENO MON WITH MAG	992.40	155784.695	642523.206
		NAIL IN TOP. 140' EAST FROM ℄			
		OF STH 83. 22' NORTH FROM ℄ OF			
		BRANDYBROOK RD. IN ROCK LINE ALONG EDGE OF FIELD.			
150057	1500+57	BERNTSEN FENO MON WITH MAG	993.62	157141.105	642533.495
		NAIL IN TOP. 120' EAST FROM ℄			
		OF STH 83. 43' NORTH FROM ℄			
		OF WELSH DR.			

PI CTH G
PI STA. 44+79.79
N= 155,305.21
E= 641,873.17
AHD= N 85°10'42" E

PI CTH G
PI STA. 49+80.71
N= 155,347.31
E= 642,372.31

CURVE 83.5
PI STA 1485+63.20
N 155647.64
E 642371.45
DELTA 5°59'55"
D 1°38'13"
R 3500.00
T 183.38
L 366.43
LCH 366.26
LCB N 2°50'07" E
DB N 0°09'51" W
DA N 5°50'04" E
PC STA 1483+79.82
N 155464.26
E 642371.97
PT STA 1487+46.24
N 155830.07
E 642390.09

N

48

CTH G

N 85°10'42" E

1478 ℄ STH 83 1480 1482 1484 1486 1488 ℄ STH 83 1490 1492

N 0°09'51" W

N 5°50'04" E

PI 1485+63.20

PI 49+81.13

PC 1490+54.04

PI 49+80.71

CP147745

SEC6044
Y=155324.93
X=642391.27
CONC. MON.
WITH SEMRPC
BRASS CAP

T 6 N
R 18 E
8 9
8 9

PC 1483+79.82

CURVE 83.5

50

PT 1487+46.25

BRANDYBROOK RD.
N 63°40'06" E

CP148713

52

PI BRANDYBROOK RD.
PI STA. 49+81.13
N= 155,688.62
E= 642,378.53
AHD=N 63°40'06" E

PI BRANDYBROOK RD.
PI STA. 59+26.32
N= 156,107.87
E= 643,225.65

PI WELSH RD. (WEST)
PI STA. 48+15.86
N= 157,106.17
E= 642,227.17
AHD.=N 89°10'12" E

PI WELSH RD. (WEST)
PI STA. 50+33.96
N= 157,109.33
E= 642,445.24

PI 48+15.86

N 89°10'12" E

WELSH RD. (WEST)

N

PI 50+33.96

PT 1495+09.47

PC 1496+89.91

PT 1499+19.29

CURVE 83.6

CURVE 83.7

50

1492 ℄ STH 83 1494 1496 1498 1500 1502 1504 ℄ STH 83 1506

N 5°50'04" E

N 0°36'57" E

N 1°15'43" W

PC 50+60.16

PI 1492+81.91

PI 1498+04.61

PI 50+34.46

89°21'25" E

CP150057

WELSH RD. (EAST)

52

PI 52+64.11

CURVE 83.6
PI STA 1492+81.91
N 156362.96
E 642444.54
DELTA -5°13'08"
D 1°08'45"
R 5000.00
T 227.87
L 455.42
LCH 455.26
LCB N 3°13'30" E
DB N 5°50'04" E
DA N 0°36'57" E
PC STA 1490+54.04
N 156136.27
E 642421.38
PT STA 1495+09.46
N 156590.82
E 642446.99

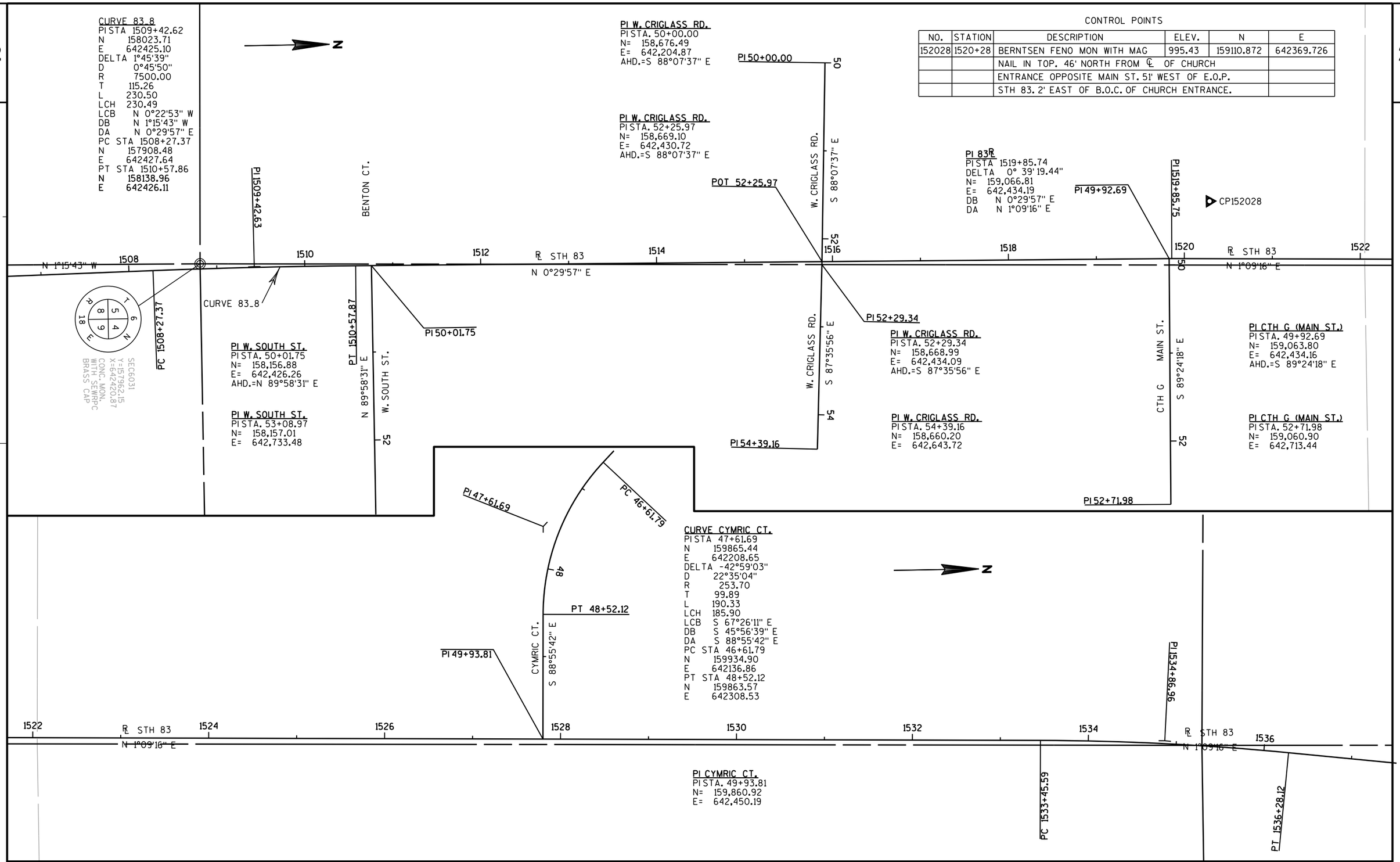
CURVE 83.7
PI STA 1498+04.61
N 156885.95
E 642450.16
DELTA -1°52'39"
D 0°49'07"
R 7000.00
T 114.70
L 229.38
LCH 229.37
LCB N 0°19'23" W
DB N 0°36'57" E
DA N 1°15'43" W
PC STA 1496+89.91
N 156771.25
E 642448.93
PT STA 1499+19.29
N 157000.62
E 642447.64

PI WELSH RD. (EAST)
PI STA. 50+34.46
N= 157,093.76
E= 642,445.59
AHD.=S 89°21'25" E

CURVE WELSH RD. (EAST)
PI STA 52+64.11
N 157091.18
E 642675.22
DELTA -54°03'20"
D 14°19'53"
R 399.79
T 203.95
L 377.18
LCH 363.35
LCB N 63°36'55" E
DB S 89°21'25" E
DA N 36°35'15" E
PC STA 50+60.16
N 157093.47
E 642471.29
PT STA 54+37.34
N 157254.94
E 642796.78

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 377	E

2



CONTROL POINTS

NO.	STATION	DESCRIPTION	ELEV.	N	E
152028	1520+28	BERNTSEN FENO MON WITH MAG	995.43	159110.872	642369.726
		NAIL IN TOP. 46' NORTH FROM ℄ OF CHURCH			
		ENTRANCE OPPOSITE MAIN ST. 51' WEST OF E.O.P.			
		STH 83. 2' EAST OF B.O.C. OF CHURCH ENTRANCE.			

2

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 378	E

PI PICK n SAVE
PI STA. 48+56.72
N= 160,887.44
E= 642,331.77
AHD.=S 88°48'44" E

PI PICK n SAVE
PI STA. 49+95.79
N= 160,884.56
E= 642,470.82

POT USH 18
POT STA. 49+61.04
N= 161,293.32
E= 642,479.86
AHD.=N 70°06'44" E

CURVE 83_9
PI STA 1542+10.13
N 161290.74
E 642479.00
DELTA 1°57'22"
D 1°06'07"
R 5200.00
T 88.78
L 177.54
LCH 177.53
LCB N 2°07'57" E
DB N 1°09'16" E
DA N 3°06'38" E
PC STA 1541+21.35
N 161201.98
E 642477.21
PT STA 1542+98.89
N 161379.39
E 642483.82

SEE ROUNDABOUT ALIGNMENTS

PI 48+56.72
PICK n SAVE
CP153867
PI 49+95.79
PI 1534+86.96
PC 1538+26.87
PT 1539+97.43
PI 1542+10.30
PI 1545+64.88
PC 1548+88.05
PI 1543+18.79
PC 1544+73.85
PT 1546+53.86
PI 1550+22.01
PI 1536+28.12
PT 1536+28.12
PI 1539+12.46
PI 80+08.60
PI 78+89.01
PI 78+42.50
CURVE 83_9
R STH 83
N 1°09'16" E
N 3°06'38" E
USH 18
1536
1538
1540
1542
1544
1546
1548
1550

SEC6018
Y=160609.85
X=642470.39
CONC. MON. WITH D.O.T. ALUMINUM CAP

CONTROL POINTS

NO.	STATION	DESCRIPTION	ELEV.	N	E
153867	1538+67	BERNTSEN FENO MON WITH MAG	995.21	160954.663	642374.884
		NAIL IN TOP. 68' NORTH FROM ℄ OF			
		ENTRANCE TO PICK N' SAVE/ KWIK TRIP			
		75' WEST OF B.O.C.			
155353	1553+53	BERNTSEN FENO MON WITH MAG	998.29	162414.523	642649.859
		NAIL IN TOP. 197' SOUTH OF E.O.P.			
		OF HIGH MEADOW LN.			
		130' EAST OF E.O.P. STH 83.			

PT HIGH MEADOW LN.
PT STA 48+63.38
N 162625.85
E 642374.33

PT 48+63.38
HIGH MEADOW LN.
S 89°02'06" E
PT 1551+55.57
POT 50+40.46
PI 1560+46.71
PI 1563+34.81
BEGIN SB
PI 150+02.56
PI 150+00.00
PC 1557+44.59
CURVE 83_10
PI 1563+34.81
BEGIN NB
PT 1563+46.41
GLACIER PASS
PC
R STH 83
N 3°06'38" E
R SB 83
R STH 83
N 15°38'57" E
R NB 83
1550
1552
1554
1556
1558
1560
1562
1564

SEC7161
Y=163325.17
X=642454.97
CONC. MON. WITH SEWRPC BRASS CAP

SEC6005
Y=163324.73
X=642516.12
CONC. MON. WITH SEWRPC BRASS CAP

POT HIGH MEADOW LN.
POT STA. 50+40.46
N= 162,622.87
E= 642,551.39

CP155353
PC 51+38.37
PT 52+29.88
PI 51+84.65
PI 53+16.88
S 68°03'46" E
HIGH MEADOW LN.

CURVE HIGH MEADOW LN.
PI STA 51+84.65
N 162620.44
E 642695.56
DELTA 20°58'20"
D 22°55'06"
R 250.00
T 46.27
L 91.51
LCH 91.00
LCB S 78°32'56" E
DB S 89°02'06" E
DA S 68°03'46" E
PC STA 51+38.38
N 162621.22
E 642649.29
PT STA 52+29.89
N 162603.15
E 642738.48

PI HIGH MEADOW LN.
PI STA. 53+16.89
N= 162,570.65
E= 642,819.18

CURVE 83_10
PI STA 1560+35.11
N 163113.05
E 642578.03
DELTA 12°32'20"
D 2°05'01"
R 2750.00
T 302.12
L 601.82
LCH 600.62
LCB N 9°22'48" E
DB N 3°06'38" E
DA N 15°38'57" E
PC STA 1557+33.00
N 162811.38
E 642561.64
PT STA 1563+34.81
N 163403.97
E 642659.52

SEE ROUNDABOUT ALIGNMENTS

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 379 E

2

N

PC 10+00.00

PI STA 100+00.00
Δ = 00° 00' 00"
N = 160 382.25
E = 642 255.94

11+00
PC 100+13.97
100+00
N 31° 04' 20" E
13.97'

12+00

CURVE GDM-1
P.I. = 12+69.005
N = 160 309.38
E = 642 397.44
Δ = 13° 03' 37"
D = 02° 26' 17"
T = 269.00'
L = 525.67'
R = 2,350.00'
P.C. = 10+00.00
N = 160 436.38
E = 642 160.30
DB = S 61° 49' 45" E

℄ GDM

CURVE GDM-1

PI 12+69.00

13+00

℄ STH 83

1531+00
1532+00
1,359.83'
N 1° 09' 15" E
1533+00
PC1533+45.58
1534+00
CURVE STH 83-B
PI 1534+86.96
1535+00
1536+00
PT1536+28.12
198.74'
N 6° 31' 44" E
1537+00

CURVE GDC-1
P.I. = 100+37.68
N = 160 414.52
E = 642 275.39
Δ = 60° 04' 56"
D = 139° 44' 45"
T = 23.71'
L = 42.99'
R = 41.00'

CURVE GDC-2
P.I. = 101+23.17
N = 160 412.71
E = 642 365.29
Δ = 90° 00' 00"
D = 139° 44' 45"
T = 41.00'
L = 64.40'
R = 41.00'

CURVE GDC-3
P.I. = 102+18.93
N = 160 526.04
E = 642 367.57
Δ = 17° 41' 53"
D = 54° 34' 03"
T = 16.35'
L = 32.43'
R = 105.00'

CURVE GDC-4
P.I. = 103+18.20
N = 160 620.24
E = 642 399.74
Δ = 13° 44' 06"
D = 54° 34' 03"
T = 12.65'
L = 25.17'
R = 105.00'

CURVE GDC-5
P.I. = 103+75.18
N = 160 677.11
E = 642 404.83
Δ = 14° 18' 28"
D = 54° 34' 03"
T = 13.18'
L = 26.22'
R = 105.00'

CURVE GDC-6
P.I. = 105+06.29
N = 160 806.67
E = 642 383.87
Δ = 105° 43' 09"
D = 163° 42' 08"
T = 46.21'
L = 64.58'
R = 35.00'

PI 100+37.68
CURVE GDC-1
PT 100+56.97
S 88° 50' 44" E
25.21'
PC 100+82.17
101+00
CURVE GDC-2
PT 101+46.57
56.01'
N 1° 09' 16" E
102+00
PC 102+02.58
PI 102+18.93
PT 102+35.02
CURVE GDC-3
70.54'
N 18° 51' 09" E
103+00
PC 103+05.56
CURVE GDC-4
PT 103+30.73
31.28'
N 5° 07' 03" E
PC 103+62.00
CURVE GDC-5
PT 103+88.22
104+00
71.86'
N 9° 11' 25" W
PC 104+60.08
CURVE GDC-6
105+00
PI 105+06.29
S 83° 28' 16" E
10.00'
PT 105+24.66
PI 105+34.66

PI 101+23.12

PI 103+18.20

PI 103+75.18

CURVE STH83-B
P.I. = 1534+86.96
N = 160 567.71
E = 642 464.43
Δ = 05° 22' 28"
D = 01° 54' 08"
T = 141.37'
L = 282.54'
R = 3,012.01'

PI STA 105+34.66
Δ = 00° 00' 00"
N = 160 800.28
E = 642 439.71

14+00
15+00
PT 15+35.67
S 48° 46' 08" E
80.63'
16+00
PI 16+16.30

PI STA 16+16.30
Δ = 00° 00' 00"
N = 160 078.94
E = 642 660.38

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 380	E

N

CURVE SBS-1

P. I. = 539+32.75
N = 161 012.18
E = 642 503.22
Δ = 15° 04' 42"
D = 07° 09' 43"
T = 105.88'
L = 210.53'
R = 800.00'
P.C. = 538+26.87
N = 160 906.99
E = 642 491.18
DB = N 06° 31' 44" E

PI STA 1543+18.79

Δ = 00° 00' 00"
N = 161 212.55
E = 642 473.10

CURVE SBN-1

P. I. = 543+07.15
N = 161 386.93
E = 642 480.67
Δ = 31° 24' 18"
D = 63° 39' 43"
T = 25.30'
L = 49.33'
R = 90.00'
P.C. = 542+81.85
N = 161 362.88
E = 642 472.81
DB = N 18° 05' 30" E

CURVE EBW-2

P. I. = 79+01.95
N = 161 276.09
E = 642 379.90
Δ = 38° 23' 54"
D = 63° 39' 43"
T = 31.34'
L = 60.32'
R = 90.00'
P.C. = 79+30.95
N = 161 269.24
E = 642 410.48
DB = S 77° 22' 26" E

CURVE WBW-2

P. I. = 578+83.18
N = 161 295.14
E = 642 351.32
Δ = 15° 00' 10"
D = 22° 55' 06"
T = 32.92'
L = 65.46'
R = 250.00'

PI STA 579+44.99

Δ = 00° 00' 00"
N = 161 310.30
E = 642 411.63

CURVE STH83-C

P. I. = 1539+12.46
N = 160 990.66
E = 642 512.84
Δ = 12° 02' 06"
D = 07° 03' 22"
T = 85.60'
L = 170.56'
R = 812.00'

PI STA 1542+10.30

Δ = 03° 53' 47"
N = 161 287.75
E = 642 484.20

PI STA 1543+18.79

Δ = 08° 43' 19"
N = 161 396.20
E = 642 481.15

PI STA 78+89.01

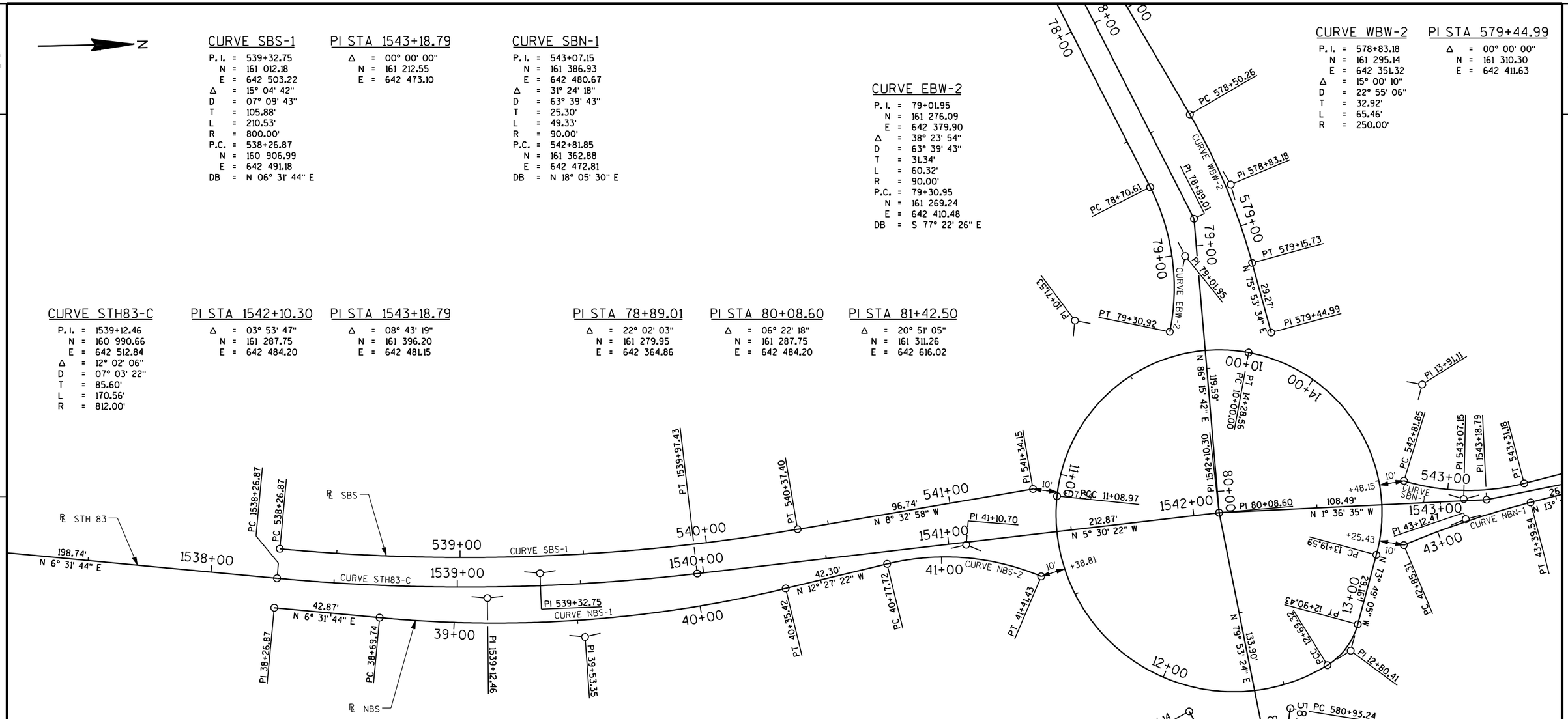
Δ = 22° 02' 03"
N = 161 279.95
E = 642 364.86

PI STA 80+08.60

Δ = 06° 22' 18"
N = 161 287.75
E = 642 484.20

PI STA 81+42.50

Δ = 20° 51' 05"
N = 161 311.26
E = 642 616.02



PI STA 1542+10.30

Δ = 00° 00' 00"
N = 160 904.26
E = 642 515.03

CURVE NBS-1

P. I. = 39+53.35
N = 161 029.92
E = 642 529.41
Δ = 18° 59' 06"
D = 11° 29' 33"
T = 83.60'
L = 165.68'
R = 500.00'

CURVE NBS-2

P. I. = 41+10.70
N = 161 185.06
E = 642 495.14
Δ = 36° 30' 17"
D = 57° 17' 45"
T = 32.98'
L = 63.71'
R = 100.00'
P.T. = 41+41.43
N = 161 215.17
E = 642 508.58
DA = N 24° 02' 55" E

CURVE NBN-1

P. I. = 43+12.47
N = 161 387.56
E = 642 488.84
Δ = 08° 18' 28"
D = 15° 19' 11"
T = 27.16'
L = 54.23'
R = 374.00'
P.C. = 42+85.31
N = 161 362.31
E = 642 488.84
DB = N 21° 36' 25" W

PI STA 80+79.14

Δ = 00° 00' 00"
N = 161 274.03
E = 642 564.54

CURVE EBE-1

P. I. = 81+51.82
N = 161 307.38
E = 642 629.11
Δ = 07° 23' 10"
D = 19° 05' 55"
T = 19.36'
L = 38.67'
R = 300.00'

CURVE WBE-1

P. I. = 581+27.96
N = 161 308.75
E = 642 598.26
Δ = 41° 21' 26"
D = 62° 16' 41"
T = 34.72'
L = 66.41'
R = 92.00'
P.C. = 580+93.24
N = 161 315.01
E = 642 564.11
DB = S 79° 36' 15" E

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 381	E

2

2

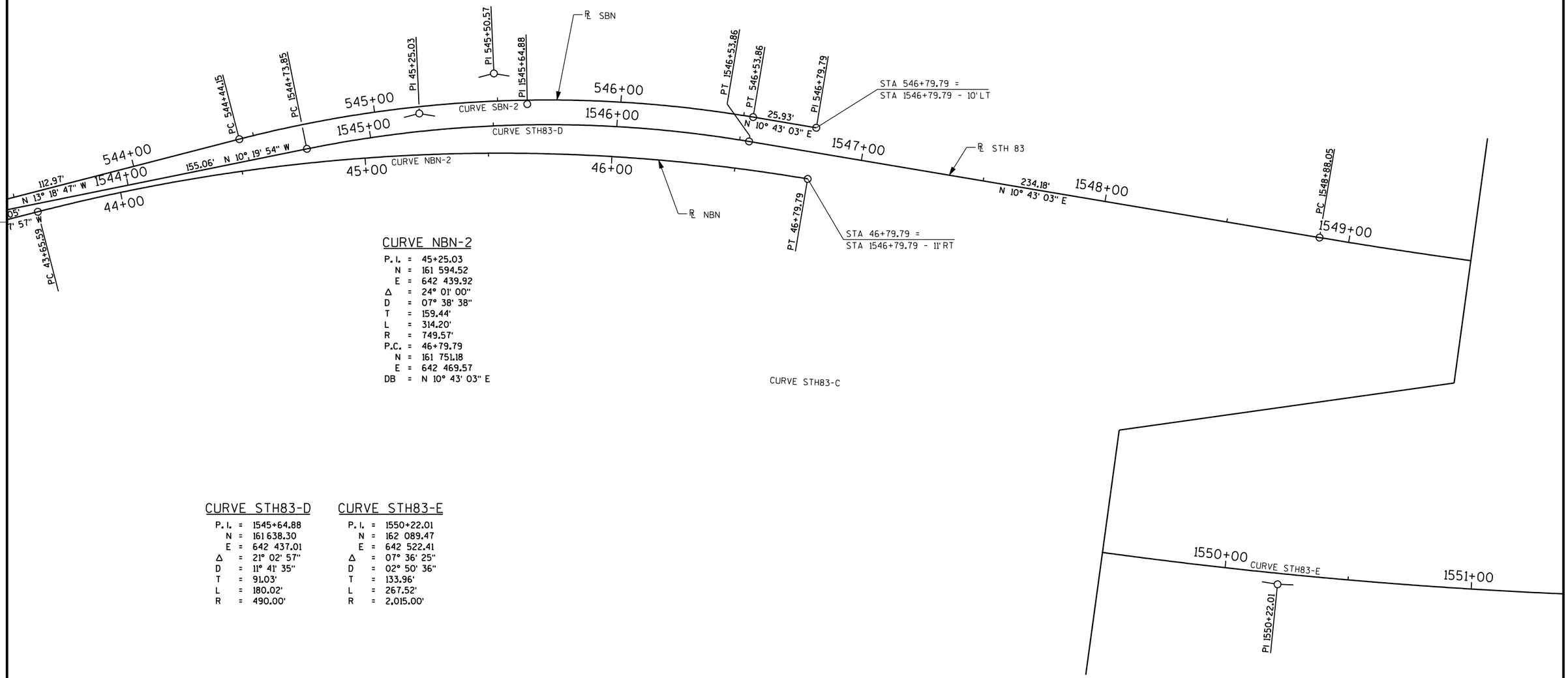
N

CURVE SBN-2

P. I. = 545+50.57
N = 161 625.04
E = 642 424.33
Δ = 24° 01' 50"
D = 11° 27' 33"
T = 106.42'
L = 209.71'
R = 500.00'

PI STA 546+79.79

Δ = 00° 00' 00"
N = 161 755.08
E = 642 448.94



CURVE NBN-2

P. I. = 45+25.03
N = 161 594.52
E = 642 439.92
Δ = 24° 01' 00"
D = 07° 38' 38"
T = 159.44'
L = 314.20'
R = 749.57'
P.C. = 46+79.79
N = 161 751.18
E = 642 469.57
DB = N 10° 43' 03" E

CURVE STH83-D

P. I. = 1545+64.88
N = 161 638.30
E = 642 437.01
Δ = 21° 02' 57"
D = 11° 41' 35"
T = 91.03'
L = 180.02'
R = 490.00'

CURVE STH83-E

P. I. = 1550+22.01
N = 162 089.47
E = 642 522.41
Δ = 07° 36' 25"
D = 02° 50' 36"
T = 133.96'
L = 267.52'
R = 2,015.00'

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 382	E

2

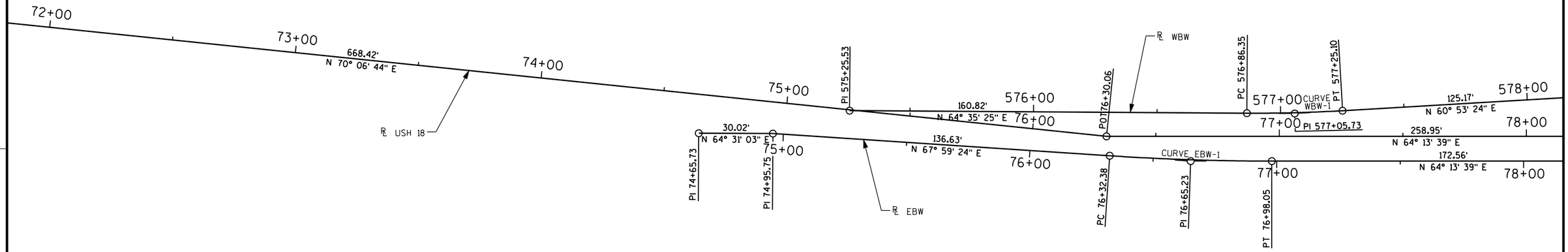
2

PI STA 69+61.64
Δ = 00° 00' 00"
N = 160 939.98
E = 641 503.12

PI STA 76+30.06
Δ = 05° 53' 04"
N = 161 167.36
E = 642 131.67

PI STA 575+25.53
Δ = 00° 00' 00"
N = 161 131.49
E = 642 033.50

CURVE WBW-1
P.I. = 577+05.73
N = 161 208.81
E = 642 196.27
Δ = 03° 42' 01"
D = 09° 32' 57"
T = 19.38'
L = 38.75'
R = 600.00'



PI STA 74"EBW"+65.73
Δ = 00° 00' 00"
N = 161 096.73
E = 641 982.48

PI STA 76"EBW"+95.75
Δ = 03° 28' 21"
N = 161 109.64
E = 642 009.58

CURVE EBW-1
P.I. = 76"EBW"+65.23
N = 161 173.16
E = 642 166.71
Δ = 03° 45' 45"
D = 05° 43' 46"
T = 32.85'
L = 65.67'
R = 1,000.00'

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 383	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_027210_ad.dgn
PLOT DATE : 4/29/2013 4:42:26 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 sf / IN.
WISDOT/CADDS SHEET 42

2

N

CURVE WBE-2

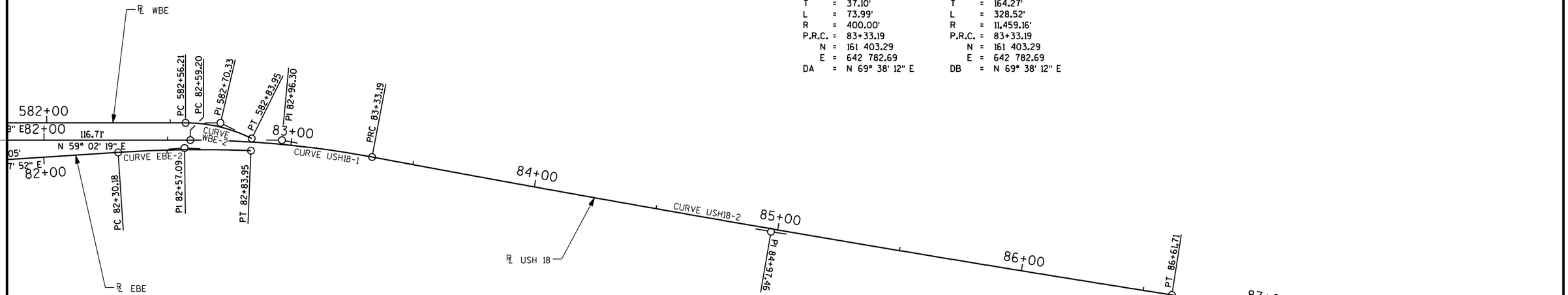
P.I. = 582+70.33
N = 161 383.56
E = 642 722.95
Δ = 26° 29' 12"
D = 95° 29' 35"
T = 14.12'
L = 27.74'
R = 60.00'
P.C. = 582+83.95
N = 161 384.66
E = 642 737.03
DA = N 85° 31' 31" E

CURVE USH18-1

P.I. = 82+96.30
N = 161 390.38
E = 642 747.91
Δ = 10° 35' 52"
D = 14° 19' 26"
T = 37.10'
L = 73.99'
R = 400.00'
P.R.C. = 83+33.19
N = 161 403.29
E = 642 782.69
DA = N 69° 38' 12" E

CURVE USH18-2

P.I. = 84+97.46
N = 161 460.46
E = 642 936.70
Δ = 01° 38' 33"
D = 00° 30' 00"
T = 164.27'
L = 328.52'
R = 11,459.16'
P.R.C. = 83+33.19
N = 161 403.29
E = 642 782.69
DB = N 69° 38' 12" E



CURVE EBE-2

P.I. = 82"EBE"+57.09
N = 161 367.35
E = 642 715.70
Δ = 06° 01' 04"
D = 11° 11' 26"
T = 26.91'
L = 53.77'
R = 512.00'
P.T. = 82"EBE"+83.95
N = 161 380.26
E = 642 739.31
DA = N 61° 18' 55" E

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 384	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_027211_ad.dgn
PLOT DATE : 4/29/2013 4:42:54 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 sf / IN.
WISDOT/CADDS SHEET 42

2

PI SB
PI STA 1563+34.81
N= 163,411.25
E= 642,633.53

CURVE SB_21
PI STA 1567+93.33
N 163852.77
E 642757.21
DELTA 2°34'22"
D 0°57'18"
R 6000.00
T 134.74
L 269.43
LCH 269.41
LCB N 16°56'09" E
DB N 15°38'57" E
DA N 18°13'20" E
PC STA 1566+58.59
N 163723.03
E 642720.86
PT STA 1569+28.02
N 163980.75
E 642799.34

CONTROL POINTS

NO.	STATION	DESCRIPTION	ELEV.	N	E
157124	1571+24	BERNTSEN FENO MON WITH MAG	997.48	164128.134	642958.329
		NAIL IN TOP. ± 120' NORTH OF DW			
		W319 S1234. 59' EAST OF E.O.P.			
		OF STH 83			
158639	1586+39	BERNTSEN FENO MON WITH MAG	964.34	165627.480	643199.136
		NAIL IN TOP. 347' NORTH OF			
		GLACIER PASS (NORTH ENTRANCE)			
		28' WEST OF E.O.P. STH 83			

PI GLACIER PASS (S)
PI STA. 50+02.56
N= 163,565.36
E= 642,704.73
AHD.=S 72°52'03" E

CURVE GLACIER PASS (S)
PI STA 52+27.69
N 163499.04
E 642919.87
DELTA -35°29'42"
D 11°04'23"
R 517.43
T 165.61
L 320.55
LCH 315.45
LCB N 89°23'06" E
DB S 72°52'03" E
DA N 71°38'15" E
PC STA 50+62.08
N 163547.82
E 642761.61
PT STA 53+82.63
N 163551.21
E 643077.05

PI 1563+34.81 BEGIN SB
PI 50+02.56
CURVE SB_21
PI 1567+93.33 SB
PI 1577+47.23 NB
R SB 83
R STH 83
R NB 83
27'
N 15°38'57" E
N 18°13'20" E
N 15°02'51" E
S 72°52'03" E
PC 50+62.09
PC 1566+58.59 SB
PI 1566+86.48 NB
PT 1569+28.02 SB
PT 1563+46.41
PI 1563+34.81 BEGIN NB
GLACIER PASS (S)
52
CP157124
PC 1575+25.48 NB
CURVE NB_21

PI NB
PI STA 1563+34.81
N= 163,396.69
E= 642,685.52

PI NB
PI STA 1566+86.48
DELTA -0°36'07"
N= 163,735.33
E= 642,780.39
DB N 15°38'57"
DA N 15°02'51" E

N
PI 1577+47.23 NB
PC 1579+68.88 NB
PC 1580+53.58
PT 1584+27.15 NB
PT 1584+33.48 NB
CURVE NB_22
CURVE 83_11
PI 49+70.58
CP158639
R STH 83
R NB 83
N 15°38'57" E
N 18°13'23" E
N 6°07'23" E
N 7°05'16" E
PC 1590+20.29
CURVE 83_12
PI 1579+68.88 NB
PI 1579+69.85 END SB
PI 1582+02.05 NB
PI 1582+40.72
PI 1586+47.12 END NB
S 83°27'23" E
PC 51+21.58
POT 49+99.63
PI 52+24.02

CURVE NB_21
PI STA 1577+47.23
N 164759.70
E 643055.78
DELTA 3°10'32"
D 0°42'58"
R 8000.00
T 221.76
L 443.40
LCH 443.34
LCB N 16°38'07" E
DB N 15°02'51" E
DA N 18°13'23" E
PC STA 1575+25.48
N 164545.55
E 642998.21
PT STA 1579+68.88
N 164970.34
E 643125.13

PI SB
PI STA 1579+69.85
N= 164,970.34
E= 642,125.13

CURVE NB_22
PI STA 1582+02.05
N 165191.81
E 643198.04
DELTA -12°06'00"
D 2°36'16"
R 2200.00
T 233.17
L 464.61
LCH 463.75
LCB N 12°10'23" E
DB N 18°13'23" E
DA N 6°07'23" E
PC STA 1579+68.88
N 164970.34
E 643125.13
PT STA 1584+33.48
N 165423.66
E 643222.91

CURVE 83_11
PI STA 1582+29.12
N 165228.06
E 643170.51
DELTA -8°33'42"
D 2°17'31"
R 2500.00
T 187.13
L 373.57
LCH 373.22
LCB N 11°22'07" E
DB N 15°38'57" E
DA N 7°05'16" E
PC STA 1580+41.99
N 165047.86
E 643120.03
PT STA 1584+15.56
N 165413.76
E 643193.60

PI NB
PI STA 1586+47.12
N= 165,636.07
E= 643,245.70

PI GLACIER PASS (N)
PI STA. 49+70.58
N= 165,272.16
E= 643,171.86
AHD.=S 83°27'23" E

PI GLACIER PASS (N)
POT STA. 49+99.63
N= 165,268.85
E= 643,200.72

CURVE GLACIER PASS (N)
PI STA 52+24.02
N 165243.27
E 643423.64
DELTA -7°28'18"
D 3°39'08"
R 1568.83
T 102.44
L 204.58
LCH 204.44
LCB S 87°11'32" E
DB S 83°27'23" E
DA N 89°04'20" E
PC STA 51+21.58
N 165254.95
E 643321.88
PT STA 53+26.16
N 165244.93
E 643526.06

CURVE 83_12
PI STA 1594+10.60
N 166401.19
E 643316.38
DELTA 14°46'26"
D 1°50'54"
R 3100.00
T 401.90
L 799.35
LCH 797.13
LCB N 14°28'29" E
DB N 7°05'16" E
DA N 21°51'42" E
PC STA 1590+08.69
N 166002.36
E 643266.79
PT STA 1598+08.04
N 166774.19
E 643466.03

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	ALIGNMENT	SHEET 385 E

DATE 02OCT13 E S T I M A T E O F Q U A N T I T I E S

LINE 1330-18-70

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	CLEARING	STA	141.000	141.000
0020	201.0205	GRUBBING	STA	141.000	141.000
0030	203.0100	REMOVING SMALL PIPE CULVERTS	EACH	44.000	44.000
0040	203.0200	REMOVING OLD STRUCTURE (STATION) 02. 1531+50	LS	1.000	1.000
0050	203.0200	REMOVING OLD STRUCTURE (STATION) 05. 1483+00 RT	LS	1.000	1.000
0060	204.0100	REMOVING PAVEMENT	SY	47.000	47.000
0070	204.0110	REMOVING ASPHALTIC SURFACE	SY	9,163.000	9,163.000
0080	204.0125	REMOVING ASPHALTIC SURFACE MILLING	TON	1,745.000	1,745.000
0090	204.0150	REMOVING CURB & GUTTER	LF	11,216.000	11,216.000
0100	204.0155	REMOVING CONCRETE SIDEWALK	SY	1,476.000	1,476.000
0110	204.0165	REMOVING GUARDRAIL	LF	1,788.000	1,788.000
0120	204.0170	REMOVING FENCE	LF	145.000	145.000
0130	204.0195	REMOVING CONCRETE BASES	EACH	25.000	25.000
0140	204.0220	REMOVING INLETS	EACH	8.000	8.000
0150	204.0235	REMOVING BUILDINGS (PARCEL) 01. (PARCEL 8)	LS	1.000	1.000
0160	204.0235	REMOVING BUILDINGS (PARCEL) 02. (PARCEL 42)	LS	1.000	1.000
0170	204.0245	REMOVING STORM SEWER (SIZE) 01. 12-INCH	LF	153.000	153.000
0180	204.0245	REMOVING STORM SEWER (SIZE) 02. 15-INCH	LF	8.000	8.000
0190	204.0245	REMOVING STORM SEWER (SIZE) 03. 18-INCH	LF	104.000	104.000
0200	204.0245	REMOVING STORM SEWER (SIZE) 04. 24-INCH	LF	120.000	120.000
0210	204.0245	REMOVING STORM SEWER (SIZE) 05. 34X54-INCH	LF	107.000	107.000
0220	205.0100	EXCAVATION COMMON **P**	CY	140,990.000	140,990.000
0230	205.0300	EXCAVATION STONE PILES AND STONE FENCES	CY	30.000	30.000
0240	205.0501.S	EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	TON	1,700.000	1,700.000
0250	206.1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. B-67-317	LS	1.000	1.000
0260	206.1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 02. B-67-329	LS	1.000	1.000
0270	206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS (STRUCTURE) 03. R-67-102	LS	1.000	1.000
0280	206.6000.S	TEMPORARY SHORING	SF	4,710.000	4,710.000
0290	210.0100	BACKFILL STRUCTURE	CY	2,980.000	2,980.000
0300	211.0400	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	STA	14.000	14.000
0310	213.0100	FINISHING ROADWAY (PROJECT) 01. 1330-18-70	EACH	1.000	1.000
0320	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	1,806.000	1,806.000
0330	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	136,169.000	136,169.000
0340	310.0110	BASE AGGREGATE OPEN GRADED	TON	33.000	33.000
0350	311.0110	BREAKER RUN	TON	33,693.000	33,693.000
0360	312.0115	SELECT CRUSHED MATERIAL	CY	440.000	440.000
0370	405.0100	COLORING CONCRETE RED	CY	111.000	111.000
0380	415.0060	CONCRETE PAVEMENT 6-INCH	SY	499.000	499.000
0390	415.0410	CONCRETE PAVEMENT APPROACH SLAB	SY	396.000	396.000
0400	416.0270	CONCRETE DRIVEWAY HES 7-INCH	SY	645.000	645.000
0410	416.0508	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH	SY	497.000	497.000
0420	416.0610	DRILLED TIE BARS	EACH	12.000	12.000
0430	416.1010	CONCRETE SURFACE DRAINS	CY	25.000	25.000
0440	440.4410.S	INCENTIVE IRI RIDE	DOL	20,000.000	20,000.000
0450	455.0115	ASPHALTIC MATERIAL PG64-22	TON	1,715.000	1,715.000

3

DATE 02OCT13 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	1330-18-70 QUANTITY
0460	455.0120	ASPHALTIC MATERIAL PG64-28	TON	920.000	920.000
0470	455.0605	TACK COAT	GAL	4,852.000	4,852.000
0480	460.1103	HMA PAVEMENT TYPE E-3	TON	46,806.000	46,806.000
0490	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	46,806.000	46,806.000
0500	465.0105	ASPHALTIC SURFACE	TON	2,498.000	2,498.000
0510	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	749.000	749.000
0520	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	3,067.000	3,067.000
0530	465.0310	ASPHALTIC CURB	LF	600.000	600.000
0540	502.0100	CONCRETE MASONRY BRIDGES	CY	1,275.000	1,275.000
0550	502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,100.000	1,100.000
0560	502.5010	MASONRY ANCHORS TYPE L NO. 6 BARS	EACH	25.000	25.000
0570	503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	1,313.000	1,313.000
0580	504.0500	CONCRETE MASONRY RETAINING WALLS	CY	522.000	522.000
0590	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	52,490.000	52,490.000
0600	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	94,700.000	94,700.000
0610	505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	48,530.000	48,530.000
0620	505.0905	BAR COUPLERS NO. 5	EACH	50.000	50.000
0630	505.0906	BAR COUPLERS NO. 6	EACH	62.000	62.000
0640	506.0605	STRUCTURAL STEEL HS	LB	28,070.000	28,070.000
0650	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	26.000	26.000
0660	506.4000	STEEL DIAPHRAGMS (STRUCTURE) 01. B-67-317	EACH	12.000	12.000
0670	506.4000	STEEL DIAPHRAGMS (STRUCTURE) 02. B-67-329	EACH	10.000	10.000
0680	513.4090	RAILING TUBULAR SCREENING (STRUCTURE) 03. R-67-102	LS	1.000	1.000
0690	513.7020	RAILING STEEL TYPE C4 (STRUCTURE) 01. B-67-317	LS	1.000	1.000
0700	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	121.000	121.000
0710	517.0600	PAINTING EPOXY SYSTEM (STRUCTURE) 03. R-67-102	LS	1.000	1.000
0720	517.1010.S	CONCRETE STAINING (STRUCTURE) 01. B-67-317	SF	2,280.000	2,280.000
0730	517.1010.S	CONCRETE STAINING (STRUCTURE) 02. B-67-329	SF	2,220.000	2,220.000
0740	517.1010.S	CONCRETE STAINING (STRUCTURE) 03. R-67-102	SF	695.000	695.000
0750	517.1010.S	CONCRETE STAINING (STRUCTURE) 04. R-67-103	SF	2,385.000	2,385.000
0760	517.1010.S	CONCRETE STAINING (STRUCTURE) 05. R-67-104	SF	280.000	280.000
0770	517.1010.S	CONCRETE STAINING (STRUCTURE) 06. R-67-107	SF	1,430.000	1,430.000
0780	517.1015.S	CONCRETE STAINING MULTI-COLOR (STRUCTURE) 01. B-67-317	SF	2,785.000	2,785.000
0790	517.1015.S	CONCRETE STAINING MULTI-COLOR (STRUCTURE) 02. B-67-329	SF	2,245.000	2,245.000
0800	517.1015.S	CONCRETE STAINING MULTI-COLOR (STRUCTURE) 03. R-67-102	SF	1,965.000	1,965.000
0810	517.1015.S	CONCRETE STAINING MULTI-COLOR (STRUCTURE) 04. R-67-103	SF	5,365.000	5,365.000
0820	517.1015.S	CONCRETE STAINING MULTI-COLOR (STRUCTURE) 05. R-67-104	SF	565.000	565.000

3

DATE 02OCT13 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	1330-18-70 QUANTITY
0830	517.1015.S	CONCRETE STAINING MULTI-COLOR (STRUCTURE) 06. R-67-107	SF	4,150.000	4,150.000
0840	517.1050.S	ARCHITECTURAL SURFACE TREATMENT (STRUCTURE) 01. B-67-317	SF	3,195.000	3,195.000
0850	517.1050.S	ARCHITECTURAL SURFACE TREATMENT (STRUCTURE) 02. B-67-329	SF	2,570.000	2,570.000
0860	517.1050.S	ARCHITECTURAL SURFACE TREATMENT (STRUCTURE) 03. R-67-102	SF	1,965.000	1,965.000
0870	517.1050.S	ARCHITECTURAL SURFACE TREATMENT (STRUCTURE) 04. R-67-103	SF	5,365.000	5,365.000
0880	517.1050.S	ARCHITECTURAL SURFACE TREATMENT (STRUCTURE) 05. R-67-104	SF	565.000	565.000
0890	517.1050.S	ARCHITECTURAL SURFACE TREATMENT (STRUCTURE) 06. R-67-107	SF	4,150.000	4,150.000
0900	520.4018	CULVERT PIPE TEMPORARY 18-INCH	LF	20.000	20.000
0910	520.8000	CONCRETE COLLARS FOR PIPE	EACH	18.000	18.000
0920	521.0118	CULVERT PIPE CORRUGATED STEEL 18-INCH	LF	276.000	276.000
0930	521.0124	CULVERT PIPE CORRUGATED STEEL 24-INCH	LF	131.000	131.000
0940	521.1024	APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH	EACH	1.000	1.000
0950	521.1518	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1	EACH	20.000	20.000
0960	521.1524	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1	EACH	4.000	4.000
0970	522.0124	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	510.000	510.000
0980	522.1012	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH	EACH	14.000	14.000
0990	522.1015	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH	EACH	1.000	1.000
1000	522.1018	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	EACH	11.000	11.000
1010	522.1024	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	EACH	19.000	19.000
1020	522.1027	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 27-INCH	EACH	1.000	1.000
1030	522.1030	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH	EACH	1.000	1.000
1040	523.0524	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH	EACH	2.000	2.000
1050	523.0529	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 29X45-INCH	EACH	1.000	1.000
1060	523.0534	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH	EACH	1.000	1.000
1070	532.0200.S	WALL MODULAR BLOCK GRAVITY	SF	1,005.000	1,005.000
1080	601.0405	CONCRETE CURB & GUTTER 18-INCH TYPE A	LF	504.000	504.000
1090	601.0407	CONCRETE CURB & GUTTER 18-INCH TYPE D	LF	433.000	433.000
1100	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	26,910.000	26,910.000
1110	601.0415	CONCRETE CURB & GUTTER 6-INCH SLOPED 30-INCH TYPE J	LF	13,625.000	13,625.000
1120	601.0454	CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	LF	1,493.000	1,493.000
1130	601.0553	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	LF	9,361.000	9,361.000

3

DATE 02OCT13 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	1330-18-70 QUANTITY
1140	601.0580	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE R	LF	629.000	629.000
1150	602.0410	CONCRETE SIDEWALK 5-INCH	SF	79,430.000	79,430.000
1160	602.0505	CURB RAMP DETECTABLE WARNING FIELD YELLOW	SF	1,788.000	1,788.000
1170	603.0105	CONCRETE BARRIER SINGLE-FACED 32-INCH	LF	155.000	155.000
1180	603.1132	CONCRETE BARRIER TYPE S32	LF	44.000	44.000
1190	603.8000	CONCRETE BARRIER TEMPORARY PRECAST DELIVERED	LF	600.000	600.000
1200	603.8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	600.000	600.000
1210	606.0200	RIPRAP MEDIUM	CY	177.000	177.000
1220	608.0312	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	LF	2,205.900	2,205.900
1230	608.0315	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH	LF	65.000	65.000
1240	608.0318	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	3,494.200	3,494.200
1250	608.0324	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	5,206.000	5,206.000
1260	608.0327	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 27-INCH	LF	30.000	30.000
1270	608.0330	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH	LF	32.000	32.000
1280	608.0412	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH	LF	1,062.100	1,062.100
1290	610.0129	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 29X45-INCH	LF	246.300	246.300
1300	610.0134	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34X53-INCH	LF	310.100	310.100
1310	610.0424	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH	LF	564.800	564.800
1320	611.0430	RECONSTRUCTING INLETS	EACH	1.000	1.000
1330	611.0530	MANHOLE COVERS TYPE J	EACH	15.000	15.000
1340	611.0624	INLET COVERS TYPE H	EACH	147.000	147.000
1350	611.0627	INLET COVERS TYPE HM	EACH	29.000	29.000
1360	611.0642	INLET COVERS TYPE MS	EACH	47.000	47.000
1370	611.0652	INLET COVERS TYPE T	EACH	6.000	6.000
1380	611.0666	INLET COVERS TYPE Z	EACH	2.000	2.000
1390	611.2004	MANHOLES 4-FT DIAMETER	EACH	9.000	9.000
1400	611.2006	MANHOLES 6-FT DIAMETER	EACH	8.000	8.000
1410	611.2008	MANHOLES 8-FT DIAMETER	EACH	5.000	5.000
1420	611.3004	INLETS 4-FT DIAMETER	EACH	36.000	36.000
1430	611.3230	INLETS 2X3-FT	EACH	136.000	136.000
1440	611.3901	INLETS MEDIAN 1 GRATE	EACH	3.000	3.000
1450	611.3902	INLETS MEDIAN 2 GRATE	EACH	20.000	20.000
1460	611.8115	ADJUSTING INLET COVERS	EACH	1.000	1.000
1470	611.8120.S	COVER PLATES TEMPORARY	EACH	47.000	47.000
1480	612.0106	PIPE UNDERDRAIN 6-INCH	LF	1,400.000	1,400.000
1490	612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	236.000	236.000
1500	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	1,924.000	1,924.000
1510	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	7.000	7.000

3

DATE 02OCT13 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	1330-18-70 QUANTITY
1520	614.0905	CRASH CUSHIONS TEMPORARY	EACH	5.000	5.000
1530	614.2300	MGS GUARDRAIL 3	LF	788.000	788.000
1540	614.2500	MGS THRIE BEAM TRANSITION	LF	117.000	117.000
1550	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	6.000	6.000
1560	614.2620	MGS GUARDRAIL TERMINAL TYPE 2	EACH	2.000	2.000
1570	619.1000	MOBILIZATION	EACH	1.000	1.000
1580	620.0100	CONCRETE CORRUGATED MEDIAN	SF	1,290.000	1,290.000
1590	620.0300	CONCRETE MEDIAN SLOPED NOSE	SF	2,460.000	2,460.000
1600	623.0200	DUST CONTROL SURFACE TREATMENT	SY	53,077.000	53,077.000
1610	624.0100	WATER	MGAL	336.000	336.000
1620	625.0100	TOPSOIL	SY	7,091.000	7,091.000
1630	625.0500	SALVAGED TOPSOIL	SY	125,406.000	125,406.000
1640	627.0200	MULCHING	SY	31,452.000	31,452.000
1650	628.1104	EROSION BALES	EACH	106.000	106.000
1660	628.1504	SILT FENCE	LF	9,914.000	9,914.000
1670	628.1520	SILT FENCE MAINTENANCE	LF	2,500.000	2,500.000
1680	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	8.000	8.000
1690	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	8.000	8.000
1700	628.2002	EROSION MAT CLASS I TYPE A	SY	22,518.000	22,518.000
1710	628.2004	EROSION MAT CLASS I TYPE B	SY	34,605.000	34,605.000
1720	628.2006	EROSION MAT URBAN CLASS I TYPE A	SY	26,539.000	26,539.000
1730	628.2027	EROSION MAT CLASS II TYPE C	SY	5,557.000	5,557.000
1740	628.7005	INLET PROTECTION TYPE A	EACH	32.000	32.000
1750	628.7010	INLET PROTECTION TYPE B	EACH	14.000	14.000
1760	628.7015	INLET PROTECTION TYPE C	EACH	173.000	173.000
1770	628.7020	INLET PROTECTION TYPE D	EACH	22.000	22.000
1780	628.7504	TEMPORARY DITCH CHECKS	LF	501.000	501.000
1790	628.7555	CULVERT PIPE CHECKS	EACH	51.000	51.000
1800	629.0210	FERTILIZER TYPE B	CWT	117.000	117.000
1810	630.0120	SEEDING MIXTURE NO. 20	LB	50.000	50.000
1820	630.0130	SEEDING MIXTURE NO. 30	LB	892.000	892.000
1830	630.0140	SEEDING MIXTURE NO. 40	LB	494.000	494.000
1840	630.0160	SEEDING MIXTURE NO. 60	LB	53.000	53.000
1850	630.0171	SEEDING MIXTURE NO. 70A	LB	47.000	47.000
1860	630.0175	SEEDING MIXTURE NO. 75	LB	23.000	23.000
1870	630.0200	SEEDING TEMPORARY	LB	575.000	575.000
1880	631.0300	SOD WATER	MGAL	164.000	164.000
1890	631.1000	SOD LAWN	SY	7,091.000	7,091.000
1900	633.5200	MARKERS CULVERT END	EACH	8.000	8.000
1910	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	364.000	364.000
1920	634.0816	POSTS TUBULAR STEEL 2X2-INCH X 16-FT	EACH	37.000	37.000
1930	637.1220	SIGNS TYPE I REFLECTIVE SH	SF	890.000	890.000
1940	637.2210	SIGNS TYPE II REFLECTIVE H	SF	2,717.580	2,717.580
1950	637.2215	SIGNS TYPE II REFLECTIVE H FOLDING	SF	36.000	36.000
1960	637.2230	SIGNS TYPE II REFLECTIVE F	SF	987.750	987.750
1970	638.2102	MOVING SIGNS TYPE II	EACH	21.000	21.000
1980	638.2602	REMOVING SIGNS TYPE II	EACH	212.000	212.000
1990	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	205.000	205.000
2000	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 01. S-67-945	LS	1.000	1.000
2010	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 02. S-67-946	LS	1.000	1.000
2020	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 03. S-67-947	LS	1.000	1.000

DATE 02OCT13 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	1330-18-70 QUANTITY
2030	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 04. S-67-948	LS	1.000	1.000
2040	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 05. S-67-949	LS	1.000	1.000
2050	642.5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
2060	643.0100	TRAFFIC CONTROL (PROJECT) 01. 1330-18-70	EACH	1.000	1.000
2070	643.0300	TRAFFIC CONTROL DRUMS	DAY	126,655.000	126,655.000
2080	643.0410	TRAFFIC CONTROL BARRICADES TYPE II	DAY	1,123.000	1,123.000
2090	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	16,601.000	16,601.000
2100	643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	EACH	634.000	634.000
2110	643.0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	634.000	634.000
2120	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	29,599.000	29,599.000
2130	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	4,197.000	4,197.000
2140	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAY	31.000	31.000
2150	643.0900	TRAFFIC CONTROL SIGNS	DAY	30,723.000	30,723.000
2160	643.1000	TRAFFIC CONTROL SIGNS FIXED MESSAGE	SF	381.000	381.000
2170	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	223.000	223.000
2180	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. STH 83 & E/DE	EACH	1.000	1.000
2190	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	14,439.000	14,439.000
2200	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	734.000	734.000
2210	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	56,666.000	56,666.000
2220	646.0406	PAVEMENT MARKING SAME DAY EPOXY 4-INCH	LF	8,792.000	8,792.000
2230	646.0600	REMOVING PAVEMENT MARKINGS	LF	64,516.000	64,516.000
2240	647.0456	PAVEMENT MARKING CURB EPOXY	LF	202.000	202.000
2250	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	35.000	35.000
2260	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	943.000	943.000
2270	647.0786	PAVEMENT MARKING CROSSWALK EPOXY 18-INCH	LF	487.000	487.000
2280	647.0955	REMOVING PAVEMENT MARKINGS ARROWS	EACH	11.000	11.000
2290	647.0965	REMOVING PAVEMENT MARKINGS WORDS	EACH	7.000	7.000
2300	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	151,961.000	151,961.000
2310	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	190.000	190.000
2320	649.0701	TEMPORARY PAVEMENT MARKING 8-INCH	LF	2,632.000	2,632.000
2330	649.1100	TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH	LF	184.000	184.000
2340	650.4000	CONSTRUCTION STAKING STORM SEWER	EACH	283.000	283.000
2350	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	30,800.000	30,800.000
2360	650.5000	CONSTRUCTION STAKING BASE	LF	30,800.000	30,800.000
2370	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	52,955.000	52,955.000
2380	650.6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	4.000	4.000
2390	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-67-317	LS	1.000	1.000
2400	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 02. B-67-329	LS	1.000	1.000
2410	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 03. R-67-102	LS	1.000	1.000
2420	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 04. R-67-103	LS	1.000	1.000
2430	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 05. R-67-104	LS	1.000	1.000
2440	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 06. R-67-107	LS	1.000	1.000

3

DATE 02OCT13 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	1330-18-70 QUANTITY
2450	650.7500	CONSTRUCTION STAKING CONCRETE BARRIER	LF	155.000	155.000
2460	650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 01. CTH E/DE ROUNDABOUT	LS	1.000	1.000
2470	650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 02. 1330-18-70 VILLAGE OF WALES	LS	1.000	1.000
2480	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 1330-18-70	LS	1.000	1.000
2490	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	19,300.000	19,300.000
2500	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	14,345.000	14,345.000
2510	652.0235	CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	LF	270.000	270.000
2520	652.0605	CONDUIT SPECIAL 2-INCH	LF	120.000	120.000
2530	652.0800	CONDUIT LOOP DETECTOR	LF	44.000	44.000
2540	652.0900	LOOP DETECTOR SLOTS	LF	55.000	55.000
2550	653.0135	PULL BOXES STEEL 24X36-INCH	EACH	30.000	30.000
2560	653.0905	REMOVING PULL BOXES	EACH	36.000	36.000
2570	654.0101	CONCRETE BASES TYPE 1	EACH	9.000	9.000
2580	654.0105	CONCRETE BASES TYPE 5	EACH	88.000	88.000
2590	654.0215	CONCRETE CONTROL CABINET BASES TYPE 9	EACH	1.000	1.000
2600	655.0230	CABLE TRAFFIC SIGNAL 5-14 AWG	LF	120.000	120.000
2610	655.0240	CABLE TRAFFIC SIGNAL 7-14 AWG	LF	1,033.000	1,033.000
2620	655.0515	ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	LF	657.000	657.000
2630	655.0520	ELECTRICAL WIRE TRAFFIC SIGNALS 8 AWG	LF	3,525.000	3,525.000
2640	655.0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	17,760.000	17,760.000
2650	655.0615	ELECTRICAL WIRE LIGHTING 10 AWG	LF	450.000	450.000
2660	655.0620	ELECTRICAL WIRE LIGHTING 8 AWG	LF	38,244.000	38,244.000
2670	655.0630	ELECTRICAL WIRE LIGHTING 4 AWG	LF	15,596.000	15,596.000
2680	655.0640	ELECTRICAL WIRE LIGHTING 1 AWG	LF	108.000	108.000
2690	655.0700	LOOP DETECTOR LEAD IN CABLE	LF	402.000	402.000
2700	655.0800	LOOP DETECTOR WIRE	LF	152.000	152.000
2710	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 03. CTH E/DE & USH 18	LS	1.000	1.000
2720	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 04. ML-67-VW1	LS	1.000	1.000
2730	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 05. ML-67-VW2	LS	1.000	1.000
2740	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 06. ML-67-VW3	LS	1.000	1.000
2750	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 07. ML-67-VW4	LS	1.000	1.000
2760	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 08. HL-67-SU	LS	1.000	1.000
2770	657.0100	PEDESTAL BASES	EACH	9.000	9.000
2780	657.0255	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	EACH	13.000	13.000
2790	657.0322	POLES TYPE 5-ALUMINUM	EACH	13.000	13.000
2800	657.0425	TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT	EACH	2.000	2.000
2810	657.0430	TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT	EACH	7.000	7.000
2820	657.0715	LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT	EACH	20.000	20.000
2830	658.0416	PEDESTRIAN SIGNAL FACE 16-INCH	EACH	8.000	8.000
2840	658.0500	PEDESTRIAN PUSH BUTTONS	EACH	8.000	8.000

3

DATE 02OCT13 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	1330-18-70 QUANTITY
2850	658.0605	LED MODULES 12-INCH YELLOW BALL	EACH	2.000	2.000
2860	658.0635	LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH	EACH	8.000	8.000
2870	658.5069	SIGNAL MOUNTING HARDWARE (LOCATION) 01. FSB1	LS	1.000	1.000
2880	658.5069	SIGNAL MOUNTING HARDWARE (LOCATION) 02. FSB2	LS	1.000	1.000
2890	658.5069	SIGNAL MOUNTING HARDWARE (LOCATION) 03. USH 18 & STH 83	LS	1.000	1.000
2900	659.0802	PLAQUES SEQUENCE IDENTIFICATION	EACH	175.000	175.000
2910	659.1120	LUMINAIRES UTILITY LED B	EACH	20.000	20.000
2920	661.0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 01. USH 18 & STH 83	LS	1.000	1.000
2930	661.0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 02. STH 83 & CTH DE/CTH E	LS	1.000	1.000
2940	690.0150	SAWING ASPHALT	LF	11,861.000	11,861.000
2950	690.0250	SAWING CONCRETE	LF	140.000	140.000
2960	715.0415	INCENTIVE STRENGTH CONCRETE PAVEMENT	DOL	500.000	500.000
2970	715.0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	1,789.000	1,789.000
2980	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5.00/HR	HRS	5,000.000	5,000.000
2990	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	6,000.000	6,000.000
3000	SPV.0035	SPECIAL 01. CONCRETE MASONRY ENDWALLS SPECIAL	CY	7.900	7.900
3010	SPV.0060	SPECIAL 01. MODIFIED INLET MEDIAN 3	EACH	1.000	1.000
3020	SPV.0060	SPECIAL 02. MODIFIED MANHOLE 8 FOOT GRATE	EACH	1.000	1.000
3030	SPV.0060	SPECIAL 03. REMOVE AND REINSTALL CONTROLLER CABINET	EACH	1.000	1.000
3040	SPV.0060	SPECIAL 04. LAMP DISPOSAL HIGH INTENSITY DISCHARGE	EACH	10.000	10.000
3050	SPV.0060	SPECIAL 05. SALVAGING LIGHT POLES, ARMS, LUMINAIRES AND LAMPS	EACH	8.000	8.000
3060	SPV.0060	SPECIAL 06. LIGHTING CONTROL CABINET	EACH	5.000	5.000
3070	SPV.0060	SPECIAL 07. CONCRETE CONTROL CABINET BASES SPECIAL	EACH	5.000	5.000
3080	SPV.0060	SPECIAL 08. DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 20-FT, 80 WATT	EACH	1.000	1.000
3090	SPV.0060	SPECIAL 10. DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT	EACH	30.000	30.000
3100	SPV.0060	SPECIAL 11. DECORATIVE LIGHT POLE DOUBLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT	EACH	43.000	43.000
3110	SPV.0060	SPECIAL 12. DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 30-FT, 180 WATT	EACH	6.000	6.000
3120	SPV.0060	SPECIAL 13. PAVEMENT MARKING GROOVED ARROWS PREFORMED THERMOPLASTIC TYPE 1	EACH	4.000	4.000
3130	SPV.0060	SPECIAL 14. PAVEMENT MARKING GROOVED ARROWS PREFORMED THERMOPLASTIC TYPE 2R	EACH	4.000	4.000
3140	SPV.0060	SPECIAL 15. PAVEMENT MARKING GROOVED ARROWS PREFORMED THERMOPLASTIC TYPE 2	EACH	25.000	25.000
3150	SPV.0060	SPECIAL 16. PAVEMENT MARKING GROOVED ARROWS PREFORMED THERMOPLASTIC TYPE 3	EACH	15.000	15.000

3

DATE 02OCT13 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	1330-18-70 QUANTITY
3160	SPV.0060	SPECIAL 17. PAVEMENT MARKING GROOVED ARROWS PREFORMED THERMOPLASTIC TYPE 3R	EACH	11.000	11.000
3170	SPV.0060	SPECIAL 18. PAVEMENT MARKING GROOVED WORDS PREFORMED THERMOPLASTIC	EACH	44.000	44.000
3180	SPV.0060	SPECIAL 19. SECTION CORNER MONUMENTS SPECIAL	EACH	3.000	3.000
3190	SPV.0090	SPECIAL 01. FOUNDATION DRILLING 36-INCH DIAMETER	LF	290.000	290.000
3200	SPV.0090	SPECIAL 02. HEAVY DUTY SILT FENCE	LF	2,800.000	2,800.000
3210	SPV.0090	SPECIAL 03. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH	LF	5,645.000	5,645.000
3220	SPV.0090	SPECIAL 04. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH	LF	10,449.000	10,449.000
3230	SPV.0090	SPECIAL 05. PAVEMENT MARKING GROOVED CROSSWALK PREFORMED THERMOPLASTIC 6-INCH	LF	410.000	410.000
3240	SPV.0090	SPECIAL 06. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 8-INCH	LF	421.000	421.000
3250	SPV.0090	SPECIAL 07. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 18-INCH	LF	222.000	222.000
3260	SPV.0090	SPECIAL 08. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 24-INCH	LF	3,264.000	3,264.000
3270	SPV.0090	SPECIAL 09. PIPE UNDERDRAIN WRAPPED 6 INCH SPECIAL	LF	3,045.000	3,045.000
3280	SPV.0090	SPECIAL 10. PIPE UNDERDRAIN UNPERFORATED 6 INCH SPECIAL	LF	170.000	170.000
3290	SPV.0090	SPECIAL 11. STEEL RAILING DECORATIVE BRIDGE B-67-317	LF	279.000	279.000
3300	SPV.0090	SPECIAL 12. STEEL RAILING DECORATIVE BRIDGE B-67-329	LF	279.000	279.000
3310	SPV.0105	SPECIAL 01. RAILING STEEL TYPE C6 GALVANIZED R-67-103	LS	1.000	1.000
3320	SPV.0105	SPECIAL 02. MAINTAINING OPERATION AND DEBRIS CONTAINMENT STRUCTURE B-67-329	LS	1.000	1.000
3330	SPV.0105	SPECIAL 03. RAILING STEEL TYPE C4 GALVINIZED R-67-107	LS	1.000	1.000
3340	SPV.0105	SPECIAL 04. REMOVING OVERHEAD SIGN SUPPORT S-67-249	LS	1.000	1.000
3350	SPV.0105	SPECIAL 05. MAINTAINING OPERATION AND DEBRIS CONTAINMENT STRUCTURE B-67-317	LS	1.000	1.000
3360	SPV.0105	SPECIAL 06. RAILING STEEL TYPE C6 GALVINIZED PEDESTRIAN R-67-104	LS	1.000	1.000
3370	SPV.0105	SPECIAL 07. REMOVE TRAFFIC SIGNALS USH 18 & STH 83	LS	1.000	1.000
3380	SPV.0105	SPECIAL 08. REMOVE TRAFFIC SIGNALS STH 83 & CTH DE / CTH E	LS	1.000	1.000
3390	SPV.0105	SPECIAL 09. TEMP VEHICULAR VIDEO DETECTION SYS FOR INTERSECTIONS USH 18 & STH 83	LS	1.000	1.000
3400	SPV.0105	SPECIAL 10. TEMP VEHICULAR VIDEO DETECTION SYS FOR INTERSECTIONS STH 83 & CTH DE/CTH E	LS	1.000	1.000
3410	SPV.0105	SPECIAL 11. REMOVE LOOP DETECTOR WIRE & LEAD-IN CABLE USH 18 & STH 83	LS	1.000	1.000
3420	SPV.0105	SPECIAL 12. REMOVE LOOP DETECTOR WIRE & LEAD-IN CABLE STH 83 & CTH DE / CTH E	LS	1.000	1.000
3430	SPV.0105	SPECIAL 13. REMOVE LOOP DETECTOR WIRE & LEAD-IN CABLE USH 18 & OAK CREST DR	LS	1.000	1.000

DATE 02OCT13 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	1330-18-70 QUANTITY
3440	SPV.0105	SPECIAL 14. REMOVING GEODETIC SURVEY MONUMENT	LS	1.000	1.000
3450	SPV.0105	SPECIAL 15. LIGHTING SYSTEM INTERGRATOR	LS	1.000	1.000
3460	SPV.0105	SPECIAL 16, MAINTENANCE OF LIGHTING SYSTEMS	LS	1.000	1.000
3470	SPV.0105	SPECIAL 17. LIGHTING SYSTEM SURVEY	LS	1.000	1.000
3480	SPV.0105	SPECIAL 18. RAILING TUBULAR STEEL GALVANIZED PEDESTRIAN	LS	1.000	1.000
3490	SPV.0165	SPECIAL 01. PRECAST PANELS FOR POST AND PANEL WALLS R-67-102	SF	2,315.000	2,315.000
3500	SPV.0165	SPECIAL 02. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD R-67-103	SF	4,675.000	4,675.000
3510	SPV.0165	SPECIAL 03. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD R-67-104	SF	3,665.000	3,665.000
3520	SPV.0165	SPECIAL 04. WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD R-67-107	SF	852.000	852.000
3530	SPV.0180	SPECIAL 01. SLOPE PAVING CRUSHED AGGREGATE SPECIAL	SY	660.000	660.000

STATION	TO	STATION	LOCATION	CLEARING 201.0105 STA	GRUBBING 201.0205 STA
623+00	-	631+00	STH 83 RT	8	8
638+00	-	641+00	STH 83 RT	3	3
646+00	-	648+00	STH 83 RT	2	2
648+00	-	649+00	STH 83 RT	1	1
652+00	-	654+00	STH 83 RT	2	2
1463+00	-	1466+00	STH 83 RT	3	3
1468+00	-	1469+00	STH 83 RT	1	1
1474+00	-	1476+00	STH 83 RT	2	2
1495+00	-	1500+00	STH 83 RT	5	5
1500+00	-	1511+00	STH 83 RT	11	11
1511+00	-	1516+00	STH 83 RT	5	5
1516+00	-	1520+00	STH 83 RT	4	4
1520+00	-	1522+00	STH 83 RT	2	2
1530+00	-	1532+00	STH 83 RT	2	2
1551+00	-	1552+00	STH 83 RT	1	1
1553+00	-	1555+00	STH 83 RT	2	2
1556+00	-	1559+00	STH 83 RT	3	3
1560+00	-	1565+00	STH 83 RT	5	5
1567+00	-	1569+00	STH 83 RT	2	2
646+00	-	648+00	STH 83 LT	2	2
652+00	-	654+00	STH 83 LT	2	2
1462+00	-	1466+00	STH 83 LT	4	4
1467+00	-	1472+00	STH 83 LT	5	5
1474+00	-	1483+00	STH 83 LT	9	9
1483+00	-	1490+00	STH 83 LT	7	7
1503+00	-	1505+00	STH 83 LT	2	2
1511+00	-	1516+00	STH 83 LT	5	5
1516+00	-	1519+00	STH 83 LT	3	3
1522+00	-	1527+00	STH 83 LT	5	5
1531+00	-	1536+00	STH 83 LT	5	5
1558+00	-	1560+00	STH 83 LT	1	1
1561+00	-	1563+00	STH 83 LT	2	2
1564+00	-	1570+00	STH 83 LT	6	6
55+00	-	57+00	CTH E	2	2
57+00	-	60+00	CTH E LT	3	3
57+00	-	60+00	CTH E RT	3	3
60+00	-	63+00	CTH DE LT	3	3
63+00	-	66+00	CTH DE	3	3
46+00	-	49+00	CTH G	3	3
51+00	-	52+00	MAIN STREET	1	1
48+00	-	49+00	BOYS SCHOOL ROAD	1	1
			TOTAL 0010	141	141

STATION	LOCATION	REMOVING SMALL PIPE CULVERTS 203.0100 EACH	LENGTH (LF) REMARKS
622+70	STH 83 LT	1	25
622+90	STH 83 RT	1	24
627+00	STH 83 RT	1	30
630+25	STH 83 LT	1	26
630+30	STH 83 LT	1	36
642+80	STH 83 CL	1	106
1478+65	STH 83 CL	1	67
1478+90	STH 83 LT	1	26
1488+35	STH 83 LT	1	32
1490+41	STH 83 CL	1	48
1494+31	STH 83 CL	1	54
1495+80	STH 83 LT	1	30
1501+00	STH 83 RT	1	143
1504+80	STH 83 LT	1	30
1516+80	STH 83 RT	1	24
1519+80	STH 83 LT	1	88
1521+75	STH 83 RT	1	24
1523+00	STH 83 CL	1	60
1524+50	STH 83 RT	1	62
1524+60	STH 83 LT	1	28
1526+60	STH 83 RT	1	28
1541+18	STH 83 LT	1	--
1551+90	STH 83 CL	1	90
1559+75	STH 83 LT	1	67
1562+50	STH 83 LT	1	46
1568+00	STH 83 RT	1	54
1569+10	STH 83 CL	1	120
1569+75	STH 83 RT	1	62
1577+25	STH 83 CL	1	92
50+64	HARVEST VIEW	1	106
48+75	PORTHAMEL COURT	1	22
49+65	PORTHAMEL COURT	1	80
48+50	CTH G CL	1	46
49+56	CTH G CL	1	81
50+40	WELSH ROAD	1	66
51+87	CRIGLAS ROAD	1	82
49+72	CYMRIC COURT	1	114
49+27	BOYS SCHOOL ROAD	1	76
50+45	GLACIER PASS	1	84
83+40	USH 18 RT	1	24
83+74	USH 18 LT&RT	1	24
82+77	USH 18 LT	1	24
84+36	USH 18 LT	1	24
85+70	USH 18 LT	1	24
	TOTAL 0010	44	

3

REMOVING PAVEMENT
204.0100

STATION	TO	STATION	LOCATION	SY	REMARKS
57+63	-	59+08	CTH E	47	CORRUGATED MEDIAN
			TOTAL 0010	47	

REMOVING ASPHALTIC SURFACE
204.0110

STATION	TO	STATION	LOCATION	SY	REMARKS
10+00	-	15+16	GLACIAL DRUMLIN TRAIL	489	CENTER MEDIAN
646+00	-	651+21	STH 83 RT	854	TEMPORARY WIDENING STAGE 1
652+15	-	1459+00	STH 83 RT	745	TEMPORARY WIDENING STAGE 1
1531+00	-	APPR SLAB	STH 83 LT	59	TEMPORARY ROADWAY STAGE 1
APPR SLAB	-	1537+00	STH 83 LT	1360	TEMPORARY ROADWAY STAGE 1
1537+77	-	1540+20	STH 83 RT	394	TEMPORARY WIDENING STAGE 1
74+50	-	75+50	USH 18 LT AND RT	217	MEDIANS
77+60	-	80+00	USH 18 LT	361	TEMPORARY WIDENING STAGE 1
1541+50	-	1542+85	MEDIANS	104	MEDIANS
82+89	-	84+21	USH 18 LT	30	TEMPORARY WIDENING STAGE 1
1543+69	-	1546+73	STH 83 LT	487	TEMPORARY WIDENING STAGE 1
646+00	-	651+18	STH 83 LT	463	TEMPORARY WIDENING STAGE 2
650+24	-	651+00	STH 83 MEDIAN	32	TEMPORARY WIDENING STAGE 2
651+22	-	652+31	ROUNDABOUT CENTER	479	TEMPORARY WIDENING STAGE 2
58+70	-	59+24	CTH E MEDIAN	109	TEMPORARY WIDENING STAGE 2
652+50	-	653+66	STH 83 MEDIANS	204	TEMPORARY WIDENING STAGE 2
			SW QUAD 18/83 RAB	231	TEMPORARY WIDENING STAGE 2
			SE QUAD 18/83 RAB	202	TEMPORARY WIDENING STAGE 2
			NW QUAD 18/83 RAB	200	TEMPORARY WIDENING STAGE 2
			NE QUAD 18/83 RAB	168	TEMPORARY WIDENING STAGE 2
1538+00	-	1541+50	SOUTH CENTER, NIGHT WORK	714	TEMPORARY RAB STAGE 3
1541+50	-	1542+50	WEST, NIGHT WORK	258	TEMPORARY RAB STAGE 3
1541+50	-	1542+50	EAST, NIGHT WORK	199	TEMPORARY RAB STAGE 3
1542+85	-	1543+21	NORTH CENTER, NIGHT WORK	205	TEMPORARY RAB STAGE 3
1547+00	-	1549+50	CROSS OVER, NIGHT WORK	599	TEMPORARY PAVEMENT STAGE 3
			TOTAL 0010	9163	

STATION	TO	STATION	LOCATION	REMOVING ASPHALTIC SURFACE MILLING 204.0125 TON
615+00	-	624+00	STH 83	337
638+00	-	646+00	STH 83	298
1579+50	-	1587+00	STH 83	506
87+00	-	98+50	USH 18	304
UNDISTRIBUTED				300
			TOTAL 0010	1745

STATION	TO	STATION	LOCATION	REMOVING CONCRETE SIDEWALK 204.0155 SY	REMARKS
57+15	-	59+14	CTH E	59	CENTER MEDIAN
60+57	-	62+00	CTH DE	46	CENTER MEDIAN
			USH 18	16	SW ISLAND
			USH 18	8	SE ISLAND
			USH 18	77	NE ISLAND
74+57	-	75+44	USH 18	886	RT
74+54	-	75+14	USH 18	384	LT
			TOTAL 0010	1476	

STATION	TO	STATION	LOCATION	REMOVING CURB & GUTTER 204.0150 LF	REMARKS
625+00	-	630+50	STH 83 LT	555	
634+95	-	637+85	STH 83 RT	290	
646+90	-	650+66	STH 83 LT	376	
58+80	-	650+66	CTH E SW QUAD	103	
652+93	-	656+24	STH 83 LT	322	
1478+35	-	1485+65	STH 83 RT	730	
1483+30	-	1487+60	STH 83 LT	430	
1494+70	-	1499+70	STH 83 LT	500	
1506+25	-	1510+25	STH 83 LT	400	
1507+25	-	1510+10	STH 83 RT	285	
1511+50	-	1515+35	STH 83 LT	385	
1511+30	-	1515+30	STH 83 RT	400	
1538+16	-	1538+79	STH 83 LT	85	
1546+57	-	1546+87	STH 83 LT	78	
1547+19	-	1547+84	STH 83 LT	86	
--		--	LONDON DRIVE SE	52	
--		--	LONDON DRIVE NE	62	
--		--	HARVEST VIEW SE	90	
--		--	HARVEST VIEW NE	62	
57+59	-	59+16	CTH E	315	CENTER MEDIAN
57+59	-	58+80	CTH E	313	LT
58+80	-	652+93	CTH E	106	NW
650+90	-	60+60	CTH DE SE QUAD	90	
60+60	-	63+51	CTH DE RT	300	
60+54	-	62+03	CTH DE	302	CENTER MEDIAN
60+91	-	652+03	CTH DE NE QUAD	99	
--	-	--	SQUIRE RD.	62	SE
--	-	--	SQUIRE RD.	78	SW
--	-	--	PORTHAMEL RD. SW	58	
--	-	--	PORTHAMEL RD. NW	95	
--	-	--	CTH G SW	146	
--	-	--	CTH G NW	158	
--	-	--	BRANDYBROOK SE	74	
--	-	--	BRANDYBROOK NE	41	
--	-	--	WELSH ROAD SW	58	
--	-	--	WELSH ROAD NW	92	
--	-	--	WELSH ROAD SE	86	
--	-	--	WELSH ROAD NE	56	
--	-	--	BENTON COURT SW	116	
--	-	--	BENTON COURT NW	94	
--	-	--	SOUTH STREET SE	83	
--	-	--	SOUTH STREET NE	70	
--	-	--	CRIGLAS ROAD SW	62	
--	-	--	CRIGLAS ROAD NW	88	
--	-	--	CRIGLAS ROAD SE	89	
--	-	--	CRIGLAS ROAD NE	66	
--	-	--	MAIN STREET SE	258	
--	-	--	MAIN STREET NE	238	
--	-	--	1519+75, LT	50	
--	-	--	CYMRIC COURT SW	61	
--	-	--	CYMRIC COURT NW	88	
--	-	--	USH 18	101	SW
--	-	--	USH 18	49	SE
--	-	--	USH 18	64	NE
--	-	--	USH 18	52	NW
--	-	--	USH 18	64	SW ISLAND
--	-	--	USH 18	68	SE ISLAND
--	-	--	USH 18	142	NE ISLAND
75+17	-	77+65	USH 18	248	LT
74+57	-	75+46	USH 18	205	RT
74+51	-	75+16	USH 18	143	LT
74+67	-	74+79	USH 18	13	RT
--	-	--	HIGH MEADOW SW	56	
--	-	--	HIGH MEADOW NW	80	
--	-	--	HIGH MEADOW SE	89	
--	-	--	HIGH MEADOW NE	58	
--	-	--	BOYS SCHOOL ROAD SW	60	
--	-	--	BOYS SCHOOL ROAD NW	94	
--	-	--	GLACIER PASS SE	93	
--	-	--	GLACIER PASS NE	61	
--	-	--	OAKCREST ROAD SW	76	
--	-	--	OAKCREST ROAD NW	58	
--	-	--	OAKCREST ROAD SE	78	
--	-	--	OAKCREST ROAD NE	81	
			TOTAL 0010	11216	

REMOVING GUARDRAIL
204.0165

STATION	TO	STATION	LOCATION	LF	REMARKS
148260	-	148400	STH 83	138	RT
152975	-	153075	STH 83	100	RT
152980	-	153080	STH 83	100	LT
153230	-	153720	STH 83	490	RT
153250	-	153730	STH 83	480	LT
156580	-	157060	STH 83	480	LT
			TOTAL 0010	1788	

REMOVING BUILDINGS

STATION	LOCATION	(PARCEL 8) 204.0235.01 LS	(PARCEL 42) 204.0235.02 LS	REMARKS
626+05	STH 83, 50' LT	1	--	12.5' x 30' WOOD BUILDING
1479+50	STH 83, 50' LT	--	1	10' x 12' WOOD BUILDING
	TOTAL 0010	1	1	

REMOVING FENCE
204.0170

STATION	TO	STATION	LOCATION	LF	REMARKS
1505+00	-	1506+50	STH 83 RT	145	6' CHAIN LINK
			TOTAL 0010	145	

REMOVING STORM SEWER

STATION	LOCATION	204.0245.01 12-INCH LF	204.0245.02 15-INCH LF	204.0245.03 18-INCH LF	204.0245.04 24-INCH LF	204.0245.05 34X54-INCH LF	REMARKS
57+68	CTH E	46	-	-	-	-	LT
60+62	CTH DE	69	-	-	-	-	LT & RT
1540+92	STH 83	-	-	-	22	-	LT
1541+13	STH 83	-	-	-	-	107	LT & RT
1546+43	STH 83	-	-	-	98	-	LT & RT
1546+63	STH 83	-	-	104	-	-	LT
75+40	USH 18	-	8	-	-	-	LT
77+59	USH 18	38	-	-	-	-	LT
	TOTAL 0010	153	8	104	120	107	

REMOVING INLETS
204.0220

STATION	LOCATION	EACH	REMARKS
57+68	CTH E	1	CENTER MEDIAN
60+62	CTH DE	1	CENTER MEDIAN
	BENTON COURT	2	LT
	BENTON COURT	1	RT
1499+50	STH 83	1	60' LT
1519+65	STH 83	1	LT
1520+00	STH 83	1	LT
1540+92	STH 83	1	LT
1541+13	STH 83	1	LT
	TOTAL 0010	8	

REMOVING GEODETIC SURVEY MONUMENT
SPV.0105.14

STATION	LOCATION	LS	REMARKS
88+75	30' RT.	1	USH 18
	TOTAL 0010	1	

Division	From / To Station	Location	Common Excavation (1) (item # 205.0100) Cut (2)	EBS Excavation (3)	Salvaged / Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (9) Factor 0.80	Unexpanded Fill	Expanded Fill (13) Factor 1.20	Mass Ordinate + / - (14)	Comment:
STAGE 1	621+00 - 625+00	STH 83 LT	292	-	-	292	-	12	15	277	
	635 - 640+00	STH 83 LT	241	-	-	241	-	13	16	225	
	645+00 - 646+00	STH 83 RT	39	-	-	39	-	28	35	4	
	1466+00 - 1469+50	STH 83 RT	77	-	-	77	-	39	49	28	
	1472+00 - 1475+00	STH 83 RT	42	-	-	42	-	11	14	28	
	1504+00 - 1510+50	STH 83 LT	1,366	-	-	1,366	-	34	43	1,324	
	1511+00 - 1512+00	STH 83 LT	190	-	-	190	-	1	1	189	
	1528+00 - 1532+50	STH 83 LT	699	-	-	699	-	352	440	259	
	1512+25-1528+25	STH 83	4,652	1,044	-	3,608	835	2,617	2,228	1,380	
	50+82-50+85	Criglas	49	-	-	49	-	27	34	16	
	48+75-49+54	Cymric	226	-	-	226	-	3	4	222	
									-	-	
Division 1 Subtotal			7,873	1,044	-	6,829	835	3,137	2,878	3,952	
							1		1		
STAGE 2	615+00-646+00	STH 83	5,579	1,234	924	3,421	987	643	(430)	3,851	
	652+00 - 658+00	STH 83	2,000	-	-	2,000	-	100	(43,008)	45,008	
	1459+00-1486+60	STH 83	13,334	534	137	12,663	427	4,522	5,118	7,544	
	1486+60-1532+00	STH 83	14,134	6,247	1,325	6,562	4,998	5,458	576	5,987	
	1533+00 - 1541+00	STH 83	3,400	-	-	3,400	-	2,500	3,125	275	
	1542+00 - 1552+00	STH 83	1,100	-	-	1,100	-	2,000	2,500	(1,400)	
	1551+00-1567+00	STH 83	13,832	1,435	88	12,309	1,148	797	(439)	12,748	
	1567+00-1585+00	STH 83	357	51	25	281	41	1,539	1,873	(1,592)	
	53+75 - 59+00	CTH E	3,652	-	-	3,652	-	736	920	2,732	
	51+00-51+52	London Dr.	178	-	-	178	-	13	17	162	
	50+12-50+86	Harvest View	177	-	-	177	-	3	4	173	
	48+00-49+53	Porthamel	339	-	-	339	-	2	2	337	
	46+50-49+41	CTH G	158	-	-	158	-	785	981	(823)	
	50+50-51+40	Welsh Rd East	165	-	-	165	-	6	7	158	
	52+66-53+45	Criglas	97	-	-	97	-	23	29	68	
	50+35-52+50	Main St.	354	-	-	354	-	20	25	329	
	51+00 to 52+00	High Meadow	216	-	-	216	-	2	2	213	
	50+60 to 51+25	Glacier Pass South	105	-	-	105	-	13	16	89	
	75+00 - 79+50	USH 18	1,680	-	-	1,680	-	1,891	2,364	(684)	
	87+00 to 97+00	USH 18	953	-	-	953	-	866	1,082	(129)	
	Pond	Oak Crest NW	1,304	-	-	1,304	-	-	-	1,304	
	SE Quadrant	USH 18 & Oak Crest	31	-	-	31	-	22	28	4	
	Pond 1463+00 LT	STH 83	1,075	-	-	1,075	-	335	419	656	
		Squire Road	254		-	254	-	1	1	253	
	10+00 - 14+27	CTH E/DE	1,000		-	1,000	-	118	148	853	
	10+00 - 14+28	USH 18	4		-	4	-	1,500	1,875	(1,871)	
									-	-	
Division 1 Subtotal			65,478	9,501	2,499	53,478	7,601	23,894	(22,766)	76,244	
									1		
STAGE 3	615+00-646+00	STH 83	7,387	-	356	7,032	-	452	542	6,489	
	652+00 - 658+00	STH 83	1,464	-	-	1,464	-	41	615	849	
	1459+00-1486+60	STH 83	11,793	534	1,392	9,866	427	2,306	2,348	7,518	
	1486+60-1512+25	STH 83	7,846	5,282	109	2,455	4,226	1,333	(3,616)	6,071	
	1533+00 - 1541+00	STH 83	3,078	-	-	3,078	-	2,344	2,930	148	
	1542+00 - 1552+00	STH 83	1,012	-	-	1,012	-	1,362	1,703	(691)	
	1551+00-1567+00	STH 83	7,589	1,408	969	5,212	1,126	3,989	3,578	1,634	
	1567+00-1585+00	STH 83	4,250	-	368	3,883	-	17,887	22,358	(18,476)	
	1486+00 - 1486+50	BRANDYBROOK RD	136	-	-	136	-	16	20	116	
	49+30 to 49+95	WELSH ROAD WEST	87	-	-	87	-	13	17	70	
	48+75 to 49+60	BENTON COURT	256	-	-	256	-	1	1	256	
	49+15-49+85	HIGH MEADOW	243	-	-	243	-	-	-	243	
	48+25-49+40	BOYS SCHOOL ROAD	252	-	-	252	-	3	4	248	
	81+00 - 86+50	USH 18	1,303	-	-	1,303	-	1,107	1,384	(81)	
	87+00 to 97+00	USH 18	875	-	-	875	-	279	349	526	
	18+38 to 19+65	Oak Crest	99	-	-	99	-	32	40	59	
	NE Quadrant	USH 18 & Oak Crest	46	-	-	46	-	9	11	35	
	60+00 - 66+00	CTH DE	2,154	-	-	2,154	-	651	814	1,340	
						-			-	-	
Division 2 Subtotal			49,870	7,224	3,193	39,452	5,779	31,824	33,097	6,355	See Note 15
Grand Total			123,221	17,769	5,692	99,759	14,215	58,855	13,209	86,551	
			Total Common Exc	140,990							

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Marsh Excavation - to be backfilled with Select Borrow Material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well. Item number 205.0500
7) Rock Excavation item number 205.0200
8) Reduced Marsh in Fill - Excavated Marsh material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
9) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
10) Expanded Marsh Backfill - This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item number 208.11
11) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.11
12) Expanded Rock - Factor = 1.1.
13) Expanded Fill. Factor = 1.25
Depending on selections:

Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor

14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

EXCAVATION STONE PILES
AND STONE FENCES
205.0300

STATION	TO	STATION	LOCATION	CY	REMARKS
625+61	-	627+14	STH 83, 50' LT	30	FIELD STONE WALL
			TOTAL 0010	30	

EXCAVATION,HAULING AND DISPOSAL OF
PETROLEUM CONTAMINATED SOIL
205.0501.S

LOCATION	TON
NE QUAD STH 83 & USH 18	1700
TOTAL 0010	1700

Prepare
Foundation For
Asphaltic Shoulders
STA

Location (STA)	211.0400
Stage 1	
653+00 - 1477+ STH 83	14
TOTALS 0010	14

TEMPORARY SHORING
206.6000.S

STATION	TO	STATION	LOCATION	SF	REMARKS
1530+81	-	1531+37	TS WALL 01	800	MAXIMUN AREA - STAGE 3
1532+06	-	1535+50	TS WALL 02	2960	MAXIMUM AREA - STAGE 1
1530+53.98	-	1530+93.98	TS WALL 03	375	MAXIMUM AREA - STAGE 3
1532+22.69	-	1532+67.69	TS WALL 04	575	MAXIMUM AREA - STAGE 3
			TOTAL 0010	4710	

STATION	TO	STATION	LOCATION	BASE AGGREGATE OPEN GRADED 310.0110 TON	BREAKER RUN 311.0110 TON	REMARKS
1482+70	-	1484+25	STH 83 LT	33	--	MODULAR BLOCK WALL
628+00	-	633+00	STH 83	--	125	--
1459+00	-	1462+00	STH 83	--	125	EBS
1486+00	-	1506+00	STH 83	--	18198	EBS
1517+00	-	1522+00	STH 83	--	3666	EBS
1560+00	-	1567+00	STH 83	--	4975	EBS
53+75	-	58+50	CTH E/DE	--	1242	EBS
81+00	-	85+00	USH 18	--	2361	EBS
UNDISTRIBUTED				--	3000	
			TOTAL 0010	33	33693	

Location (STA)			BASE AGGREGATE DENSE 3/4-Inch TON 305.0110	BASE AGGREGATE DENSE 1-1/4 Inch TON 305.0120	DUST CONTROL SURFACE TREATMENT SY 623.0200	WATER MGAL 624.0100
Stage 1						
621+10	-	625+52	--	452	--	2
635+05	-	639+75	--	434	--	2
644+55	-	646+00	--	135	--	1
646+00	-	1459+00	--	711	--	3
1459+00	-	1467+48	--	767	--	2
1472+86	-	1475+95	--	204	--	1
1504+50	-	1512+25	--	834	--	3
1512+25	-	1528+23	--	3,664	--	8
Criglas Road			8	315	--	1
1526+03	-	1540+20	--	617	--	2
1536+28	-	1537+58	--	139	--	1
1538+28	-	1538+64	--	41	--	1
82+08	-	83+51	--	114	--	1
Cymric Road			7	243	--	1
		Stage 1 Subtotal	15	8,670		29
Stage 2						
615+00	-	646+00	430	6,447	4,512	20
646+00	-	1459+00	57	5,895	3,000	18
1459+00	-	Brandybrook Rd	6	7,916	3,956	17
Brandybrook Rd	-	1531+29	11	14,215	7,119	31
1530+50		1551+00	-	10,660	4,500	28
1551+00	-	1587+00	52	8,323	4,290	19
		Stage 2 Subtotal	556	53,456	27,375	133
Stage 3						
615+00	-	646+00	153	3,428	2,145	10
646+00	-	1459+00	121	4,885	2,500	12
1459+00	-	Brandybrook Rd	7	7,258	3,612	16
Brandybrook Rd	-	1531+29	2	8,861	4,392	19
1530+50		1551+00	121	10,631	6,000	28
1551+00	-	1587+00	240	12,706	7,053	30
		Stage 3 Subtotal	644	47,769	25,702	115
Stage 4						
615+00	-	646+00	188	--	--	1
1474+00	-	1492+00	4	3,930	--	9
1499+00	-	1531+29	5	1,352	--	3
1551+00	-	1587+00	94	3,242	--	8
Glacial Drumlin Trail			--	428	--	1
		Stage 4 Subtotal	291	8,524	--	21
CTH G						
Stage 2			54	1,096	--	2
Stage 4			18	--	--	2
		CTH G Subtotal	72	1,096		2
STH 18 East						
Stage 2			--	2,617	--	5
Stage 3			50	2,293	--	3
Stage 4			14	3,681	--	8
		STH 18 Subtotal	64	8,591		16
		UNDISTRIBUTED	164	6,405		20
		TOTAL 0010	1,806	134,511 *	53,077	336

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STATION	TO	STATION	LOCATION	COLORING CONCRETE RED 405.0100 CY	CONCRETE PAVEMENT 6-INCH 415.0060 SY	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH 416.0508 SY	CONCRETE PAVEMENT APPROACH SLAB 415.0410 SY
10+00	-	14+27.26	CTH E/DE ROUNDABOUT	45	--	202	--
10+00	-	14+28.56	USH 18 ROUNDABOUT	66	--	295	--
1484+85	-	1499+80	STH 83 LT	--	499	--	--
1531+05	-	1531+54	STH 83 LT	--	--	--	122
1530+70	-	1531+05	STH 83 RT	--	--	--	80
1532+24	-	1532+72	STH 83 LT	--	--	--	114
1531+88	-	1532+24	STH 83 RT	--	--	--	80
			TOTAL 0010	111	499	497	396

STATION	LOCATION	CONCRETE DRIVEWAY HES 7-INCH 416.0270 SY
1459+25	STH 83 LT	8
1459+50	STH 83 LT	9
Porthamel Ct	LT	18
1476+70	STH 83 LT	8
1479+00	STH 83 LT	8
1486+20	STH 83 LT	10
1488+35	STH 83 LT	9
1495+15	STH 83 LT	13
1495+90	STH 83 RT	14
1498+85	STH 83 LT	11
1504+75	STH 83 LT	9
1512+25	STH 83 RT	20
1512+65	STH 83 LT	7
1513+50	STH 83 RT	17
1514+00	STH 83 RT	16
1521+75	STH 83 RT	12
1524+45	STH 83 RT	33
1524+65	STH 83 LT	10
1526+60	STH 83 RT	23
1526+70 - 1529+60	STH 83 RT	84
1528+25 - 1530+85	STH 83 MEDIAN	84
1562+60	STH 83 LT	9
87+15	USH 18 LT	60
88+65	USH 18 LT	58
92+50	USH 18 LT	32
93+90	USH 18 LT	23
95+00	USH 18 LT	40
	TOTAL 0010	645

STATION	LOCATION	DRILLED TIE BARS 416.0610 EACH
1520+00	STH 83 LT	12
	TOTAL 0010	12

STATION	LOCATION	CONCRETE SURFACE DRAINS 416.1010 CY	REMARKS
625+00	LT	1	
LONDON DRIVE	--	1	NE QUAD
LONDON DRIVE	--	1	SE QUAD
HARVEST VIEW	--	1	NE QUAD
HARVEST VIEW	--	1	SE QUAD
646+90	LT	2	
648+45	RT	1	
SQUIRE ROAD	--	1	SW QUAD
SQUIRE ROAD	--	1	SE QUAD
CTH G	--	1	SW QUAD
CTH G	--	1	NW QUAD
BRANDYBROOK ROAD	--	1	NE QUAD
BRANDYBROOK ROAD	--	1	SE QUAD
W. CRIGLAS ROAD	--	1	NE QUAD
W. CRIGLAS ROAD	--	1	SE QUAD
1524+00	RT	1	PARKING LOT
HIGH MEADOW LANE	--	1	NE QUAD
HIGH MEADOW LANE	--	1	SE QUAD
GLACIER PASS	--	1	NE QUAD
GLACIER PASS	--	1	SE QUAD
BOYS SCHOOL ROAD	LT	1	
BOYS SCHOOL ROAD	RT	1	
1566+90	LT	1	
1572+20	RT	1	
	TOTAL 0010	25	

Location (STA)			ASPHALTIC MATERIAL PG64-22 TON 455.0115	ASPHALTIC MATERIAL PG64-28 TON 455.0120	Tack Coat GAL 455.0605	HMA PAVEMENT E-3 TON 460.1103	Incentive Density HMA Pavement DOL 460.2000	Asphaltic Surface Temporary TON 465.0125
Stage 1								
621+10	-	625+52	--	--	--	--	--	156
635+05	-	639+75	--	--	--	--	--	127
644+55	-	646+00	--	--	--	--	--	40
646+00		1459+00	--	--	--	--	--	352
1459+00	-	1467+48	--	--	--	--	--	223
1472+86	-	1475+95	--	--	--	--	--	39
1504+50	-	1512+25	--	--	--	--	--	290
1512+25	-	1528+23	58	--	--	1046	1046	--
Criglas Road			5	--	--	93	93	--
1526+03	-	1540+20	--	--	--	--	--	1000
1541+50	-	1542+85	--	--	--	--	--	23
1543+69	-	1546+73	--	--	--	--	--	107
82+89	-	84+21	--	--	--	--	--	7
Cymric Road			4	--	--	70	70	--
		Stage 1 Subtotal	67	0	0	1209	1209	1210
Stage 2								
615+00	-	646+00	77	--	--	1397	1397	--
646+00		1459+00	82	--	329	1355	1355	284
1459+00	-	Brandybrook Rd	114	--	--	2075	2075	120
Brandybrook Rd	-	1531+29	206	--	--	3752	3752	270
1530+50		1551+00	173	--	581	2874	2874	177
1551+00	-	1587+00	126	--	--	2286	2286	60
		Stage 2 Subtotal	778	0	910	13739	13739	911
Stage 3								
615+00	-	646+00	48	--	--	873	873	--
646+00		1459+00	68	--	273	1125	1125	220
1459+00	-	Brandybrook Rd	106	--	--	1933	1933	--
Brandybrook Rd	-	1531+29	132	--	--	2392	2392	--
1530+50		1551+00	151	--	508	2514	2514	436
1551+00	-	1587+00	182	--	--	3318	3318	290
		Stage 3 Subtotal	687	0	781	12155	12155	946
Stage 4								
615+00	-	646+00	--	102	465	1862	1862	--
646+00		1459+00	--	80	--	1323	1323	--
1474+00	-	1492+00	60	152	689	3857	3857	--
1499+00	-	1531+29	14	204	926	3962	3962	--
1530+50		1551+00	--	145	--	2396	2396	--
1551+00	-	1587+00	60	193	879	4609	4609	--
		Stage 4 Subtotal	134	876	2959	18009	18009	0
CTH G								
Stage 2			15	--	--	272	272	--
Stage 4			--	8	36	145	145	--
		CTH G Subtotal	15	8	36	417	417	0
STH 18 East								
Stage 2			11	--	--	206	206	--
Stage 3			22	--	--	408	408	--
Stage 4			--	36	166	663	663	--
		STH 18 Subtotal	34	36	166	1277	1277	0
		TOTALS	1715	920	4852	46806	46806	3067

ASPHALTIC SURFACE
465.0105

STATION	TO	STATION	LOCATION	TON	REMARKS
---	-	---	CTH E SW QUAD	41	MULTI-USE PATH
---	-	---	CTH E NW QUAD	40	MULTI-USE PATH
653+64	-	1459+00	STH 83 LT	79	MULTI-USE PATH
---	-	---	CTH DE SE QUAD	40	MULTI-USE PATH
---	-	---	CTH DE NE QUAD	40	MULTI-USE PATH
1459+00	-	Porthamel Ct	STH 83 LT	280	MULTI-USE PATH
Porthamel Ct	-	CTH G	STH 83 LT	136	MULTI-USE PATH
CTH G	-	Welsh Rd	STH 83 LT	304	MULTI-USE PATH
Welsh Rd	-	Benton Ct	STH 83 LT	176	MULTI-USE PATH
Benton Ct	-	Criglass Rd	STH 83 LT	76	MULTI-USE PATH
Criglass Rd	-	1520+00	STH 83 LT	59	MULTI-USE PATH
1520+00	-	Cymric Ct	STH 83 LT	133	MULTI-USE PATH
1523+50, 75' RT			STH 83 RT	23	Parking Lot
Cymric Ct	-	Bridge Deck	STH 83 LT	60	MULTI-USE PATH
1530+50	-	1531+25	STH 83 LT	16	MULTI-USE PATH
1530+50	-	1530+84	STH 83 RT	4	MULTI-USE PATH
---	-	---	GLACIAL DRUMLIN TRAIL	177	MULTI-USE PATH
1531+83	-	1540+58	STH 83 RT	78	MULTI-USE PATH
1532+72	-	1537+36	STH 83 LT	102	MULTI-USE PATH
1538+58	-	1540+58	STH 83 LT	36	MULTI-USE PATH
---	-	---	USH 18 SE QUAD	37	MULTI-USE PATH
---	-	---	USH 18 SW QUAD	38	MULTI-USE PATH
74+93	-	78+17	USH 18 RT	61	MULTI-USE PATH
74+76	-	78+17	USH 18 LT	62	MULTI-USE PATH
---	-	---	USH 18 NW QUAD	44	MULTI-USE PATH
---	-	---	USH 18 NE QUAD	55	MULTI-USE PATH
82+24	-	87+00	USH 18 LT	41	MULTI-USE PATH
1543+64	-	1546+72	STH 83 LT	61	MULTI-USE PATH
1547+52	-	1551+00	STH 83 LT	64	MULTI-USE PATH
1551+00	-	High Meadow Ln	STH 83 LT	72	MULTI-USE PATH
High Meadow Ln	-	Boys School Rd	STH 83 LT	63	MULTI-USE PATH
			TOTAL 0010	2498	

ASPHALTIC CURB
465.0310

STATION	TO	STATION	LOCATION	LF	REMARKS
1504+50	-	1510+25	STH 83	600	STAGE 1
			TOTAL 0010	600	

ASPHALTIC SURFACE
DRIVEWAYS AND FIELD ENTRANCES
465.0120

STATION	LOCATION	TON
616+90	STH 83 RT	1
622+70	STH 83 LT	2
622+90	STH 83 RT	9
623+85	STH 83 RT	9
625+50	STH 83 LT	2
627+25	STH 83 LT	2
630+25	STH 83 RT	16
630+50	STH 83 LT	43
637+40	STH 83 RT	9
55+82	CTH E LT	4
63+32	CTH DE RT	4
1459+35	STH 83 LT	11
Porthamel Ct	LT	2
1476+40	STH 83 RT	93
1478+50	STH 83 RT	29
CTH G	RT	23
1512+25	STH 83 RT	9
1513+50	STH 83 RT	4
1514+00	STH 83 RT	11
1519+85	STH 83 LT	16
51+10, Main St	RT	2
51+75, Main St	RT	2
51+85, Main St	LT	4
1521+75	STH 83 RT	3
1524+45	STH 83 RT	54
1526+70 - 1529+60	STH 83 RT	60
1536+28	STH 83 RT	52
1538+28	STH 83 RT	16
High Meadow Ln	LT	3
High Meadow Ln	RT	5
Boys School Rd	LT	33
1562+60	STH 83 LT	16
1567+90	STH 83 RT	13
1569+30	STH 83 RT	4
82+08	USH 18 RT	43
84+45	USH 18 LT	42
85+75	USH 18 LT	23
87+15, USH 18	USH 18 LT	13
88+65, USH 18	USH 18 LT	29
92+50, USH 18	USH 18 LT	9
92+50, USH 18	USH 18 RT	9
93+90, USH 18	USH 18 LT	5
95+00, USH 18	USH 18 LT	10
	TOTAL 0010	749

3

STATION	LOCATION	CULVERT PIPE TEMPORARY 18-INCH 520.4018 LF	CULVERT PIPE CORRUGATED STEEL 18-INCH 521.0118 LF	CULVERT PIPE CORRUGATED STEEL 24-INCH 521.0124 LF	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1 521.1518 EACH	APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 24-INCH 6 TO 1 521.1524 EACH	APRON ENDWALLS FOR CULVERT PIPE STEEL 24 INCH 521.1024 EACH	REMARKS
616+90	STH 83, RT	--	24	--	2	--	--	
622+60	STH 83, LT	20	--	--	--	--	--	STAGE 1
622+70	STH 83, LT	--	26	--	2	--	--	
622+92	STH 83, RT	--	26	--	2	--	--	
623+80	STH 83, RT	--	28	--	2	--	--	
627+00	STH 83, RT	--	24	--	2	--	--	
630+25	STH 83, RT	--	26	--	2	--	--	
630+50	STH 83, LT	--	--	66	--	2	--	
639+70	STH 83, LT	--	24	--	2	--	--	
48+30	CTH G, RT	--	28	--	2	--	--	
1495+91	STH 83, RT	--	20	--	2	--	--	
1524+40	STH 83, RT	--	50	--	2	--	--	
1568+00	STH 83, RT	--	--	28	--	2	--	
1577+18	STH 83, LT	--	--	37	--	--	1	CONNECT TO EXISTING PIPE
	TOTAL 0010	20	276	131	20	4	1	

522 CROSS PIPES

STATION	LOCATION	INVERT ELEVATION	DISCHARGE ELEVATION	CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH 522.0124 LF	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH 522.1024 EACH	MARKERS CULVERT END 633.5200 EACH	CONSTRUCTION STAKING PIPE CULVERTS 650.6000 EACH	JOINT TIES FOR CONCRETE PIPE**
627+65	STH 83	975.75	974.80	72	2	2	1	8
1462+78	STH 83	983.00	982.75	168	2	2	1	8
1569+09	STH 83	976.00	975.00	190	2	2	1	8
48+61	CTH G	998.30	996.25	80	2	2	1	8
	TOTAL 0010			510	8 *	8	4	

NOTE: *ADDITIONAL QUANTITIES SHOWN ELSEWHERE

**REINFORCED CONCRETE APRON ENDWALLS AND ADJOINING TWO SECTIONS OF CONCRETE PIPE SHALL BE TIED TOGETHER AS SHOWN ON THE STANDARD DETAIL DRAWINGS AND AS LOCATED IN THE MISCELLANEOUS QUANTITIES. JOINT TIES SHALL BE INCIDENTAL ITEMS INCLUDED IN THE COST OF THE CONCRETE PIPE.

PIPE LENGTHS DO NOT IINCLUDE APRON ENDWALL.

STATION	TO	STATION	LOCATION	WALL MODULAR BLOCK GRAVITY 532.0200.S SF
1479+50	-	1480+98	STH 83 LT	490
1514+15	-	1514+95	STH 83 RT	150
1528+12	-	1529+85	STH 83 LT	365
			TOTAL 0010	1005

ROUNDABOUT				CONCRETE CURB AND GUTTER					CONSTRUCTION STAKING	
				18-INCH TYPE A	30-INCH TYPE D	4-INCH SLOPED 36-INCH TYPE D	4-INCH SLOPED 36-INCH TYPE R	CONCRETE MEDIAN SLOPED NOSE	CURB, GUTTER AND CURB & GUTTER	
				601.0405	601.0411	601.0553	601.0580	620.0300	650.5500	
STATION	TO STATION	LOCATION		LF	LF	LF	LF	SF	LF	REMARKS
646+95.7	649+47	STH 83		---	---	244	---	---	244	LT
649+47	650+33.4	STH 83		---	86	---	---	---	86	LT
650+33.4	58+66.6	CTH E		---	173	---	---	---	173	SW QUAD
57+20.9	58+66.6	CTH E		---	152	---	---	---	152	RT
---	---	SQUIRE RD.		---	---	65	---	---	65	SE QUAD
---	---	SQUIRE RD.		---	---	94	---	---	94	SW QUAD
55+24.7	58+39.2	CTH E		---	304	---	---	---	304	LT
58+39.2	652+67.2	CTH E		---	103	---	---	---	103	NW QUAD
652+67.2	1459+00	STH 83		---	516	---	---	---	516	LT
647+92	647+99	STH 83		---	---	---	---	50	---	CENTER ISLAND, TYPE 1
647+99	649+47	STH 83		---	---	148	---	---	148	CENTER ISLAND LT
649+47	650+93.2	STH 83		---	148	---	---	---	148	CENTER ISLAND LT
650+93.2	13+62.6	STH 83		---	---	---	---	18	---	CENTER ISLAND, TYPE 2
13+62.6	13+81.9	STH 83		---	23	---	---	---	23	CENTER ISLAND
647+99	649+47	STH 83		---	---	149	---	---	149	CENTER ISLAND RT
649+47	650+94.5	STH 83		---	149	---	---	---	149	CENTER ISLAND RT
650+94.5	13+81.9	STH 83		---	---	---	---	15	---	CENTER ISLAND, TYPE 2
57+03	57+10	CTH E		---	---	---	---	38	---	CENTER ISLAND, TYPE 1
57+10	59+17.5	CTH E		---	210	---	---	---	210	CENTER ISLAND RT
59+17.5	12+77.6	CTH E		---	---	---	---	15	---	CENTER ISLAND, TYPE 2
57+10	59+17.8	CTH E		---	209	---	---	---	209	CENTER ISLAND LT
59+17.8	12+57.9	CTH E		---	---	---	---	18	---	CENTER ISLAND, TYPE 2
12+57.9	12+77.6	CTH E		---	24	---	---	---	24	CENTER ISLAND
10+00	14+27.26	CTH E/DE ROUNDABOUT		277	---	---	327	---	604	CENTER ISLAND
652+47	652+47	STH 83		---	---	---	---	16	---	SPLITTER ISLAND, TYPE 2
652+47	653+66	STH 83		---	218	---	---	---	218	SPLITTER ISLAND
653+66	653+66	STH 83		---	---	---	---	57	---	SPLITTER ISLAND, TYPE 1
11+59.9	11+82.8	STH 83		---	27	---	---	---	27	CENTER ISLAND
11+82.8	652+58.2	STH 83		---	---	---	---	15	---	CENTER ISLAND, TYPE 2
652+58.2	1459+00	STH 83		---	535	---	---	---	535	CENTER ISLAND, LT
11+59.9	652+59.5	STH 83		---	---	---	---	18	---	CENTER ISLAND, TYPE 2
652+59.5	1459+00	STH 83		---	538	---	---	---	538	CENTER ISLAND, RT
648+50.3	649+47	STH 83		---	---	101	---	---	101	RT
649+47	652+42.2	STH 83		---	97	---	---	---	97	RT
652+42.2	60+85	CTH DE		---	130	---	---	---	130	SE QUAD
60+85	63+51	CTH DE		---	274	---	---	---	274	RT
61+60	62+00	CTH DE		---	40	---	---	---	40	LT
61+60	653+47.6	CTH DE		---	229	---	---	---	229	NE QUAD
653+47.6	1459+00	STH 83		---	455	---	---	---	455	RT
10+54	10+72.8	CTH DE		---	22	---	---	---	22	CENTER ISLAND
10+54	60+84	CTH DE		---	---	---	---	18	---	CENTER ISLAND, TYPE 2
60+84	63+05.5	CTH DE		---	223	---	---	---	223	CENTER ISLAND, RT
63+05.5	63+13.4	CTH DE		---	---	---	---	80	---	CENTER ISLAND, TYPE 1
10+72.8	60+82.1	CTH DE		---	---	---	---	15	---	CENTER ISLAND, TYPE 2
60+82.1	63+05.5	CTH DE		---	224	---	---	---	224	CENTER ISLAND, LT
1530+50	1531+25.4	STH 83		---	75	---	---	---	75	LT
1530+50	1531+06.8	STH 83		---	57	---	---	---	57	CENTER ISLAND, LT
1530+50	1530+94.	STH 83		---	44	---	---	---	44	CENTER ISLAND, RT
1530+50	1530+84.	STH 83		---	34	---	---	---	34	RT
1532+72	1537+72.5	STH 83, PICK 'N SAVE		---	547	---	---	---	547	LT
1532+36	1537+63.1	STH 83		---	529	---	---	---	529	CENTER ISLAND, LT
1532+23	1537+63.	STH 83		---	541	---	---	---	541	CENTER ISLAND, RT
1531+87	1540+55.9	STH 83		---	874	---	---	---	874	RT

- CONTINUED -

CONTINUED

ROUNDABOUT

STATION	TO	STATION	LOCATION	CONCRETE CURB AND GUTTER 18-INCH TYPE A 601.0405 LF	30-INCH TYPE D 601.0411 LF	4-INCH SLOPED 36-INCH TYPE D 601.0553 LF	4-INCH SLOPED 36-INCH TYPE R 601.0580 LF	CONCRETE MEDIAN SLOPED NOSE 620.0300 SF	CONSTRUCTION STAKING CURB, GUTTER AND CURB & GUTTER 650.5500 LF	REMARKS
1532+63		1532+70.	STH 83	---	---	---	---	43	---	CENTER ISLAND, TYPE 1
1538+04		1538+11.	STH 83	---	---	---	---	53	---	CENTER ISLAND, TYPE 1
1538+14		1538+20.	STH 83	---	---	---	---	14	---	CENTER ISLAND, TYPE 2
1538+40		1538+45.	STH 83	---	---	---	---	14	---	CENTER ISLAND, TYPE 2
1538+59		1538+66.	STH 83	---	---	---	---	52	---	CENTER ISLAND, TYPE 1
1538+74		1538+81.	STH 83	---	---	---	---	44	---	CENTER ISLAND, TYPE 1
1537+95		1537+95.	PICK 'N SAVE DRIVE	---	6	---	---	---	6	LT
1538+15		1541+16.	STH 83, PICK 'N SAVE	---	332	---	---	---	332	LT
1538+80		1541+29.6	STH 83	---	252	---	---	---	252	CENTER ISLAND, LT
1538+81		1541+30.	STH 83	---	253	---	---	---	253	CENTER ISLAND, RT
10+06		10+22.	USH 18 ROUNDABOUT	---	22	---	---	---	22	CENTER ISLAND, RT
1541+16		78+66.	STH 83	---	111	---	---	---	111	SW QUAD
1540+56		81+02.	STH 83	---	140	---	---	---	140	SE QUAD
74+67		78+66.	USH 18	---	404	---	---	---	404	RT
74+58		74+58.	USH 18 ROUNDABOUT	---	19	---	---	---	19	CENTER ISLAND
74+60		79+28.	USH 18	---	465	---	---	---	465	CENTER ISLAND, RT
74+60		79+29.	USH 18	---	477	---	---	---	477	CENTER ISLAND, LT
74+49		75+10.	USH 18	---	66	---	---	---	66	SPLITTER ISLAND, RT
74+53		75+11.	USH 18	---	63	---	---	---	63	SPLITTER ISLAND, LT
75+17		79+16.	USH 18	---	414	---	---	---	414	LT
13+20		13+44.	USH 18 ROUNDABOUT	---	28	---	---	---	28	CENTER ISLAND, RT
74+49		74+53.	USH 18 ROUNDABOUT	---	---	---	---	18	---	SPLITTER ISLAND, TYPE 2
74+56		74+62.	USH 18 ROUNDABOUT	---	---	---	---	21	---	CENTER ISLAND, TYPE 2
74+56		74+62.	USH 18 ROUNDABOUT	---	---	---	---	16	---	CENTER ISLAND, TYPE 2
75+10		75+17.	USH 18	---	---	---	---	52	---	SPLITTER ISLAND, TYPE 1
13+16		13+21.	USH 18 ROUNDABOUT	---	---	---	---	22	---	CENTER ISLAND, TYPE 2
13+43		13+48.	USH 18 ROUNDABOUT	---	---	---	---	18	---	CENTER ISLAND, TYPE 2
10+00		14+29.	USH 18 ROUNDABOUT	227	---	---	302	---	529	
81+02		82+96.	USH 18	---	243	---	---	---	243	RT
83+50		83+88.	USH 18	---	49	---	---	---	49	RT
11+13		11+36.	USH 18 ROUNDABOUT	---	26	---	---	---	26	CENTER ISLAND, RT
80+95		82+77.	USH 18	---	187	---	---	---	187	CENTER ISLAND, RT
80+97		82+77.	USH 18	---	179	---	---	---	179	CENTER ISLAND, LT
81+57		87+00.	USH 18	---	549	---	---	---	549	LT
11+10		11+15.	USH 18 ROUNDABOUT	---	---	---	---	22	---	CENTER ISLAND, TYPE 2
11+34		11+39.	USH 18 ROUNDABOUT	---	---	---	---	18	---	CENTER ISLAND, TYPE 2
82+77		82+84.	USH 18	---	---	---	---	43	---	CENTER ISLAND, TYPE 1
81+57		1543+37.	STH 83	---	143	---	---	---	143	NE QUAD
1543+37		1544+50.	STH 83	---	113	---	---	---	113	RT
12+24		12+34.	USH 18 ROUNDABOUT	---	12	---	---	---	12	CENTER ISLAND, RT
1543+92		1551+00.	USH 18	---	387	421	---	---	808	CENTER ISLAND, RT
1543+91		1551+00.	USH 18	---	366	445	---	---	811	CENTER ISLAND, LT
79+16		1543+34.	USH 18	---	99	---	---	---	99	NW QUAD
1543+34		1546+83.	USH 18	---	392	---	---	---	392	LT
1547+08		1551+00.	USH 18	---		405	---	---	405	LT
12+20.		12+26.	USH 18 ROUNDABOUT	---	---	---	---	22	---	CENTER ISLAND, TYPE 2
12+33.		12+39.	USH 18 ROUNDABOUT	---	---	---	---	18	---	CENTER ISLAND, TYPE 2
			TOTAL 0010	504	13607 *	2072 *	629	863 *	16812 *	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ROADWAY C&G

Location (STA)	Concrete Curb & Gutter 18-Inch Type D LF 601.0407	30-Inch Type D LF 601.0411	6-Inch Sloped 30-Inch Type J LF 601.0415	Integral 30-Inch Type J LF 601.0454	4-Inch Sloped 36-Inch Type D LF 601.0553	Concrete Median Sloped Nose SF 620.0300	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF 650.5500
Stage 1							
1512+50 - 1528+50	--	1,695	--	--	--	--	1,695
Stage 2							
615+00 - 646+00	--	--	--	--	187	--	187
1459+00 - Brandybrook Rd	--	--	4,259	319	--	56	4,578
Brandybrook Rd - 1531+29	--	4,580	3,051	--	--	170	7,631
1551+00 - 1587+00	--	--	--	--	3,178	108	3178
Stage 3							
615+00 - 646+00	--	--	--	--	240	--	240
1459+00 - Brandybrook Rd	--	44	4,447	--	--	270	4491
Brandybrook Rd - 1531+29	--	3,898	223	1,174	--	220	5,295
1551+00 - 1587+00	--	--	--	--	3,087	107	3087
Stage 4							
1459+00 - Brandybrook Rd	--	--	1,267	--	--	234	1267
Brandybrook Rd - 1531+29	433	1,762	378	--	--	331	2,573
1551+00 - 1587+00	--	--	--	--	597	101	597
USH 18							
87+00 - 97+00	--	1,324	--	--	--	--	1324
TOTALS 0010	433 *	13,303 *	13,625	1,493	7,289 *	1,597 *	36,143 *

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ROADWAY

Location (STA)		Base Aggregate Dense 1-1/4 Inch* TON 305.0120	Concrete Sidewalk 5-Inch SF 602.0410	Curb Ramp Detectable Warning Field Yellow SF 602.0505
1471+75 - CTH G	MED	90	3,577	48
Porthamel Ct				
SE Quadrant	RT	2	35	8
SW Quadrant	LT	8	246	24
NE Quadrant	RT	2	35	8
NW Quadrant	LT	8	244	24
CTH G				
SE Quadrant	RT	2	35	8
SW Quadrant	LT	10	314	24
Island	LT	3	99	32
NW Quadrant	LT	6	190	16
Brandybrook Rd				
SE Quadrant	RT	3	64	8
NW Quadrant	LT	2	32	8
Brandybrook to Welsh	RT	239	6,913	32
Brandybrook to Welsh	MED	103	4,138	32
Welsh Rd				
SW Quadrant	LT	10	326	24
NW Quadrant	LT	8	246	24
Welsh Rd to South St	RT	170	5,431	32
Welsh Rd to South St	MED	44	1,775	32
Benton Ct				
SW Quadrant	LT	8	263	24
NW Quadrant	LT	8	263	24
South St to Criglass Rd	RT	81	2,517	32
South St to Criglass Rd	MED	39	1,551	32
Criglass Rd				
SW Quadrant	LT	8	273	24
NW Quadrant	LT	8	244	24
Criglass Rd to Main St	RT	59	1,703	32
Criglass Rd to Main St	MED	35	1,412	32
Main St				
SW Quadrant	LT	5	109	32
NW Quadrant	LT	4	101	32
Main St to Bridge	RT	180	5,232	32
Main St to Bridge	MED	66	1,901	48
Cymric Ct				
SW Quadrant	LT	8	252	24
NW Quadrant	LT	15	542	24
High Meadow Lane				
SE Quadrant	RT	2	43	8
SW Quadrant	LT	12	396	24
NE Quadrant	RT	2	39	8
NW Quadrant	LT	10	341	24
1551+00 to Boys School Rd	MED	55	2,222	48
Boys School Rd				
SE Quadrant	RT	2	35	8
SW Quadrant	LT	9	307	24
NE Quadrant	RT	2	35	8
NW Quadrant	LT	13	438	24
Glacier Pass				
SE Quadrant	RT	2	43	8
SW Quadrant	LT	2	35	8
NE Quadrant	RT	3	58	8
NW Quadrant	LT	2	35	8
Boys School to 1571+50	MED	100	3,973	48
USH 18	LT	180	5,200	32
USH 18	RT	28	787	32
TOTALS 0010		1,658 *	54,050 *	1,120 *

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ROUNDABOUTS

CURB RAMP DETECTABLE WARNING FIELD YELLOW 602.0505

STATION	TO	STATION	LOCATION	SF	REMARKS
650+62	-	650+62	STH 83	14	LT
58+90	-	58+90	CTH E	14	RT
58+83	-	58+83	CTH E	14	LT
652+92	-	652+92	STH 83	14	LT
650+72	-	650+72	STH 83	28	CENTER ISLAND
58+94	-	58+94	CTH E	28	CENTER ISLAND
652+86	-	652+86	STH 83	28	SPLITTER ISLAND
652+78	-	652+78	STH 83	28	CENTER ISLAND
650+64	-	650+64	STH 83	14	RT
61+14	-	61+14	CTH DE	14	RT
61+12	-	61+12	CTH DE	14	LT
652+87	-	652+87	STH 83	14	RT
61+06	-	61+06	CTH DE	28	CENTER ISLAND
1537+50	-	1537+50	STH 83	18	LT
1537+82	-	1537+82	STH 83	18	LT
1537+92	-	1537+92	STH 83	18	LT
1538+44	-	1538+44	STH 83	18	LT
1541+00	-	1541+00	STH 83	14	RT
1541+10	-	1541+10	STH 83	28	CENTER ISLAND
1541+10	-	1541+10	STH 83	14	LT
74+76	-	74+76	USH 18	28	CENTER ISLAND
74+83	-	74+83	USH 18	14	RT
74+84	-	74+84	USH 18	28	SPLITTER ISLAND
74+91	-	74+91	USH 18	14	LT
78+90	-	78+90	USH 18	14	LT
79+00	-	79+00	USH 18	28	CENTER ISLAND
79+06	-	79+06	USH 18	14	RT
81+19	-	81+19	USH 18	28	CENTER ISLAND
81+22	-	81+22	USH 18	14	LT
81+29	-	81+29	USH 18	14	RT
1543+14	-	1543+14	STH 83	28	CENTER ISLAND
1543+18	-	1543+18	STH 83	14	LT
1543+21	-	1543+21	STH 83	14	RT
1546+83	-	1546+83	STH 83	18	LT
1547+38	-	1547+38	STH 83	18	LT
TOTAL 0010				668 *	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

ROUNDABOUTS

CONCRETE SIDEWALK, 5-INCH 602.0410

STATION	TO	STATION	LOCATION	SF	REMARKS
650+62	-	650+62	STH 83	37	LT
650+64	-	650+64	STH 83	37	RT
650+72	-	650+72	STH 83	2116	CENTER ISLAND
58+83	-	58+83	CTH E	37	LT
58+90	-	58+90	CTH E	37	RT
58+94	-	58+94	CTH E	1376	CENTER ISLAND
61+06	-	61+06	CTH DE	851	CENTER ISLAND
61+12	-	61+12	CTH DE	37	LT
61+14	-	61+14	CTH DE	37	RT
652+78	-	652+78	STH 83	1669	CENTER ISLAND
652+86	-	652+86	STH 83	745	SPLITTER ISLAND
652+87	-	652+87	STH 83	37	RT
652+92	-	652+92	STH 83	37	LT
1531+90	-	1540+70	STH 84	4513	RT
1537+50	-	1537+50	STH 83	177	LT
1537+82	-	1537+82	STH 83	203	LT
1538+15	-	1538+15	STH 83	513	CENTER ISLAND
1538+44	-	1538+44	STH 83	179	LT
1541+00	-	1541+00	STH 83	77	RT
1541+10	-	1541+10	STH 83	1023	CENTER ISLAND
1541+10	-	1541+10	STH 83	76	LT
74+76	-	74+76	USH 18	401	CENTER ISLAND
74+83	-	74+83	USH 18	161	RT
74+80	-	79+00	USH 18	6282	CENTER ISLAND
74+84	-	74+84	USH 18	370	SPLITTER ISLAND
74+91	-	74+91	USH 18	28	LT
78+90	-	78+90	USH 18	25	LT
79+00	-	79+00	USH 18	886	CENTER ISLAND
79+06	-	79+06	USH 18	76	RT
81+19	-	81+19	USH 18	2121	CENTER ISLAND
81+22	-	81+22	USH 18	77	LT
81+29	-	81+29	USH 18	76	RT
1543+14	-	1543+14	STH 83	579	CENTER ISLAND
1543+18	-	1543+18	STH 83	66	LT
1543+21	-	1543+21	STH 83	76	RT
1546+83	-	1546+83	STH 83	147	LT
1547+38	-	1547+38	STH 83	194	LT
TOTAL 0010				25380 *	

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE

3

STRUCTURE NO.	STATION	OFFSET	LOCATION	COVER PLATES TEMPORARY 611.8120.S EACH
STAGE 1				
19F	1515+20	10' LT	STH 83	1
19K	1519+26	9.75' LT	STH 83	1
20I	1525+10	10' LT	STH 83	1
STAGE 2				
--	648+00	LT	STH 83	1
--	651+40	LT	STH 83	1
--	651+40		STH 83	1
--	652+20	LT	STH 83	1
--	653+55	LT	STH 83	2
--	657+00		STH 83	1
11B	1474+90	10' LT	STH 83	1
11D	1472+00	4' LT	STH 83	1
11E	1472+00	10' LT	STH 83	1
13B	1481+92	4' LT	STH 83	1
13C	1481+92	10' LT	STH 83	1
14B	1485+90	5.6' LT	STH 83	1
14G	1488+00	4' RT	STH 83	1
14H	1488+00	10' RT	STH 83	1
16C	1493+95	39' LT	STH 83	1
18O	1500+77	41' LT	STH 83	1
18P	1500+75	4' RT	STH 83	1
18Q	1500+75	10' RT	STH 83	1
19E	1515+20	4' LT	STH 83	1
19J	1519+26	4' LT	STH 83	1
20A	1528+52	9' RT	STH 83	1
20B	1528+52	3' RT	STH 83	1
--	1533+00	RT	STH 83	1
--	1535+50	LT	STH 83	1
--	1537+40	RT	STH 83	1
--	1540+00	RT & LT	STH 83	2
--	1541+00	RT & LT	STH 83	3
--	1543+60	RT	STH 83	1
--	1543+70	LT	STH 83	1
--	1544+90	RT	STH 83	1
--	1547+60	LT	STH 83	1
--	75+10	RT	USH 18	1
--	75+30	LT	USH 18	1
--	78+10	RT	USH 18	1
--	78+10	LT	USH 18	1
--	81+70	RT	USH 18	1
--	81+70	LT	USH 18	1
			TOTAL 0010	44 *

STATION TO STATION	LOCATION	CONCRETE BARRIER SINGLE-FACED 32-INCH 603.0105 LF	CONCRETE BARRIER TYPE S32 603.1132 LF	CONSTRUCTION STAKING CONCRETE BARRIER 650.7500 LF
1482+70 - 1484+25	STH 83 RT	155	-	155
1531+25 - 1531+45	STH 83 LT	-	17	-
1532+45 - 1532+70	STH 83 LT	-	27	-
	TOTAL 0010	155	44	155

Location (STA)	Concrete Barrier Temporary Precast Delivered LF 603.8000	Concrete Barrier Temporary Precast Installed LF 603.8125	Crash Cushion Temporary EACH 614.0905
Stage 1			
1531+00 - 1536+00	600	600	2
Stage 2			
1531+00 - 1536+00	--	--	3
TOTALS	600	600	5

STATION	LOCATION	RIPRAP MEDIUM 606.0200 CY	GEOTEXTILE FABRIC TYPE HR 645.0120 SY
628+50	STH 83 RT	4	18
628+75	STH 83 LT	4	18
642+50	STH 83 LT	4	18
643+10	STH 83 RT	4	18
646+90	STH 83 LT	1	12
648+45	STH 83 RT	1	8
1462+50	STH 83 LT	13	45
1462+75	STH 83 LT	4	18
1462+75	STH 83 RT	4	18
1464+00	STH 83 LT	13	45
1470+30	STH 83 LT	4	18
1482+00	STH 83 LT	13	45
1483+00	STH 83 LT	4	18
1488+00	STH 83 RT	4	18
1491+00	STH 83 RT	4	18
1494+00	STH 83 RT	4	18
1495+00	STH 83 RT	4	18
1502+00	STH 83 RT	4	18
1522+10	STH 83 RT	8	25
1522+75	STH 83 LT	4	18
1523+50	STH 83 LT	4	18
1524+10	STH 83 RT	4	18
1552+00	STH 83 RT	4	18
1560+50	STH 83 LT	4	18
1565+00	STH 83 LT	13	45
1568+00	STH 83 LT	4	18
1569+00	STH 83 LT	4	18
1569+00	STH 83 RT	4	18
1571+00	STH 83 LT	4	18
1577+00	STH 83 LT	4	18
--	SQUIRE RD SW	1	8
--	SQUIRE RD SE	1	8
55+20	CTH E LT	1	8
62+05	CTH DE LT	1	8
63+55	CTH DE RT	1	8
77+65	USH 18 LT	8	25
UNDISTRIBUTED		10	30
	TOTAL 0010	177	734

3

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PIPE #	STRUCTURES FROM	TO	PIPE SIZE	PIPE LENGTH	608.0312 STORM SEWER PIPE RC, CLASS III, 12-INCH LF	608.0412 STORM SEWER PIPE RC, CLASS IV, 12-INCH LF	608.0315 STORM SEWER PIPE RC, CLASS III, 15-INCH LF	608.0318 STORM SEWER PIPE RC, CLASS III, 18-INCH LF	610.0424 STORM SEWER PIPE RC, HE, CLASS HE-IV, 24X38-INCH LF	610.0129 STORM SEWER PIPE RC, HE, CLASS HE-III, 29X45-INCH LF	610.0134 STORM SEWER PIPE RC, HE, CLASS HE-III, 34X53-INCH LF	520.8000 CONCRETE COLLARS FOR PIPE EACH	SPV.0035.01 CONCRETE MASONRY ENDWALLS SPECIAL CY	PIPE SLOPE	INVERT ELEVATION UPPER	LOWER	MH/INLET RIM ELEV.	STRUCTURE DEPTH
P1A	1A	1B	12	6.2	---	6.2	---	---	---	---	---	1.0	---	1.61%	986.31	986.21	989.96	3.65
P1B	1B	1C	12	109.6	---	109.6	---	---	---	---	---	---	---	1.38%	986.21	984.7	990.23	4.02
P2A	2A	2C	12	73.5	---	73.5	---	---	---	---	---	1.0	---	0.50%	990.92	990.55	994.67	3.75
P2B	2B	2C	12	73.5	---	73.5	---	---	---	---	---	---	---	0.50%	990.92	990.55	994.67	3.75
P2C	2C	2D	12	85.9	---	85.9	---	---	---	---	---	---	---	0.30%	990.55	990.29	992.91	2.36
P3A	3A	3B	12	7.6	---	7.6	---	---	---	---	---	---	---	2.50%	990.65	990.46	993.85	3.20
P3B	3B	3C	12	16.2	---	16.2	---	---	---	---	---	---	---	1.98%	990.46	990.14	993.65	3.19
P3C	3C	3D	12	43.4	43.4	---	---	---	---	---	---	---	---	0.55%	990.14	989.90	993.37	3.23
P4A	4A	4B	12	29	29.0	---	---	---	---	---	---	---	---	0.28%	990.74	990.66	994.44	3.70
P4B	4B	4C	12	35.5	35.5	---	---	---	---	---	---	---	---	0.45%	990.66	990.50	994.34	3.68
P5A	5A	5B	12	4.0	---	4.0	---	---	---	---	---	---	---	1.00%	987.72	987.68	990.91	3.19
P5B	5B	5C	12	25.6	---	25.6	---	---	---	---	---	---	---	0.86%	987.68	987.46	990.80	3.12
P5C	5C	5D	12	131.9	131.9	---	---	---	---	---	---	---	---	0.35%	987.46	987.00	990.29	2.83
P6A	6A	6B	12	17.8	17.8	---	---	---	---	---	---	---	---	0.28%	988.49	988.44	992.46	3.97
P6B	6B	6C	12	13.1	13.1	---	---	---	---	---	---	---	---	0.31%	988.44	988.40	992.78	4.34
P6C	6C	6D	12	43.6	43.6	---	---	---	---	---	---	---	---	3.90%	988.40	986.70	992.87	4.47
P21A	21A	21B	12	30.0	---	30.0	---	---	---	---	---	1.0	---	0.70%	1004.23	1004.02	1007.71	3.48
P21B	21B	21C	12	20.0	---	20.0	---	---	---	---	---	---	---	0.70%	1004.02	1003.88	1007.81	3.79
P21C	21C	21D	12	30.0	---	30.0	---	---	---	---	---	---	---	0.70%	1003.88	1003.67	1007.81	3.93
P21D	21D	21E	12	62.1	62.1	---	---	---	---	---	---	---	---	1.08%	1003.67	1003	1007.73	4.06
P22A	22A	22B	12	29.0	---	29.0	---	---	---	---	---	1.0	---	1.00%	998.44	998.15	1001.94	3.50
P22B	22B	22C	12	13.9	---	13.9	---	---	---	---	---	---	---	1.01%	998.15	998.01	1002.04	3.89
P22C	22C	22D	12	37.1	---	37.1	---	---	---	---	---	---	---	0.49%	998.01	997.83	1001.90	3.89
P22D	22D	22E	12	26.2	26.2	---	---	---	---	---	---	---	---	1.45%	997.83	997.45	1001.96	4.13
P22K	22K	22L	38X24	400.8	---	---	---	---	400.8	---	---	---	---	0.61%	985.00	982.55	991.521	6.52
P22L	22L	22M	38X24	37.5	---	---	---	---	37.5	---	---	---	---	0.13%	982.55	982.50	988.33	5.78
P23A	23A	23B	12	28	28.0	---	---	---	---	---	---	---	---	0.96%	991.11	990.84	993.33	2.22
P24A	24A	24B	12	54.4	---	54.4	---	---	---	---	---	---	---	2.57%	994.40	993.00	998.15	3.75
P24B	24B	24C	12	52.4	52.4	---	---	---	---	---	---	---	---	2.57%	993.00	991.65	997.19	4.19
P24C	24C	24D	12	36.1	36.1	---	---	---	---	---	---	---	---	2.57%	991.65	990.72	995.85	4.20
P24D	24D	24E	12	152.7	152.7	---	---	---	---	---	---	---	---	2.57%	990.72	986.80	994.99	4.27
P24E	24E	24F	18	104.8	---	---	---	104.8	---	---	---	1.0	---	2.48%	986.80	984.20	990.87	4.07
P24F	24F	26F	53X34	29.0	---	---	---	---	---	---	29.0	---	---	0.14%	982.08	982.04	989.06	6.98
P24G	24G	24H	12	43.6	---	43.6	---	---	---	---	---	---	---	1.58%	994	993.311364	997.69	3.69
P24H	24H	24B	12	19.7	19.7	---	---	---	---	---	---	1.0	---	1.58%	993.31	993.00	997.35	4.04
P25A	25A	24H	12	37.3	---	37.3	---	---	---	---	---	---	---	0.78%	987.09	986.80	990.93	3.84
P25B	25B	24E	12	14.8	14.8	---	---	---	---	---	---	1.0	---	1.55%	987.03	986.80	990.87	3.84
P25C	25C	25B	12	29.1	---	29.1	---	---	---	---	---	---	---	1.00%	987.32	987.03	990.81	3.49
P26A	26A	26B	45X29	192.5	---	---	---	---	---	192.5	---	---	---	0.12%	982.95	982.72	-	-
P26B	26B	26C	53X34	137.7	---	---	---	---	---	---	137.7	---	---	0.09%	982.30	982.17	986.55	4.25
P26C	26C	26D	53X34	42.1	---	---	---	---	---	---	42.1	---	---	0.10%	982.17	982.13	989.60	7.43
P26D	26D	26E	53X34	30.6	---	---	---	---	---	---	30.6	---	---	0.10%	982.13	982.10	990.87	8.74
P26E	26E	24F	53X34	21.7	---	---	---	---	---	---	21.7	---	---	0.09%	982.10	982.08	988.91	6.81
P26F	26F	26G	53X34	49	---	---	---	---	---	---	49.0	---	---	0.08%	982.04	982.00	988.96	6.92
P26L	26L	26C	12	15.0	15.0	---	---	---	---	---	---	---	---	1.00%	983.23	983.08	985.15	1.92
P26S	26S	26R	38X24	38.6	---	---	---	---	38.6	---	---	---	---	0.13%	982.50	982.45	-	-
P26R	26R	26P	38X24	29.8	---	---	---	---	29.8	---	---	---	---	0.17%	982.45	982.40	987.16	4.71
P26P	26P	26N	38X24	13.2	---	---	---	---	13.2	---	---	1.0	---	0.15%	982.40	982.38	987.72	5.32
P26N	26N	26M	38X24	29.9	---	---	---	---	29.9	---	---	---	---	0.17%	982.38	982.33	987.62	5.24
P26M	26M	26B	38X24	15.0	---	---	---	---	15.0	---	---	1.0	---	0.20%	982.33	982.30	987.06	4.73
P30A	30A	ES	12	37.2	---	37.2	---	---	---	---	---	1.0	---	0.48%	982.18	982.00	985.74	3.56
P30B	EP	EW	15	8.0	---	---	8.0	---	---	---	---	1	7.9					
P31A	31A	ES	12	11.1	---	11.1	---	---	---	---	---	---	---	0.27%	982.95	982.92	985.50	2.55
P31B	31B	31C	12	30.0	---	30.0	---	---	---	---	---	1.0	---	0.30%	983.04	982.95	986.17	3.13
P31C	31C	ES	12	9.1	---	9.1	---	---	---	---	---	---	---	0.33%	982.95	982.92	985.60	2.65
P32A	32A	32B	12	18.0	---	18.0	---	---	---	---	---	---	---	1.22%	983.25	983.03	987.12	3.87
P32B	32B	32C	12	23.3	23.3	---	---	---	---	---	---	1.0	---	1.12%	983.03	982.77	987.44	4.41
P32C	32C	32D	12	34.1	34.1	---	---	---	---	---	---	1.0	---	1.09%	982.77	982.40	987.92	5.15
P32D	32D	32E	12	31.0	31.0	---	---	---	---	---	---	---	---	1.29%	982.40	982.00	987.28	4.88
P32F	32F	32G	45x29	53.8	---	---	---	---	---	53.8	---	---	---	0.46%	982.00	981.75	-	-
P33A	33A	33B	12	51.0	51.0	---	---	---	---	---	---	---	---	1.35%	983.59	982.90	987.95	4.36
P33B	33B	33C	12	100.0	100.0	---	---	---	---	---	---	---	---	0.65%	982.90	982.25	987.31	4.41
P33C	33C	33D	18	26.1	---	---	---	26.1	---	---	---	1.0	---	0.77%	981.75	981.55	986.88	5.13
P33D	33D	33E	18	52.6	---	---	---	52.6	---	---	---	---	---	1.05%	981.55	981.00	986.88	5.33
P33F	33F	33B	12	49.3	49.3	---	---	---	---	---	---	---	---	1.34%	983.56	982.90	987.93	4.37
P33G	33G	33H	12	34.4	---	34.4	---	---	---	---	---	---	---	0.49%	982.49	982.32	986.73	4.24
P33H	33H	33C	18	12.7	---	---	---	12.7	---	---	---	1.0	---	0.55%	981.82	981.75	986.90	5.08
P34A	34A	34B	12	42.0	---	42.0	---	---	---	---	---	---	---	0.29%	986.27	986.15	990.06	3.79
P34B	34B	34C	12	9.0	9.0	---	---	---	---	---	---	1.0	---	1.22%	986.15	986.04	990.38	4.23
P34C	34C	34D	12	169.2	169.2	---	---	---	---	---	---	---	---	0.76%	986.04	984.76	990.69	4.65
P34D	34D	34E	12	99.3	99.3	---	---	---	---	---	---	---	---	2.03%	984.76	982.74	988.87	4.11
P34E	34E	34F	12	85.9	85.9	---	---	---	---	---	---	1.0	---	2.03%	982.74	981.00	988.71	5.97
P34G	34G	34C	12	10.0	10.0	---	---	---	---	---	---	---	---	4.00%	986.44	986.04	990.38	3.94
P34H	34H	34J	12	30.0	---	30.0	---	---	---	---	---	---	---	0.30%	984.88	984.79	988.77	3.89
P34J	34J	34D	12	20.2	---	20.2	---	---	---	---	---	---	---	0.15%	984.79	984.76	988.85	4.06
P35A	35A	35B	12	60.3	---	60.3	---	---	---	---	---	---	---	0.83%	990	989.50	993.10	3.10
P36A	36A	36B	12	43.3	---	43.3	---	---	---	---	---	---	---	1.20%	989.22	988.7	993.10	3.88
P36B	36B	36C	12	35.5	35.5	---	---	---	---	---	---	---	---	0.56%	988.7	988.50	991.79	3.09
TOTAL					**1418.9** *	**1062.1**	**8.0** *	**196.2** *	**564.8**	**246.3**	**310.1**	**18**	**7.9**					

Notes:
Stations, offsets, and elevations are to flowline of inlets.
Stations, offsets, and elevations are to end of apron endwall.
Stations, offsets, and elevations are to center of manhole.

ROUNDABOUT STORM SEWER

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES	SHEET:	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

PIPE	FROM	TO	INLET ELEV.	DISCH. ELEV.	SLOPE	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH 608.0312 LF	15-INCH 608.0315 LF	18-INCH 608.0318 LF	24-INCH 608.0324 LF	27-INCH 608.0327 LF	30-INCH 608.0330 LF
P7A	7A	7B	985.82	985.60	0.85%	20	--	--	--	--	--
P7B	7B	7C	985.31	985.05	0.90%	--	--	--	29	--	--
P7C	7C	7D	984.95	984.80	0.68%	--	--	--	22	--	--
P7D	7D	7F	984.75	984.40	0.68%	--	--	--	29	--	--
P7E	7E	7F	985.32	984.60	1.60%	20	--	--	--	--	--
P7F	7F	7G	984.40	984.00	1.21%	--	--	--	33	--	--
P7H	7H	7J	987.17	987.00	0.59%	29	--	--	--	--	--
P7J	7J	7B	987.00	985.31	0.50%	--	--	335	--	--	--
P8A	8A	8B	993.50	991.80	2.83%	--	--	53	--	--	--
P8B	8B	8C	991.80	991.60	1.03%	--	--	29	--	--	--
P8C	8C	8D	991.60	991.40	0.91%	--	--	22	--	--	--
P8D	8D	8E	991.40	991.10	1.03%	--	--	29	--	--	--
P8E	8E	8I	991.10	986.50	2.03%	--	--	--	212	--	--
P8F	8F	8G	987.07	986.75	0.93%	29	--	29	--	--	--
P8G	8G	8H	986.75	986.50	0.68%	--	--	22	--	--	--
P8H	8H	8I	986.50	986.10	0.86%	--	--	29	--	--	--
P8I	8I	8J	986.10	985.75	1.15%	--	--	--	52	--	--
P9A	9A	9B	1000.96	1000.50	1.36%	34	--	--	--	--	--
P9B	9B	9C	1000.10	999.75	0.92%	--	--	38	--	--	--
P10A	10A	10B	1000.96	999.50	3.89%	35	--	--	--	--	--
P10B	10B	10C	999.50	999.25	1.04%	--	--	24	--	--	--
P11A	11A	11B	1015.99	1015.50	2.23%	22	--	--	--	--	--
P11B	11B	11C	1015.25	1015.00	0.86%	29	--	--	--	--	--
P11C	11C	11E	1014.60	1009.90	1.60%	--	--	--	294	--	--
P11D	11D	11E	1010.52	1009.75	2.13%	8	--	--	--	--	--
P11E	11E	11F	1009.75	1006.50	2.07%	--	--	--	156	--	--
P11F	11F	11G	1006.40	1005.00	3.27%	--	--	--	42	--	--
P12A	12A	12B	1009.35	1009.20	1.15%	--	--	13	--	--	--
P13A	13A	13B	1003.25	1002.90	0.81%	43	--	--	--	--	--
P13B	13B	13C	1002.90	1002.80	1.25%	8	--	--	--	--	--
P13C	13C	13D	1002.60	1002.30	0.82%	--	--	37	--	--	--
P13D	13D	13E	1002.20	1001.80	0.91%	--	--	44	--	--	--
P14A	14A	14B	992.37	991.70	2.21%	30	--	--	--	--	--
P14B	14B	14C	991.70	991.40	1.91%	16	--	--	--	--	--
P14C	14C	14D	991.25	990.75	1.60%	--	--	31	--	--	--
P14D	14D	14I	990.70	989.20	0.73%	--	--	--	206	--	--
P14E	14E	14F	990.75	990.40	1.33%	--	--	26	--	--	--
P14F	14F	14G	990.40	990.03	0.96%	--	--	38	--	--	--
P14G	14G	14H	990.03	989.85	2.40%	--	--	8	--	--	--
P14H	14H	14I	989.75	989.40	1.21%	--	--	29	--	--	--
P14I	14I	14J	989.10	988.75	0.92%	--	--	38	--	--	--
P15A	15A	15B	988.70	988.25	0.80%	--	--	56	--	--	--
P15B	15B	15C	988.25	988.00	0.81%	--	--	30	--	--	--
P15C	15C	15D	988.00	987.90	0.63%	--	--	16	--	--	--
P15D	15D	15E	987.90	987.70	0.69%	--	--	29	--	--	--
P15E	15E	15F	987.70	987.50	0.53%	--	--	37	--	--	--
P16A	16A	16C	988.10	987.90	0.62%	--	--	32	--	--	--
P16B	16B	16C	988.00	987.90	0.50%	20	--	--	--	--	--
P16C	16C	16E	987.90	987.75	0.54%	--	--	28	--	--	--
P16E	16E	16G	987.75	987.65	1.11%	--	--	9	--	--	--
P16F	16F	16G	987.75	987.65	0.50%	20	--	--	--	--	--
P16G	16G	16I	987.65	987.40	0.61%	--	--	42	--	--	--
P16I	16I	16J	987.40	987.20	0.63%	--	--	30	--	--	--
P17A	17A	17B	989.15	989.00	0.59%	--	--	25	--	--	--
P17B	17B	17C	989.00	988.80	0.67%	--	--	30	--	--	--
P17C	17C	17E	988.80	988.75	0.62%	--	--	8	--	--	--
P17D	17D	17E	988.96	988.75	0.50%	--	--	43	--	--	--
P17E	17E	17F	988.70	987.40	0.35%	--	--	--	370	--	--
P17F	17F	17G	987.40	987.00	0.36%	--	--	--	108	--	--
P18A	18A	18B	1007.80	1007.00	5.09%	16	--	--	--	--	--
P18B	18B	18C	1006.00	1005.50	0.83%	--	--	60	--	--	--
P18C	18C	18F	1005.00	998.00	3.33%	--	--	--	210	--	--
P18D	18D	18E	999.15	998.75	1.38%	29	--	--	--	--	--
P18E	18E	18F	998.25	998.00	1.14%	--	--	22	--	--	--
P18F	18F	18J	997.00	990.00	2.33%	--	--	--	300	--	--
P18G	18G	18F	999.15	998.50	1.38%	29	--	--	--	--	--
P18H	18H	18I	990.83	990.50	1.09%	--	--	29	--	--	--
P18I	18I	18J	990.40	990.35	0.48%	--	--	22	--	--	--
P18J	18J	18U	989.90	988.50	0.92%	--	--	--	152	--	--
P18K	18K	18J	990.83	990.50	1.14%	--	--	29	--	--	--
P18L	18L	18M	989.75	989.60	0.78%	30	--	--	--	--	--
P18M	18M	18N	989.50	989.30	0.52%	--	--	39	--	--	--
P18N	18N	18O	989.30	989.15	0.58%	--	--	25	--	--	--
P18O	18O	18P	989.15	988.90	0.58%	--	--	43	--	--	--
P18P	18P	18Q	988.90	988.80	1.25%	--	--	8	--	--	--
P18Q	18Q	18R	988.80	988.65	0.52%	--	--	29	--	--	--
P18R	18R	18U	988.55	988.05	0.40%	--	--	--	124	--	--
P18S	18S	18R	988.75	988.65	0.55%	--	--	44	--	--	--
P18T	18T	18S	989.00	988.75	0.42%	--	--	57	--	--	--
P18U	18U	18V	987.95	987.80	0.51%	--	--	--	30	--	--
P18W	18W	18X	1011.08	1011.00	0.30%	30	--	--	--	--	--
P19A	19A	19B	988.15	997.95	0.48%	--	--	41	--	--	--
P19B	19B	19C	997.95	997.65	0.87%	--	--	34	--	--	--
P19C	19C	19G	997.65	997.20	0.82%	--	--	55	--	--	--
P19D	19D	19E	1000.45	1000.20	0.58%	43	--	--	--	--	--
P19E	19E	19F	1000.00	999.80	2.50%	--	--	8	--	--	--
P19F	19F	19G	999.60	999.00	2.05%	--	--	29	--	--	--
P19G	19G	19M	995.60	990.60	1.19%	--	--	--	419	--	--
P19H	19H	19I	990.50	990.20	0.57%	--	--	52	--	--	--
P19I	19I	19J	990.20	989.90	0.63%	--	--	48	--	--	--
P19J	19J	19K	989.90	989.80	1.25%	--	--	8	--	--	--
P19K	19K	19M	989.80	989.60	0.59%	--	--	34	--	--	--
P19L	19L	19M	991.50	991.00	1.74%	--	--	30	--	--	--
P19M	19M	19O	989.50	988.75	0.49%	--	--	--	154	--	--
P19N	19N	19O	989.25	989.10	0.72%	20	--	--	--	--	--
P19O	19O	19S	988.65	988.25	0.51%	--	--	--	78	--	--
P19P	19P	19Q	988.78	988.60	0.55%	33	--	--	--	--	--
P19Q	19Q	19R	988.60	988.50	1.25%	--	--	8	--	--	--
P19R	19R	19S	988.50	988.30	0.47%	--	--	43	--	--	--
P19S	19S	19T	988.15	987.80	0.57%	--	--	--	88	--	--
P20A	20A	20B	1004.21	1004.10	1.29%	8	--	--	--	--	--
P20B	20B	20C	1004.00	1003.70	0.62%	--	--	48	--	--	--
P20C	20C	20D	1003.64	1003.00	1.54%	--	--	41	--	--	--
P20D	20D	20E	1002.80	1001.75	2.14%	--	--	49	--	--	--
P20E	20E	20G	1001.60	999.75	4.52%	--	--	41	--	--	--
P20F	20F	20J	999.00	991.25	3.60%	--	--	--	215	--	--
P20G	20G	20H	993.03	992.75	0.86%	32	--	--	--	--	--
P20H	20H	20I	992.25	992.00	1.36%	--	--	18	--	--	--
P20I	20I	20J	991.90	991.50	1.38%	--	--	29	--	--	--
P20J	20J	20K	991.00	989.50	1.50%	--	--	--	100	--	--
P20K	20K	20L	989.40	988.60	1.25%	--	--	--	64	--	--
P20M	20M	20N	988.00	987.65	0.39%	--	--	--	88	--	--
P20N	20N	20O	987.65	987.20	0.30%	--	--	--	162	--	--
P21A	21A	21B	998.72	998.60	0.35%	--	--	--	--	30	--
P21C	21C	21D	998.40	998.25	0.32%	47	--	--	--	--	--
P21D	21D	21E	998.25	998.15	0.31%	--	--	--	--	--	32
P22A	22A	22B	997.50	997.25	0.44%	--	57	--	--	--	--
P22B	22B	22E	996.50	994.25	0.77%	--	--	--	294	--	--
P22C	22C	22D	995.65	994.75	0.76%	--	--	118	--	--	--
P22D	22D	22E	994.75	994.50	1.04%	--	--	24	--	--	--
P22E	22E	22F	994.00	991.91	0.99%	--	--	--	212	--	--
P22F	22F	22H	991.91	990.00	1.28%	--	--	--	169	--	--
P22G	22G	22H	990.25	990.00	1.04%	--	--	24	--	--	--
P22H	22H	22K	989.75	985.00	1.79%	--	--	--	265	--	--
P22I	22I	22J	987.25	986.25	0.95%	--	--	105	--	--	--
P22J	22J	22K	986.25	986.00	1.32%	--	--	19	--	--	--
P31A	31A	31B	996.00	995.80	0.53%	38	--	--	--	--	--
P31B	31B	31C	995.80	995.70	0.54%	19	--	--	--	--	--
P31C	31C	31D	995.70	995.40	0.51%	--	--	58	--	--	--
P32A	32A	32C	1002.25	1001.60	0.62%	--	--	115	--	--	--
P32B	32B	32C	1003.25	1003.00	1.26%	--	--	20	--	--	--
P32C	32C	32G	1001.50	999.80	0.42%	--	--	--	347	--	--
P32D	32D	32E	999.80	999.50	0.80%	50	--	--	--	--	--
P32E	32E	32F	999.40	999.30	1.25%	--	--	8	--	--	--
P32F	32F	32G	999.20	999.00	0.67%	--	--	45	--	--	--
P32G	32G	32H	998.90	998.00	0.65%	--	--	--	106	--	--
P33A	33A	33B	985.50	985.15	0.57%	--	--	61	--	--	--
P33B	33B	33C	985.15	984.80	0.60%	--	--	58	--	--	--
P33C	33C	33D	984.80	984.55	0.54%	--	--	46	--	--	--
P33D	33D	33E	984.55	984.45	0.53%	--	--	19	--	--	--
P33E	33E	33F	984.45	984.10	0.89%	--	--	39	--	--	--
P33F	33F	33G	984.10	983.50	0.52%	--	--	--	76	--	--
P34A	34A	34B	982.14	981.80	0.90%	--	--	38	--	--	--
P34B	34B	34C	981.55	981.45	0.94%	--	--	10	--	--	--
P34C	34C	34D	981.45	980.00	1.73%	--	--	75	--	--	--
P35A	35A	35B	979.97	979.25	0.81%	--	--	37	--	--	--
P35B	35B	35C	979.25	979.00	1.26%	--	--	8	--	--	--
P35C	35C	35D	979.00	977.75	1.69%	--	--	59	--	--	--
TOTALS						787 *	57 *	3,298 *	5,206	30	32

NOTE: *REINFORCED CONCRETE APRON ENDWALLS AND ADJOINING TWO SECTIONS OF CONCRETE PIPE SHALL BE TIED TOGETHER AS SHOWN ON THE STANDARD DETAIL DRAWINGS AND AS LOCATED IN THE MISCELLANEOUS QUANTITIES. JOINT TIES SHALL BE INCIDENTAL ITEMS INCLUDED IN THE COST OF THE CONCRETE PIPE. PIPE LENGTHS DO NOT INCLUDE APRON ENDWALL.

3

3

STRUCTURE #	STATION	OFFSET	522.1012 AEW FOR CULVERT PIPE RC, 12-INCH EACH	522.1018 AEW FOR CULVERT PIPE RC, 18-INCH EACH	523.0524 AEW FOR CULVERT PIPE RC, HE, 24X38-INCH EACH	523.0529 AEW FOR CULVERT PIPE RC, HE, 29X45-INCH EACH	523.0534 AEW FOR CULVERT PIPE RC, HE, 34X53-INCH EACH	611.2004 MANHOLES 4-FT EACH	611.2006 MANHOLES 6-FT EACH	611.2008 MANHOLES 8-FT EACH	SPV.0060.02 MODIFIED MANHOLE 8-FT EACH	611.3230 INLETS 2X3 FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	SPV.0060.01 MOD. INL. MED. 3 GRATE EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	611.0652 INLET COVERS TYPE T EACH	611.8120.S COVER PLATES TEMPORARY EACH	INVERT ELEVATION	RIM ELEVATION	STRUCTURE DEPTH	650.4000 CONSTRCTION STAKING STORM SEWER SYSTEM EACH
1A	648+00.54	2.49 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	986.31	989.96	3.65	1
1B	648+00.55	1.73 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	986.21	990.23	4.02	1
1C	647+00	42.00 RT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	984.70	-	-	1
2A	652+19.02	29.99 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	1	990.55	992.91	2.36	1
2B	651+40.40	37.39 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	1	990.55	992.91	2.36	1
2C	651+39.15	36.14 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	1	1	990.55	992.91	2.36	1
2D	650+76.68	96.54 LT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	990.29	-	-	1
3A	653+57.42	27.09 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	990.65	993.85	3.20	1
3B	653+57.57	32.66 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	990.46	993.65	3.19	1
3C	653+57.56	50.88 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	990.14	993.37	3.23	1
3D	653+56.63	93.19 LT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	989.90	-	-	1
4A	653+83.31	8.83 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	990.74	994.44	3.70	1
4B	653+82.98	39.80 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	990.66	994.34	3.68	1
4C	653+62.27	66.55 RT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	990.50	-	-	1
5A	57+00.58	0.05 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	987.72	990.96	3.24	1
5B	57+11.61	2.05 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	987.68	990.84	3.16	1
5C	57+01.30	27.09 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	987.46	990.29	2.83	1
5D	58+13.25	68.43 RT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	987.00	-	-	1
6A	62+83.27	17.81 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	988.49	992.46	3.97	1
6B	62+82.55	1.99 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	988.44	992.78	4.34	1
6C	62+89.46	11.18 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	988.40	992.87	4.47	1
6D	62+88.58	55.81 LT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	986.70	-	-	1
21A	1533+00.00	41.00 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	1004.23	1007.71	3.48	1
21B	1533+00.00	9.00 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	1004.02	1007.81	3.79	1
21C	1533+00.00	9.00 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	1003.88	1007.81	3.93	1
21D	1533+00.00	41.00 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	1003.67	1007.73	4.06	1
21E	1532+50	76.75 RT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1003.00	-	-	1
22A	1535+50.00	41.00 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	998.44	1001.94	3.50	1
22B	1535+50.00	10.00 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	998.15	1002.04	3.89	1
22C	1535+50.00	1.91 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	998.01	1001.9	3.89	1
22D	1535+50.00	41.00 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	997.83	1001.96	4.13	1
22E	1535+50.00	61.16 RT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	997.45	-	-	1
22K	86+50.77	24.95 LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	985.00	991.52	6.52	1
22L	82+56.45	41.92 LT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	---	982.55	988.30	5.75	1
22M	82+33.21	71.34 LT	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	982.50	-	-	1
23A	1536+50.00	71.58 RT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	991.11	993.33	2.22	1
23B	1536+50.00	99.60 RT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	990.84	-	-	1
24A	1537+14.00	41.00 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	994.40	998.15	3.75	1
24B	1537+60.00	10.00 LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	993.00	997.19	4.19	1
24C	1538+12.49	2.12 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	991.65	995.85	4.20	1
24D	1538+46.63	2.24 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	990.72	994.99	4.27	1
24E	1540+00.33	1.76 LT	---	---	---	---	---	1	---	---	---	---	---	---	---	1	---	---	---	---	---	986.80	990.87	4.07	1
24F	1541+04.24	14.56 LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	982.08	989.06	6.98	1
24G	1537+35.00	41.00 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	994.00	997.69	3.69	1
24H	1537+42.00	4.00 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	993.31	997.35	4.04	1
25A	1540+00.00	41.00 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	987.09	990.93	3.84	1
25B	1539+99.88	11.03 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	987.03	990.87	3.84	1
25C	1540+00.03	42.17 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	---	987.32	990.81	3.49	1

ROUNDABOUT STORM SEWER

- CONTINUED -

ROUNDABOUT STORM SEWER

- CONTINUED -

STRUCTURE #	STATION	OFFSET	522.1012 AEW FOR CULVERT PIPE RC, 12-INCH EACH	522.1018 AEW FOR CULVERT PIPE RC, 18-INCH EACH	523.0524 AEW FOR CULVERT PIPE RC, HE, 24X38-INCH EACH	523.0529 AEW FOR CULVERT PIPE RC, HE, 29X45-INCH EACH	523.0534 AEW FOR CULVERT PIPE RC, HE, 34X53-INCH EACH	611.2004 MANHOLES 4-FT EACH	611.2006 MANHOLES 6-FT EACH	611.2008 MANHOLES 8-FT EACH	SPV.0060.02 MODIFIED MANHOLE 8-FT EACH	611.3230 INLETS 2X3 FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	SPV.0060.01 MOD. INL. MED. 3 GRATE EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0627 INLET COVERS TYPE HM EACH	611.0642 INLET COVERS TYPE MS EACH	611.0652 INLET COVERS TYPE T EACH	611.8120.S COVER PLATES TEMPORARY EACH	INVERT ELEVATION	RIM ELEVATION	STRUCTURE DEPTH	650.4000 CONSTRCTION STAKING STORM SEWER SYSTEM EACH
26A	83+83.66	43.42 RT	---	---	---	---	---	---	---	---	---	---	---	1	---	---	---	3	---	---	982.95	-	-	1
26B	81+82.19	52.00 RT	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	982.30	986.40	4.10	1
26C	80+73.53	93.04 RT	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	---	---	982.17	989.60	7.43	1
26D	80+36.34	111.27 RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	982.13	989.00	6.87	1
26E	1541+08.76	4.78 RT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	982.10	988.91	6.81	1
26F	1541+02.60	45.50 LT	---	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	982.04	988.96	6.92	1
26G	1541+00	93.46 LT	---	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	982.00	-	-	1
26L	80+84.99	102.72 RT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	983.23	985.15	1.92	1
26M	81+82.13	38.05 RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	982.33	987.06	4.73	1
26N	81+80.17	6.19 RT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	982.38	987.62	5.24	1
26P	81+80.12	4.98 LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	982.40	987.72	5.32	1
26R	81+80.11	36.79 LT	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	982.45	987.16	4.71	1
26S	81+80.00	74.35 LT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	982.50	-	-	1
30A	75+37.79	1.16 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	982.18	985.74	3.56	1
31A	75+07.32	61.60 RT	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	982.95	985.50	2.55	1
31B	75+07.28	10.31 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	983.04	986.17	3.13	1
31C	75+07.35	42.33 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	982.95	985.6	2.65	1
32A	78+09.06	33.26 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	983.25	987.12	3.87	1
32B	78+10.22	13.30 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	983.03	987.44	4.41	1
32C	78+11.00	8.02 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	982.77	987.92	5.15	1
32D	78+10.94	44.14 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	982.40	987.28	4.88	1
32E	78+11.00	74.15 RT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	982.00	-	-	1
32F	76+99.82	71.56 RT	---	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	982.00	-	-	1
32G	76+50.00	51.32 RT	---	---	---	---	---	---	1	---	---	---	---	---	1	---	---	---	---	---	981.75	987.30	5.55	1
33A	1542+39.15	35.81 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	983.59	987.95	4.36	1
33B	1542+54.79	11.60 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	982.90	987.31	4.41	1
33C	1543+54.67	1.64 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	981.75	986.88	5.13	1
33D	1543+56.10	29.72 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	981.55	986.88	5.33	1
33E	1543+87.42	70.97 RT	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	981.00	-	-	1
33F	1542+27.75	51.60 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	1	---	983.56	987.93	4.37	1
33G	1543+63.69	39.40 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	982.49	986.73	4.24	1
33H	1543+65.58	3.04 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	1	---	---	---	---	981.82	986.90	5.08	1
34A	1547+70.00	52.00 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	986.27	990.06	3.79	1
34B	1547+70.00	8.00 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	986.15	990.38	4.23	1
34C	1547+70.00	0.00 CL	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	986.04	990.69	4.65	1
34D	1546+00.02	10.22 RT	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---	---	---	---	984.76	988.87	4.11	1
34E	1545+00.00	0.00 CL	---	---	---	---	---	1	---	---	---	---	---	---	1	---	---	---	---	---	982.74	988.71	5.97	1
34F	1544+56.25	74.63 RT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	981.00	-	-	1
34G	1547+70.00	9.00 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	986.44	990.38	3.94	1
34H	1546+00.00	40.00 RT	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---	---	---	---	984.88	988.77	3.89	1
34J	1546+00.00	8.00 RT	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---	---	---	---	984.79	988.85	4.06	1
35A	1549+50.00	9.00 RT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	990.00	993.10	3.10	1
35B	1549+50.00	65.36 RT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	989.50	-	-	1
36A	1549+50.00	7.08 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	989.22	993.10	3.88	1
36B	1549+50.00	52.38 LT	---	---	---	---	---	---	---	---	---	1	---	---	---	---	1	---	---	---	988.70	991.79	3.09	1
36C	1549+50.00	86.83 LT	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	988.50	-	-	1
TOTAL			**13** *	**1** *	**2**	**1**	**1**	**3** *	**8**	**5**	**1**	**55** *	**3**	**1**	**8** *	**48** *	**9** *	**7** *	**6**	**3** *				**94** *

Notes:
Stations, offsets, and elevations are to flowline of inlets.
Stations, offsets, and elevations are to end of apron endwall.
Stations, offsets, and elevations are to center of manhole.
2'x3' holes are required on manholes with H castings.
Structure 26A is paid as a type 10 inlet. See construction details for dimensions.
Structure 26B is paid as a manhole, 8 ft diameter. See construction details for dimensions.

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

STRU NO.	STA.	OFFSET	*** LOCATION	GRATE ELEV.	F/L	STRUCTURES: INLETS 4-FT DIAMETER 611.3004 EACH	INLETS 2x3-FT 611.3230 EACH	INLETS MEDIAN 2 GRATE 611.3902 EACH	MANHOLES 4-FT DIAMETER 611.2004 EACH	INLET COVERS: TYPE J 611.0530 EACH	TYPE H 611.0624 EACH	TYPE HM 611.0627 EACH	TYPE MS 611.0642 EACH	TYPE Z 611.0666 EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE: 12-INCH 522.1012 EACH	15-INCH 522.1015 EACH	18-INCH 522.1018 EACH	24-INCH 522.1024 EACH	27-INCH 522.1027 EACH	30-INCH 522.1030 EACH	CONSTRUCTION STAKING STORM SEWER SYSTEM 650.4000 EACH	JOINT TIES FOR CONCRETE PIPE**
7A	1462+55	41' RT	STH 83	989.82	985.82	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
7B	1462+35	41' RT	STH 83	989.81	985.31	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
7C	1462+35	10' RT	STH 83	989.91	984.95	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
7D	1462+35	10' LT	STH 83	989.91	984.75	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
7E	1462+55	41' LT	STH 83	989.82	985.32	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
7F	1462+35	41' LT	STH 83	989.81	984.40	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
7G	1462+60	84' LT	STH 83	984.00	984.00	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	8
7H	1459+00	10' RT	STH 83	991.67	987.17	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
7J	1459+00	41' RT	STH 83	991.63	987.00	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
8A	1467+00	50' RT	STH 83	997.50	993.50	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
8B	1466+45	41' RT	STH 83	996.30	991.80	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
8C	1466+45	10' RT	STH 83	997.36	991.60	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
8D	1466+45	10' LT	STH 83	997.36	991.40	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
8E	1466+45	41' LT	STH 83	998.41	991.10	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
8F	1464+35	41' RT	STH 83	991.57	987.07	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
8G	1464+35	10' RT	STH 83	991.67	986.75	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
8H	1464+35	10' LT	STH 83	991.67	986.50	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
8I	1464+35	39' LT	STH 83	991.60	986.10	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
8J	1464+10	78' LT	STH 83	985.75	985.75	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	8
9A	1469+00	10' LT	STH 83	1005.46	1000.96	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
9B	1468+83	41' LT	STH 83	1005.97	1000.10	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
9C	1468+72	76.5' LT	STH 83	999.75	999.75	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	8
10A	1469+00	10' RT	STH 83	1005.46	1000.96	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
10B	1468+80	41' RT	STH 83	1003.77	999.50	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--
10C	1468+64	59' RT	STH 83	999.25	999.25	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	8
11A	1474+90	10' RT	STH 83	1019.19	1015.99	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
11B	1474+90	10' LT	STH 83	1019.56	1015.00	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
11C	1474+90	41' LT	STH 83	1019.46	1014.60	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
11D	1472+00	4' LT	STH 83	1015.02	1010.52	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
11E	1472+00	10' LT	STH 83	1014.69	1009.75	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
11F	1470+50	41' LT	STH 83	1011.28	1006.40	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
11G	1470+25	83' LT	STH 83	1004.30	1004.30	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	8
12A	1472+00	41' RT	STH 83	1013.84	1009.35	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
12B	1472+00	53' RT	STH 83	1009.20	1009.20	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1	8
13A	1481+92	41' RT	STH 83	1007.25	1003.25	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
13B	1481+92	4' LT	STH 83	1007.21	1002.90	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
13C	1481+92	10' LT	STH 83	1008.19	1002.60	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
13D	1481+71	42.65' LT	STH 83	1008.84	1002.20	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
13E	1481+87	82.5' LT	STH 83	1001.80	1001.80	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	8
14A	1485+87	37.5' LT	STH 83	996.87	992.37	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
14B	1485+90	5.6' LT	STH 83	996.20	991.70	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
14C	1485+90.5	7.9' RT	STH 83	995.75	991.25	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
14D	1485-92	41' RT	STH 83	995.11	990.70	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
14E	1488+00	61' LT	STH 83	993.60	990.75	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
14F	1488+00	36' LT	STH 83	994.90	990.40	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
14G	1488+00	4' RT	STH 83	994.53	990.03	1	--	--	--	--	1	--	--	1	--	--	--	--	--	--	1	--
14H	1488+00	10' RT	STH 83	994.64	989.75	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
14I	1488+00	41' RT	STH 83	994.34	989.10	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
14J	1488+00	78' RT	STH 83	988.75	988.75	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	8
15A	1491+50	63' LT	STH 83	991.40	988.70	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
15B	1491+00	36.6' LT	STH 83	992.64	988.25	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
15C	1491+00	4.3' LT	STH 83	993.25	988.00	1	--	--	--	--	1	--	--	1	--	--	--	--	--	--	1	--
15D	1491+00	10' RT	STH 83	993.19	987.90	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
15E	1491+00	41' RT	STH 83	993.73	987.70	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
15F	1491+00	77' RT	STH 83	987.50	987.50	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	8

- CONTINUED -

3

						STRUCTURES				INLET COVERS					APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE						CONSTRUCTION STAKING	
						INLETS	INLETS	INLETS	MANHOLES												STORM SEWER	JOINT
STRU			***	GRATE		4-FT DIAMETER	2x3-FT	MEDIAN 2 GRATE	4-FT DIAMETER	TYPE J	TYPE H	TYPE HM	TYPE MS	TYPE Z	12-INCH	15-INCH	18-INCH	24-INCH	27-INCH	30-INCH	SYSTEM	TIES FOR
NO.	STA.	OFFSET	LOCATION	ELEV.	F/L	611.3004	611.3230	611.3902	611.2004	611.0530	611.0624	611.0627	611.0642	611.0666	522.1012	522.1015	522.1018	522.1024	522.1027	522.1030	650.4000	CONCRETE
						EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	PIPE**
16A	1493+95	70' LT	STH 83	989.60	988.10	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
16B	1493+75	39' LT	STH 83	991.41	988.00	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
16C	1493+95	39' LT	STH 83	991.40	987.90	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
16E	1493+95	9' LT	STH 83	991.90	987.75	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
16F	1493+75	2' LT	STH 83	991.66	987.75	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
16G	1493+95	2' LT	STH 83	991.64	987.65	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
16I	1493+95	41' RT	STH 83	992.42	987.40	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
16J	1493+95	72' RT	STH 83	987.20	987.20	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	8
17A	1499+29	64.5' LT	STH 83	991.00	989.15	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
17B	1499+29	40' LT	STH 83	992.70	989.00	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
17C	1499+40	10' LT	STH 83	992.81	988.80	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
17D	1499+40	4' LT	STH 83	992.71	988.96	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
17E	1499+40	4' LT	STH 83	992.52	988.70	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
17F	1495+70	0' LT	STH 83	993.00	987.40	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	1	--
17G	1494+93	78' RT	STH 83	984.08	984.08	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	8
18A	1508+46	68.5' LT	STH 83	1014.00	1007.80	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	1	--
18B	1508+60	64' LT	STH 83	1014.00	1006.00	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	1	--
18C	1508+60	3.4' LT	STH 83	1011.75	1005.00	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	1	--
18D	1506+50	41' LT	STH 83	1003.65	999.15	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18E	1506+50	10' LT	STH 83	1003.75	998.25	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18F	1506+50	10' RT	STH 83	1003.75	997.00	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18G	1506+50	41' RT	STH 83	1003.65	999.15	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18H	1503+50	41' LT	STH 83	995.33	990.83	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18I	1503+50	8.7' LT	STH 83	995.58	990.40	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18J	1503+50	10' RT	STH 83	995.43	989.90	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18K	1503+50	41' RT	STH 83	995.33	990.83	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18L	49+65	16.9' RT	WELSH ROAD	992.76	989.75	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18M	49+65	17' LT	WELSH ROAD	992.76	989.50	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18N	1500+83	64.5' LT	STH 83	993.30	989.30	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
18O	1500+77	41' LT	STH 83	993.43	989.15	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18P	1500+75	4' RT	STH 83	993.26	988.90	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18Q	1500+75	10' RT	STH 83	993.53	988.80	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18R	1500+75	41' RT	STH 83	993.43	988.55	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	2	--
18S	1500+33.5	54.75' RT	STH 83	992.96	988.75	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18T	1499+74.5	69' RT	STH 83	989.00	989.00	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	--
18U	1502+00	41' RT	STH 83	994.14	987.95	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
18V	1502+15	65' RT	STH 83	987.80	987.80	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	8
19A	51+15	19.75' LT	CRIGLAS	1001.25	998.15	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
19B	51+19	21.5' RT	CRIGLAS	1001.50	997.95	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
19C	51+53.5	22.4' RT	CRIGLAS	1002.39	997.65	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19D	1515+20	41' RT	STH 83	1004.70	1000.45	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19E	1515+20	4' LT	STH 83	1004.52	1000.00	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19F	1515+20	10' LT	STH 83	1004.17	999.60	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19G	1515+24	41' LT	STH 83	1003.94	995.60	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19H	1519+46	72' RT	STH 83	993.25	991.50	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
19I	1519+05	41" RT	STH 83	996.49	990.20	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19J	1519+26	4' LT	STH 83	995.94	989.90	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19K	1519+26	9.75' LT	STH 83	996.13	989.80	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19L	1519+30	66' LT	STH 83	994.80	991.50	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
19M	1519+43	41' LT	STH 83	995.77	989.50	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19N	1520+92	61' LT	STH 83	--	989.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19O	1520+97	41' LT	STH 83	993.51	988.85	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19P	1521+60	41' RT	STH 83	992.78	988.78	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19Q	1521+75	10' RT	STH 83	992.82	988.60	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19R	1521+75	4' RT	STH 83	992.78	988.50	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19S	1521+75	41' LT	STH 83	992.96	988.30	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19T	1522+25	75' LT	STH 83	987.80	987.80	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	8
19U	1519+60	61.3' LT	STH 83	995.00	992.50	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
19V	1520+02	61.5' LT	STH 83	994.95	992.40	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
20A	1528+52	9' RT	STH 83	1008.71	1004.21	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
20B	1528+52	3' RT	STH 83	1008.52	1004.00	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
20C	1528+28	41' LT	STH 83	1008.14	1003.64	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
20D	49+23	19.8' LT	CYMRIC	1008.00	1002.80	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
20E	49+22	29' RT	CYMRIC	1006.30	1001.60	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
20F	1527+25	41' LT	STH 83	1005.10	999.00	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	2	--
20G	1525+10	41' RT	STH 83	997.53	993.03	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	3	--
20H	1525+10	6.4' RT	STH 83	997.56	992.25	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	4	--
20I	1525+10	10' LT	STH 83	997.77	991.90	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	5	--
20J	1525+10	41' LT	STH 83	997.67	991.00	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	6	--
20K	1524+10	41' LT	STH 83	995.08	989.40	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	8

STRU NO.	STA.	OFFSET	*** LOCATION	GRATE ELEV.	F/L	STRUCTURES: INLETS 4-FT DIAMETER 611.3004 EACH	INLETS 2x3-FT 611.3230 EACH	INLETS MEDIAN 2 GRATE 611.3902 EACH	MANHOLES 4-FT DIAMETER 611.2004 EACH	INLET COVERS: TYPE J 611.0530 EACH	TYPE H 611.0624 EACH	TYPE HM 611.0627 EACH	TYPE MS 611.0642 EACH	TYPE Z 611.0666 EACH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE: 12-INCH 522.1012 EACH	15-INCH 522.1015 EACH	18-INCH 522.1018 EACH	24-INCH 522.1024 EACH	27-INCH 522.1027 EACH	30-INCH 522.1030 EACH	CONSTRUCTION STAKING STORM SEWER SYSTEM 650.4000 EACH	JOINT TIES FOR CONCRETE PIPE**
20L	1523+54	75' LT	STH 83	988.60	988.60	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--
20M	1522+67	72' LT	STH 83	988.00	988.00	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	2	--
20N	1522+23	7' RT	STH 83	993.25	987.65	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	3	--
20O	1522+25	170' RT	STH 83	987.20	987.20	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	8
21A	96+76	40' LT	USH 18	1002.93	998.72	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	1	--
21B	96+66	69' LT	USH 18	998.60	998.60	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	--
21C	19+17	29.3' LT	OAK CREST	1000.65	998.40	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
21D	19+61	44.3' LT	OAK CREST	1002.11	998.25	--	--	--	1	1	--	--	--	--	--	--	--	--	--	--	1	--
21E	96+42	44.5' RT	USH 18	998.15	998.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--
22A	96+23	75' LT	USH 18	997.50	997.50	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1	--
22B	95+90	29.5' LT	USH 18	1001.68	996.50	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
22C	94+14	47' LT	USH 18	998.50	995.65	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
22D	92+96	47' LT	USH 18	997.25	994.75	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
22E	92+96	24' LT	USH 18	999.27	994.00	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
22F	90+84	24' LT	USH 18	997.18	991.91	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
22G	89+15	47' LT	USH 18	993.00	990.25	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
22H	89+15	24' LT	USH 18	995.03	988.95	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
22I	87+55	45' LT	USH 18	991.50	987.25	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
22J	86+50	45' LT		990.50	986.25	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
22K	86+50	27' LT		992.85	985.00	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--
31A	1552+00	49' LT	STH 83	999.70	996.00	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
31B	1552+00	9' LT	STH 83	1000.20	995.80	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
31C	1552+00	7.6' RT	STH 83	1000.05	994.70	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
31D	1552+00	68' RT	STH 83	995.40	995.40	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	8
32A	1556+15	56.5' RT	STH 83	1006.71	1002.21	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
32B	1556+16	78' LT	STH 83	1006.25	1002.80	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
32C	1556+15	58.4' LT	STH 83	1007.05	1001.50	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
32D	1559+53	59' RT	STH 83	1003.76	999.50	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
32E	1559+53	3' LT	STH 83	1005.10	999.10	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
32F	1559+53	9' LT	STH 83	1005.34	999.00	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
32G	1559+58	54.3' LT	STH 83	1006.44	998.70	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
32H	1560+57	91' LT	STH 83	998.00	998.00	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	8
33A	1565+31	64.4' RT	CL4	987.70	985.50	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
33B	1564+69	64.5' RT	CL4	988.20	985.15	--	--	1	--	--	--	--	2	--	--	--	--	--	--	--	1	--
33C	1564+24	30' RT	CL4	992.33	984.80	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
33D	1564+30	17' LT	CL4	992.62	984.55	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
33E	1564+30	34.75' LT	CL4	992.93	984.45	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
33F	1564+43	76' LT	CL4	993.17	984.10	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
33G	1564+93	119.5' LT	CL4	983.50	983.50	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	8
34A	1567+75	23' RT	CL4	986.64	982.14	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
34B	1567+75	16.75' LT	CL4	986.80	981.55	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
34C	1567+75	25.4' LT	CL4	986.79	981.45	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
34D	1567+76	191' LT	CL4	980.00	980.00	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	8
35A	1570+88	26.25' RT	CL4	983.47	979.97	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
35B	1570+88	12.7' LT	CL4	983.94	979.25	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
35C	1570+88	18.5' LT	CL4	983.94	979.00	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
35D	1570+88	79' LT	CL4	977.65	977.65	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	8
TOTALS						36	81 *	20	6	7 *	99 *	20 *	40 *	2	1 *	1	10 *	11 *	1	1	189 *	160

NOTE: *ADDITIONAL QUANTITIES SHOWN ELSEWHERE IN THE PLAN
**REINFORCED CONCRETE APRON ENDWALLS AND ADJOINING TWO SECTIONS OF CONCRETE PIPE

SHALL BE TIED TOGETHER AS SHOWN ON THE STANDARD DETAIL DRAWINGS AND AS LOCATED IN THE MISCELLANEOUS QUANTITIES.
JOINT TIES SHALL BE INCIDENTAL ITEMS INCLUDED IN THE COST OF THE CONCRETE PIPE.
*** LOCATION IS FROM REFERENCE LINE TO FACE OF CURB
*+DEPTH =FLANGE ELEVATION - FLOWLINE

ROADWAY STORM SEWER STRUCTURE

STATION TO	STATION	LOCATION	PIPE UNDERDRAIN WRAPPED 6-INCH SPECIAL SPV.0090.09 LF	PIPE UNDERDRAIN UNPERFORATED 6-INCH SPECIAL SPV.0090.10 LF	REMARKS
1536+39	1541+10	STH 83 RT	485	--	CONNECT TO INLET
1539+00	1541+10	STH 83 LT	205	--	CONNECT TO INLET
74+90	75+08	USH 18 RT	20	--	CONNECT TO TEMPORARY COVER PLATE
78+09	75+08	USH 18 RT	305	--	CONNECT TO TEMPORARY COVER PLATE
79+40		USH 18 LT	--	80	DRAIN TO DITCH
1541+17	78+11	USH 18 RT & STH 83 LT	215	--	CONNECT TO TEMPORARY COVER PLATE
78+25	79+35	USH 18 LT	125	--	CONNECT TO PIPE UNDERDRAIN UNPEROFRATED OUTFALL
1543+48	79+35	USH 18 LT & STH 83 LT	130	--	CONNECT TO PIPE UNDERDRAIN UNPEROFRATED OUTFALL
1541+08	81+88	STH 83 RT & USH 18 RT	205	--	CONNECT TO TEMPORARY COVER PLATE
81+44	1543+55	USH 18 LT & STH 83 RT	210	--	CONNECT TO TEMPORARY COVER PLATE
1544+85	1543+55	STH 83 RT	130	--	CONNECT TO TEMPORARY COVER PLATE
1543+65	1546+00	STH 83 LT	250	--	CONNECT TO PIPE UNDERDRAIN UNPEROFRATED OUTFALL
1546+00		STH 83 RT	--	90	
1549+00	1546+00	STH 83 LT	305	--	CONNECT TO PIPE UNDERDRAIN UNPEROFRATED OUTFALL
1549+50	1544+95	STH 83 RT	460	--	CONNECT TO TEMPORARY COVER PLATE
		TOTAL 0010	3045	170	

ADJUSTING INLET COVERS
611.8115

STATION	LOCATION	EACH
75+34	USH 18 LT	1
	TOTAL 0010	1

RECONSTRUCTING INLETS
611.0430

STATION	LOCATION	EACH
75+07	USH 18 RT	1
	TOTAL 0010	1

STATION TO	STATION	LOCATION	TOPSOIL 625.0100 SY	SOD LAWN 631.1000 SY	SOD WATER 631.0300 MGAL
1459+00 -	1474+25	LT	338	338	8
1474+25 -	1482+50	LT	339	339	8
1482+50 -	1500+50	LT	118	118	3
1510+75 -	1516+00	LT	926	926	21
1516+00 -	1520+00	LT	511	511	12
1520+00 -	1527+25	LT	629	629	14
1527+25 -	1532+00	RT	192	192	5
1510+75 -	1516+00	RT	484	484	11
1516+00 -	1520+00	RT	900	900	20
1520+00 -	1527+25	RT	356	356	8
1527+25 -	1532+00	RT	36	36	1
BENTON CT -		LT/RT	142	142	4
W. CRIGLAS RD -		LT/RT	170	170	4
E. CRIGLAS RD -		LT/RT	57	57	2
MAIN ST -		LT/RT	224	224	5
CYMRIC CT -		LT/RT	137	137	4
USH 18 -		LT	1532	1532	34
		TOTAL 0010	7091	7091	164

PIPE UNDERDRAIN
6-INCH
612.0106

STATION TO	STATION	LOCATION	LF	REMARKS
1459+00 -	1462+00	STH 83	200	CONNECT TO INLET AT LOW POINTS
1486+00 -	1506+00	STH 83	200	CONNECT TO INLET AT LOW POINTS
1517+00 -	1522+00	STH 83	200	CONNECT TO INLET AT LOW POINTS
53+75 -	58+50	CTH E/DE	400	CONNECT TO INLET AT LOW POINTS
81+00 -	85+00	USH 18	400	CONNECT TO INLET AT LOW POINTS
		TOTAL 0010	1400	

STATION TO	STATION	LOCATION	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD 614.0150 EACH	MGS GUARDRAIL 3 614.2300 LF	MGS THRIE BEAM TRANSITION 614.2500 LF	MGS GUARDRAIL TERMINAL EAT 614.2610 EACH	MGS GUARDRAIL TERMINAL TYPE 2 614.2620 EACH
1468+50 -	1472+00	RT	--	400	--	1	1
1481+75 -	1486+00	RT	--	375	--	1	1
1501+50 -	1502+10	RT	--	13	6	1	--
1532+35 -	1533+50	LT	2	--	72	2	--
1530+15 -	1531+00	RT	--	--	39	1	--
		TOTAL 0010	2	788	117	6	2

CONCRETE CORRUGATED MEDIAN
620.0100

STATION	TO	STATION	LOCATION	SF
1537+00	-	1538+02	STH 83 LT	790
1571+40	-	1572+26	STH 83 MEDIAN	500
			TOTAL 0010	1290

SECTION CORNER MONUMENTS SPECIAL
SPV.0060.19

STATION	LOCATION	EACH	REMARKS
1482+40.43	18.90' RT	1	SEC6044
1508+81.13	5.78' LT	1	SEC6031
1535+29.20	5.11' RT	1	SEC6018
	TOTAL 0010	3	

MOBILIZATIONS EROSION CONTROL
628.1905

LOCATION	EACH	REMARKS
STH 83	1	STAGE 1
STH 83	3	STAGE 2
STH 83	3	STAGE 3
STH 83	1	STAGE 4
TOTAL 0010	8	

MOBILIZATIONS EMERGENCY EROSION CONTROL
628.1910

LOCATION	EACH	REMARKS
STH 83	1	STAGE 1
STH 83	3	STAGE 2
STH 83	3	STAGE 3
STH 83	1	STAGE 4
TOTAL 0010	8	

	STATION	TO	STATION	LOCATION	EROSION BALES 628.1104 EACH	SILT FENCE 628.1504 LF	HEAVY DUTY SILT FENCE SPV.0090.02 LF	SILT FENCE MAINTENANCE 628.1520 LF	INLET PROTECTION TYPE A 628.7005 EACH	INLET PROTECTION TYPE B 628.7010 EACH	INLET PROTECTION TYPE C 628.7015 EACH	INLET PROTECTION TYPE D 628.7020 EACH	DITCH CHECKS 628.7504 LF	CULVERT PIPE CHECKS 628.7555 EACH
STAGE 1														
STH 83	615+00	--	646+00	LT	--	--	--	--	--	--	--	--	10	2
STH 83	646+00	--	1459+00	LT/RT	--	218	--	--	--	--	3	--	56	1
STH 83	1510+00	--	1532+00	LT	--	400	--	--	5	--	12	2	--	--
STH 83	1531+00	--	1546+00	LT/RT	6	--	--	--	--	--	--	--	--	--
STH 83	1546+00	--	1551+00	LT/RT	--	--	--	--	--	--	--	--	--	--
STAGE 2														
STH 83	615+00	--	646+00	RT	--	--	--	--	--	--	--	--	32	6
STH 83 & CTH E,	646+00	--	1459+00	LT/RT	--	783	--	--	--	--	7	--	48	3
STH 83	1459+00	--	1474+25	LT	--	830	--	--	--	--	5	3	16	--
STH 83	1474+25	--	1482+50	LT	--	525	--	--	--	--	4	--	--	1
STH 83	1482+50	--	1488+00	LT	--	--	--	--	1	--	4	--	8	--
STH 83	1486+50	--	1500+50	RT	--	--	--	--	1	--	8	4	16	1
STH 83	1500+50	--	1510+75	RT	--	850	--	--	--	--	9	--	--	--
STH 83	1510+75	--	1531+50	RT	--	800	--	--	1	--	7	2	--	1
STH 83	1531+00	--	1546+00	LT/RT	--	386	--	--	3	--	11	--	12	10
STH 83	1546+00	--	1551+00	LT/RT	--	228	--	--	--	--	2	--	2	3
STH 83	1551+00	--	1555+00	RT	--	400	--	--	--	--	1	--	--	--
STH 83	1555+00	--	1565+00	RT	--	--	--	--	1	--	4	--	8	--
STH 83	1565+00	--	1582+00	RT	--	150	--	--	2	--	4	--	48	2
USH 18	82+50	--	87+00	LT	--	--	--	--	2	--	1	--	--	--
USH 18	87+00	--	98+00	LT	--	--	--	--	4	--	3	--	8	1
OAK CREST DR	--	--	--	NE QUAD	--	50	--	--	--	--	--	--	--	--
STAGE 3														
STH 83	619+50	--	646+00	LT	--	--	--	--	--	--	--	--	40	4
STH 83 & CTH E,	646+00	--	1459+00	LT/RT	--	116	--	--	--	--	8	--	3	3
STH 83	1459+00	--	1476+50	RT	--	900	--	--	1	--	2	3	8	--
STH 83	1476+50	--	1486+50	RT	--	450	--	--	--	--	4	--	8	--
STH 83	1488+00	--	1500+50	LT	--	--	--	--	3	--	5	4	32	1
STH 83	1500+50	--	1510+75	LT	--	--	--	--	1	--	6	--	--	--
STH 83	1531+00	--	1546+00	LT/RT	--	503	--	--	--	3	15	--	5	--
STH 83	1546+00	--	1551+00	LT/RT	--	--	--	--	--	--	3	--	1	1
STH 83	1551+00	--	1555+50	LT	--	250	--	--	--	--	2	--	--	--
STH 83	1555+50	--	1560+00	LT	--	--	--	--	1	--	2	--	--	--
STH 83	1560+00	--	1585+00	LT	--	--	2600	--	--	--	4	--	--	--
BOYS SCHOOL RD	--	--	--	LT/RT	--	--	--	--	--	--	--	--	16	--
USH 18	87+00	--	95+00	RT	--	--	--	--	--	--	--	--	--	--
OAK CREST DR	--	--	--	SE QUAD	--	75	--	--	--	--	1	--	24	1
STAGE 4														
STH 83 & CTH E,	646+00	--	1459+00	LT/RT	--	--	--	--	--	1	2	--	--	--
STH 83	1531+00	--	1546+00	LT/RT	--	--	--	--	1	--	13	--	--	--
STH 83	1551+00	--	1553+35	MEDIAN	--	--	--	--	--	--	1	--	--	--
UNDISTRIBUTED					100	2000	200	2500	5	10	20	4	100	10
				TOTAL 0010	106	9914	2800	2500	32	14	173	22	501	51

3

LOCATION	STATION	TO	STATION	LT/RT	SALVAGED TOPSOIL 625.0500 SY	MULCHING 627.0200 SY	FERTILIZER TYPE B 629.0210 CWT	EROSION MAT CLASS I TYPE A 628.2002 SY	EROSION MAT CLASS I TYPE B 628.2004 SY	EROSION MAT URBAN CLASS I TYPE A 628.2006 SY	EROSION MAT CLASS II TYPE C 628.2027 SY	SEEDING MIXTURE NO. 20 630.0120 LBS	SEEDING MIXTURE NO. 30 630.0130 LBS	SEEDING MIXTURE NO. 40 630.0140 LBS	SEEDING MIXTURE NO. 60 630.0160 LBS	SEEDING MIXTURE NO. 70A 630.0171 LBS	SEEDING MIXTURE NO. 75 630.0175 LBS	SEEDING TEMPORARY 630.0200 LBS
STAGE 1																		
STH 83	646+00	--	1459+00	LT/RT	--	4536	--	--	--	--	--	--	--	--	--	--	--	123
STH 83	1531+00	--	1546+00	LT/RT	--	1691	--	--	--	--	--	--	--	--	--	--	--	46
STH 83	1546+00	--	1551+00	LT/RT	--	153	--	--	--	--	--	--	--	--	--	--	--	5
STH 83	1510+75	--	1516+00	LT	1,112	--	1	--	--	71	--	--	--	2	--	--	--	--
STH 83	1516+00	--	1520+00	LT	587	--	1	--	--	--	--	--	--	--	--	--	--	--
STH 83	1520+00	--	1527+25	LT	3,495	--	3	--	1,062	428	1,111	--	20	8	11	--	6	--
STH 83	1527+25	--	1532+00	LT	740	--	1	--	400	--	--	--	8	--	--	--	--	--
BENTON CT	--	--	--	LT/RT	118	--	1	--	--	--	--	--	--	--	--	--	--	--
W. CRIGLAS RD	--	--	--	LT/RT	221	--	1	--	--	--	--	--	--	--	--	--	--	--
CYMRIC CT	--	--	--	LT/RT	156	--	1	--	--	--	--	--	--	--	--	--	--	--
STAGE 2																		
STH 83	615+00	--	646+00	LT	5,778	4,869	4	--	2,588	376	--	15	47	7	1	1	--	--
STH 83 & CTH E/CTH DE	646+00		1459+00	LT/RT	3,375	2,376	3	999	--	--	--	--	61	--	--	--	--	--
STH 83	1459+00	--	1474+25	LT	5,867	--	4	--	3,700	655	1,111	--	67	12	11	--	5	--
STH 83	1474+25	--	1482+50	LT	1,692	--	2	--	--	1,146	--	--	--	21	--	--	--	--
STH 83	1486+50	--	1500+50	RT	8,064	--	6	--	2,400	1,355	3,333	--	44	25	30	--	12	--
STH 83	1500+50	--	1510+75	RT	1,629	--	2	--	--	1,362	--	--	--	25	--	--	--	--
STH 83	1531+00	--	1546+00	LT/RT	9,700	445	7	9,255	--	--	--	--	175	--	--	--	--	--
STH 83	1546+00	--	1551+00	LT/RT	2,663	2,495	2	168	--	--	--	--	48	--	--	--	--	--
STH 83	1551+00	--	1555+00	RT	1,295	858	1	--	--	160	--	3	--	3	--	--	--	--
STH 83	1555+00	--	1565+00	RT	3,375	--	3	--	3,167	7	--	--	57	1	--	--	--	--
STH 83	1565+00	--	1575+00	RT	1,223	--	1	--	2,866	--	--	--	52	--	--	--	--	--
LONDON DR	--	--	--	LT/RT	153	--	1	--	--	--	--	--	--	--	--	--	--	--
HARVEST VIEW DR	--	--	--	LT/RT	223	--	1	--	--	--	--	--	--	--	--	--	--	--
PORTHAMEL CT	--	--	--	LT/RT	229	--	1	--	--	--	--	--	--	--	--	--	--	--
CTH G	--	--	--	LT/RT	1,250	--	1	--	806	--	--	--	15	--	--	--	--	--
BRANDYBROOK RD	--	--	--	LT/RT	124	--	1	--	--	117	--	--	--	3	--	--	--	--
E. CRIGLAS RD	--	--	--	LT/RT	96	--	1	--	--	--	--	--	--	--	--	--	--	--
MAIN ST	--	--	--	LT/RT	430	--	1	--	81	--	--	--	2	--	--	--	--	--
USH 18	82+50	--	87+00	LT	744	208	1	536	--	--	--	--	13	--	--	--	--	--
USH 18	87+00	--	98+00	LT	1,570	--	1	--	--	--	--	--	--	--	--	--	--	--
OAK CREST DR	--	--	--	LT	79	--	1	--	--	--	--	--	--	--	--	--	--	--
OAK CREST DR	--	--	--	NE QUAD	102	--	1	--	--	--	--	--	--	--	--	--	--	--
STAGE 3																		
STH 83	619+50	--	646+00	RT	9,473	3,769	6	--	1,531	630	--	12	28	12	--	--	--	--
STH 83 & CTH E/CTH DE	646+00	--	1459+00	LT/RT	6,095	1,378	4	4,717	--	--	--	--	110	--	--	--	--	--
STH 83	1459+00	--	1476+50	RT	4,489	1,217	3	--	--	2,900	--	4	--	53	--	--	--	--
STH 83	1476+50	--	1486+50	RT	2,212	1,163	2	--	--	1,219	--	4	--	22	--	--	--	--
STH 83	1482+50	--	1500+50	LT	4,158	--	3	--	1,344	2,189	--	--	25	40	--	--	--	--
STH 83	1500+50	--	1510+75	LT	1,653	--	2	--	--	808	--	--	--	15	--	--	--	--
STH 83	1510+75	--	1516+00	RT	592	--	1	--	--	--	--	--	--	--	--	--	--	--
STH 83	1516+00	--	1520+00	RT	982	--	1	--	--	--	--	--	--	--	--	--	--	--
STH 83	1520+00	--	1527+25	RT	1,911	300	2	--	--	1,128	--	1	--	21	--	--	--	--
STH 83	1527+25	--	1532+00	RT	212	--	1	--	150	139	--	--	3	3	--	--	--	--
STH 83	1531+00	--	1546+00	LT/RT	4,104	1,703	3	2,401	--	--	--	--	74	--	--	--	--	--
STH 83	1546+00	--	1551+00	LT/RT	599	599	1	--	--	--	--	--	11	--	--	--	--	--
STH 83	1551+00	--	1555+50	LT	975	--	1	--	656	217	--	--	12	4	--	--	--	--
STH 83	1555+50	--	1560+00	LT	1,005	--	1	--	521	381	--	--	10	7	--	--	--	--
STH 83	1560+00	--	1585+00	LT	15,578	--	10	--	13,333	689	--	--	10	13	--	46	--	--
BOYS SCHOOL RD	--	--	--	LT/RT	512	--	1	--	--	--	--	--	--	--	--	--	--	--
USH 18	87+00	--	95+00	RT	1,639	--	2	--	--	--	--	--	--	--	--	--	--	--
OAK CREST DR	--	--	--	SE QUAD	75	--	1	--	--	--	--	--	--	--	--	--	--	--
STAGE 4																		
STH 83 & CTH E/CTH DE	646+00	--	1459+00	LT/RT	2,490	202	2	2,288	--	--	--	--	--	--	--	--	--	--
STH 83	1459+00	--	1472+00	MEDIAN	2,596	--	2	--	--	2,596	--	--	--	47	--	--	--	--
STH 83	1474+50	--	1475+85	MEDIAN	258	--	1	--	--	258	--	--	--	5	--	--	--	--
STH 83	1483+00	--	1486+00	MEDIAN	123	--	1	--	--	123	--	--	--	3	--	--	--	--
STH 83	1490+30	--	1492+50	MEDIAN	303	--	1	--	--	303	--	--	--	6	--	--	--	--
STH 83	1495+40	--	1497+75	MEDIAN	417	--	1	--	--	417	--	--	--	8	--	--	--	--
STH 83	1502+75	--	1509+00	MEDIAN	1,202	--	1	--	--	1,202	--	--	--	22	--	--	--	--
STH 83	1512+70	--	1514+00	MEDIAN	137	--	1	--	--	137	--	--	--	3	--	--	--	--
STH 83	1522+50	--	1525+80	MEDIAN	557	--	1	--	--	557	--	--	--	11	--	--	--	--
STH 83	1529+80	--	1531+20	MEDIAN	187	--	1	--	--	187	--	--	--	4	--	--	--	--
STH 83	1531+00	--	1546+00	LT/RT	2,644	489	2	2,155	1	2,644	--	2	1	48	--	--	--	1
STH 83	1551+00	--	1553+35	MEDIAN	328	--	1	--	--	328	--	--	--	6	--	--	--	--
STH 83	1560+60	--	1564+70	MEDIAN	698	--	1	--	--	698	--	--	--	13	--	--	--	--
UDISTRIBUTED					1,112	3,000	1	--	--	1,112	1	9	--	21	--	--	--	400
TOTALS 0010					125,406	31,452	117	22,518	34,605	26,539	5,557	50	892	494	53	47	23	575

3

	Traffic Control												
			Barricades		Flexible Tubular Marker		WARNING LIGHTS						
	1330-18-70	Drums	Type II	Type III	Posts	Bases	TYPE A	TYPE C	ARROW BOARDS	SIGNS	SIGNS PCMS	DETOUR 1330-18-70	DETOUR SIGNS
	EACH	DAY	DAY	DAY	EACH	EACH	DAY	DAY	DAY	DAY	DAY	EACH	DAY
Location (STA)	643.0100	643.0300	643.0410	643.0420	643.0500	643.0600	643.0705	643.0715	643.0800	643.0900	643.1050	643.2000	643.3000
Stage 1													
STH 83	1	9295	138	440	0	0	880	275	0	2338	14	0	0
E/DE ROUNDABOUT		1100	0	55	0	0	110	0	0	385	14	0	0
USH 18 ROUNDABOUT		3630	0	165	0	0	330	0	0	385	14	0	0
USH 18		0	0	0	0	0	0	0	0	0	0	0	0
STAGE 1 SUBTOTAL		14025	138	660	0	0	1320	275	0	3108	42	0	0
Stage 2													
STH 83		31312	570	5092	201	201	8664	912	0	8322	14	0	0
E/DE ROUNDABOUT		1824	0	1140	19	19	2280	760	0	836	7	0.5	6460
USH 18 ROUNDABOUT		4712	76	456	14	14	912	760	0	836	14	0	0
USH 18		1976	0	76	0	0	152	380	0	760	0	0	0
STAGE 2 SUBTOTAL		39824	646	6764	234	234	12008	2812	0	10754	35	0.5	6460
Stage 3A													
STH 83		7920	30	1440	185	185	2320	160	0	2130	14	0	0
E/DE ROUNDABOUT		260	0	100	0	0	200	0	0	200	7	0.5	2020
USH 18 ROUNDABOUT		1100	0	160	0	0	320	0	0	200	14	0	0
USH 18		540	0	20	0	0	40	0	0	160	0	0	0
STAGE 3 SUBTOTAL		9820	30	1720	185	185	2880	160	0	2690	35	0.5	2020
Stage 3B													
STH 83		17388	207	3220	157	157	5244	0	0	4991	14	0	0
E/DE ROUNDABOUT		598	0	230	0	0	460	0	0	460	7	0	4646
USH 18 ROUNDABOUT		2530	0	368	0	0	736	0	0	460	14	0	0
USH 18		0	0	0	0	0	0	0	0	0	0	0	0
STAGE 3 SUBTOTAL		20516	207	3818	157	157	6440	0	0	5911	35	0	4646
Stage 4													
STH 83		22081	0	1278	0	0	2556	568	28	4544	28	0	0
E/DE ROUNDABOUT		2130	0	142	0	0	284	0	0	568	14	0	0
USH 18 ROUNDABOUT		6745	0	710	0	0	1420	0	0	355	14	0	0
USH 18		0	0	0	0	0	0	0	0	0	0	0	0
STAGE 4 SUBTOTAL		30956	0	2130	0	0	4260	568	28	5467	56	0	0
Undistributed		11514	102	1509	58	58	2691	382	3	2793	20	0	1313
TOTALS 0010	1	126,655	1,123	16,601	634	634	29,599	4,197	31	30,723	223	1	14,439

Location (STA)			Removing Pavement Markings LF 646.0600	Removing Pavement Markings Arrows EACH 647.0955	Removing Pavement Markings Words EACH 647.0965	Temporary Pavement Marking 4-Inch White LF 649.0100	Temporary Pavement Marking 4-Inch Yellow LF 649.0100	Temporary Pavement Marking 8-Inch White LF 649.0701	Temporary Pavement Marking Removable Tape 4-Inch White LF 649.0400	Temporary Pavement Marking Stop Line 18-Inch White LF 649.1100
Stage 2										
620+00	-	London Dr	4,713	--	--	2,710	2,625	--	--	--
London Dr	-	646+00	5,200	--	--	2,409	3,061	70	--	--
646+00	-	1459+00	1,300	2	2	2,324	2,200	191	--	45
1459+00	-	CTH G	9,400	--	--	4,632	4,640	50	--	--
CTH G	-	Welsh Rd	5,250	--	--	3,533	3,390	80	--	--
Welsh Rd	-	Criglas Rd	5,200	--	--	3,155	3,062	90	--	--
Criglas Rd	-	Deck	5,250	--	--	3,005	2,986	200	--	--
Deck	-	1551+00	2,944	2	2	3,424	3,645	301	--	--
1551+00	-	1585+00	12,325	--	--	6,816	6,875	77	--	--
74+50	-	87+00	1,344	7	3	2,184	2,386	294	--	--
Stage 3A										
619+50	-	646+00	3,189	--	--	3,548	4,777	50	--	--
1551+00	-	1565+00	--	--	--	2,678	2,665	100	--	--
1565+00	-	1591+00	2,991	--	--	5,181	5,236	50	--	--
Stage 3B										
620+00	-	646+00	1,092	--	--	1,645	1,344	--	--	--
646+00	-	1459+00	--	--	--	1,128	2,346	318	--	38
1459+00	-	CTH G	--	--	--	4,494	4,525	52	--	--
CTH G	-	Welsh Rd	829	--	--	3,656	3,371	109	190	--
Welsh Rd	-	Criglas Rd	--	--	--	2,949	2,955	200	--	--
Criglas Rd	-	Deck	--	--	--	2,835	2,608	250	--	--
Deck	-	1551+00	--	--	--	2,580	4,384	--	--	101
1551+00	-	1585+00	3,489	--	--	5,441	5,387	150	--	--
74+50	-	87+00	--	--	--	--	2,038	--	--	--
Stage 4										
646+00	-	1459+00	--	--	--	1,406	1,745	--	--	--
1540+50	-	1543+25	--	--	--	827	1,150	--	--	--
		SUBTOTAL	64,516	11	7	72,560	79,401	2,632	190	184
		TOTAL 0100	64,516	11	7	151,961		2,632	190	184

Location	Traffic Control Signs Fixed Message SF 643.1000	Remarks
Freeways	192	2 Signs at 96 SF Each
Conventional Hwy	189	7 Signs at 27 SF Each
Total 0010	381	

STATION	LOCATION	OVERHEAD SIGN SUPPORT (STRUCTURE) S-67-945 641.8100.01 LS	S-67-946 641.8100.02 LS	S-67-947 641.8100.03 LS	S-67-948 641.8100.04 LS	S-67-949 641.8100.05 LS
657+25	STH 83 SB @ SUNSET	1	--	--	--	--
1539+00	STH 83 NB @ USH 18	--	1	--	--	--
75+85	USH 18 EB @ STH 83	--	--	1	--	--
1546+30	STH 83 SB @ USH 18	--	--	--	1	--
82+35	USH 18 WB @ STH 83	--	--	--	--	1
	TOTAL 0010	1	1	1	1	1

STATION	TO	STATION	LOCATION	PAVEMENT MARKING EPOXY 4-INCH 646.0106 WHITE LF	PAVEMENT MARKING EPOXY 4-INCH 646.0106 YELLOW LF	PAVEMENT MARKING SAME DAY EPOXY 4-INCH 646.0406 YELLOW LF
615+00	-	618+65	STH 83	629	--	630
618+65	-	633+50	STH 83	2778	--	2672
			LONDON DR	--	180	--
633+50	-	644+00	STH 83	1927	--	1878
			HARVEST VIEW DR	--	220	--
644+00	-	646+00	STH 83	355	--	312
646+00	-	649+00	STH 83	601	355	600
649+00	-	655+00	STH 83/CTH E/DE	1595	1198	--
655+00	-	1459+00	STH 83	588	588	--
53+75	-	58+00	CTH E	696	954	--
61+00	-	66+01	CTH DE	903	1363	--
1459+00	-	1474+30	STH 83	3160	--	--
	-		PORTHAMEL CT	--	268	--
1474+30	-	1482+65	STH 83	1601	--	--
1482+65	-	1500+25	STH 83	2994	--	--
			WELSH RD	--	220	--
1500+25	-	1510+75	STH 83	1912	--	--
			BENTON CT		132	--
			W SOUTH ST		100	--
1500+75	-	1515+85	STH 83	812	--	--
			CRIGLASS RD	--	306	--
1515+85	-	1519+80	STH 83	556	--	--
			MAIN ST	--	400	--
1519+80	-	1527+80	STH 83	1356	--	--
			CYMRIC CT	--	120	--
1527+80	-	1531+00	STH 83	502	--	--
1533+00	-	1539+00	STH 83	1200	1003	--
1539+00	-	1545+00	STH 83 & USH 18	1306	1161	--
1540+00	-	1551+00	STH 83	1101	1199	--
74+50	-	78+75	USH 18	951	831	--
82+00	-	87+00	USH 18	916	1412	--
87+00	-	97+00	USH 18	1895	1898	--
	-		OAK CREST DR	--	148	--
1551+00	-	1555+50	STH 83	668	755	--
	-		HIGH MEADOW CIR	--	100	--
	-		HIGH MEADOW LN	--	170	--
1555+50	-	1560+15	STH 83	943	670	--
	-		BOYS SCHOOL RD	--	230	--
1560+15	-	1565+00	STH 83	645		--
			GLACIER PASS	--	100	--
1565+00	-	1583+00	STH 83	3275	2974	1800
1583+00	-	1587+00	STH 83	746	--	800
			UNDISTRIBUTED	500	500	100
				37112	19554	
			TOTAL 0010	56666		8792

STATION	TO	STATION	LOCATION	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH WHITE 647.0726 LF	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH YELLOW 647.0726 LF
1572+25	-	1577+50	STH 83	320	--
646+00	-	649+00	STH 83	--	71
649+00	-	655+00	STH 83 & CTH E/CTH DE	4	54
655+00	-	1459+00	STH 83	10	--
53+75	-	58+00	CTH E	--	33
61+00	-	66+01	CTH DE	--	122
1533+00	-	1539+00	STH 83	--	--
1539+00	-	1545+00	STH 83 & USH 18	152	52
74+50	-	78+75	USH 18	49	--
82+00	-	87+00	USH 18	5	71
				540	403
			TOTAL 0010	943	

STATION	TO	STATION	LOCATION	PAVEMENT MARKING CROSSWALK EPOXY 18-INCH 647.0786 LF	REMARKS
618+46	-	618+66	STH 83 35' LT	20	PERKINS RD
633+40	-	633+65	STH 83 35' RT	25	LONDON DR
644+00	-	644+28	STH 83 35' RT	28	HARVEST VIEW DR
1474+11	-	1474+27	STH 83 58' LT	16	PORTHAMEL CT
1482+17	-	1482+57	STH 83 63' LT	31	CTH "G"
1486+62	-	1486+80	STH 83 67' RT	18	BRANDYBROOK RD
1500+11	-	1500+23	STH 83 58' LT	12	WELSH RD
1500+11	-	1500+31	STH 83 55' RT	20	WELSH RD
1510+59	-	1510+77	STH 83 59' LT	18	BENTON CT
1510+76	-	1510+90	STH 83 61' RT	14	SOUTH ST
1515+66	-	1515+89	STH 83 59' LT	23	W CRIGLASS RD
1515+86	-	1516+03	STH 83 58'RT	17	W CRIGLASS RD
1519+83	-	1520+12	STH 83 59' RT	29	MAIN ST
1527+61	-	1527+80	STH 83 59' LT	19	CYMRIC CT
96+29		96+29	USH 18, 0'-12' LT	12	USH 18
96+45	-	96+45	USH 18, 0'-27' RT	27	USH 18
96+94	-	97+12	USH 18 58' LT	18	OAK CREST DR
97+12	-	97+43	USH 18 64' LT	23	OAK CREST DR
1555+37	-	1555+59	STH 83 75' LT	22	HIGH MEADOW CIR
1555+63	-	1555+92	STH 83 65' RT	19	HIGH MEADOW LN
1559+99	-	1560+18	STH 83 75' LT	19	BOYS SCHOOL RD
1565+12	-	1565+38	STH 83 69' RT	26	GLACIER PASS
1582+91	-	1583+22	STH 83 38' RT	31	GLACIER PASS
			TOTAL 0010	487	

PAVEMENT MARKING
GROOVED WET REFLECTIVE
TAPE 4-INCH
SPV.0090.03

STATION	TO	STATION	LOCATION	LF	REMARKS
649+00	-	655+00	STH 83 & CTH E/DE	39	--
655+00	-	1459+00	STH 83	121	--
1459+00	-	1474+00	STH 83 SB	375	12.5' CENTER SKIPS
1459+00	-	1474+00	STH 83 NB	375	12.5' CENTER SKIPS
1474+00	-	1482+00	STH 83 SB	188	12.5' CENTER SKIPS
1474+00	-	1482+00	STH 83 NB	188	12.5' CENTER SKIPS
1482+00	-	1486+00	STH 83 SB	75	12.5' CENTER SKIPS
1482+00	-	1486+00	STH 83 NB	75	12.5' CENTER SKIPS
1486+00	-	1500+00	STH 83 SB	325	12.5' CENTER SKIPS
1486+00	-	1500+00	STH 83 NB	325	12.5' CENTER SKIPS
1500+00	-	1510+00	STH 83 SB	238	12.5' CENTER SKIPS
1500+00	-	1510+00	STH 83 NB	238	12.5' CENTER SKIPS
1510+00	-	1515+00	STH 83 SB	113	12.5' CENTER SKIPS
1510+00	-	1515+00	STH 83 NB	113	12.5' CENTER SKIPS
1515+00	-	1519+00	STH 83 SB	75	12.5' CENTER SKIPS
1515+00	-	1519+00	STH 83 NB	75	12.5' CENTER SKIPS
1519+00	-	1527+00	STH 83 SB	175	12.5' CENTER SKIPS
1519+00	-	1527+00	STH 83 NB	175	12.5' CENTER SKIPS
1527+00	-	1533+00	STH 83 SB	63	12.5' CENTER SKIPS
1527+00	-	1533+00	STH 83 NB	63	12.5' CENTER SKIPS
1533+00		1539+00	STH 83	300	--
1539+00		1545+00	STH 83 & USH 18	130	--
1540+00		1551+00	STH 83	573	--
1551+00	-	1555+00	STH 83 SB	100	12.5' CENTER SKIPS
1551+00	-	1555+00	STH 83 NB	100	12.5' CENTER SKIPS
1555+00	-	1560+00	STH 83 SB	75	12.5' CENTER SKIPS
1555+00	-	1560+00	STH 83 NB	75	12.5' CENTER SKIPS
1560+00	-	1564+00	STH 83 SB	100	12.5' CENTER SKIPS
1560+00	-	1564+00	STH 83 NB	100	12.5' CENTER SKIPS
1564+00	-	1572+00	STH 83 SB	163	12.5' CENTER SKIPS
1564+00	-	1572+00	STH 83 NB	163	12.5' CENTER SKIPS
629+70	-	631+70	STH 83 NB	39	3' LINE 12' SKIP
640+30	-	642+30	STH 83 NB	39	3' LINE 12' SKIP
1484+00	-	1489+00	STH 83 SB	18	3' LINE 12' SKIP
1551+70	-	1552+70	STH 83 NB	18	3' LINE 12' SKIP
1557+30	-	1559+70	STH 83 SB	48	3' LINE 12' SKIP
1561+30	-	1562+30	STH 83 NB	18	3' LINE 12' SKIP
1562+80	-	1563+80	STH 83 SB	18	3' LINE 12' SKIP
74+50	-	78+75	USH 18 EB	54	--
82+00	-	87+00	USH 18 EB	125	--
87+00	-	94+00	USH 18 EB	140	3' LINE 12' SKIP
			TOTAL 0010	5645	

PAVEMENT MARKING
GROOVED WET REFLECTIVE
TAPE 8-INCH
SPV.0090.04

STATION	TO	STATION	LOCATION	LF
617+17	-	619+67	STH 83 12' RT	250
631+77	-	632+76	STH 83 17' RT	99
632+47	-	634+95	STH 83 12' LT	248
642+26	-	643+26	STH 83 17' RT	100
643+00	-	645+50	STH 83 12' LT	250
649+00	-	655+00	STH 83	543
655+00	-	1459+00	STH 83	188
53+75	-	58+00	CTH E	57
61+00	-	66+01	CTH DE	--
1471+89	-	1473+81	STH 83 11' RT	190
1476+94	-	1478+14	STH 83 13' LT	120
1480+50	-	1481+77	STH 83 12' RT	127
47+49	-	49+15	CTH G 12' RT	223
1483+24	-	1484+04	STH 83 39' LT	80
1487+16	-	1490+19	STH 83 7.8' LT	303
1492+58	-	1494+74	STH 83 11' RT	216
1497+77	-	1499+68	STH 83 11' RT	191
1500+73	-	1502+59	STH 83 11' LT	186
1509+07	-	1510+27	STH 83 11' RT	120
1511+25	-	1512+60	STH 83 11' LT	135
1514+03	-	1515+33	STH 83 11' RT	130
1516+27	-	1517+73	STH 83 11' LT	145
1518+73	-	1519+16	STH 83 11' RT	43
50+52	-	50+60	MAIN STREET 12' RT	108
1520+50	-	1522+43	STH 83 11' LT	193
1525+84	-	1527+30	STH 83 11' RT	146
1528+38	-	1529+67	STH 83 11' LT	129
1533+00	-	1539+00	STH 83	394
1539+00	-	1545+00	STH 83	1174
1540+00	-	1551+00	STH 83	258
92+00	-	96+45	USH 18 12' RT	445
95+38	-	96+45	USH 18 R/L	107
74+50		78+75	USH 18 R/L	608
82+00		87+00	USH 18 R/L	236
1552+82	-	1554+90	STH 83 44' RT	208
1553+02	-	1554+90	STH 83 11' RT	189
1553+02	-	1554+90	STH 83 15' RT	188
1556+31	-	1557+33	STH 83 44' LT	102
1556+31	-	1558+24	STH 83 11' LT	194
1556+31	-	1558+24	STH 83 15' LT	193
1558+44	-	1559+64	STH 83 11' RT	122
1558+44	-	1559+64	STH 83 15' RT	120
1560+87	-	1562+92	STH 83 44' LT	205
1562+34	-	1564+45	STH 83 44' RT	311
1565+51	-	1567+88	STH 83 11' LT	237
1565+51	-	1567+88	STH 83 11' RT	236
1580+94	-	1581+95	STH 83 12' RT	101
1581+30	-	1584+31	STH 83 12' LT	301
			TOTAL 0010	10449

3

PAVEMENT MARKING GROOVED
CROSSWALK PREFORMED
THERMOPLASTIC 6-INCH
SPV.0090.05

STATION	TO	STATION	LOCATION	LF
96+49	-	96+55	USH 18	110
97+60	-	97+66	USH 18	110
96+89	-	97+39	43' LT USH 18	100
96+91	-	96+36	55' RT USH 18	90
			TOTAL 0010	410

PAVEMENT MARKING GROOVED
PREFORMED THERMOPLASTIC
8-INCH
SPV.0090.06

STATION	TO	STATION	LOCATION	LF	REMARKS
1539+00	-	1545+00	STH 83 & USH 18	421	STH 83 & USH 18
			TOTAL 0010	421	

PAVEMENT MARKING GROOVED
PREFORMED THERMOPLASTIC
18-INCH
SPV.0090.07

STATION	TO	STATION	LOCATION	LF	REMARKS
649+00	-	655+00	STH 83 & CTH E/CTH	96	STH 83
1539+00	-	1545+00	STH 83 & USH 18	112	STH 83 & USH 18
74+50	-	78+75	USH 18	14	USH 18
			TOTAL 0010	222	

PAVEMENT MARKING GROOVED
CROSSWALK PREFORMED
THERMOPLASTIC 24-INCH
SPV.0090.08

STATION	TO	STATION	LOCATION	LF	REMARKS
646+00		649+00	STH 83	384	STH 83
1474+10	-	1474+48	46' LT STH 83	72	PORTHAMEL CT
1482+14	-	1482+93	51' LT STH 83	136	CTH "G"
1487+08	-	1487+16	STH 83	136	STH 83
1499+70	-	1499+78	STH 83	112	STH 83
1499+92	-	1500+34	43' RT STH 83	72	WELSH RD
1500+10	-	1500+48	46' LT STH 83	72	WELSH RD
1500+63	-	1500+71	STH 83	136	STH 83
1510+28	-	1510+36	STH 83	136	STH 83
1510+38	-	1510+75	47' LT STH 83	72	BENTON CT
1510+61	-	1510+91	49' RT STH 83	64	W SOUTH ST
1511+17	-	1511+25	STH 83	136	STH 83
1515+33	-	1515+41	STH 83	136	STH 83
1515+64	-	1516+08	47' LT STH 83	88	W CRIGLASS RD
1515+69	-	1516+07	46' RT STH 83	80	W CRIGLASS RD
1516+29	-	1516+37	STH 83	136	STH 83
1519+16	-	1519+24	STH 83	136	STH 83
1519+49	-	1520+15	47' RT STH 83	120	MAIN ST
1520+42	-	1520+50	STH 83	136	STH 83
1527+30	-	1527+38	STH 83	136	STH 83
1527+59	-	1527+96	47' LT STH 83	72	CYMRIC CT
1528+38	-	1528+46	STH 83	136	STH 83
1539+00	-	1545+00	STH 83 & USH 18	440	STH 83 & USH 18
74+50	-	78+75	USH 18	120	USH 18
			TOTAL 0010	3264	

				PAVEMENT MARKING	
				CURB EPOXY 647.0456	ISLAND NOSE EPOXY 647.0606
STATION	TO	STATION	LOCATION	LF	EACH
646+00	-	649+00	STH 83	22	1
1459+00	-	1486+50	STH 83	50	9
1486+50	-	1533+00	STH 83	-	13
53+75	-	58+00	CTH E	13	1
1533+00	-	1539+00	STH 83	54	4
1539+00	-	1585+00	STH 83	50	6
82+00	-	87+00	USH 18	13	1
TOTAL 0010				202	35

STATION	TO	STATION	LOCATION	PAVEMENT MARKING GROOVED ARROWS PREFORMED THERMOPLASTIC TYPE 1 SPV.0060.13 EACH	PAVEMENT MARKING GROOVED ARROWS PREFORMED THERMOPLASTIC TYPE 2R SPV.0060.14 EACH	PAVEMENT MARKING GROOVED ARROWS PREFORMED THERMOPLASTIC TYPE 2 SPV.0060.15 EACH	PAVEMENT MARKING GROOVED ARROWS PREFORMED THERMOPLASTIC TYPE 3 SPV.0060.16 EACH	PAVEMENT MARKING GROOVED ARROWS THERMOPREFORMED PLASTIC TYPE 3R SPV.0060.17 EACH	PAVEMENT MARKING GROOVED WORDS PREFORMED THERMOPLASTIC SPV.0060.18 EACH
617+17	-	619+67	STH 83 12' RT	--	--	--	--	--	6
631+77	-	632+76	STH 83 17' RT	--	1	--	--	--	1
632+47	-	634+95	STH 83 12' LT	--	--	--	--	--	--
642+26	-	643+26	STH 83 17' RT	--	1	--	--	--	1
643+00	-	645+50	STH 83 12' LT	--	--	--	--	--	--
649+00	-	655+00	STH 83	--	--	2	--	2	6
655+00	-	1459+00	STH 83	--	--	2	--	1	1
53+75	-	58+00	CTH E	--	--	1	--	--	--
61+00	-	66+01	CTH DE	--	--	--	--	--	--
1471+89	-	1473+81	STH 83 11' RT	--	--	--	--	--	--
1476+94	-	1478+14	STH 83 13' LT	--	--	--	--	--	--
1480+50	-	1481+77	STH 83 12' RT	--	--	--	--	--	--
47+49	-	49+15	CTH G 12' RT	--	--	2	--	--	2
1483+24	-	1484+04	STH 83 39' LT	--	--	1	--	--	1
1487+16	-	1490+19	STH 83 7.8' LT	--	--	--	--	--	--
1492+58	-	1494+74	STH 83 11' RT	--	--	--	--	--	--
1497+77	-	1499+68	STH 83 11' RT	--	--	--	--	--	--
1500+73	-	1502+59	STH 83 11' LT	--	--	--	--	--	--
1509+07	-	1510+27	STH 83 11' RT	--	--	--	--	--	--
1511+25	-	1512+60	STH 83 11' LT	--	--	--	--	--	--
1514+03	-	1515+33	STH 83 11' RT	--	--	--	--	--	--
1516+27	-	1517+73	STH 83 11' LT	--	--	--	--	--	--
1518+73	-	1519+16	STH 83 11' RT	--	--	--	--	--	--
50+52	-	50+60	MAIN STREET 12' RT	--	--	1	2	--	1
1520+50	-	1522+43	STH 83 11' LT	--	--	--	--	--	--
1525+84	-	1527+30	STH 83 11' RT	--	--	--	--	--	--
1528+38	-	1529+67	STH 83 11' LT	--	--	--	--	--	--
1533+00	-	1539+00	STH 83	--	--	3	1	1	1
1539+00	-	1545+00	STH 83	4	1	1	6	2	9
1540+00	-	1551+00	STH 83	--	--	2	2	2	2
92+00	-	96+45	USH 18 12' RT	--	--	--	--	--	2
95+38	-	96+45	USH 18 R/L	--	--	--	--	--	1
74+50		78+75	USH 18 R/L	--	--	1	2	3	2
82+00		87+00	USH 18 R/L	--	1	2	2	--	1
1552+82	-	1554+90	STH 83 44' RT	--	--	--	--	--	--
1553+02	-	1554+90	STH 83 11' RT	--	--	2	--	--	2
1553+02	-	1554+90	STH 83 15' RT	--	--	--	--	--	--
1556+31	-	1557+33	STH 83 44' LT	--	--	1	--	--	1
1556+31	-	1558+24	STH 83 11' LT	--	--	--	--	--	--
1556+31	-	1558+24	STH 83 15' LT	--	--	--	--	--	--
1558+44	-	1559+64	STH 83 11' RT	--	--	--	--	--	--
1558+44	-	1559+64	STH 83 15' RT	--	--	--	--	--	--
1560+87	-	1562+92	STH 83 44' LT	--	--	2	--	--	2
1562+34	-	1564+45	STH 83 44' RT	--	--	2	--	--	2
1565+51	-	1567+88	STH 83 11' LT	--	--	--	--	--	--
1565+51	-	1567+88	STH 83 11' RT	--	--	--	--	--	--
1580+94	-	1581+95	STH 83 12' RT	--	--	--	--	--	--
1581+30	-	1584+31	STH 83 12' LT	--	--	--	--	--	--
			TOTAL 0010	4	4	25	15	11	44

STATION	TO	STATION	LOCATION	CONSTRUCTION STAKING SUBGRADE SUBGRADE 650.4500 LF	BASE 650.5000 LF	SLOPE STAKES 650.9920 LF
615+00	-	646+00	STH 83	3100	3100	3100
646+00	-	658+00	STH 83	1200	1200	1200
1459+00	-	1532+00	STH 83	14600	14600	7300
1533+00	-	1571+00	STH 83	7600	7600	3800
1571+00	-	1587+00	STH 83	1600	1600	1600
46+00	-	49+00	CTH G	300	300	300
51+00	-	52+50	MAIN STREET	150	150	150
75+00	-	79+00	USH 18	800	800	400
82+00	-	96+50	USH 18	1450	1450	1450
			TOTAL 0010	30800	30800	19300

STRUCTURE	LOCATION	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 650.6500 LS
01.B-67-317	STH 83	1
02.B-67-329	STH 83	1
03.R-67-102	STH 83	1
04.R-67-103	STH 83	1
05.R-67-104	STH 83	1
06.R-67-107	STH 83	1
CATEGORY 0010		

LOCATION	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (1330-18-70) 650.9910 LS
PROJECT ID: 1330-18-70	1
TOTAL 0010	1

STATION	TO	STATION	LOCATION	SAWING ASPHALT 690.0150 LF
615+00	-	646+00	STH 83	2495
646+00	-	1459+00	STH 83	1500
1459+00	-	1500+00	STH 83	124
1500+00	-	1531+50	STH 83	488
1532+00	-	1551+00	STH 83	130
1551+00	-	1587+00	STH 83	2050
--		--	PERKINS RD	24
--		--	LONDON DR	24
--		--	HARVEST VIEW DR	24
53+75	-	53+75	CTH E	25
66+00	-	66+00	CTH DE	24
--		--	PORTHAMEL CT	44
--		--	CTH G	24
--		--	BRANDYBROOK RD	24
--		--	WELSH RD	48
--		--	BENTON CT	30
--		--	SOUTH ST	28
--		--	CRIGLAS RD	50
--		--	CTH G	46
--		--	CYMRIC CT	30
74+50	-	98+00	USH 18	2456
--		--	HIGH MEADOW LN	54
--		--	BOYS SCHOOL RD	44
--		--	GLACIER PASS SO.	35
--		--	GLACIER PASS NO.	40
UNDISTRIBUTED				2000
			TOTAL 0010	11861

LOCATION	SAWING CONCRETE 690.0250 LF
BENTON CT	5
CTH G	5
USH 18	30
UNDISTRIBUTED	100
TOTAL 0010	140

TYPE II SIGN REMOVAL **STH 83 1330-18-70**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	REMARKS / NEW SIGN LOCATION
1R	W14-3		1	1	--
2R	R1-1		1	1	--
3R	W1-2R		1	1	--
4R	W2-2R		1	1	--
5R	R1-1		1	1	--
6R	W5-52R		1	1	--
7R	W3-3		1	1	--
8R	W3-4		1	1	--
9R	R2-1		1	1	--
10R	W1-2L		1	1	--
11R	R1-1		1	1	--
12R	J2-2	EXISTING ASSEMBLY	1	1	--
13R	R3-8W		1	2	--
14R	J4-1	EXISTING ASSEMBLY	1	1	--
15R	J3-2	EXISTING ASSEMBLY	1	2	--
16R	R1-1F		1	--	--
17R	R1-1F		1	--	--
18R	R4-7		1	1	--
19R	J4-1	EXISTING ASSEMBLY	1	1	--
20R	R2-1		1	--	--
21R	W3-3		1	1	--
22R	J2-3	EXISTING ASSEMBLY	1	2	--
23R	J3-2	EXISTING ASSEMBLY	1	1	--
24R	J4-1	EXISTING ASSEMBLY	1	1	--
25R	R2-1		1	1	--
26R	W1-2R		1	1	--
27R	J1-2	EXISTING ASSEMBLY	1	1	--
28R	W1-2R		1	1	--
29R	J2-2	EXISTING ASSEMBLY	1	1	--
30R	R3-8W		1	2	--
31R	J3-2	EXISTING ASSEMBLY	1	1	--
32R	R1-1F		1	--	--
33R	J4-1	EXISTING ASSEMBLY	1	1	--
34R	J1-3	EXISTING ASSEMBLY	1	2	--
35R	W2-2R		1	1	--
36R	J3-1	EXISTING ASSEMBLY	1	--	--
37R	R1-1		1	1	--
38R	R3-5L		1	--	--
39R	R3-5L		1	--	--
40R	J3-2	EXISTING ASSEMBLY	1	1	--
41R	R1-1F		1	--	--
42R	R1-1F		1	--	--
43R	R4-7		1	--	--
44R	R4-7		1	--	--
45R	W3-4		1	1	--

TYPE II SIGN REMOVAL **STH 83 1330-18-70**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	REMARKS / NEW SIGN LOCATION
46R	W3-4		1	1	--
47R	W3-3		1	1	--
48R	W3-3		1	1	--
49R	J1-1	EXISTING ASSEMBLY	1	1	--
50R	W11-8		1	--	--
51R		WHEN SIGNAL IS FLASHING	1	--	--
52R	W2-2L		1	1	--
53R	R2-1		1	1	--
54R	J2-1	EXISTING ASSEMBLY	1	1	--
55R	W1-2L		1	1	--
56R	R1-1		1	1	--
57R	W1-8L		1	1	--
58R	W1-6		1	1	--
59R	W1-8L		1	1	--
60R	W1-8L		1	1	--
61R	W1-8L		1	1	--
62R	W1-8L		1	1	--
63R	J3-1	EXISTING ASSEMBLY	1	1	--
64R	W1-7		1	1	--
65R	J3-1	EXISTING ASSEMBLY	1	1	--
66R	W1-7		1	1	--
67R	R1-1		1	1	--
68R	R2-1		1	1	--
69R	J1-1	EXISTING ASSEMBLY	1	1	--
70R	W2-2R		1	1	--
71R	R2-1		1	1	--
72R	J2-1	EXISTING ASSEMBLY	1	--	--
73R	R3-7R		1	1	--
74R	R1-1		1	1	--
75R	W4-4C		1	--	--
76R	R2-1		1	1	--
77R	NOT USED		--	--	--
78R	NOT USED		--	--	--
79R	NOT USED		--	--	--
80R	J1-2	EXISTING ASSEMBLY	1	1	--
81R	W3-1		1	1	--
82R	J3-1	EXISTING ASSEMBLY	1	1	--
83R	W11-8		1	--	--
84R		WHEN SIGNAL IS FLASHING	1	--	--
85R	W14-3		1	1	--
86R	R2-1		1	1	--
87R	R1-1		1	1	--
88R	R1-1		1	1	--
89R	R2-1		1	1	--

TYPE II SIGN REMOVAL **STH 83 1330-18-70**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	REMARKS / NEW SIGN LOCATION
90R	W14-3		1	1	--
91R	R2-1		1	1	--
92R	R1-1		1	1	--
93R	R1-1		1	1	--
94R	R1-1		1	1	--
95R	D7-95R	GLACIAL DRUMLIN	1	2	--
96R	R2-1		1	1	--
97R	R1-1		1	1	--
98R	D7-95L	GLACIAL DRUMLIN	1	2	--
99R	R2-1		1	1	--
100R	J1-1	EXISTING ASSEMBLY	1	1	--
101R	W5-52R		1	1	--
102R	J2-3	EXISTING ASSEMBLY	1	2	--
103R	W3-3		1	1	--
104R	D1-3	HARTLAND - DOUSMAN - WAUKESHA	1	2	--
105R	J3-1	EXISTING ASSEMBLY	1	1	--
106R	J3-2	EXISTING ASSEMBLY	1	1	--
107R	I2-3	WALES	1	2	--
108R	R2-1		1	--	--
109R	R1-1		1	1	--
110R	R4-7		1	1	--
111R	D2-2		1	2	--
112R	J1-2	EXISTING ASSEMBLY	1	1	--
113R	W5-52R		1	1	--
114R	R1-1		1	1	--
115R	R2-1		1	1	--
116R	W14-3		1	--	--
117R	W12-1D		1	--	--
118R	W12-1D		1	--	--
119R	R1-2		1	1	--
120R	W9-1R		1	--	--
121R	J4-1	EXISTING ASSEMBLY	1	1	--
122R	D2-2	WAUKESHA - MILWAUKEE	1	2	--
123R	R7-1D		1	--	--
124R	NOT USED		--	--	--
125R	R2-1		1	1	--
126R	J3-1	EXISTING ASSEMBLY	1	1	--
127R	R7-1D		1	1	--
128R	R7-1D		1	--	--
129R	D1-3	DOUSMAN - MUKWONAGO - HARTLAND	1	2	--
130R	J3-1	EXISTING ASSEMBLY	1	1	--
131R	J3-1	EXISTING ASSEMBLY	1	1	--
132R	J3-2	EXISTING ASSEMBLY	1	1	--
133R	R7-1D		1	--	--

TYPE II SIGN REMOVAL **STH 83 1330-18-70**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	REMARKS / NEW SIGN LOCATION
134R	R1-1		1	1	--
135R	J4-1	EXISTING ASSEMBLY	1	--	--
136R	D2-3		1	2	--
137R	R5-1A		1	1	--
138R	R4-7		1	1	--
139R	R3-4		1	--	--
140R	R2-1		1	1	--
141R	R5-1		1	1	--
142R	W11-3		1	1	--
143R	W57-51		1	--	--
144R	R59-51		1	1	--
145R	W2-50		1	1	--
146R	W2-50P		1	--	--
147R	W2-50		1	1	--
148R	W2-50P		1	--	--
149R	J3-1	EXISTING ASSEMBLY	1	1	--
150R	NOT USED		--	--	--
151R	J2-3	EXISTING ASSEMBLY	1	2	--
152R	J2-2	EXISTING ASSEMBLY	1	2	--
153R	W3-3		1	1	--
154R	R5-1A		1	--	--
155R	R4-7		1	1	--
156R	R3-4		1	--	--
157R	R6-2R		1	1	--
158R	R1-1		1	1	--
159R	R3-53R		1	1	--
160R	R3-8W		1	2	--
161R	W21-61		1	1	--
162R	R5-1		1	1	--
163R	D1-3	WALES - WAUKESHA - DOUSMAN	1	2	--
164R	J3-2	EXISTING ASSEMBLY	1	1	--
165R	J3-2	EXISTING ASSEMBLY	1	2	--
166R	R1-1F		1	--	--
167R	R1-1F		1	--	--
168R	R1-1F		1	--	--
169R	R1-1F		1	--	--
170R	R2-1		1	--	--
171R	W2-6		1	1	--
172R	W13-1		1	--	--
173R	W2-6P		1	--	--
174R	NOT USED		--	--	--
175R	NOT USED		--	--	--
176R	R4-7		1	1	--
177R	W5-54D		1	--	--
178R	W3-3		1	--	--

TYPE II SIGN REMOVAL **STH 83 1330-18-70**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REM SIGNS TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	REMARKS / NEW SIGN LOCATION
179R	W3-3		1	--	--
180R	D1-3	WAUKESHA - HARTLAND - MUKWONAGO	1	2	--
181R	R3-8M		1	2	--
182R	J2-3	EXISTING ASSEMBLY	1	2	--
183R	J2-1	EXISTING ASSEMBLY	1	1	--
184R	R3-7R		1	1	SHEET 10A OF 13
185R	R1-1		1	1	SHEET 10A OF 13
186R	R1-1		1	1	--
187R	R2-1		1	1	--
188R	NOT USED		--	--	--
189R	R1-1		1	1	--
190R	NOT USED		--	--	--
191R	R1-1		1	1	--
192R	R2-1		1	1	--
193R	NOT USED		--	--	--
194R	R1-1		1	1	--
195R	R5-98		1	1	--
196R	J1-1	EXISTING ASSEMBLY	1	1	--
197R	R2-1		1	1	--
198R	R1-1		1	1	--
199R	R2-1		1	1	--
200R	R2-1		1	1	--
201R	W14-3		1	1	--
202R	R2-1		1	1	SHEET 4 OF 13
203R	D7-68		1	1	SHEET 6 OF 13
204R	W3-3		1	1	
205R	R7-1D		1	1	
206R	J2-1	EXISTING ASSEMBLY	1	1	
207R	J2-3	EXISTING ASSEMBLY	1	2	
208R	R7-1D		1	--	
209R	J12-1	EXISTING ASSEMBLY	1	1	
210R	R3-8W		1	2	
211R	R7-1D		1	1	
212R	W3-3		1	1	
213R	R7-1L		1	1	
214R	J1-1	EXISTING ASSEMBLY	1	1	
215R	R1-1F		1	--	
216R	R1-1F		1	--	
217R	R1-1F		1	--	
218R	R1-1F		1	--	
219R	R3-7R		1	1	
220R	R7-1D		1	1	
221R	J1-1	EXISTING ASSEMBLY	1	1	SHEET 3 OF 13
222R	W3-2		1	1	SHEET 10A OF 13
	UNDISTRIBUTED				
	TOTALS		212	189	

SHEET 5 OF 5

TYPE I & II PERMANENT SIGNING -

CATEGORY CODE 0010

1330-18-70 STH 83

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
1	W14-3(2S)	II	--	48 x 36	--	--	6.000	--	--	1	--	--	--	x	0.00	--
2	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
3	W1-7(2S)	II	--	48 x 24	--	--	8.000	--	--	1	--	--	--	x	0.00	--
4	W1-2R(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
5	W2-2R(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
6	W1-7(2S)	II	--	48 x 24	--	--	8.000	--	--	1	--	--	--	x	0.00	--
7	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
8	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
9	J1-2(3)	II	--	72 x 57	28.500	--	--	--	--	2	--	--	--	x	0.00	--
	M2-1	II	--	30 x 21												
	M1-5A	II	CTH E	36 x 36												
	M2-1	II	--	30 x 21												
	M1-5A	II	CTH DE	36 x 36												
10	W2-6(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
11	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
12	W13-1(2S)	II	15 MPH	18 x 18	--	--	2.250	--	--	--	--	#10	--	x	0.00	--
13	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
14	D1-1	I	NORTH [83] [E] [DE] E TOMLIN [ARROW] SUNSET	-- x --	--	--	--	--	--	4	--	--	--	13 x 7	91.00	--
15	W3-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
16	W6-3(2S)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
17	W1-7(2S)	II	--	48 x 24	--	--	8.000	--	--	1	--	--	--	x	0.00	--
18	D1-2	II	[A] E TOMLIN RD SUNSET DR [A]	84 x 30	17.500	--	--	--	--	2	--	--	--	x	0.00	--
19	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
20	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
21	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
22	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#21	--	x	0.00	--
23	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
24	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	#23	4' MOUNTING HEIGHT	x	0.00	--
25	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
26	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	--	--	--	#25	5.25' MOUNTING HEIGHT	x	0.00	--
27	D1-2	II	[DE] SUNSET DR [A]	84 x 30	17.500	--	--	--	--	2	--	--	--	x	0.00	--
28	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
29	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#28	--	x	0.00	--
30	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
31	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	#30	4' MOUNTING HEIGHT	x	0.00	--
32	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
33	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	--	--	--	#32	5.25' MOUNTING HEIGHT	x	0.00	--
34	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
35	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#34	--	x	0.00	--
36	D1-1	II	[83] NORTH [A]	66 x 24	11.000	--	--	--	--	2	--	--	--	x	0.00	--
37	W12-1D(2S)	II	--	24 x 24	--	--	4.000	--	--	1	--	--	2' MOUNTING HEIGHT	x	0.00	--
38	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
39	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#38	--	x	0.00	--
40	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
41	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	#40	4' MOUNTING HEIGHT	x	0.00	--
42	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
43	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	--	--	--	#42	5.25' MOUNTING HEIGHT	x	0.00	--
44	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
45	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#44	--	x	0.00	--

TYPE I & II PERMANENT SIGNING -

CATEGORY CODE 0010

1330-18-70 STH 83

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
46	D1-2	II	[E] E TOMLIN RD [A]	84 x 30	17.500	--	--	--	--	2	--	--	--	x	0.00	--
47	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
48	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#47	--	x	0.00	--
49	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
50	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	#49	4' MOUNTING HEIGHT	x	0.00	--
51	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
52	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	--	--	--	#51	5.25' MOUNTING HEIGHT	x	0.00	--
53	D1-1	II	[83] SOUTH [A]	66 x 24	11.000	--	--	--	--	2	--	--	--	x	0.00	--
54	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
55	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#54	--	x	0.00	--
56	J4-1(2S) M3-3 M1-6	II II II	-- -- STH 83	24 x 36 24 x 12 24 x 24	6.000	--	--	--	--	1	--	--	--	x	0.00	--
57	R5-1A(2S)	II	--	36 x 24	6.000	--	--	--	--	--	--	#56	BACK OF #56	x	0.00	--
58	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	1	--	--	--	x	0.00	--
59	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
60	W5-54(2S)	II	--	18 x 18	--	--	2.250	--	--	--	--	#59	--	x	0.00	--
61	R6-1R(2S)	II	--	36 x 12	3.000	--	--	--	--	1	--	--	--	x	0.00	--
62	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	#62	4' MOUNTING HEIGHT	x	0.00	--
63	R6-1R(2S)	II	--	36 x 12	3.000	--	--	--	--	1	--	--	--	x	0.00	--
64	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	#63	4' MOUNTING HEIGHT	x	0.00	--
65	R6-1R(2S)	II	--	36 x 12	3.000	--	--	--	--	1	--	--	--	x	0.00	--
66	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	#65	4' MOUNTING HEIGHT	x	0.00	--
67	R6-1R(2S)	II	--	36 x 12	3.000	--	--	--	--	1	--	--	--	x	0.00	--
68	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	#67	4' MOUNTING HEIGHT	x	0.00	--
69	J4-1(2S) M3-1 M1-6	II II II	-- -- STH 83	24 x 36 24 x 12 24 x 24	6.000	--	--	--	--	1	--	--	--	x	0.00	--
70	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
71	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
72	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
73	W2-6(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
74	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
75	W13-1(2S)	II	15 MPH	18 x 18	--	--	2.250	--	--	--	--	#73	--	x	0.00	--
76	W2-6(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
77	**NOT USED**	II	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
78	W13-1(2S)	II	15 MPH	18 x 18	--	--	2.250	--	--	--	--	#76	--	x	0.00	--
79	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
80	--	I	SOUTH [83] [DE] SUNSET DR [ARROW]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-67-945	12 x 9	108.00	--
81	--	I	[E] E TOMLIN RD [ARROW]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-67-945	10 x 8	80.00	--
82	W3-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
83	W3-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
84	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
85	--		CHURCH	-- x --	--	--	--	2	1	2	--	--	--	x	0.00	--
86	--		CHURCH	-- x --	--	--	--	--	1	--	--	#85	--	x	0.00	--

TYPE I & II PERMANENT SIGNING -

CATEGORY CODE 0010

1330-18-70 STH 83

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
87	--		CHURCH	-- x --	--	--	--	--	1	--	--	#85	--	x	0.00	--
88	--		CHURCH	-- x --	--	--	--	--	1	--	--	#85	--	x	0.00	--
89	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
90	W1-2R(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
91	W1-2R(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
92	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
93	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
94	J1-2(3)	II	--	36 x 93	23.250	--	--	--	--	1	--	--	--	x	0.00	--
	M2-1	II	--	30 x 21	--	--	--	--	--	--	--	--	--	x	0.00	--
	M1-5A	II	CTH DE	36 x 36	--	--	--	--	--	--	--	--	--	x	0.00	--
	M1-5A	II	CTH E	36 x 36	--	--	--	--	--	--	--	--	--	x	0.00	--
95	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
96	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
97	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
98	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
99	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
100	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
101	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
102	W54-60(3)	II	--	36 x 36	--	--	9.000	--	--	--	--	--	MOUNT ON SIGNAL POLE	x	0.00	--
103	R5-1A(3)	II	--	42 x 30	8.750	--	--	--	--	1	--	--	--	x	0.00	--
104	J1-1(3)	II	--	36 x 57	14.250	--	--	--	--	1	--	--	--	x	0.00	--
	M2-1	II	--	30 x 21												
	M1-5A	II	CTH G	36 x 36												
105	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
106	W16-7L(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	#105	--	x	0.00	--
107	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
108	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
109	R6-2L(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
110	--	II	[A] W BRANDYBROOK ROAD NEXT INTERSECTION	96 x 30	20.000	--	--	--	--	2	--	--	--	x	0.00	--
111	R5-1(3)	II	--	36 x 36	9.000	--	--	--	--	1	--	--	--	x	0.00	--
112	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
113	R6-2L(2M)	II	--	30 x 36	7.500	--	--	--	--	1	--	--	--	x	0.00	--
114	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
115	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
116	W16-7L(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	#115	--	x	0.00	--
117	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
118	W16-7R(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	#117	--	x	0.00	--
119	R5-1(3)	II	--	36 x 36	9.000	--	--	--	--	--	--	#115	BACK OF #115	x	0.00	--
120	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
121	R6-3A(2S)	II	--	30 x 24	5.000	--	--	--	--	--	--	#120	--	x	0.00	--
122	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
123	W16-7R(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
124	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
125	J12-1(3)	II	--	36 x 66	16.500	--	--	--	--	1	--	--	--	x	0.00	--
	M1-5A	II	CTH G	36 x 36												
	M5-1L	II	--	30 x 30												
126	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
127	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--

3

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
128	D1-2	II	E BRANDYBROOK [A] ROAD	96 x 24	16.000	--	--	--	--	2	--	--	--	x	0.00	--
129	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
130	W16-9P(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	#129	--	x	0.00	--
131	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
132	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
133	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
134	W16-9P(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	#133	--	x	0.00	--
135	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
136	J13-1(3)	II	--	36 x 66	16.500	--	--	--	--	1	--	--	--	x	0.00	--
	M1-5A	II	CTH G	36 x 36	--	--	--	--	--	--	--	--	--	x	0.00	--
	M6-6L	II	--	30 x 30	--	--	--	--	--	--	--	--	--	x	0.00	--
137	R6-2L(2M)	II	--	30 x 36	7.500	--	--	--	--	1	--	--	--	x	0.00	--
138	R2-1(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
139	W3-1(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
140	J1-2(2S)	II	--	48 x 60	20.000	--	--	--	--	1	--	--	--	x	0.00	--
	M1-5A	II	CTH G	24 x 24												
	M5-1L	II	--	21 x 21												
	M2-1	II	--	21 x 15												
	M1-6	II	STH 83	24 x 24												
141	R3-8F(2S)	II	--	36 x 30	7.500	--	--	--	--	1	--	--	--	x	0.00	--
142	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
143	R6-3A(2S)	II	--	30 x 24	5.000	--	--	--	--	--	--	#142	--	x	0.00	--
144	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
145	R3-53R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	#144	--	x	0.00	--
146	J3-2(2S)	II	--	48 x 57	19.000	--	--	--	--	1	--	--	--	x	0.00	--
	M3-3	II	--	24 x 12												
	M1-6	II	STH 83	24 x 24												
	M6-1	II	--	21 x 21												
	M3-1	II	--	24 x 12												
	M1-6	II	STH 83	24 x 24												
	M6-1	II	--	21 x 21												
147	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
148	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
149	W54-60(3)	II	--	36 x 36	--	--	9.000	--	--	--	--	--	MOUNT ON SIGNAL POLE	x	0.00	--
150	J4-1(3)	II	--	36 x 54	13.500	--	--	--	--	1	--	--	--	x	0.00	--
	M3-3	II	--	36 x 18												
	M1-6	II	STH 83	36 x 36												
151	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
152	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
153	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
154	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
155	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
156	W1-2L(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
157	W1-2L(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
158	R5-1A(3)	II	--	42 x 30	8.750	--	--	--	--	--	--	#156	BACK OF #156	x	0.00	--
159	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
160	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
161	R5-1A(3)	II	--	42 x 30	8.750	--	--	--	--	1	--	--	--	x	0.00	--
162	J4-2(3)	II	--	36 x 90	22.500	--	--	--	--	1	--	--	--	x	0.00	--
	M3-1	II	--	36 x 18												
	M1-6	II	STH 83	36 x 36												
	M1-5A	II	CTH G	36 x 36												

TYPE I & II PERMANENT SIGNING -

CATEGORY CODE 0010

1330-18-70 STH 83

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
163	R5-1(3)	II	--	36 x 36	9.000	--	--	--	--	1	--	--	--	x	0.00	--
164	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
165	W16-7L(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	#164	--	x	0.00	--
166	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
167	R6-3A(2S)	II	--	30 x 24	5.000	--	--	--	--	--	--	#166	--	x	0.00	--
168	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
169	J12-1(3)	II	--	36 x 66	16.500	--	--	--	--	1	--	--	--	x	0.00	--
	M1-5A	II	--	36 x 36												
	M5-1R	II	--	30 x 30												
170	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
171	W16-7R(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
172	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
173	W16-7L(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	#172	--	x	0.00	--
174	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
175	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	1	--	--	MOUNT ON LIGHT POLE	x	0.00	--
176	R6-2L(2M)	II	--	30 x 36	7.500	--	--	--	--	1	--	--	--	x	0.00	--
177	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
178	R5-1A(3)	II	--	42 x 30	8.750	--	--	--	--	1	--	--	--	x	0.00	--
179	J13-1(3)	II	--	36 x 66	16.500	--	--	--	--	1	--	--	--	x	0.00	--
	M1-5A	II	CTH G	36 x 36												
	M6-1	II	--	30 x 30												
180	R5-1(3)	II	--	36 x 36	9.000	--	--	--	--	--	--	#179	BACK OF #179	x	0.00	--
181	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
182	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
183	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
184	D7-68	II	ROAD TO GLACIAL DRUMLIN STATE TRAIL 1/2 MILE	78 x 42	22.750	--	--	--	--	2	--	--	--	x	0.00	--
185	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
186	D1-2	II	[A] E BRANDYBROOK ROAD	96 x 24	16.000	--	--	--	--	2	--	--	--	x	0.00	--
187	J1-1(3)	II	--	36 x 57	14.250	--	--	--	--	1	--	--	--	x	0.00	--
	M2-1	II	--	30 x 21												
	M1-5A	II	CTH G	36 x 36												
188	D1-2	II	W BRANDYBROOK [A] ROAD	94 x 24	15.667	--	--	--	--	2	--	--	--	x	0.00	--
189	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
190	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
191	R6-2L(2M)	II	--	30 x 36	7.500	--	--	--	--	1	--	--	--	x	0.00	--
192	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
193	R5-1A(3)	II	--	42 x 30	8.750	--	--	--	--	1	--	--	--	x	0.00	--
194	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
195	W16-7R(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
196	W11-2(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
197	W16-7L(3)	II	--	30 x 18	--	--	3.750	--	--	--	--	#196	--	x	0.00	--
198	R5-1(3)	II	--	36 x 36	9.000	--	--	--	--	--	--	#196	BACK OF #196	x	0.00	--
199	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
200	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
201	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
202	R6-3(2S)	II	--	30 x 24	5.000	--	--	--	--	--	--	#201	--	x	0.00	--
203	R6-2L(2M)	II	--	30 x 36	7.500	--	--	--	--	1	--	--	--	x	0.00	--

3

SHEET 5 OF 15

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.]	x	H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
204	W11-2(3)	II	--	36	x	36	--	--	9.000	--	--	--	--	--	MOUNT ON LIGHT POLE		x		0.00	--
205	W16-7R(3)	II	--	30	x	18	--	--	3.750	--	--	--	--	--	MOUNT ON LIGHT POLE		x		0.00	--
206	W11-2(3)	II	--	36	x	36	--	--	9.000	--	--	1	--	--	--		x		0.00	--
207	W16-7L(3)	II	--	30	x	18	--	--	3.750	--	--	--	--	#206	--		x		0.00	--
208	R5-1(3)	II	--	36	x	36	9.000	--	--	--	--	--	--	#206	BACK OF #206		x		0.00	--
209	R1-1(3)	II	--	36	x	36	7.460	--	--	--	--	1	--	--	--		x		0.00	--
210	R6-3(2S)	II	--	30	x	24	5.000	--	--	--	--	--	--	#209	--		x		0.00	--
211	R6-2L(2M)	II	--	30	x	36	7.500	--	--	--	--	1	--	--	--		x		0.00	--
212	R2-1(3)	II	45 MPH	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--
213	R2-1(3)	II	45 MPH	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--
214	R6-2R(2S)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
215	R7-1D(3)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
216	R5-1(3)	II	--	36	x	36	9.000	--	--	--	--	1	--	--	--		x		0.00	--
217	R4-7(3)	II	--	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--
218	R2-1(3)	II	35 MPH	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--
219	R2-1(3)	II	35 MPH	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--
220	R7-1D(3)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
221	R7-1D(3)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
222	R5-1A(2S)	II	--	36	x	24	6.000	--	--	--	--	1	--	--	--		x		0.00	--
223	W11-2(2S)	II	--	30	x	30	--	--	6.250	--	--	1	--	--	--		x		0.00	--
224	W16-9P(2M)	II	--	30	x	18	--	--	3.750	--	--	--	--	#223	--		x		0.00	--
225	W11-2(2S)	II	--	30	x	30	--	--	6.250	--	--	1	--	--	--		x		0.00	--
226	W16-9P(2M)	II	--	30	x	18	--	--	3.750	--	--	--	--	#226	--		x		0.00	--
227	R2-1(2S)	II	35 MPH	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
228	R2-1(2S)	II	35 MPH	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
229	W11-2(2S)	II	--	30	x	30	--	--	6.250	--	--	1	--	--	--		x		0.00	--
230	W16-7L(2M)	II	--	30	x	18	--	--	3.750	--	--	--	--	#229	--		x		0.00	--
231	R5-1(2S)	II	--	30	x	30	6.250	--	--	--	--	--	--	#229	BACK OF #229		x		0.00	--
232	R1-1(3)	II	--	36	x	36	7.460	--	--	--	--	1	--	--	--		x		0.00	--
233	R6-3(2S)	II	--	30	x	24	5.000	--	--	--	--	--	--	#232	--		x		0.00	--
234	R6-2L(2S)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
235	R7-1D(3)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
236	W11-2(2S)	II	--	30	x	30	--	--	6.250	--	--	1	--	--	--		x		0.00	--
237	W16-7L(2M)	II	--	30	x	18	--	--	3.750	--	--	--	--	#236	--		x		0.00	--
238	R5-1(2S)	II	--	30	x	30	6.250	--	--	--	--	--	--	#236	BACK OF #236		x		0.00	--
239	R1-1(3)	II	--	36	x	36	7.460	--	--	--	--	1	--	--	--		x		0.00	--
240	R6-3(2S)	II	--	30	x	18	3.750	--	--	--	--	--	--	#239	--		x		0.00	--
241	R6-2L(2S)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
242	R4-7(2S)	II	--	24	x	30	5.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE		x		0.00	--
243	R4-7(2S)	II	--	24	x	30	5.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE		x		0.00	--
244	R6-2R(2S)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
245	W11-2(2S)	II	--	30	x	30	--	--	6.250	--	--	1	--	--	--		x		0.00	--
246	W16-7L(2M)	II	--	30	x	18	--	--	3.750	--	--	--	--	#245	--		x		0.00	--
247	R5-1(2S)	II	--	30	x	30	6.250	--	--	--	--	--	--	#245	BACK OF #245		x		0.00	--
248	R4-7(2S)	II	--	24	x	30	5.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE		x		0.00	--
249	R4-7(2S)	II	--	24	x	30	5.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE		x		0.00	--
250	R1-1(3)	II	--	36	x	36	7.460	--	--	--	--	1	--	--	--		x		0.00	--
251	R6-3(2S)	II	--	30	x	18	3.750	--	--	--	--	--	--	#250	--		x		0.00	--
252	R6-2L(2S)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
253	R7-1D(3)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--

TYPE I & II PERMANENT SIGNING - CATEGORY CODE 0010 1330-18-70 STH 83

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
254	D7-95R	II	GLACIAL DRUMLIN STATE TRAIL [A]	78 x 36	19.500	--	--	--	--	2	--	--	--	x	0.00	--
255	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
256	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#255	--	x	0.00	--
257	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	--	--	#255	BACK OF #255	x	0.00	--
258	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
259	R2-1(2S)	II	35 MPH	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
260	R2-1(2S)	II	35 MPH	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
261	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
262	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
263	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#262	--	x	0.00	--
264	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	--	--	#262	BACK OF #262	x	0.00	--
265	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
266	R6-3(2S)	II	--	30 x 18	3.750	--	--	--	--	--	--	#265	--	x	0.00	--
267	R6-2L(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
268	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
269	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
270	R6-3A(2S)	II	--	30 x 24	5.000	--	--	--	--	--	--	#269	--	x	0.00	--
271	R6-2L(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
272	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
273	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
274	R2-1(2S)	II	35 MPH	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
275	R2-1(2S)	II	35 MPH	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
276	R2-1(2S)	II	35 MPH	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
277	R2-1(2S)	II	35 MPH	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
278	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
279	D7-95L	II	GLACIAL DRUMLIN [A] STATE TRAIL	78 x 36	19.500	--	--	--	--	2	--	--	--	x	0.00	--
280	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
281	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#280	--	x	0.00	--
282	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	--	--	#280	BACK OF #280	x	0.00	--
283	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
284	R6-2L(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
285	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
286	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#285	--	x	0.00	--
287	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
288	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
289	J1-1(2S)	II	--	24 x 39	6.500	--	--	--	--	1	--	--	--	x	0.00	--
	M2-1	II	--	21 x 15												
	M1-4	II	USH 18	24 x 24												
290	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
291	W5-52R(2S)	II	--	12 x 36	--	--	3.000	--	--	1	--	--	4' MOUNTING HEIGHT	x	0.00	--
292	W5-52L(2S)	II	--	12 x 36	--	--	3.000	--	--	1	--	--	4' MOUNTING HEIGHT	x	0.00	--
293	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
294	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
295	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#294	--	x	0.00	--
296	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	--	--	#294	BACK OF #294	x	0.00	--
297	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
298	R6-3A(2S)	II	--	30 x 24	5.000	--	--	--	--	--	--	#297	--	x	0.00	--
299	R6-2L(2S)	II	--	30 x 24	5.000	--	--	--	--	1	--	--	--	x	0.00	--

3

TYPE I & II PERMANENT SIGNING -

CATEGORY CODE 0010

1330-18-70 STH 83

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
300	W2-6(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
301	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
302	W13-1(2S)	II	15 MPH	18 x 18	--	--	2.250	--	--	--	--	#300	--	x	0.00	--
303	W2-6(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
304	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
305	W13-1(2S)	II	15 MPH	18 x 18	--	--	2.250	--	--	--	--	#303	--	x	0.00	--
306	I55-56	II	--	-- x --	--	--	--	1	1	1	--	--	--	x	0.00	--
307	J1-2(2S)	II	--	24 x 60	10.000	--	--	--	--	1	--	--	--	x	0.00	--
	M3-3	II	--	24 x 12												
	M1-6	II	STH 83	24 x 24												
	M1-5A	II	CTH G	24 x 24												
308	W5-52R(2S)	II	--	12 x 36	--	--	3.000	--	--	1	--	--	4' MOUNTING HEIGHT	x	0.00	--
309	W5-52L(2S)	II	--	12 x 36	--	--	3.000	--	--	1	--	--	4' MOUNTING HEIGHT	x	0.00	--
310	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
311	D1-3	II	[A] HARTLAND [A] DOUSMAN WAUKESHA [A]	72 x 42	21.000	--	--	--	--	2	--	--	--	x	0.00	--
312	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	1	--	--	--	x	0.00	--
313	W12-1D(2S)	II	--	24 x 24	--	--	4.000	--	--	1	--	--	2' MOUNTING HEIGHT	x	0.00	--
314	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	#315	--	x	0.00	--
315	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	--	--	#314	--	x	0.00	--
316	W3-2(2S)	II	--	36 x 36	--	--	9.000	--	--	--	--	--	MOUNT ON UPRIGHT OF S-67-946 16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
317	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
318	R3-53R(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
319	--	I	NORTH [83] WEST [18] [ARROW]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-67-946	7 x 9	63.00	--
320	--	I	NORTH [83] EAST [ARROW] [18]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-67-946	7 x 9	63.00	--
321	J13-1(2S)	II	--	24 x 45	7.500	--	--	--	--	1	--	--	--	x	0.00	--
	M1-5A	II	CTH G	24 x 24												
	M6-1	II	--	21 x 21												
322	W8-73(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
323	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
324	I2-3	II	WALES POPULATION 2,549	60 x 24	10.000	--	--	--	--	2	--	--	--	x	0.00	--
325	R2-1(2S)	II	35 MPH	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
326	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
327	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	--	--	#325	BACK OF #325	x	0.00	--
328	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
329	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
330	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	1	--	--	--	x	0.00	--
331	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
332	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE	x	0.00	--
333	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
334	R3-53R(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
335	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	1	--	--	--	x	0.00	--

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
336	J4-1(2S)	II	--	24 x 36	6.000	--	--	--	--	1	--	--	--	x	0.00	--
	M3-3	II	--	24 x 12												
	M1-6	II	STH 83	24 x 24												
337	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	#335	--	x	0.00	--
338	D2-1	II	MUKWONAGO 10	84 x 15	8.750	--	--	--	--	2	--	--	--	x	0.00	--
339	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
340	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	--	1	--	--	x	0.00	--
341	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#340	--	x	0.00	--
342	R1-2(S)	II	--	36 x 31	3.880	--	--	--	--	--	1	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
343	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	#342	4' MOUNTING HEIGHT	x	0.00	--
344	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	--	1	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
345	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	--	--	--	#344	5.25' MOUNTING HEIGHT	x	0.00	--
346	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	--	1	--	--	x	0.00	--
347	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#346	--	x	0.00	--
348	D1-1	II	[18] EAST [ARROW]	66 x 24	11.000	--	--	--	--	--	2	--	--	x	0.00	--
349	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	--	1	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
350	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	#349	4' MOUNTING HEIGHT	x	0.00	--
351	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	--	1	--	--	x	0.00	--
352	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#351	--	x	0.00	--
353	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	--	1	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
354	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	--	--	--	#353	5.25' MOUNTING HEIGHT	x	0.00	--
355	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	1	--	--	x	0.00	--
356	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#355	--	x	0.00	--
357	D1-1	II	[83] NORTH [ARROW]	66 x 24	11.000	--	--	--	--	--	2	--	--	x	0.00	--
358	J4-1(2S)	II	--	24 x 36	6.000	--	--	--	--	1	--	--	--	x	0.00	--
	M3-1	II	--	24 x 12												
	M1-6	II	STH 83	24 x 24												
359	D2-3	II	DELAFIELD 3 HARTLAND 7 HARTFORD 23	72 x 36	18.000	--	--	--	--	2	--	--	--	x	0.00	--
360	W8-73(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
361	D1-4	II	[A] WALES MUKWONAGO [A] WAUKESHA DOUSMAN [A]	84 x 54	31.500	--	--	--	--	2	--	--	--	x	0.00	--
362	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
363	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	#364	4' MOUNTING HEIGHT	x	0.00	--
364	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	--	1	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
365	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	--	1	--	--	x	0.00	--
366	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#365	--	x	0.00	--
367	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	--	1	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
368	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	--	--	--	#367	5.25' MOUNTING HEIGHT	x	0.00	--
369	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	--	1	--	--	x	0.00	--
370	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#369	--	x	0.00	--
371	D1-1	II	[18] WEST [ARROW]	66 x 24	11.000	--	--	--	--	--	2	--	--	x	0.00	--
372	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	--	1	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
373	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	--	--	#372	4' MOUNTING HEIGHT	x	0.00	--
374	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	--	1	--	SHEET 35 OF 38	x	0.00	--
375	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#374	SHEET 35 OF 38	x	0.00	--
376	R1-2(2S)	II	--	36 x 31	3.880	--	--	--	--	--	1	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--

TYPE I & II PERMANENT SIGNING - CATEGORY CODE 0010 1330-18-70 STH 83

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
377	R1-54(2S)	II	--	24 x 15	2.500	--	--	--	--	--	--	#376	5.25' MOUNTING HEIGHT	x	0.00	--
378	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	--	1	--	--	x	0.00	--
379	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#378	--	x	0.00	--
380	D1-1	II	[83] SOUTH [ARROW]	66 x 24	11.000	--	--	--	--	--	2	--	--	x	0.00	--
381	R6-1R(2S)	II	--	36 x 12	3.000	--	--	--	--	--	2	--	--	x	0.00	--
382	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	#381	4' MOUNTING HEIGHT	x	0.00	--
383	R6-1R(2S)	II	--	36 x 12	3.000	--	--	--	--	--	2	--	--	x	0.00	--
384	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	#383	4' MOUNTING HEIGHT	x	0.00	--
385	R6-1R(2S)	II	--	36 x 12	3.000	--	--	--	--	--	2	--	--	x	0.00	--
386	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	#385	4' MOUNTING HEIGHT	x	0.00	--
387	R6-1R(2S)	II	--	36 x 12	3.000	--	--	--	--	--	2	--	--	x	0.00	--
388	R6-4B(2S)	II	--	60 x 24	10.000	--	--	--	--	--	--	#387	4' MOUNTING HEIGHT	x	0.00	--
389	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
390	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
391	R59-51(3)	II	--	48 x 48	16.000	--	--	--	--	1	--	--	--	x	0.00	--
392	W2-50(4)	II	--	48 x 48	--	--	16.000	--	--	1	--	--	--	x	0.00	--
393	W2-50P(4)	II	--	48 x 18	--	--	6.000	--	--	--	--	#392	--	x	0.00	--
394	W2-50(4)	II	--	48 x 48	--	--	16.000	--	--	1	--	--	--	x	0.00	--
395	W2-50P(4)	II	--	48 x 18	--	--	6.000	--	--	--	--	#394	--	x	0.00	--
396	W2-6(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
397	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
398	W13-1(3)	II	15 MPH	24 x 24	--	--	4.000	--	--	--	--	#396	--	x	0.00	--
399	W2-6(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
400	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
401	W13-1(3)	II	15 MPH	24 x 24	--	--	4.000	--	--	--	--	#399	--	x	0.00	--
402	R7-1D(3)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
403	J2-2(3)	II	--	72 x 102	51.000	--	--	--	--	2	--	--	--	x	0.00	--
	MB4-1	II	--	36 x 18												
	MB3-2	II	--	36 x 18												
	M1-1	II	IH 94	36 x 36												
	MB5-1L	II	--	30 x 30												
	MB4-1	II	--	36 x 18												
	MB3-4	II	--	36 x 18												
	M1-1	II	IH 94	36 x 36												
	MB5-1R	II	--	30 x 30												
404	R6-2R(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
405	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
406	R3-53R(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
407	--	I	SOUTH [83] EAST [18] [ARROW]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-67-948	7 x 9	63.00	--
408	--	I	SOUTH [83] WEST [ARROW] [18]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-67-948	7 x 9	63.00	--
409	W3-2(2S)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
410	**NOT USED*	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
411	J3-1(3)	II	--	36 x 84	21.000	--	--	--	--	1	--	--	--	x	0.00	--
	MB4-1	II	--	36 x 18												
	M1-1	II	IH 94	36 x 36												
	MB6-1	II	--	30 x 30												

3

SHEET 10 OF 15

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.]	x	H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
412	R5-1A(3)	II	--	42	x	30	8.750	--	--	--	--	1	--	--	--		x		0.00	--
413	W11-2(3)	II	--	36	x	36	--	--	9.000	--	--	1	--	--	--		x		0.00	--
414	W16-7R(3)	II	--	30	x	18	--	--	3.750	--	--	--	--	#413	--		x		0.00	--
415	W11-2(3)	II	--	36	x	36	--	--	9.000	--	--	1	--	--	--		x		0.00	--
416	W16-7L(3)	II	--	30	x	18	--	--	3.750	--	--	--	--	#415	--		x		0.00	--
417	R5-1(3)	II	--	36	x	36	9.000	--	--	--	--	--	--	#415	BACK OF #415		x		0.00	--
418	R4-7(3)	II	--	36	x	48	12.000	--	--	--	--	--	--	#413	BACK OF #413		x		0.00	--
419	R4-7(3)	II	--	36	x	48	12.000	--	--	--	--	--	--	#423	BACK OF #423		x		0.00	--
420	R1-1(3)	II	--	36	x	36	7.460	--	--	--	--	1	--	--	--		x		0.00	--
421	R6-3(2S)	II	--	30	x	24	5.000	--	--	--	--	--	--	#420	--		x		0.00	--
422	R6-2L(2M)	II	--	30	x	36	7.500	--	--	--	--	1	--	--	--		x		0.00	--
423	W11-2(3)	II	--	36	x	36	--	--	9.000	--	--	1	--	--	--		x		0.00	--
424	W16-7R(3)	II	--	30	x	18	--	--	3.750	--	--	--	--	#423	--		x		0.00	--
425	W11-2(3)	II	--	36	x	36	--	--	9.000	--	--	1	--	--	--		x		0.00	--
426	W16-7L(3)	II	--	30	x	18	--	--	3.750	--	--	--	--	#425	--		x		0.00	--
427	R5-1(3)	II	--	36	x	36	9.000	--	--	--	--	--	--	#425	BACK OF #425		x		0.00	--
428	R1-1(3)	II	--	36	x	36	7.460	--	--	--	--	1	--	--	--		x		0.00	--
429	R6-3(2S)	II	--	30	x	24	5.000	--	--	--	--	--	--	#428	--		x		0.00	--
430	R5-98(2S)	II	--	42	x	24	7.000	--	--	--	--	1	--	--	--		x		0.00	--
431	R6-2L(2M)	II	--	30	x	36	7.500	--	--	--	--	1	--	--	--		x		0.00	--
432	J1-1(3)	II	--	36	x	57	14.250	--	--	--	--	1	--	--	--		x		0.00	--
	M2-1	II	--	30	x	21														
	M1-4	II	USH 18	36	x	36														
433	--	II	TEN CHIMNEYS ...	--	x	--	--	--	--	2	1	2	--	--	--		x		0.00	--
434	**NOT USED*	--	--	--	x	--	--	--	--	--	--	--	--	--	--		x		0.00	--
435	R2-1(3)	II	45 MPH	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--
436	R4-7(3)	II	--	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--
437	R4-7(3)	II	--	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--
438	R7-1D(3)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
439	R6-2L(2M)	II	--	30	x	36	7.500	--	--	--	--	1	--	--	--		x		0.00	--
440	R5-1A(3)	II	--	42	x	30	8.750	--	--	--	--	1	--	--	--		x		0.00	--
441	R5-1A(3)	II	--	42	x	30	8.750	--	--	--	--	1	--	--	--		x		0.00	--
442	R5-1(3)	II	--	36	x	36	9.000	--	--	--	--	1	--	--	--		x		0.00	--
443	R1-1(3)	II	--	36	x	36	7.460	--	--	--	--	1	--	--	--		x		0.00	--
444	R6-3A(2S)	II	--	36	x	24	6.000	--	--	--	--	--	--	#443	--		x		0.00	--
445	**NOT USED*	--	--	--	x	--	--	--	--	--	--	--	--	--	--		x		0.00	--
446	R2-1(3)	II	45 MPH	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--
447	R7-1D(3)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
448	R10-64	II	--	--	x	--	--	--	--	1	1	1	--	--	--		x		0.00	--
449	R5-1(3)	II	--	36	x	36	9.000	--	--	--	--	1	--	--	--		x		0.00	--
450	R1-1(3)	II	--	36	x	36	7.460	--	--	--	--	1	--	--	--		x		0.00	--
451	R6-3A(2S)	II	--	30	x	24	5.000	--	--	--	--	--	--	#450	--		x		0.00	--
452	R7-1D(3)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
453	R3-20L(3)	II	--	36	x	54	13.500	--	--	--	--	1	--	--	--		x		0.00	--
454	R7-1D(3)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
455	R6-2L(2M)	II	--	30	x	36	7.500	--	--	--	--	1	--	--	--		x		0.00	--
456	R4-7(3)	II	--	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--
457	R4-7(3)	II	--	36	x	48	12.000	--	--	--	--	1	--	--	--		x		0.00	--

TYPE I & II PERMANENT SIGNING - CATEGORY CODE 0010 1330-18-70 STH 83

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
458	W6-2(2S)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
459	R5-1A(3)	II	--	42 x 30	8.750	--	--	--	--	1	--	--	--	x	0.00	--
460	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
461	R5-1(3)	II	--	36 x 36	9.000	--	--	--	--	--	--	#460	BACK OF #460	x	0.00	--
462	W6-3(2S)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
463	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
464	W5-54(2S)	II	--	18 x 18	--	--	2.250	--	--	--	--	#463	--	x	0.00	--
465	W6-1(2S)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
466	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
467	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
468	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--
469	W1-7(2S)	II	--	48 x 24	--	--	8.000	--	--	1	--	--	--	x	0.00	--
470	W14-3(2S)	II	--	48 x 36	--	--	6.000	--	--	1	--	--	--	x	0.00	--
471	J1-3(2S)	II	--	72 x 39	19.500	--	--	--	--	2	--	--	--	x	0.00	--
	M2-1	II	--	21 x 15												
	M1-6	II	STH 83	24 x 24												
	M2-1	II	--	21 x 15												
	M1-5A	II	CTH DE	24 x 24												
	M4-6	II	--	24 x 12												
	M1-5A	II	CTH E	24 x 24												
472	W2-6(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
473	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
474	W13-1(3)	II	15 MPH	24 x 24	--	--	4.000	--	--	--	--	#472	--	x	0.00	--
475	D1-1	I	[DE] SUNSET DRIVE NORTH [83] [ARROW] SOUTH [83]	-- x --	--	--	--	--	--	2	--	--	--	10 x 7	70.00	--
476	W3-2(2S)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
477	R1-1(3)	II	--	36 x 36	7.460	--	--	--	--	1	--	--	--	x	0.00	--
478	R4-7(2S)	II	--	24 x 30	5.000	--	--	--	--	1	--	--	--	x	0.00	--
479	W5-54(2S)	II	--	18 x 18	--	--	2.250	--	--	--	--	#478	--	x	0.00	--
480	--	II	WAUKESHA CO ADOPT ...	-- x --	--	--	--	2	1	2	--	--	--	x	0.00	--
481	--	II	ALL SAINTS CHURCH	-- x --	--	--	--	--	1	--	--	#480	--	x	0.00	--
482	W21-1A	II	--	-- x --	--	--	--	--	1	--	--	#480	--	x	0.00	--
483	J4-1(2S)	II	--	24 x 36	6.000	--	--	--	1	--	--	--	--	x	0.00	--
	M3-4	II	--	24 x 12												
	M1-5A	II	CTH E	24 x 24												
484	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	--	--	#483	BACK OF #483	x	0.00	--
485	W6-3(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
486	W2-2R(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
487	W11-2(2S)	II	--	30 x 30	--	--	6.250	--	--	1	--	--	--	x	0.00	--
488	W16-7L(2M)	II	--	30 x 18	--	--	3.750	--	--	--	--	#487	SHEET 8 OF 38	x	0.00	--
489	R4-7(3)	II	--	36 x 48	12.000	--	--	--	--	1	--	--	SHEET 8 OF 38	x	0.00	--
490	W5-54(2S)	II	--	18 x 18	--	--	2.250	--	--	--	--	#489	--	x	0.00	--
491	J4-1(2S)	II	--	24 x 24	4.000	--	--	--	--	1	--	--	--	x	0.00	--
	M1-5A	II	CTH DE	24 x 24	--	--	--	--	--	--	--	--	--	x	0.00	--
492	R5-1(2S)	II	--	30 x 30	6.250	--	--	--	--	--	--	#491	BACK OF #491	x	0.00	--
493	W3-2(2S)	II	--	36 x 36	--	--	9.000	--	--	--	--	--	16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
494	W6-3(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
495	R2-1(3)	II	45 MPH	36 x 48	12.000	--	--	--	--	1	--	--	--	x	0.00	--

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.] x H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.] x H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
496	D1-1	I	[E] SOUTH NORTH [83] [ARROW] [83]	-- x --	--	--	--	--	--	4	--	--	--	10 x 7	70.00	--
497	W2-6(3)	II	--	36 x 36	--	--	9.000	--	--	1	--	--	--	x	0.00	--
498	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
499	W13-1(3)	II	15 MPH	24 x 24	--	--	4.000	--	--	--	--	#497	--	x	0.00	--
500	J2-3(2S)	II	--	72 x 39	19.500	--	--	--	--	2	--	--	--	x	0.00	--
	M2-1	II	--	21 x 15												
	M1-6	II	STH 83	24 x 24												
	M2-1	II	--	21 x 15												
	M1-5A	II	CTH E	24 x 24												
	M4-6	II	--	24 x 12												
	M1-5A	II	CTH DE	24 x 24												
501	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
502	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
503	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
504	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
505	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
506	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
507	--	I	EAST [18] NORTH [83] [ARROW]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-67-947	7 x 9	63.00	--
508	--	I	EAST [18] SOUTH [ARROW] [83]	-- x --	--	--	--	--	--	--	--	--	INSTALL ON S-67-947	7 x 9	63.00	--
509	W3-2(2S)	II	--	36 x 36	--	--	9.000	--	--	--	--	--	MOUNT ON UPRIGHT OF S-67-947 16X16 ORANGE FLAGS INCIDENTAL	x	0.00	--
510	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
511	D1-4	II	[A] WAUKESHA [A] HARTLAND MUKWONAGO [A] WALES	84 x 54	31.500	--	--	--	--	2	--	--	--	x	0.00	--
512	J2-1(2S)	II	--	24 x 69	11.500	--	--	--	--	1	--	--	--	x	0.00	--
	MB4-1	II	--	24 x 12												
	MB3-2	II	--	24 x 12												
	M1-1	II	IH 94	24 x 24												
	MB5-1L	II	--	21 x 21												
513	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
514	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
515	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
516	**NOT USED**	--	--	-- x --	--	--	--	--	--	--	--	--	--	x	0.00	--
517	R3-8DD	II	--	-- x --	--	--	--	1	1	1	--	--	--	x	0.00	--
518	D1-2	II	BLACKWOOD DRIVE [A]	-- x --	--	--	--	2	1	2	--	--	--	x	0.00	--
519	R7-1D(2S)	II	--	18 x 24	3.000	--	--	--	--	1	--	--	--	x	0.00	--
520	J4-1(2S)	II	--	24 x 36	6.000	--	--	--	--	1	--	--	--	x	0.00	--
	M3-2	II	--	24 x 12												
	M1-4	II	USH 18	24 x 24												

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.]	x	H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
521	R5-1(2S)	II	--	30	x	30	6.250	--	--	--	--	--	--	#520	BACK OF #520		x		0.00	--
522	D2-1	II	WAUKESHA 5	72	x	15	7.500	--	--	--	--	2	--	--	--		x		0.00	--
523	R2-1(2S)	II	35 MPH	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
524	R3-8A(2S)	II	--	36	x	30	7.500	--	--	--	--	1	--	--	--		x		0.00	--
525	**NOT USED**	--	--	--	x	--	--	--	--	--	--	--	--	--	--		x		0.00	--
526	W3-2(2S)	II	--	36	x	36	--	--	9.000	--	--	1	--	--	16X16 ORANGE FLAGS INCIDENTAL		x		0.00	--
527	J13-1(2S)	II	--	24	x	45	7.500	--	--	--	--	1	--	--	--		x		0.00	--
	M1-5A	II	CTH G	24	x	24														
	M6-1	II	--	21	x	21														
528	R7-1D(2S)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
529	R4-7(2S)	II	--	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
530	--	I	SOUTH [83] [ARROW]	--	x	--	--	--	--	--	--	--	--	--	INSTALL ON S-67-949	4	x	7.5	30.00	--
531	--	I	WEST [18] NORTH [ARROW] [83]	--	x	--	--	--	--	--	--	--	--	--	INSTALL ON S-67-949	7	x	9	63.00	--
532	J3-1(2S)	II	--	24	x	69	11.500	--	--	--	--	--	--	--	MOUNT ON UPRIGHT OF S-67-949		x		0.00	--
	MB4-1	II	--	24	x	12														
	MB3-4	II	--	24	x	12														
	M1-1	II	IH 94	24	x	24														
	MB6-1	II	--	21	x	21														
533	R7-1D(2S)	II	--	18	x	24	3.000	--	--	--	--	1	--	--	--		x		0.00	--
534	J3-1(2S)	II	--	24	x	69	11.500	--	--	--	--	1	--	--	--		x		0.00	--
	MB4-1	II	--	24	x	12														
	MB3-2	II	--	24	x	12														
	M1-1	II	IH 94	24	x	24														
	MB6-1	II	--	21	x	21														
535	W3-3(2S)	II	--	36	x	36	--	--	9.000	--	--	1	--	--	--		x		0.00	--
536	R7-1D(2S)	II	--	18	x	24	3.000	--	--	--	--	1	--	--	--		x		0.00	--
537	J12-1(2S)	II	--	24	x	45	7.500	--	--	--	--	1	--	--	--		x		0.00	--
	M1-5A	II	CTH G	24	x	24														
	M5-1L	II	--	21	x	21														
538	J2-1(2S)	II	--	24	x	69	11.500	--	--	--	--	1	--	--	--		x		0.00	--
	MB4-1	II	--	24	x	12														
	MB3-4	II	--	24	x	12														
	M1-1	II	IH 94	24	x	24														
	MB5-1R	II	--	21	x	21														
539	R7-1D(2S)	II	--	18	x	24	3.000	--	--	--	--	1	--	--	--		x		0.00	--
540	W2-6(2S)	II	--	30	x	30	--	--	6.250	--	--	1	--	--	--		x		0.00	--
541	**NOT USED**	--	--	--	x	--	--	--	--	--	--	--	--	--	--		x		0.00	--
542	W13-1(2S)	II	15 MPH	18	x	18	--	--	2.250	--	--	--	--	#540	--		x		0.00	--
543	R3-8W(2S)	II	--	54	x	30	11.250	--	--	--	--	2	--	--	--		x		0.00	--
544	R7-1D(2S)	II	--	18	x	24	3.000	--	--	--	--	1	--	--	--		x		0.00	--
545	R1-1F(3)	II	--	36	x	36	--	9.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE		x		0.00	--
546	R1-1F(3)	II	--	36	x	36	--	9.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE		x		0.00	--
547	R1-1F(3)	II	--	36	x	36	-	9.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE		x		0.00	--
548	R1-1F(3)	II	--	36	x	36	--	9.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE		x		0.00	--
549	R7-1D(2S)	II	--	18	x	24	3.000	--	--	--	--	1	--	--	--		x		0.00	--
550	J1-1(2S)	II	--	24	x	39	6.500	--	--	--	--	1	--	--	--		x		0.00	--
	M2-1	II	--	21	x	15														
	M1-6	II	STH 83	24	x	24														

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVE SIGNS TYPE II [EA]	634.0618 WOOD POSTS 4"X 6"x18' [EA]	634.0816 POSTS TUBULAR STEEL 2"X2"X16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION	TYPE I SIGN SIZE W [FT.]	x	H [FT.]	637.1220 SIGNS TYPE I REFLC SH [SF]	STEEL POST TYPE
551	R7-1D(2S)	II	--	18	x	24	3.000	--	--	--	--	1	--	--	--		x		0.00	--
552	R2-1(2S)	II	35 MPH	24	x	30	5.000	--	--	--	--	1	--	--	--		x		0.00	--
553	R2-1(3)	II	45 MPH	36	x	48	12.000	--	--	--	--	--	--	--	MOUNT ON LIGHT POLE; SHT 15 OF 38		x		0.00	--
554	D1-4	II	[A] DOUSMAN HARTLAND [A] [A] WALES MUKWONAGO	84	x	54	31.500	--	--	--	--	2	--	--	SHEET 37 OF 38		x		0.00	--
555	W11-2(2S)	II	--	30	x	30	--	--	6.250	--	--	1	--	--	SHEET 8 OF 38		x		0.00	--
556	W16-7R(2M)	II	--	30	x	18	--	--	3.750	--	--	--	--	#555	SHEET 8 OF 38		x		0.00	--
557	R3-7R(2S)	II	--	30	x	30	6.250	--	--	--	--	1	--	--	SHEET 37 OF 38		x		0.00	--
558	R3-7R(2S)	II	--	30	x	30	6.250	--	--	--	--	1	--	--	SHEET 38 OF 38		x		0.00	--
559	W6-1(2S)	II	--	36	x	36	--	--	9.000	--	--	1	--	--	SHEET 34A OF 38		x		0.00	--
560	R6-2L(2S)	II	--	30	x	36	--	--	7.500	--	--	1	--	--	SHEET 21 OF 38		x		0.00	--
561	W9-1R(3)	II	--	36	x	36	--	--	9.000	--	--	1	--	--	SHEET 26 OF 38		x		0.00	--
562	W4-2R(3)	II	--	36	x	36	--	--	9.000	--	--	1	--	--	SHEET 27 OF 38		x		0.00	--
563	R6-1R	II	--	--	x	--	--	--	--	1	1	--	1	--	SHEET 35 OF 38		x		0.00	--
564	R1-2	II	--	--	x	--	--	--	--	--	1	--	--	#563	SHEET 35 OF 38		x		0.00	--
565	R1-2	II	--	--	x	--	--	--	--	1	1	--	1	--	SHEET 35 OF 38		x		0.00	--
566	R1-54	II	--	--	x	--	--	--	--	--	1	--	--	#565	SHEET 35 OF 38		x		0.00	--
567	W12-1D	II	--	--	x	--	--	--	--	1	1	--	1	--	2' MOUNTING HEIGHT; SHEET 35 OF 38		x		0.00	--
568	W11-2	II	--	--	x	--	--	--	--	1	1	--	1	--	SHEET 35 OF 38		x		0.00	--
569	W16-7R	II	--	--	x	--	--	--	--	--	1	--	--	#568	SHEET 35 OF 38		x		0.00	--
570	D1-1	II	--	--	x	--	--	--	--	1	1	--	1	--	SHEET 35 OF 38		x		0.00	--
	TOTALS						2717.577	36.000	987.750	16	21	364	37	--	--				890.000	--

3

3

REMOVE OVERHEAD SIGN SUPPORTS - MISC QUANTITIES **1330-18-70 STH 83**

LOCATION	REMOVING OVERHEAD SIGN SUPPORT S-67-249 SPV.0105.04 L.S
CTH E EASTBOUND AT STH 83 DUAL LEFT TURN LANE	1
TOTAL	1

SHEET 1 OF 1

PROJECT NO:1330-18-70	HWY:STH 83	COUNTY:WAUKESHA	MISCELLANEOUS QUANTITIES	SHEET:	E

3

3

REMOVING CONCRETE BASES

SIGNAL BASE NO.		204.0195 REMOVING CONCRETE BASES EACH
CB1		1
SB1		1
SB2		1
SB3		1
SB4		1
SB5		1
SB6		1
SB7		1
SB8		1
SB9		1
	TOTAL	10

REMOVE TRAFFIC SIGNALS

LOCATION		SPV.0105.07 REMOVE TRAFFIC SIGNALS L.S.
USH 18 & STH 83 WAUKESHA COUNTY		1
	TOTAL	1

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION		SPV.0105.11 REMOVE LOOP WIRE & LEAD-IN CABLE L.S.
USH 18 & STH 83 WAUKESHA COUNTY		1
	TOTAL	1

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVE PULL BOX EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
TOTAL	14

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION		661.0200.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
USH 18 & STH 83 WAUKESHA COUNTY		1
	TOTAL	1

TEMPORARY VEHICULAR VIDEO DETECTION SYSTEM FOR INTERSECTIONS

LOCATION		SPV.0105.09 TEMPORARY VEHICULAR VIDEO DETECTION FOR INTERSECTIONS L.S.
USH 18 & STH 83 WAUKESHA COUNTY		1
	TOTAL	1

STH 83 & CTH DE/ CTH E
1330-18-70
CATEGORY 0010

3

REMOVING CONCRETE BASES

SIGNAL BASE NO.	204.0195 REMOVING CONCRETE BASES EACH
CB1	1
SB1	1
SB2	1
SB3	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
TOTAL	11

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	SPV.0105.12 REMOVE LOOP WIRE & LEAD-IN CABLE L.S.
STH 83 & CTH DE/CTH E WAUKESHA COUNTY	1
TOTAL	1

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVE PULL BOX EACH
PB1	1
PB2	1
PB3	1
PB4	1
PB5	1
PB6	1
PB7	1
PB8	1
PB9	1
PB10	1
PB11	1
PB12	1
PB13	1
PB14	1
PB15	1
PB16	1
PB17	1
PB18	1
TOTAL	18

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.02 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 83 & CTH DE/CTH E WAUKESHA COUNTY	1
TOTAL	1

REMOVE TRAFFIC SIGNALS

LOCATION	SPV.0105.08 REMOVE TRAFFIC SIGNALS L.S.
STH 83 & CTH DE/CTH E WAUKESHA COUNTY	1
TOTAL	1

TEMPORARY VEHICULAR VIDEO DETECTION SYSTEM FOR INTERSECTIONS

LOCATION	SPV.0105.10 TEMPORARY VEHICULAR VIDEO DETECTION FOR INTERSECTIONS L.S.
STH 83 & CTH DE/CTH E WAUKESHA COUNTY	1
TOTAL	1

SHEET 1 OF 1

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC SIGNAL QUANTITIES	SHEET:	E

USH 18 & OAK CREST DR.
1330-18-70
CATEGORY 0010

3

PULL BOXES

PULL BOX NO.	LOCATION*	653.0135 PULL BOXES 24"x36" EACH
PB16	93+92.0', 33.0' RT	1
	TOTAL	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVE LOOP DETECTOR WIRE AND LEAD-IN CABLE

LOCATION	SPV.0105.13 REMOVE LOOP WIRE & LEAD-IN CABLE L.S.
USH 18 & OAK CREST DR. WAUKESHA COUNTY	1
TOTAL	1

CONCRETE BASES

SIGNAL BASE NO.	LOCATION*	654.0101 CONCRETE BASES TYPE 1 EACH
SB9	96+73.0', 46.0' LT	1
SB10	97+51.0', 44.0' LT	1
SB11	97+73.0', 34.0' LT	1
SB12	97+59.0', 49.0' RT	1
SB13	96+73.0', 53.0' RT	1
SB14	96+56.0', 39.0' RT	1
SB15	96+57.0', 42.0' LT	1
	TOTAL	7

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

CONDUIT

LOC.	TO	LOC.	652.0225 CONDUIT NONMET. 2-INCH L.F.
PB1		SB9	10
PB4		SB10	10
PB5		SB11	15
PB11		SB12	12
PB14		SB13	8
PB15		SB14	30
PB17		SB15	30
		TOTAL	115

REMOVE PULL BOXES

PULL BOX NO.	653.0905 REMOVE PULL BOX EACH
PB16	1
TOTAL	1

FACES

SIG. HEAD NO.	SIG. BASE NO.	658.0635 LED MODULES PED COUNTDOWN TIMER 16" EACH	658.0416 PEDESTRIAN SIGNAL FACES 16-INCH EACH
13	SB14	1	1
14	SB15	1	1
15	SB9	1	1
16	SB10	1	1
17	SB11	1	1
18	SB4	1	1
19	SB12	1	1
20	SB13	1	1
TOTAL		8	8

POLES

SIG. BASE NO.	657.0100 PED. BASE EACH	657.0430 10-FOOT STAND. EACH	658.0500 PUSH BUTTON EACH
SB9	1	1	1
SB10	1	1	1
SB11	1	1	1
SB4			1
SB12	1	1	1
SB13	1	1	1
SB14	1	1	1
SB15	1	1	1
TOTAL	7	7	8

TRAFFIC DETECTOR LOOP

LOOP NO.	HOME RUN PB	LOCATION*	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.	652.0900 LOOP DETECTOR SLOTS WIRE L.F.
61	PB16	93+91.0', 6.0' RT	6'X10'	4	ASPHALT	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT	44	354	152	55
						TOTAL	44	354	152	55

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
* * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

USH 18 & OAK CREST DR.
1330-18-70
CATEGORY 0010

3

UNDERGROUND SIGNAL CABLE AND WIRE

LOC.	TO	LOC.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1		SB9	46	
CB1		SB10	132	
CB1		SB11	171	
CB1		SB12	292	
CB1		SB13	187	
CB1		SB14	143	
CB1		SB15	63	
CB1		SB9		46
SB9		SB1		30
SB2		SB10		40
SB10		SB11		68
SB11		SB3		44
SB4		SB12		66
SB12		SB5		32
SB6		SB13		32
SB13		SB14		119
SB14		SB7		55
SB8		SB15		59
SB15		CB1		66
		TOTALS	1033	657

ABOVE GROUND SIGNAL CABLE AND WIRE

LOC.	To	LOC.	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0700 LOOP DETECTOR LEAD-IN CABLE L.F.
SB4		HEAD 18	15	
SB4		BUTTON		6
SB9		HEAD 15	15	
SB9		BUTTON		6
SB10		HEAD 16	15	
SB10		BUTTON		6
SB11		HEAD 17	15	
SB11		BUTTON		6
SB12		HEAD 19	15	
SB12		BUTTON		6
SB13		HEAD 20	15	
SB13		BUTTON		6
SB14		HEAD 13	15	
SB14		BUTTON		6
SB15		HEAD 14	15	
SB15		BUTTON		6
		TOTALS	120	48

TRAFFIC SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.03 SIGNAL MOUNTING HARDWARE L.S.
USH 18 & OAK CREST DR.	1
TOTAL	1

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	TRAFFIC SIGNAL QUANTITIES	SHEET:	E

3

LIGHTING ITEMS GENERAL

SYSTEM	LOCATION	650.8500.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (WisDOT) LS	SPV.0105.15[1] LIGHTING SYSTEM INTEGRATOR LS	SPV.0105.17[1] LIGHTING SYSTEM SURVEY LS
HL-67-TG	STH 83 AND CTH E/DE	1	0.25	0.25
	TOTAL 0040	1	0.25	0.25

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSWHERE

LIGHTING - PULL BOX GROUNDING

SYSTEM	LOCATION	LABEL	653.0135[1] PULL BOXES STEEL 24x36-INCH EACH	655.0615[1] ELECTRIC WIRE LIGHTING 10 AWG LF	COMMENTS
HL-67-TG	58+80, 45.6' RT	PB100	1	9	USE TAP CONNECTOR
HL-67-TG	650+87.2, 2.14' LT (C.I.M)	PB101	1	9	USE TAP CONNECTOR
HL-67-TG	58+69.75, 43.22' LT	PB102	1	9	USE TAP CONNECTOR
HL-67-TG	652+65.3, 1.79' RT (C.I.M.)	PB103	1	9	USE TAP CONNECTOR
TOTAL 0040			4	36	

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

LIGHTING ITEMS

SYSTEM	SEQUENCE I.D.	LOCATION	645.0105[1] CONCRETE BASES TYPE 5 EACH	655.0610[1] ELECTRICAL WIRE LIGHTING 12 AWG	655.0640[1] ELECTRICAL WIRE LIGHTING 1 AWG LF	656.0200.03 ELECTRICAL SERVICES METER BREAKER PEDESTAL (HL-67-TG) LS	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0715 LUMINAIRIE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 15-FT EACH	659.0802[1] PLAQUES SEQUENCE IDENTIFICATION EACH	659.1120 LUMINAIRIES UTILITY LED B EACH	SPV.0060.07[1] CONCRETE CONTROL CABINET BASES SPECIAL EACH	SPV.0060.06[1] LIGHTING CONTROL CABINET EACH
HL-67-TG		CABINET	- - -	- - -	18	1	- - -	- - -	- - -	5	- - -	1	1
HL-67-TG	ATG1	651+07.36, 73.19' LT	1	150	- - -	- - -	1	1	1	1	1	- - -	- - -
HL-67-TG	ATG2/BTG2	650+56.94, 1.20' LT (C.I.M.)	1	300	- - -	- - -	1	1	2	2	2	- - -	- - -
HL-67-TG	ATG3/BTG3	648+85.0, 1.16' LT (C.I.M.)	1	300	- - -	- - -	1	1	2	2	2	- - -	- - -
HL-67-TG	BTG4	651+10.91, 72.12' RT	1	150	- - -	- - -	1	1	1	1	1	- - -	- - -
HL-67-TG	ATG5/BTG5	61+21.95, 0.81' LT (C.I.M.)	1	300	- - -	- - -	1	1	2	2	2	- - -	- - -
HL-67-TG	ATG6/BTG6	62+95.0, 6.60' LT (C.I.M.)	1	300	- - -	- - -	1	1	2	2	2	- - -	- - -
HL-67-TG	CTG1	57+30.0, 30.19' RT	1	150	- - -	- - -	1	1	1	1	1	- - -	- - -
HL-67-TG	CTG2/DTG2	58+30.0, 0.65' LT (C.I.M.)	1	300	- - -	- - -	1	1	2	2	2	- - -	- - -
HL-67-TG	CTG3	57+42.06, 41.91' LT	1	150	- - -	- - -	1	1	1	1	1	- - -	- - -
HL-67-TG	DTG3	56+03.0, 34.09' LT	1	150	- - -	- - -	1	1	1	1	1	- - -	- - -
HL-67-TG	DTG4	652+59.81, 87.09' LT	1	150	- - -	- - -	1	1	1	1	1	- - -	- - -
HL-67-TG	CTG5/DTG5	652+94.0, 1.88' RT (C.I.M.)	1	300	- - -	- - -	1	1	2	2	2	- - -	- - -
HL-67-TG	CTG6/DTG6	654+42.74, 1.54' RT (C.I.M.)	1	300	- - -	- - -	1	1	2	2	2	- - -	- - -
		TOTAL 0040	13	3000	18	1	13	13	20	25	20	1	1

PLAQUE TEXT: HL-67-TG
TOWN OF GENESEE
2 - 240 VAC WARNING (2 REQUIRED PER LOCATION; METER PEDESTAL AND CABINET DOOR)

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

SYSTEM	LOCATION TO LOCATION	LIGHTING - CONDUIT 652.0225[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	LIGHTING - CONDUIT 652.0235[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
HL-67-TG	HL-67-TG TO PB100	- - -	45
HL-67-TG	PB100 TO ATG1	50	- - -
HL-67-TG	ATG1 TO PB101	75	- - -
HL-67-TG	PB101 TO ATG2/BTG2	35	- - -
HL-67-TG	ATG2/BTG2 TO ATG3/BTG3	175	- - -
HL-67-TG	ATG3/BTG3 TO STUBOUT	15	- - -
HL-67-TG	PB101 TO BTG4	80	- - -
HL-67-TG	BTG4 TO ATG5/BTG5	100	- - -
HL-67-TG	ATG5/BTG5 TO ATG6/BTG6	175	- - -
HL-67-TG	ATG6/BTG6 TO STUBOUT	15	- - -
HL-67-TG	PB100 TO CTG1	160	- - -
HL-67-TG	CTG1 TO STUBOUT	15	- - -
HL-67-TG	PB100 TO CTG2/DTG2	50	- - -
HL-67-TG	CTG2/DTG2 TO PB102	45	- - -
HL-67-TG	PB102 TO CTG3	120	- - -
HL-67-TG	CTG3 TO DTG3	135	- - -
HL-67-TG	DTG3 TO STUBOUT	15	- - -
HL-67-TG	PB102 TO DTG4	50	- - -
HL-67-TG	DTG4 TO PB103	90	- - -
HL-67-TG	PB103 TO CTG5/DTG5	30	- - -
HL-67-TG	CTG5/DTG5 TO CTG6/DTG6	150	- - -
HL-67-TG	CTG6/DTG6 TO STUBOUT	15	
HL-67-TG	PB103 TO CTG7	80	- - -
TOTAL 0040		1675	45

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	LIGHTING - WIRE 655.0620[1] ELECTRIC WIRE LIGHTING 8 AWG LF
HL-67-TG	A/B/N/G	HL-67-TG TO PB100	15	72
HL-67-TG	A/B/N/G	PB100 TO ATG1	50	232
HL-67-TG	A/B/N/G	ATG1 TO PB101	75	332
HL-67-TG	A/B/N/G	PB101 TO ATG2/BTG2	35	172
HL-67-TG	A/B/N/G	ATG2/BTG2 TO ATG3/BTG3	175	740
HL-67-TG	A/B/N/G	PB101 TO BTG4	80	352
HL-67-TG	A/B/N/G	BTG4 TO ATG5/BTG5	100	440
HL-67-TG	A/B/N/G	ATG5/BTG5 TO ATG6/BTG6	175	740
HL-67-TG	C/D/N	HL-67-TG TO PB100	15	54
HL-67-TG	C/N/G	PB100 TO CTG1	160	504
HL-67-TG	C/D/N/G	PB100 TO CTG2/DTG2	50	232
HL-67-TG	C/D/N/G	CTG2/DTG2 TO PB102	45	212
HL-67-TG	C/D/N/G	PB102 TO CTG3	120	512
HL-67-TG	D/N/G	CTG3 TO DTG3	135	435
HL-67-TG	C/D/N/G	PB102 TO DTG4	50	232
HL-67-TG	C/D/N/G	DTG4 TO PB103	90	392
HL-67-TG	C/D/N/G	PB103 TO CTG5/DTG5	30	152
HL-67-TG	C/D/N/G	CTG5/DTG5 TO CTG6/DTG6	150	640
HL-67-TG	C/N/G	PB103 TO CTG7	80	264
TOTAL 0040				6709

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_030002_mq.dgn PLOT DATE : 9/13/2013 8:16:16 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 2.0000 sf / IN.
WISDOT/CADDS SHEET 43

3

MUNICIPAL LIGHTING ITEMS GENERAL

SYSTEM	LOCATION	650.8500.02 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (VILLAGE OF WALES) LS	SPV.0105.15[1] LIGHTING SYSTEM INTEGRATOR LS	SPV.0105.17[1] LIGHTING SYSTEM SURVEY LS
ML-67-VW1	STA 1477+50 - RT	0.2	0.15	0.15
ML-67-VW2	STA 1500+50 - RT	0.2	0.15	0.15
ML-67-VW3	STA 1516+30 - RT	0.2	0.15	0.15
ML-67-VW4	SE QUAD STH 83 & USH 18	0.2	0.15	0.15
HL-67-SU	NE QUAD STH 83 & USH 18	0.2	0.15	0.15
	TOTAL 0040	1	0.75	0.75

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

MUNICIPAL LIGHTING - CONDUIT

SYSTEM	LOCATION TO LOCATION	652.0225[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
ML-67-VW1	ML-67-VW1 TO PB-VW100	- - -	45
ML-67-VW1	PB-VW100 TO BVW1-2	75	- - -
ML-67-VW1	BVW1-2 TO AVW1-2	90	- - -
ML-67-VW1	PB-VW100 TO PB-VW101	40	- - -
ML-67-VW1	PB-VW101 TO AVW1-1/BVW1-1	55	- - -
ML-67-VW1	AVW1-1/BVW1-1 TO AVW1-3/BVW1-3	130	- - -
ML-67-VW1	AVW1-3/BVW1-3 TO AVW1-4/BVW1-4	90	- - -
ML-67-VW1	AVW1-4/BVW1-4 TO PB-VW102	90	- - -
ML-67-VW1	PB-VW102 TO BVW1-5	65	- - -
ML-67-VW1	BVW1-5 TO STUBOUT	15	- - -
ML-67-VW1	PB-VW102 TO AVW1-6/BVW1-6	35	- - -
ML-67-VW1	AVW1-6/BVW1-6 TO STUBOUT	15	- - -
			- - -
ML-67-VW1	PB-VW101 TO CVW1-1/DVW1-1	60	- - -
ML-67-VW1	CVW1-1/DVW1-1 TO CVW1-2/DVW1-2	90	- - -
ML-67-VW1	CVW1-2/DVW1-2 TO CVW1-3/DVW1-3	300	- - -
ML-67-VW1	CVW1-3/DVW1-3 TO CVW1-4	55	- - -
ML-67-VW1	CVW1-4 TO STUBOUT	15	- - -
ML-67-VW1	CVW1-3/DVW1-3 TO PB-V103	105	- - -
ML-67-VW1	PB-V103 TO DVW1-4	65	- - -
ML-67-VW1	DVW1-4 TO STUBOUT	15	- - -
ML-67-VW1	PB-V103 TO CVW1-5/DVW1-5	30	- - -
ML-67-VW1	CVW1-5/DVW1-5 TO CVW1-6/DVW1-6	250	- - -
ML-67-VW1	CVW1-6/DVW1-6 TO PB-VW104	10	- - -
ML-67-VW1	PB-VW104 TO DVW1-7	80	- - -
ML-67-VW1	DVW1-7 TO STUBOUT	15	- - -
ML-67-VW1	PB-VW104 TO CVW1-8/DVW1-8	130	- - -
ML-67-VW1	CVW1-8/DVW1-8 TO STUBOUT	15	- - -
	TOTAL 0040	1935	45

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

MUNICIPAL LIGHTING - PULL BOX GROUNDING

SYSTEM	LOCATION	LABEL	653.0135[1] PULL BOXES STEEL 24x36-INCH EACH	655.0615[1] ELECTRIC WIRE LIGHTING 10 AWG LF	COMMENTS
ML-67-VW1	1477+54.71, 46.50' RT	VW100	1	9	USE TAP CONNECTOR
ML-67-VW1	1477+54.73, 7.13' RT (C.I.M.)	VW101	1	9	USE TAP CONNECTOR
ML-67-VW1	1473+94.07, 7' LT (C.I.M)	VW102	1	9	USE TAP CONNECTOR
ML-67-VW1	1483+04.34, 4.63' LT (C.I.M.)	VW103	1	9	USE TAP CONNECTOR
ML-67-VW1	1485+92.28, 1.08' RT (C.I.M.)	VW104	1	17	VW104 TO C/DVW1-6
	TOTAL 0040		5	53	

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

MUNICIPAL LIGHTING - WIRE

SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	655.0620[1] ELECTRIC WIRE LIGHTING 8 AWG LF
ML-67-VW1	A/B/N/G	ML-67-VW1 TO PB-VW100	10	52
ML-67-VW1	A/B/N/G	PB-VW100 TO BVW1-2	75	320
ML-67-VW1	A/N/G	BVW1-2 TO AVW1-2	90	300
ML-67-VW1	A/B/N/G	PB-VW100 TO PB-VW101	40	184
ML-67-VW1	A/B/N/G	PB-VW101 TO AVW1-1/BVW1-1	55	252
ML-67-VW1	A/B/N/G	AVW1-1/BVW1-1 TO AVW1-3/BVW1-3	130	560
ML-67-VW1	A/B/N/G	AVW1-3/BVW1-3 TO AVW1-4/BVW1-4	90	400
ML-67-VW1	A/B/N/G	AVW1-4/BVW1-4 TO PB-VW102	90	392
ML-67-VW1	B/N/G	PB-VW102 TO BVW1-5	65	219
ML-67-VW1	A/B/N/G	PB-VW102 TO AVW1-6/BVW1-6	35	172
ML-67-VW1	C/D/N	ML-67-VW1 TO PB-VW100	10	39
ML-67-VW1	C/D/N	PB-VW100 TO PB-VW101	40	138
ML-67-VW1	C/D/N/G	PB-VW101 TO CVW1-1/DVW1-1	60	272
ML-67-VW1	C/D/N/G	CVW1-1/DVW1-1 TO CVW1-2/DVW1-2	90	400
ML-67-VW1	C/D/N/G	CVW1-2/DVW1-2 TO CVW1-3/DVW1-3	300	1240
ML-67-VW1	C/N/G	CVW1-3/DVW1-3 TO CVW1-4	55	195
ML-67-VW1	C/D/N/G	CVW1-3/DVW1-3 TO PB-V103	105	452
ML-67-VW1	D/N/G	PB-V103 TO DVW1-4	65	219
ML-67-VW1	C/D/N/G	PB-V103 TO CVW1-5/DVW1-5	30	152
ML-67-VW1	C/D/N/G	CVW1-5/DVW1-5 TO CVW1-6/DVW1-6	250	1040
ML-67-VW1	C/D/N/G	CVW1-6/DVW1-6 TO PB-VW104	10	72
ML-67-VW1	D/N/G	PB-VW104 TO DVW1-7	80	264
ML-67-VW1	C/D/N/G	PB-VW104 TO CVW1-8/DVW1-8	130	552
	TOTAL 0040			7886

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

MUNICIPAL LIGHTING ITEMS - ML-67-VW1

SYSTEM	SEQUENCE I.D.	LOCATION	654.0105[1] CONCRETE BASES TYPE 5 EACH	655.0610[1] WIRE 12 AWG LF	655.0640[1] WIRE 1 AWG LF	656.0200.04 ELECTRICAL SERVICES METER BREAKER PEDESTAL (ML-67-VW1) LS	659.0802[1] PLAQUES SEQUENCE IDENTIFICATION EACH	SPV.0060.07[1] CONCRETE CONTROL CABINET BASES SPECIAL EACH	SPV.0060.06[1] LIGHTING CONTROL CABINET EACH	SPV.0060.10[1] DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT EACH	SPV.0060.11[1] DECORATIVE LIGHT POLE DOUBLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT EACH
ML-67-VW1		CABINET	- - -	- - -	18	1	5	1	1	- - -	- - -
ML-67-VW1	AVW1-1/BVW1-1	1477+00.00, 7.0' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW1	AVW1-2	1476+83.86, 47.81' RT	1	120	- - -	- - -	1	- - -	- - -	1	- - -
ML-67-VW1	BVW1-2	1475+97.41, 48.92' RT	1	120	- - -	- - -	1	- - -	- - -	1	- - -
ML-67-VW1	AVW1-3/BVW1-3	1475+74.00, 1.92' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW1	AVW1-4/BVW1-4	1474+84.5, 0.05' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW1	BVW1-5	1474+5.80, 67.77' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -
ML-67-VW1	AVW1-6/BVW1-6	1473+59.00, 7.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW1	CVW1-1/DVW1-1	1478+13.00, 7.00' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW1	CVW1-2/DVW1-2	1479+01.00, 6.92' RT (C.I.M)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW1	CVW1-3/DVW1-3	1482+00.00, 7.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW1	CVW1-4	1482+06.82, 62.02' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -
ML-67-VW1	DVW1-4	1482+99.40, 67.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -
ML-67-VW1	CVW1-5/DVW1-5	1483+34.00, 0.26' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW1	CVW1-6/DVW1-6	1485+82.0, 1.19' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW1	DVW1-7	1486+31.41, 67.0' RT	1	120	- - -	- - -	1	- - -	- - -	1	- - -
ML-67-VW1	CVW1-8/BVW1-8	1487+20.00, 6.96' RT (C.I.M)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
		TOTAL 0040	16	3120	18	1	31	1	1	6	10

PLAQUE TEXT: ML-67-VWX
VILLAGE OF WALES
CIRCUIT X
2 - 240 VAC WARNING (2 REQUIRED PER LOCATION; METER PEDESTAL AND CABINET DOOR)

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE
2. SUBSTITUTE "X" IN CABINET PLAQUE WITH SYSTEM NUMBER

3

MUNICIPAL LIGHTING ITEMS - ML-67-VW2

SYSTEM	SEQUENCE I.D.	LOCATION	654.0105[1] CONCRETE BASES TYPE 5 EACH	655.0610[1] WIRE 1 2 AWG LF	655.0640[1] WIRE 1 AWG LF	656.0200.05 ELECTRICAL SERVICES METER BREAKER PEDESTAL (ML-67-VW2) LS	659.0802[1] PLAQUES SEQUENCE IDENTIFICATION EACH	SPV.0060.07[1] CONCRETE CONTROL CABINET BASES SPECIAL EACH	SPV.0060.06[1] LIGHTING CONTROL CABINET EACH	SPV.0060.10[1] DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT EACH	SPV.0060.11[1] DECORATIVE LIGHT POLE DOUBLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT EACH
ML-67-VW2		CABINET	- - -	- - -	18	1	5	1	1	- - -	- - -
ML-67-VW2	AVW2-1/BVW2-1	1499+56.00, 7.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW2	AVW2-2	1500+03.13, 57.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -
ML-67-VW2	CVW2-1/DVW2-1	1500+83.00, 7.00' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1
ML-67-VW2	CVW2-2	1500+37.01, 60.05' RT	1	120	- - -	- - -	1	- - -	- - -	1	- - -
		TOTAL 0040	4	720	18	1	11	1	1	2	2

PLAQUE TEXT: ML-67-VWX
VILLAGE OF WALES
CIRCUIT X
2 - 240 VAC WARNING (2 REQUIRED PER LOCATION; METER PEDESTAL AND CABINET DOOR)

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE
2. SUBSTITUTE "X" IN CABINET PLAQUE WITH SYSTEM NUMBER

MUNICIPAL LIGHTING - PULL BOX GROUNDING

SYSTEM	LOCATION	LABEL	653.0135[1] PULL BOXES STEEL 24x36-INCH EACH	655.0615[1] ELECTRIC WIRE LIGHTING 10 AWG LF	COMMENTS
ML-67-VW2	1500+58.48, 53.6' RT	VW200	1	9	USE TAP CONNECTOR
ML-67-VW2	1500+58.96, 7.0' RT (C.I.M.)	VW201	1	9	USE TAP CONNECTOR
ML-67-VW2	1499+80.467, 7.1' LT (C.I.M)	VW202	1	9	USE TAP CONNECTOR
	TOTAL 0040		3	27	

NOTES:
1. ADDITIONAL QUANTITIES LISTE ELSEWHERE

MUNICIPAL LIGHTING - WIRE

SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	655.0620[1] ELECTRIC WIRE LIGHTING 8 AWG LF
ML-67-VW2	A/B/N/G	ML-67-VW2 TO PB-VW200	10	52
ML-67-VW2	A/B/N/G	PB-VW200 TO PB-VW201	50	224
ML-67-VW2	A/B/N/G	PB-VW201 TO PB-VW202	80	344
ML-67-VW2	A/B/N/G	PB-VW202 TO AVW2-1/BVW2-1	25	132
ML-67-VW2	A/N/G	PB-VW202 TO AVW2-2	55	189
ML-67-VW2	C/D/N	ML-67-VW2 TO PB-VW200	10	39
ML-67-VW2	C/D/N	PB-VW200 TO PB-VW201	50	168
ML-67-VW2	C/D/N/G	PB-VW201 CVW2-1/DVW2-1	25	132
ML-67-VW2	C/N/G	PB-VW200 CVW2-2	25	99
	TOTAL 0040			1379

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

MUNICIPAL LIGHTING - CONDUIT

SYSTEM	LOCATION TO LOCATION	652.0225[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
ML-67-VW2	ML-67-VW2 TO PB-VW200	- - -	45
ML-67-VW2	PB-VW200 TO PB-VW201	50	- - -
ML-67-VW2	PB-VW201 TO PB-VW202	80	- - -
ML-67-VW2	PB-VW202 TO AVW2-1/BVW2-1	25	- - -
ML-67-VW2	AVW2-1/BVW2-1 TO STUBOUT	15	- - -
ML-67-VW2	PB-VW202 TO AVW2-2	55	- - -
ML-67-VW2	AVW2-2 TO STUBOUT	15	- - -
			- - -
ML-67-VW2	PB-VW201 CVW2-1/DVW2-1	25	- - -
ML-67-VW2	CVW2-1/DVW2-1 TO STUBOUT	15	- - -
ML-67-VW2	PB-VW200 CVW2-2	25	- - -
ML-67-VW2	CVW2-2 TO STUBOUT	15	- - -
	TOTAL 0040	320	45

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

MUNICIPAL LIGHTING ITEMS - ML-67-VW3

SYSTEM	SEQUENCE I.D.	LOCATION	654.0105[1] CONCRETE BASES TYPE 5 EACH	655.0610[1] WIRE 12 AWG LF	655.0640[1] WIRE 1 AWG LF	656.0200.06 ELECTRICAL SERVICES METER BREAKER PEDESTAL (ML-67-VW3) LS	659.0802[1] PLAQUES SEQUENCE IDENTIFICATION EACH	SPV.0060.07[1] CONCRETE CONTROL CABINET BASES SPECIAL EACH	SPV.0060.06[1] LIGHTING CONTROL CABINET EACH	SPV.0060.08[1] DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 20-FT, 80 WATT EACH	SPV.0060.10[1] DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT EACH	SPV.0060.11[1] DECORATIVE LIGHT POLE DOUBLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT EACH
ML-67-VW3		CABINET	- - -	- - -	18	1	5	1	1	- - -	- - -	- - -
ML-67-VW3	AVW3-1	1515.59.91, 65.00' LT	1	120	- - -	- - -	1	- - -	- - -	- - -	1	- - -
ML-67-VW3	AVW3-2/BVW3-2	1515+29.00, 7.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	1
ML-67-VW3	AVW3-3/BVW3-3	1511+36.00, 7.00' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	1
ML-67-VW3	AVW3-4	1510+99.21, 58.61' RT	1	120	- - -	- - -	1	- - -	- - -	- - -	1	- - -
ML-67-VW3	BVW3-4	1510+52.03, 60.99' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW3	AVW3-5/BVW3-5	1510+16.00, 7.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	1
ML-67-VW3	CVW3-1	1516+08.78, 64.32' RT	1	120	- - -	- - -	1	- - -	- - -	- - -	1	- - -
ML-67-VW3	CVW3-2/DVW3-2	1516+44.00, 7.00' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	1
ML-67-VW3	CVW3-3/DVW3-3	1519+14.00, 7.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	1
ML-67-VW3	DVW3-4	1519+44.73, 61.90' RT	1	120	- - -	- - -	1	- - -	- - -	- - -	1	- - -
ML-67-VW3	CVW3-4	1520+21.84, 59.08' RT	1	120	- - -	- - -	1	- - -	- - -	- - -	1	- - -
ML-67-VW3	CVW3-5/DVW3-5	1520+52.00, 7.00' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	1
		TOTAL 0040	12	2160	18	1	23	1	1	1	5	6

PLAQUE TEXT: ML-67-VWX
VILLAGE OF WALES
CIRCUIT X
2 - 240 VAC WARNING (2 REQUIRED PER LOCATION; METER PEDESTAL AND CABINET DOOR)

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE
2. SUBSTITUTE "X" IN CABINET PLAQUE WITH SYSTEM NUMBER

MUNICIPAL LIGHTING - PULL BOX GROUNDING

SYSTEM	LOCATION	LABEL	653.0135[1] PULL BOXES STEEL 24x36-INCH EACH	655.0615[1] ELECTRIC WIRE LIGHTING 10 AWG LF	COMMENTS
ML-67-VW3	1516+33.3, 52.0' RT	Vw300	1	9	USE TAP CONNECTOR
ML-67-VW3	1516+26.9, 7.1' RT (C.I.M.)	Vw301	1	30	Vw301 TO CVW3-2/DVW3-2
ML-67-VW3	1515+45.5, 7.0' LT (C.I.M.)	Vw302	1	30	Vw302 TO AVW3-2/BVW3-2
ML-67-VW3	1511+15.3, 7.0' RT (C.I.M.)	Vw303	1	30	Vw303 TO AVW3-3/BVW3-3
ML-67-VW3	1510+37.0, 7.0' LT (C.I.M)	Vw304	1	30	Vw304 TO AVW3-5/BVW3-5
ML-67-VW3	1519+08.7, 7.0' LT (c.I.M.)	Vw305	1	15	Vw305 TO CVW3-3/DVW3-3
ML-67-VW3	1520+39.4, 7.0' RT (C.I.M)	Vw306	1	25	Vw306 TO CVW3-5/DVW3-5
	TOTAL 0040		7	169	

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

SYSTEM	LOCATION TO LOCATION	MUNICIPAL LIGHTING - CONDUIT 652.0225[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	 652.0235[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
ML-67-VW3	ML-67-VW1 TO PB-VW300	- - -	45
ML-67-VW3	PB-VW300 TO PB-VW301	50	- - -
ML-67-VW3	PB-VW301 TO PB-VW302	85	- - -
ML-67-VW3	PB-VW302 TO AVW3-1	60	- - -
ML-67-VW3	AVW3-1 TO STUBOUT	15	- - -
ML-67-VW3	PB-VW302 TO AVW3-2/BVW3-2	20	- - -
ML-67-VW3	AVW3-2/BVW3-2 TO AVW3-3/BVW3-3	395	- - -
ML-67-VW3	AVW3-3/BVW3-3 TO PB-VW303	25	- - -
ML-67-VW3	PB-VW303 TO AVW3-4	55	- - -
ML-67-VW3	AVW3-4 TO STUBOUT	15	- - -
ML-67-VW3	PB-VW303 TO PB-VW304	80	- - -
ML-67-VW3	PB-VW304 TO BVW3-4	60	- - -
ML-67-VW3	BVW3-4 TO STUBOUT	15	- - -
ML-67-VW3	PB-VW304 TO AVW3-5/BVW3-5	25	- - -
ML-67-VW3	AVW3-5/BVW3-5 TO STUBOUT	15	- - -
ML-67-VW3	PB-VW300 TO CVW3-1	30	- - -
ML-67-VW3	CVW3-1 TO STUBOUT	15	- - -
ML-67-VW3	PB-VW301 TO CVW3-2/DVW3-2	20	- - -
ML-67-VW3	CVW3-2/DVW3-2 TO PB-VW305	270	- - -
ML-67-VW3	PB-VW305 TO CVW3-3/DVW3-3	10	- - -
ML-67-VW3	PB-VW305 TO DVW3-4	80	- - -
ML-67-VW3	DVW3-4 TO STUBOUT	15	- - -
ML-67-VW3	DVW3-4 TO CVW3-4	80	- - -
ML-67-VW3	CVW3-4 TO STUBOUT	15	- - -
ML-67-VW3	CVW3-3/DVW3-3 TO PB-VW306	130	- - -
ML-67-VW3	PB-VW306 TO CVW3-5/DVW3-5	15	- - -
ML-67-VW3	CVW3-5/DVW3-5 TO STUBOUT	15	- - -
TOTAL 0040		1610	45

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	MUNICIPAL LIGHTING - WIRE 655.0620[1] ELECTRIC WIRE LIGHTING 8 AWG LF
ML-67-VW3	A/B/N/G	ML-67-VW1 TO PB-VW300	15	72
ML-67-VW3	A/B/N/G	PB-VW300 TO PB-VW301	50	224
ML-67-VW3	A/B/N/G	PB-VW301 TO PB-VW302	85	364
ML-67-VW3	A/N/G	PB-VW302 TO AVW3-1	60	204
ML-67-VW3	A/B/N/G	PB-VW302 TO AVW3-2/BVW3-2	20	112
ML-67-VW3	A/B/N/G	AVW3-2/BVW3-2 TO AVW3-3/BVW3-3	395	1620
ML-67-VW3	A/B/N/G	AVW3-3/BVW3-3 TO PB-VW303	25	132
ML-67-VW3	A/N/G	PB-VW303 TO AVW3-4	55	189
ML-67-VW3	A/B/N/G	PB-VW303 TO PB-VW304	80	344
ML-67-VW3	B/N/G	PB-VW304 TO BVW3-4	60	204
ML-67-VW3	A/B/N/G	PB-VW304 TO AVW3-5/BVW3-5	25	132
ML-67-VW3	C/D/N	ML-67-VW1 TO PB-VW300	15	54
ML-67-VW3	C/D/N	PB-VW300 TO PB-VW301	50	168
ML-67-VW3	C/N/G	PB-VW300 TO CVW3-1	30	114
ML-67-VW3	C/D/N/G	PB-VW301 TO CVW3-2/DVW3-2	20	112
ML-67-VW3	C/D/N/G	CVW3-2/DVW3-2 TO PB-VW305	270	1112
ML-67-VW3	C/D/N/G	PB-VW305 TO CVW3-3/DVW3-3	10	72
ML-67-VW3	C/D/N/G	PB-VW305 TO DVW3-4	80	352
ML-67-VW3	C/N/G	DVW3-4 TO CVW3-4	80	270
ML-67-VW3	C/D/N/G	CVW3-3/DVW3-3 TO PB-VW306	130	552
ML-67-VW3	C/D/N/G	PB-VW306 TO CVW3-5/DVW3-5	15	92
TOTAL 0040				6495

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

SYSTEM	LOCATION TO LOCATION	MUNICIPAL LIGHTING - CONDUIT 652.0225[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	 652.0235[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	 652.0605 CONDUIT SPECIAL 2-INCH LF
ML-67-VW4	ML-67-VW4 TO PB-VW400	- - -	45	- - -
ML-67-VW4	PB-VW400 TO AVW4-1/BVW4-1	70	- - -	- - -
ML-67-VW4	AVW4-1/BVW4-1 TO AVW4-2/BVW4-2	90	- - -	- - -
ML-67-VW4	AVW4-2/BVW4-2 TO AVW4-3/BVW4-3	90	- - -	- - -
ML-67-VW4	AVW4-3/BVW4-3 TO PB-VW401	95	- - -	- - -
ML-67-VW4	PB-VW401 TO AVW4-4	60	- - -	- - -
ML-67-VW4	PB-VW401 TO BVW4-4	70	- - -	- - -
ML-67-VW4	BVW4-4 TO AVW4-5	85	- - -	- - -
ML-67-VW4	PB-VW401 TO AVW4-6/BVW4-6	90	- - -	- - -
ML-67-VW4	AVW4-6/BVW4-6 TO AVW4-7/BVW4-7	85	- - -	- - -
ML-67-VW4	AVW4-7/BVW4-7 TO AVW4-8/BVW4-8	90	- - -	- - -
ML-67-VW4	AVW4-8/BVW4-8 TO AVW4-9/BVW4-9	265	- - -	- - -
ML-67-VW4	AVW4-9/BVW4-9 TO AVW4-10/BVW4-10	85	- - -	- - -
ML-67-VW4	AVW4-10/BVW4-10 TO JB-VW400	15	- - -	- - -
ML-67-VW4	JB-VW401 TO AVW4-11/BVW4-11	15	- - -	- - -
ML-67-VW4	AVW4-11/BVW4-11 TO AVW4-12/BVW4-12	95	- - -	- - -
ML-67-VW4	AVW4-12/BVW4-12 TO AVW4-13/BVW4-13	170	- - -	- - -
ML-67-VW4	AVW4-13/BVW4-13 TO PB-VW402	110	- - -	- - -
ML-67-VW4	PB-VW402 TO AVW4-14	60	- - -	- - -
ML-67-VW4	AVW4-14 TO STUBOUT	15	- - -	- - -
ML-67-VW4	PB-VW402 TO AVW4-15/BVW4-15	15	- - -	- - -
ML-67-VW4	AVW4-15/BVW4-15 TO STUBOUT	15	- - -	- - -
ML-67-VW4	PB-VW400 TO CVW4-1	40	- - -	- - -
ML-67-VW4	CVW4-1 TO CVW4-2/DVW4-2	100	- - -	- - -
ML-67-VW4	CVW4-2/DVW4-2 TO CVW4-3/DVW4-3	75	- - -	- - -
ML-67-VW4	CVW4-2/DVW4-2 TO PB-VW403	70	- - -	- - -
ML-67-VW4	PB-VW403 TO DVW4-1	20	- - -	- - -
ML-67-VW4	PB-VW403 TO CVW4-4	250	- - -	- - -
ML-67-VW4	CVW4-4 TO DVW4-4	130	- - -	- - -
ML-67-VW4	DVW4-4 TO CVW4-5	135	- - -	- - -
ML-67-VW4	CVW4-5 TO DVW4-5	140	- - -	- - -
ML-67-VW4	DVW4-5 TO CVW4-6	140	- - -	- - -
ML-67-VW4	CVW4-6 TO DVW4-6	135	- - -	- - -
ML-67-VW4	DVW4-6 TO CVW4-7	140	- - -	- - -
ML-67-VW4	CVW4-7 TO DVW4-7	145	- - -	- - -
ML-67-VW4	DVW4-7 TO CVW4-8	140	- - -	- - -
ML-67-VW4	CVW4-8 TO DVW4-8	140	- - -	- - -
ML-67-VW4	DVW4-8 TO CVW4-9	750	- - -	70
ML-67-VW4	CVW4-9 TO DVW4-9	720	- - -	50
TOTAL 0040		4955	45	120

NOTES:
1.. ADDITIONAL QUANTITIES LISTED ELSEWHERE

SYSTEM	LOCATION	LABEL	MUNICIPAL LIGHTING - PULL BOX GROUNDNG 653.0135[1] PULL BOXES STEEL 24x36-INCH EACH	 655.0615[1] ELECTRIC WIRE LIGHTING 10 AWG LF	COMMENTS
ML-67-VW4	1540+95.95, 64.63' RT	PB-VW400	1	9	USE TAP CONNECTOR
ML-67-VW4	1538+28.29, 3.81' RT	PB-VW401	1	9	USE TAP CONNECTOR
ML-67-VW4	1527+39.04, 6.97' LT (C.I.M.)	PB-VW402	1	25	PB-VW402 TO A/BVW4-15
ML-67-VW4	81+11.07, 63.88' LT	PB-VW403	1	30	PB-VW403 TO DVW4-1
TOTAL 0040			4	73	

NOTES:
1.. ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

			MUNICIPAL LIGHTING ITEMS - ML-67-VW4									
			654.0105[1] CONCRETE BASES TYPE 5	655.0610[1] WIRE 12 AWG	655.0640[1] WIRE 1 AWG	656.0200.07 ELECTRICAL SERVICES METER BREAKER PEDESTAL (ML-67-VW4)	659.0802[1] PLAQUES SEQUENCE IDENTIFICATION	SPV.0060.07[1] CONCRETE CONTROL CABINET BASES SPECIAL	SPV.0060.06[1] LIGHTING CONTROL CABINET	SPV.0060.10[1] DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT	SPV.0060.11[1] DECORATIVE LIGHT POLE DOUBLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT	SPV.0060.12[1] DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 30-FT, 180 WATT
SYSTEM	SEQUENCE I.D.	LOCATION	EACH	LF	LF	LS	EACH	EACH	EACH	EACH	EACH	EACH
ML-67-VW4		CABINET	- - -	- - -	18	1	5	1	1	- - -	- - -	- - -
ML-67-VW4	AVW4-1/BVW4-1	1540+98.00, 5.63' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-2/BVW4-2	1540+09.00, 3.60' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-3/BVW4-3	1539+20.00, 7.37' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-4	1537+94.82, 51.50' RT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	BVW4-4	1538+38.67, 63.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	AVW4-5	1537+54.20, 63.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	AVW4-6/BVW4-6	1537+40.00, 7.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-7/BVW4-7	1536+56.00, 7.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-8/BVW4-8	1535+69.00, 5.18' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-9/BVW4-9	1533+05.00, 0.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-10/BVW4-10	1532+22.00, 0.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-11/BVW4-11	1531+08.00, 0.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-12/BVW4-12	1530+17.00, 3.31' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-13/BVW4-13	1528+48.00, 6.00' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	AVW4-14	1527+54.05, 63.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	AVW4-15/BVW4-15	1527+28.00, 7.00' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	CVW4-1	1541+30.83, 76.70' RT	1	120	- - -	- - -	1	- - -	- - -	- - -	- - -	1
ML-67-VW4	DVW4-1	1542+94.61, 74.50' RT	1	120	- - -	- - -	1	- - -	- - -	- - -	- - -	1
ML-67-VW4	CVW4-2/DVW4-2	81+32.63, 2.59' RT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	CVW4-3/DVW4-3	82+05.00, 0.21' LT (C.I.M.)	1	240	- - -	- - -	2	- - -	- - -	- - -	1	- - -
ML-67-VW4	CVW4-4	83+68.30, 46.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	DVW4-4	84+95.00, 46.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	CVW4-5	86+27.00, 41.29' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	DVW4-5	87+63.42, 36.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	CVW4-6	89+01.00, 36.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	DVW4-6	90+35.24, 36.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	CVW4-7	91+74.97, 36.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	DVW4-7	93+16.75, 36.00' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	CVW4-8	94+54.03, 37.21' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	DVW4-8	95+92.03, 41.50' LT	1	120	- - -	- - -	1	- - -	- - -	1	- - -	- - -
ML-67-VW4	CVW4-9	103+30, 30.0' LT	1	120	- - -	- - -	1	- - -	- - -	- - -	- - -	1
ML-67-VW4	DVW4-9	110+40, 50.0' LT	1	120	- - -	- - -	1	- - -	- - -	- - -	- - -	1
		TOTAL 0040	32	5520	18	1	51	1	1	14	14	4

PLAQUE TEXT: ML-67-VWX
VILLAGE OF WALES
CIRCUIT X
2 - 240 VAC WARNING (2 REQUIRED PER LOCATION; METER PEDESTAL AND CABINET DOOR)

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE
2. SUBSTITUTE "X" IN CABINET PLAQUE WITH SYSTEM NUMBER

				MUNICIPAL LIGHTING - WIRE	
				655.0620[1] ELECTRIC WIRE LIGHTING 8 AWG	655.0630 ELECTRIC WIRE LIGHTING 4 AWG
SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	LF	LF
ML-67-VW4	A/B/N/G	ML-67-VW4 TO PB-VW400	15	18	72
ML-67-VW4	A/B/N/G	PB-VW400 TO AVW4-1/BVW4-1	70	78	234
ML-67-VW4	A/B/N/G	AVW4-1/BVW4-1 TO AVW4-2/BVW4-2	90	100	300
ML-67-VW4	A/B/N/G	AVW4-2/BVW4-2 TO AVW4-3/BVW4-3	90	100	300
ML-67-VW4	A/B/N/G	AVW4-3/BVW4-3 TO PB-VW401	95	103	309
ML-67-VW4	A/N/G	PB-VW401 TO AVW4-4	60	68	136
ML-67-VW4	A/B/N/G	PB-VW401 TO BVW4-4	70	78	234
ML-67-VW4	A/N/G	BVW4-4 TO AVW4-5	85	95	190
ML-67-VW4	A/B/N/G	PB-VW401 TO AVW4-6/BVW4-6	90	98	294
ML-67-VW4	A/B/N/G	AVW4-6/BVW4-6 TO AVW4-7/BVW4-7	85	95	285
ML-67-VW4	A/B/N/G	AVW4-7/BVW4-7 TO AVW4-8/BVW4-8	90	100	300
ML-67-VW4	A/B/N/G	AVW4-8/BVW4-8 TO AVW4-9/BVW4-9	265	275	825
ML-67-VW4	A/B/N/G	AVW4-9/BVW4-9 TO AVW4-10/BVW4-10	85	95	285
ML-67-VW4	A/B/N/G	AVW4-10/BVW4-10 TO JB-VW400	15	23	69
ML-67-VW4	A/B/N/G	JB-VW400 TO JB-VW401	120	126	378
ML-67-VW4	A/B/N/G	JB-VW401 TO AVW4-11/BVW4-11	15	23	69
ML-67-VW4	A/B/N/G	AVW4-11/BVW4-11 TO AVW4-12/BVW4-12	95	105	315
ML-67-VW4	A/B/N/G	AVW4-12/BVW4-12 TO AVW4-13/BVW4-13	170	180	540
ML-67-VW4	A/B/N/G	AVW4-13/BVW4-13 TO PB-VW402	110	118	354
ML-67-VW4	A/N/G	PB-VW402 TO AVW4-14	60	68	136
ML-67-VW4	A/B/N/G	PB-VW402 TO AVW4-15/BVW4-15	15	23	69
ML-67-VW4	C/D/N	ML-67-VW4 TO PB-VW400	15	- - -	54
ML-67-VW4	C/D/N/G	PB-VW400 TO CVW4-1	40	48	144
ML-67-VW4	C/D/N/G	CVW4-1 TO CVW4-2/DVW4-2	100	110	330
ML-67-VW4	C/D/N/G	CVW4-2/DVW4-2 TO CVW4-3/DVW4-3	75	85	255
ML-67-VW4	C/D/N/G	CVW4-2/DVW4-2 TO PB-VW403	70	78	234
ML-67-VW4	D/N/G	PB-VW403 TO DVW4-1	20	28	56
ML-67-VW4	C/D/N/G	PB-VW403 TO CVW4-4	250	258	774
ML-67-VW4	C/D/N/G	CVW4-4 TO DVW4-4	130	140	420
ML-67-VW4	C/D/N/G	DVW4-4 TO CVW4-5	135	145	435
ML-67-VW4	C/D/N/G	CVW4-5 TO DVW4-5	140	150	450
ML-67-VW4	C/D/N/G	DVW4-5 TO CVW4-6	140	150	450
ML-67-VW4	C/D/N/G	CVW4-6 TO DVW4-6	135	145	435
ML-67-VW4	C/D/N/G	DVW4-6 TO CVW4-7	140	150	450
ML-67-VW4	C/D/N/G	CVW4-7 TO DVW4-7	145	155	465
ML-67-VW4	C/D/N/G	DVW4-7 TO CVW4-8	140	150	450
ML-67-VW4	C/D/N/G	CVW4-8 TO DVW4-8	140	150	450
ML-67-VW4	C/D/N/G	DVW4-8 TO CVW4-9	820	830	2490
ML-67-VW4	C/D/N/G	CVW4-9 TO DVW4-9	770	780	1560
		TOTAL 0040		5521	15596

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_030010_mq.dgn PLOT DATE : 9/13/2013 8:16:32 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 2.0000 sf / IN.
WISDOT/CADDS SHEET 43

3

			FIRE STATION BEACON						
			654.0101 CONCRETE BASES TYPE 1	657.0100 PEDESTAL BASE TYPE 1	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT	658.0605 LED MODULES 12-INCH YELLOW BALL	658.5069.01 SIGNAL MOUNTING HARDWARE FSB1	658.5069.02 SIGNAL MOUNTING HARDWARE FSB2	659.0802[1] PLAQUES SEQUENCE IDENTIFICATION
SYSTEM	SEQUENCE I.D.	LOCATION	EACH	EACH	EACH	EACH	LS	LS	EACH
FIRE STATION BEACON	FSB1	1471+00, 46.5' RT	1	1	1	1	1	- - -	1
FIRE STATION BEACON	FSB2	1481+70, 63.18' LT	1	1	1	1	- - -	1	1
		TOTAL 0040	2	2	2	2	1	1	2

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

			FIRE STATION BEACON - PULL BOX GROUNDING		
			653.0135[1] PULL BOXES STEEL 24x36-INCH	655.0615[1] ELECTRIC WIRE LIGHTING 10 AWG	
SYSTEM	LOCATION	LABEL	EACH	LF	COMMENTS
FIRE STATION BEACON	1475+85.0, 46.5' RT	PB-FSB1	1	9	USE TAP CONNECTOR
FIRE STATION BEACON	1481+70.0, 46.5' RT	PB-FSB2	1	9	USE TAP CONNECTOR
	TOTAL 0040		2	18	

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

		FIRE STATION BEACON - CONDUIT
		652.0225[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
SYSTEM	LOCATION TO LOCATION	LF
FIRE STATION BEACON	FSB1 TO PB-FSB1	265
FIRE STATION BEACON	PB-FSB1 TO FIRE STATION	105
FIRE STATION BEACON	FSB2 TO PB-FSB2	110
FIRE STATION BEACON	PB-FSB2 TO PB-FSB1	590
TOTAL 0040		1070

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

				FIRE STATION BEACON - WIRE
				655.0520 ELECTRIC WIRE TRAFFIC SIGNALS 8 AWG
SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	LF
FIRE STATION BEACON	A/N/G	FSB1 TO FIRE STATION	370	1110
FIRE STATION BEACON	A/N/G	FSB2 TO FIRE STATION	805	2415
		TOTAL 0040		3525

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	MISCELLANEOUS QUANTITIES - FIRE STATION BEACON	SHEET 464	E

MUNICIPAL LIGHTING ITEMS - ML-67-SU

SYSTEM	SEQUENCE I.D.	LOCATION	204.0195 REMOVING CONCRETE BASES EACH	653.0905 REMOVING PULL BOXES EACH	654.0105[1] CONCRETE BASES TYPE 5 EACH	655.0610[1] WIRE 12 AWG LF	655.0640[1] WIRE 1 AWG LF	656.0200.08 ELECTRICAL SERVICES METER BREAKER PEDESTAL (ML-67-SU) LS	659.0802[1] PLAQUES SEQUENCE IDENTIFICATION EACH	654.0215 CONCRETE CONTROL CABINET BASES TYPE 9 EACH	SPV.0060.03[1] REMOVE AND REINSTALL CONTROLLER CABINET EACH	SPV.0060.04 LAMP DISPOSAL HIGH INTENSITY DISCHARGE EACH	SPV.0060.05[1] SALVAGING LIGHT POLES ARMS AND LUMINAIRES EACH	SPV.0060.10[1] DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT EACH	SPV.0060.11[1] DECORATIVE LIGHT POLE DOUBLE FIXTURE AND LED LUMINAIRE 30-FT, 120 WATT EACH	SPV.0060.12[1] DECORATIVE LIGHT POLE SINGLE FIXTURE AND LED LUMINAIRE 30-FT, 180 WATT EACH	COMMENTS
HL-67-SU		CABINET	- - -	- - -	- - -	- - -	18	1	5	1	0.5	- - -	- - -	- - -	- - -	- - -	REINSTALL CABINET, REMOVE WisDOT STICKER
HL-67-SU	ASU-1	1542+92.77, 72.36' LT	- - -	- - -	1	120	- - -	- - -	1	- - -	- - -	- - -	- - -	- - -	- - -	1	
HL-67-SU	ASU-2/BSU-2	1543+28.01, 0.84' RT (C.I.M.)	- - -	- - -	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	- - -	1	- - -	
HL-67-SU	ASU-3/BSU-3	1544+07.00, 2.46' LT (C.I.M.)	- - -	- - -	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	- - -	1	- - -	
HL-67-SU	ASU-4/BSU-4	1545+63.31, 0.80' RT (C.I.M.)	- - -	- - -	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	- - -	1	- - -	
HL-67-SU	ASU-5/BSU-5	1547+00.33, 0.50' RT (C.I.M.)	- - -	- - -	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	- - -	1	- - -	
HL-67-SU	CSU-1	1541+39.38, 79.63' LT	- - -	- - -	1	120	- - -	- - -	1	- - -	- - -	- - -	- - -	- - -	- - -	1	
HL-67-SU	CSU-2/ DSU-2	78+91.20, 3.05' LT (C.I.M.)	- - -	- - -	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	- - -	1	- - -	
HL-67-SU	CSU-3 / DSU-3	78+18.00, 2.87' LT (C.I.M.)	- - -	- - -	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	- - -	1	- - -	
HL-67-SU	CSU-4 / DSU-4	77+21.00, 0.0.2' LT (C.I.M.)	- - -	- - -	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	- - -	1	- - -	
HL-67-SU	CSU-5/ DSU-5	76+17.00, 0.12' LT (C.I.M.)	- - -	- - -	1	240	- - -	- - -	2	- - -	- - -	- - -	- - -	- - -	1	- - -	
HL-67-SU	CSU-6/DSU-6	75+18.10, 6.24' RT (C.I.M.)	1	- - -	1	240	- - -	- - -	2	- - -	- - -	1	1	- - -	1	- - -	
HL-67-SU	CSU-7/DSU-7	EXISTING CONCRETE BASE	- - -	- - -	- - -	240	- - -	- - -	2	- - -	- - -	2	1	- - -	1	- - -	PROVIDE 15" BOLT CIRCLE BASE PLATE
HL-67-SU	CSU-8	EXISTING CONCRETE BASE	- - -	- - -	- - -	120	- - -	- - -	1	- - -	- - -	1	1	1	- - -	- - -	PROVIDE 15" BOLT CIRCLE BASE PLATE
HL-67-SU	DSU-8	EXISTING CONCRETE BASE	- - -	- - -	- - -	120	- - -	- - -	1	- - -	- - -	1	1	1	- - -	- - -	PROVIDE 15" BOLT CIRCLE BASE PLATE
HL-67-SU	CSU-9/DSU-9	EXISTING CONCRETE BASE	- - -	- - -	- - -	240	- - -	- - -	2	- - -	- - -	2	1	- - -	1	- - -	PROVIDE 15" BOLT CIRCLE BASE PLATE
HL-67-SU	DSU-10	EXISTING CONCRETE BASE	- - -	- - -	- - -	120	- - -	- - -	1	- - -	- - -	1	1	1	- - -	- - -	PROVIDE 15" BOLT CIRCLE BASE PLATE
EXISTING	N/A	75+22, 45' RT	1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1	1	- - -	- - -	- - -	
EXISTING	N/A	76+68, 30' LT	1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	1	1	- - -	- - -	- - -	
EXISTING	N/A	77+25, 50' RT	- - -	1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
EXISTING	N/A	77+17, 29' LT	1	1	- - -	- - -	- - -	- - -	- - -	- - -	0.5	- - -	- - -	- - -	- - -	- - -	REMOVE CABINET AND BASE
EXISTING	N/A	78+82, 52' LT	- - -	1	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	
		TOTAL 0040	4	3	11	3240	18	1	32	1	1	10	8	3	11	2	

PLAQUE TEXT: ML-67-VWX
VILLAGE OF WALES
CIRCUIT X
2 - 240 VAC WARNING (2 REQUIRED PER LOCATION; METER PEDESTAL AND CABINET DOOR)

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE
2. SUBSTITUTE "X" IN CABINET PLAQUE WITH SYSTEM NUMBER

3

MUNICIPAL LIGHTING - PULL BOX GROUNDING

SYSTEM	LOCATION	LABEL	653.0135[1] PULL BOXES STEEL 24x36-INCH EACH	655.0615[1] ELECTRIC WIRE LIGHTING 10 AWG LF	COMMENTS
HL-67-SU	79+28.95, 83.76' LT	SU400	1	20	SU400 TO ASU-1
HL-67-SU	1542+95.57, 0.6' RT	SU401	1	9	USE TAP CONNECTOR
HL-67-SU	79+19.45, 6.6' LT	SU402	1	9	USE TAP CONNECTOR
HL-67-SU	77+23.38, 36.9' LT	SU403	1	9	USE TAP CONNECTOR
HL-67-SU	EXISTING	SU404	- - -	9	USE TAP CONNECTOR
HL-67-SU	EXISTING	SU405	- - -	9	USE TAP CONNECTOR
HL-67-SU	EXISTING	SU406	- - -	9	USE TAP CONNECTOR
TOTAL 0040			4	74	

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

MUNICIPAL LIGHTING - CONDUIT

SYSTEM	LOCATION TO LOCATION	652.0225[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235[1] CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
HL-67-SU	HL-67-SU TO PB-SU400	- - -	45
HL-67-SU	PB-SU400 TO ASU-1	15	- - -
HL-67-SU	ASU-1 TO PB-SU401	75	- - -
HL-67-SU	PB-SU401 TO ASU-2/BSU-2	35	- - -
HL-67-SU	ASU-2/BSU-2 TO ASU-3/BSU-3	80	- - -
HL-67-SU	ASU-3/BSU-3 TO ASU-4/BSU-4	160	- - -
HL-67-SU	ASU-4/BSU-4 TO ASU-5/BSU-5	135	- - -
HL-67-SU	ASU-5/BSU-5 TO STUBOUT	15	- - -
HL-67-SU	PB-SU400 TO PB-SU402	80	- - -
HL-67-SU	PB-SU402 TO CSU-1	80	- - -
HL-67-SU	PB-SU402 TO CSU-2/DSU-2	30	- - -
HL-67-SU	CSU-2/DSU-2 TO CSU-3/DSU-3	75	- - -
HL-67-SU	CSU-3/DSU-3 TO CSU-4/DSU-4	100	- - -
HL-67-SU	CSU-4/DSU-4 TO CSU-5/DSU-5	105	- - -
HL-67-SU	CSU-5/DSU-5 TO CSU-6/DSU-6	100	- - -
HL-67-SU	CSU-6/DSU-6 TO EXISTING CONDUIT	50	- - -
HL-67-SU	CSU-4/DSU-4 TO PB-SU403	40	- - -
HL-67-SU	PB-SU403 TO EXISTING COUNDUIT	250	- - -
TOTAL 0040		1425	45

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

MUNICIPAL LIGHTING - WIRE

SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	655.0620[1] ELECTRIC WIRE LIGHTING 8 AWG LF
HL-67-SU	A/B/N/G	HL-67-SU TO PB-SU400	15	90
HL-67-SU	A/B/N/G	PB-SU400 TO ASU-1	15	115
HL-67-SU	A/B/N/G	ASU-1 TO PB-SU401	75	415
HL-67-SU	A/B/N/G	PB-SU401 TO ASU-2/BSU-2	35	215
HL-67-SU	A/B/N/G	ASU-2/BSU-2 TO ASU-3/BSU-3	80	450
HL-67-SU	A/B/N/G	ASU-3/BSU-3 TO ASU-4/BSU-4	160	850
HL-67-SU	A/B/N/G	ASU-4/BSU-4 TO ASU-5/BSU-5	135	725
HL-67-SU	C/D/N	HL-67-SU TO PB-SU400	15	72
HL-67-SU	C/D/N/G	PB-SU400 TO PB-SU402	80	430
HL-67-SU	C/D/N/G	PB-SU402 TO CSU-1	80	264
HL-67-SU	C/D/N/G	PB-SU402 TO CSU-2/DSU-2	30	190
HL-67-SU	C/D/N/G	CSU-2/DSU-2 TO CSU-3/DSU-3	75	425
HL-67-SU	C/D/N/G	CSU-3/DSU-3 TO CSU-4/DSU-4	100	550
HL-67-SU	C/D/N/G	CSU-4/DSU-4 TO CSU-5/DSU-5	105	575
HL-67-SU	C/D/N/G	CSU-5/DSU-5 TO CSU-6/DSU-6	100	550
HL-67-SU	C/D/N/G	CSU-6/DSU-6 TO CSU-7/DSU-7	165	875
HL-67-SU	C/D/N/G	CSU-7/DSU-7 TO PB-SU404	60	340
HL-67-SU	C/D/N/G	PB-SU404 TO CSU-8	55	315
HL-67-SU	D/N/G	CSU-8 TO DSU-8	125	405
HL-67-SU	C/D/N/G	CSU-4/DSU-4 TO PB-SU403	40	240
HL-67-SU	C/D/N/G	PB-SU403 TO PB-SU405	255	1305
HL-67-SU	C/D/N/G	PB-SU405 TO CSU-9/DSU-9	70	390
HL-67-SU	C/D/N/G	CSU-9/DSU-9 TO PB-SU406	45	159
HL-67-SU	D/N/G	PB-SU406 TO DSU-10	95	309
TOTAL 0040				10254

NOTES:
1. ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.01

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 16, TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

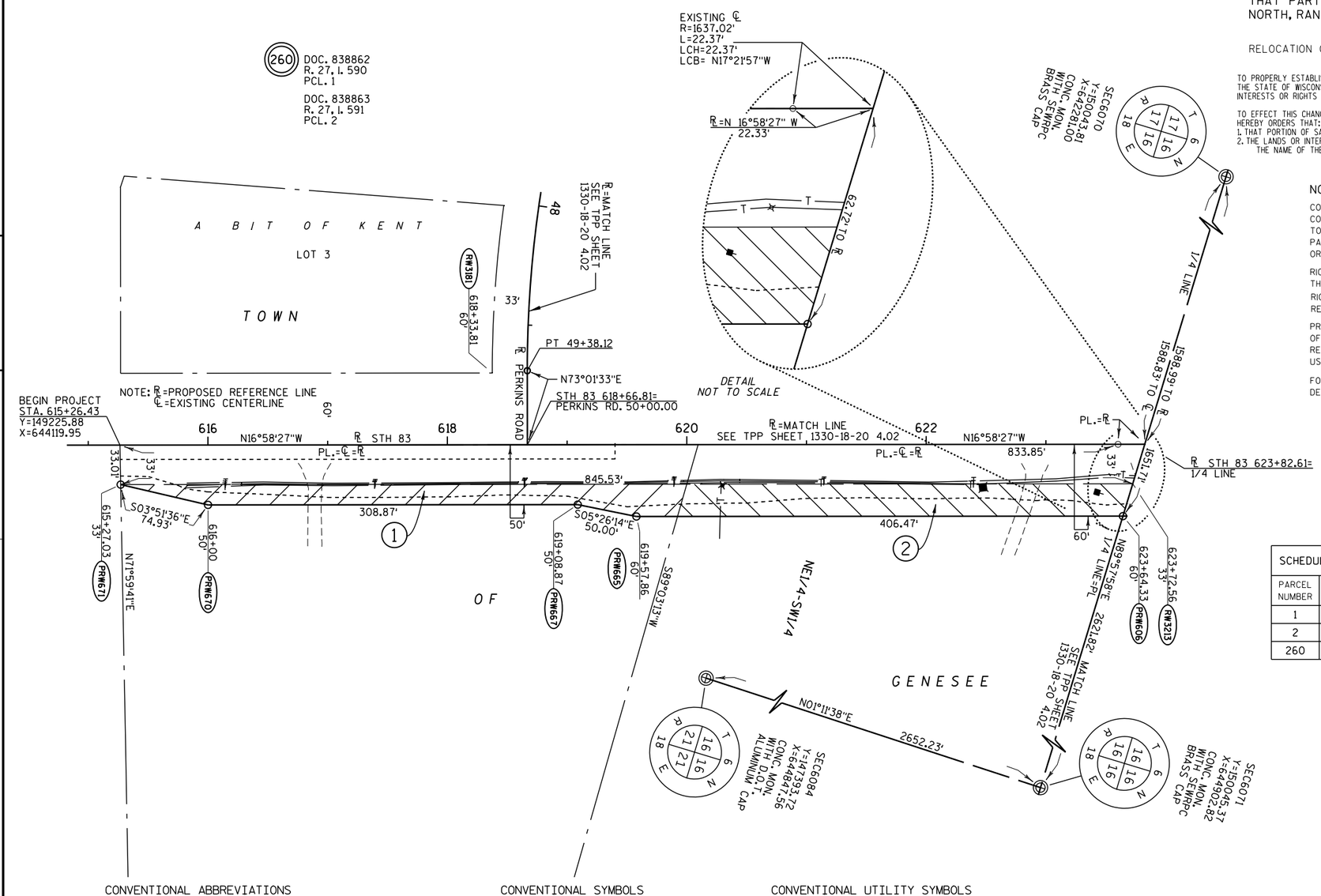
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.



SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
1	MICHAEL E. & CRYSTAL HAGIE	FEE	0.18	0.36	0.54		
2	JOYCE J. DOUGLAS	FEE	0.23	0.28	0.51		
260	CENTURYLINK	ROR					

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	A BIT OF KENT	60'	1972
STH 83	WIS. STATUTE 82.31(2)	33'	
PERKINS ROAD	A BIT OF KENT	33'	1972

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH		
LONG CHORD BEARING	LCB		
RADIUS	R		
DEGREE OF CURVE	D		
CENTRAL ANGLE OR DELTA	DELTA		
LENGTH OF CURVE	L		
TANGENT	TAN		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN — LP (1" UNLESS NOTED)
R/W MONUMENT — ●(SET)
R/W STANDARD — ▲(SET)
SIGN — ISIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT — RWB20
PARCEL NUMBER — 102
UTILITY PARCEL NUMBER — 92
SIGN NUMBER (OFF PREMISE) — 21-1
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

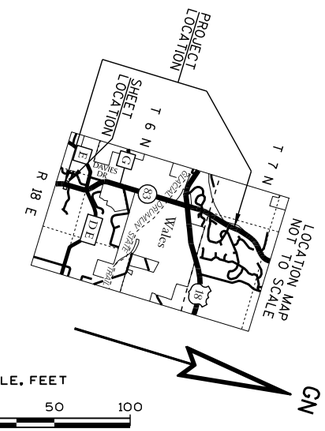
THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/21/11 — Robert L Duffeck — Name ROBERT L. DUFFECK Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/21/11 — Walter C. Zendek — Name WALTER C. ZENDEK



RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.01
AMENDMENT NO:

3876763
REGISTER OF DEEDS WAUKESHA COUNTY, WI RECORDED ON
December 05, 2011 10:56 AM
James R Behrens
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $3.00
Book 1 Page 102-102

FILE NAME : J:\projects\d2_r_13301883\040401_RP.dgn PLOT DATE : 05-JUN-2012 12:48 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.01

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.01 AMENDMENT 1

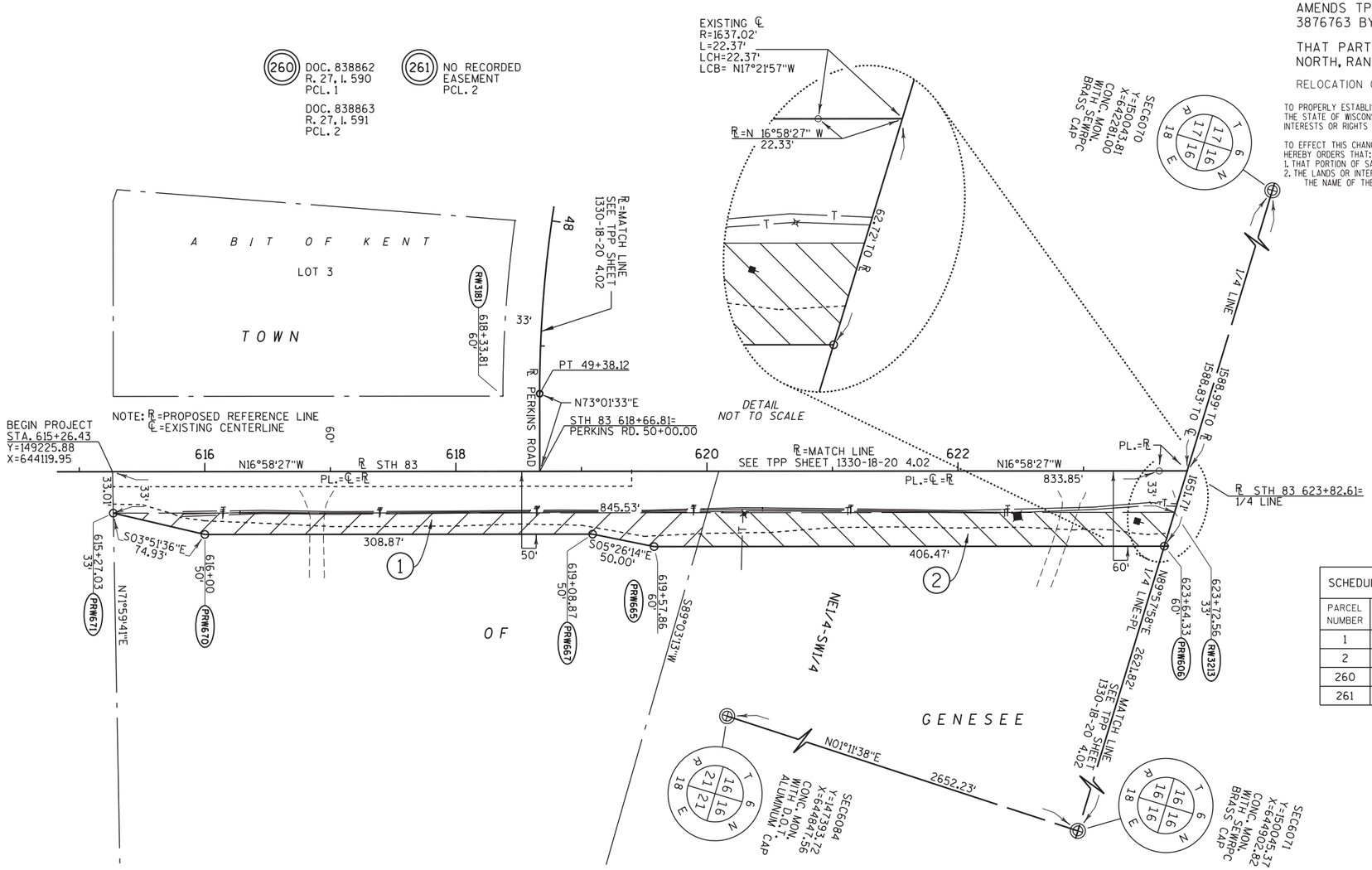
AMENDS TPP SHEET 1330-18-20-4.01 RECORDED IN BOOK 1, PAGE 102 AS DOCUMENT NUMBER 3876763 BY ADDING PARCEL 261.

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 16, TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
1	MICHAEL E. & CRYSTAL HAGIE	FEE	0.18	0.36	0.54		
2	JOYCE J. DOUGLAS	FEE	0.23	0.28	0.51		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	A BIT OF KENT	60'	1972
STH 83	WIS. STATUTE 82.31(2)	33'	
PERKINS ROAD	A BIT OF KENT	33'	1972

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
		REMAINING	REM.
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W
ACRES	AC.	SECTION	SEC.
AND OTHERS	ET.AL.	STATION	STA.
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE
CERTIFIED SURVEY MAP	CSM	VOLUME	V.
CORNER	COR.		
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT ○ (SET)
R/W STANDARD △ (SET)
SIGN ISIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER — W —		
GAS — G —		
TELEPHONE — T —		
OVERHEAD TRANSMISSION LINES — OH —		
ELECTRIC — E —		
CABLE TELEVISION — TV —		
FIBER OPTIC — FO —		
SANITARY SEWER — SAN —		
STORM SEWER — SS —		
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

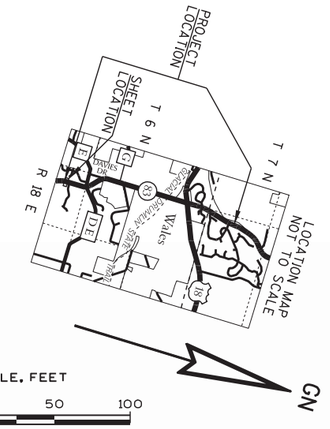
THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/17/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/17/12 — Name WALTER C. ZENDEK



RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.01
AMENDMENT NO: 1

3951885
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
September 20, 2012 11:10 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 143-143

FILE NAME : j:\projects\d2_r_13301883\040401A1_RP.dgn PLOT DATE : 20-SEP-2012 12:46 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.01 AMENDMENT 1

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.02

THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4, PARCEL 2 OF CSM 5456, LOT 1 OF CSM 8176, LOT 14 OF HARVEST CANYON ESTATES AND PART OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, AND PART OF THE NORTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 16, TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	CSM 5456	33'	1988
STH 83	CSM 5456	60'	1988
STH 83	PROJECT 1331-06-20	60'	1988
STH 83	CSM 2926	50'	1977
STH 83	CSM 8176	60'	1996
STH 83	A BIT OF KENT	60'	1972
STH 83	DOC. 787756	60'	1971
STH 83	WIS. STATUTE 82.31(2)	66'	
PERKINS ROAD	A BIT OF KENT	33'	1972
LONDON DRIVE	HARVEST CANYON ESTATES	33'	1991

R STH 83
PISTA 633+60.87
Y 150980.40
X 643584.40
PC STA 630+31.82
PT STA 636+84.09
DELTA 18°41'10"
D 2°51'53"
T 329.06'
L 652.27'
R 2000.00'
LCH 649.38'
LCB N 7°37'52" W

SUBCURVE KC28
L=313.66'
R=2000.00'
LC=313.34'
LCB=N12°28'53"W

CURVE PRW3
L=130.00'
R=1577.02'
LC=129.96'
LCB=N19°20'09"W

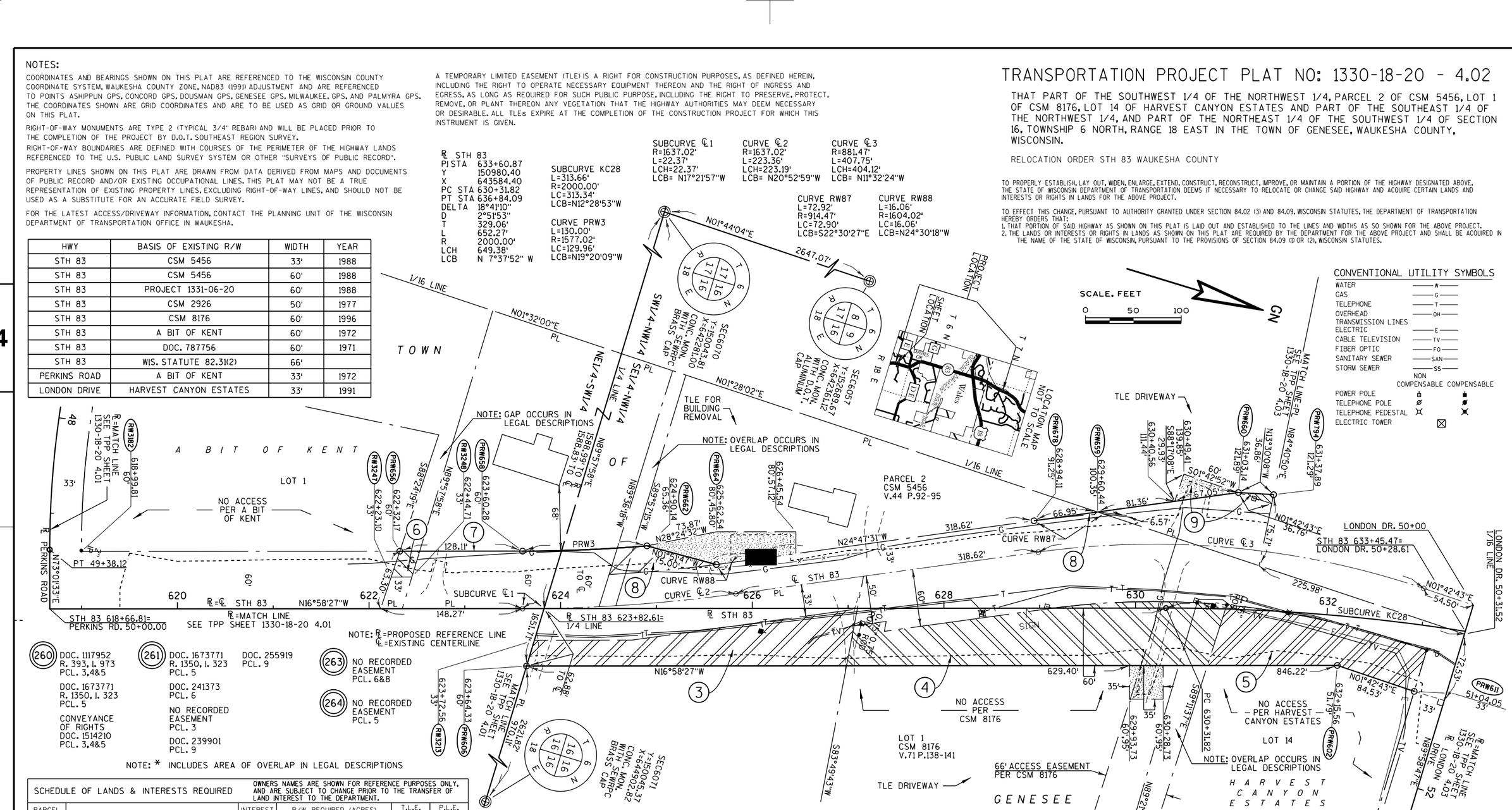
SUBCURVE ℄1
R=1637.02'
L=22.37'
LCH=22.37'
LCB= N17°21'57"W

CURVE ℄2
R=1637.02'
L=223.36'
LCH=223.19'
LCB= N20°52'59"W

CURVE ℄3
R=881.47'
L=407.75'
LCH=404.12'
LCB= N11°32'24"W

CURVE RW87
L=72.92'
R=914.47'
LC=72.90'
LCB=S22°30'27"E

CURVE RW88
L=16.06'
R=1604.02'
LC=16.06'
LCB=N24°30'18"W



TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.03

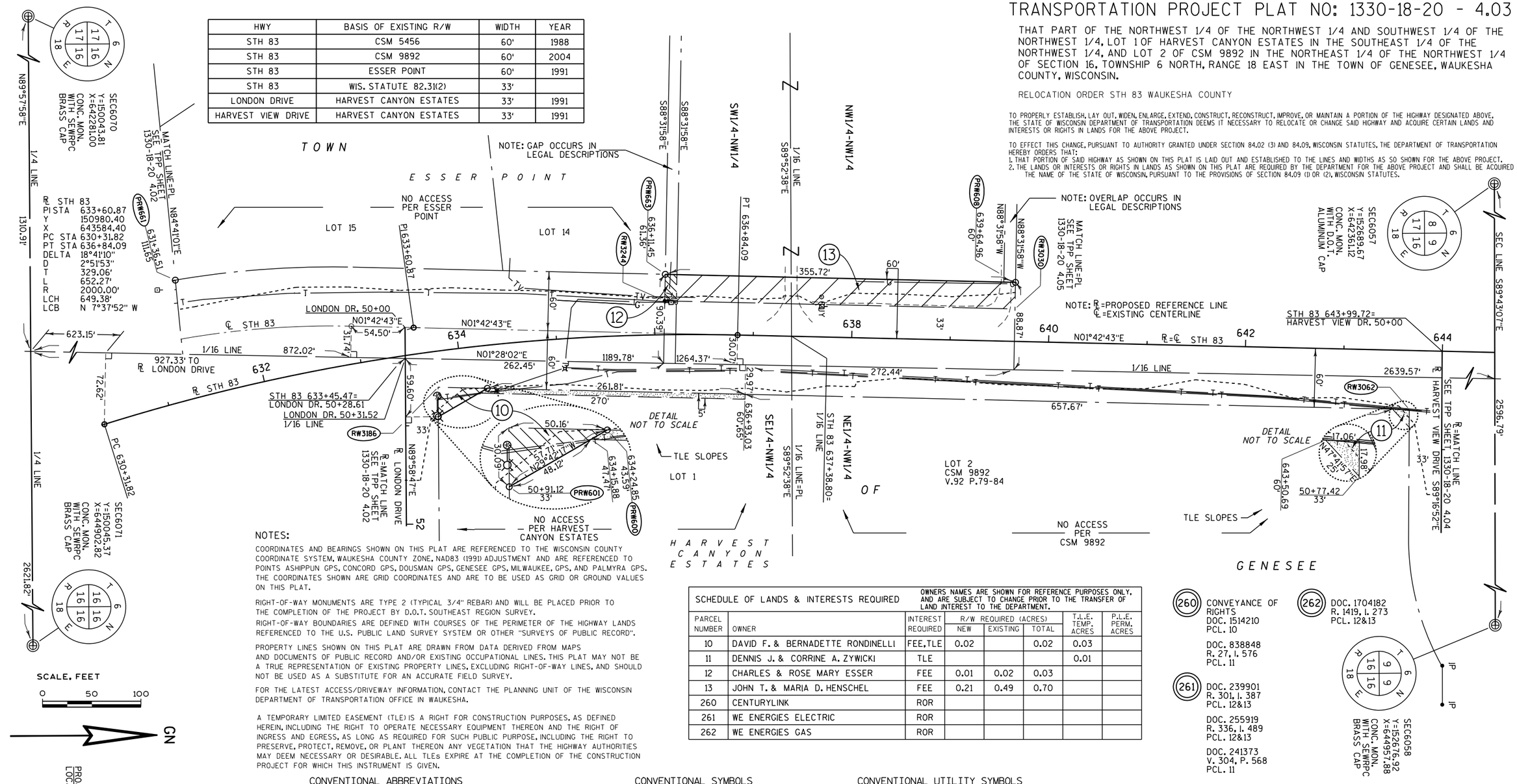
THAT PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 AND SOUTHWEST 1/4 OF THE NORTHWEST 1/4, LOT 1 OF HARVEST CANYON ESTATES IN THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, AND LOT 2 OF CSM 9892 IN THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 16, TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	CSM 5456	60'	1988
STH 83	CSM 9892	60'	2004
STH 83	ESSER POINT	60'	1991
STH 83	WIS. STATUTE 82.31(2)	33'	
LONDON DRIVE	HARVEST CANYON ESTATES	33'	1991
HARVEST VIEW DRIVE	HARVEST CANYON ESTATES	33'	1991



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

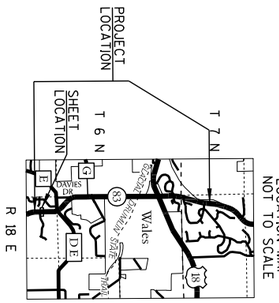
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

SCALE, FEET

0 50 100

GN



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
10	DAVID F. & BERNADETTE RONDINELLI	FEE,TLE	0.02		0.02	0.03	
11	DENNIS J. & CORRINE A. ZYWICKI	TLE				0.01	
12	CHARLES & ROSE MARY ESSER	FEE	0.01	0.02	0.03		
13	JOHN T. & MARIA D. HENSCHEL	FEE	0.21	0.49	0.70		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
262	WE ENERGIES GAS	ROR					

260 CONVEYANCE OF RIGHTS
DOC. 1514210
PCL. 10

DOC. 838848
R. 27, I. 576
PCL. 11

261 DOC. 239901
R. 301, I. 387
PCL. 12&13

DOC. 255919
R. 336, I. 489
PCL. 12&13

DOC. 241373
V. 304, P. 568
PCL. 11

262 DOC. 1704182
R. 1419, I. 273
PCL. 12&13

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
CORNER	COR.
DOCUMENT	DOC.
EASEMENT	EASE.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PERMANENT LIMITED EASEMENT	PLE
PROPERTY LINE	PL
RECORDED AS	(100')
REFERENCE LINE	℄
RELEASE OF RIGHTS	ROR
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	1/2" (1" UNLESS NOTED)
R/W MONUMENT	●(SET)
R/W STANDARD	▲(SET)
SIGN	SIGN
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	RWB2
PARCEL NUMBER	102
UTILITY PARCEL NUMBER	92
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/16/11 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/16/11 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.03
AMENDMENT NO:

3876764
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
December 05, 2011 10:56 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 103-103

FILE NAME : j:\projects\d2_r_13301883\040403_RP.dgn PLOT DATE : 05-DEC-2011 13:22 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.03

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.03 AMENDMENT NO. 1

AMENDS TPP SHEET 1330-18-20-4.03 RECORDED IN BOOK 1, PAGE 103 AS DOCUMENT NUMBER 3876764 BY REVISING PARCEL 260, ELIMINATING PARCEL 262, AND ADDING PARCELS 263 AND 264.

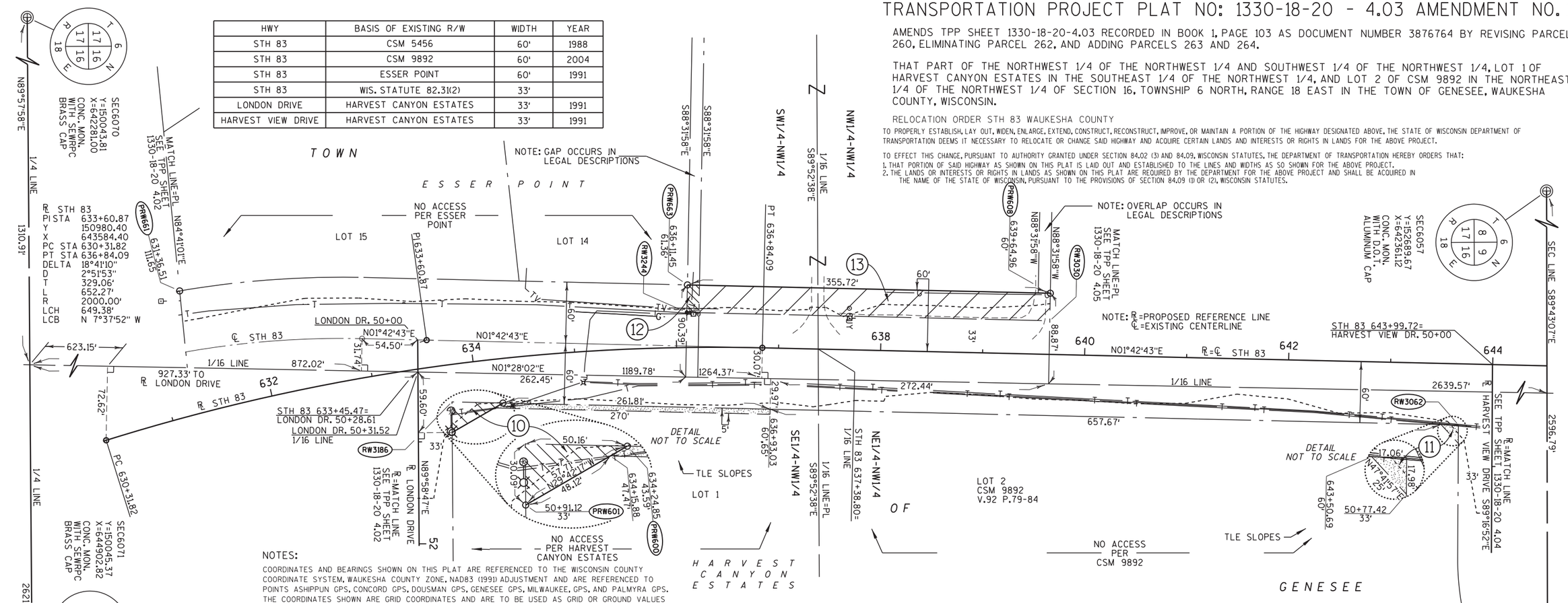
THAT PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 AND SOUTHWEST 1/4 OF THE NORTHWEST 1/4, LOT 1 OF HARVEST CANYON ESTATES IN THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, AND LOT 2 OF CSM 9892 IN THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 16, TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	CSM 5456	60'	1988
STH 83	CSM 9892	60'	2004
STH 83	ESSER POINT	60'	1991
STH 83	WIS. STATUTE 82.31(2)	33'	
LONDON DRIVE	HARVEST CANYON ESTATES	33'	1991
HARVEST VIEW DRIVE	HARVEST CANYON ESTATES	33'	1991



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
10	DAVID F. & BERNADETTE RONDINELLI	FEE,TLE	0.02		0.02	0.03	
11	MOHAMMED ALMOSHELLI & ABEIR HEJB	TLE				0.01	
12	CHARLES & ROSE MARY ESSER	FEE	0.01	0.02	0.03		
13	JOHN T. & MARIA D. HENSCHEL	FEE	0.21	0.49	0.70		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
263	WE ENERGIES GAS	ROR					
264	TIME WARNER CABLE	ROR					

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
CORNER	COR.
DOCUMENT	DOC.
EASEMENT	EASE.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PERMANENT LIMITED EASEMENT	PLE
PROPERTY LINE	PL
RECORDED AS	(100')
REFERENCE LINE	℄
RELEASE OF RIGHTS	ROR
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

FOUND IRON PIPE/PIN	1/2" (1" UNLESS NOTED)
R/W MONUMENT	●(SET)
R/W STANDARD	▲(SET)
SIGN	SIGN
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	RWB2
PARCEL NUMBER	102
UTILITY PARCEL NUMBER	92
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	

CONVENTIONAL SYMBOLS

- PROPOSED R/W LINE
- EXISTING H.E. LINE
- PROPERTY LINE
- LOT & TIE LINES
- SLOPE INTERCEPTS
- CORPORATE LIMITS
- NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
- NO ACCESS (BY ACQUISITION)
- NO ACCESS (BY STATUTORY AUTHORITY)
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- EXISTING CENTERLINE
- PROPOSED REFERENCE LINE
- PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE	○	●
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌑	⌑
ELECTRIC TOWER	⊠	

260 CONVEYANCE OF RIGHTS DOC. 1514210 PCL. 10
DOC. 838848 R. 27, I. 576 PCL. 11
NO RECORDED EASEMENT PCL. 12

261 DOC. 239901 R. 301, I. 387 PCL. 12&13
DOC. 255919 R. 336, I. 489 PCL. 12&13
DOC. 241373 V. 304, P. 568 PCL. 11

263 DOC. 1704182 R. 1419, I. 273 PCL. 12&13

264 NO RECORDED EASEMENT PCL. 12&13

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/17/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/17/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.03
AMENDMENT NO: 1

3951886
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
September 20, 2012 11:10 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 144-144

FILE NAME : j:\projects\d2_r_13301883\040403A1_RP.dgn PLOT DATE : 20-SEP-2012 13:00 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.03 AMENDMENT 1

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.04

THAT PART OF OUTLOT 1 OF THE CONSERVANCY AT GENESEE IN THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 16 AND THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9, AND PART OF LOT 1 OF CSM 5750 IN THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9 ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, ALL IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
14	GENESEE DEVELOPMENT INC.	TLE				0.05	
15	FRED S. & CHRISTINE E. VITALE	TLE				0.01	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
262	AT&T CORP.	ROR					
263	WE ENERGIES GAS	ROR					

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT 1331-06-20	VARIES	1988
STH 83	CSM 5750	50'	1989
HARVEST VIEW DRIVE	THE CONSERVANCY AT GENESEE	33'	2005

260 DOC. 1585116 R. 1190, I. 810 PCL. 14
CONVEYANCE OF RIGHTS DOC. 1514210 PCL. 14&15

261 NO RECORDED EASEMENT PCL. 14

262 DOC. 666549 R. 1055, I. 456 PCL. 15

263 NO RECORDED EASEMENT PCL. 15

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH		
LONG CHORD BEARING	LCB		
RADIUS	R		
DEGREE OF CURVE	D		
CENTRAL ANGLE OR DELTA	DELTA		
LENGTH OF CURVE	L		
TANGENT	TAN		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT ●(SET)
R/W STANDARD ▲(SET)
SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

SCALE, FEET
0 50 100

GN

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.04
AMENDMENT NO:

3901189
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
March 12, 2012 12:35 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 120-120

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3/7/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 3/7/12 — Name WALTER C. ZENDEK

FILE NAME : j:\projects\d2_r_13301883\040404_RP.dgn PLOT DATE : 07-MAR-2012 09:05 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.04

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.04 AMENDMENT 1

AMENDS TPP SHEET 1330-18-20-4.04 RECORDED IN BOOK 1, PAGE 120 AS DOCUMENT NUMBER 3901189 BY REVISING PARCEL 261 AND ADDING PARCEL 264.

THAT PART OF OUTLOT 1 OF THE CONSERVANCY AT GENESEE IN THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 16 AND THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9, AND PART OF LOT 1 OF CSM 5750 IN THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9 ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, ALL IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
14	GENESEE DEVELOPMENT INC.	TLE				0.05	
15	FRED S. & CHRISTINE E. VITALE	TLE				0.01	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
262	AT&T CORP.	ROR					
263	WE ENERGIES GAS	ROR					
264	TIME WARNER CABLE	ROR					

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT 1331-06-20	VARIES	1988
STH 83	CSM 5750	50'	1989
HARVEST VIEW DRIVE	THE CONSERVANCY AT GENESEE	33'	2005

(260) DOC. 1585116 R. 1190, I. 810 PCL. 14
CONVEYANCE OF RIGHTS DOC. 1514210 R. 1069, I. 125 PCL. 14&15

(261) CONVEYANCE OF RIGHTS DOC. 1572977 R. 1170, I. 408 PCL. 14

(262) DOC. 666549 R. 1055, I. 456 PCL. 15

(263) NO RECORDED EASEMENT PCL. 15

(264) NO RECORDED EASEMENT PCL. 14

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH		
LONG CHORD BEARING	LCB		
RADIUS	R		
DEGREE OF CURVE	D		
CENTRAL ANGLE OR DELTA	DELTA		
LENGTH OF CURVE	L		
TANGENT	TAN		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)	PROPOSED R/W LINE
R/W MONUMENT ●(SET)	EXISTING H.E. LINE
R/W STANDARD ▲(SET)	PROPERTY LINE
SIGN	LOT & TIE LINES
SECTION CORNER MONUMENT	SLOPE INTERCEPTS
SECTION CORNER SYMBOL	CORPORATE LIMITS
FEE (HATCH VARIES)	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
TEMPORARY LIMITED EASEMENT	NO ACCESS (BY ACQUISITION)
PERMANENT LIMITED EASEMENT	NO ACCESS (BY STATUTORY AUTHORITY)
R/W BOUNDARY POINT	SECTION LINE
PARCEL NUMBER	QUARTER LINE
UTILITY PARCEL NUMBER	SIXTEENTH LINE
SIGN NUMBER (OFF PREMISE)	EXISTING CENTERLINE
BUILDING	PROPOSED REFERENCE LINE
	PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

SCALE, FEET
0 50 100

GN

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/17/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/17/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.04
AMENDMENT NO: 1

3951887
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
September 20, 2012 11:10 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 145-145

FILE NAME : j:\projects\d2_r_13301883\040404A1_RP.dgn PLOT DATE : 20-SEP-2012 13:08 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.04 AMENDMENT 1

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.05

THAT PART OF LOTS 1, 2, 3, 4, 5, AND 38 OF ESSER POINT LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 16, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

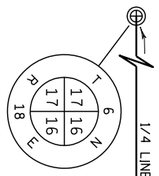
LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	PROPOSED R/W LINE
(1" UNLESS NOTED)	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	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
FEE (HATCH VARIES)	NO ACCESS (BY ACQUISITION)
TEMPORARY LIMITED EASEMENT	NO ACCESS (BY STATUTORY AUTHORITY)
PERMANENT LIMITED EASEMENT	SECTION LINE
R/W BOUNDARY POINT	QUARTER LINE
PARCEL NUMBER	SIXTEENTH LINE
UTILITY PARCEL NUMBER	EXISTING CENTERLINE
SIGN NUMBER (OFF PREMISE)	PROPOSED REFERENCE LINE
BUILDING	PARALLEL OFFSET

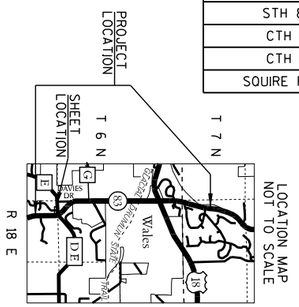
SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
17	DEBORAH A. STEC & LAURA L. THAYER	TLE				0.02	
18	RICK A. & TINA M. HALLADA	TLE				0.03	
19	GREGORY J. & KRISTIK. PALET	TLE				0.04	
20	TIMOTHY S. & MARY K. O'CONNELL	TLE				0.01	
21	VINCENT C. & LISA M. SCHMITT	TLE				0.06	
22	SCOTT & KIM MCCULLOUGH	TLE				0.02	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
264	TIME WARNER CABLE	ROR					

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT 1331-06-20	VARIES	1988
STH 83	ESSER POINT	60'	1991
CTH E	PROJECT 1331-06-20	VARIES	1988
CTH E	ESSER POINT	50'	1991
SQUIRE ROAD	ESSER POINT	66'	1991



SEC6070
Y=150043.81
X=644281.00
CONC. MON. WITH SEWRPC BRASS CAP

1/4 LINE N89°57'58"E 2621.82'



NOTE: OVERLAP OCCURS IN LEGAL DESCRIPTIONS

SEE TPP SHEET 1330-18-20 4.03

PRM6068 639+64.96 60'

TOWN OF ESSER POINT

LOT 6 LOT 5 LOT 4 LOT 3 LOT 2 LOT 1 LOT 38

NW1/4-NW1/4

NO ACCESS PER ESSER POINT

TLE SLOPES

642+99.99 70.60'

647+14.99 70.60'

17 18 19 20 21 22

10' 415' 391.81' 87.44' 60'

640 642 644 646 648 650

℄ STH 83
PI STA 648+51.52
Y 152476.22
X 643629.11
PC STA 647+22.37
PT STA 649+78.15
DELTA -19°32'25"
D 7°38'22"
T 129.15'
L 255.78'
R 750.00'
LCH 254.54'
LCB N 8°03'30" W

L=329.75'
R=981.74'
LCH=328.20'
LCB=N7°54'37"W

NO1°42'43"E

1/16 LINE NO1°28'02"E 1880.52'

SEE TPP SHEET 1330-18-20 4.03

SEE TPP SHEET 1330-18-20 4.04

PC 647+22.37

PI 648+51.52

759.05'

2639.57'

1298.39'

2596.79'

SEC6071
Y=150045.37
X=644902.82
CONC. MON. WITH SEWRPC BRASS CAP

1330.91'

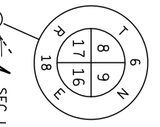
2621.82'

SEC6058
Y=152676.92
X=644957.88
CONC. MON. WITH SEWRPC BRASS CAP

SCALE, FEET
0 50 100

GN

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.



SEC. LINE 784.94' TO TIE N85°59'01"E

SEC6057
Y=152689.67
X=642361.12
CONC. MON. WITH D.O.T. ALUMINUM CAP

℄ CTH E
PI STA 57+52.11
Y 152696.46
X 643297.03
PC STA 56+85.47
PT STA 58+17.54
DELTA -18°55'06"
D 14°19'26"
T 66.64'
L 132.07'
R 400.00'
LCH 131.48'
LCB N 76°31'28" E

NO ACCESS PER ESSER POINT

N86°23'33"E 784.41' TO ℄ CTH E

R ℄ CTH E 56+00.23= SEC. LINE

55+97.63 41.74'

41.82' 10' 55'

80.71' N24°04'07"W

56+25.30 117.55'

S82°11'29"W 66.37'

66' 22

L=32.06'
R=20.00'
LCH=28.74'
LCB=N47°40'57"W

PC 56+85.47

L=33.27'
R=20.00'
LCH=29.57'
LCB=N45°54'10"E

SQUIRE ROAD

59.46'

N01°45'25"W 56+90.19 113.20'

21

N40°32'56"E 101.48'

46.65'

57+54.87 47.58'

41.82'

P157+52.11

949.53'

S89°43'07"E

58 PT 58+17.54

℄ CTH E N6°03'54"E

P159+22.28
Y=152763.24
X=643454.87

N17°28'38"E

N86°26'15"W 209.10'

1167.21'

53.44'

104.08'

60

N17°49'42"W

STH 83 651+76.54= SEC. LINE STH 83 650+67.03= CTH E AND DE 60+00.28

STH 83 AND CTH E
Y=152788.02
X=643528.83

25.18'

PT 649+78.15

650

TLE SLOPES

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.
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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

260 DOC. 1681053
R. 1365, I. 443
PCL. 22

261 DOC. 239901
V. 301, P. 387
PCL. 17,18, 19,20,21&22

DOC. 255919
V. 336, P. 489
PCL. 17,18, 19,20,21&22

DOC. 1681053
R. 1365, I. 443
PCL. 22

CONVEYANCE OF RIGHTS
DOC. 1572977
PCL. 18,19,20, 21&22

264 NO RECORDED EASEMENT
PCL. 22

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.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 3/7/12
Name ROBERT L. DUFFECK
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

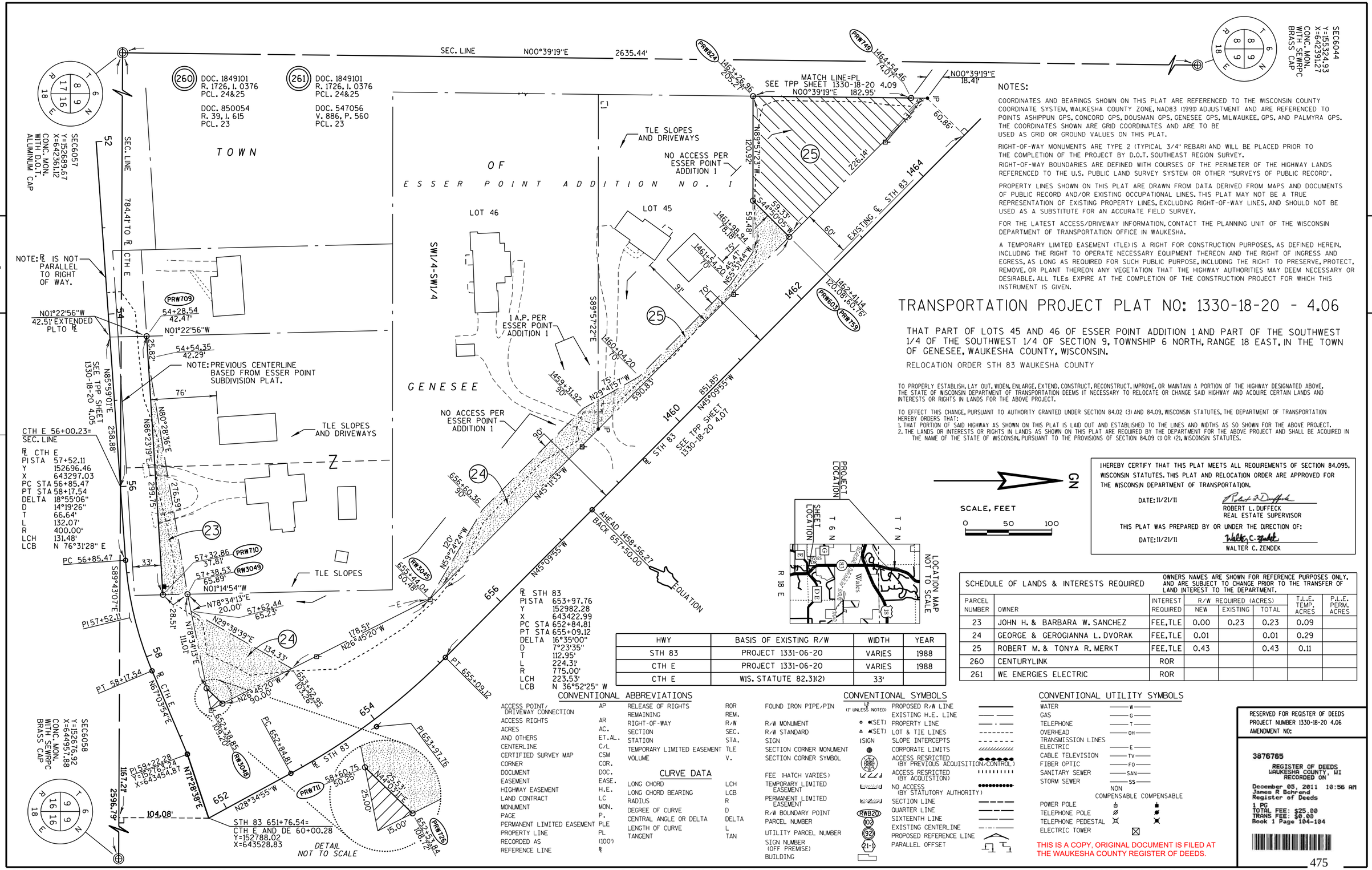
DATE: 3/7/12
Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.05
AMENDMENT NO:

3901190
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
March 12, 2012 12:35 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 121-121

FILE NAME : j:\projects\d2_r_13301883\040405_RP.dgn PLOT DATE : 08-MAR-2012 14:38 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.05



TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.06

THAT PART OF LOTS 45 AND 46 OF ESSER POINT ADDITION 1 AND PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/21/11 — ROBERT L. DUFFECK, REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/21/11 — WALTER C. ZENDEK

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT 1331-06-20	VARIES	1988
CTH E	PROJECT 1331-06-20	VARIES	1988
CTH E	WIS. STATUTE 82.31(2)	33'	

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
23	JOHN H. & BARBARA W. SANCHEZ	FEE,TLE	0.00	0.23	0.23	0.09	
24	GEORGE & GEROGIANNA L. DVORAK	FEE,TLE	0.01		0.01	0.29	
25	ROBERT M. & TONYA R. MERKT	FEE,TLE	0.43		0.43	0.11	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℞		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

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 RESRICTED (BY PREVIOUS ACQUISITION/CONTROL)
FEE (HATCH VARIES)	ACCESS RESRICTED (BY ACQUISITION)
TEMPORARY LIMITED EASEMENT	NO ACCESS (BY STATUTORY AUTHORITY)
PERMANENT LIMITED EASEMENT	SECTION LINE
R/W BOUNDARY POINT	QUARTER LINE
PARCEL NUMBER	SIXTEENTH LINE
UTILITY PARCEL NUMBER	EXISTING CENTERLINE
SIGN NUMBER (OFF PREMISE)	PROPOSED REFERENCE LINE
BUILDING	PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD	OH
TRANSMISSION LINES	
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

NON COMPENSABLE COMPENSABLE

POWER POLE
TELEPHONE POLE
TELEPHONE PEDESTAL
ELECTRIC TOWER

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.06
AMENDMENT NO:

3876765
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
December 05, 2011 10:56 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 104-104

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

FILE NAME : j:\projects\d2_r_13301883\040406_RP.dgn PLOT DATE : 05-DEC-2011 16:02 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.06

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.07 AMENDMENT 1

AMENDS TPP SHEET 1330-18-20-4.07 RECORDED IN BOOK 1, PAGE 105 AS DOCUMENT NUMBER 3876766 BY REVISING PARCELS 260 AND 261.

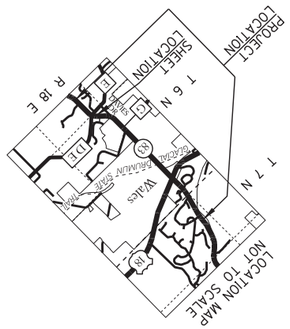
THAT PART OF LOT 49 IN THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4, LOT 50 IN THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4, AND LOTS 51, 52, 53, AND 54 IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 ALL IN ESSER POINT ADDITION NUMBER 2, SECTION 9, TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

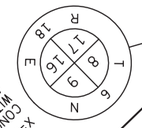
RELOCATION ORDER STH 83 WAUKESHA COUNTY

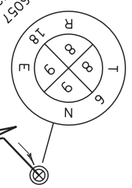
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

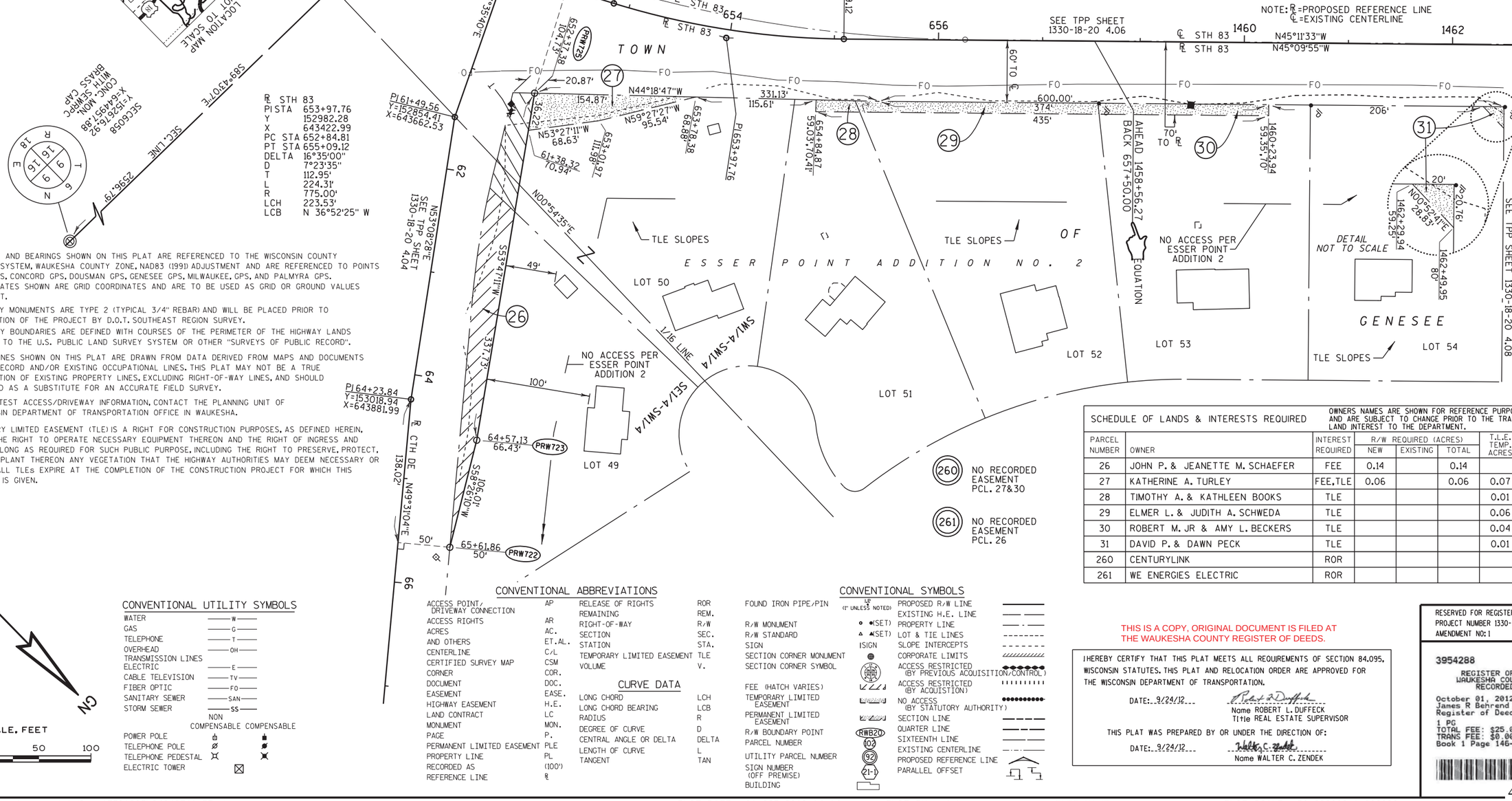
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	ESSER POINT ADDITION NO. 2	VARIES	1993
CTH DE	ESSER POINT ADDITION NO. 2	VARIES	1993









NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

GN

SCALE: FEET
0 50 100

CONVENTIONAL UTILITY SYMBOLS

		NON COMPENSABLE	COMPENSABLE
WATER	W		
GAS	G		
TELEPHONE	T		
OVERHEAD TRANSMISSION LINES	OH		
ELECTRIC	E		
CABLE TELEVISION	TV		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		
POWER POLE			
TELEPHONE POLE			
TELEPHONE PEDESTAL			
ELECTRIC TOWER			

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
		REMAINING	REM.
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W
ACRES	AC.	SECTION	SEC.
AND OTHERS	ET.AL.	STATION	STA.
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE
CERTIFIED SURVEY MAP	CSM	VOLUME	V.
CORNER	COR.		
DOCUMENT	DOC.	**CURVE DATA**	
EASEMENT	EASE.	LONG CHORD	LCH
HIGHWAY EASEMENT	H.E.	LONG CHORD BEARING	LCB
LAND CONTRACT	LC.	RADIUS	R
MONUMENT	MON.	DEGREE OF CURVE	D
PAGE	P.	CENTRAL ANGLE OR DELTA	DELTA
PERMANENT LIMITED EASEMENT	PLE	LENGTH OF CURVE	L
PROPERTY LINE	PL	TANGENT	TAN
RECORDED AS	(100')		
REFERENCE LINE	℞		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LD (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	(SECTION CORNER SYMBOL)	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	103	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
26	JOHN P. & JEANETTE M. SCHAEFER	FEE	0.14		0.14		
27	KATHERINE A. TURLEY	FEE,TLE	0.06		0.06	0.07	
28	TIMOTHY A. & KATHLEEN BOOKS	TLE				0.01	
29	ELMER L. & JUDITH A. SCHWEDA	TLE				0.06	
30	ROBERT M. JR & AMY L. BECKERS	TLE				0.04	
31	DAVID P. & DAWN PECK	TLE				0.01	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/24/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/24/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.07
AMENDMENT NO: 1

3954288
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
October 01, 2012 11:40 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 146-146

FILE NAME : j:\projects\d2_r_13301883\040407A1_RP.dgn PLOT DATE : 01-OCT-2012 14:14 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.07 AMENDMENT 1

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.07

THAT PART OF LOT 49 IN THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4, LOT 50 IN THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4, AND LOTS 51, 52, 53, AND 54 IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 ALL IN ESSER POINT ADDITION NUMBER 2, SECTION 9, TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

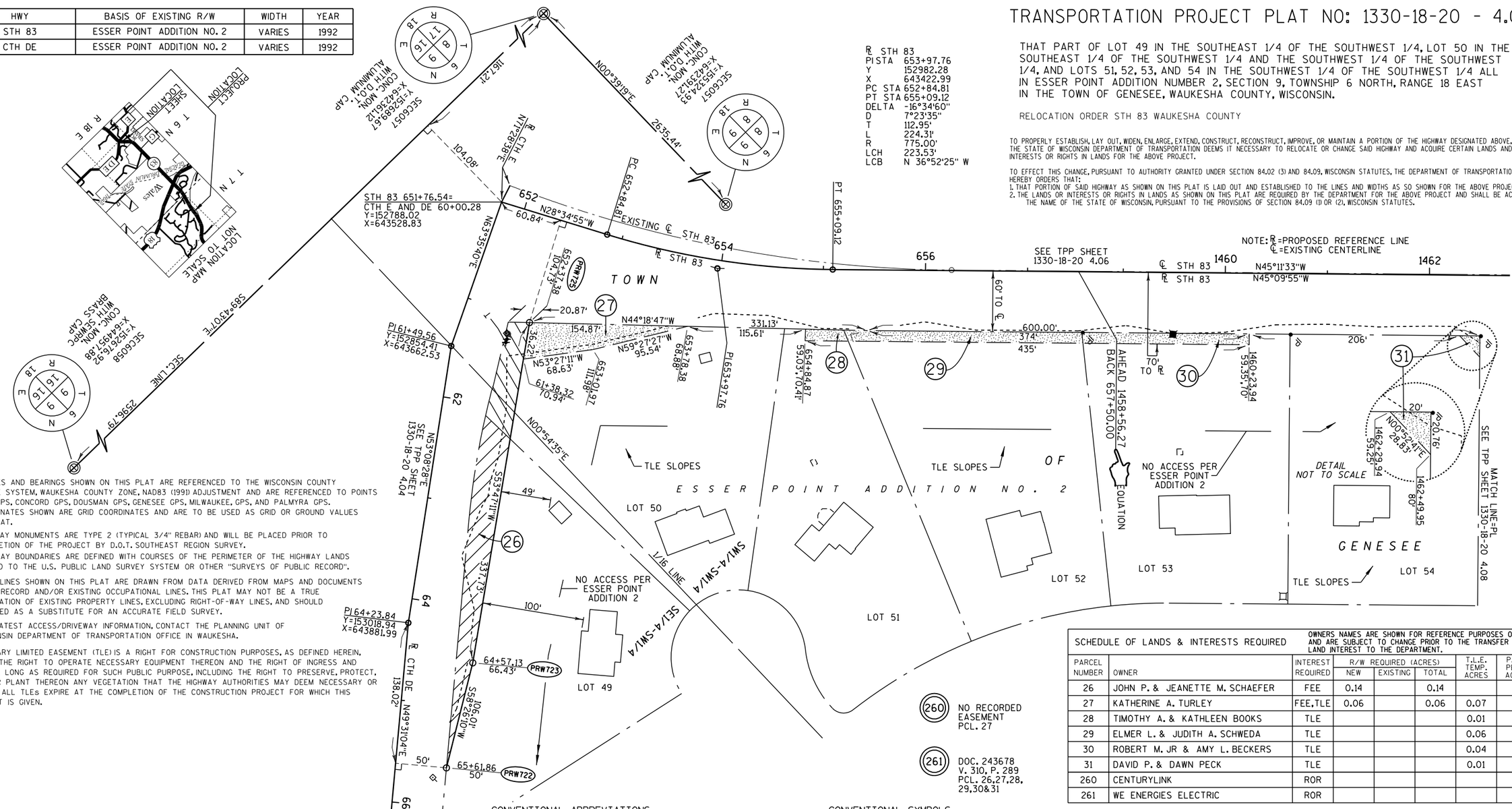
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	ESSER POINT ADDITION NO. 2	VARIES	1992
CTH DE	ESSER POINT ADDITION NO. 2	VARIES	1992

R STH 83
PISTA 653+97.76
Y 152982.28
X 643422.99
PC STA 652+84.81
PT STA 655+09.12
DELTA -16°34'60"
D 7°23'35"
T 112.95'
L 224.31'
R 775.00'
LCH 223.53'
LCB N 36°52'25" W

NOTE: R =PROPOSED REFERENCE LINE
℄ =EXISTING CENTERLINE



SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
26	JOHN P. & JEANETTE M. SCHAEFER	FEE	0.14		0.14		
27	KATHERINE A. TURLEY	FEE,TLE	0.06		0.06	0.07	
28	TIMOTHY A. & KATHLEEN BOOKS	TLE				0.01	
29	ELMER L. & JUDITH A. SCHWEDA	TLE				0.06	
30	ROBERT M. JR & AMY L. BECKERS	TLE				0.04	
31	DAVID P. & DAWN PECK	TLE				0.01	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

GN

SCALE. FEET
0 50 100

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
		REMAINING	REM.
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W
ACRES	AC.	SECTION	SEC.
AND OTHERS	ET.AL.	STATION	STA.
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE
CERTIFIED SURVEY MAP	CSM	VOLUME	V.
CORNER	COR.		
DOCUMENT	DOC.	**CURVE DATA**	
EASEMENT	EASE.	LONG CHORD	LCH
HIGHWAY EASEMENT	H.E.	LONG CHORD BEARING	LCB
LAND CONTRACT	LC	RADIUS	R
MONUMENT	MON.	DEGREE OF CURVE	D
PAGE	P.	CENTRAL ANGLE OR DELTA	DELTA
PERMANENT LIMITED EASEMENT	PLE	LENGTH OF CURVE	L
PROPERTY LINE	PL	TANGENT	TAN
RECORDED AS	(100')		
REFERENCE LINE	℄		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LD (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		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	103	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/21/11 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/21/11 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.07
AMENDMENT NO:

3876766
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
December 05, 2011 10:56 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 105-105

FILE NAME : j:\projects\d2_r_13301883\040407_RP.dgn PLOT DATE : 06-DEC-2011 08:01 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.07

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.08 AMENDMENT 1

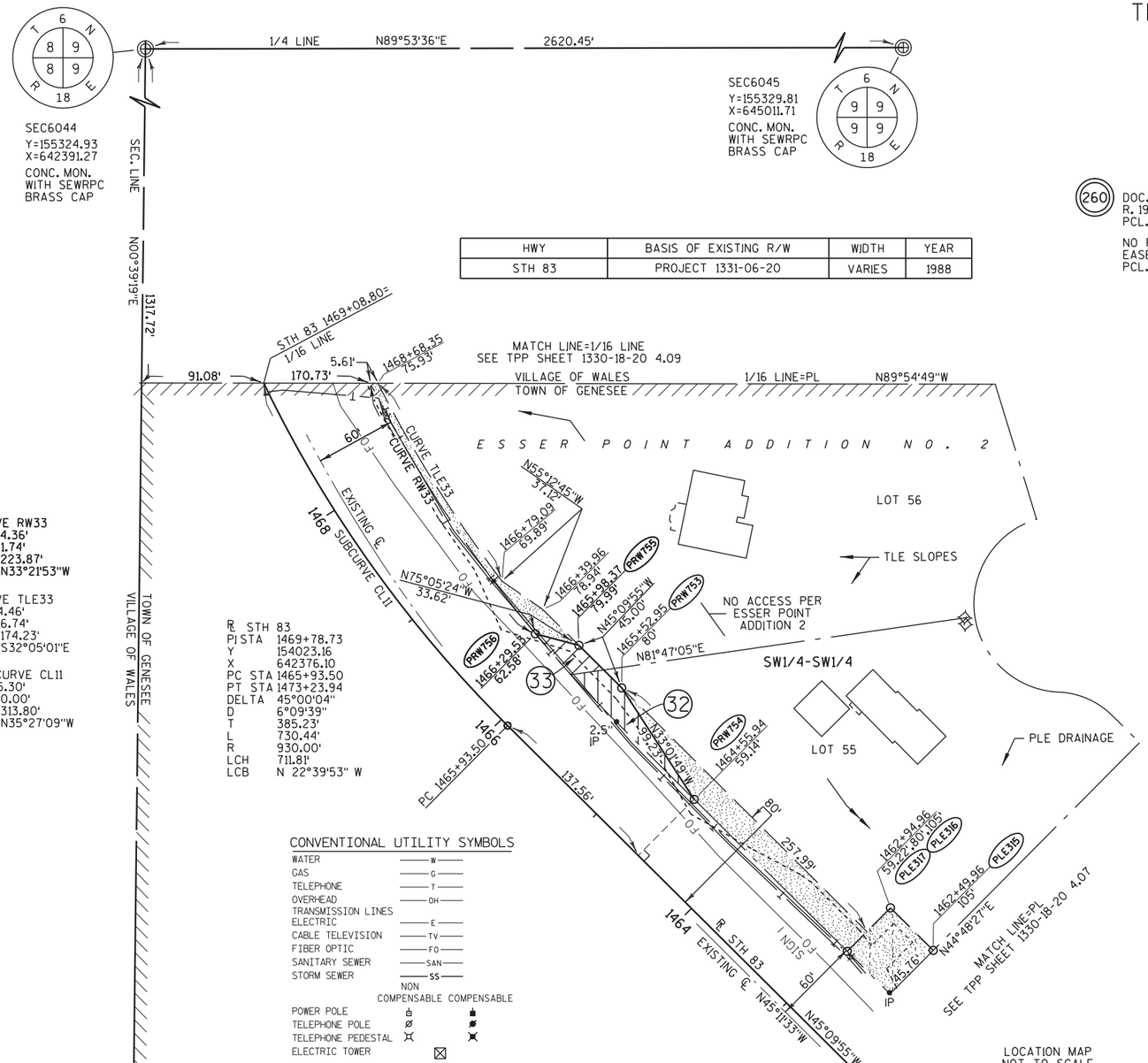
AMENDS TPP SHEET 1330-18-20-4.08 RECORDED IN BOOK 1, PAGE 106 AS DOCUMENT NUMBER 3876767 BY REVISING PARCEL 260 AND ELIMINATING PARCEL 261.

THAT PART OF LOTS 55 AND 56 OF ESSER POINT ADDITION NUMBER 2 IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT 1331-06-20	VARIES	1988

CURVE RW33
L=224.36'
R=981.74'
LCH=223.87'
LCB=N33°21'53"W

CURVE TLE33
L=174.46'
R=976.74'
LCH=174.23'
LCB=S32°05'01"E

SUBCURVE CL11
L=315.30'
R=930.00'
LCH=313.80'
LCB=N35°27'09"W

R	STH 83
PI STA	1469+78.73
Y	154023.16
X	642376.10
PC STA	1465+93.50
PT STA	1473+23.94
DELTA	45°00'04"
D	6°09'39"
T	385.23'
L	730.44'
R	930.00'
LCH	711.81'
LCB	N 22°39'53" W

CONVENTIONAL UTILITY SYMBOLS

		NON COMPENSABLE	COMPENSABLE
WATER	W		
GAS	G		
TELEPHONE	T		
OVERHEAD TRANSMISSION LINES ELECTRIC	OH		
ELECTRIC	E		
CABLE TELEVISION	TV		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		
POWER POLE			
TELEPHONE POLE			
TELEPHONE PEDESTAL			
ELECTRIC TOWER			

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
32	KELLEY J. & RENEE S. REED	FEE,PLE, TLE	0.04		0.04	0.10	0.05
33	BONNIE L. HEIN	FEE,TLE	0.01		0.01	0.05	
260	CENTURYLINK	ROR					

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS REMAINING	ROR	FOUND IRON PIPE/PIN	
ACCESS RIGHTS	AR	RIGHT-OF-WAY	REM.	R/W MONUMENT	
ACRES	AC.	SECTION	R/W	R/W STANDARD	
AND OTHERS	ET.AL.	STATION	SEC.	SIGN	
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	STA.	SECTION CORNER MONUMENT	
CERTIFIED SURVEY MAP	CSM	VOLUME	TLE	SECTION CORNER SYMBOL	
CORNER	COR.		V.		
DOCUMENT	DOC.			FEE (HATCH VARIES)	
EASEMENT	EASE.			TEMPORARY LIMITED EASEMENT	
HIGHWAY EASEMENT	H.E.			PERMANENT LIMITED EASEMENT	
LAND CONTRACT	LC			R/W BOUNDARY POINT	
MONUMENT	MON.			PARCEL NUMBER	
PAGE	P.			UTILITY PARCEL NUMBER	
PERMANENT LIMITED EASEMENT	PLE			SIGN NUMBER (OFF PREMISE)	
PROPERTY LINE	PL			BUILDING	
RECORDED AS	(100')				
REFERENCE LINE	℄				

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

LP (1" UNLESS NOTED)	PROPOSED R/W LINE
○ (SET)	EXISTING H.E. LINE
△ (SET)	PROPERTY LINE
SIGN	LOT & TIE LINES
	SLOPE INTERCEPTS
	CORPORATE LIMITS
	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
	ACCESS RESTRICTED (BY ACQUISITION)
	NO ACCESS (BY STATUTORY AUTHORITY)
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	EXISTING CENTERLINE
	PROPOSED REFERENCE LINE
	PARALLEL OFFSET

RWB20 / 102 / 92 / 21-1

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4 " REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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".

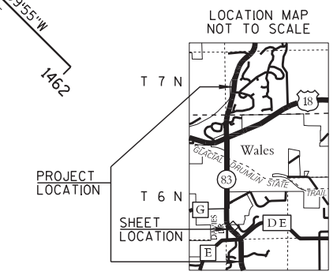
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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.

LOCATION MAP
NOT TO SCALE



GN

SCALE, FEET
0 50 100

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/24/12
Name ROBERT L. DUFFECK
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/24/12
Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.08
AMENDMENT NO: 1

3954289
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
October 01, 2012 11:40 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 147-147

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.08

THAT PART OF LOTS 55 AND 56 OF ESSER POINT ADDITION NUMBER 2 IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4 " REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

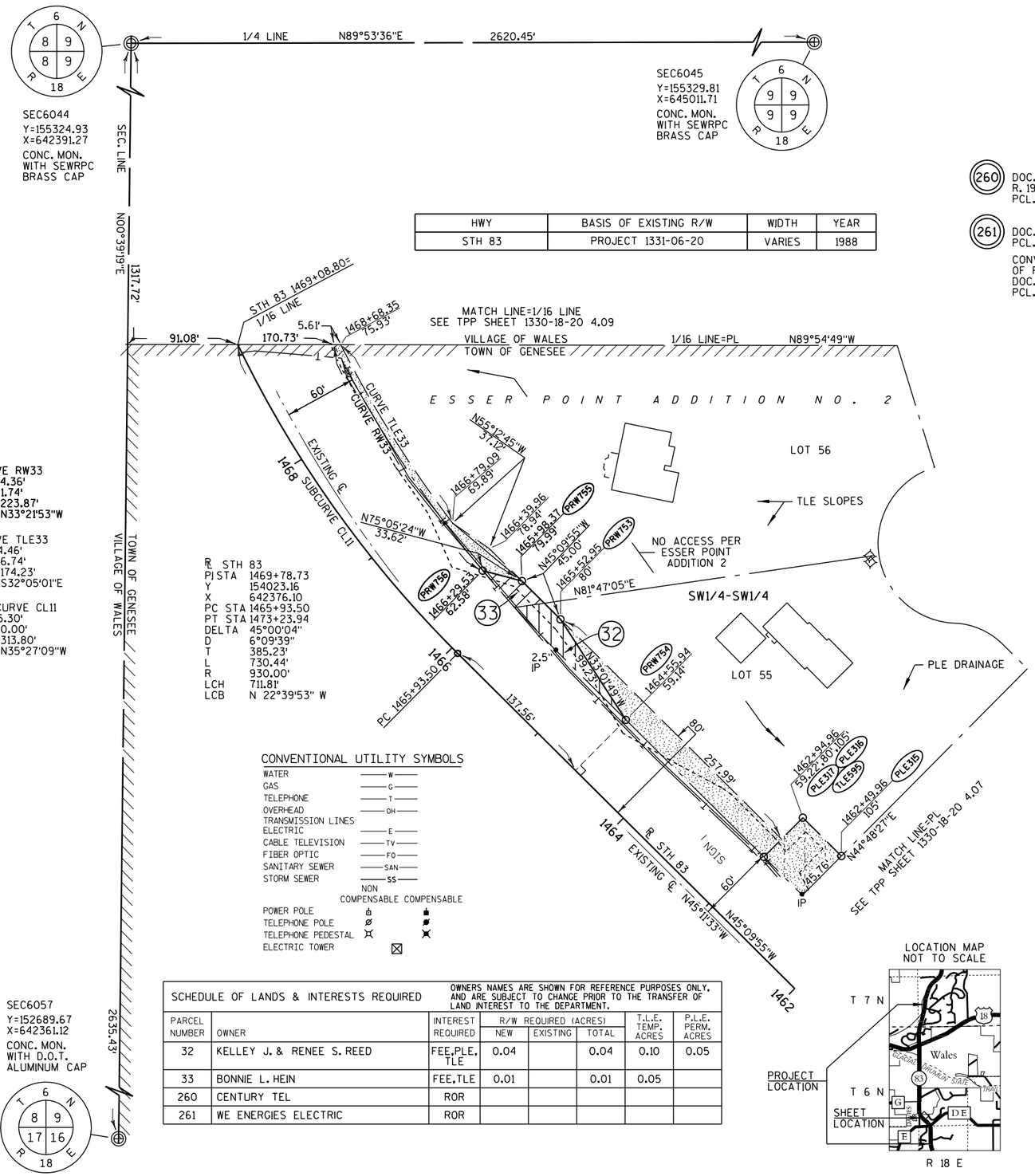
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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.



HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT 1331-06-20	VARIES	1988

(260) DOC. 1982492 R. 1973, I. 457 PCL. 33

(261) DOC. 243678 PCL. 32
CONVEYANCE OF RIGHTS DOC. 1572977 PCL. 33

CONVENTIONAL UTILITY SYMBOLS

		NON COMPENSABLE	COMPENSABLE
WATER	W		
GAS	G		
TELEPHONE	T		
OVERHEAD TRANSMISSION LINES ELECTRIC	OH		
ELECTRIC	E		
CABLE TELEVISION	TV		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		
POWER POLE			
TELEPHONE POLE			
TELEPHONE PEDESTAL			
ELECTRIC TOWER			

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
32	KELLEY J. & RENEE S. REED	FEE,PLE, TLE	0.04		0.04	0.10	0.05
33	BONNIE L. HEIN	FEE,TLE	0.01		0.01	0.05	
260	CENTURY TEL	ROR					
261	WE ENERGIES ELECTRIC	ROR					

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR	FOUND IRON PIPE/PIN	
ACCESS RIGHTS	AR	REMAINING	REM.	R/W MONUMENT	
ACRES	AC.	RIGHT-OF-WAY	R/W	R/W STANDARD	
AND OTHERS	ET.AL.	SECTION	SEC.	SIGN	
CENTERLINE	C/L	STATION	STA.	SECTION CORNER MONUMENT	
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE	SECTION CORNER SYMBOL	
CORNER	COR.	VOLUME	V.		
DOCUMENT	DOC.			FEE (HATCH VARIES)	
EASEMENT	EASE.			TEMPORARY LIMITED EASEMENT	
HIGHWAY EASEMENT	H.E.			PERMANENT LIMITED EASEMENT	
LAND CONTRACT	LC			R/W BOUNDARY POINT	
MONUMENT	MON.			PARCEL NUMBER	
PAGE	P.			UTILITY PARCEL NUMBER	
PERMANENT LIMITED EASEMENT	PLE			SIGN NUMBER (OFF PREMISE)	
PROPERTY LINE	PL			BUILDING	
RECORDED AS	(100')				
REFERENCE LINE	℄				

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

LP (1" UNLESS NOTED)	PROPOSED R/W LINE
○ (SET)	EXISTING H.E. LINE
△ (SET)	PROPERTY LINE
ISIGN	LOT & TIE LINES
	SLOPE INTERCEPTS
	CORPORATE LIMITS
	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
	ACCESS RESTRICTED (BY ACQUISITION)
	NO ACCESS (BY STATUTORY AUTHORITY)
RWB20 102 92 21-1	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	EXISTING CENTERLINE
	PROPOSED REFERENCE LINE
	PARALLEL OFFSET

LOCATION MAP
NOT TO SCALE

GN

SCALE, FEET
0 50 100

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/22/11 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/22/11 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.08
AMENDMENT NO:

3876767
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
December 05, 2011 10:56 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 106-106

FILE NAME : j:\projects\d2_r_13301883\040408_RP.dgn PLOT DATE : 06-DEC-2011 08:10 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.08

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.09 AMENDMENT 1

AMENDS TPP SHEET 1330-18-20-4.09 RECORDED IN BOOK 1, PAGE 107 AS DOCUMENT NUMBER 3876768 BY REVISING PARCELS 260, 261 AND 262 AND ADDING PARCEL 264.

THAT PART OF LOTS 7 AND 8 OF PORTHAMEL IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 8, LOT 1 OF CSM 9738 IN THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9 IN THE VILLAGE OF WALES, AND PART OF LOT 44 OF ESSER POINT ADDITION NO. 1 IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9, IN THE TOWN OF GENESEE, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
34	EUGENE S. & CINDY L. FRECHETTE	FEE,TLE	0.10		0.10	0.04	
35	VILLAGE OF WALES	TLE				0.01	
36	JEFFREY A. LAFRATTA	TLE				0.02	
37	LAKELAND PROPERTY MANAGEMENT	FEE,TLE	0.05		0.05	0.07	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
262	AT&T CORP.	ROR					
264	TIME WARNER CABLE	ROR					

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

SEC6056
Y=152725.33
X=639729.92
CONC. MON. WITH SEWRPC BRASS CAP

SEC6057
Y=152689.67
X=642361.12
CONC. MON. WITH D.O.T. ALUMINUM CAP

SEC6058
Y=152676.92
X=644957.88
CONC. MON. WITH SEWRPC BRASS CAP

SEC6044
Y=155324.93
X=642391.27
CONC. MON. WITH SEWRPC BRASS CAP

R STH 83
PI STA 1469+78.73
Y 154023.16
X 642376.10
PC STA 1465+93.50
PT STA 1473+23.94
DELTA 45°00'04"
D 6°09'39"
T 385.23'
L 730.44'
R 930.00'
LCH 711.81'
LCB N 22°39'53" W

(262) CONVEYANCE OF RIGHTS DOC. 1518943 R. 1078, I. 173 PCL. 35

(260) DOC. 1849101 R. 1726, I. 0376 PCL. 34
DOC. 1585113 R. 1190, I. 0806 PCL. 35
DOC. 1276389 R. 639, I. 1176 PCL. 36
DOC. 1276388 R. 639, I. 1174 PCL. 37
CONVEYANCE OF RIGHTS DOC. 1514210 R. 1069, I. 125 PCL. 34&35
DOC. 671209 V. 1062, P. 563 PCL. 36&37

(261) DOC. 1849101 R. 1726, I. 0376 PCL. 34
DOC. 338903 V. 521, P. 357 PCL. 36&37
DOC. 1276389 R. 639, I. 1176 PCL. 36
DOC. 1276388 R. 639, I. 1174 PCL. 37

(264) NO RECORDED EASEMENT PCL. 34

NOTE: 1 A.P. PER CSM 9738

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PORTHAMEL	60'	1984
STH 83	PROJECT 1331-06-20	60'	1988
PORTHAMEL COURT	PORTHAMEL	66'	1984

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (Ø UNLESS NOTED)
R/W MONUMENT (●(SET))
R/W STANDARD (▲(SET))
SIGN (ISIGN)
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT (RWB20)
PARCEL NUMBER (102)
UTILITY PARCEL NUMBER (92)
SIGN NUMBER (OFF PREMISE) (21-1)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/24/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/24/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.09
AMENDMENT NO: 1

3954290
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
October 01, 2012 11:40 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 148-148

480

FILE NAME : j:\projects\d2_r_13301883\040409A1_RP.dgn
PLOT DATE : 01-OCT-2012 14:18
PLOT BY : dotwxz
PLOT NAME :
PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.09 AMENDMENT 1

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.09

THAT PART OF LOTS 7 AND 8 OF PORTHAMEL IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 8, LOT 1 OF CSM 9738 IN THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9 IN THE VILLAGE OF WALES, AND PART OF LOT 44 OF ESSER POINT ADDITION NO. 1 IN THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9, IN THE TOWN OF GENESEE, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY. AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
34	EUGENE S. & CINDY L. FRECHETTE	FEE,TLE	0.10		0.10	0.04	
35	VILLAGE OF WALES	TLE				0.01	
36	JEFFREY A. LAFRATTA	TLE				0.02	
37	LAKELAND PROPERTY MANAGEMENT	FEE,TLE	0.05		0.05	0.07	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
262	AT&T CORP.	ROR					

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

SEC6056 Y=152725.33 X=639729.92 CONC. MON. WITH SEWRPC BRASS CAP

SEC6057 Y=152689.67 X=642361.12 CONC. MON. WITH D.O.T. ALUMINUM CAP

SEC6058 Y=152676.92 X=644957.88 CONC. MON. WITH SEWRPC BRASS CAP

SEC6044 Y=155324.93 X=642391.27 CONC. MON. WITH SEWRPC BRASS CAP

R STH 83
PI STA 1469+78.73
Y 154023.16
X 642376.10
PC STA 1465+93.50
PT STA 1473+23.94
DELTA 45°00'04"
D 6°09'39"
T 385.23'
L 730.44'
R 930.00'
LCH 711.81'
LCB N 22°39'53" W

SEC. LINE S89°13'25"E 2631.44'

SEC. LINE S89°43'07"E 2656.79'

DAVIES DRIVE 60'

VILLAGE OF WALES
TOWN OF GENESEE

NOTE: 1 A.P. PER CSM 9738

TLE SLOPES

NO ACCESS PER PORTHAMEL

NO ACCESS PER ESSER POINT ADDITION NO. 1

ESSER POINT ADDITION NO. 1

LOT 44

(260) DOC. 1849101 R. 1726, I. 0376 PCL. 34
DOC. 1585113 R. 1190, I. 0806 PCL. 35
DOC. 1276389 R. 639, I. 1176 PCL. 36
DOC. 1276388 R. 639, I. 1174 PCL. 37
CONVEYANCE OF RIGHTS DOC. 1514210 PCL. 34&35

(261) DOC. 1849101 R. 1726, I. 0376 PCL. 34
DOC. 338903 V. 521, P. 357 PCL. 36&37
DOC. 1276389 R. 639, I. 1176 PCL. 36
DOC. 1276388 R. 639, I. 1174 PCL. 37
CONVEYANCE OF RIGHTS DOC. 1572977 PCL. 30&35

(262) DOC. 671209 V. 1062, P. 563 PCL. 37

PRW749 1464+54.46 74.07' S59°44'47"E 63.23'
PRW750 1465+15.71 90' S89°57'23"E
PRW751 1465+76.84 90' S29°43'35"E 71.56'
PRW752 1466+76.30 64.99' S45°11'33"E 37.50'
1466+42.07 72.32' 188.34' 152.20'
1468+12.92 95.56' N44°48'26"E .40 .75" ROD W/ CAP

MATCH LINE=PL SEE TPP SHEET 1330-18-20 4.06

PI 1469+78.73

1/16 LINE=PL

S89°12'19"E 1801.16'

S89°54'49"E 170.72'

1/16 LINE=PL VILLAGE OF WALES / TOWN OF GENESEE

MATCH LINE SEE TPP SHEET 1330-18-20 4.08

STH 83 1469+08.80= 1/16 LINE

NE1/4-SE1/4

SW1/4-SW1/4

NW1/4-SW1/4

VILLAGE OF WALES

TOWN OF GENESEE

PORTHAMEL

LOT 7 LOT 8

N17°59'57"W 1471+99.66 64.99' 1472+06.51 89.17'

PRW618 PRW619 PRW617

1471+05.96 85.36' 1472+92.79 70.28'

TLE SLOPES

85' TO SEC. LINE 75' TO SEC. LINE 68'

49+14.95 33' 49+24.95 33'

PT 48+49.97

SEE TPP SHEET 1330-18-20 4.10

PORTHAMEL COURT N89°20'54"W 67.74'

STH 83 1474+27.46= PORTHAMEL COURT 49+92.69 N00°09'51"W 1476

PORTHAMEL COURT 49+99.95= SEC. LINE

2635.43'

60' TO SEC. LINE

N00°09'51"W

N00°39'19"E 425.05'

164.28'

T 110.00' S12°28'52"E 103.25'

S07°58'18"E 100.00'

S00°39'19"W 105.00' 203.87'

36 37

1160.35'

1470 R STH 83

L=470.74' R=981.74' LCH=466.25' LCB=N13°04'53"W

N00°39'19"E

PT 1473+23.94

STH 83 1472+32.60= SEC. LINE

CURVE TLE35 L=117.73' R=981.74' LCH=117.66' LCB=N23°22'57"W

CURVE TLE35 N25°50'26"W 120'

1468+98.81 72.52'

35

LOT 1 CSM 9738 V.90 P.58-60

TLE SLOPES AND DRIVEWAY

REFERENCE LINE TIE DETAIL NOT TO SCALE

PT STH 83 N00°09'51"W 5.79'

SEC. LINE 1718.76' TO SEC. COR. N00°39'19"E

MATCH LINE=PL SEE TPP SHEET 1330-18-20 4.10

S89°20'39"E

1468 OF GENESEE

1466 PC 1465+93.50 N45°09'55"W 126.22'

N00°39'19"E 18.41' 60.86'

1 A.P. PER CSM 9738

PROJECT LOCATION

SHEET LOCATION

T 6 N T 7 N R 18 E

LOCATION MAP NOT TO SCALE

GN

SCALE, FEET
0 50 100

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PORTHAMEL	60'	1984
STH 83	PROJECT 1331-06-20	60'	1988
PORTHAMEL COURT	PORTHAMEL	66'	1984

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LS (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		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/21/11 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/21/11 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.09
AMENDMENT NO:

3876768
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
December 05, 2011 10:56 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 107-107

FILE NAME : j:\projects\d2_r_13301883\040409_RP.dgn PLOT DATE : 06-DEC-2011 08:19 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

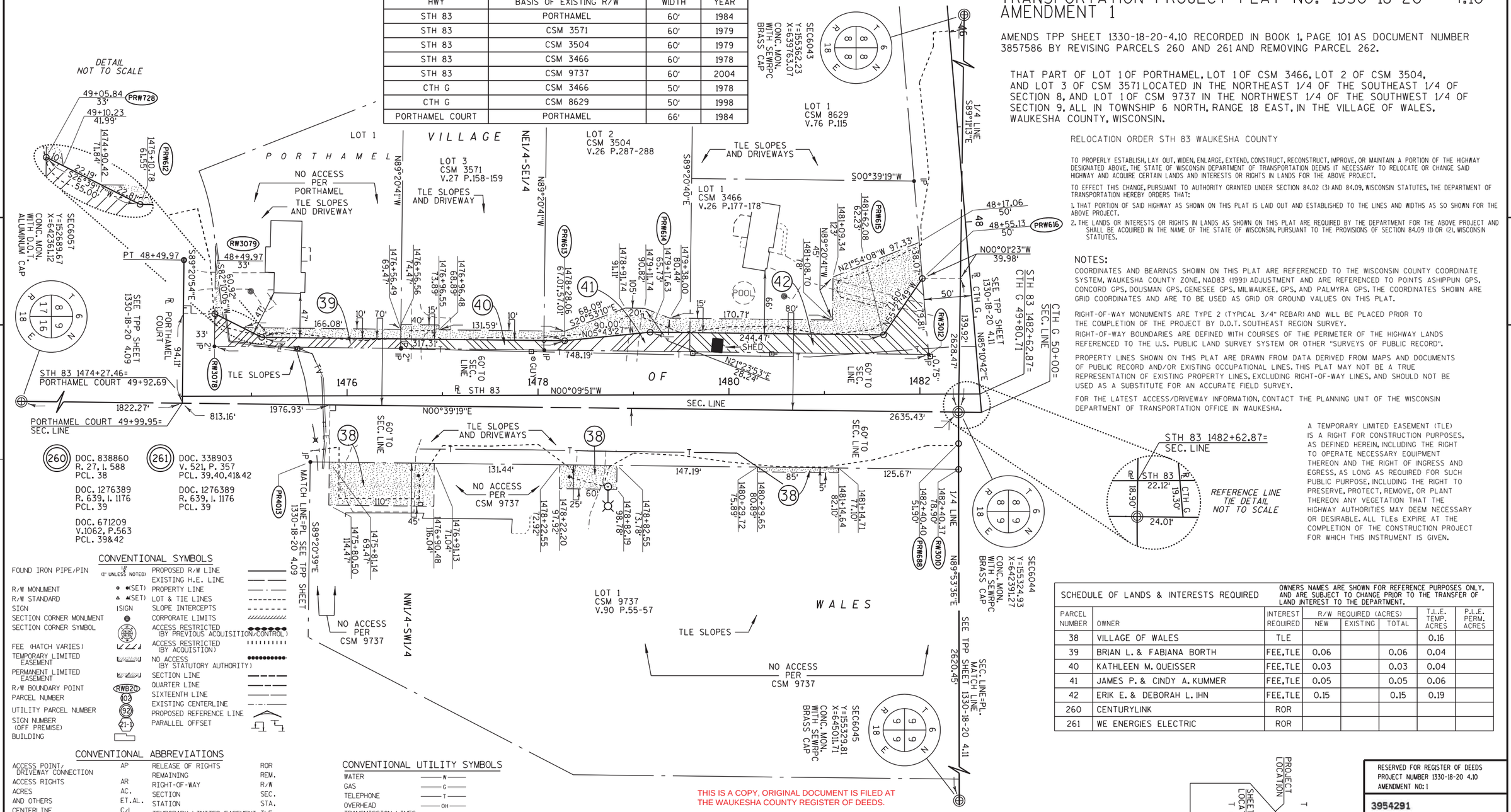
CONST. I.D. 1330-18-70 1330-18-20 4.09

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.10 AMENDMENT 1

AMENDS TPP SHEET 1330-18-20-4.10 RECORDED IN BOOK 1, PAGE 101 AS DOCUMENT NUMBER 3857586 BY REVISING PARCELS 260 AND 261 AND REMOVING PARCEL 262.

THAT PART OF LOT 1 OF PORTHAMEL, LOT 1 OF CSM 3466, LOT 2 OF CSM 3504, AND LOT 3 OF CSM 3571 LOCATED IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 8, AND LOT 1 OF CSM 9737 IN THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PORTHAMEL	60'	1984
STH 83	CSM 3571	60'	1979
STH 83	CSM 3504	60'	1979
STH 83	CSM 3466	60'	1978
STH 83	CSM 9737	60'	2004
CTH G	CSM 3466	50'	1978
CTH G	CSM 8629	50'	1998
PORTHAMEL COURT	PORTHAMEL	66'	1984



(260) DOC. 838860 R. 27, I. 588 PCL. 38
DOC. 1276389 R. 639, I. 1176 PCL. 39
DOC. 671209 V.1062, P.563 PCL. 398&42

(261) DOC. 338903 V. 521, P. 357 PCL. 39,40,41&42
DOC. 1276389 R. 639, I. 1176 PCL. 39

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⅝" (1" UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	●(SET)	EXISTING H.E. LINE	
R/W STANDARD	▲(SET)	PROPERTY LINE	
SIGN	SIGN	LOT & TIE LINES	
SECTION CORNER MONUMENT		SLOPE INTERCEPTS	
SECTION CORNER SYMBOL		CORPORATE LIMITS	
		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

NON COMPENSABLE	COMPENSABLE
POWER POLE	
TELEPHONE POLE	
TELEPHONE PEDESTAL	
ELECTRIC TOWER	

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/24/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/24/12 — Name WALTER C. ZENDEK

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
38	VILLAGE OF WALES	TLE				0.16	
39	BRIAN L. & FABIANA BORTH	FEE,TLE	0.06		0.06	0.04	
40	KATHLEEN M. QUEISSER	FEE,TLE	0.03		0.03	0.04	
41	JAMES P. & CINDY A. KUMMER	FEE,TLE	0.05		0.05	0.06	
42	ERIK E. & DEBORAH L. IHN	FEE,TLE	0.15		0.15	0.19	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.10
AMENDMENT NO: 1

3954291
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
October 01, 2012 11:40 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 149-149

FILE NAME : j:\projects\d2_r_13301883\040410A1_RP.dgn
PLOT DATE : 01-OCT-2012 14:21
PLOT BY : dotwxz
PLOT NAME :
PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.10 AMENDMENT 1

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.10

THAT PART OF LOT 1 OF PORTHAMEL, LOT 1 OF CSM 3466, LOT 2 OF CSM 3504, AND LOT 3 OF CSM 3571 LOCATED IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 8, AND LOT 1 OF CSM 9737 IN THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 9, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PORTHAMEL	60'	1984
STH 83	CSM 3571	60'	1979
STH 83	CSM 3504	60'	1979
STH 83	CSM 3466	60'	1978
STH 83	CSM 9737	60'	2004
CTH G	CSM 3466	50'	1978
CTH G	CSM 8629	50'	1998
PORTHAMEL COURT	PORTHAMEL	66'	1984

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.
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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

DETAIL NOT TO SCALE

SEC6057 Y=152689.67 X=642361.12 CONC. MON. WITH D.O.T. ALUMINUM CAP

SEC6043 Y=155362.23 X=639763.07 CONC. MON. WITH SEWRPC BRASS CAP

SEC6044 Y=155324.93 X=642391.27 CONC. MON. WITH SEWRPC BRASS CAP

SEC6045 Y=155329.81 X=645011.71 CONC. MON. WITH SEWRPC BRASS CAP

SEE TPP SHEET 1330-18-20 4.09

SEE TPP SHEET 1330-18-20 4.11

SEE TPP SHEET 1330-18-20 4.10

PORTHAMEL COURT

STH 83 1474+27.46= PORTHAMEL COURT 49+92.69

PORTHAMEL COURT 49+99.95= SEC. LINE

CTH G 50+00= SEC. LINE

STH 83 1482+62.87= SEC. LINE

PT 48+49.97

1822.27'

1976.93'

813.16'

2635.43'

2628.47'

2620.45'

748.19'

317.31'

244.47'

170.71'

166.08'

131.59'

131.44'

147.19'

125.67'

94.11'

139.92'

79.81'

60.92'

68.09'

90.00'

38.07'

97.33'

26.24'

20.75'

N00°09'51"W

N00°39'19"E

N00°01'23"W 39.98'

N85°10'42"E

N89°53'36"E

N89°20'41"W

S89°20'54"E

S89°20'39"E

S00°39'19"W

S89°20'40"E

S82°10'06"W

S20°53'10"E

N05°43'27"W

N21°54'08"W

N21°23'53"E

1/4 LINE S89°11'13"E

MATCH LINE=PL. SEC. LINE MATCH LINE SHEET 1330-18-20 4.11

MATCH LINE=PL SEE TPP SHEET 1330-18-20 4.09

NO ACCESS PER PORTHAMEL TLE SLOPES AND DRIVEWAY

NO ACCESS PER CSM 9737

TLE SLOPES AND DRIVEWAYS

TLE SLOPES

POOL

LOT 1 CSM 8629 V.76 P.115

LOT 1 CSM 3466 V.26 P.177-178

LOT 2 CSM 3504 V.26 P.287-288

LOT 3 CSM 3571 V.27 P.158-159

LOT 1 CSM 9737 V.90 P.55-57

PORTHAMEL

VILLAGE OF WALES

NE1/4-SE1/4

NW1/4-SW1/4

260 DOC. 838860 R. 27, I. 588 PCL. 38
DOC. 1276389 PCL. 39

261 DOC. 338903 V. 521, P. 357 PCL. 39,40,41&42
DOC. 1276389 PCL. 39
DOC. 212715 PCL. 42

262 DOC. 666549 V. 1055, P. 456 PCL. 38
DOC. 671249 V.1062, P.564 PCL. 39,40,41,42

RW3079 RW3078 RW3012 RW3010 PRW728 PRW642 PRW613 PRW614 PRW615 PRW616 PR4013 PRW688

REFERENCE LINE TIE DETAIL NOT TO SCALE

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT (SET)
R/W STANDARD (SET)
SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
38	VILLAGE OF WALES	TLE				0.16	
39	BRIAN L. & FABIANA BORTH	FEE,TLE	0.06		0.06	0.04	
40	KATHLEEN M. QUEISSER	FEE,TLE	0.03		0.03	0.04	
41	JAMES P. & CINDY A. KUMMER	FEE,TLE	0.05		0.05	0.06	
42	ERIK E. & DEBORAH L. IHN	FEE,TLE	0.15		0.15	0.19	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
262	AT&T CORP.	ROR					

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/20/11 — ROBERT L. DUFFECK, REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/20/11 — WALTER C. ZENDEK

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

GN

SCALE, FEET
0 50 100

LOCATION MAP NOT TO SCALE

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.10
AMENDMENT NO:

3857586
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
September 23, 2011 09:46 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 101-101

FILE NAME : J:\projects\d2_r_13301883\040410_RP.dgn PLOT DATE : 23-SEP-2011 10:42 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.10

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.11

THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, AND PART OF LOT 3 OF CSM 10554 AND JERUSALEM CEMETERY IN THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 9, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTE: BASED ON RESIDENT HEARSAY, WELL AT SOUTH END OF PARCEL 48 FEEDS HOUSE AT PARCEL 47 AND SPIGOT AT PARCEL 43. LOCATION OF WATER LINE RUNNING UNDER EXISTING HIGHWAY IS APPROXIMATE.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

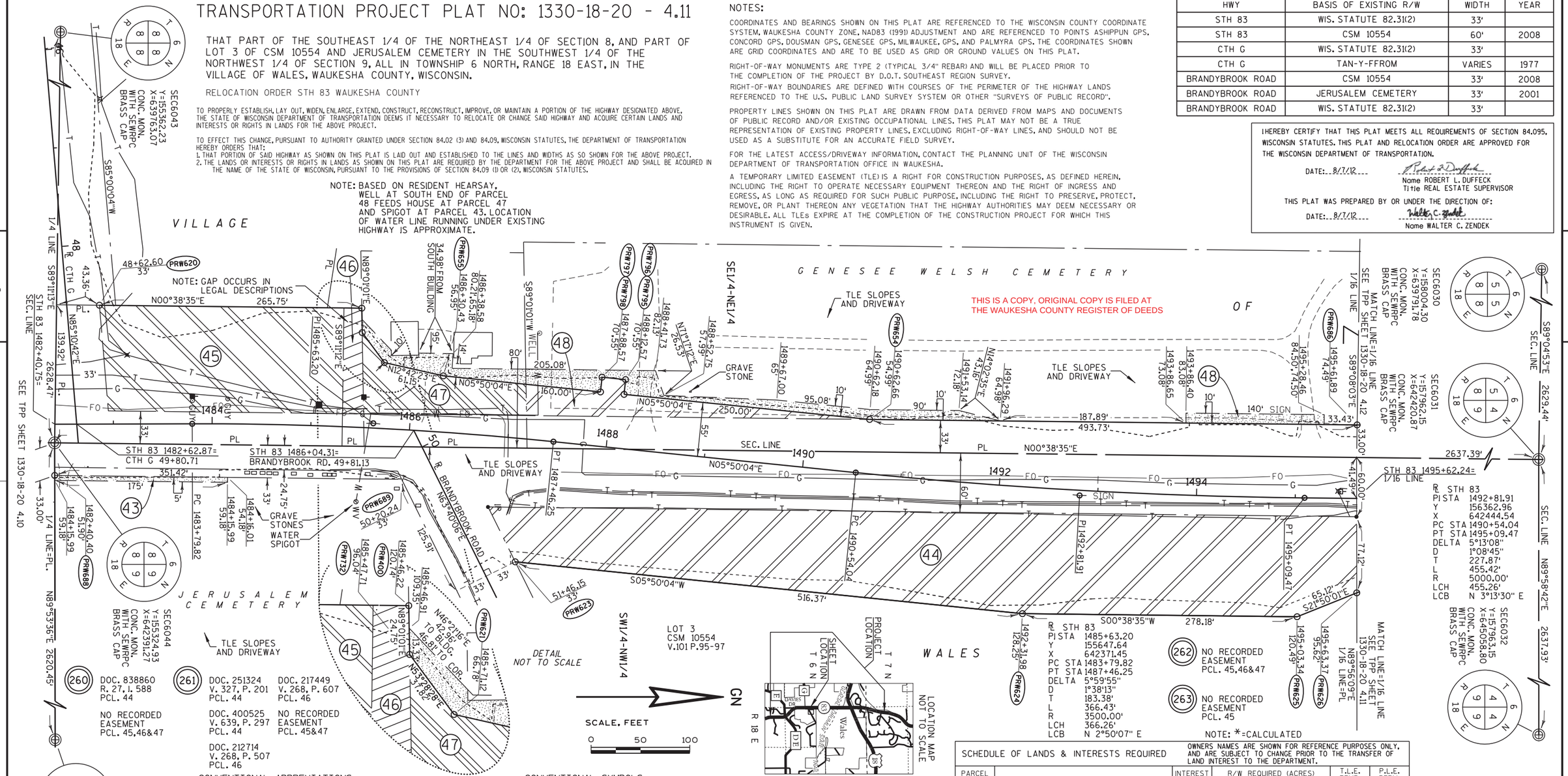
HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	WIS. STATUTE 82.31(2)	33'	
STH 83	CSM 10554	60'	2008
CTH G	WIS. STATUTE 82.31(2)	33'	
CTH G	TAN-Y-FFROM	VARIES	1977
BRANDYBROOK ROAD	CSM 10554	33'	2008
BRANDYBROOK ROAD	JERUSALEM CEMETERY	33'	2001
BRANDYBROOK ROAD	WIS. STATUTE 82.31(2)	33'	

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 8/7/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 8/7/12 — Name WALTER C. ZENDEK



PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
43	GENESEE WELSH CEMETERY ASSOCIATION	TLE				0.02	
44	DONALD E. ROBERTS	FEE	1.72		1.72		
45	THE TRUSTEES OF THE FIRST WELSH CALVINISTIC CHURCH	FEE	0.60*	0.34	0.94		
46	GWILAM ROBERTS	FEE	0.05	0.02	0.07		
47	INGRID SCHNEIDER	FEE,TLE	0.16	0.13	0.29	0.06	
48	GENESEE WELSH CEMETERY ASSOCIATION	FEE,TLE	0.13	0.64	0.77	0.16	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
262	AT&T CORP.	ROR					
263	WE ENERGIES GAS	ROR					

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PRW620 48+62.60 33'

PRW686 1495+61.89 74.49'

PRW688 1484+15.99 55.18'

PRW689 50+20.24

PRW732 1485+47.71 96.04'

PRW400 1485+46.22 120.74'

PRW621 1485+71.12 66.78'

PRW623 51+46.15 33'

PRW624 1492+31.98 128.25'

PRW625 1495+03.34 120.49'

PRW626 1495+63.37 95.62'

PC STH 83
PI STA 1492+81.91
Y 156362.96
X 642444.54
PC STA 1490+54.04
PT STA 1495+09.47
DELTA 5°13'08"
D 1°08'45"
T 227.87'
L 455.42'
R 5000.00'
LCH 455.26'
LCB N 3°13'30" E

PC STH 83
PI STA 1485+63.20
Y 155647.64
X 642371.45
PC STA 1483+79.82
PT STA 1487+46.25
DELTA 5°59'55"
D 1°38'13"
T 183.38'
L 366.43'
R 3500.00'
LCH 366.26'
LCB N 2°50'07" E

NOTE: *=CALCULATED

262 NO RECORDED EASEMENT PCL. 45,46&47

263 NO RECORDED EASEMENT PCL. 45

260 DOC. 838860 R. 27, I. 588 PCL. 44
NO RECORDED EASEMENT PCL. 45,46&47

261 DOC. 251324 V. 327, P. 201 PCL. 44
DOC. 400525 V. 639, P. 297 PCL. 44
DOC. 212714 V. 268, P. 507 PCL. 46
DOC. 217449 V. 268, P. 607 PCL. 46
NO RECORDED EASEMENT PCL. 45&47

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN
R/W MONUMENT
R/W STANDARD SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING

LP (1" UNLESS NOTED)
●(SET)
▲(SET)
ISIGN
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
RWB20
102
92
21-1

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
CORPORATE LIMITS
SLOPE INTERCEPTS
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.11
AMENDMENT NO:

3941123
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
August 13, 2012 01:27 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 142-142

484

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.12 AMENDMENT NO. 1

AMENDS TPP SHEET 1330-18-20-4.12 RECORDED IN BOOK 1, PAGE 108 AS DOCUMENT NUMBER 3876769 BY REVISING THE FEE AREA OF PARCELS 49 AND 50, ADDING A TLE TO PARCEL 49, AND REVISING PARCELS 260 AND 261.

THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, AND PART OF LOT 1 OF CAMBRIAN HILLS AND PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 9, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

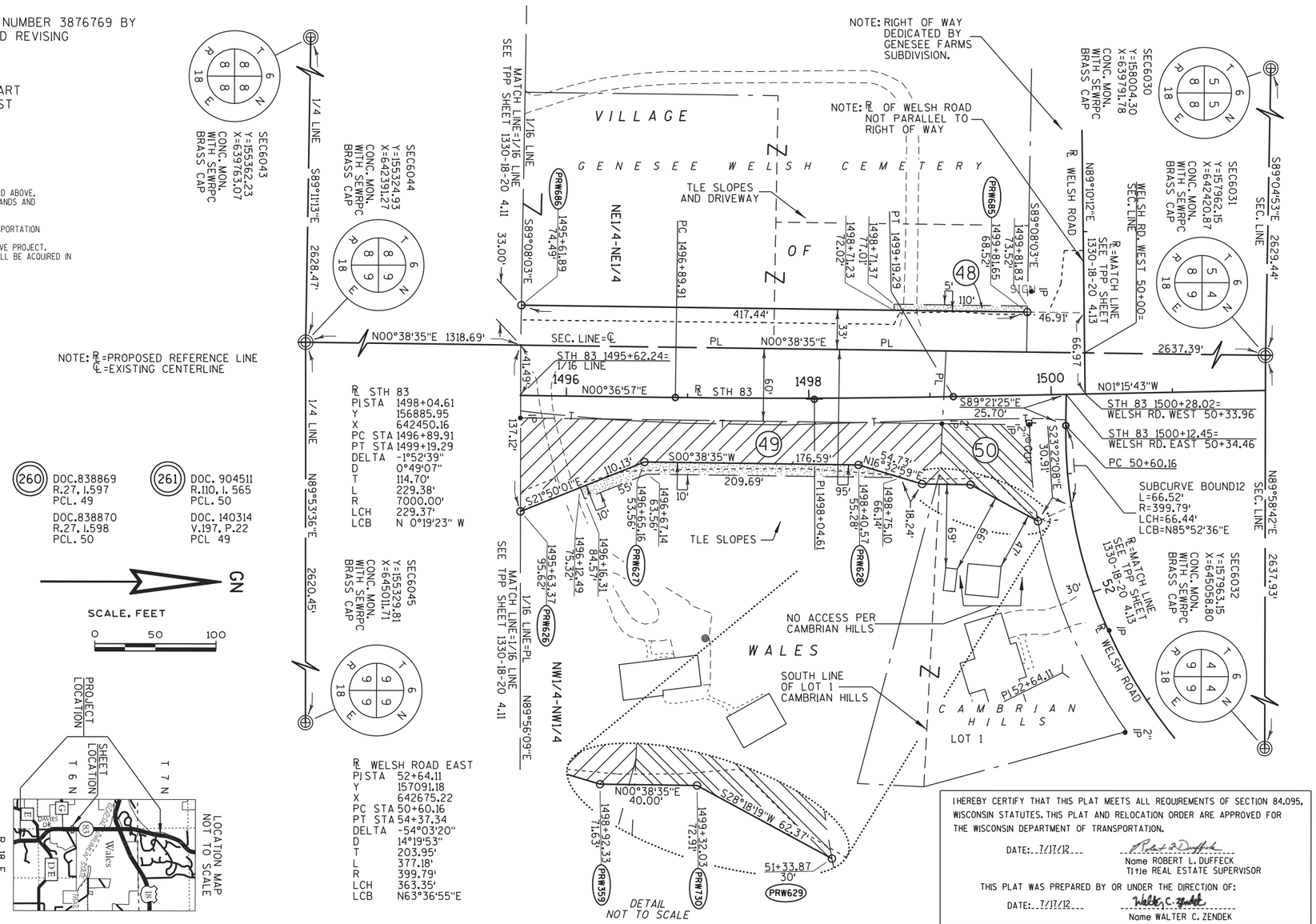
RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	WIS. STATUTE 82.31(2)	33'	
STH 83	CAMBRIAN HILLS	60'	1975
STH 83	DOC. 3301641	60'	2005
W. WELSH ROAD	GENESEE FARMS	60'	1965
E. WELSH ROAD	CAMBRIAN HILLS	30'	1975

NOTE: ℄=PROPOSED REFERENCE LINE
℄=EXISTING CENTERLINE



(260) DOC.838869 R.27, I.597 PCL. 49
DOC.838870 R.27, I.598 PCL. 50

(261) DOC. 904511 R.110, I. 565 PCL. 50
DOC. 140314 V.197, P.22 PCL 49

GN

SCALE, FEET
0 50 100

NOTES:
COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.
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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LP (1" UNLESS NOTED)
R/W MONUMENT	•(SET)
R/W STANDARD	▲(SET)
SIGN	ISIGN
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	
PARCEL NUMBER	RWB20
UTILITY PARCEL NUMBER	102
SIGN NUMBER (OFF PREMISE)	92
BUILDING	21-1
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
ACCESS RESTRICTED (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 7/17/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 7/17/12 — Name WALTER C. ZENDEK

THIS IS A COPY, ORIGINAL COPY IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
48	GENESEE WELSH CEMETERY ASSOCIATION	FEE,TLE	0.00	0.32	0.32	0.01	
49	RICHARD & MARION DAVIES LIVING TRUST	FEE,TLE	0.34	0.48	0.82	0.06	
50	JOHN L. & MARION K. VAN CASTER	FEE	0.10		0.10		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.12
AMENDMENT NO: 1

3935227
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
July 23, 2012 11:01 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 140-140

FILE NAME : j:\projects\d2_r_13301883\040412A1_RP.dgn PLOT DATE : 24-JUL-2012 09:08 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.12

THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, AND PART OF LOT 1 OF CAMBRIAN HILLS AND PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 9, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

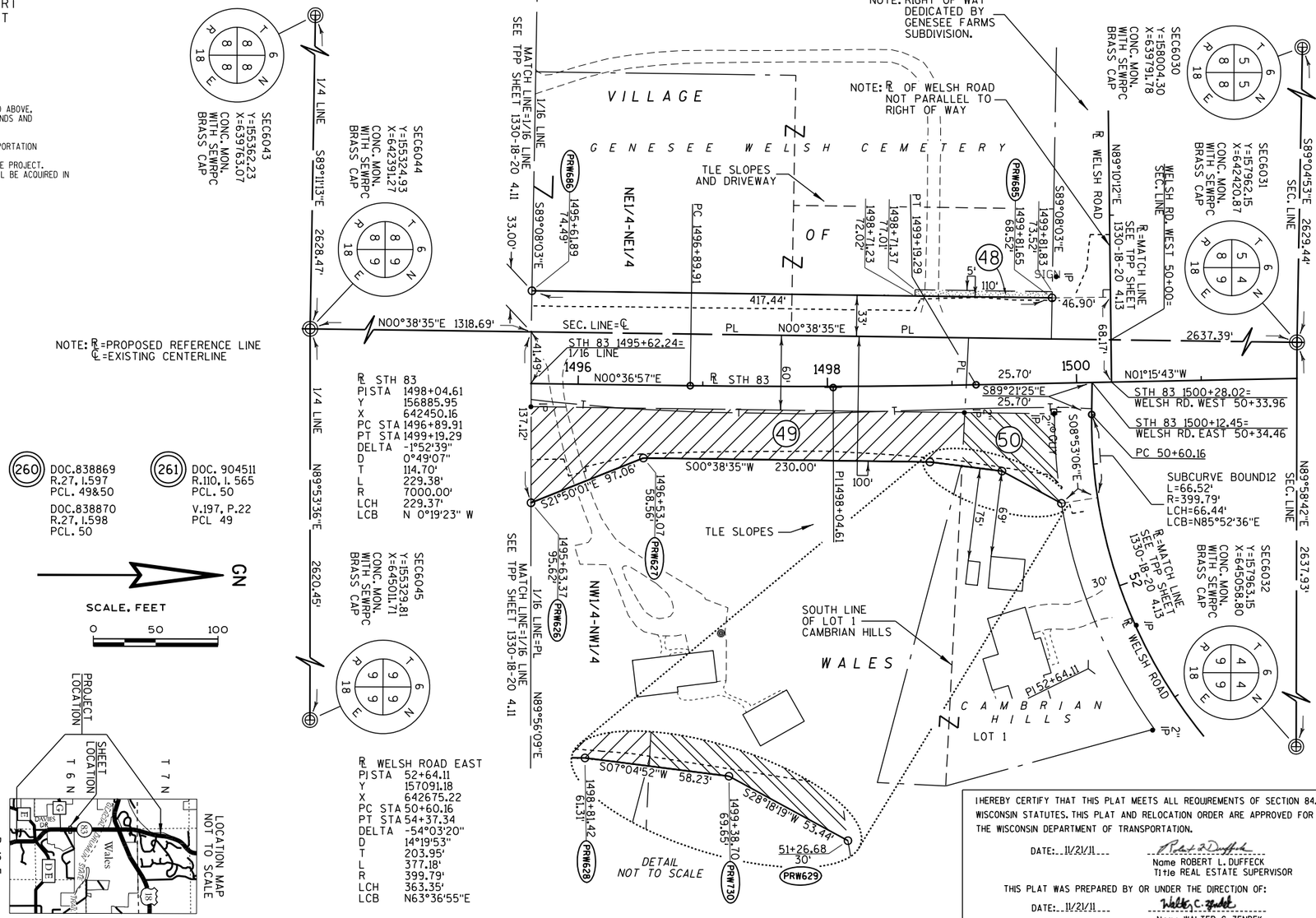
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	WIS. STATUTE 82.31(2)	33'	
STH 83	CAMBRIAN HILLS	60'	1975
STH 83	DOC. 3301641	60'	2005
W. WELSH ROAD	GENESEE FARMS	60'	1965
E. WELSH ROAD	CAMBRIAN HILLS	30'	1975

NOTE: ℄=PROPOSED REFERENCE LINE
℄=EXISTING CENTERLINE

(260) DOC.838869 R.27, I.597 PCL. 49&50
DOC.838870 R.27, I.598 PCL. 50

(261) DOC. 904511 R.110, I. 565 PCL. 50
V.197, P.22 PCL 49



CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

- FOUND IRON PIPE/PIN (I" UNLESS NOTED)
- R/W MONUMENT •(SET)
- R/W STANDARD ▲(SET)
- SIGN ISIGN
- SECTION CORNER MONUMENT
- SECTION CORNER SYMBOL (CONC. MON. WITH BRASS CAP)
- FEE (HATCH VARIES)
- TEMPORARY LIMITED EASEMENT
- PERMANENT LIMITED EASEMENT
- R/W BOUNDARY POINT RWB20
- PARCEL NUMBER 102
- UTILITY PARCEL NUMBER 92
- SIGN NUMBER (OFF PREMISE) 21
- BUILDING
- PROPOSED R/W LINE
- EXISTING H.E. LINE
- PROPERTY LINE
- LOT & TIE LINES
- SLOPE INTERCEPTS
- CORPORATE LIMITS
- NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
- NO ACCESS (BY ACQUISITION)
- NO ACCESS (BY STATUTORY AUTHORITY)
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- EXISTING CENTERLINE
- PROPOSED REFERENCE LINE
- PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON-COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/21/11 — Robert L. Duffeck
Name ROBERT L. DUFFECK
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/21/11 — Walter C. Zendek
Name WALTER C. ZENDEK

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
48	GENESEE WELSH CEMETERY ASSOCIATION	FEE,TLE	0.00	0.32	0.32	0.01	
49	RICHARD & MARION DAVIES LIVING TRUST	FEE	0.36	0.48	0.84		
50	JOHN L. & MARION K. VAN CASTER	FEE	0.09		0.09		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.12
AMENDMENT NO:

3876769
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
December 05, 2011 10:56 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 108-108

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.13 AMENDMENT 1

AMENDS TPP SHEET 1330-18-20-4.13 RECORDED IN BOOK 1, PAGE 109 AS DOCUMENT NUMBER 3876770 BY REVISING PARCEL 260 AND REMOVING PARCEL 262.

THAT PART OF LOTS 21, 22, 23, 24, 25, AND 26 OF CAMBRIAN HILLS LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 9, AND PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

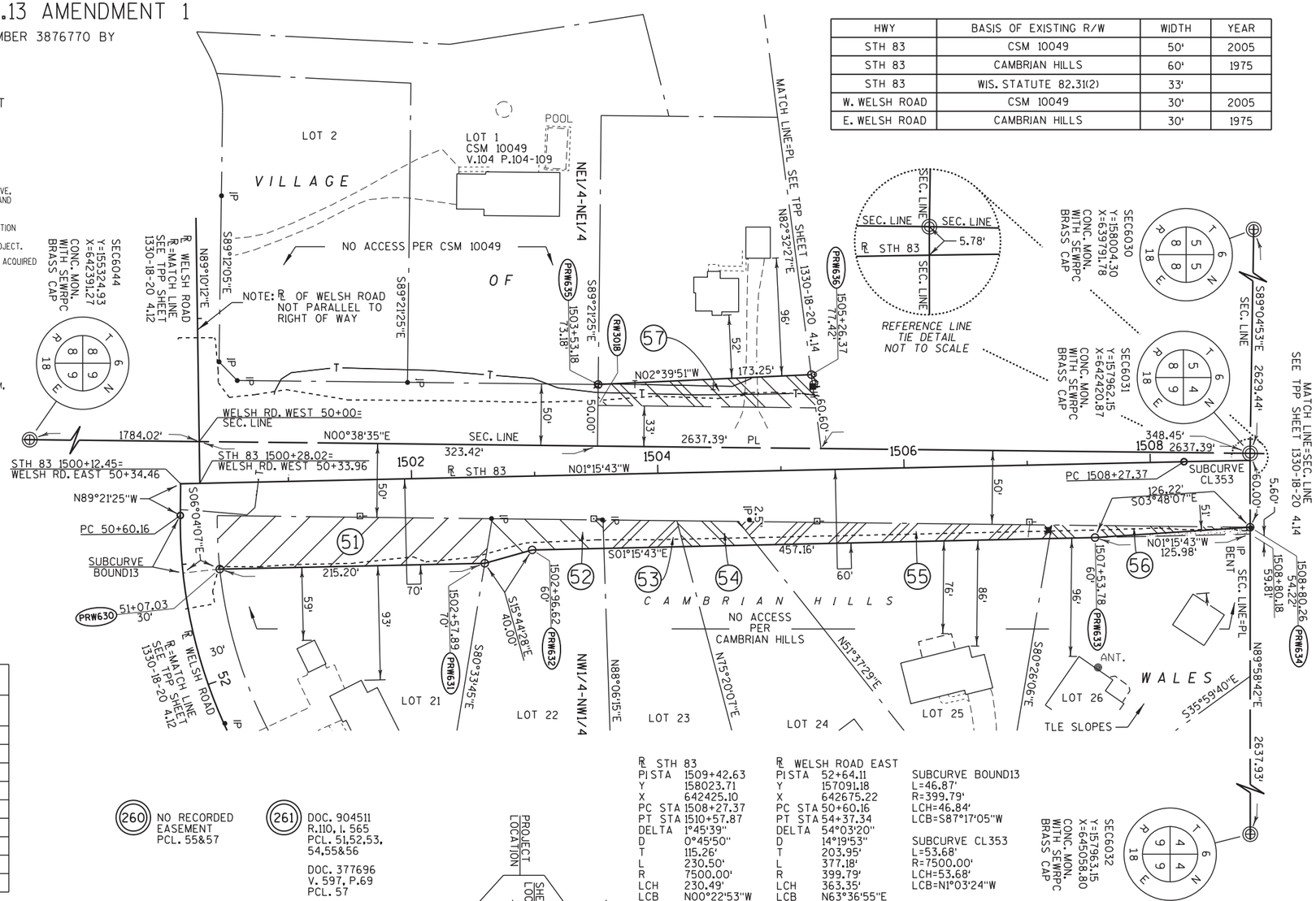
RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	CSM 10049	50'	2005
STH 83	CAMBRIAN HILLS	60'	1975
STH 83	WIS. STATUTE 82.31(2)	33'	
W. WELSH ROAD	CSM 10049	30'	2005
E. WELSH ROAD	CAMBRIAN HILLS	30'	1975



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
51	STEVEN L. & KATHRYN S. HINTZ	FEE	0.20		0.20		
52	JEREMY J. & ERICA R. BARDON	FEE	0.05		0.05		
53	ROBERT L. & PATRICIA J. EMMONS	FEE	0.03		0.03		
54	ERIC W. & TRISHA A. LARSON	FEE	0.03		0.03		
55	AMY L. SCHACHT	FEE	0.09		0.09		
56	JAMES W. & DEBRA M. MALLATT	FEE,TLE	0.02		0.02	0.01	
57	DUANE E. & ANNETTE M. ATWATER	FEE	0.09	0.14	0.23		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

(260) NO RECORDED EASEMENT PCL. 55&57

(261) DOC. 904511 R.110, I. 565 PCL. 51,52,53, 54,55&56

DOC. 377696 V. 597, P.69 PCL. 57

R STH 83
PISTA 1509+42.63
Y 158023.71
X 642425.10
PC STA 1508+27.37
PT STA 1510+57.87
DELTA 1°45'39"
D 0°45'50"
T 115.26'
L 230.50'
R 7500.00'
LCH 230.49'
LCB N00°22'53"W

R WELSH ROAD EAST
PISTA 52+64.11
Y 157091.18
X 642675.22
PC STA 50+60.16
PT STA 54+37.34
DELTA 54°03'20"
D 14°19'53"
T 203.95'
L 377.18'
R 399.79'
LCH 363.35'
LCB N63°36'55"E

SUBCURVE BOUND13
L=46.87'
R=399.79'
LCH=46.84'
LCB=S87°17'05"W

SUBCURVE CL353
L=53.68'
R=7500.00'
LCH=53.68'
LCB=N1°03'24"W

SEC6032 Y=157963.15 X=645058.80 CONC. MON. WITH SEWRPC BRASS CAP

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

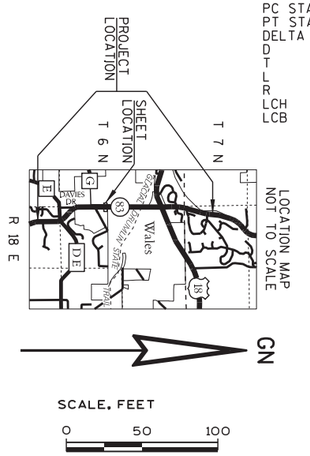
LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)	IP
R/W MONUMENT	•(SET)
R/W STANDARD	▲(SET)
SIGN	ISIGN
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	RWB20
PARCEL NUMBER	102
UTILITY PARCEL NUMBER	(92)
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
ACCESS RESTRICTED (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE	⌀	⌀
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL		
ELECTRIC TOWER	⊠	



THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/24/12 — Robert L. Duffeck
Name ROBERT L. DUFFECK
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/24/12 — Walter C. Zendek
Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.13
AMENDMENT NO: 1

3954292
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
October 01, 2012 11:40 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 150-150

FILE NAME : j:\projects\d2_r_13301883\040413A1_RP.dgn PLOT DATE : 01-OCT-2012 14:24 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.13

THAT PART OF LOTS 21, 22, 23, 24, 25, AND 26 OF CAMBRIAN HILLS LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 9, AND PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 8, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

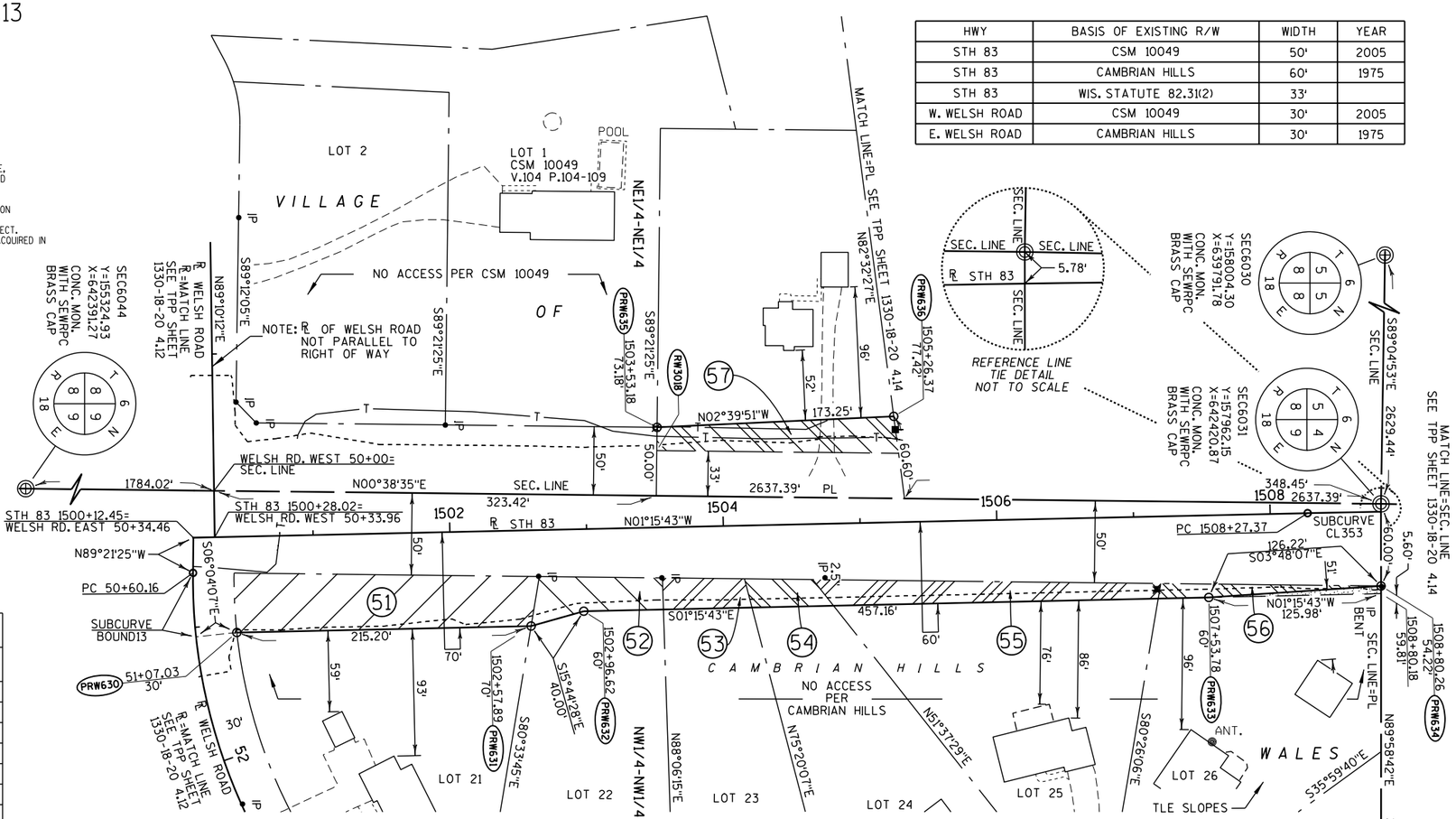
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
51	STEVEN L. & KATHRYN S. HINTZ	FEE	0.20		0.20		
52	JEREMY J. & ERICA R. BARDON	FEE	0.05		0.05		
53	ROBERT L. & PATRICIA J. EMMONS	FEE	0.03		0.03		
54	ERIC W. & TRISHA A. LARSON	FEE	0.03		0.03		
55	AMY L. SCHACHT	FEE	0.09		0.09		
56	JAMES W. & DEBRA M. MALLATT	FEE,TLE	0.02		0.02	0.01	
57	DUANE E. & ANNETTE M. ATWATER	FEE	0.09	0.14	0.23		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
262	AT&T CORP.	ROR					

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	CSM 10049	50'	2005
STH 83	CAMBRIAN HILLS	60'	1975
STH 83	WIS. STATUTE 82.31(2)	33'	
W. WELSH ROAD	CSM 10049	30'	2005
E. WELSH ROAD	CAMBRIAN HILLS	30'	1975



R STH 83		R WELSH ROAD EAST		SUBCURVE BOUND13	
PISTA	1509+42.63	PISTA	52+64.11	L	=46.87'
Y	158023.71	Y	157091.18	R	=399.79'
X	642425.10	X	642675.22	LCH	=46.84'
PC STA	1508+27.37	PC STA	50+60.16	LCB	=S87°17'05"W
PT STA	1510+57.87	PT STA	54+37.34		
DELTA	1°45'39"	DELTA	54°03'20"	SUBCURVE CL353	
D	0°45'50"	D	14°19'53"	L	=53.68'
T	115.26'	T	203.95'	R	=7500.00'
L	230.50'	L	377.18'	LCH	=53.68'
R	7500.00'	R	399.79'	LCB	=N1°03'24"W
LCH	230.49'	LCH	363.35'		
LCB	N00°22'53"W	LCB	N63°36'55"E		

260 NO RECORDED EASEMENT PCL. 57

261 DOC. 904511 R.110, I. 565 PCL. 51,52,53, 54,55&56
DOC. 377696 V. 597, P.69 PCL. 57

262 NO RECORDED EASEMENT PCL. 57

CONVENTIONAL ABBREVIATIONS

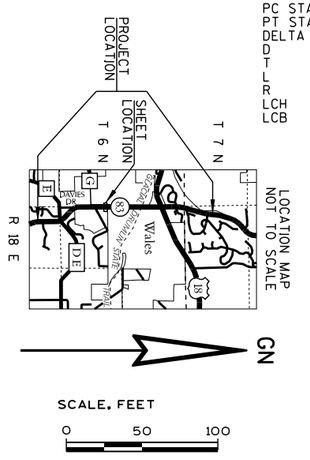
ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	℄		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)	LP
R/W MONUMENT	•(SET)
R/W STANDARD	▲(SET)
SIGN	ISIGN
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	RWB20
PARCEL NUMBER	102
UTILITY PARCEL NUMBER	(92)
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		



THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/30/11 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/30/11 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.13
AMENDMENT NO:

3876770
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
December 08, 2011 10:58 AM
Jenes R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 109-109

FILE NAME : j:\projects\d2_r_13301883\040413_RP.dgn PLOT DATE : 06-DEC-2011 08:55 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.13

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.14 AMENDMENT 1

AMENDS TPP SHEET 1330-18-20-4.14 RECORDED IN BOOK 1, PAGE 110 AS DOCUMENT NUMBER 3876771 BY REVISING PARCELS 260, 263 AND 264 AND REMOVING PARCEL 262.

THAT PART OF LOT 138 OF GENESEE FARMS ADDITION NO. 3 AND WELSH HIGHLANDS CONDOMINIUM LOCATED IN AND INCLUDING THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5, AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 4, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	CSM 10542	60'	2008
STH 83	GENESEE FARMS ADDITION NO. 3	50'	1968
STH 83	WIS. STATUTE 82.31(2)	33'	
SOUTH STREET	DOC. 642237, V. 1023, P. 90	50'	1965
CRIGLAS ROAD	DOC. 658674, V. 1045, P. 233	VARIES	1966
CRIGLAS ROAD	GENESEE FARMS ADDITION NO. 3	60'	1968

(263) DOC. 1530657 R. 1100, I. 56 PCL. 58
DOC. 3613604 PCL. 64
NO RECORDED EASEMENT PCL. 65

(264) NO RECORDED EASEMENT PCL. 66
DOC. 3613605 PCL. 64

SCALE, FEET 0 50 100

SEC6030 Y=158004.30 X=639791.78 CONC. MON. WITH SEWRPC BRASS CAP

SEC6031 Y=157962.15 X=642420.87 CONC. MON. WITH SEWRPC BRASS CAP

SEC6032 Y=157963.15 X=645058.80 CONC. MON. WITH SEWRPC BRASS CAP

SEC6044 Y=155324.93 X=642391.27 CONC. MON. WITH SEWRPC BRASS CAP

SEC6017 Y=160667.56 X=639832.89 CONC. MON. WITH SEWRPC BRASS CAP

SEC6018 Y=160609.85 X=642470.39 CONC. MON. WITH D.O.T. ALUMINUM CAP

SEC6019 Y=160602.38 X=645095.65 CONC. MON. WITH SEWRPC BRASS CAP

PROJECT LOCATION

SHEET LOCATION

LOCATION MAP NOT TO SCALE

MATCH LINE=PL SHEET 1330-18-20 4.13

SEE TPP SHEET 1330-18-20 4.15

WELSH HIGHLANDS CONDOMINIUM

VILLAGE OF WALES

GENESEE FARMS ADDITION NO. 3

LOT 138

SOUTH STREET

CRIGLAS ROAD

POOL

DETAIL NOT TO SCALE

TLE SLOPES AND DRIVEWAYS

TLE SLOPES

NO ACCESS PER GENESEE FARMS ADDITION NO. 3

60' TO SEC. LINE

50' TO SEC. LINE

33' TO SEC. LINE

SEC. LINE=PL

PC 1508+27.37

PT 1510+57.87

STH 83 1510+75.78= SOUTH ST. 50+01.75

STH 83 1515+88.03= CRIGLAS RD. 52+25.97

CRIGLAS RD. 52+29.34= SEC. LINE

706.96' FROM SEC. COR. SEC. LINE=PL

1/4 LINE S89°44'47"E 2638.14'

1/4 LINE S89°50'13"E 2625.27'

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
58	STEVEN W. NIEDERDORFER	FEE,TLE	0.11	0.13	0.24	0.16	
59	JAMES M. MORRIS REVOCABLE TRUST	FEE,TLE	0.04	0.07	0.11	0.03	
60	JEFFREY M. & SANDRA J. PENNINGTON	FEE,TLE	0.04	0.07	0.11	0.04	
61	JOHN L. & MELISSA M. ZAHARIS	FEE,TLE	0.04	0.07	0.11	0.03	
62	RICHARD & ROSALIE KUNSTMANN	FEE,TLE	0.04	0.08	0.12	0.07	
63	MICHAEL R. & JUANITA PARDI	FEE,TLE	0.03	0.06	0.09	0.03	
64	KJN DEVELOPMENT II L.L.C.	TLE				0.15	
65	HOWARD & ROSEMARY L. KNAPP	FEE,TLE	0.06	0.08	0.14	0.08	
66	GARY L. & PATRICIA A. BEAULIEU	FEE,TLE	0.05		0.05	0.08	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
263	WE ENERGIES GAS	ROR					
264	TIME WARNER CABLE	ROR					

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

FOUND IRON PIPE/PIN	LP (1" UNLESS NOTED)
R/W MONUMENT	•(SET)
R/W STANDARD	▲(SET)
SIGN	SIGN
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	RWB20
PARCEL NUMBER	103
UTILITY PARCEL NUMBER	92
SIGN NUMBER (OFF PREMISE)	21
BUILDING	

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

NON COMPENSABLE	COMPENSABLE
POWER POLE	
TELEPHONE POLE	
TELEPHONE PEDESTAL	
ELECTRIC TOWER	

(260) DOC. 838867 R. 27, I. 595 PCL. 58
DOC. 838868 R. 27, I. 596 PCL. 59
NO RECORDED EASEMENT PCL. 60,61,62,63 &66
DOC. 3613605 PCL. 64
DOC. 838883 R. 27, I. 611 PCL. 65

(261) NO RECORDED EASEMENT PCL. 58
DOC. 331630, V. 505, P. 231 PCL. 59
DOC. 1905023, R. 1829, I. 119 PCL. 61
DOC. 3613605 PCL. 64
DOC. 212736, V. 268, P. 510 PCL. 64,65&66
DOC. 733473, V. 1151, P. 545 PCL. 66

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/24/12 — Name ROBERT L. DUFFECK Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/24/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.14
AMENDMENT NO: 1

3954293
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
October 01, 2012 11:40 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 151-151

FILE NAME : j:\projects\d2_r_13301883\040414A1_RP.dgn PLOT DATE : 01-OCT-2012 14:26 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.14 AMENDMENT 1

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.14

THAT PART OF LOT 138 OF GENESEE FARMS ADDITION NO. 3 AND WELSH HIGHLANDS CONDOMINIUM LOCATED IN AND INCLUDING THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5, AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 4, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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".

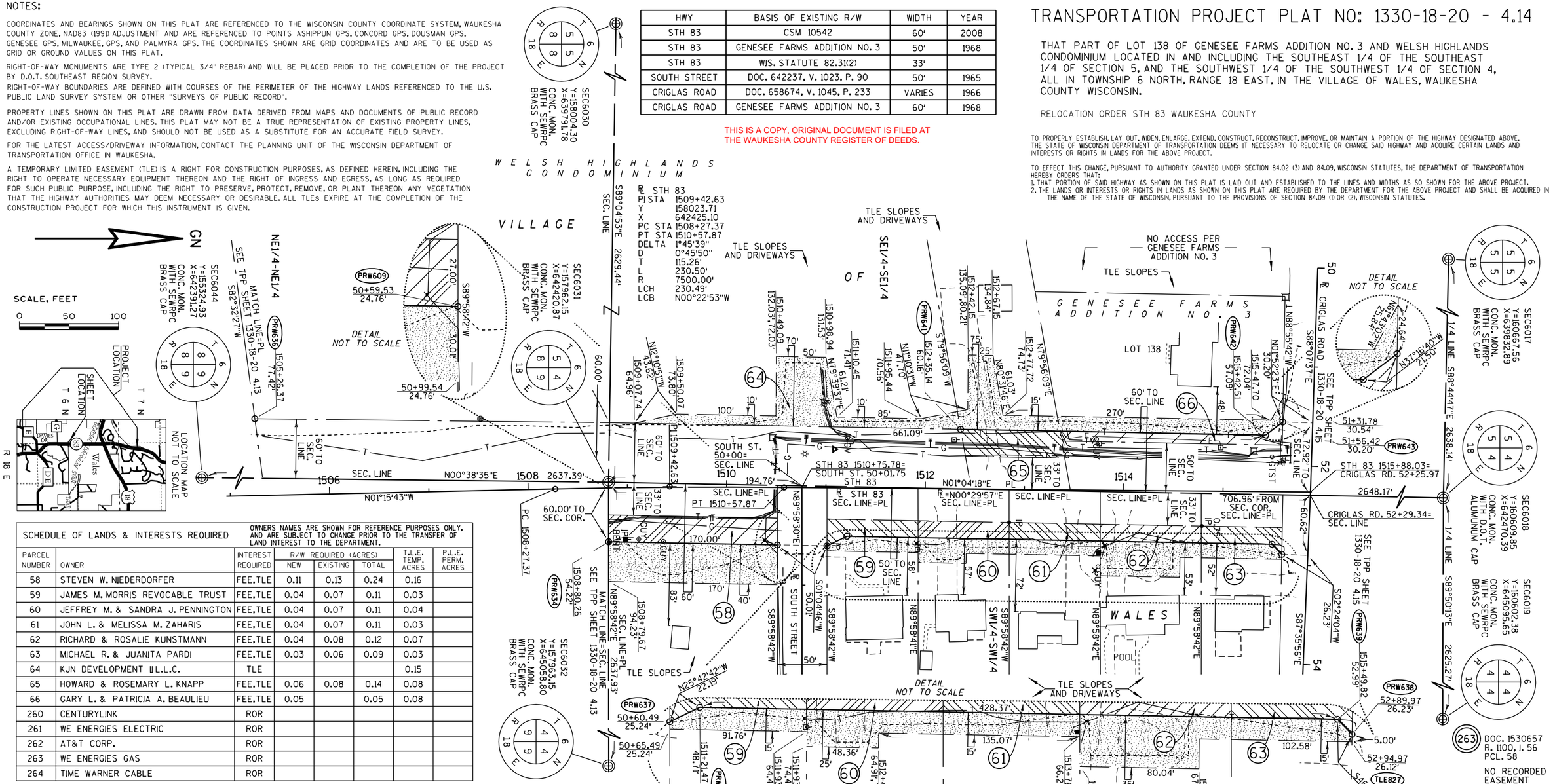
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	CSM 10542	60'	2008
STH 83	GENESEE FARMS ADDITION NO. 3	50'	1968
STH 83	WIS. STATUTE 82.31(2)	33'	
SOUTH STREET	DOC. 642237, V. 1023, P. 90	50'	1965
CRIGLAS ROAD	DOC. 658674, V. 1045, P. 233	VARIES	1966
CRIGLAS ROAD	GENESEE FARMS ADDITION NO. 3	60'	1968

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.



SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
58	STEVEN W. NIEDERDORFER	FEE,TLE	0.11	0.13	0.24	0.16	
59	JAMES M. MORRIS REVOCABLE TRUST	FEE,TLE	0.04	0.07	0.11	0.03	
60	JEFFREY M. & SANDRA J. PENNINGTON	FEE,TLE	0.04	0.07	0.11	0.04	
61	JOHN L. & MELISSA M. ZAHARIS	FEE,TLE	0.04	0.07	0.11	0.03	
62	RICHARD & ROSALIE KUNSTMANN	FEE,TLE	0.04	0.08	0.12	0.07	
63	MICHAEL R. & JUANITA PARDI	FEE,TLE	0.03	0.06	0.09	0.03	
64	KJN DEVELOPMENT II L.L.C.	TLE				0.15	
65	HOWARD & ROSEMARY L. KNAPP	FEE,TLE	0.06	0.08	0.14	0.08	
66	GARY L. & PATRICIA A. BEAULIEU	FEE,TLE	0.05		0.05	0.08	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
262	AT&T CORP.	ROR					
263	WE ENERGIES GAS	ROR					
264	TIME WARNER CABLE	ROR					

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

FOUND IRON PIPE/PIN	LP (1" UNLESS NOTED)
R/W MONUMENT	•(SET)
R/W STANDARD	▲(SET)
SIGN	SIGN
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	RWB20
PARCEL NUMBER	103
UTILITY PARCEL NUMBER	92
SIGN NUMBER (OFF PREMISE)	21
BUILDING	

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

(260) DOC. 838867 R. 27, I. 595 PCL. 58
DOC. 838868 R. 27, I. 596 PCL. 59
NO RECORDED EASEMENT PCL. 60,61,62& 63
DOC. 3613605 PCL. 64
DOC. 838883 R. 27, I. 611 PCL. 65

(261) NO RECORDED EASEMENT PCL. 58
DOC. 331630 PCL. 59
DOC. 1905023, R. 1829, I. 119 PCL. 61
DOC. 3613605 PCL. 64
DOC. 212736, V. 268, P. 510 PCL. 64,65&66
DOC. 733473, V. 1151, P. 545 PCL. 66

(262) DOC. 733473 V. 1151, P. 545 PCL. 66

(263) DOC. 1530657 R. 1100, I. 56 PCL. 58
NO RECORDED EASEMENT PCL. 64&65

(264) NO RECORDED EASEMENT PCL. 66

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/21/11 — Name ROBERT L. DUFFECK Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/21/11 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.14
AMENDMENT NO:

3876771
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
December 05, 2011 10:58 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 110-110

FILE NAME : j:\projects\d2_r_13301883\040414_RP.dgn PLOT DATE : 06-DEC-2011 09:14 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.14

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.15 AMENDMENT 2

AMENDS TPP SHEET 1330-18-20-4.15 AMENDMENT 1 RECORDED IN BOOK 1, PAGE 152 AS DOCUMENT NUMBER 3954294 BY REVISING PARCELS 70 AND 260.

THAT PART OF LOT 137 OF GENESEE FARMS ADDITION NO. 3 IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5, LOT 12 OF VILLAGE GLEN IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5, AND PART OF PARCEL 2 OF CSM 3073 LOCATED IN AND INCLUDING PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 4 ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

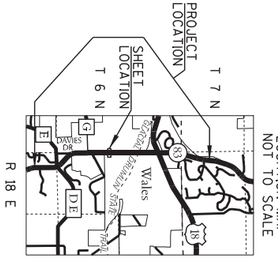
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	CSM 3073	60'	1977
STH 83	GENESEE FARMS ADDITION NO. 3	50'	1968
STH 83	VILLAGE GLEN	60'	1977
STH 83	WIS. STATUTE 82.31(2)	33'	
MAIN STREET	WIS. STATUTE 82.31(2)	33'	
MAIN STREET	CSM 3073	33'	1977
CRIGLAS ROAD	GENESEE FARMS ADDITION NO. 3	60'	1968
CRIGLAS ROAD	DOC. 658674, V. 1045, P. 233	VARIES*	1966

*=SEE DEED

GN

SCALE, FEET
0 50 100



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

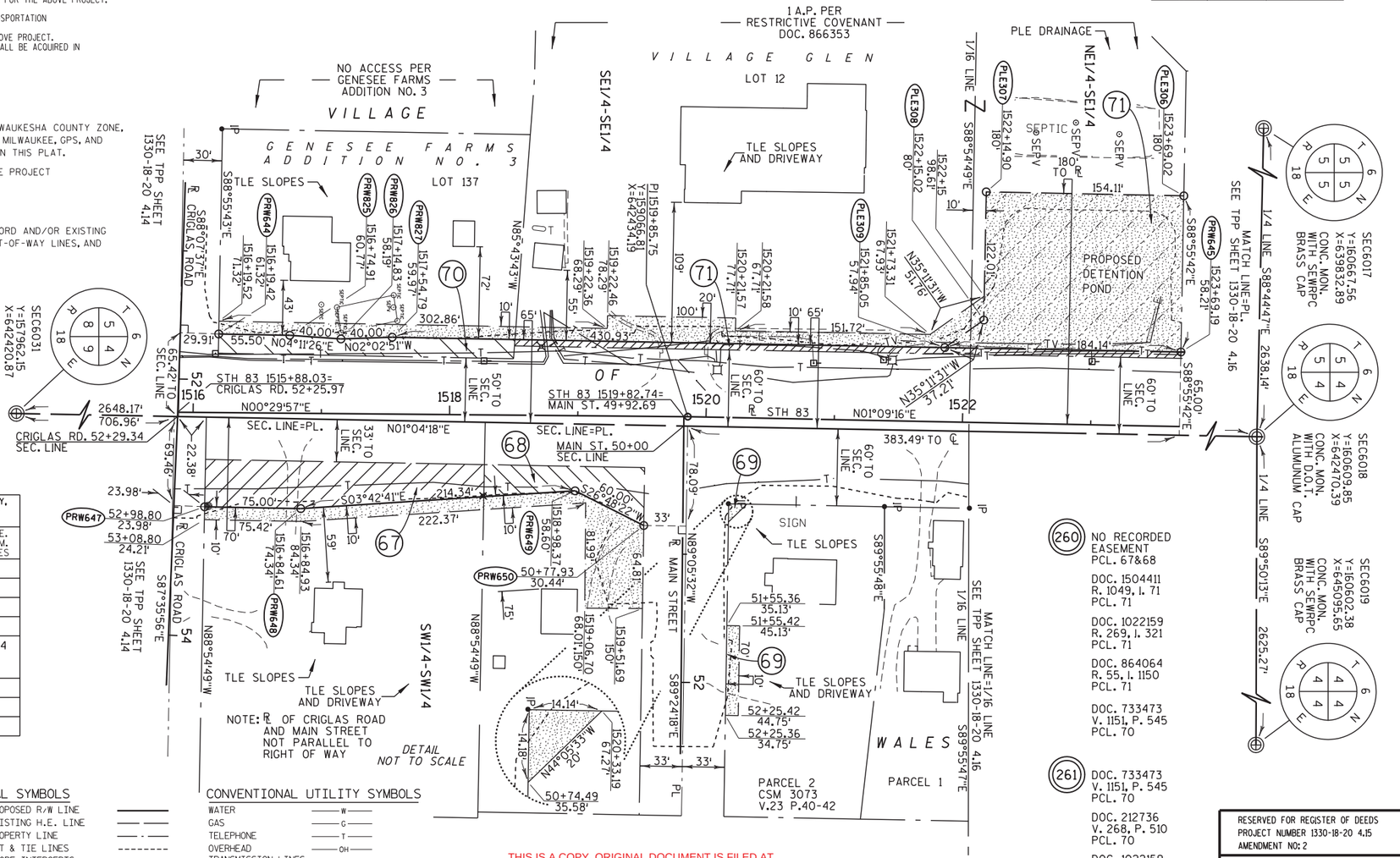
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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.

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
67	LORI A. MARKS	FEE,TLE	0.17	0.16	0.33	0.05	
68	COTTAGE ON MAIN L.L.C.	FEE,TLE	0.08	0.15	0.23	0.10	
69	HARRIS DEVELOPMENT GROUP L.L.C.	TLE				0.02	
70	EUGENE H. & TAMMIE J. GRONEWOLD	FEE,TLE	0.08		0.08	0.06	
71	CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS	FEE,PLE, TLE	0.06		0.06	0.11	0.44
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
264	TIME WARNER CABLE	ROR					



CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	℄	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	℞		

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	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (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	PROPOSED REFERENCE LINE	
BUILDING	21-1	PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE	⌀	⌀
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌧	⌧
ELECTRIC TOWER	⌧	

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 1/3/13 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 1/3/13 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.15
AMENDMENT NO: 2

3982281
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
January 11, 2013 11:52 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 154-154

FILE NAME : J:\projects\d2_r_13301883\040415A2_RP.dgn PLOT DATE : 11-JAN-2013 13:24 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.15 AMENDMENT 2

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.15 AMENDMENT 1

AMENDS TPP SHEET 1330-18-20-4.15 RECORDED IN BOOK 1, PAGE 111 AS DOCUMENT NUMBER 3876772 BY REVISING PARCEL 260 AND REMOVING PARCELS 262 AND 263.

THAT PART OF LOT 137 OF GENESEE FARMS ADDITION NO. 3 IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5, LOT 12 OF VILLAGE GLEN IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5, AND PART OF PARCEL 2 OF CSM 3073 LOCATED IN AND INCLUDING PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 4 ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	CSM 3073	60'	1977
STH 83	GENESEE FARMS ADDITION NO. 3	50'	1968
STH 83	VILLAGE GLEN	60'	1977
STH 83	WIS. STATUTE 82.31(2)	33'	
MAIN STREET	WIS. STATUTE 82.31(2)	33'	
MAIN STREET	CSM 3073	33'	1977
CRIGLAS ROAD	GENESEE FARMS ADDITION NO. 3	60'	1968
CRIGLAS ROAD	DOC. 658674, V. 1045, P. 233	VARIES	1966

SCALE, FEET
0 50 100
GN

PROJECT LOCATION
SHEET LOCATION
T 6 N
T 7 N
R 18 E
Wales
LOCATION MAP
NOT TO SCALE

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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".

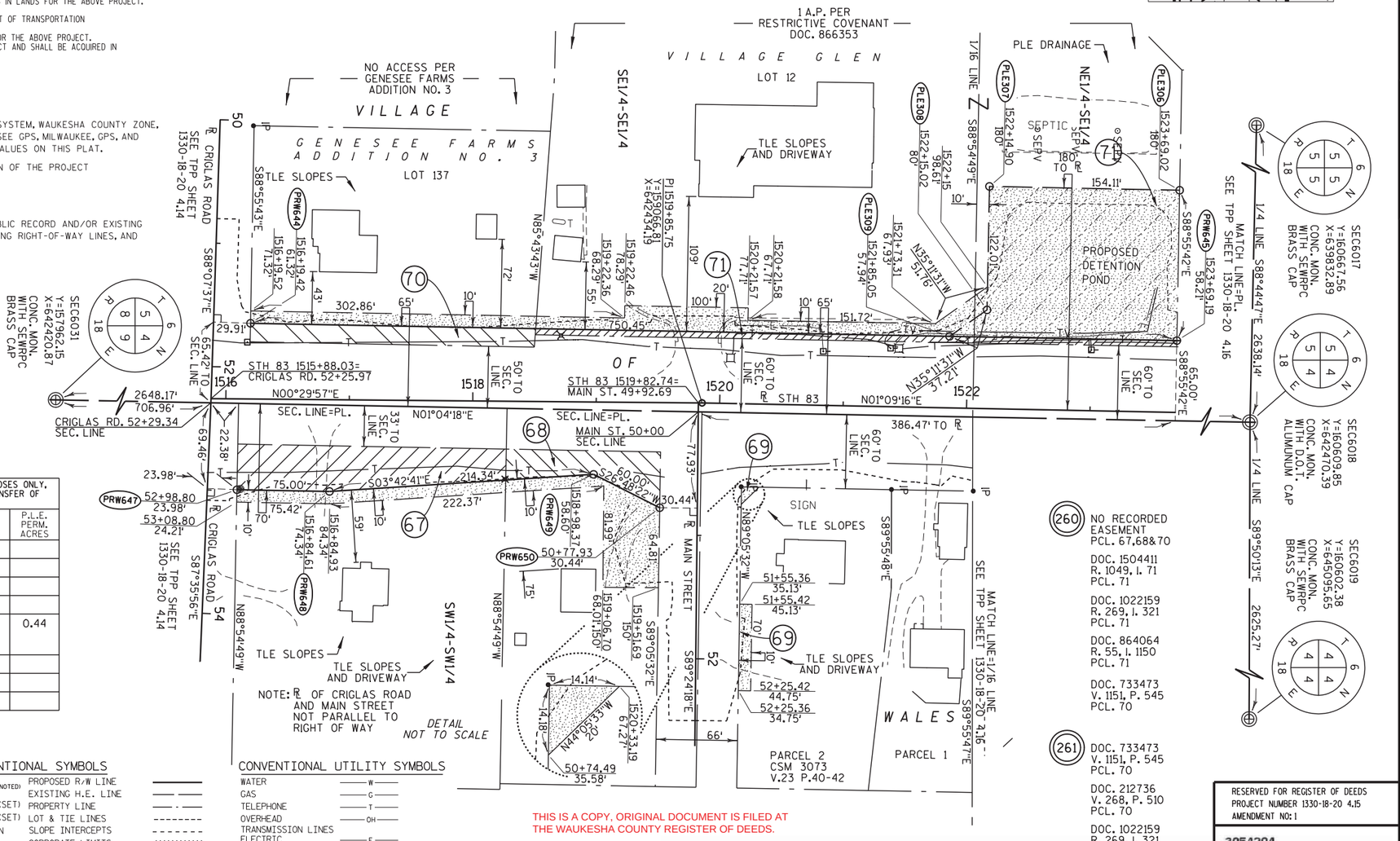
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
67	LORI A. MARKS	FEE,TLE	0.17	0.16	0.33	0.05	
68	COTTAGE ON MAIN L.L.C.	FEE,TLE	0.08	0.15	0.23	0.10	
69	HARRIS DEVELOPMENT GROUP L.L.C.	TLE				0.02	
70	EUGENE H. & TAMMIE J. GRONEWOLD	FEE,TLE	0.08		0.08	0.05	
71	CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS	FEE,PLE, TLE	0.06		0.06	0.11	0.44
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
264	TIME WARNER CABLE	ROR					



CONVENTIONAL ABBREVIATIONS

ACCESS POINT, DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	℄	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℞		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN 1/2" (1" UNLESS NOTED)
R/W MONUMENT •(SET)
R/W STANDARD ▲(SET)
SIGN !SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER RWB20
UTILITY PARCEL NUMBER 102
SIGN NUMBER (OFF PREMISE) 92
BUILDING 21-1

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE	⊕	⊕
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌧	⌧
ELECTRIC TOWER	⊠	

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 9/24/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 9/24/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.15
AMENDMENT NO: 1

3954294
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
October 01, 2012 11:40 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 152-152

FILE NAME : j:\projects\d2_r_13301883\040415A1_RP.dgn PLOT DATE : 01-OCT-2012 14:28 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.15 AMENDMENT 1

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.15

THAT PART OF LOT 137 OF GENESEE FARMS ADDITION NO. 3 IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5, LOT 12 OF VILLAGE GLEN IN THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5, AND PART OF PARCEL 2 OF CSM 3073 LOCATED IN AND INCLUDING PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 4 ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

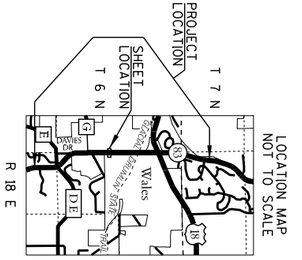
TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	CSM 3073	60'	1977
STH 83	GENESEE FARMS ADDITION NO. 3	50'	1968
STH 83	VILLAGE GLEN	60'	1977
STH 83	WIS. STATUTE 82.31(2)	33'	
MAIN STREET	WIS. STATUTE 82.31(2)	33'	
MAIN STREET	CSM 3073	33'	1977
CRIGLAS ROAD	GENESEE FARMS ADDITION NO. 3	60'	1968
CRIGLAS ROAD	DOC. 658674, V. 1045, P. 233	VARIES	1966

GN

SCALE, FEET

0 50 100



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

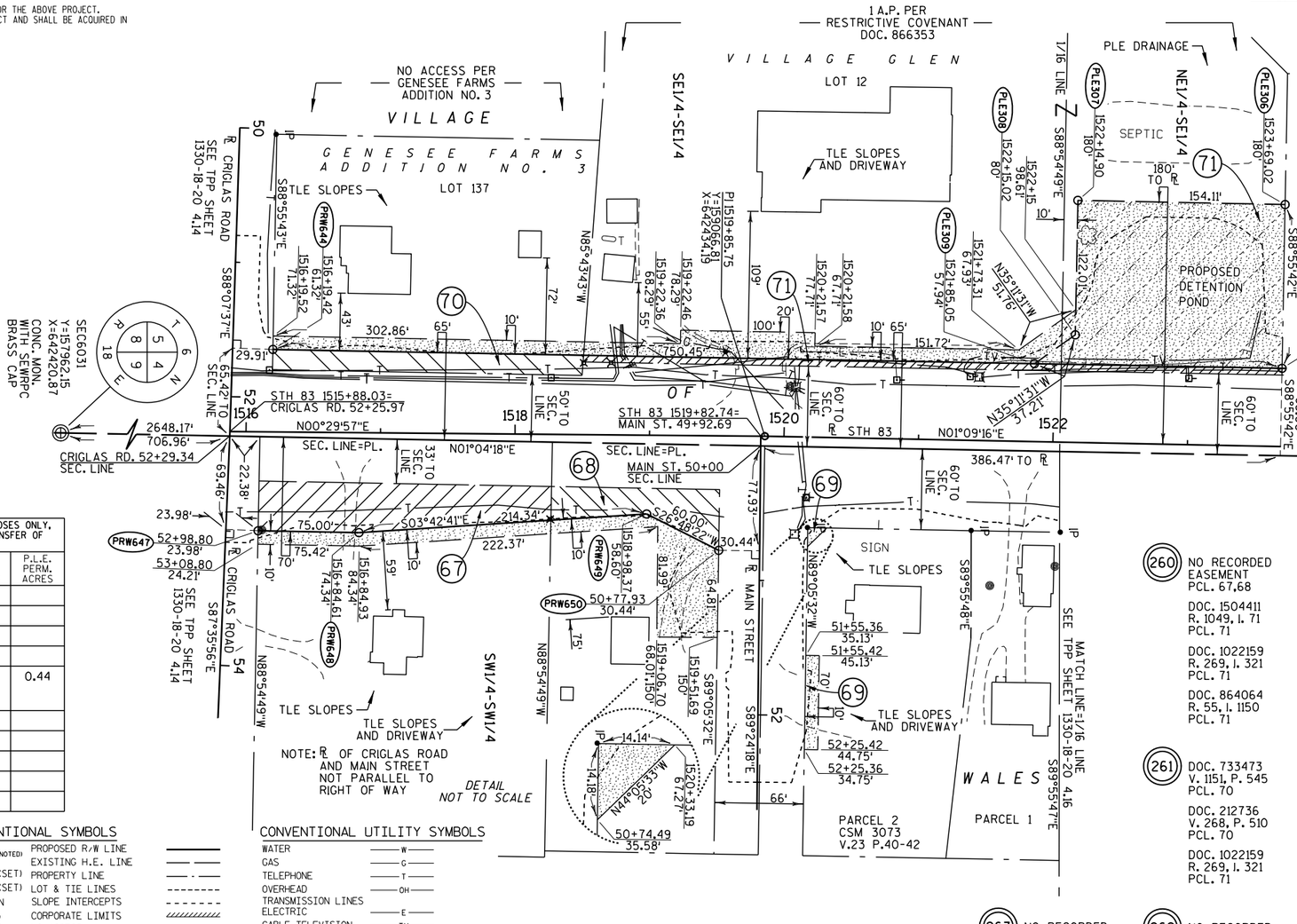
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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.

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
67	LORI A. MARKS	FEE,TLE	0.17	0.16	0.33	0.05	
68	COTTAGE ON MAIN L.L.C.	FEE,TLE	0.08	0.15	0.23	0.10	
69	HARRIS DEVELOPMENT GROUP L.L.C.	TLE				0.02	
70	EUGENE H. & TAMMIE J. GRONEWALD	FEE,TLE	0.08		0.08	0.05	
71	CORPORATION OF THE PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS	FEE,PLE, TLE	0.06		0.06	0.11	0.44
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
262	AT&T CORP.	ROR					
263	WE ENERGIES GAS	ROR					
264	TIME WARNER CABLE	ROR					



CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	℄	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℞		

CURVE DATA

LONG CHORD	LCH	FOUND IRON PIPE/PIN	
LONG CHORD BEARING	LCB		
RADIUS	R	R/W MONUMENT	
DEGREE OF CURVE	D	R/W STANDARD	
CENTRAL ANGLE OR DELTA	DELTA	SIGN	
LENGTH OF CURVE	L	SECTION CORNER MONUMENT	
TANGENT	TAN	SECTION CORNER SYMBOL	
		FEE (HATCH VARIES)	
		TEMPORARY LIMITED EASEMENT	
		PERMANENT LIMITED EASEMENT	
		R/W BOUNDARY POINT	
		PARCEL NUMBER	
		UTILITY PARCEL NUMBER	
		SIGN NUMBER (OFF PREMISE)	
		BUILDING	

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/21/11 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/21/11 — Name WALTER C. ZENDEK

(260) NO RECORDED EASEMENT PCL. 67,68
DOC. 1504411 R. 1049, I. 71 PCL. 71
DOC. 1022159 R. 269, I. 321 PCL. 71
DOC. 864064 R. 55, I. 1150 PCL. 71

(261) DOC. 733473 V. 1151, P. 545 PCL. 70
DOC. 212736 V. 268, P. 510 PCL. 70
DOC. 1022159 R. 269, I. 321 PCL. 71

(263) NO RECORDED EASEMENT PCL. 71

(262) NO RECORDED EASEMENT PCL. 67,68
DOC. 733473 V. 1151, P. 545 PCL. 70

(264) NO RECORDED EASEMENT PCL. 71

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.15
AMENDMENT NO:

3876772
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
December 05, 2011 10:56 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 111-111

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

FILE NAME : j:\projects\d2_r_13301883\040415_RP.dgn PLOT DATE : 06-DEC-2011 09:24 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.15

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.16 AMENDMENT NO. 1

AMENDS TPP SHEET 1330-18-20-4.16 RECORDED IN BOOK 1, PAGE 112 AS DOCUMENT NUMBER 3876773 BY REVISING THE PLE AND TLE AREAS OF PARCEL 72, BY AMENDING PARCEL 261 AND REMOVING PARCEL 268.

THAT PART OF LOTS 1 AND 19 OF VILLAGE GLEN AND PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5, PART OF LOTS 1 AND 2 OF CSM 8557, PART OF THE GLACIAL DRUMLIN STATE TRAIL AND PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 4 IN THE VILLAGE OF WALES, AND PART OF THE GLACIAL DRUMLIN STATE TRAIL IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5 IN THE TOWN OF GENESEE, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, WAUKESHA COUNTY WISCONSIN

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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".

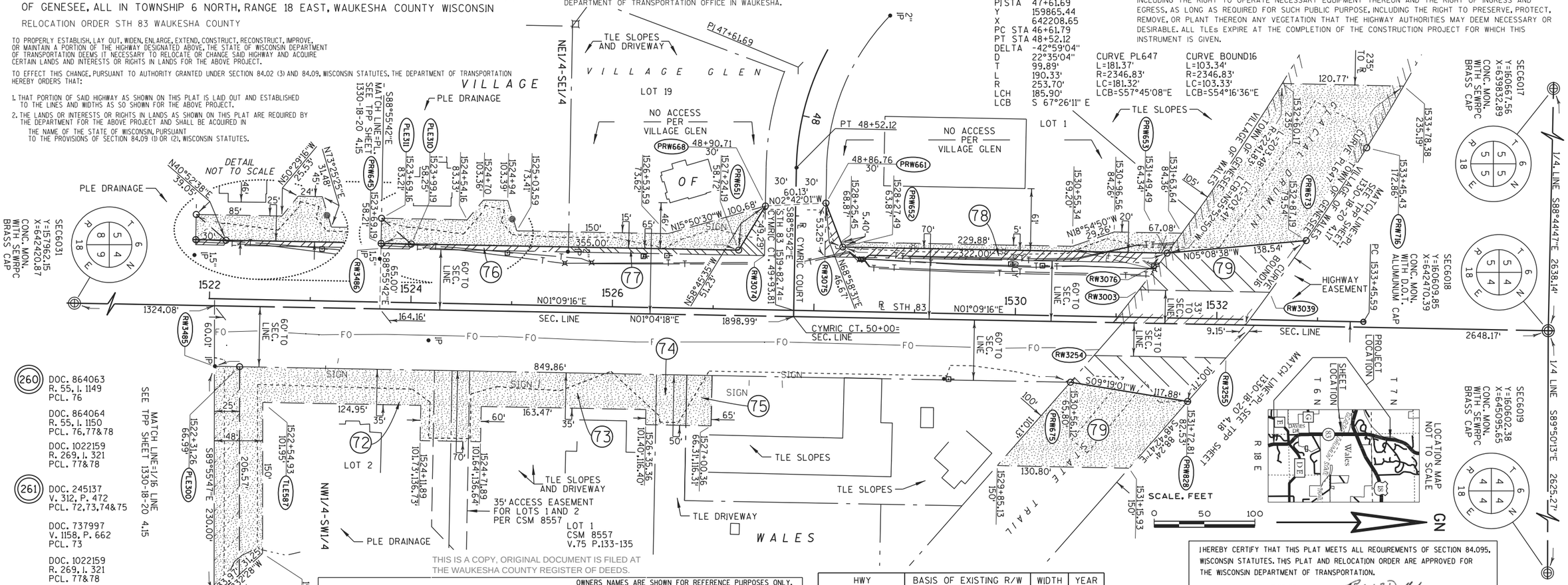
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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.



R CYMRIC COURT	
PI STA	47+61.69
Y	159865.44
X	642208.65
PC STA	46+61.79
PT STA	48+52.12
DELTA	-42°59'04"
D	22°35'04"
T	99.89'
L	190.33'
R	253.70'
LCH	185.90'
LCB	S 67°26'11" E

CURVE PL647	
L	181.37'
R	2346.83'
LC	181.32'
LCB	S57°45'08"E

CURVE BOUND16	
L	103.34'
R	2346.83'
LC	103.33'
LCB	S54°16'36"E

260 DOC. 864063 R. 55, I. 1149 PCL. 76

DOC. 864064 R. 55, I. 1150 PCL. 76,77&78

DOC. 1022159 R. 269, I. 321 PCL. 77&78

261 DOC. 245137 V. 312, P. 472 PCL. 72,73,74&75

DOC. 737997 V. 1158, P. 662 PCL. 73

DOC. 1022159 R. 269, I. 321 PCL. 77&78

265 DOC. 2535307 PCL. 72

266 DOC. 2544788 PCL. 79

267 DOC. 1459241 R. 961, I. 84 PCL. 79

DOC. 1295759 R. 671, I. 1011 PCL. 79

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
72	JEANNE'S TOTAL IMAGE L.L.C.	PLE,TLE				0.28	0.13
73	KYUNG-SOOK THUMANN	TLE				0.19	
74	WE ENERGIES ELECTRIC	TLE				0.03	
75	WALES LAWN & GARDEN, INC.	TLE				0.03	
76	ANDREW MILLS	FEE,PLE,TLE	0.02		0.02	0.10	0.01
77	JACQUES HOEFFLEUR	FEE,TLE	0.04		0.04	0.09	
78	CYMRIC CORNERS L.L.C.	FEE,TLE	0.09		0.09	0.07	
79	WISCONSIN DEPT. OF NATURAL RESOURCES	HE,TLE	0.24	0.20	0.44	0.69	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
264	TIME WARNER CABLE	ROR					
265	VILLAGE OF WALES	ROR					
266	LEVEL (3)	ROR					
267	SPRINT COMMUNICATIONS CO.	ROR					

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT SG04801(1)	120'	1954
STH 83	VILLAGE GLEN	60'	1977
STH 83	WIS. STATUTE 82.31(2)	66'	
CYMRIC COURT	VILLAGE GLEN	60'	1977

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN — LS (1" UNLESS NOTED)
R/W MONUMENT — •(SET)
R/W STANDARD — ▲(SET)
SIGN — ISIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH		
LONG CHORD BEARING	LCB		
RADIUS	R		
DEGREE OF CURVE	D		
CENTRAL ANGLE OR DELTA	DELTA		
LENGTH OF CURVE	L		
TANGENT	TAN		

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 7/17/12 — Robert L Duffeck
Name ROBERT L. DUFFECK
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 7/17/12 — Walter C. Zendek
Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.16
AMENDMENT NO: 1

3935228
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
July 23, 2012 11:01 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 141-141

494

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.16

THAT PART OF LOTS 1 AND 19 OF VILLAGE GLEN AND PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5, PART OF LOTS 1 AND 2 OF CSM 8557, PART OF THE GLACIAL DRUMLIN STATE TRAIL AND PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 4 IN THE VILLAGE OF WALES, AND PART OF THE GLACIAL DRUMLIN STATE TRAIL IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 5 IN THE TOWN OF GENESEE, ALL IN TOWNSHIP 6 NORTH, RANGE 18 EAST, WAUKESHA COUNTY WISCONSIN

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT SG0480(1)	120'	1954
STH 83	VILLAGE GLEN	60'	1977
STH 83	WIS. STATUTE 82.31(2)	66'	
CYMRIC COURT	VILLAGE GLEN	60'	1977

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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".

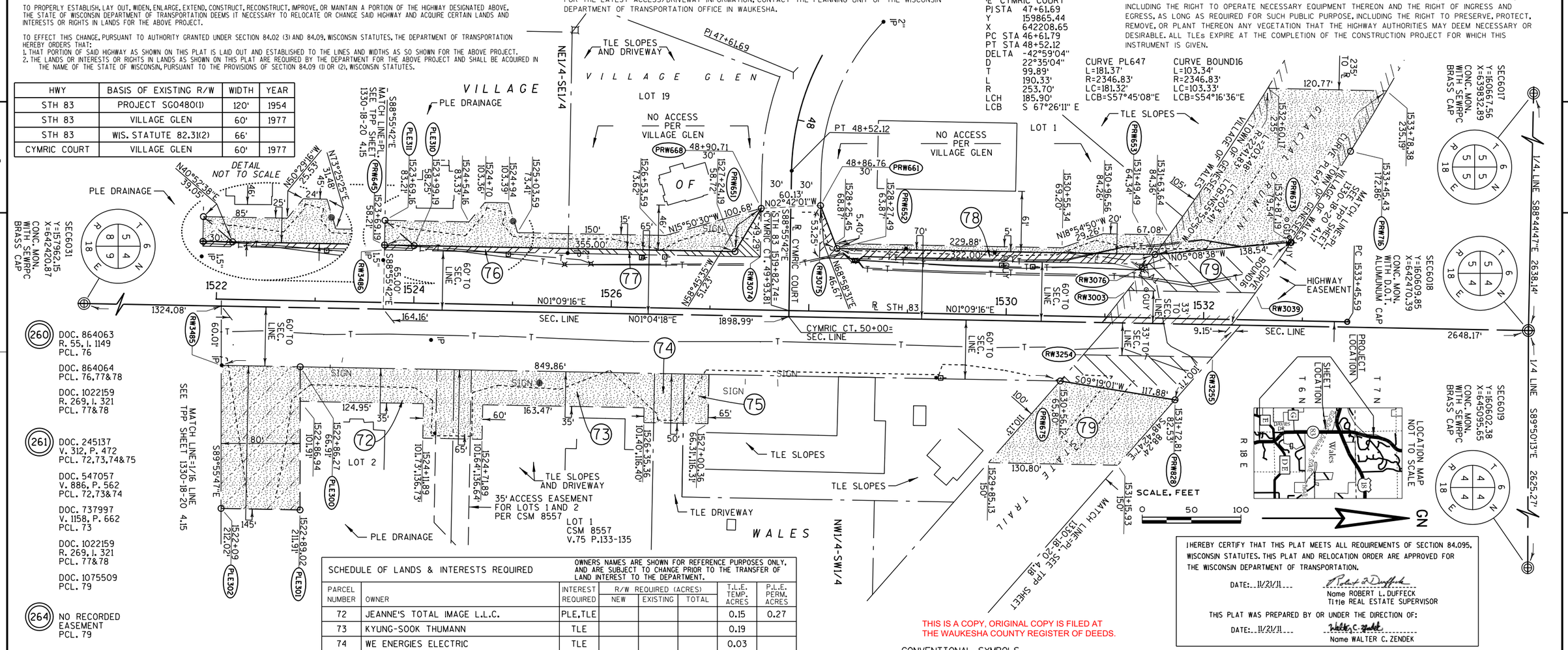
PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

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.



SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
72	JEANNE'S TOTAL IMAGE L.L.C.	PLE,TLE				0.15	0.27
73	KYUNG-SOOK THUMANN	TLE				0.19	
74	WE ENERGIES ELECTRIC	TLE				0.03	
75	WALES LAWN & GARDEN, INC.	TLE				0.03	
76	ANDREW MILLS	FEE,PLE, TLE	0.02		0.02	0.10	0.01
77	JACQUES HOEFFLEUR	FEE,TLE	0.04		0.04	0.09	
78	CYMRIC CORNERS L.L.C.	FEE,TLE	0.09		0.09	0.07	
79	WISCONSIN DEPT. OF NATURAL RESOURCES	HE,TLE	0.24	0.20	0.44	0.69	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
264	TIME WARNER CABLE	ROR					
265	VILLAGE OF WALES	ROR					
266	LEVEL (3)	ROR					
267	SPRINT COMMUNICATIONS CO.	ROR					
268	US TELECOM	ROR					

(260) DOC. 864063 R. 55, I. 1149 PCL. 76
DOC. 864064 PCL. 76,77&78
DOC. 1022159 R. 269, I. 321 PCL. 77&78

(261) DOC. 245137 V. 312, P. 472 PCL. 72,73,74&75
DOC. 547057 V. 886, P. 562 PCL. 72,73&74
DOC. 737997 V. 1158, P. 662 PCL. 73
DOC. 1022159 R. 269, I. 321 PCL. 77&78
DOC. 1075509 PCL. 79

(264) NO RECORDED EASEMENT PCL. 79

(265) DOC. 2535307 PCL. 72

(266) DOC. 2544788 PCL. 79

(267) DOC. 1459241 R. 961, I. 84 PCL. 79

(268) DOC. 1295759 R. 671, I. 1011 PCL. 79

CONVENTIONAL UTILITY SYMBOLS

		NON COMPENSABLE	COMPENSABLE
WATER	W		
GAS	G		
TELEPHONE	T		
OVERHEAD TRANSMISSION LINES	OH		
ELECTRIC	E		
CABLE TELEVISION	TV		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		
POWER POLE			
TELEPHONE POLE			
TELEPHONE PEDESTAL			
ELECTRIC TOWER			

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/21/11 — Robert L. Duffeck
Name ROBERT L. DUFFECK
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/21/11 — Walter C. Zendek
Name WALTER C. ZENDEK

THIS IS A COPY, ORIGINAL COPY IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN
R/W MONUMENT
R/W STANDARD
SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING
PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH		
LONG CHORD BEARING	LCB		
RADIUS	R		
DEGREE OF CURVE	D		
CENTRAL ANGLE OR DELTA	DELTA		
LENGTH OF CURVE	L		
TANGENT	TAN		

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.16
AMENDMENT NO:

3876773
REGISTER OF DEEDS WAUKESHA COUNTY, WI RECORDED ON
December 05, 2011 10:56 AM
James R Behrend Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 112-112

FILE NAME : j:\projects\d2_r_13301883\040416_RP.dgn PLOT DATE : 06-DEC-2011 10:07 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.16

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.17 AMENDMENT 1

AMENDS TPP SHEET 1330-18-20-4.17 RECORDED IN BOOK 1, PAGE 133 AS DOCUMENT NUMBER 3930222 BY CHANGING THE FEE AREA OF PARCEL 81 TO PLE AND BY REMOVING PARCEL 264.

THAT PART OF PARCEL 1 OF CSM 8115 IN THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, AND PARCEL 2 OF CSM 8115 IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 5, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

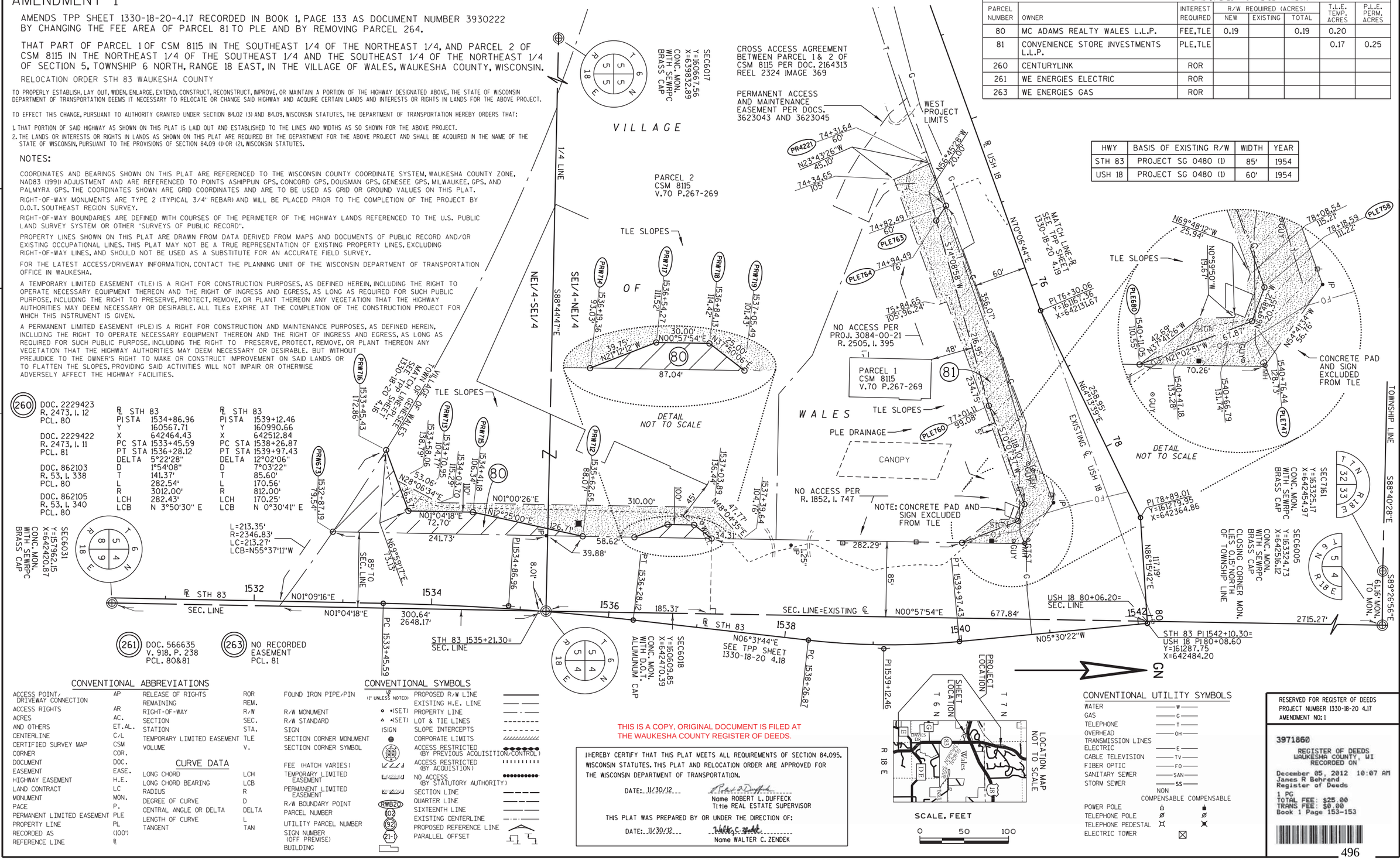
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

SCHEDULE OF LANDS & INTERESTS REQUIRED			OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.				
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
80	MC ADAMS REALTY WALES L.L.P.	FEE,TLE	0.19		0.19	0.20	
81	CONVENIENCE STORE INVESTMENTS L.L.P.	PLE,TLE				0.17	0.25
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
263	WE ENERGIES GAS	ROR					

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT SG 0480 (1)	85'	1954
USH 18	PROJECT SG 0480 (1)	60'	1954



260 DOC. 2229423 R. 2473, I. 12 PCL. 80
DOC. 2229422 R. 2473, I. 11 PCL. 81
DOC. 862103 R. 53, I. 338 PCL. 80
DOC. 862105 R. 53, I. 340 PCL. 80

℄ STH 83	
PISTA	1534+86.96
Y	160567.71
X	642464.43
PC STA	1533+45.59
PT STA	1536+28.12
DELTA	5°22'28"
D	1°54'08"
T	141.37'
L	282.54'
R	3012.00'
LCH	282.43'
LCB	N 3°50'30" E

℄ STH 83	
PISTA	1539+12.46
Y	160990.66
X	642512.84
PC STA	1538+26.87
PT STA	1539+97.43
DELTA	12°02'06"
D	7°03'22"
T	85.60'
L	170.56'
R	812.00'
LCH	170.25'
LCB	N 0°30'41" E

261 DOC. 566635 V. 918, P. 238 PCL. 80&81

263 NO RECORDED EASEMENT PCL. 81

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH	FOUND IRON PIPE/PIN	
LONG CHORD BEARING	LCB	R/W MONUMENT	
RADIUS	R	R/W STANDARD	
DEGREE OF CURVE	D	SIGN	
CENTRAL ANGLE OR DELTA	DELTA	SECTION CORNER MONUMENT	
LENGTH OF CURVE	L	SECTION CORNER SYMBOL	
TANGENT	TAN	FEE (HATCH VARIES)	
		TEMPORARY LIMITED EASEMENT	
		PERMANENT LIMITED EASEMENT	
		R/W BOUNDARY POINT	
		PARCEL NUMBER	
		UTILITY PARCEL NUMBER	
		SIGN NUMBER (OFF PREMISE)	
		BUILDING	

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
CORPORATE LIMITS	
SLOPE INTERCEPTS	
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
ACCESS RESTRICTED (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 11/30/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 11/30/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.17
AMENDMENT NO: 1

3971860
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
December 05, 2012 10:07 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 153-153

FILE NAME : j:\projects\d2_r_13301883\040417A1_RP.dgn PLOT DATE : 05-DEC-2012 13:26 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.17 AMENDMENT 1

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.17

THAT PART OF PARCEL 1 OF CSM 8115 IN THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4, AND PARCEL 2 OF CSM 8115 IN THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 5, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
80	MC ADAMS REALTY WALES L.L.P.	FEE,TLE	0.19		0.19	0.20	
81	CONVENIENCE STORE INVESTMENTS L.L.P.	FEE,TLE	0.25		0.25	0.17	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
263	WE ENERGIES GAS	ROR					
264	TIME WARNER CABLE	ROR					

(260) DOC. 2229423 R. 2473, I. 12 PCL. 80

DOC. 2229422 R. 2473, I. 11 PCL. 81

DOC. 862103 R. 53, I. 338 PCL. 80

DOC. 862105 R. 53, I. 340 PCL. 80

(261) DOC. 566635 V. 918, P. 238 PCL. 80&81

(263) NO RECORDED EASEMENT PCL. 81

(264) NO RECORDED EASEMENT PCL. 81

℄ STH 83	
PI STA	1534+86.96
Y	160567.71
X	642464.43
PC STA	1533+45.59
PT STA	1536+28.12
DELTA	5°22'28"
D	1°54'08"
T	141.37'
L	282.54'
R	3012.00'
LCH	282.43'
LCB	N 3°50'30" E

℄ STH 83	
PI STA	1539+12.46
Y	160990.66
X	642512.84
PC STA	1538+26.87
PT STA	1539+97.43
DELTA	12°02'06"
D	7°03'22"
T	85.60'
L	170.56'
R	812.00'
LCH	170.25'
LCB	N 0°30'41" E

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT SG 0480 (1)	85'	1954
USH 18	PROJECT SG 0480 (1)	60'	1954

SEC6017 Y=160667.56 X=639832.89 CONC. MON. WITH SEWRPC BRASS CAP

SEC6031 Y=157962.15 X=642420.87 CONC. MON. WITH SEWRPC BRASS CAP

SEC7161 Y=163325.17 X=642454.97 CONC. MON. WITH SEWRPC BRASS CAP

SEC6005 Y=163324.73 X=642516.12 CONC. MON. WITH SEWRPC BRASS CAP CLOSING CORNER MON. LIES 0.15' NORTH OF TOWNSHIP LINE

SEC6018 Y=160609.85 X=642470.39 CONC. MON. WITH D.O.T. ALUMINUM CAP

CROSS ACCESS AGREEMENT BETWEEN PARCEL 1& 2 OF CSM 8115 PER DOC. 2164313 REEL 2324 IMAGE 369

PERMANENT ACCESS AND MAINTENANCE EASEMENT PER DOCS. 3623043 AND 3623045

PARCEL 2 CSM 8115 V.70 P.267-269

PARCEL 1 CSM 8115 V.70 P.267-269

NO ACCESS PER PROJ. 3084-00-21 R. 2505, I. 395

NO ACCESS PER R. 1852, I. 747

NOTE: CONCRETE PAD AND SIGN EXCLUDED FROM TLE

CANOPY

TLE SLOPES

DETAIL NOT TO SCALE

DETAIL NOT TO SCALE

CONCRETE PAD AND SIGN EXCLUDED FROM TLE

MATCH LINE-SEE TPP SHEET 1330-18-20 4.19

MATCH LINE-SEE TPP SHEET 1330-18-20 4.18

WEST PROJECT LIMITS

PROJECT LOCATION

SHEET LOCATION

LOCATION MAP NOT TO SCALE

SCALE, FEET 0 50 100

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT AND ARE REFERENCED TO POINTS ASHIPPUN GPS, CONCORD GPS, DOUSMAN GPS, GENESEE GPS, MILWAUKEE, GPS, AND PALMYRA GPS. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH		
LONG CHORD BEARING	LCB		
RADIUS	R		
DEGREE OF CURVE	D		
CENTRAL ANGLE OR DELTA	DELTA		
LENGTH OF CURVE	L		
TANGENT	TAN		

FOUND IRON PIPE/PIN	℄ (1" UNLESS NOTED)
R/W MONUMENT	•(SET)
R/W STANDARD	▲(SET)
SIGN	ISIGN
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	
PARCEL NUMBER	RWB20
UTILITY PARCEL NUMBER	02
SIGN NUMBER (OFF PREMISE)	92
BUILDING	21-1

CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
ACCESS RESTRICTED (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/21/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

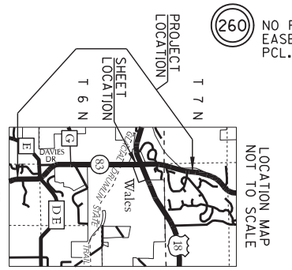
DATE: 6/21/12 — Name WALTER C. ZENDEK

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

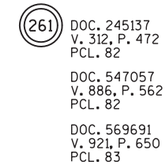
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.17
AMENDMENT NO:

3930222
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
July 02 2012 01:27 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 133-133

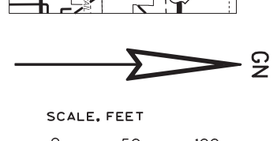


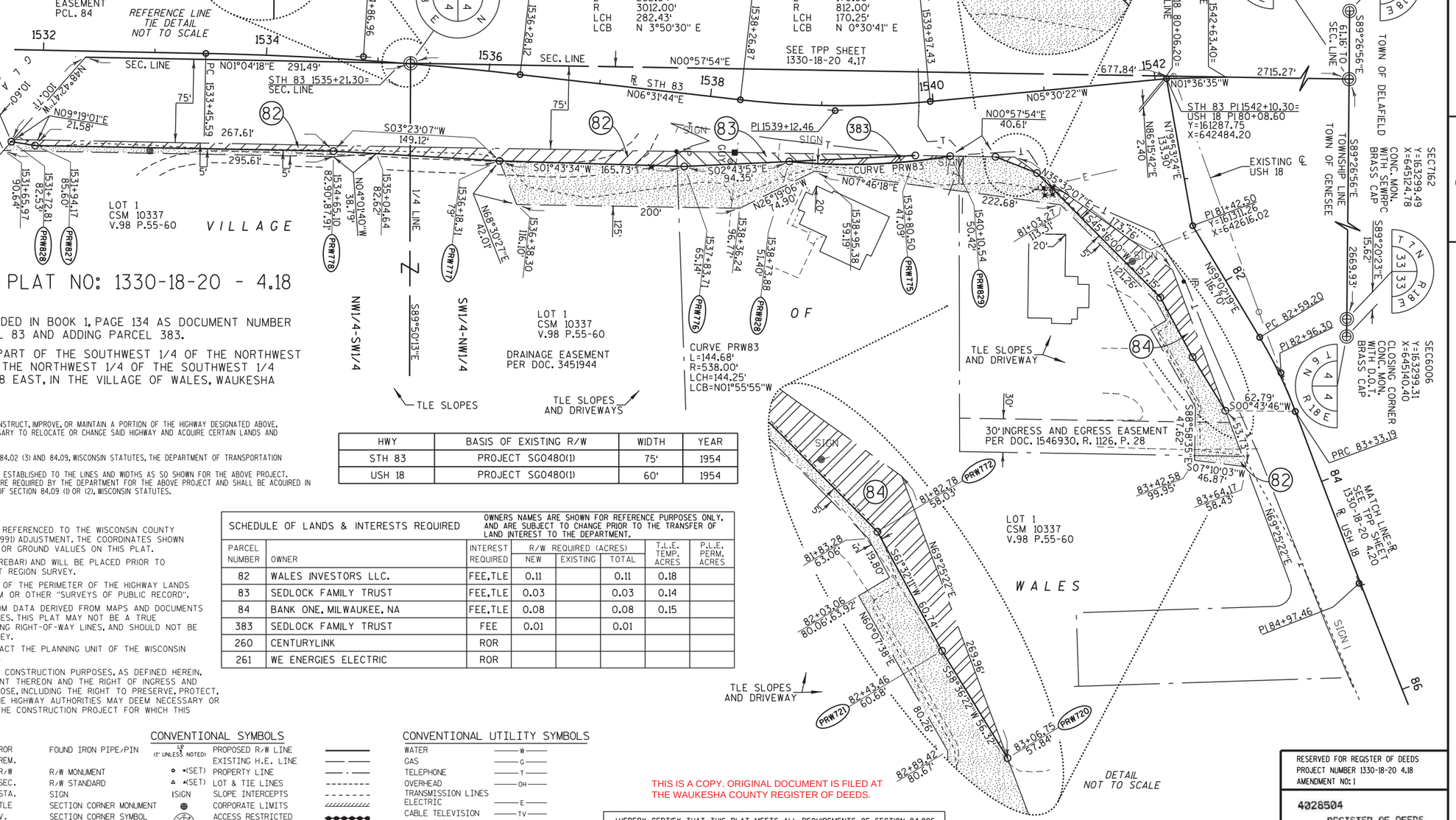
260 NO RECORDED EASEMENT PCL. 82, 83&84

261 DOC. 245137 V. 312, P. 472 PCL. 82
DOC. 547057 V. 886, P. 562 PCL. 82
DOC. 569691 V. 921, P. 650 PCL. 83
NO RECORDED EASEMENT PCL. 84



SEC6018 Y=160609.85 X=642470.39 CONC. MON. WITH D.O.T. ALUMINUM CAP





SEC7161 Y=163325.17 X=642454.97 CONC. MON. WITH SEMRPC BRASS CAP

SEC6005 Y=163324.73 X=642516.12 CONC. MON. WITH SEMRPC BRASS CAP CLOSING CORNER MON. LIES 0.15' NORTH OF TOWNSHIP LINE

SEC7162 Y=163299.49 X=645124.78 CONC. MON. WITH SEMRPC BRASS CAP

SEC6006 Y=163299.31 X=645140.40 CONC. MON. WITH D.O.T. BRASS CAP CLOSING CORNER

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.18 AMENDMENT 1

AMENDS TPP SHEET 1330-18-20-4.18 RECORDED IN BOOK 1, PAGE 134 AS DOCUMENT NUMBER 3930223 BY AMENDING THE TLE ON PARCEL 83 AND ADDING PARCEL 383.

THAT PART OF LOT 1 OF CSM 10337 AND PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4, AND PART OF LOT 1 OF CSM 10337 IN THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 4, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT SG0480(1)	75'	1954
USH 18	PROJECT SG0480(1)	60'	1954

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
82	WALES INVESTORS LLC.	FEE,TLE	0.11		0.11	0.18	
83	SEDLOCK FAMILY TRUST	FEE,TLE	0.03		0.03	0.14	
84	BANK ONE, MILWAUKEE, NA	FEE,TLE	0.08		0.08	0.15	
383	SEDLOCK FAMILY TRUST	FEE	0.01		0.01		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH	TEMPORARY LIMITED EASEMENT	
LONG CHORD BEARING	LCB	PERMANENT LIMITED EASEMENT	
RADIUS	R	R/W BOUNDARY POINT	
DEGREE OF CURVE	D	PARCEL NUMBER	
CENTRAL ANGLE OR DELTA	DELTA	UTILITY PARCEL NUMBER	
LENGTH OF CURVE	L	SIGN NUMBER (OFF PREMISE)	
TANGENT	TAN	BUILDING	

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)	PROPOSED R/W LINE
•(SET)	EXISTING H.E. LINE
▲(SET)	PROPERTY LINE
	LOT & TIE LINES
ISIGN	SLOPE INTERCEPTS
	CORPORATE LIMITS
	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
	ACCESS RESTRICTED (BY ACQUISTION)
	NO ACCESS (BY STATUTORY AUTHORITY)
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	EXISTING CENTERLINE
	PROPOSED REFERENCE LINE
	PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES		
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY. ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 7/11/13 — ROBERT L. DUFFECK, REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 7/11/13 — WALTER C. ZENDEK

℄ USH 18	
PI STA	82+96.30
Y	161390.38
X	642747.91
DELTA	10°35'52"
D	14°19'26"
T	37.10'
L	73.99'
R	400.00'
LCH	73.88'
LCB	N 64°20'15" E

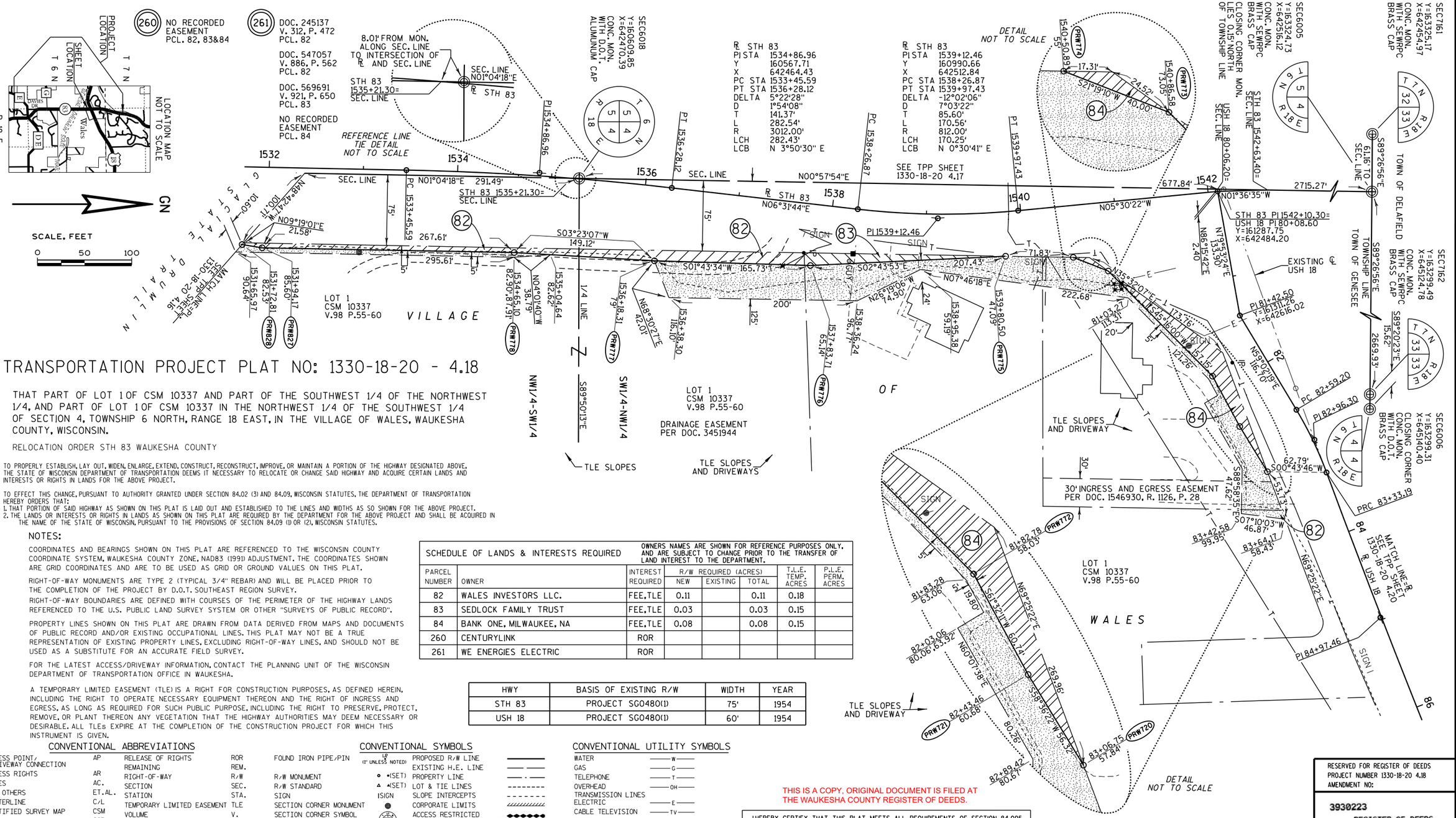
℄ USH 18	
PI STA	84+97.46
Y	161460.46
X	642936.70
DELTA	~1°38'33"
D	0°30'00"
T	164.27'
L	328.52'
R	11459.16'
LCH	328.51'
LCB	N 68°48'55" E

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.18
AMENDMENT NO: 1

4028504
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
July 15, 2013 02:11 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 158-158

FILE NAME : j:\projects\d2_r_13301883\040418A1_RP.dgn PLOT DATE : 16-JUL-2013 07:55 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.18 AMENDMENT 1



TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.18

THAT PART OF LOT 1 OF CSM 10337 AND PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4, AND PART OF LOT 1 OF CSM 10337 IN THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 4, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN ON 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.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
82	WALES INVESTORS LLC.	FEE,TLE	0.11		0.11	0.18	
83	SEDLOCK FAMILY TRUST	FEE,TLE	0.03		0.03	0.15	
84	BANK ONE, MILWAUKEE, NA	FEE,TLE	0.08		0.08	0.15	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT SG0480(1)	75'	1954
USH 18	PROJECT SG0480(1)	60'	1954

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	℄		

CONVENTIONAL SYMBOLS

- FOUND IRON PIPE/PIN (1" UNLESS NOTED)
- R/W MONUMENT •(SET)
- R/W STANDARD ▲(SET)
- SIGN
- SECTION CORNER MONUMENT
- SECTION CORNER SYMBOL
- FEE (HATCH VARIES)
- TEMPORARY LIMITED EASEMENT
- PERMANENT LIMITED EASEMENT
- R/W BOUNDARY POINT
- PARCEL NUMBER (102)
- UTILITY PARCEL NUMBER (92)
- SIGN NUMBER (OFF PREMISE) (21-1)
- BUILDING

- PROPOSED R/W LINE
- EXISTING H.E. LINE
- PROPERTY LINE
- LOT & TIE LINES
- SLOPE INTERCEPTS
- CORPORATE LIMITS
- ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
- ACCESS RESTRICTED (BY ACQUISITION)
- NO ACCESS (BY STATUTORY AUTHORITY)
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- EXISTING CENTERLINE
- PROPOSED REFERENCE LINE
- PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	—W—	
GAS	—G—	
TELEPHONE	—T—	
OVERHEAD TRANSMISSION LINES ELECTRIC	—OH—	
	—E—	
CABLE TELEVISION	—TV—	
FIBER OPTIC	—FO—	
SANITARY SEWER	—SAN—	
STORM SEWER	—SS—	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/21/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6/21/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.18
AMENDMENT NO:

3930223
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
July 02, 2012 01:27 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 134-134

℄ USH 18
PI STA 82+96.30
Y 161390.38
X 642747.91
DELTA 10°35'52"
D 14°19'26"
T 37.10'
L 73.99'
R 400.00'
LCH 73.88'
LCB N 64°20'15" E

℄ USH 18
PI STA 84+97.46
Y 161460.46
X 642936.70
DELTA -1°38'33"
D 0°30'00"
T 164.27'
L 328.52'
R 11459.16'
LCH 328.51'
LCB N 68°48'55" E

FILE NAME : J:\projects\d2_r_13301883\040418_RP.dgn PLOT DATE : 02-JUL-2012 14:53 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.18

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.19

THAT PART OF LOTS 1, 2 AND 3 OF CSM 10636 LOCATED IN THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 5, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	DOC. 3625348	VARIES	2009
USH 18	CSM 10636	VARIES	2009
BLACKWOOD DRIVE	CSM 10636	60'	2009

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
85	BRIC (HIGHWAYS18&83) ASSOC.	FEE	0.10		0.10		
86	TOWN BANK	FEE,TLE	0.02		0.02	0.01	
87	MO LLC. & TENBY HARBOR LLC.	FEE,TLE	0.11		0.11	0.05	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/20/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6/20/12 — Name WALTER C. ZENDEK

260 DOC. 3585131 PCL. 86&87

261 DOC. 3585131 PCL. 86&87

DOC. 3608929 PCL. 85,86&87

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

FOUND IRON PIPE/PIN	
R/W MONUMENT	
R/W STANDARD	
SIGN	
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	
PARCEL NUMBER	
UTILITY PARCEL NUMBER	
SIGN NUMBER (OFF PREMISE)	
BUILDING	

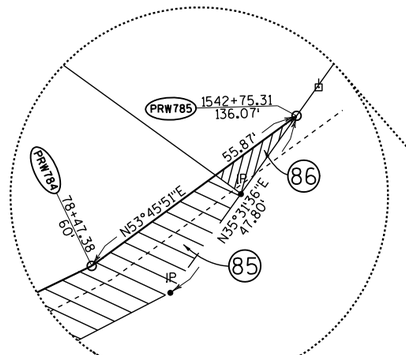
CONVENTIONAL SYMBOLS

PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
ACCESS RESTRICTED (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

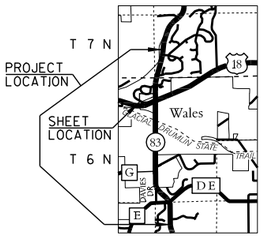
CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

DETAIL NOT TO SCALE

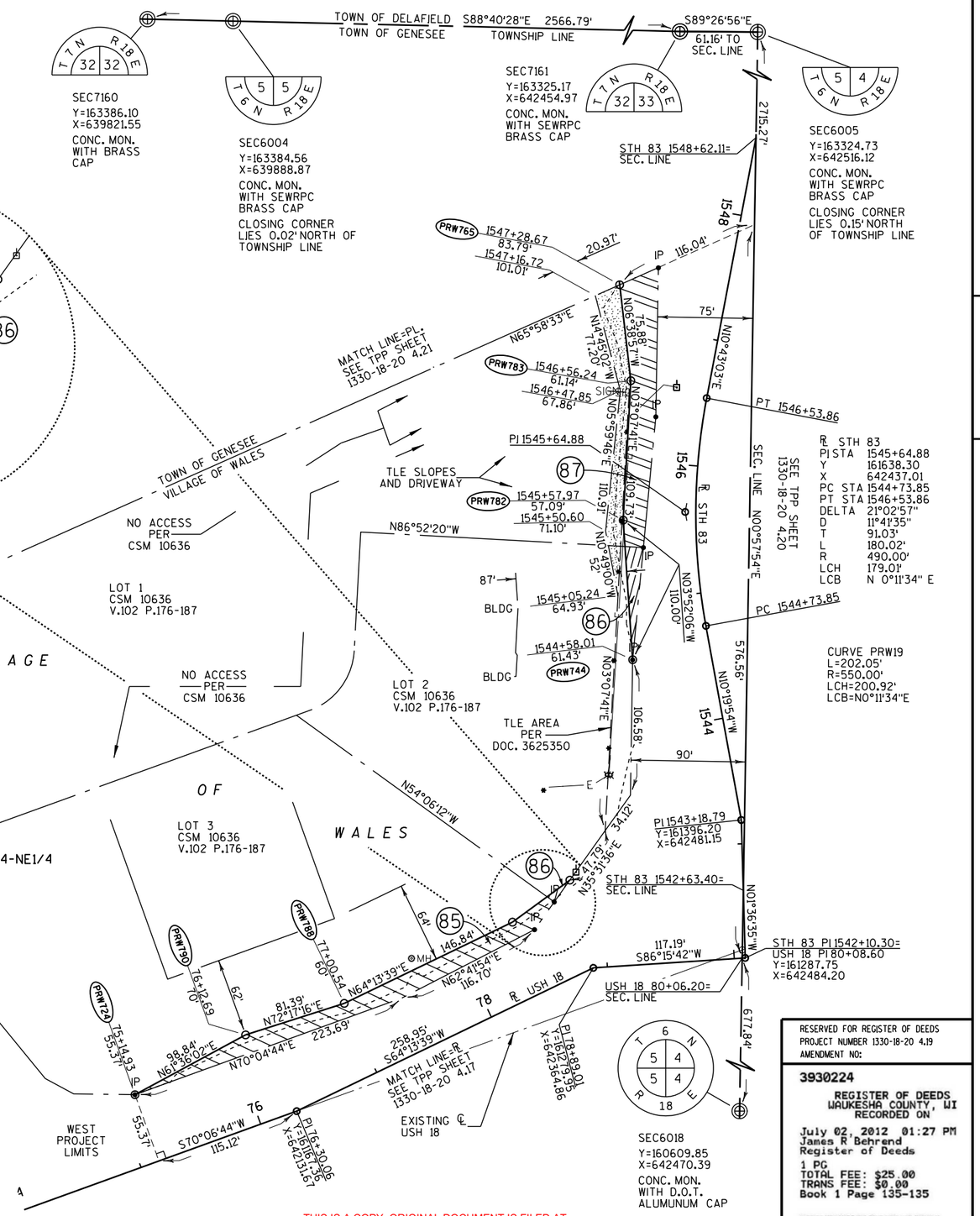


LOCATION MAP NOT TO SCALE



GN

SCALE, FEET
0 50 100



THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.19
AMENDMENT NO:

3930224
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
July 02, 2012 01:27 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 135-135

FILE NAME : J:\projects\d2_r_13301883\040419_RP.dgn PLOT DATE : 02-JUL-2012 15:09 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.19

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.20

THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES AND THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

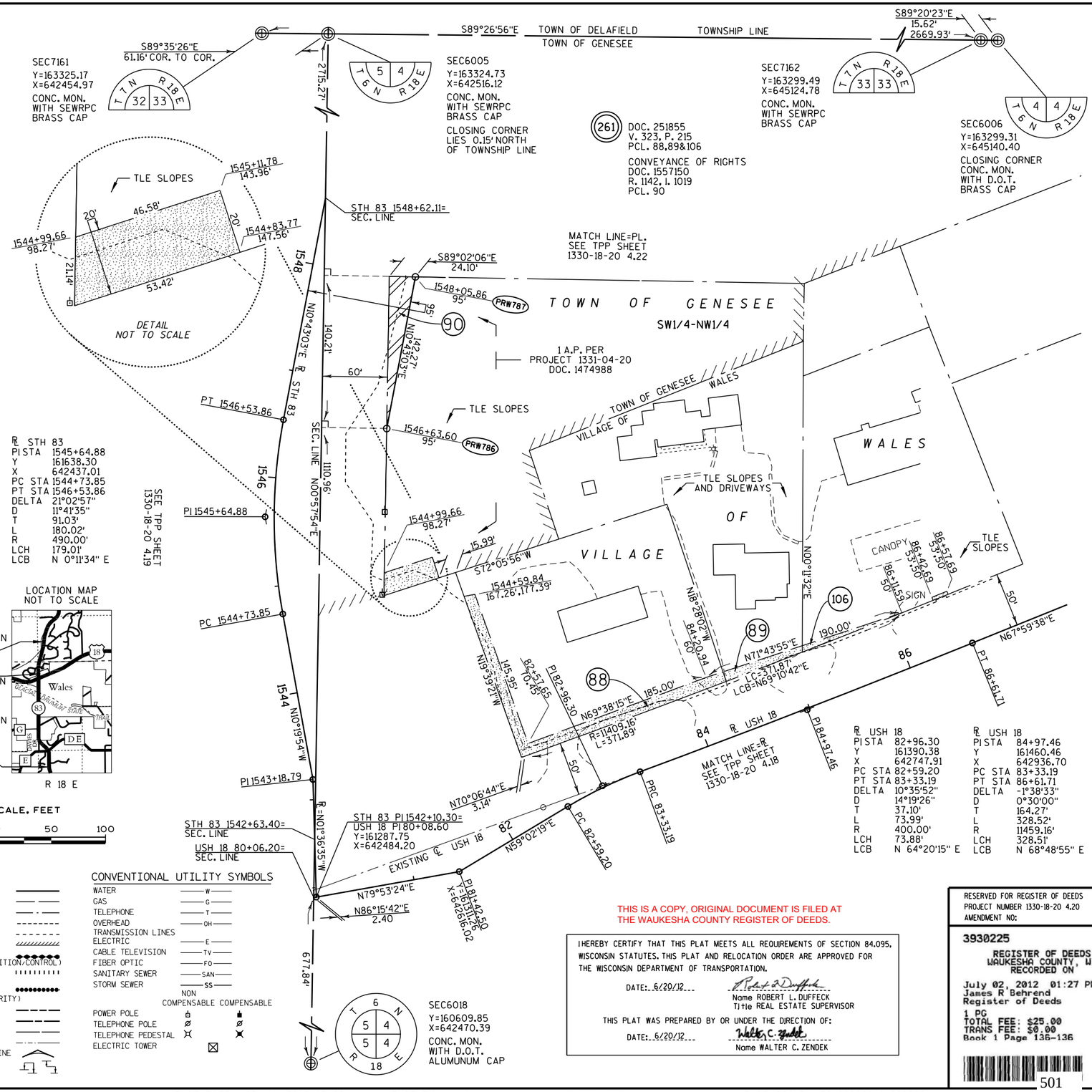
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	PROJECT SG0480(1)	VARIES	1954
STH 83	PROJECT 1331-04-20	60'	1987
USH 18	PROJECT SG0480(1)	VARIES	1954
USH 18	PROJECT 2212-1-21	50'	1975

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
88	WILKE'S INVESTMENTS, LLC.	TLE				0.08	
89	SHACKTON LLC.	TLE				0.01	
90	MONARK SUPPLY CO.	FEE,TLE	0.04		0.04	0.02	
106	ZRH, A WISCONSIN GENERAL PARTNERSHIP	TLE				0.05	
261	WE ENERGIES ELECTRIC	ROR					



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

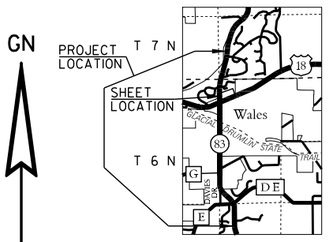
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

LOCATION MAP
NOT TO SCALE



SCALE, FEET
0 50 100

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)	
R/W MONUMENT	•(SET)
R/W STANDARD	▲(SET)
SIGN	SIGN
SECTION CORNER MONUMENT	
SECTION CORNER SYMBOL	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
R/W BOUNDARY POINT	RWB20
PARCEL NUMBER	102
UTILITY PARCEL NUMBER	32
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
LOT & TIE LINES	
SLOPE INTERCEPTS	
CORPORATE LIMITS	
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
ACCESS RESTRICTED (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
EXISTING CENTERLINE	
PROPOSED REFERENCE LINE	
PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/20/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6/20/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.20
AMENDMENT NO:

3930225
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
July 02, 2012 01:27 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 136-136

FILE NAME : J:\projects\d2_r_13301883\040420_RP.dgn PLOT DATE : 02-JUL-2012 15:22 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.20

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.21

THAT PART OF LOTS 3, 4, AND 5 OF HIGH MEADOW BLOCK 2, LOCATED IN THE NORTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 5, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	HIGH MEADOW	60'	1974
HIGH MEADOW CIRCLE	HIGH MEADOW	66'	1974
HIGH MEADOW CIRCLE	PROJECT 1331-04-20	VARIES	1987

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

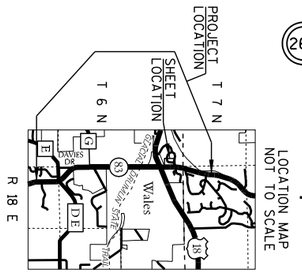
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

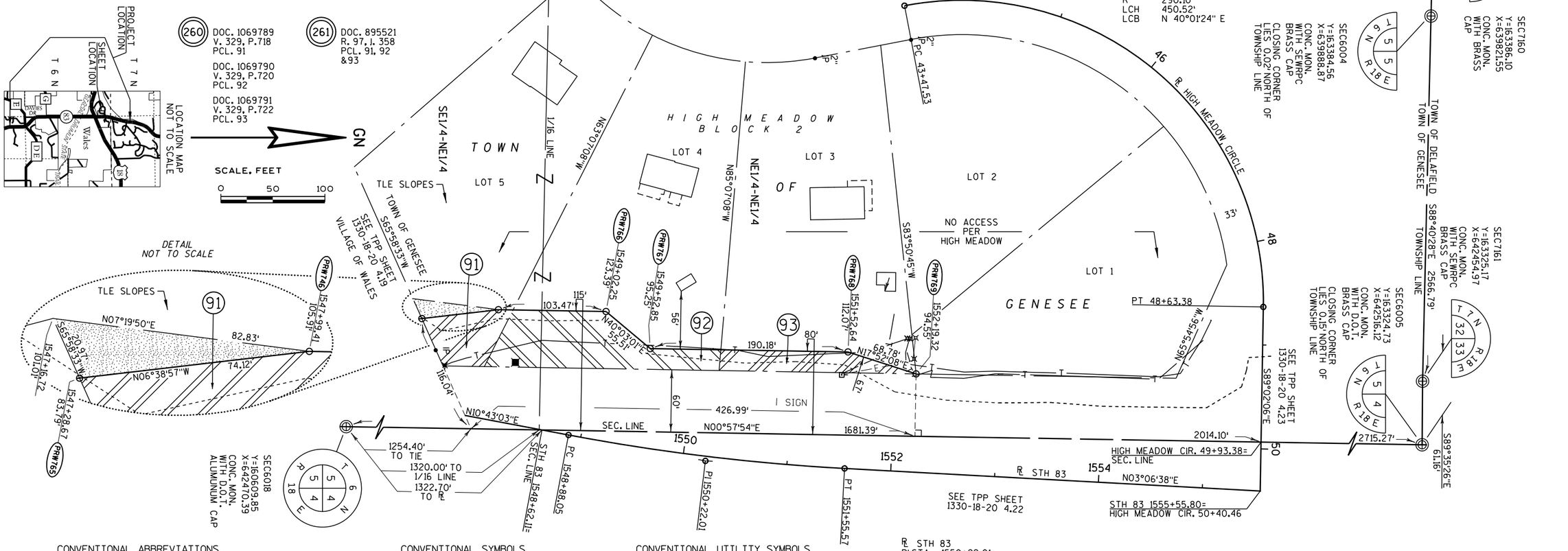
SCHEDULE OF LANDS & INTERESTS REQUIRED							OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
91	PATRICK L. LINGLE & MARY J. ANTISDEL	FEE,TLE	0.07		0.07	0.02	
92	BRIAN E. & SANDRA L. RUSSELL	FEE	0.20		0.20		
93	MATTHEW T. & SUSANNE M. NIGHBERT	FEE	0.07		0.07		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					



260 DOC. 1069789 V. 329, P.718 PCL. 91
DOC. 1069790 V. 329, P.720 PCL. 92
DOC. 1069791 V. 329, P.722 PCL. 93

261 DOC. 895521 R. 97, I. 358 PCL. 91, 92 &93

SCALE, FEET
0 50 100



CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT
R/W STANDARD
SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING

•(SET)
▲(SET)
ISIGN
RWB20
102
92
21-1

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

NON COMPENSABLE COMPENSABLE

POWER POLE
TELEPHONE POLE
TELEPHONE PEDESTAL
ELECTRIC TOWER

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/5/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6/5/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.21
AMENDMENT NO:

3926524
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
June 18, 2012 12:14 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 128-128

FILE NAME : j:\projects\d2_r_13301883\040421_RP.dgn PLOT DATE : 18-JUN-2012 13:23 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.21

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.22

THAT PART OF LOT 24 OF GENESEE WOODS LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	GENESEE WOODS	115'	1978
HIGH MEADOW LANE	GENESEE WOODS	66'	1978

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
94	ELIMINATED						
95	D. J. SCHUETZ LLC.	FEE	0.04		0.04		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

℄ STH 83
PISTA 1550+22.01
Y 162089.47
X 642522.41
PC STA 1548+88.05
PT STA 1551+55.57
DELTA -7°36'25"
D 2°50'36"
T 133.96'
L 267.52'
R 2015.00'
LCH 267.33'
LCB N 6°54'50" E

℄ HIGH MEADOW LANE
PISTA 51+84.65
Y 162620.44
X 642695.56
PC STA 51+38.38
PT STA 52+29.89
DELTA 20°58'20"
D 22°55'06"
T 46.27'
L 91.51'
R 250.00'
LCH 91.00'
LCB S 78°32'56" E

SEC7161
Y=163325.17
X=642454.97
CONC.MON. WITH SEWRPC BRASS CAP

SEC6005
Y=163324.73
X=642516.12
CONC.MON. WITH D.O.T. BRASS CAP
CLOSING CORNER LIES 0.15' NORTH OF TOWNSHIP LINE

SEC6018
Y=160609.85
X=642470.39
CONC.MON. WITH D.O.T. ALUMINUM CAP

SEC7162
Y=163299.49
X=645124.78
CONC.MON. WITH SEWRPC BRASS CAP

SEC6006
Y=163299.31
X=645140.40
CONC.MON. WITH D.O.T. BRASS CAP
CLOSING CORNER

S89°35'26"E 61.16'
STH 83 SEC. LINE
1548+62.71
PC 1548+88.05
1322.70' TO ℄
1320.00' TO 1/16 LINE
N10°43'03"E
SEC. LINE N00°57'54"E
1550
PI 1550+22.01
PT 1551+55.57
1552
115'
SEE TPP SHEET 1330-18-20 4.21
324.04'
℄ STH 83
1554
N03°06'38"E
2014.10'
701.17'
2715.27'
HIGH MEADOW CIR. 49+93.38= SEC. LINE
STH 83 1555+55.80= HIGH MEADOW CIR. 50+40.46
S33°57'15"W 37.22'
HIGH MEADOW LANE
S89°02'07"E
MATCH LINE=℄ SEE TPP SHEET 1330-18-20 4.24
TOWNSHIP LINE
S89°26'56"E
TOWN OF DELAFIELD
TOWN OF GENESEE
1548+05.86
95'
PRW787
TOWN OF GENESEE
1/16 LINE
SW1/4-NW1/4
NW1/4-NW1/4
MATCH LINE=PL. SEE TPP SHEET 1330-18-20 4.20
GENESEE WOODS
1552+34.53
80'
PRW708
N03°06'38"E
80'
260.00'
95
SIGN
IP
2"
1554+94.53
80'
PRW694
PC 51+38.37
S00°57'54"W
33'
51+38.37
33'
PRW706
PI 51+84.65
52
PT 52+29.88
33'
LOT 22
LOT 24
NO ACCESS PER GENESEE WOODS
S89°20'23"E 15.62'
2669.93'

260 DOC. 1094723
R. 362, I. 839
PCL. 95

261 DOC. 1094723
R. 362, I. 839
PCL. 95

DOC. 256609
V. 338, P. 500
PCL. 95

CONVENTIONAL ABBREVIATIONS

ACCESS POINT, DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	℄	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℞		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
•(SET)
▲(SET)
R/W MONUMENT
R/W STANDARD
SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

		NON COMPENSABLE	COMPENSABLE
WATER	W		
GAS	G		
TELEPHONE	T		
OVERHEAD	OH		
TRANSMISSION LINES			
ELECTRIC	E		
CABLE TELEVISION	TV		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		
POWER POLE			
TELEPHONE POLE			
TELEPHONE PEDESTAL			
ELECTRIC TOWER			

PROJECT LOCATION
SHEET LOCATION
T 7 N
T 6 N
R 18 E
Wales
LOCATION MAP NOT TO SCALE

GN
SCALE, FEET
0 50 100

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/5/12
Name ROBERT L. DUFFECK
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6/5/12
Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.22
AMENDMENT NO:

3926525
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
June 18, 2012 12:14 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 129-129

FILE NAME : j:\projects\d2_r_13301883\040422_RP.dgn PLOT DATE : 18-JUN-2012 13:29 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.22

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.23

THAT PART OF LOT 1 OF HIGH MEADOW BLOCK 1 AND PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 5, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

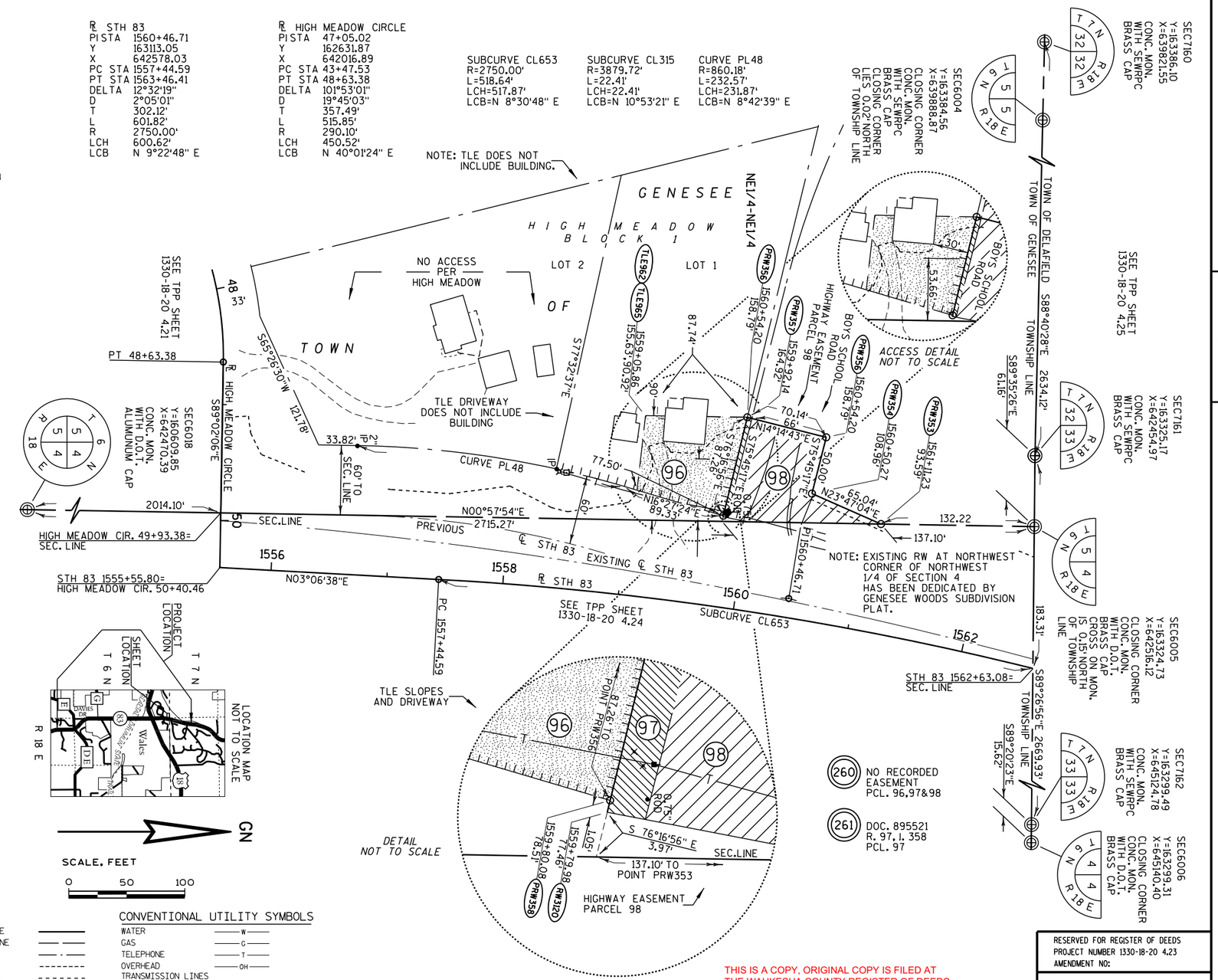
A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

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.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	HIGH MEADOW	VARIES	1978
STH 83	GENESEE WOODS	VARIES	1978
HIGH MEADOW CIRCLE	HIGH MEADOW	66'	1978
HIGH MEADOW CIRCLE	PROJECT 1331-04-20	VARIES	1987

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
96	GEROGE P. & ELIZABETH A. NEITZEL	AR,TLE				0.12	
97	KENNETH R. & MARY KAY STOCK	FEE	0.01	0.00	0.01		
98	WISCONSIN DEPARTMENT OF HEALTH AND SOCIAL SERVICES	HE	0.15	0.00	0.15		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					



CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	R/L		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

- FOUND IRON PIPE/PIN (LP (1" UNLESS NOTED))
- R/W MONUMENT (●(SET))
- R/W STANDARD (▲(SET))
- SIGN (SIGN)
- SECTION CORNER MONUMENT
- SECTION CORNER SYMBOL (CONC. MON. WITH BRASS CAP / 1/4 POINT)
- FEE (HATCH VARIES)
- TEMPORARY LIMITED EASEMENT
- PERMANENT LIMITED EASEMENT
- R/W BOUNDARY POINT
- PARCEL NUMBER (RWB20)
- UTILITY PARCEL NUMBER (102)
- SIGN NUMBER (OFF PREMISE) (92)
- BUILDING (21)
- PROPOSED R/W LINE
- EXISTING H.E. LINE
- PROPERTY LINE
- LOT & TIE LINES
- SLOPE INTERCEPTS
- CORPORATE LIMITS
- ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
- ACCESS RESTRICTED (BY ACQUISTION)
- NO ACCESS (BY STATUTORY AUTHORITY)
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- EXISTING CENTERLINE
- PROPOSED REFERENCE LINE
- PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

THIS IS A COPY, ORIGINAL COPY IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/4/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6/4/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.23
AMENDMENT NO:

3926526
REGISTER OF DEEDS WAUKESHA COUNTY, WI
RECORDED ON
June 18, 2012 12:14 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 130-130

FILE NAME : j:\projects\d2_r_13301883\040423_RP.dgn PLOT DATE : 18-JUN-2012 13:45 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.23

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.24

THAT PART OF LOTS 1 AND 3 OF GENESEE WOODS LOCATED IN THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE TOWN OF GENESEE, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	HIGH MEADOW	VARIES	1978
HIGH MEADOW LANE	GENESEE WOODS	66'	1978

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
99	ALLEN J. & BECKY A. AUSPRUNG	FEE	0.08		0.08		
100	JOHN C. & PEGGY A. BRAY	FEE	0.11		0.11		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

℄ STH 83
PI STA 1560+46.71
Y 163113.05
X 642578.03
PC STA 1557+44.59
PT STA 1563+46.41
DELTA 12°32'19"
D 2°05'01"
T 302.12'
L 601.82'
R 2750.00'
LCH 600.62'
LCB N 9°22'48" E

SUBCURVE CL653
R=2750.00'
L=518.64'
LCH=517.87'
LCB=N 8°30'48" E

SEC6018
Y=160609.85
X=642470.39
CONC. MON. WITH D.O.T. ALUMINUM CAP

SEC7161
Y=163325.17
X=642454.97
CONC. MON. WITH SEWRPC BRASS CAP

SEC6005
Y=163324.73
X=642516.12
CLOSING CORNER CONC. MON. WITH D.O.T. BRASS CAP

SEC7162
Y=163299.49
X=645124.78
CONC. MON. WITH SEWRPC BRASS CAP

SEC6006
Y=163299.31
X=645140.40
CLOSING CORNER CONC. MON. WITH D.O.T. BRASS CAP

SEE TPP SHEET 1330-18-20 4.23

SEE TPP SHEET 1330-18-20 4.25

2014.10'
SEC. LINE
N00°57'54"E
2715.27'
S89°35'26"E 61.18'
HIGH MEADOW CIR. 49+93.38= SEC. LINE
STH 83 1555+55.80= HIGH MEADOW CIR. 50+40.46
1556
℄ STH 83
N03°06'38"E
1558
1560
SUBCURVE CL653
PI 1560+46.71
1562
183.3'
STH 83 1562+63.08= SEC. LINE
255.53'
37.96'
S89°20'23"E 15.62'
S89°26'56"E 2669.93'
TOWN OF DELAFIELD
TOWN OF GENESEE
TOWNSHIP LINE
LOT 4
LOT 3
LOT 1
GENESEE WOODS
NW1/4-NW1/4
GENESEE
TOWN OF
NO ACCESS PER GENESEE WOODS
CLOSING CORNER CONC. MON. WITH D.O.T. BRASS CAP
MATCH LINE=℄ HIGH MEADOW LANE SEE TPP SHEET 1330-18-20 4.22
PC 51+38.37
PRW740
51+42.78
33'
PT 52+29.88
PI 51+84.65
S89°02'07"E
S09°33'24"W 33.33'
33'
152'
145' TO SEC. LINE
PC 1557+44.59
T
FO
S06°11'30"W 110.00'
206.58'
160'
99
43'
I557+02.43 107.50'
PRW741
S08°10'28"W
173.58'
100
I559+14.82 94.68'
PRW707
N08°06'10"E
I560+94.58 56.63'
PRW745
S28°26'17"W 56.63'
I561+50.69 110.39'
PRW789
S10°10'10"E 95.00'
I562+41.43 14.02'
PRW804
2"
IP
R HIGH MEADOW LANE
PI STA 51+84.65
Y 162620.44
X 642695.56
PC STA 51+38.38
PT STA 52+29.89
DELTA 20°58'20"
D 22°55'06"
T 46.27'
L 91.51'
R 250.00'
LCH 91.00'
LCB S 78°32'56" E

260 DOC. 1094723 R. 362, I. 839 PCL. 99&100

261 DOC. 1094723 R. 362, I. 839 PCL. 99&100
DOC. 256609 V. 338, P. 500 PCL. 99&100

PROJECT LOCATION
SHEET LOCATION
T 6 N
T 7 N
R 18 E
LOCATION MAP NOT TO SCALE
Davies
Genesee
Wales
Lisbon
Merton
Oconomowoc
83
18

GN
SCALE, FEET
0 50 100

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

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 RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
FEE (HATCH VARIES)	ACCESS RESTRICTED (BY ACQUISITION)
TEMPORARY LIMITED EASEMENT	NO ACCESS (BY STATUTORY AUTHORITY)
PERMANENT LIMITED EASEMENT	SECTION LINE
R/W BOUNDARY POINT RWB20	QUARTER LINE
PARCEL NUMBER 103	SIXTEENTH LINE
UTILITY PARCEL NUMBER 92	EXISTING CENTERLINE
SIGN NUMBER (OFF PREMISE) 21	PROPOSED REFERENCE LINE
BUILDING	PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER — W —		
GAS — G —		
TELEPHONE — T —		
OVERHEAD — OH —		
TRANSMISSION LINES ELECTRIC — E —		
CABLE TELEVISION — TV —		
FIBER OPTIC — FO —		
SANITARY SEWER — SAN —		
STORM SEWER — SS —		
POWER POLE	⌀	●
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌧	⌧
ELECTRIC TOWER	⊠	

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/5/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6/5/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.24
AMENDMENT NO:

3926527
REGISTER OF DEEDS WAUKESHA COUNTY, WI
RECORDED ON
June 18, 2012 12:14 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 131-131

FILE NAME : j:\projects\d2_r_13301883\040424_RP.dgn PLOT DATE : 18-JUN-2012 13:48 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000
CONST. I.D. 1330-18-70 1330-18-20 4.24

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.25

THAT PART OF LOTS 34 AND 35 OF THE HILLS OF DELAFIELD AND PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 33, TOWNSHIP 7 NORTH, RANGE 18 EAST, IN THE TOWN OF DELAFIELD, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

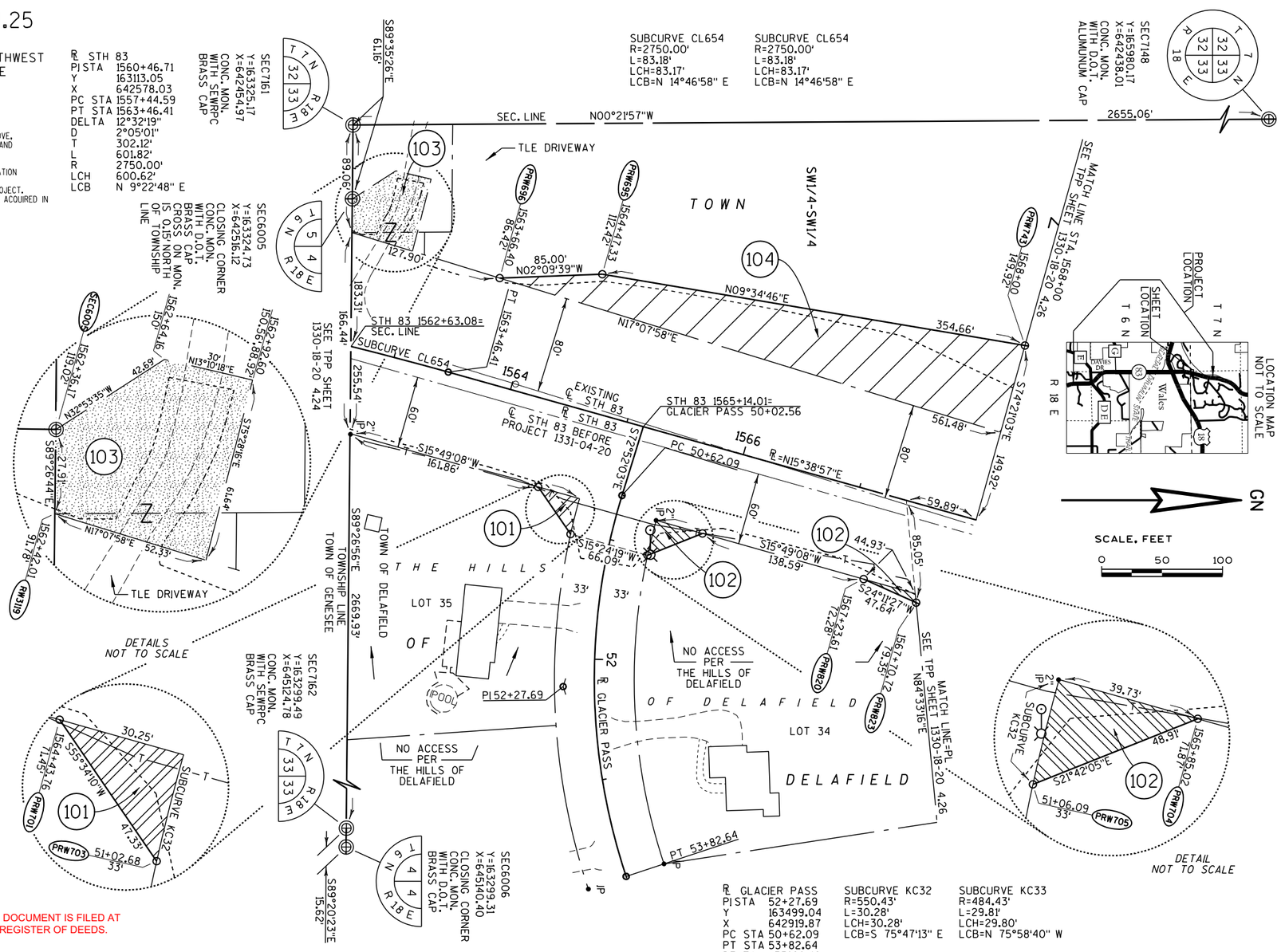
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.


R STH 83
PI STA 1560+46.71
Y 163113.05
X 642578.03
PC STA 1557+44.59
PT STA 1563+46.41
DELTA 12°32'19"
D 2°05'01"
T 302.12'
L 601.82'
R 2750.00'
LCH 600.62'
LCB N 9°22'48" E
SEC7161
Y=163325.17
X=642454.97
CONC. MON. WITH SEWRPC BRASS CAP
SEC7148
Y=165980.17
X=642438.01
CONC. MON. WITH D.O.T. ALUMINUM CAP
SEC6005
Y=163324.73
X=642516.12
CLOSING CORNER CONC. MON. WITH D.O.T. BRASS CAP IS ±15' NORTH OF TOWNSHIP LINE
SEC6006
Y=163299.31
X=645140.40
CLOSING CORNER CONC. MON. WITH D.O.T. BRASS CAP
SEC7162
Y=163299.49
X=645124.78
CONC. MON. WITH SEWRPC BRASS CAP
SUBCURVE CL654
R=2750.00'
L=83.18'
LCH=83.17'
LCB=N 14°46'58" E
SUBCURVE KC32
R=550.43'
L=30.28'
LCH=30.28'
LCB=S 75°47'13" E
SUBCURVE KC33
R=484.43'
L=29.81'
LCH=29.80'
LCB=N 75°58'40" W
R GLACIER PASS
PI STA 52+27.69
Y 163499.04
X 642919.87
PC STA 50+62.09
PT STA 53+82.64
DELTA -35°29'42"
D 11°04'23"
T 165.61'
L 320.55'
R 517.43'
LCH 315.45'
LCB N 89°23'06" E
SEC. LINE N00°21'57"W 2655.06'
S89°35'26"E 61.16'
89.06'
TLE DRIVEWAY
PRW695
PRW696
PRW697
PRW698
PRW699
PRW700
PRW701
PRW702
PRW703
PRW704
PRW705
PRW706
PRW707
PRW708
PRW709
PRW710
PRW711
PRW712
PRW713
PRW714
PRW715
PRW716
PRW717
PRW718
PRW719
PRW720
PRW721
PRW722
PRW723
PRW724
PRW725
PRW726
PRW727
PRW728
PRW729
PRW730
PRW731
PRW732
PRW733
PRW734

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.26

THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 33, TOWNSHIP 7 NORTH, RANGE 18 EAST, IN THE TOWN OF DELAFIELD, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED		OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.					
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
104	WAUKESHA COUNTY	FEE	1.42		1.42		
105	JAMES HEUTER	FEE,TLE	0.08		0.08	0.02	
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					
263	WE ENERGIES GAS	ROR					

SEC7161
Y=163325.17
X=642454.97
CONC. MON. WITH SEWRPC BRASS CAP

SEC7148
Y=165980.17
X=642438.01
CONC. MON. WITH D.O.T. ALUMINUM CAP

SEC6005
Y=163324.73
X=642516.12
CLOSING CORNER CONC. MON. WITH D.O.T. BRASS CAP CROSS ON MON. IS 0.15 NORTH OF TOWNSHIP LINE

SEC6006
Y=163299.31
X=645140.40
CONC. MON. WITH D.O.T. BRASS CAP

SEC7162
Y=163299.49
X=645124.78
CONC. MON. WITH SEWRPC BRASS CAP

SEC. LINE N00°21'57"W 1327.53' 2655.06'

S89°30'49"E

S89°35'26"E 61.16' COR. TO COR.

TOWNSHIP LINE

S89°26'56"E 2669.93'

S89°20'23"E 15.62' COR. TO COR.

TOWN OF DELAFIELD

TOWN OF GENESEE

TOWN OF DELAFIELD

SEE MATCH LINE STA. 1330-18-20 4.25

MATCH LINE=1/16 LINE SEE TPP SHEET 1330-18-20 4.27

MATCH LINE=PL SEE TPP SHEET 1330-18-20 4.25

SEE TPP SHEET 1330-18-20 4.26

2 A.P. PER PROJECT 1331-04-20 DOC. 1471764

STH 83 1576+38.23= 1/16 LINE

EXISTING ℄ STH 83

℄ STH 83 BEFORE PROJECT 1331-04-20

℄ STH 83

TLE DRIVEWAY

TLE DRIVEWAY

DETAIL NOT TO SCALE

CURVE PL42
R=986.04'
L=251.05'
LCH=250.37'
LCB=N 19°58'37" E

CURVE PL42

SW1/4-SW1/4

THE HILLS OF DELAFIELD

LOT 32

LOT 31

LOT 30

OUTLOT 1

NO ACCESS PER THE HILLS OF DELAFIELD

NO ACCESS PER THE HILLS OF DELAFIELD

DELAFIELD

TOWN

OF

104

105

1570

1572

1574

1576

FHW749 1568+00 95.34' N09°34'46"E

FHW750 1568+00 160' N74°21'03"W 149.92'

FHW751 1568+18.81 160' N15°38'57"E 160'

FHW752 1570+12.09 160' N15°38'57"E 122.28'

FHW753 1571+99.74 150' N24°58'36"E 185.10'

FHW754 1573+84.84 150' N17°07'58"E 730.76'

FHW755 1576+23 150' N15°38'57"E 403.26'

FHW821 1568+74.91 95' N15°38'57"E 59.89'

FHW822 1569+33.27 95' N15°38'57"E 118.36'

FHW823 1569+70.72 N84°33'16"E 34.02'

FHW824 1569+70.72 N24°11'27"E 39.63'

FHW825 1569+70.72 N84°33'16"E 10.00'

FHW826 1571+90.91 115' N6°52'57"W 81.38'

FHW827 1568+20.91 115' N6°52'57"W 81.38'

FHW828 1568+20.91 115' S84°33'16"W 14.45'

FHW829 1568+20.91 115' S84°33'16"W 7.44'

FHW830 1573+84.84 80' N17°07'58"E 426.83'

FHW831 1576+23 80' N18°37'51"E 93.92'

FHW832 1576+23 80' N17°07'58"E 508.28'

FHW833 1576+23 80' N17°07'58"E 561.52'

N15°38'57"E 59.89'

N15°49'08"E 85.05'

S24°11'27"W 105.35' 51.27'

S38°14'45"W 118.51'

S17°07'58"W 171.74'

S21°16'14"W 101.06'

S53°26'45"E 29.01'

S60°49'11"E

S55°26'35"E

S12°40'59"W 41.92'

N10°22'26"E 714.05'

80'

60'

95'

25'

115'

14.45'

29.01'

101.06'

80'

714.05'

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES ELECTRIC	OH	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

(260) DOC. 1074287 R. 335, I. 459 PCL. 104

(261) DOC. 214369 V. 268, P. 536 PCL. 104

(263) DOC. 828299 R. 16, I. 111 PCL. 104

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	THE HILLS OF DELAFIELD	60'	1974
STH 83	PROJECT 1331-04-20	VARIES	1987

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR	FOUND IRON PIPE/PIN	
ACCESS RIGHTS	AR	REMAINING	REM.		
ACRES	AC.	RIGHT-OF-WAY	R/W	R/W MONUMENT	
AND OTHERS	ET.AL.	SECTION	SEC.	R/W STANDARD	
CENTERLINE	C/L	STATION	STA.	SIGN	
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT VOLUME	TLE V.	SECTION CORNER MONUMENT	
CORNER	COR.			SECTION CORNER SYMBOL	
DOCUMENT	DOC.			FEE (HATCH VARIES)	
EASEMENT	EASE.	CURVE DATA		TEMPORARY LIMITED EASEMENT	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH	PERMANENT LIMITED EASEMENT	
LAND CONTRACT	LC	LONG CHORD BEARING	LCB	R/W BOUNDARY POINT	
MONUMENT	MON.	RADIUS	R	PARCEL NUMBER	
PAGE	P.	DEGREE OF CURVE	D	UTILITY PARCEL NUMBER	
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA	SIGN NUMBER (OFF PREMISE)	
PROPERTY LINE	PL	LENGTH OF CURVE	L	BUILDING	
RECORDED AS	(100')	TANGENT	TAN		
REFERENCE LINE	℄				

CONVENTIONAL SYMBOLS

LF (1" UNLESS NOTED)	PROPOSED R/W LINE
●(SET)	EXISTING H.E. LINE
▲(SET)	PROPERTY LINE
	LOT & TIE LINES
ISIGN	SLOPE INTERCEPTS
	CORPORATE LIMITS
	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
	ACCESS RESTRICTED (BY ACQUISITION)
	NO ACCESS (BY STATUTORY AUTHORITY)
	SECTION LINE
	QUARTER LINE
RWB20	SIXTEENTH LINE
02	EXISTING CENTERLINE
92	PROPOSED REFERENCE LINE
21-1	PARALLEL OFFSET

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.
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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.

SHEET LOCATION

T 7 N
T 6 N
R 18 E

LOCATION MAP NOT TO SCALE

SCALE, FEET
0 50 100

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/5/12 — Robert L. Dufffeck
Name ROBERT L. DUFFECK
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6/5/12 — Walter C. Zendek
Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.26
AMENDMENT NO:

3925088
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
June 12, 2012 09:45 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 125-125

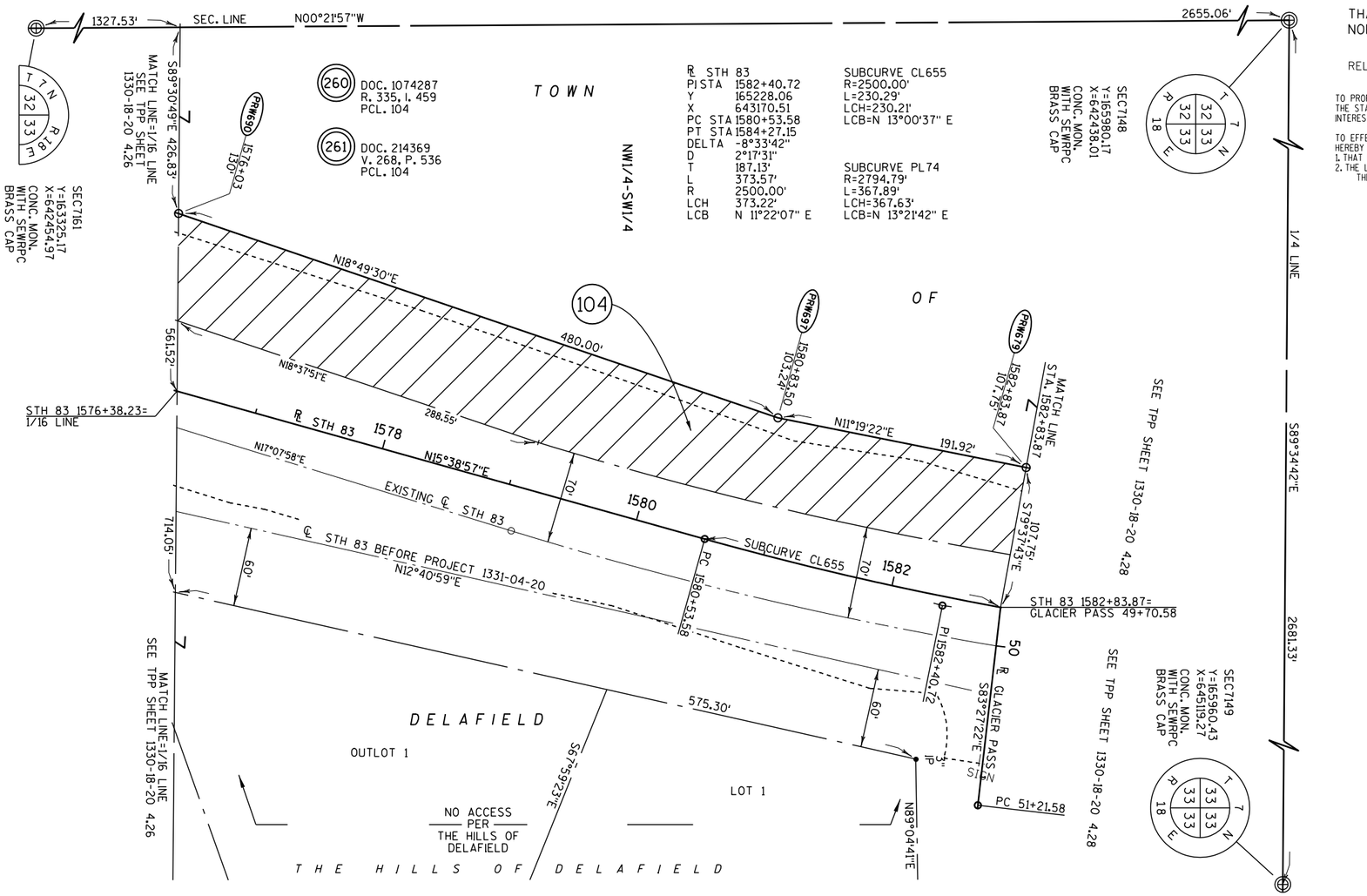
TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.27

THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 33, TOWNSHIP 7 NORTH, RANGE 18 EAST, IN THE TOWN OF DELAFIELD, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	THE HILLS OF DELAFIELD	60'	1974
STH 83	PROJECT 1331-04-20	VARIES	1987
GLACIER PASS	THE HILLS OF DELAFIELD	VARIES	1974

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
104	WAUKESHA COUNTY	FEE	1.11		1.11		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

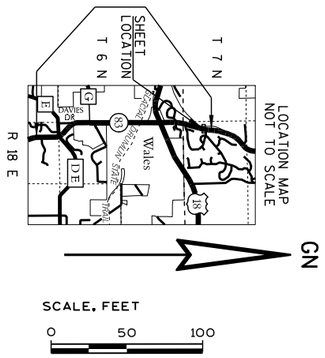
LONG CHORD	LCH		
LONG CHORD BEARING	LCB		
RADIUS	R		
DEGREE OF CURVE	D		
CENTRAL ANGLE OR DELTA	DELTA		
LENGTH OF CURVE	L		
TANGENT	TAN		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	LP (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 RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	RWB20	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES ELECTRIC	OH	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		



TIHS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/6/12
Name ROBERT L. DUFFECK
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6/6/12
Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.27
AMENDMENT NO:

3925089
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
June 12, 2012 09:45 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 126-126

FILE NAME : J:\projects\d2_r_13301883\040427_RP.dgn PLOT DATE : 13-JUN-2012 08:58 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.27

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.28

THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 33, TOWNSHIP 7 NORTH, RANGE 18 EAST, IN THE TOWN OF DELAFIELD, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

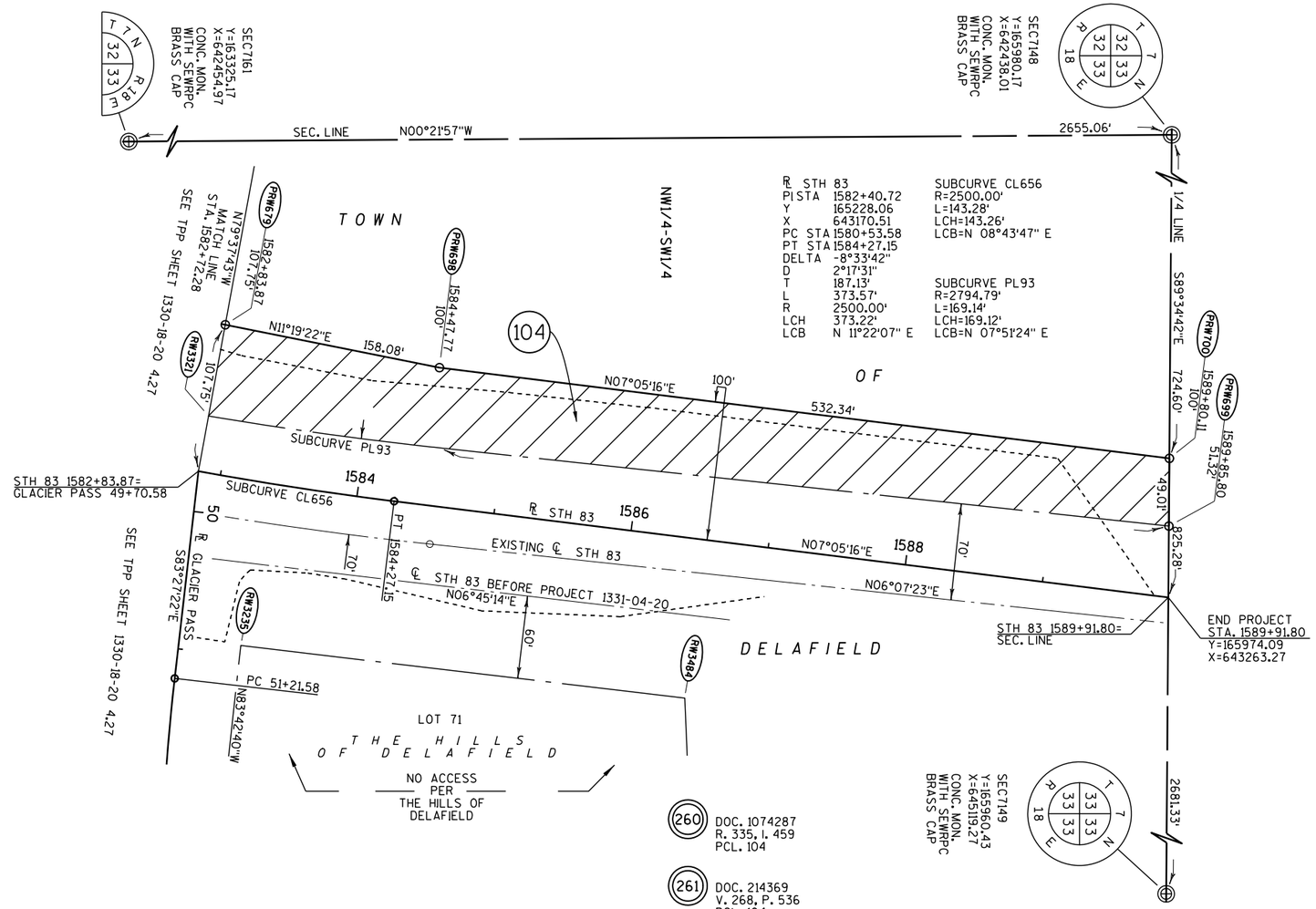
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
STH 83	THE HILLS OF DELAFIELD	60'	1974
STH 83	PROJECT 1331-04-20	VARIES	1987
GLACIER PASS	THE HILLS OF DELAFIELD	VARIES	1974

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
104	WAUKESHA COUNTY	FEE	0.89		0.89		
260	CENTURYLINK	ROR					
261	WE ENERGIES ELECTRIC	ROR					



CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

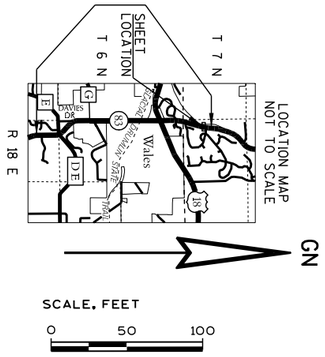
CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT ●(SET)
R/W STANDARD ▲(SET)
SIGN ISIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY PARCEL NUMBER
SIGN NUMBER (OFF PREMISE)
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

	NON COMPENSABLE	COMPENSABLE
WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES ELECTRIC	OH	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		



THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 6/6/12 — Name ROBERT L. DUFFECK, Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 6/6/12 — Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.28
AMENDMENT NO:

3925090
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
June 12, 2012 09:45 AM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $0.00
Book 1 Page 127-127

FILE NAME : J:\projects\d2_r_13301883\040428_RP.dgn PLOT DATE : 13-JUN-2012 08:30 PLOT BY : dotwxz PLOT NAME : PLOT SCALE : 50.000000:1.000000

CONST. I.D. 1330-18-70 1330-18-20 4.28

TRANSPORTATION PROJECT PLAT NO: 1330-18-20 - 4.29

THAT PART OF PARCEL 1 OF CSM 2274 AND ALSO PART OF THE NORTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 4, TOWNSHIP 6 NORTH, RANGE 18 EAST, IN THE VILLAGE OF WALES, WAUKESHA COUNTY, WISCONSIN.

RELOCATION ORDER STH 83 WAUKESHA COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

HWY	BASIS OF EXISTING R/W	WIDTH	YEAR
USH 18	PROJECT 2212-01-21	50'	1975
USH 18	CSM 2274	60'	1975
OAKCREST DRIVE	CSM 3862	66'	1980
EAST SUMMIT AVENUE (ALLENS ALLEY)	CSM 8715	50'	1999

SCHEDULE OF LANDS & INTERESTS REQUIRED — OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTEREST TO THE DEPARTMENT.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	T.L.E. TEMP. ACRES	P.L.E. PERM. ACRES
107	INFINITE INVESTMENTS, LLP.	FEE,AR	0.14		0.14		
108	DALE & LAURA SWENSON	FEE	0.20		0.20		
260	CENTURYLINK	ROR					

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE WAUKESHA COUNTY REGISTER OF DEEDS.

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, WAUKESHA COUNTY ZONE, NAD83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

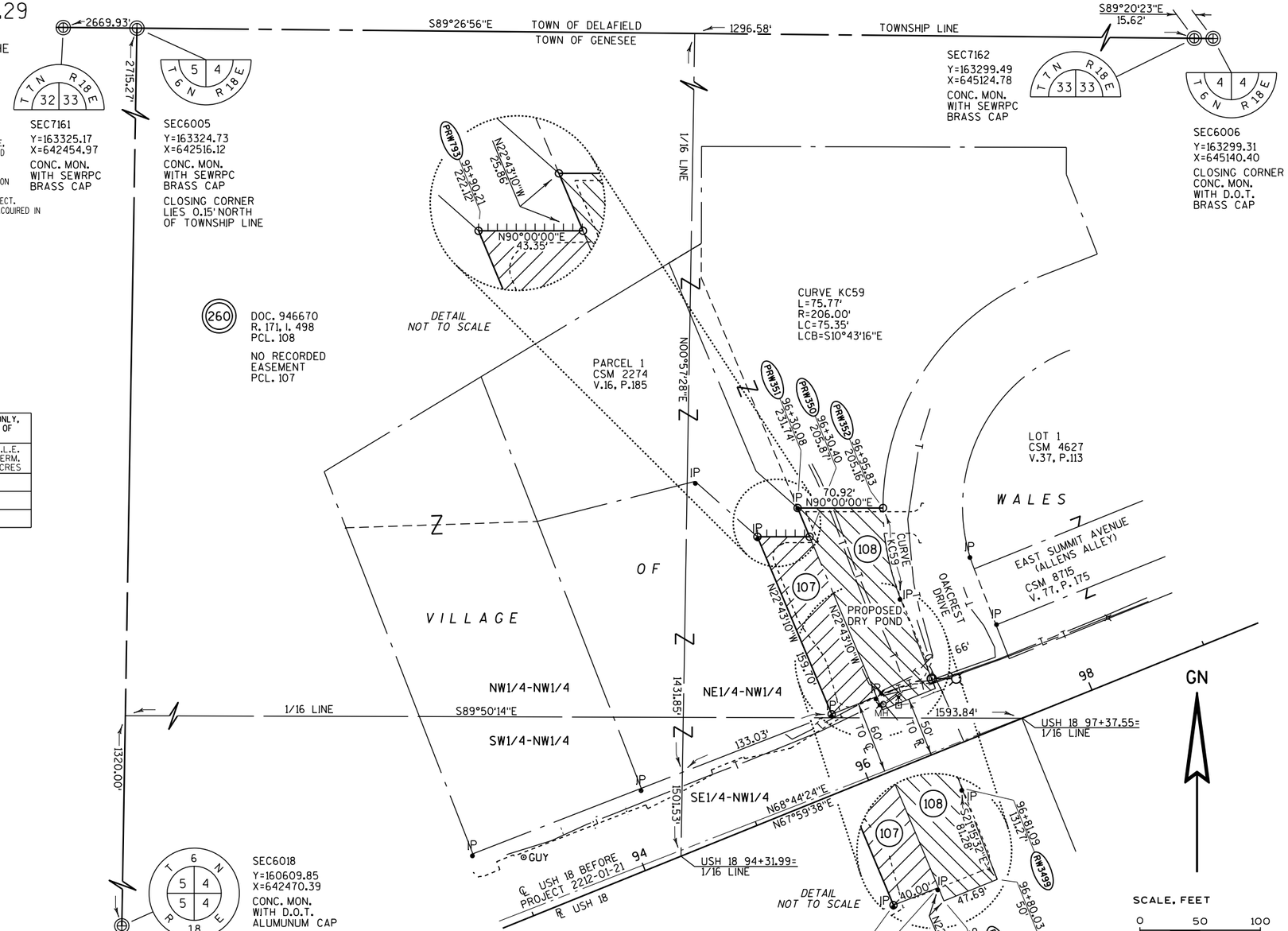
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY D.O.T. SOUTHEAST REGION SURVEY.

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.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

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.



CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		
REFERENCE LINE	℄		

CURVE DATA

LONG CHORD	LCH		
LONG CHORD BEARING	LCB		
RADIUS	R		
DEGREE OF CURVE	D		
CENTRAL ANGLE OR DELTA	DELTA		
LENGTH OF CURVE	L		
TANGENT	TAN		

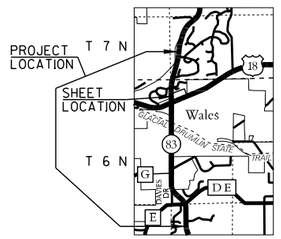
CONVENTIONAL SYMBOLS

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 !SIGN	SLOPE INTERCEPTS
SECTION CORNER MONUMENT	CORPORATE LIMITS
SECTION CORNER SYMBOL	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
	ACCESS RESTRICTED (BY ACQUISITION)
FEE (HATCH VARIES)	NO ACCESS (BY STATUTORY AUTHORITY)
TEMPORARY LIMITED EASEMENT	SECTION LINE
PERMANENT LIMITED EASEMENT	QUARTER LINE
R/W BOUNDARY POINT RWB20	SIXTEENTH LINE
PARCEL NUMBER 102	EXISTING CENTERLINE
UTILITY PARCEL NUMBER 92	PROPOSED REFERENCE LINE
SIGN NUMBER (OFF PREMISE) 21-1	PARALLEL OFFSET
BUILDING	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD	OH	
TRANSMISSION LINES ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

LOCATION MAP
NOT TO SCALE



I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES, THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: 5/29/12
Name ROBERT L. DUFFECK
Title REAL ESTATE SUPERVISOR

THIS PLAT WAS PREPARED BY OR UNDER THE DIRECTION OF:

DATE: 5/29/12
Name WALTER C. ZENDEK

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1330-18-20 4.29
AMENDMENT NO:

3923832
REGISTER OF DEEDS
WAUKESHA COUNTY, WI
RECORDED ON
June 06, 2012 01:41 PM
James R Behrend
Register of Deeds
1 PG
TOTAL FEE: $25.00
TRANS FEE: $9.00
Book 1 Page 124-124

N

604 606 608 610 SHT 83 612 STH 83 S-R 614 STH 83 616 618

PI 47+82.07

POOL

RICHARD G. DOERFLER

PT 49+38.12

RUINS

RUINS

BEGIN CONSTRUCTION
STA. 615+00, 12' RT

CAUTION

BEGIN PROJECT
STA. 619+40 S-R
N = 149583.17
E = 644010.89

R/W PI 50+00.00

MICHAEL E. &
CRYSTAL
HAGIE

5

5

995 990 985 980 975 970 965

FINISHED PROFILE ON S-R PGL

EXISTING GROUND ON S-R PGL

+0.73 %

POT STA 619+00.00

VPOT EL 973.69

VPI STA 620+00.00

PROPOSED ELEVATIONS ON S-R PGL

EXISTING ELEVATIONS ON S-R PGL

973.47 973.69 973.69 974.03 974.06 974.42 974.42

615 615+50 616 616+50 617 617+50 618 618+50 619 619+50 620

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 511	E

FILE NAME : J:\projects\d2_13301883\050100_PP.dgn PLOT DATE : 30-JUL-2013 17:36 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40

DORIS M. REES

JEFFERY M. & SANDRA J. PENNINGTON

BRUCE FLEISCHMANN

THOMAS M. & MARLA K. GEIGER

CAUTION

PT 49+38.12

R/W

SI

620 622 624 626 628 630 632 634

S-R STH 83

SHT 83

REMOVE DRIVEWAY

TLE

PI 633+60.87

PI 50+28.61

PC 630+31.82

62056

MICHAEL E. & CRYSTAL HAGIE

JOYCE J. DOUGLAS

RODGER L. & JUDITH R. SANKEY

JOSEPH & LONDA HAASE

RONALD D. & KATHLEEN M. MORAN

DAVID F. & BERNADETTE RONDINELLI

LONDON DR.

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
62056	620+56	BERNTSEN FENO MON WITH MAG	973.07
		NAIL IN TOP	
		190' N OF INT OF PERKINS RD & STH 83	
		43' EAST OF E.O.P. OF STH 83	

995 990 985 980 975 970 965

VPI STA 620+00.00
VPI EL 974.42

+0.76 %

VPC STA 624+75.00
VPC EL 978.03

VPI STA 625+50.00
VPI EL 978.60

VPT STA 626+25.00
VPT EL 979.00

K = 651.61
VCL 150.00

FINISHED PROFILE ON S-R℄ PGL

EXISTING GROUND ON S-R℄ PGL

+0.53 %

STA. 627+14
1-24" CPRC REQ'D
ELEV.= 975.00

VPC STA 632+10.00
VPC EL 982.10

VCL 190.00
K = 143.37

+0.53 %

VPI STA 633+05.00
VPI EL 982.60

+1.86 %

VPT STA 634+00.00
VPT EL 984.36

VPC STA 634+25.00
VPC EL 984.83

EXISTING ELEVATIONS ON S-R℄ PGL

PROPOSED ELEVATIONS ON S-R℄ PGL

| | | |

CHARLES & ROSE MARY ESSER

JOHN T. & MARIA D. HENSCHEL

BENJAMIN & CHRISTY PERNITZKE

DEBORAH A. STEC & LAURA L. THAYER

RICK A. & TINA M. HALLADA

GREGORY J. & KRISTIK. PALET

TIMOTHY S. & MARY K. O'CONNEL

VINCENT C. & LISA M. SCHMITT

DAVID F. & BERNADETTE RONDINELLI

DENNIS J. & CORRINE A. ZYWICKI

GENESEE DEVELOPMENT INC.

FRED S. & CHRISTINE E. VITALE

S.T.H. 83

S-R STH 83

HARVEST VIEW DR.

LOW AREA WATER

TLE

CAUTION

REMOVE DRIVEWAY

EXISTING CMP TO REMAIN

PT 636+84.09

PI 50+00.00

PI 646+11.10

MATCHLINE STA. 646+00 S-R

PC 51+89.11

64440

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
64440	644+40	BERNTSEN FENO MON WITH	983.95
		MAG NAIL IN TOP	
		± 120' EAST FROM ℄ OF STH 83	
		39' N. FROM ℄ OF HARVEST VIEW LN	

VPI STA 636+50.00
VPI EL 989.00

VPT STA 638+75.00
VPT EL 987.58

VCL 400.00
K = 222.99

642+65.40
985.57

FINISHED PROFILE ON S-℄ PGL

-0.63 %

+1.1

EXISTING GROUND ON S-℄ PGL

637+60.97
987.94

K = 181.11
VCL 450.00

VPC STA 641+25.00
VPC EL 986.01

STA. 642+81
1-19"X30" CPRCHE
CLASS HE-III REQ'D
ELEV.= 981.50

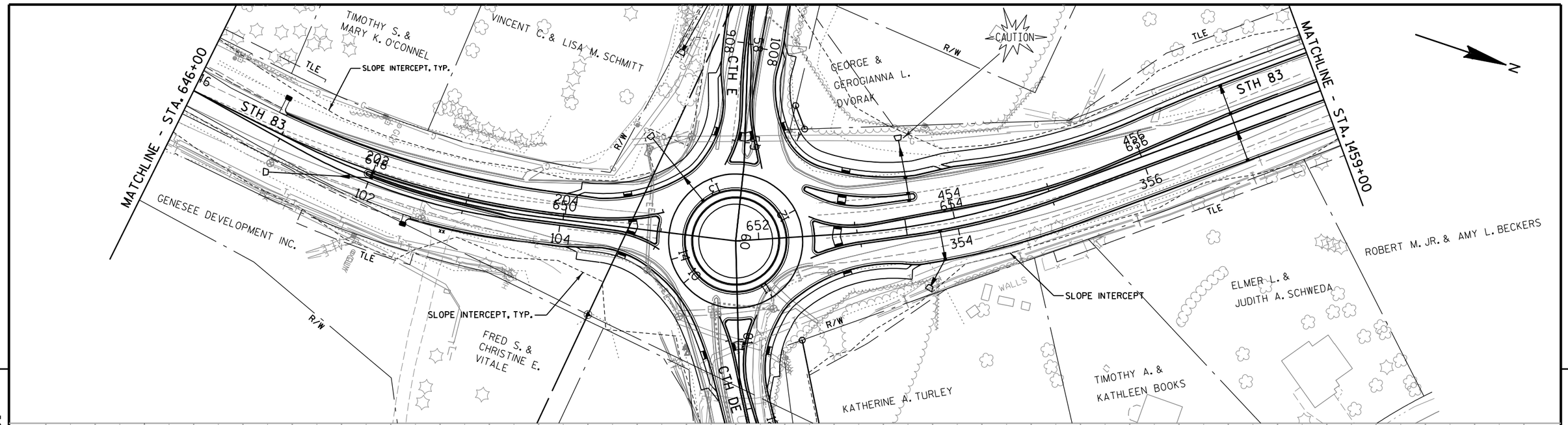
VPI STA 643+25.00
VPI EL 984.75

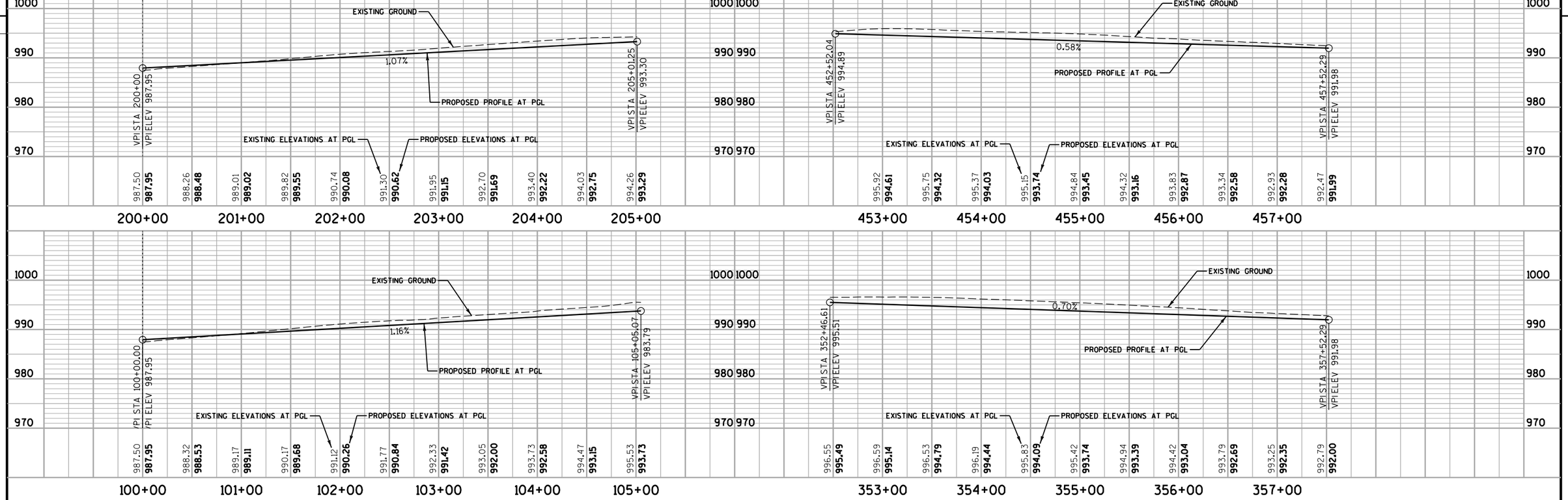
VPT STA 645+25.00
VPT EL 987.08

EXISTING ELEVATIONS ON S-℄ PGL

PROPOSED ELEVATIONS ON S-℄ PGL

| | | |

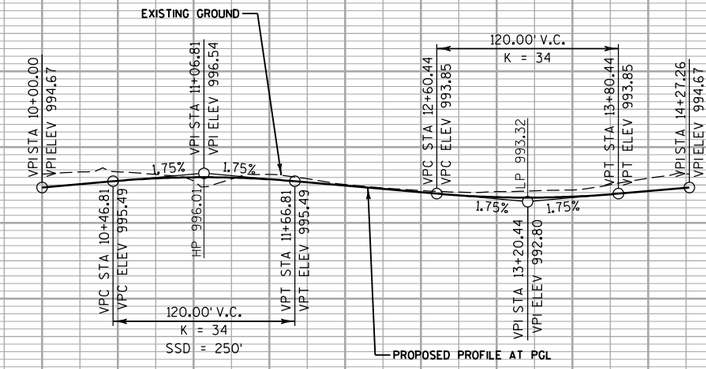




PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 514	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_050103_pp.dgn
PLOT DATE : 4/30/2013 4:09:23 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 100.0000 FT / IN.
WISDOT/CADDS SHEET 46

E /DE ROUNDABOUT CIRCLE



5 5

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 515	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_050103a_pp.dgn PLOT DATE : 4/30/2013 2:04:36 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 100.0000 FT / IN.

WISDOT/CADDS SHEET 40

ROBERT M. & TONYA R. MERKT

GEORGE & GEROGIANNA L. DVORAK

EUGENE S. & CINDY L. FRECHETTE

JEFFREY A. LAFRATTA

LAKELAND PROPERTY MANAGEMENT

PROPOSED DETENTION POND

PROPOSED SHALLOW DETENTION POND

CAUTION

R/W

TLE

N STH 83

PC 1465+93.50

PI 1469+78.73

PI 46+01.64
PC 46+01.64

PT 48+49.9

REMOVE DRIVEWAY

BONNIE L. HEIN

VILLAGE OF WALES

PORTHAMEL CT.

PI 1458+56.27

MATCHLINE STA. 1459+00

146002

KELLEY J. & RENEE S. REED

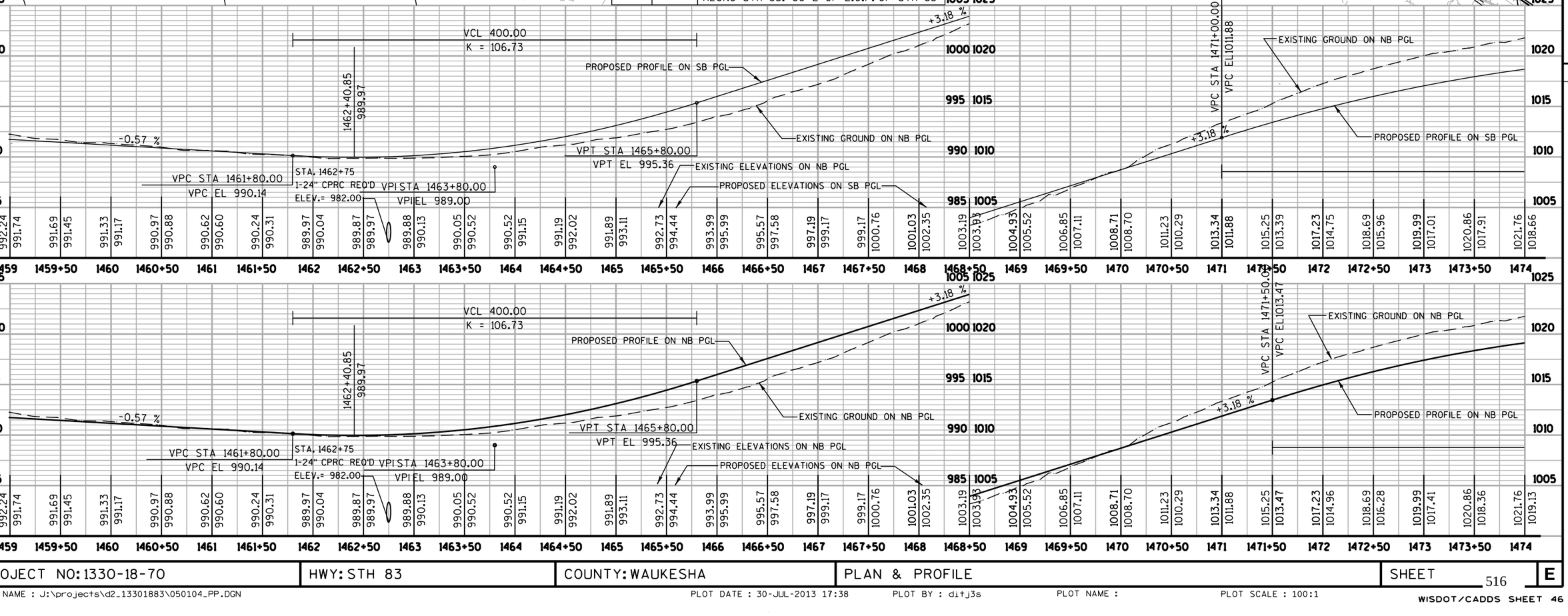
DAVID P. & DAWN PECK

ROBERT M. JR. & AMY L. BECKERS

PI 1473+23.98

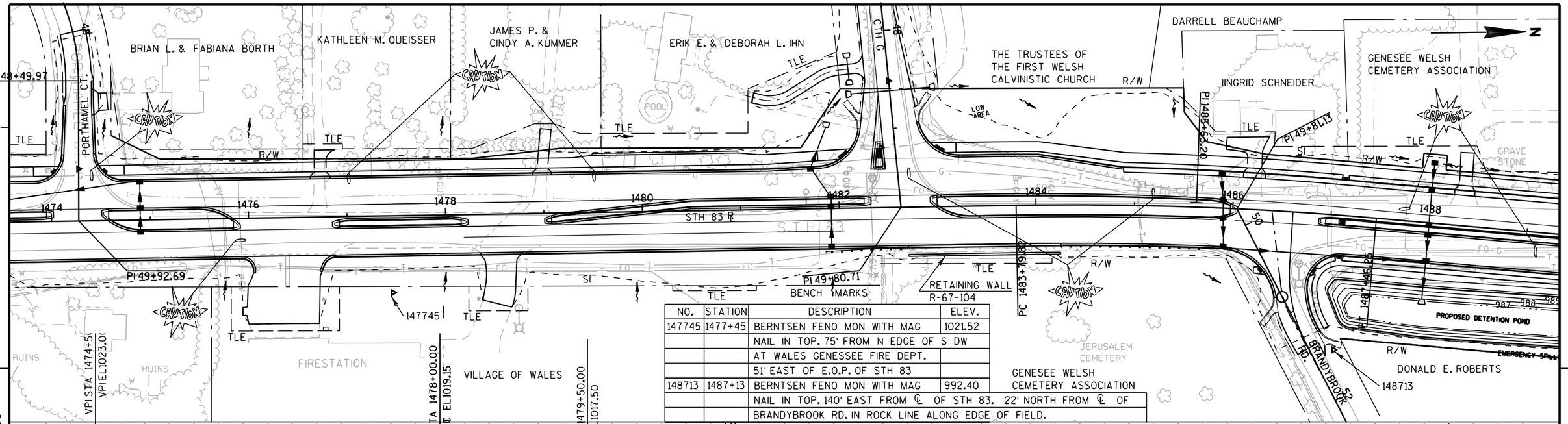
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
146002	1460+02	BERNTSEN FENO MON WITH	989.14
		MAG NAIL IN TOP	
		± 70' N FROM DW S30 W31865	
		ALONG STH 83. 60' E OF E.O.P. OF STH 83	



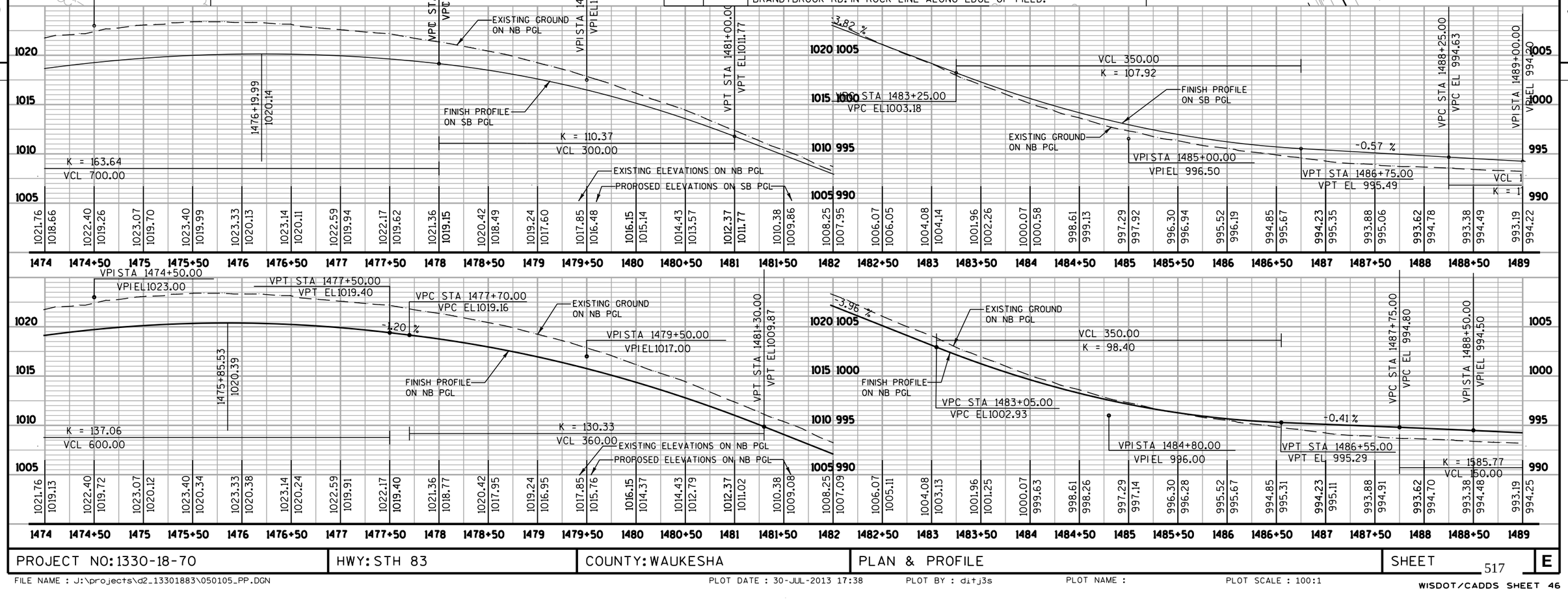
PROJECT NO: 1330-18-70 | HWY: STH 83 | COUNTY: WAUKESHA | PLAN & PROFILE | SHEET E

FILE NAME : J:\projects\d2_13301883\050104_PP.DGN PLOT DATE : 30-JUL-2013 17:38 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1
WISDOT/CADDS SHEET 46



NO.	STATION	DESCRIPTION	ELEV.
147745	1477+45	BERNTSEN FENO MON WITH MAG	1021.52
		NAIL IN TOP. 75' FROM N EDGE OF S DW	
		AT WALES GENESSEE FIRE DEPT.	
		51' EAST OF E.O.P. OF STH 83	
148713	1487+13	BERNTSEN FENO MON WITH MAG	992.40
		NAIL IN TOP. 140' EAST FROM ℄ OF STH 83. 22' NORTH FROM ℄ OF	
		BRANDYBROOK RD. IN ROCK LINE ALONG EDGE OF FIELD.	

BENCH MARKS



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 517 E

FILE NAME : J:\projects\d2_13301883\050105_PP.DGN PLOT DATE : 30-JUL-2013 17:38 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 46

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
150057	1500+57	BERNTSEN FENO MON WITH MAG	993.62
		NAIL IN TOP. 120' EAST FROM ℄	
		OF STH 83. 43' NORTH FROM ℄	
		OF WELSH DR.	

GENESEE WELSH CEMETERY ASSOCIATION

SALEM CEMETERY

GRAVE STONE

CAUTION

PC 1490+58.04

TLE

SI

1490

1492

1494

STH 83

R/W

PT 1496+08.20

PC 1496+89.91

1496

1498

PT 1498+04.19

TLE

SIGN

WELSH RD.

50

PI 50+33.96

1500

1502

1504

PC 50+60.16

DUANE E. & ANNETTE M. ATWATER

RETAINING WALL R-67-103

LOW AREA

987 988 989 990 990.5 992

NTION POND

EMERGENCY SPILLWAY

PROPOSED DETENTION POND

PI 1492+81.91

PI 1498+04.16

PI 50+34.46

R/W

150057

STEVEN L. & KATHRYN S. HINTZ

JEREMY J. & ERICA R. BARDON

ROBERT L. & PATRICIA J. EMMONS

JOHN L. & MARION K. VAN CASTER

RICHARD & MARION DAVIES LIVING TRUST

DONALD E. ROBERTS

WELSH RD.

52

VCL 170.00
K = 165.30

VCL 150.00
K = 138.77

5

5

VPI STA 1489+00.00
VPI EL 994.20

VPT STA 1489+75.00
VPT EL 993.83

-0.49 %

50.00
764.71

FINISH PROFILE ON SB PGL

+0.54 %

VPC STA 1496+35.00
VPC EL 993.02

VPI STA 1497+25.00
VPI EL 993.50

VPT STA 1498+15.00
VPT EL 993.04

-0.51 %

1498+96.37
992.80

+0.57 %

VPT STA 1499+75.00
VPT EL 993.03

VPI STA 1499+00.00
VPI EL 992.60

VPC STA 1498+25.00
VPC EL 992.99

K = 170.98
VCL 180.00

VPC STA 1493+15.00
VPC EL 992.17

VPI STA 1494+00.00
VPI EL 991.75

VPT STA 1494+85.00
VPT EL 992.21

1493+95.99
991.97

1497+27.01
993.26

VPC STA 1502+65.00
VPC EL 994.67

EXISTING GROUND ON NB PGL

EXISTING ELEVATIONS ON NB PGL

PROPOSED ELEVATIONS ON SB PGL

VCL 147.83
K = 147.83

VPT STA 1498+30.00
VPT EL 992.99

995
990
985
980

993.19 994.22 | 993.07 993.96 | 993.09 993.71 | 993.22 993.47 | 993.45 993.22 | 993.79 992.98 | 993.83 992.73 | 993.42 992.49 | 992.15 992.24 | 991.51 992.03 | 990.89 991.97 | 989.97 992.06 | 989.80 992.29 | 989.85 992.56 | 991.93 992.83 | 990.94 993.09 | 990.70 993.24 | 990.49 993.25 | 990.32 993.11 | 990.06 992.88 | 989.90 992.80 | 990.34 992.91 | 992.28 993.17 | 992.72 993.45 | 991.34 993.73 | 991.59 994.02 | 991.95 994.30 | 992.51 994.58 | 992.95 994.92 | 993.80 995.49 | 994.93 996.30

1489 | 1489+50 | 1490 | 1490+50 | 1491 | 1491+50 | 1492 | 1492+50 | 1493 | 1493+50 | 1494 | 1494+50 | 1495 | 1495+50 | 1496 | 1496+50 | 1497 | 1497+50 | 1498 | 1498+50 | 1499 | 1499+50 | 1500 | 1500+50 | 1501 | 1501+50 | 1502 | 1502+50 | 1503 | 1503+50 | 1504

VPT STA 1489+25.00
VPT EL 994.12

-0.50 %

1493+98.91
991.94

VPI STA 1497+40.00
VPI EL 993.50

VPC STA 1496+50.00
VPC EL 993.04

FINISH PROFILE ON NB PGL

+0.51 %

1498+99.74
992.80

+0.57 %

VPT STA 1499+70.00
VPT EL 993.00

VPI STA 1499+00.00
VPI EL 992.60

VPC STA 1498+30.00
VPC EL 992.99

K = 167.10
VCL 180.00

VPC STA 1493+25.00
VPC EL 992.12

VPI STA 1494+00.00
VPI EL 991.75

VPT STA 1494+75.00
VPT EL 992.14

1497+36.01
993.26

VPC STA 1502+65.00
VPC EL 994.67

EXISTING GROUND ON NB PGL

EXISTING ELEVATIONS ON NB PGL

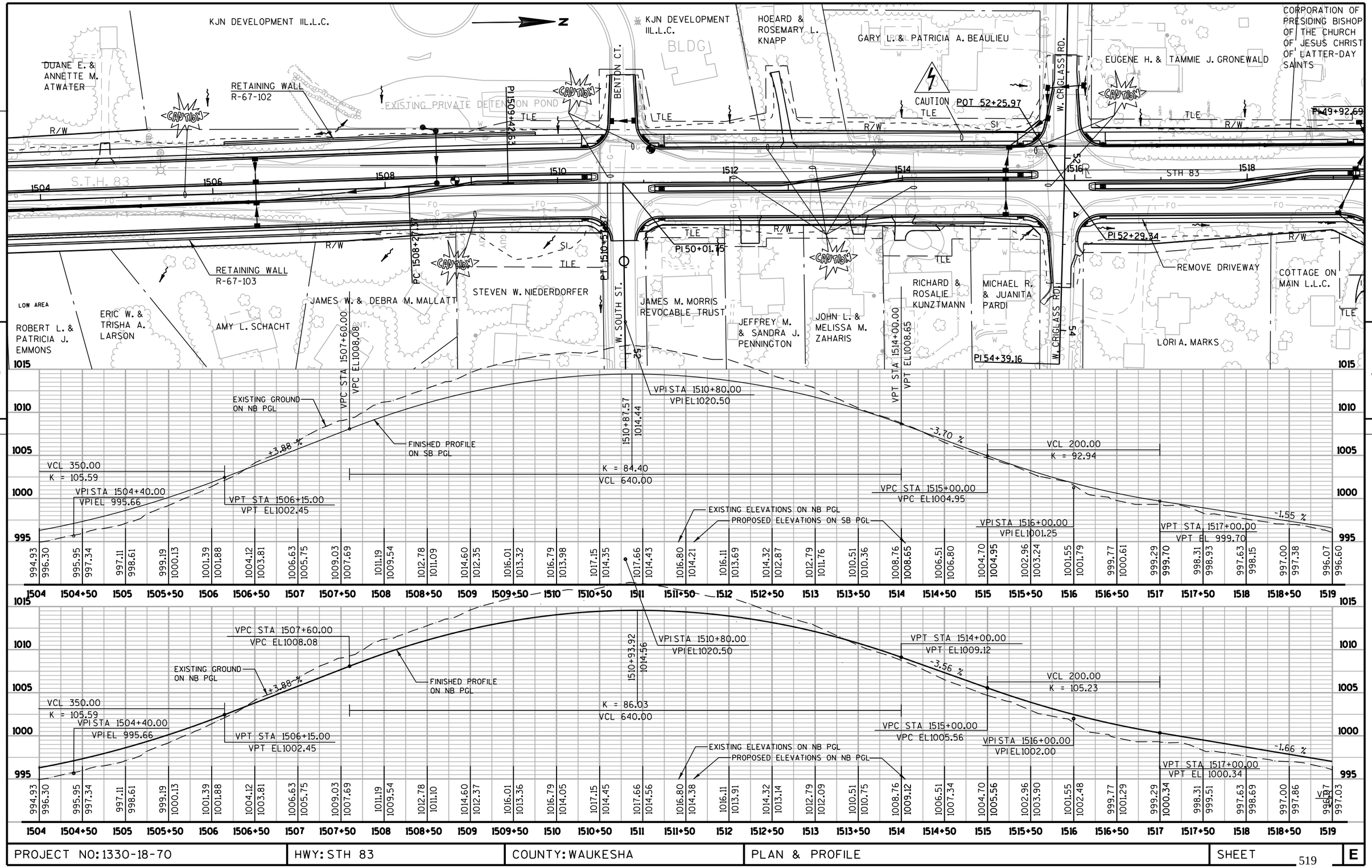
PROPOSED ELEVATIONS ON NB PGL

995
990
985
980

993.19 994.25 | 993.07 994.00 | 993.09 993.75 | 993.22 993.50 | 993.45 993.25 | 993.79 993.00 | 993.83 992.75 | 993.42 992.50 | 992.15 992.25 | 991.51 992.02 | 990.89 991.94 | 989.97 992.03 | 989.80 992.26 | 989.85 992.52 | 991.93 992.78 | 990.94 993.04 | 990.70 993.22 | 990.49 993.25 | 990.32 993.14 | 990.06 992.90 | 989.90 992.80 | 990.34 992.90 | 992.28 993.17 | 992.72 993.45 | 991.34 993.73 | 991.59 994.02 | 991.95 994.30 | 992.51 994.58 | 992.95 994.92 | 993.80 995.49 | 994.93 996.30

1489 | 1489+50 | 1490 | 1490+50 | 1491 | 1491+50 | 1492 | 1492+50 | 1493 | 1493+50 | 1494 | 1494+50 | 1495 | 1495+50 | 1496 | 1496+50 | 1497 | 1497+50 | 1498 | 1498+50 | 1499 | 1499+50 | 1500 | 1500+50 | 1501 | 1501+50 | 1502 | 1502+50 | 1503 | 1503+50 | 1504

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 518	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 519	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
152028	1520+28	BERNTSEN FENO MON WITH MAG	995.43
		NAIL IN TOP. 46' NORTH FROM ℄ OF CHURCH	
		ENTRANCE OPPOSITE MAIN ST. 51' WEST OF E.O.P.	
		STH 83. 2' EAST OF B.O.C. OF CHURCH ENTRANCE.	

152028 CORPORATION OF PRESIDING BISHOP OF THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

PROPOSED DETENTION POND

ANDREW MILLS

JAQUES HOEFFLEUR

CYMRIC CORNERS L.L.C.

MC ADAMS REALTY WALES L.L.P.

CYMRIC CT.

PT 48+52.12

PI 49+92.69

PI 49+93.81

RETAINING WALL 0' - 3'

STH 83

REMOVE DRIVEWAY

COTTAGE ON MAIN L.L.C.

MAIN ST.

CTH G

HARRIS DEVELOPMENT GROUP L.L.C.

JEANNE'S TOTAL IMAGE L.L.C.

KYUNG-SOOK THUMANN

WALES LAWN & GARDEN INC.

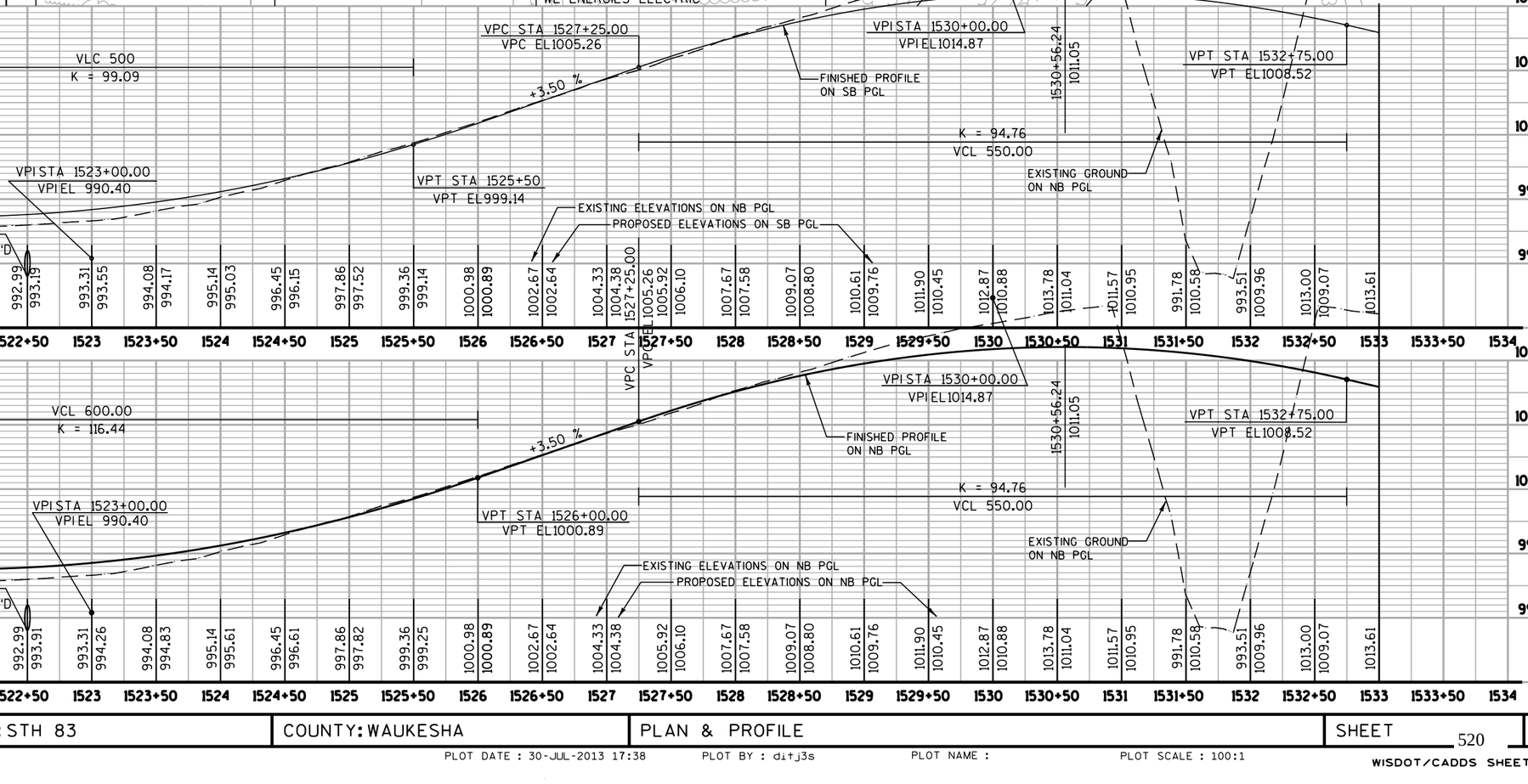
WE ENERGIES ELECTRIC

WIS. DEPT. OF NATURAL RESOURCES

MATCHLINE STA. 1531+50

PC 1533+45.58

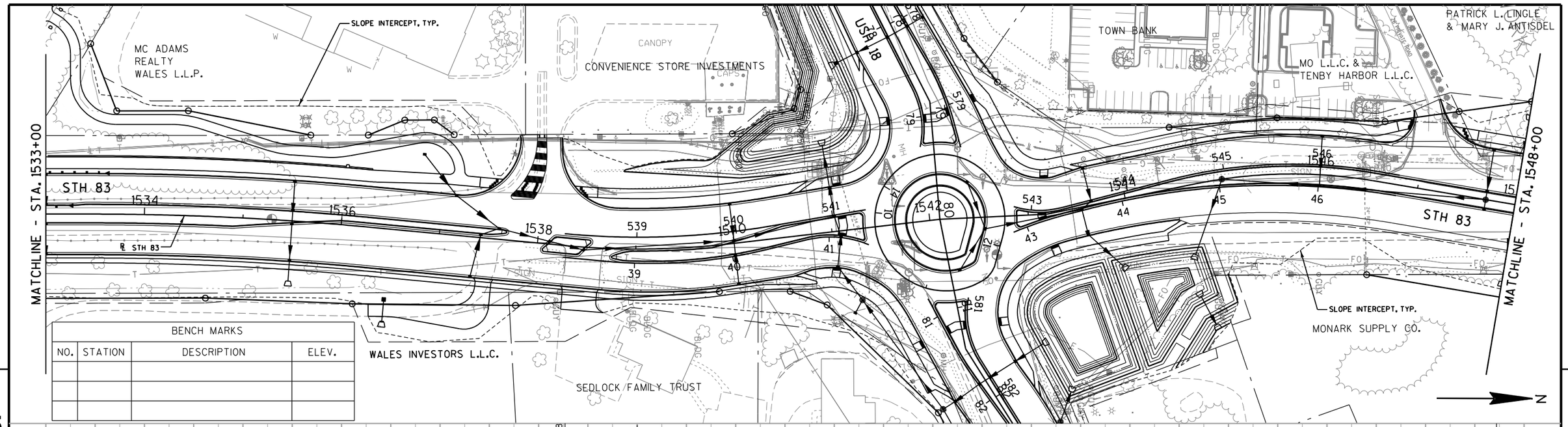
CAUTION

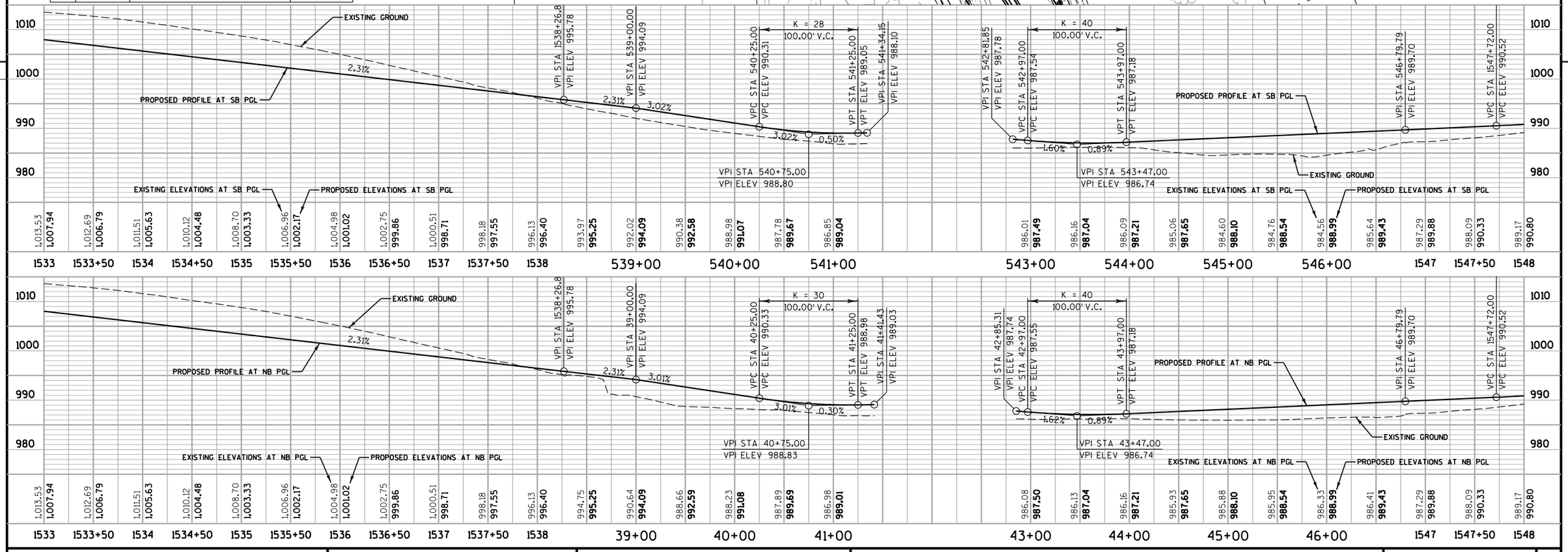


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 520 E

FILE NAME : J:\projects\d2_13301883\050108_PP.DGN PLOT DATE : 30-JUL-2013 17:38 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

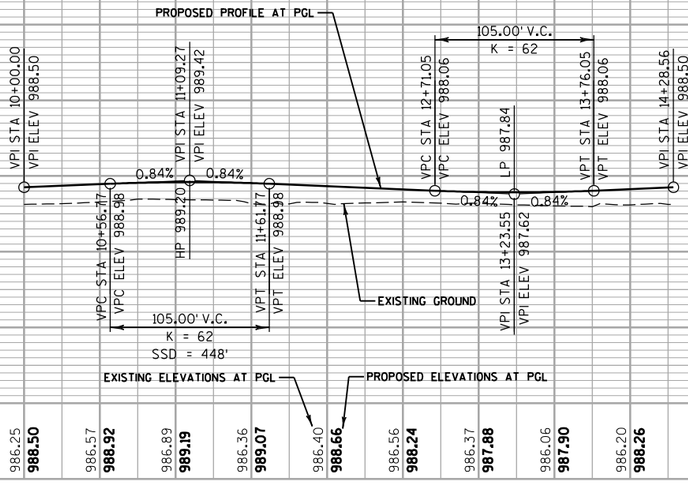
WISDOT/CADDS SHEET 46



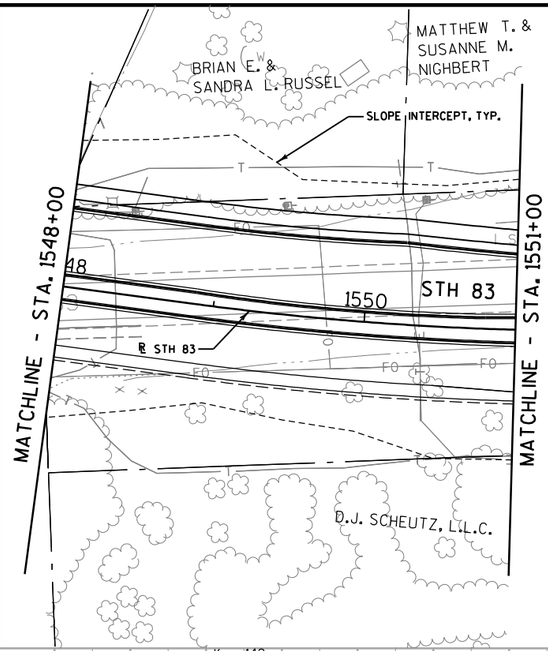


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 521	E

USH 18 ROUNDABOUT CIRCLE



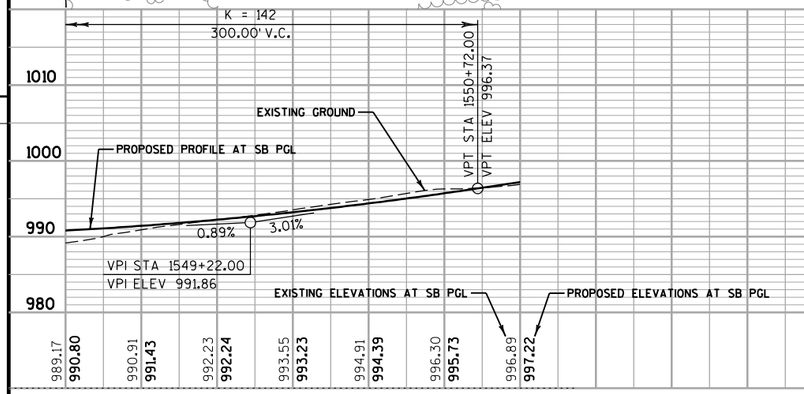
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 522	E

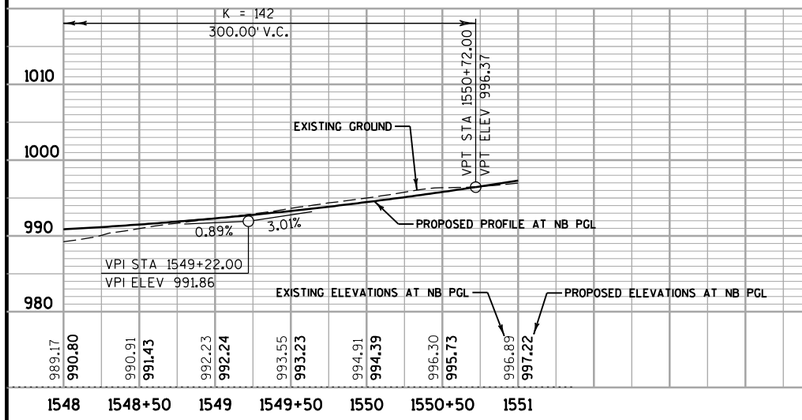


N

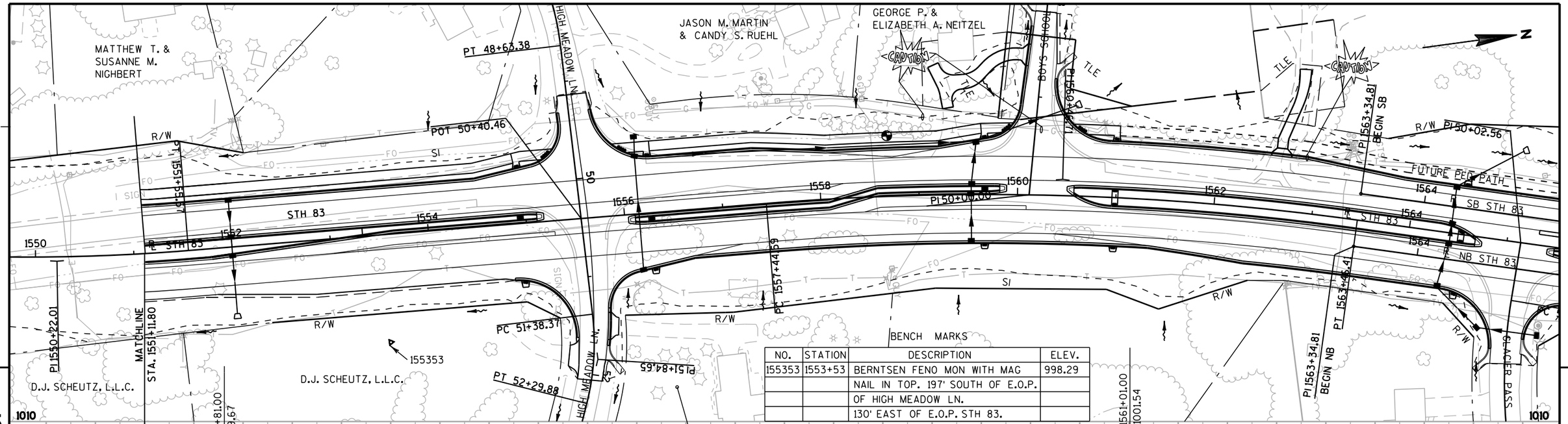
5

5

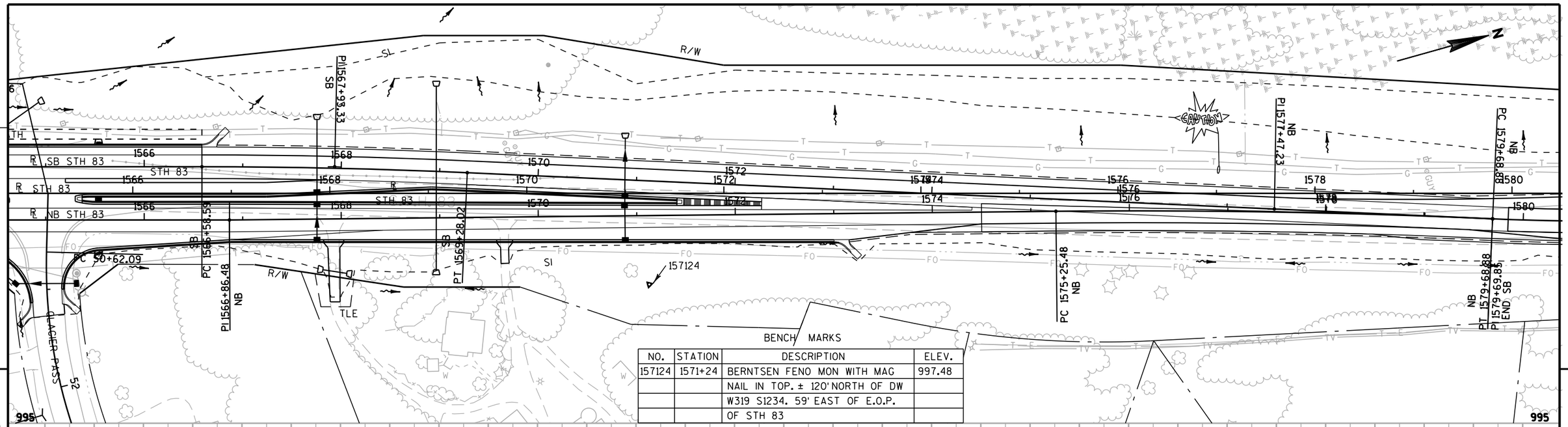




PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 523	E

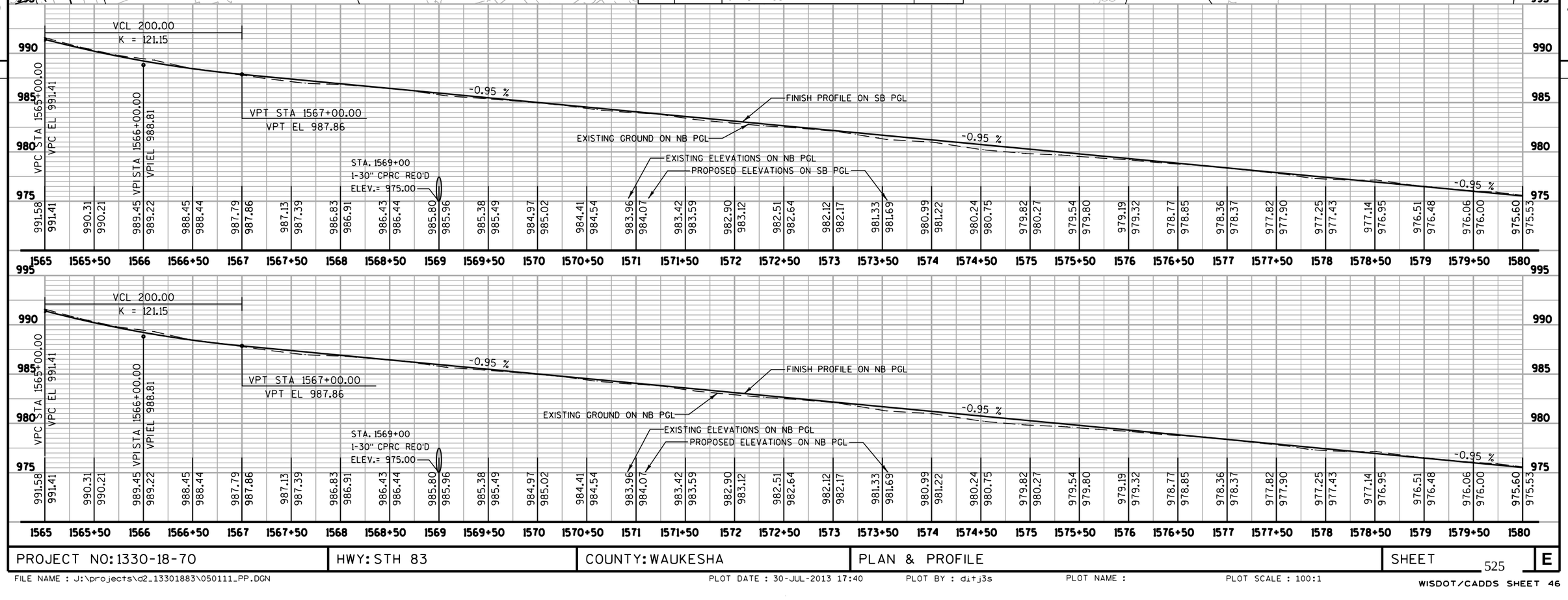


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 524 E

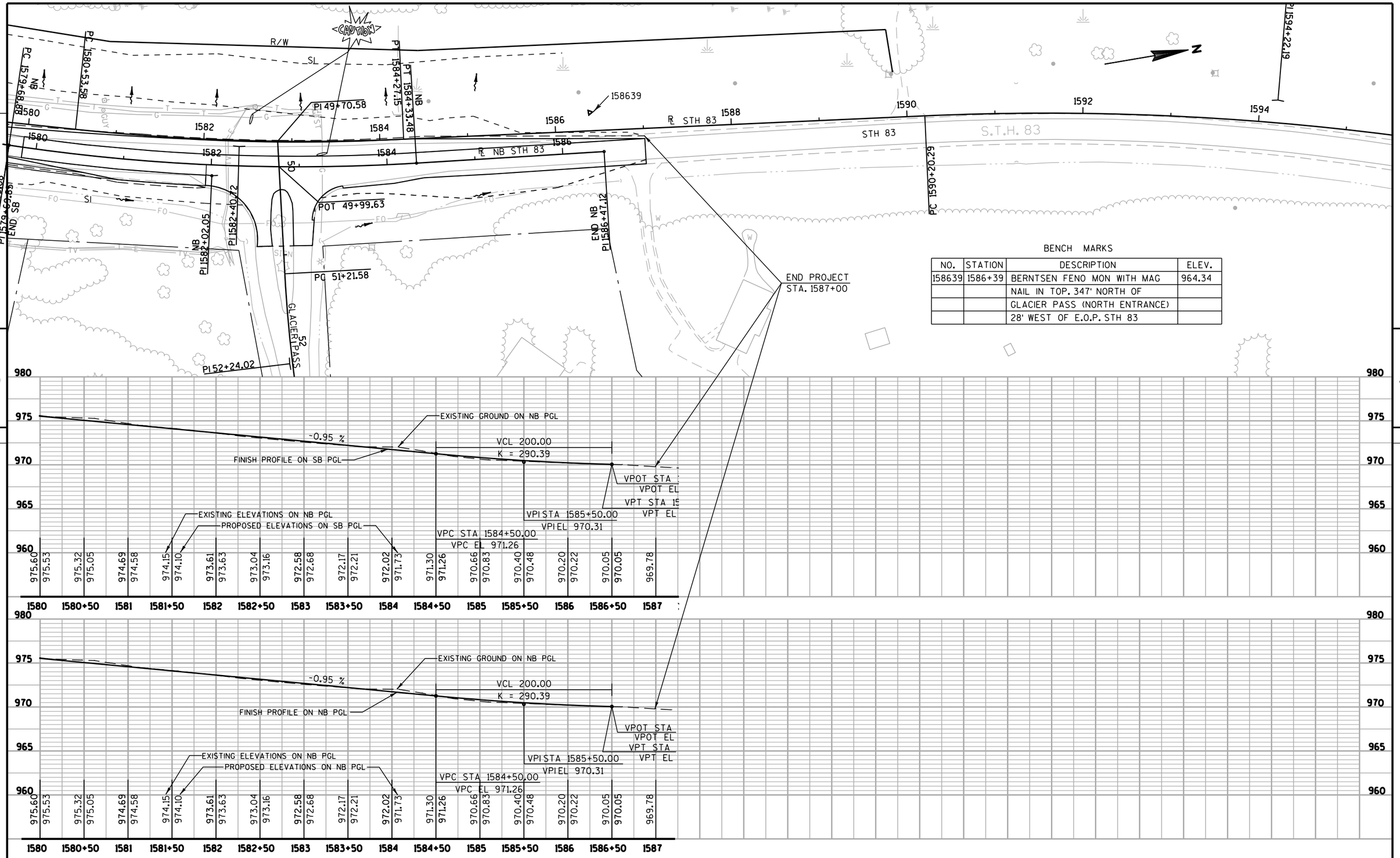


BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
157124	1571+24	BERNTSEN FENO MON WITH MAG	997.48
		NAIL IN TOP. ± 120' NORTH OF DW	
		W319 S1234. 59' EAST OF E.O.P.	
		OF STH 83	



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 525 E



BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
158639	1586+39	BERNTSEN FENO MON WITH MAG	964.34
		NAIL IN TOP. 347' NORTH OF	
		GLACIER PASS (NORTH ENTRANCE)	
		28' WEST OF E.O.P. STH 83	

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 526 E

SAWCUT AND MATCH

SLOPE INTERCEPT, TYP.

CAUTION

JOHN H. & BARBARA W. SANCHEZ

GEORGE & GEROGIANNA L. DVORAK

STH 83

SLOPE INTERCEPT

KATHERINE A. TURLEY

JOHN P. & JEANETTE M. SCHAEFER

SAWCUT AND MATCH

R/W

TLE

CTH E

CTH DE 65

N

BEGIN CONSTRUCTION - CTH E

STA 53+75.00
Y = 152 670.04
X = 642 920.85

SCOTT & KIM MCCULLOUGH

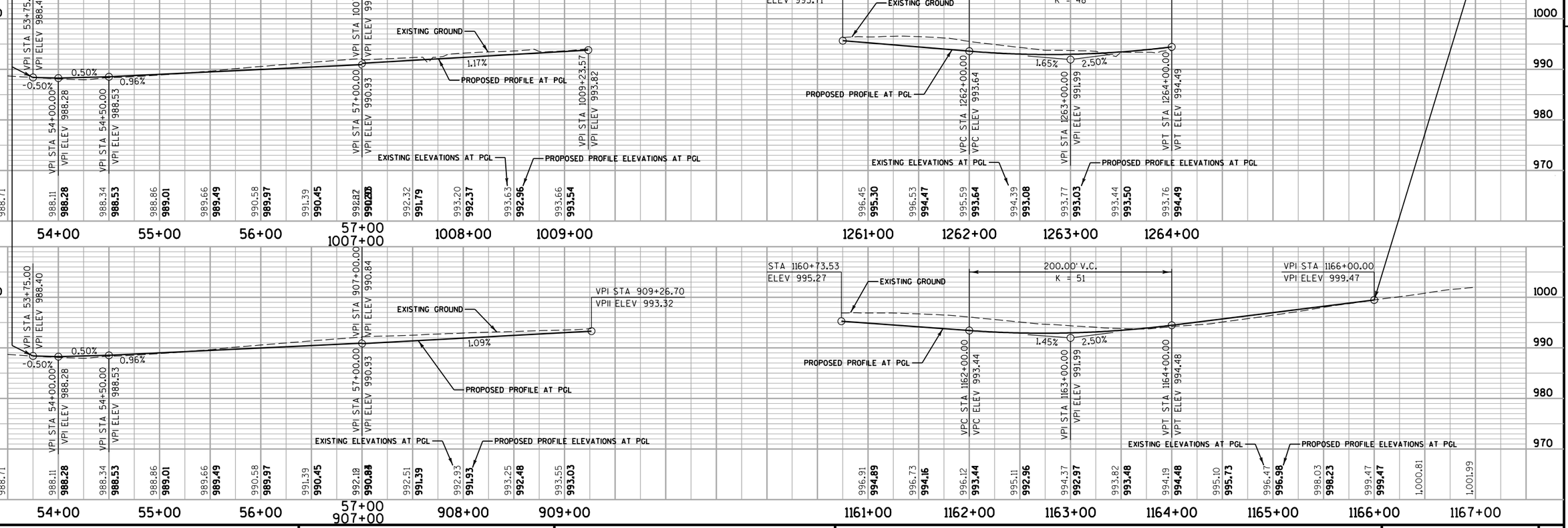
VINCENT C. & LISA M. SCHMITT

SLOPE INTERCEPT

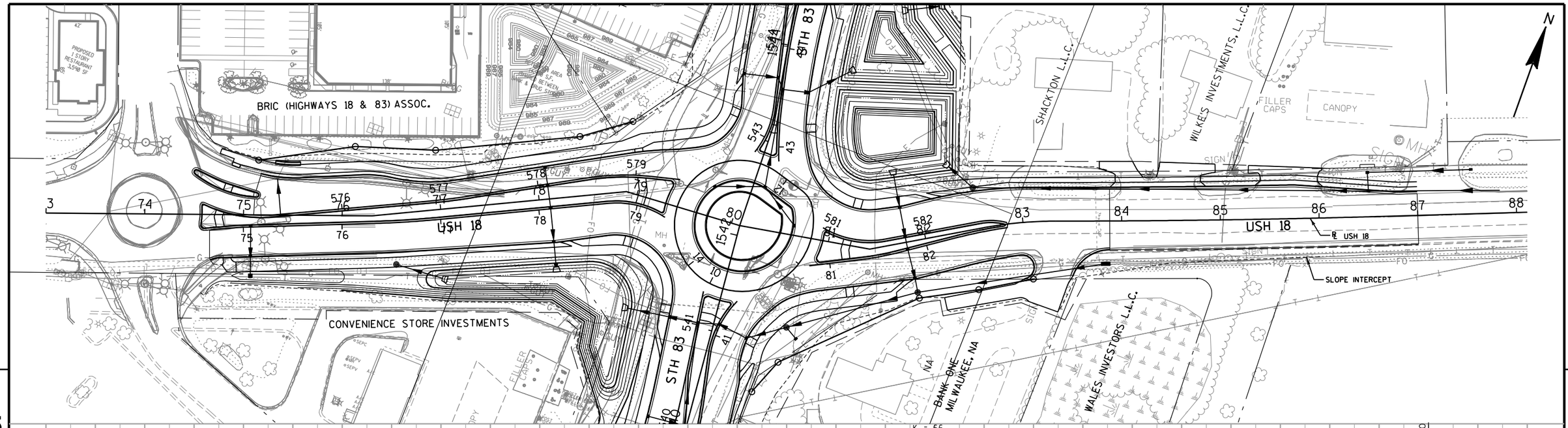
FRED S. & CHRISTINE E. VITALE

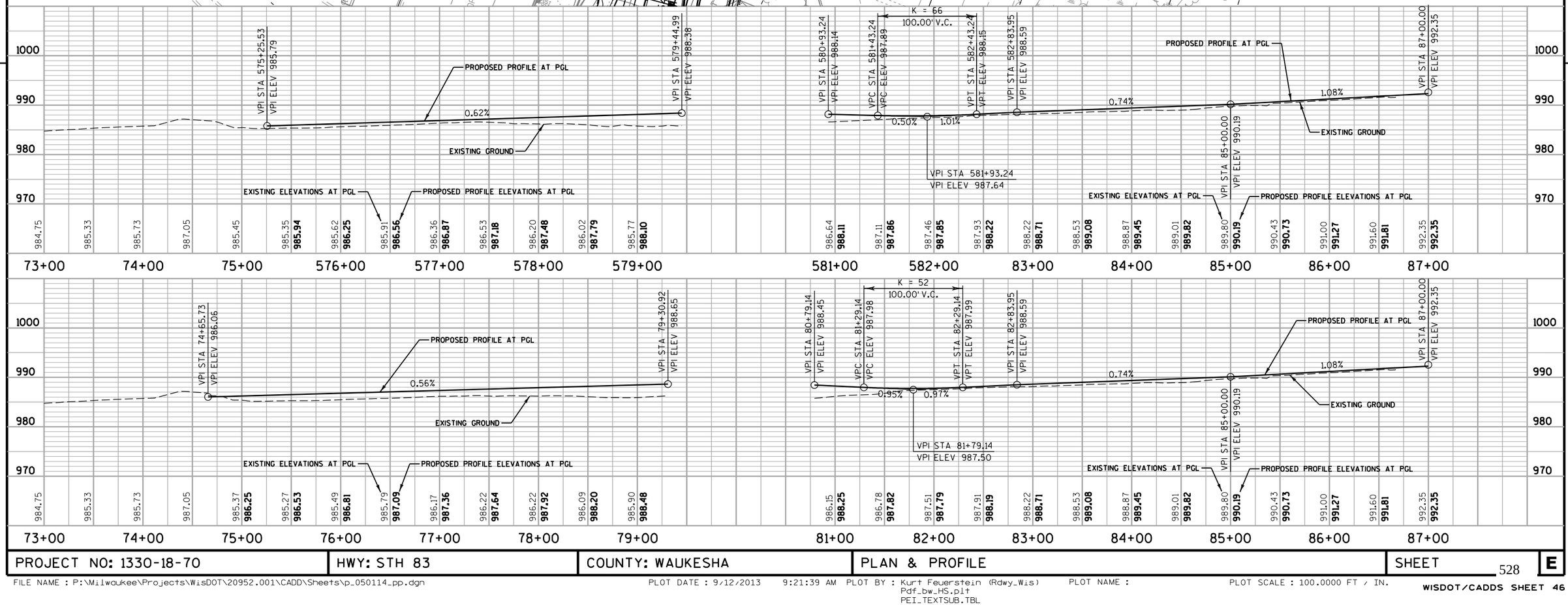
END CONSTRUCTION - CTH DE

STA 1166+00.00
Y = 153 133.30
X = 644 015.97



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 527 E





PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 528 E

6-INCH CMCP CULVERT
LENGTH: 23.76 FEET
INLET ELEVATION: 986.00
OUTLET ELEVATION: 985.75

℄ GDC

SLOPE INTERCEPT, TYP.

PROPOSED R/W

TLE

GLACIAL DRUMLIN TRAIL CONNECTOR

STH 83

STH 83

PC 100+00.00

PI 100+37.68

PT 100+56.97

PC 100+82.17

PT 100+96.57

PC 102+02.58

PI 102+18.93

PT 102+35.02

PC 103+05.56

PT 103+30.73

PC 103+62.00

PI 103+88.22

PT 104+08.08

PI 103+75.18

PI 103+18.20

PI 101+23.17

PI 105+06.29

PT 105+24.66

PI 105+34.66

PI 102+69.00

100+00

101+00

102+00

103+00

104+00

105+00

1534+00

1535+00

1536+00

1537+00

12+00

11+00

50.00' V.C.
K = 15

200.00' V.C.
K = 55

50.00' V.C.
K = 17

VPC STA 100+05.00
VPC ELEV 986.87

VPI STA 100+00.00
VPI ELEV 986.97

VPI STA 100+30.00
VPI ELEV 986.37

VPT STA 100+55.00
VPT ELEV 986.72

VPC STA 102+27.86
VPC ELEV 989.12

VPI STA 103+27.86
VPI ELEV 990.51

VPT STA 104+27.86
VPT ELEV 995.51

VPC STA 104+74.66
VPC ELEV 997.85

VPI STA 104+99.66
VPI ELEV 999.10

VPT STA 105+24.66
VPT ELEV 999.60

VPI STA 105+34.66
VPI ELEV 999.40

2.00%
1.39%
5.00%
1.39%
5.00%
2.00%
2.0%

PROPOSED PROFILE AT ℄

EXISITNG GROUND AT ℄

EXISTING GROUND ELEVATIONS AT ℄

PROPOSED PROFILE ELEVATIONS AT ℄

100+00	100+50	101+00	101+50	102+00	102+50	103+00	103+50	104+00	104+50	105+00
986.97	986.96	986.27	986.66	987.14	987.91	989.15	990.75	992.26	992.09	994.24
986.97	**986.66**	**987.34**	**988.04**	**988.73**	**989.47**	**990.59**	**992.16**	**994.19**	**996.62**	**998.92**

1002 1000 996 992 988 984 980 976

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 529	E

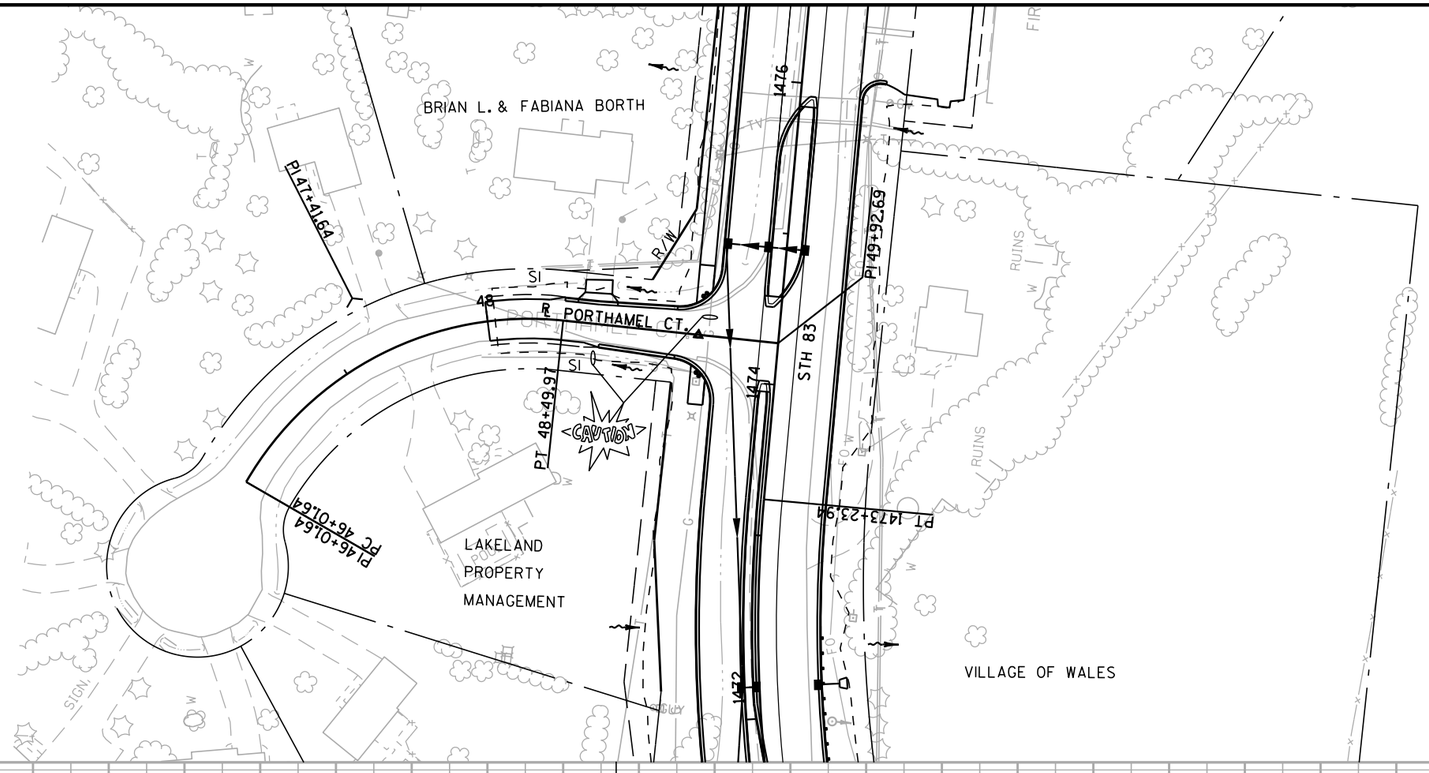
FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_050120_pp.dgn
PLOT DATE : 7/15/2013 6:31:01 PM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 40.0000 FT / IN.

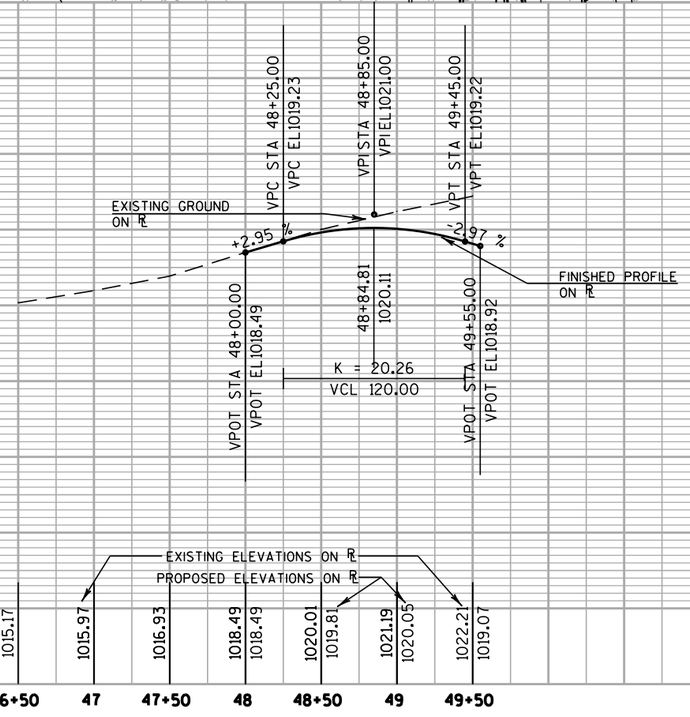
WISDOT/CADDS SHEET 30

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE	SHEET 530 E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_050121_pp.dgn PLOT DATE : 4/30/2013 2:34:04 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 40.0000 FT / IN.

WISDOT/CADDS SHEET 30





PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE - PORTHAMEL CT.	SHEET 531 E

FILE NAME : J:\projects\d2_13301883\050116_PP.DGN PLOT DATE : 30-JUL-2013 17:41 PLOT BY : ditj3s PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40

THE TRUSTEES OF
THE FIRST WELSH
CALVINISTIC CHURCH

POOL

JERUSALEM CEMETERY

CEMETERY

GENESEE WELSH
CEMETERY ASSOCIATION

N

LOW AREA

STH 83

CAUTION

PC 1483+79.82

1484

1482

1480

SI

44

46

48

CTH G

Cattle "C"

P.I. 43+25.50

P.I. 44+79.79

P.I. 49+80.71

ERIK E. & DEBORAH L. IHN

POOL

5

5

1020
1015
1010
1005
1000
995
980

STA 46+00.00
EL 1009.73

STA 46+25.00
EL 1008.56

STA 46+50.00
EL 1007.36

STA 46+75.00
EL 1006.18

STA 49+41.60
EL 1005.57

STA 49+59.00
EL 1005.90

VCI = 225.00
K = 29.89

FINISHED PROFILE
ON ℄

-4.65%
-4.83%
-4.69%
-3.52%
4.01%
1.90%

EXISTING GROUND
ON ℄

VPC STA 47+12.50
VPC EL 1004.86

VPI STA 48+25.00
VPI EL 1000.90

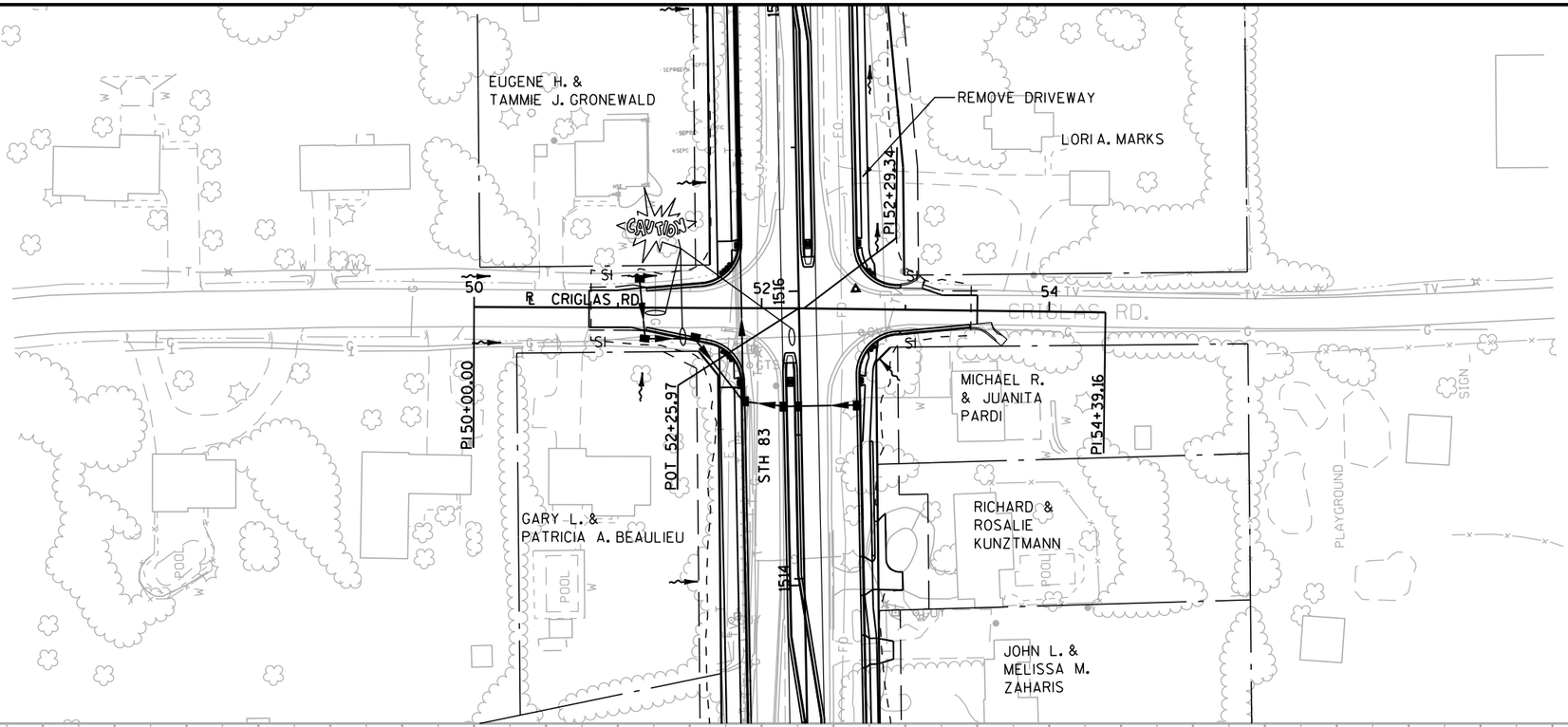
VPT STA 49+37.50
VPT EL 1005.41

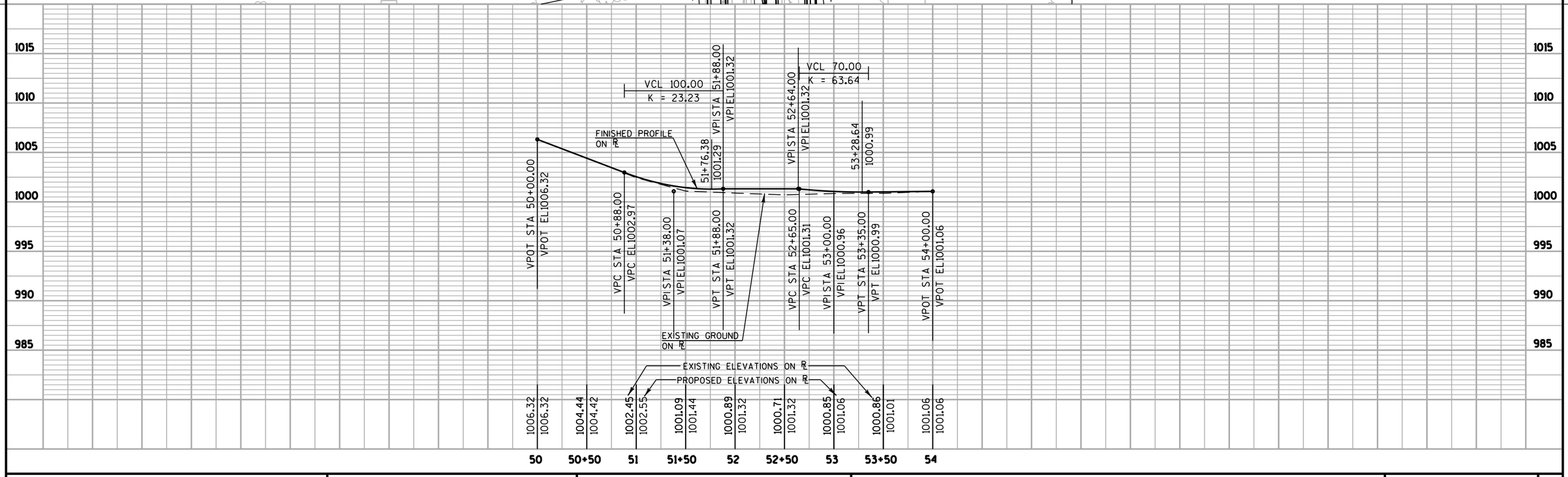
STA. 48+61.50
1-24" CPRC REQ'D
ELEV.= 997.50

EXISTING ELEVATIONS ON ℄
PROPOSED ELEVATIONS ON ℄

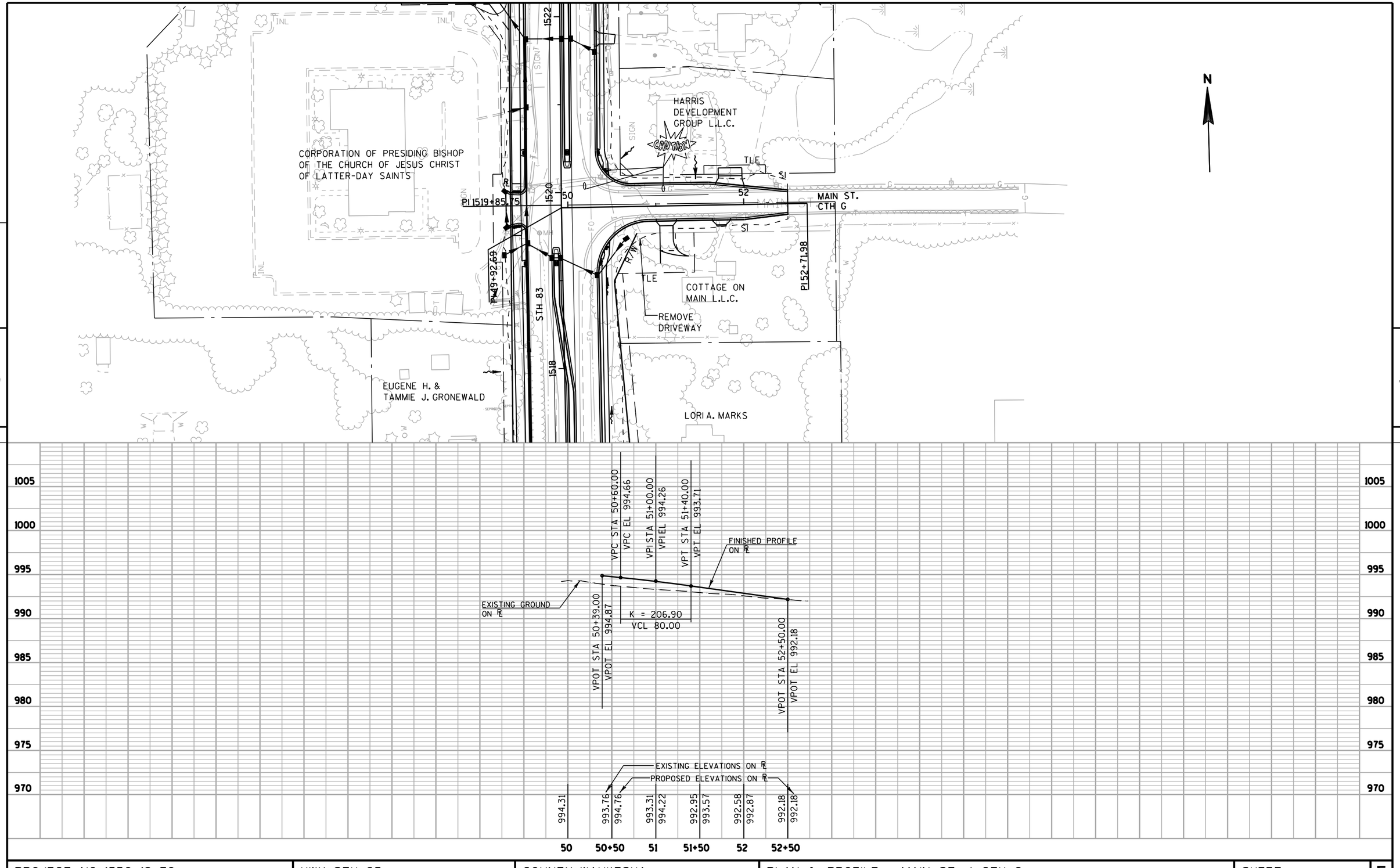
1014.60	1013.02	1011.52	1009.73	1007.36	1004.96	1002.77	1001.25	1001.13	1002.30	1004.06	
			1009.73	1007.36	1005.30	1003.78	1003.06	1003.18	1004.14	1005.73	
44+50	45+00	45+50	46+00	46+50	47+00	47+50	48+00	48+50	49+00	49+50	

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE - CTH G	SHEET 532 E





PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE - CRIGLAS RD.	SHEET 533 E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	PLAN & PROFILE - MAIN ST. / CTH G	SHEET 534 E

Standard Detail Drawing List

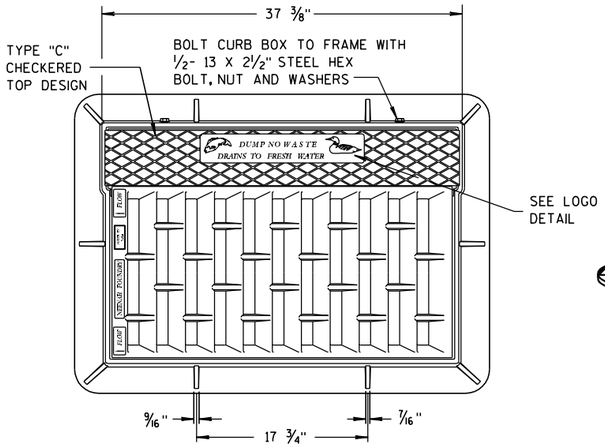
08A05-18A	INLET COVERS TYPE A, H, A-S, & H-S
08A05-18B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-18C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-18D	INLET COVER, TYPE BW, Z MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08C09-01	INLETS MEDIAN 3 AND 4 GRATE
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-15A	CURB RAMPS TYPES 1 AND 1-A
08D05-15B	CURB RAMPS TYPES 2 AND 3
08D05-15C	CURB RAMPS TYPES 4A AND 4A1
08D05-15D	CURB RAMPS TYPE 4B AND 4B1
08D05-15E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
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
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
09B02-07	CONDUIT
09B04-10	PULL BOX
09C02-06	CONCRETE BASES, TYPES 1, 2 & 5
09C03-03	TRANSFORMER/PEDESTAL BASES
09D01-04	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-02	SIGNAL OR LIGHTING CONTROL CABINET
09E01-12D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-12G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09F13-03	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
09G01-03A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-03G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11B01-05	CONCRETE CORRUGATED MEDIAN
11B02-02	CONCRETE MEDIAN NOSE
12A03-10	NAME PLATE (STRUCTURES)
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13B02-06	CONCRETE PAVEMENT APPROACH SLAB
13C01-16	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C04-16	URBAN NON-DOWELED CONCRETE PAVEMENT
13C18-01A	CONCRETE PAVEMENT JOINTING
13C18-01B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-01C	CONCRETE PAVEMENT JOINT TIES
13C18-01D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-01E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
14B07-13A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-01A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B22-05A	CONCRETE BARRIER, SINGLE-FACED (WITH ANCHORAGE)
14B22-05B	CONCRETE BARRIER, SINGLE-FACED (WITH ANCHORAGE)

6

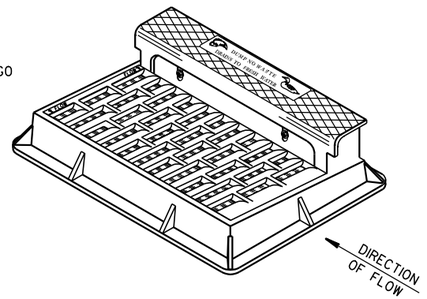
Standard Detail Drawing List

14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-01A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-01B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-01C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C03-01	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDABOUT ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16C	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16D	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C11-05	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C15-03	36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE
15C18-03	MEDIAN ISLAND MARKING
15C19-01A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-01B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-01C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C21-04	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D06-02	TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION
15D28-01	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE
16A01-06	LANDMARK REFERENCE MONUMENTS AND COVERS

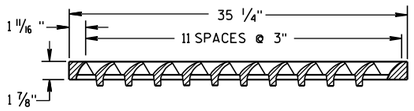
6

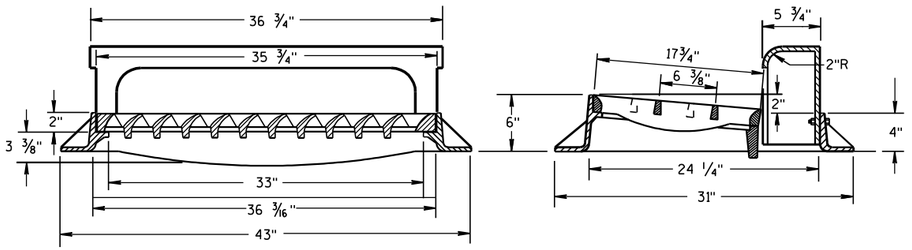


NOTE:
GRATE IS REVERSIBLE.



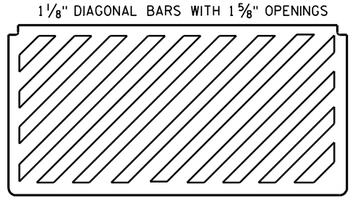
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"





TYPE "H"

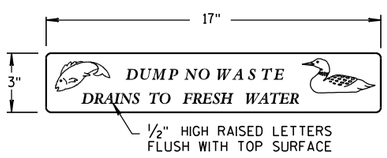
(APPROXIMATE WEIGHT 441 LBS.)
FRAME..... 181 LBS.
GRATE..... 146 LBS.
CURB BOX..... 114 LBS.



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")
(APPROXIMATE WEIGHT 159 LBS.)
GRATE..... 159 LBS.

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL

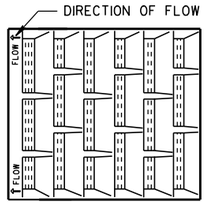
GENERAL NOTES

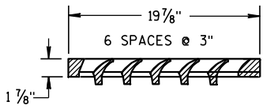
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

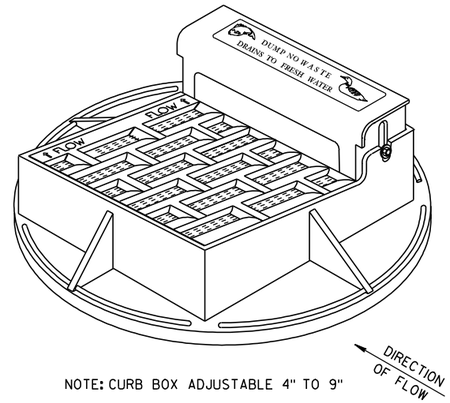
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

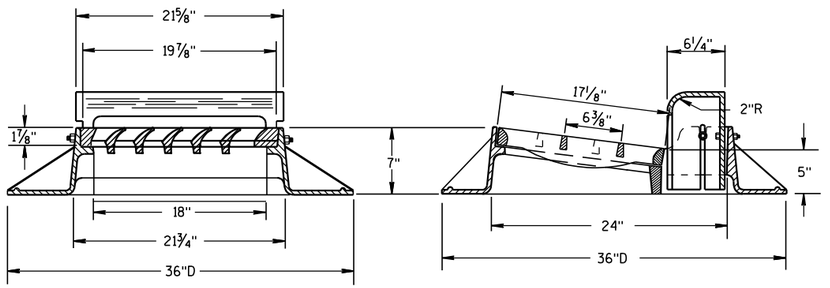
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





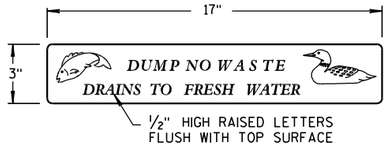


NOTE: CURB BOX ADJUSTABLE 4" TO 9"



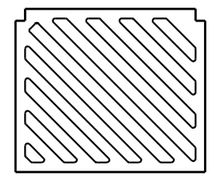
TYPE "A"

(APPROXIMATE WEIGHT 340 LBS.)
FRAME..... 185 LBS.
GRATE..... 71 LBS.
CURB BOX..... 84 LBS.



LOGO DETAIL

NOTE:
GRATE IS REVERSIBLE.



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8"
GRATE..... 84 LBS.

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

INLET COVERS TYPE A, H, A-S, & H-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

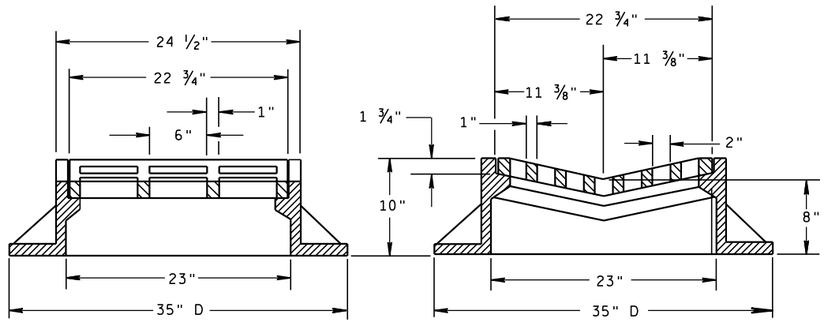
APPROVED
6/5/2012 DATE
/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER
537
FHWA

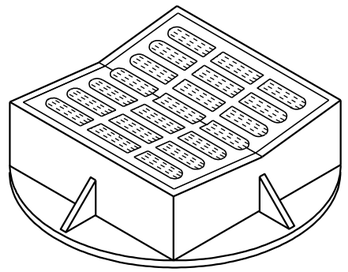
6

S.D.D. 8 A 5-18a

6

S.D.D. 8 A 5-18a

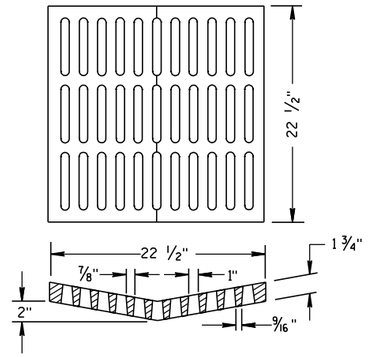




TYPE "B"

(APPROXIMATE WEIGHT 405 LBS.)

FRAME..... 294 LBS.
GRATE..... 111 LBS.

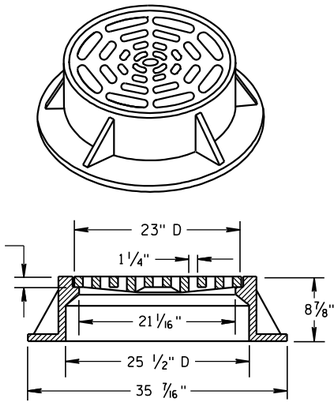


ALTERNATIVE GRATE FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 134 LBS.)

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

(APPROXIMATE WEIGHT 259 LBS.)

FRAME..... 152 LBS.
GRATE..... 107 LBS.

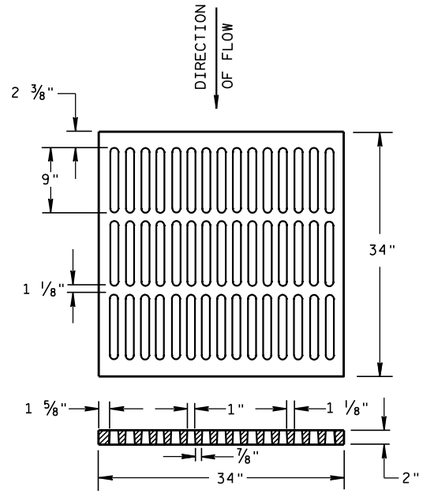
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

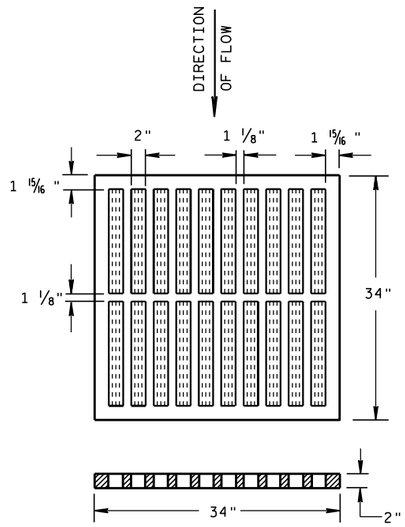


ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 329 LBS.)

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

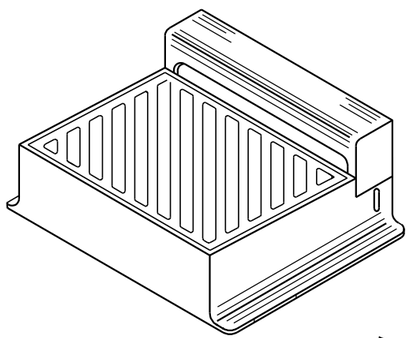


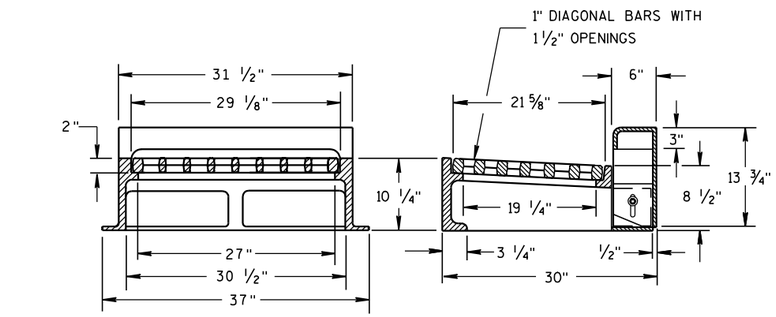
TYPE "MS"

(APPROXIMATE GRATE WEIGHT 268 LBS.)

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE





NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.

TYPE "WM"

(APPROXIMATE WEIGHT 648 LBS.)

FRAME..... 355 LBS.
GRATE..... 156 LBS.
CURB BOX..... 137 LBS.

INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

538

ENT

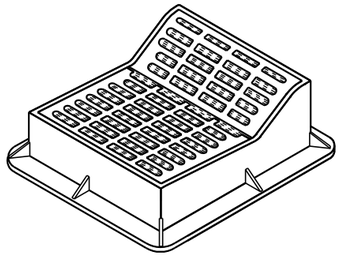
FHWA

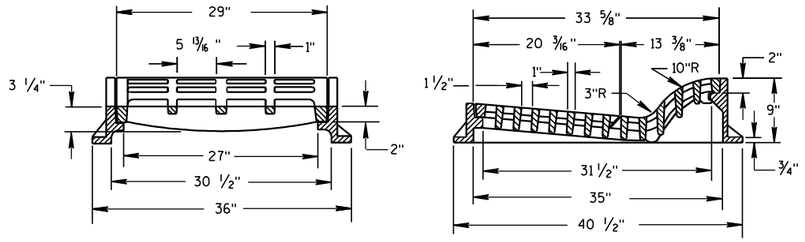
6

S.D.D. 8 A 5-18b

6

S.D.D. 8 A 5-18b



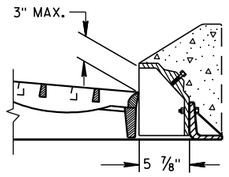


TYPE "F"

(APPROXIMATE WEIGHT 644 LBS.)

FRAME.....302 LBS.
GRATE.....160 LBS.
GRATE.....182 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

(APPROXIMATE WEIGHT CURB BOX 68 LBS.)

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

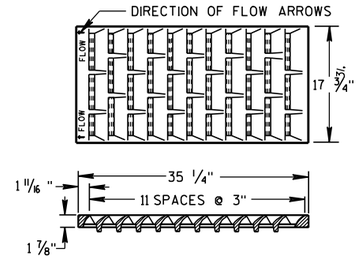
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

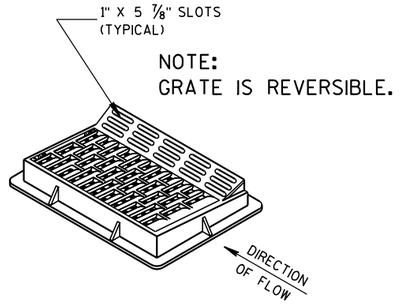
GENERAL NOTES

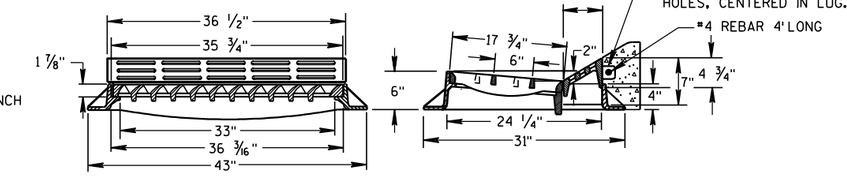
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





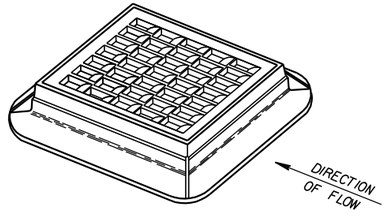


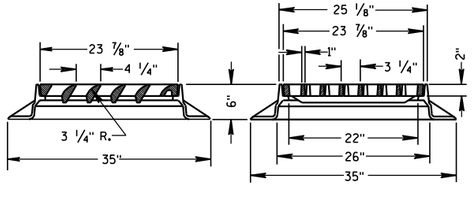
TYPE "HM"

(APPROXIMATE WEIGHT 414 LBS.)
FRAME..... 181 LBS.
GRATE..... 159 LBS.
CURB BOX..... 74 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE

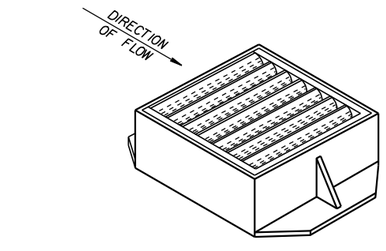


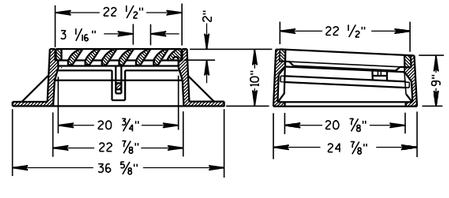


TYPE "S"

(APPROXIMATE WEIGHT 333 LBS.)

FRAME.....164 LBS.
GRATE..... 169 LBS.

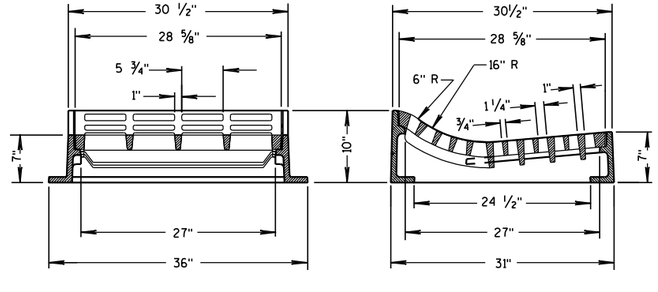


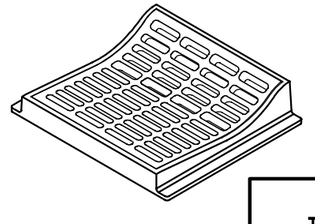


TYPE "V"

(APPROXIMATE WEIGHT 410 LBS.)

FRAME..... 269 LBS.
GRATE..... 136 LBS.
SAFETY BAR..... 5 LBS.





TYPE "T"

(APPROXIMATE WEIGHT 530 LBS.)
FRAME.....270 LBS.
GRATE.....260 LBS.
USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

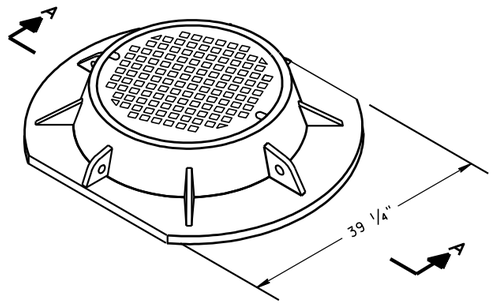
539

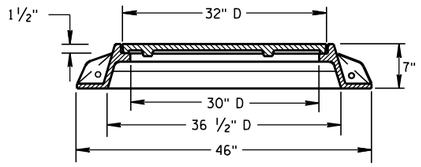
6

S.D.D. 8 A 5-18c

6

S.D.D. 8 A 5-18c



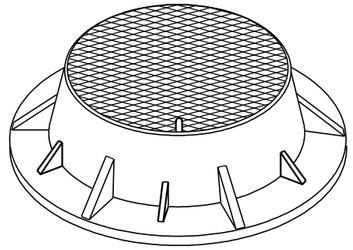


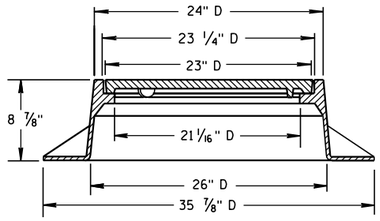
SECTION A-A

TYPE "K"

(APPROXIMATE WEIGHT 439 LBS.)

FRAME.....216 LBS.
LID.....223 LBS.

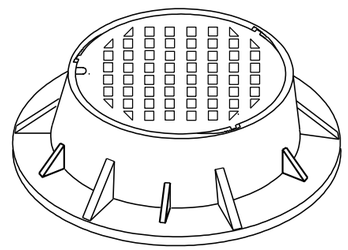


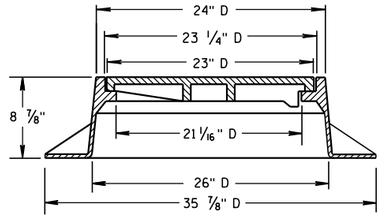


TYPE "J"

(APPROXIMATE WEIGHT 267 LBS.)

FRAME.....152 LBS.
LID.....115 LBS.





TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 267 LBS.)

FRAME.....158 LBS.
LID.....109 LBS.

(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

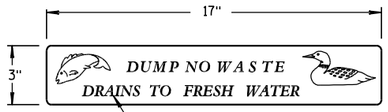
GENERAL NOTES

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

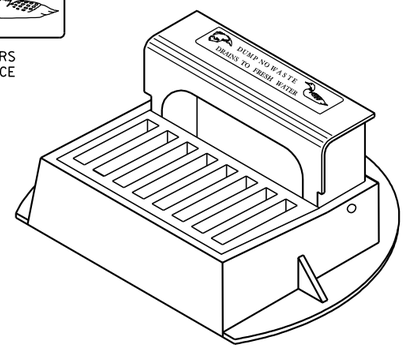
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

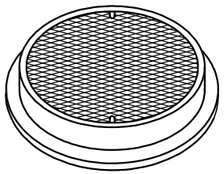
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

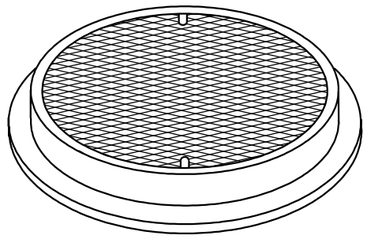
THE ACTUAL WEIGHT OF COVERS MAY VARY WITH 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

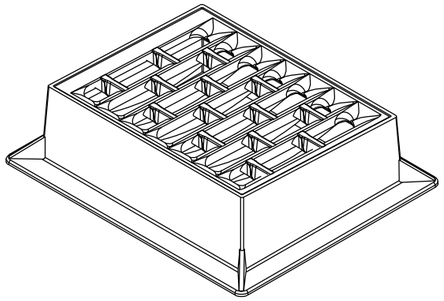


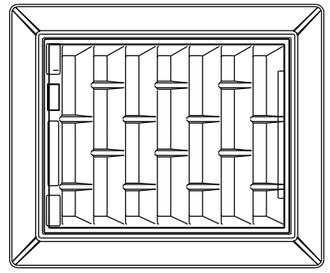
LOGO DETAIL

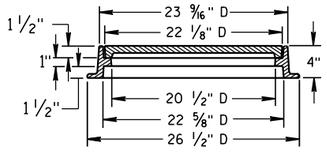








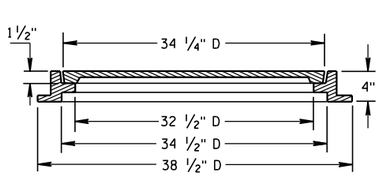




TYPE "L"

(APPROXIMATE WEIGHT 158 LBS.)

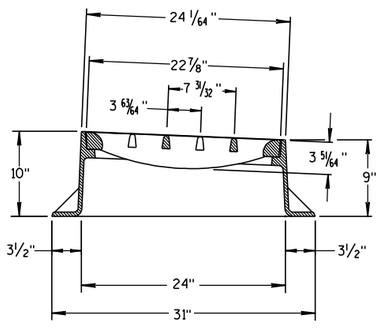
FRAME.....81 LBS.
LID.....77 LBS.

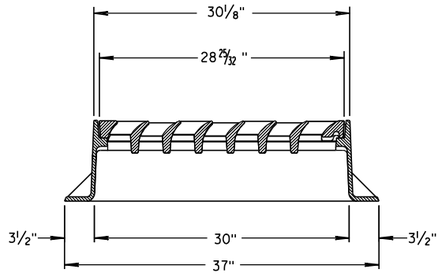


TYPE "M"

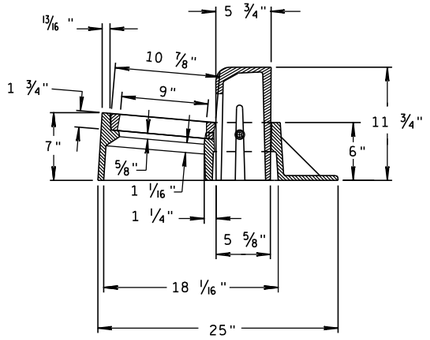
(APPROXIMATE WEIGHT 377 LBS.)

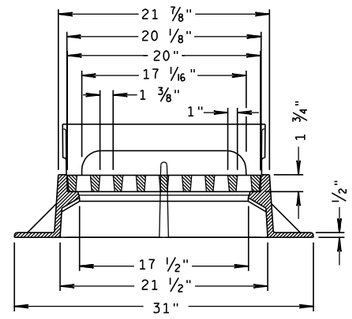
FRAME..... 125 LBS.
LID..... 252 LBS.





INLET COVER TYPE "BW"





INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 344 LBS.)

FRAME.....206 LBS.
GRATE..... 46 LBS.
CURB BOX..... 92 LBS.

INLET COVERS, TYPE BW, Z MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

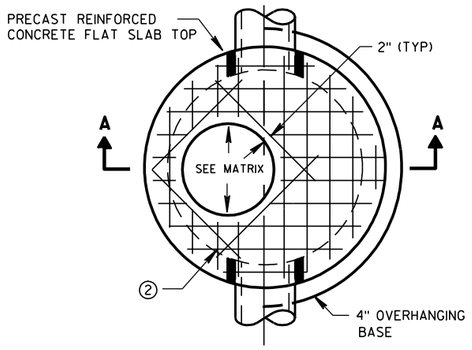
APPROVED

6/5/2012
DATE

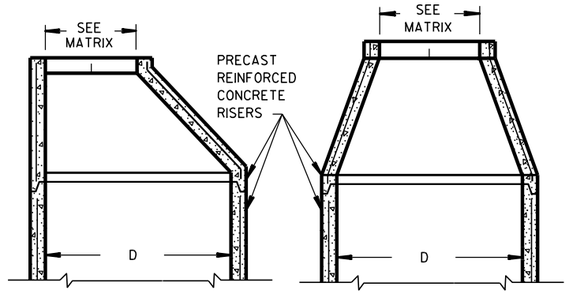
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

6
S.D.D. 8 A 5-18d

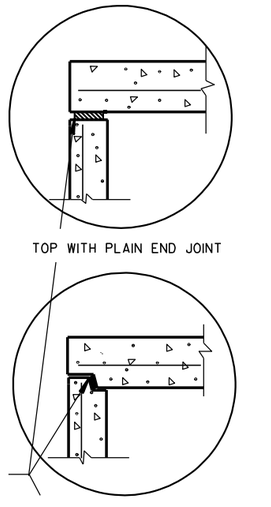


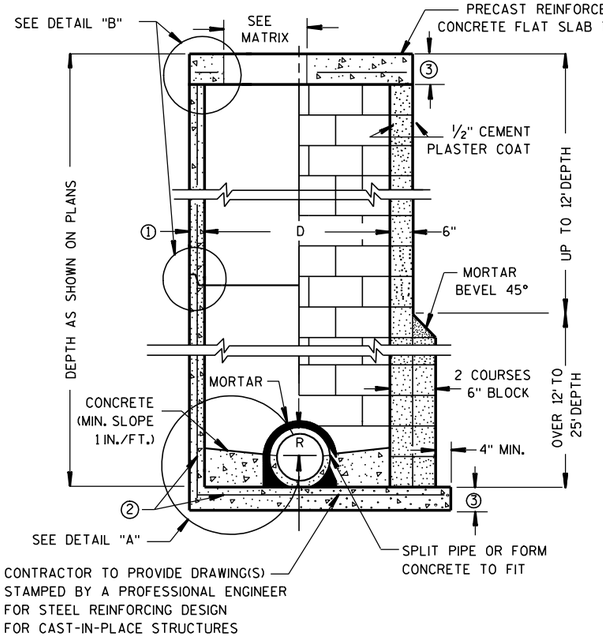
PLAN VIEW CIRCULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

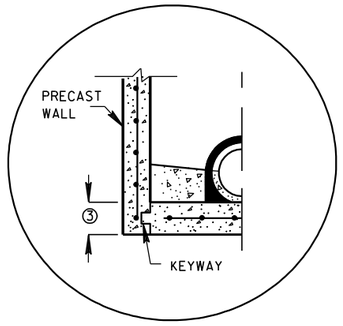
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



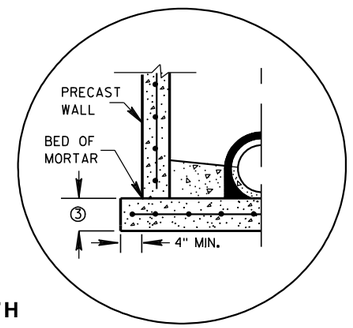


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

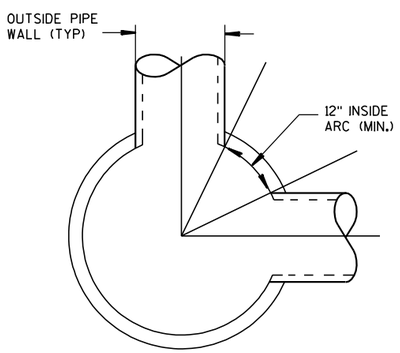


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

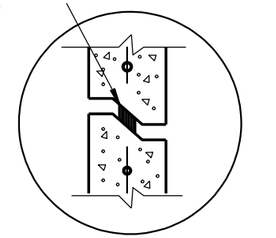


SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"



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 MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

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

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

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

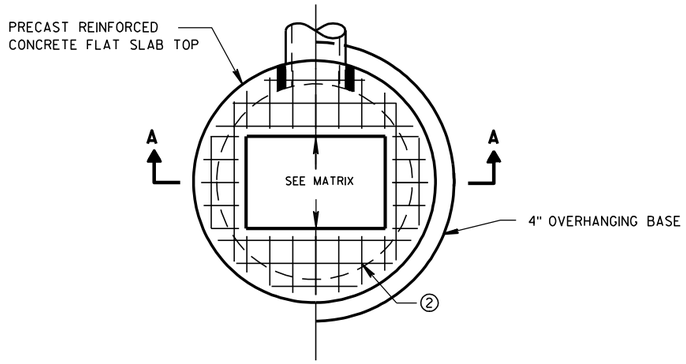
6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

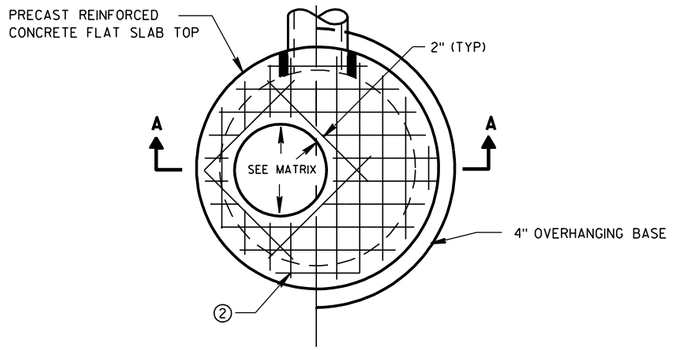
FHWA

541

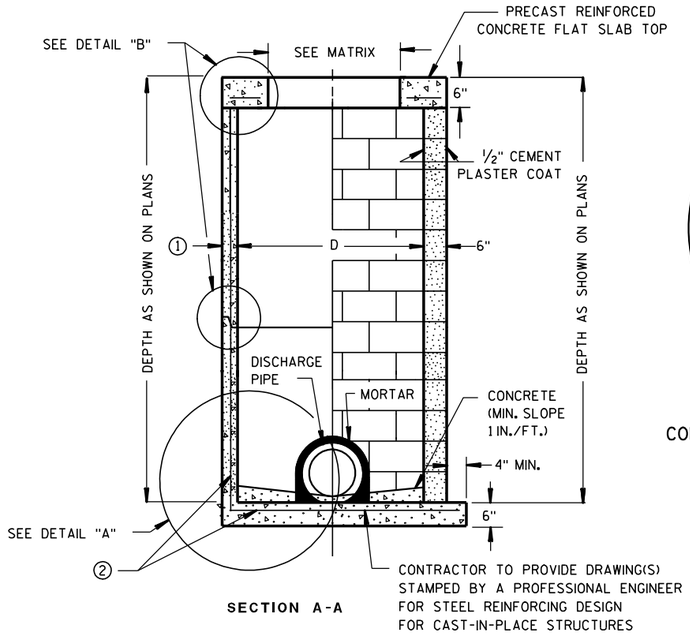
6
S.D.D. 8 B 9-1



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

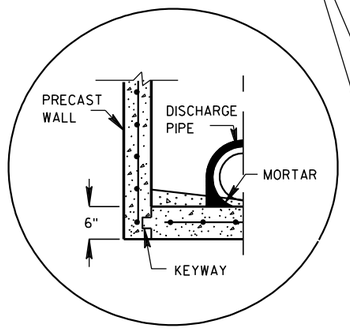


SECTION A-A

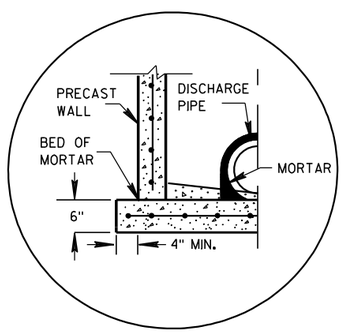
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

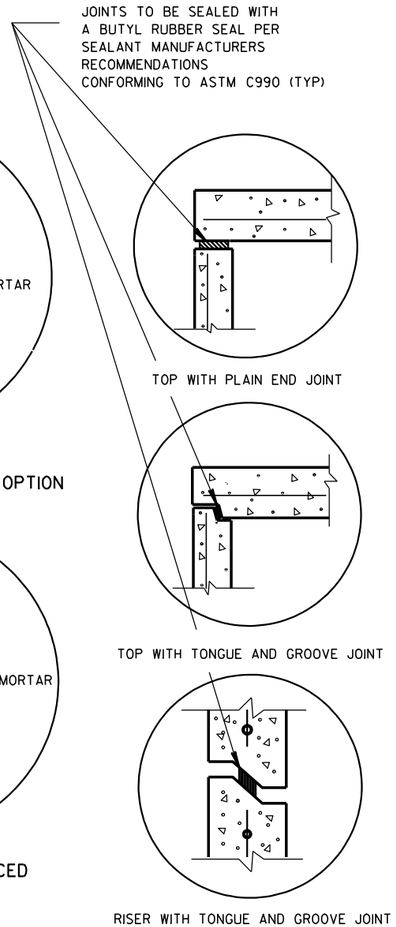


PRECAST REINFORCED
CONCRETE WITH INTEGRAL BASE OPTION



SEPERATE PRECAST REINFORCED
CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

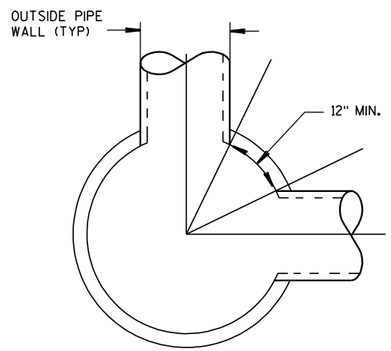
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

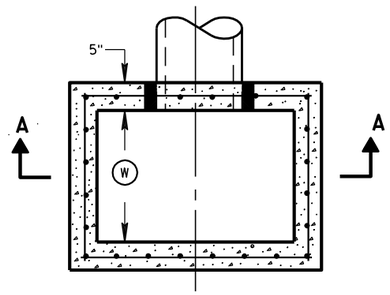
INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

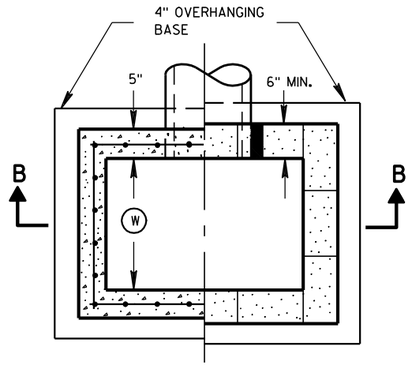
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

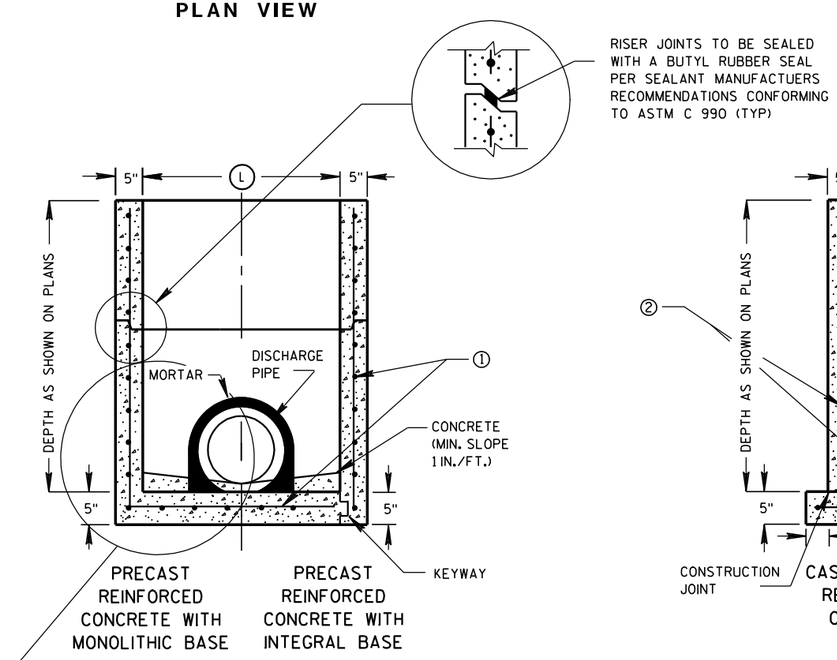
6
S.D.D. 8 C 6-1



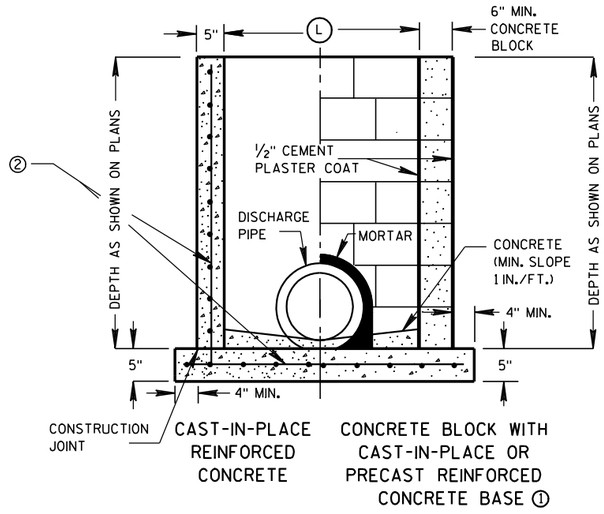
PLAN VIEW



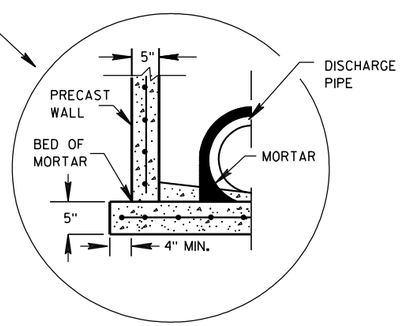
PLAN VIEW



SECTION A-A



SECTION B-B



SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

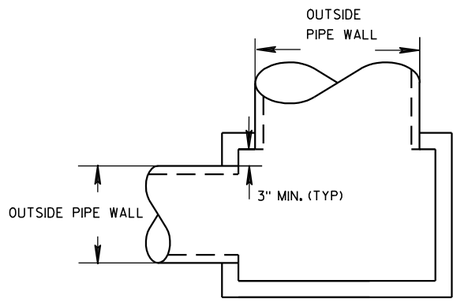
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

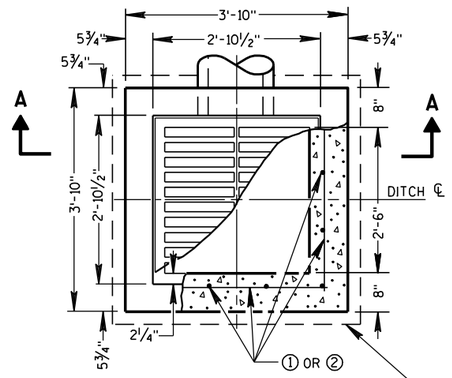
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS D — ENGINEER
FHWA

6

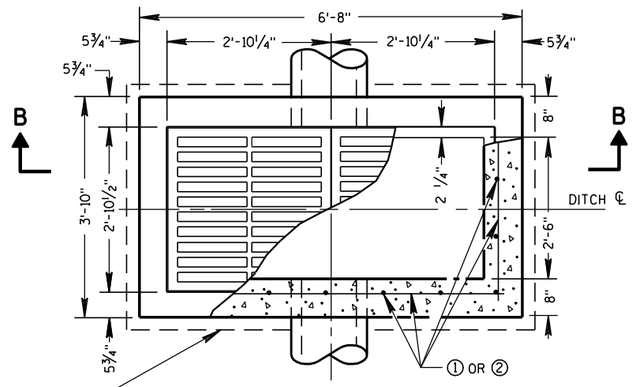
S.D.D. 8 C 7-1

6

S.D.D. 8 C 7-1

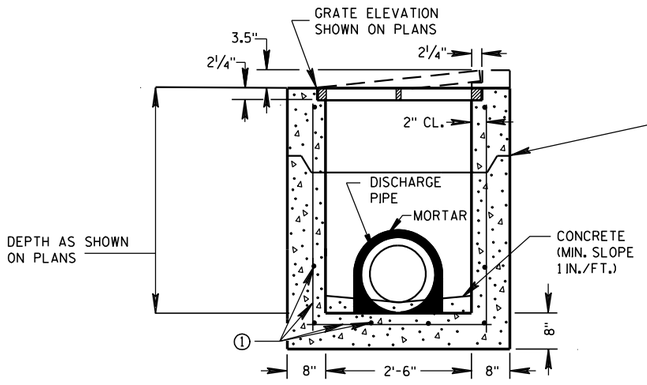


PLAN VIEW

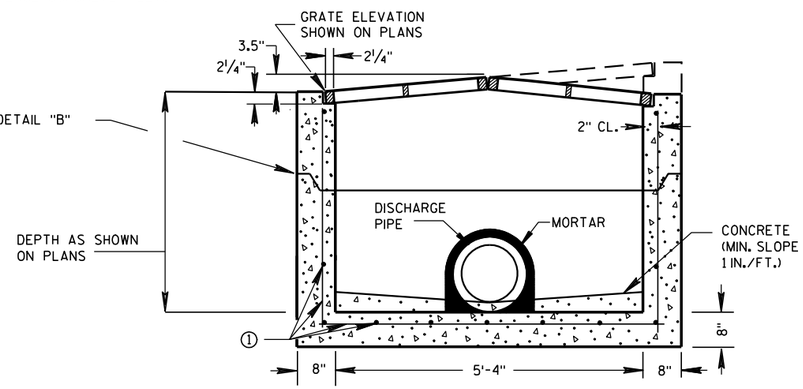


PLAN VIEW

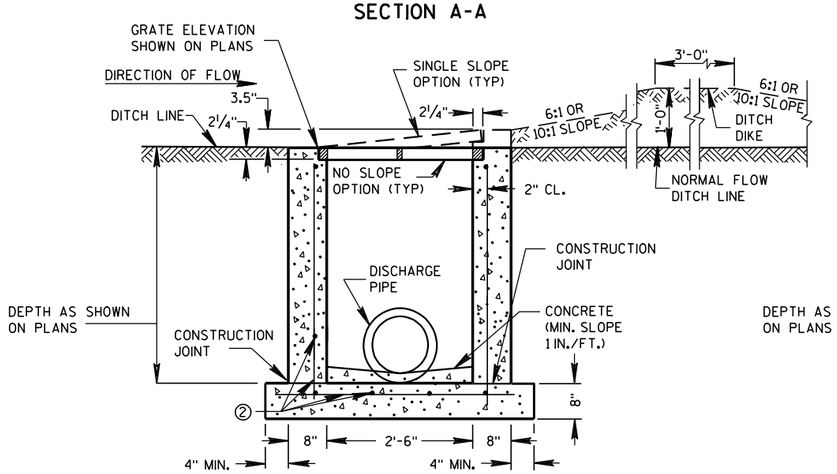
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



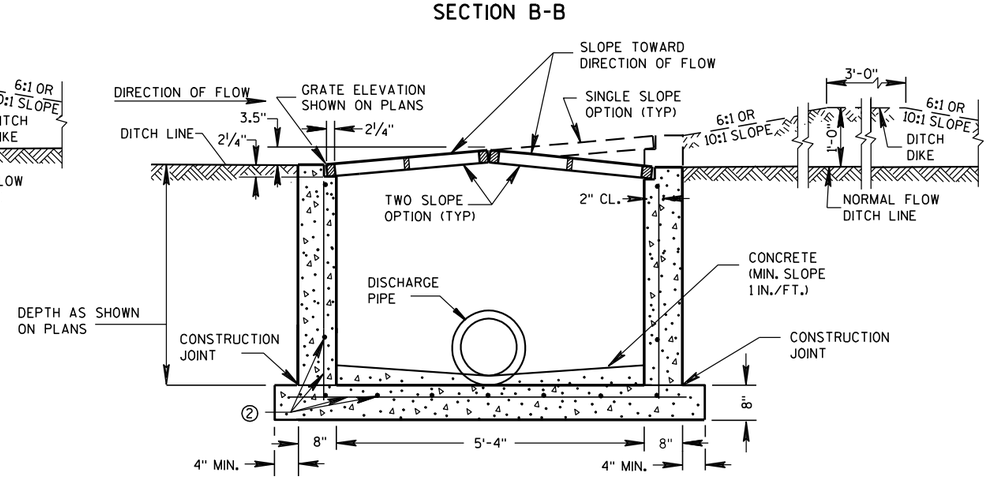
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

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 INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

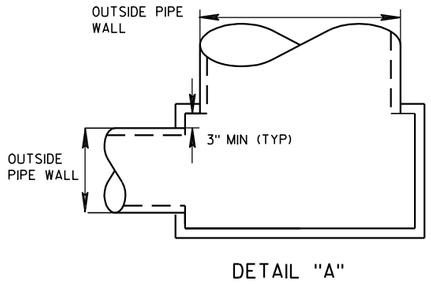
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

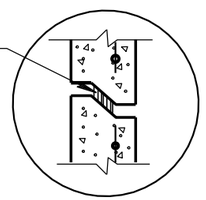
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

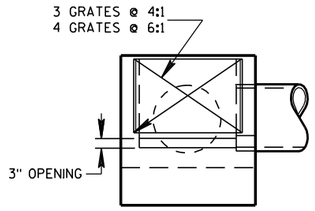
FHWA

6

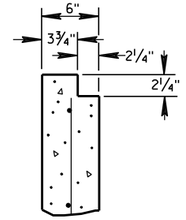
S.D.D. 8 C 8-1

6

S.D.D. 8 C 8-1



SECTION B-B



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.

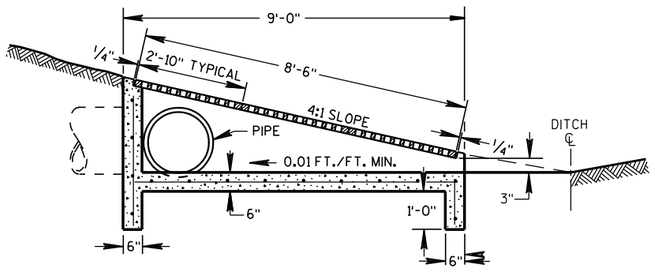
UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

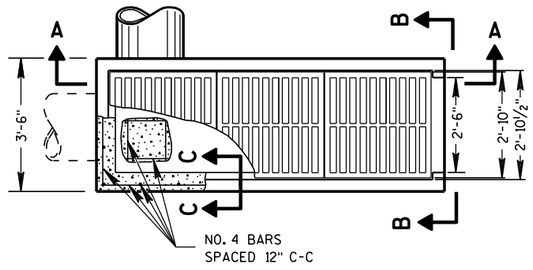
ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 3G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

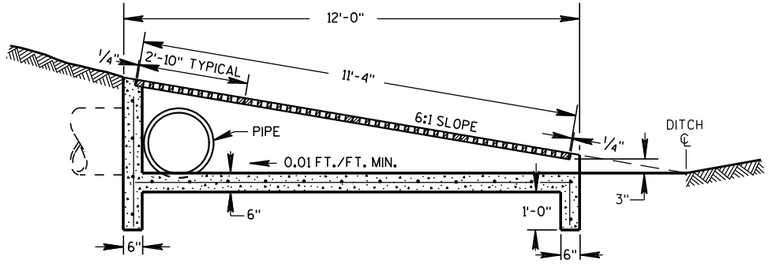


SECTION A-A

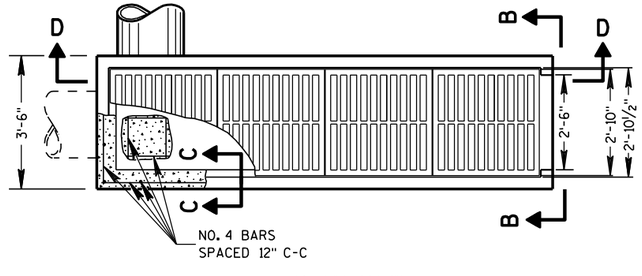


PLAN VIEW

INLETS MEDIAN 3 GRATE



SECTION D-D



PLAN VIEW

INLETS MEDIAN 4 GRATE

INLETS MEDIAN 3 AND 4 GRATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEV ENGINEER

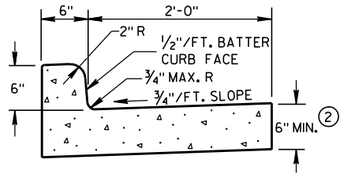
FHWA

6

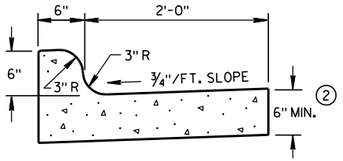
S.D.D. 8 C 9-1

6

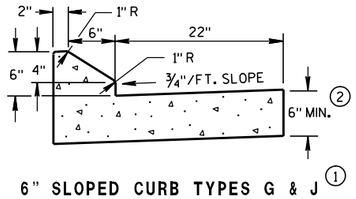
S.D.D. 8 C 9-1



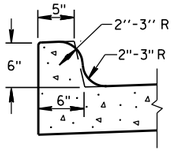
TYPES A & D (1)



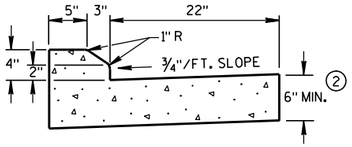
TYPES K & L (1)



6" SLOPED CURB TYPES G & J (1)

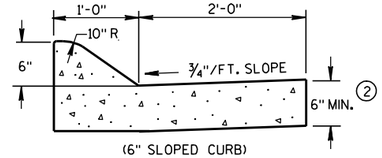


OPTIONAL CURB SHAPE FOR TYPES K & L (1)

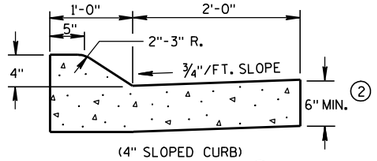


4" SLOPED CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

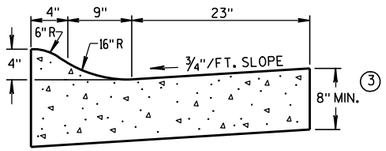


(6" SLOPED CURB)



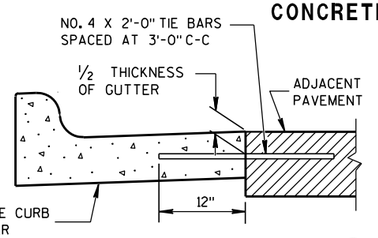
(4" SLOPED CURB)

TYPES A & D (1)

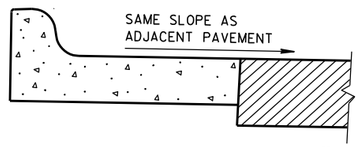


4" SLOPED CURB TYPES R & T (1) (4)

CONCRETE CURB & GUTTER 36"



TYPICAL TIE BAR LOCATION (1)



REVERSE SLOPE GUTTER (5)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

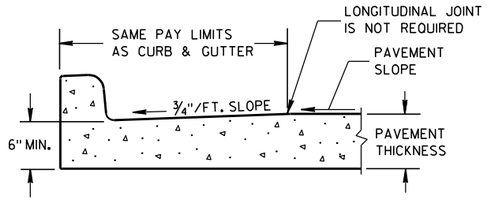
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

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

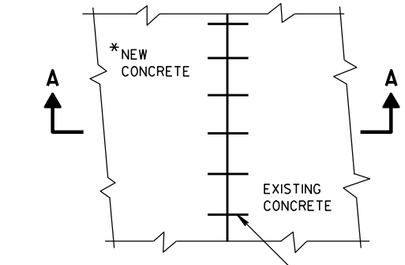
(3) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(4) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(5) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

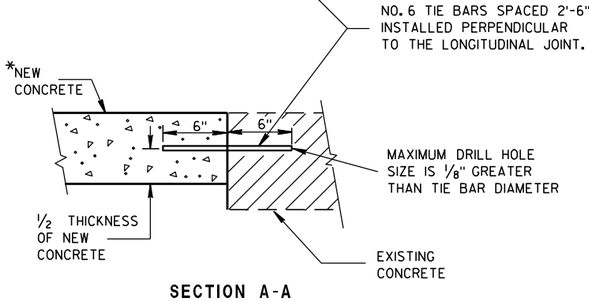


PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



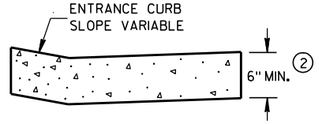
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

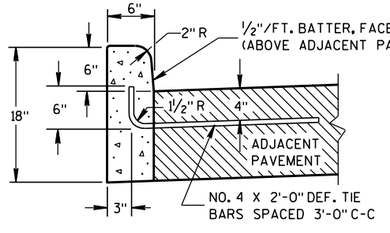


SECTION A-A

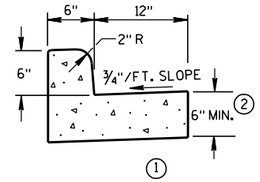
TIE BARS DRILLED INTO EXISTING PAVEMENT



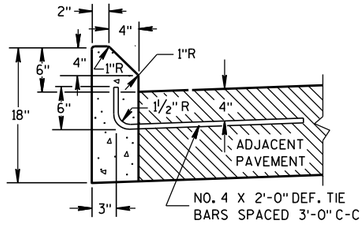
DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)



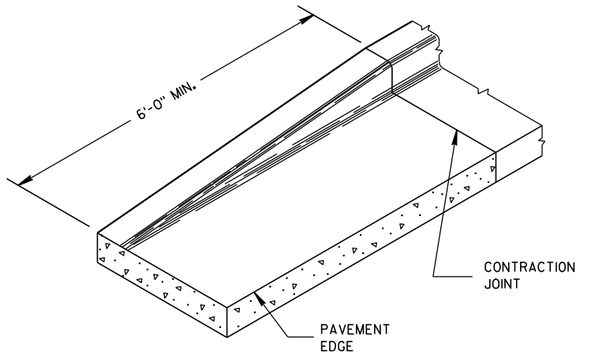
(1)
TYPES A & D



(1)
TYPES A & D
CONCRETE CURB & GUTTER 18"



(1)
TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB

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	

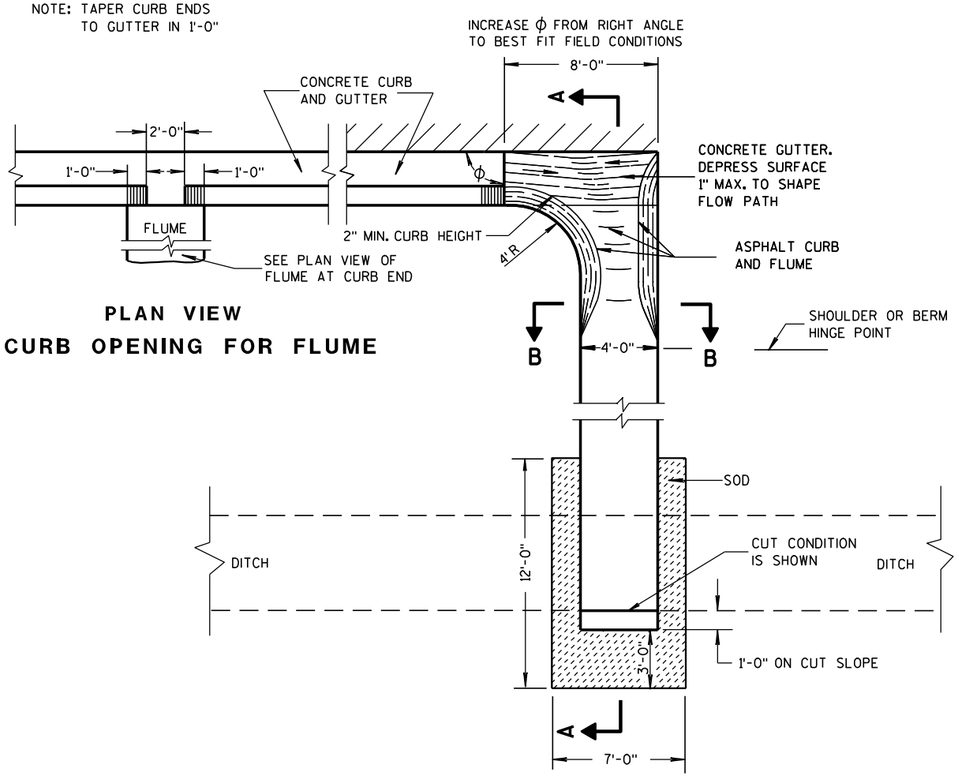
6

S.D.D. 8 D 1-17

6

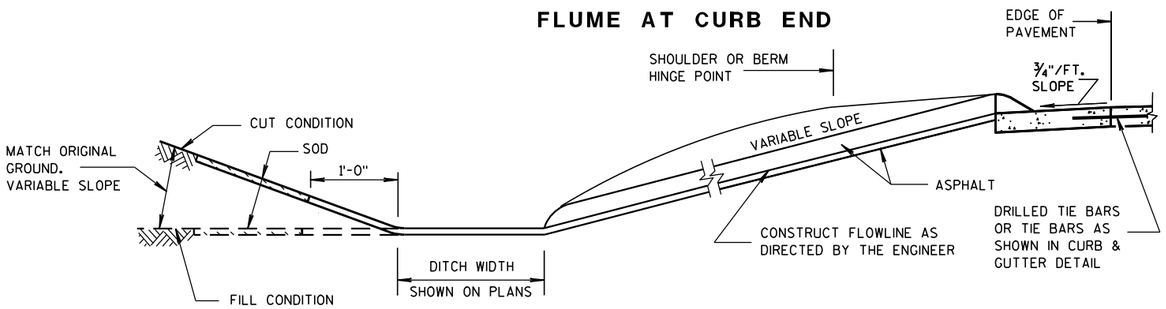
S.D.D. 8 D 1-17

ASPHALTIC FLUME

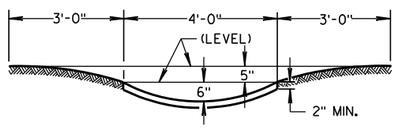


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

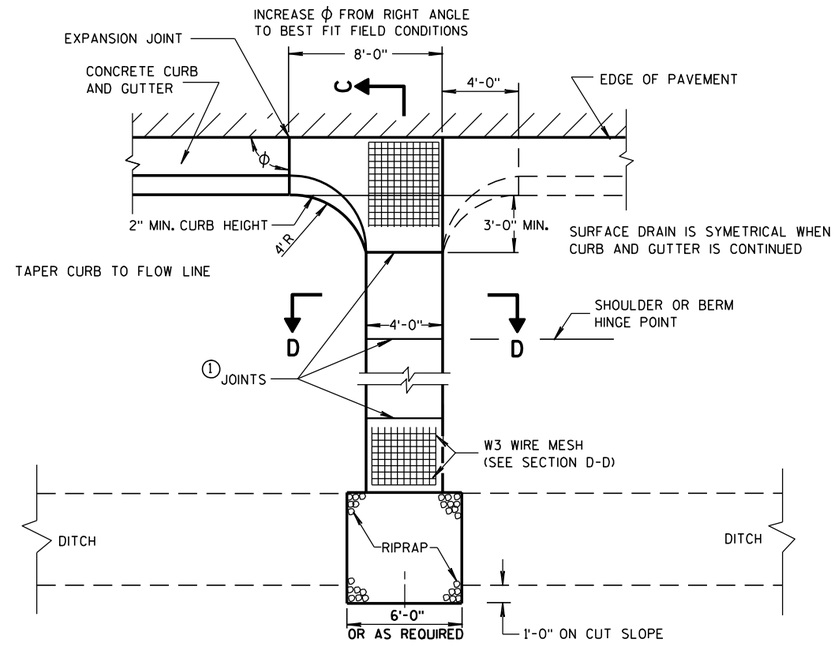
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

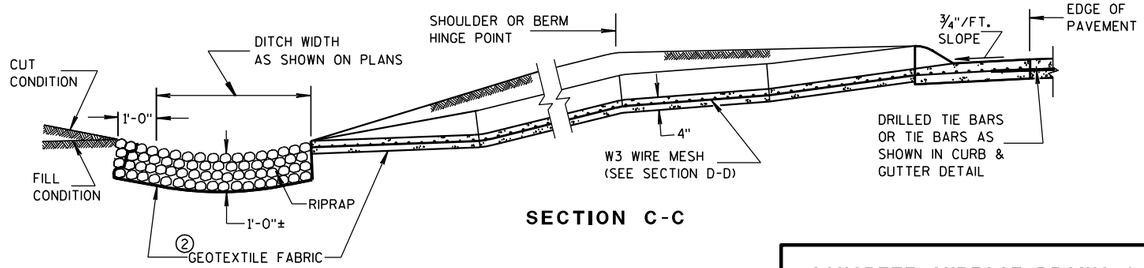
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

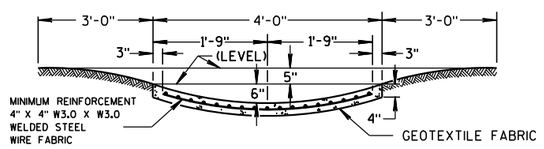
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

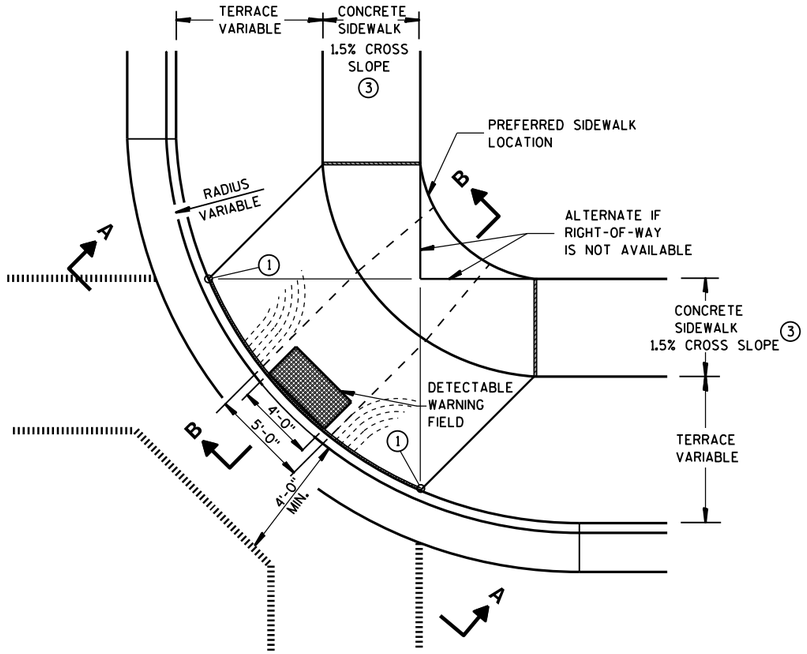
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
547
MENT
FHWA

6

S.D.D. 8 D 4-5

6

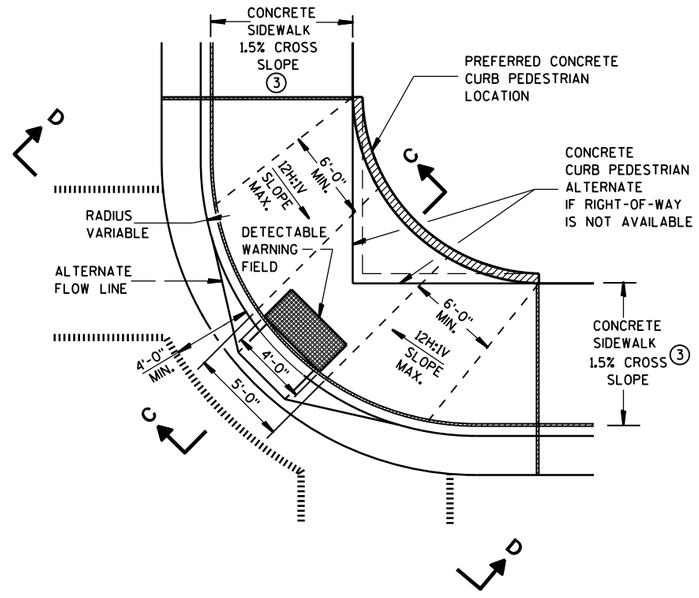
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

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

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

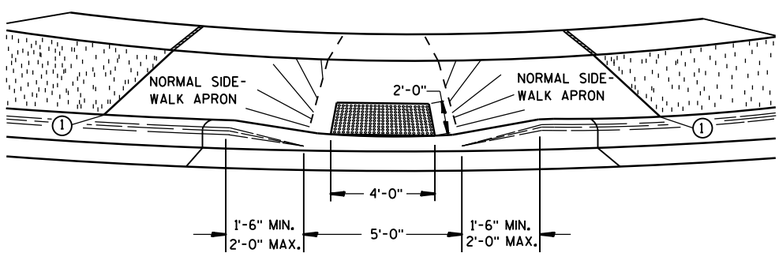
① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

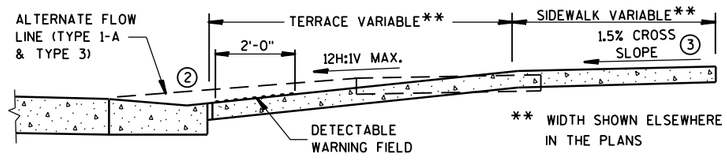
③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

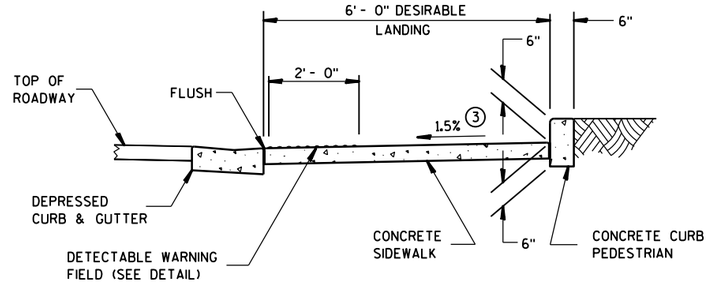
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



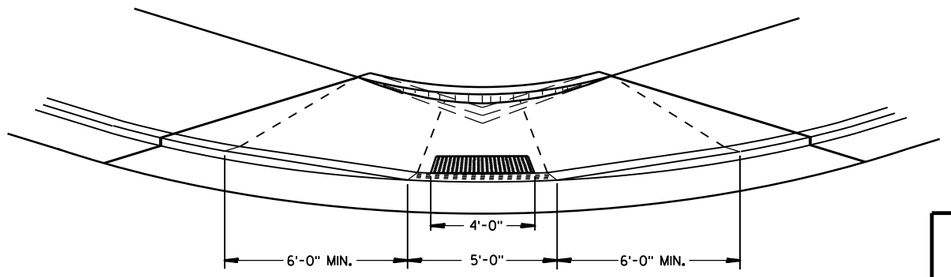
VIEW A-A



SECTION B-B



SECTION C-C



VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

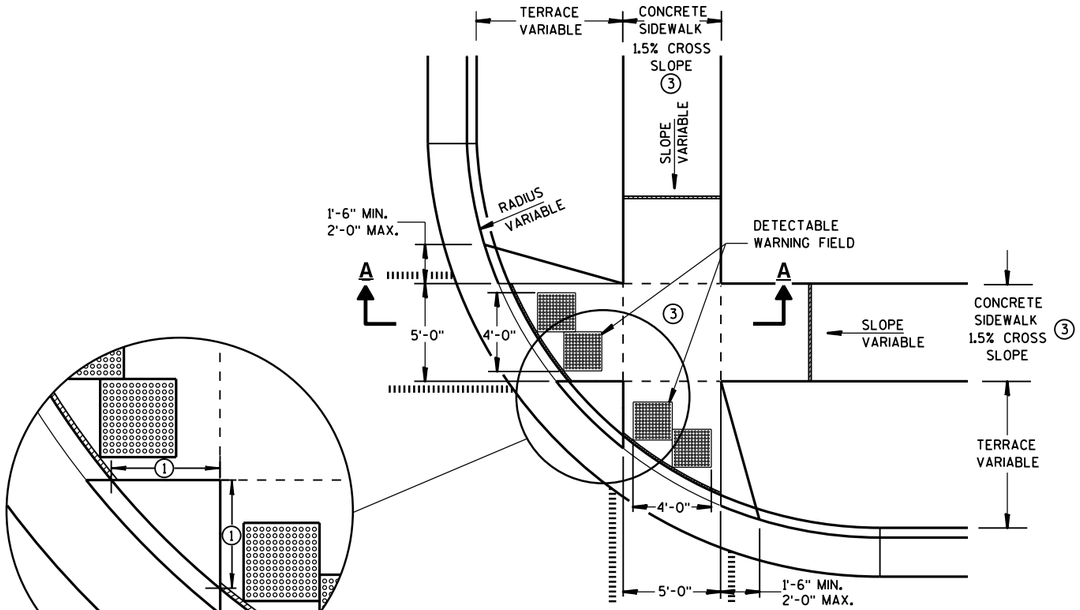
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 548

6

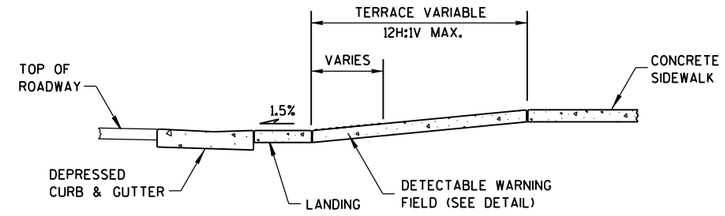
S.D.D. 8 D 5-15a

6

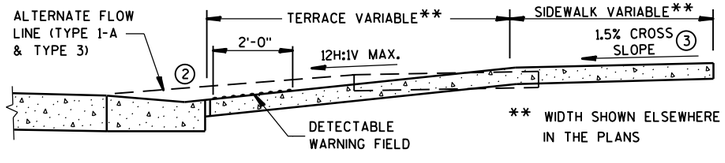
S.D.D. 8 D 5-15a



PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

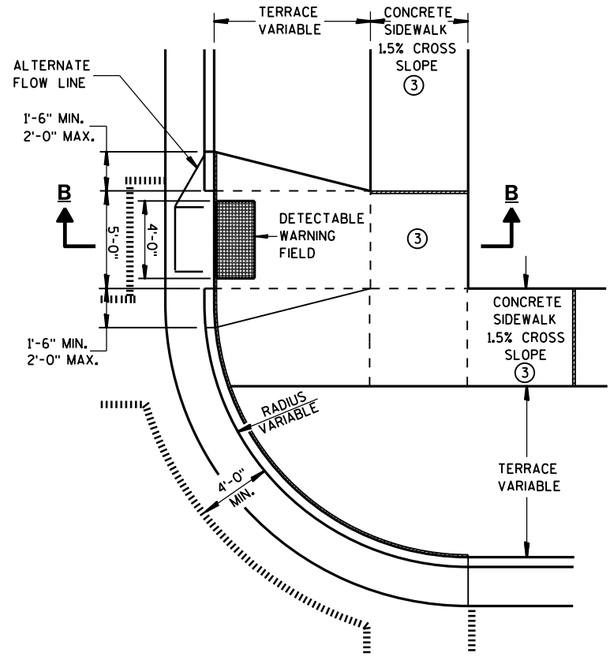
① WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

③ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



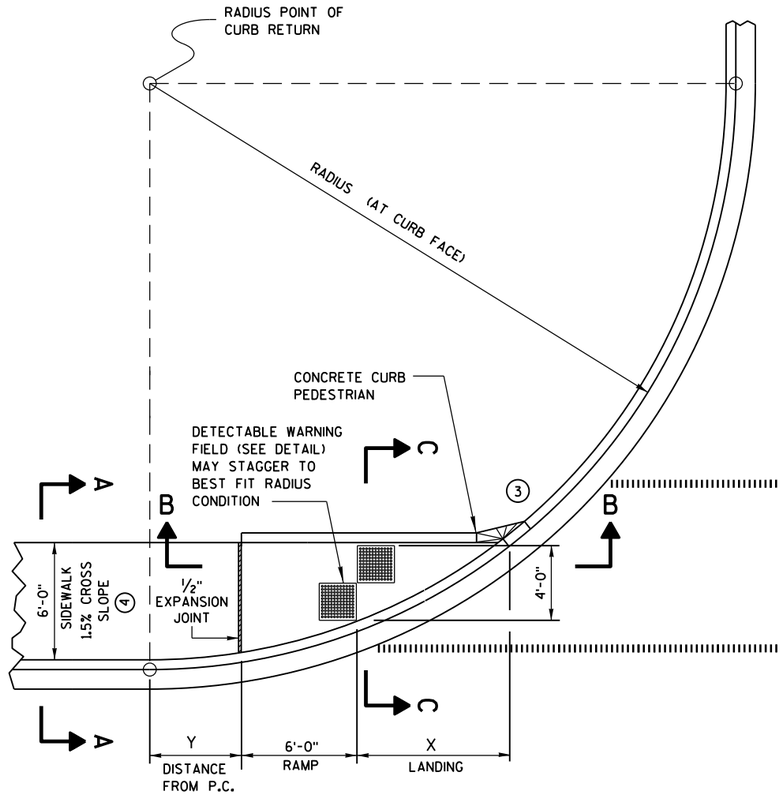
PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

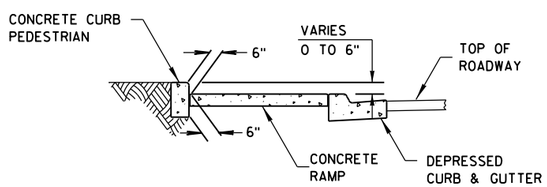
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

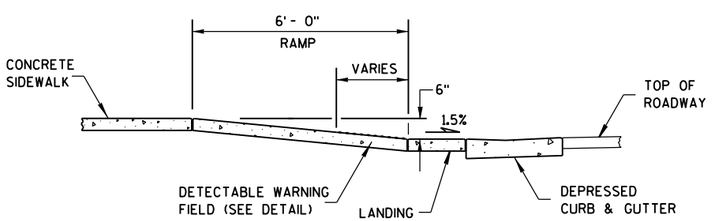
S.D.D. 8 D 5-15b



CURB RAMP TYPE 4A
PLAN VIEW



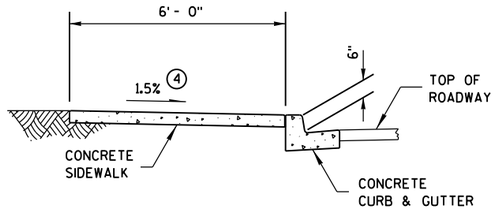
SECTION C-C FOR TYPE 4A



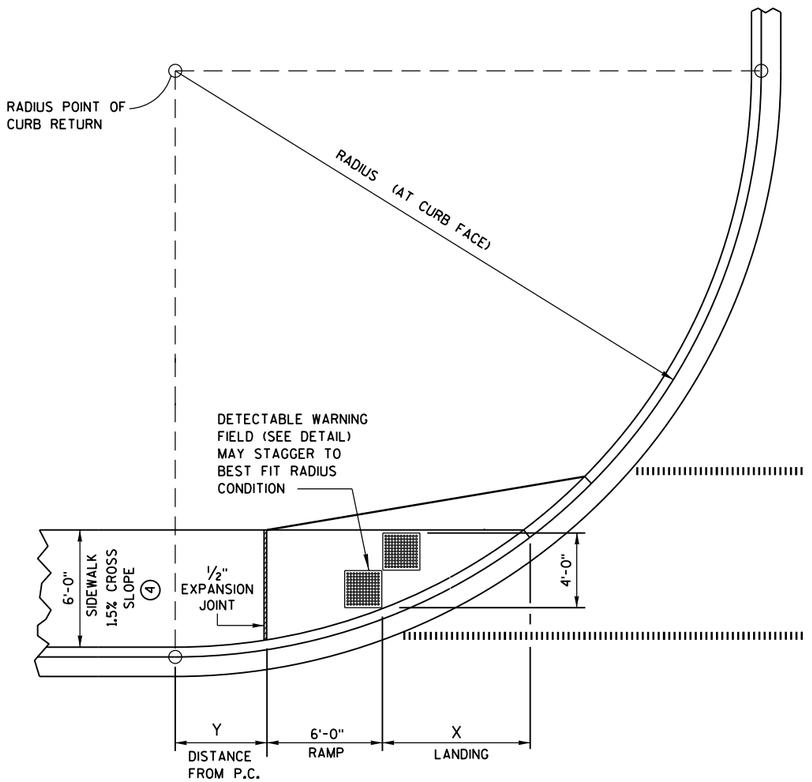
SECTION B-B FOR TYPE 4A

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW

GENERAL NOTES

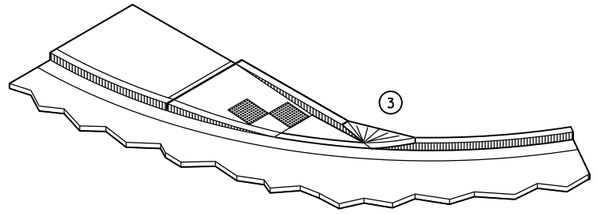
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

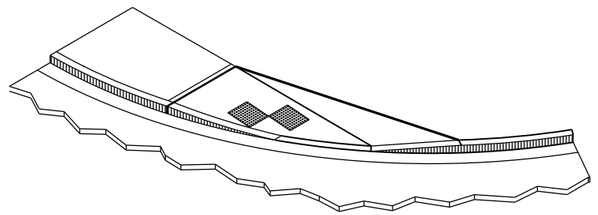
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

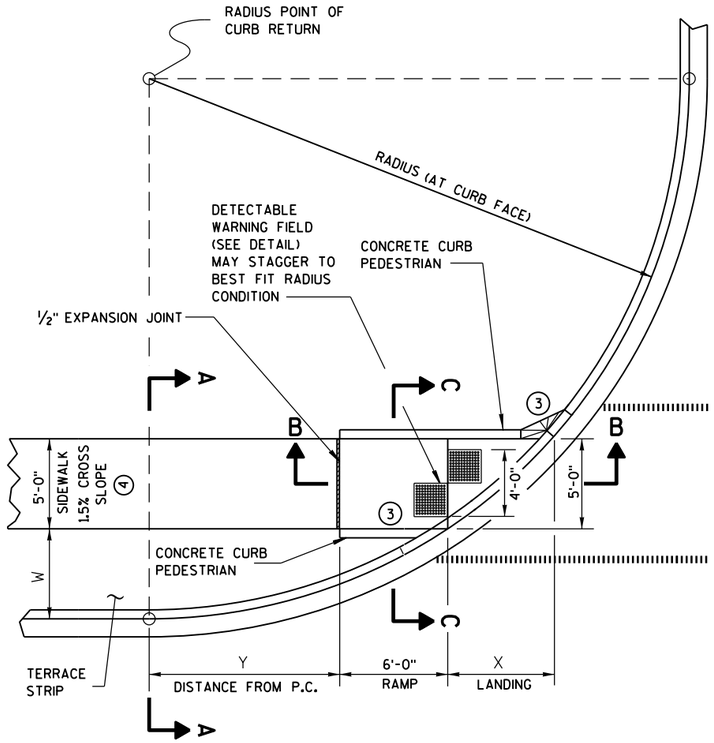
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 550

6

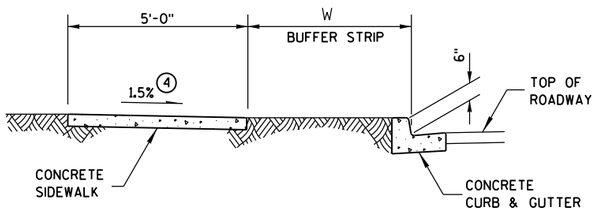
S.D.D. 8 D 5-15c

6

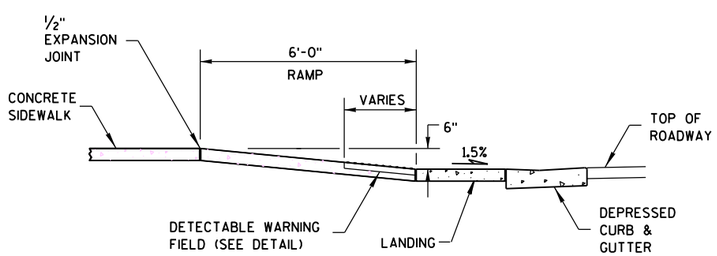
S.D.D. 8 D 5-15c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



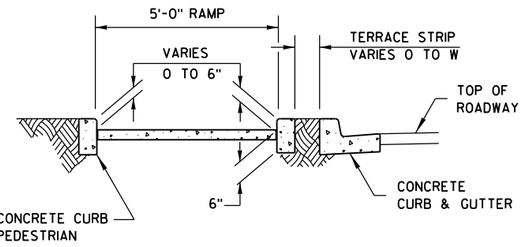
SECTION B-B FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION C-C FOR TYPE 4B

GENERAL NOTES

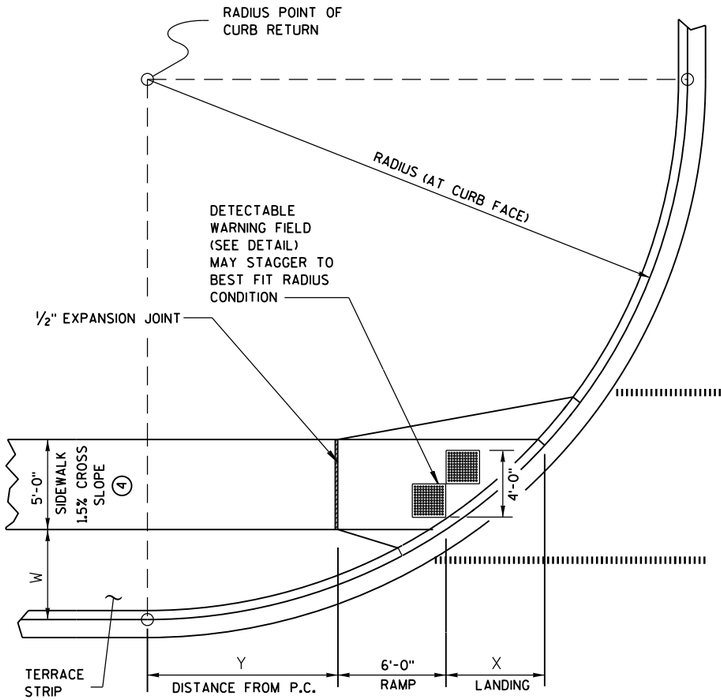
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

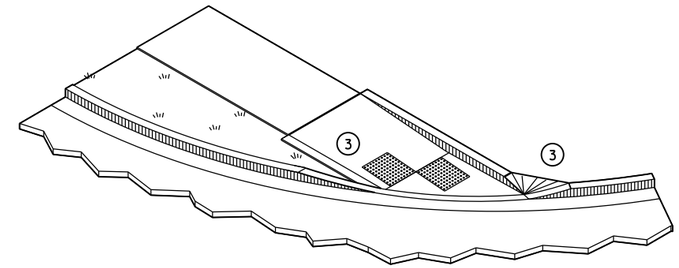
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

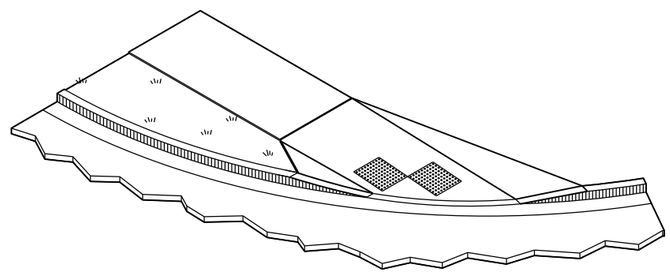
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



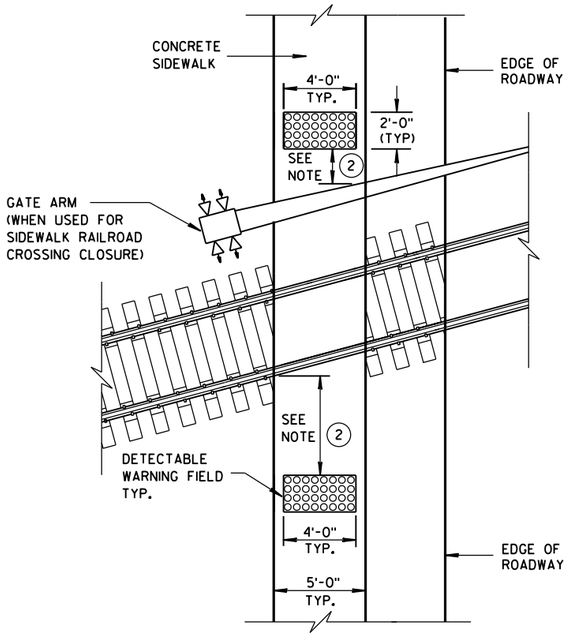
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

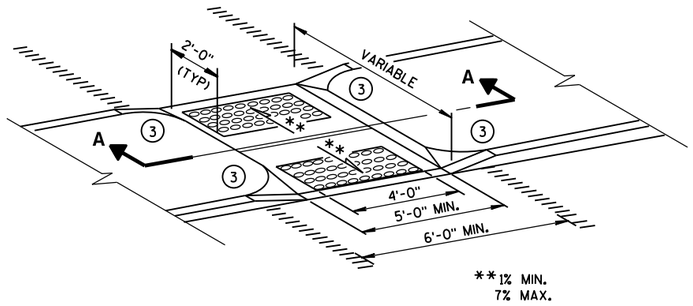
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-15d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

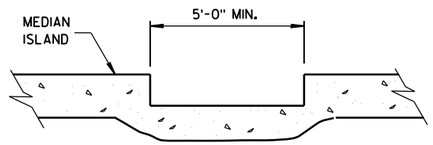
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

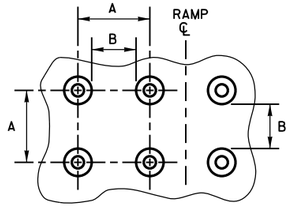
(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



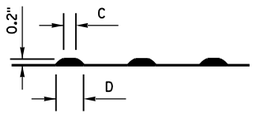
SECTION A-A



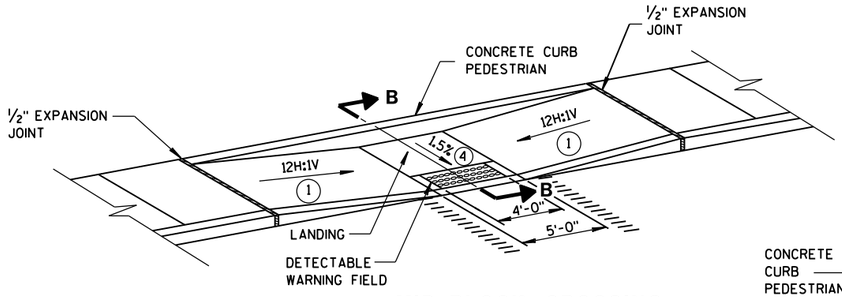
PLAN VIEW

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

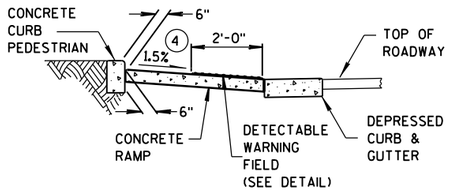
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



ELEVATION VIEW

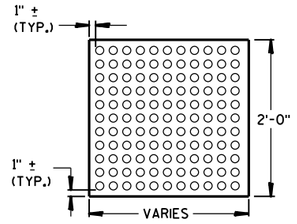


MID-BLOCK CROSSING
TYPE 7A



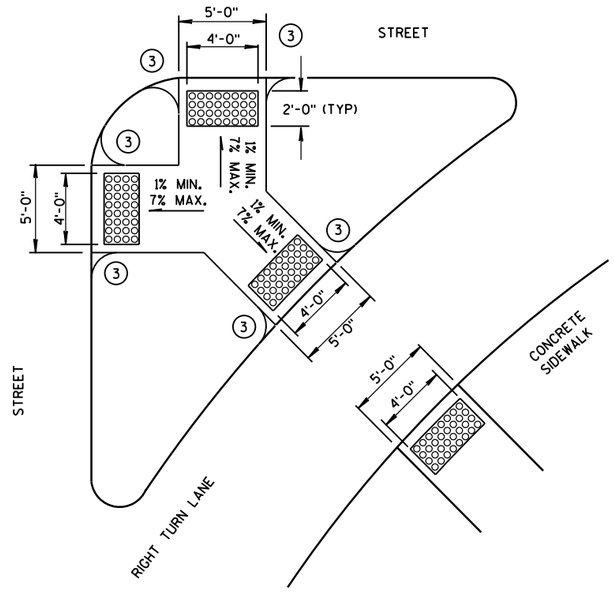
SECTION B-B

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

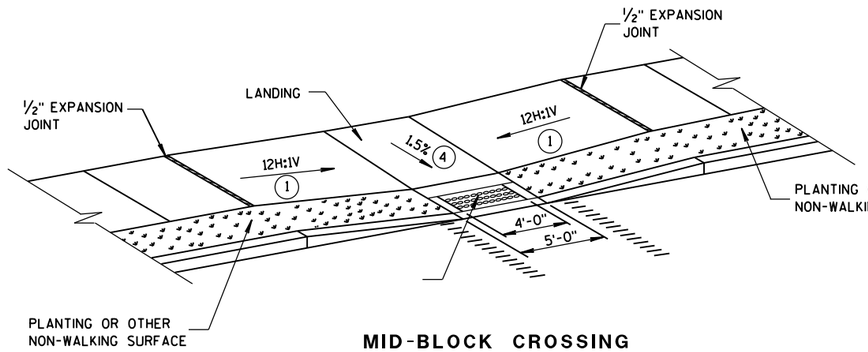


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

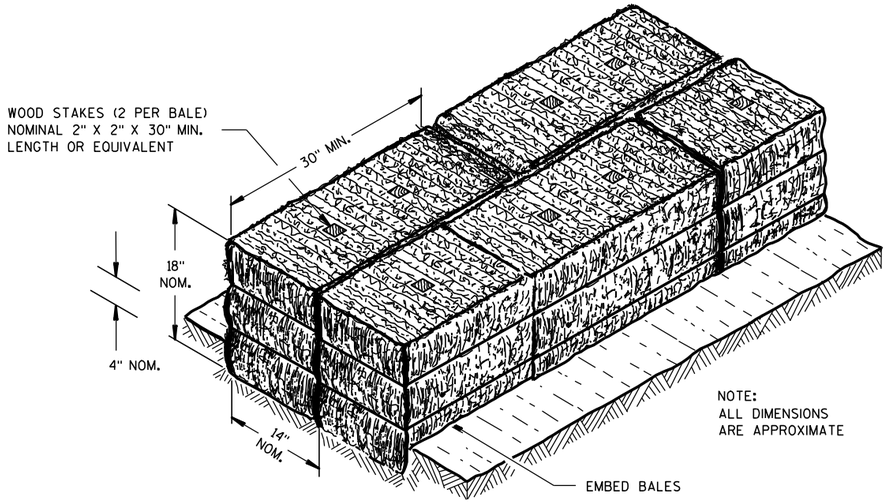
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

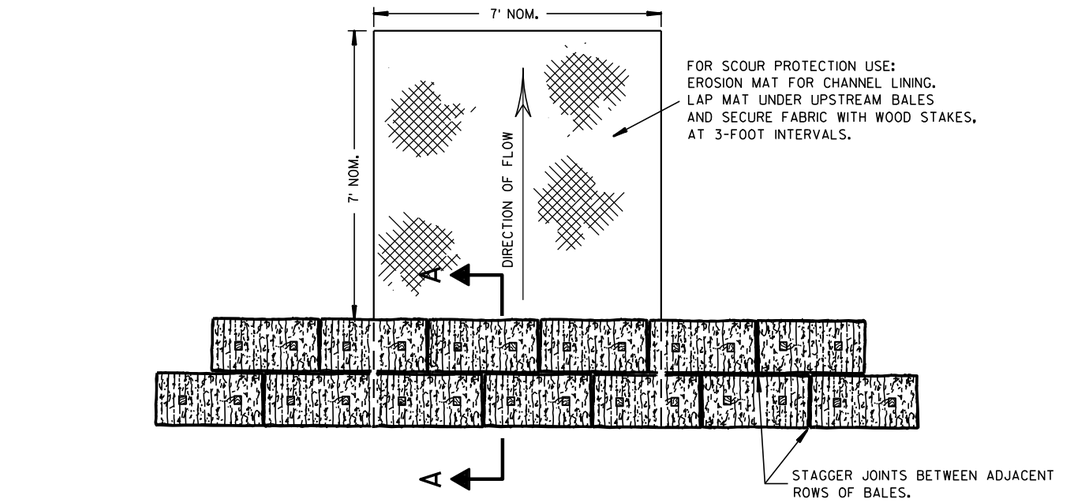
APPROVED
2-6-2013 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS [illegible] ENGINEER
FHWA

6

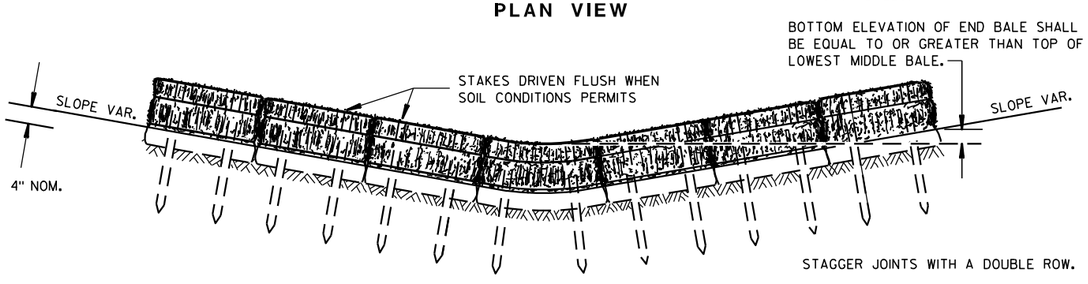
S.D.D. 8 D 5-15e



SECTION A-A



PLAN VIEW



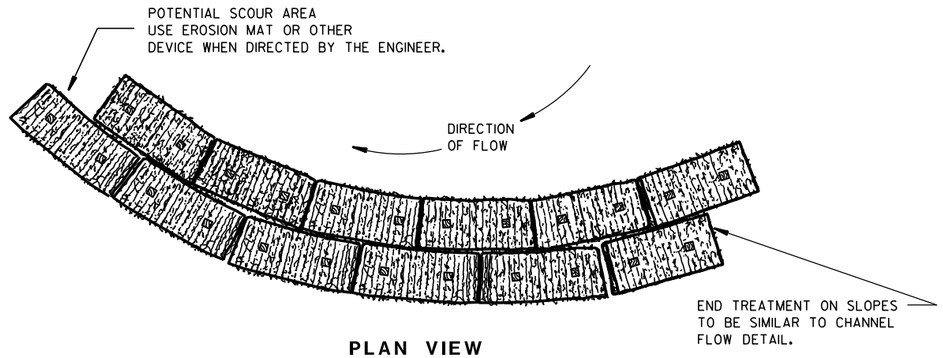
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

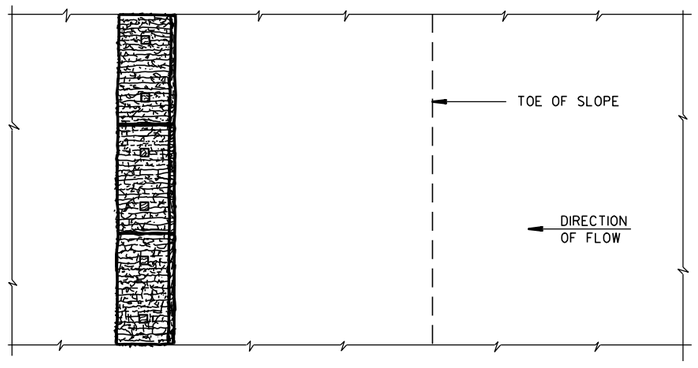
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

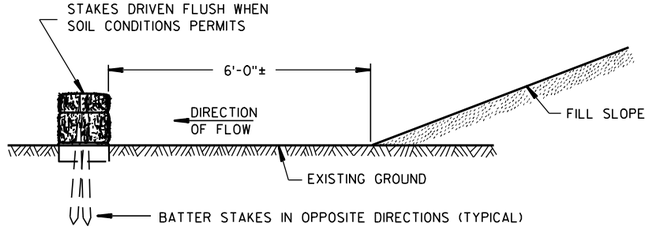


PLAN VIEW

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

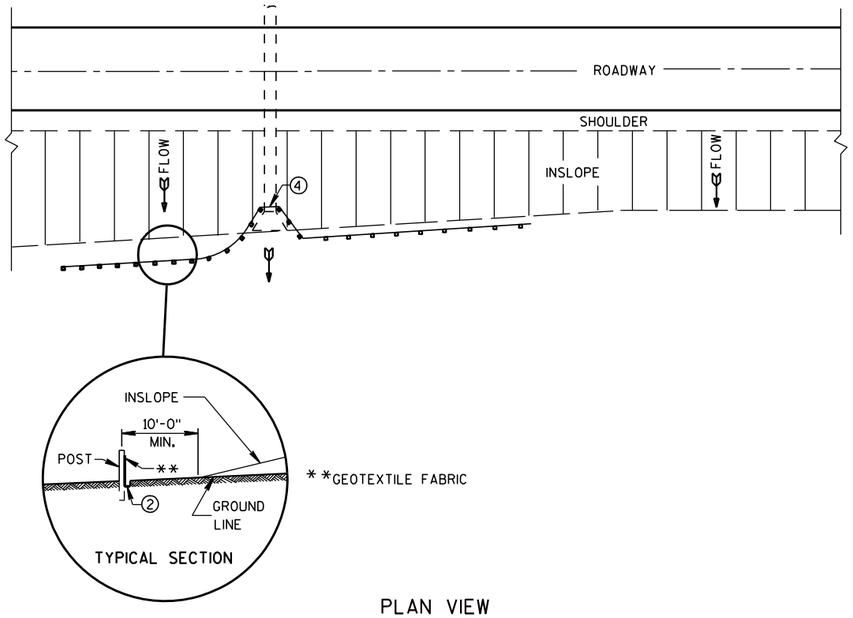
553

6

S.D.D. 8 E 8-3

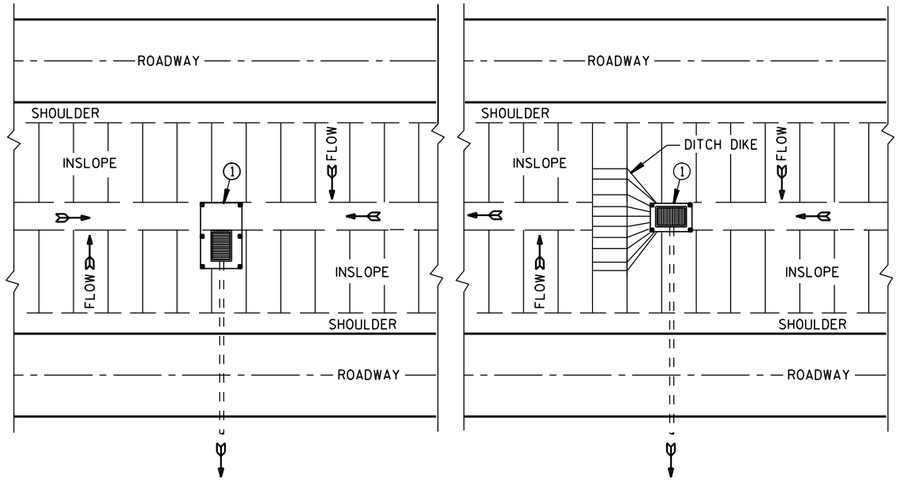
6

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.

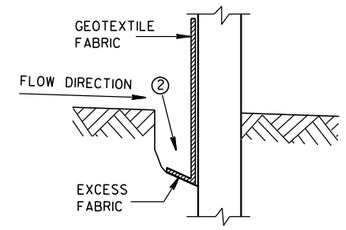
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

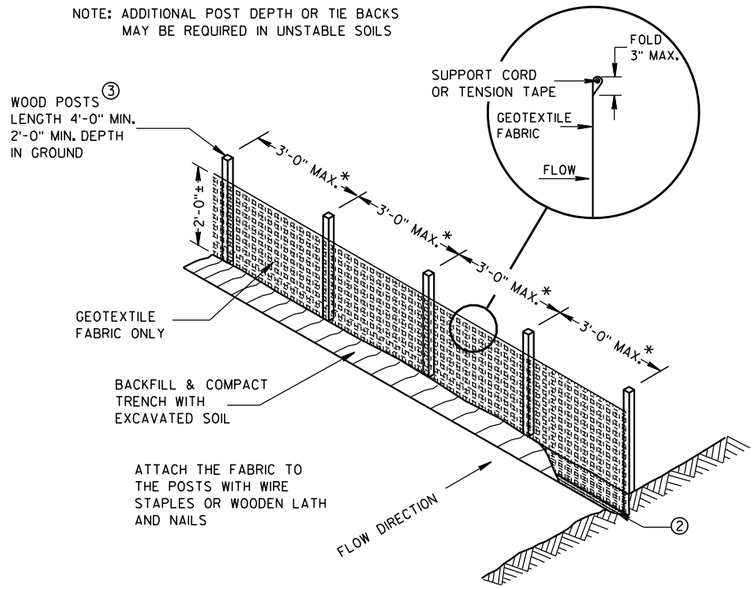
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

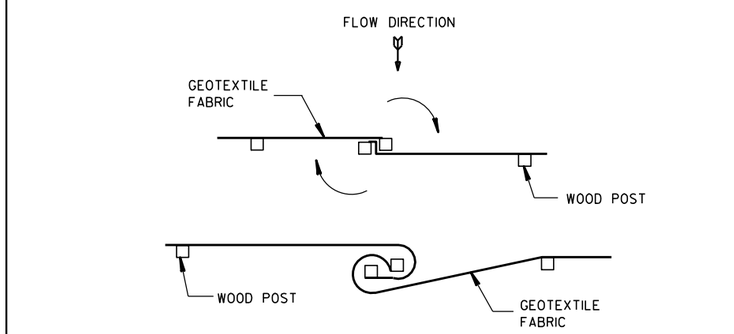
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



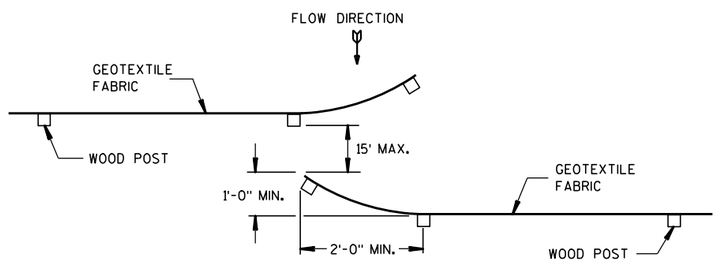
TRENCH DETAIL



SILT FENCE

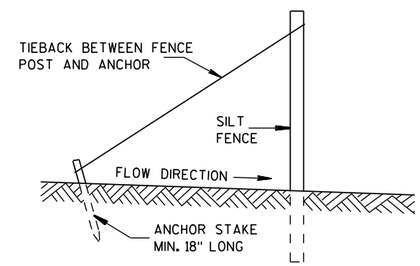


TWIST METHOD



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

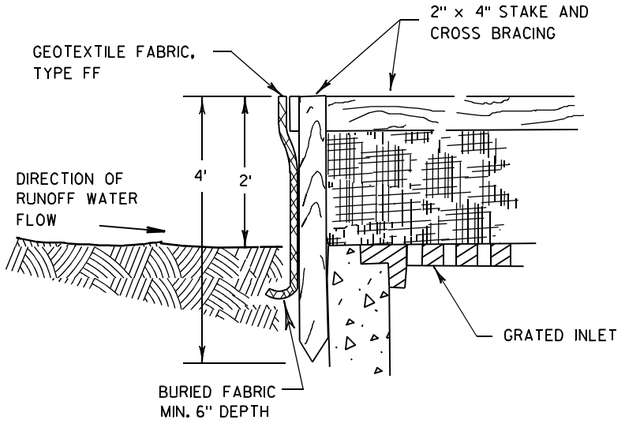
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

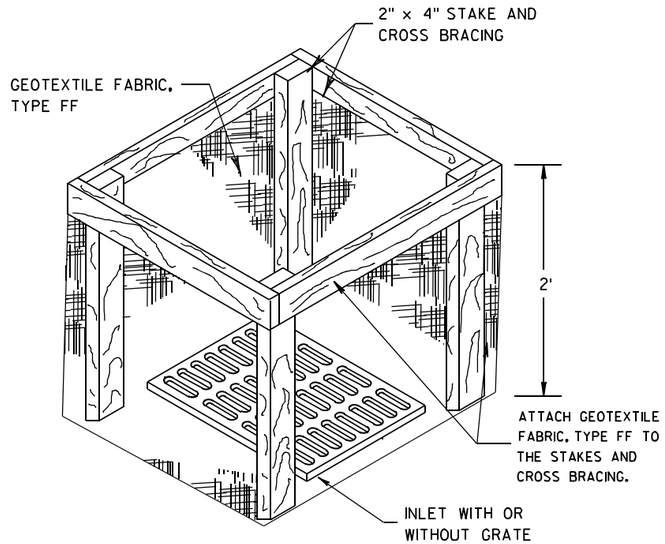
6

S.D.D. 8 E 9-6

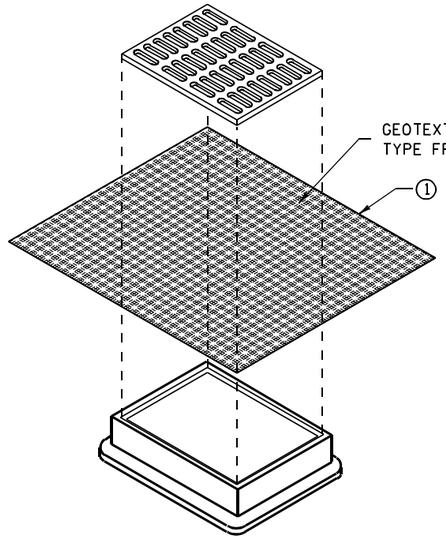
6

S.D.D. 8 E 9-6



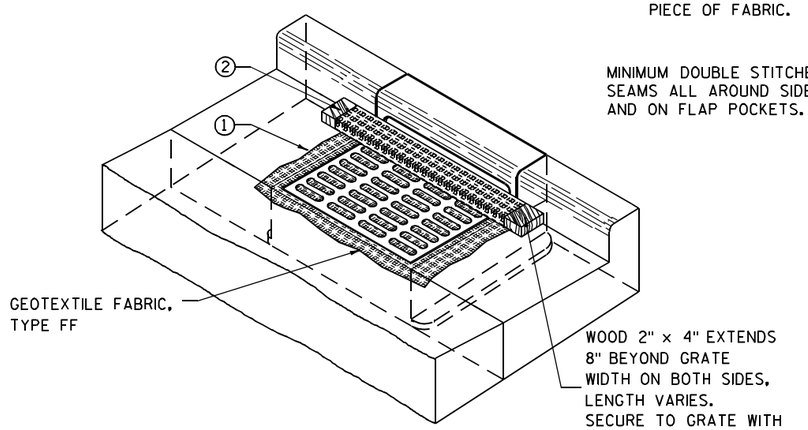


INLET PROTECTION, TYPE A

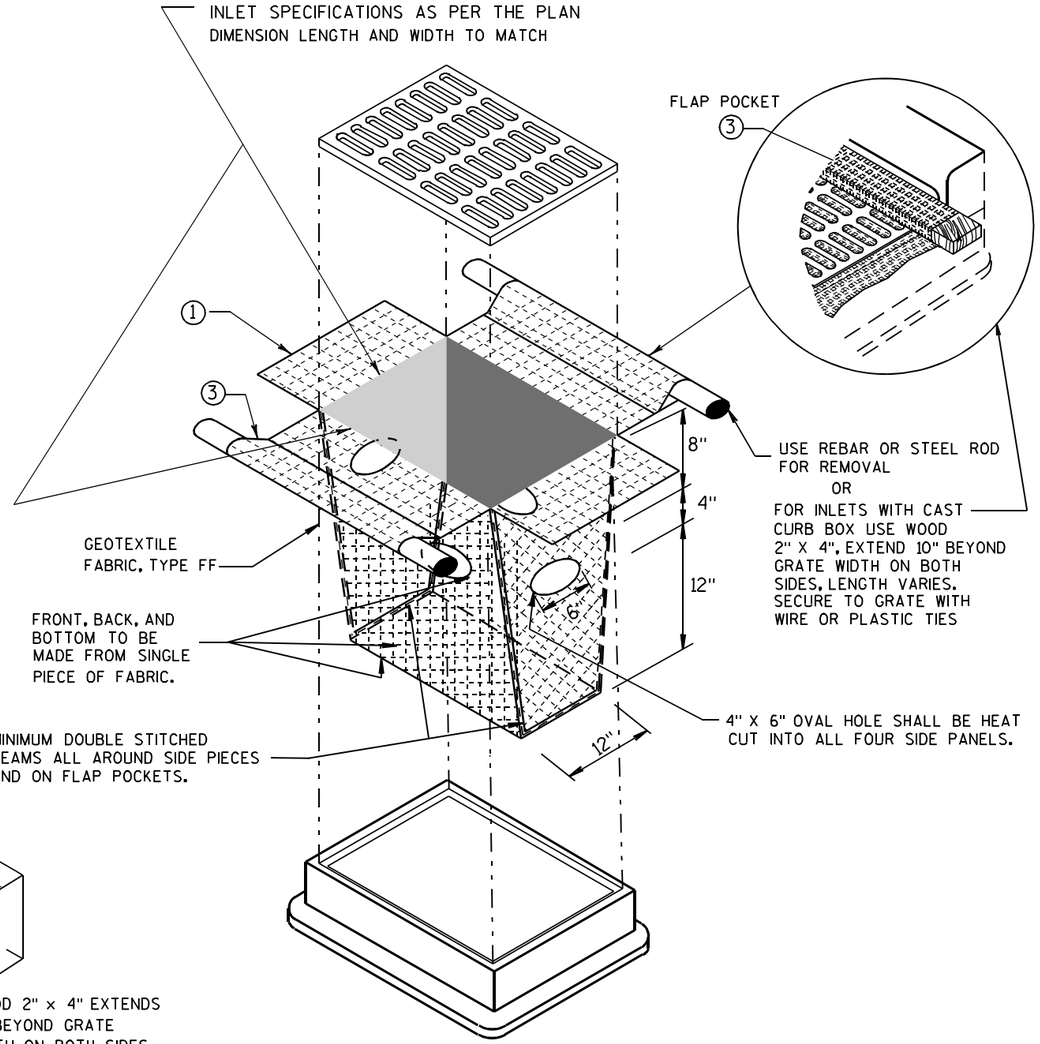


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2

METAL APRON ENDWALLS

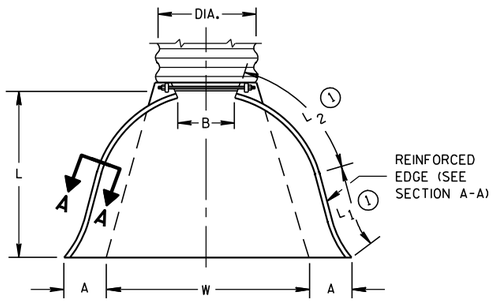
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

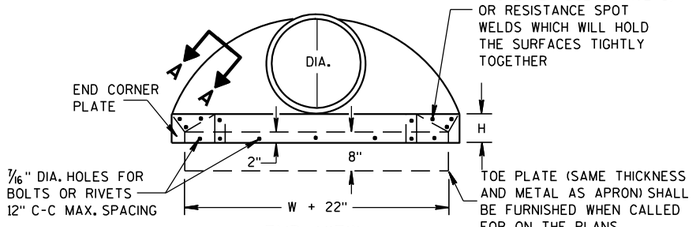
REINFORCED CONCRETE APRON ENDWALLS

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

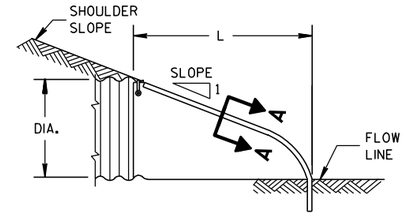
* MINIMUM
** MAXIMUM



PLAN VIEW

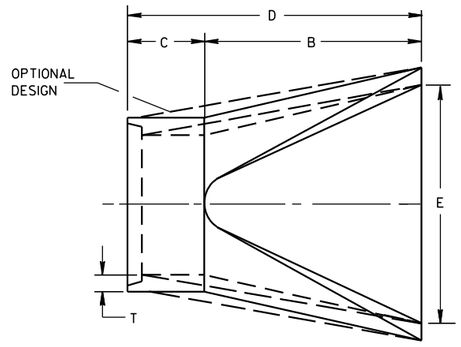


END VIEW

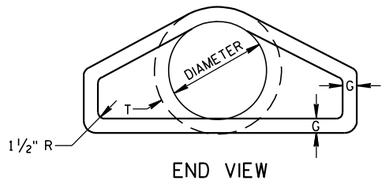


SIDE ELEVATION

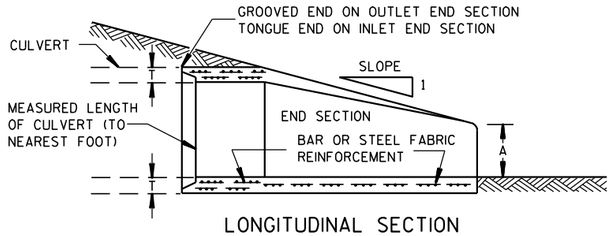
METAL ENDWALLS



PLAN

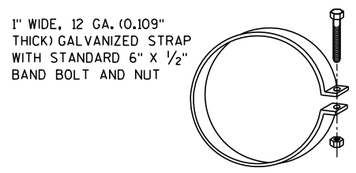


END VIEW



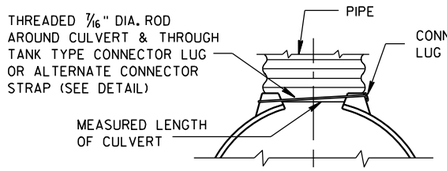
LONGITUDINAL SECTION

CONCRETE ENDWALLS

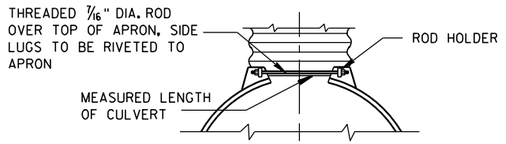


ALTERNATE FOR TYPE 1 CONNECTION

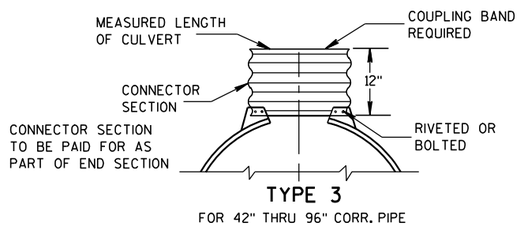
END SECTION CONNECTOR STRAP



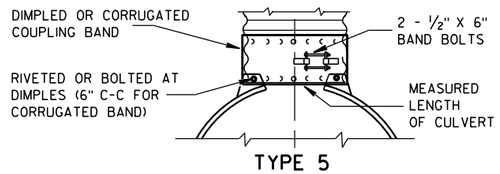
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

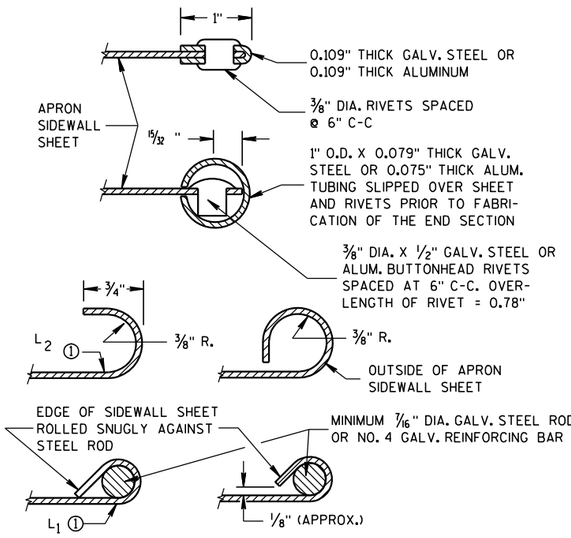
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

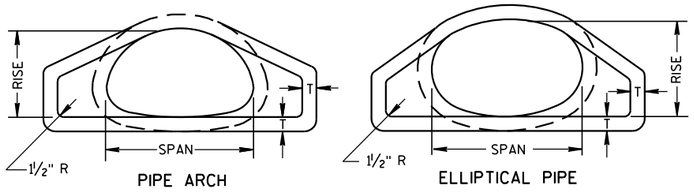
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

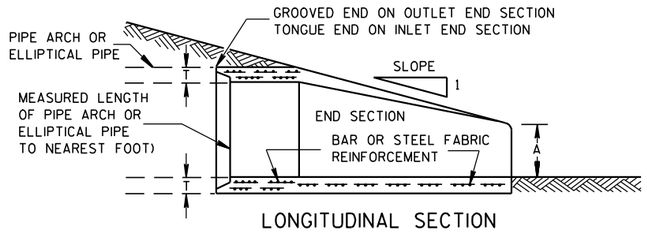
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

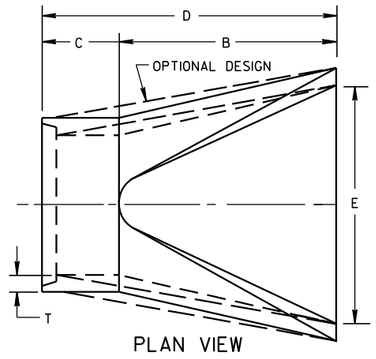
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



END VIEW

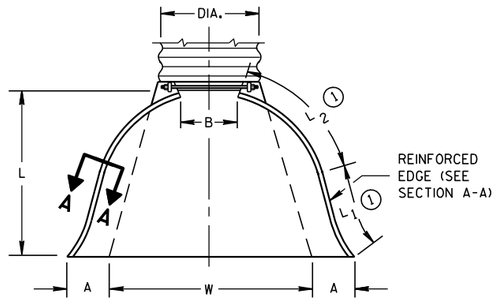


LONGITUDINAL SECTION

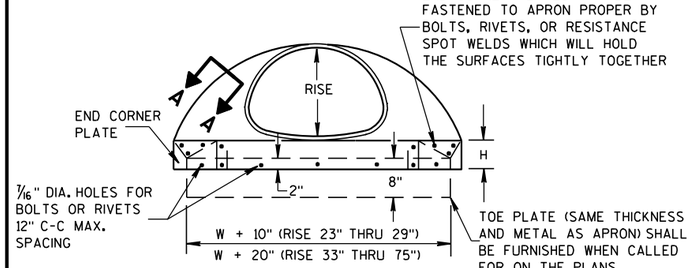


PLAN VIEW

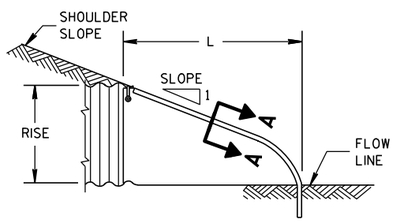
CONCRETE ENDWALLS



PLAN VIEW

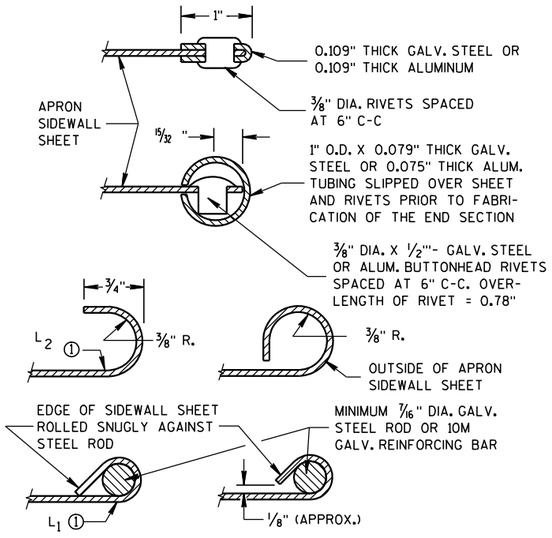


END VIEW



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

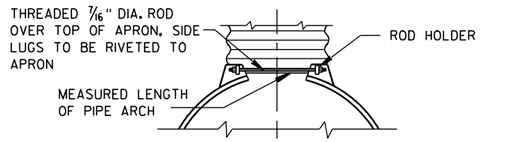
REINFORCED CONCRETE PIPE ARCH

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

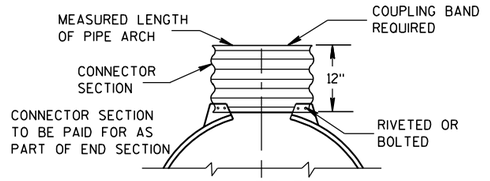
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



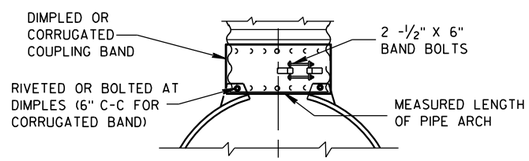
TYPE 2

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

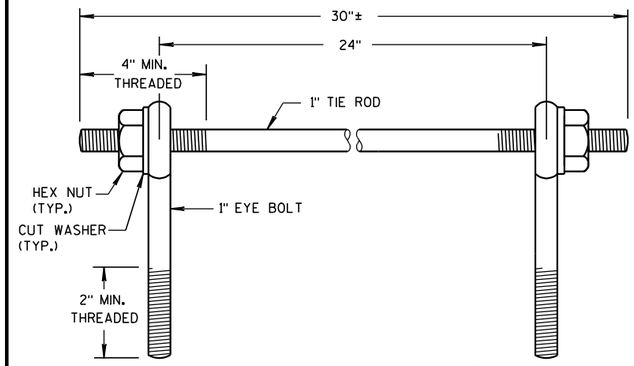
APPROVED

11/30/94 — DATE

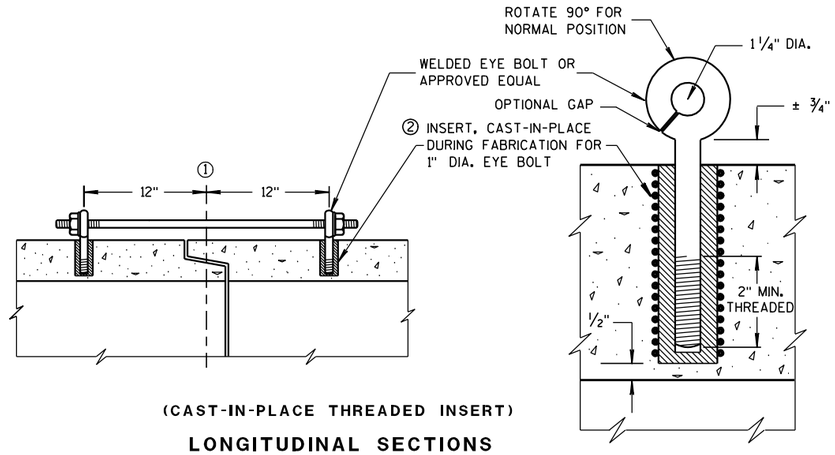
/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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.

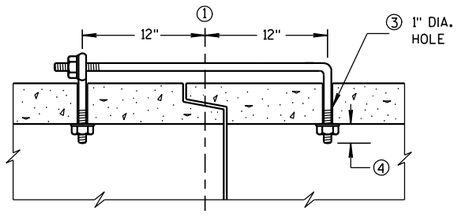
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

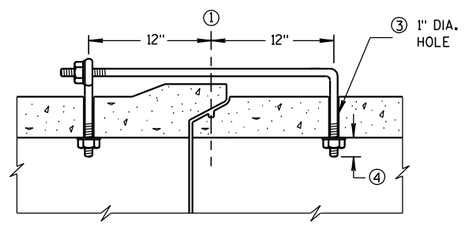
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

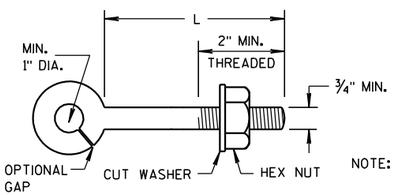


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

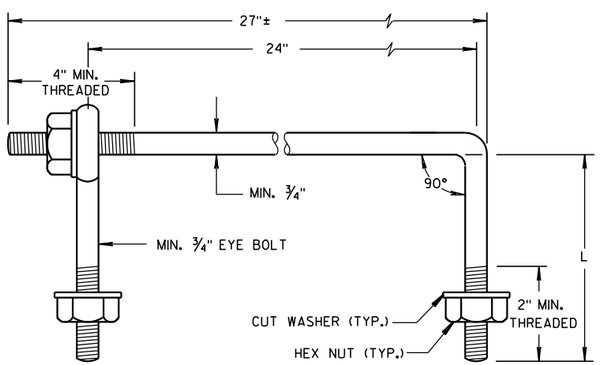
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

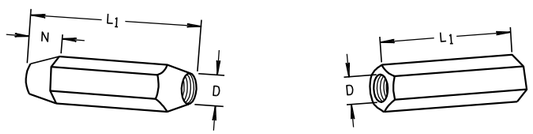
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

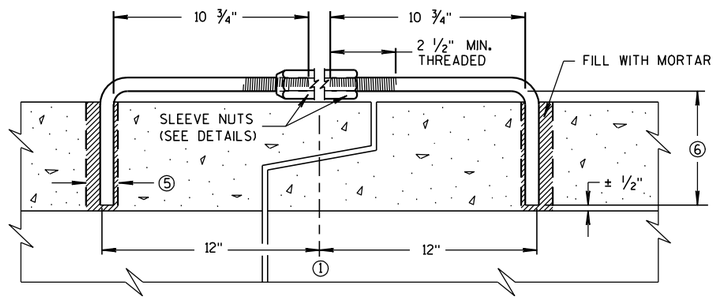
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

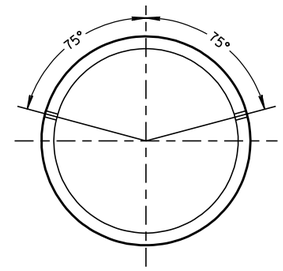
SLEEVE NUTS



LONGITUDINAL SECTION

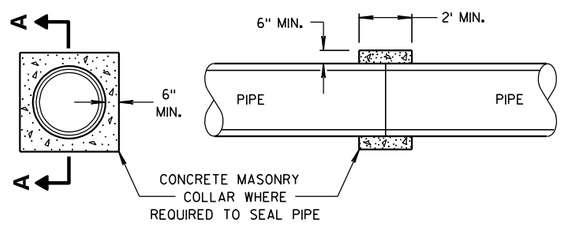
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

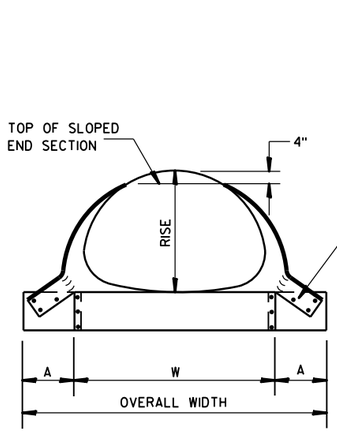
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
558
FHWA

6

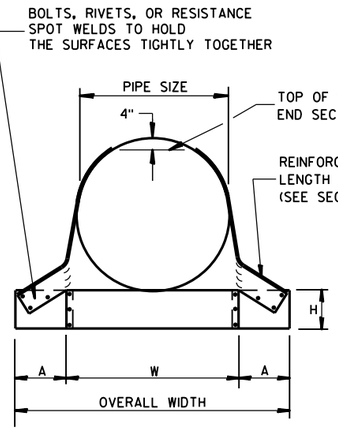
S.D.D. 8 F 4-7

6

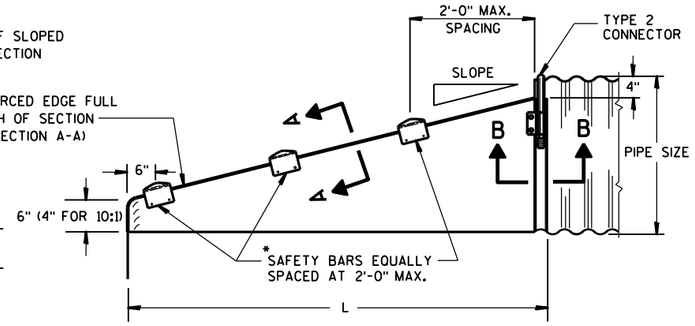
S.D.D. 8 F 4-7



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

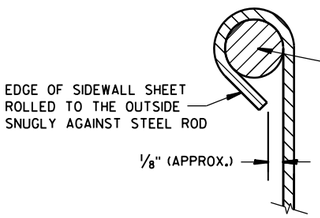
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

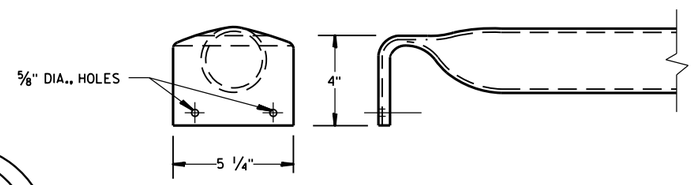
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	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.

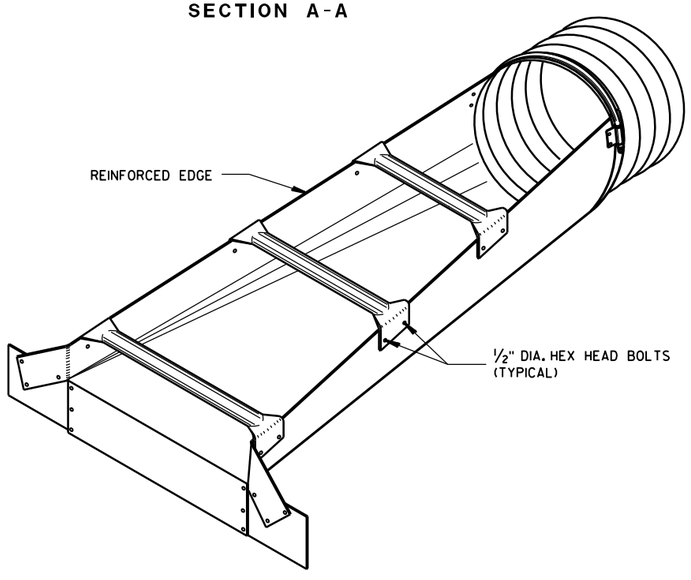


DETAIL OF SAFETY BAR

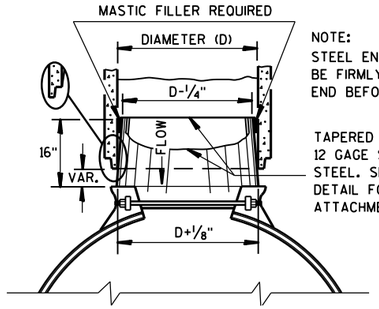
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

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	——	——

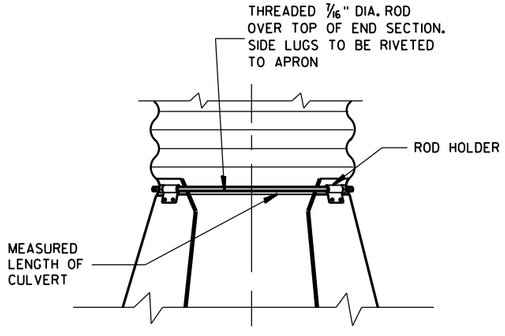
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



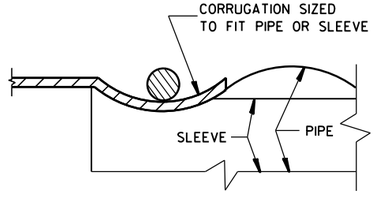
ISOMETRIC VIEW



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

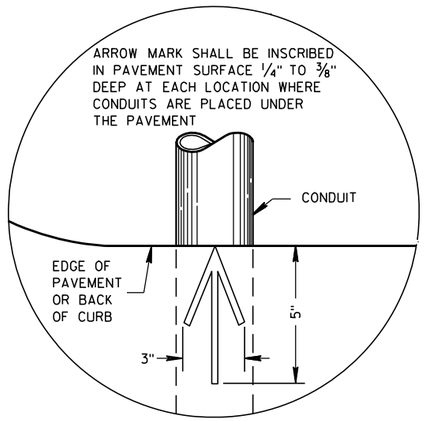
APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
559
FHWA

6

S.D.D. 8 F 7-5

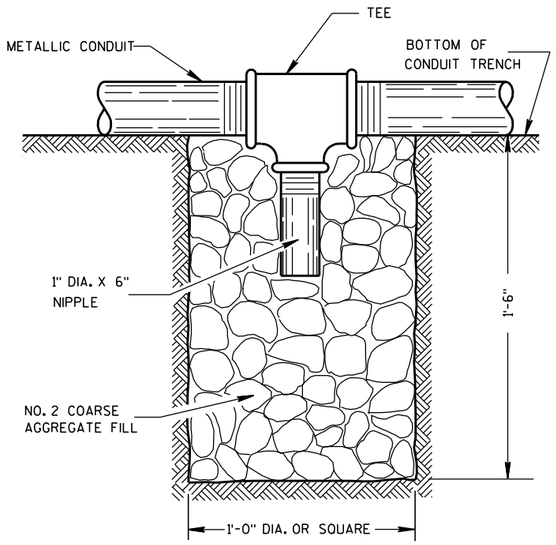
6

S.D.D. 8 F 7-5



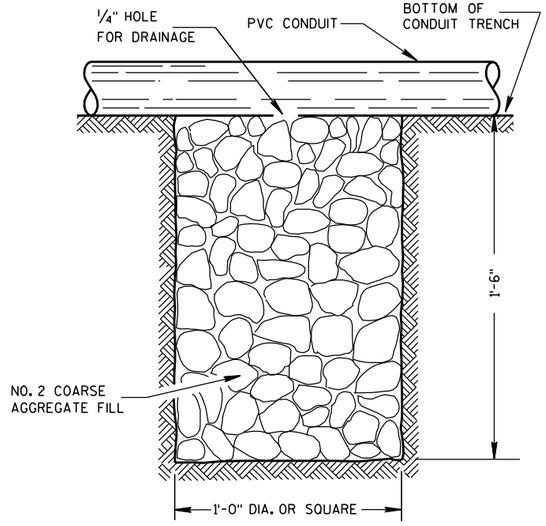
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

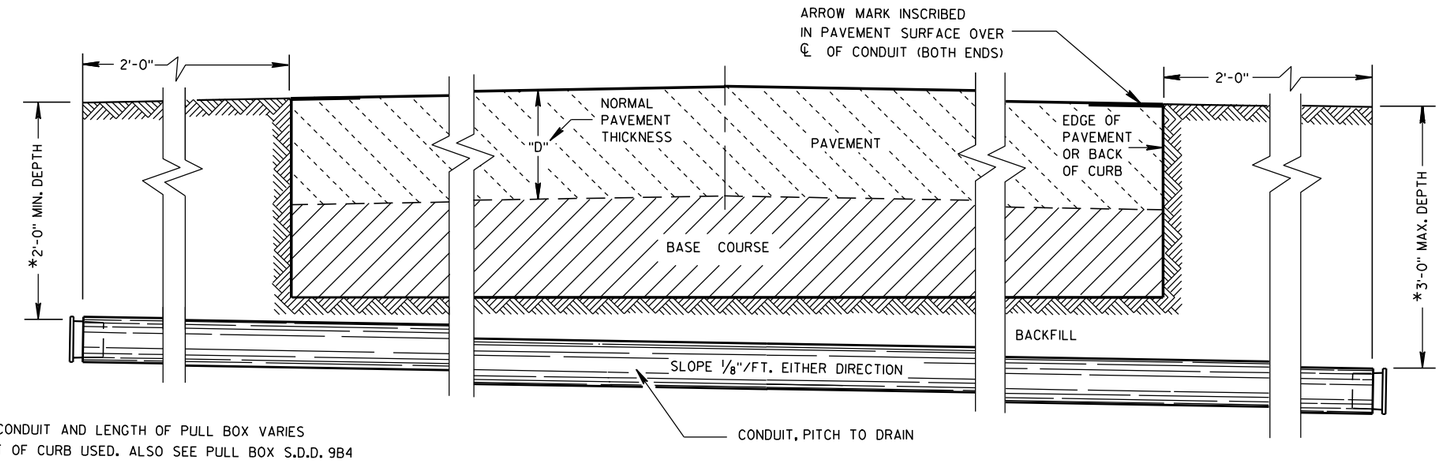
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/23/03 — DATE

/S/ Balu Aganthanarayanan — STATE ELECTRICAL ENGI 560 HWYS

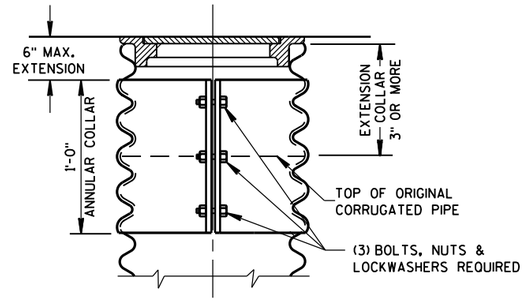
FHWA

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

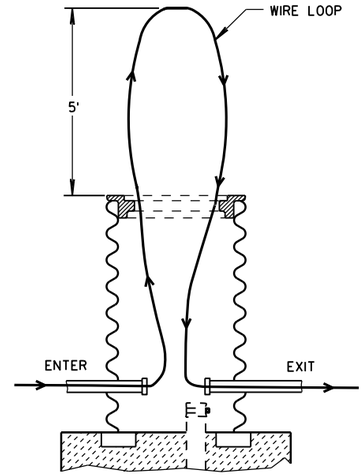
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

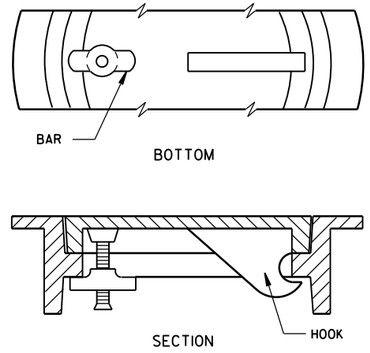
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

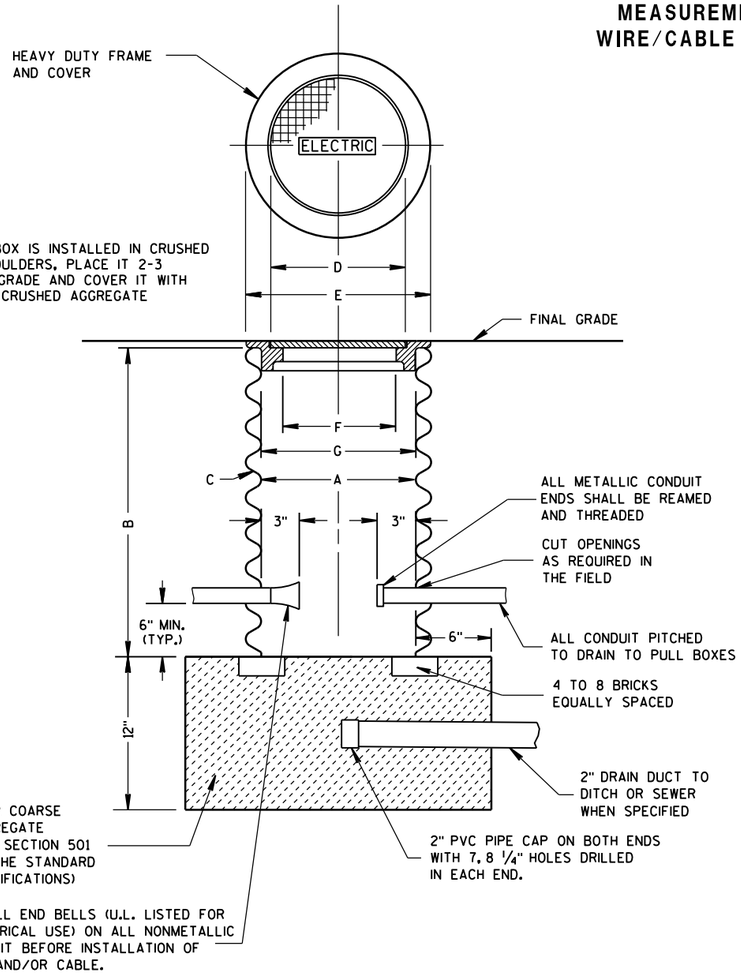


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



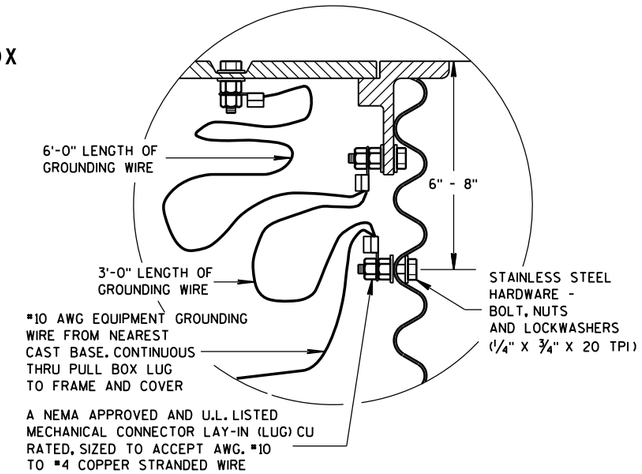
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

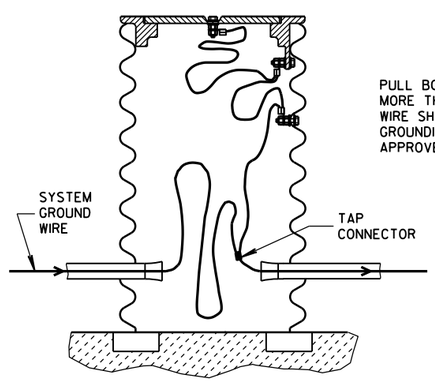


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

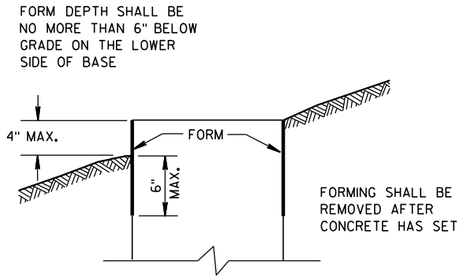
2-7-2013 — DATE

/S/ Ahmet Demirbilek — STATE ELECTRICAL

FHWA

6

S.D.D. 9 B 4-10



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

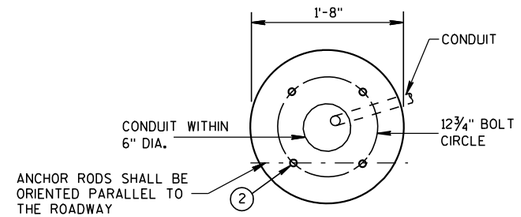
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

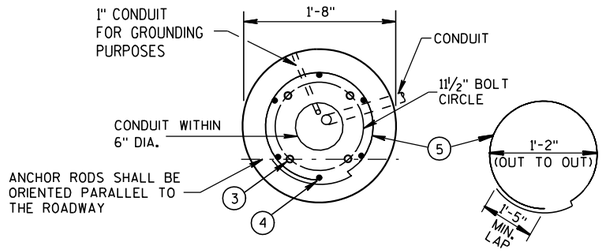
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

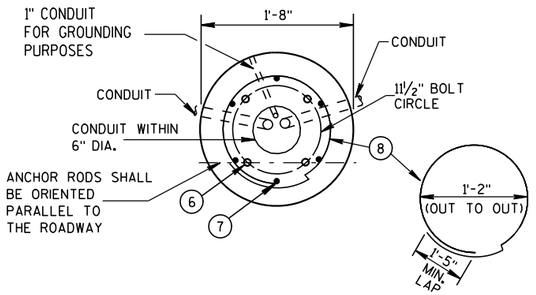
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



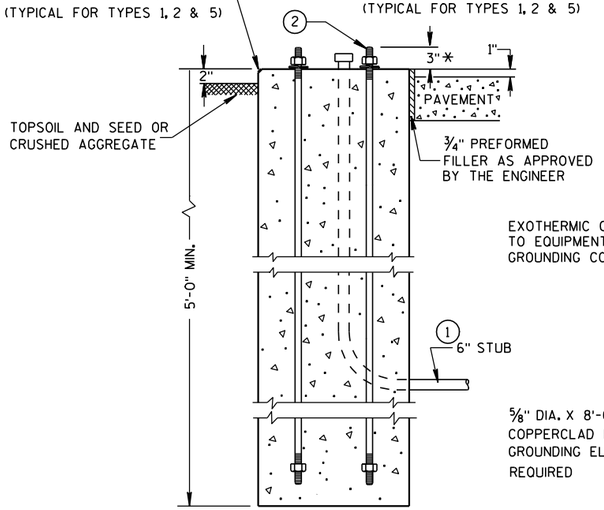




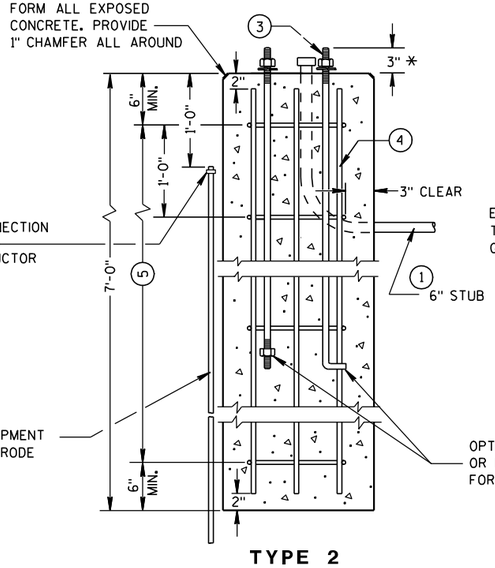
FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2 & 5)

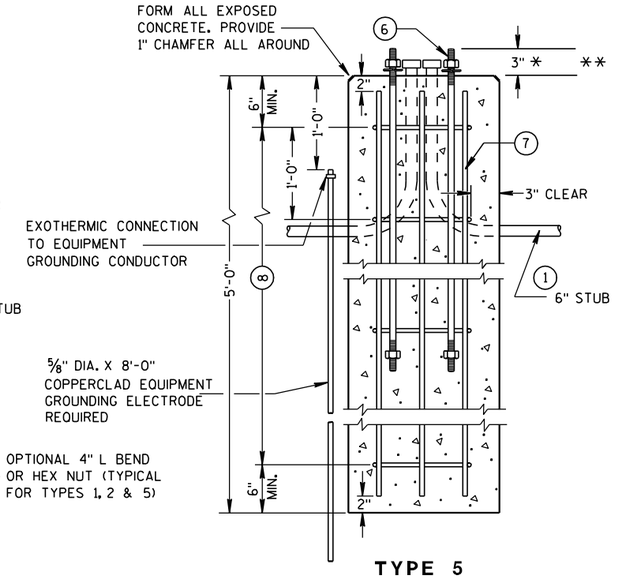
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2 & 5)



TYPE 1



TYPE 2



TYPE 5

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/3/10 — DATE
/S/ Joanna L. Rush — STATE ELECTRICAL ENGI 562 — HWYS
FHWA

6

S.D.D. 9 C 2-6

6

S.D.D. 9 C 2-6

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (92,000 YIELD) HEAVY HEX NUT AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

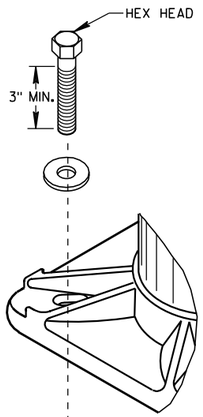
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

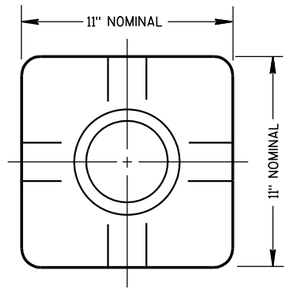
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

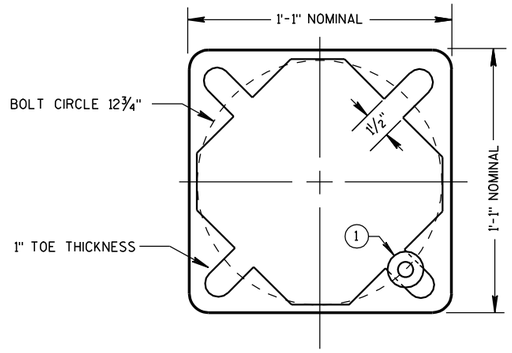
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1½", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

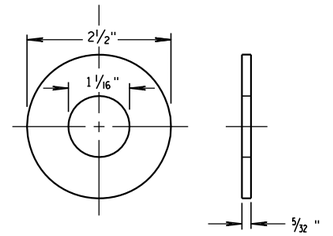




TOP VIEW
(PEDESTAL BASE)

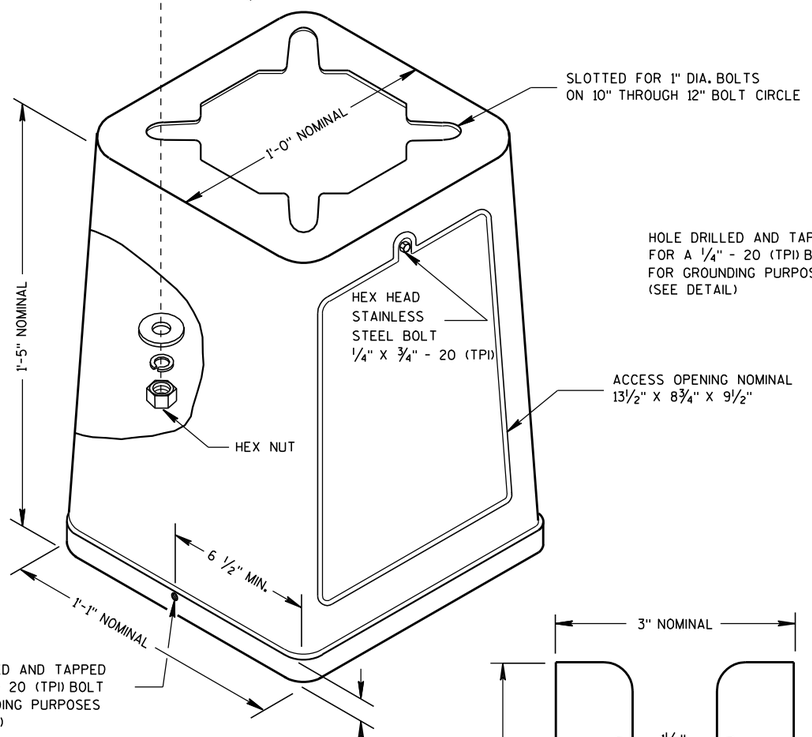


BOTTOM VIEW
(PEDESTAL BASE)

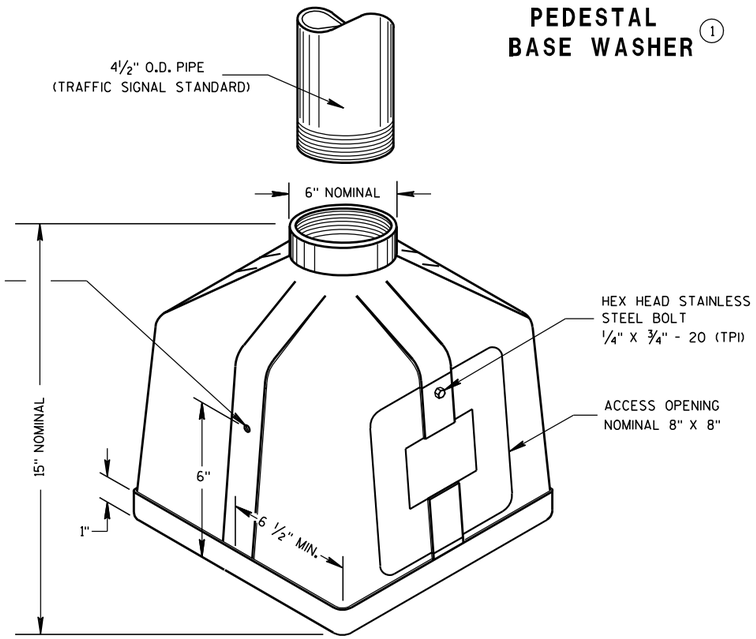


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

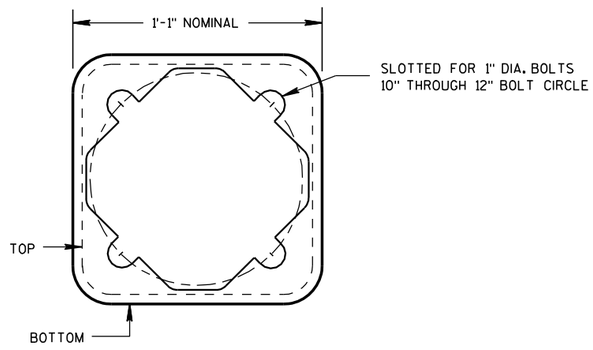


ISOMETRIC VIEW

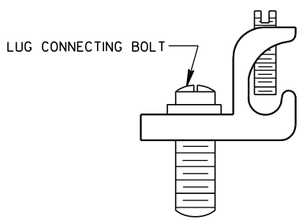


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

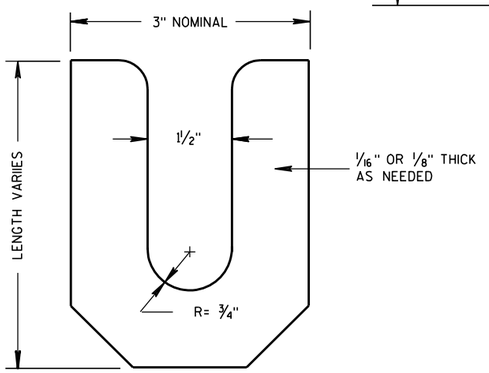


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/27/09
DATE

/S/ Joanna L. Rich
STATE ELECTRICAL ENGI 563 HWYS

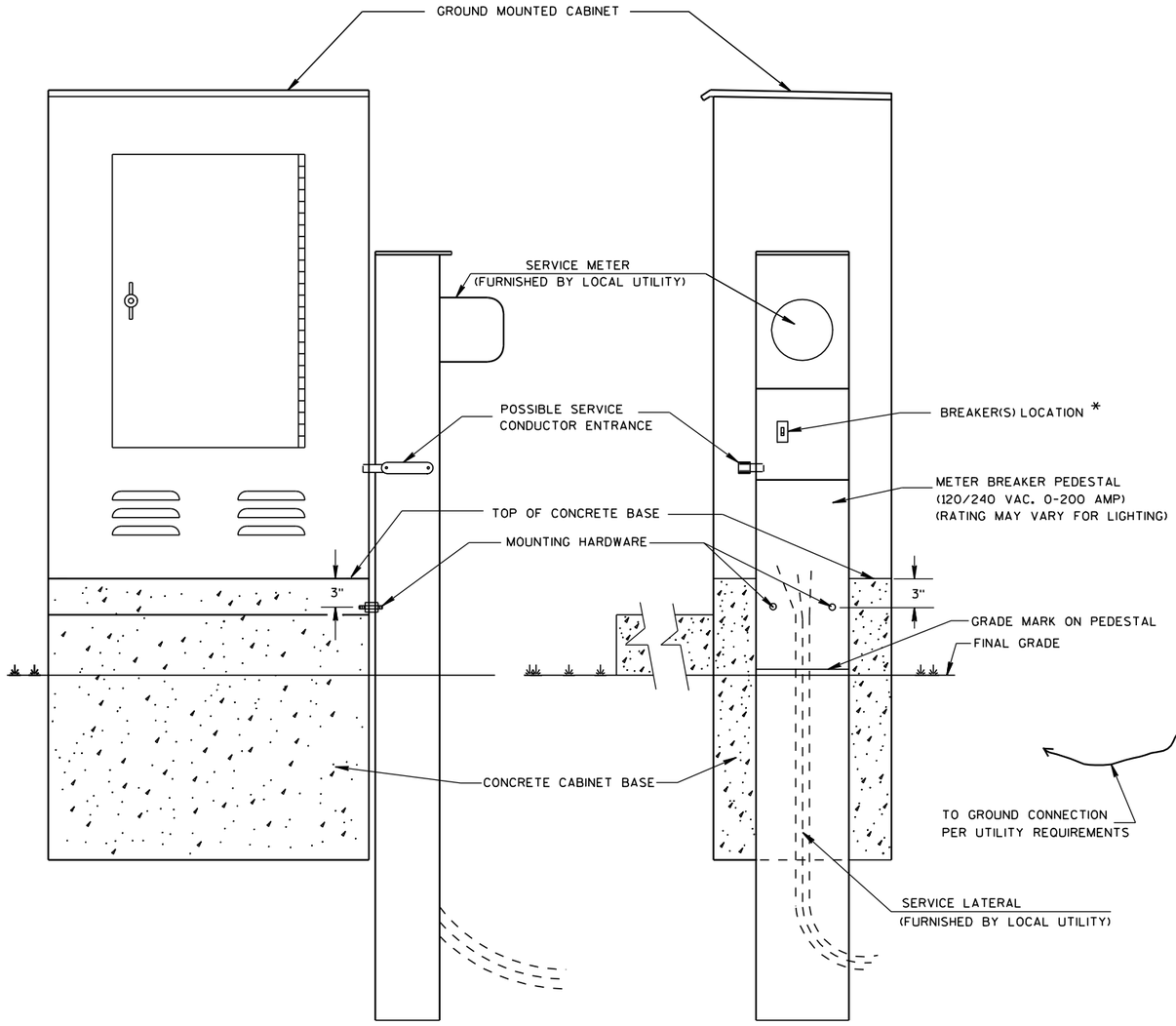
FHWA

6

S.D.D. 9 C 3-3

6

S.D.D. 9 C 3-3



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/27/09 — DATE

/S/ Joanna L. Bush — STATE ELECTRICAL ENGI

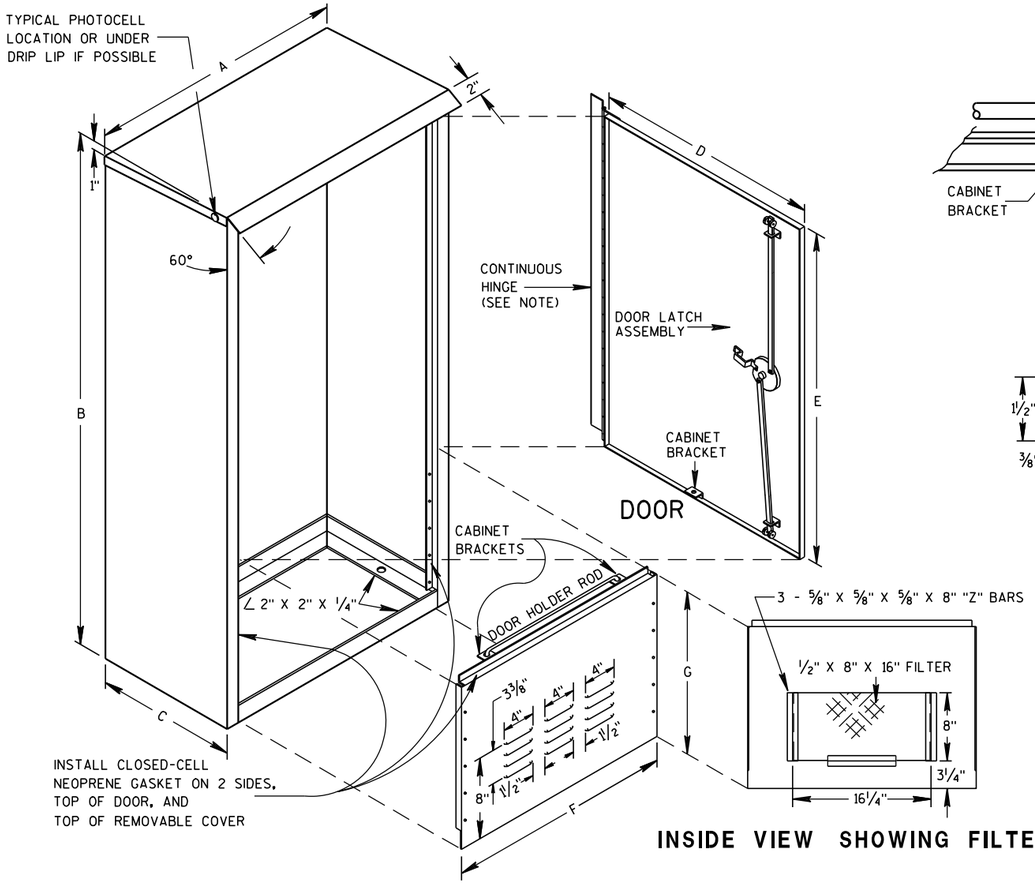
564

HWYS

FHWA

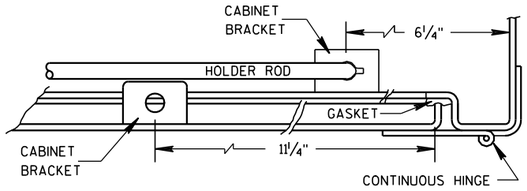
6

S.D.D. 9 D 1-4

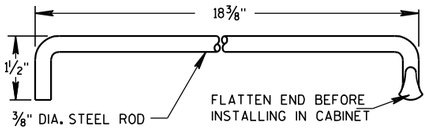


REMOVABLE COVER

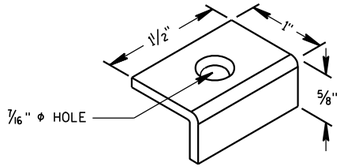
INSIDE VIEW SHOWING FILTER



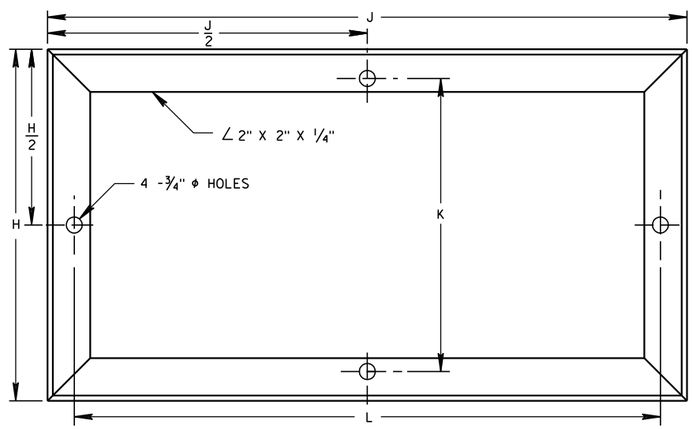
HINGE & DOOR HOLDER



HOLDER ROD



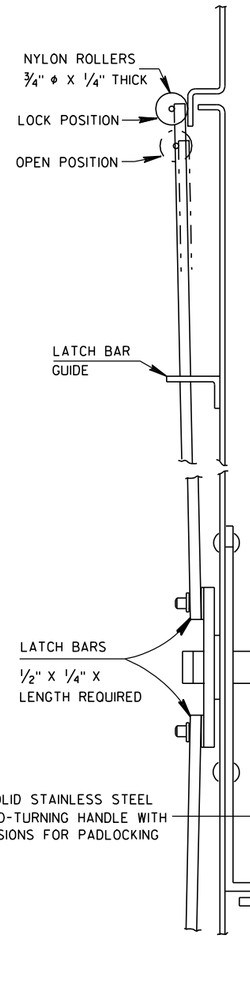
CABINET BRACKET



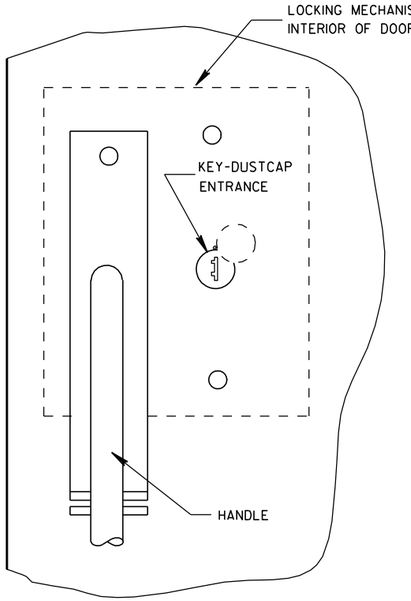
MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

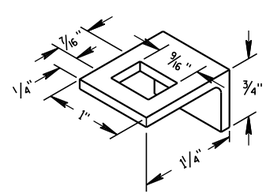


SIDE VIEW



FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

GENERAL NOTES

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

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

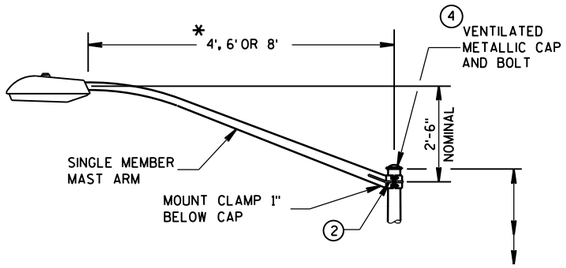
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.

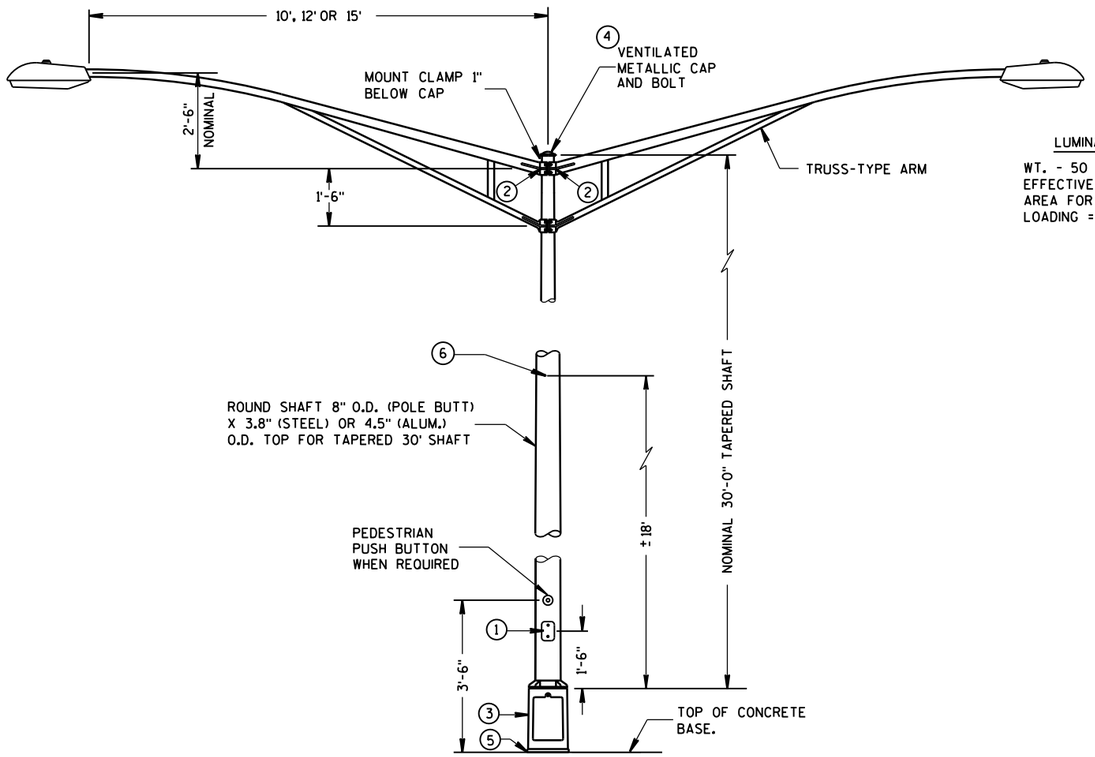
SIGNAL OR LIGHTING CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

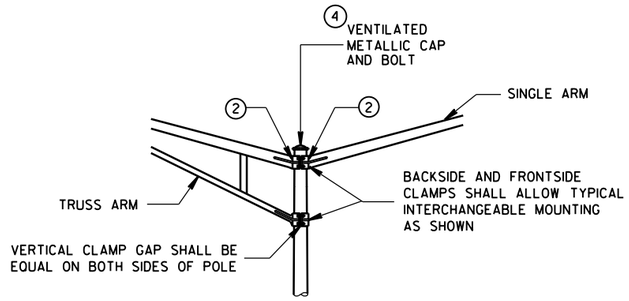
APPROVED
10/21/96 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGI
565
HWYS
FHWA

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

6

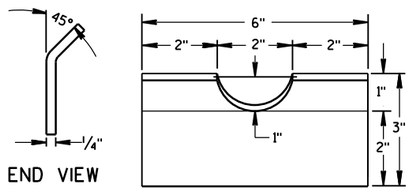
S.D.D. 9 E 1-12d

POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

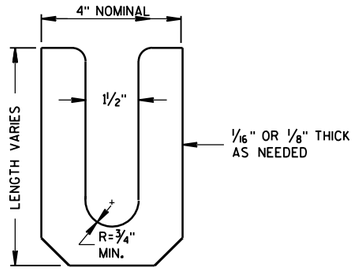
S.D.D. 9 E 1-12d



FRONT VIEW

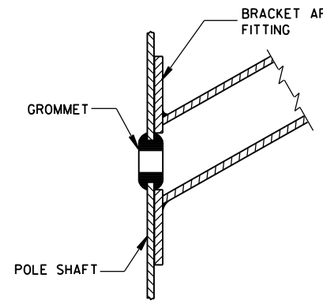
RECTANGULAR CLAMP SHIM

(4 TO A SET)

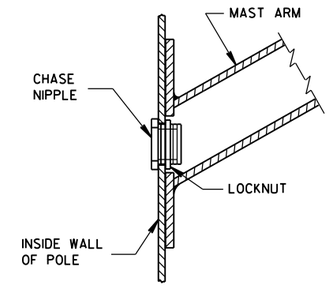


LEVELING SHIM (15)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) OUTSIDE SHIM DIAMETER - (4.5" O.D. FOR LUMINAIRE MAST ARM)
(6.625" O.D. FOR TROMBONE MAST ARM)

(14) VARIABLE SHIM THICKNESS - (0.10", 0.25", 0.35", 0.53" OR 0.70")

SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 0.25", 0.35", 0.53" OR 0.70".

SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 0.10", 0.25" OR 0.35".

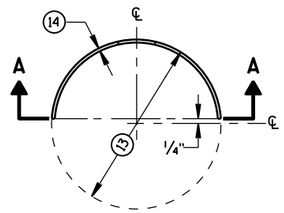
SHIM MATERIAL SHALL BE ALUMINUM ALLOY.

SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 1/4" HIGH AND LEGIBLE.

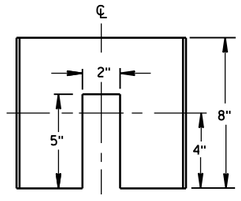
THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

(15) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



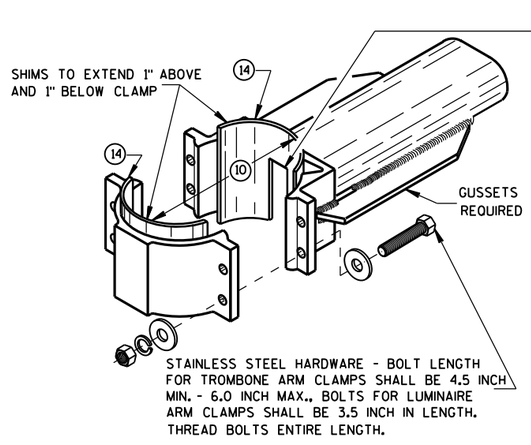
PLAN VIEW



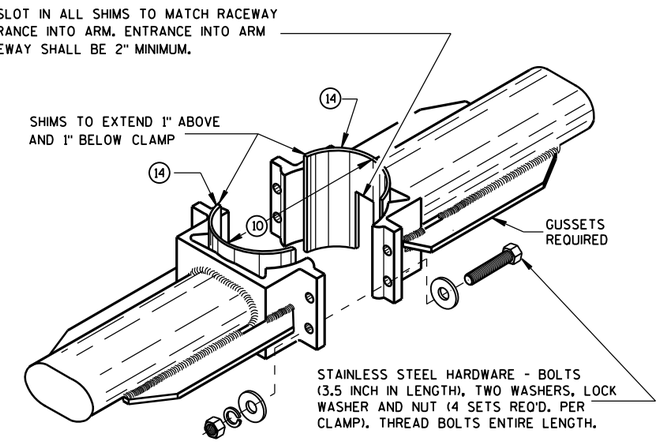
SECTION A-A

CIRCULAR CLAMP SHIM

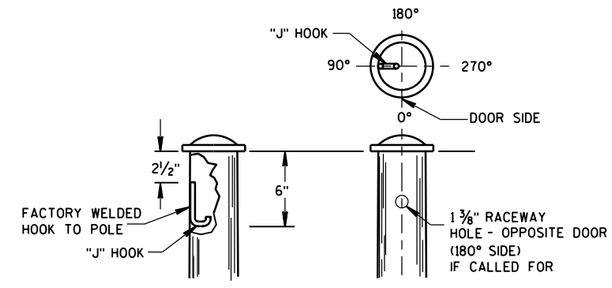
(2 TO A SET)



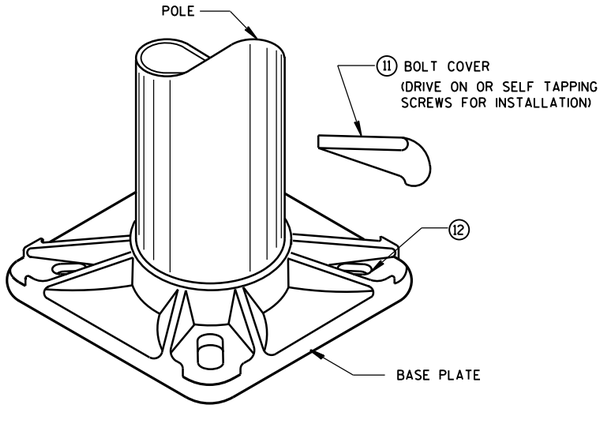
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



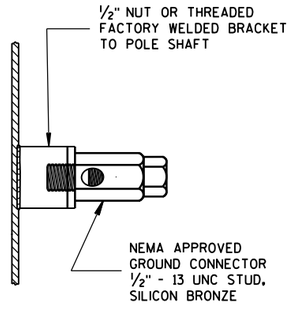
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

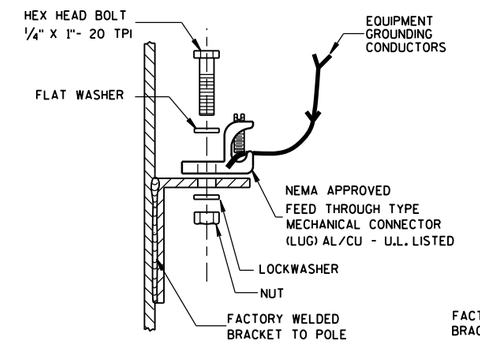


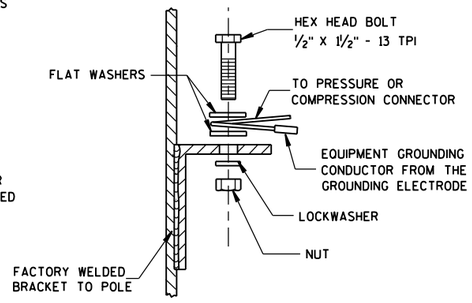
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

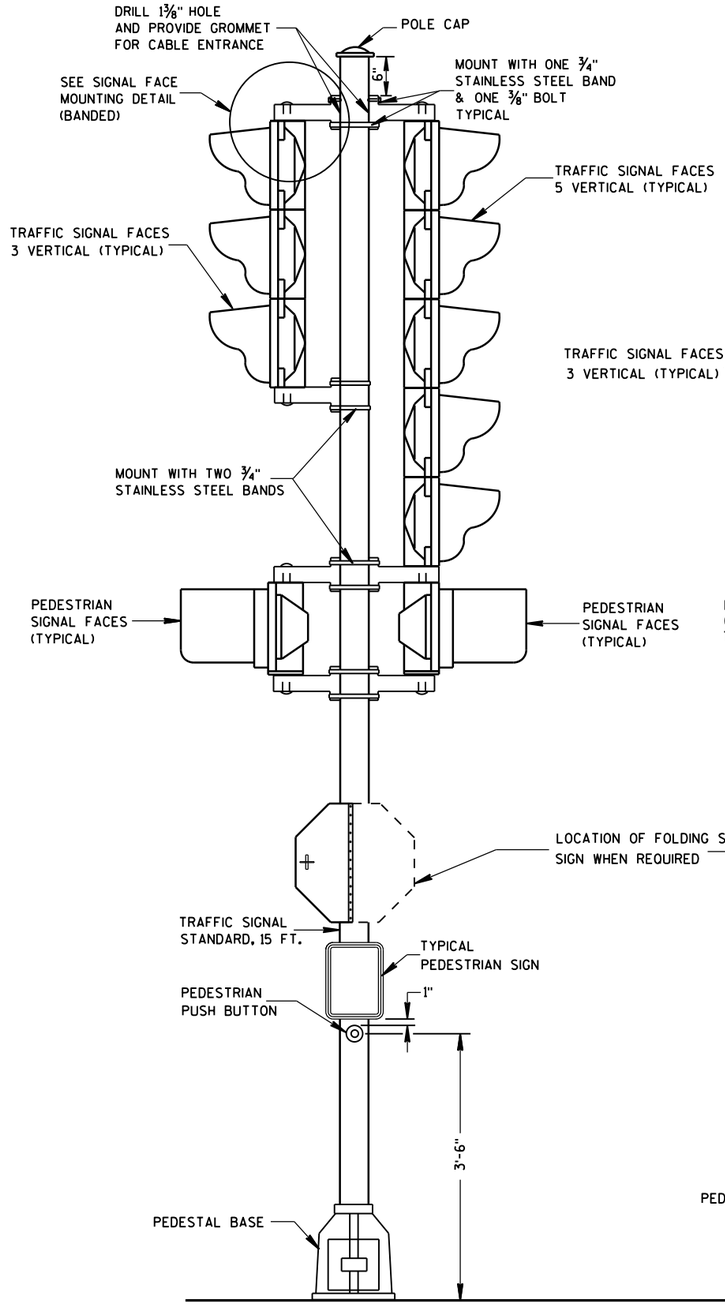
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTINGS

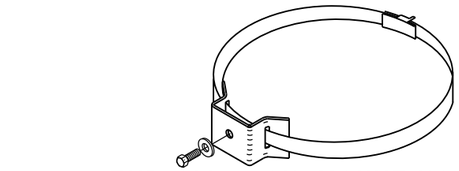
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/7/2013
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 567
FHWA

6
S.D.D. 9 E 1-12g

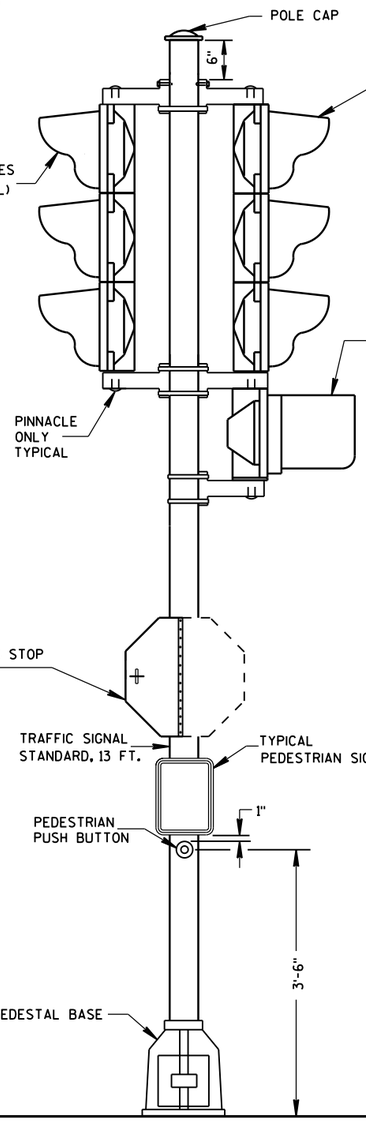


TRAFFIC SIGNAL STANDARD-15 FT.

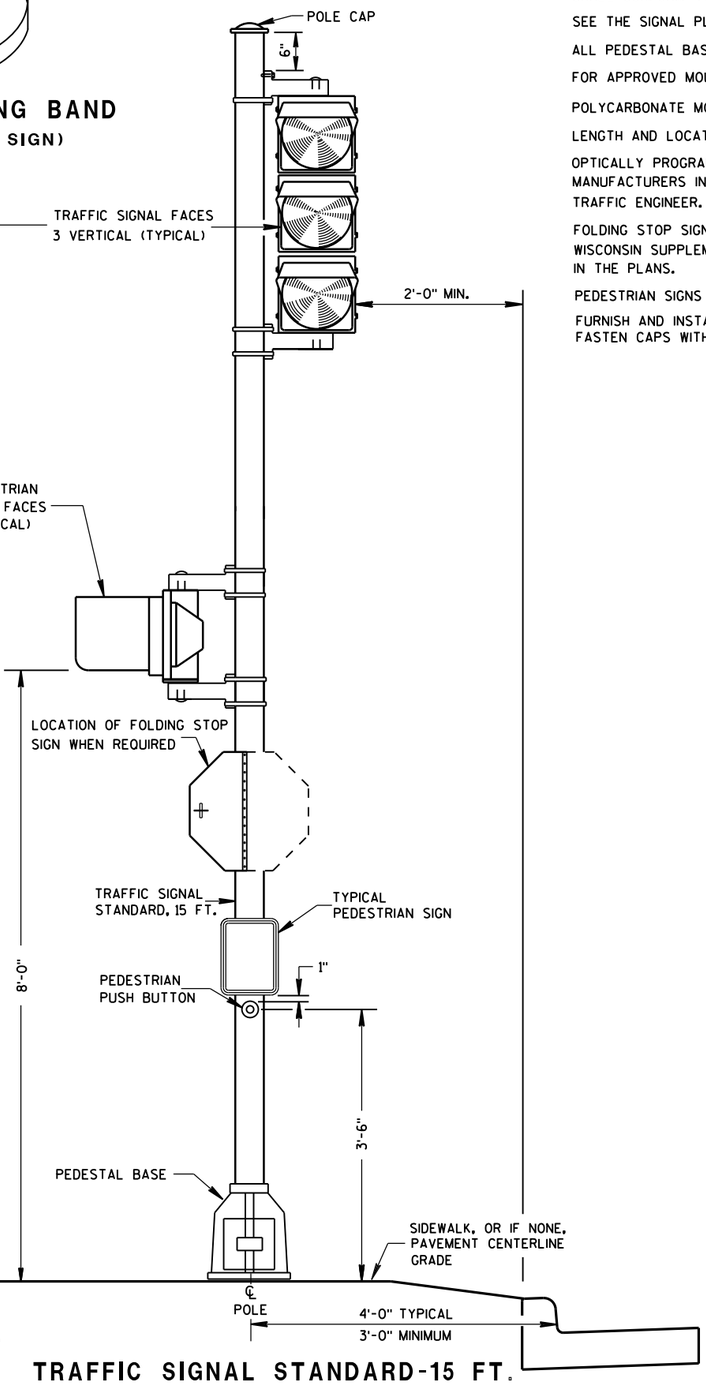


TYPICAL SIGN MOUNTING BAND

(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-13 FT.



TRAFFIC SIGNAL STANDARD-15 FT.

3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

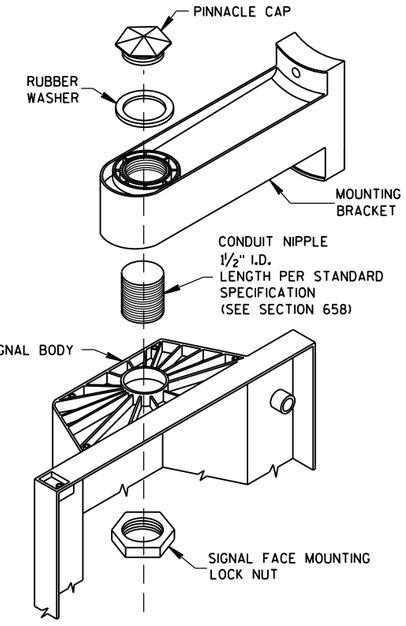
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL

(BANDED)

TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

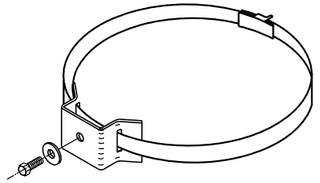
APPROVED
2/28/2013
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

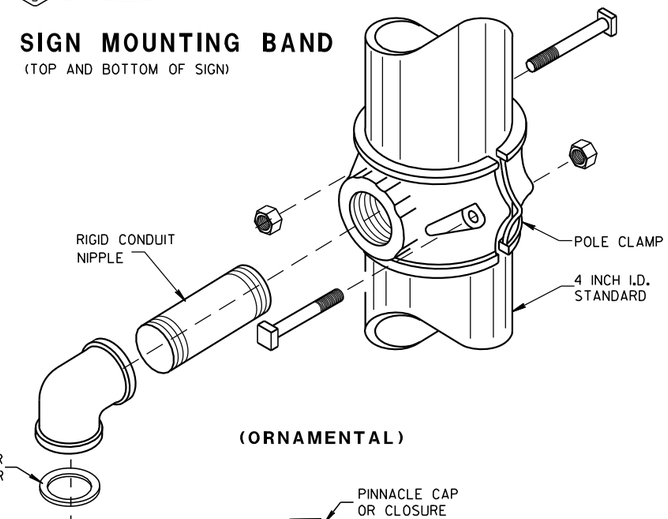
FHWA

6

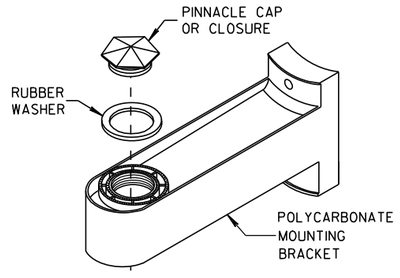
S.D.D. 9 E 6-5



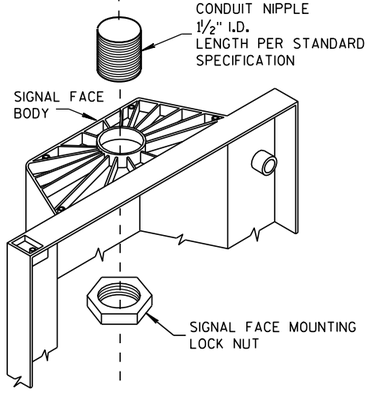
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



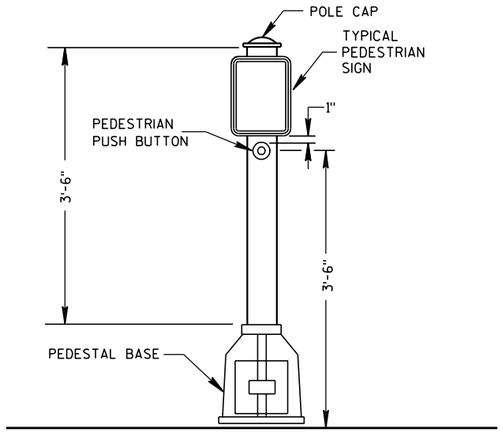
(ORNAMENTAL)



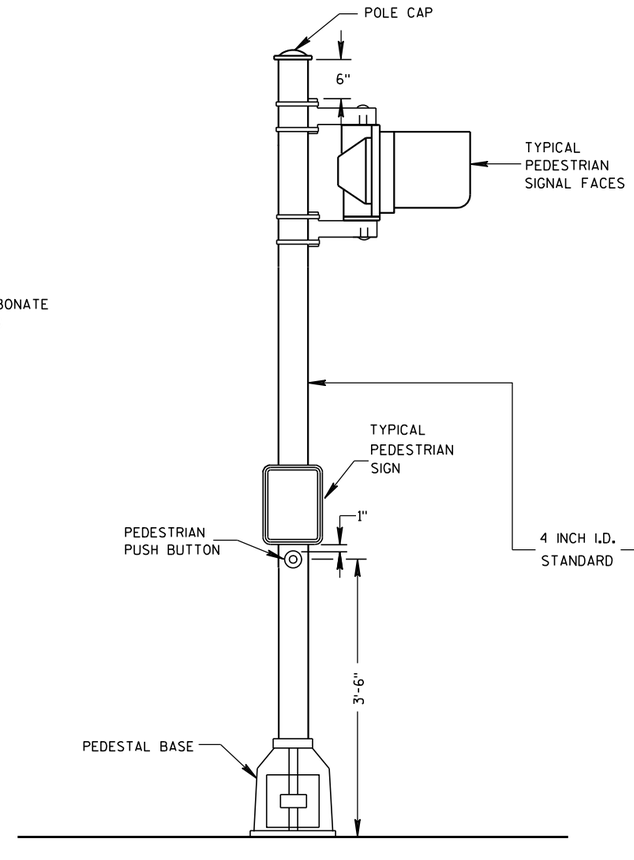
(BANDED)



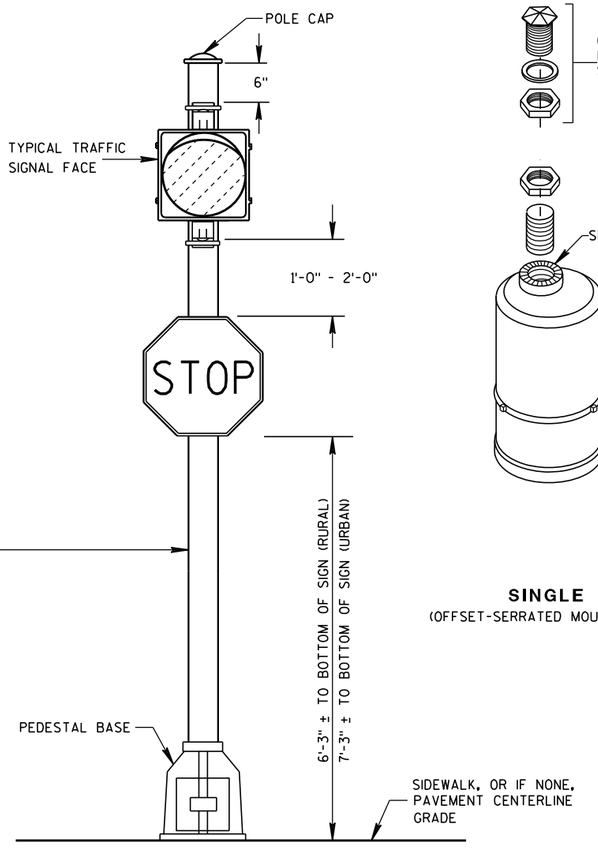
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

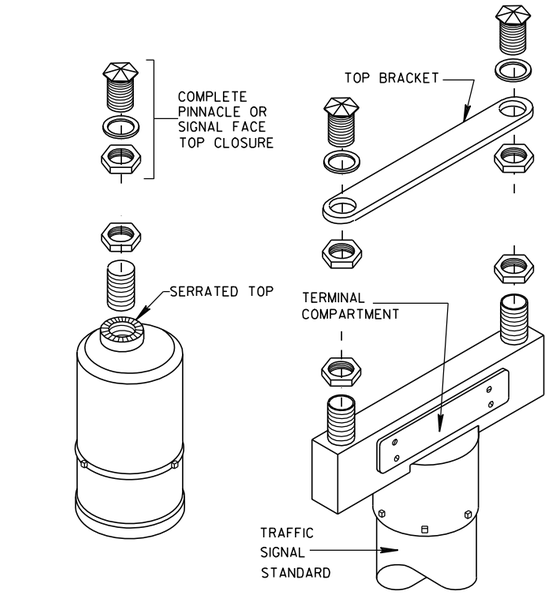
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/11/10
DATE

/S/ John Corbin
STATE ELECTRICAL ENGI

FHWA

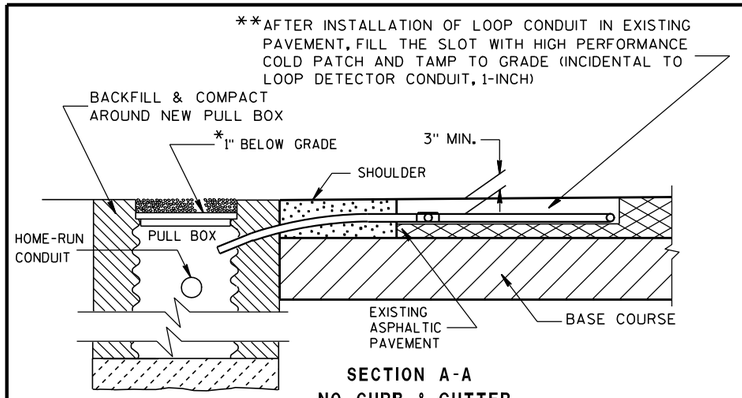
HWYS

6

S.D.D. 9 E 7-5

6

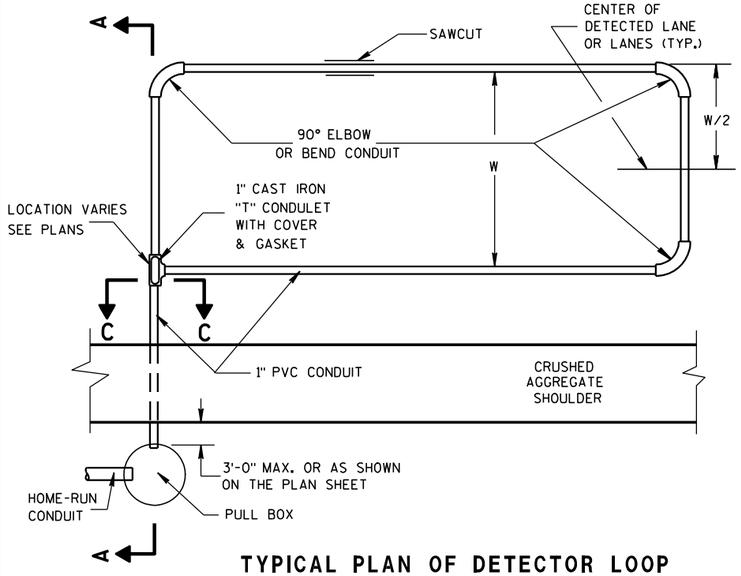
S.D.D. 9 E 7-5



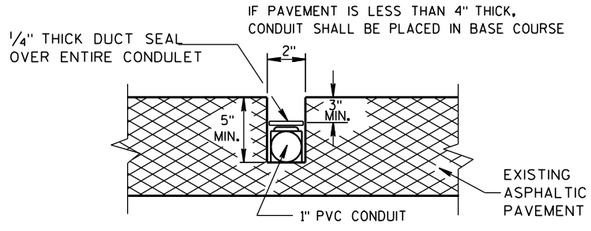
SECTION A-A
NO CURB & GUTTER

TYPICAL PLAN OF LOOP DETECTOR

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF DETECTOR LOOP



SIDE VIEW
SECTION C-C

LOOP DETECTOR SLOT DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISITANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

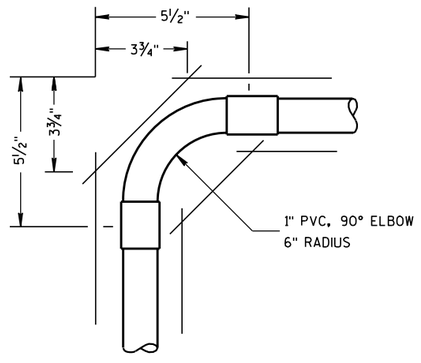
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

IN THE EVENT THAT THE EXISTING PAVEMENT IS MORE THAN 5 INCHES THICK, AND THEREFORE , THE 1 INCH CONDUIT DOES NOT REQUIRE INSTALLATION BELOW THE PAVEMENT INTO THE BASE COURSE, PLACE SOME OF THE TAR OR EPOXY SEALANT IN THE SLOT TO A DEPTH OF APPROXIMATELY 1/2 INCH BEFORE INSTALLATION OF THE CONDUIT. IF THE CONDUIT MUST BE PLACED IN THE BASE COURSE, DO NOT PLACE THE TAR OR EPOXY SEALANT IN THE SLOT.

ONCE THE 2" LOOP SLOT HAS BEEN CHIPPED OUT, THE LOOP INSTALLATION SHALL BE COMPLETED PRIOR TO OPENING THE LANE(S) TO TRAFFIC.

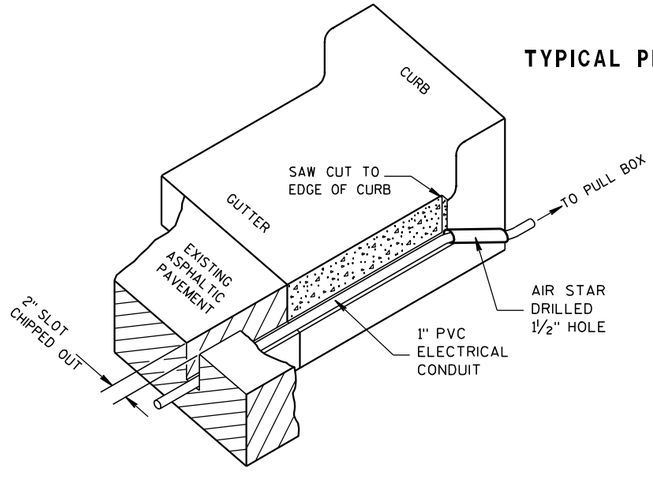
** AFTER THE HIGH PERFORMANCE COLD PATCH HAS BEEN TAMPED, SEAL THE SLOT/HIGH PERFORMANCE COLD PATCH/ PAVEMENT OPENING WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

IN THE EVENT HIGH PERFORMANCE COLD PATCH IS NOT AVAILABLE, AND FLEXIBLE TYPE EPOXY IS USED AS A LOOP SLOT FILLER, THE 2 INCH SLOT SHALL BE TOTALLY CLEAN AND DRY BEFORE ITS INSTALLATION. EPOXY USE SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER AND THE FURNISHED EPOXY SHALL BE INSTALLED AFTER WRITTEN APPROVAL BY THE PROJECT ENGINEER.



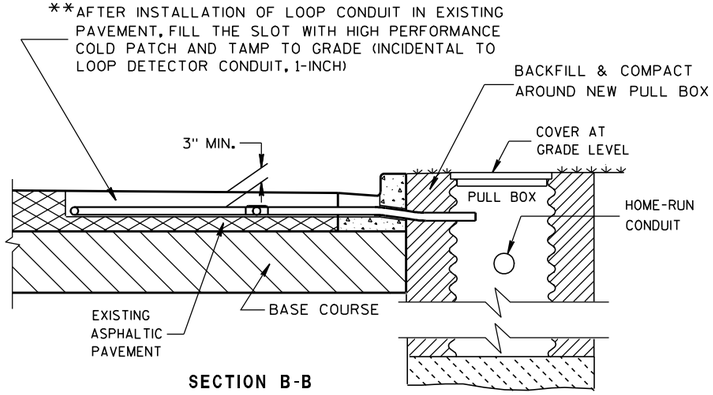
TOP VIEW

CORNER SAW SLOT DETAIL



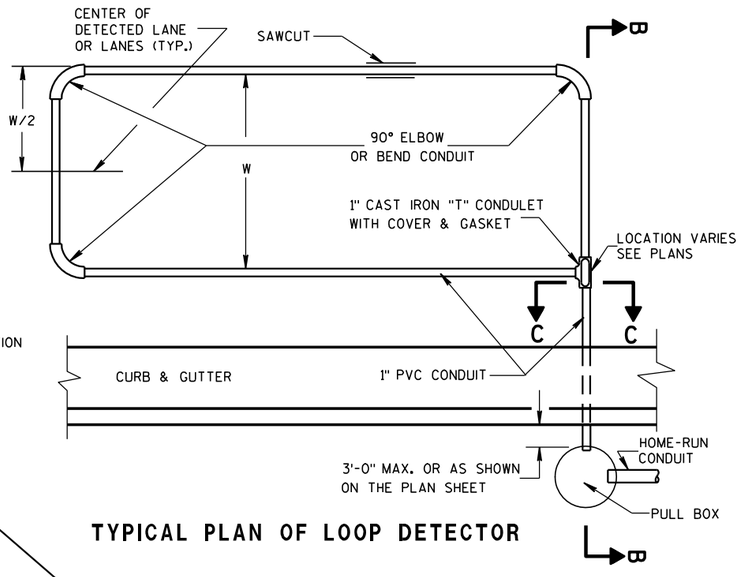
ISOMETRIC VIEW

TYPICAL SAW CUT DETAIL FOR LEAD-IN CONDUIT



SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR

LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/7/06 DATE
/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 570 HWYS
FHWA

6

S.D.D. 9 F 13-3

6

S.D.D. 9 F 13-3

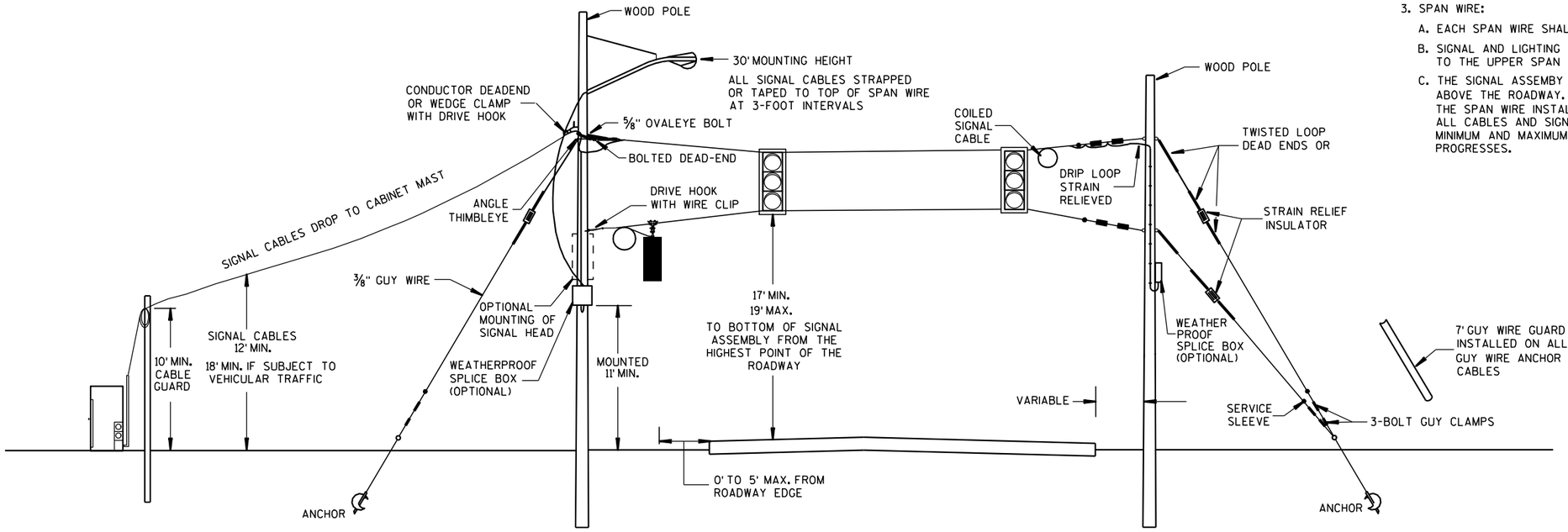
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

MINIMUM POLE LENGTHS	POLE BURIEL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

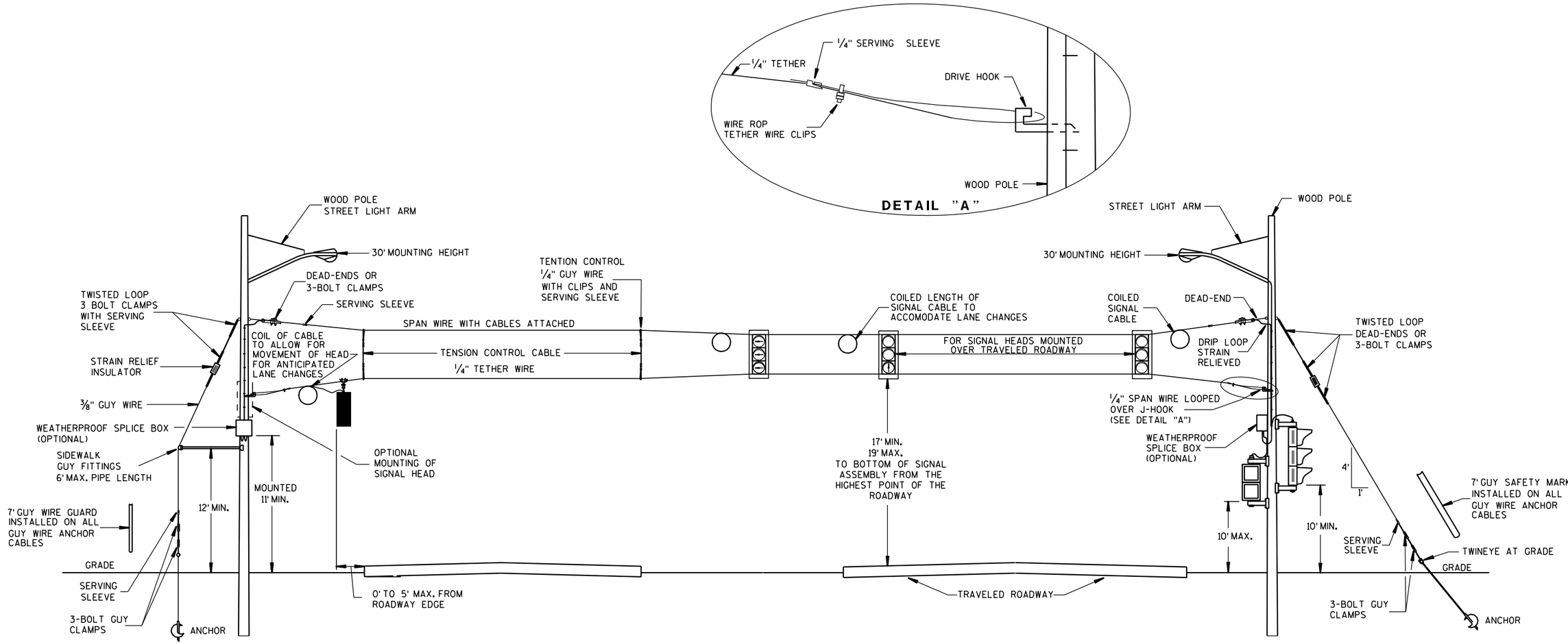
APPROVED

7-14-08 DATE

/S/ Balu Ananthar [illegible]n
STATE ELECTRICAL ENGI 571 HWYS

FHWA

6
S.D.D. 9 G 1-3a



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08 DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 572 HWYS

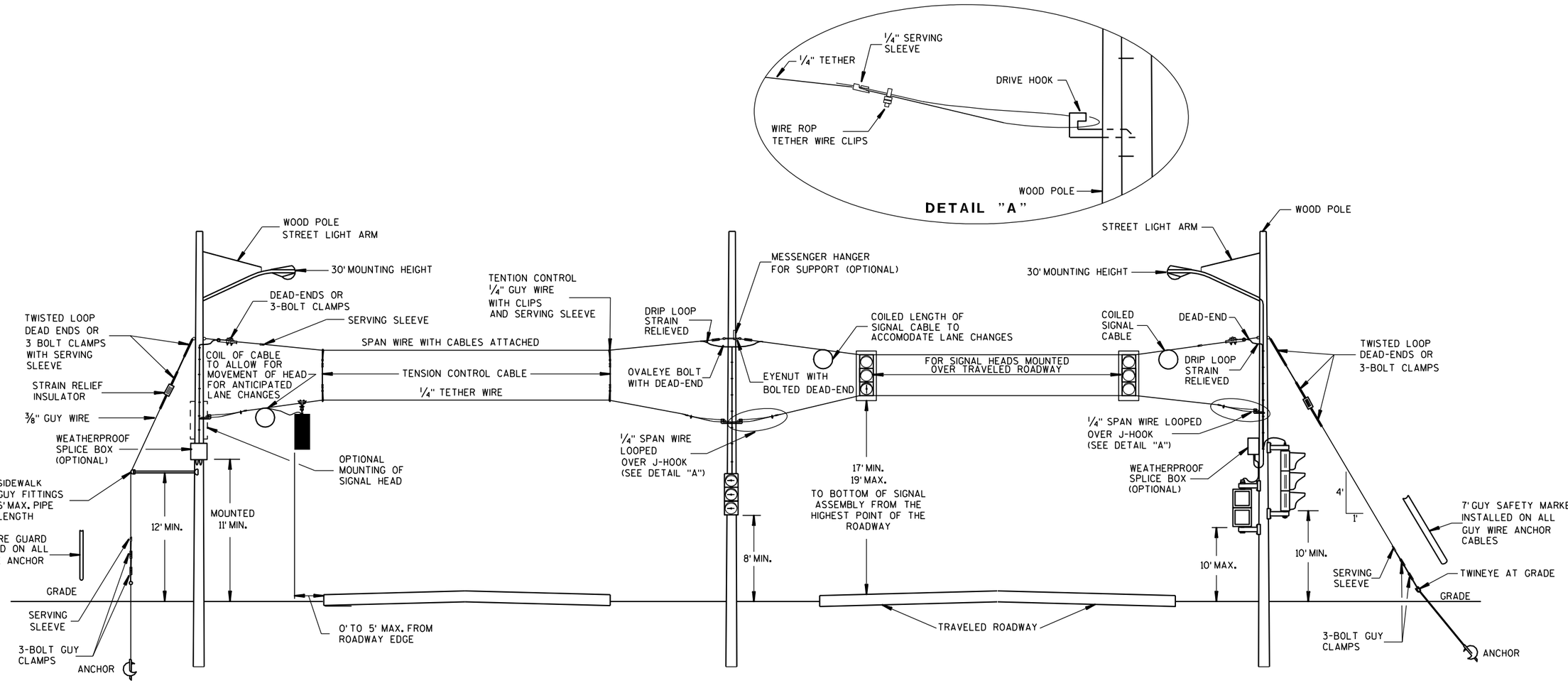
FHWA

6

S.D.D. 9 G 1-3b

6

S.D.D. 9 G 1-3b



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08 DATE

/S/ Balu Aganthangarayanan
STATE ELECTRICAL ENGI 573 HWYS

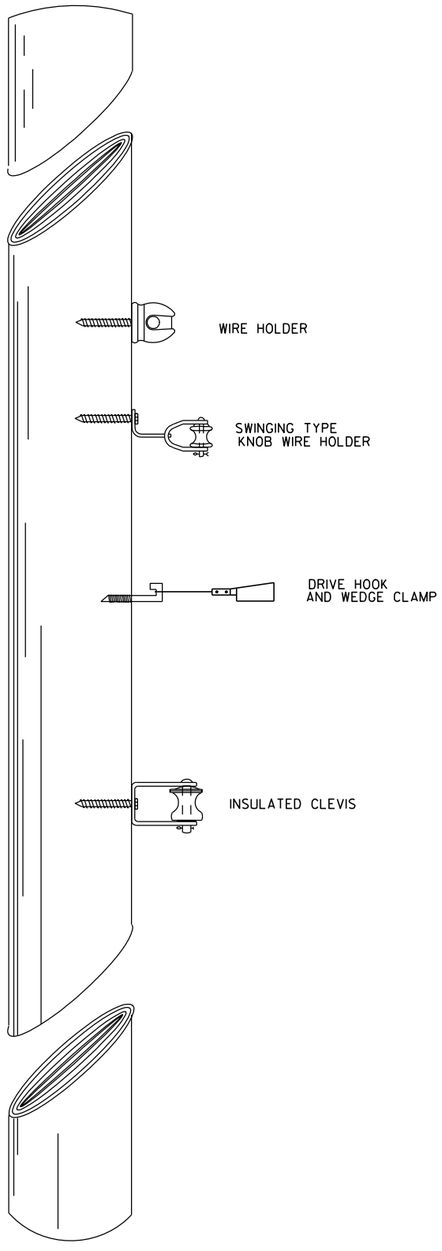
FHWA

6

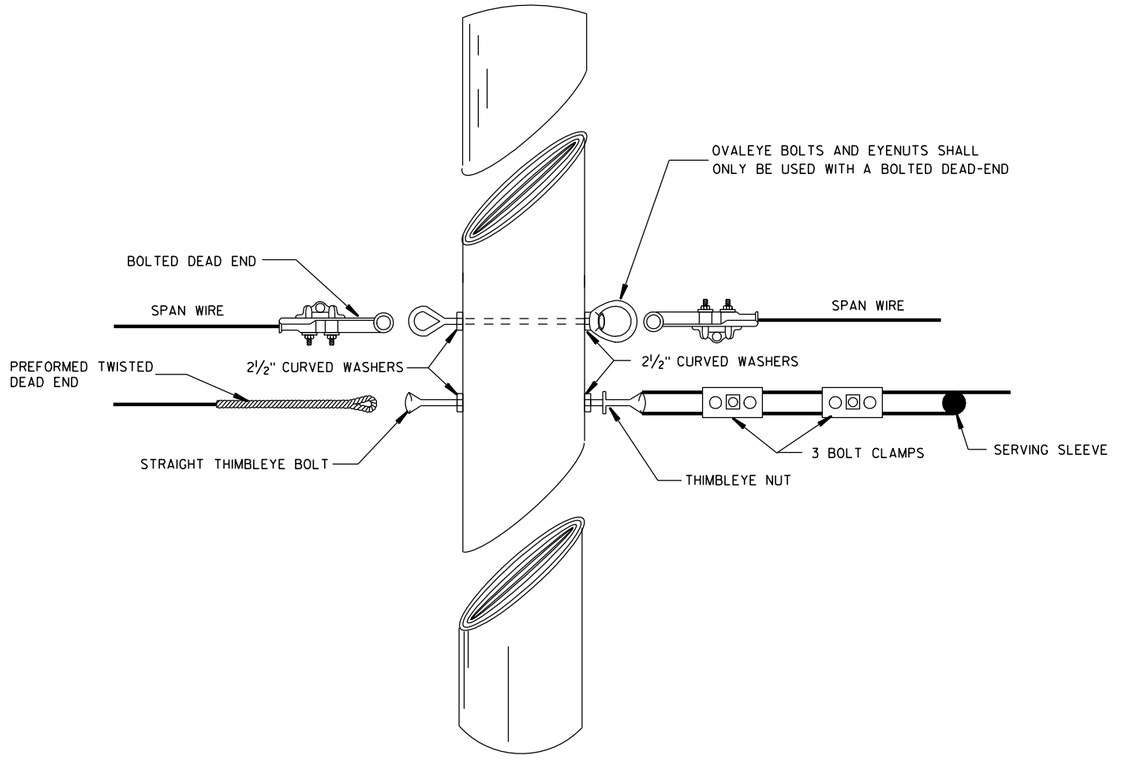
S.D.D. 9 G 1-3c

6

S.D.D. 9 G 1-3c



TYPICAL CABLE HANGERS



TYPICAL DEAD-ENDING

6

6

S.D.D. 9 G 1-3d

S.D.D. 9 G 1-3d

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

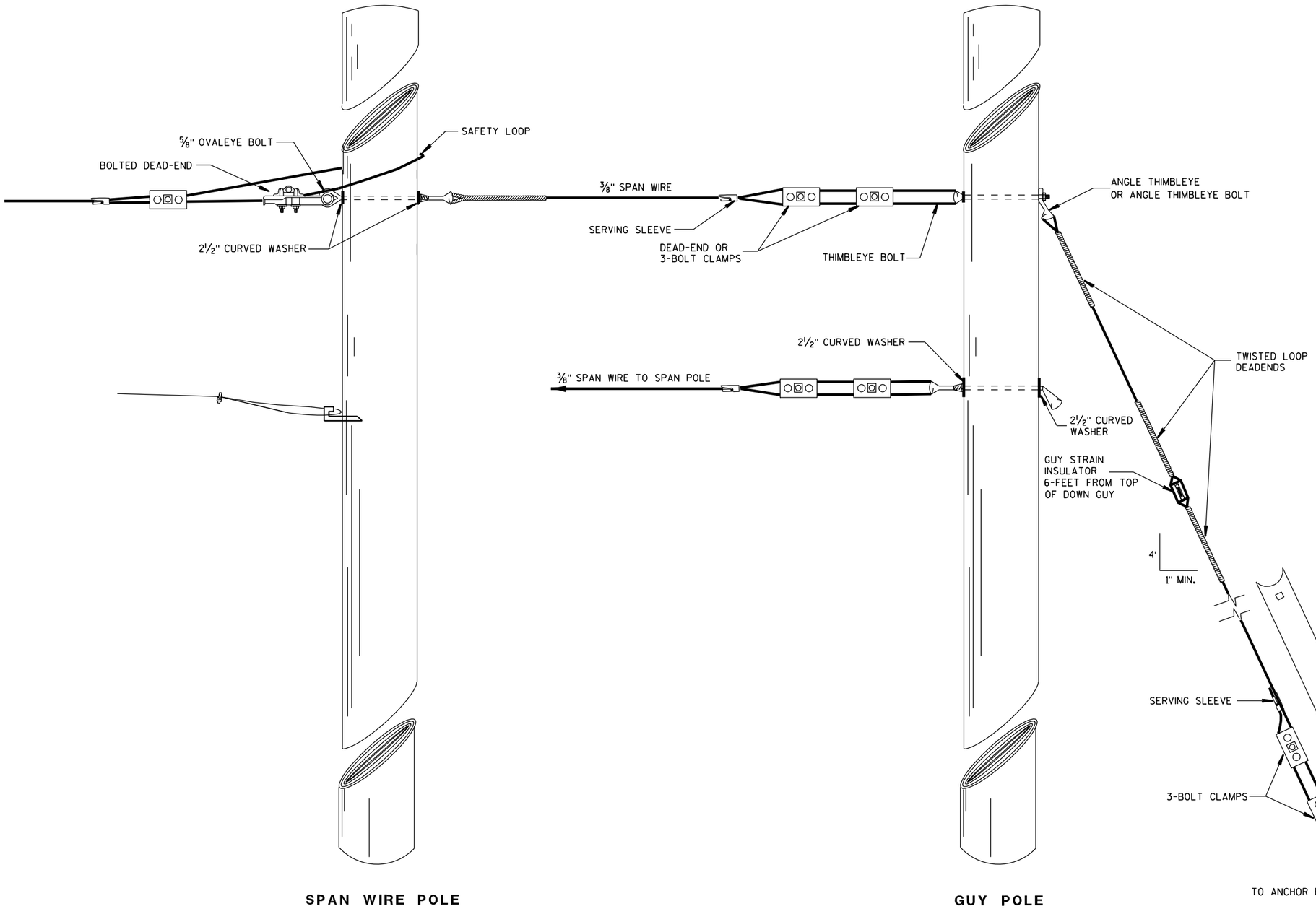
7-14-08
DATE

/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 574 HWYS

FHWA

GENERAL NOTES

1. USE ¾" DRILL IN WOOD POLE TO PROVIDE HOLE FOR ⅝" BOLTS.
2. SAFTY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE

GUY POLE

TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

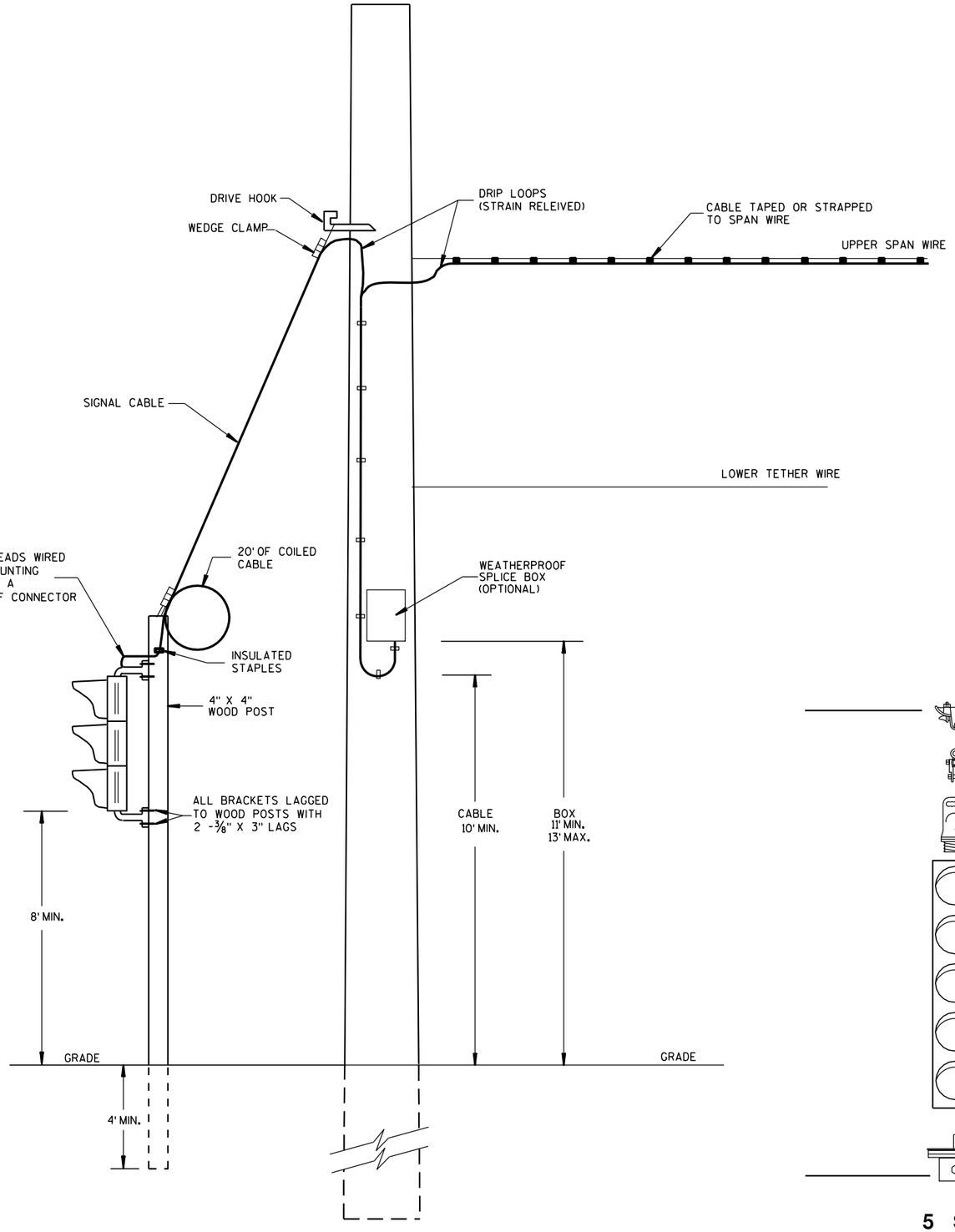
APPROVED
7-14-08 DATE
/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 575 HWYS
FHWA

6

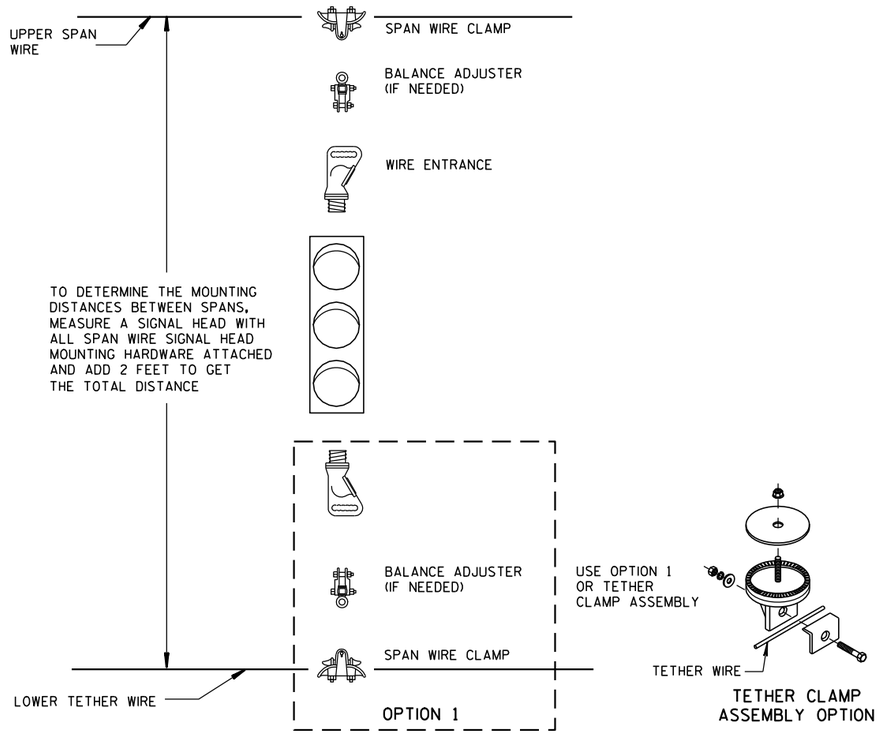
S.D.D. 9 G 1-3e

6

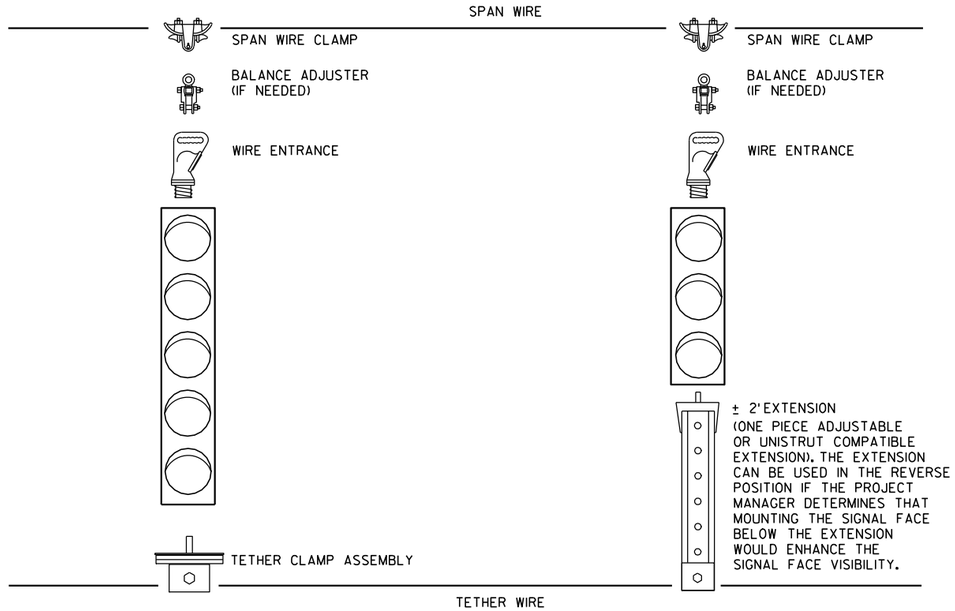
S.D.D. 9 G 1-3e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

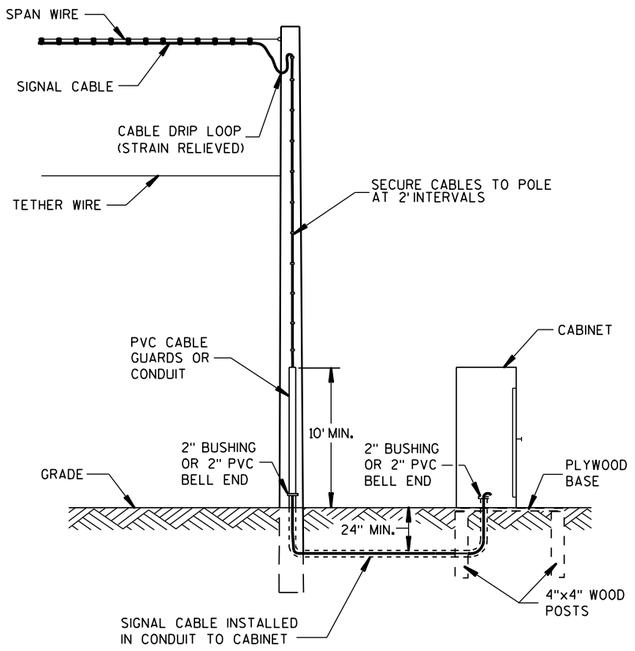
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

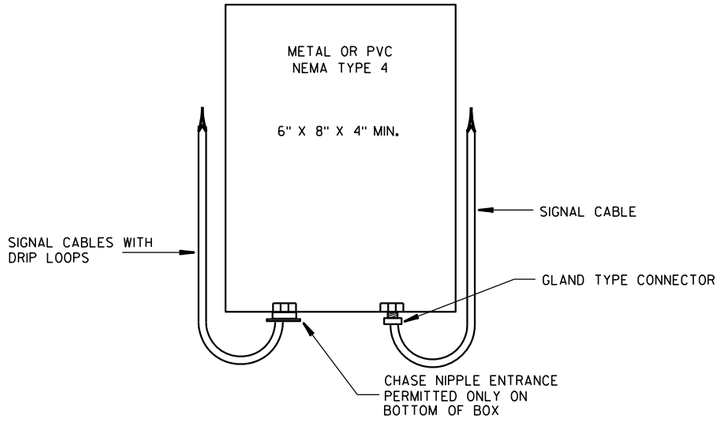
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7-14-08 DATE
/S/ Balu Ananthanarayanan
STATE ELECTRICAL ENGI 576 HWYS
FHWA

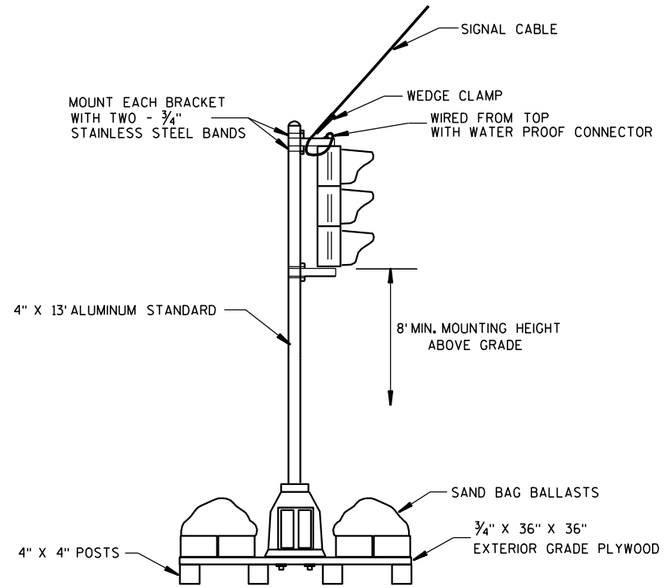
6

S.D.D. 9 G 1-3f

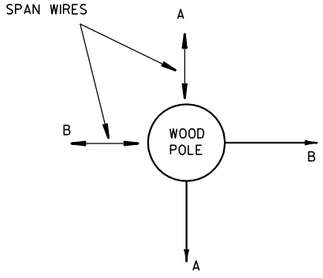




SPLICE BOX

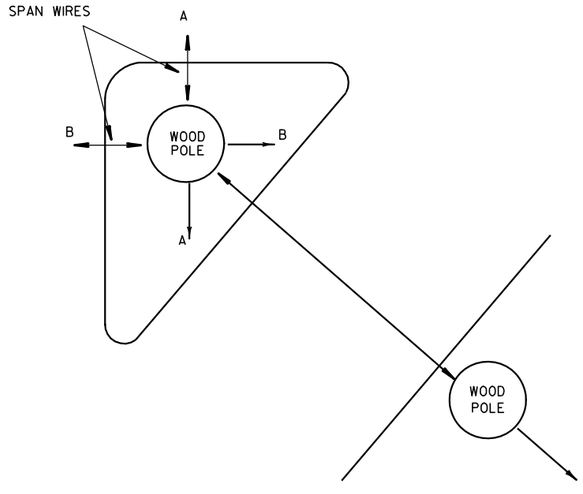


TYPICAL SKID TYPE TEMPORARY

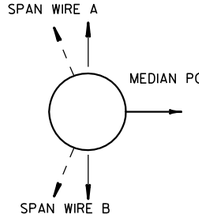


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF THE
SPAN LOADING

MEDIAN POLES

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-14-08
DATE

/S/ Balu Aganthangayagan
STATE ELECTRICAL ENGI 577 HWYS

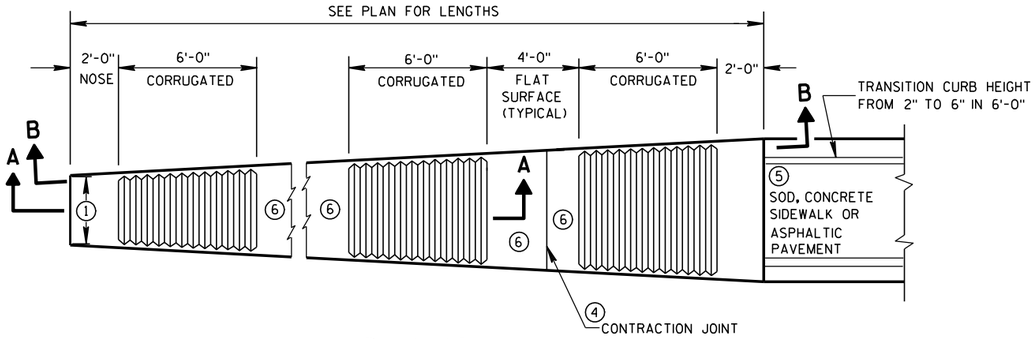
FHWA

6

S.D.D. 9 G 1-3g

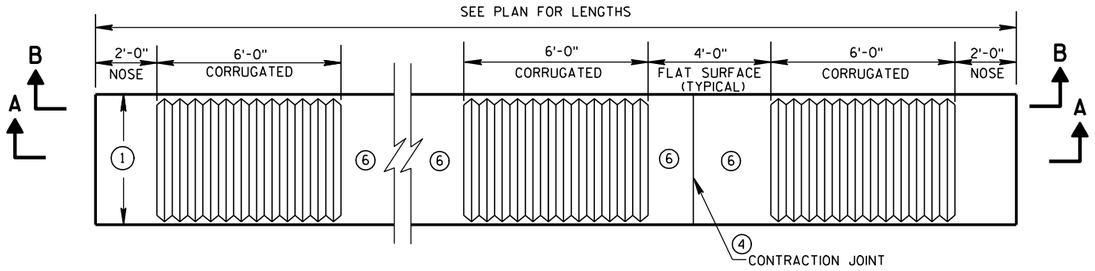
6

S.D.D. 9 G 1-3g



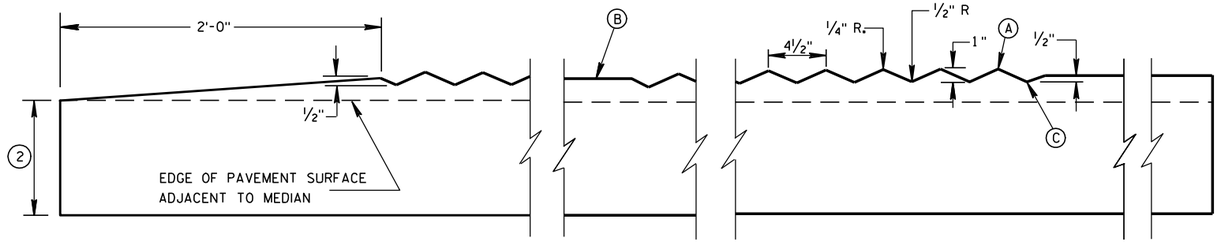
PLAN VIEW

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.

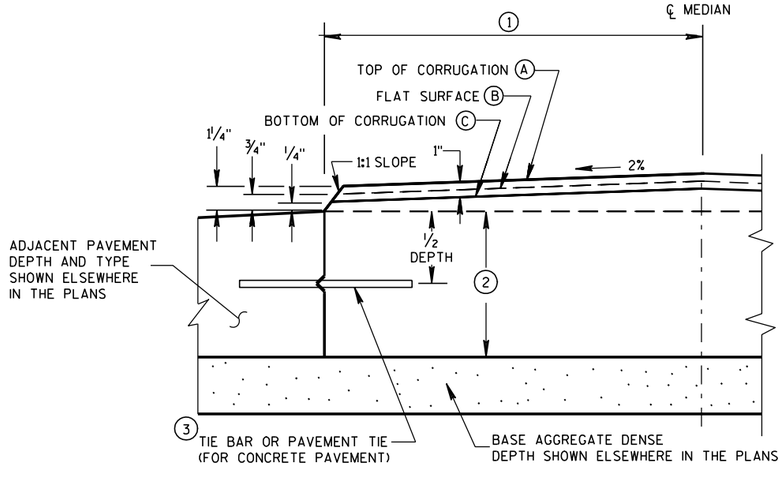
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).

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.

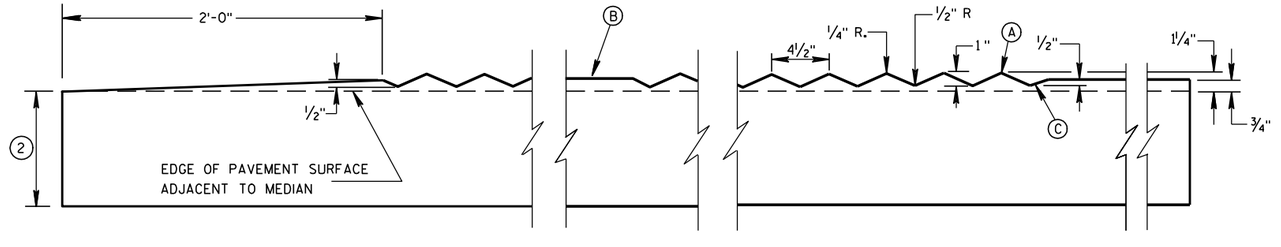
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(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

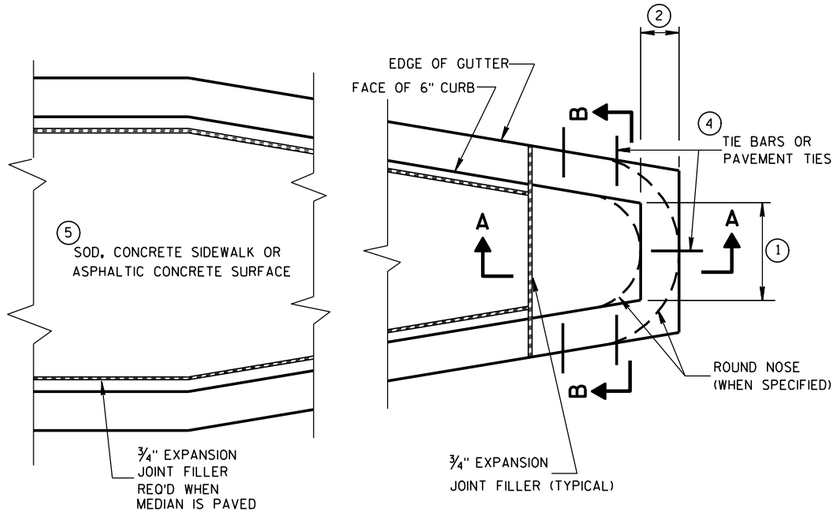
CONCRETE CORRUGATED MEDIAN	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
12/17/07 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	578

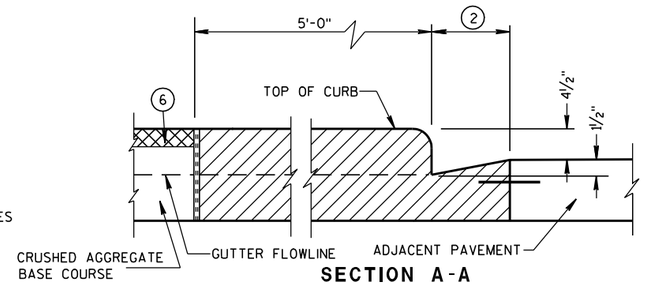
6

S.D.D. 11 B 1-5

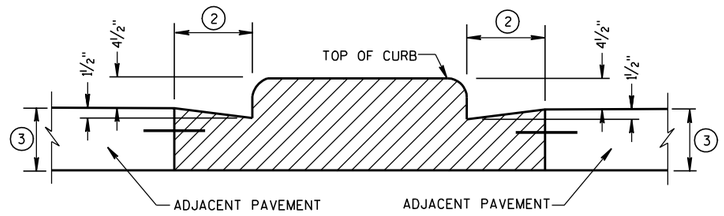
6

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.

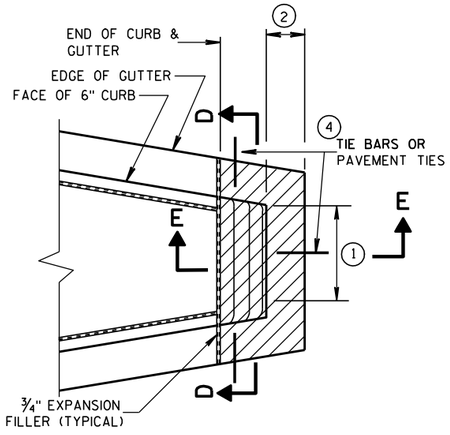
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

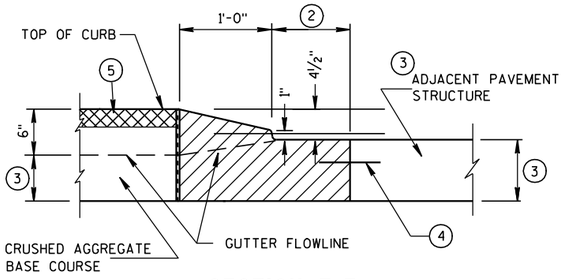
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(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.

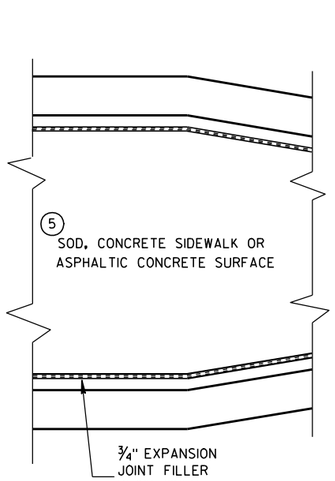
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

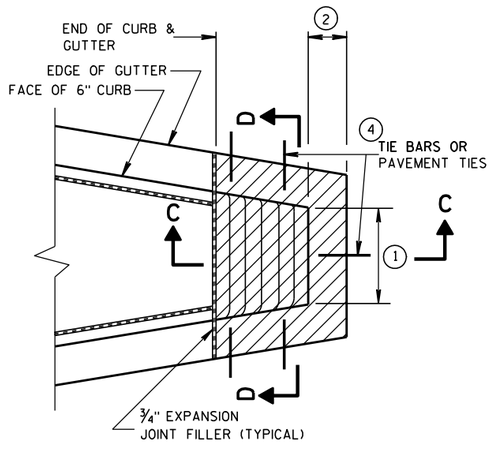




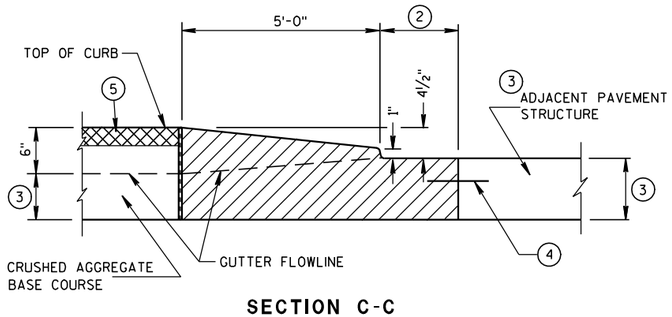
SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2

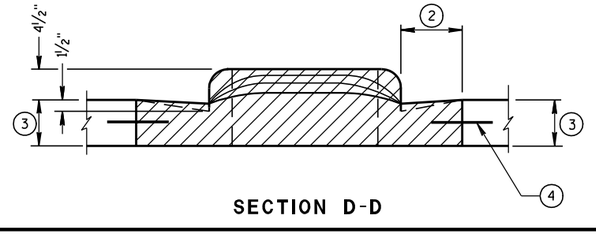




CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION C-C



SECTION D-D

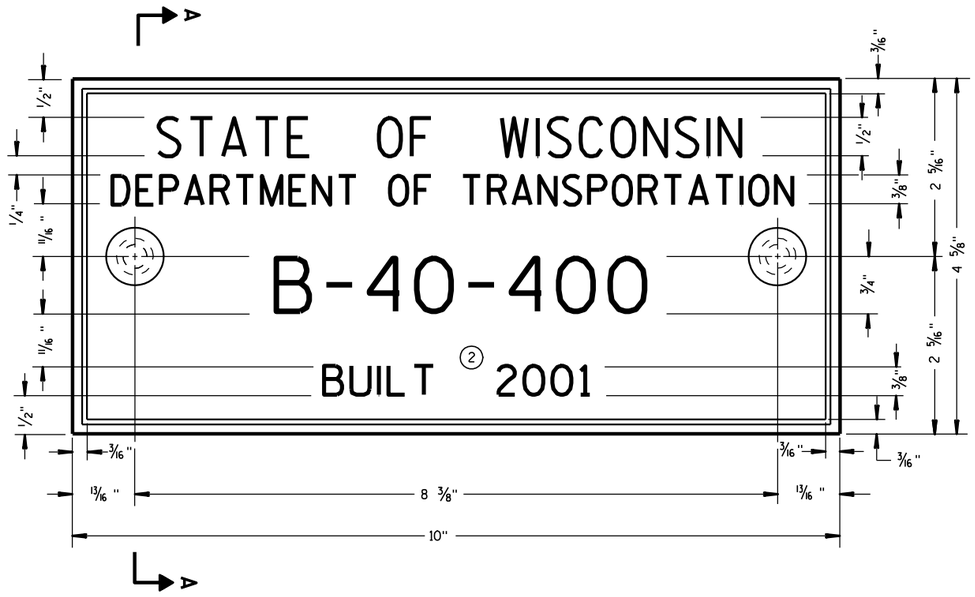
CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/2006 DATE FHWA	/S/ Jerry H. [illegible] ROADWAY STANDARDS ENGINEER 1579 NT

6

S.D.D. 11 B 2-2

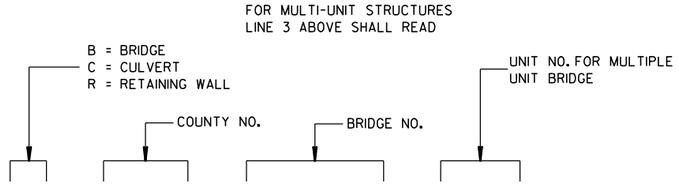
6

S.D.D. 11 B 2-2



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

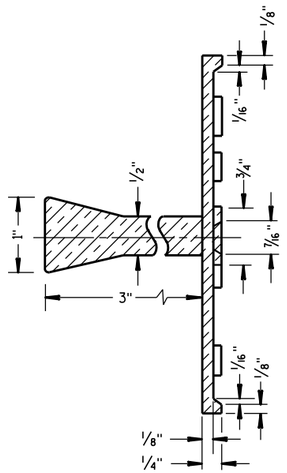
GENERAL NOTES

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.

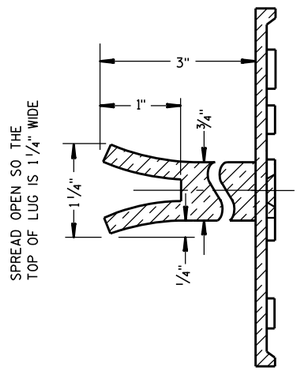
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

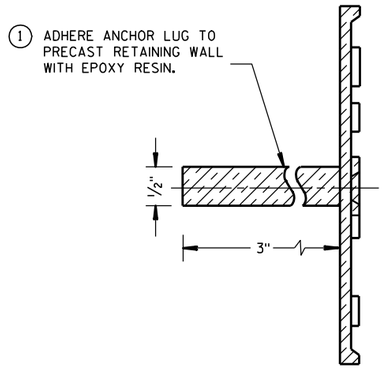
(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

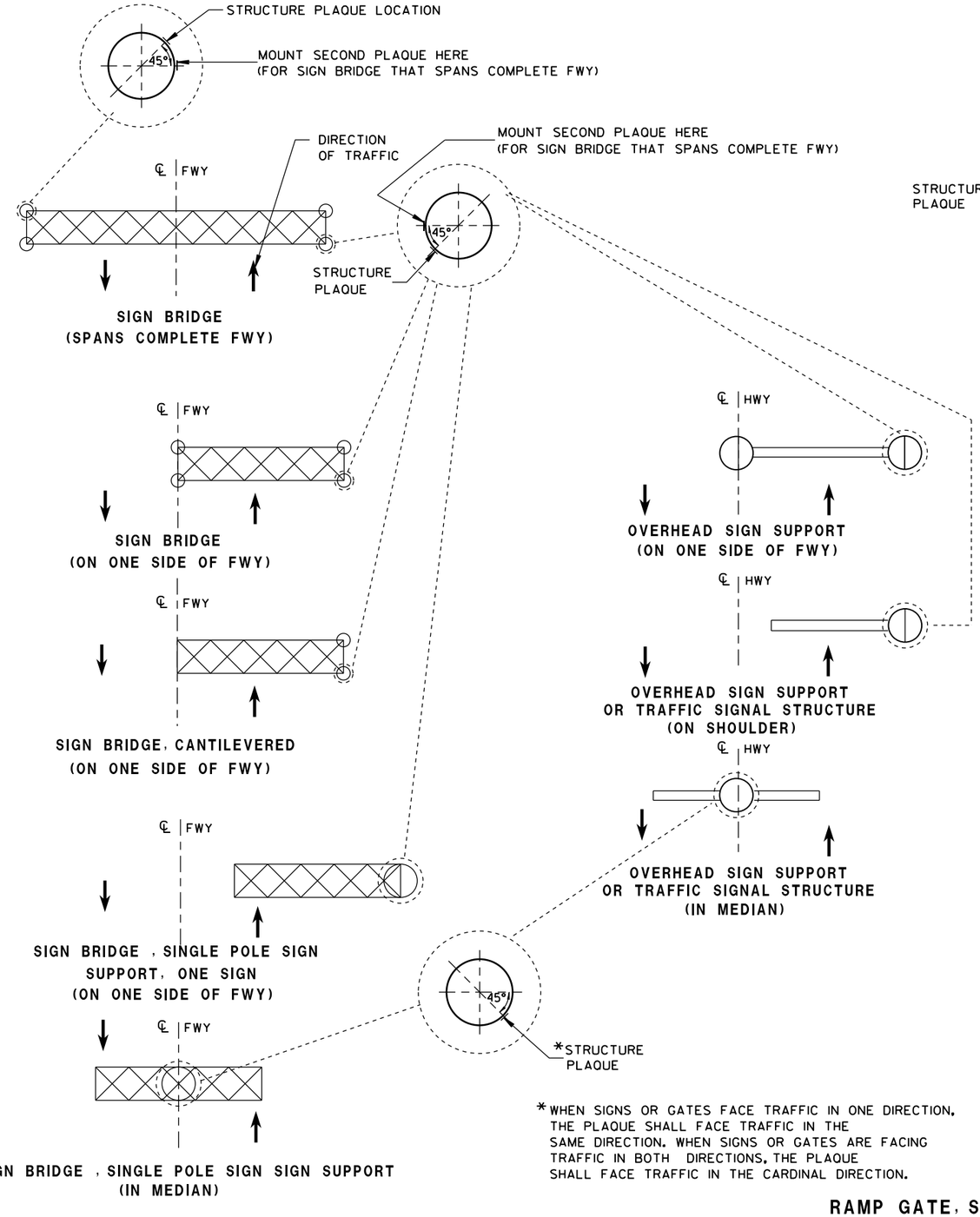
NAME PLATE (STRUCTURES)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
3/26/10 DATE	/S/ Scot Beck -- CHIEF STRUCTURAL DEVELOP 580 ENGINEER
FHWA	

6

S.D.D. 12 A 3-10

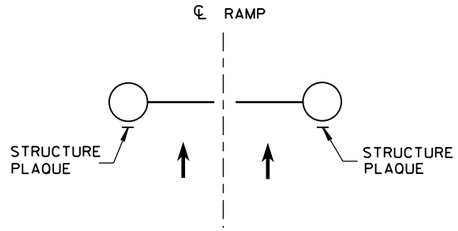
6

S.D.D. 12 A 3-10

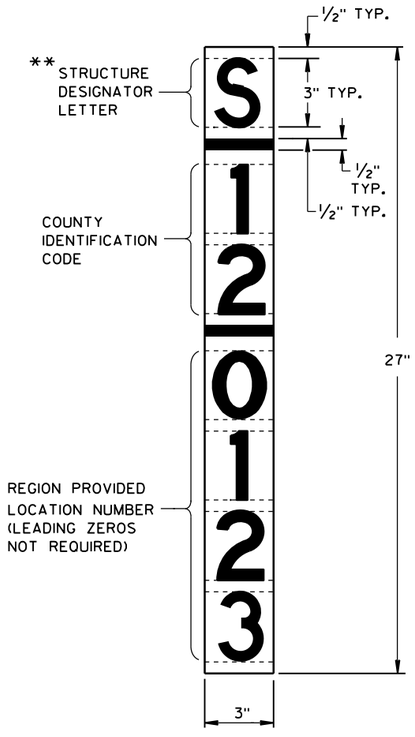


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



**RAMP GATE
(ACROSS FWY ON-RAMP)**



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

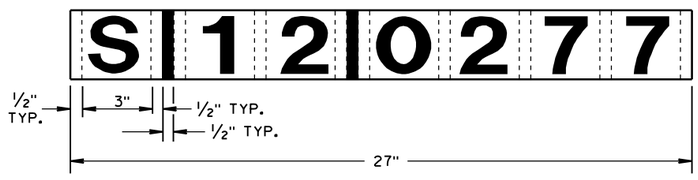
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

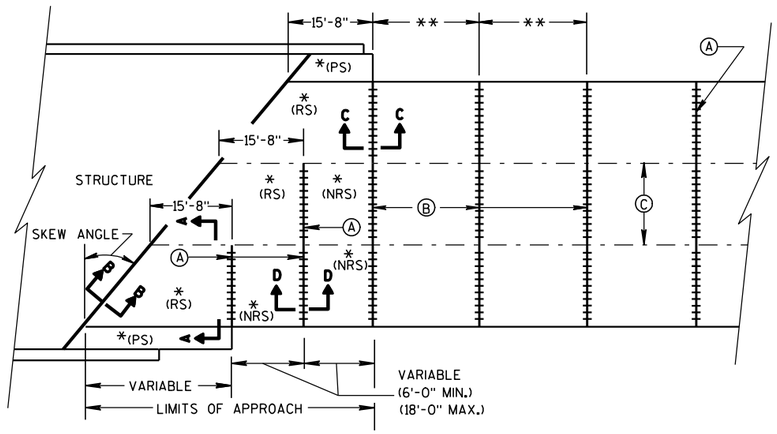
APPROVED
12/4/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

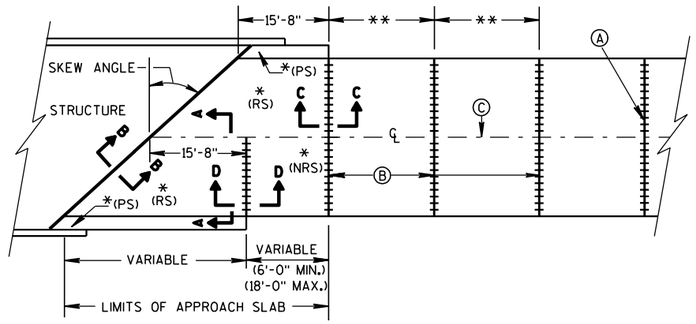
S.D.D. 12 A 4-3

6

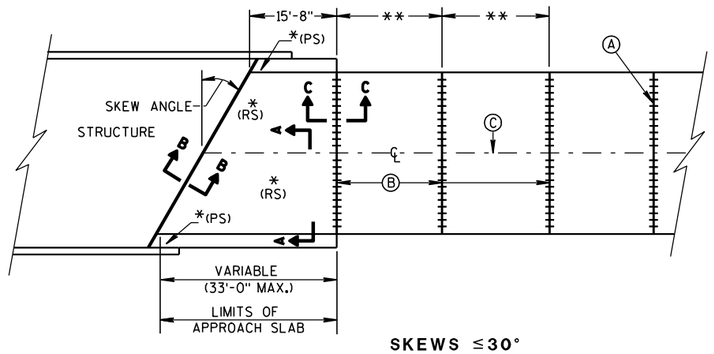
S.D.D. 12 A 4-3



SKEWED APPROACH
(PAVEMENT MORE THAN 2 LANES)



SKEWS >30°
(PAVEMENT WIDTH ≤30')



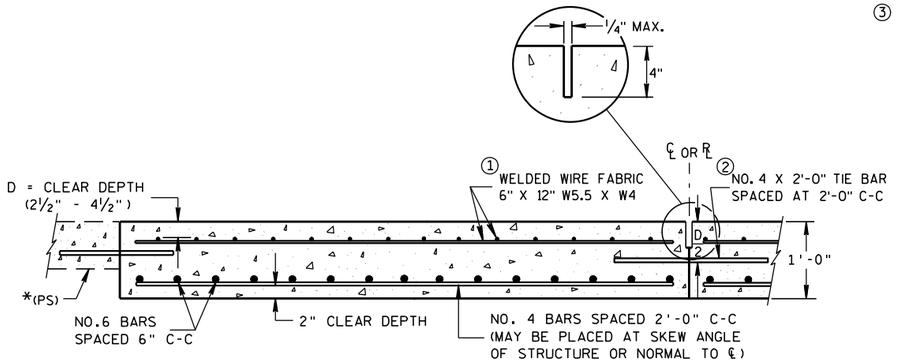
SKEWS ≤30°
(PAVEMENT WIDTH ≤30')

APPROACH SLAB AND ADJACENT PAVEMENT

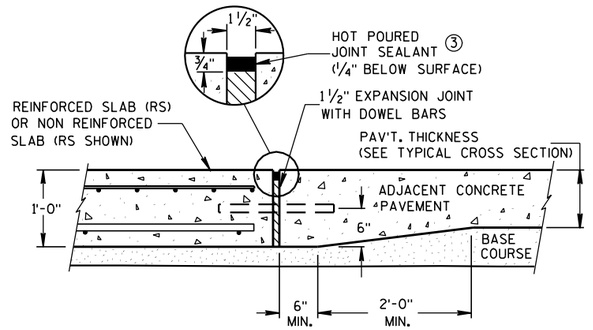
*(RS) = REINFORCED CONCRETE SLAB
*(PS) = PAVED CONCRETE SHOULDER: CONCRETE PAVEMENT, OR CONCRETE SURFACE DRAIN
(SEE DETAILS ELSEWHERE IN THE PLAN)
*(NRS) = NON-REINFORCED CONCRETE SLAB

**STANDARD TRANSVERSE JOINT SPACING
(SEE SDD 13C4, SDD 13C11, & SDD 13C13)

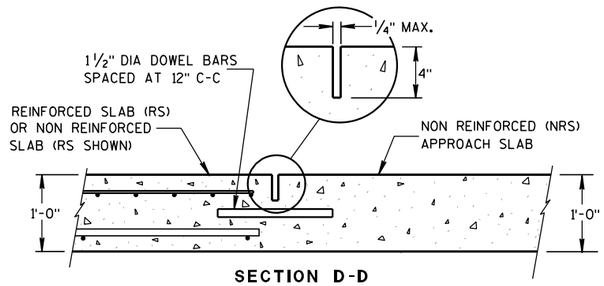
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄
(B) 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄
(C) STANDARD LONGITUDINAL JOINT AND TIE BARS.



SECTION A-A
REINFORCEMENT POSITIONING DETAIL



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



SECTION D-D
CONTRACTION JOINT

GENERAL NOTES

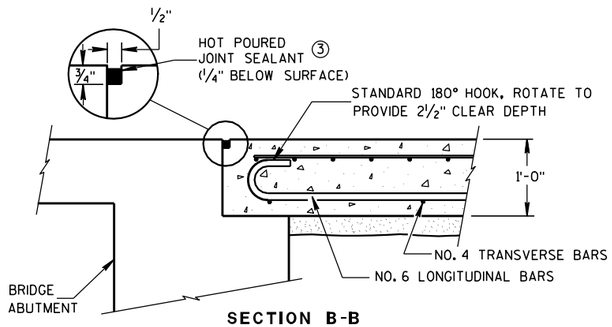
APPROACH SLABS ABUTTING AN HMA PAVEMENT OVER BASE COURSE DO NOT NEED TO BE DOWELED.

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

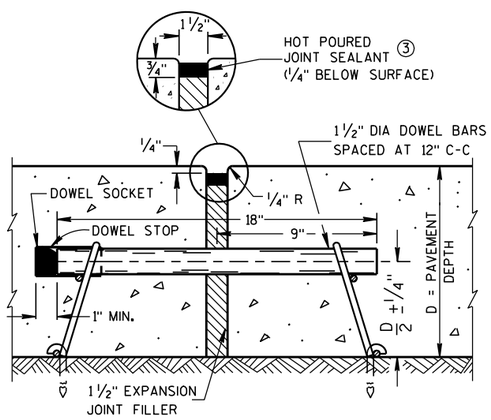
① THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

② THE CONTRACTOR MAY OMIT TIE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

③ USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.



SECTION B-B
BEND DETAIL
BOTTOM REINFORCEMENT



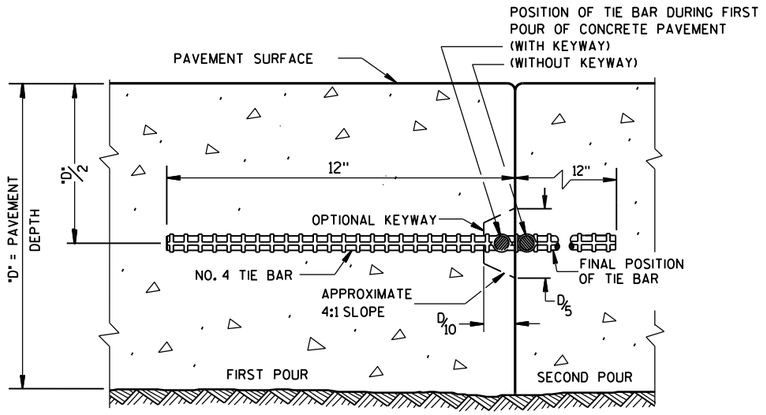
EXPANSION JOINT

CONCRETE PAVEMENT APPROACH SLAB

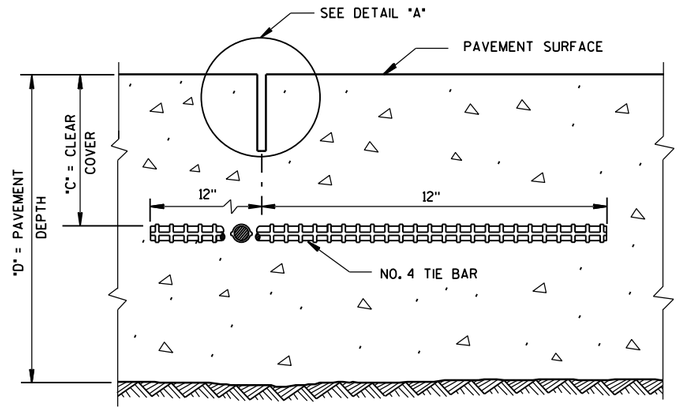
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/11/2009 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DE582 — NEER
FHWA

6
S.D.D. 13 B 2-6
6
S.D.D. 13 B 2-6



CONSTRUCTION JOINT



SAWED JOINT

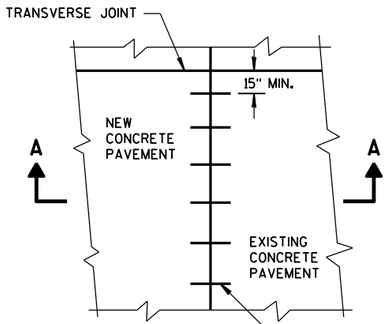
GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

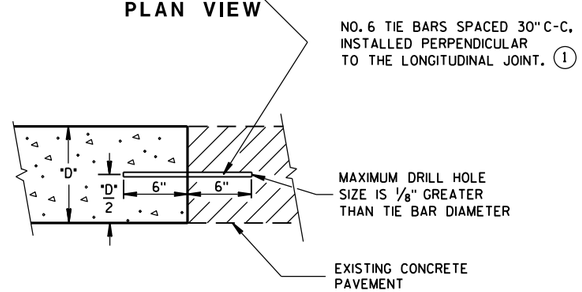
CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

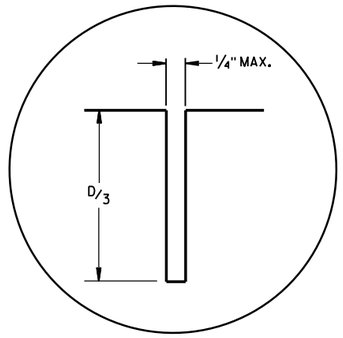


PLAN VIEW



SECTION A-A

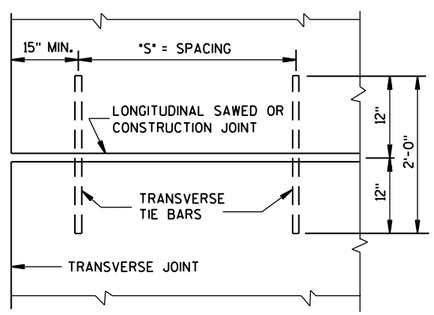
LONGITUDINAL CONSTRUCTION JOINT
TIE BARS ANCHORED
INTO EXISTING PAVEMENT



DETAIL "A"

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

APPROVED

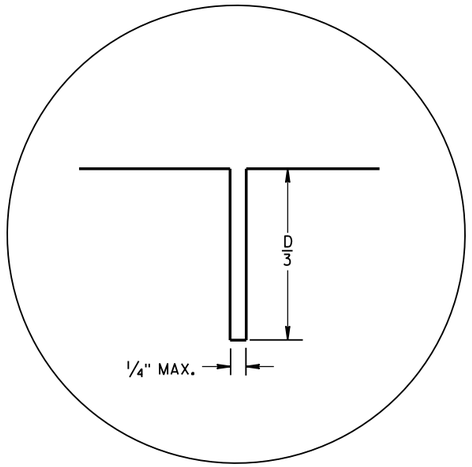
5-3-2013
DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DE ENGINEER

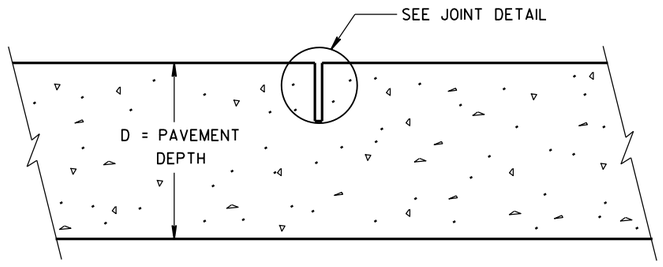
FHWA

6

S.D.D. 13 C 1-16



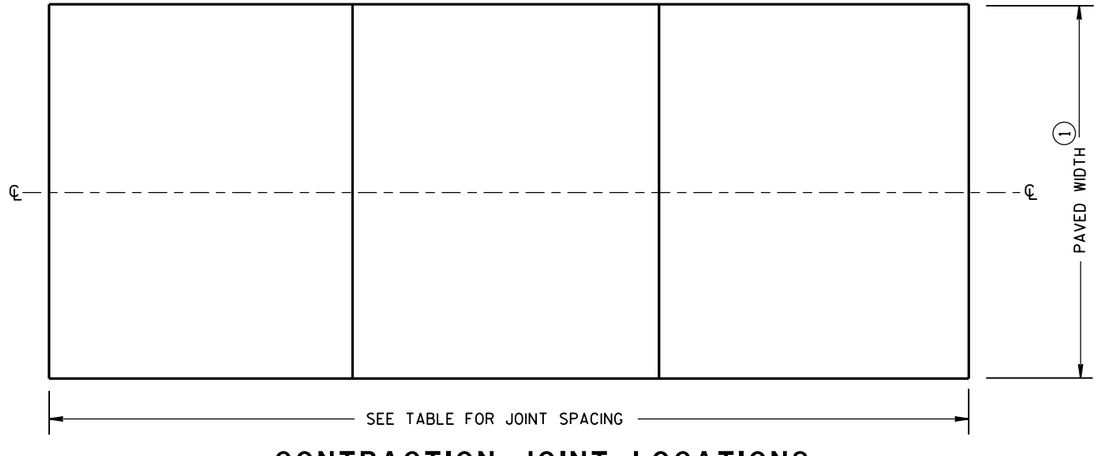
JOINT DETAIL



CONTRACTION JOINT

PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 1/2"	12'
7", 7 1/2"	14'
8" & ABOVE	15'



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE.

LOCATE AND ORIENT CONTRACTION JOINTS THROUGH INTERSECTIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

CONSTRUCTION JOINTS

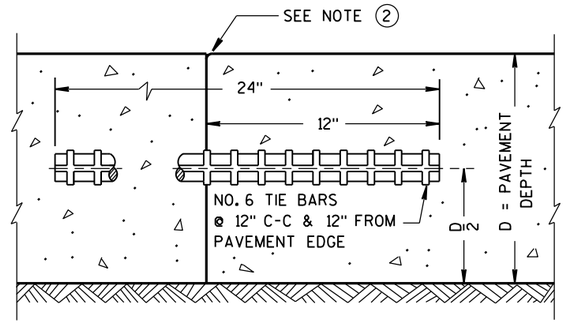
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

FORM OR SAW CONSTRUCTION JOINTS.

THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

(1) REFER TO TYPICAL CROSS SECTIONS FOR PAVED WIDTH AND LOCATION OF LONGITUDINAL JOINTS.

(2) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.



TIED TRANSVERSE CONSTRUCTION JOINT

6

6

S.D.D. 13 C 4-16

S.D.D. 13 C 4-16

URBAN NON-DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

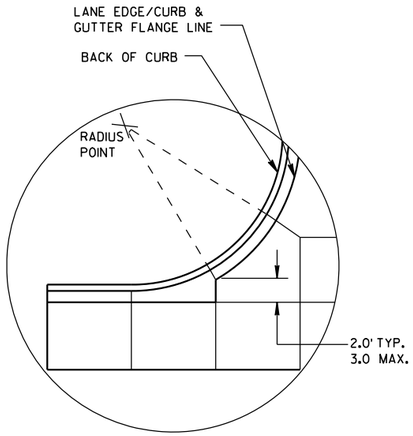
APPROVED

5/3/2013 DATE

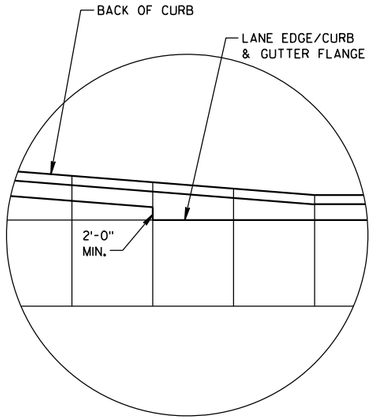
/S/ Deb Bischoff
PAVEMENT POLICY & DE

FHWA

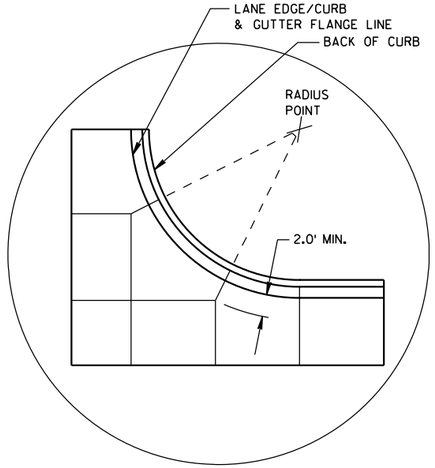
IEER



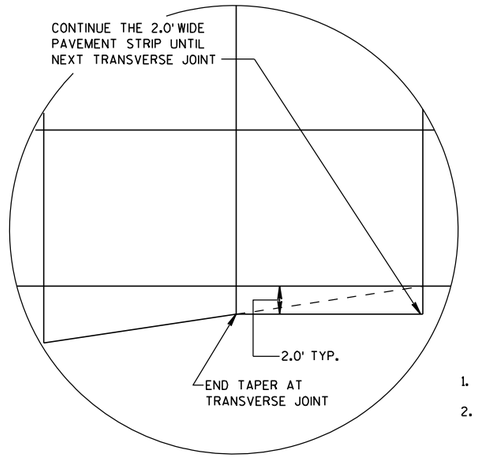
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

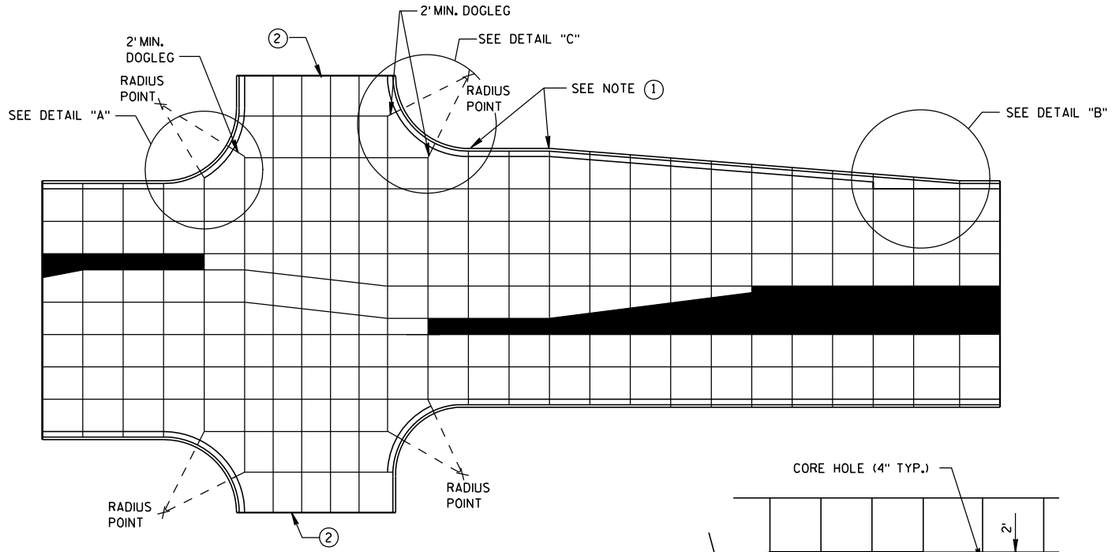
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

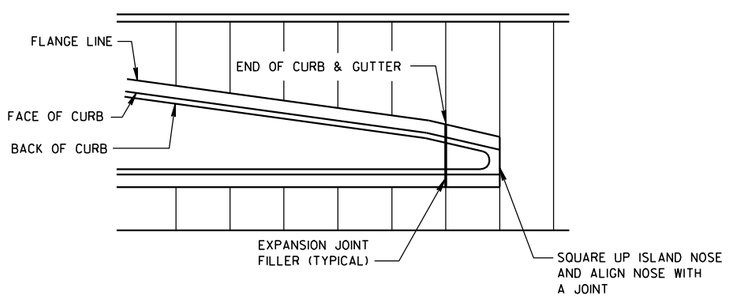
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



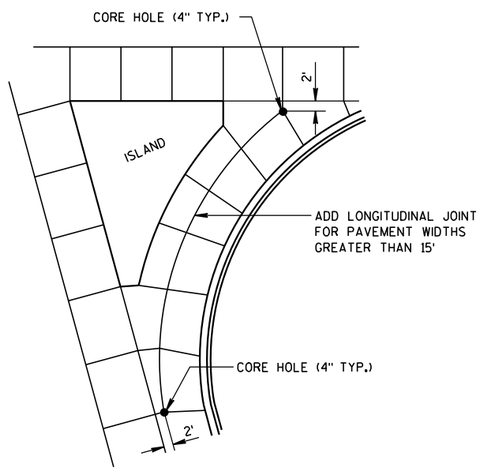
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

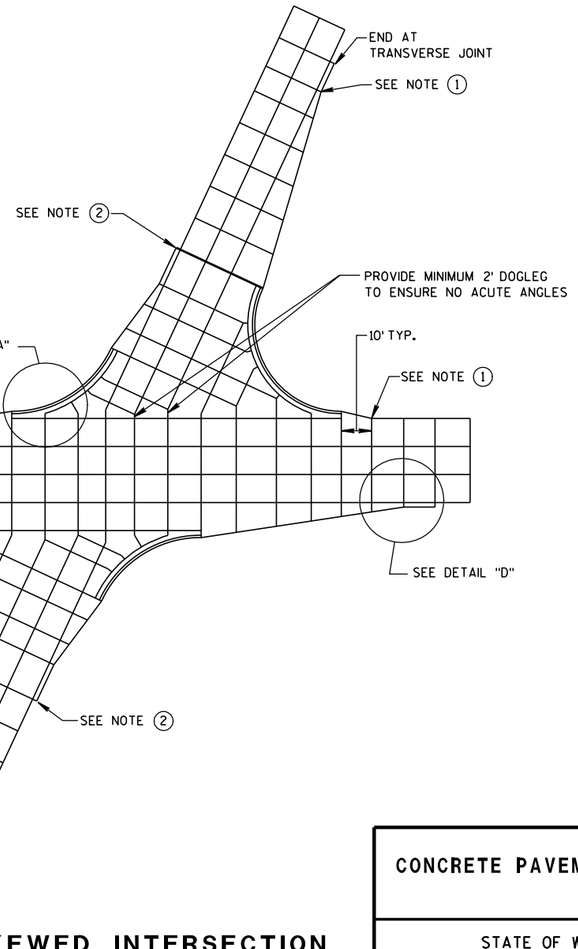
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



APPROACH TO MEDIAN



LARGE RIGHT TURN



SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

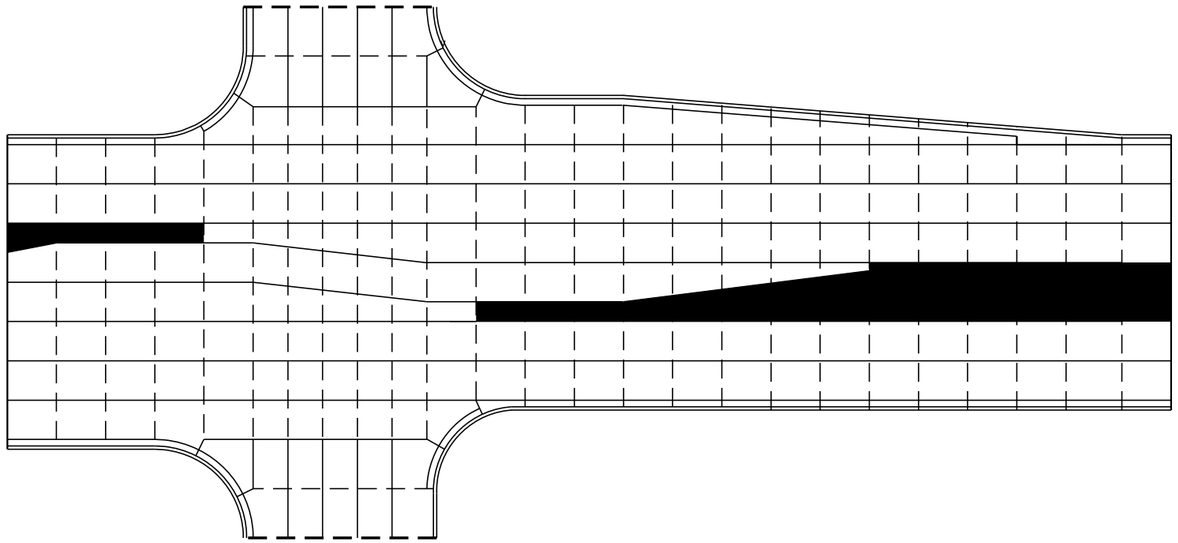
6
S.D.D. 13 C 18-1a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

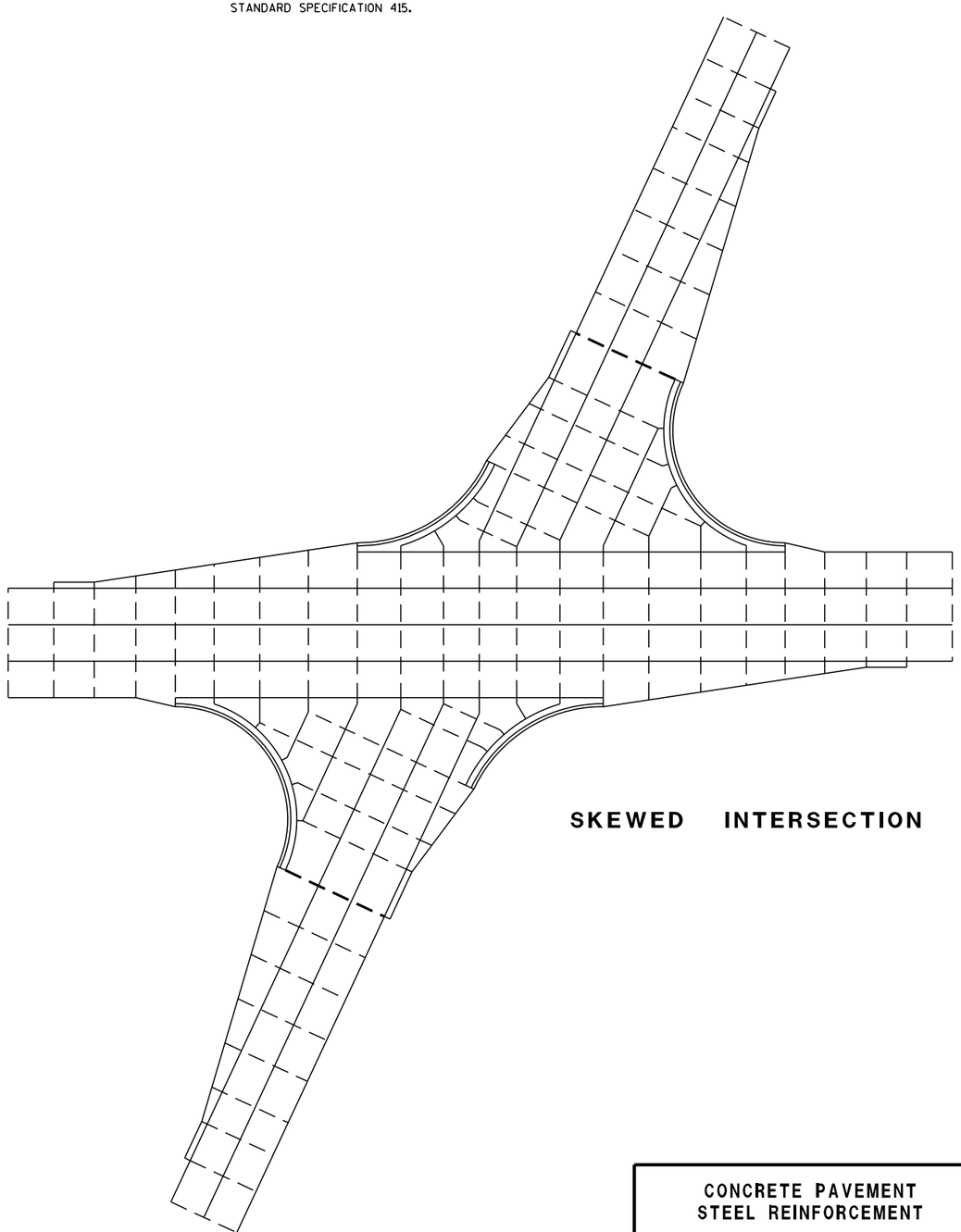
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

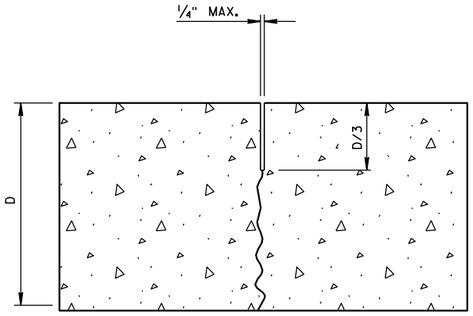
6

S.D.D. 13 C 18-1b

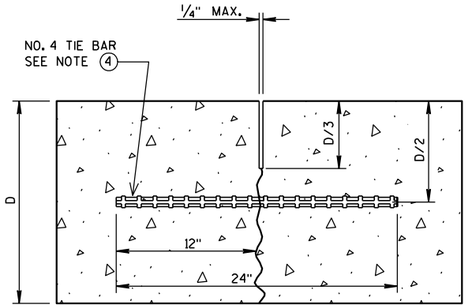
S.D.D. 13 C 18-1b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



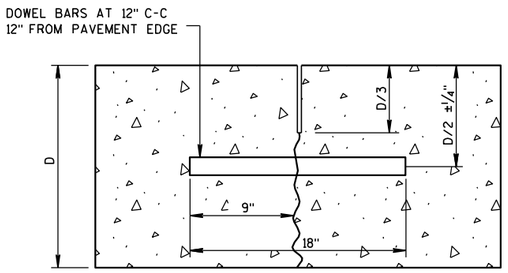
UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

GENERAL NOTES

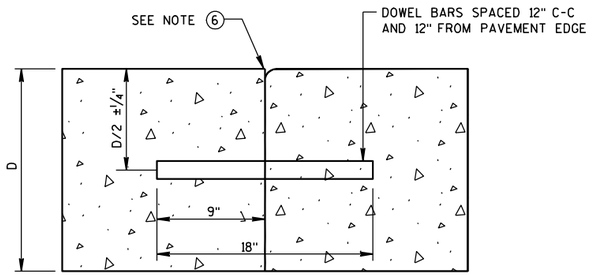
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.
4. SPACE TIE BARS AT LONGITUDINAL CONSTRUCTION OR CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C1.
5. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
6. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.



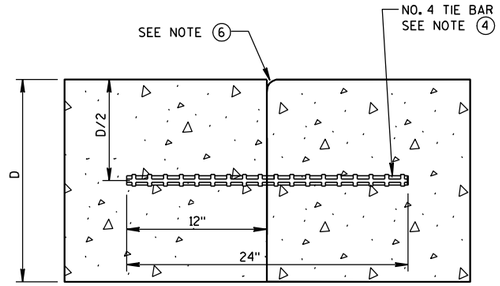
DOWELED-TRANSVERSE

CONTRACTION JOINTS

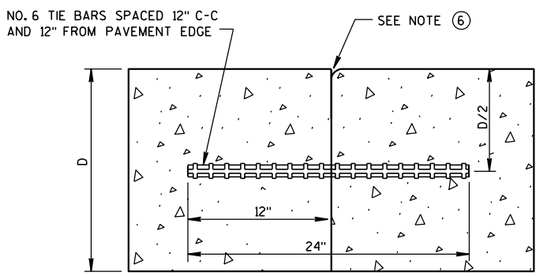
SEE NOTE (2)



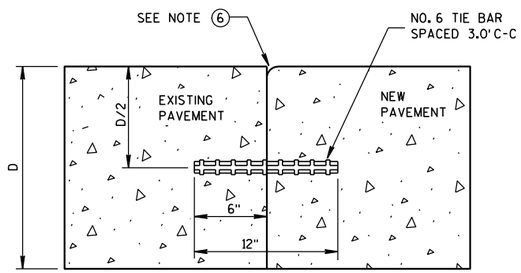
DOWELED TRANSVERSE



TIED LONGITUDINAL



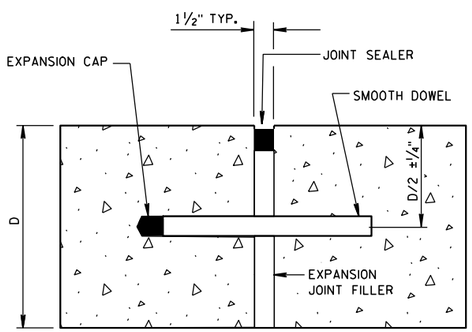
TIED TRANSVERSE
SEE NOTE (3)



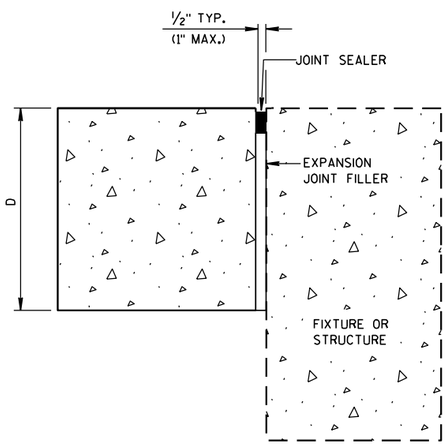
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS

SEE NOTE (5)



DOWELED-TRANSVERSE
SEE NOTE (1)



UNTIED-LONGITUDINAL

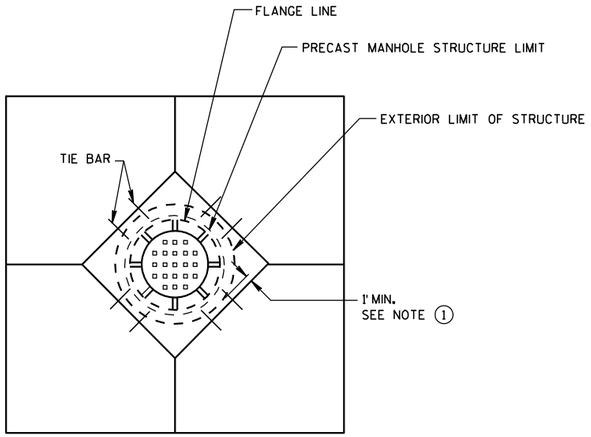
EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

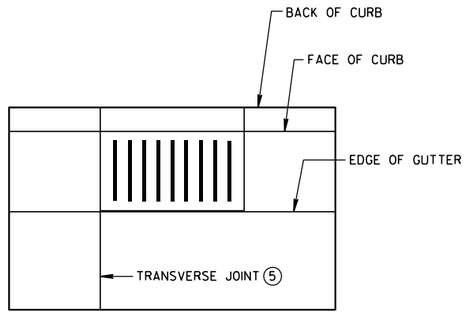
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

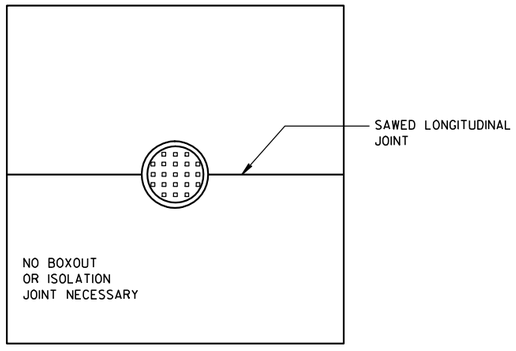
S.D.D. 13 C 18-1c



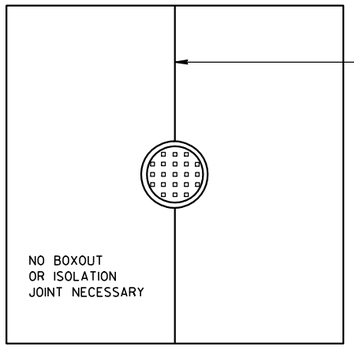
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



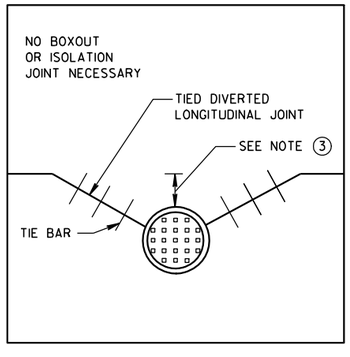
INLET WITH TRANSVERSE JOINT



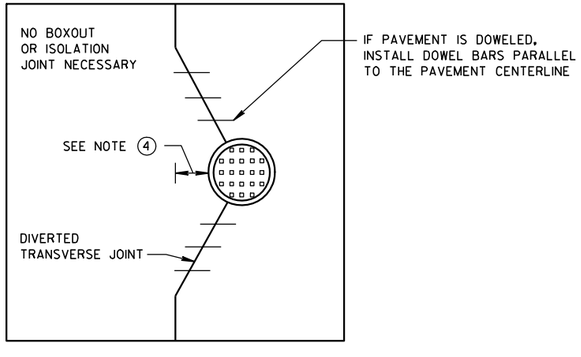
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS GREATER THAN 2 FEET, DO NOT DIVERT JOINT AND SAW LONGITUDINAL JOINT AS NORMAL. IF DISTANCE IS 2 FEET OR LESS, DIVERT LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE.
4. IF DISTANCE FROM THE EDGE OF MANHOLE TO THE NEAREST TRANSVERSE JOINT IS GREATER THAN 4 FEET, REDIRECT JOINT TO INTERSECT MANHOLE. IF DISTANCE IS 4 FEET OR LESS, PLACE REBAR REINFORCEMENT AROUND MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-5-2010 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & D588 ENGINEER
FHWA

6
S.D.D. 13 C 18-1d

LEGEND

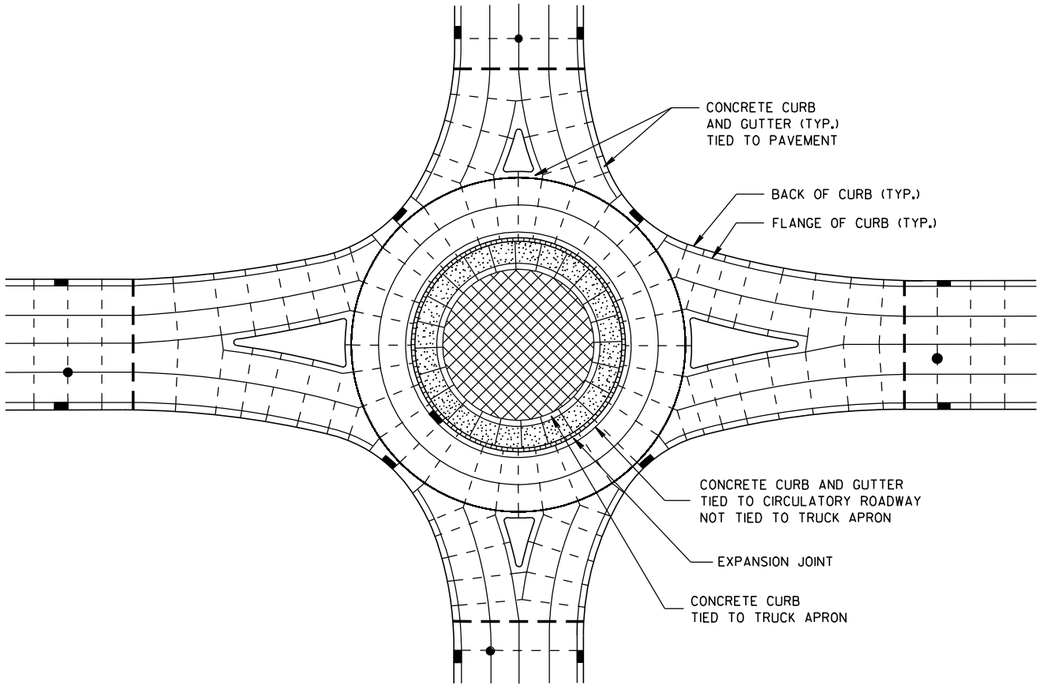
- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES

GENERAL NOTES

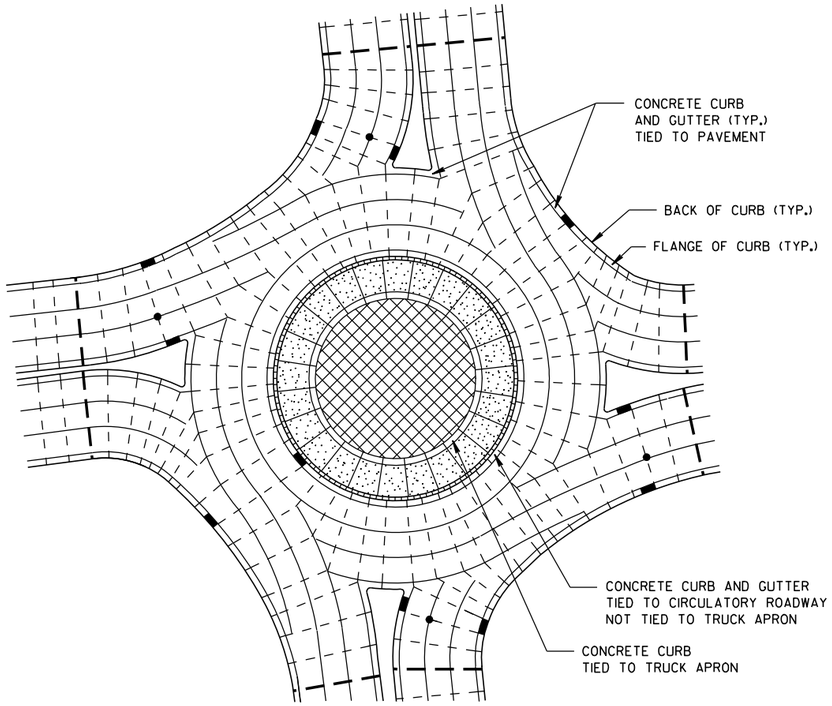
MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18-1a.

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.



ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS



PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10-5-2010 DATE

/S/ Deb Bischoff
PAVEMENT POLICY & DI 589 INEER

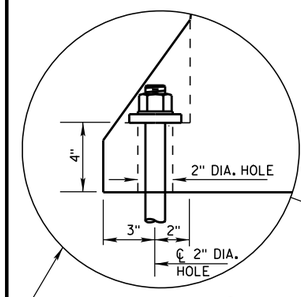
FHWA

6

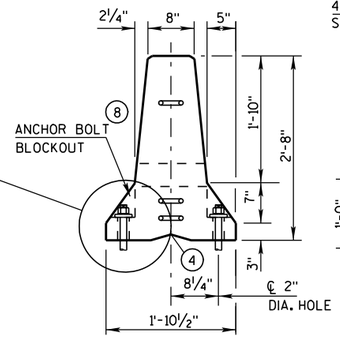
S.D.D. 13 C 18-1e

6

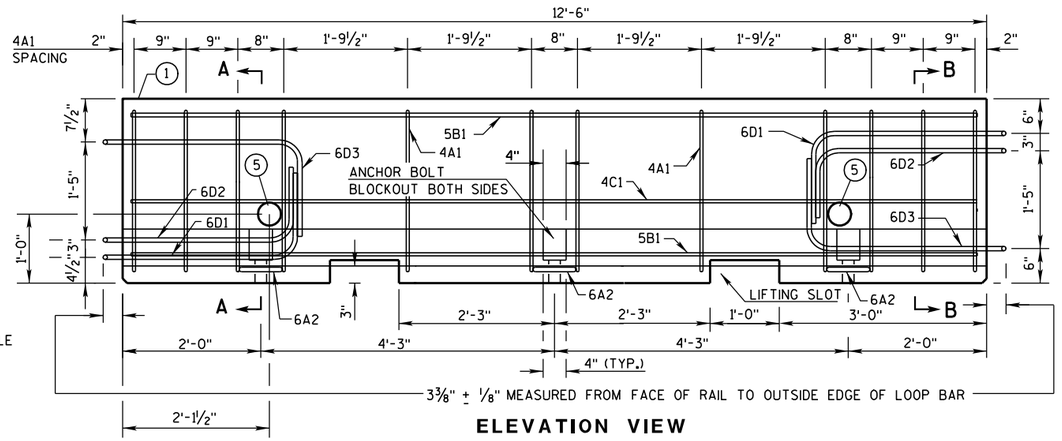
S.D.D. 13 C 18-1e



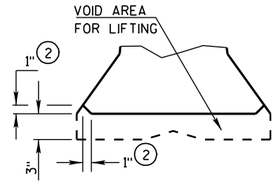
ANCHOR ON TRAFFIC SIDE (8) ONLY WHEN REQUIRED (SEE SHEET D FOR ADDITIONAL ANCHOR DETAIL)



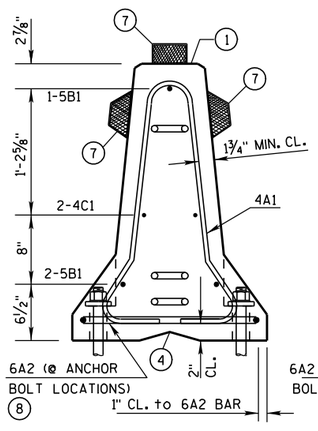
END VIEW



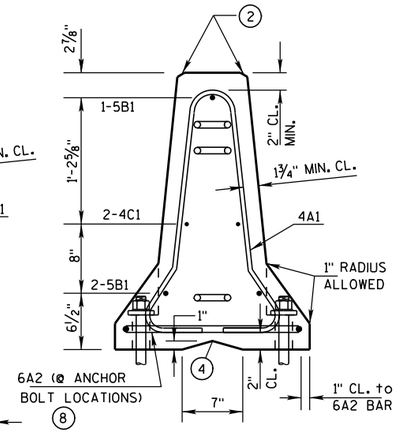
ELEVATION VIEW



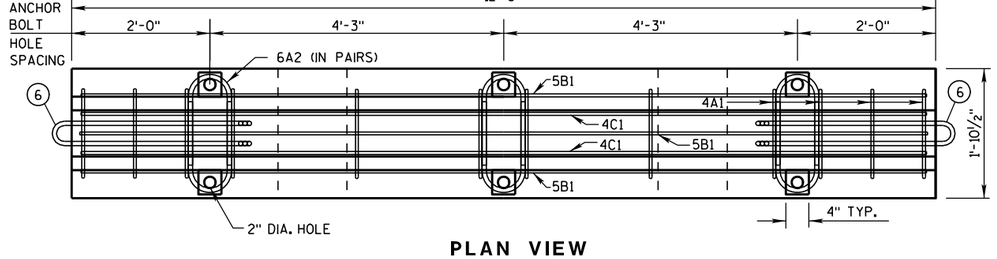
DETAIL "B" LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)

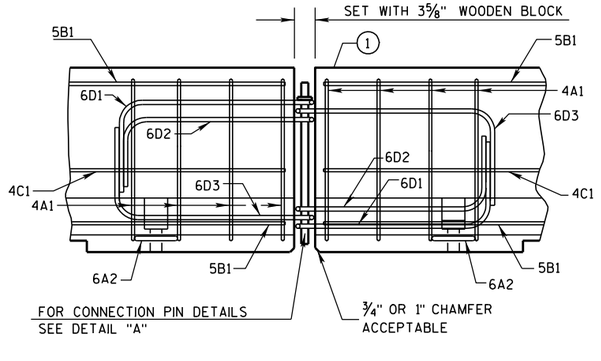


SECTION B-B
(STIRRUP PLACEMENT)

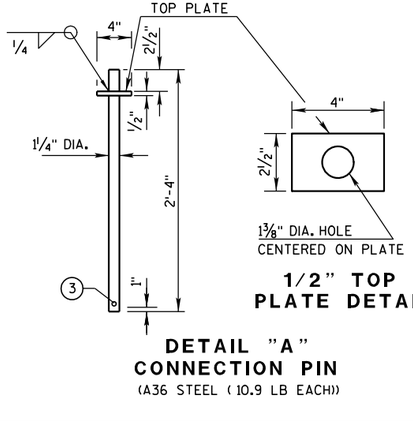


PLAN VIEW

DETAILS OF BARRIER SECTION

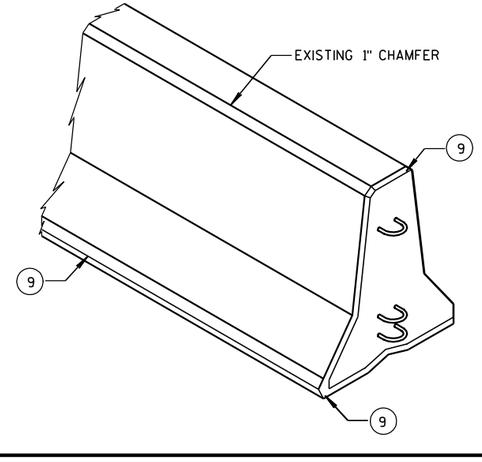


DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A" CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-13(a) THRU 14B7-13(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR EPOXY ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WICBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

(8) SEE SHEET D FOR ANCHORING CRITERIA.

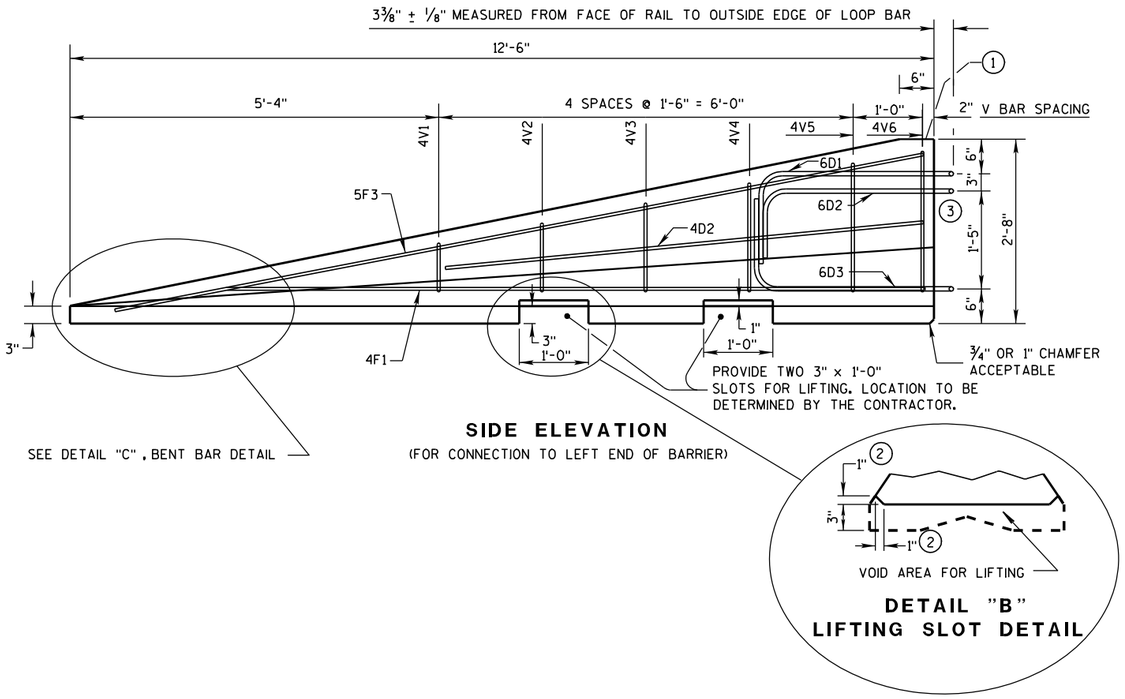
(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO.....T

6

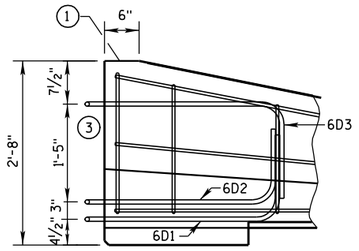
S.D.D. 14 B 7-13a



SIDE ELEVATION

(FOR CONNECTION TO LEFT END OF BARRIER)

DETAIL "B"
LIFTING SLOT DETAIL



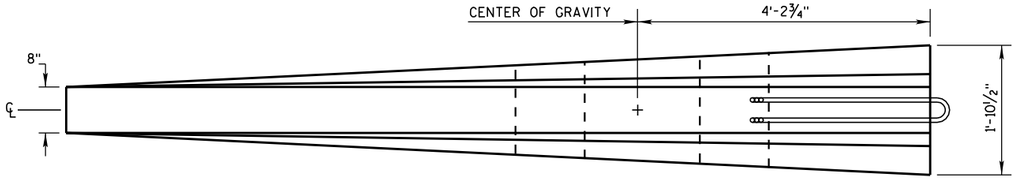
SIDE ELEVATION

LOOP BAR ASSEMBLY INVERTED FOR OPPOSITE END.

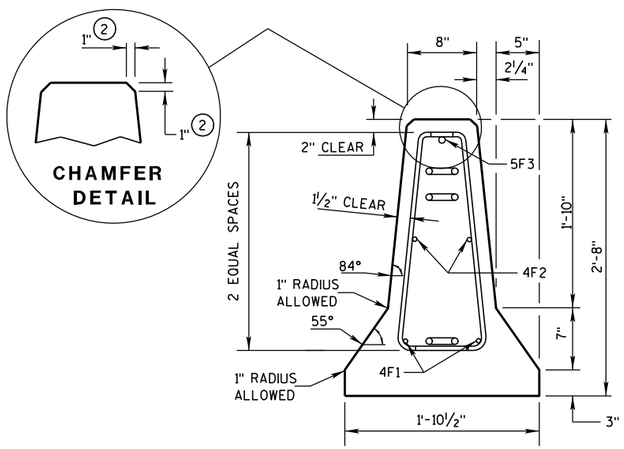
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

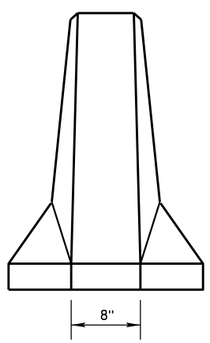
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



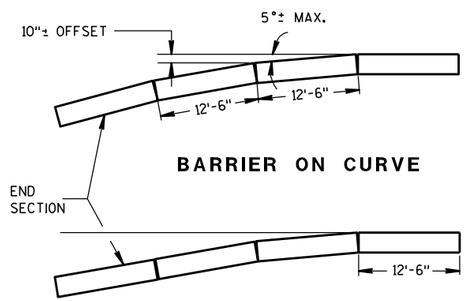
PLAN VIEW



END SECTION



FRONT ELEVATION



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 7-13b

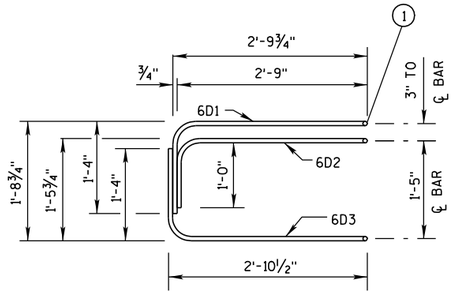
6

S.D.D. 14 B 7-13b

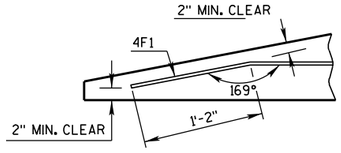
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

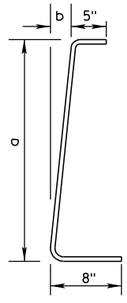
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



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

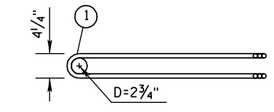
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

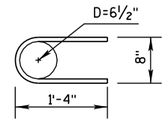
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

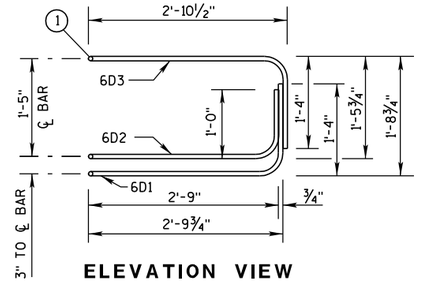
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



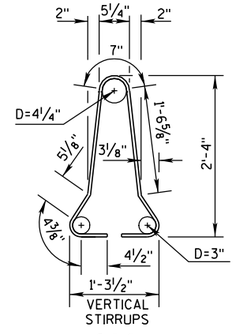
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



ELEVATION VIEW



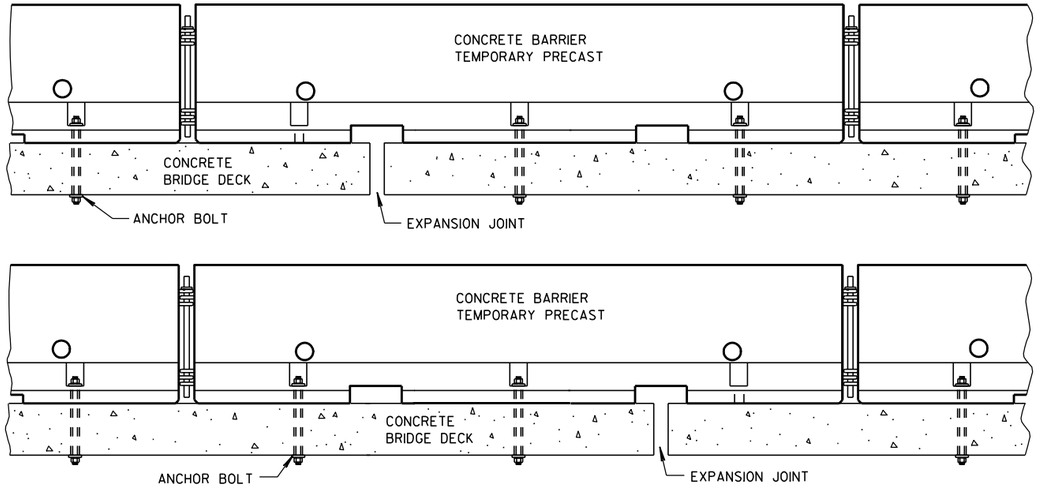
4A1

BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

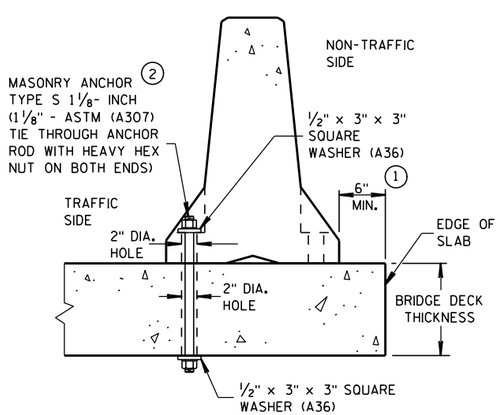
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 7-13c



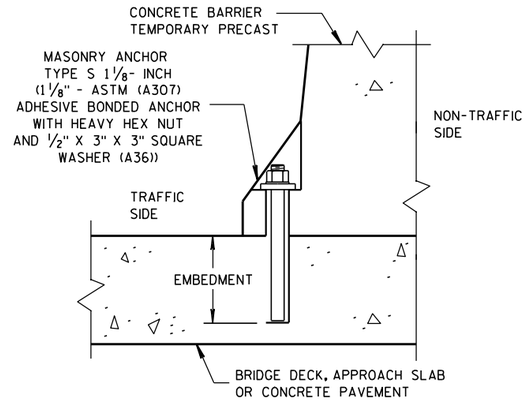
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

2

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

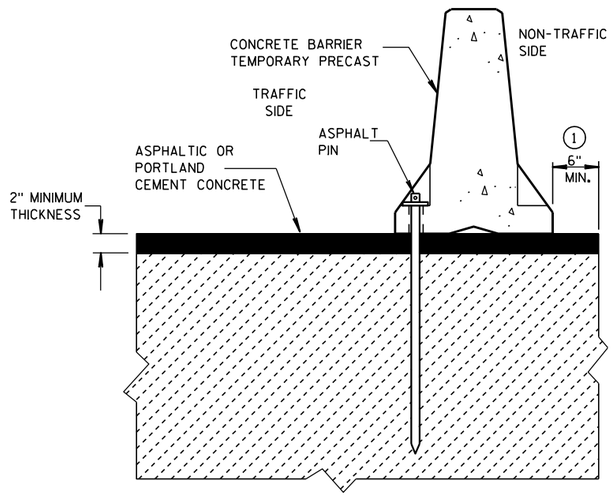
1. CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
   THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

   THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

2. ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

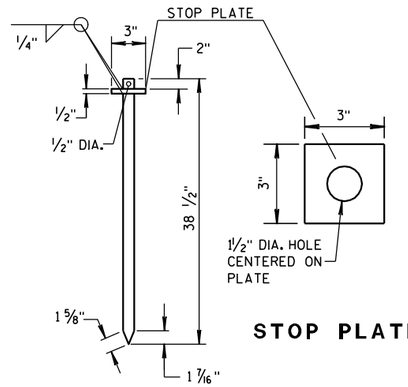
   WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

   UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

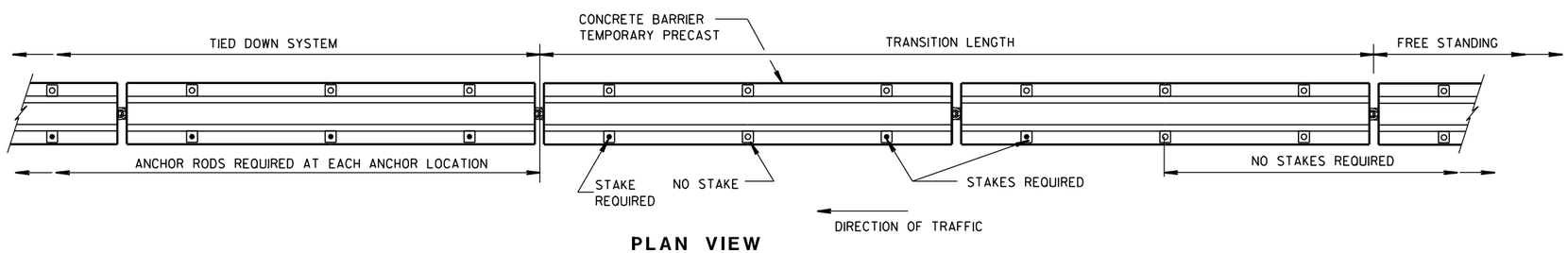
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN

(ASTM A36 STEEL)



PLAN VIEW

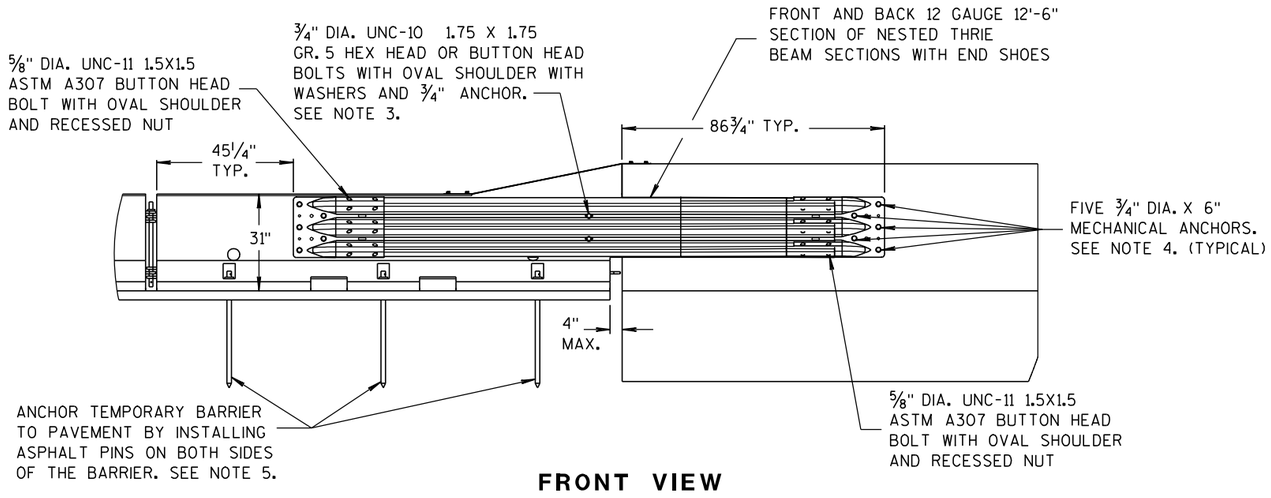
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

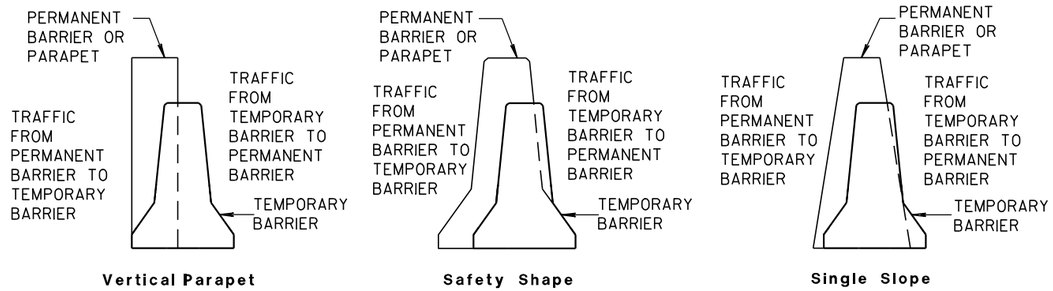
6
S.D.D. 14 B 7-13d

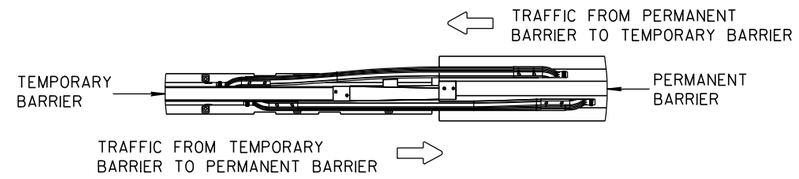


FRONT VIEW

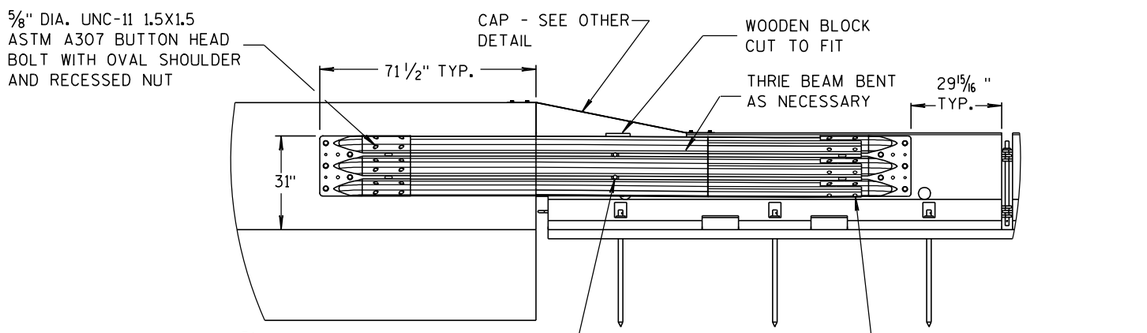
NOTES

1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 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.

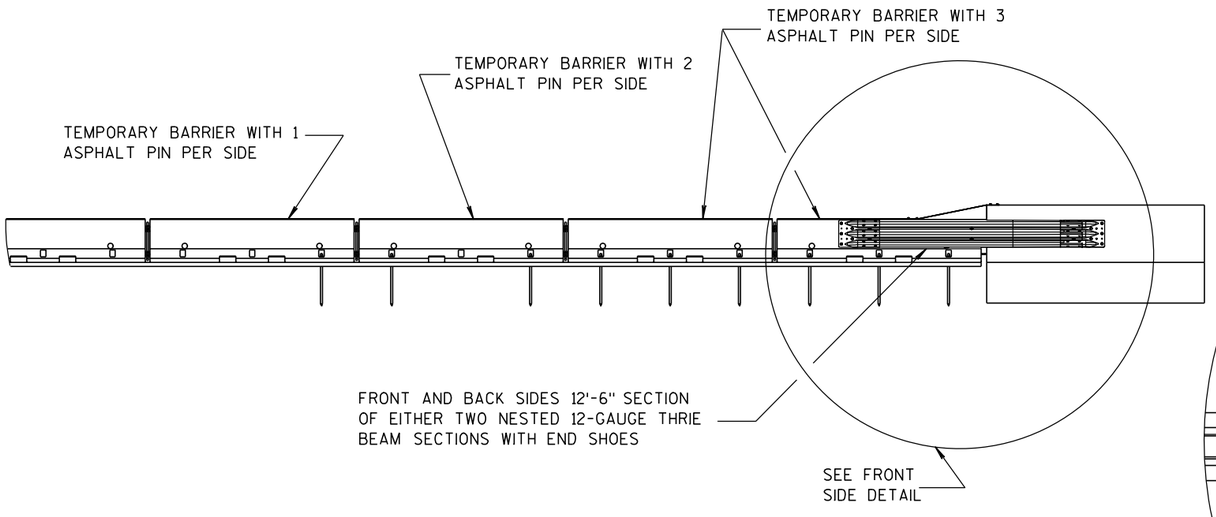




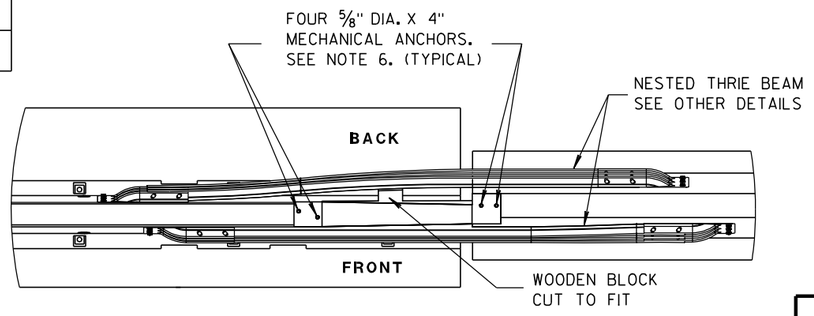
TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM



BACK VIEW



FRONT VIEW



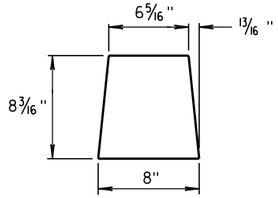
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

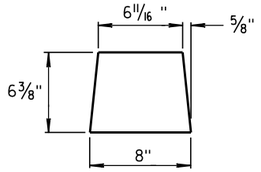
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

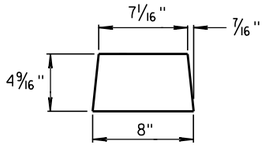
6
S.D.D. 14 B 7-13e



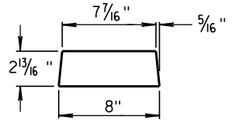
GUSSET 1



GUSSET 2

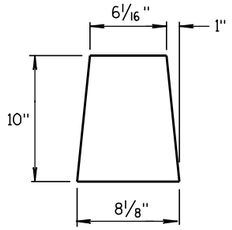


GUSSET 3

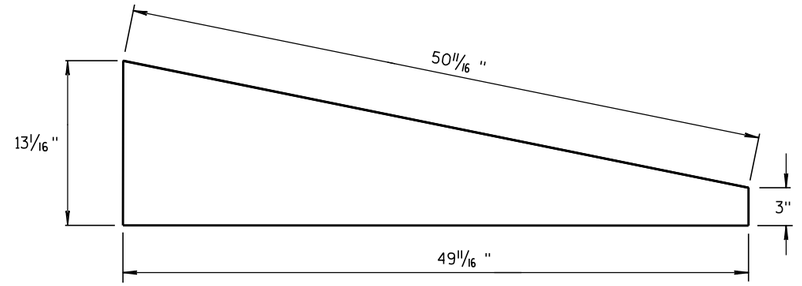


GUSSET 4

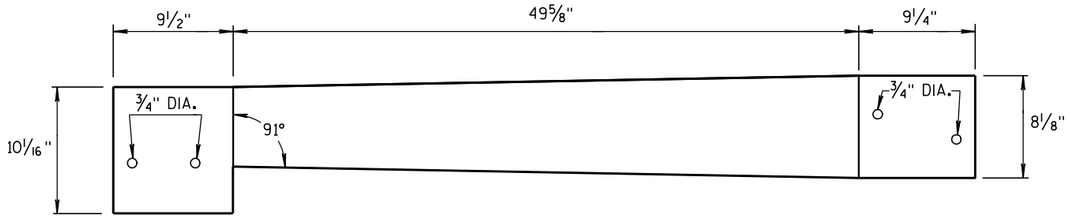
GUSSETS

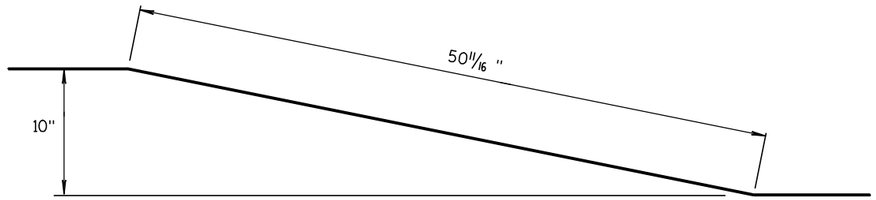


END PLATE

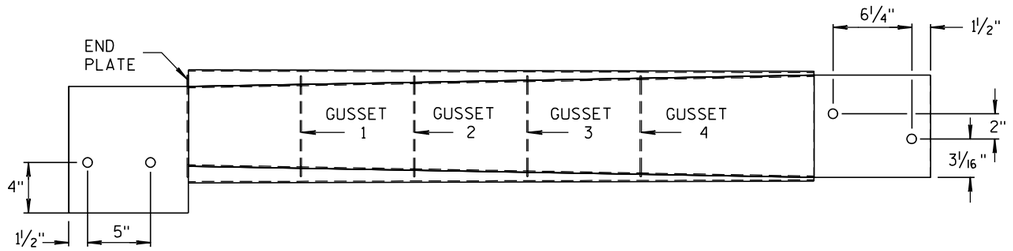


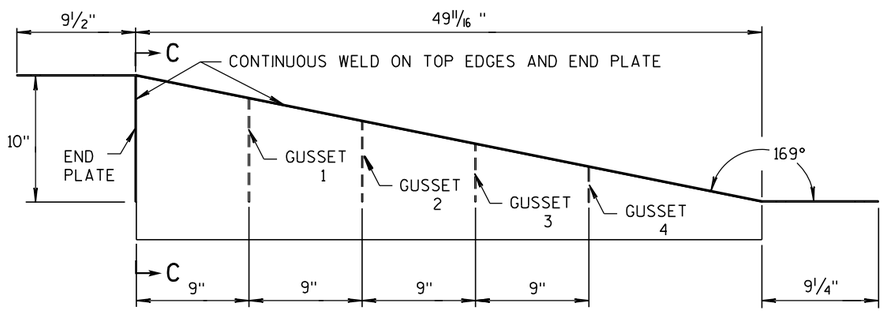
SIDE PLATE

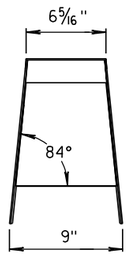




TOP PLATE







SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

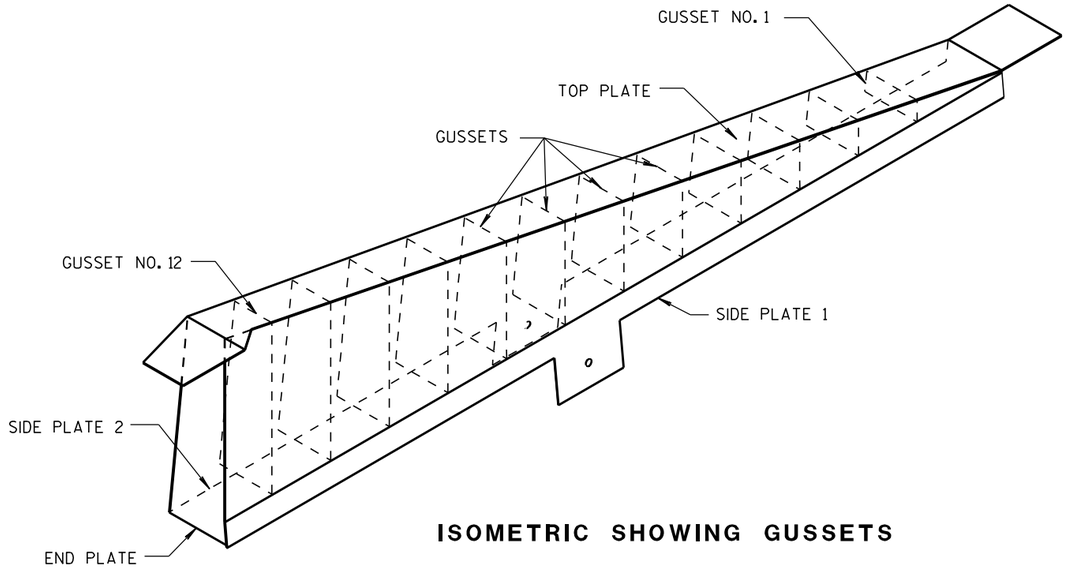
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

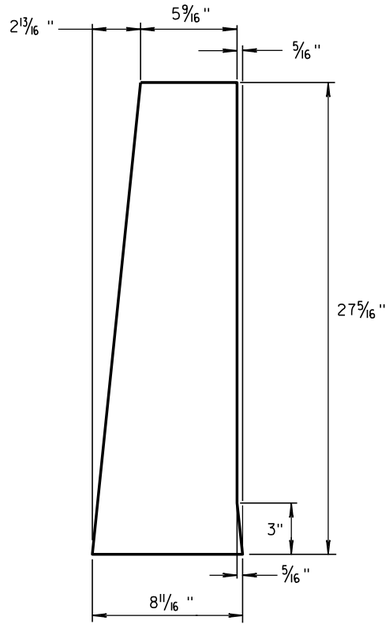
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

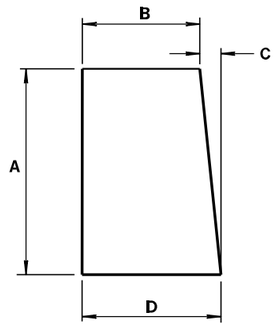


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



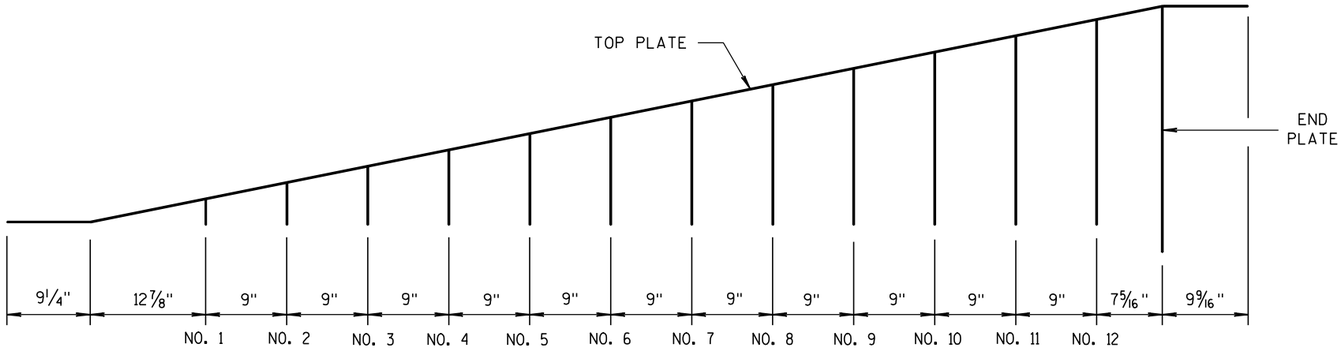
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

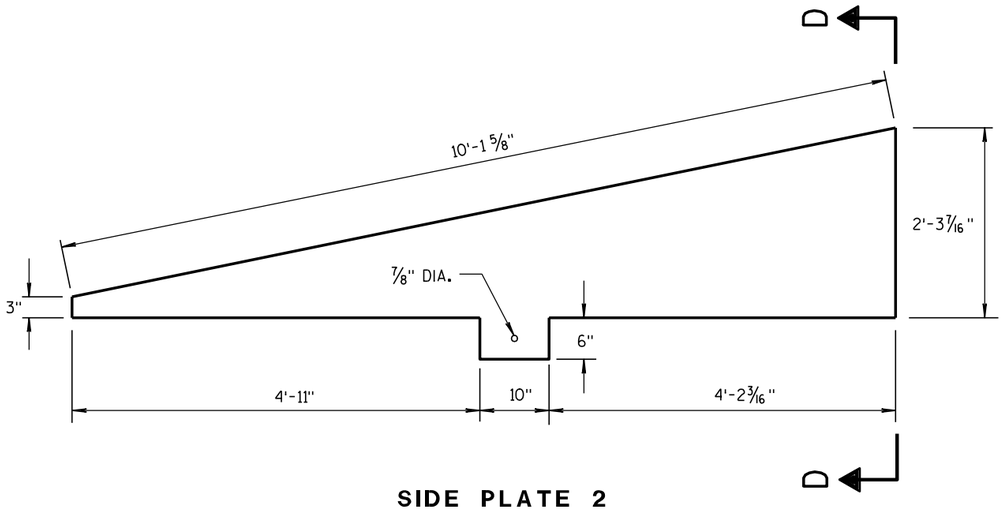
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

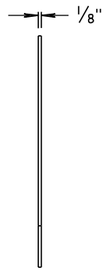
S.D.D. 14 B 7-13g

6

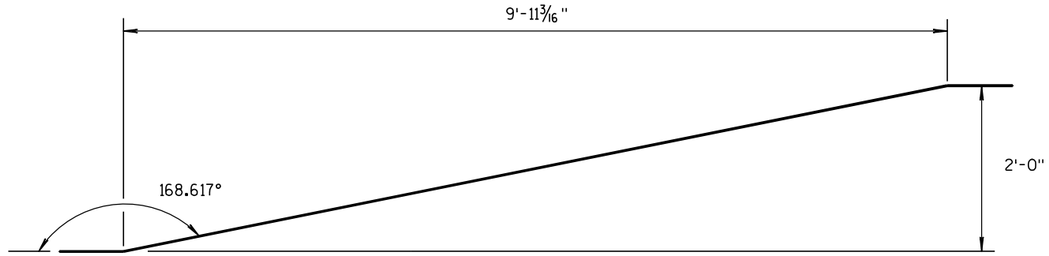
S.D.D. 14 B 7-13g



SIDE PLATE 2

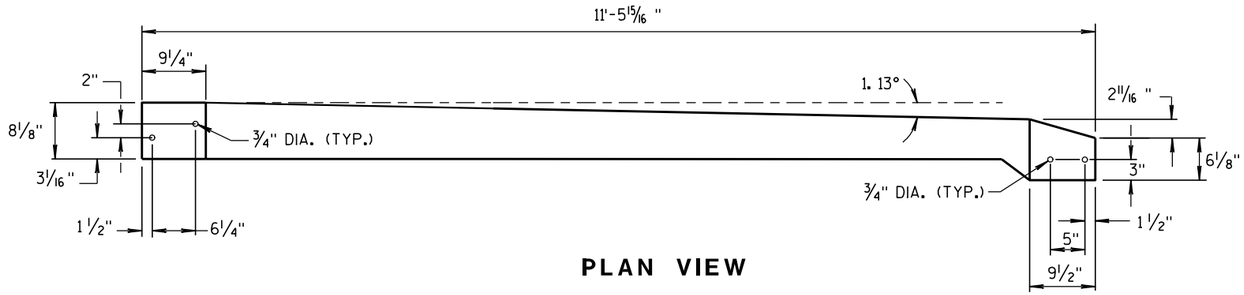


END VIEW



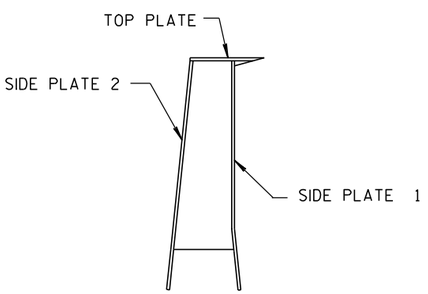
SIDE VIEW

TOP PLATE

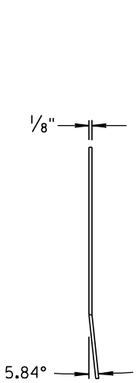


PLAN VIEW

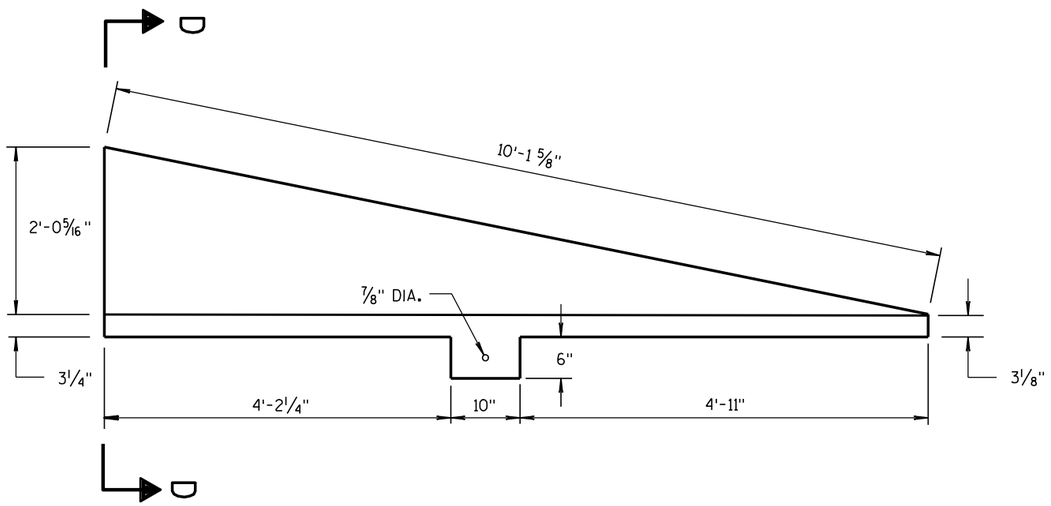
TOP PLATE



SECTION D-D



END VIEW



SIDE PLATE 1

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

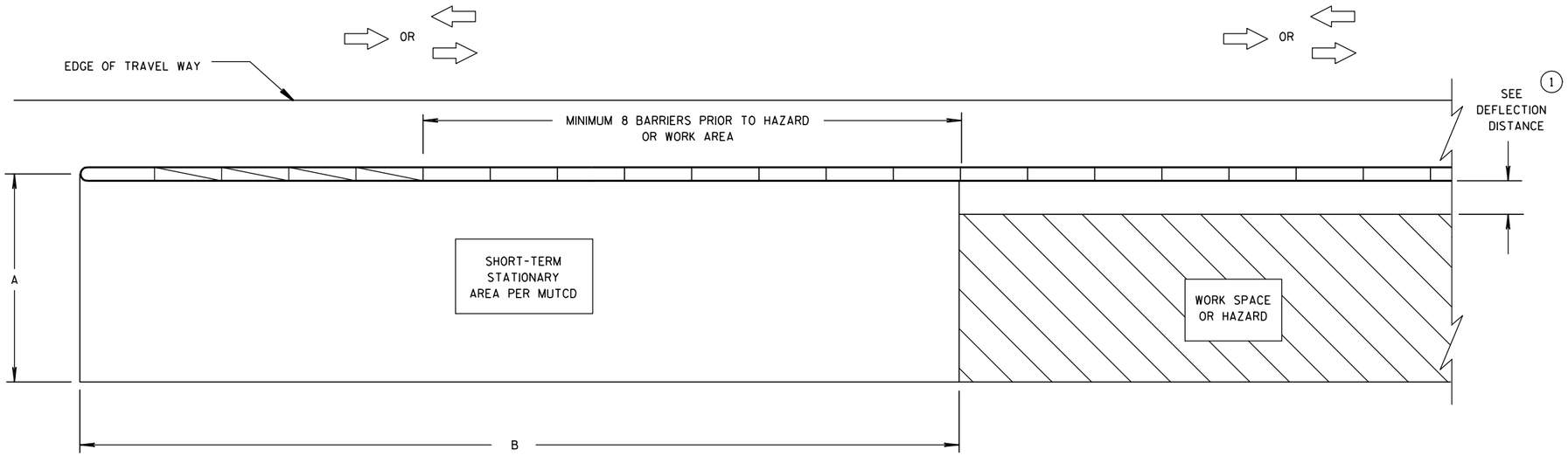
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED 8/31/2012 DATE /S/ Jerry H. ROADWAY STANDARDS ENGINEER 597 ENT FHWA

6

S.D.D. 14 B 7-13h

6

S.D.D. 14 B 7-13h



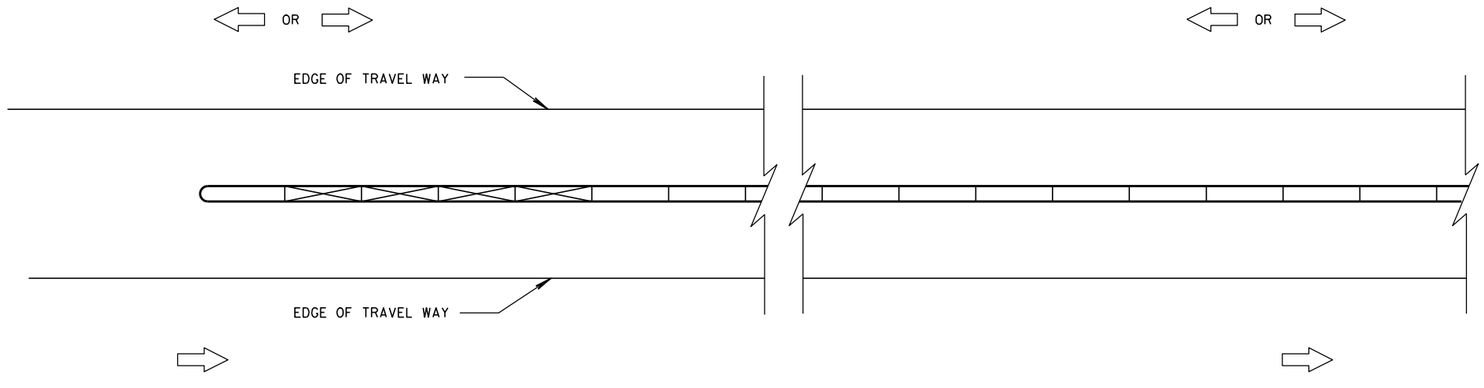
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

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.

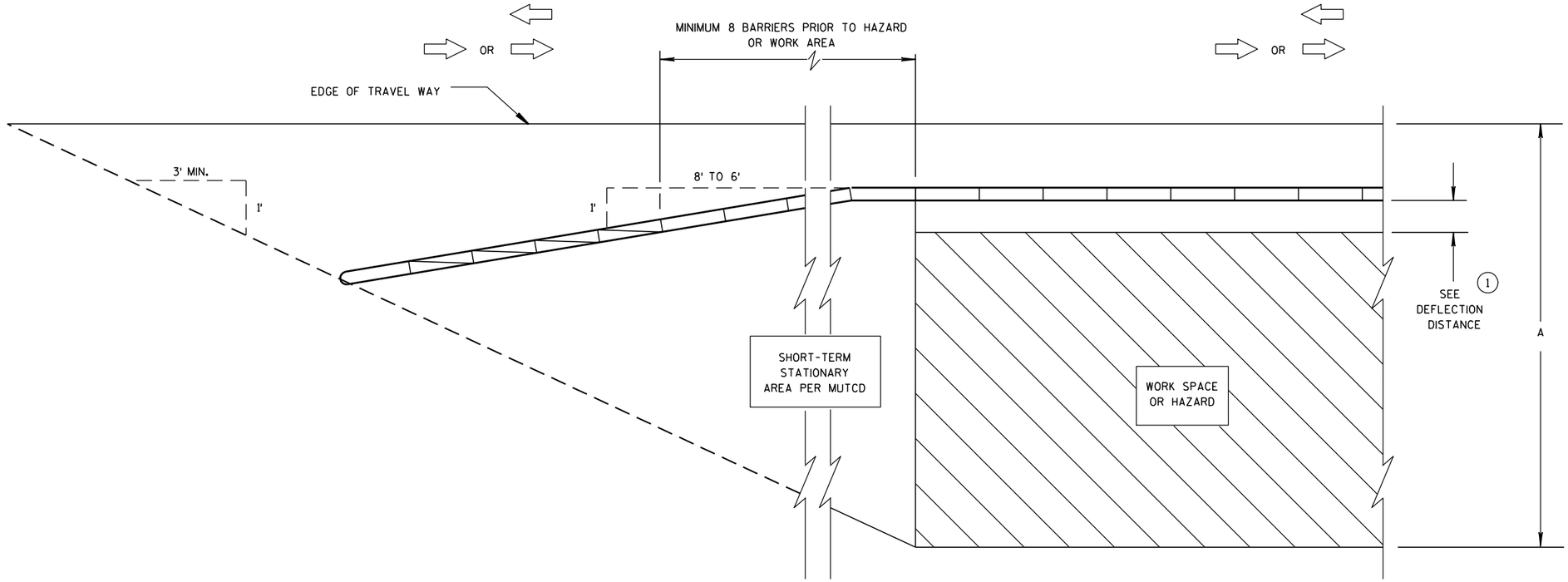
(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

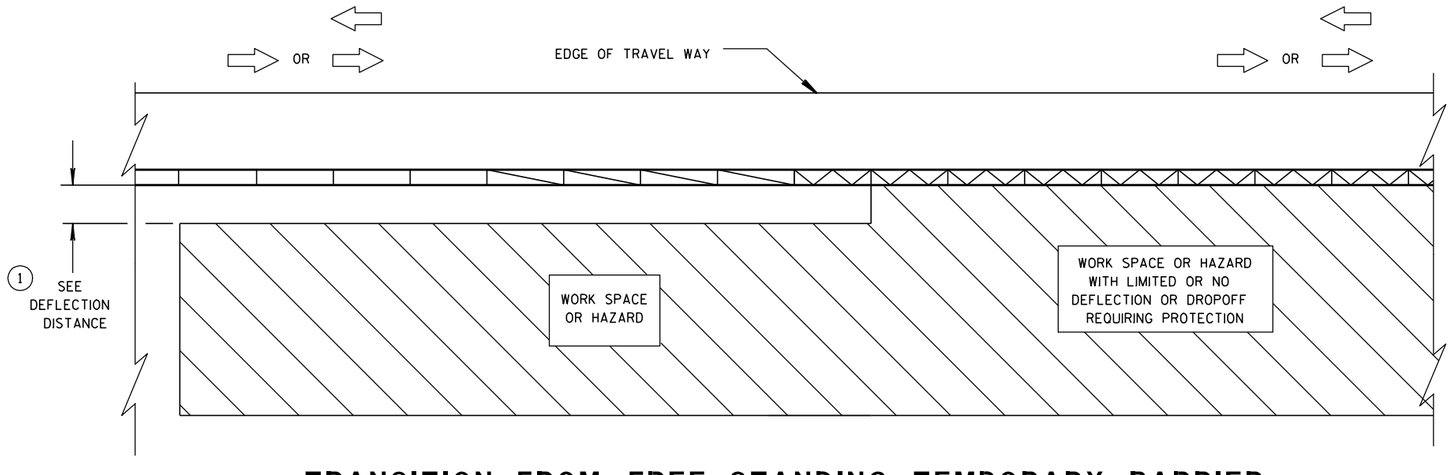
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO...

6

S.D.D. 14 B 8-1a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

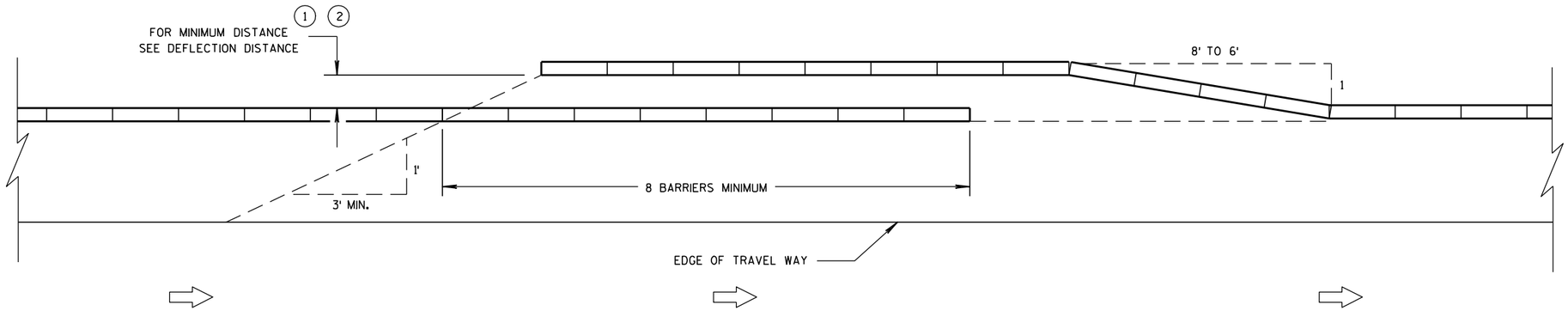
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

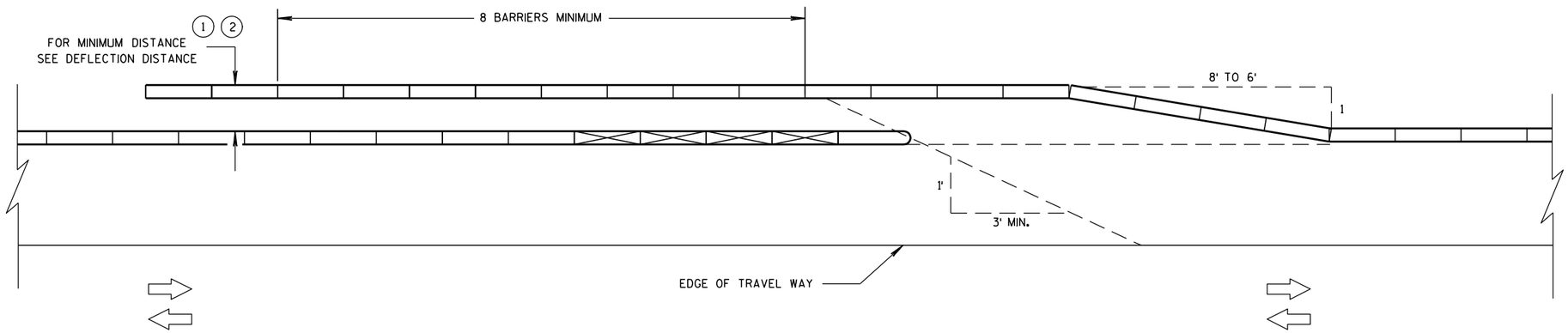
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

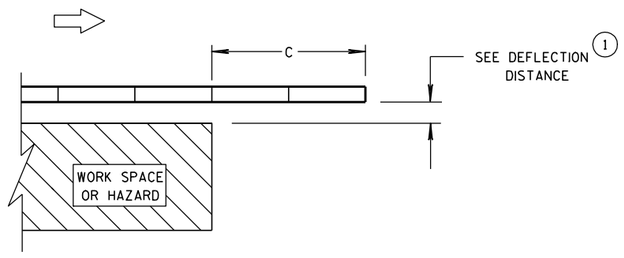
S.D.D. 14 B 8-1b



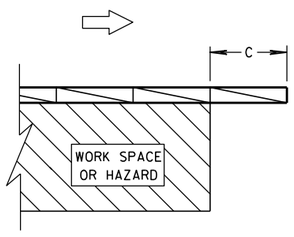
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

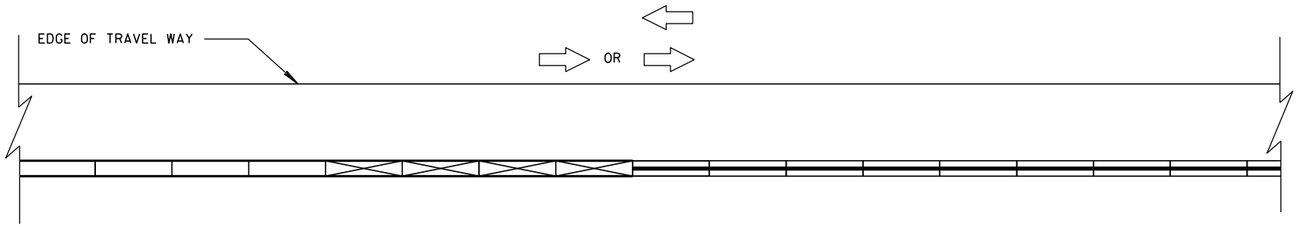
LEGEND

- 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

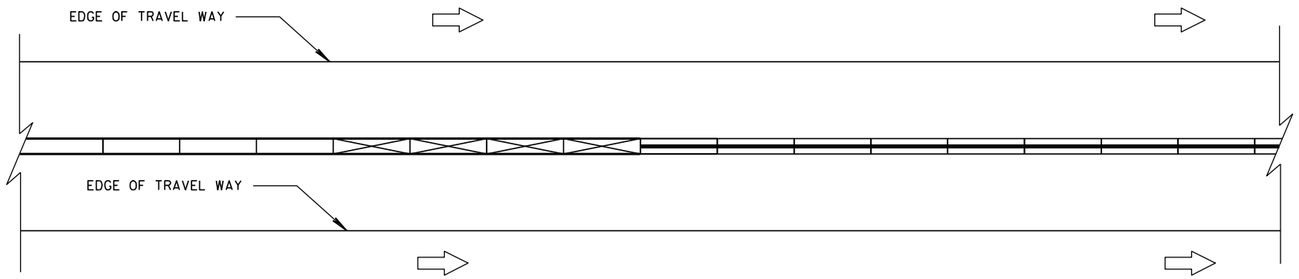
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

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

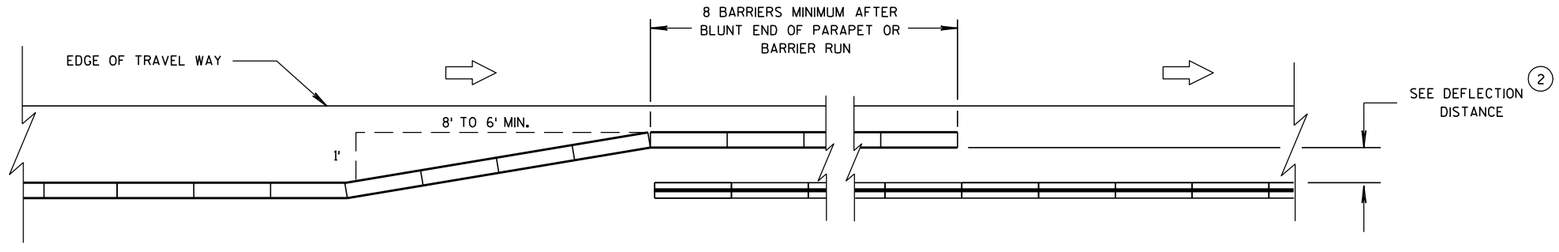
SEE FREE STANDING TRANSITION
TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

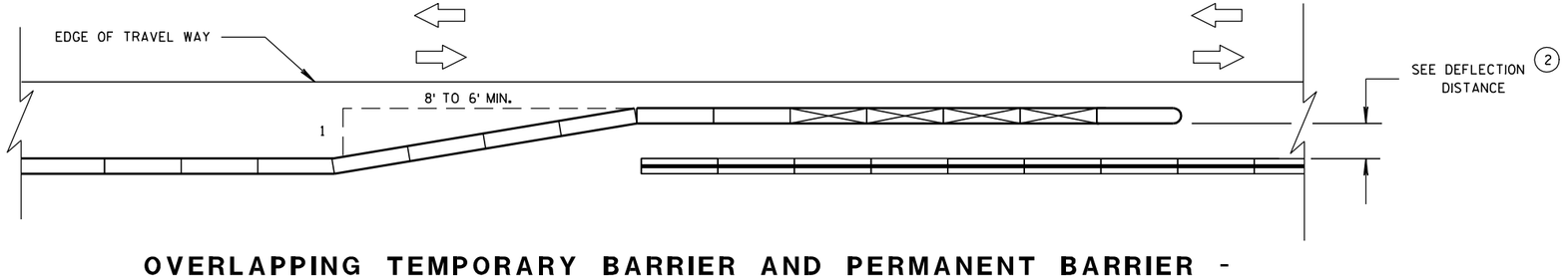
3 PINS PLACED ON
TRAFFIC SIDE OF BARRIER

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...

6
S.D.D. 14 B 8-1d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

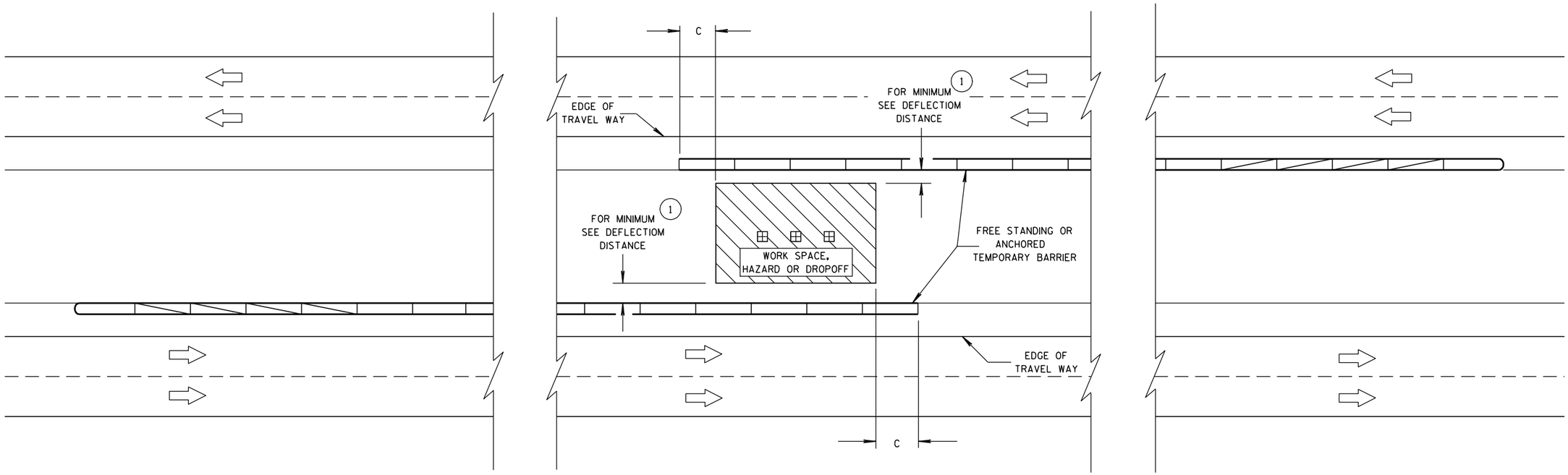
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINNER

602

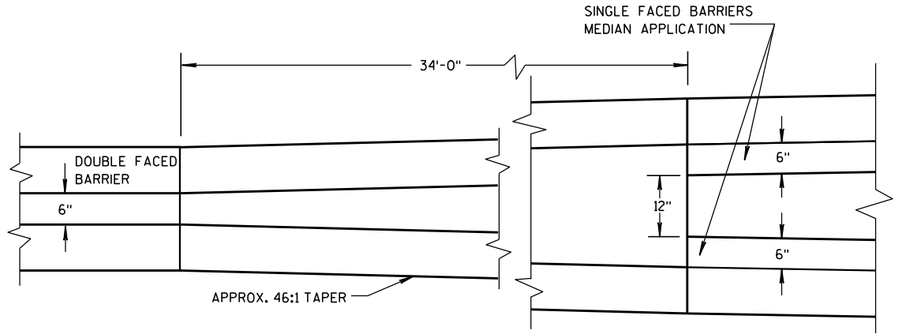
FHWA

6

S.D.D. 14 B 8-1e

6

S.D.D. 14 B 8-1e



PLAN VIEW

TRANSITION DETAILS OF DOUBLE FACED TO SINGLE FACED CONCRETE MEDIAN BARRIER

(FOOTINGS ARE NOT SHOWN)

GENERAL NOTES

SPLICES OF LONGITUDINAL BARS SHALL BE MADE WITH BARS LAPPED AT LEAST 18-INCHES AND FIRMLY TIED OR FASTENED TOGETHER.

ALL BAR STEEL REINFORCEMENT SHALL CONFORM TO REQUIREMENTS OF AASHTO M31, GRADE 60.

(1) BARRIER SHALL BE INSTALLED ON A CONCRETE SHOULDER INSTEAD OF THE CONCRETE FOOTING WHEN SPECIFIED OR SHOWN ELSEWHERE IN CONTRACT.

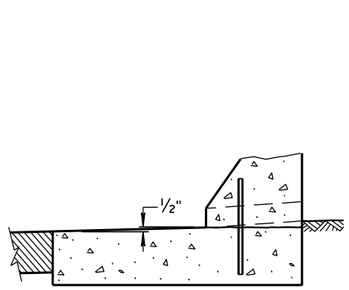
(2) OPENINGS FOR DRAINAGE SHALL BE PLACED AT LOW POINTS OF VERTICAL CURVES OR WHERE DIRECTED BY THE ENGINEER.

(3) ¾-INCH BEVEL OR 1-INCH RADIUS (TYPICAL).

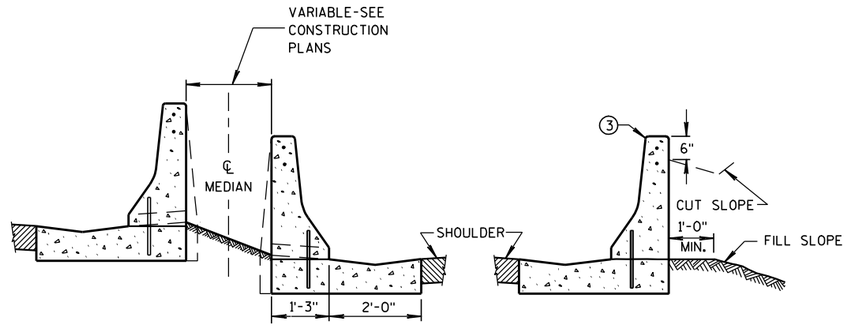
(4) NO. 4 BARS SHALL BE CONTINUED THROUGH CONSTRUCTION JOINTS.

(5) EXPANSION JOINTS SHALL BE PLACED AT EXISTING EXPANSION JOINTS IN THE PAVEMENT AND AT STRUCTURES. SEE REINFORCEMENT AT BARRIER END DETAIL.

(6) SAWED CONTRACTION JOINTS SHALL BE PROVIDED ACROSS THE FULL WIDTH OF THE BARRIER FOOTING, AND IN FRONT, TOP AND BACK FACE OF THE BARRIER AT EXISTING PAVEMENT JOINTS AND AT UNIFORM INTERVALS BETWEEN WITH A MAXIMUM SPACING OF 25 FEET.

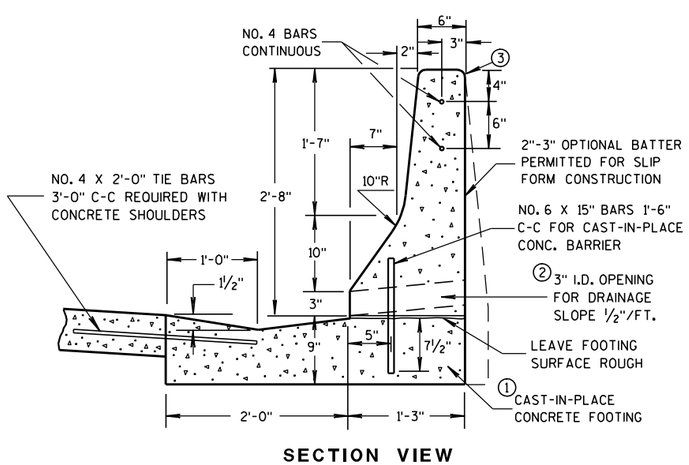


HIGH SIDE
CONCRETE BARRIER DETAIL

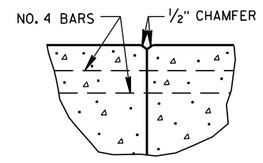


MEDIAN **SHOULDER**

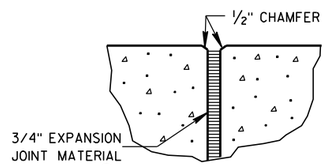
TYPICAL APPLICATIONS



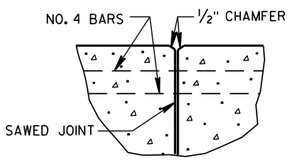
SECTION VIEW



4 **CONSTRUCTION JOINT**



5 **EXPANSION JOINT**



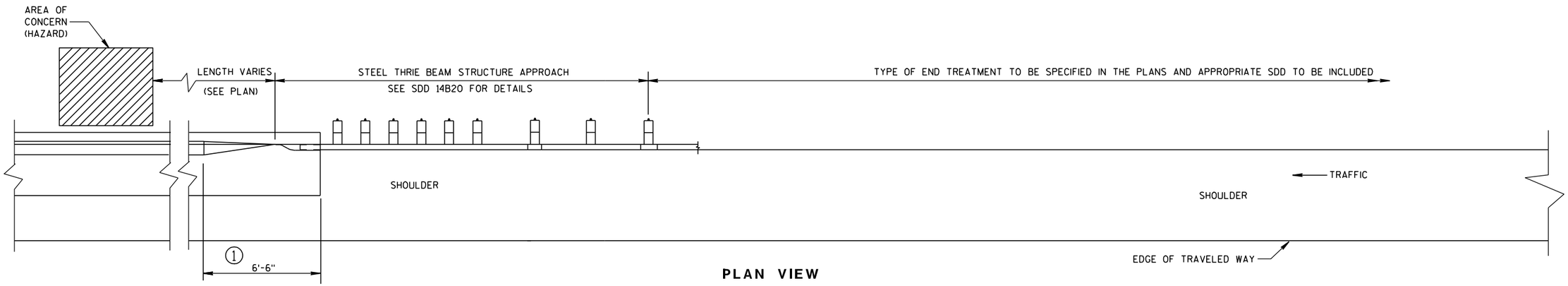
6 **CONTRACTION JOINT**

JOINT DETAILS

CONCRETE BARRIER
SINGLE-FACED
(WITH ANCHORAGE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 22-5a



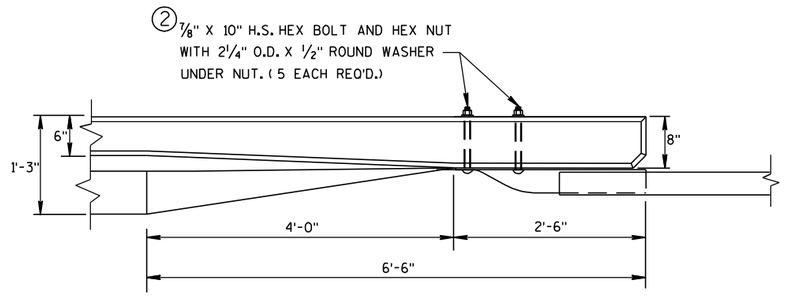
PLAN VIEW

TRANSITION TO STEEL PLATE BEAM GUARD AND END TERMINAL

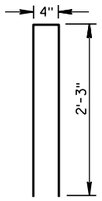
GENERAL NOTES

1. A SPECIAL END IS REQUIRED ON THE CONCRETE BARRIER TO TRANSITION TO A CONNECTION WITH THE STEEL THRIE BEAM STRUCTURE APPROACH. SEE THE DETAILS ON THIS SHEET.
2. HIGH STRENGTH BOLTS SHALL MEET REQUIREMENTS OF ASTM A325.
3. REINFORCEMENT REQUIRED AT EXPANSION JOINTS AND WHERE CONCRETE BARRIER IS TERMINATED.
4. PLACE REINFORCEMENT SUCH THAT IT WILL NOT CONFLICT WITH THE BOLT HOLES IN THE THRIE BEAM TERMINAL CONNECTOR.

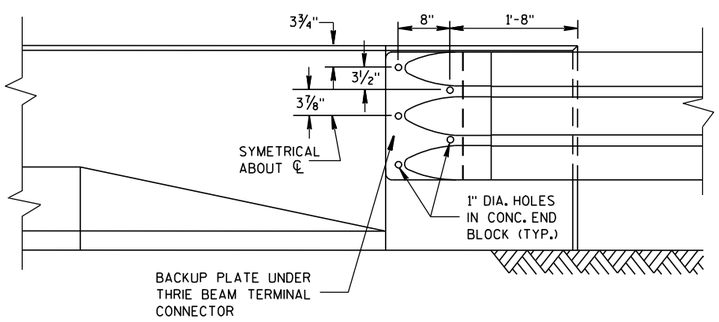
DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.



PLAN VIEW

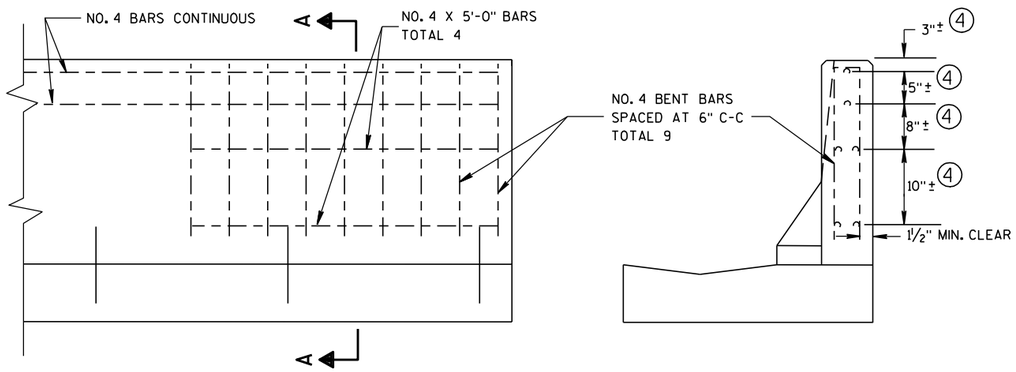


BENT BAR DETAIL



FRONT VIEW

CONCRETE BARRIER TRANSITION TO THRIE BEAM



FRONT VIEW **SECTION A-A**

3 REINFORCEMENT AT BARRIER END

CONCRETE BARRIER, SINGLE-FACED (WITH ANCHORAGE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4/12/10 DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

604 ENT

FHWA

6

S.D.D. 14 B 22-5b

6

S.D.D. 14 B 22-5b

GENERAL NOTES

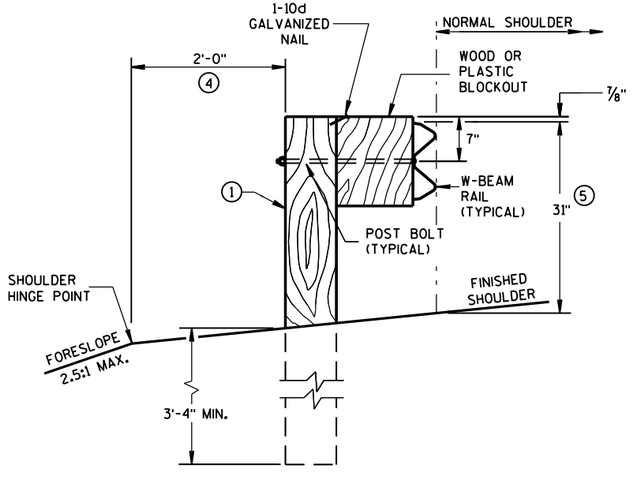
1. WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

2. USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

3. IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

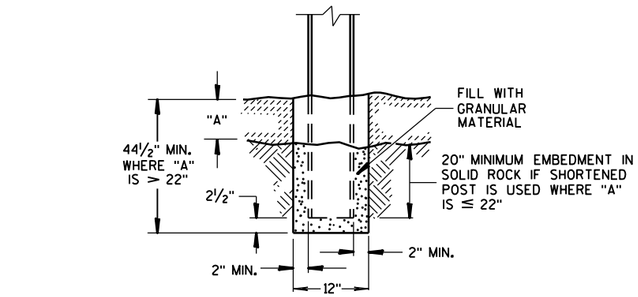
4. WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

5. FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".



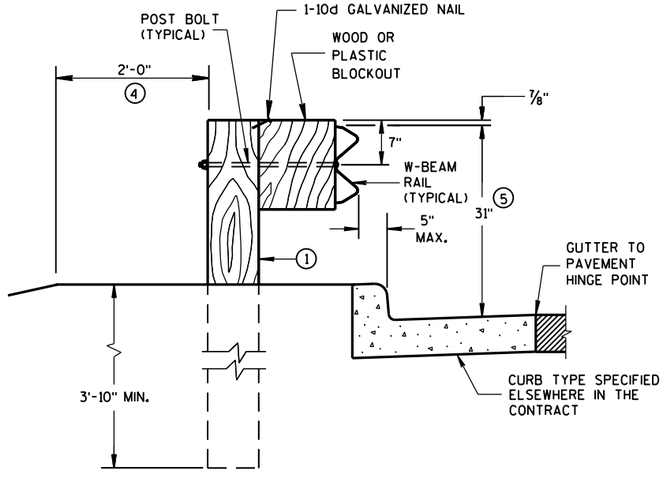
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



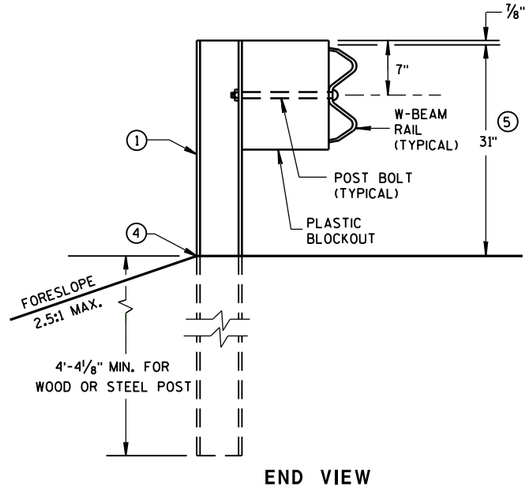
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



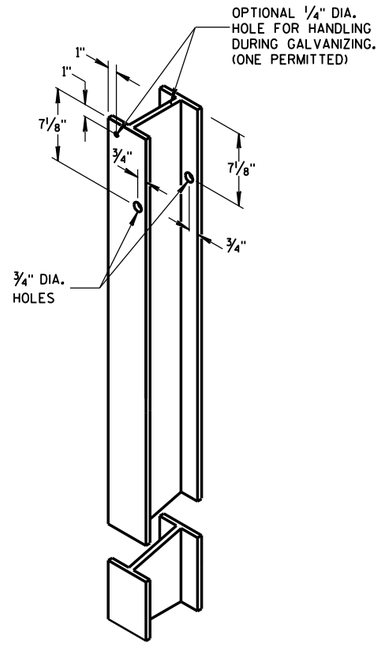
END VIEW

LOCATED ALONG A CURBED ROADWAY

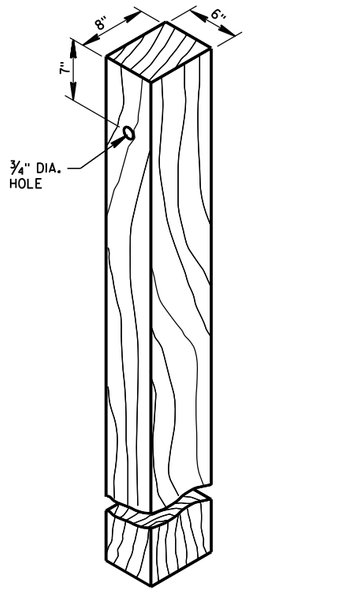


END VIEW

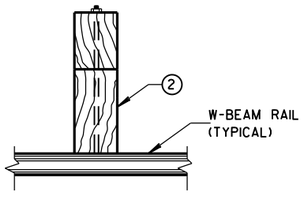
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



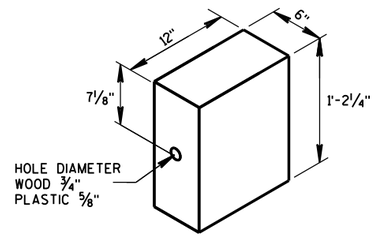
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



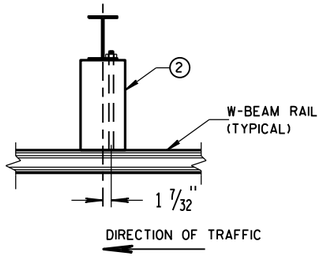
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②

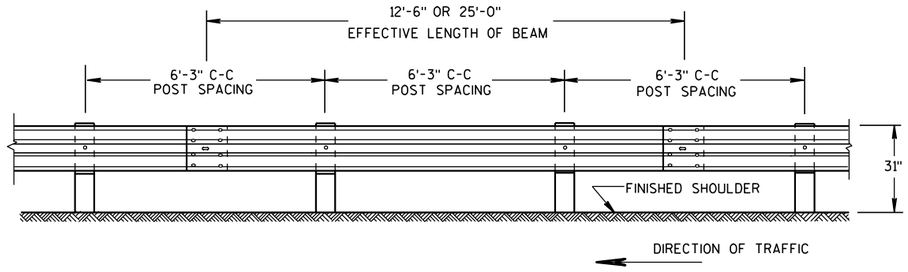


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

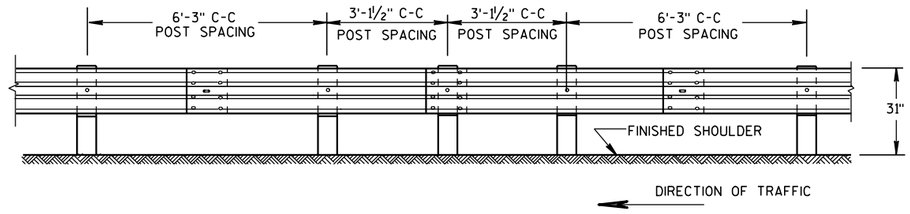
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 42-2a



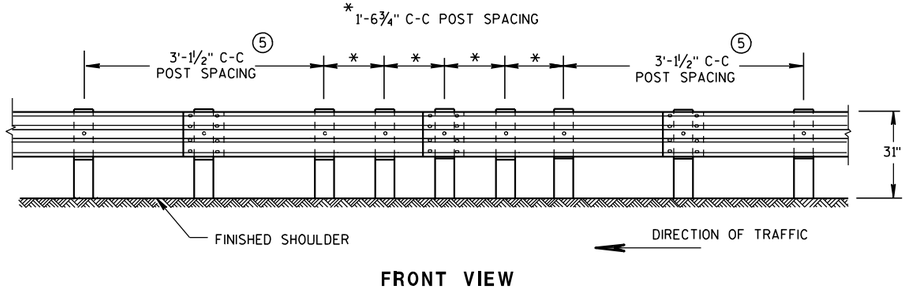
FRONT VIEW

POST SPACING STANDARD INSTALLATION



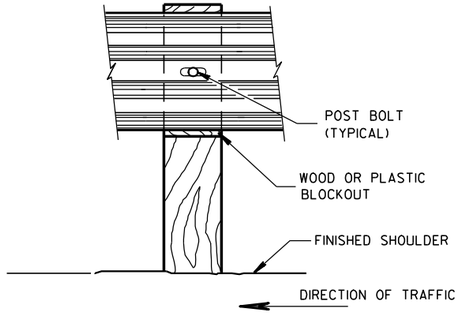
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

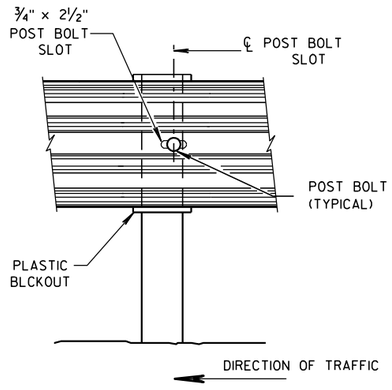


FRONT VIEW

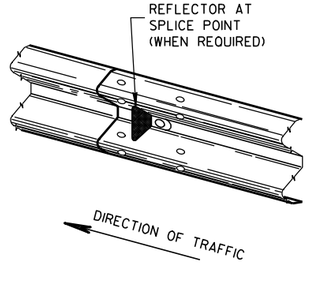
QUARTER POST SPACING (QS)

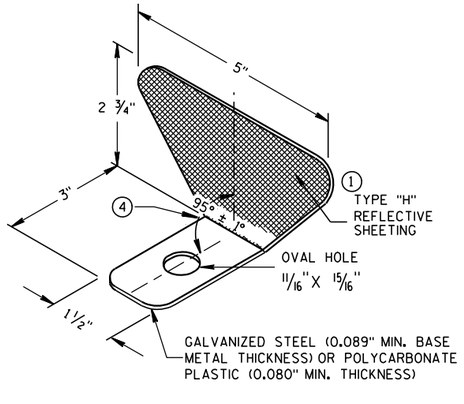


FRONT VIEW AT WOOD POST

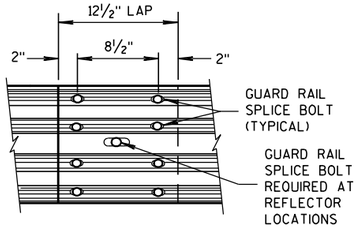


FRONT VIEW AT STEEL POST



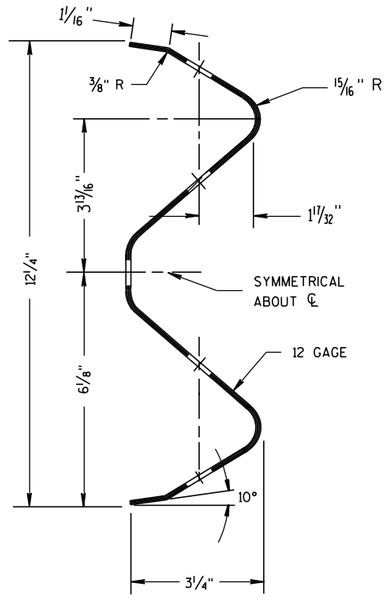


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ①



FRONT VIEW

MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL

REFLECTOR SPACING ②

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 ③ 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 ④ 2	3

GENERAL NOTES

① PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.

② DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

③ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

④ PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

⑤ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

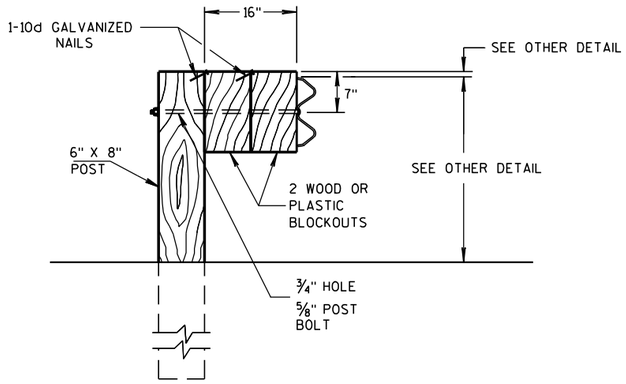
POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

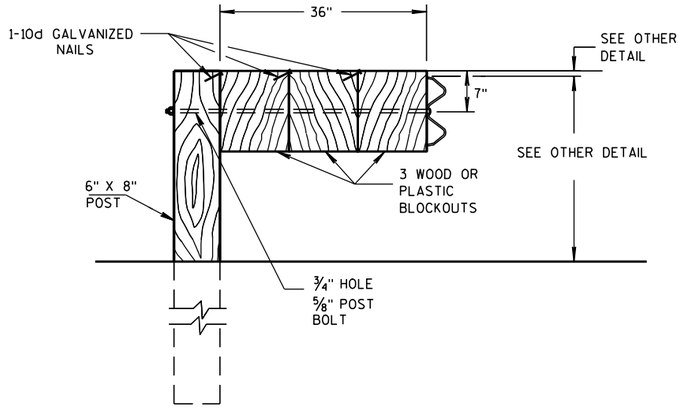
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 42-2b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

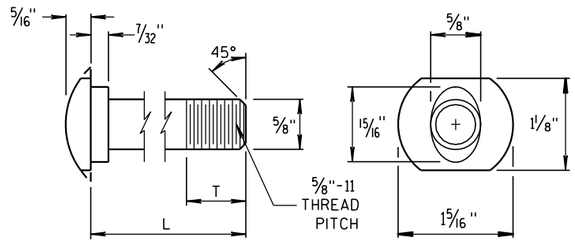


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

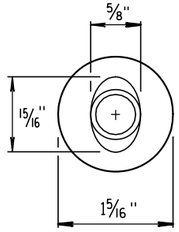
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

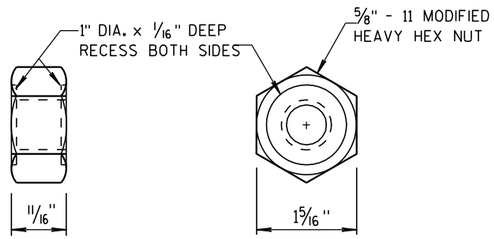


POST BOLT TABLE

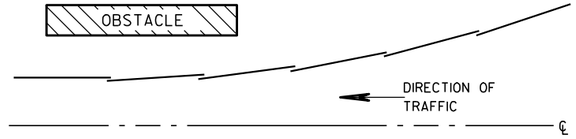
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

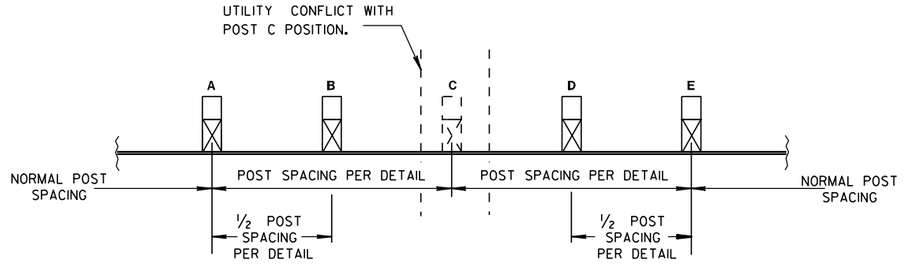


POST BOLT AND RECESS NUT

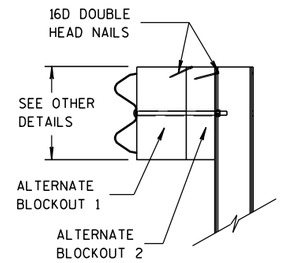


PLAN VIEW

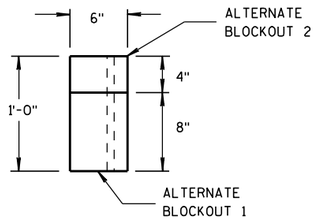
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/15/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

607

FHWA

ENT

6

S.D.D. 14 B 42-2c

6

S.D.D. 14 B 42-2c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE EXTENDED VEHICLE RUNOUT PATH (EVRP), THE HINGE POINT LINE (HPL),AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

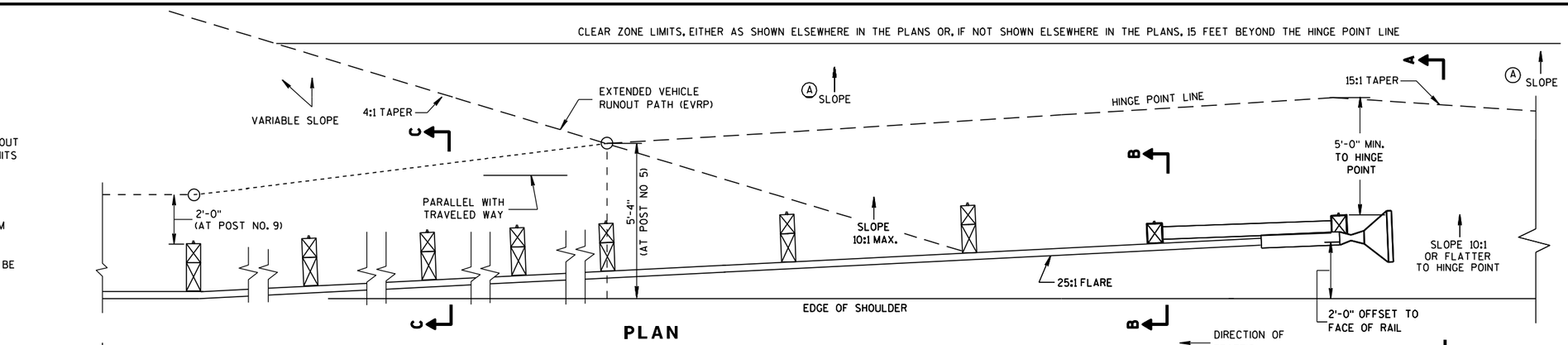
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

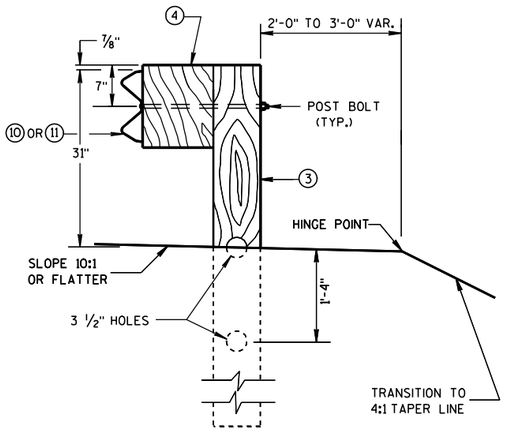
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

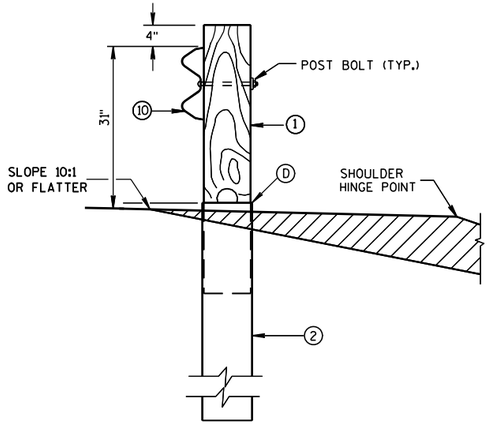
PATTERN AND COLORS ON REFLECTIVE SHEETING TYPE H ARE TO CONFORM TO OM3-L OR OM3-R OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE (± ¾")

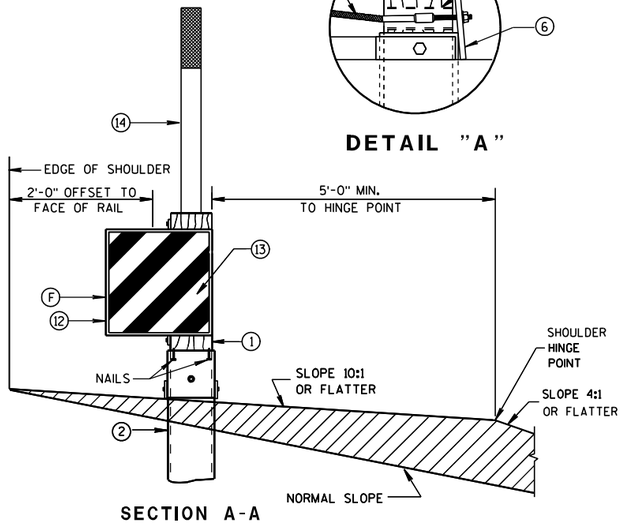




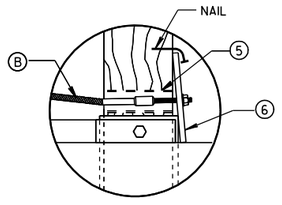
SECTION C-C
TYPICAL AT POST NOS. 3-9



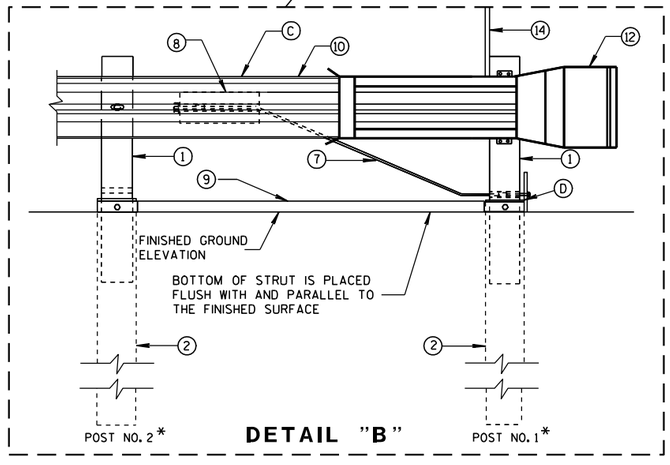
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



DETAIL "B"

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

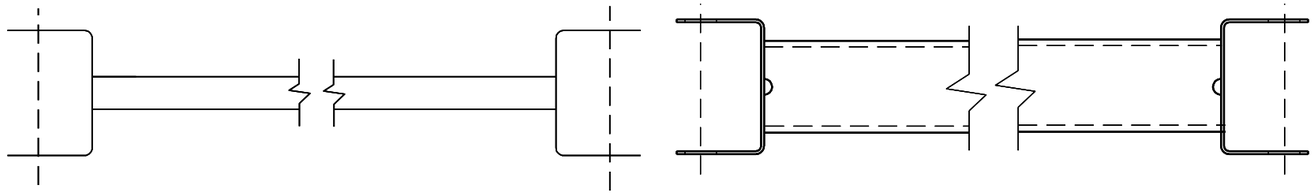
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 44-1a

6

S.D.D. 14 B 44-1a

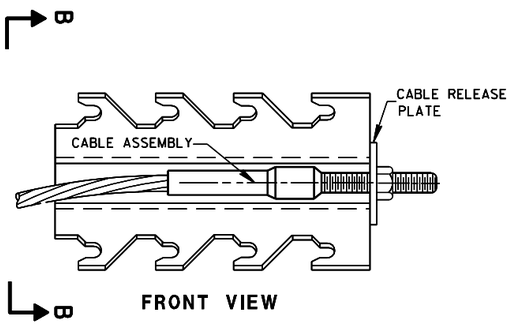


(9) (H)

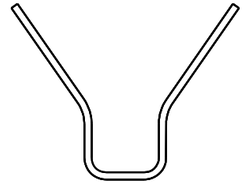
GENERIC GROUND STRUT

BILL OF MATERIALS

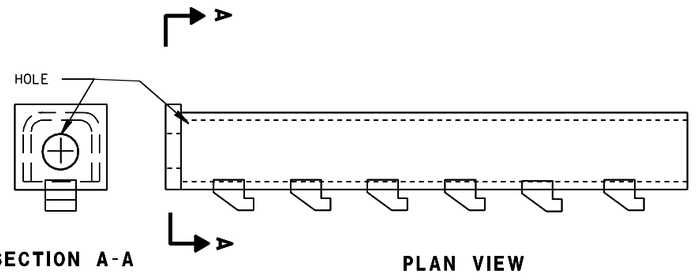
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



FRONT VIEW



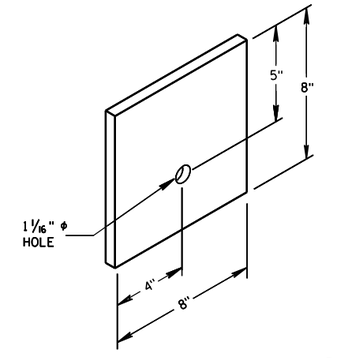
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)

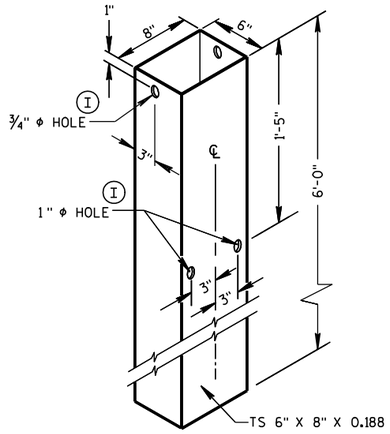


BEARING PLATE (6)

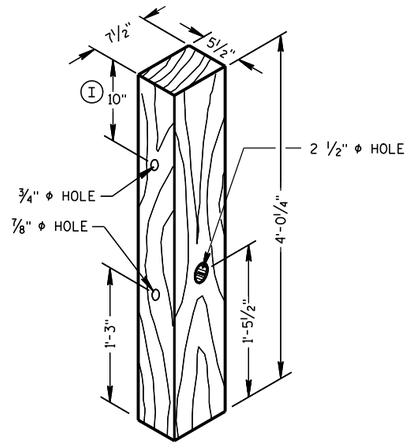
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 44-1b

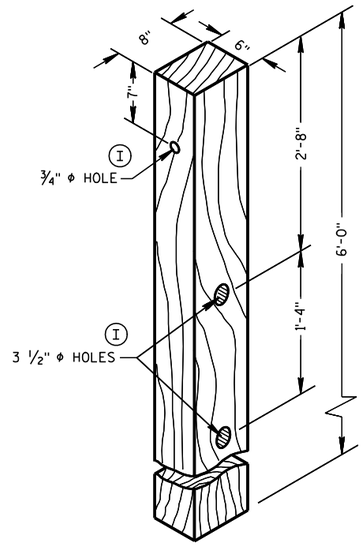


FOUNDATION TUBE (2)



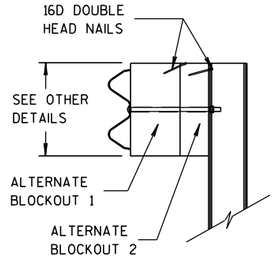
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

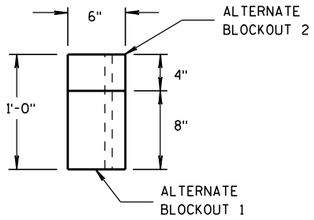


POSTS NUMBER 3-9

WOOD CRT POST (3)

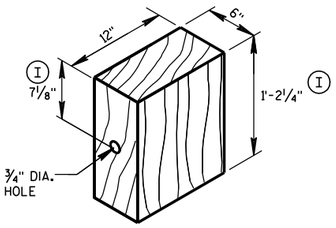


SIDE VIEW



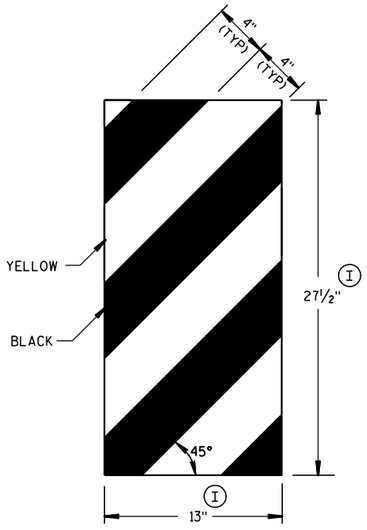
TOP VIEW

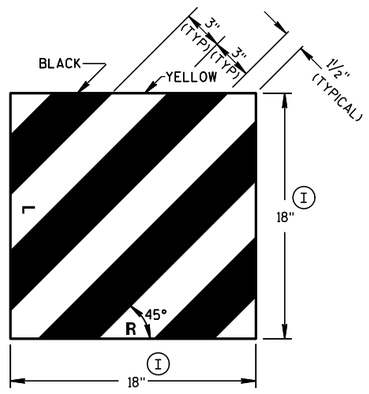
ALTERNATE WOOD BLOCKOUT DETAIL



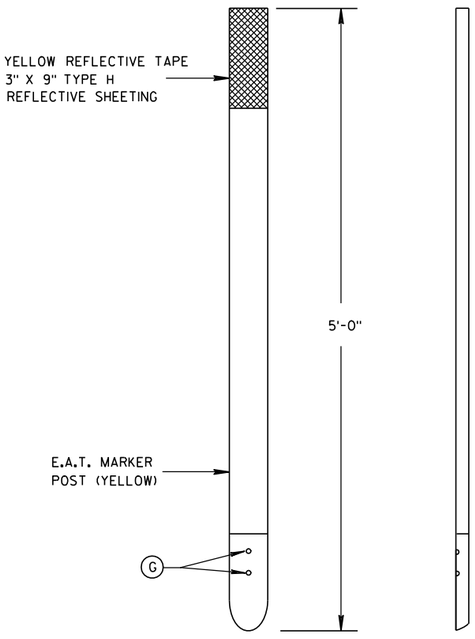
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





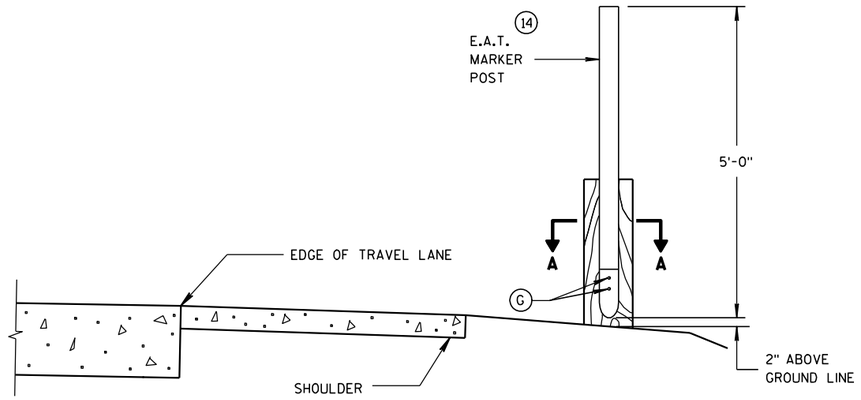
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

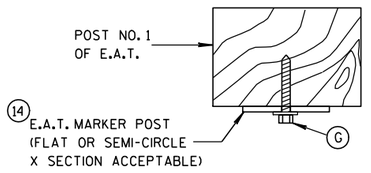
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

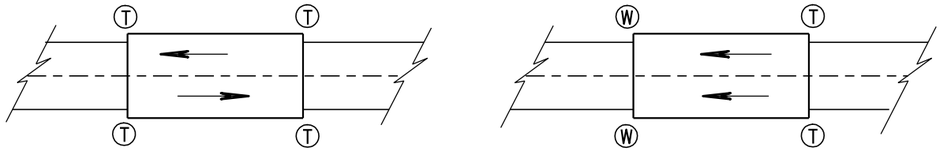
APPROVED
5/23/2011
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS 610 tENT
ENGINEER
FHWA

6

S.D.D. 14 B 44-1c

6

S.D.D. 14 B 44-1c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

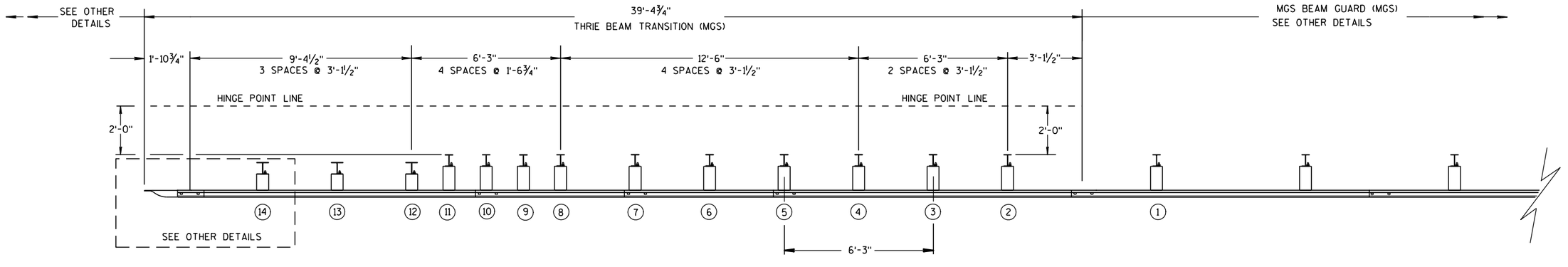
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

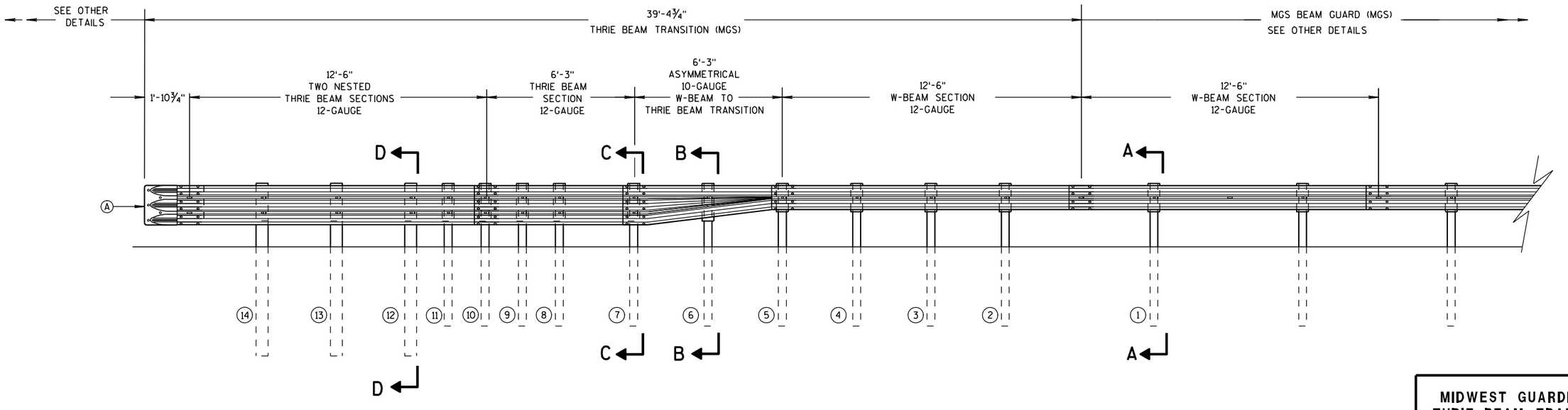
TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

Ⓐ BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

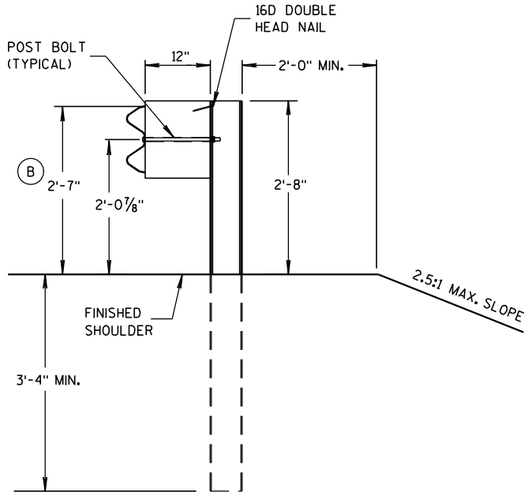
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 45-3a

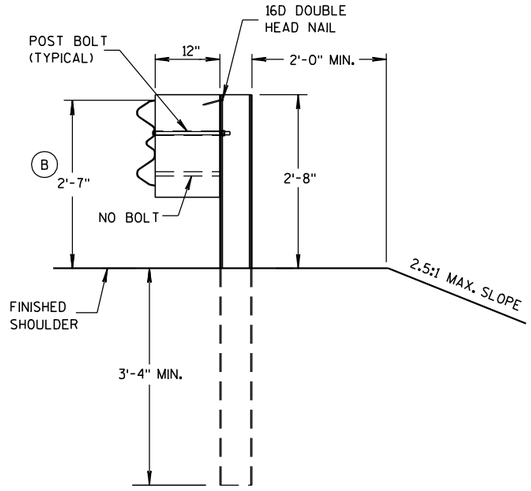
GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



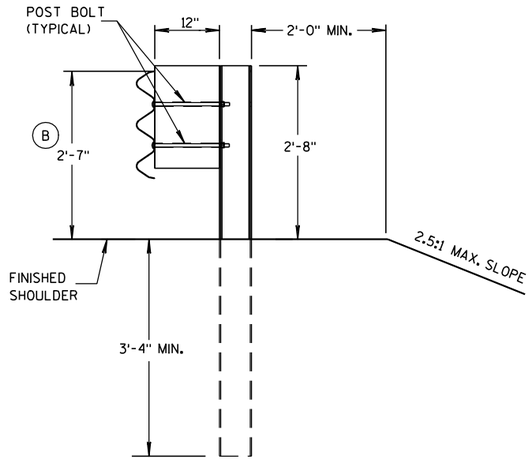
SECTION A-A

POSTS 1-5



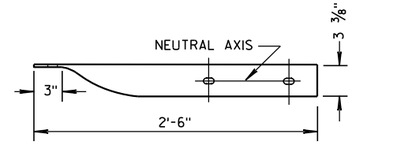
SECTION B-B

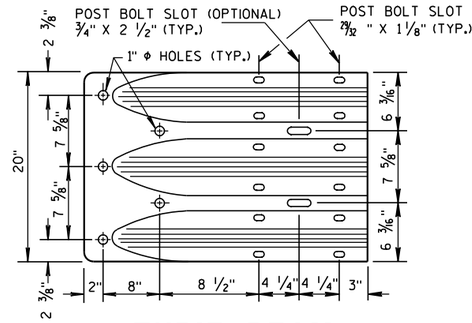
POST 6



SECTION C-C

POSTS 7-11





THRIE BEAM TERMINAL CONNECTOR

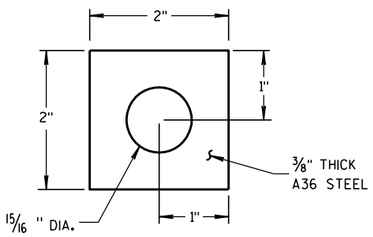
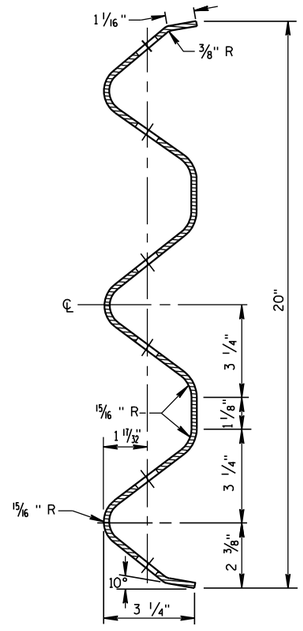
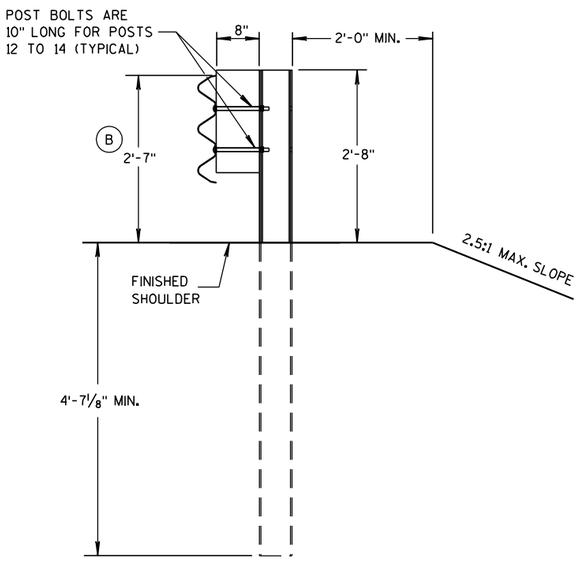


PLATE WASHER DETAIL

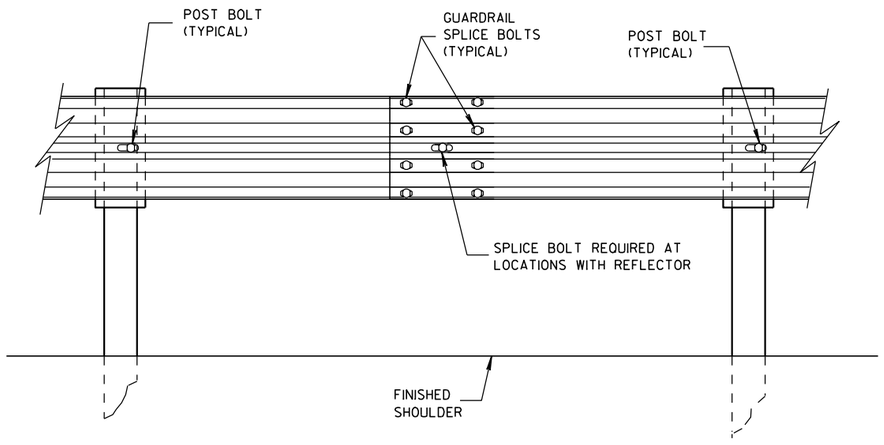


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-14

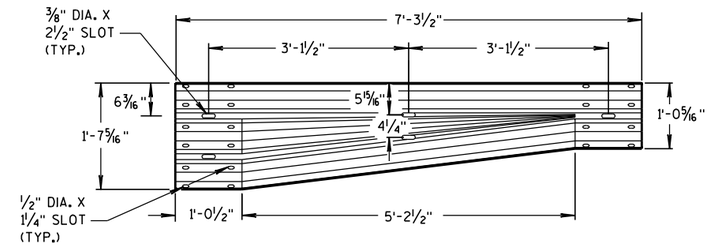


SPLICE DETAIL

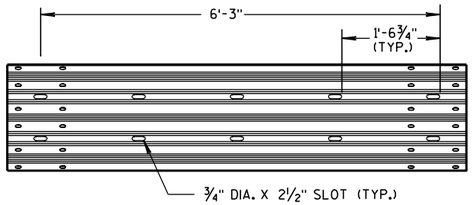
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

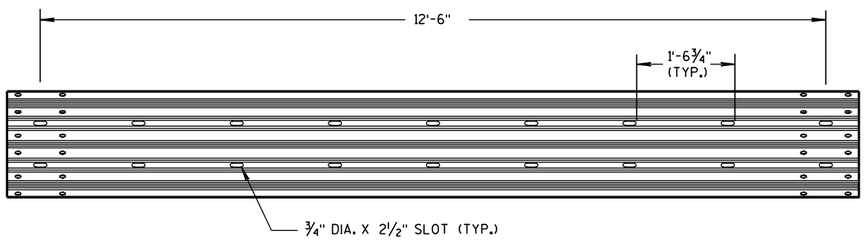
6
S.D.D. 14 B 45-3b



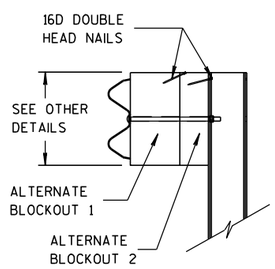
W-BEAM TO THRIE BEAM TRANSITION SECTION



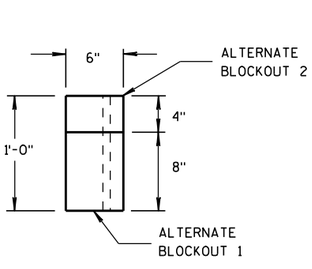
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

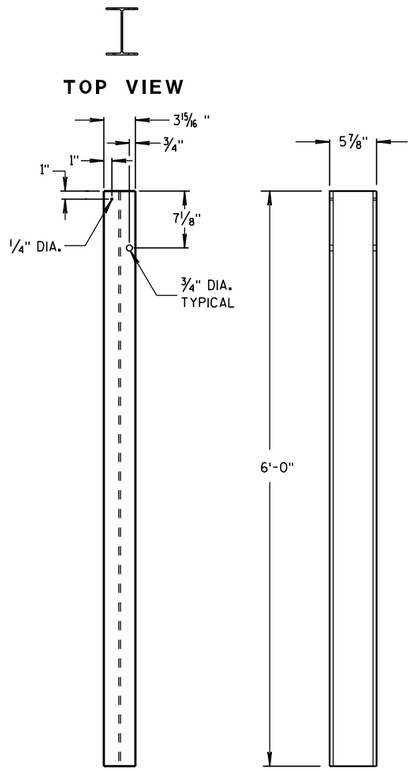


SIDE VIEW



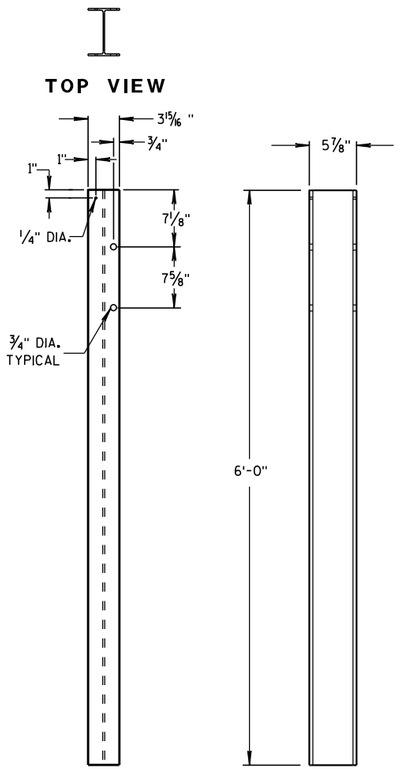
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



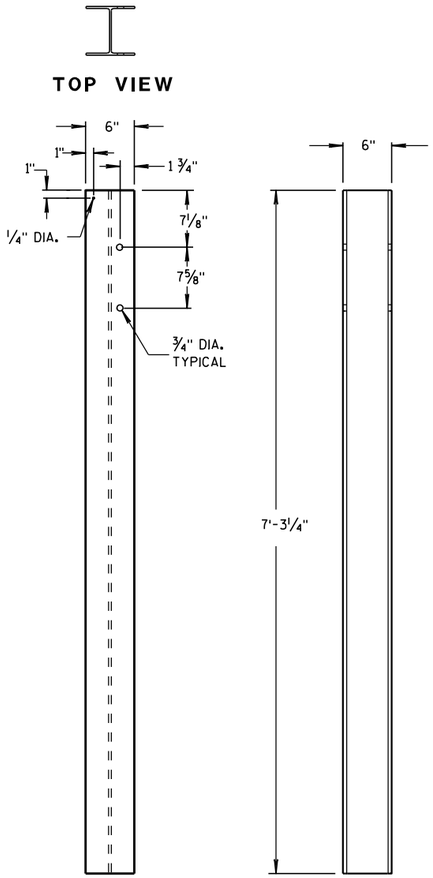
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5



FRONT VIEW SIDE VIEW

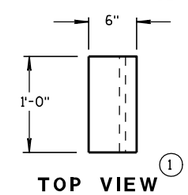
STEEL POSTS 6-11



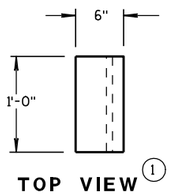
FRONT VIEW SIDE VIEW

STEEL POSTS 12-14

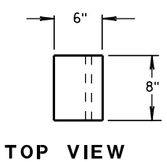
(1) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



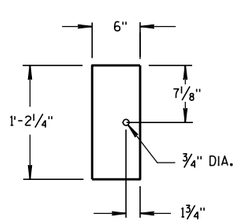
TOP VIEW (1)



TOP VIEW (1)

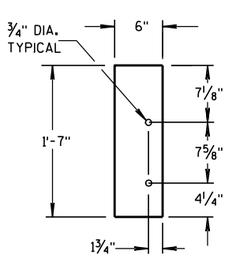


TOP VIEW



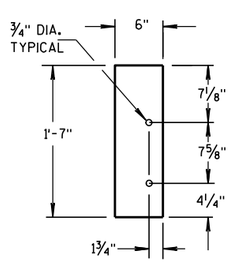
FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-11



FRONT VIEW

BLOCKOUT POSTS 12-14

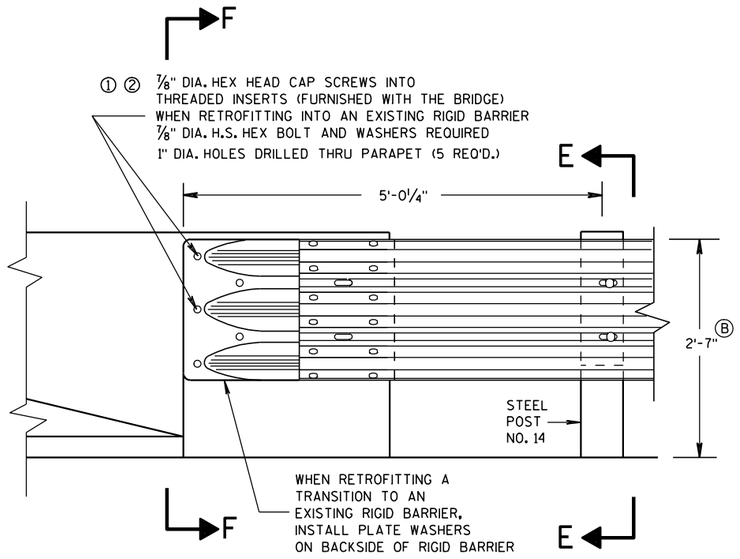
STEEL POST SIZES

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"

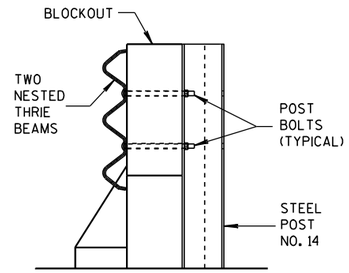
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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.

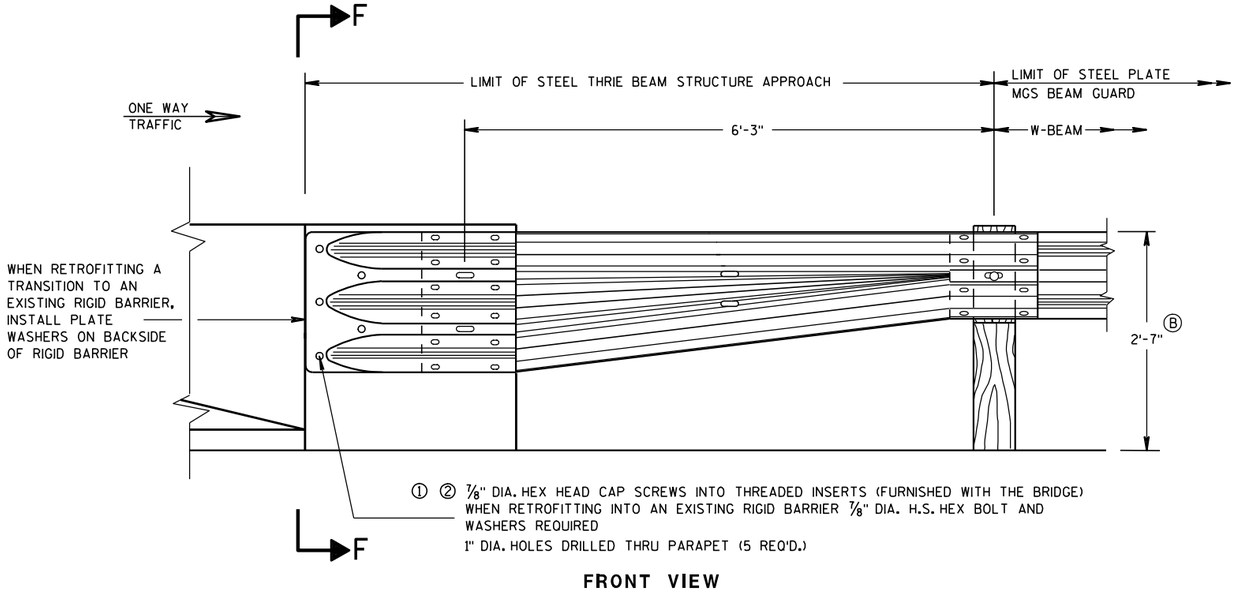
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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.

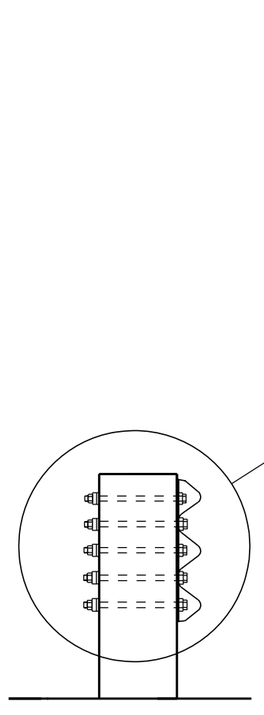
③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

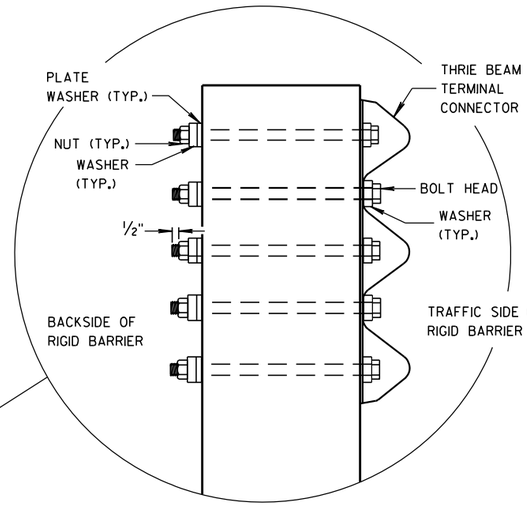
THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



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 (614) — 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.

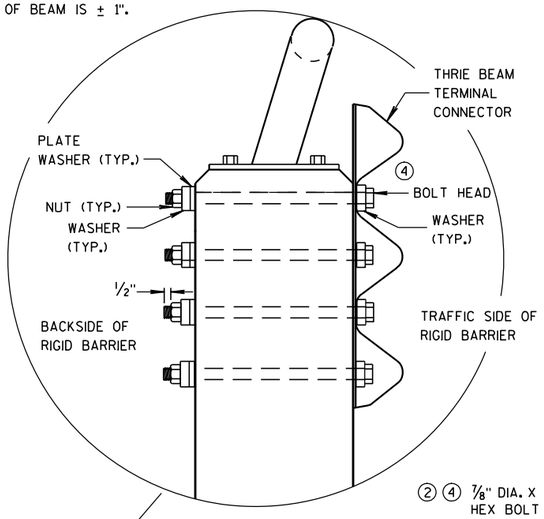
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

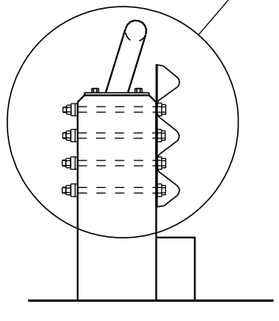
② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. 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.

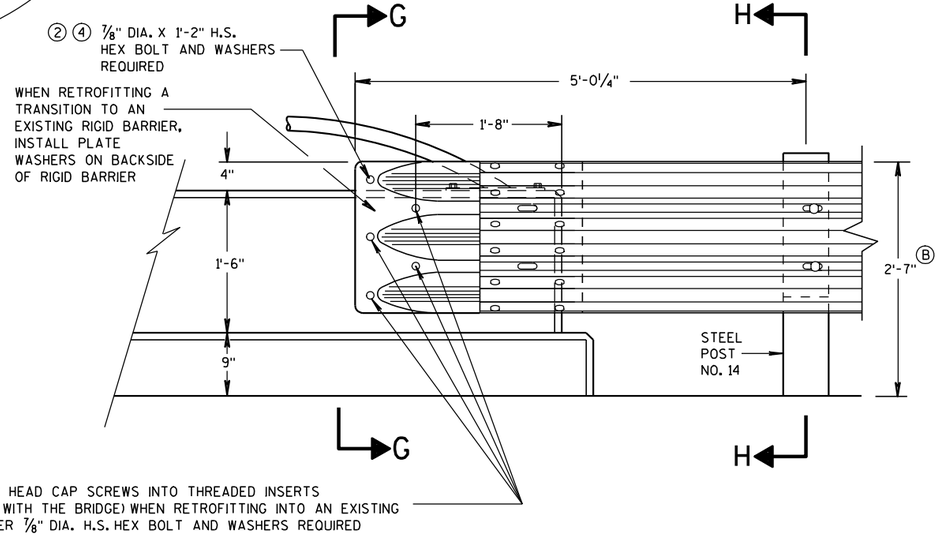
④ BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.

Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".

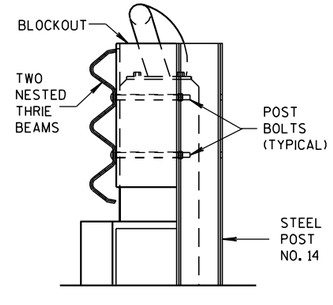




SECTION G-G

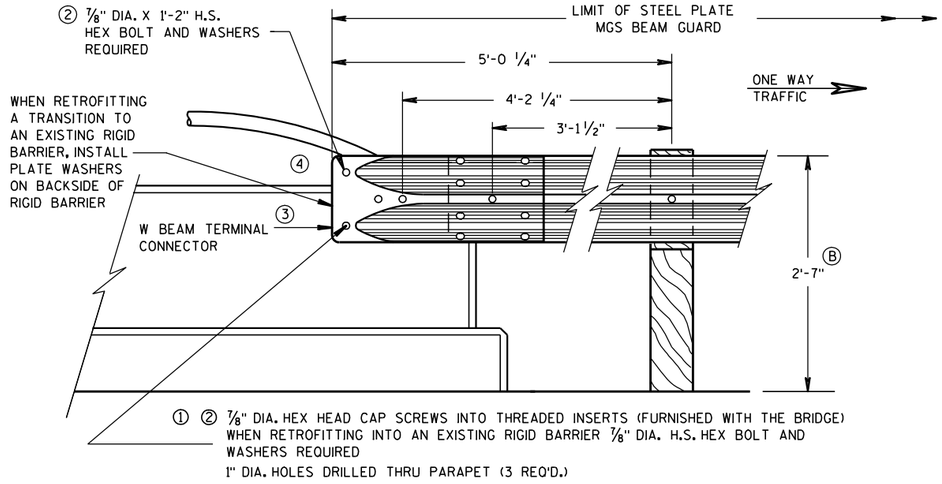


FRONT VIEW



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

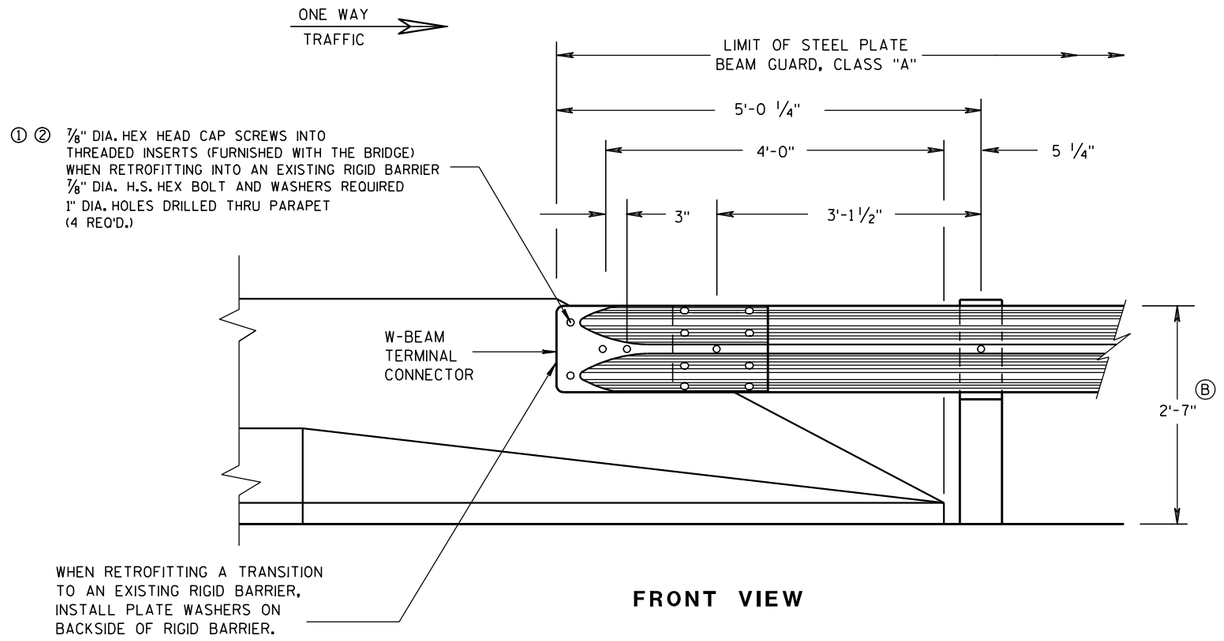
FHWA

6

S.D.D. 14 B 45-3e

6

S.D.D. 14 B 45-3e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

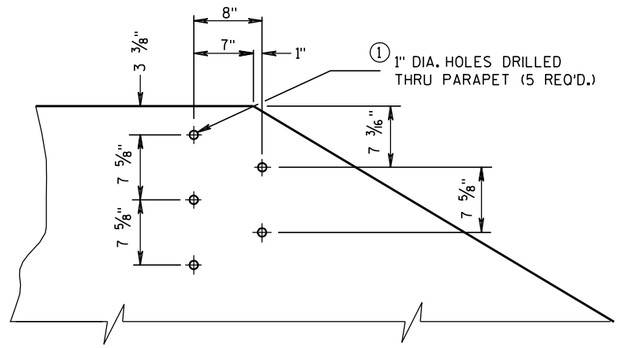
(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

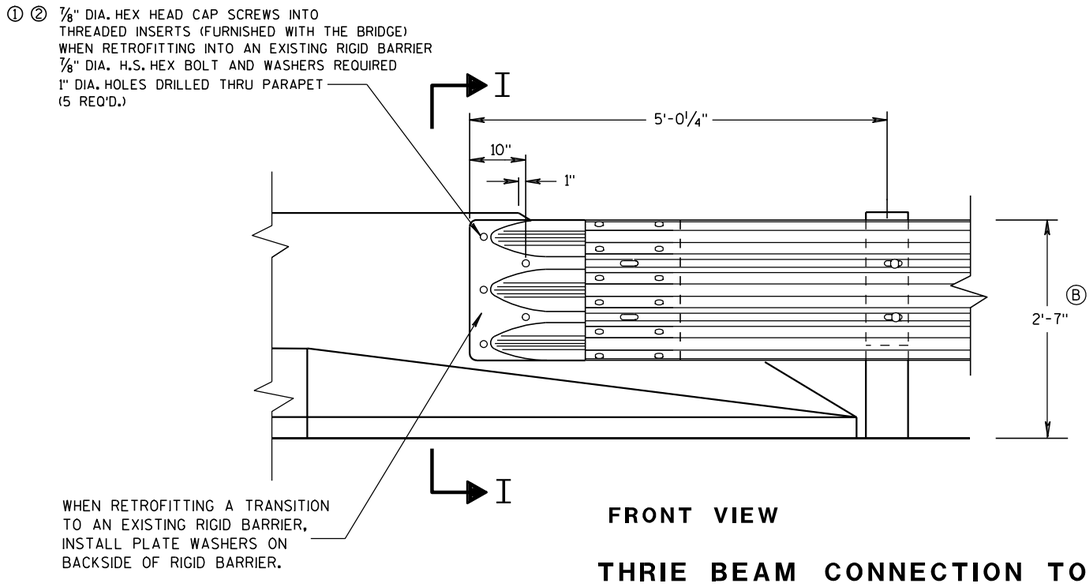
① DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

② BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

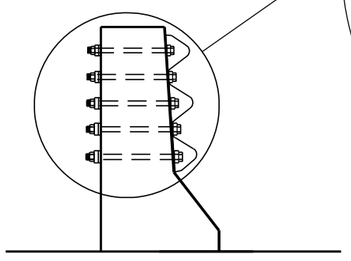
Ⓑ TOLERANCE FOR TOP OF BEAM IS ± 1".



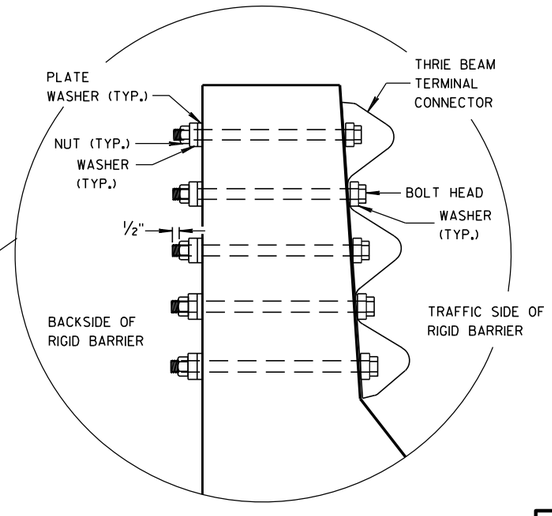
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/31/2012 DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

616

ENT

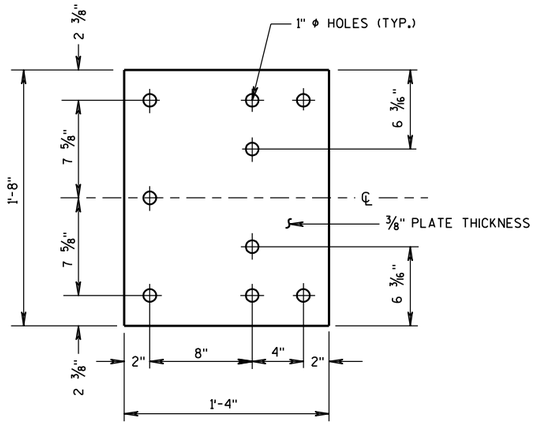
FHWA

6

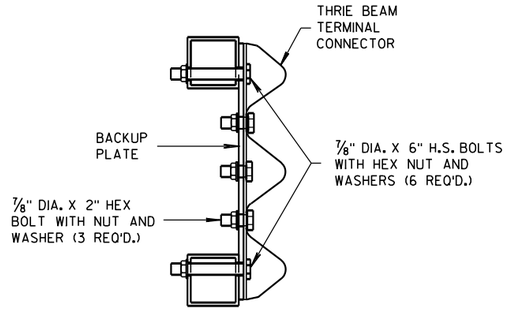
S.D.D. 14 B 45-3f

6

S.D.D. 14 B 45-3f



BACK-UP PLATE DETAIL

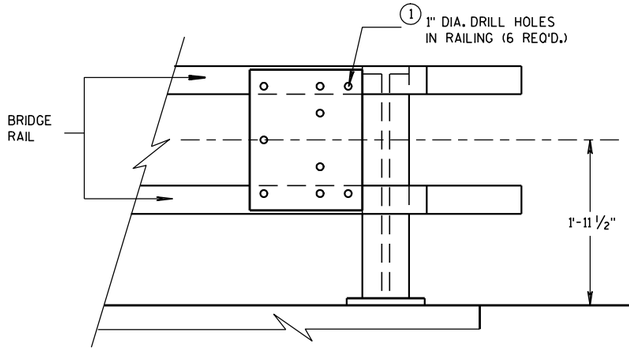


SECTION J-J

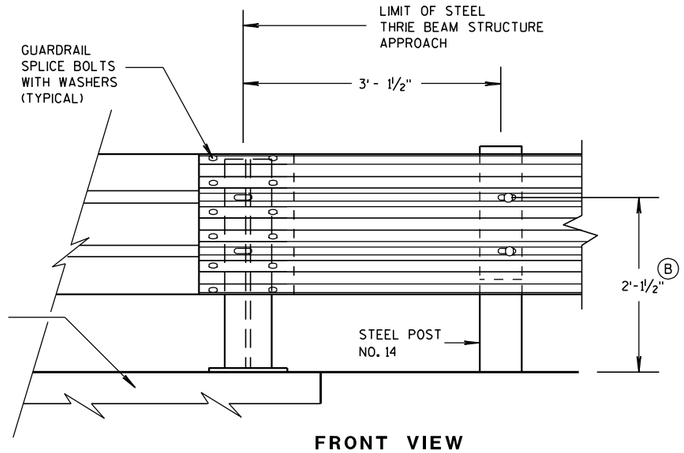
GENERAL NOTES

(1) DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(B) TOLERANCE FOR TOP OF BEAM IS ± 1".

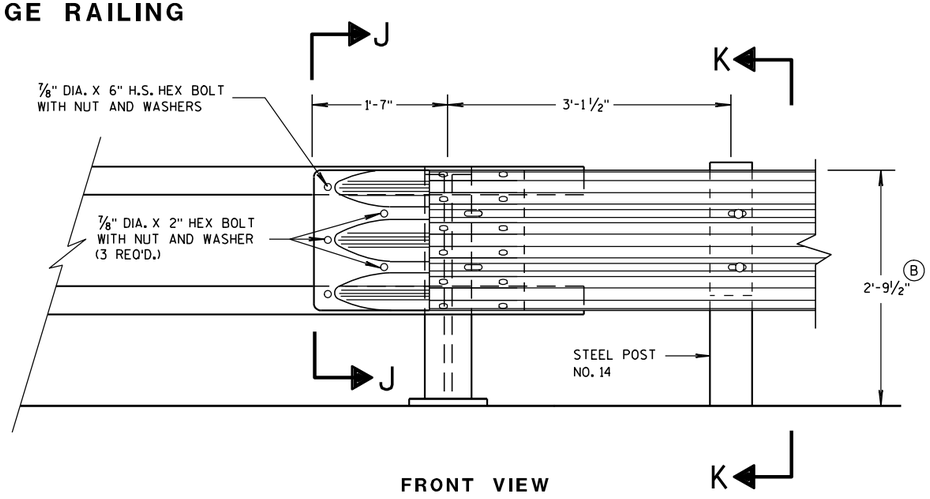


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

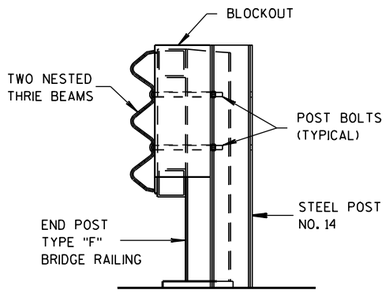


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

617

6

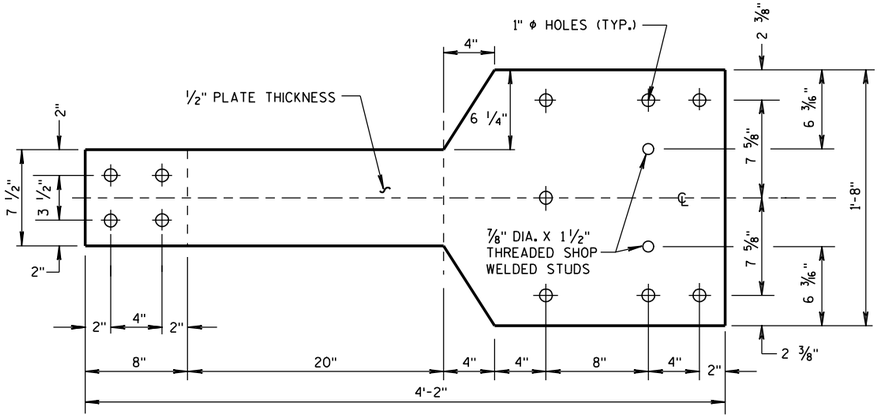
S.D.D. 14 B 45-3g

6

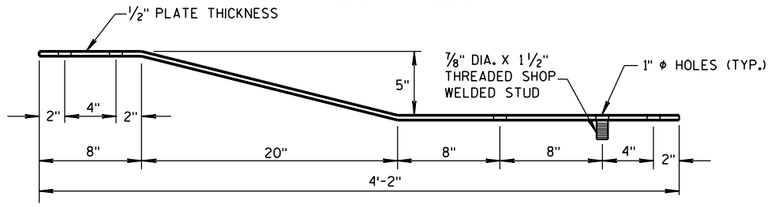
S.D.D. 14 B 45-3g

GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

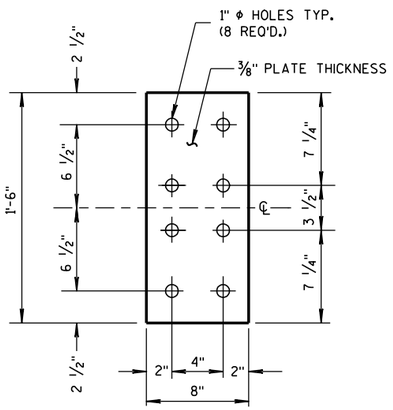


FRONT VIEW



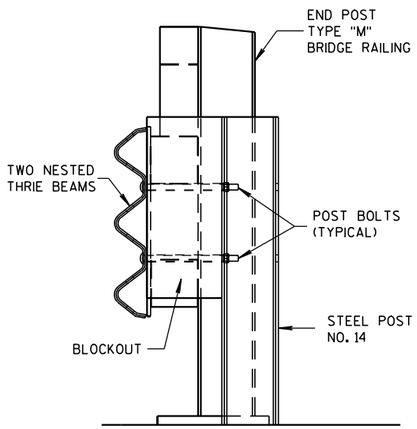
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

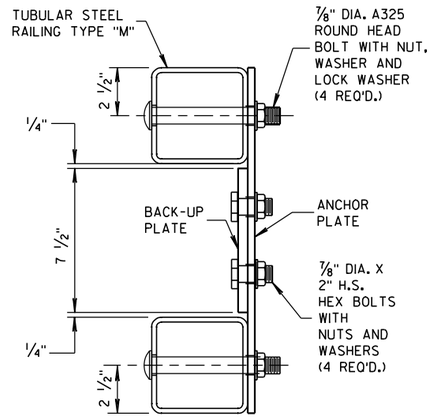


FRONT VIEW

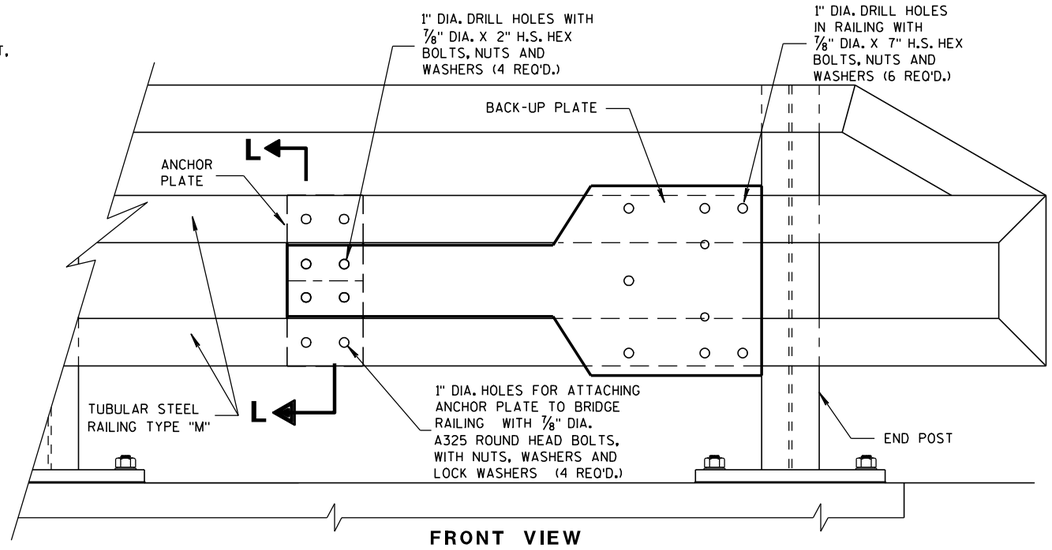
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

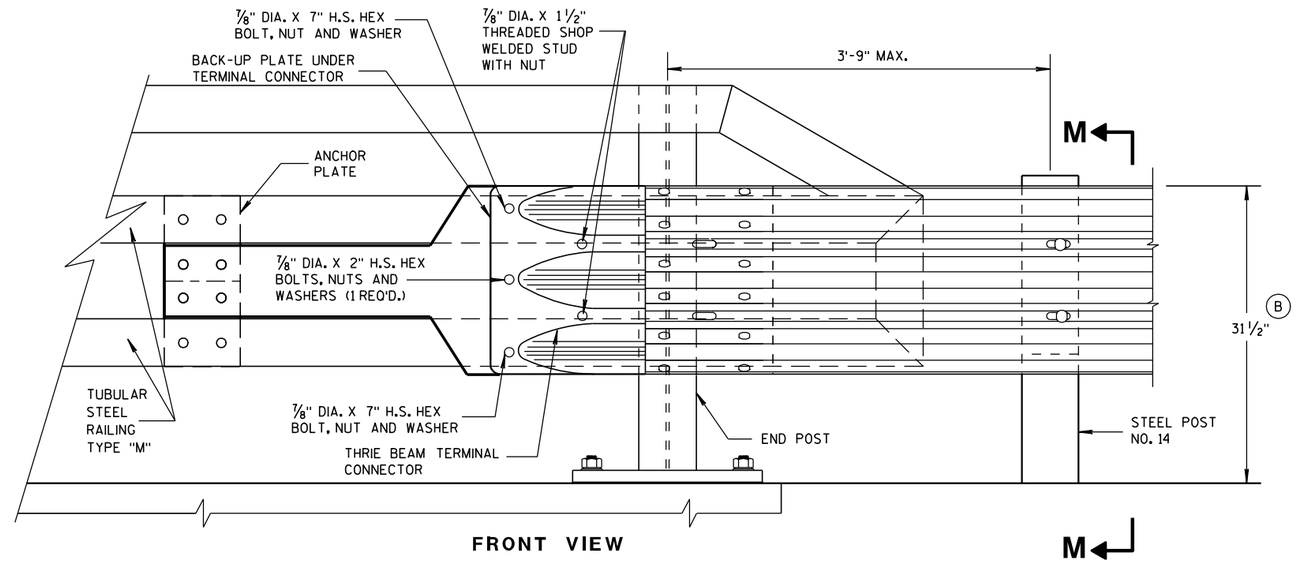


SECTION L-L

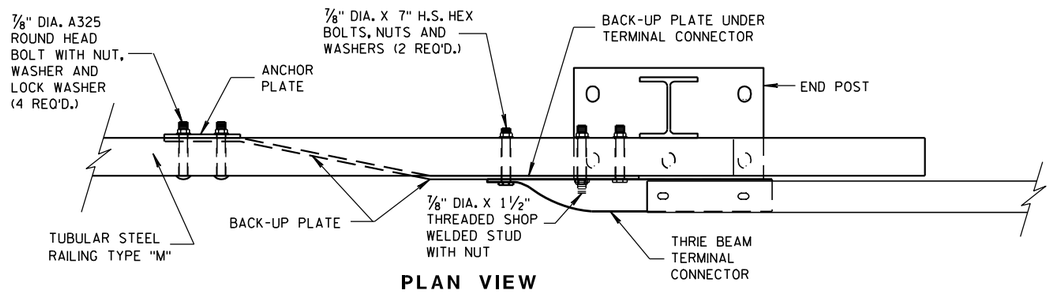


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8-31-2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

618 ENT

FHWA

6

S.D. 14 B 45-3h

6

S.D. 14 B 45-3h

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

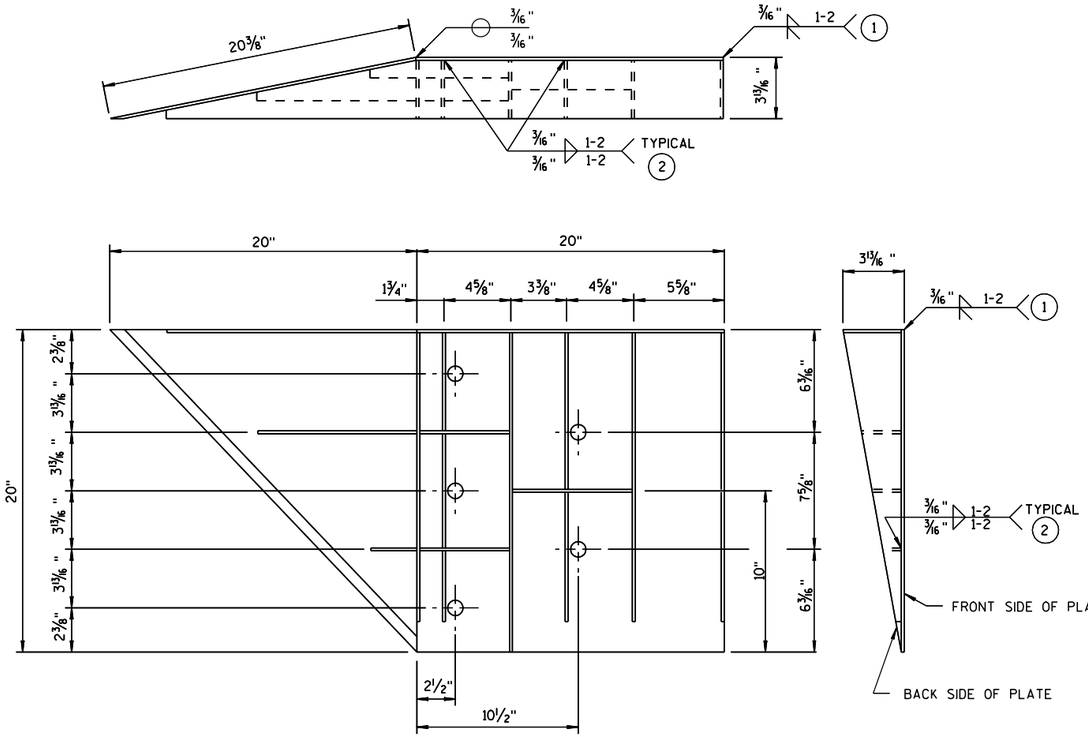
FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(1) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(2) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".



WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

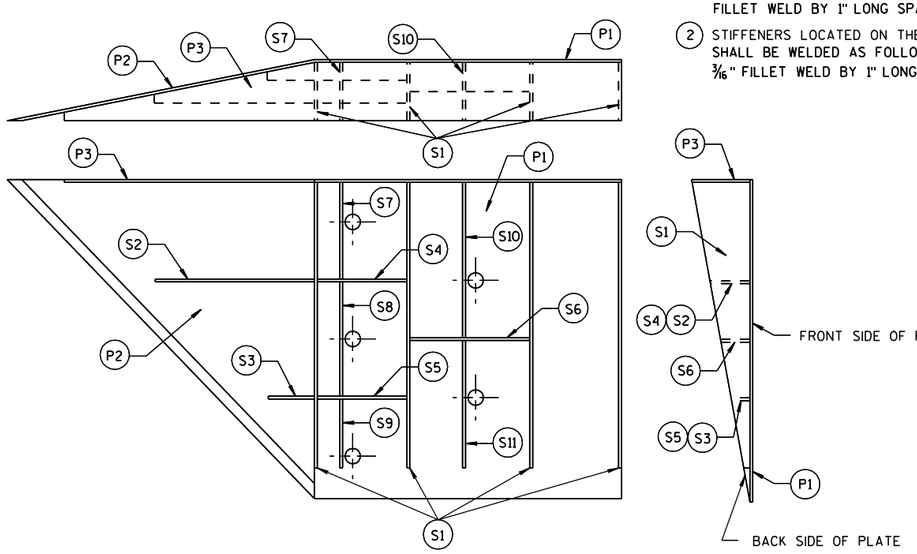


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

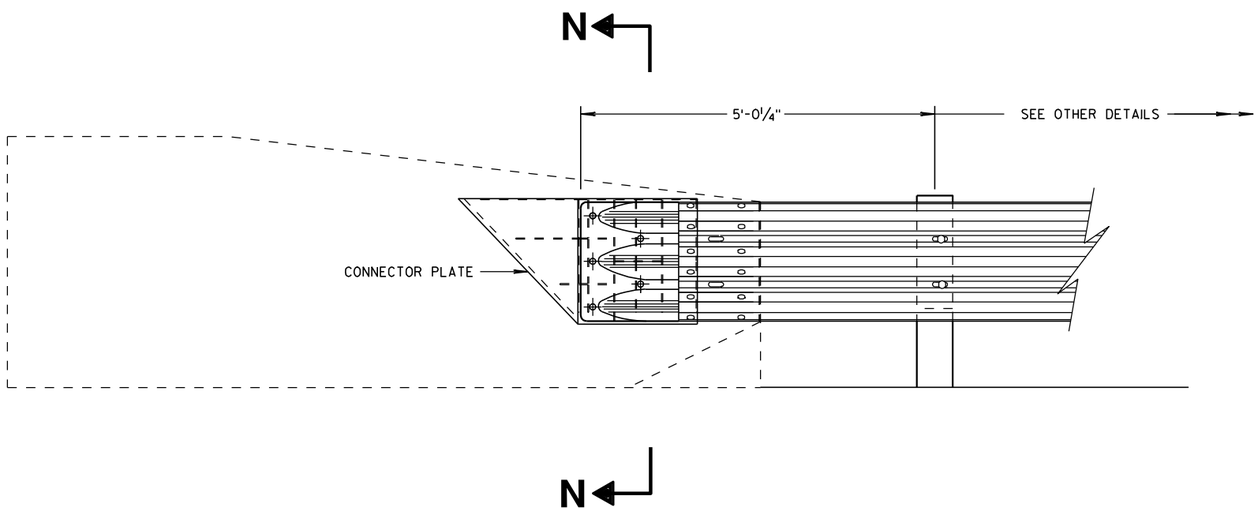
SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

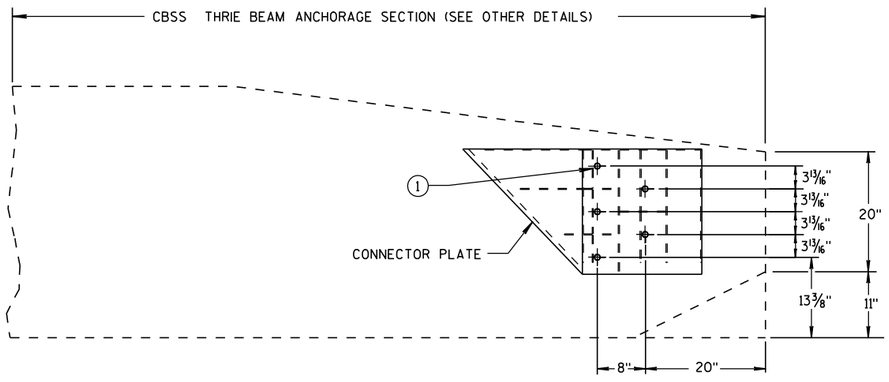
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/31/2012 DATE
/S/ Jerry H ____
ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 45-3i



THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

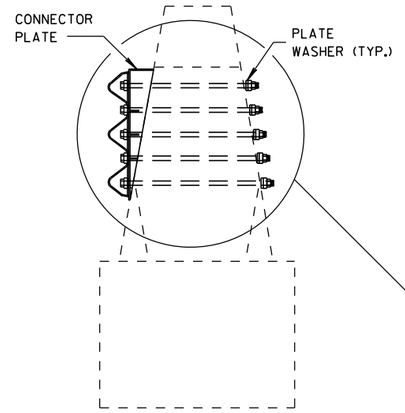


SINGLE SLOPE CONNECTION PLATE PLACEMENT

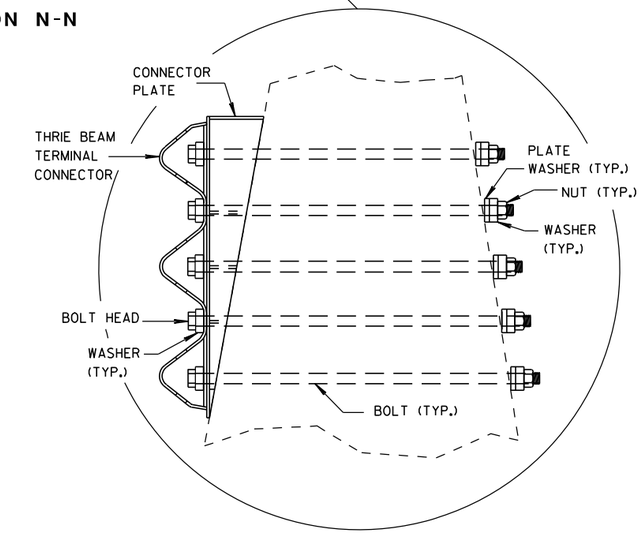
GENERAL NOTES

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

APPROVED

8/31/2012
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

1620

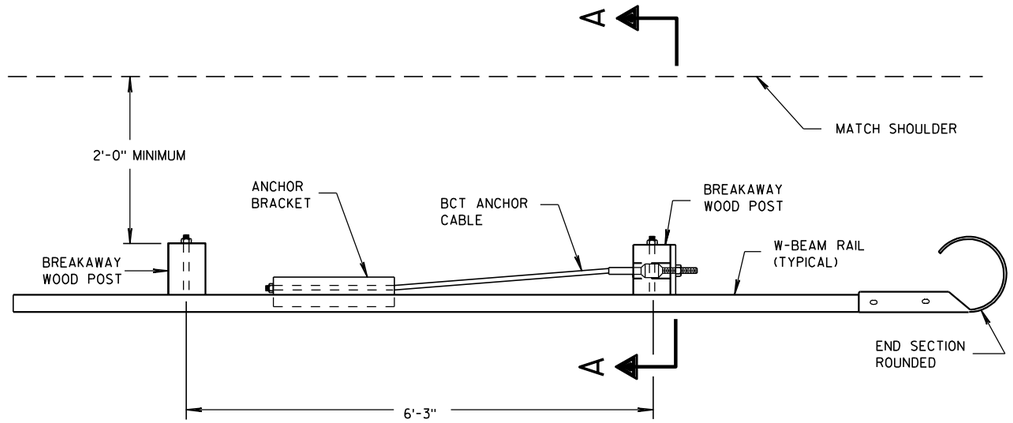
FHWA

6

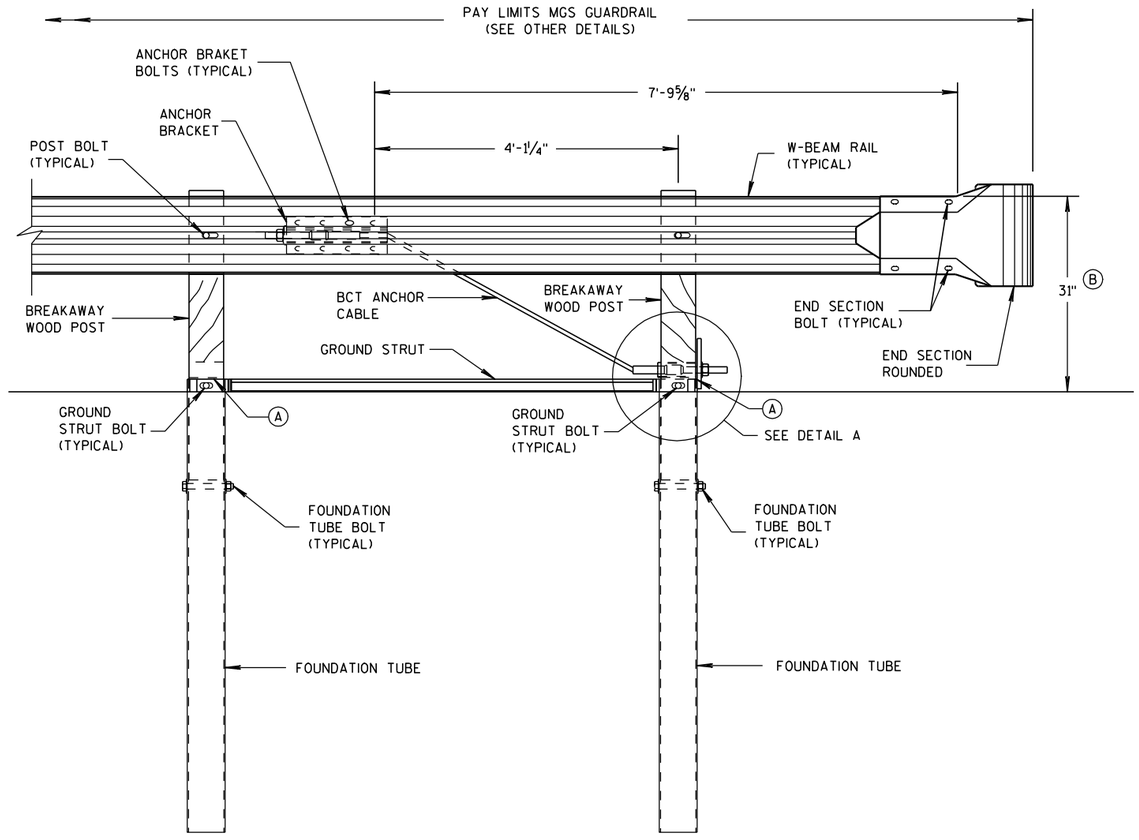
S.D.D. 14 B 45-3j

6

S.D.D. 14 B 45-3j

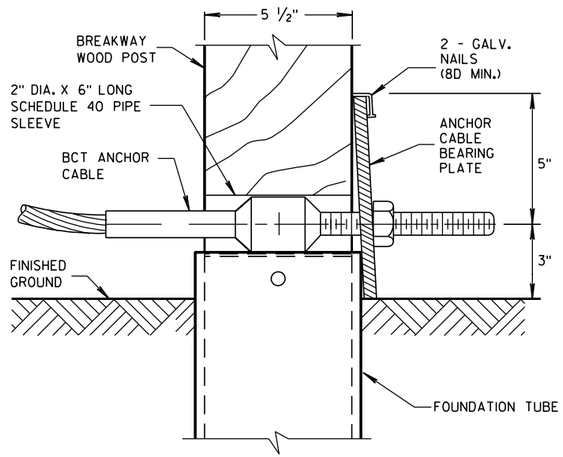


PLAN VIEW



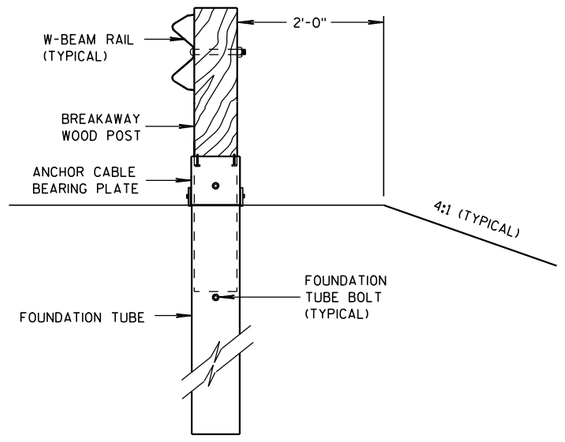
FRONT VIEW

END RAIL DETAIL



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.



SECTION A-A

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

POST BOLTS ARE A ⅝" DIAMETER X 10" LONG GUARDRAIL BOLT. A POST BOLT REQUIRES A ⅝" DIAMETER DH MODIFIED (RECESSED) HEAVY HEX NUT AND ⅝" DIAMETER FLAT WASHER.

FOUNDATION TUBE BOLTS ARE A ⅞" DIAMETER X 7½" LONG HEAVY HEX HEAD BOLT. A FOUNDATION TUBE BOLT REQUIRES A ⅞" DIAMETER DH HEAVY HEX NUT AND A ⅝" DIAMETER FLAT WASHER.

GROUND STRUT BOLTS ARE A ⅝" DIAMETER X 10" LONG HEAVY HEX HEAD BOLT. A GROUND STRUT BOLT REQUIRES A ⅝" DIAMETER DH HEAVY HEX NUT AND A ⅝" DIAMETER FLAT WASHER.

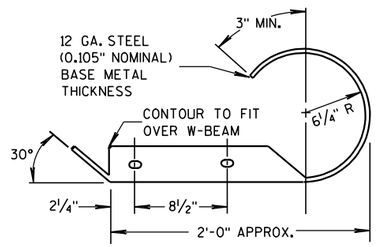
ANCHOR BRAKET BOLTS ARE A ⅝" DIAMETER X 1½" LONG HEAVY HEX HEAD BOLT. AN ANCHOR BRAKET BOLT REQUIRES A ⅝" DIAMETER DH HEAVY HEX NUT AND A FLAT WASHER.

END SECTION BOLTS ARE A ⅝" DIAMETER X 1½" HEAVY HEX HEAD BOLT. AN END SECTION BOLT REQUIRES ⅝" DIAMETER DH HEAVY HEX NUT AND A ⅝" DIAMETER FLAT WASHER.

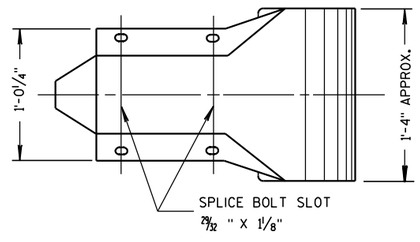
W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".



PLAN VIEW



FRONT VIEW

W BEAM END SECTION ROUNDED

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

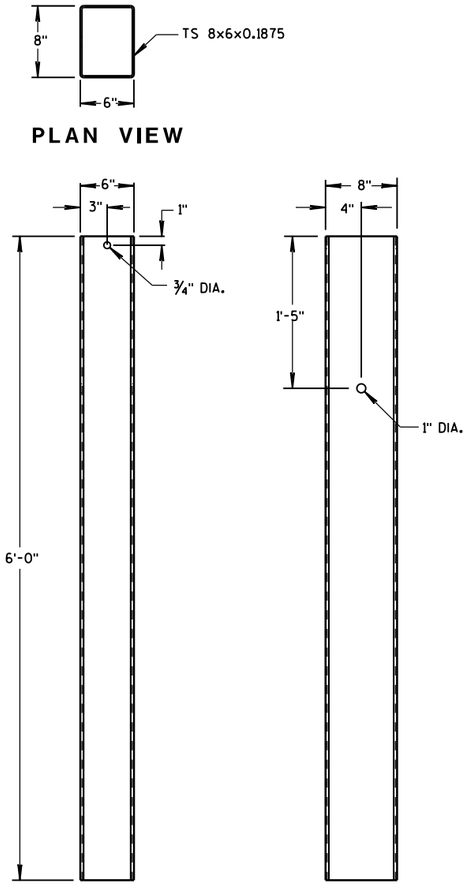
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 47-1a

6

S.D.D. 14 B 47-1a

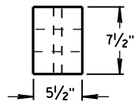


PLAN VIEW

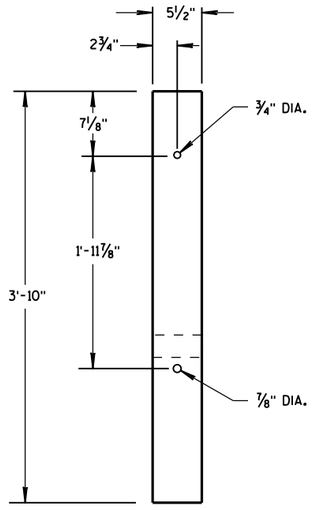
FRONT VIEW

SIDE VIEW

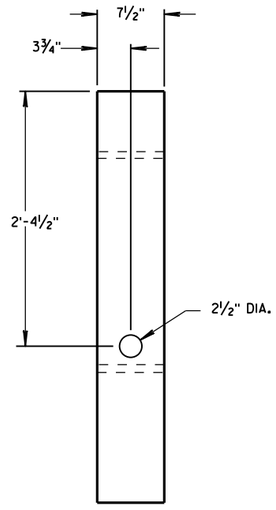
FOUNDATION TUBE



PLAN VIEW



FRONT VIEW

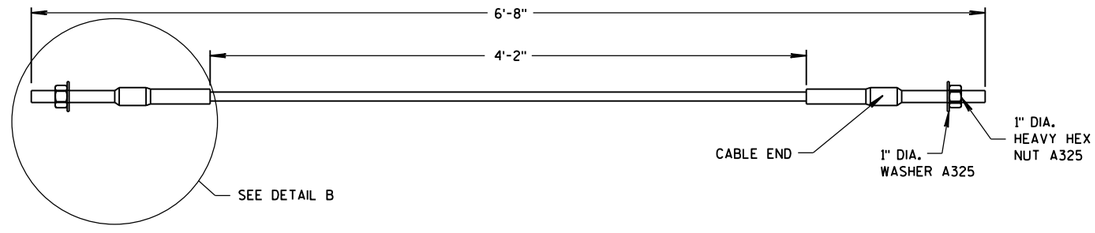


SIDE VIEW

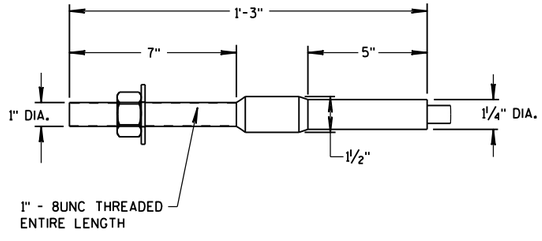
BREAKAWAY WOOD POST

GENERAL NOTES

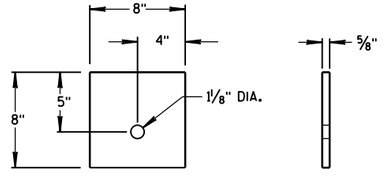
BCT ANCHOR CABLE IS A ⅜" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. THE END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. THE TREADED STUD SHOULD CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.



BCT ANCHOR CABLE



DETAIL B



SIDE VIEW FRONT VIEW

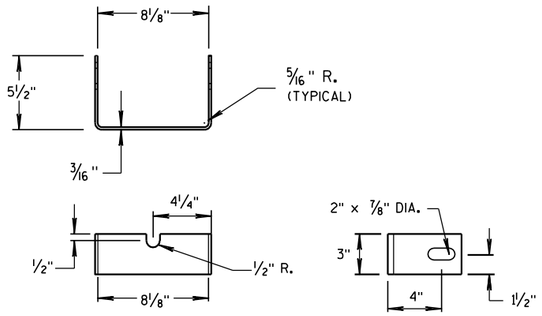
ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

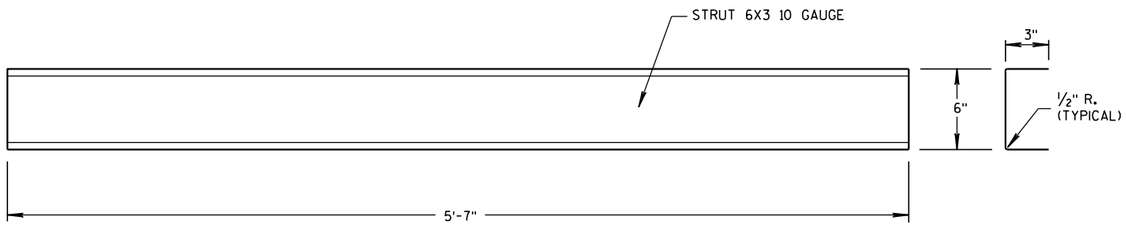
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

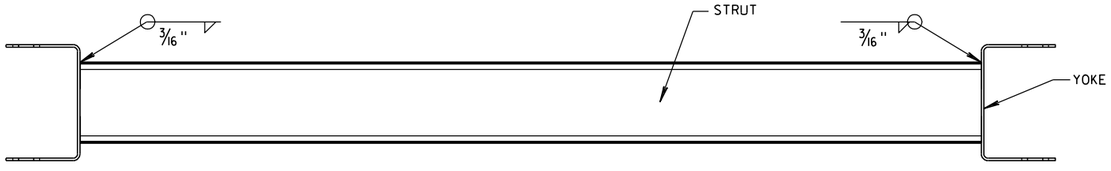
S.D.D. 14 B 47-1b



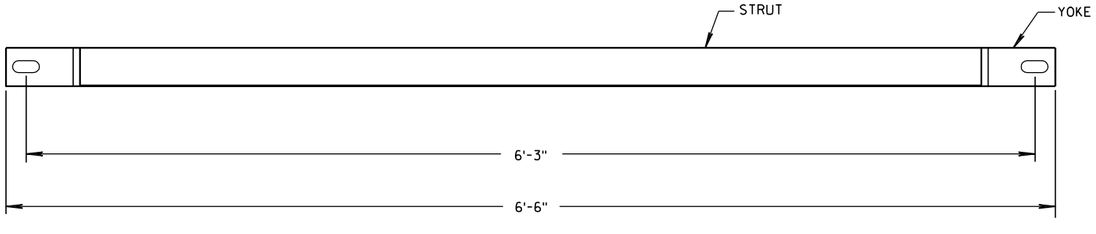
YOKE DETAIL



STRUT DETAIL

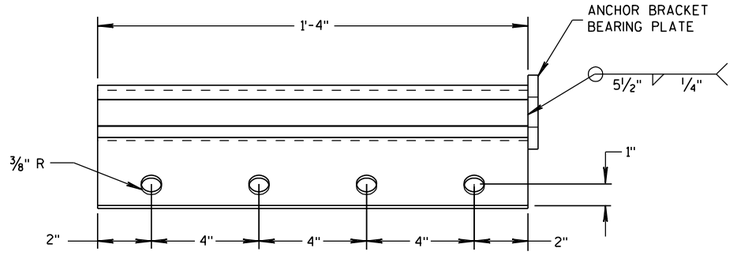


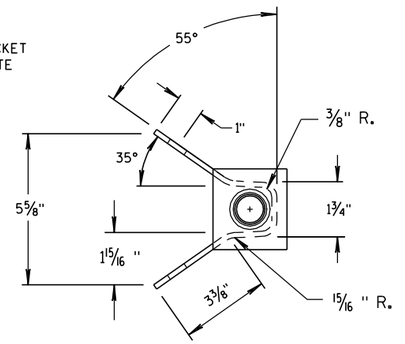
PLAN VIEW



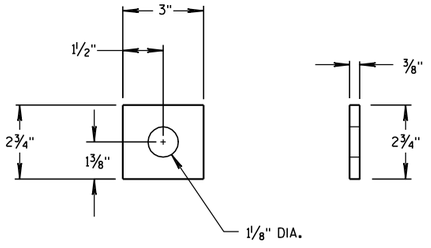
FRONT VIEW

GROUND STRUT DETAIL





ANCHOR BRACKET



ANCHOR BRACKET BEARING PLATE

6

6

S.D.D. 14 B 47-1c

S.D.D. 14 B 47-1c

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

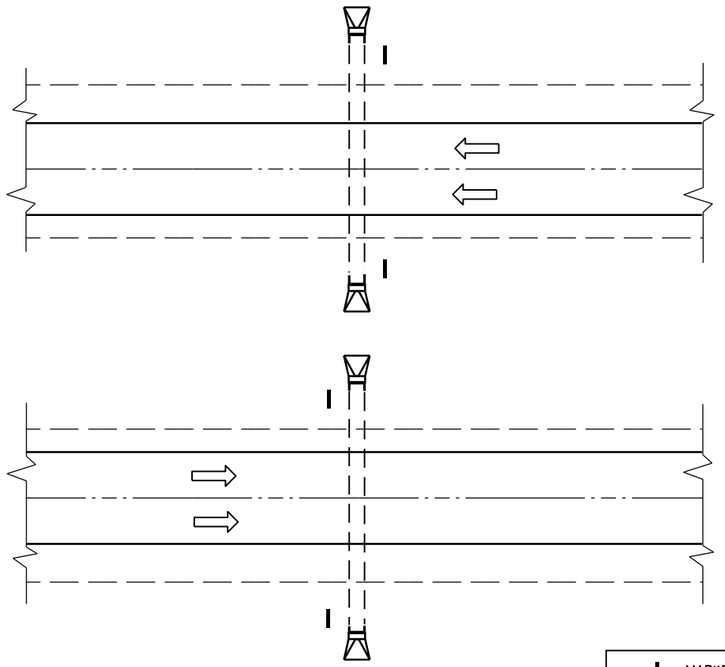
APPROVED

5/23/2011
DATE

/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER

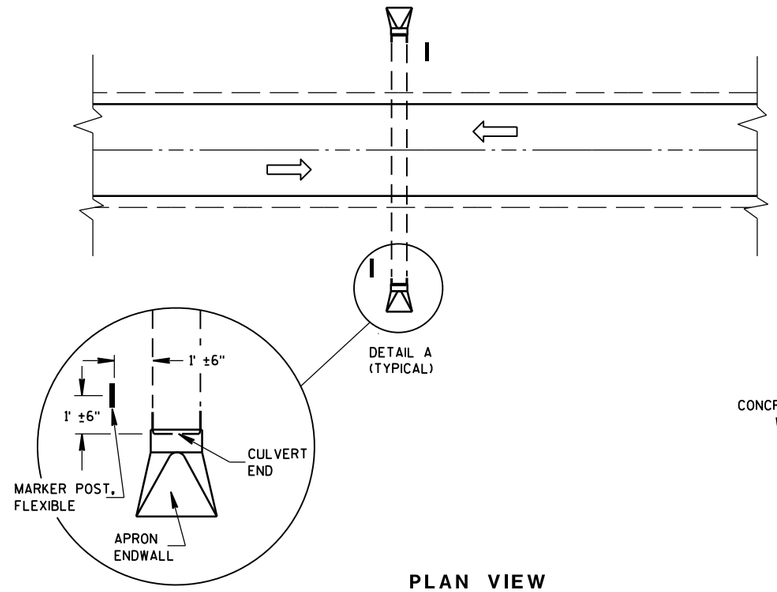
623

FHWA



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

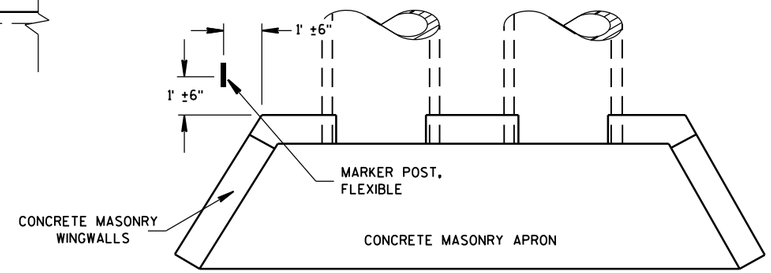
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

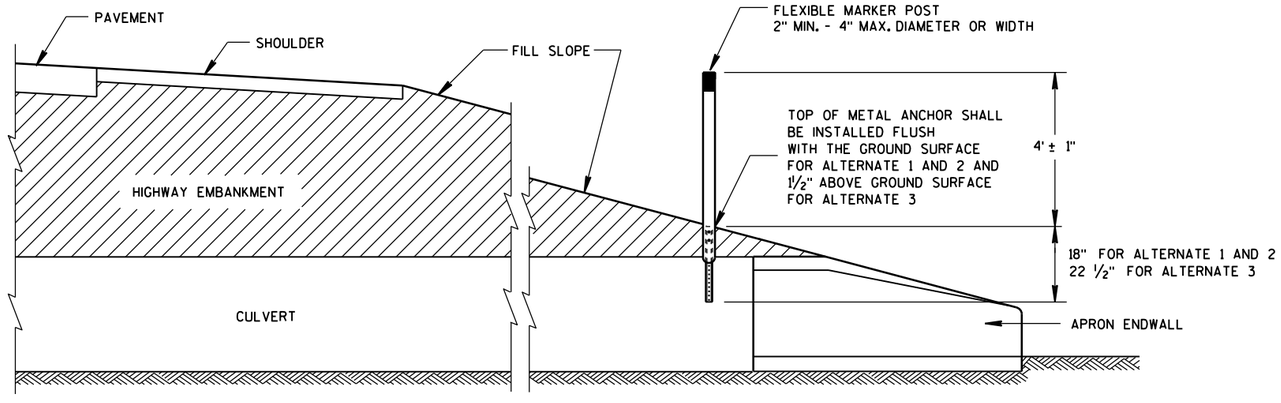
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

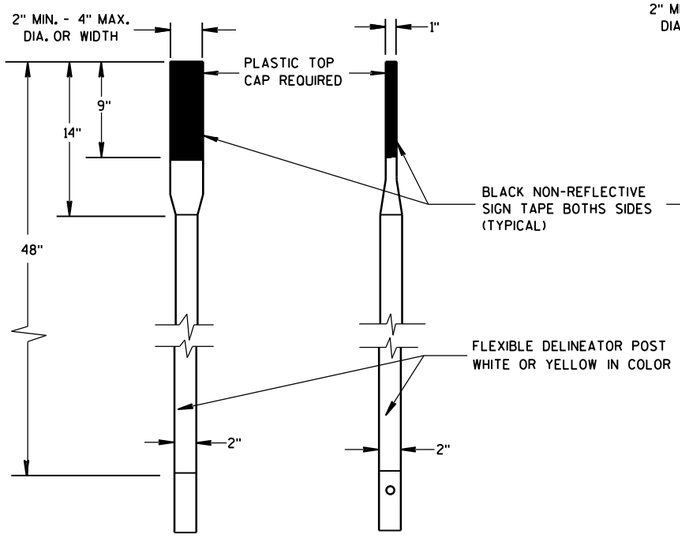
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

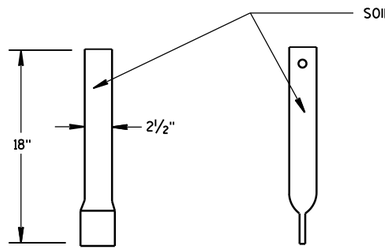
6

S.D.D. 15 A 3-2a

6

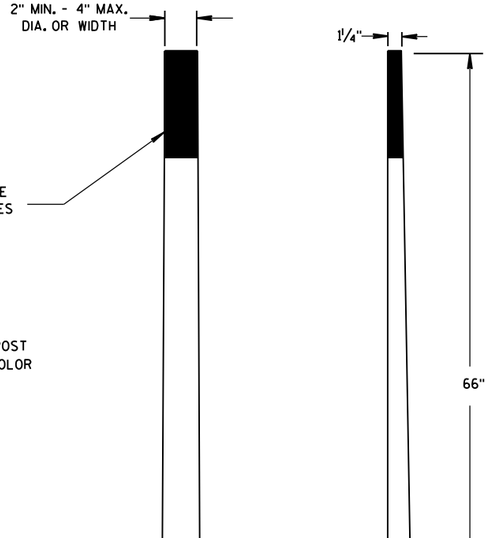
S.D.D. 15 A 3-2a





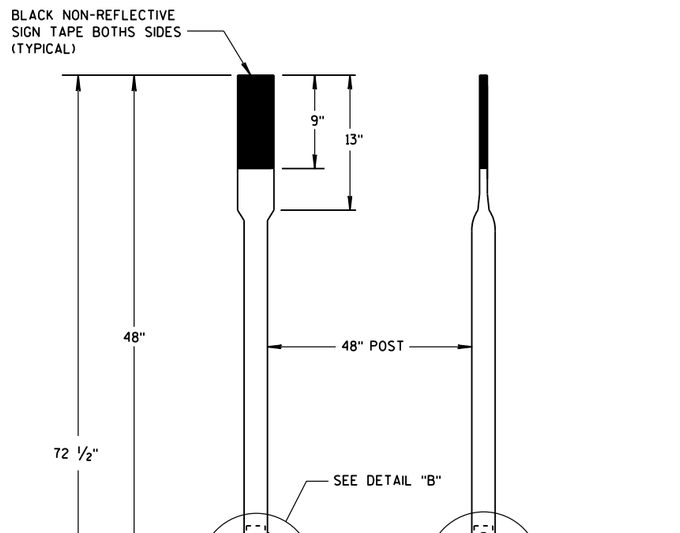
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

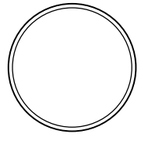
ALTERNATE 2



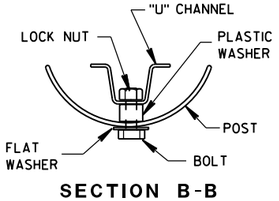
FRONT VIEW SIDE VIEW

ALTERNATE 3

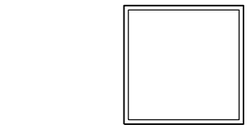
FLEXIBLE MARKER POSTS



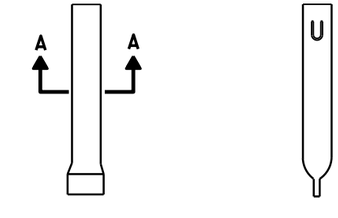
SECTION A-A



SECTION B-B

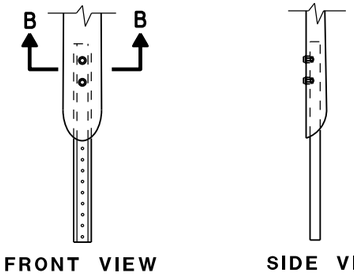


SECTION C-C



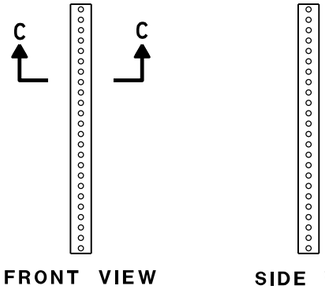
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

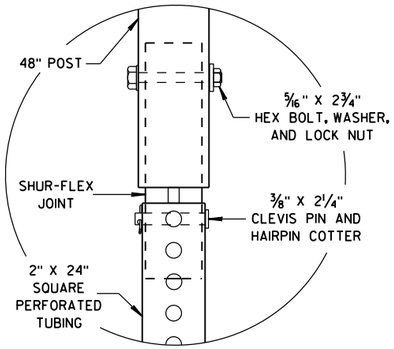
ALTERNATE 2



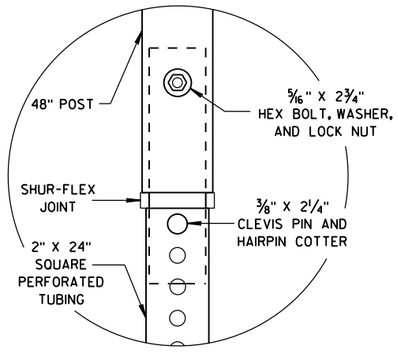
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

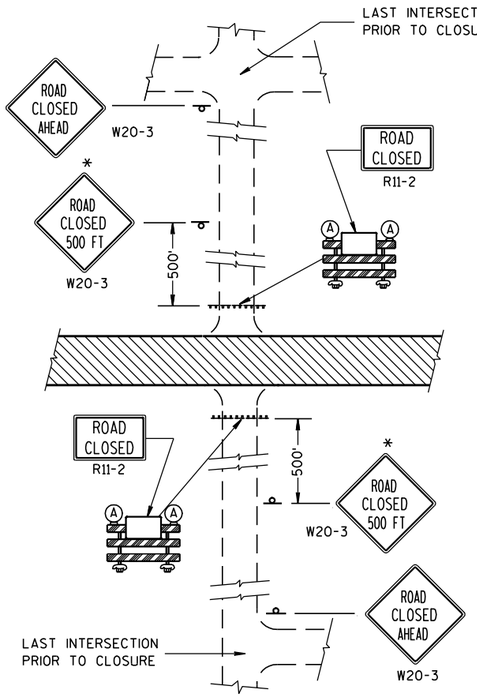
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 A 3-2b

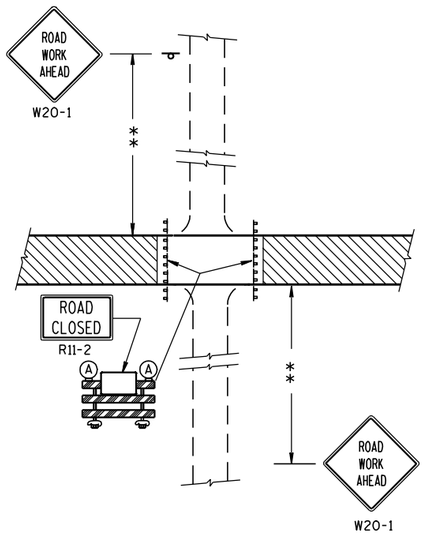
6

S.D.D. 15 A 3-2b



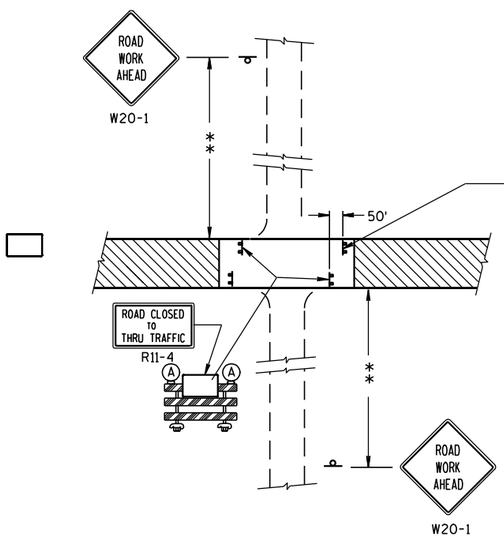
DETAIL 1

(NO ACCESS TO PROJECT)



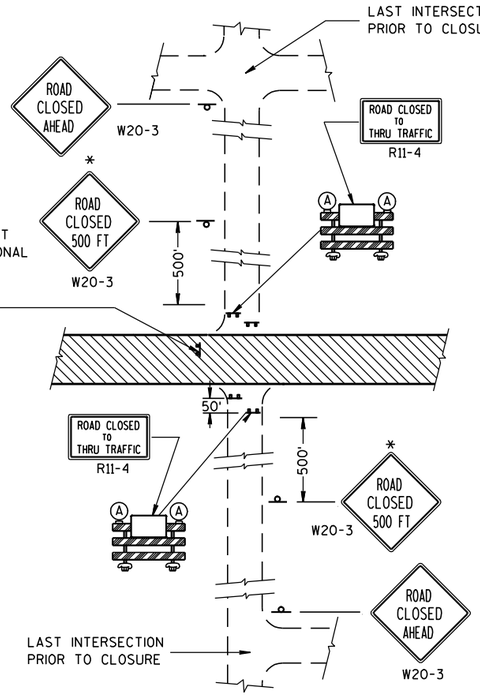
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3 AND R11-4 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- POST MOUNTED WARNING SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9-16-03 DATE

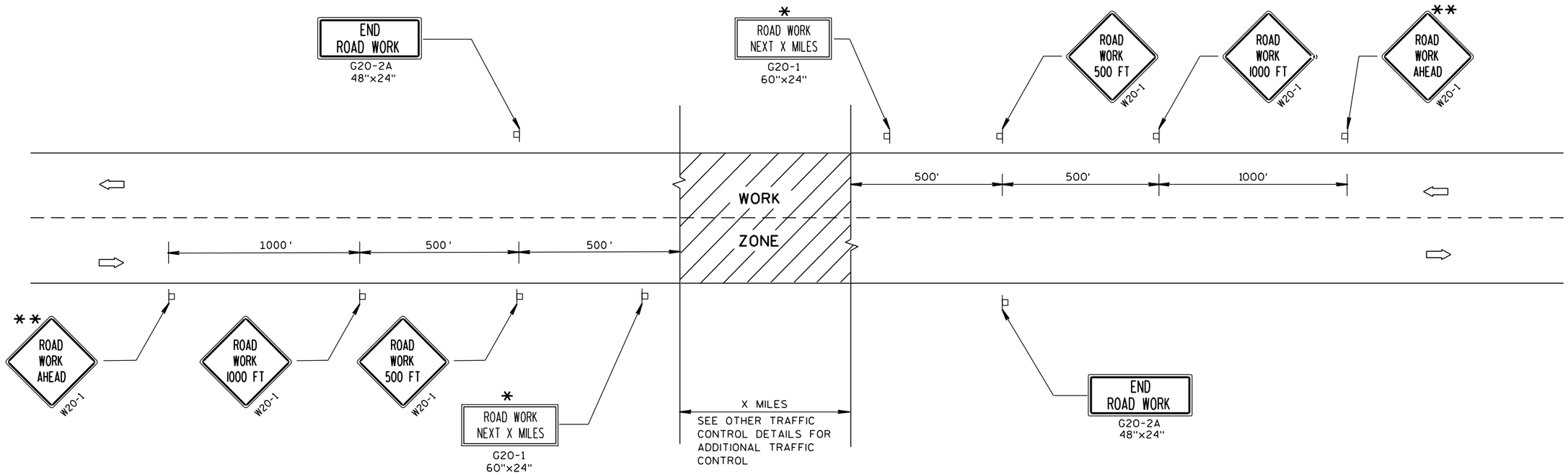
/S/ Thomas N. N[illegible] CHIEF SIGNS AND MAR[illegible] ENGINEER

FHWA

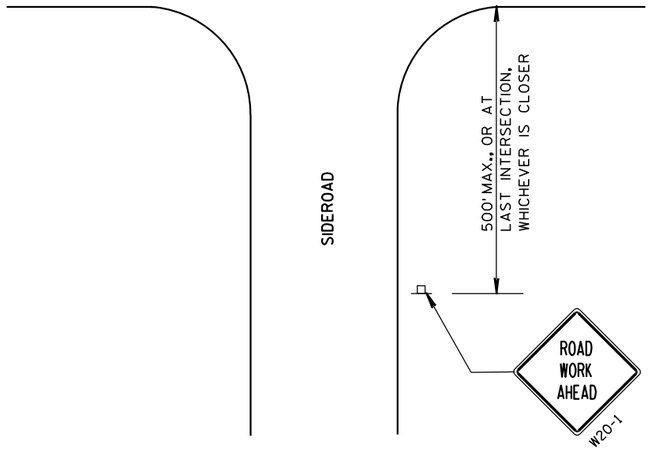
626

6

S.D.D. 15 C 3-1



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING.

LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00 DATE

/S/ Chester J. [illegible] 627 CHIEF SIGNS AND MARKING ENGINEER

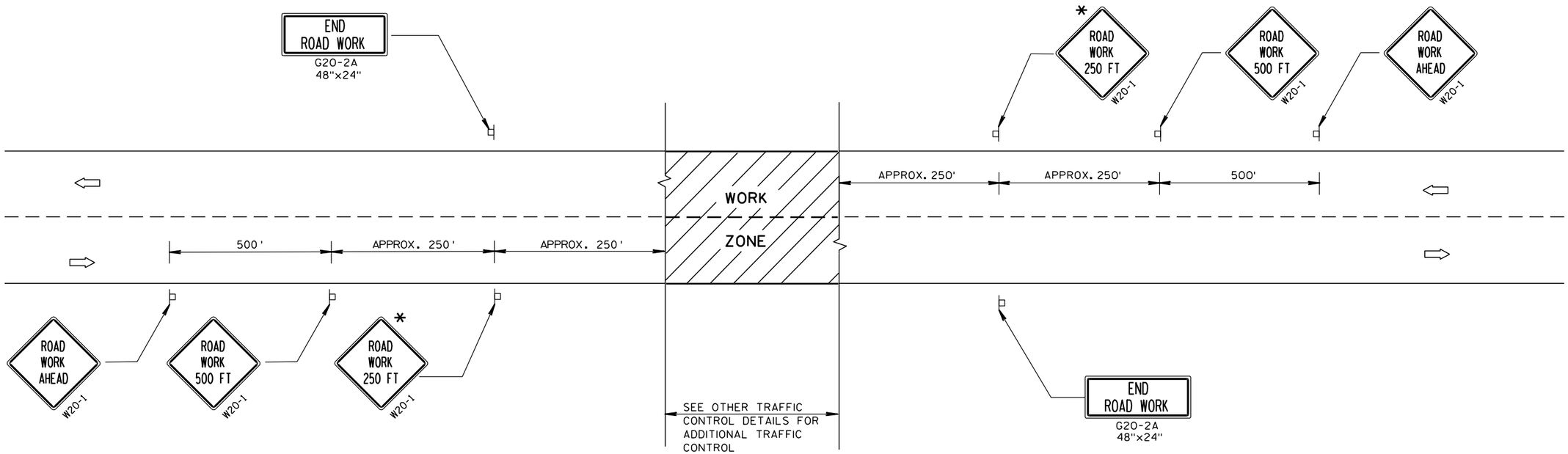
FHWA

6

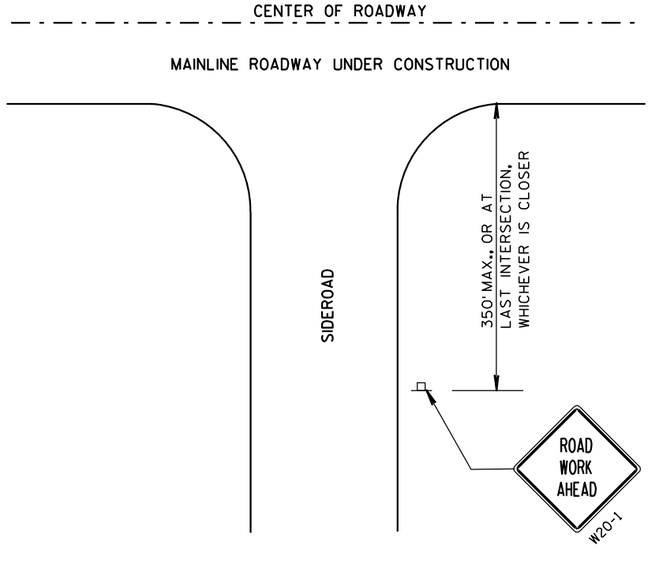
S.D.D. 15 C 4-1

6

S.D.D. 15 C 4-1



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/23/00
DATE

/S/ Chester J. [illegible]
CHIEF SIGNS AND MARKING ENGINEER

FHWA

6

S.D.D. 15 C 5-1

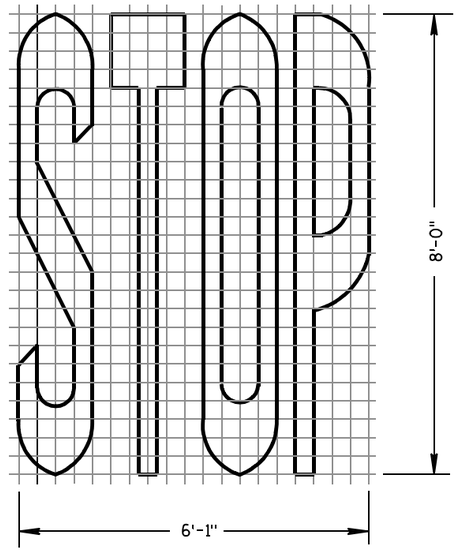
6

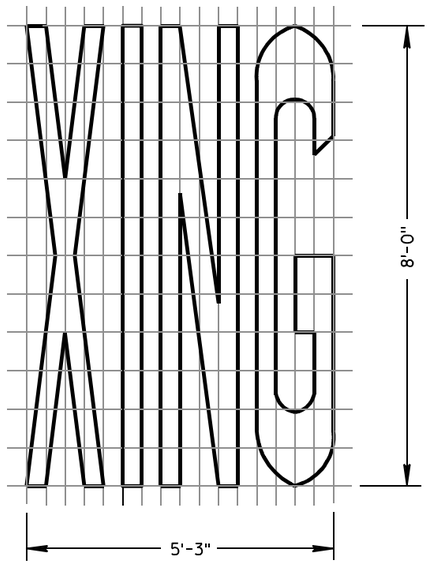
S.D.D. 15 C 5-1

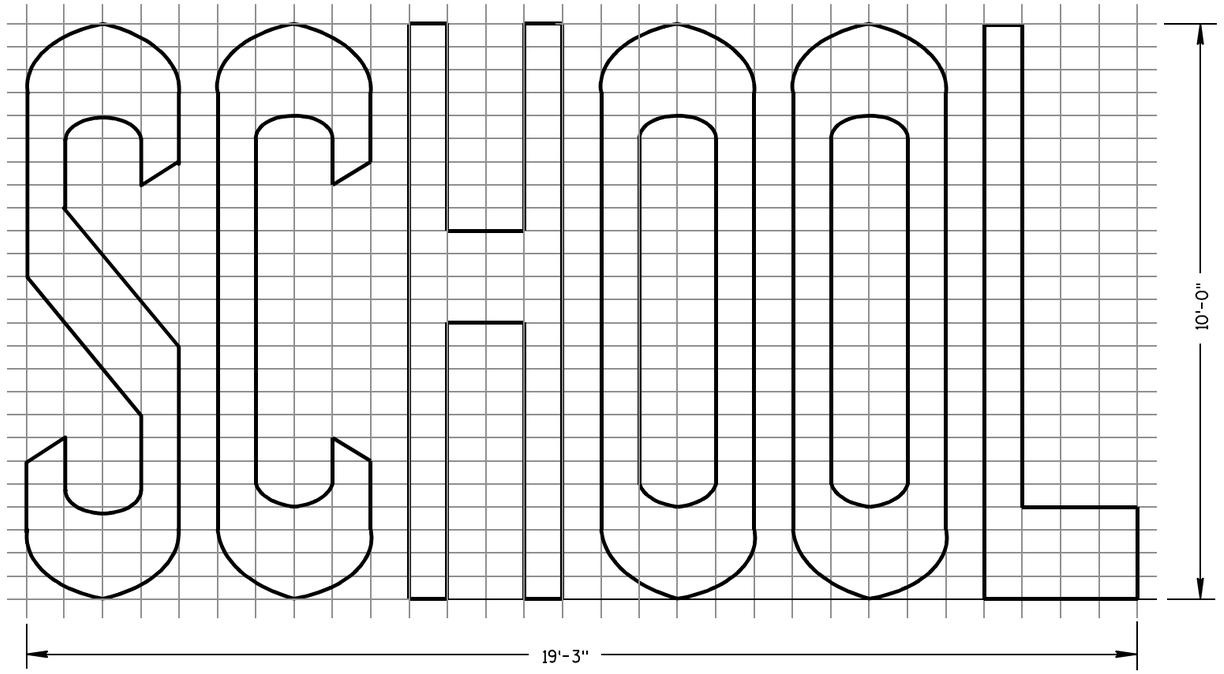
GENERAL NOTES

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.

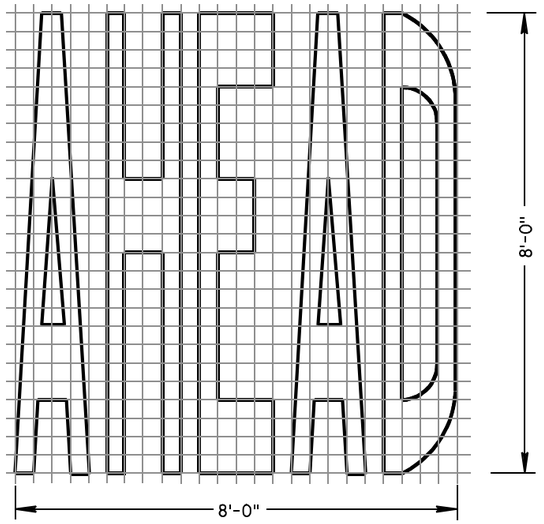
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

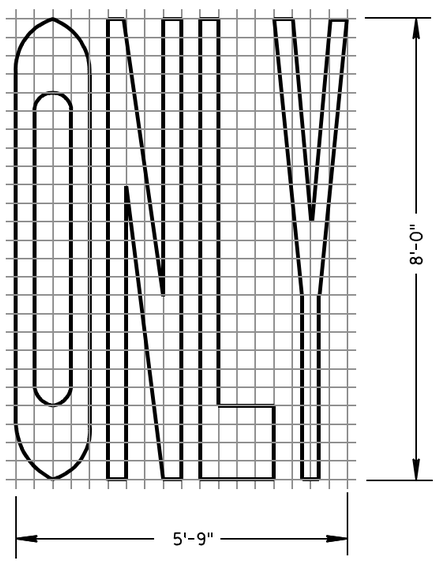


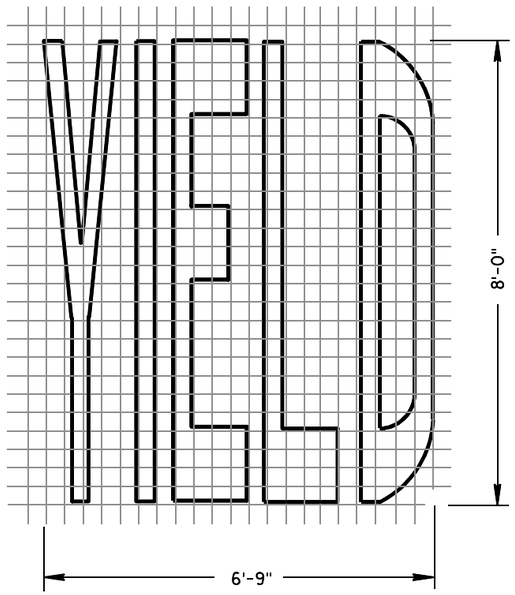


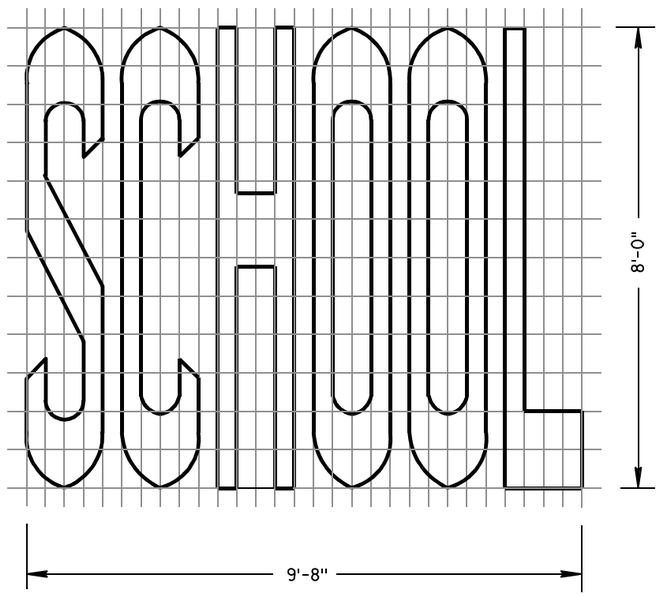


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 — DATE

/S/ Thomas N. Nothohm — STATE TRAFFIC ENGINEER

FHWA

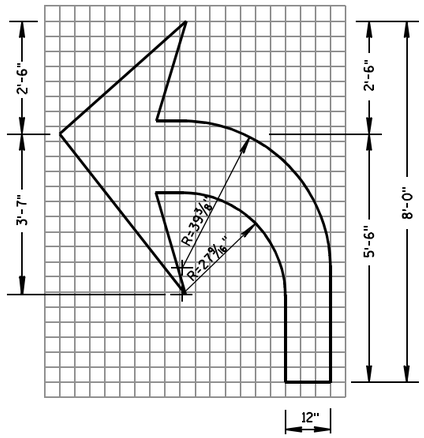
IGN

6

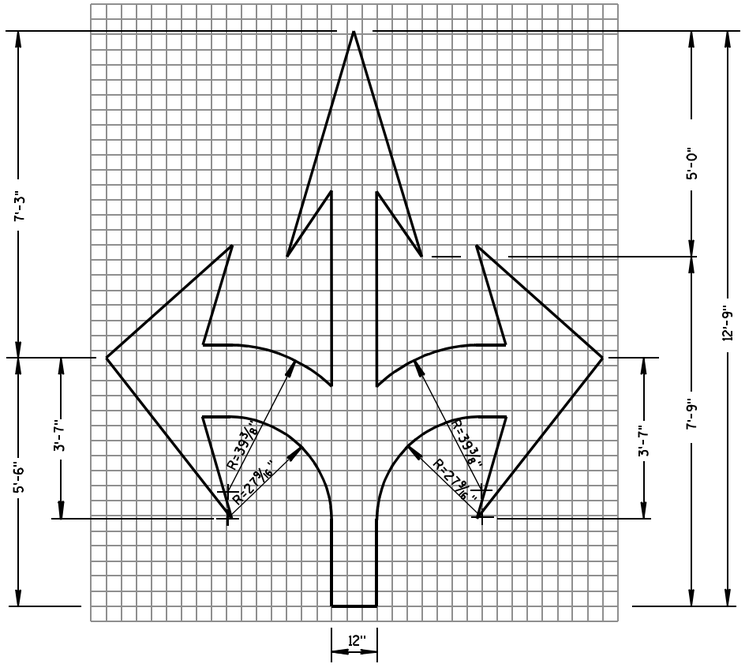
S.D.D. 15 C 7-12b

6

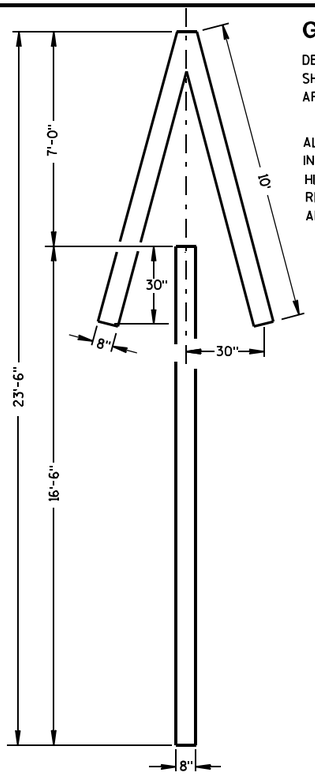
S.D.D. 15 C 7-12b



TYPE 2



TYPE 6

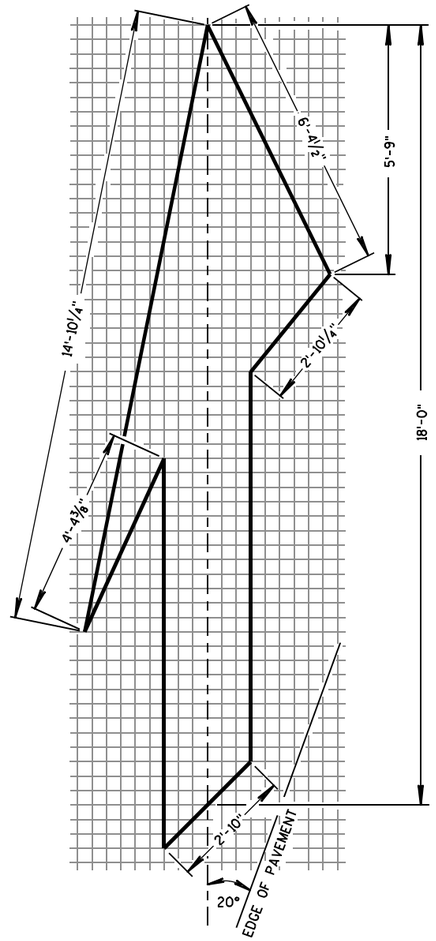


TYPE 4

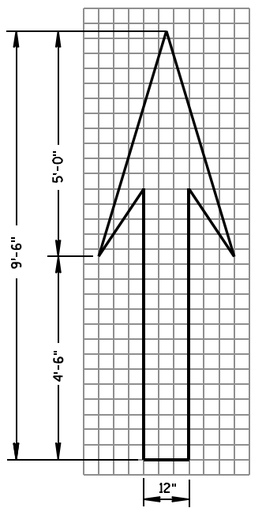
GENERAL NOTES

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

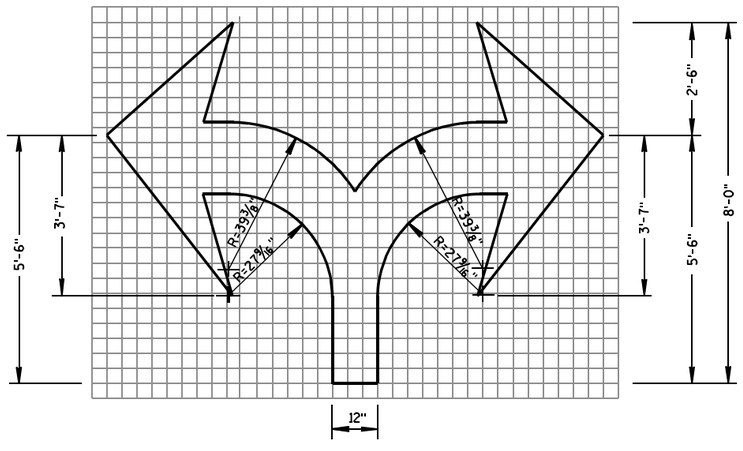
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



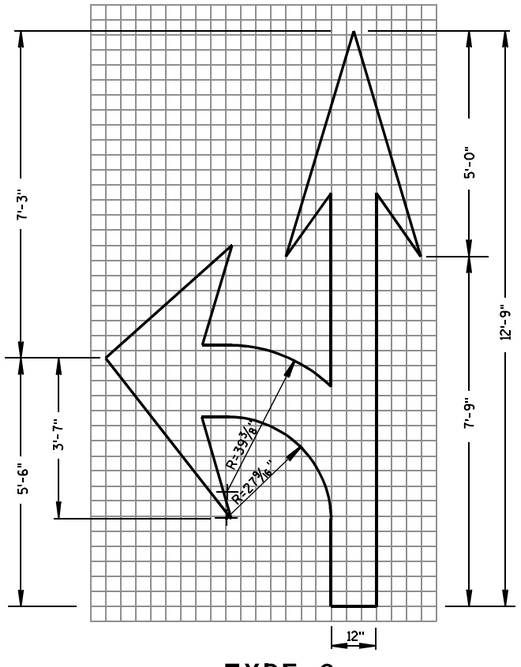
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

FHWA

630

6

S.D.D. 15 C 7-12c

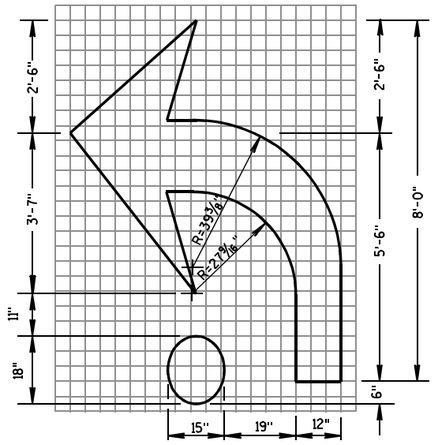
6

S.D.D. 15 C 7-12c

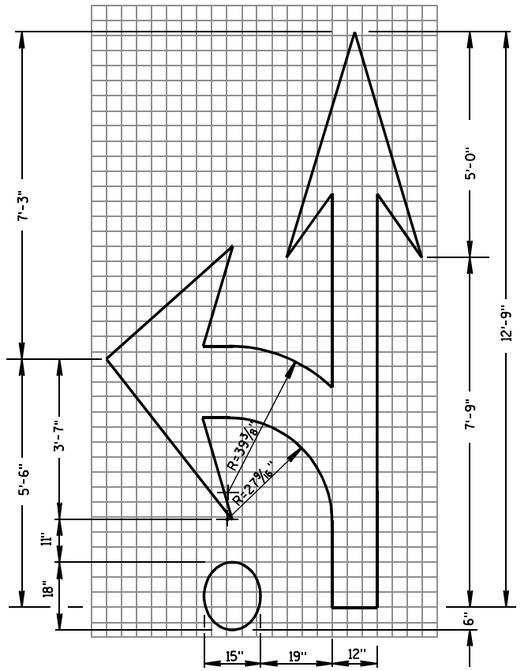
GENERAL NOTES

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

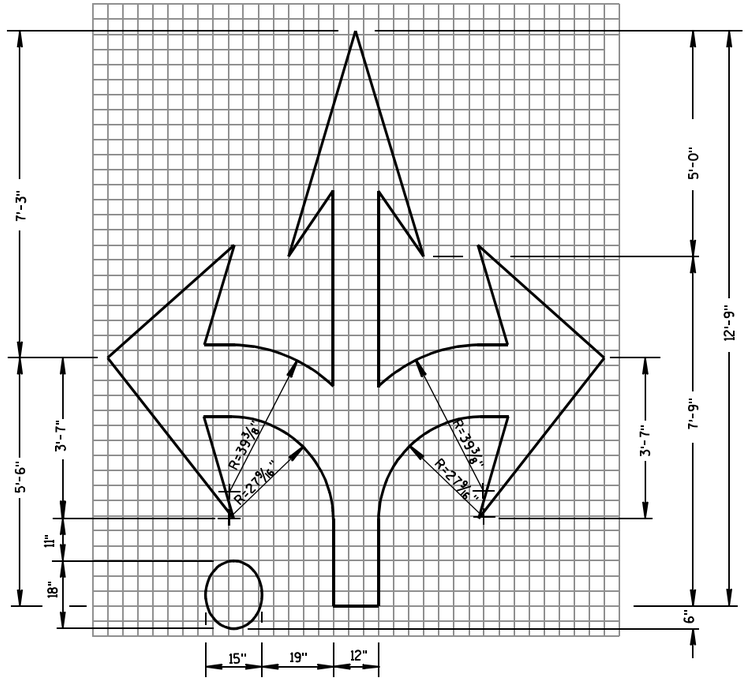
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



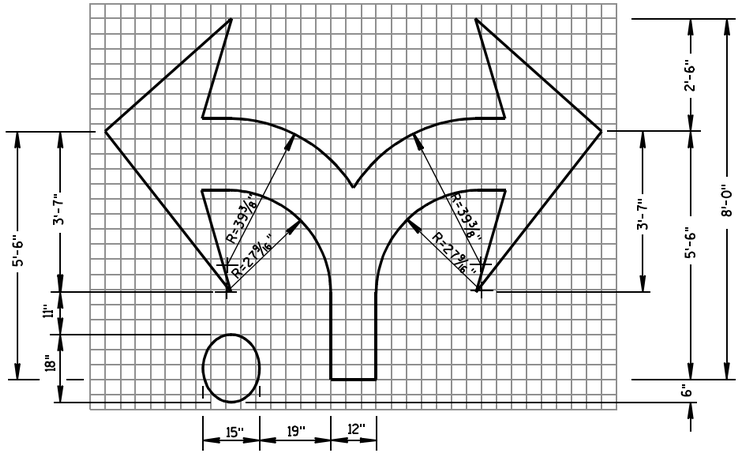
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

ROUNDABOUT ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

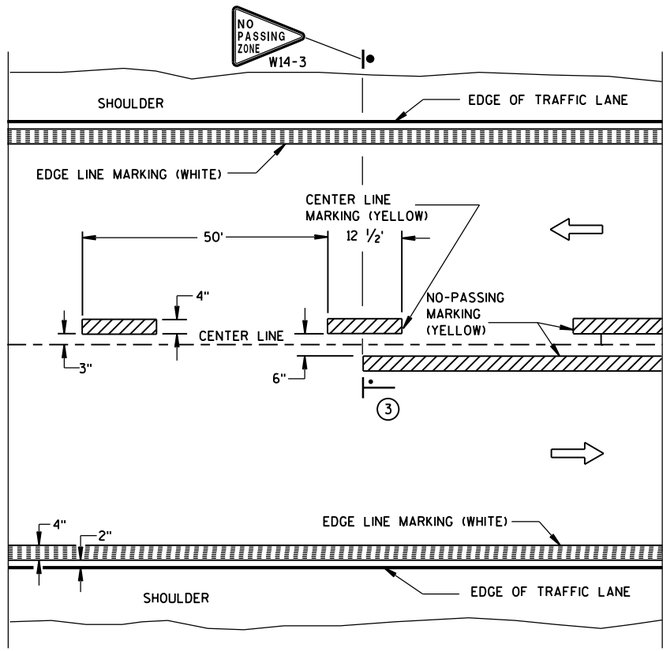
7/1/11 — DATE

/S/ Thomas N. Nothdurm — STATE TRAFFIC ENGINEER

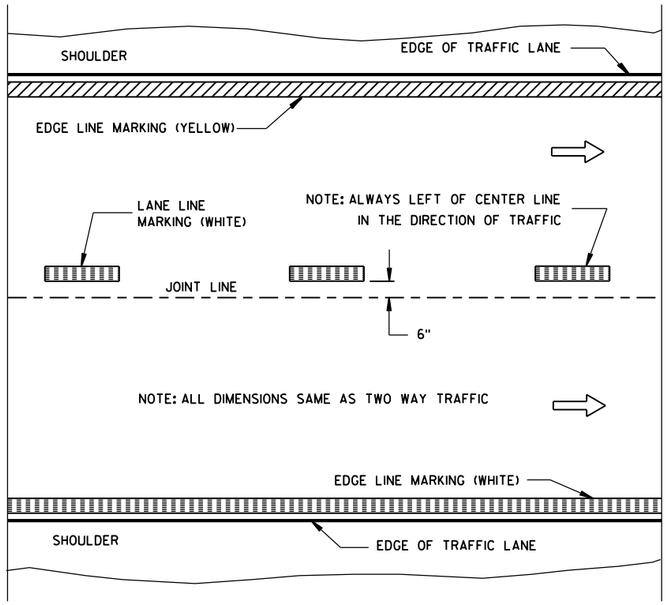
FHWA

6

S.D.D. 15 C 7-12d

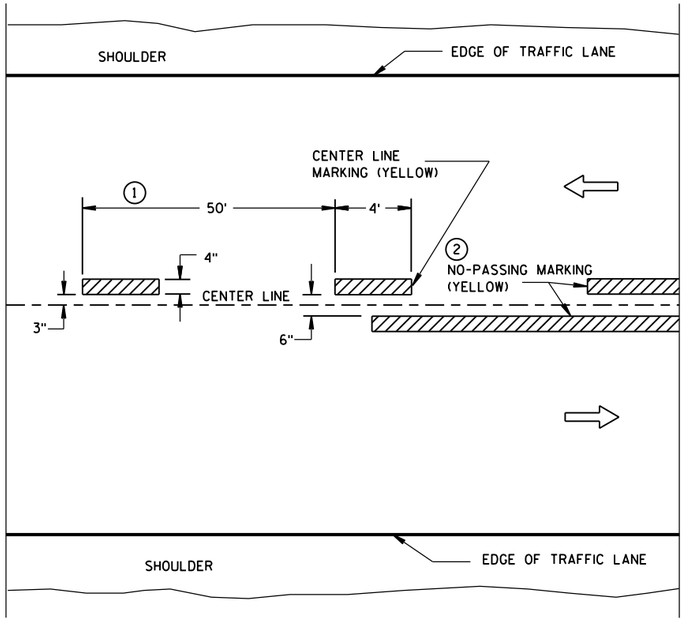


TWO WAY TRAFFIC

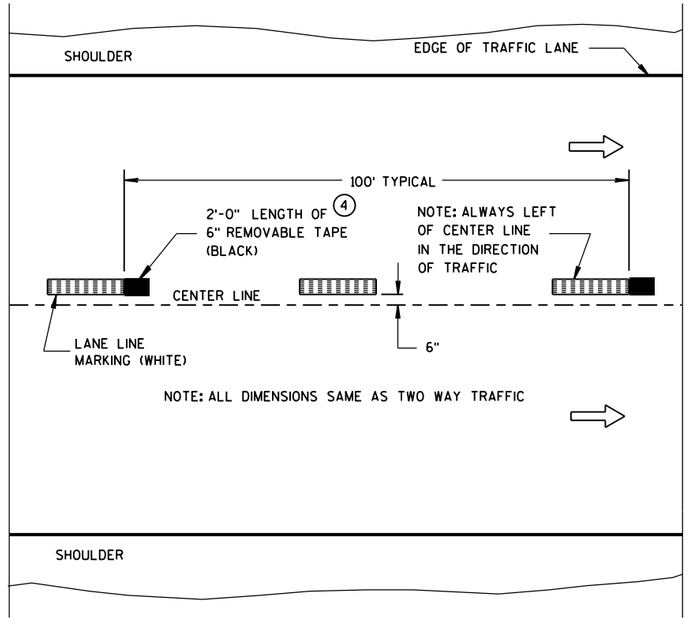


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

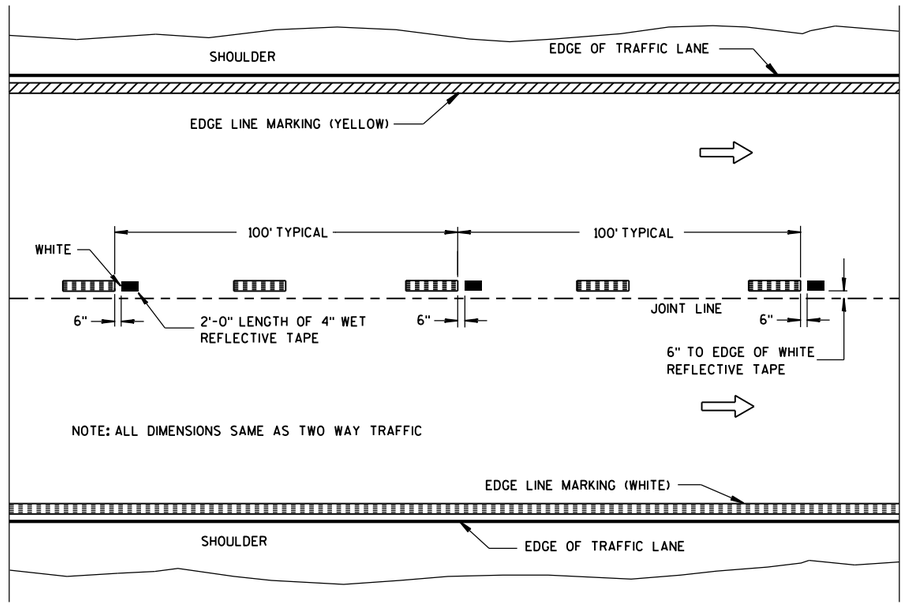
GENERAL NOTES

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

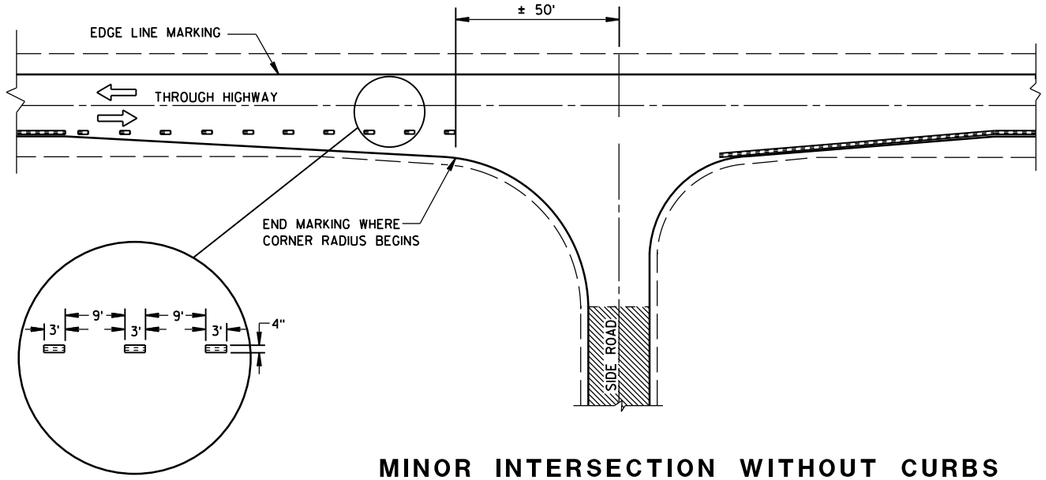
APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

6

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.

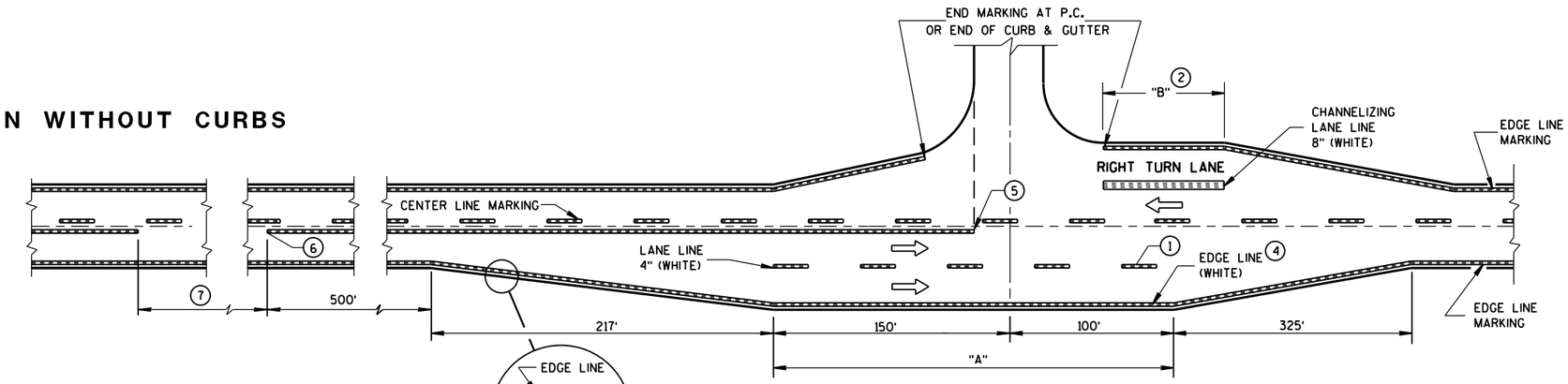
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

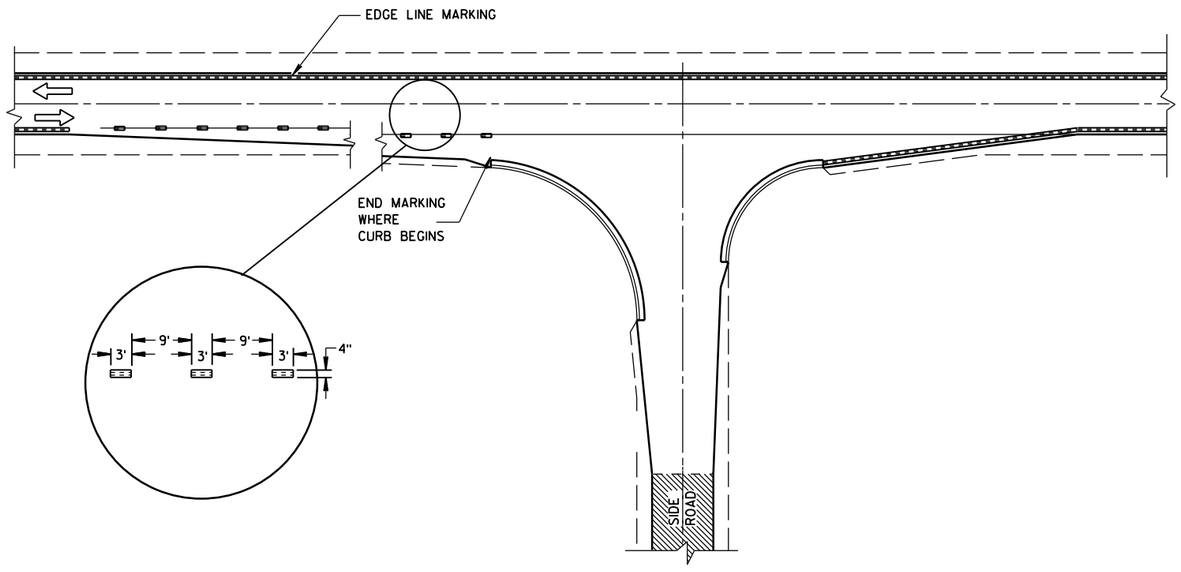
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



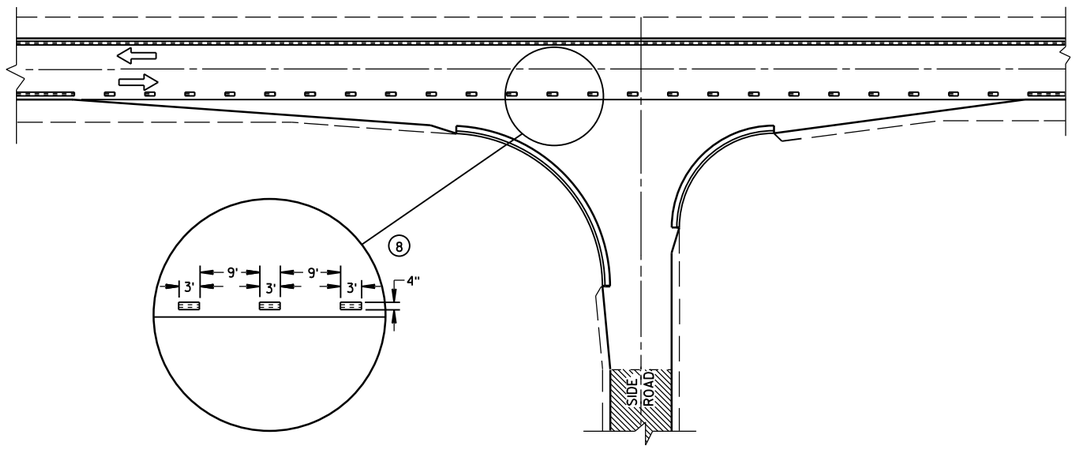
MAJOR INTERSECTIONS

(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)

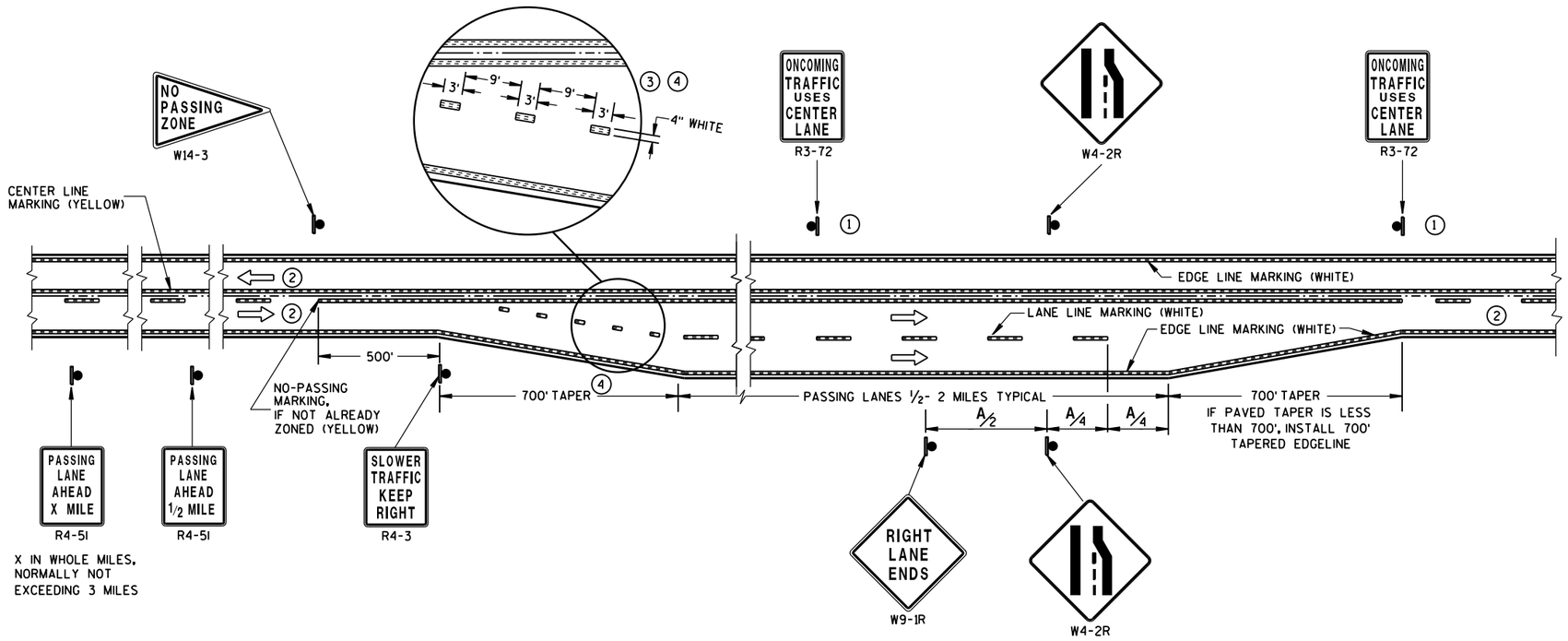
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 633

6

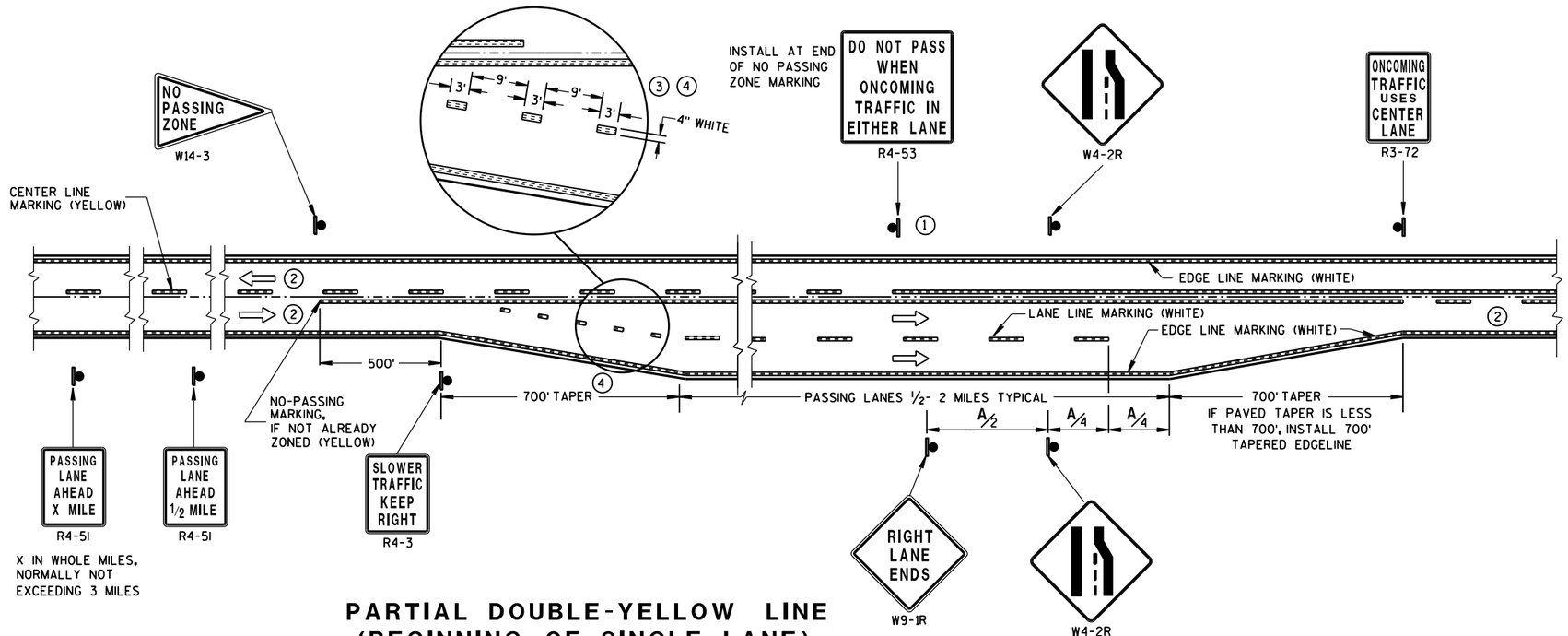
S.D.D. 15 C 8-16b

6

S.D.D. 15 C 8-16b



SOLID DOUBLE-YELLOW LINE
(THROUGHOUT ENTIRE PASSING/CLIMBING LANE)



PARTIAL DOUBLE-YELLOW LINE
(BEGINNING OF SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

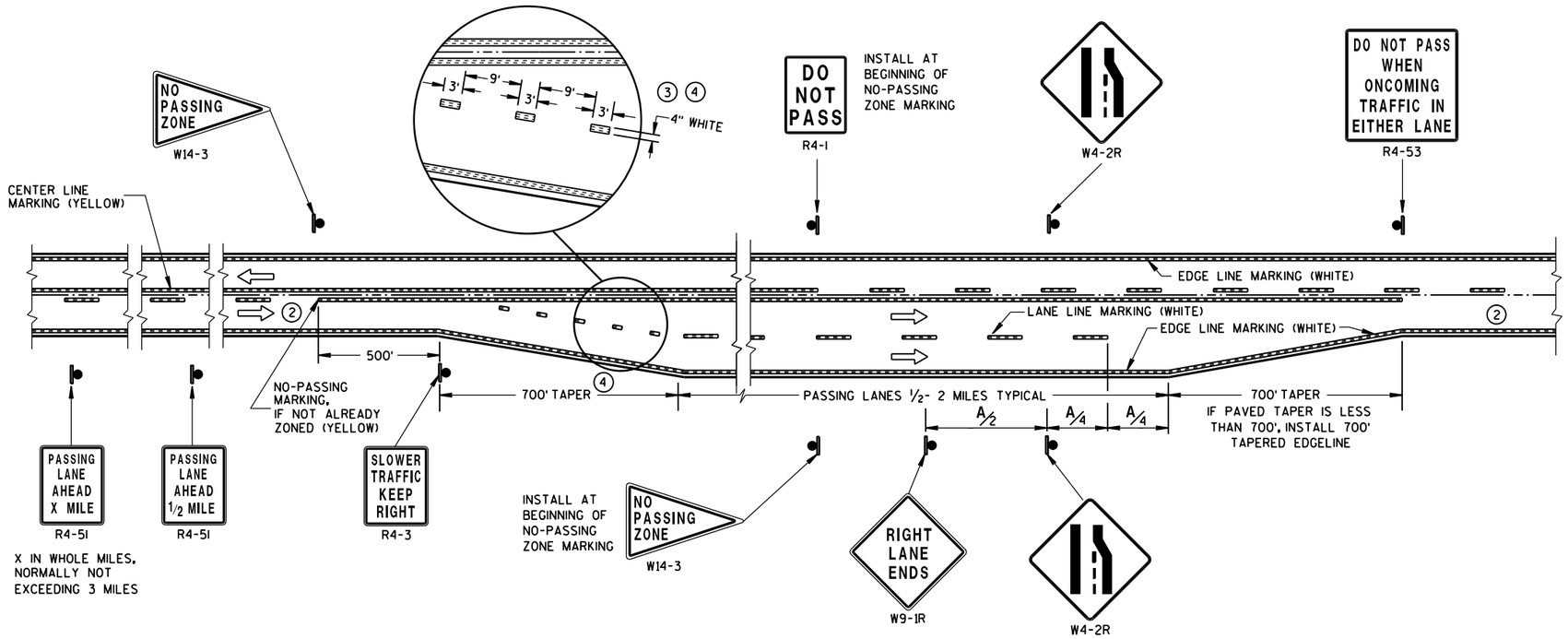
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

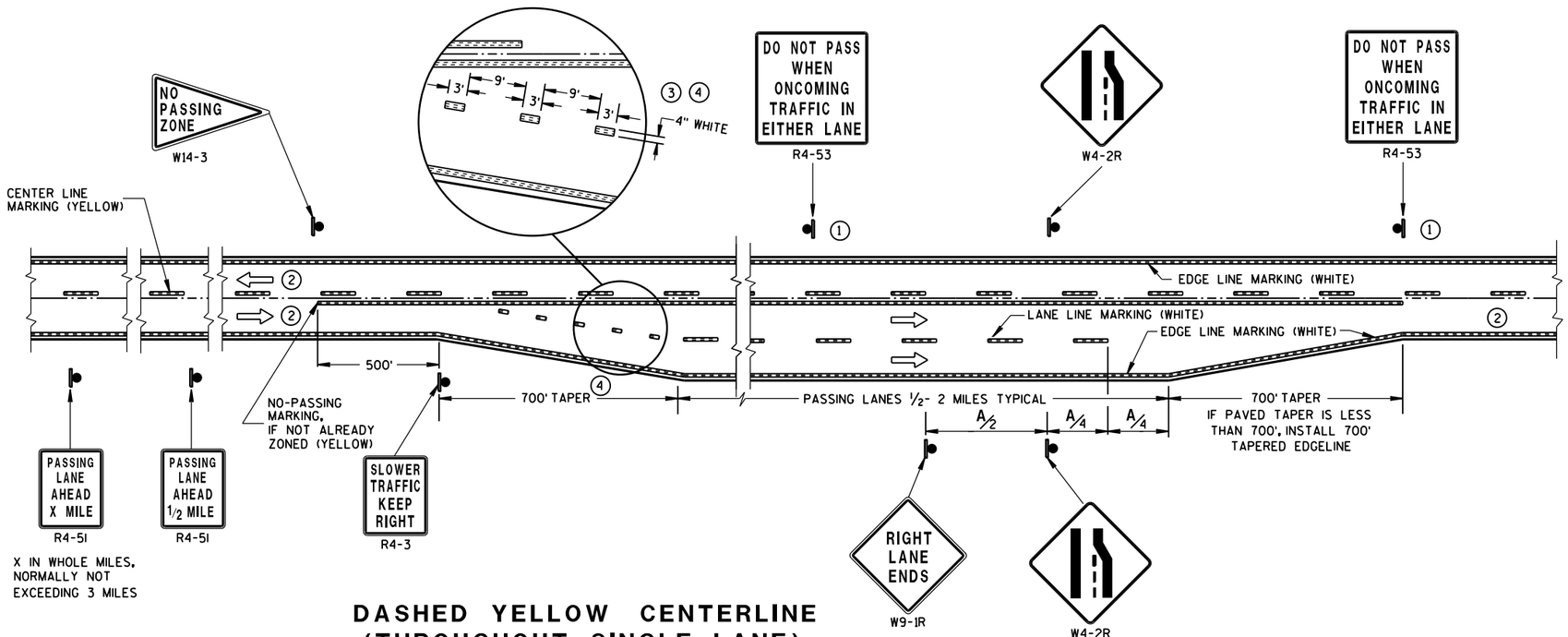
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

S.D.D. 15 C 8-16c

S.D.D. 15 C 8-16c



SOLID DOUBLE-YELLOW LINE (END OF SINGLE LANE)



DASHED YELLOW CENTERLINE (THROUGHOUT SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT 1/2 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
2. THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
3. THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3'LINE 9'GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
4. WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

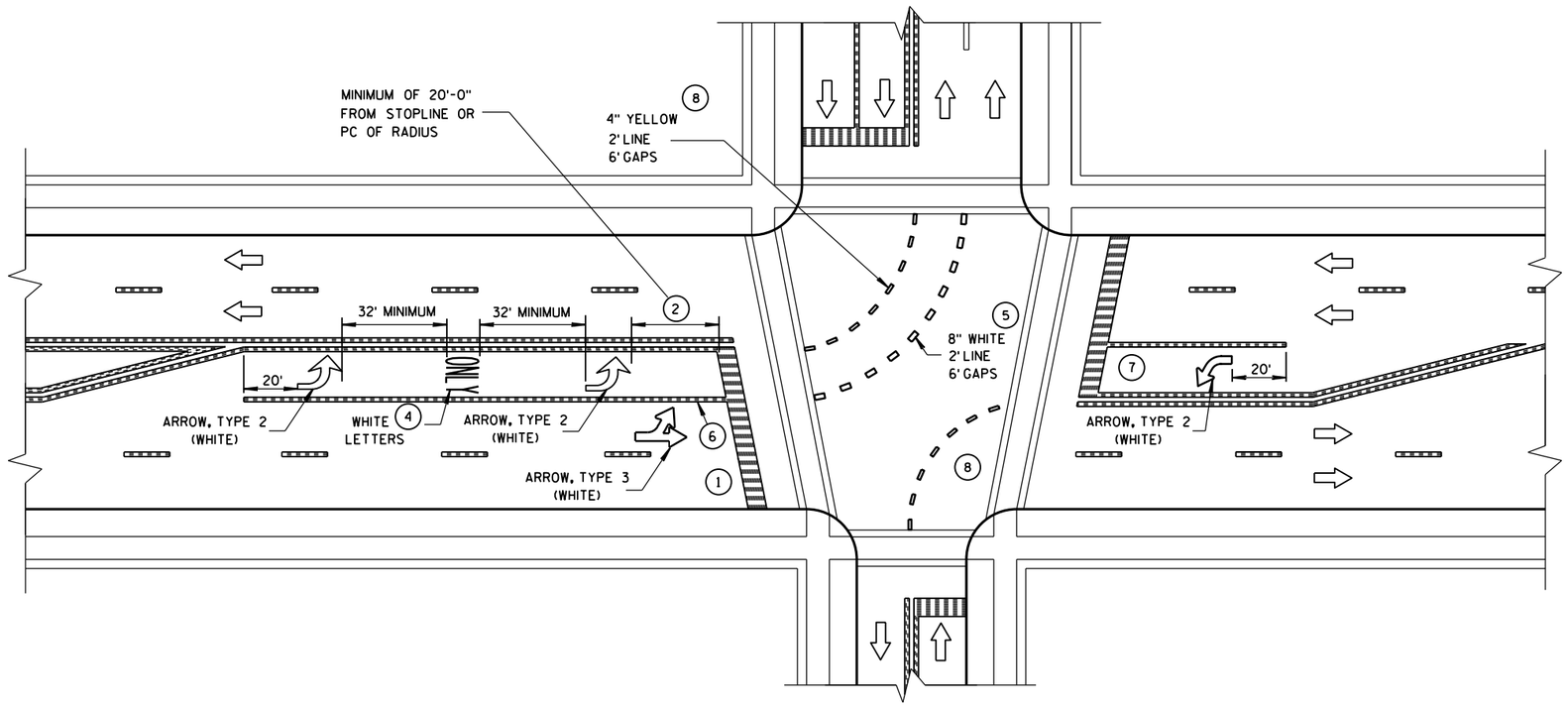
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

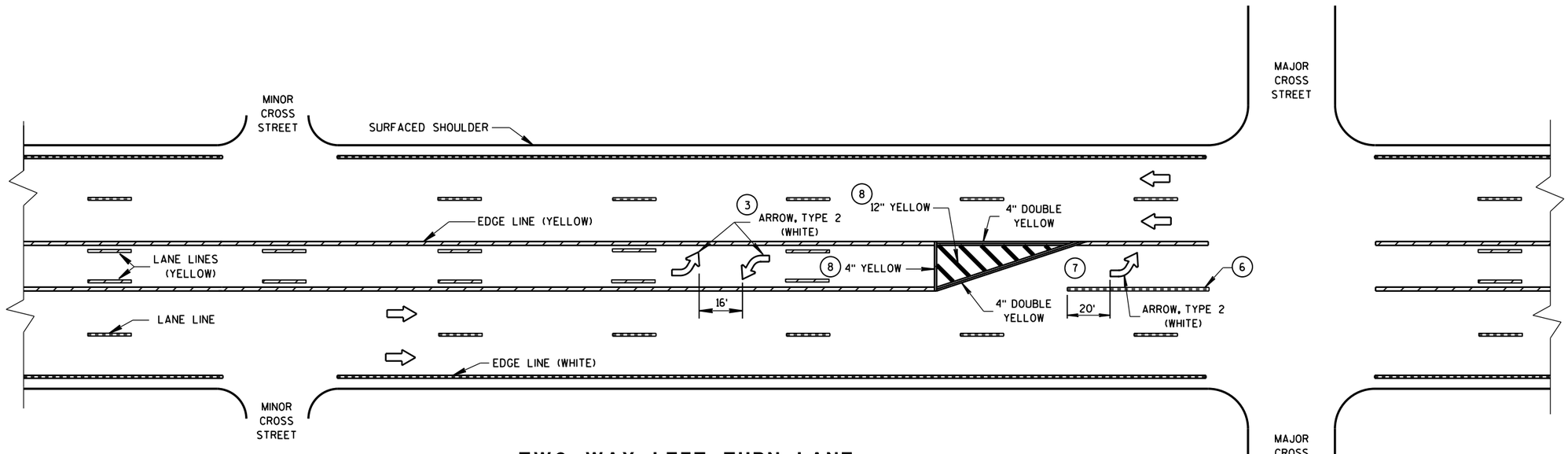
S.D.D. 15 C 8-16d



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)

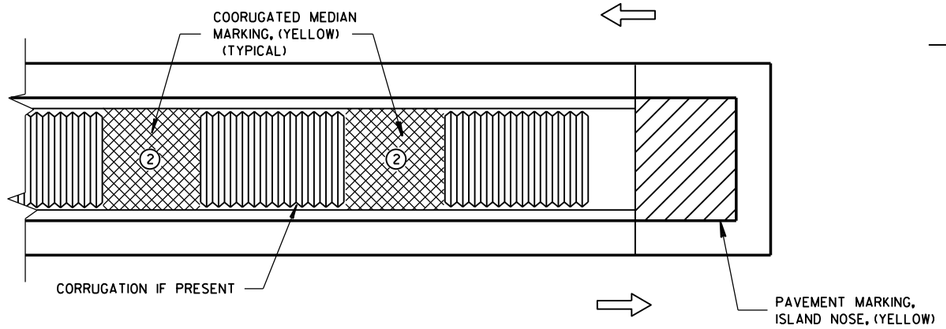
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

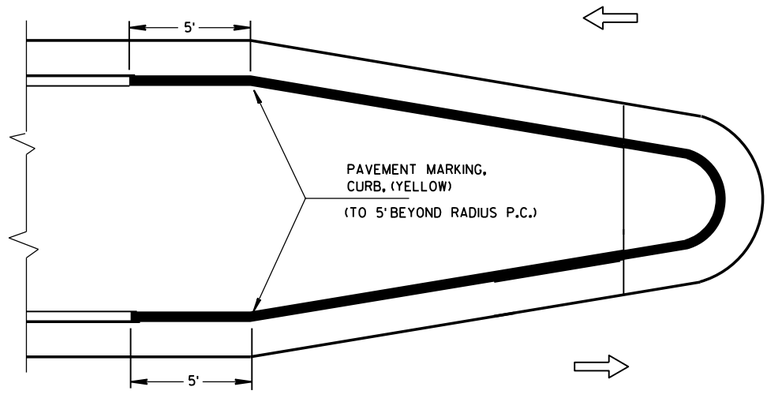
S.D.D. 15 C 8-16e

6

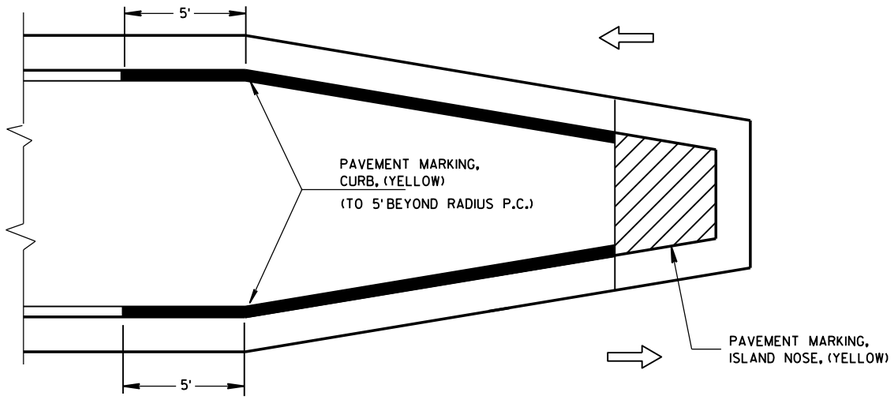
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

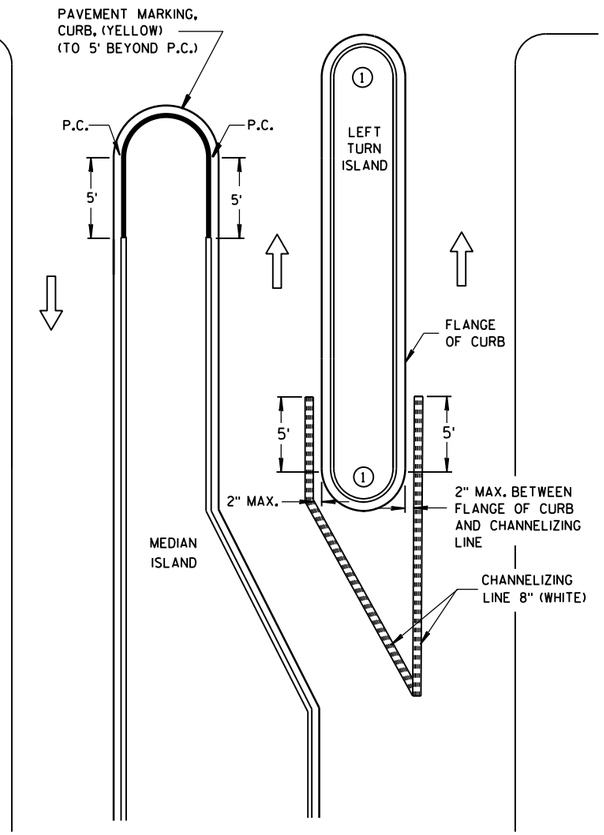


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

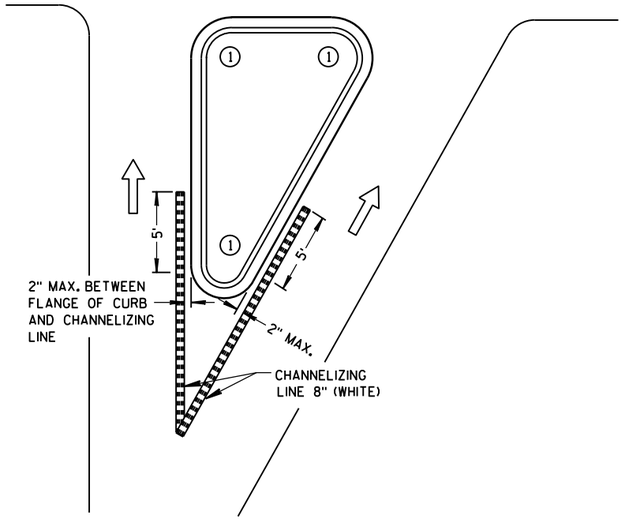


LEFT TURN & MEDIAN ISLAND

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)

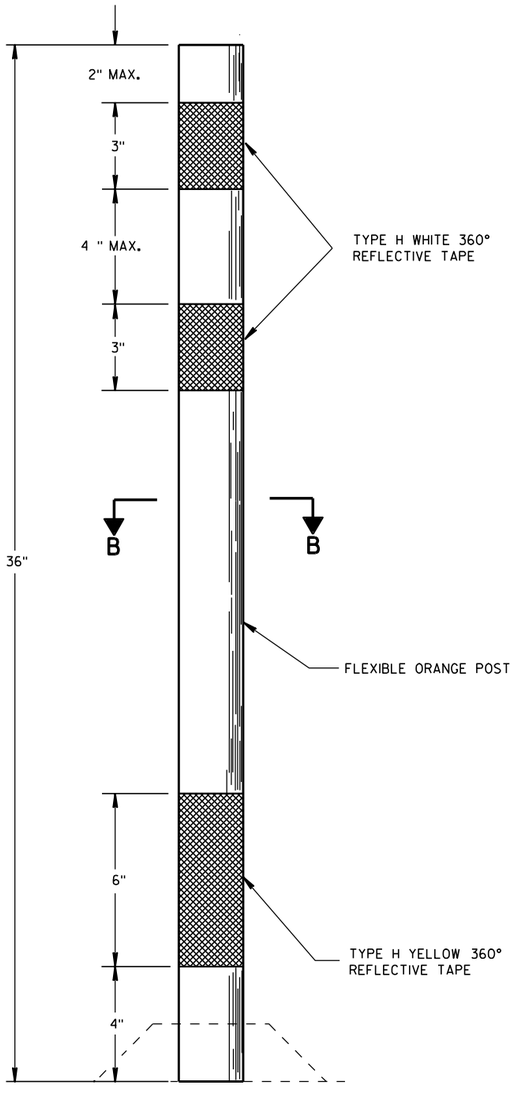
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

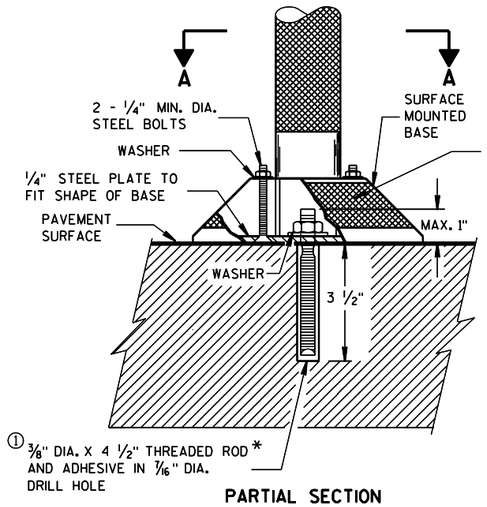
S.D.D. 15 C 8-16f

6

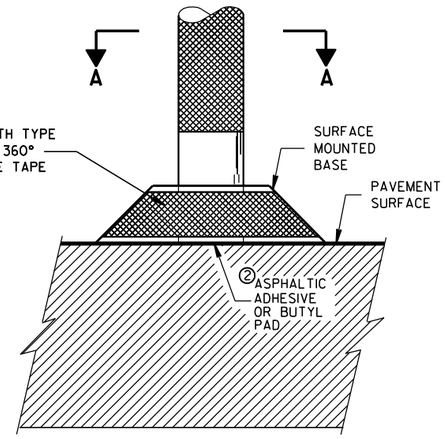
S.D.D. 15 C 8-16f



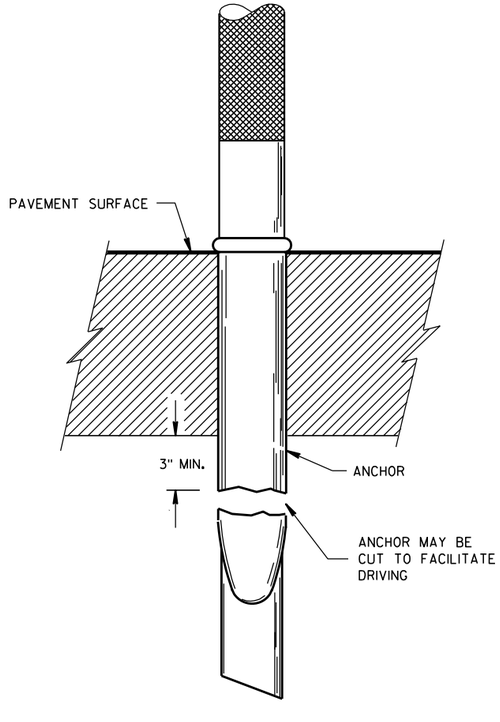
FLEXIBLE TUBULAR MARKER POST



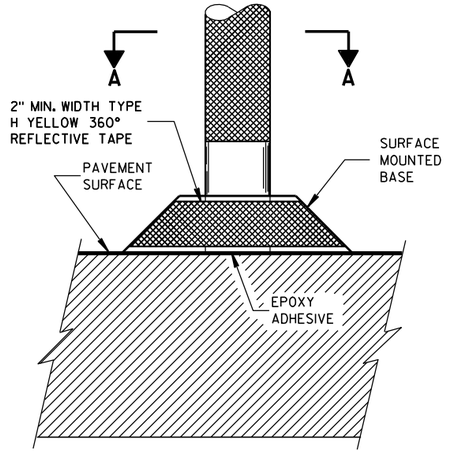
PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT



POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED



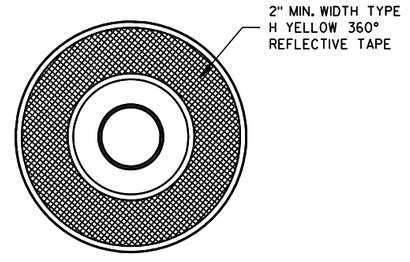
GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

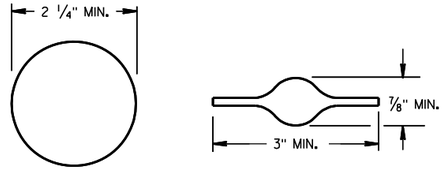
① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



SECTION A-A

SURFACE MOUNTED BASE



SECTION B-B

ALTERNATIVE SHAPES

FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
2/17/94 DATE	/S/ Chester J. [illegible] DIRECTOR, OFFICE O 638
FHWA	

6

S.D.D. 15 C 11-5

6

S.D.D. 15 C 11-5

TWO-LANE ROADWAY

SYMBOLS

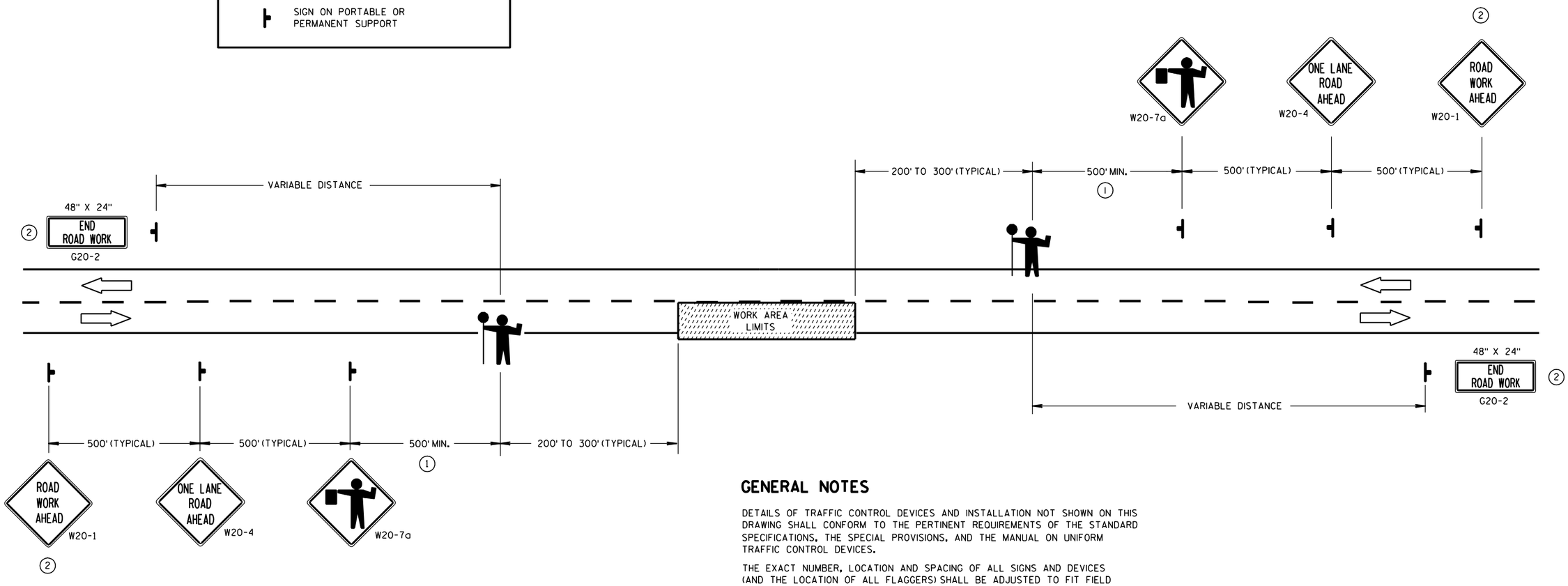
WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN ON PORTABLE OR PERMANENT SUPPORT

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

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

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/5/06 — DATE

/S/ Thomas N. Nathaam — STATE TRAFFIC ENGINEER

639

FHWA

6

S.D.D. 15 C 12-3

6

S.D.D. 15 C 12-3

GENERAL NOTES

ORIENT ANCHOR BOLTS IN FOOTING AND PROVIDE ANCHOR BOLT STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR BOLTS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

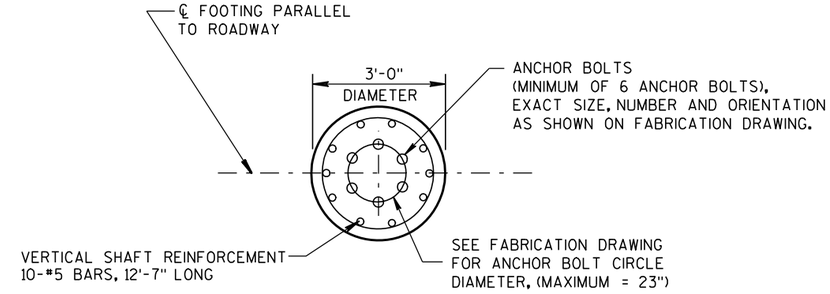
IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

THE REINFORCEMENT AND ANCHOR BOLTS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

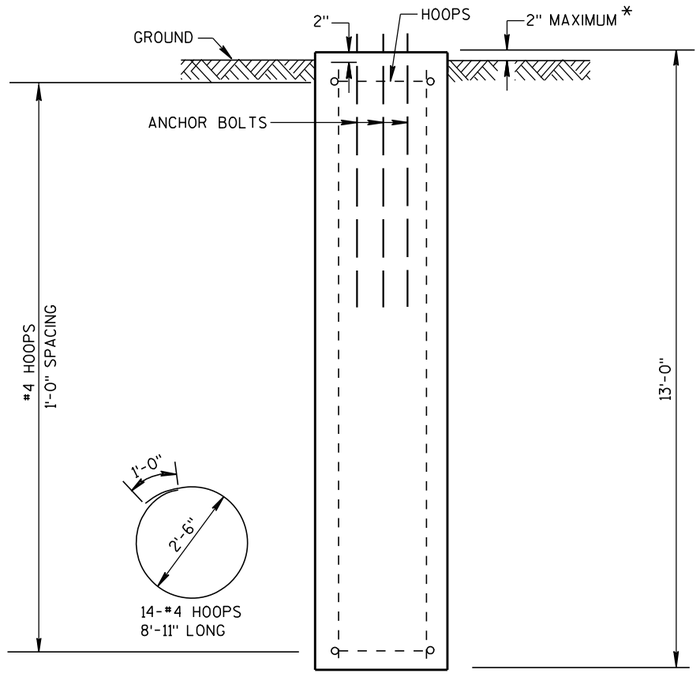
ANY DAMAGE TO THE CONCRETE BASE DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR BOLTS	AASHTO M314 GRADE 55

THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



PLAN VIEW



ELEVATION VIEW

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.

CONCRETE - 3.4 C.Y. PER FOOTING
H.S. REINFORCEMENT - 215 LBS. PER FOOTING

36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

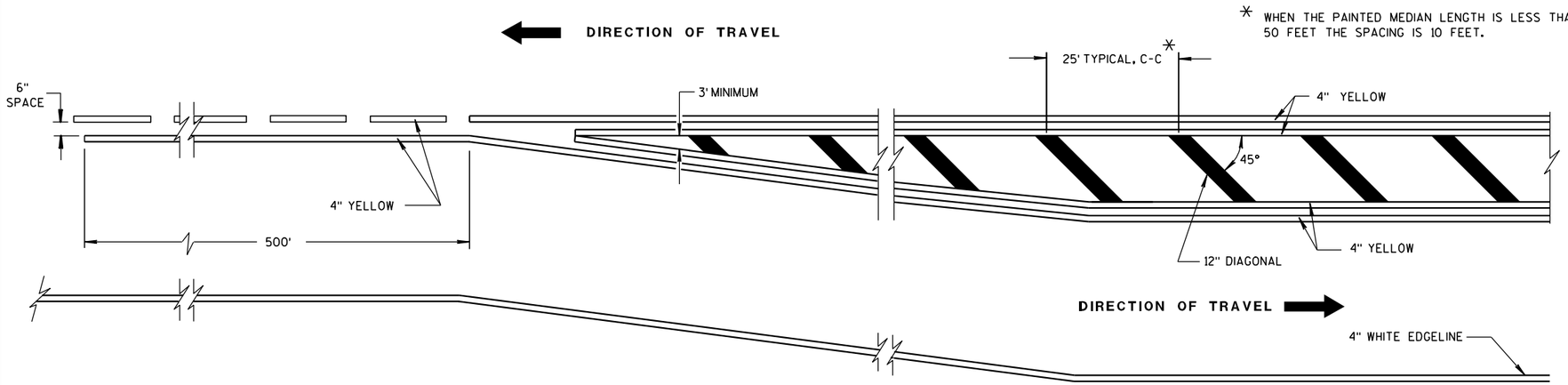
4/17/09
DATE

/S/ Thomas N. Nothdurm
STATE TRAFFIC ENGINEER

FHWA

6

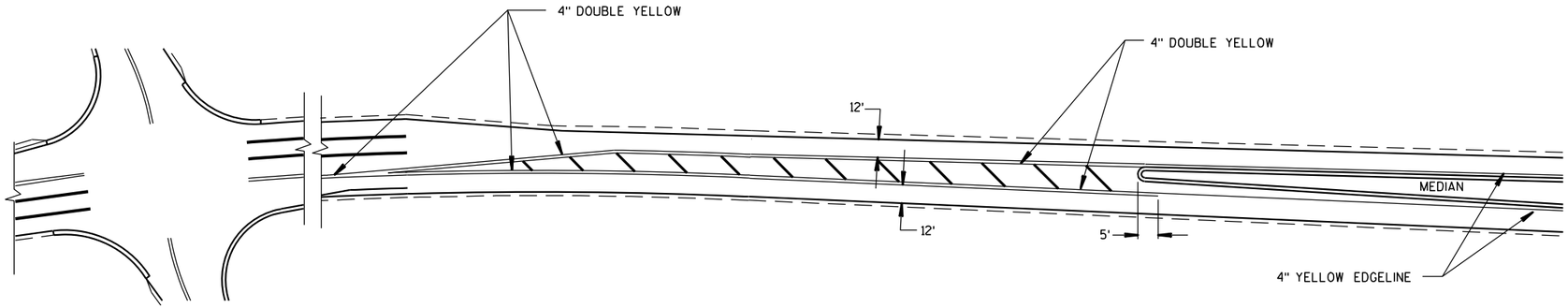
S.D.D. 15 C 15-3



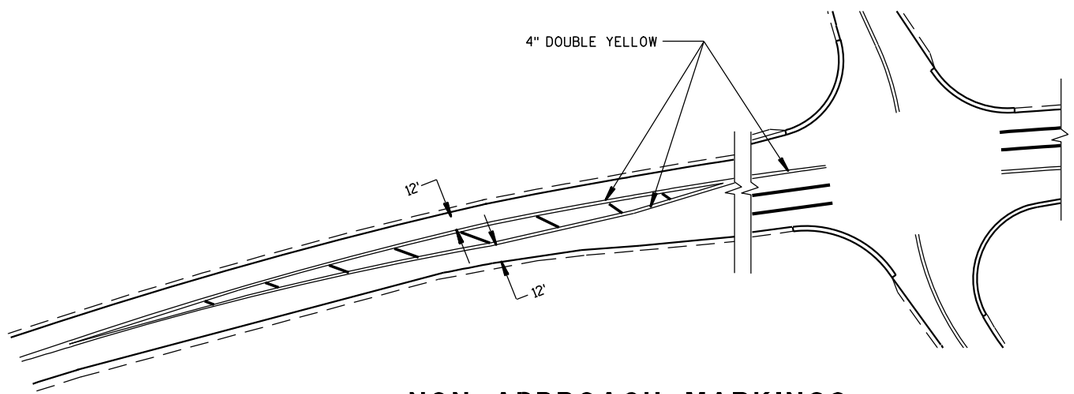
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

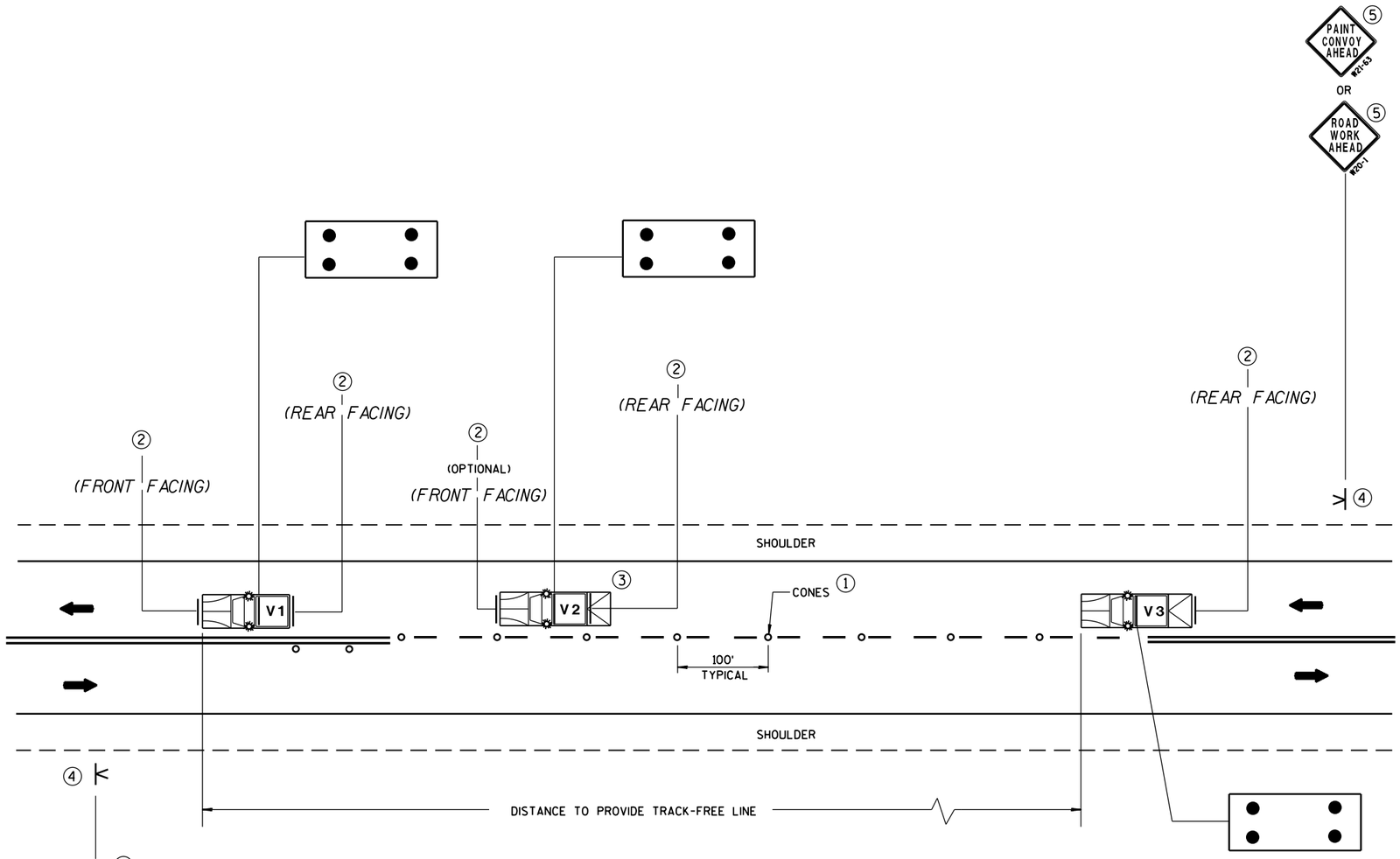
MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER 641 IGN
FHWA	

6

S.D.D. 15 C 18-3

6

S.D.D. 15 C 18-3



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 PORTABLE SUPPORT
	DIRECTION OF TRAVEL
	CONES
	FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

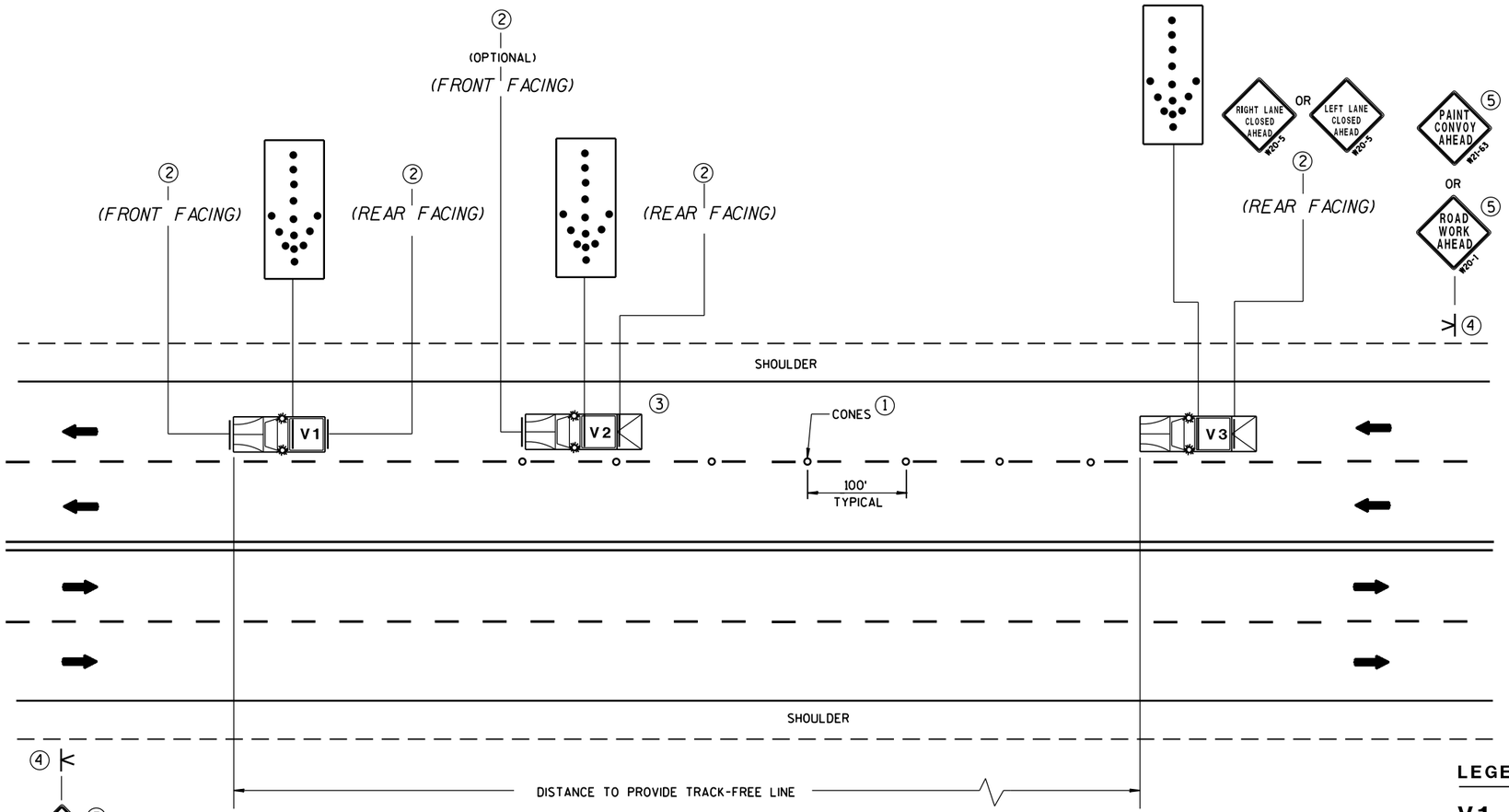
APPROVED
12/6/2011 DATE
/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 C 19-1a

6

S.D.D. 15 C 19-1a



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED 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 PORTABLE SUPPORT
	DIRECTION OF TRAVEL
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

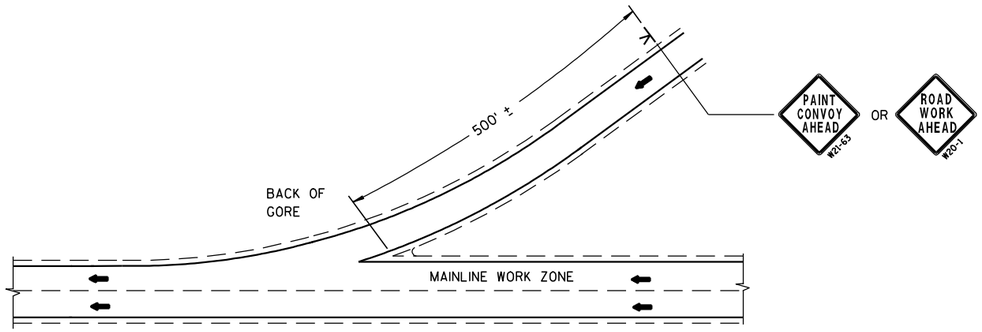
APPROVED
12/6/2011 DATE
/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER
643
FHWA

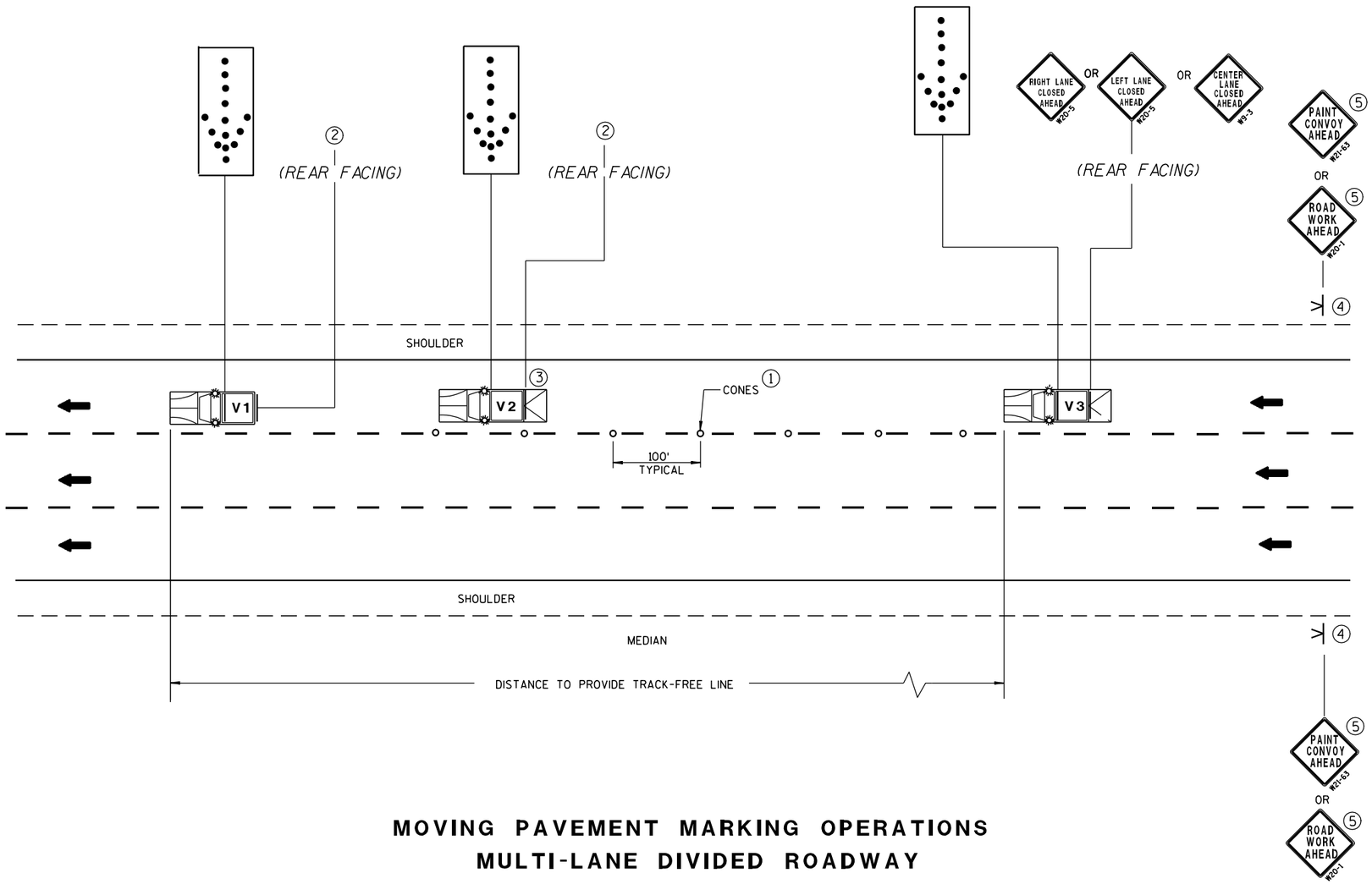
6

S.D.D. 15 C 19-1b

6

S.D.D. 15 C 19-1b





MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE DIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT ↙ W21-64 OR WET PAINT ↘ W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON PORTABLE SUPPORT
	DIRECTION OF TRAVEL
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/6/2011 DATE

/S/ Thomas N. Nothohm
STATE TRAFFIC ENGINEER

644 SIGN

FHWA

6

S.D.D. 15 C 19-1c

6

S.D.D. 15 C 19-1c

GENERAL NOTES

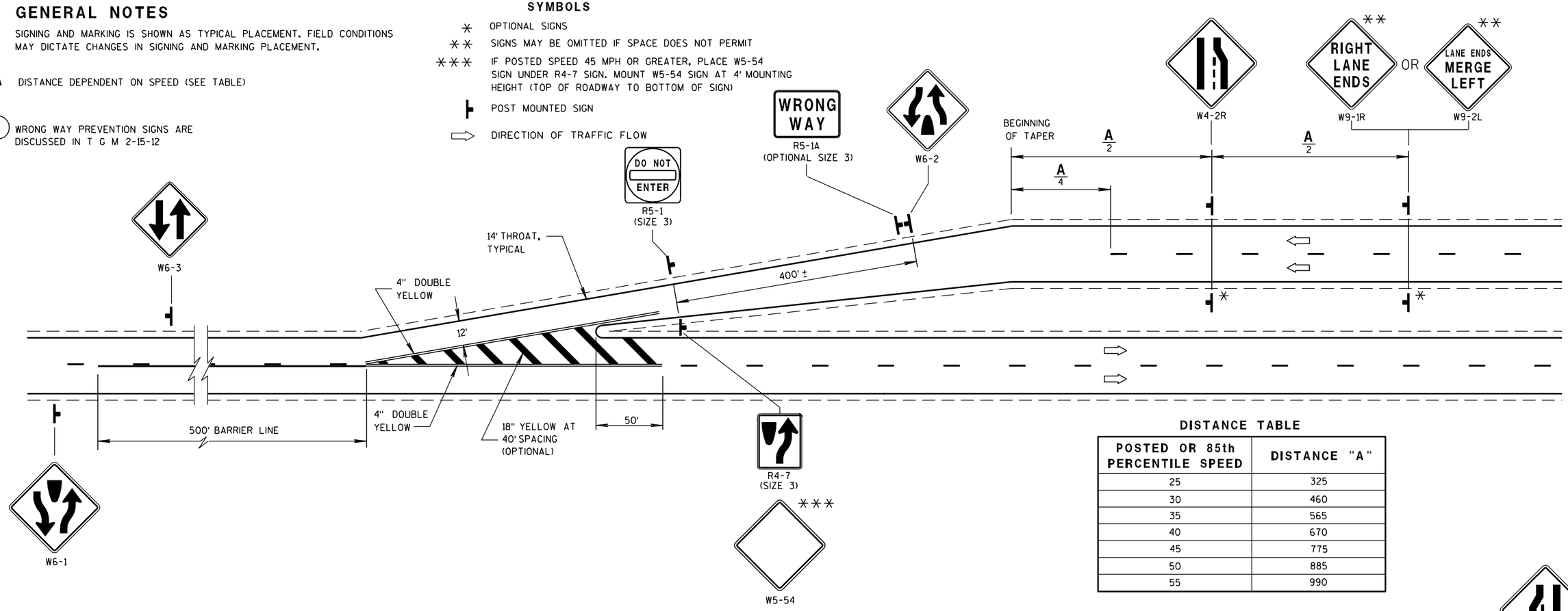
SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

(1) WRONG WAY PREVENTION SIGNS ARE DISCUSSED IN T G M 2-15-12

SYMBOLS

- ✳ OPTIONAL SIGNS
- ✳✳ SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT
- ✳✳✳ IF POSTED SPEED 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN)
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW



DISTANCE TABLE

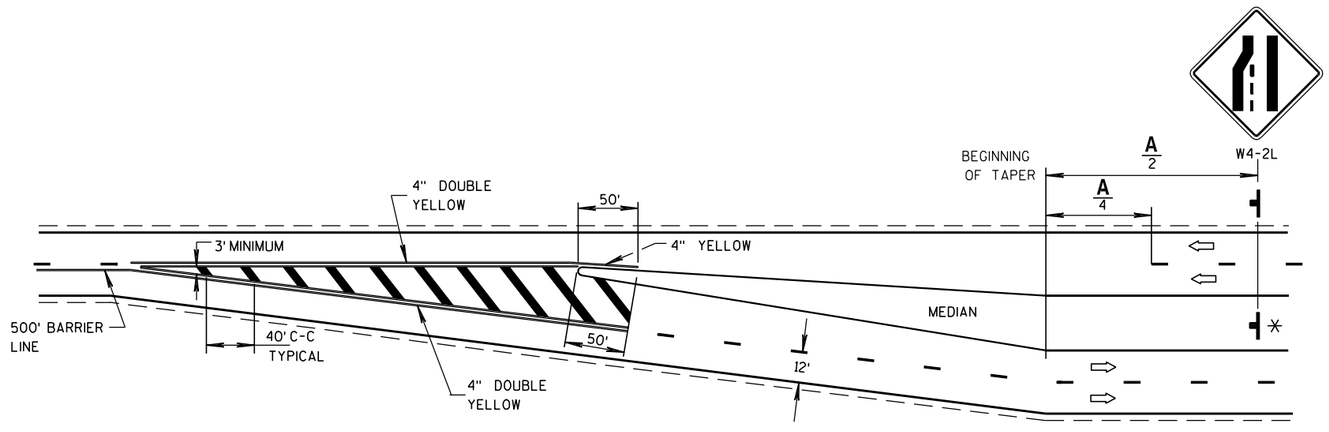
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	325
30	460
35	565
40	670
45	775
50	885
55	990

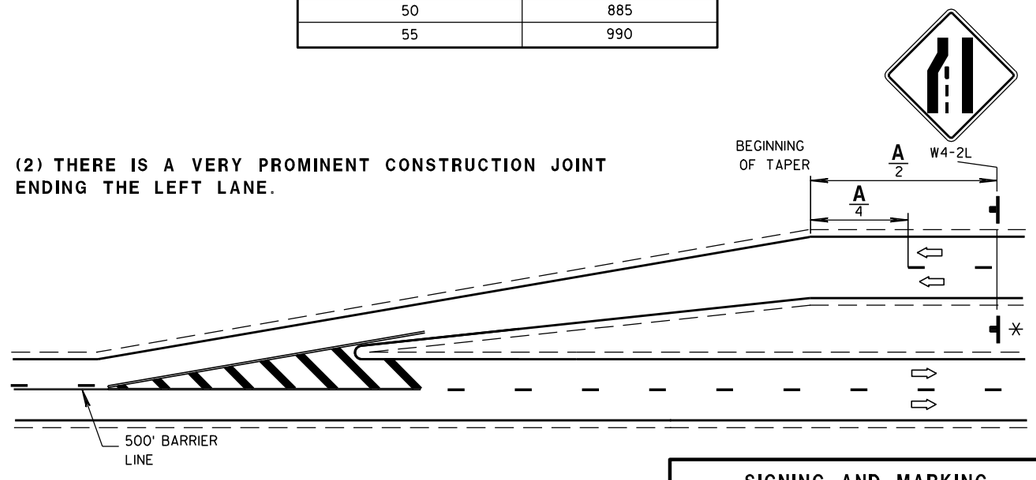
USE W4-2L IF :

(1) THE LEFT LANE IS PUSHED TO THE RIGHT:

OR

(2) THERE IS A VERY PROMINENT CONSTRUCTION JOINT ENDING THE LEFT LANE.





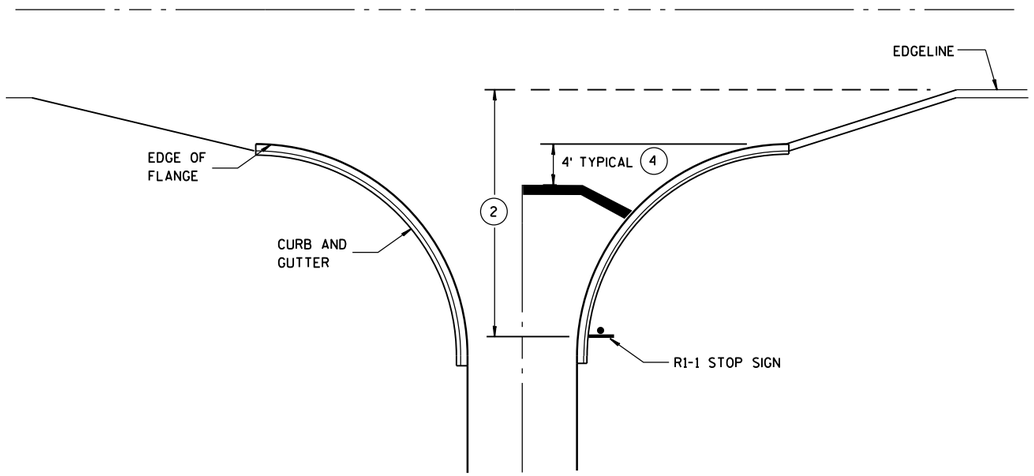
SIGNING AND MARKING
TWO LANE TO FOUR LANE
DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

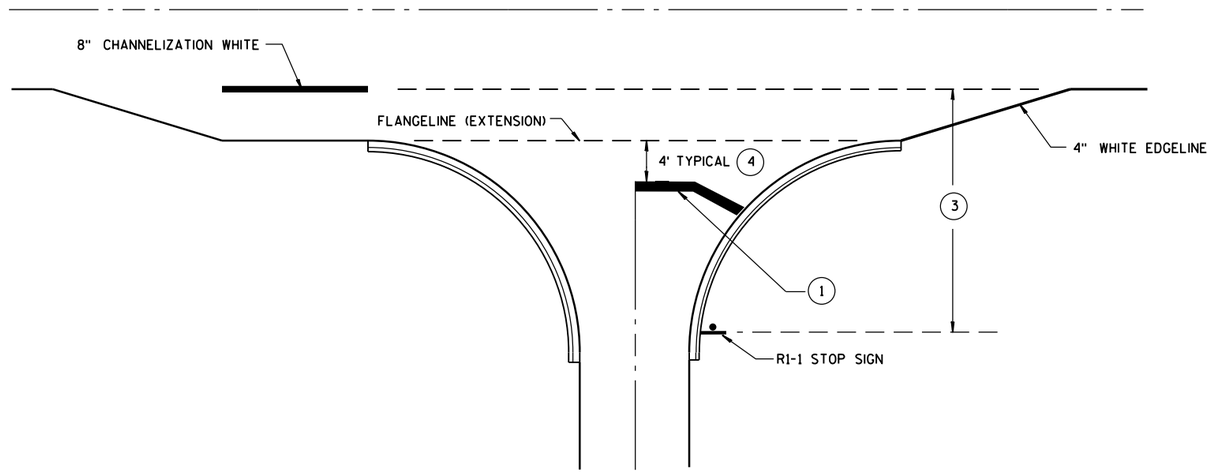
APPROVED
8/27/2011 — DATE
/S/ Thomas N. Notbohm — STATE TRAFFIC ENGINEER

FHWA

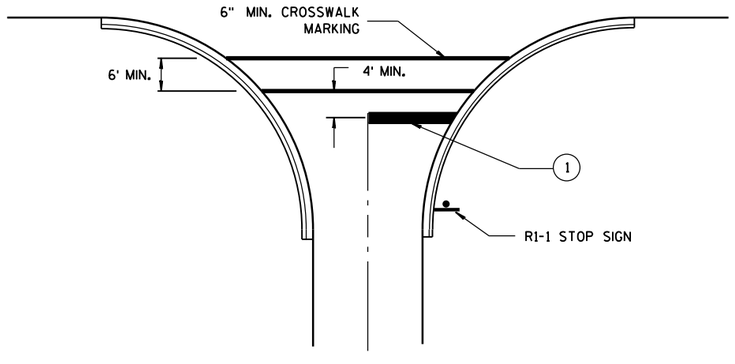
6
S.D.D. 15 C 21-4



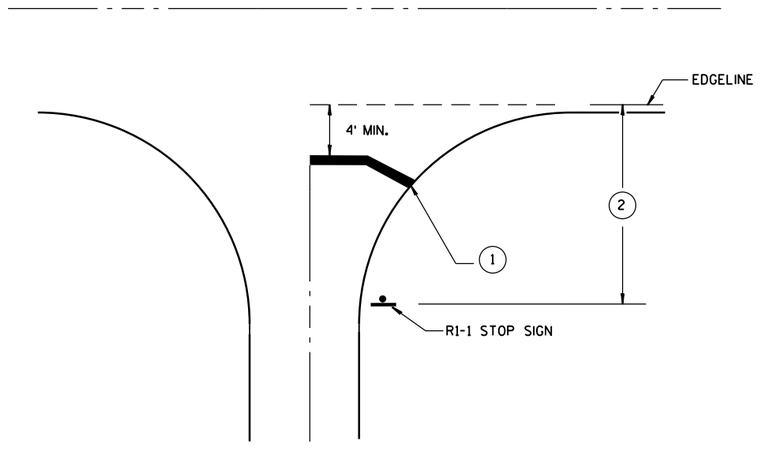
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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.

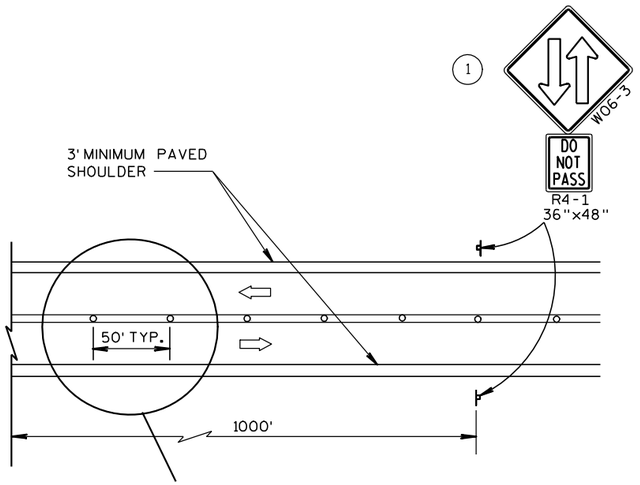
STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

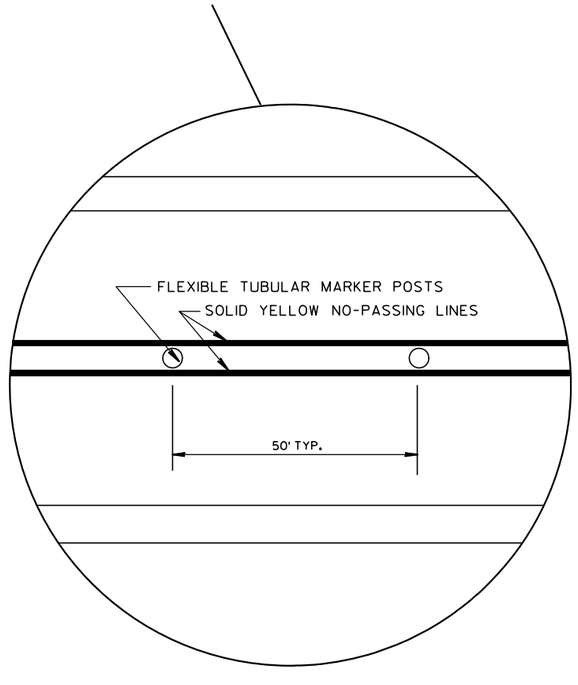
APPROVED
4/30/2013 DATE
/S/ Travis Feltes
STATE TRAFFIC E
FHWA

6

S.D.D. 15 C 33-1



TWO LANE, TWO WAY OPERATION



LEGEND

- POST WITH ATTACHED SIGN
- FLEXIBLE TUBULAR MARKER AND BASE
- DIRECTION OF TRAFFIC

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERS NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

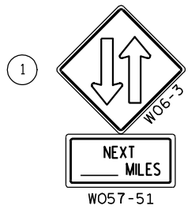
THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

A SINGLE ROW OF FLEXIBLE TUBULAR MARKERS ON CENTERLINE EXTEND FOR THE ENTIRE LENGTH OF TWO-WAY TRAFFIC @ 50' SPACING.

COVER EXISTING CENTERLINE STRIPE WITH TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW.

R2-1
48"x60"
(BLACK AND WHITE)

IF THE REGULATORY SPEED HAS BEEN REDUCED, A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD **BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY** 2 OR 3 MILES.



W057-51
48"x24"

R4-1
36"x48"

THE W06-3 WITH THE W057-51 SHALL BE LOCATED 200' BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP AND/OR 500' BEYOND ANY SIDEROAD. THE W06-3 WITH THE R4-1 SHALL BE LOCATED 1000' BEYOND THE W06-3 AND THE W057-51 AND THE SIGNS SHALL BE ALTERNATED WITH ONE MILE INTERVALS BETWEEN W06-3 SIGNS.

TRAFFIC CONTROL, TWO LANE TWO WAY OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12-4-95
DATE

/S/ Chester J. [illegible]
DIRECTOR, OFFICE OF 647

FHWA

6

S.D.D. 15 D 6-2

6

S.D.D. 15 D 6-2

GENERAL NOTES

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

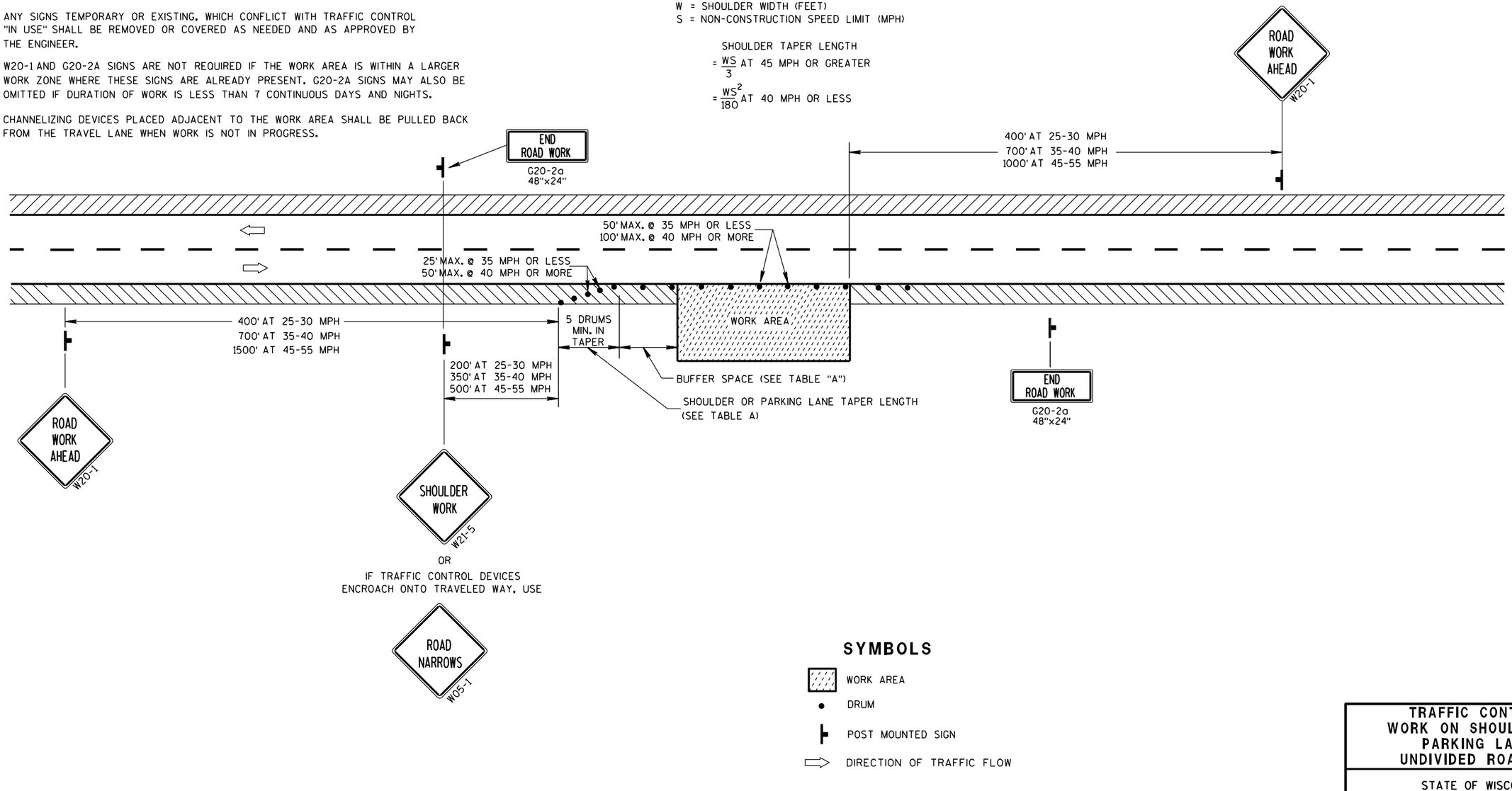
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
$= \frac{WS}{3}$ AT 45 MPH OR GREATER
$= \frac{WS^2}{180}$ AT 40 MPH OR LESS



SYMBOLS

- WORK AREA
- DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW

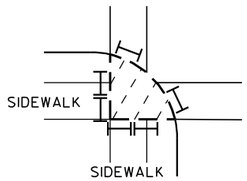
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

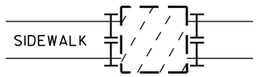
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

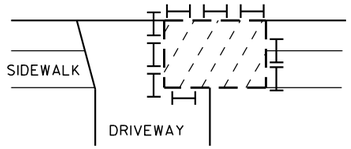
APPROVED
5/23/00 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible] ENGINEER
FHWA

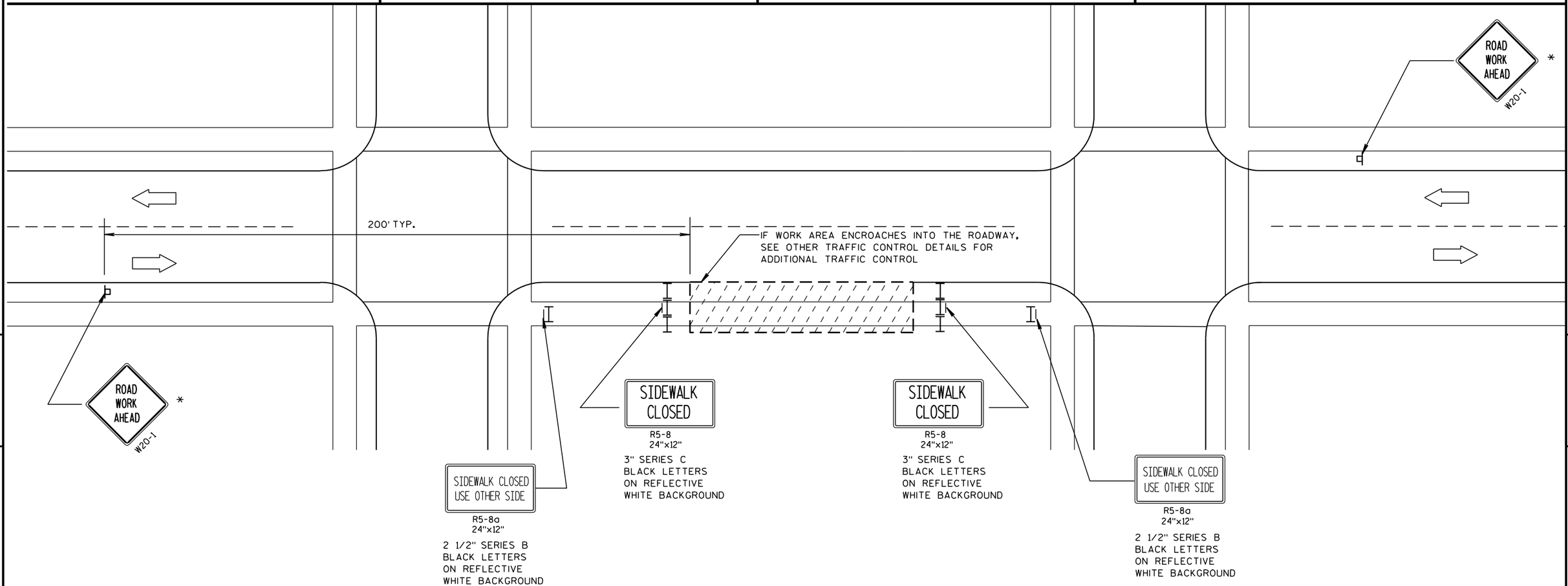
6
S.D.D. 15 D 28-1

WARNING OF LOCALIZED SIDEWALK WORK AREAS









LEGEND

- POST MOUNTED SIGN
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC FLOW

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

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

* "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL, SIDEWALK CLOSURE

TRAFFIC CONTROL, SIDEWALK CLOSURE

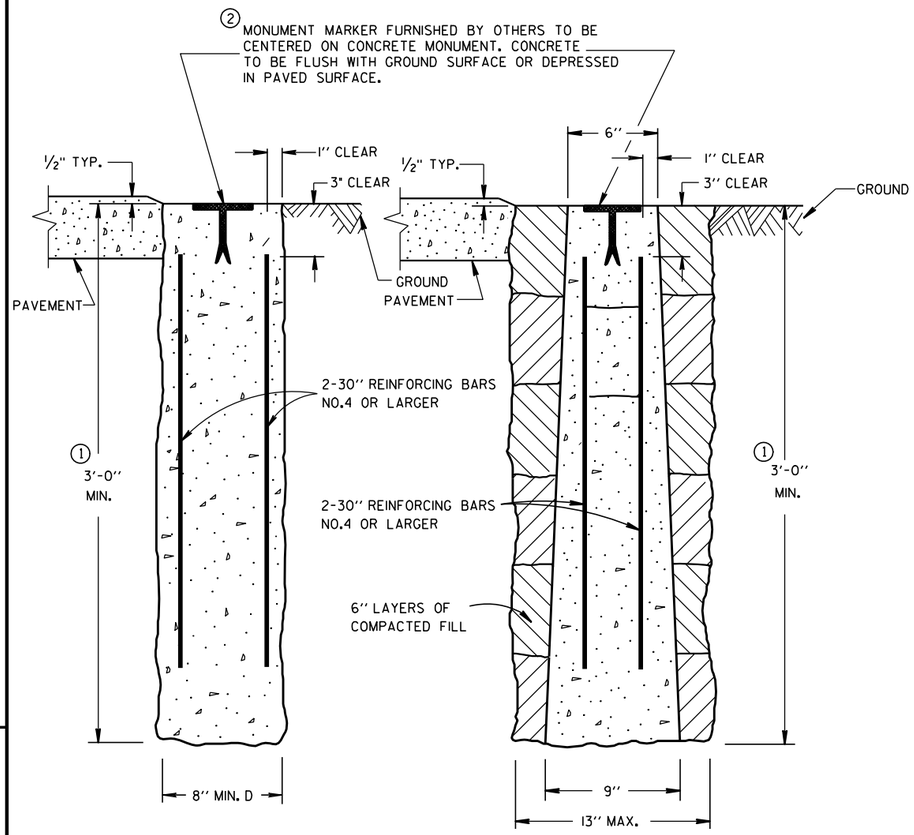
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2000 DATE
/S/ Chester J. [illegible]
CHIEF SIGNS AND MARK[illegible]NEER
FHWA

649

6

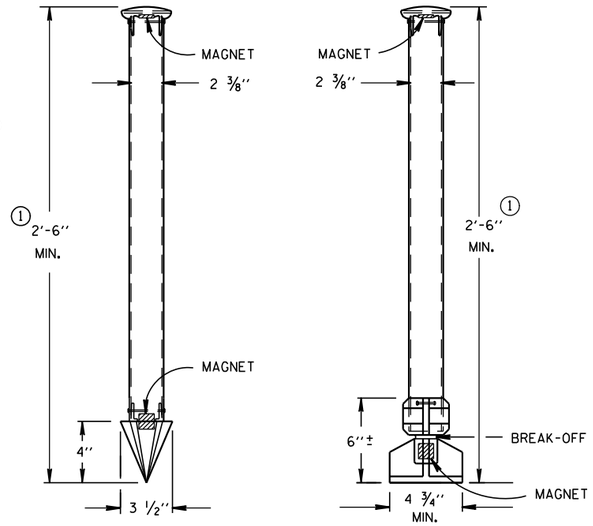
S.D.D. 15 D 30-1



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.

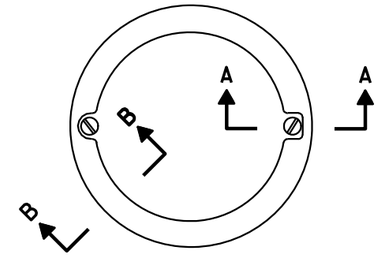
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

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.

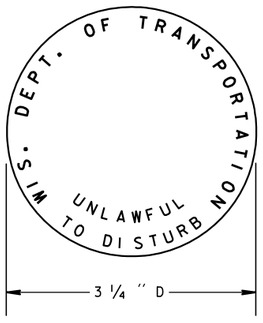
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

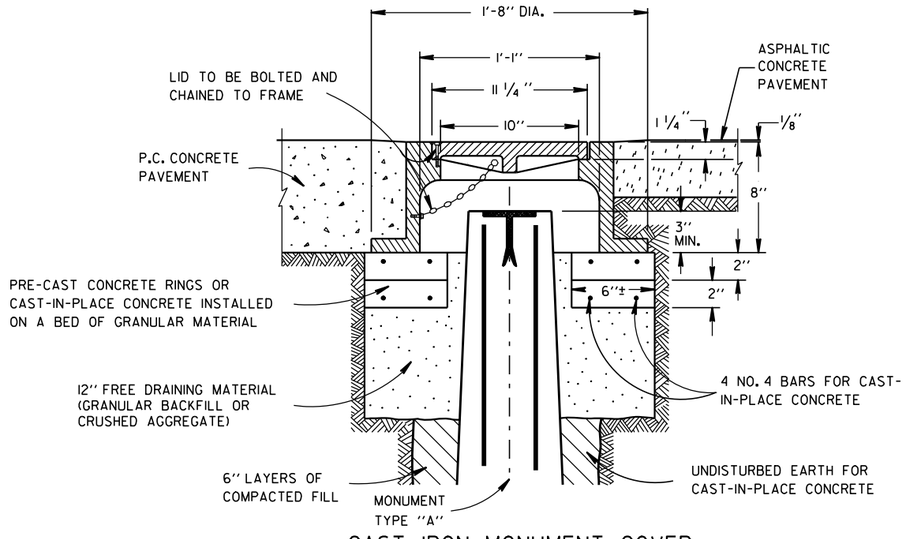
② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.



TOP VIEW

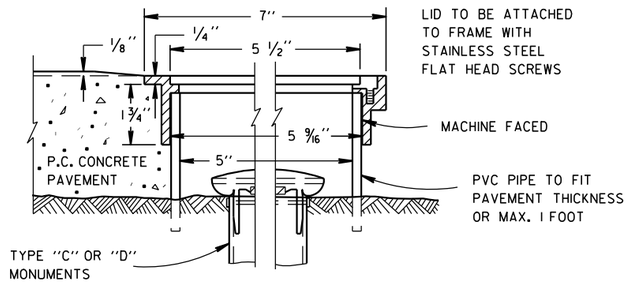


② WIS DOT MONUMENT MARKER LOGO FOR TYPES "A", "C" & "D"



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

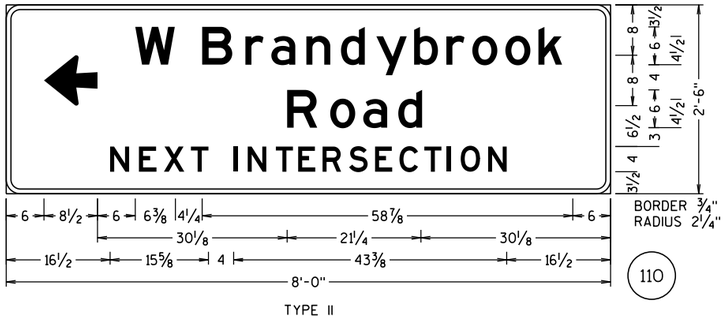
APPROVED
9/22/1999 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOP 650 NEER
FHWA

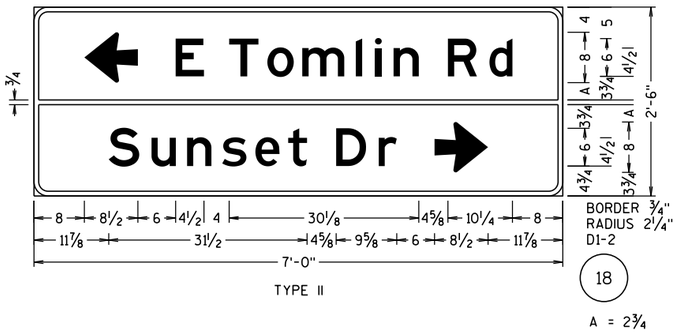
6

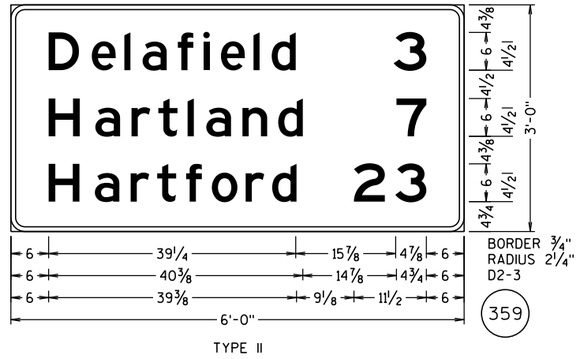
S.D.D. 16 A 1-6

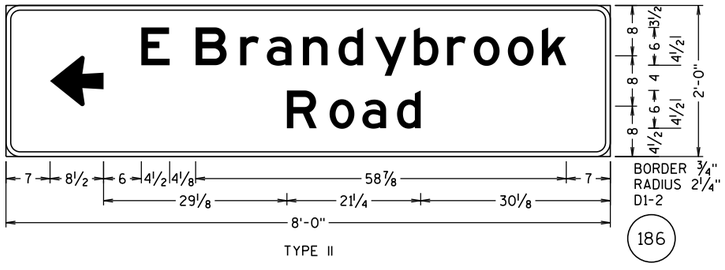
6

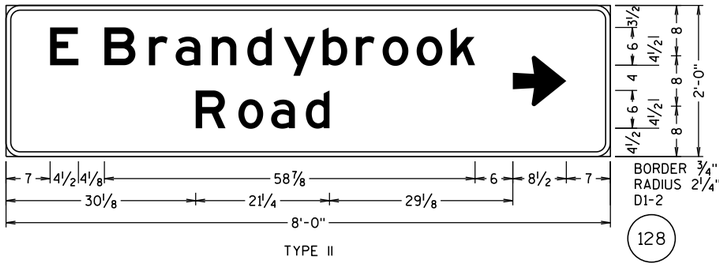
S.D.D. 16 A 1-6











GENERAL NOTES:

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

2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE I".

3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE TYPE SH REFLECTIVE SHEETING.

4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.

5. TYPE II SIGNS ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE "SERIES E.

6. TYPE I SIGNS - ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE SERIES "E" MODIFIED. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE SERIES "E" MODIFIED. ALL CAP WORDS ARE "SERIES E"

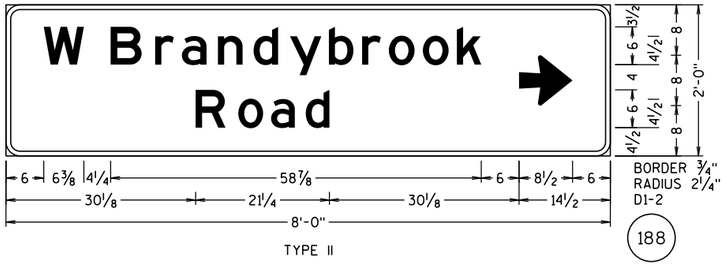
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.

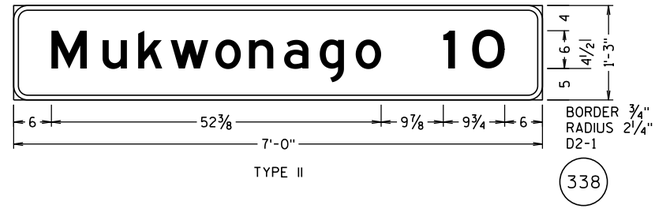
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.

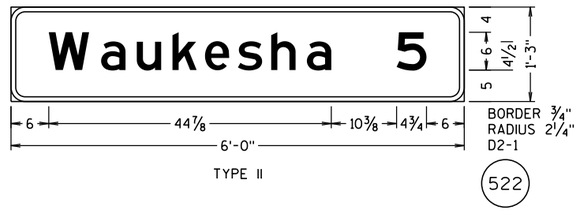
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.

10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE SERIES "E" PER PLATES A11-7 AND A11-10

11. DO NOT SCALE.

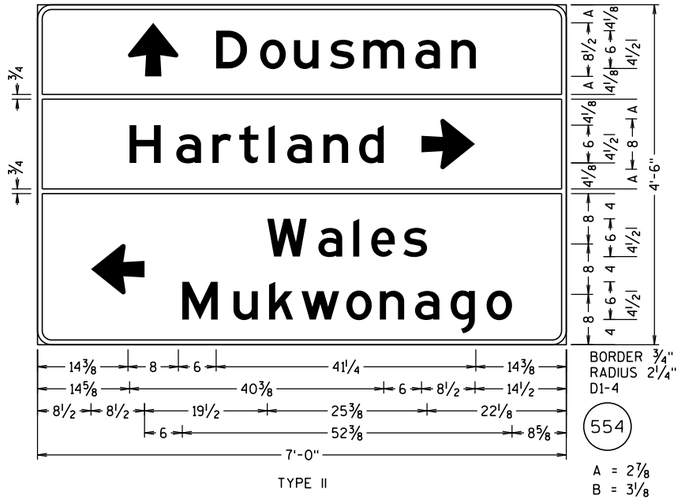


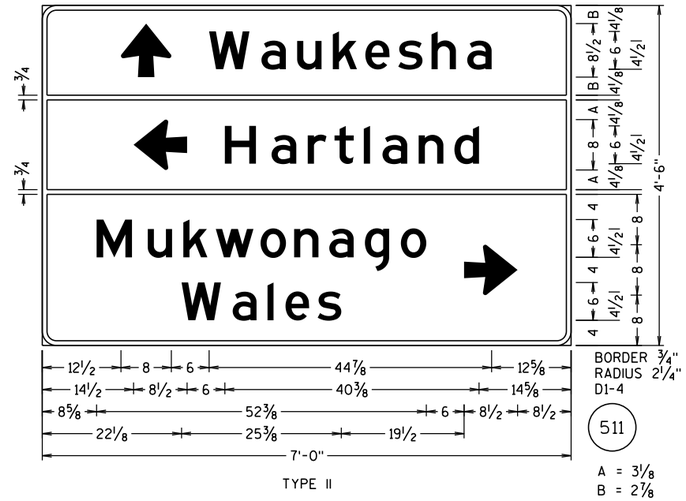




PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGNING DETAIL - TYPE I & II SIGNS	SCALE: 0 1/2" 1"	SHEET 651	E

FILE NAME : J:\projects\d2_13301883\Sign\070101_ms.dgn PLOT DATE : 12-JUL-2013 12:01 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 48.125:1
WISDOT/CADDS SHEET 47





GENERAL NOTES:

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

2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE I".

3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE TYPE SH REFLECTIVE SHEETING.

4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.

5. TYPE II SIGNS ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE "SERIES E.

6. TYPE I SIGNS - ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE SERIES "E" MODIFIED. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE SERIES "E" MODIFIED. ALL CAP WORDS ARE "SERIES E"

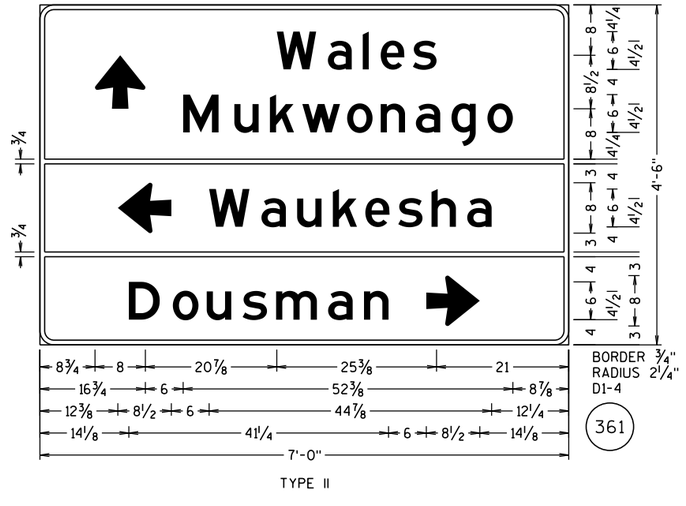
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.

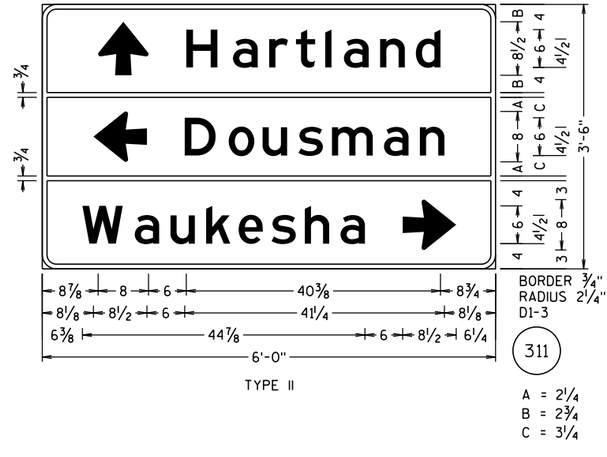
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.

9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.

10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE SERIES "E" PER PLATES A11-7 AND A11-10

11. DO NOT SCALE.





GENERAL NOTES:

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

2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE I".

3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE TYPE SH REFLECTIVE SHEETING.

4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.

5. TYPE II SIGNS ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE "SERIES E.

6. TYPE I SIGNS - ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE SERIES "E" MODIFIED. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE SERIES "E" MODIFIED. ALL CAP WORDS ARE "SERIES E"

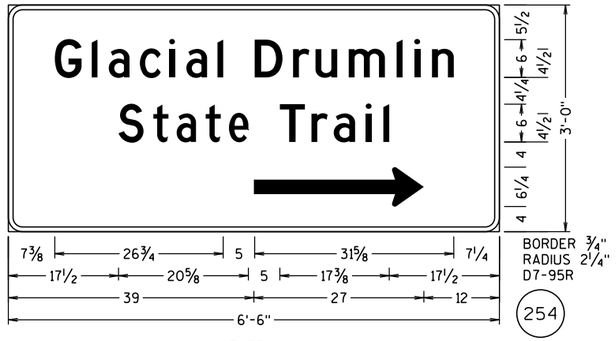
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.

8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.

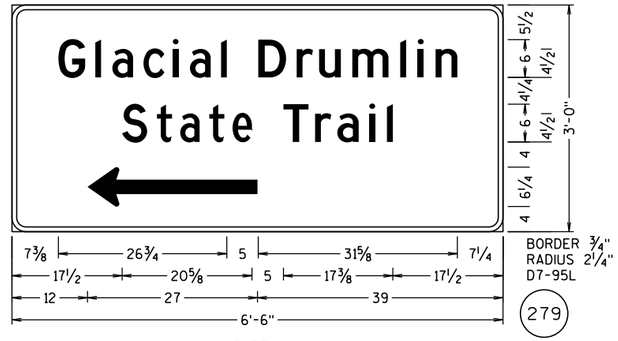
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.

10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE SERIES "E" PER PLATES A11-7 AND A11-10

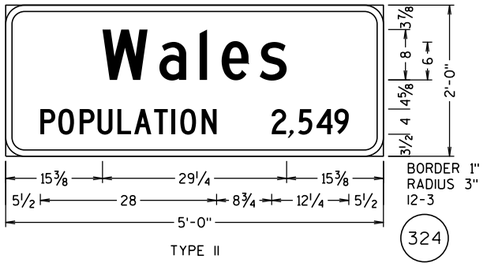
11. DO NOT SCALE.



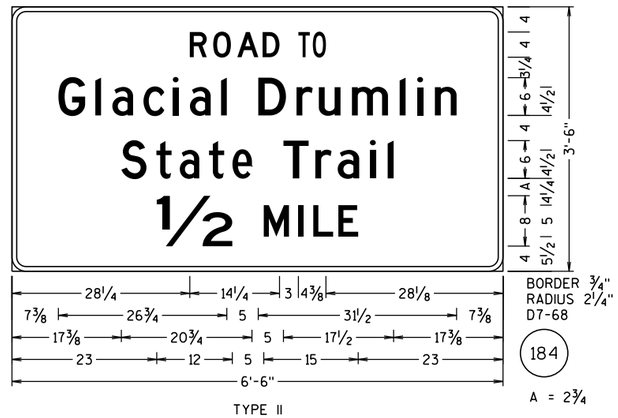
TYPE II
BROWN BACKGROUND
WHITE COPY



TYPE II
BROWN BACKGROUND
WHITE COPY



TYPE II



TYPE II
BROWN BACKGROUND
WHITE COPY

GENERAL NOTES:

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

2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE I".

3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE TYPE SH REFLECTIVE SHEETING.

4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.

5. TYPE II SIGNS ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE "SERIES E.

6. TYPE I SIGNS - ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE SERIES "E" MODIFIED. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE SERIES "E" MODIFIED. ALL CAP WORDS ARE "SERIES E"

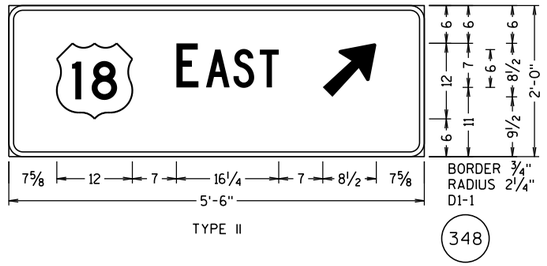
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.

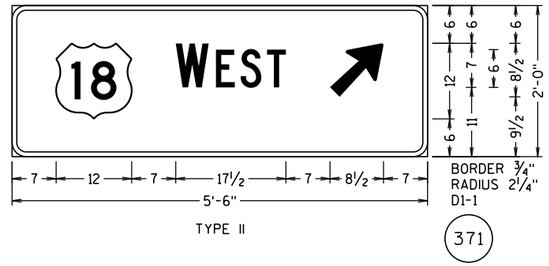
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.

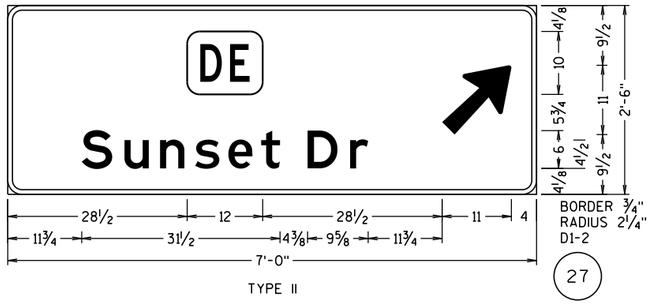
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.

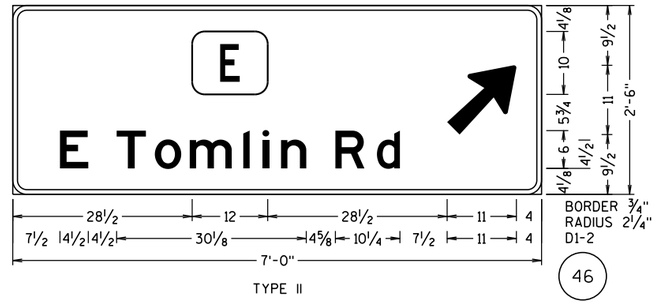
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE SERIES "E" PER PLATES A11-7 AND A11-10

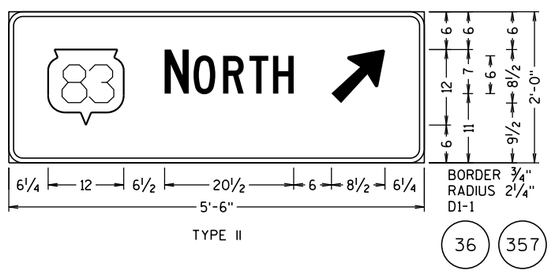
11. DO NOT SCALE.

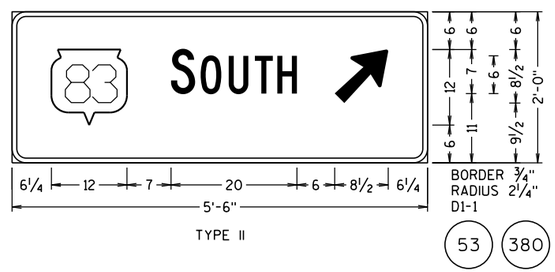


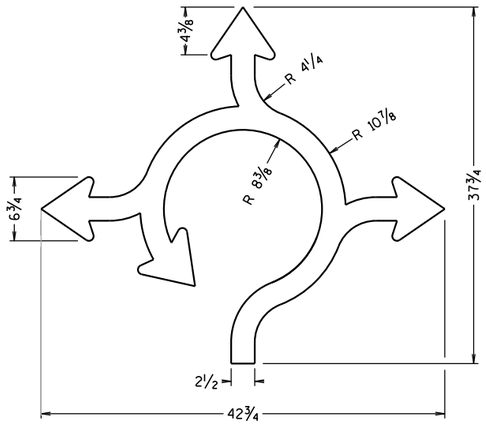


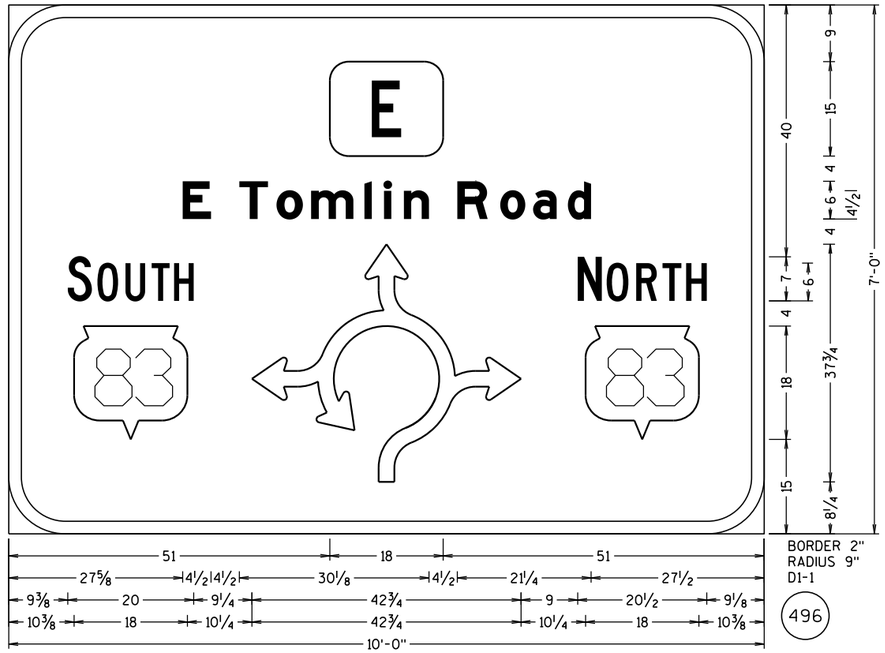








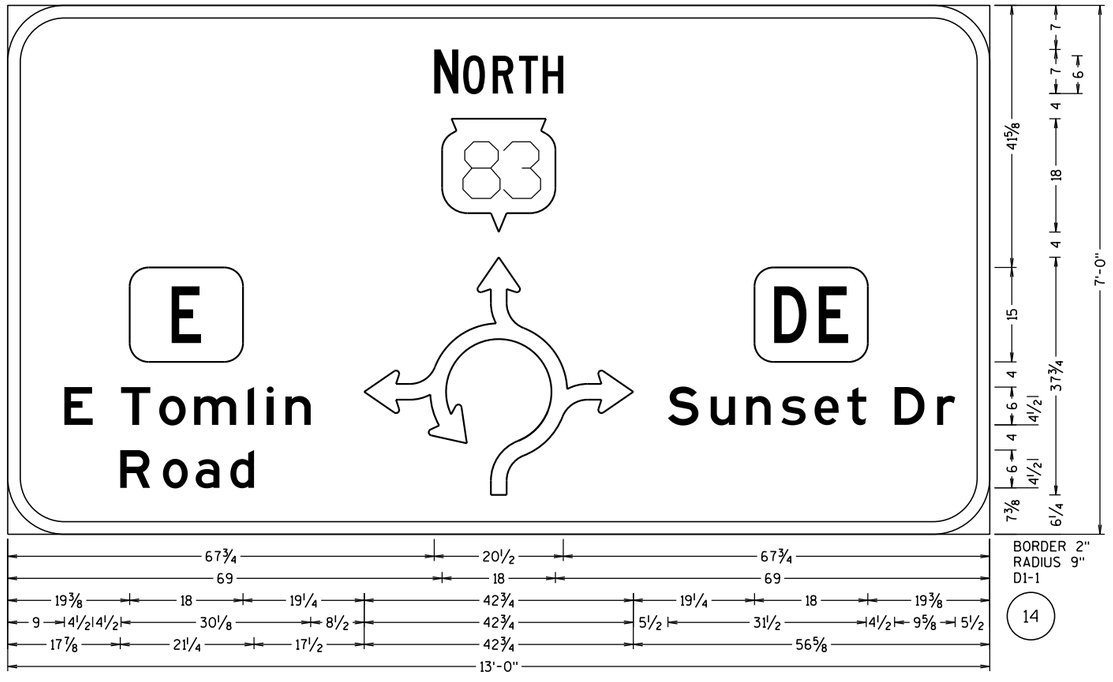




BORDER 2"
RADIUS 9"
D1-1

496

TYPE II



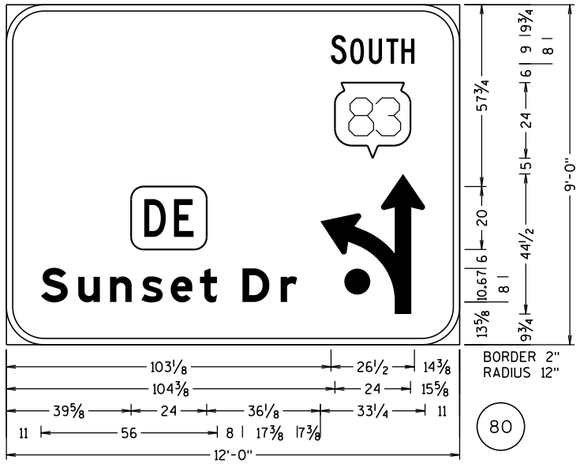
BORDER 2"
RADIUS 9"
D1-1

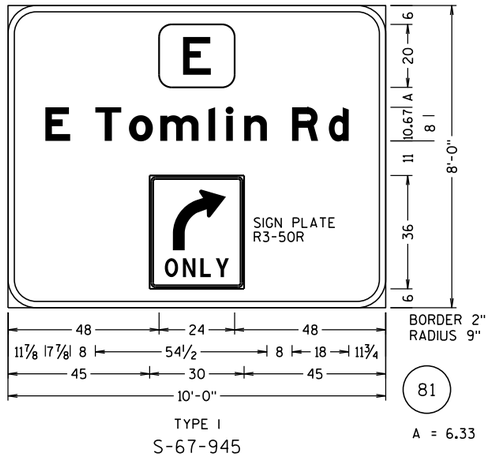
14

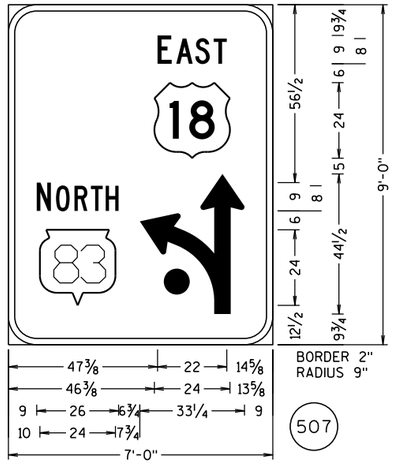
TYPE I

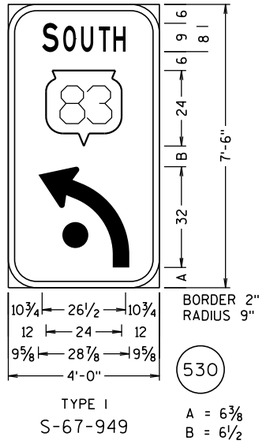
GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE I".
3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE TYPE SH REFLECTIVE SHEETING.
4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.
5. TYPE II SIGNS ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE "SERIES E.
6. TYPE I SIGNS - ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE SERIES "E" MODIFIED. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE SERIES "E" MODIFIED. ALL CAP WORDS ARE "SERIES E"
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE SERIES "E" PER PLATES A11-7 AND A11-10
11. DO NOT SCALE.



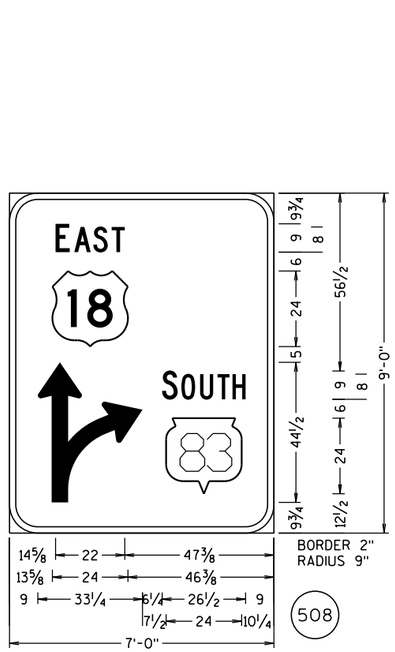


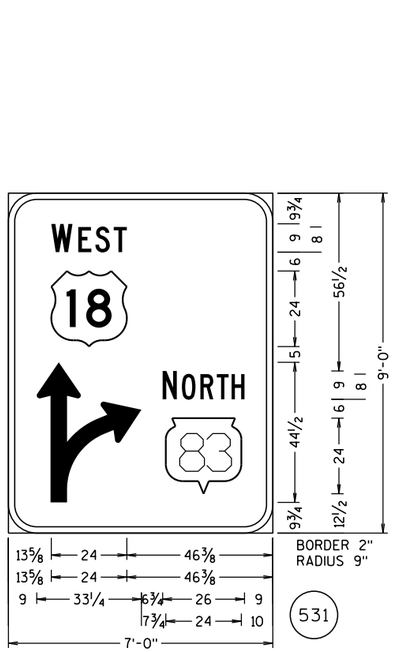


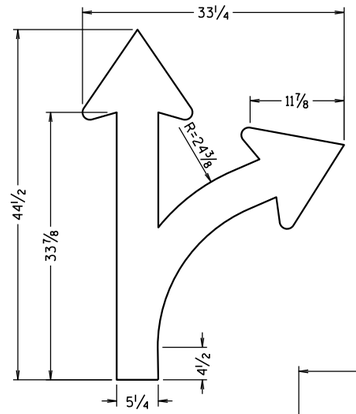


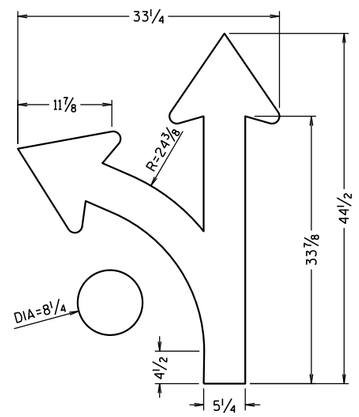
GENERAL NOTES:

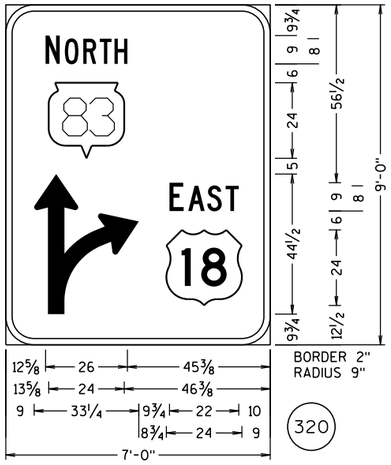
1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE I".
3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE TYPE SH REFLECTIVE SHEETING.
4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.
5. TYPE II SIGNS ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE "SERIES E.
6. TYPE I SIGNS - ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE SERIES "E" MODIFIED. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE SERIES "E" MODIFIED. ALL CAP WORDS ARE "SERIES E"
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.
8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.
9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.
10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE SERIES "E" PER PLATES A11-7 AND A11-10
11. DO NOT SCALE.



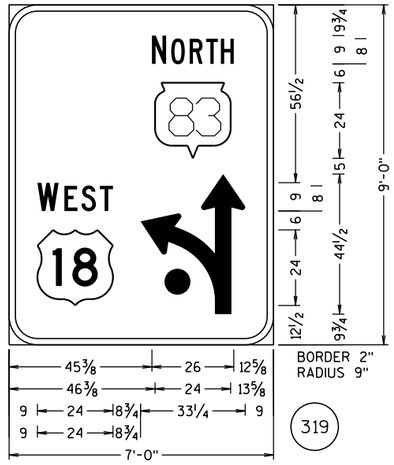




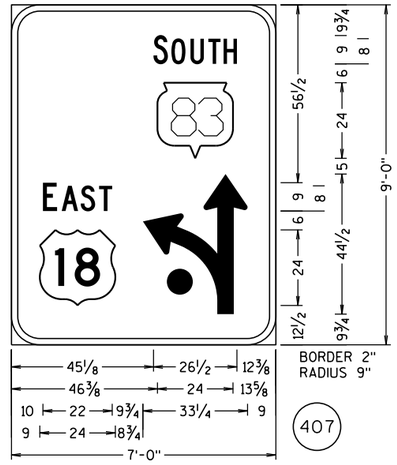




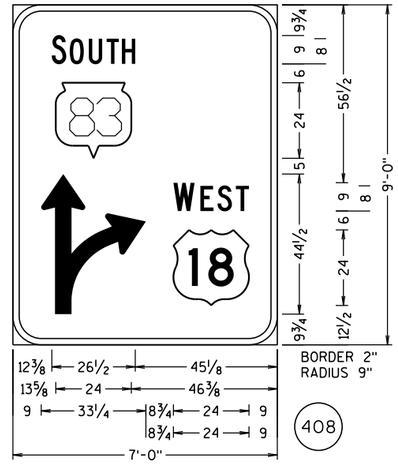
TYPE I
S-67-946



TYPE I
S-67-946



TYPE I
S-67-948



TYPE I
S-67-948

GENERAL NOTES:

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

2. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET ARE "SIGNS, TYPE I".

3. UNLESS OTHERWISE NOTED, TYPE II SIGNS ON THIS SHEET SHALL HAVE "TYPE H REFLECTIVE SHEETING" AND, "TYPE H MESSAGE MATERIAL". TYPE I SIGNS SHALL HAVE TYPE SH REFLECTIVE SHEETING.

4. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE A GREEN BACKGROUND AND WHITE MESSAGE.

5. TYPE II SIGNS ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE "SERIES E. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE "SERIES E.

6. TYPE I SIGNS - ALL UPPER CASE MESSAGE (EXCEPT ON SHIELDS OR WHERE OTHERWISE NOTED) SHALL BE SERIES "E" MODIFIED. ALL LOWER CASE MESSAGE WITH AN INITIAL UPPER CASE LETTER SHALL BE SERIES "E" MODIFIED. ALL CAP WORDS ARE "SERIES E"

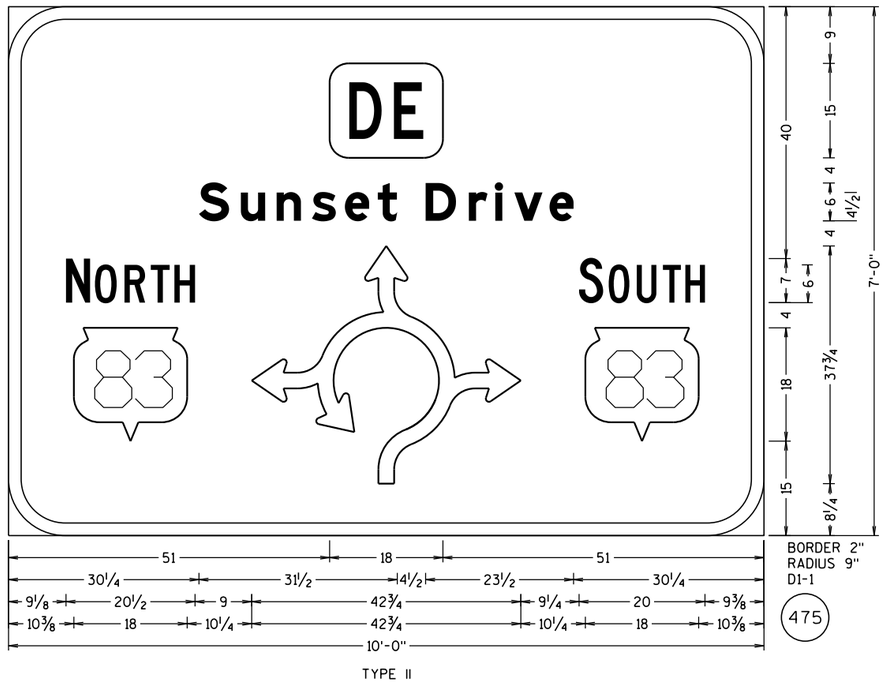
7. UNLESS OTHERWISE NOTED, ALL SIGNS SHOWN ON THIS SHEET SHALL HAVE "TYPE A" OR "TYPE C" ARROWS AS SHOWN. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS.

8. SEE THE STANDARD SIGN PLATES FOR FURTHER DETAILS ON ROUTE MARKER SHIELDS.

9. THE SIGN NUMBER IS DENOTED IN THE CIRCLE NEAR EACH DETAIL.

10. NUMBER FRACTIONS FOR INTERCHANGE SEQUENCE SIGNS SHALL BE SERIES "E" PER PLATES A11-7 AND A11-10

11. DO NOT SCALE.



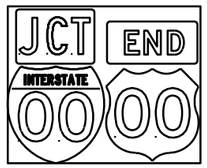
TYPE II

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	SIGNING DETAIL - TYPE I & II SIGNS	SCALE: 0 ½" 1"	SHEET 657 E

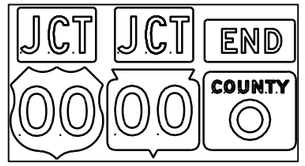
FILE NAME : J:\projects\d2_13301883\Sign\070101_ms.dgn PLOT DATE : 12-JUL-2013 12:01 PLOT BY : MSCMWB PLOT NAME : PLOT SCALE : 48.125:1
WISDOT/CADDS SHEET 47

TYPICAL ASSEMBLIES

J1-1

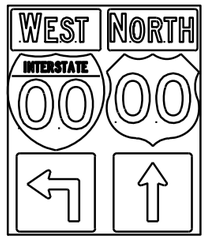


J1-2

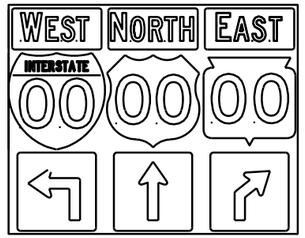


J1-3

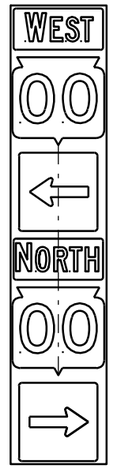
J2-1



J2-2

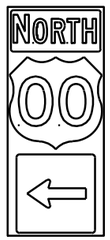


J2-3

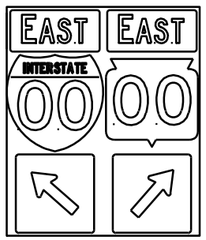


JV

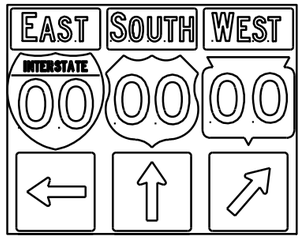
(Typical Vertical J-Assembly
See Note 10 and 11)



J3-1

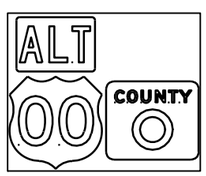


J3-2

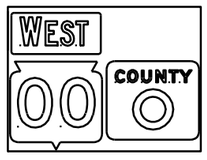


J3-3

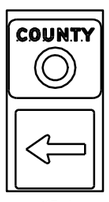
J4-1



J4-2



J4-2



J13-1

J12-1

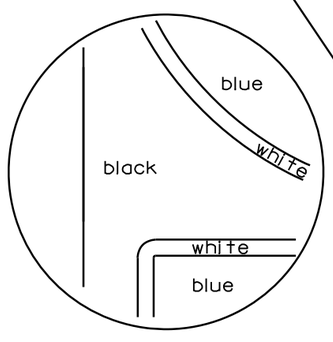
J32-1

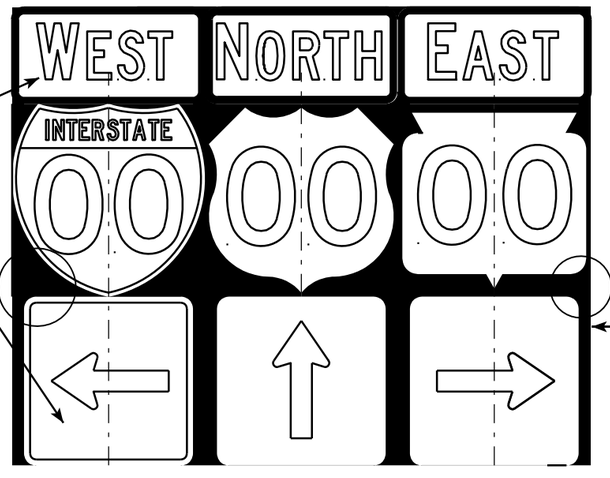
J33-1

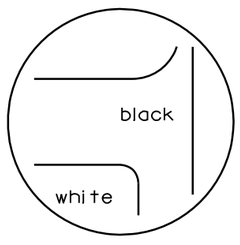
J23-1

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 3/25/13 PLATE NO. A2-1S.7

7

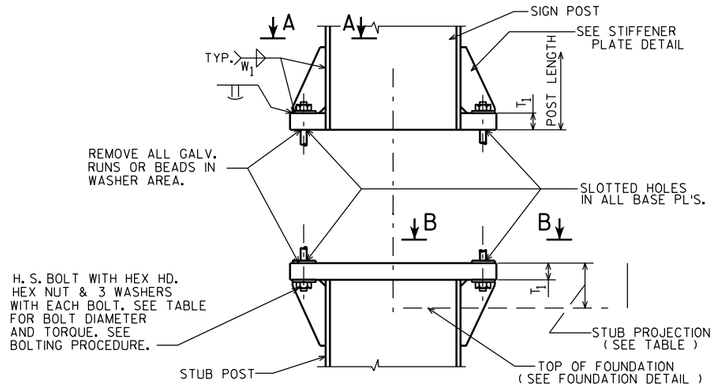
7

PROJECT NO:

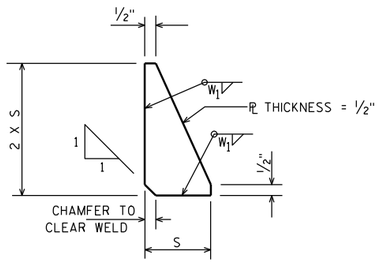
SHEET NO: 658 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 25-MAR-2013 11:33 PLOT BY : mscsja PLOT NAME :

WISDOT/CADDS SHEET 42

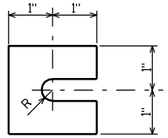


SIGN POST AND STUB POST ELEVATION



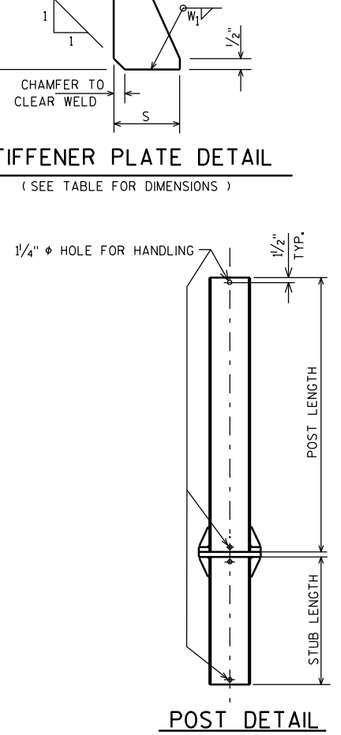
STIFFENER PLATE DETAIL

(SEE TABLE FOR DIMENSIONS)



FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M.- B36.

SHIM DETAIL



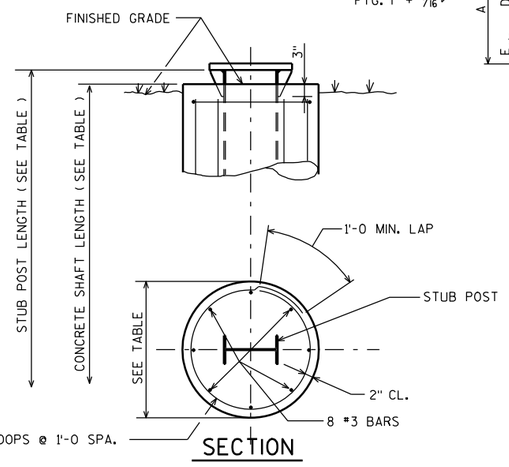
POST DETAIL

	QUANTITIES FOR 1 FOOTING	
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
E	1.0	62

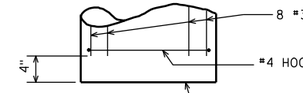
⑦

REINF.	TYPE	#3	#4
	A	8 @ 4'-5	5 @ 6'-3
	B	8 @ 6'-5	7 @ 6'-3
	C	8 @ 6'-11	7 @ 6'-3
	D	8 @ 7'-5	8 @ 6'-3
	E	8 @ 7'-11	9 @ 6'-3

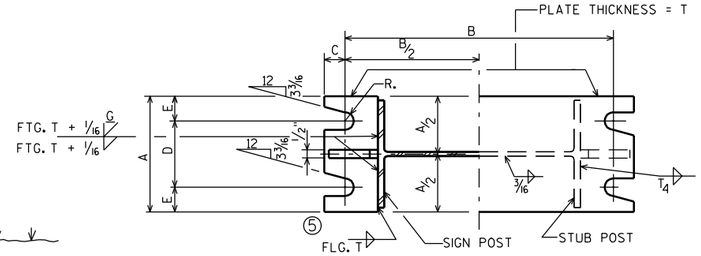
⑦



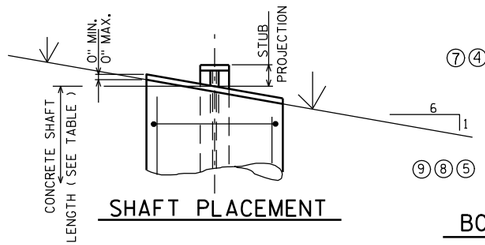
SECTION



FOUNDATION DETAIL



SECTION A-A SECTION B-B



⑦④

⑨⑧⑤

SHAFT PLACEMENT

DESIGN DATA

WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.

GROUP LOADS	PERCENT OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD & WIND	140
3. DEAD, ICE & 1/2 WIND△	140 △25 P.S.F. MIN.

ALLOWABLE SOIL PRESSURE = 1½T / SQ. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

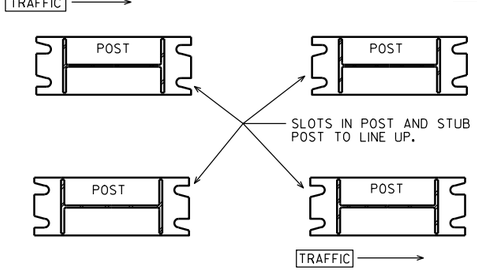
GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50.
⑨ THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
H.S. BOLTS, WASHERS & NUTS SHALL BE A325 GALVANIZED WHEN POSTS, POST STUBS AND ATTACHMENTS ARE A709 GRADE 50 AND GALVANIZED.

BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
2. SHIM AS REQ'D. TO PLUMB POST.
3. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
4. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.



POST SLOT ORIENTATION ⑦

		BASE CONNECTION DATA TABLE											FOUNDATION DATA				②
	TYPE	DIMENSION / POST SIZE	BOLT SIZE & TORQUE	A	B	C	D	E	T_1	T_4	W_1	R	S	STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	K
④	A	W10"X12.0 #/FT.	3/4" Φ @ 75#-FT.	5 1/4"	1'-0 3/8	7/8"	3 1/2"	7/8"	1"	3/16"	5/16"	13/32 "	2 1/8"	3'-6	3"	2'-0 Φ	5'-0	76.0# ④
④	B	W12"X16.0 #/FT.	7/8" Φ @ 85#-FT.	5 1/2"	1'-4 1/4	1"	3 1/2"	1"	1 1/4"	1/4"	5/16"	15/32 "	3"	5'-6	3"	2'-0 Φ	7'-0	146.5# ④
	C	W12"X19.0 #/FT.	7/8" Φ @ 85#-FT.	5 1/2"	1'-4 1/4	1"	3 1/2"	1"	1 1/2"	5/16"	5/16"	15/32 "	3"	6'-0	3"	2'-0 Φ	7'-6	182.1#
	D	W12"X22.0 #/FT.	7/8" Φ @ 85#-FT.	5 1/2"	1'-4 1/4	1"	3 1/2"	1"	1 1/2"	3/8"	5/16"	15/32 "	3"	6'-6	3"	2'-0 Φ	8'-0	210.5#
③	E	W12"X26.0 #/FT.	1" Φ @ 90#-FT.	7"	1'-4 1/4	1 1/4"	4"	1 1/2"	1 1/2"	3/8"	5/16"	17/32 "	3"	7'-0	3"	2'-0 Φ	8'-6	293.0# ③

① ⑥ ①

STRUCTURAL CARBON STEEL PAY WTS. (1 POST) = K+ (POST LENGTH X POST WT.)
" K " INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer
DATE 4/26/11 PLATE NO. A3-1.13

NO.	DATE	REVISION
⑨	4-26-11	REMOVE NON-GALVANIZED
⑧	10-30-96	NOT GALVANIZED/GALVANIZED
⑦	10-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
⑥	8-24-87	BASE CONN. WELD
⑤	10-13-81	BASE CONN. WELD & FUSE PL WASHERS
④	10-19-79	POST A & B, A572 GR. 50, & K
②	11-28-78	"K" ③4-23-79 TYPE "E"
①	5-4-78	T_1 , T_2 & W_1

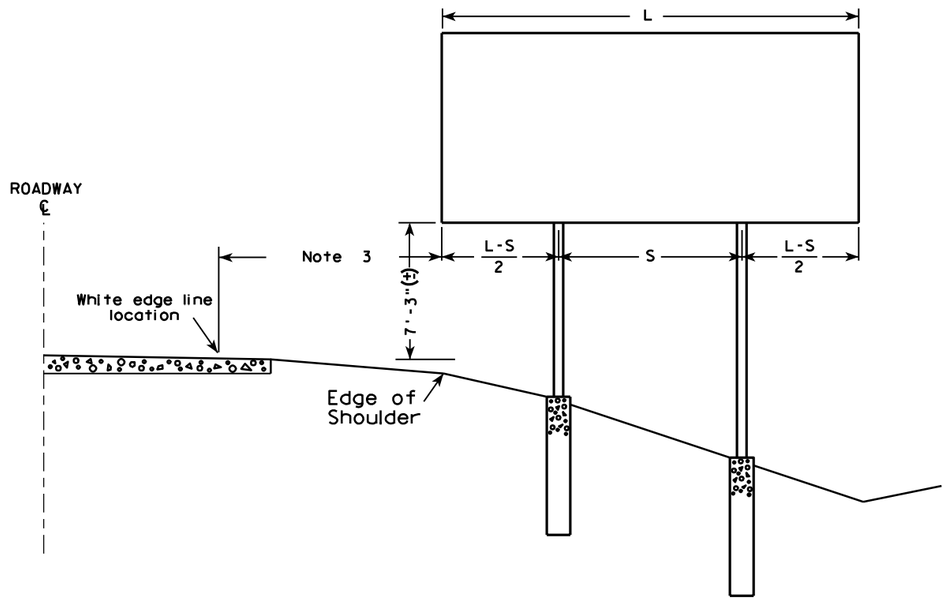
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

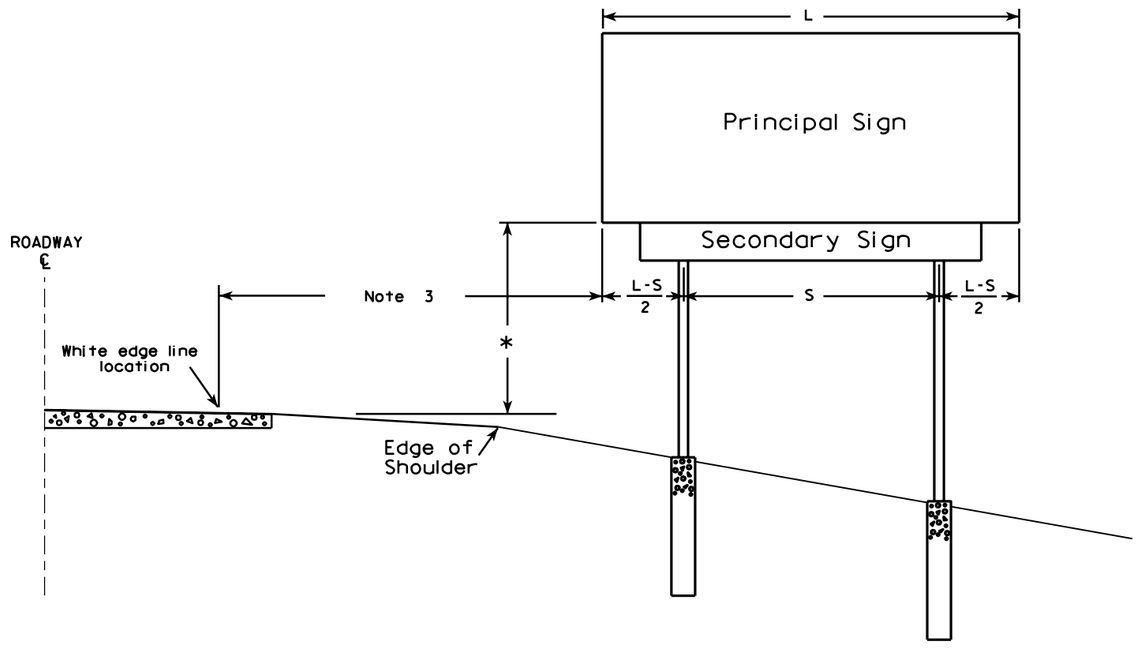
TYPE A, B, C, D, & E

CONST. SPEC. 2011 | DRAWN BY JPH | PLANS CK'D.

FTG. & SIGN SUPPORT DETAILS GROUND MOUNT BREAK-AWAY SIGNS | SHEET

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 659 | E





GENERAL NOTES

1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
4. The (±) tolerance shown on this sheet is 3 in.
5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.

* Clearance is 8'-3"(±) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3"(±).

7

7

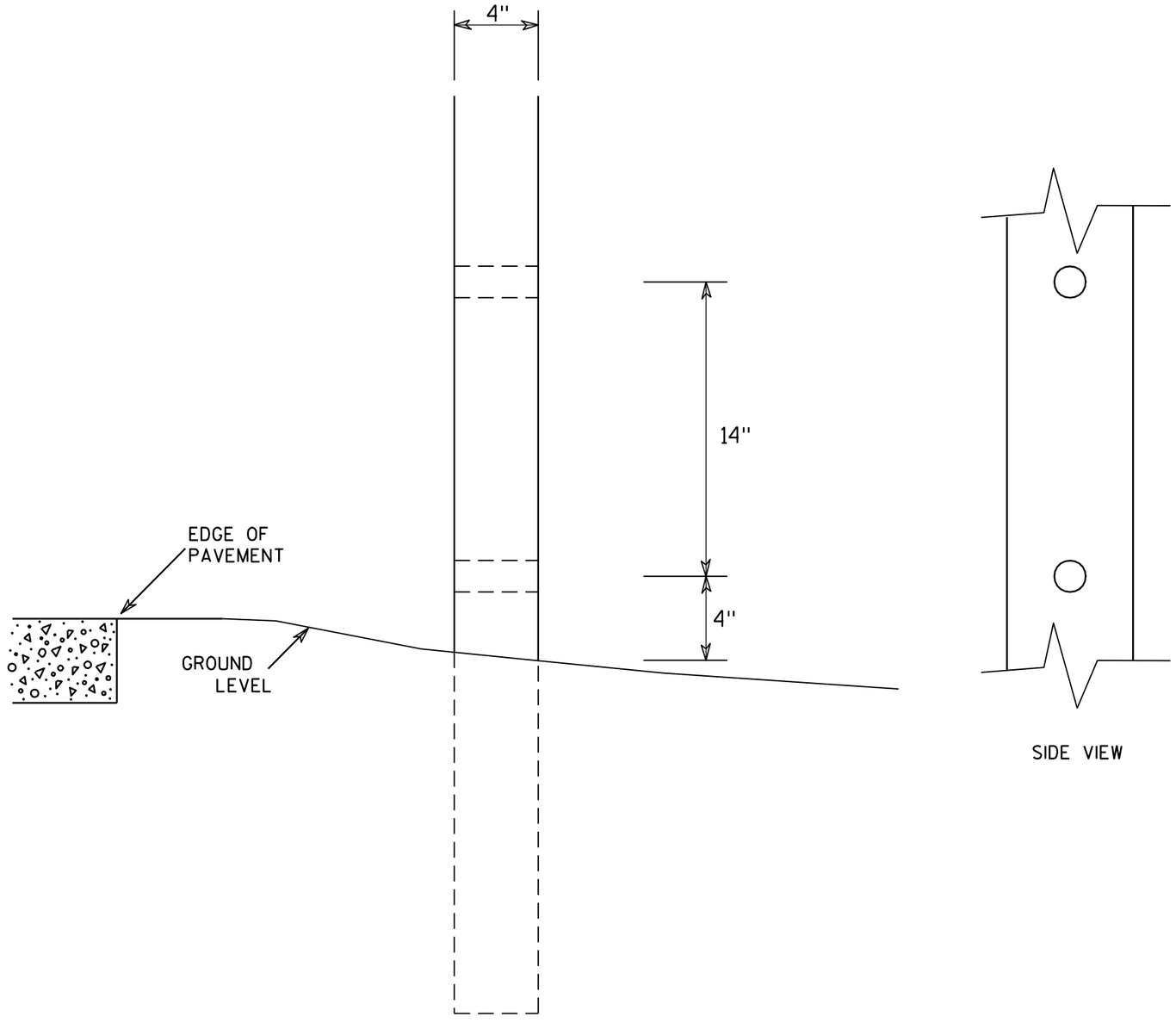
TYPICAL INSTALLATION
OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/02/08 PLATE NO. A4-1.9

PROJECT NO:				SHEET NO: 660	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

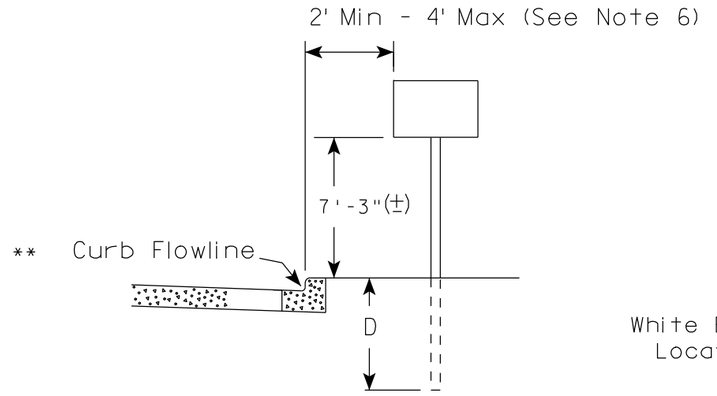
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

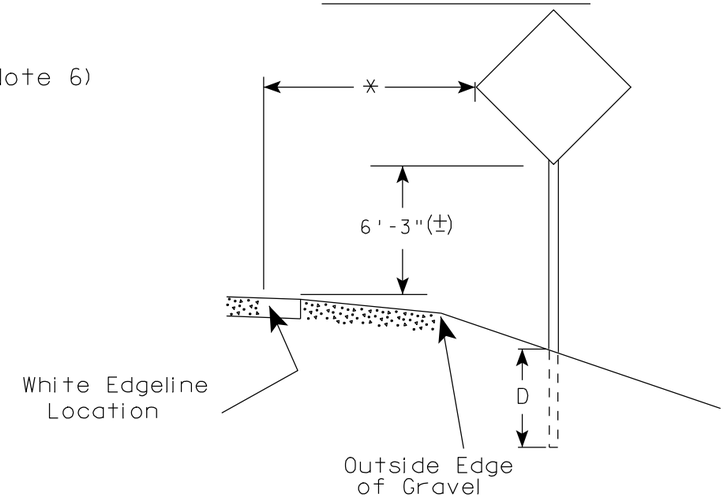
DATE 3/27/97 PLATE NO. A4-11.2

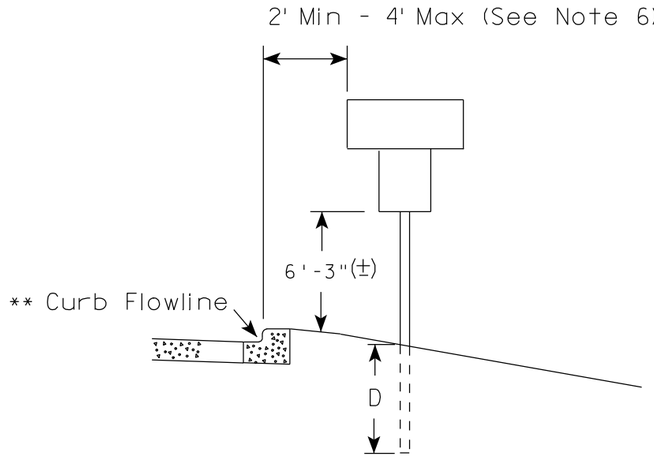
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 661	E

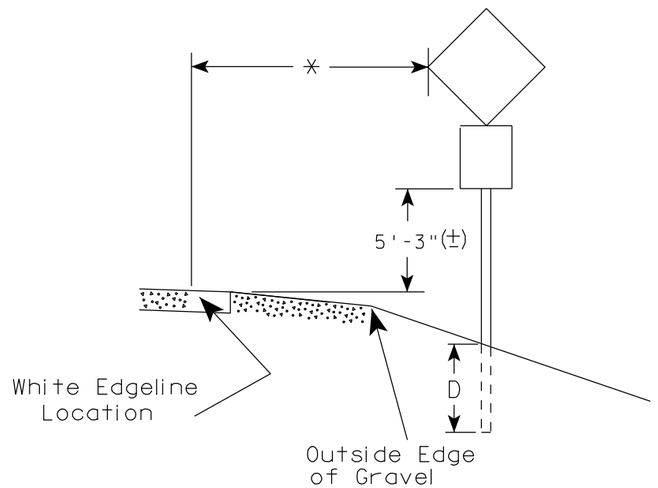
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** 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.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

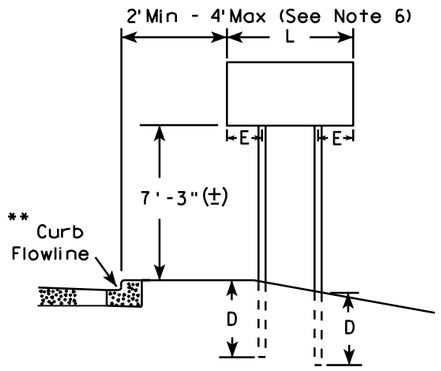
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

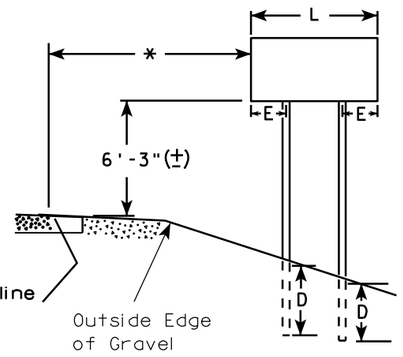
DATE 5/24/2013 PLATE NO. A4-3.17

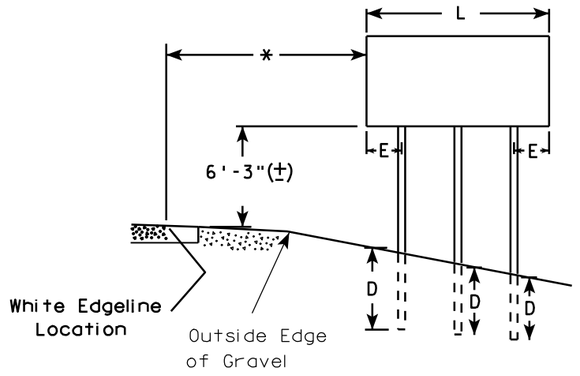
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 662	E

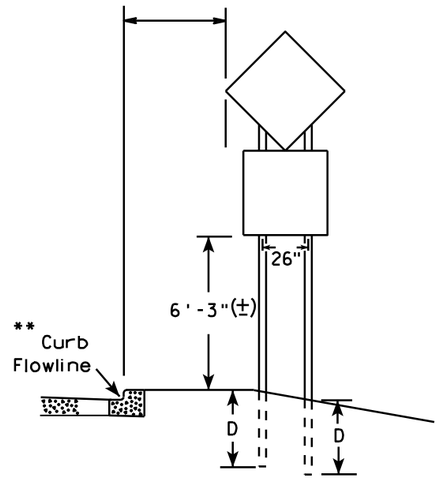
URBAN AREA



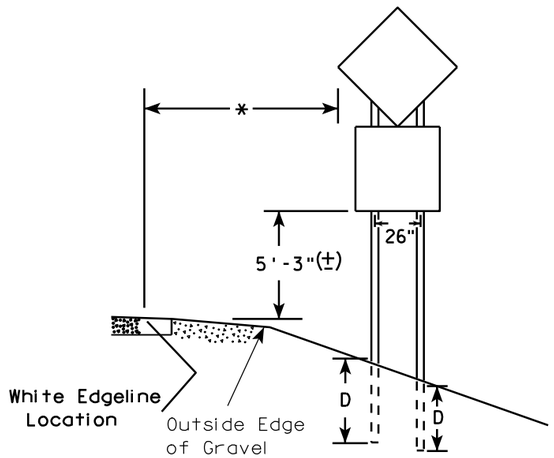
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. For multiple post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

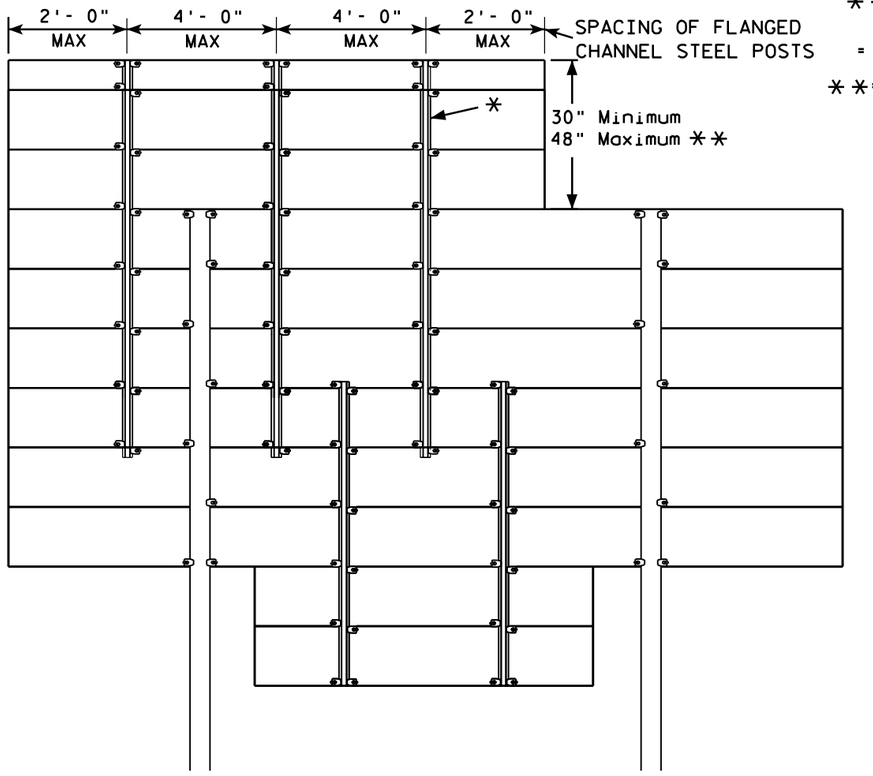
DATE 9/21/2011 PLATE NO. A4-4.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 663	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A44.DGN PLOT DATE : 21-SEP-2011 13:36 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 109.249131:1.000000

WISDOT/CADDS SHEET 42

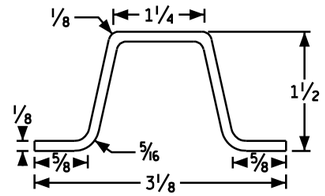
GROUND MOUNTED SIGN



*=2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

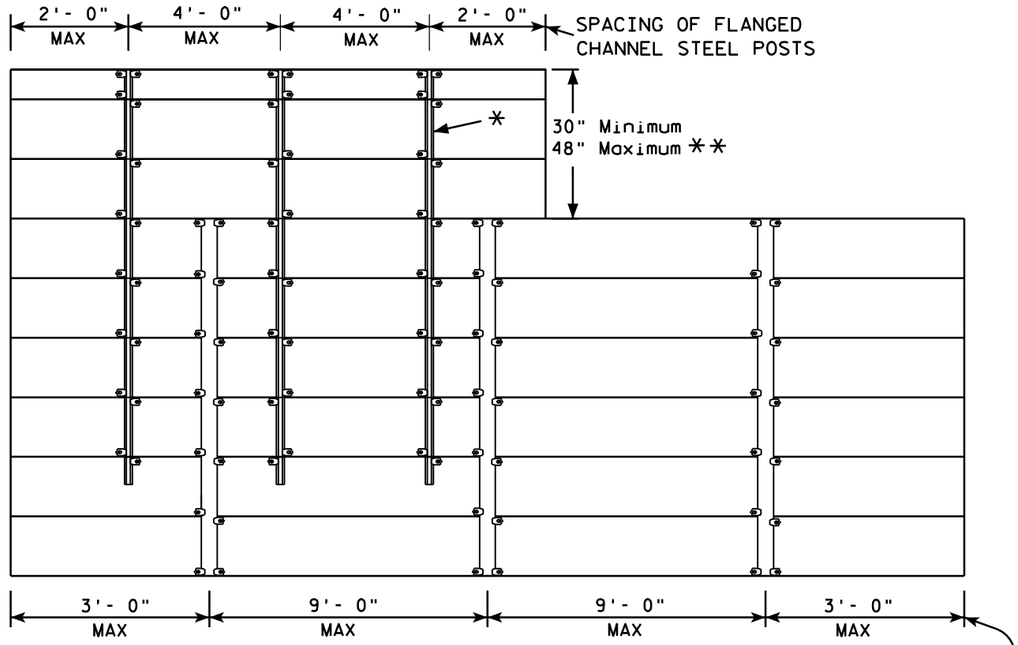
**=FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)

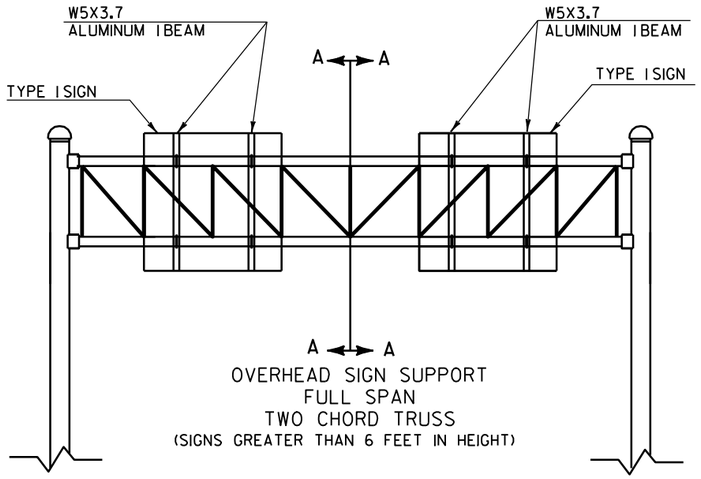
ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

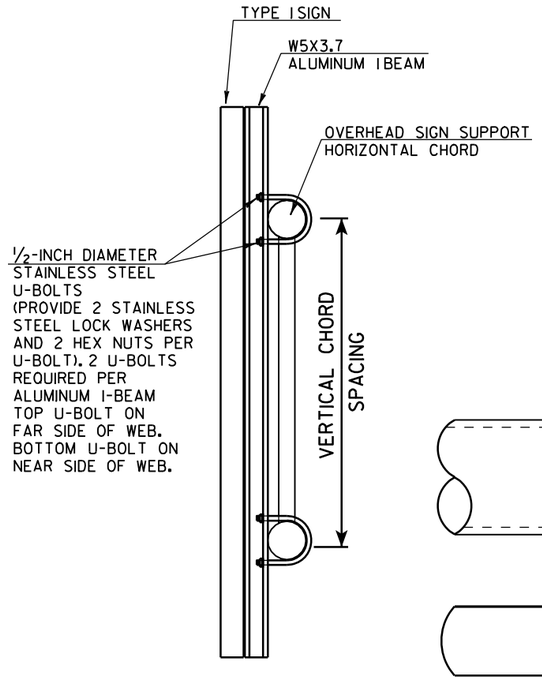
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/7/10 PLATE NO. A4-6.11

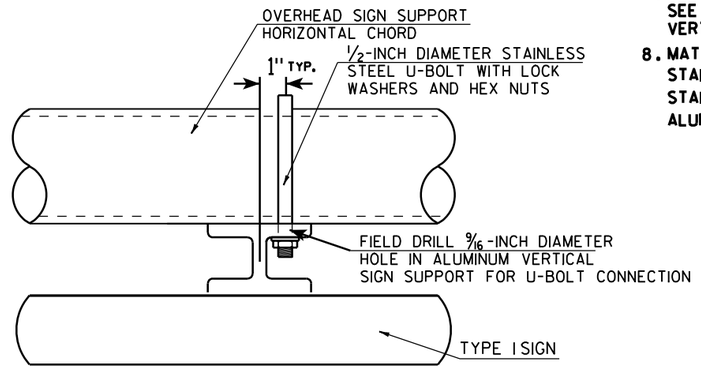
PROJECT NO:				SHEET NO: 664	E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



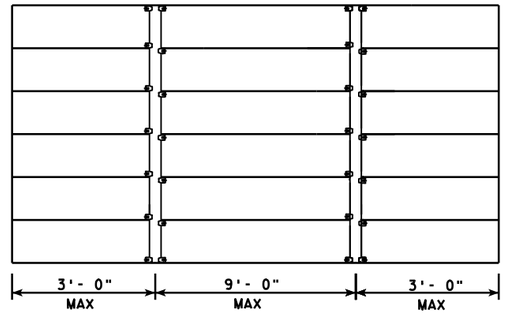
CUT SECTION A-A



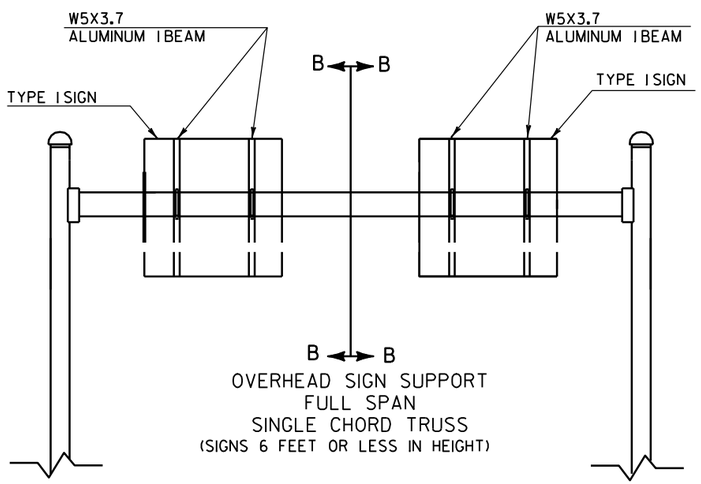
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

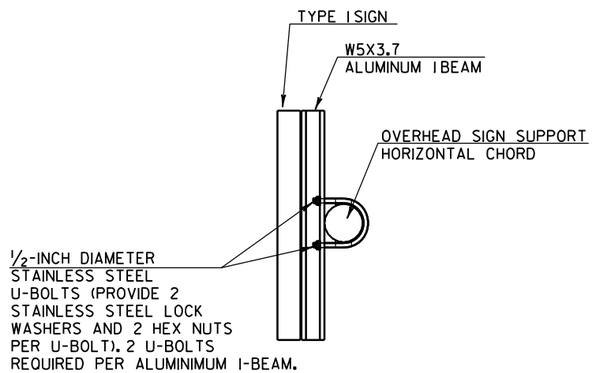
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.



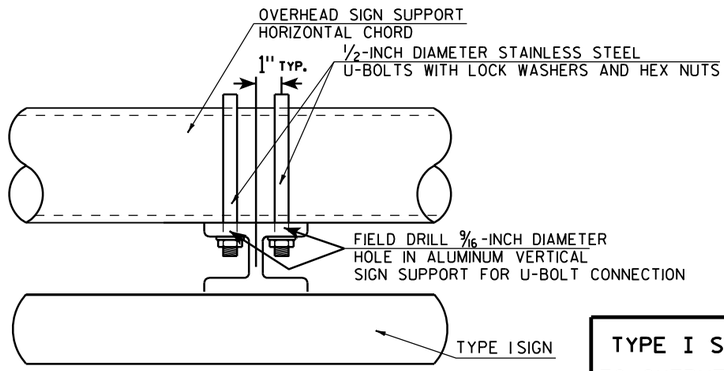
SPACING OF W5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
SINGLE CHORD TRUSS
(SIGNS 6 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
SINGLE CHORD TRUSS
PLAN VIEW

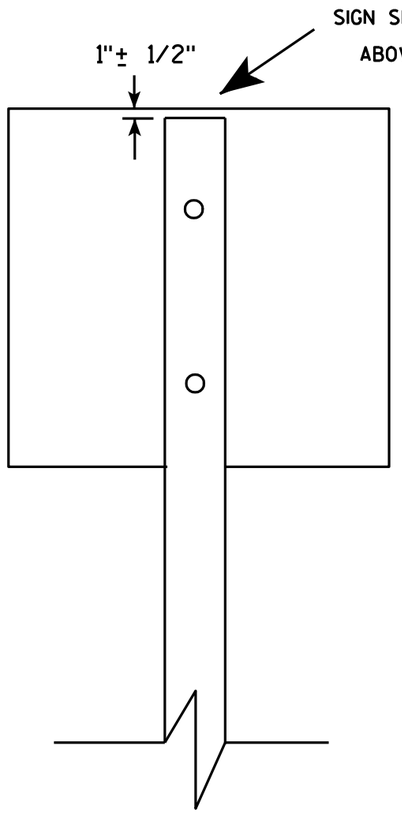
TYPE I SIGN CONNECTION TO OVERHEAD SIGN SUPPORT

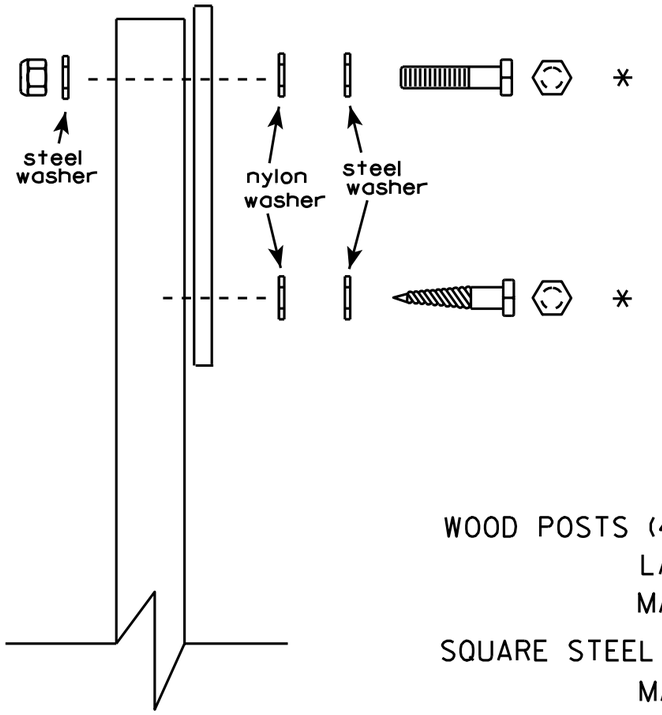
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/12/12 PLATE NO. A4-7.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 665	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

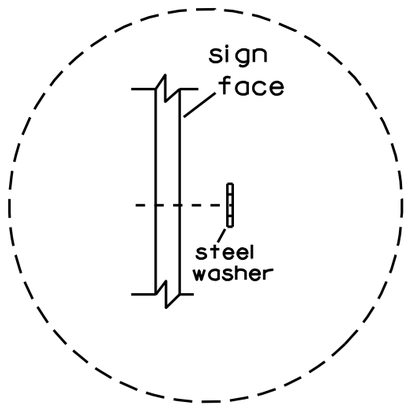
a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

7

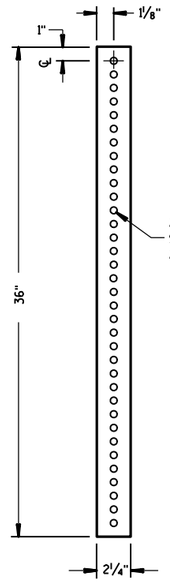
7

PROJECT NO:

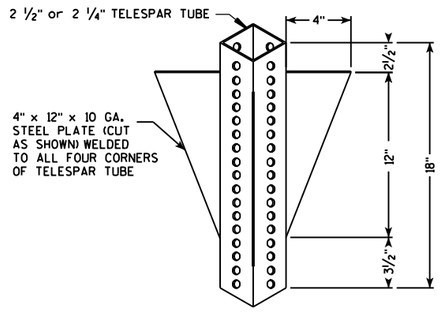
SHEET NO: 666 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

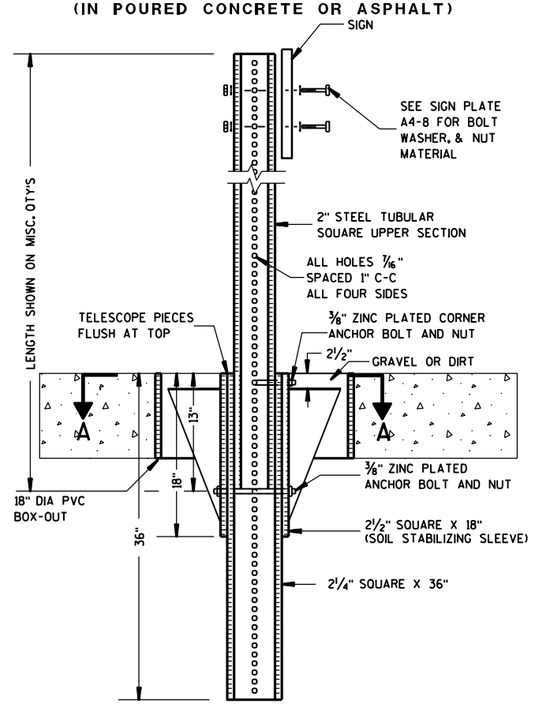
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



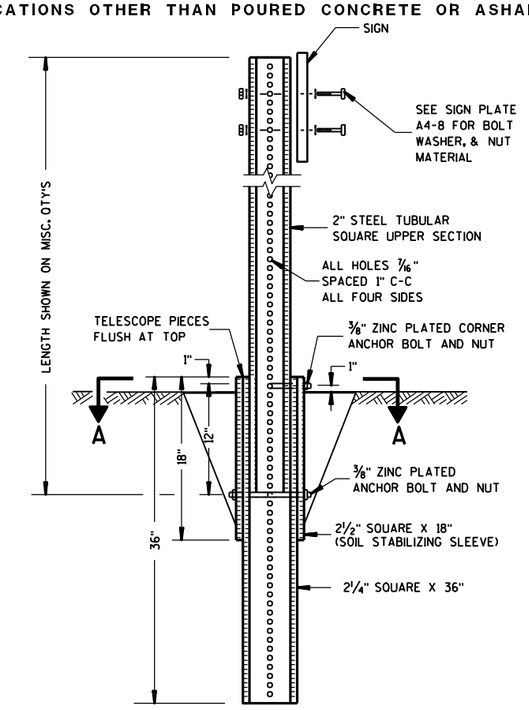
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

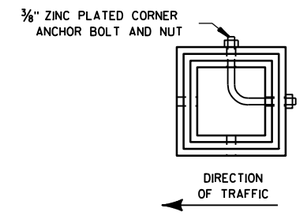


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

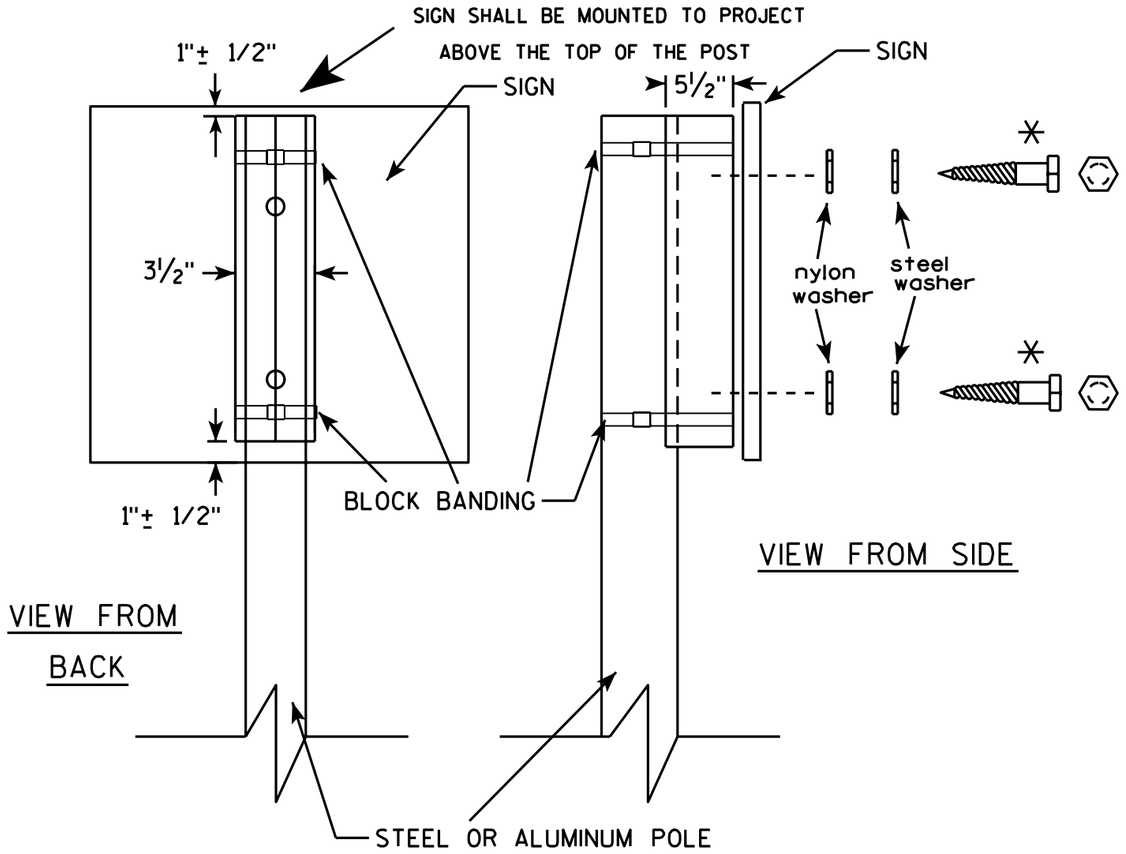
TUBULAR STEEL SIGN POST A4-9

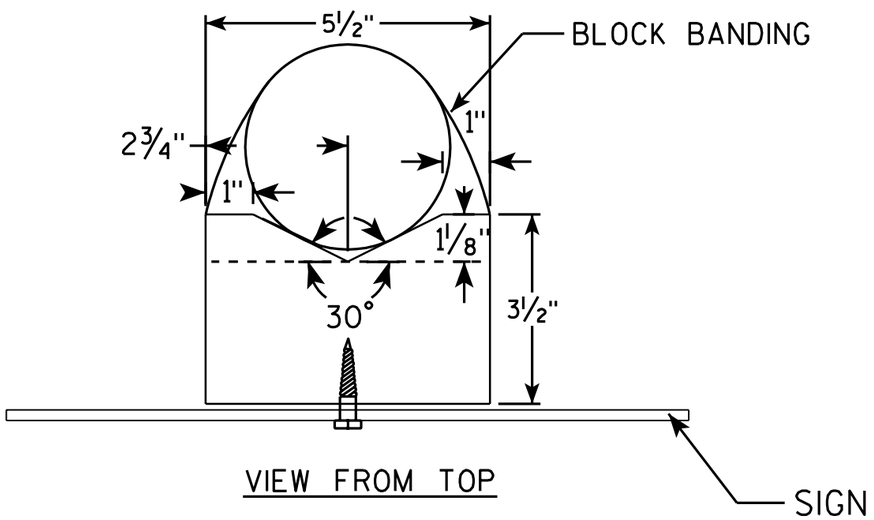
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/30/12 PLATE NO. A4-9.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 667	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

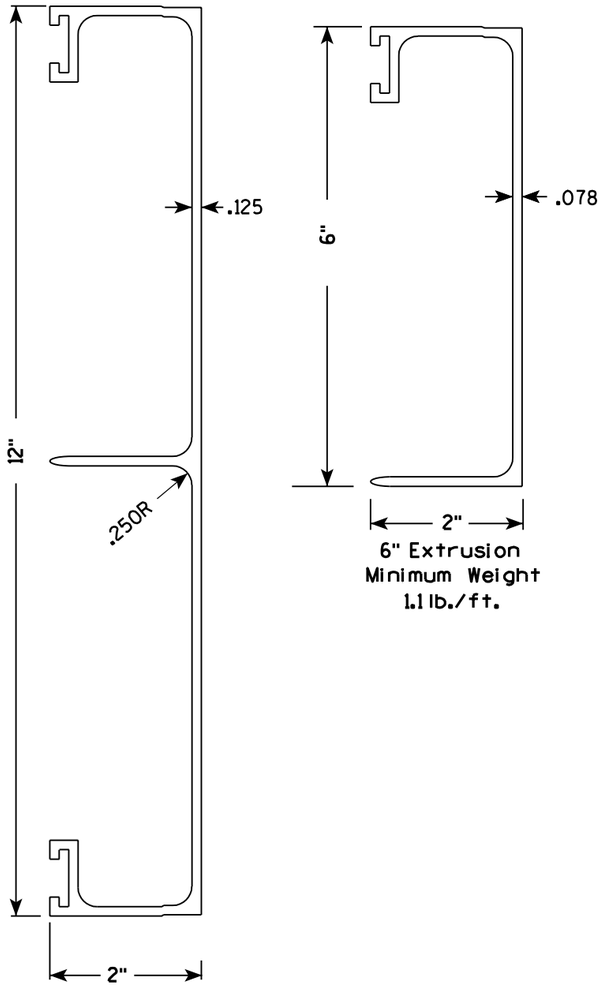
APPROVED Matthew R Rauch
for State Traffic Engineer

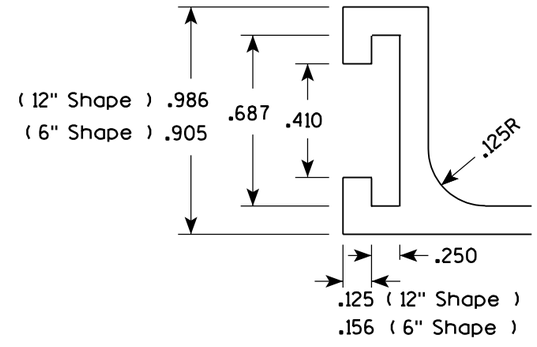
DATE 7/12/07 PLATE NO. A5-10.1

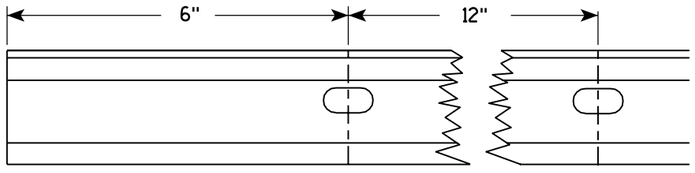
PROJECT NO:

SHEET NO: 668 E

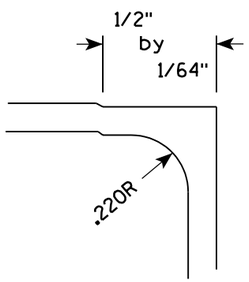
Extruded Shape







Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

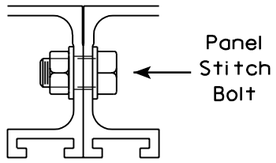


Hardware

STITCH BOLT, WASHER & NUT

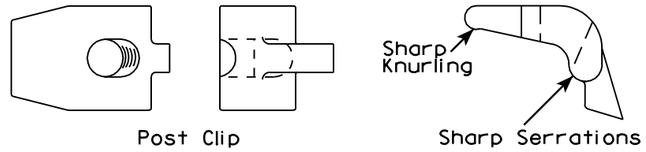
The hardware includes:

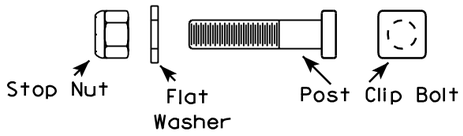
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

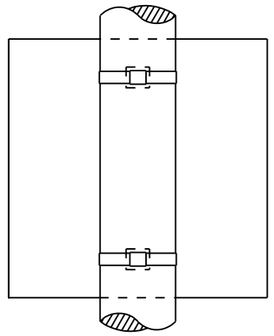
DATE 11/18/99 PLATE NO. A5-2.9

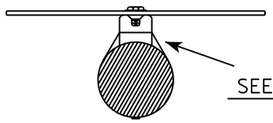
PROJECT NO:

SHEET NO: 669 E

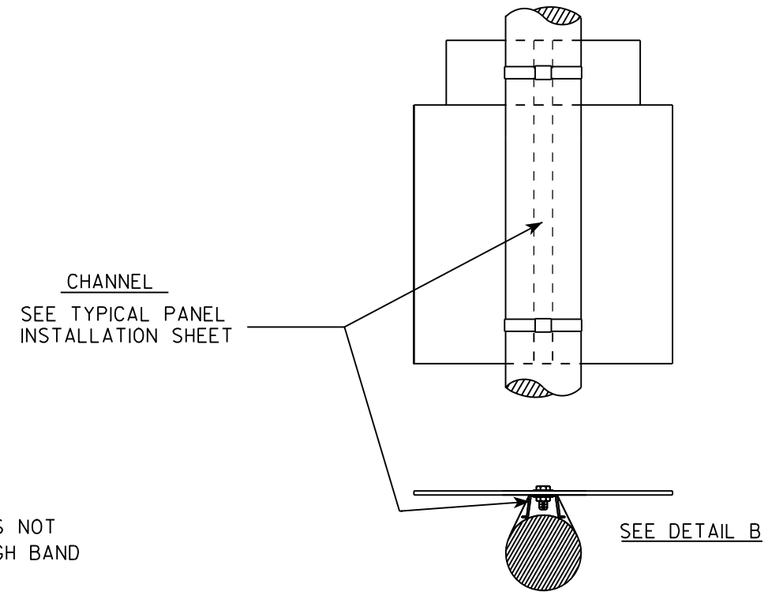
BANDING

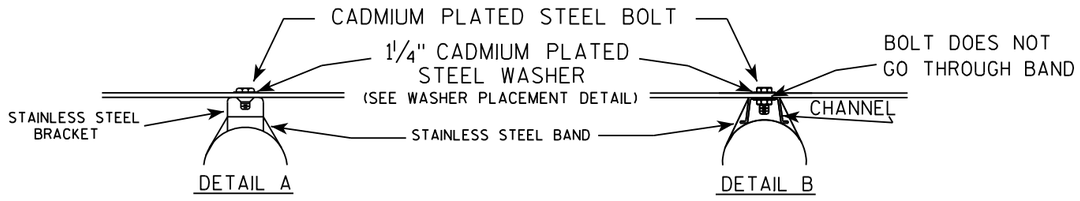
SINGLE SIGN



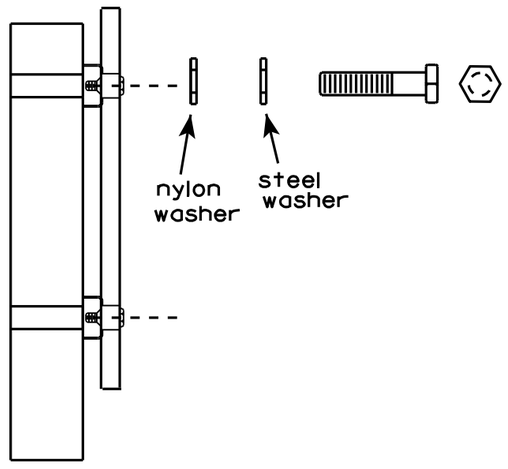


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

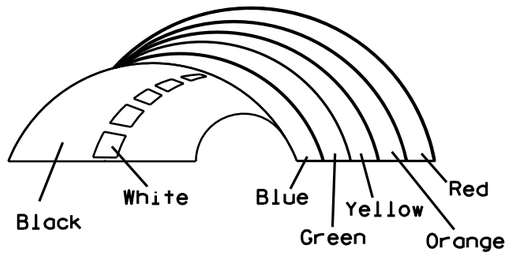
DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 670	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 - 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

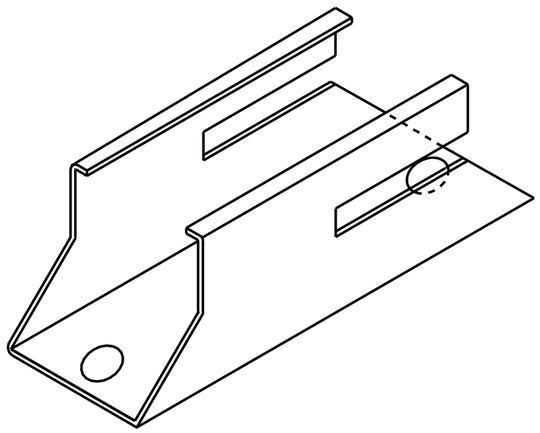
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 671

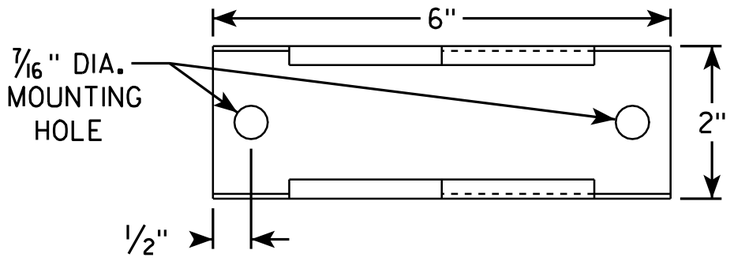
ISOMETRIC VIEW



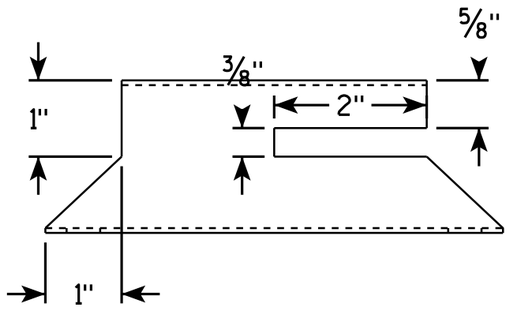
NOTES

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.

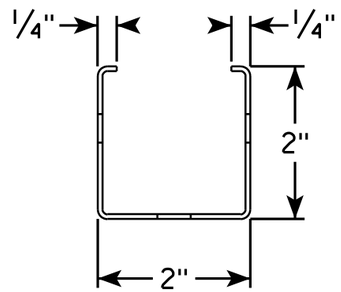
TOP VIEW



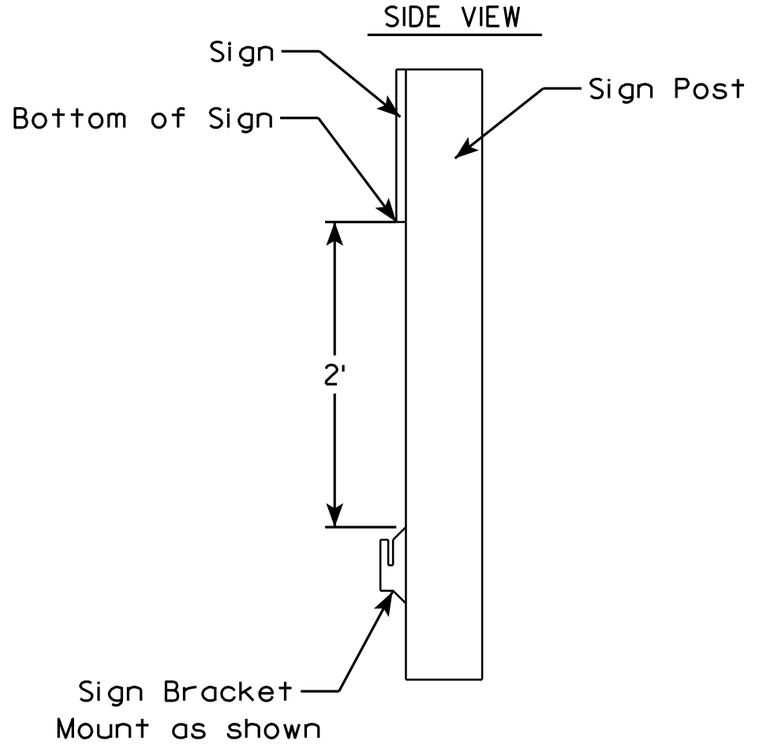
SIDE VIEW



END VIEW



SIDE VIEW



7

7

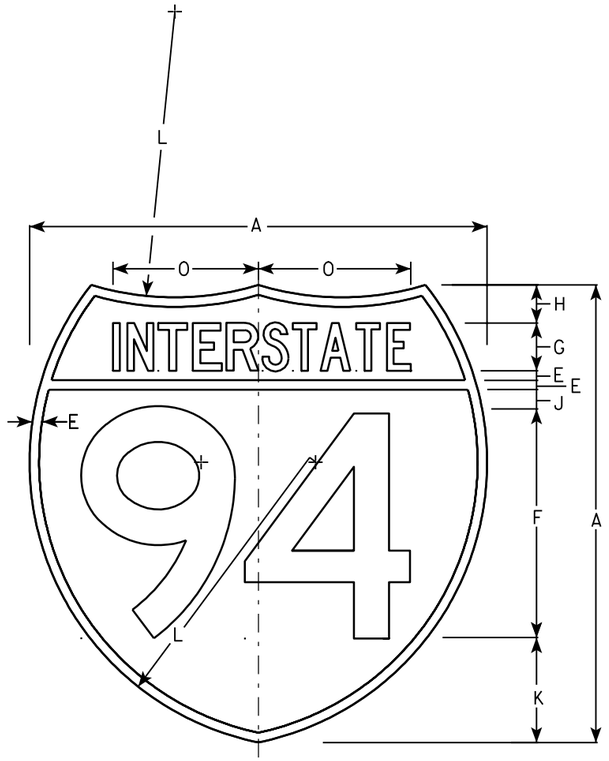
ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

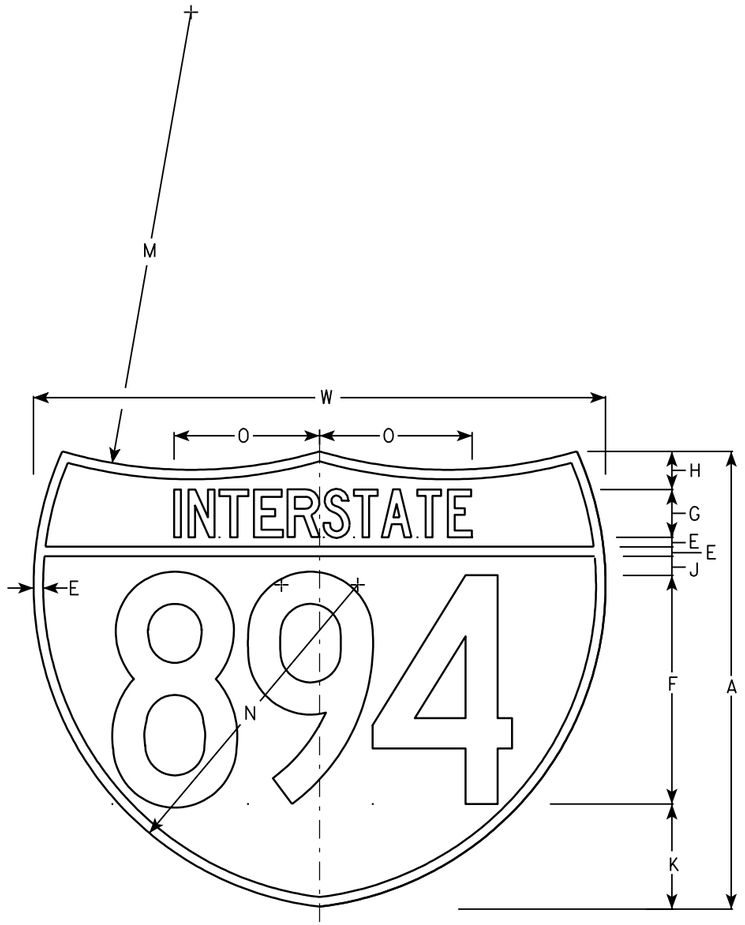
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 672	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

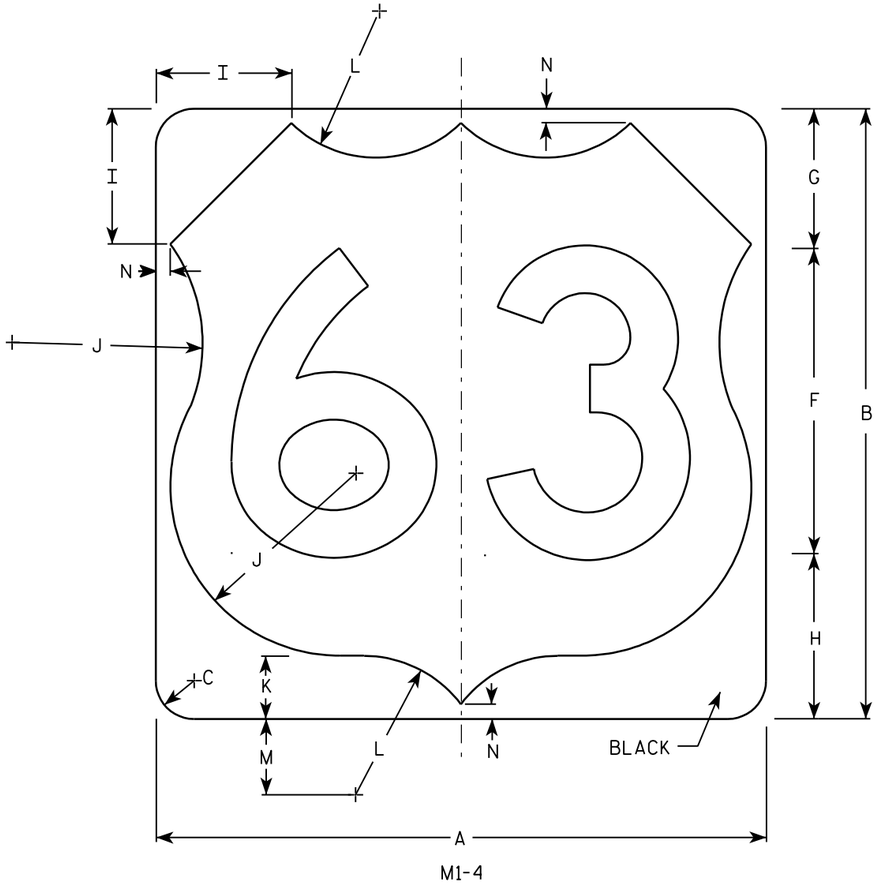
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

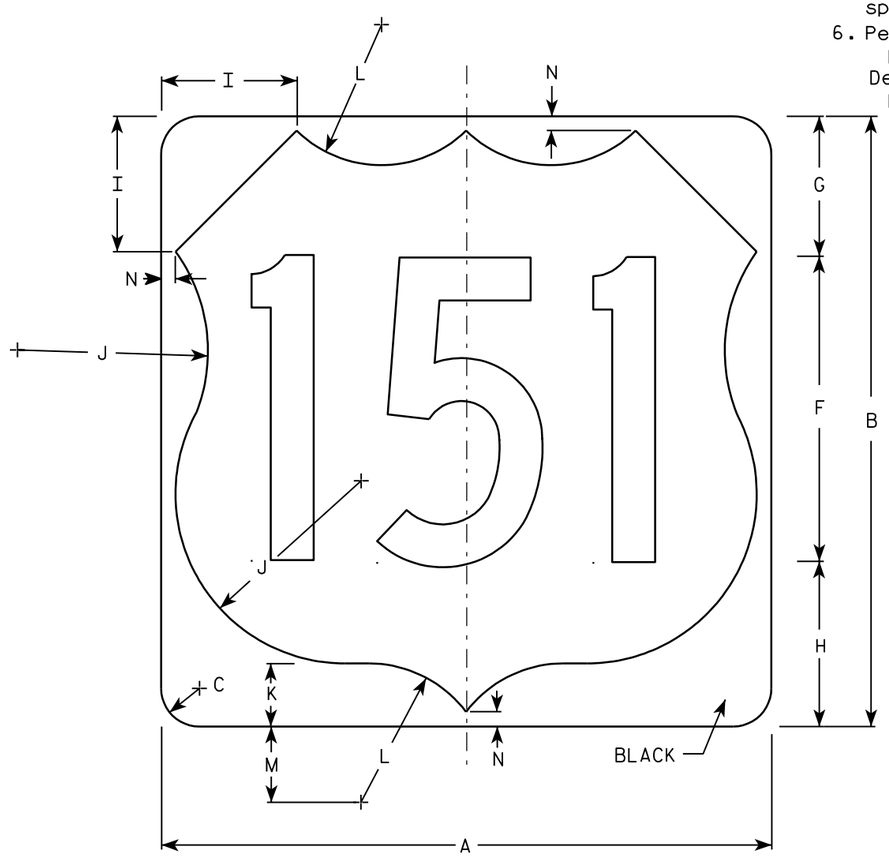
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 673	E

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

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

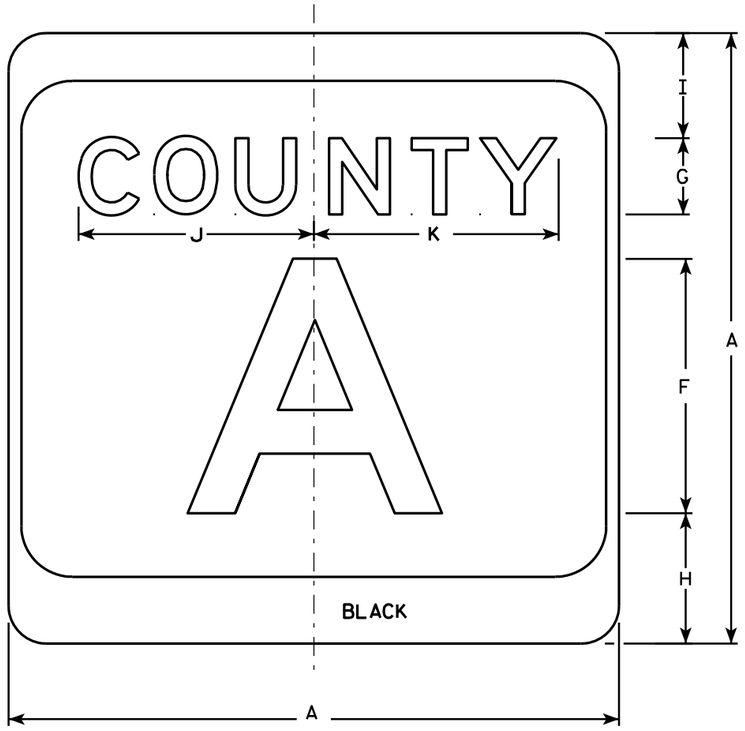
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

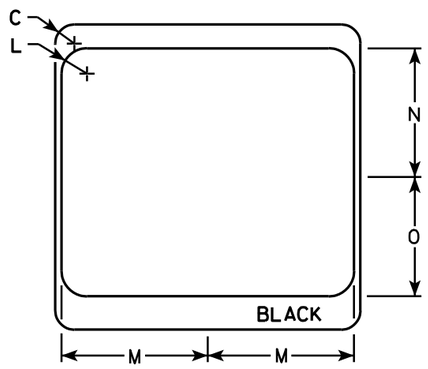
APPROVED Matthew R Rauch
for State Traffic Engineer

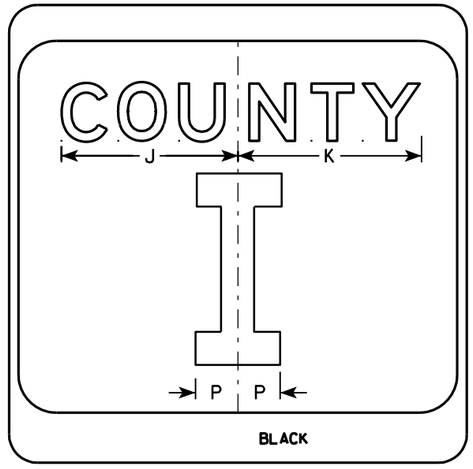
DATE 08/25/05 PLATE NO. M1-4.9

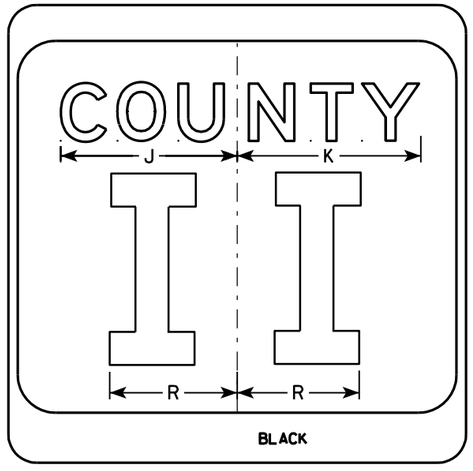
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 674 | E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

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		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

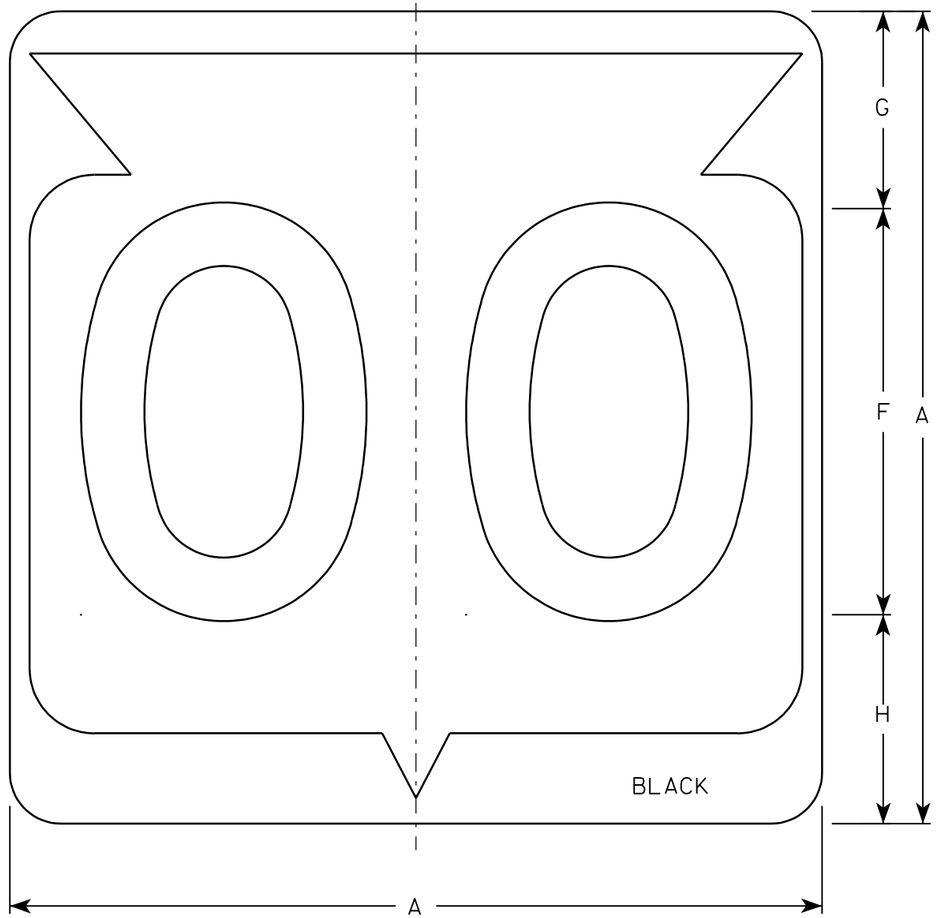
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

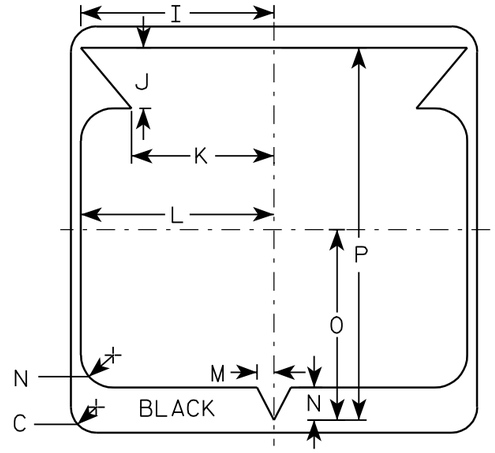
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 675 | E



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

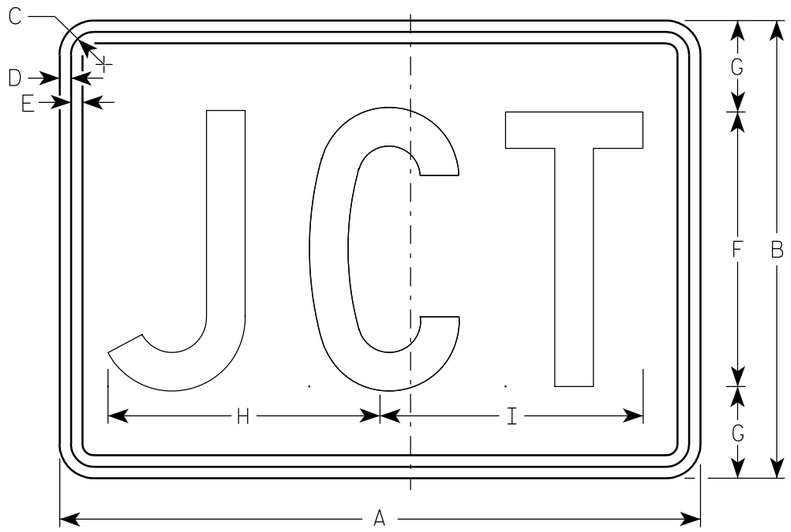
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

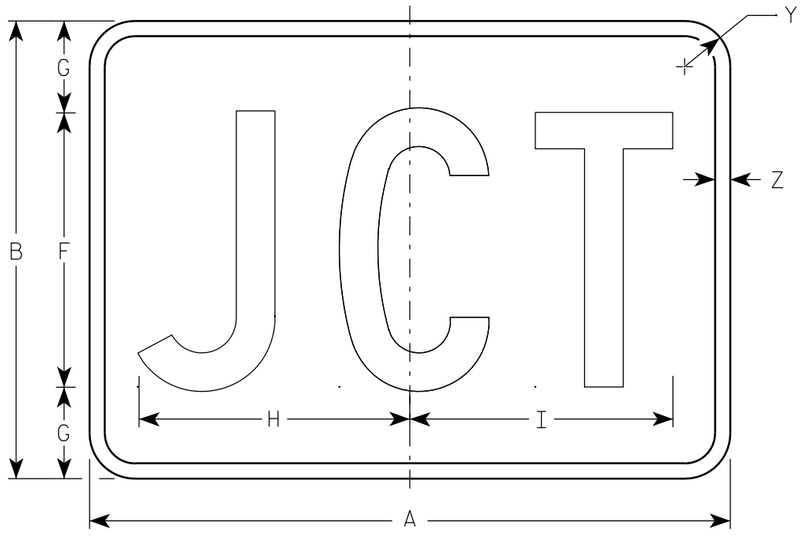
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 676	E



M2-1
MK2-1
MM2-1
MR2-1



MB2-1
MG2-1
MN2-1

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB2-1 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG2-1 Background - Green
   Message - White - Type H Reflective
   MK2-1 Background - Green
   Message - White - Type H Reflective
   MM2-1 Background - White - Type H Reflective
   Message - Green
   MN2-1 Background - Brown
   Message - White - Type H Reflective
   MR2-1 Background - Brown
   Message - Yellow - Type H Reflective

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
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	0.20
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	0.20
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	0.20

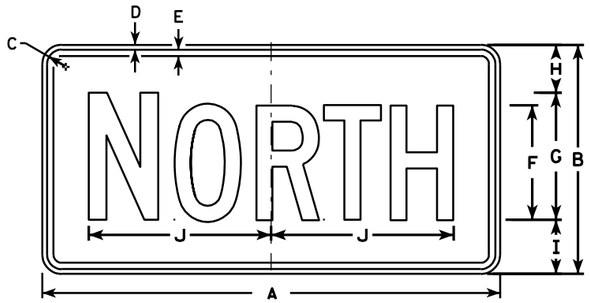
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

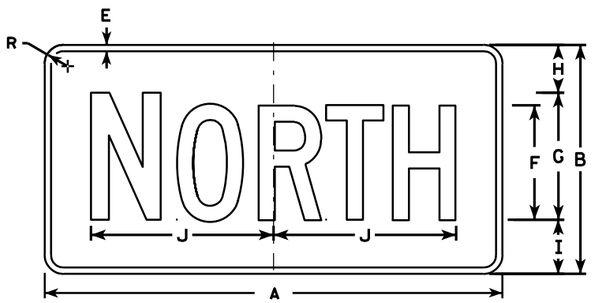
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M2-1.10

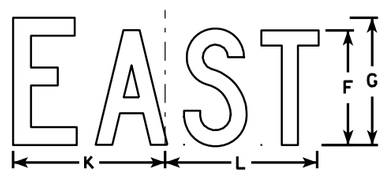
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 677	E



M3-1
MK3-1
MO3-1

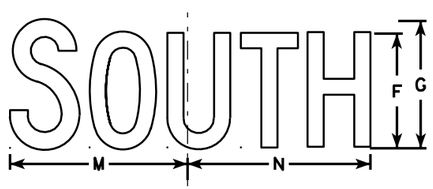


MB3-1
MG3-1
MM3-1
MN3-1

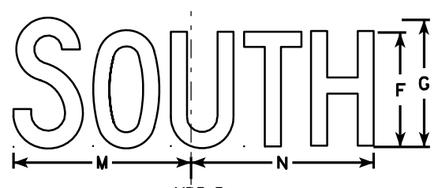


M3-2
MK3-2
MO3-2

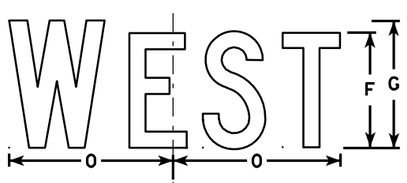
MB3-2
MG3-2
MM3-2
MN3-2



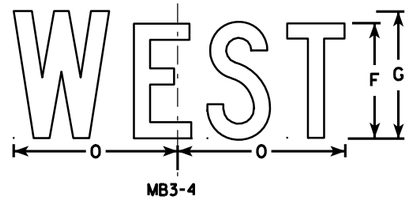
M3-3
MK3-3
MO3-3



MB3-3
MG3-3
MM3-3
MN3-3



M3-4
MK3-4
MO3-4



MB3-4
MG3-4
MM3-4
MN3-4

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective (Detour or temporary signs - Reflective) Message - Black
   MB3-1 thru MB3-4 Background - Blue Message - White - Type H Reflective (Detour or temporary signs - Reflective)
   MG3-1 thru MG3-4 Background - Green Message - White - Type H Reflective
   MK3-1 thru MK3-4 Background - Green Message - White - Type H Reflective
   MM3-1 thru MM3-4 Background - White - Type H Reflective Message - Green
   MN3-1 thru MN3-4 Background - Brown Message - White - Type H Reflective
   M03-1 thru M03-4 Background - Orange - Reflective Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

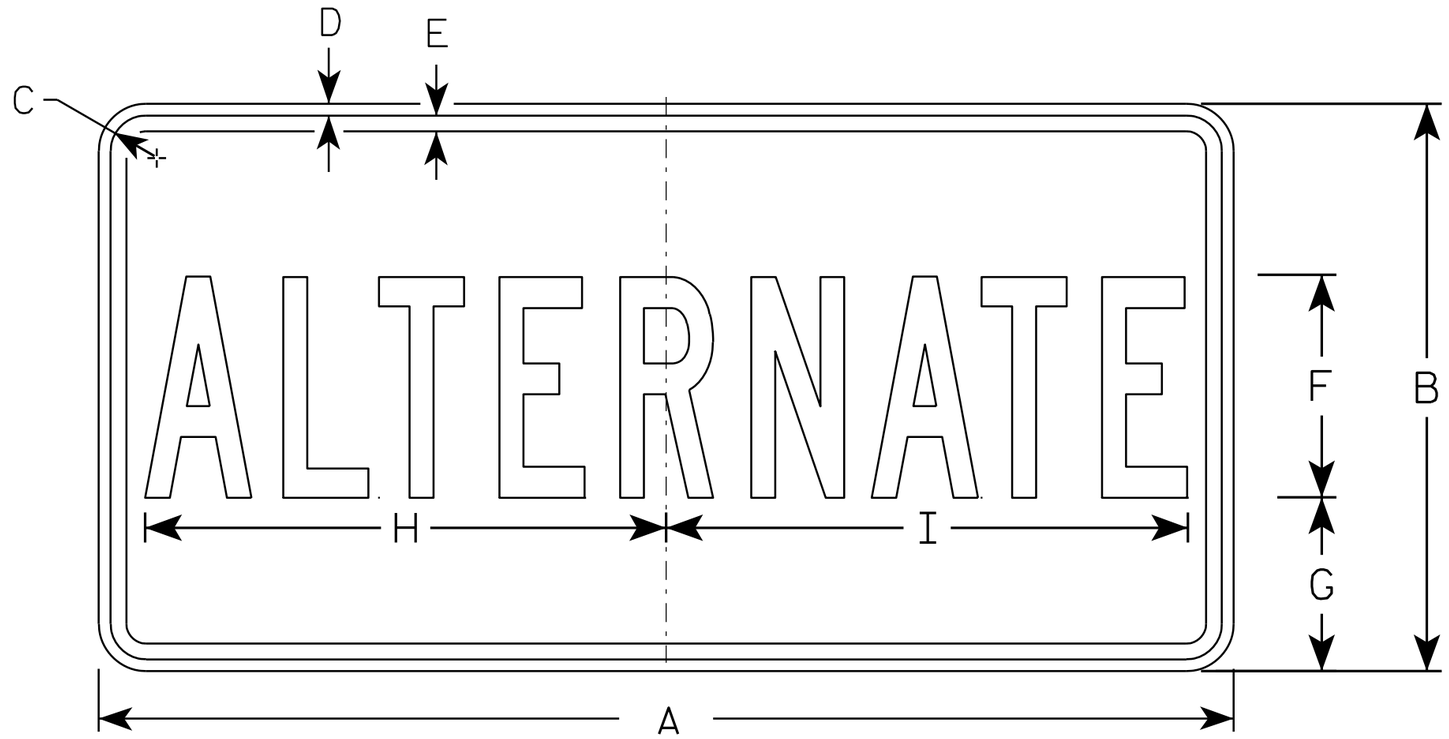
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 678	E



M4 - 1

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See Note 5
   Message - See note 5
3. Message Series - 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 - Type H Reflective
   Message - Black

   MB4-1 Background - Blue
   Message - White - Type H Reflective

   M04-1 Background - Orange - Reflective
   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 ½	⅜	⅜	4	4	9 ¾	9 ½																		2.00
3	36	18	1 ½	⅜	½	7	5 ½	16 ⅜	16 ½																		4.5
4	36	18	1 ½	⅜	½	7	5 ½	16 ⅜	16 ½																		4.5
5	36	18	1 ½	⅜	½	7	5 ½	16 ⅜	16 ½																		4.5

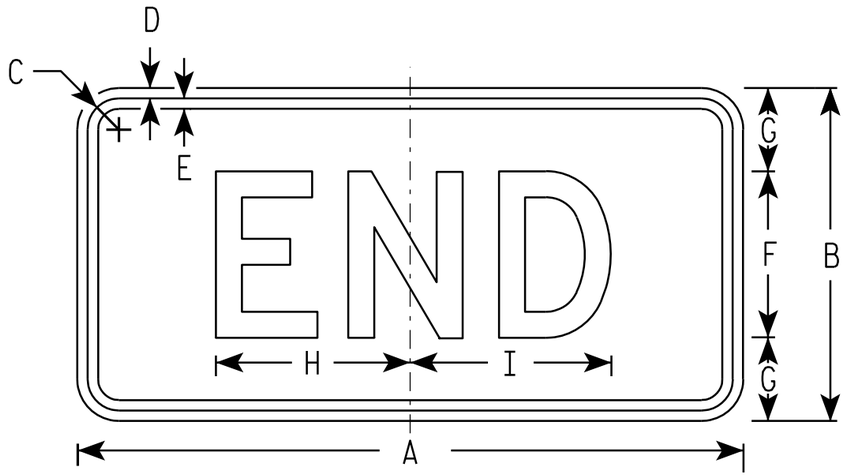
STANDARD SIGN
M4 - 1

WISCONSIN DEPT OF TRANSPORTATION

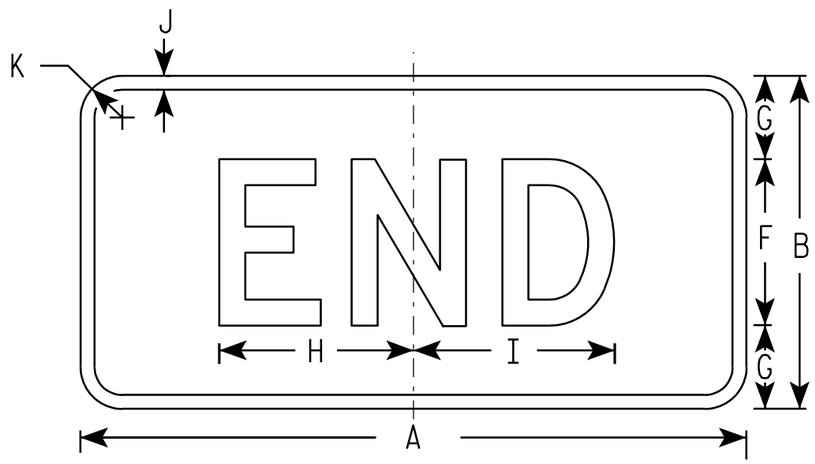
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-1.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 679	E



M4-6
MK4-6
MM4-6
MR4-6



MB4-6
MG4-6
MN4-6

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - 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. M4-6 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black

   MB4-6 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)

   MG4-6 Background - Green
   Message - White - Type H Reflective

   MK4-6 Background - Green
   Message - White - Type H Reflective

   MM4-6 Background - White - Type H Reflective
   Message - Green

   MN4-6 Background - Brown
   Message - White - Type H Reflective

   MR4-6 Background - Brown
   Message - Yellow - Type H Reflective

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	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-6

WISCONSIN DEPT OF TRANSPORTATION

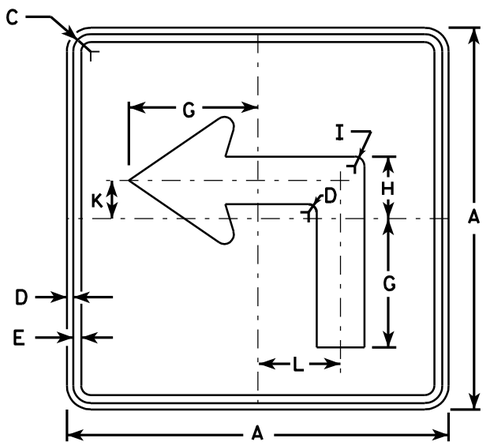
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-6.7

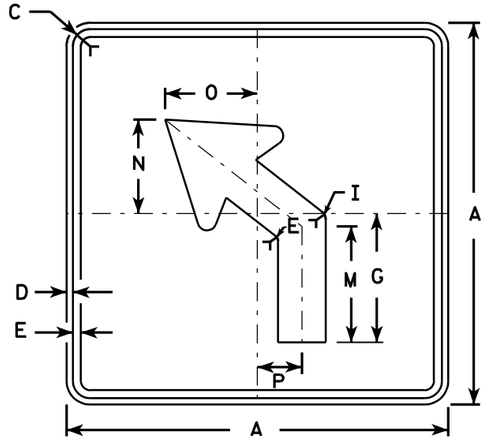
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 680 | E

7

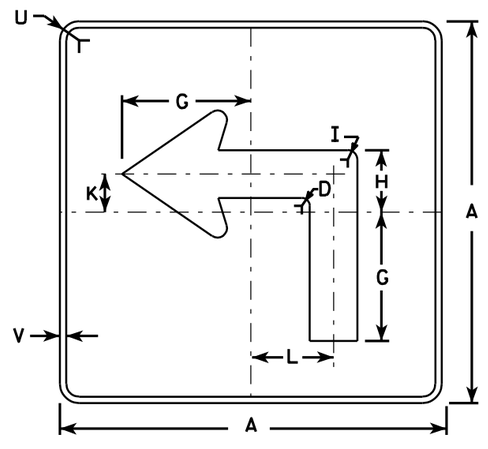
FILE NAME : C:\Users\PROJECTS\tr_stdplate\M46.DGN PLOT DATE : 10-NOV-2010 12:57 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 5.462457:1.000000
WISDOT/CADDS SHEET 42



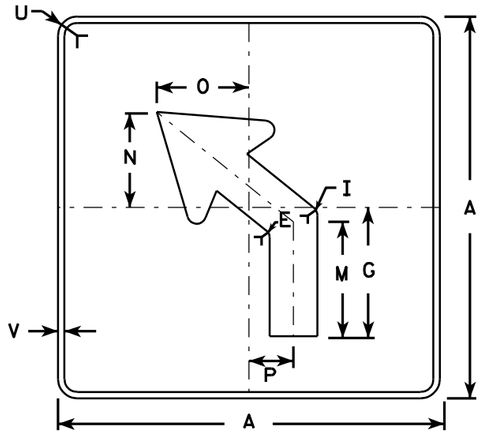
M5-1L
MK5-1L
MM5-1L
MO5-1L
MP5-1L
MR5-1L



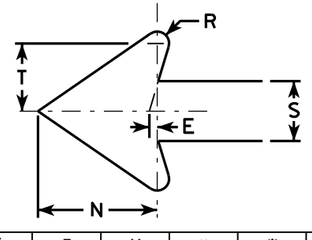
M5-2L
MK5-2L
MM5-2L
MO5-2L
MP5-2L
MR5-2L



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

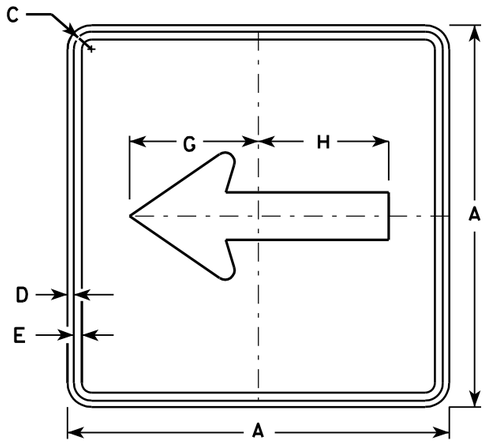
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

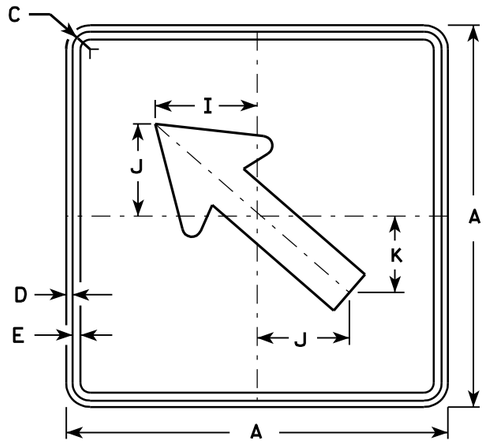
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M5-1.12

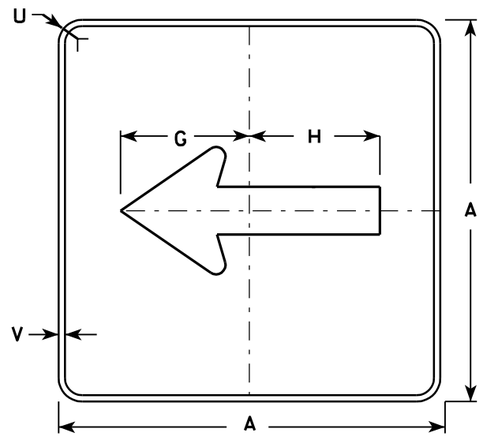
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 681	E



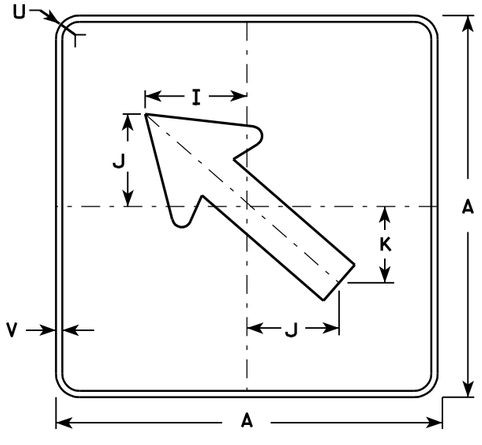
M6-1
MK6-1
MM6-1
MO6-1
MP6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MP6-2
MR6-2



MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White - Type H Reflective
   Message - Black

   MB6-1 and MB6-2 Background - Blue
   Message - White - Type H Reflective

   MG6-1 and MG6-2 Background - Green
   Message - White - Type H Reflective

   MK6-1 and MK6-2 Background - Green
   Message - White - Type H Reflective

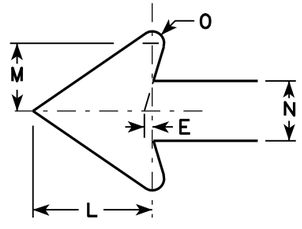
   MM6-1 and MM6-2 Background - White - Type H Reflective
   Message - Green

   MN6-1 and MN6-2 Background - Brown
   Message - White - Type H Reflective

   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black

   MP6-1 and MP6-2 Background - White - Type H Reflective
   Message - Blue

   MR6-1 and MR6-2 Background - Brown
   Message - White - Type H Reflective



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

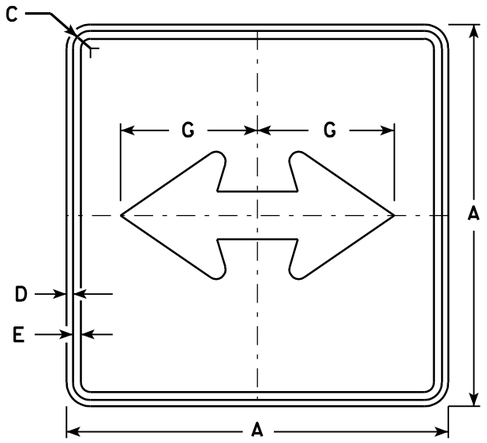
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

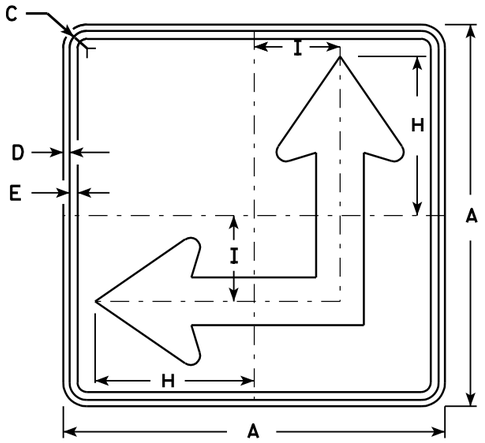
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/29/13 PLATE NO. M6-1.13

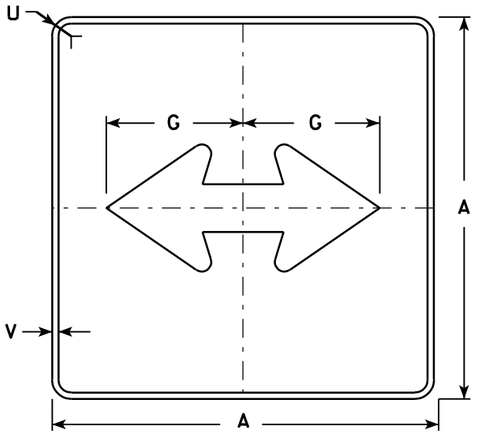
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 682 | E



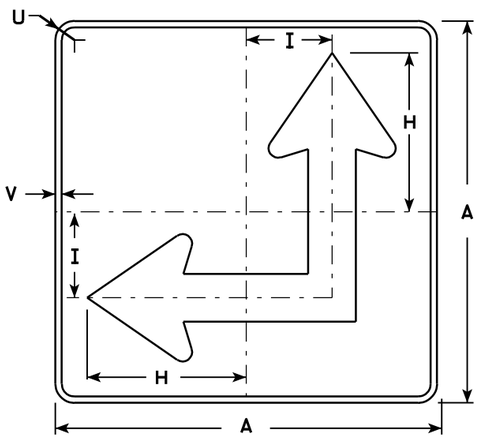
M6-4
MK6-4
MM6-4
MO6-4
MP6-4
MR6-4



M6-6
MK6-6
MM6-6
MO6-6
MP6-6
MR6-6



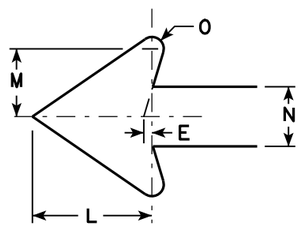
MB6-4
MG6-4
MN6-4



MB6-6
MG6-6
MN6-6

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White - Type H Reflective
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White - Type H Reflective
   MG6-4 and MG6-6 Background - Green
   Message - White - Type H Reflective
   MK6-4 and MK6-6 Background - Green
   Message - White - Type H Reflective
   MM6-4 and MM6-6 Background - White - Type H Reflective
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White - Type H Reflective
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White - Type H Reflective
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow - Type H Reflective
5. M6-6R same as M6-6L except arrow points ahead and 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 1/2	8 3/4	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	12 1/2	6 3/4			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	12 1/2	6 3/4			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	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

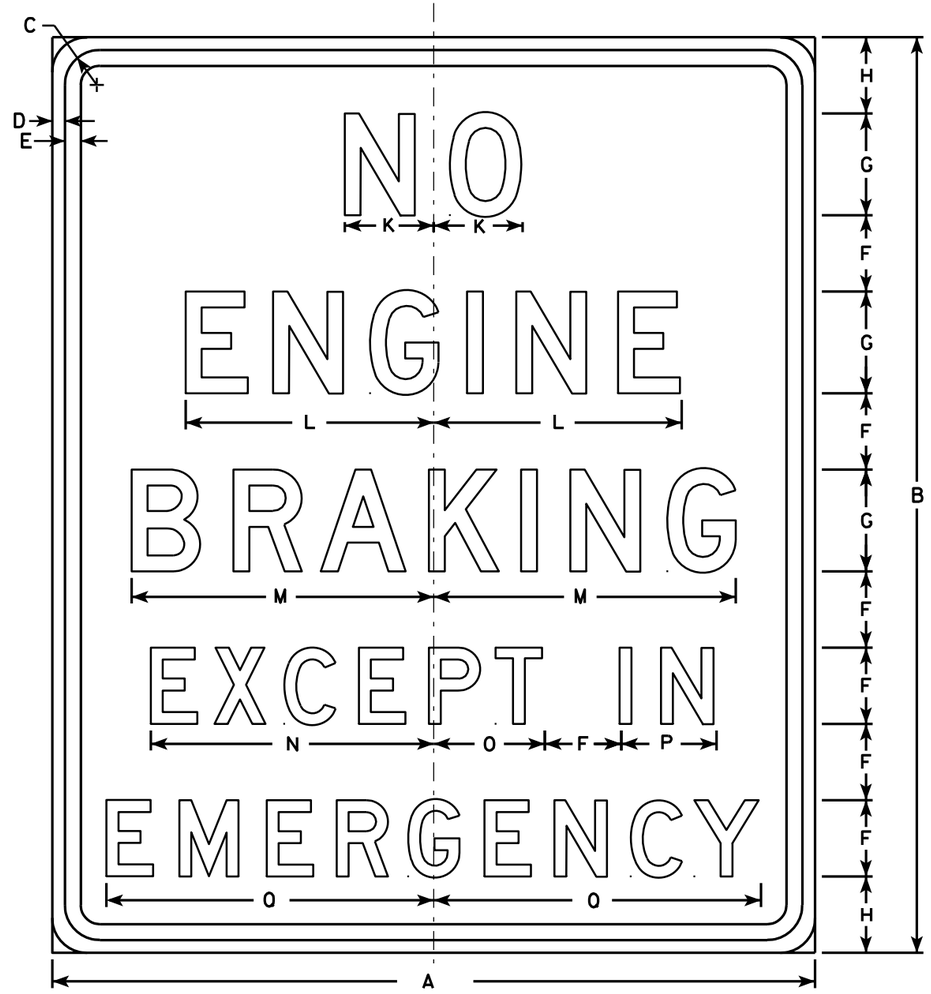
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 7/29/13 PLATE NO. M6-4.8

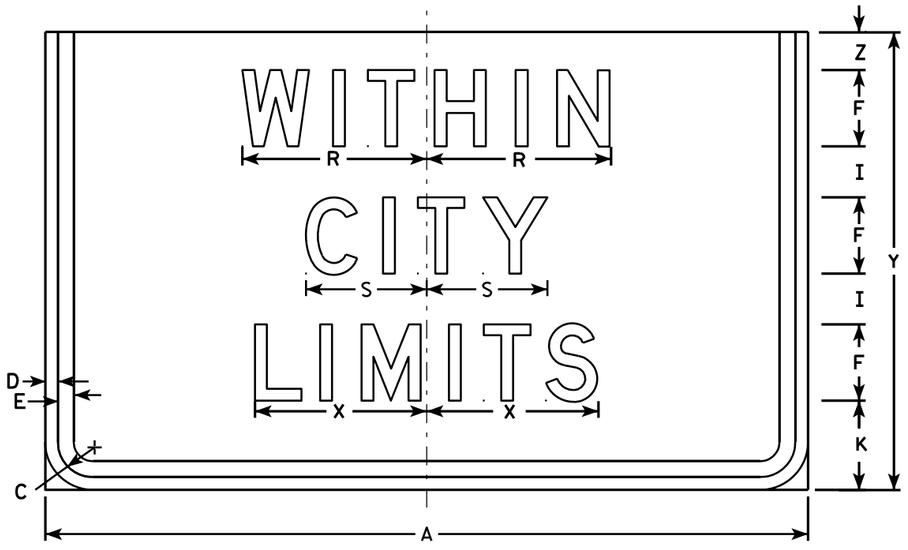
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 683 | E



R10-64

NOTES

1. Signs are 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 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 2 of R10-64F is Series C for "TOWNSHIP" Only



R10-64F

Area sq. ft.
3.75
7.0

VILLAGE
V
V

TOWNSHIP
U
U

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	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2S	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2M	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
3	42	48	1 3/8	1/2	5/8	4	5	4 1/2	3		4	12 1/4	14 7/8	14 1/8	5 1/4	4 3/4	16 1/4	9	6		11	11 1/4	1 1/2	8 1/2	24	2	14.0
4																											
5																											

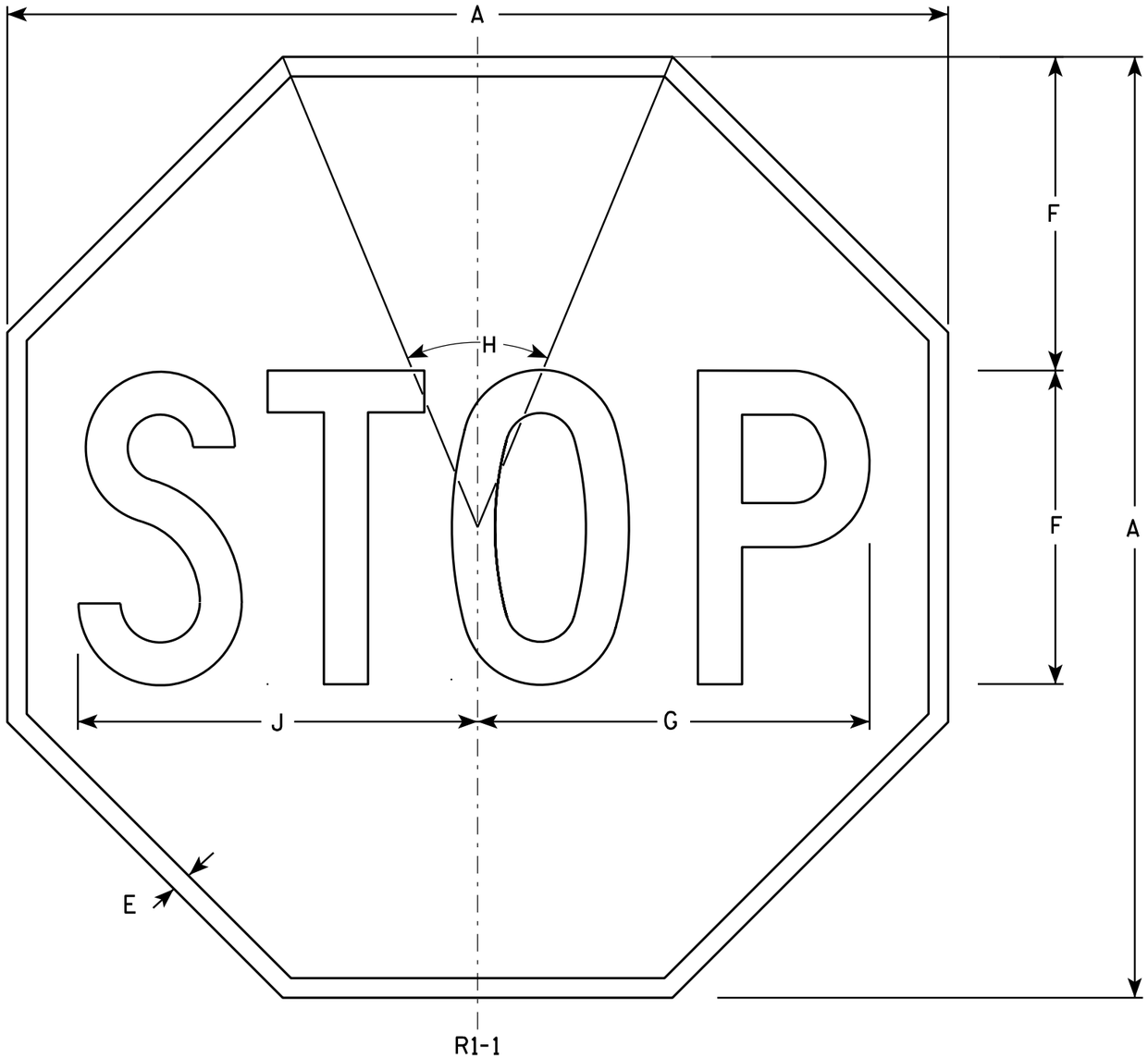
STANDARD SIGN
R10-64 & R10-64F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/4/11 PLATE NO. R10-64.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 684	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

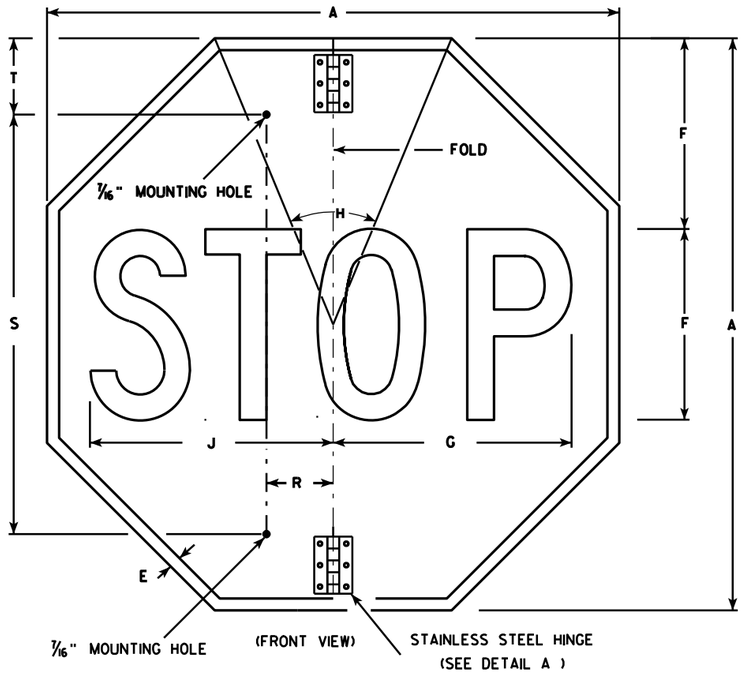
STANDARD SIGN
R1-1

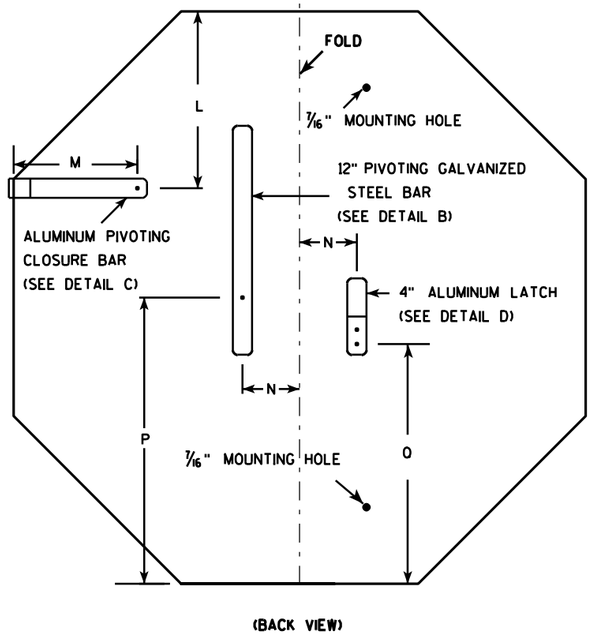
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

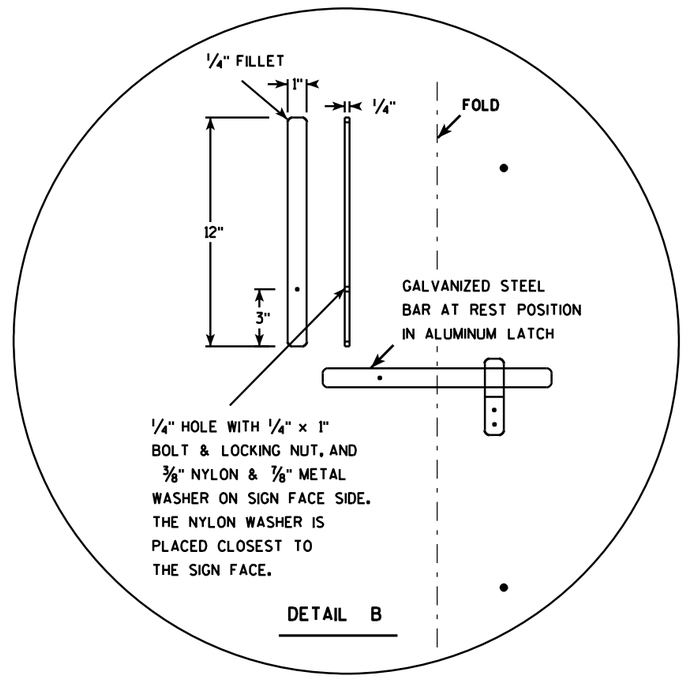
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 685	E



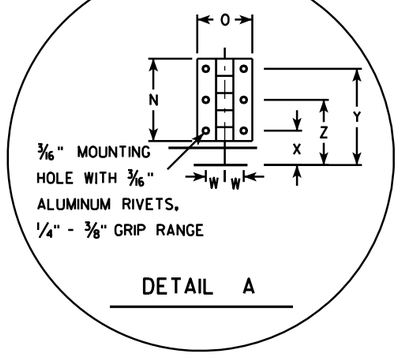


NOTES

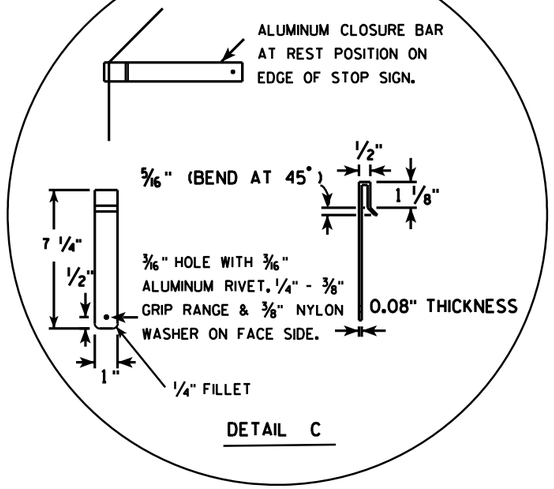
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



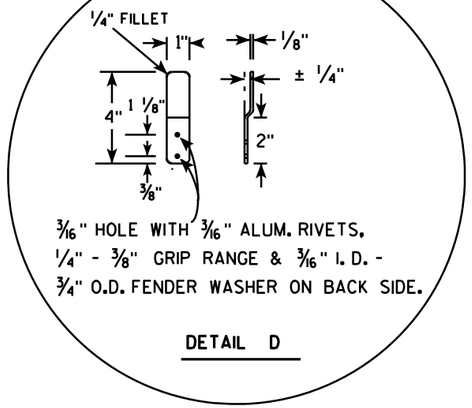
DETAIL B



DETAIL A



DETAIL C



DETAIL D

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																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

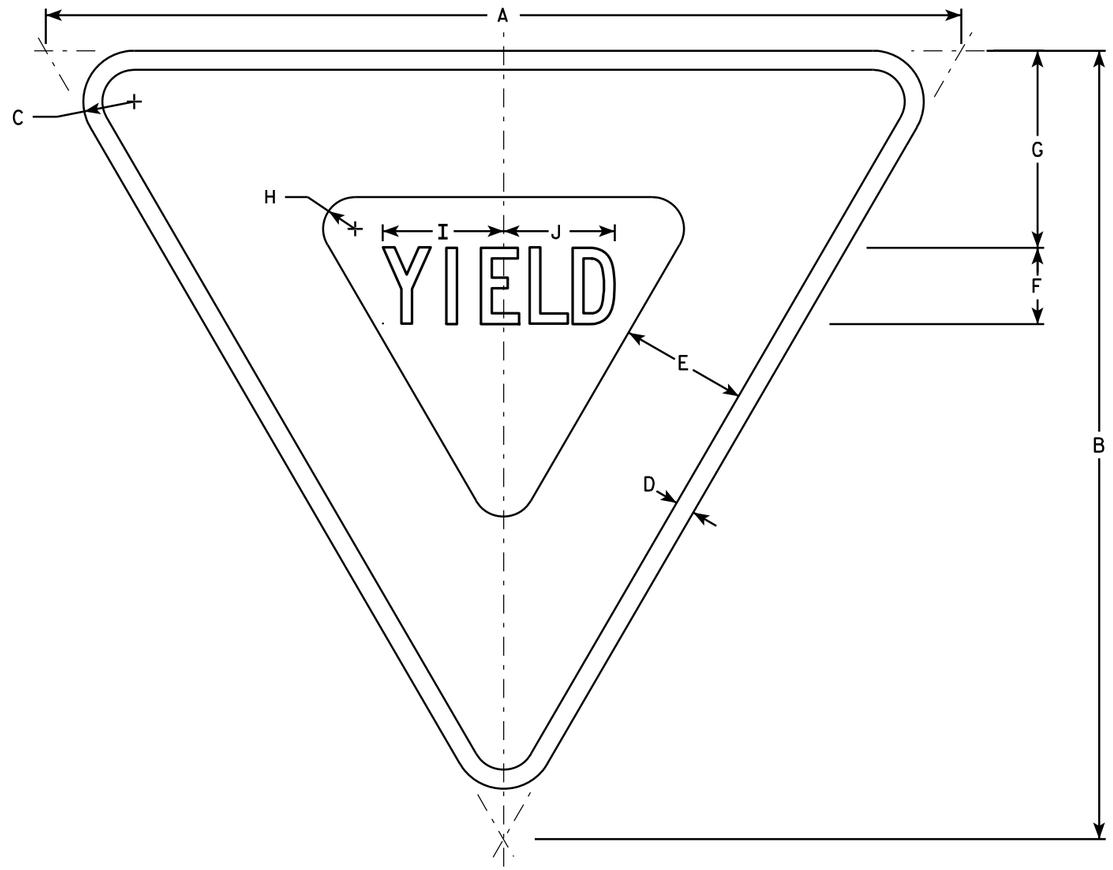
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 686 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R11F.DGN PLOT DATE : 02-DEC-2010 15:26 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42

7

7



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6	24	21	1 1/2	3/8	3	2	4 3/4	7/8	3 1/4	3																	1.75
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

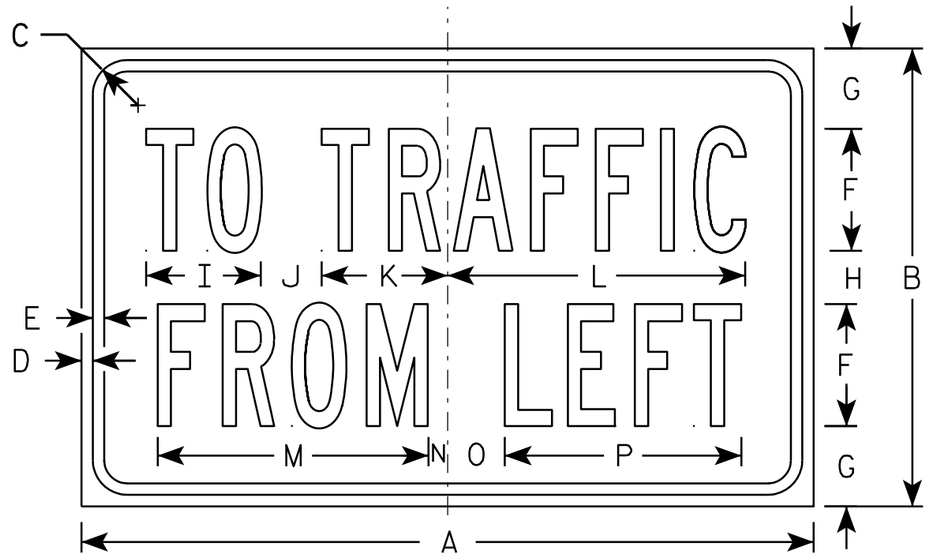
STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-2.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 687 | E



R1-54

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 - B

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	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

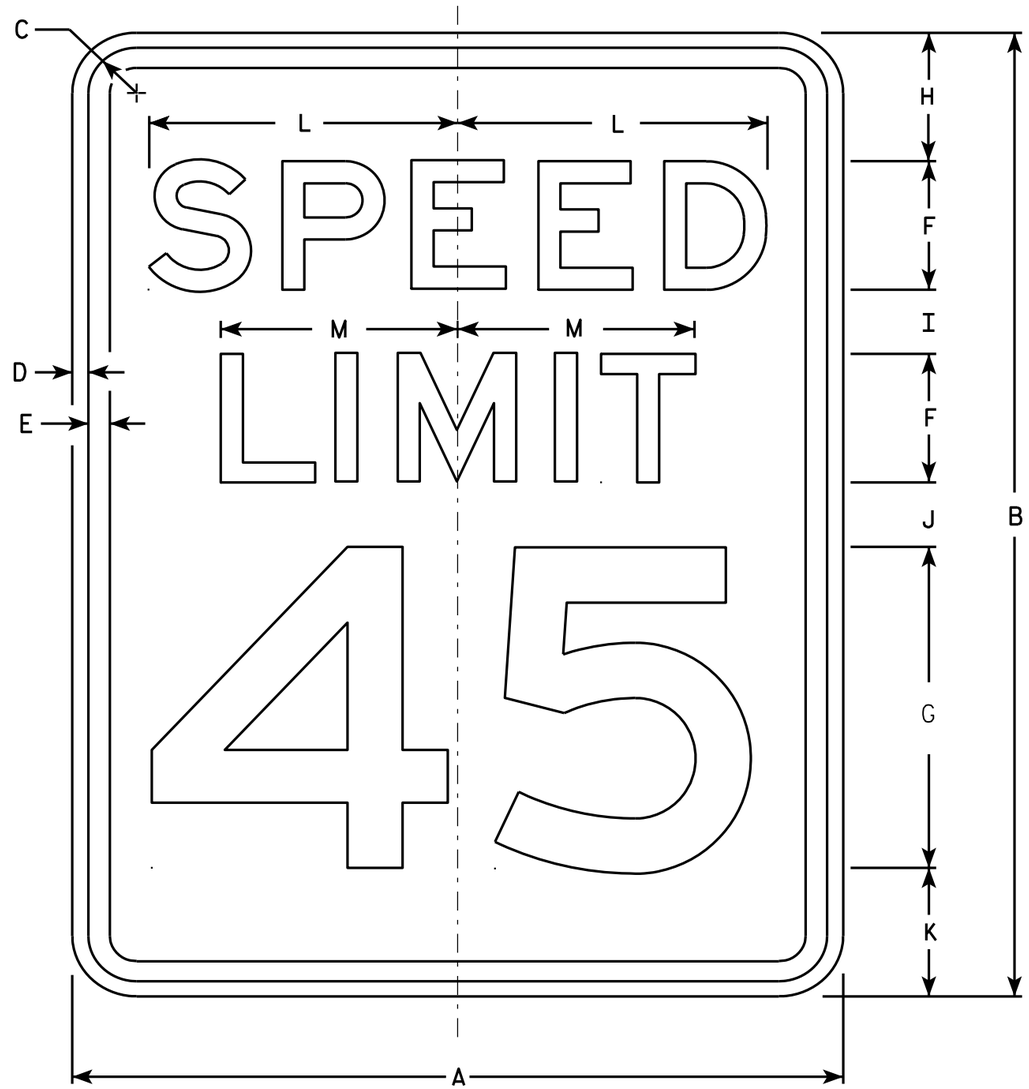
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 688	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

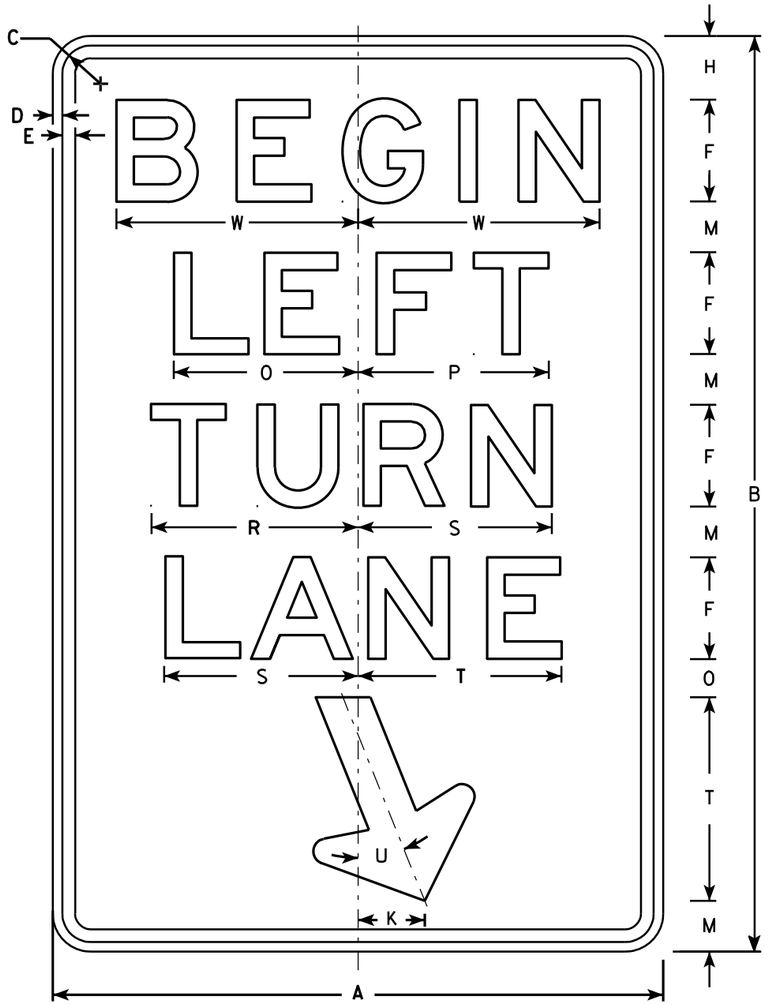
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

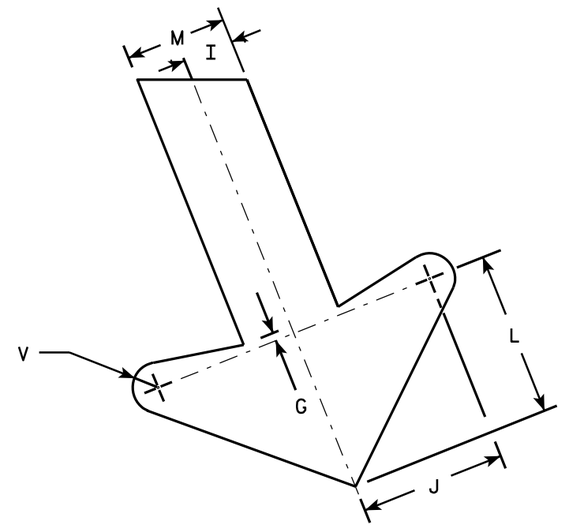
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 689 | E



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																											

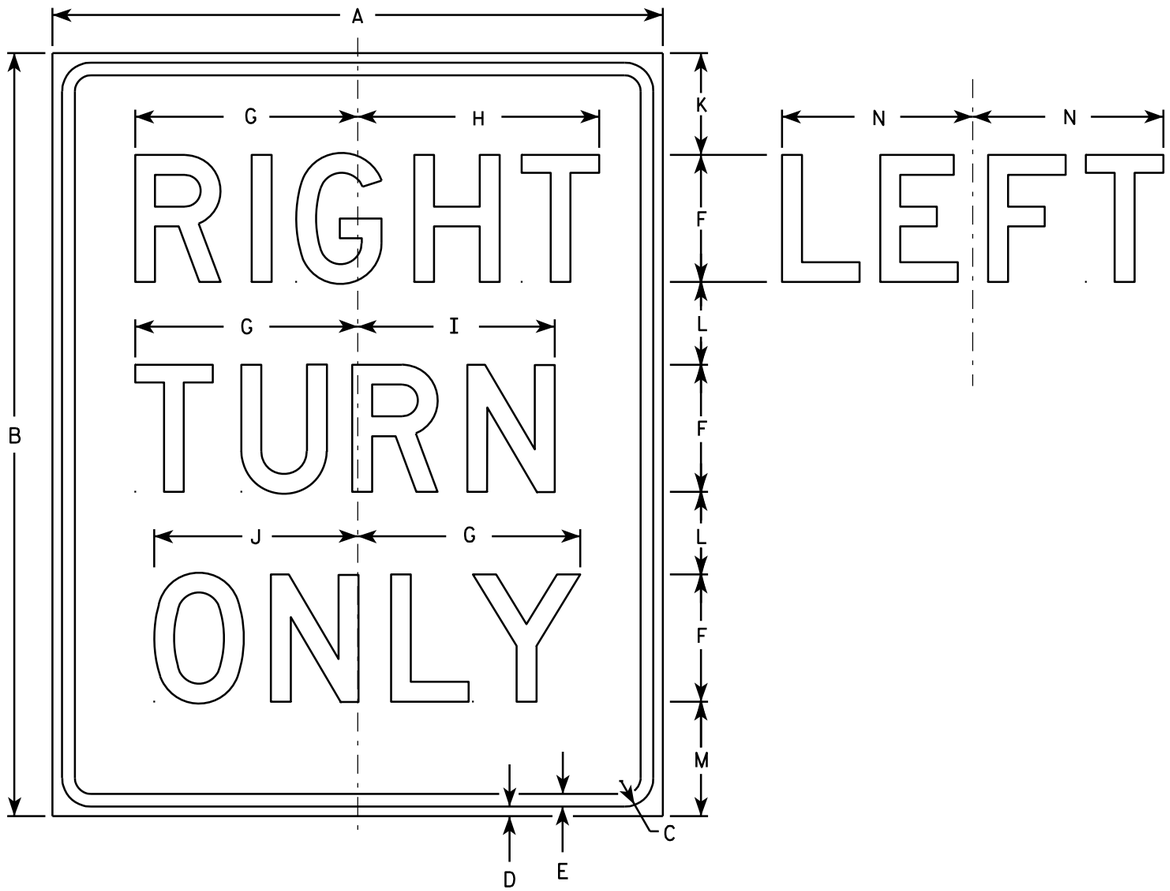
STANDARD SIGN
R3-20L

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: 690 | E



R3-53R

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. R3-53L same as R3-53R except LEFT is substituted for 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																											
2S	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
2M	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
3	24	30	1 1/8	3/8	1/2	5	8 3/4	9 1/2	7 3/4	8	4	3 1/4	4 1/2	7 1/2													5.0
4																											
5																											

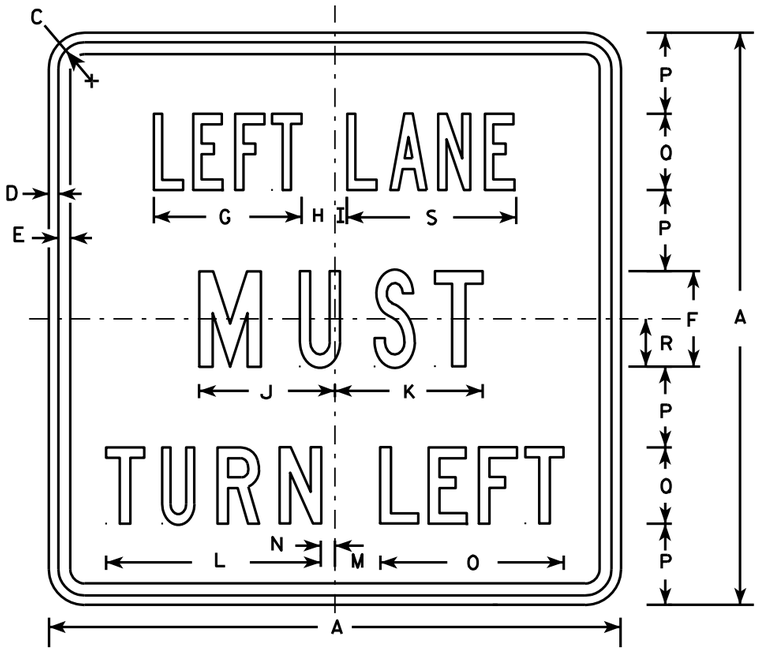
STANDARD SIGN
R3-53

WISCONSIN DEPT OF TRANSPORTATION

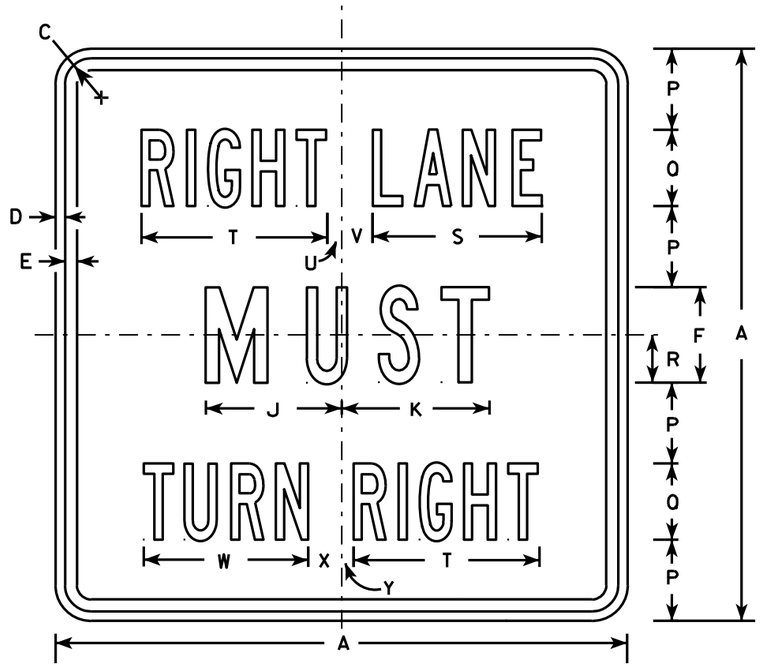
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-53.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 691	E



R3-7L



R3-7R

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 - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

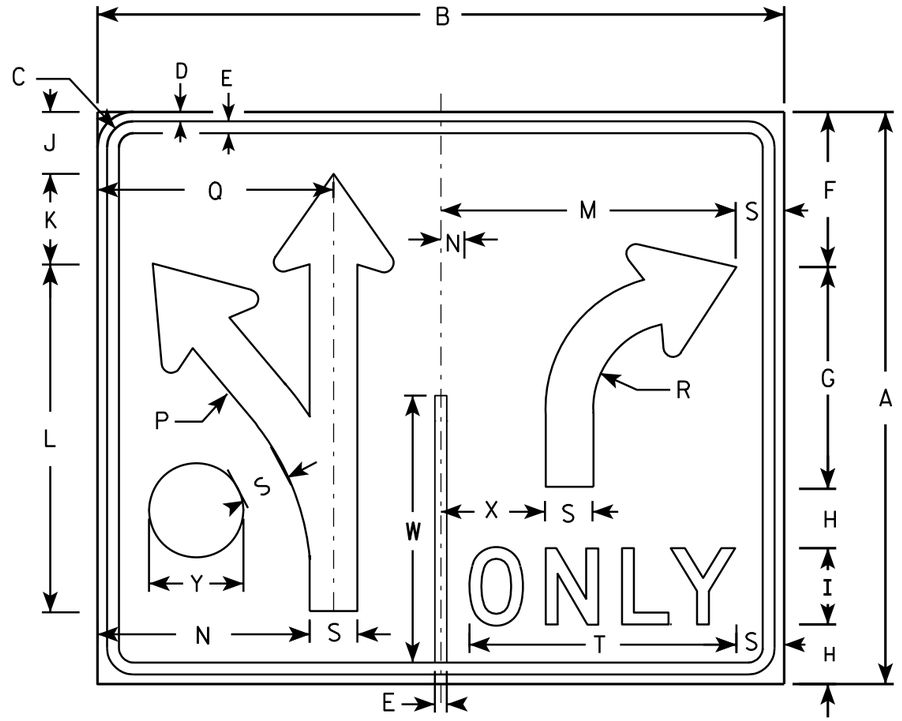
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

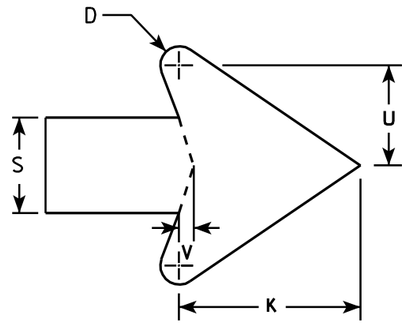
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 692	E



R3-8DD



ARROW DETAIL

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. R3-8B & R3-8C is the same but reversed.

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	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	15 1/2	1 1/4		13 1/4	12 3/8	4 1/2	2 1/2	14	2 5/8	3/8	14	5 1/4	4 1/4		7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	15 1/2	1 1/4		13 1/4	12 3/8	4 1/2	2 1/2	14	2 5/8	3/8	14	5 1/4	4 1/4		7.5
3																											

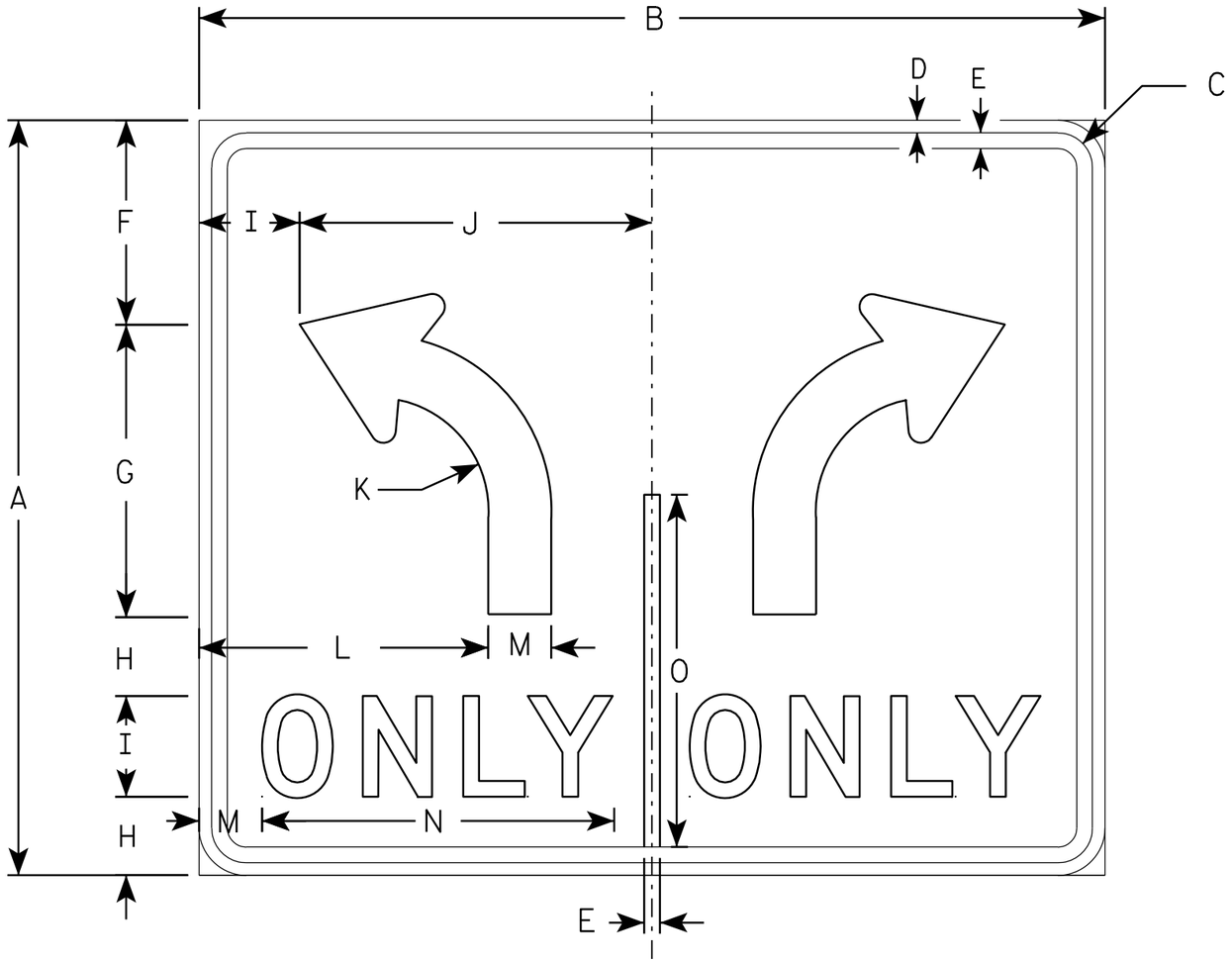
STANDARD SIGN
R3-8DD

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8DD.2

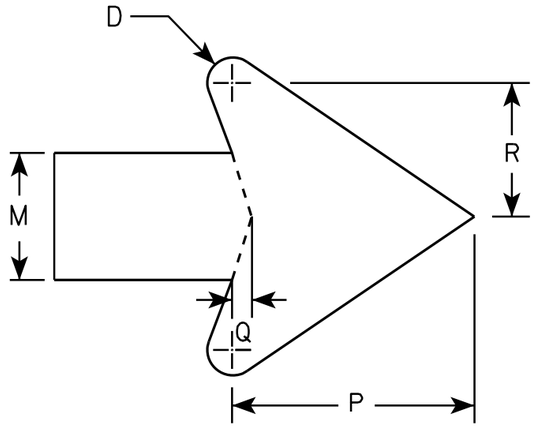
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 693	E



R3-8F

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.



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	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	14	4 1/2	11 1/2	2 1/2	14	14	4 3/4	3/8	2 5/8									7.5
2M	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	14	4 1/2	11 1/2	2 1/2	14	14	4 3/4	3/8	2 5/8									7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	21	7 1/4	17 1/4	3 3/4	20 5/8	22 3/8	7 1/8	5/8	4									18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	21	7 1/4	17 1/4	3 3/4	20 5/8	22 3/8	7 1/8	5/8	4									18.0

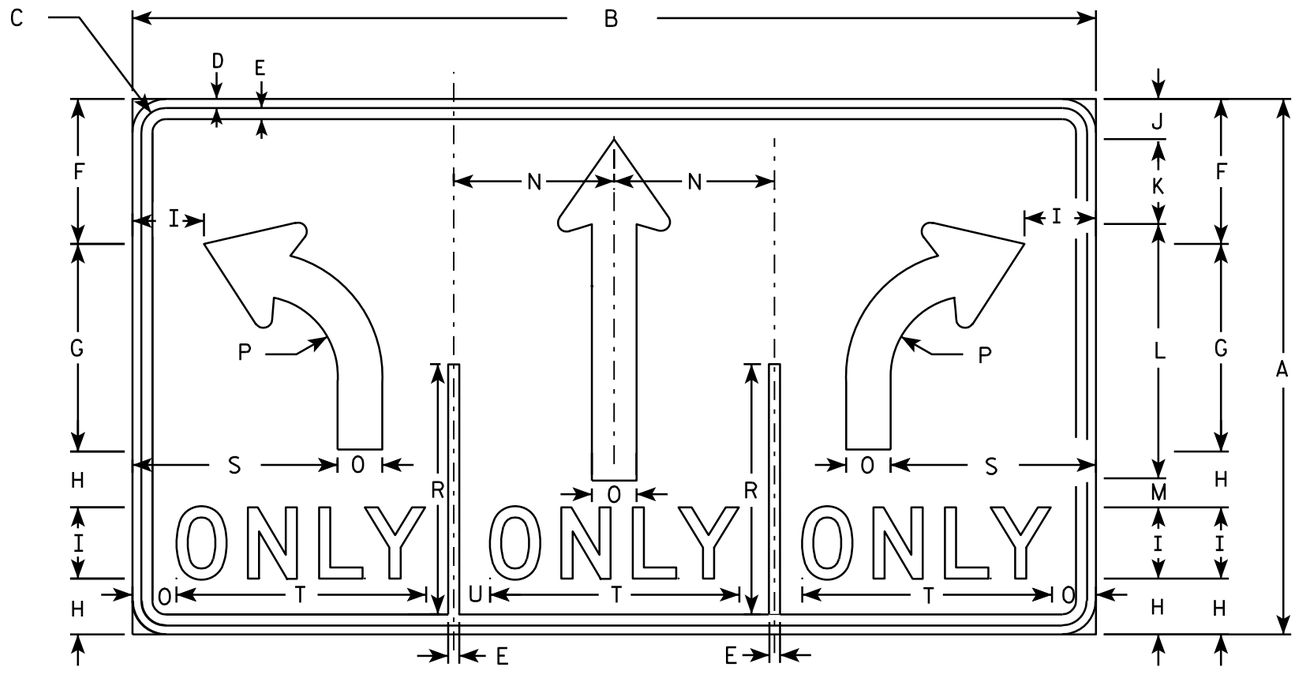
STANDARD SIGN
R3-8F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8F.2

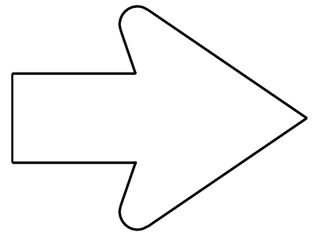
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 694	E



R3-8W

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.



SEE R3-8 FOR 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																											
2S	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
3																											
4	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 3/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0
5	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 7/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0

STANDARD SIGN
R3-8W

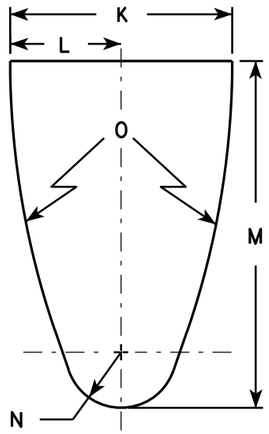
WISCONSIN DEPT OF TRANSPORTATION

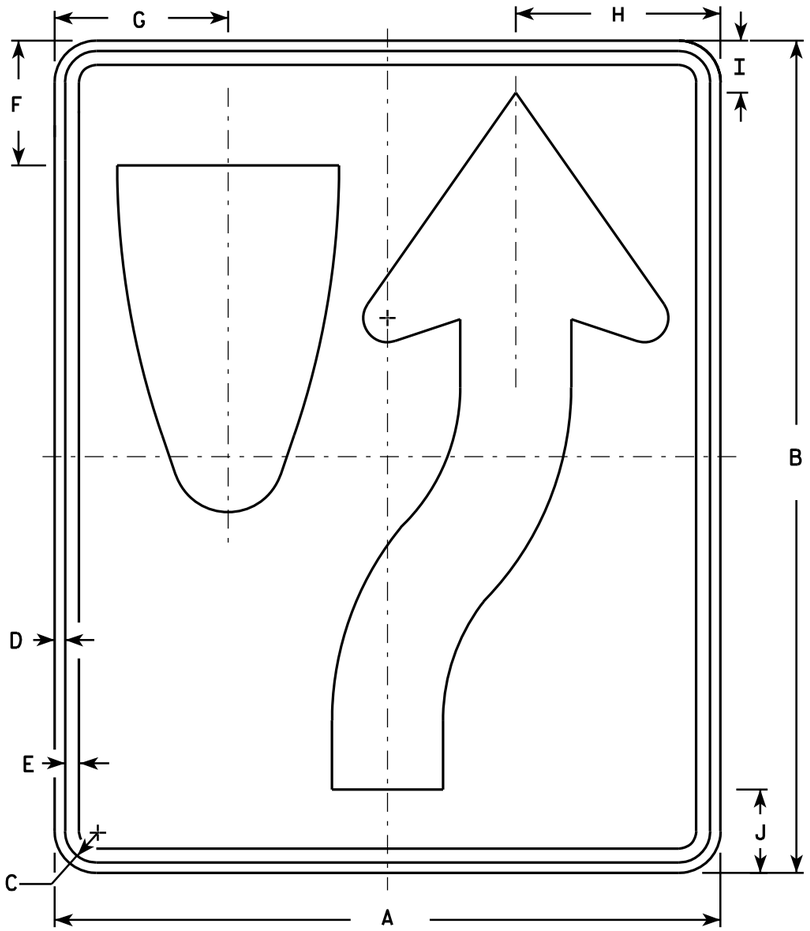
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8W.4

PROJECT NO:

SHEET NO: 695 E

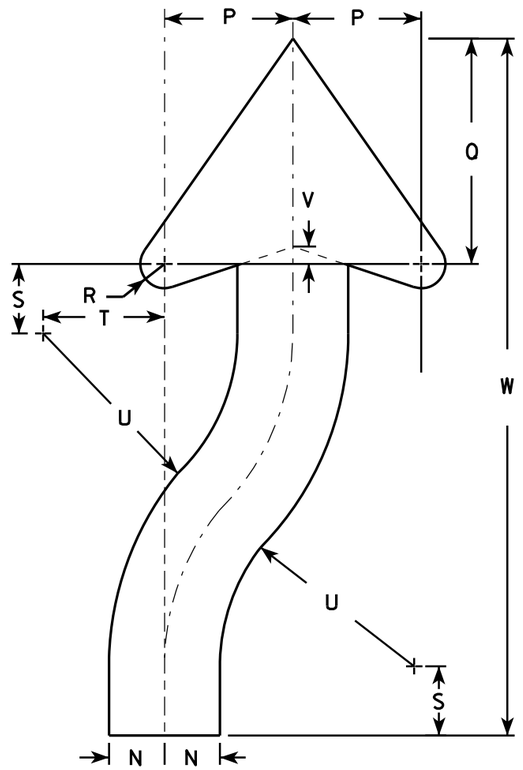




R4-7

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

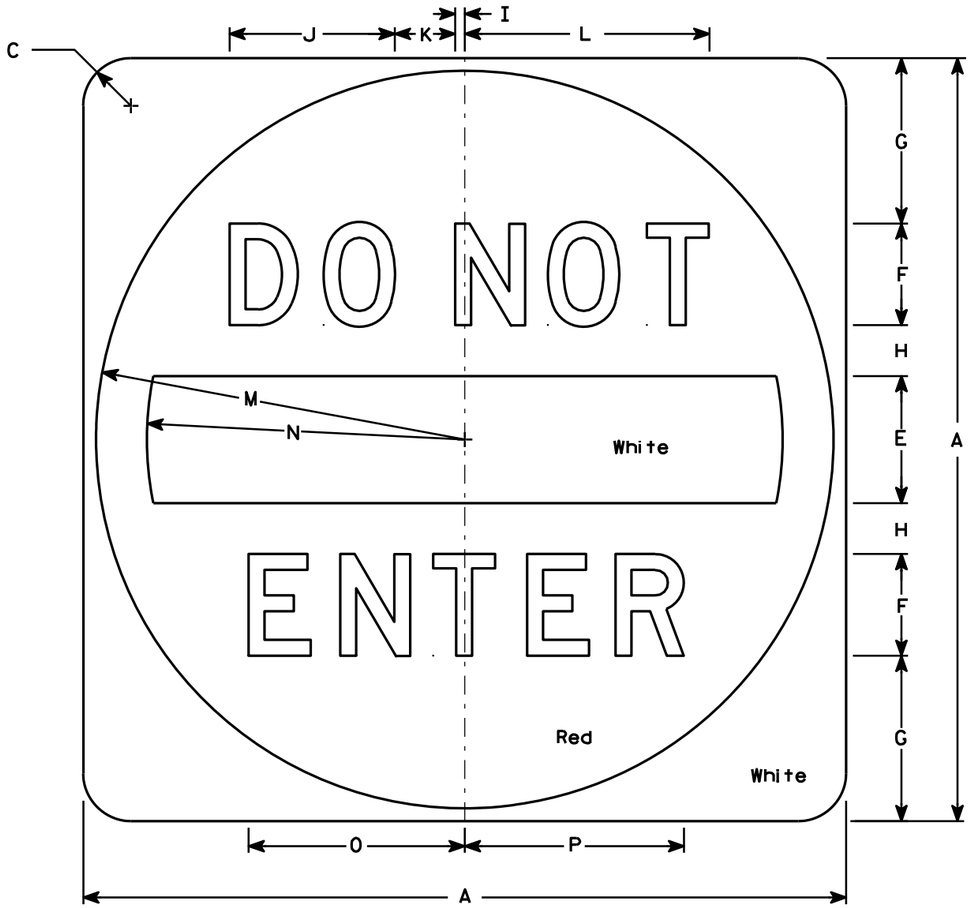
STANDARD SIGN
R4-7 & R4-8

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: 696	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

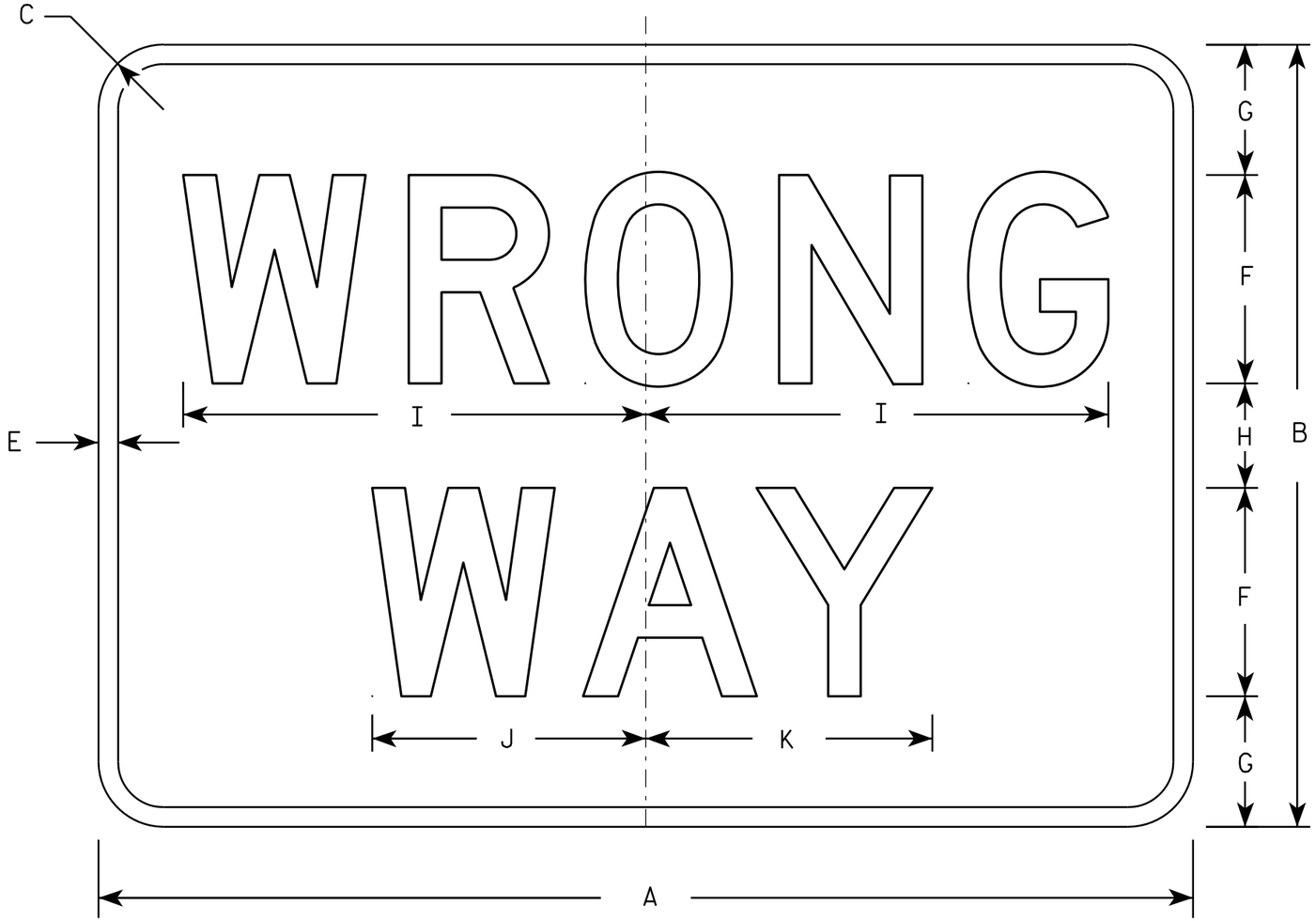
STANDARD SIGN
R5-1

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: 697 | 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

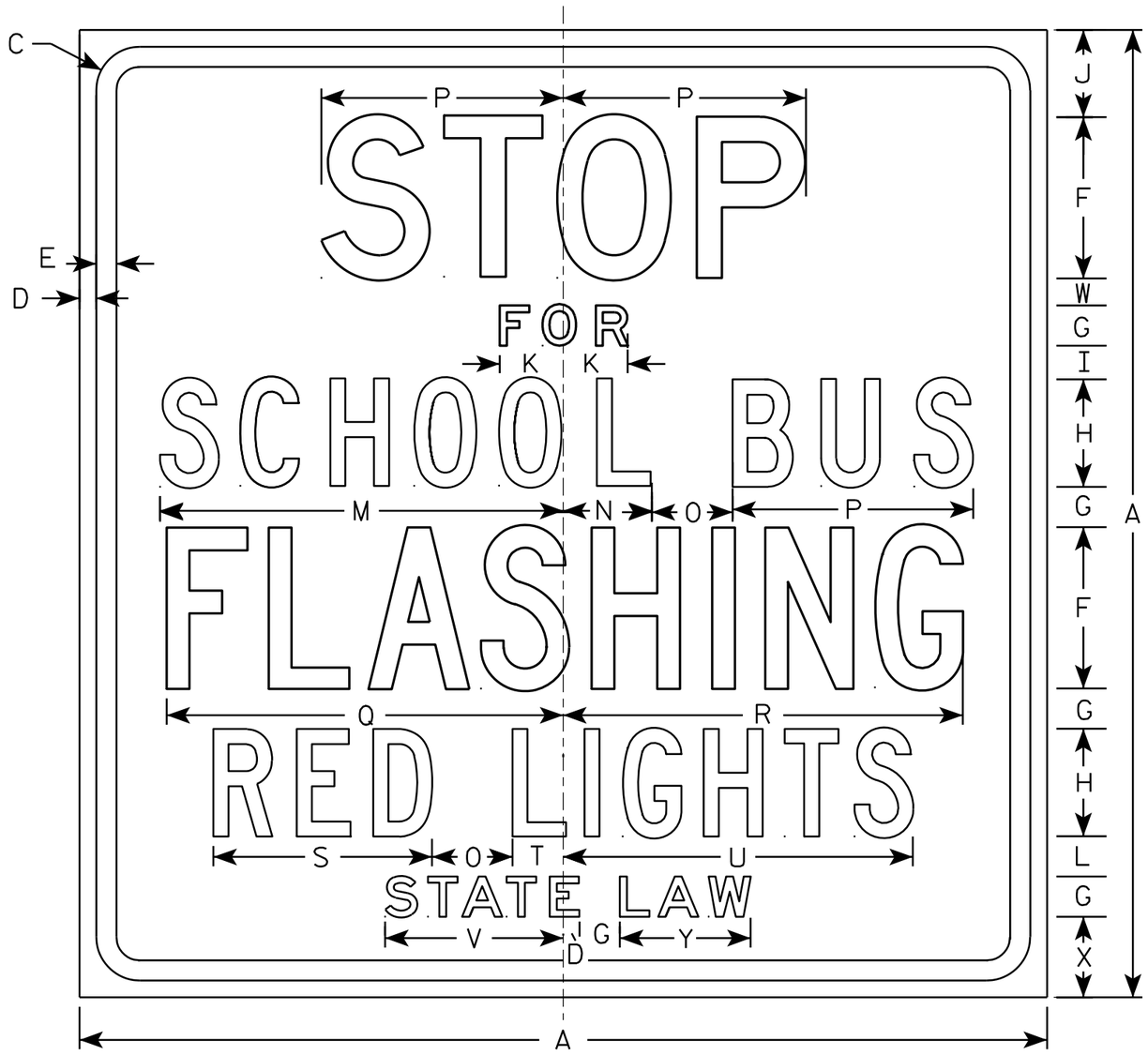
STANDARD SIGN
R5-1A

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: 698	E



R59-51

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 - 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
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

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																											
2S	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/30/11 PLATE NO. R59-51.10

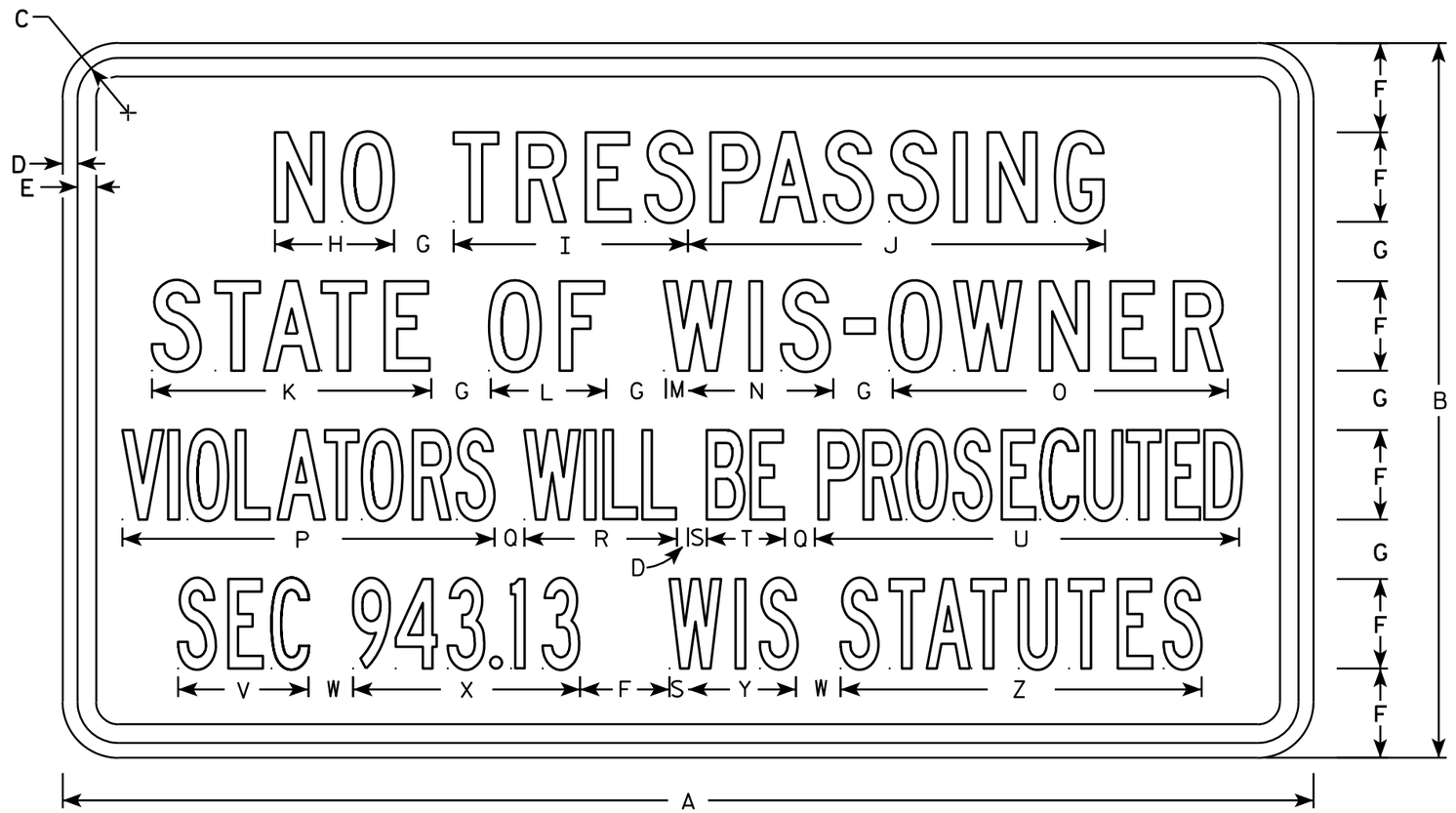
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 699 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R5951.DGN 30-MAR-2011 09:59 PLOT DATE : 30-MAR-2011 09:59 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.287650:1.000000

WISDOT/CADDS SHEET 42

7

7



R5-98

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 - 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 C
   Lines 3 and 4 are Series B

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	42	24	1 3/8	1/2	5/8	3	2	4	7 7/8	14	9 3/8	3 7/8	3/4	4 7/8	11 1/4	12 1/2	1	5 1/8	5/8	2 5/8	14 1/4	4 3/8	1 1/2	7 5/8	3 5/8	12 1/8	7.00
2M	42	24	1 3/8	1/2	5/8	3	2	4	7 7/8	14	9 3/8	3 7/8	3/4	4 7/8	11 1/4	12 1/2	1	5 1/8	5/8	2 5/8	14 1/4	4 3/8	1 1/2	7 5/8	3 5/8	12 1/8	7.00
3																											
4																											
5																											

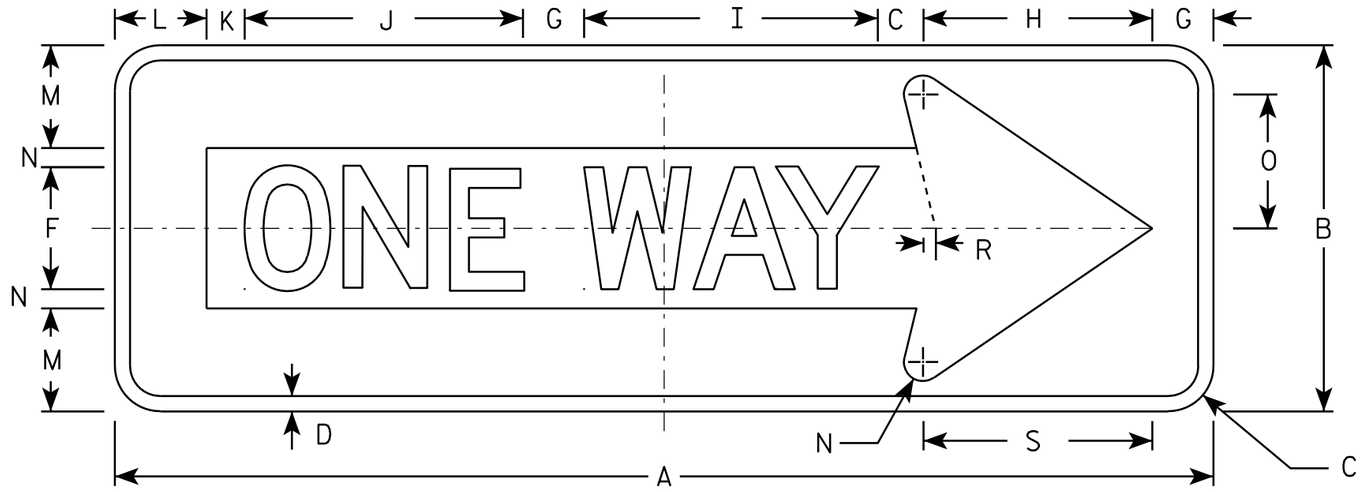
STANDARD SIGN
R5-98

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-98.5

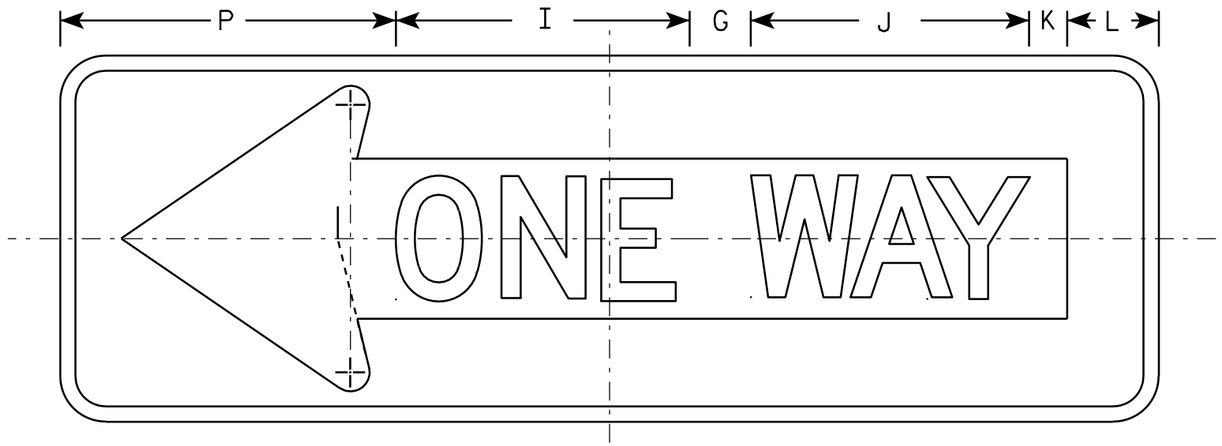
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 700	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
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.



R6-1L

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	36	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

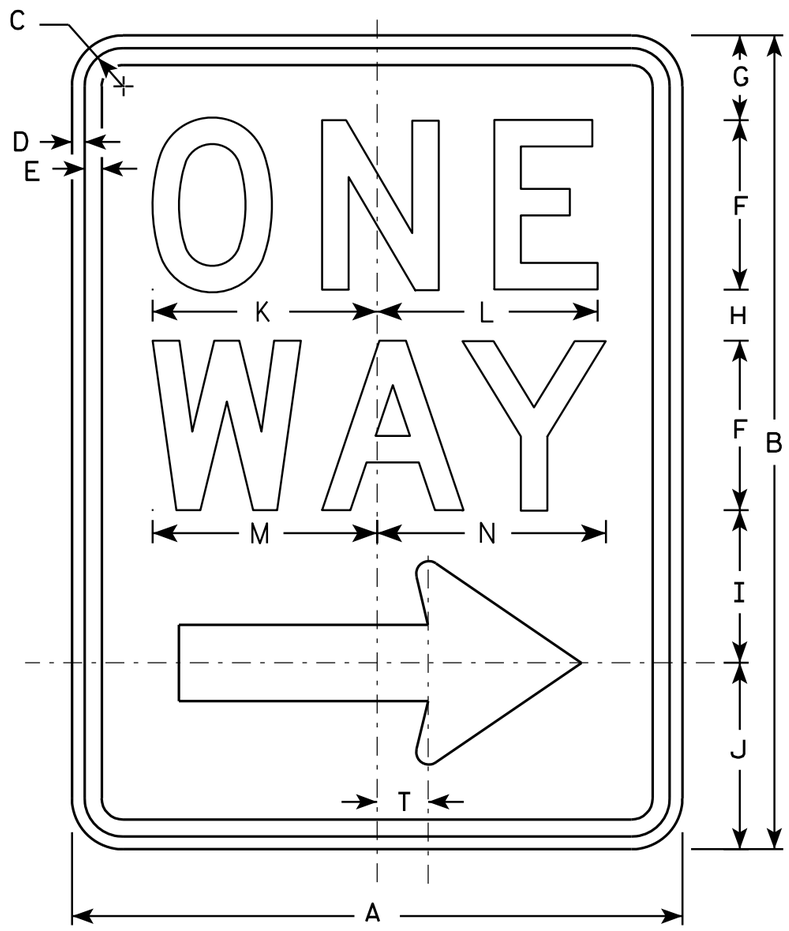
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

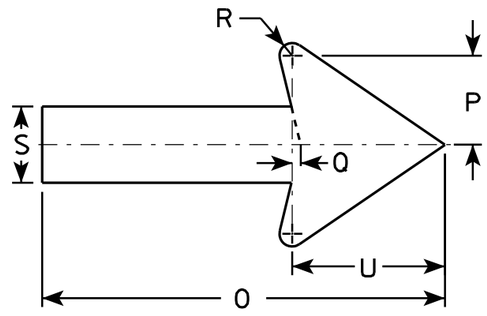
SHEET NO: 701 E



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	Q	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																										

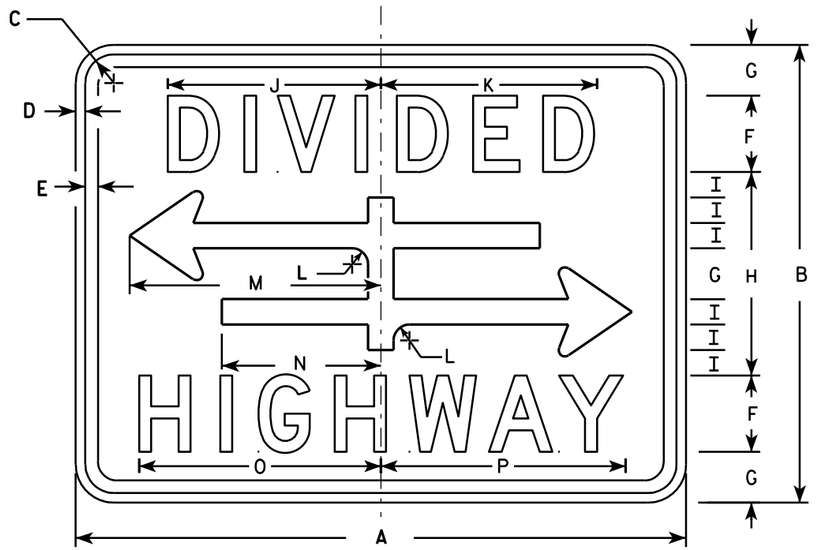
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

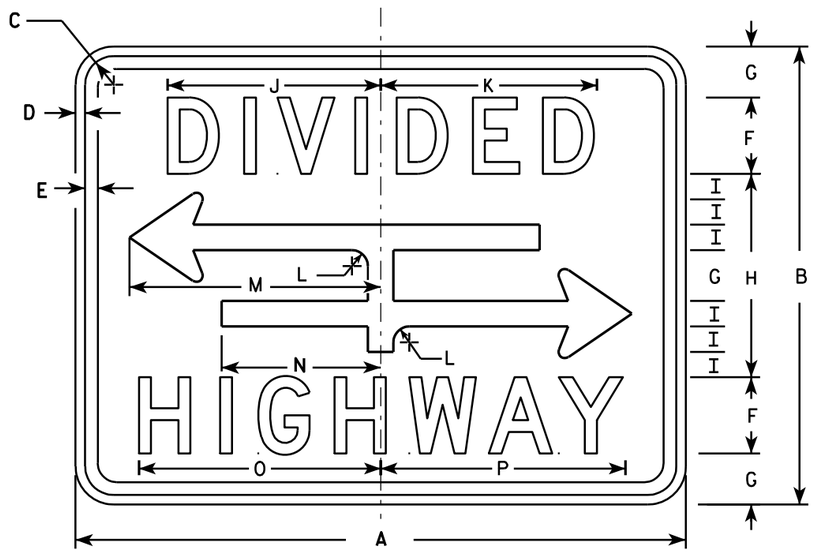
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 702	E



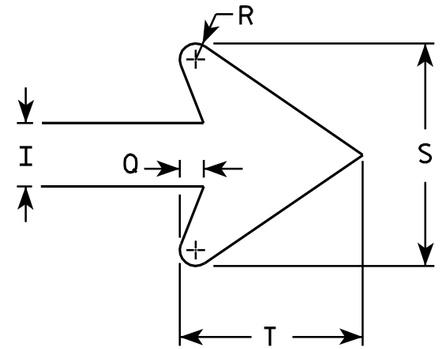
R6-3

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

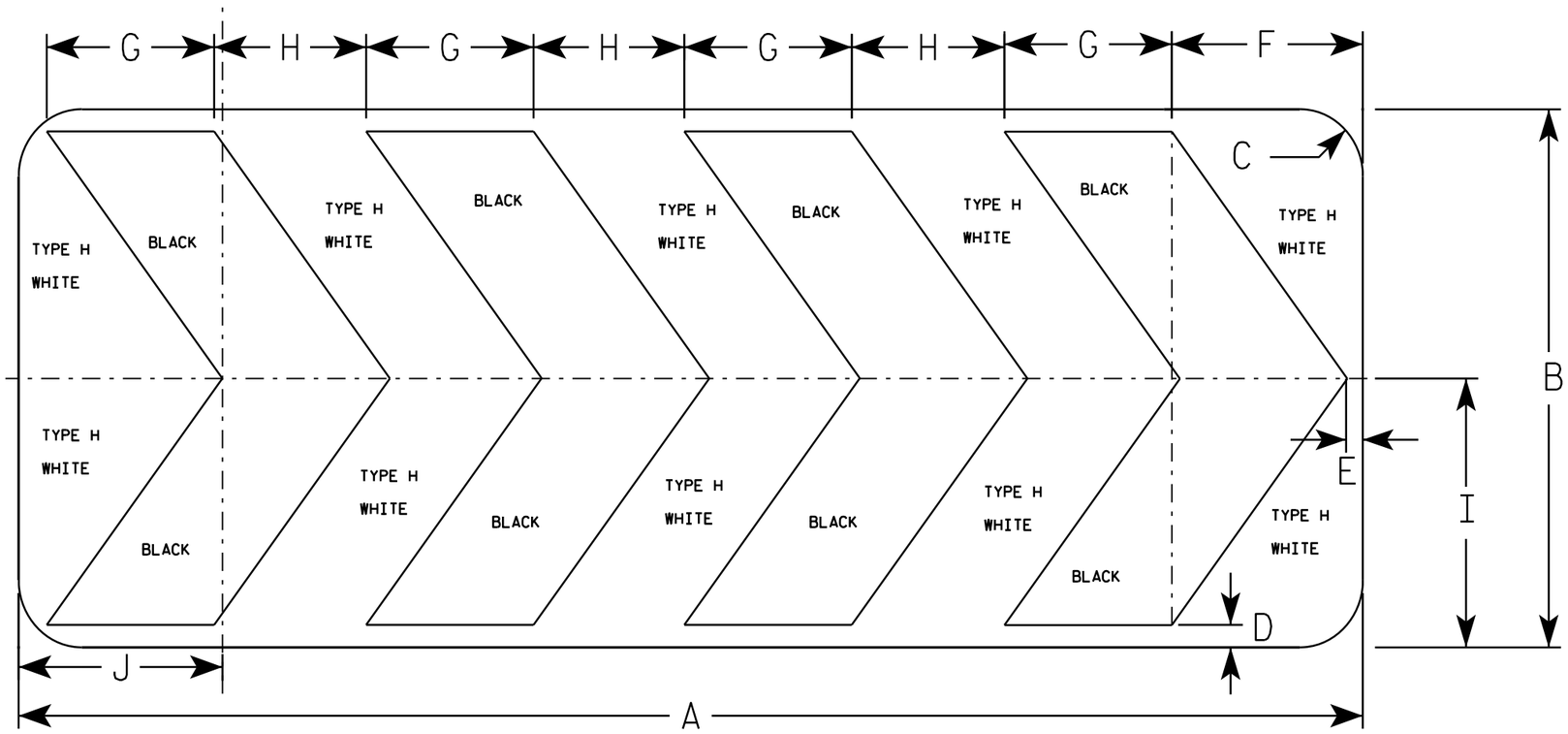
DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

SHEET NO: 703 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 - WHITE
   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.



R6-4B

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	24	2 1/4	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	2 1/4	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

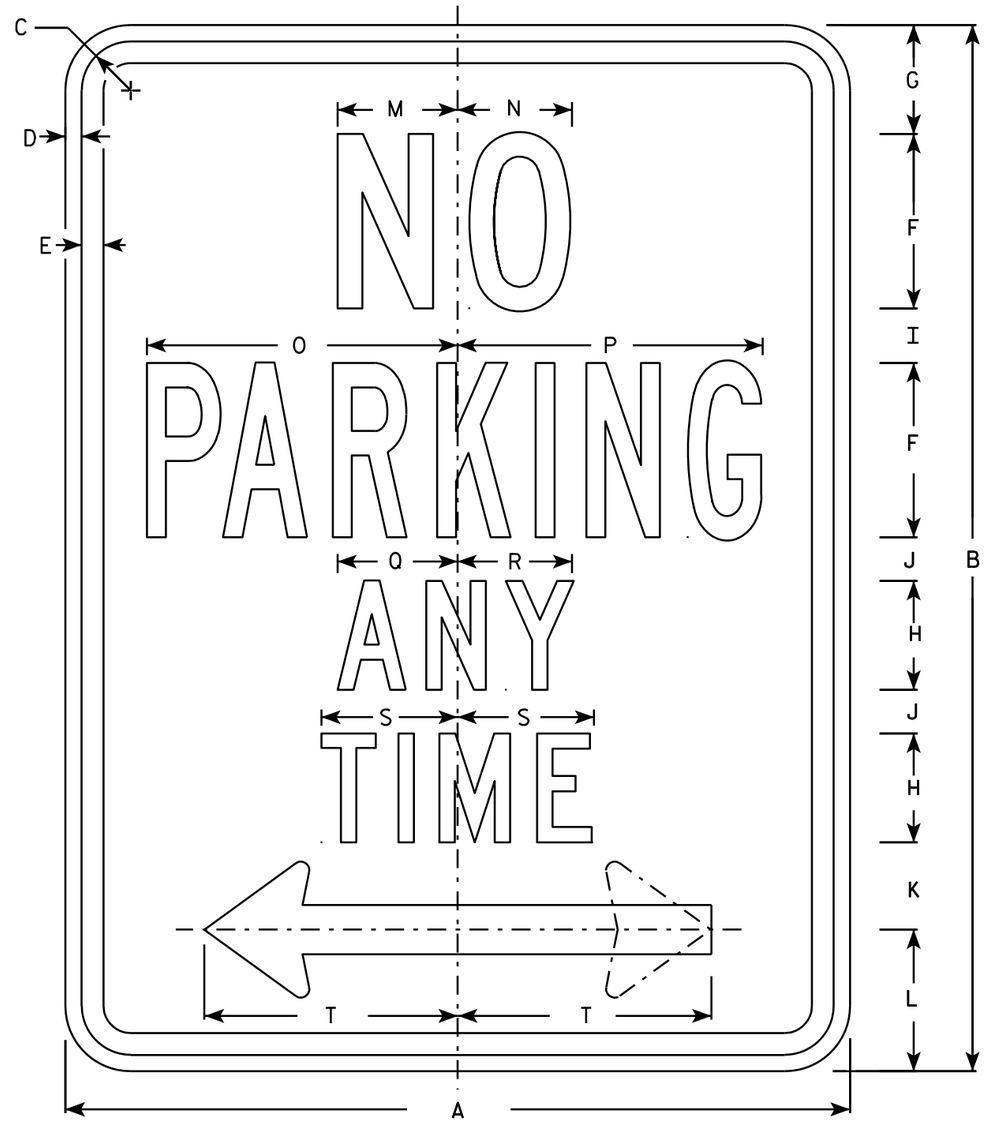
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/03/11 PLATE NO. R6-4B.2

PROJECT NO:

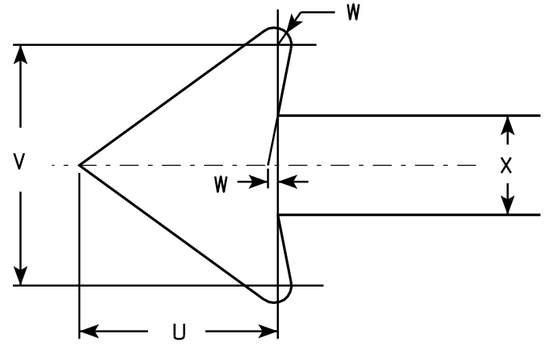
SHEET NO: 704 E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

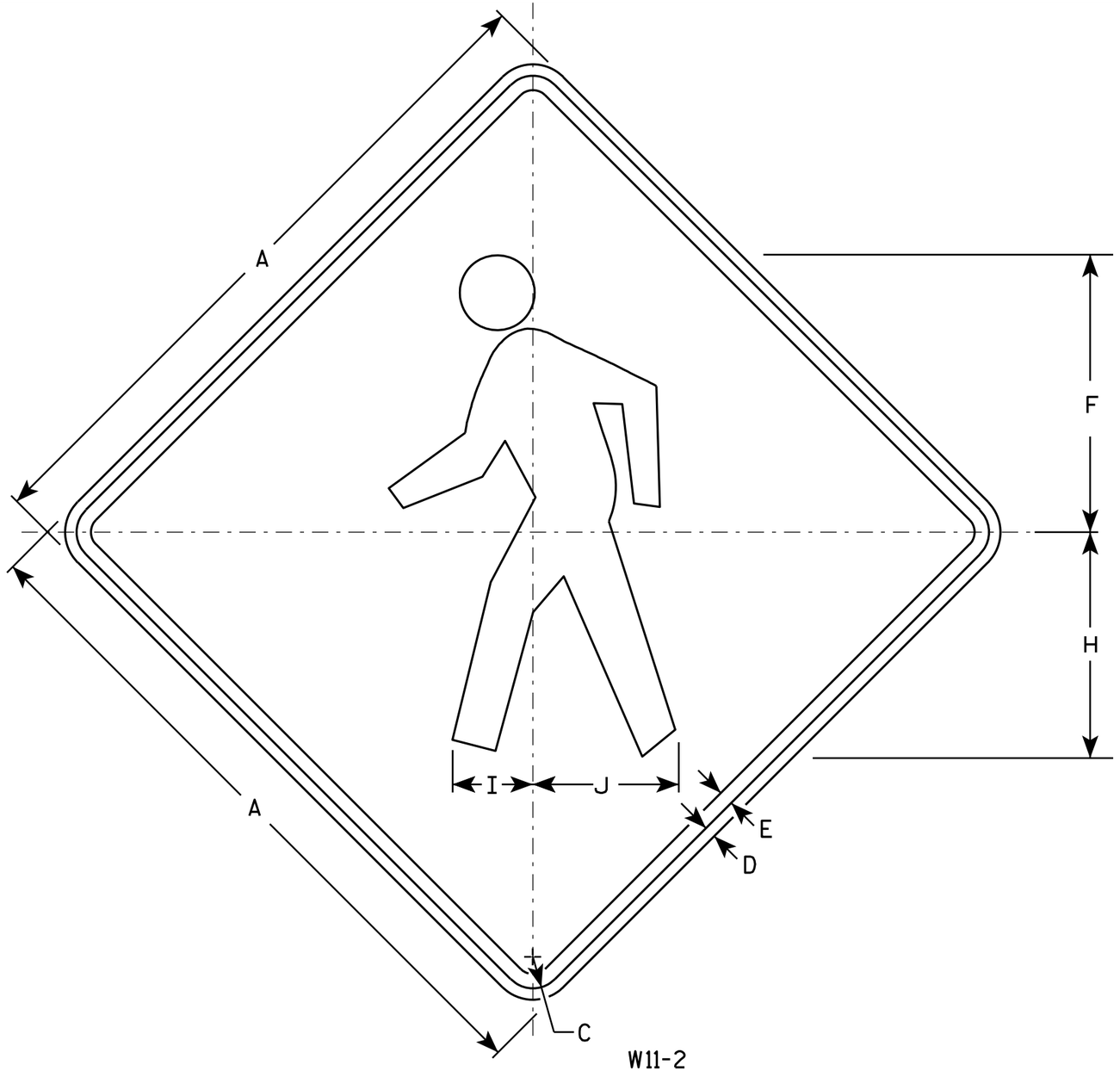
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 705	E



W11-2

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. 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	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

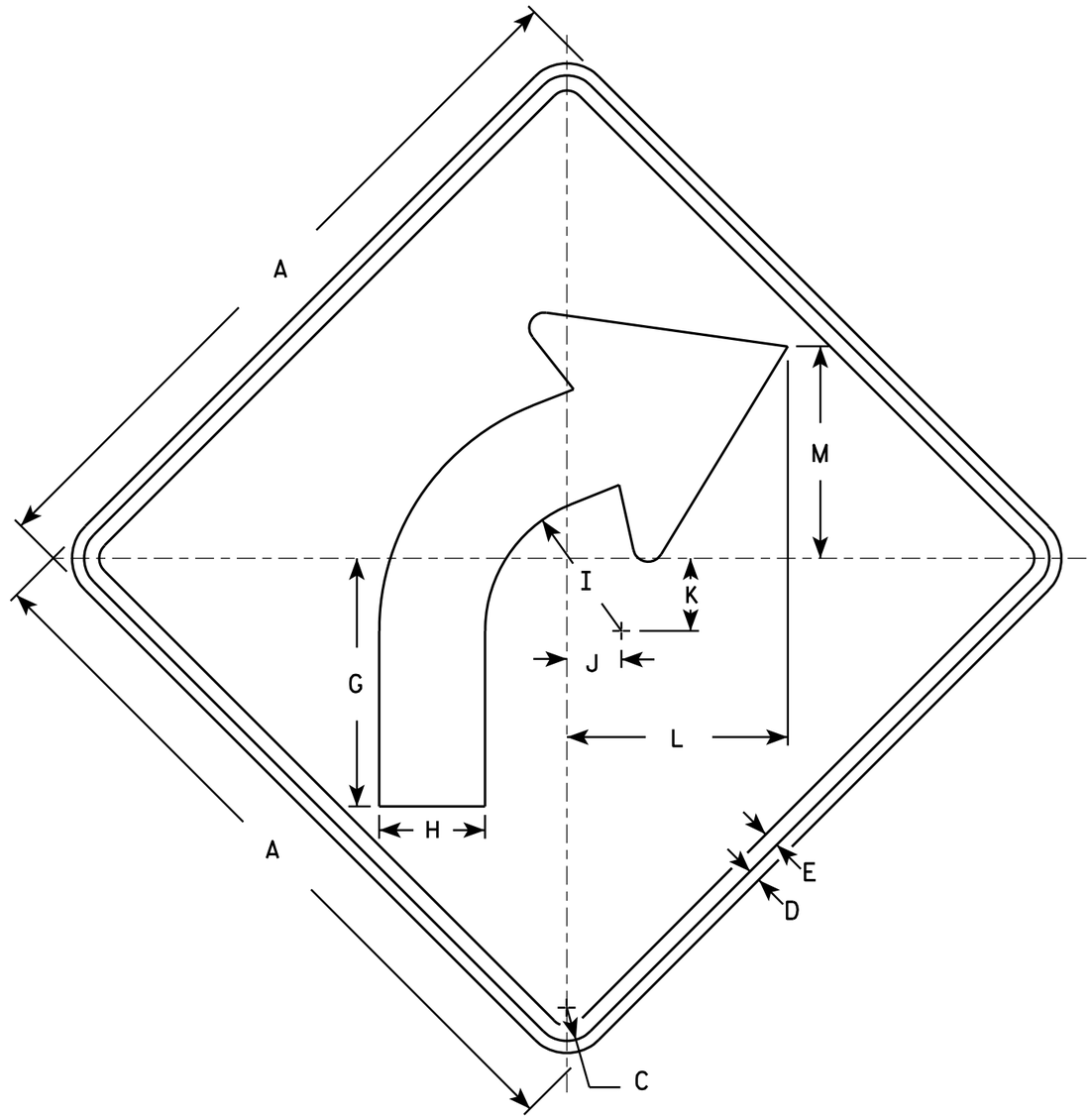
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

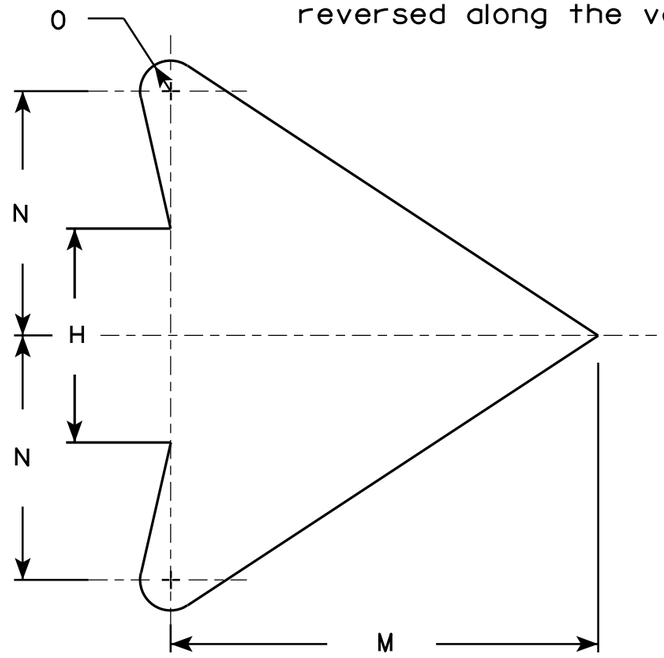
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 706	E

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

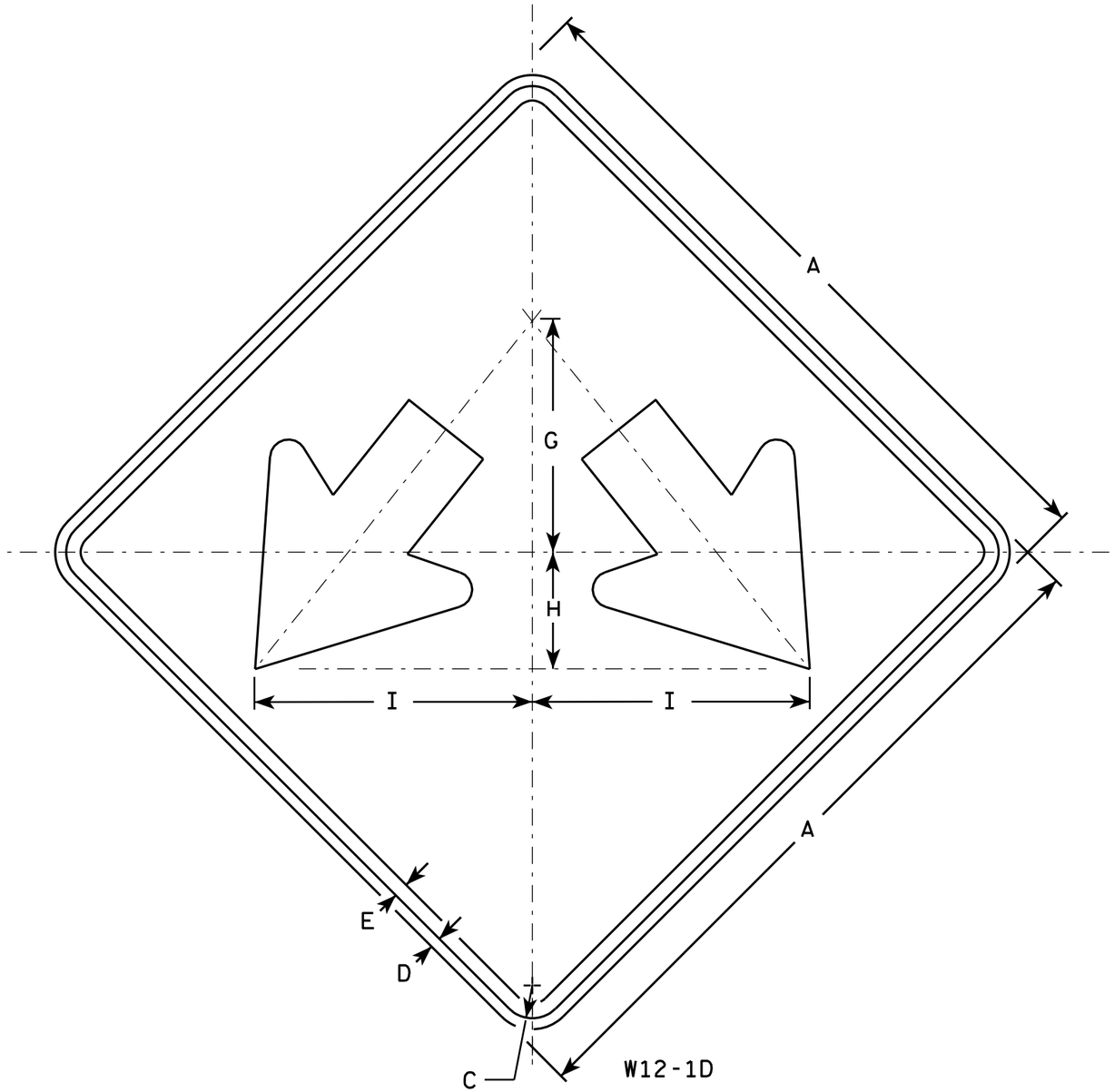
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

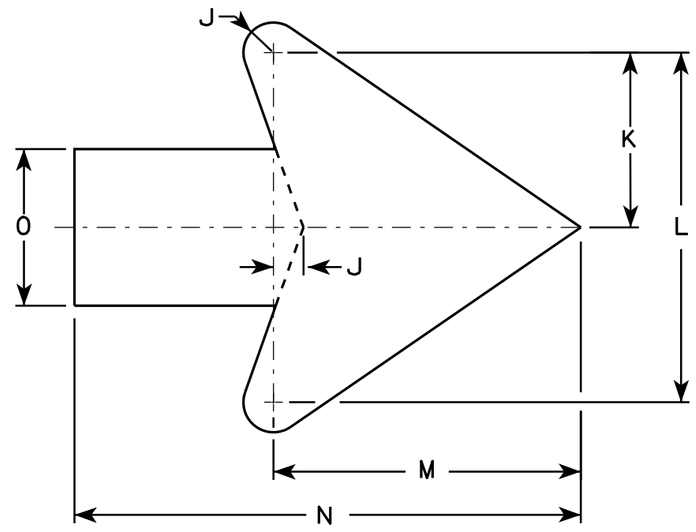
DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 707	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

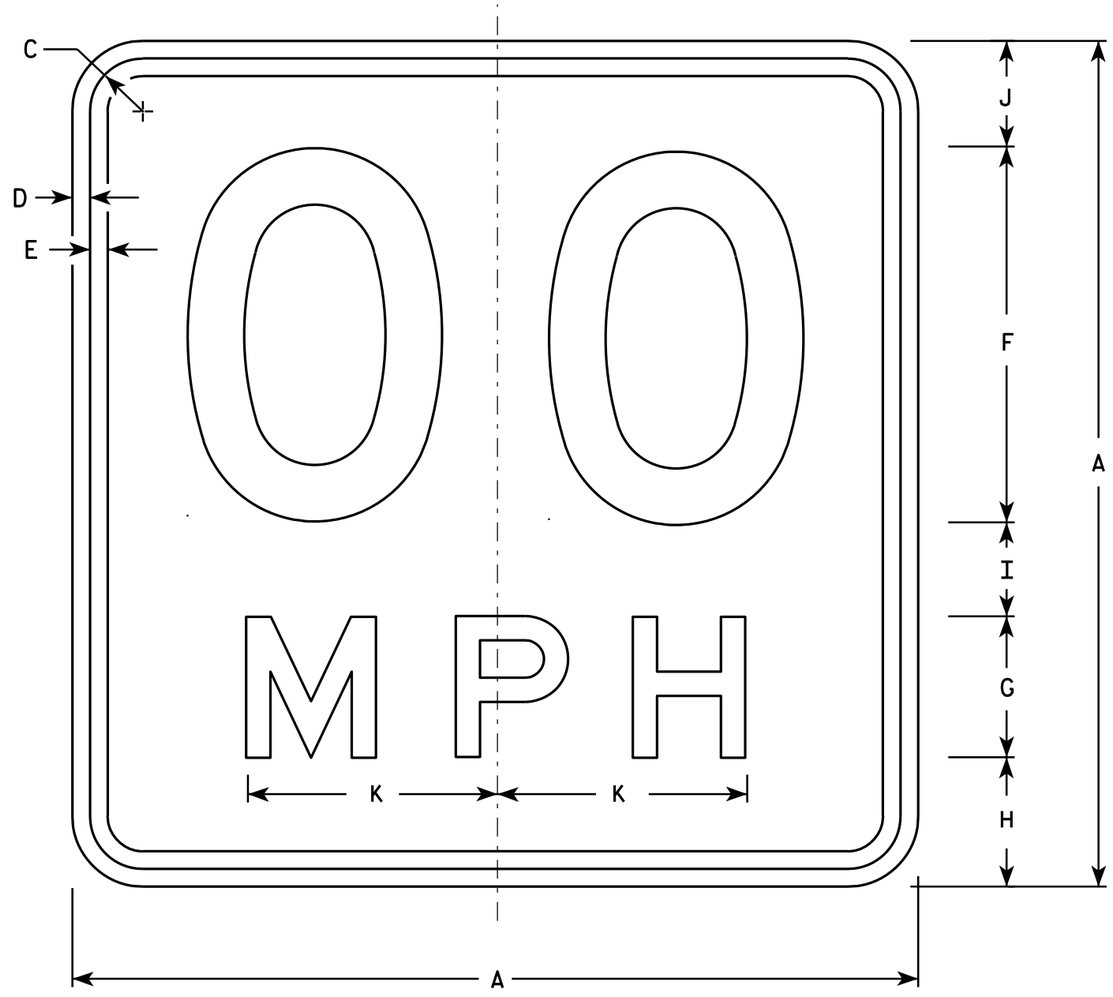
STANDARD SIGN
W12-1D

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: 708	E



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

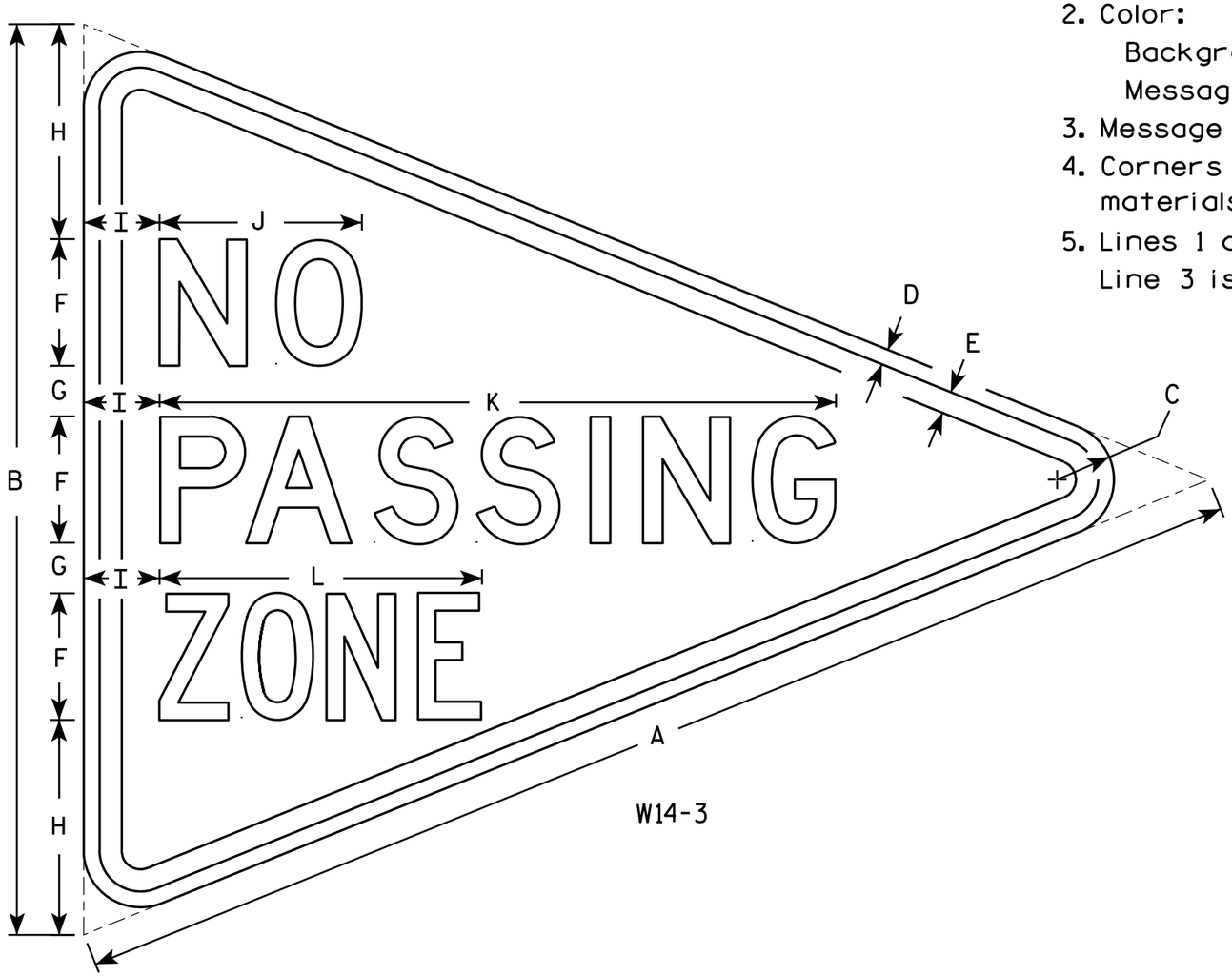
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 709 | 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	O	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																											

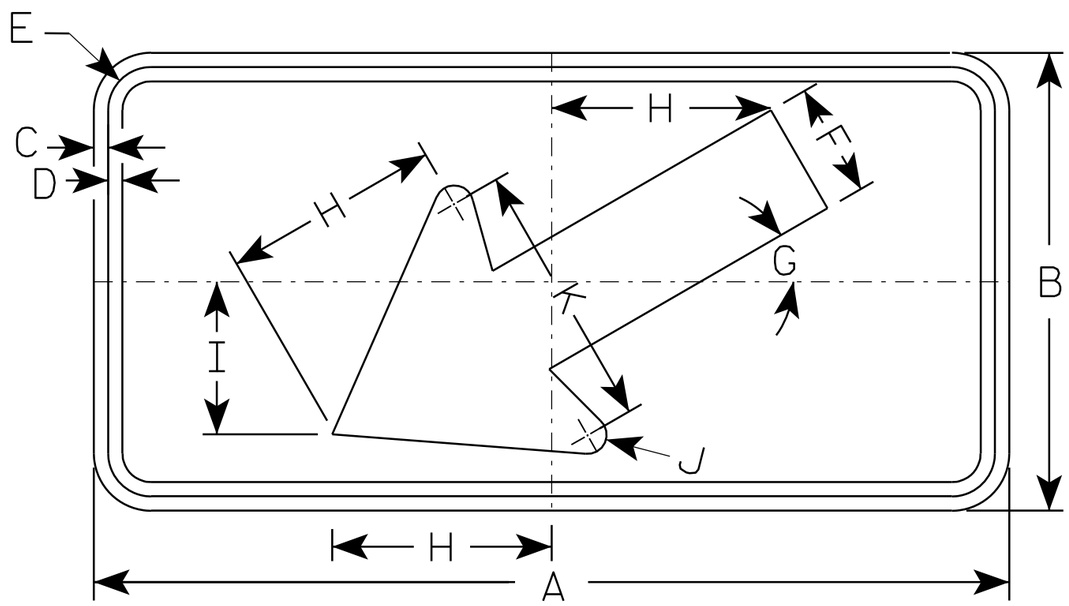
STANDARD SIGN
W14-3

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: 710	E



W16-7L

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. W16-7R is the same as W16-L 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																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4																											8
5																											8

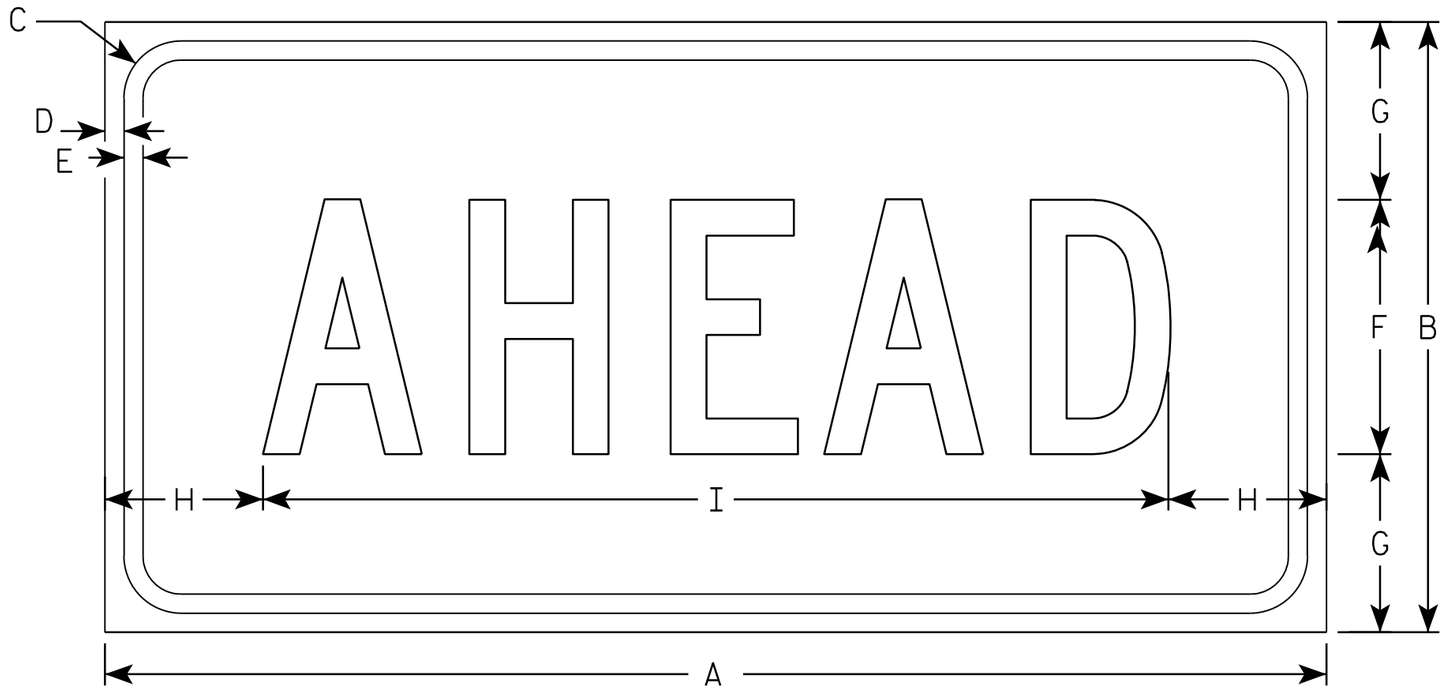
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. W16-7.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 711	E



W16-9P

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

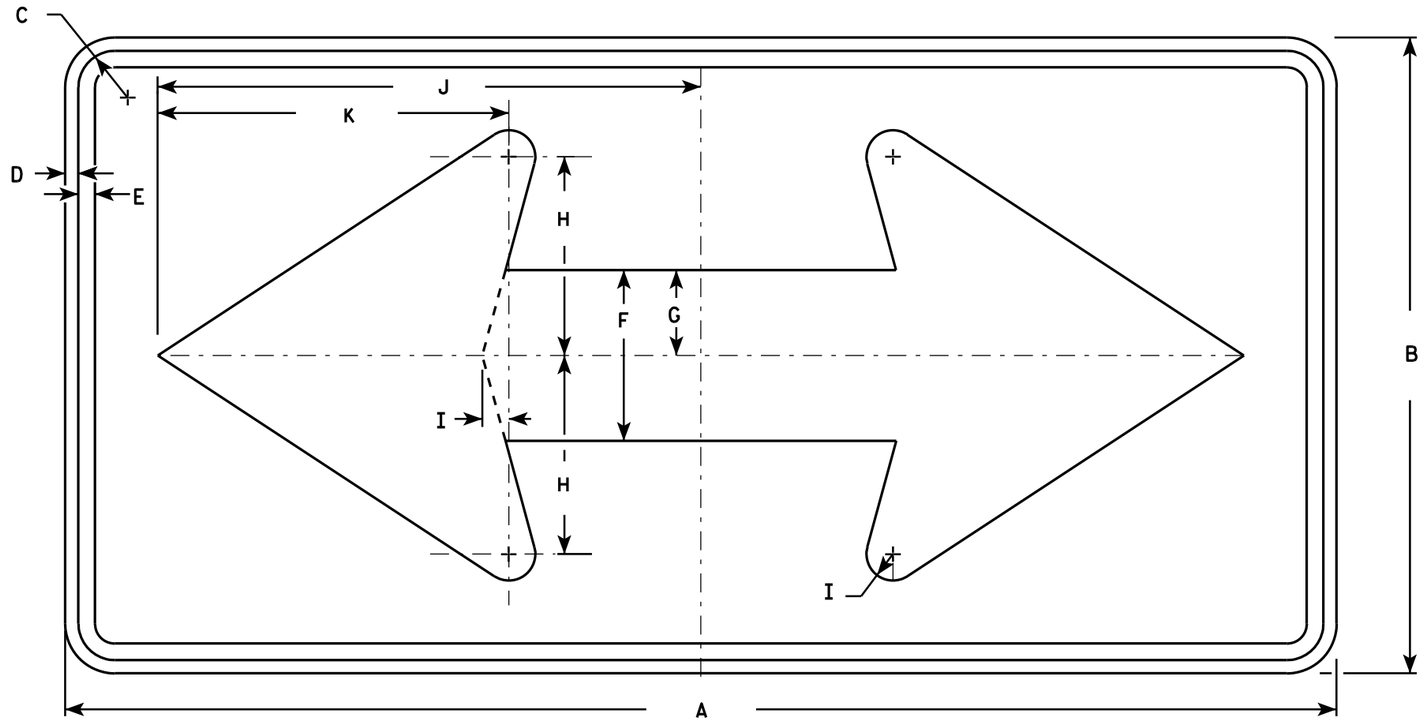
STANDARD SIGN
W16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/28/10 PLATE NO. W16-9P.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 712 | E



W1-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - 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	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
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	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

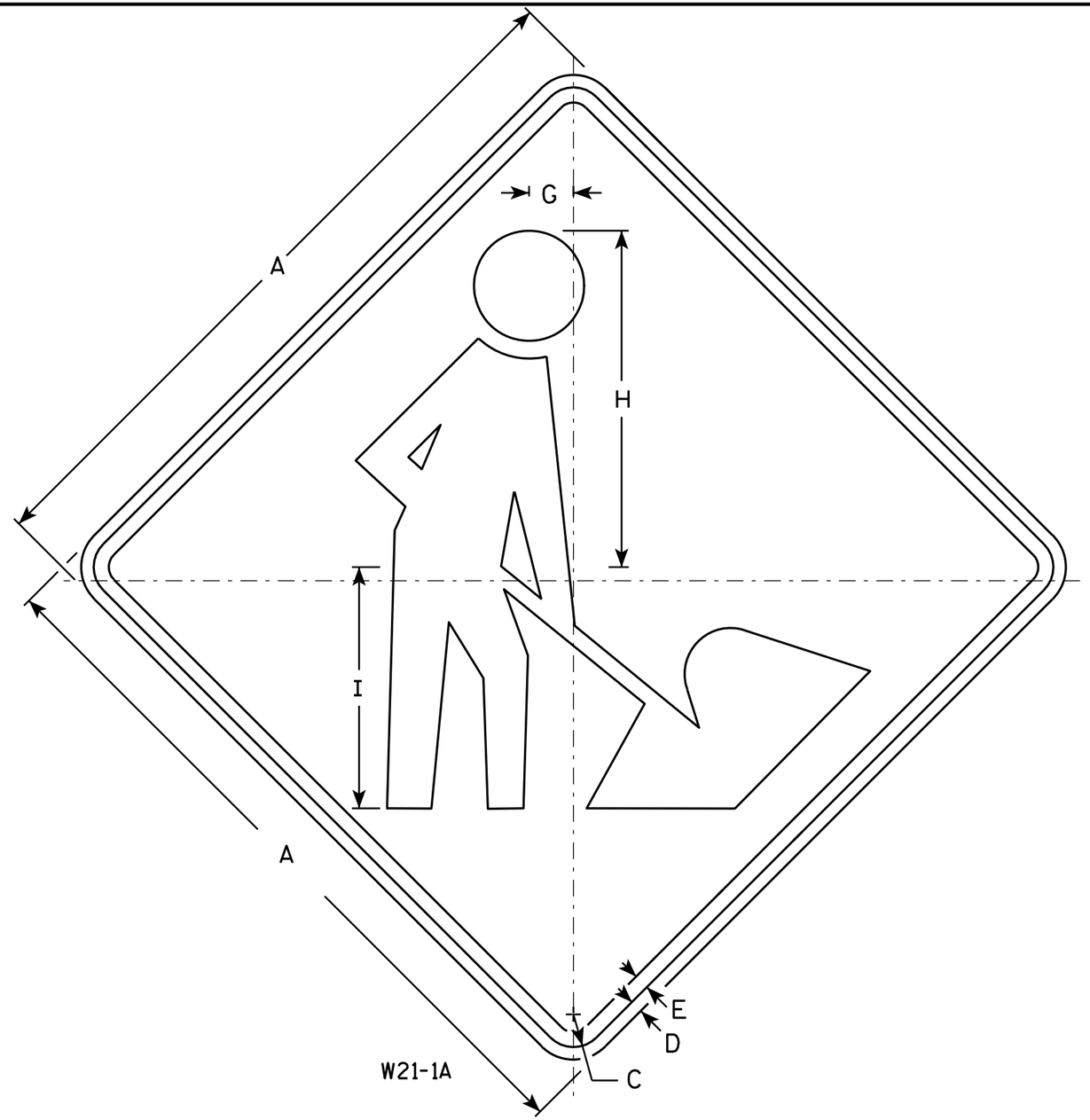
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 713 | 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 - 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	30		1 3/8	1/2	5/8		1 7/8	14	10																		6.25
2S	36		1 5/8	5/8	3/4		2 1/4	16 7/8	12																		9.00
2M	36		1 5/8	5/8	3/4		2 1/4	16 7/8	12																		9.00
3	36		1 5/8	5/8	3/4		2 1/4	16 7/8	12																		9.00
4	36		1 5/8	5/8	3/4		2 1/4	16 7/8	12																		9.00
5	48		2 1/4	3/4	1		3	22 3/8	16																		16.00

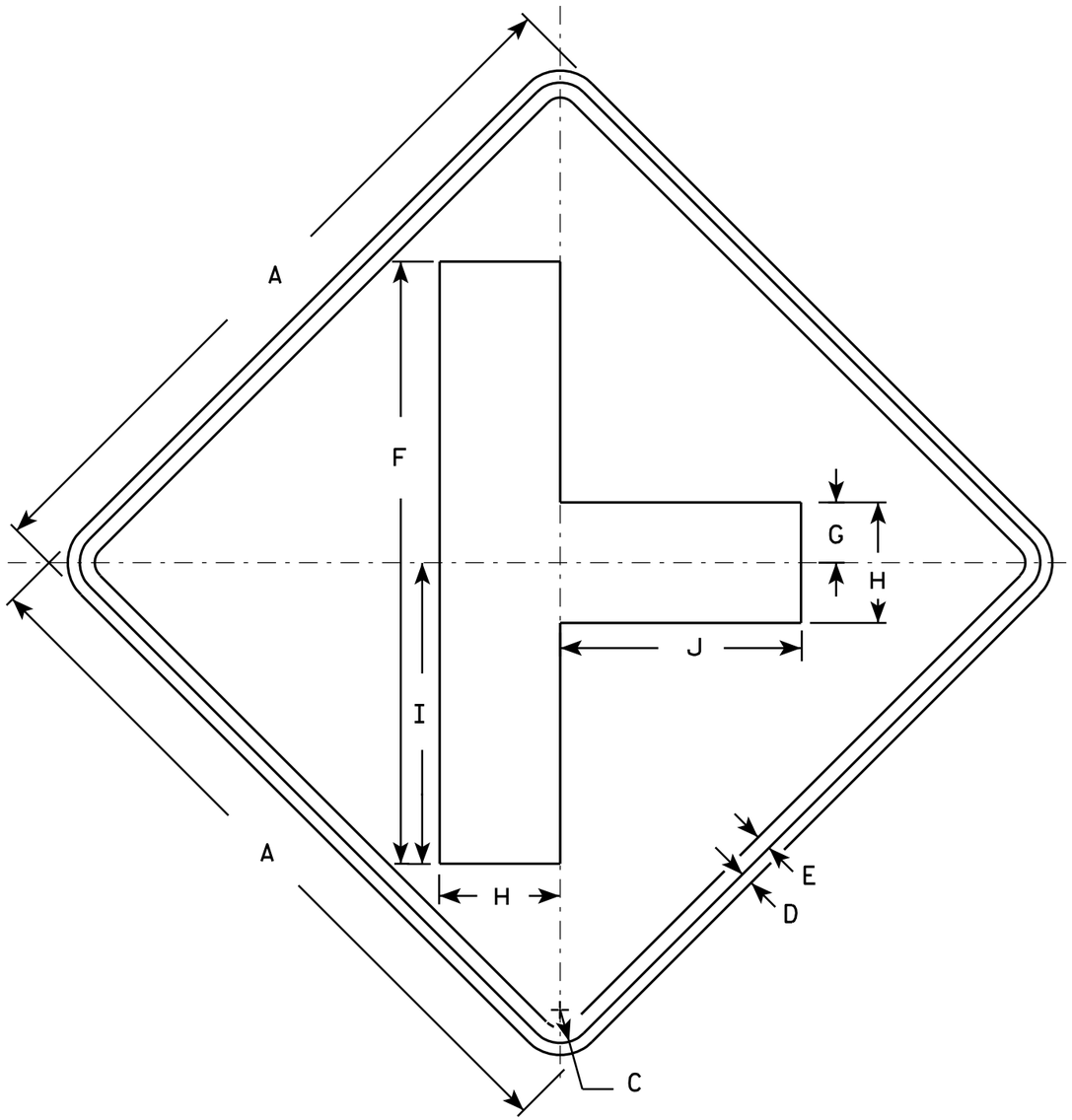
STANDARD SIGN
W21-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W21-1A.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 714	E



W2-2

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. 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	20	2	4	10	8																	4.0
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

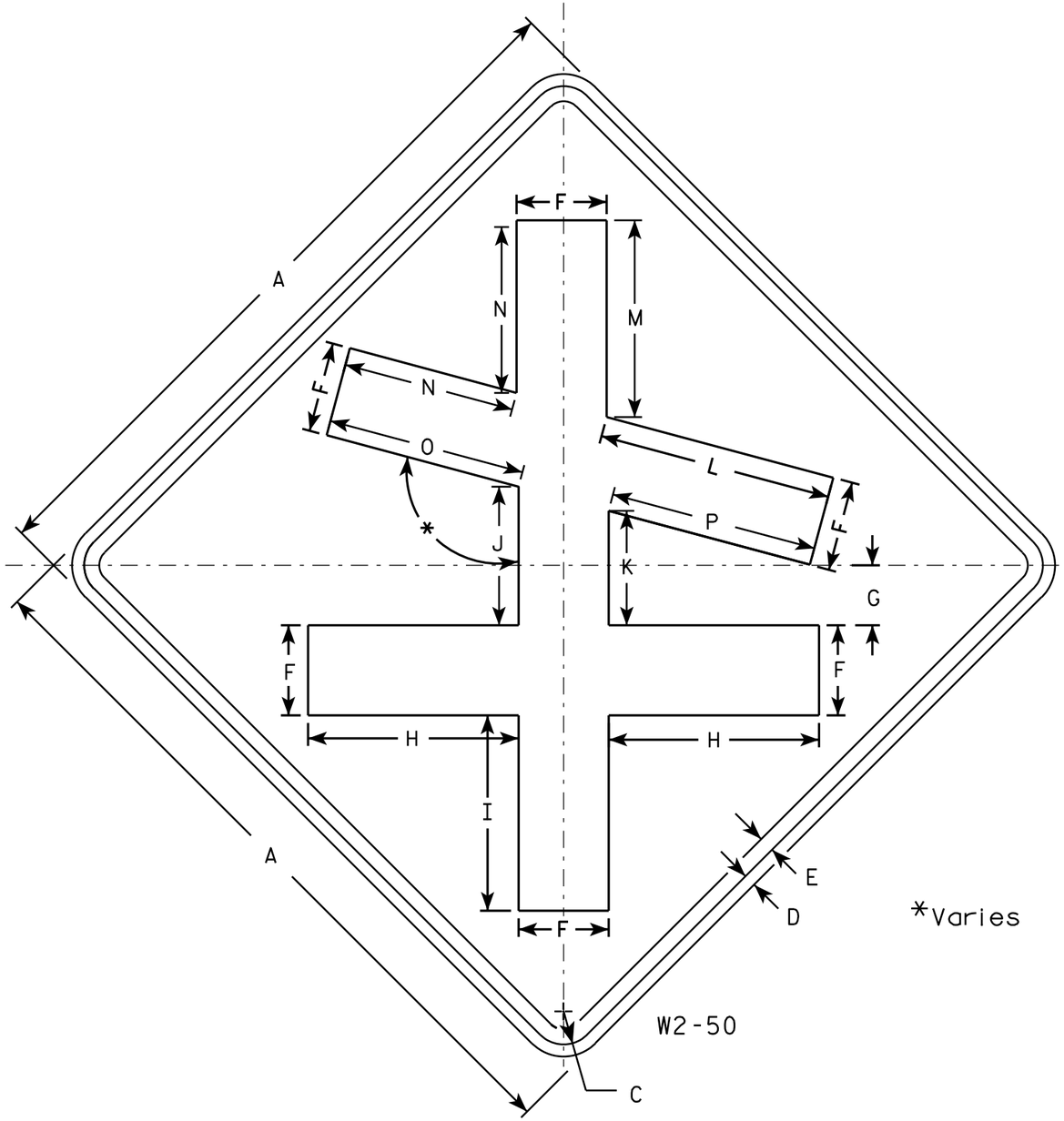
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

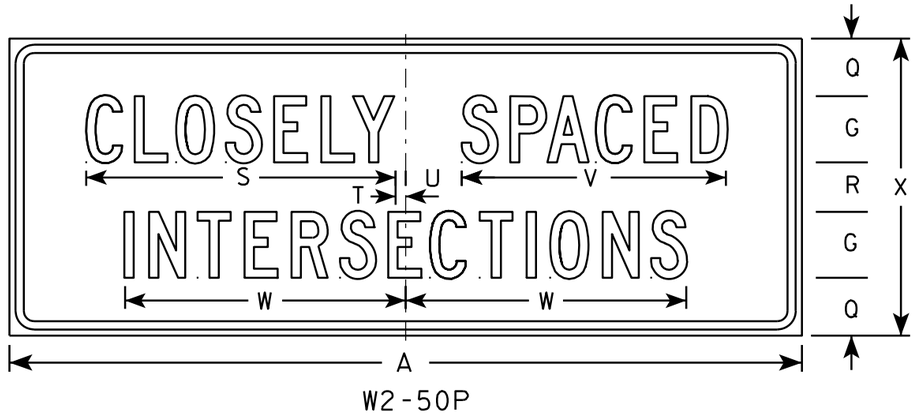
DATE 5/29/12 PLATE NO. W2-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 715	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The symbol of the intersection should match actual field conditions.



W2-50P

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	W2-50 Area sq. ft.	W2-50P Area sq. ft.
1																										
2S																										
2M																										
3																										
4	48		2 1/4	3/4	1	6	4	14	13	9 1/4	7 5/8	15 5/8	13 1/16	11 1/2	13 1/4	13 7/8	3 1/2	3	18 3/4	5/8	3 3/8	16	17	18	16.0	6
5																										

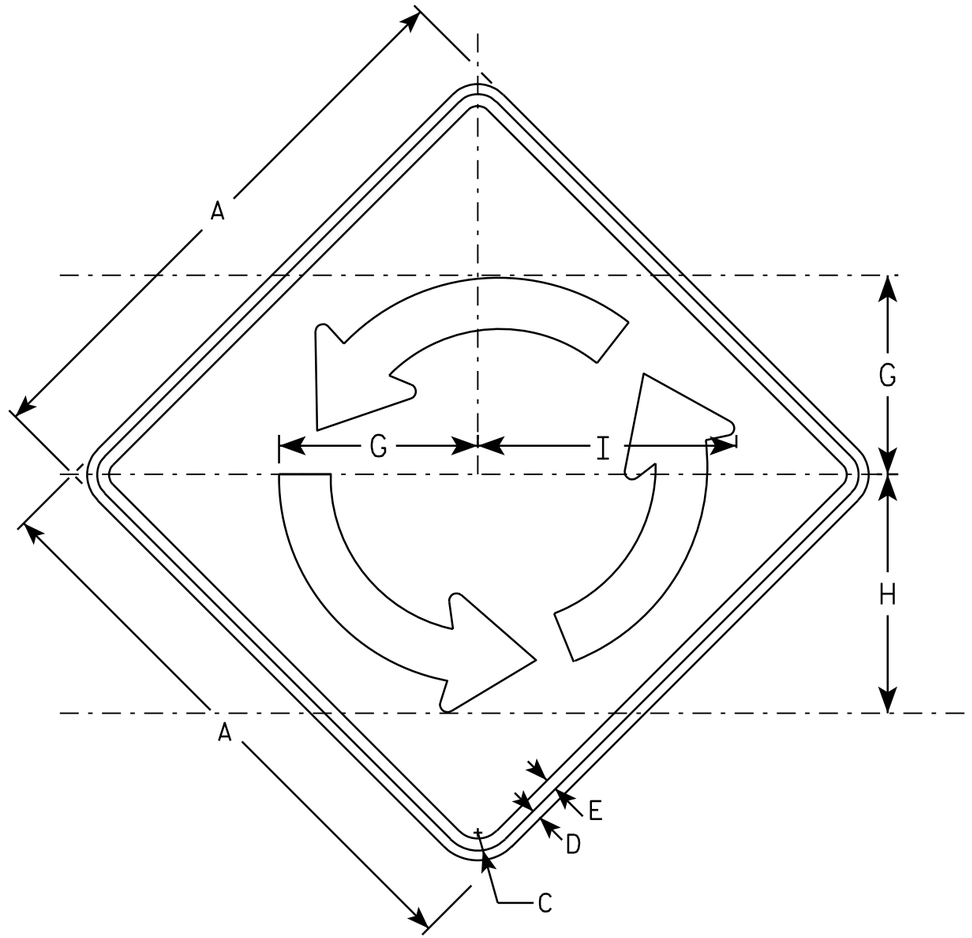
STANDARD SIGN
W2-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-50.3

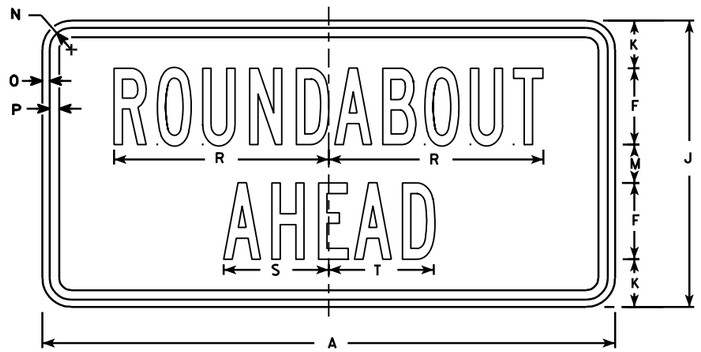
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 716 | E



W2-6

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. 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.



W2-6P

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	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

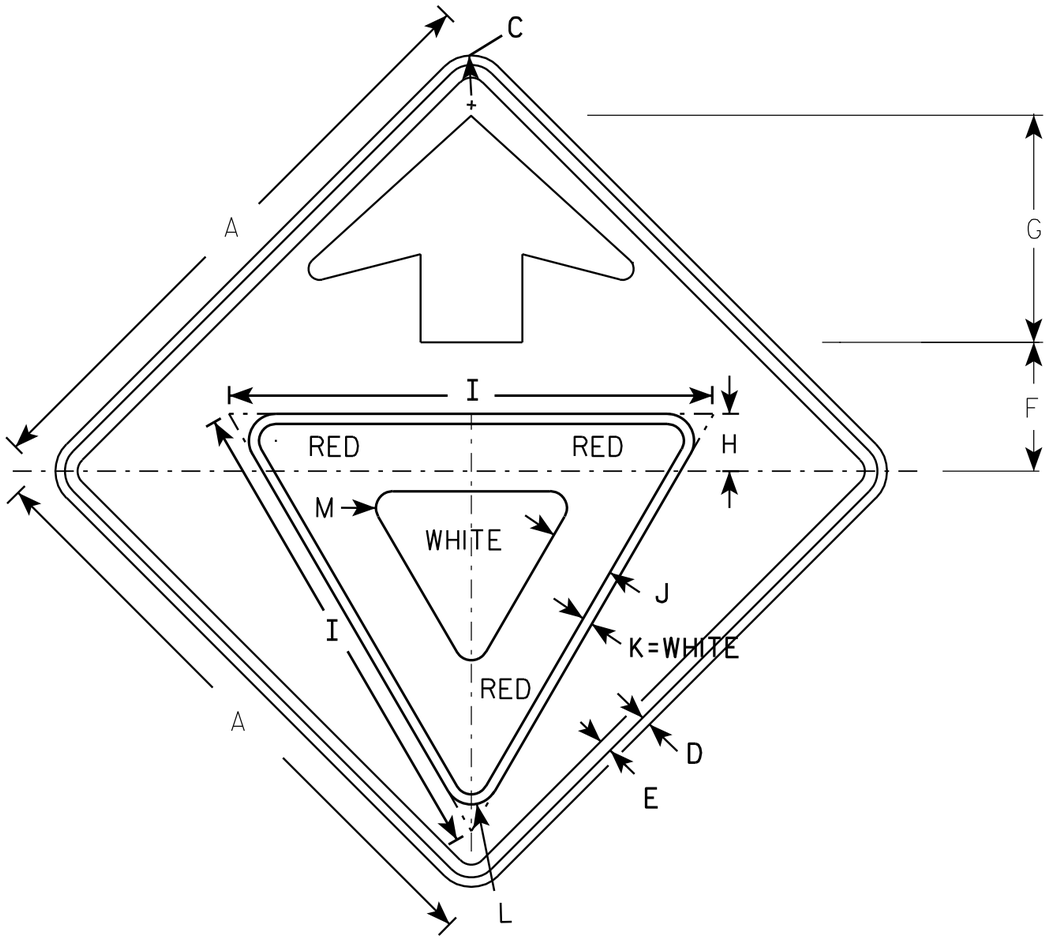
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

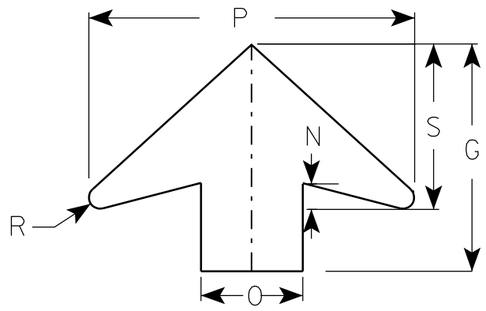
SHEET NO: 717 E



W3-2

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
   Yield 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	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

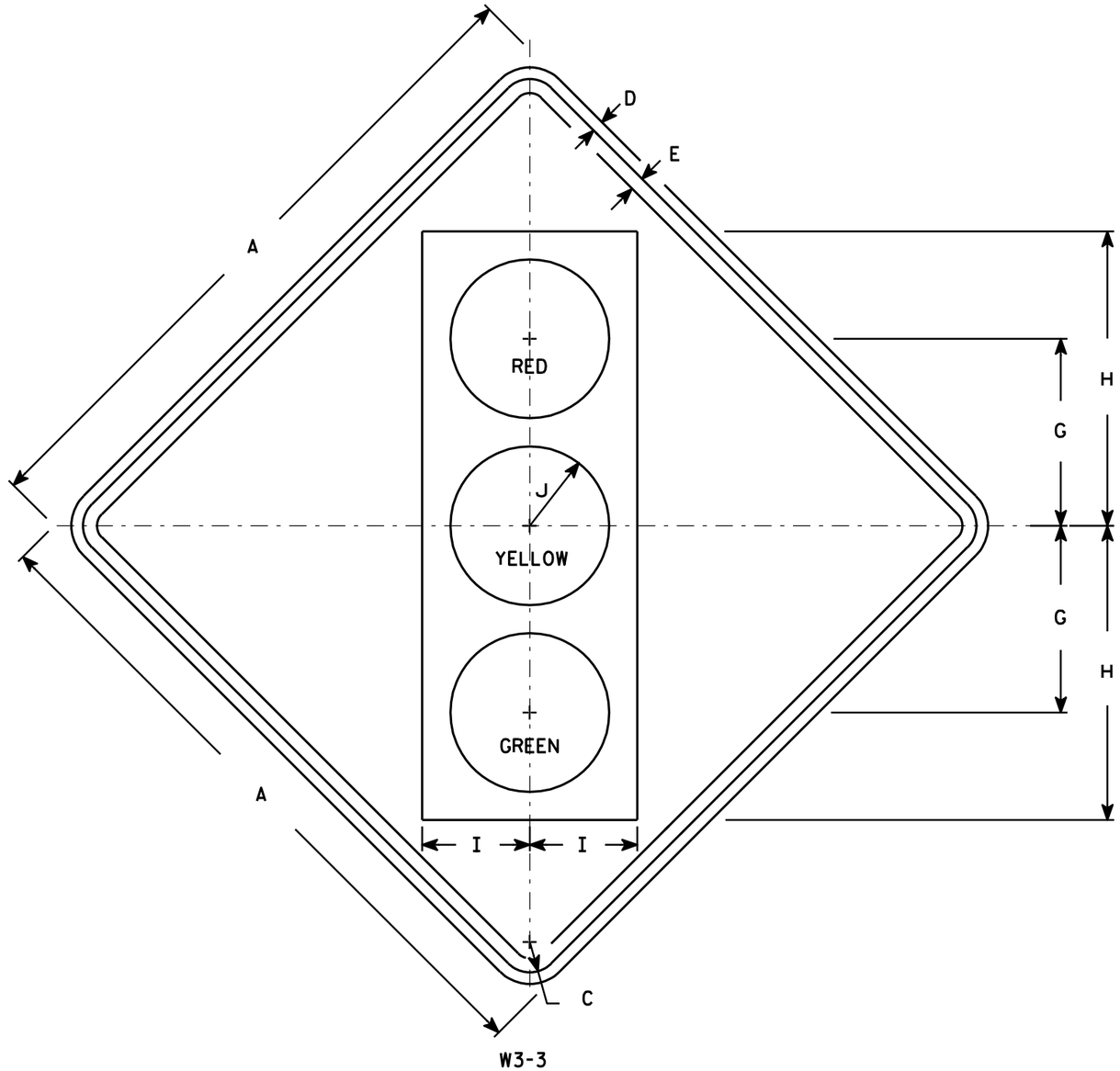
SHEET NO: 718 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W32.DGN PLOT DATE : 07-JUN-2010 13:03 PLOT BY : ditjph

WISDOT/CADDS SHEET 42

7

7



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

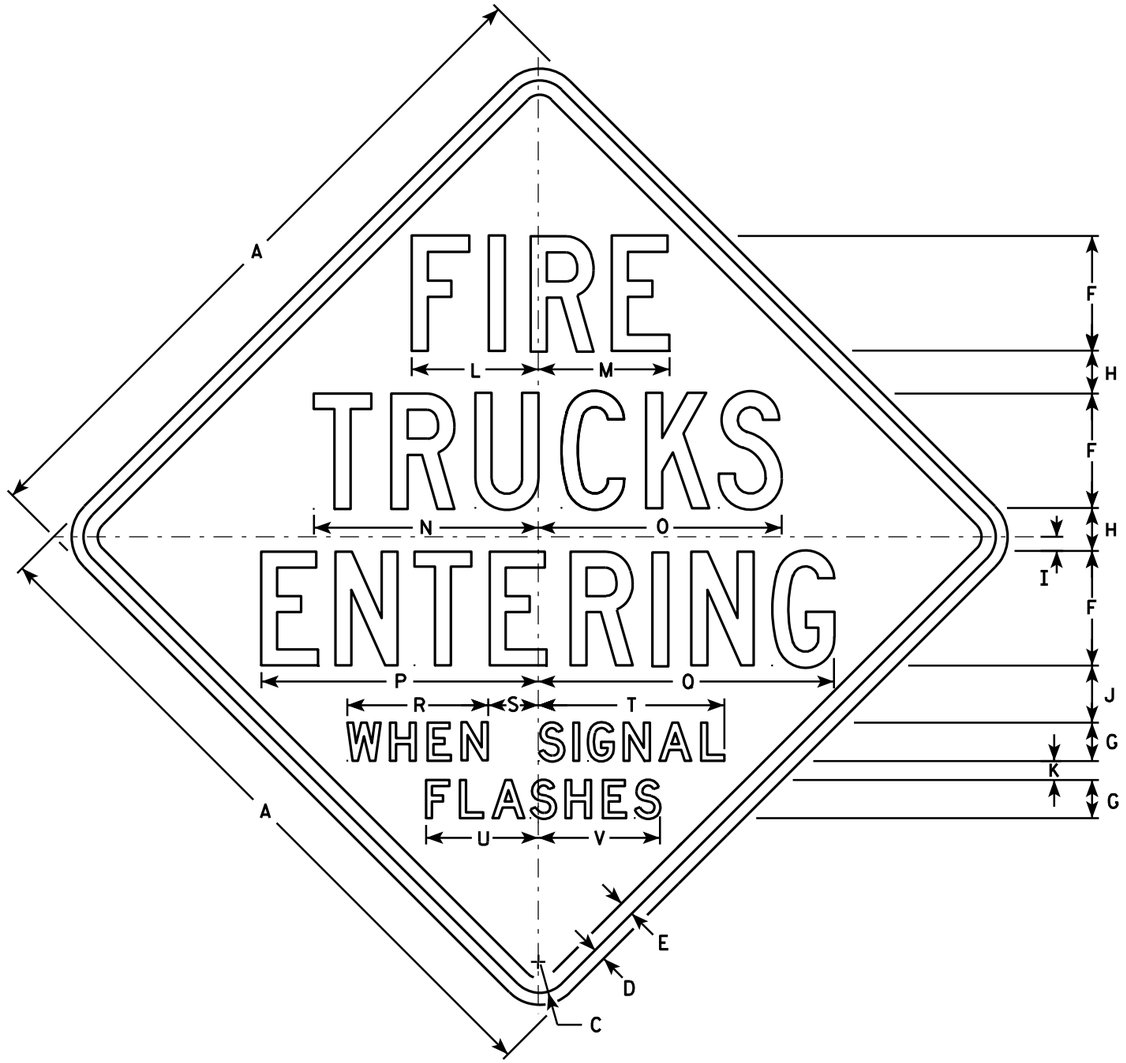
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 719 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42



W54-60

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 - Lines 1, 2, & 3 are Series C
   Lines 4 & 5 are 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	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	1 1/2	1 1/2	1/2	1 3/4	3/4	4 3/8	4 1/2	7 1/8	8 1/2	9 5/8	10 1/4	5 1/2	1 3/4	7 1/8	4 1/2	4 5/8					4.00
2S	36		1 5/8	5/8	3/4	6	2	2 1/4	3/4	3	1	6 5/8	6 7/8	11 3/4	12 3/4	14 1/2	15 1/2	7 3/8	2 5/8	9 3/4	5 7/8	6 3/8					9.00
2M	36		1 5/8	5/8	3/4	6	2	2 1/4	3/4	3	1	6 5/8	6 7/8	11 3/4	12 3/4	14 1/2	15 1/2	7 3/8	2 5/8	9 3/4	5 7/8	6 3/8					9.00
3	36		1 5/8	5/8	3/4	6	2	2 1/4	3/4	3	1	6 5/8	6 7/8	11 3/4	12 3/4	14 1/2	15 1/2	7 3/8	2 5/8	9 3/4	5 7/8	6 3/8					9.00
4																											
5																											

STANDARD SIGN
W54-60

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W54-60.8

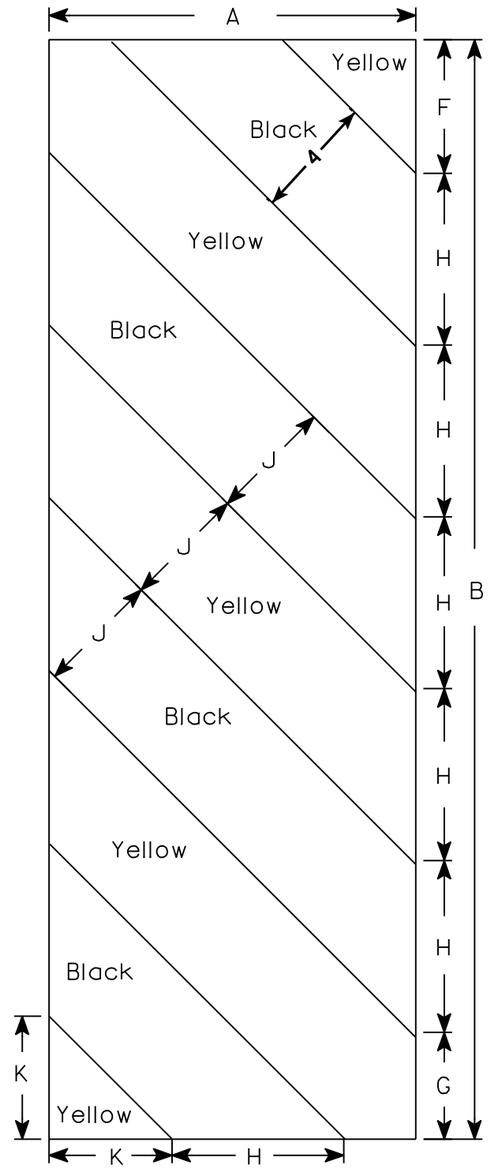
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 720	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W5460.DGN PLOT DATE : 13-MAR-2013 14:07 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 7.939035:1.000000

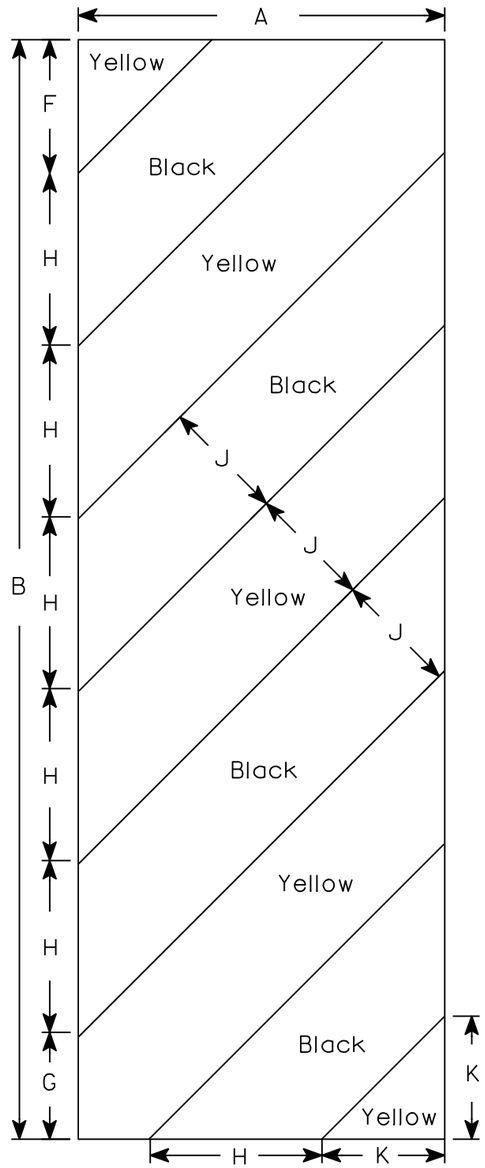
WISDOT/CADDS SHEET 42

7

7



W5-52L



W5-52R

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. Alternate colors of stripes as shown.

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

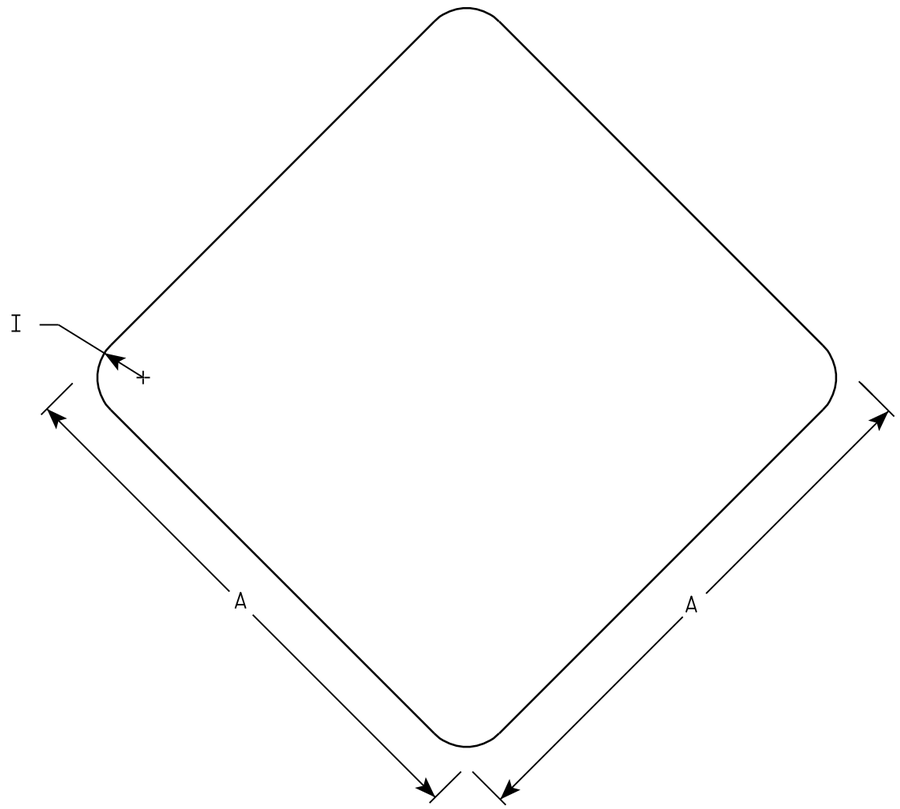
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 721	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																											

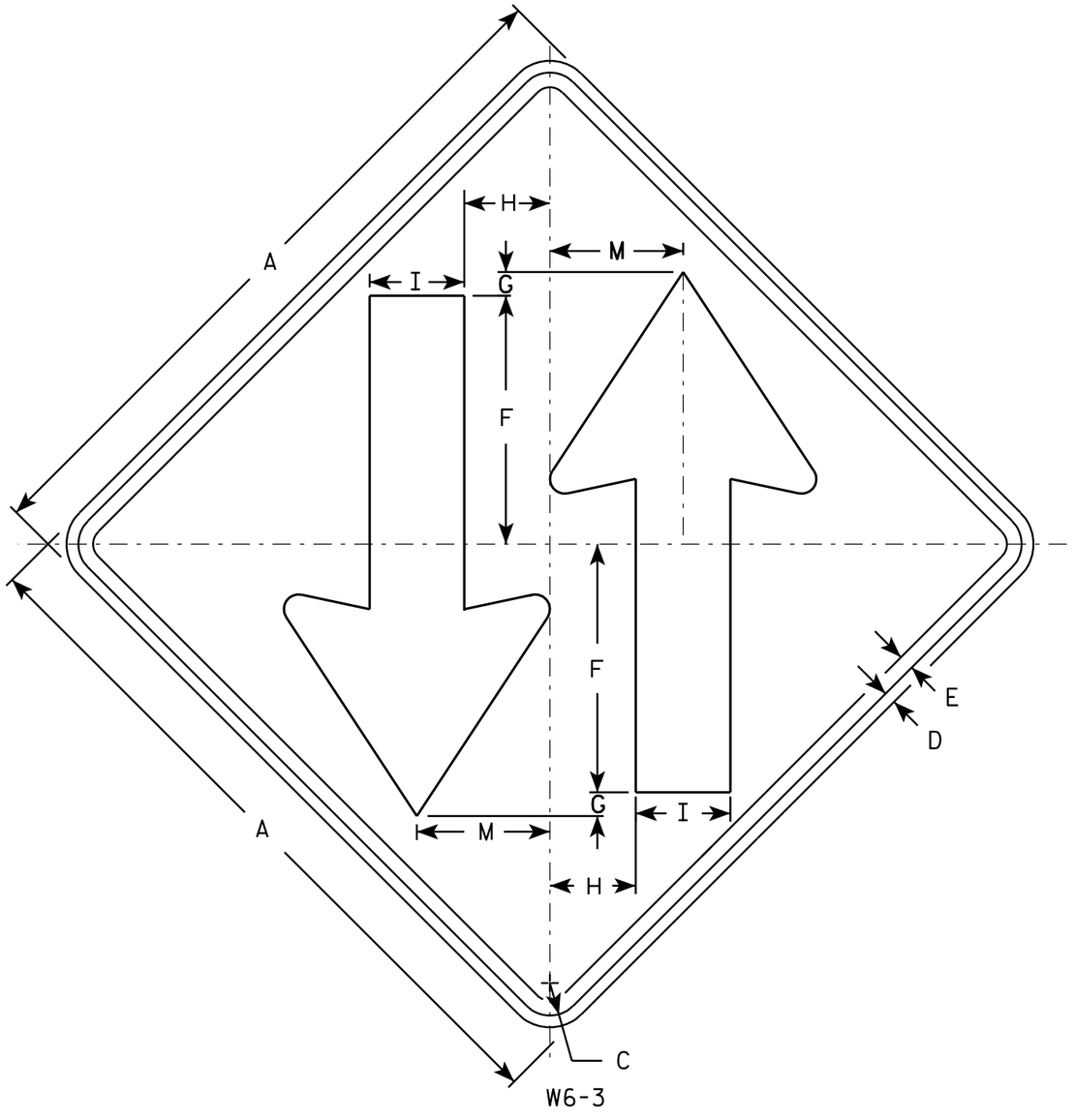
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

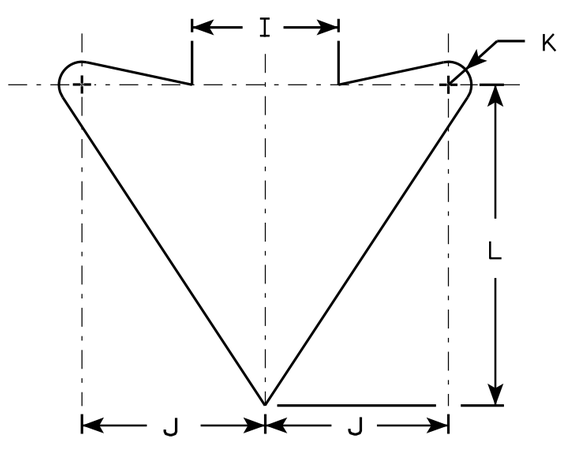
DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 722 | 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	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

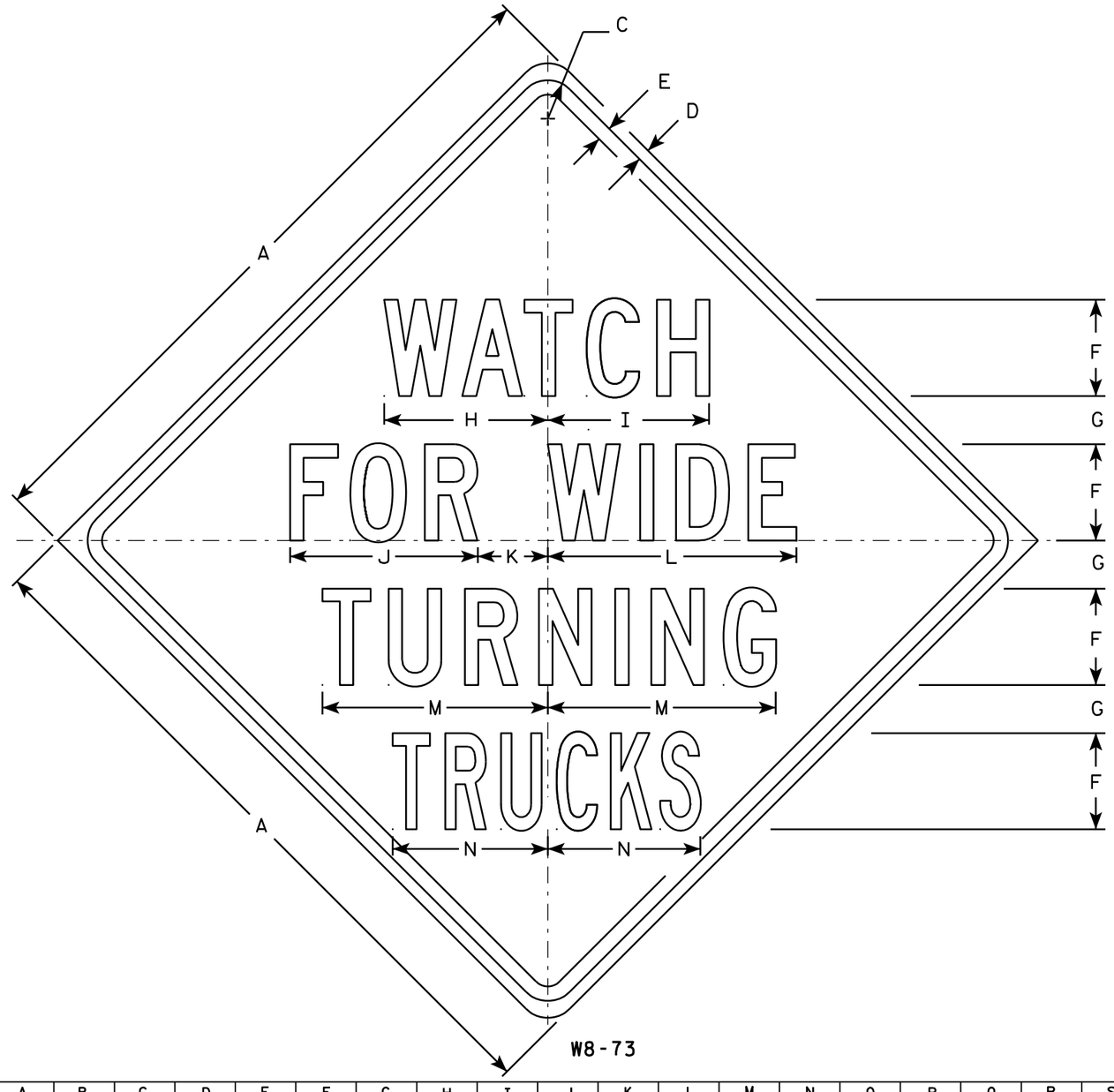
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 723 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 12-MAR-2013 14:11 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.202372:1.000000
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. Message Series - C except line 4 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	30		1 3/8	1/2	5/8	4	2	6 7/8	6 3/4	7 7/8	3	10 3/8	9 1/2	6 1/2													6.25
2M	36		1 5/8	5/8	3/4	5	2 1/2	8 1/2	8 3/8	9 3/4	3 5/8	12 7/8	11 3/4	8													9.0
3	36		1 5/8	5/8	3/4	5	2 1/2	8 1/2	8 3/8	9 3/4	3 5/8	12 7/8	11 3/4	8													9.0
4																											
5																											

STANDARD SIGN
W8-73

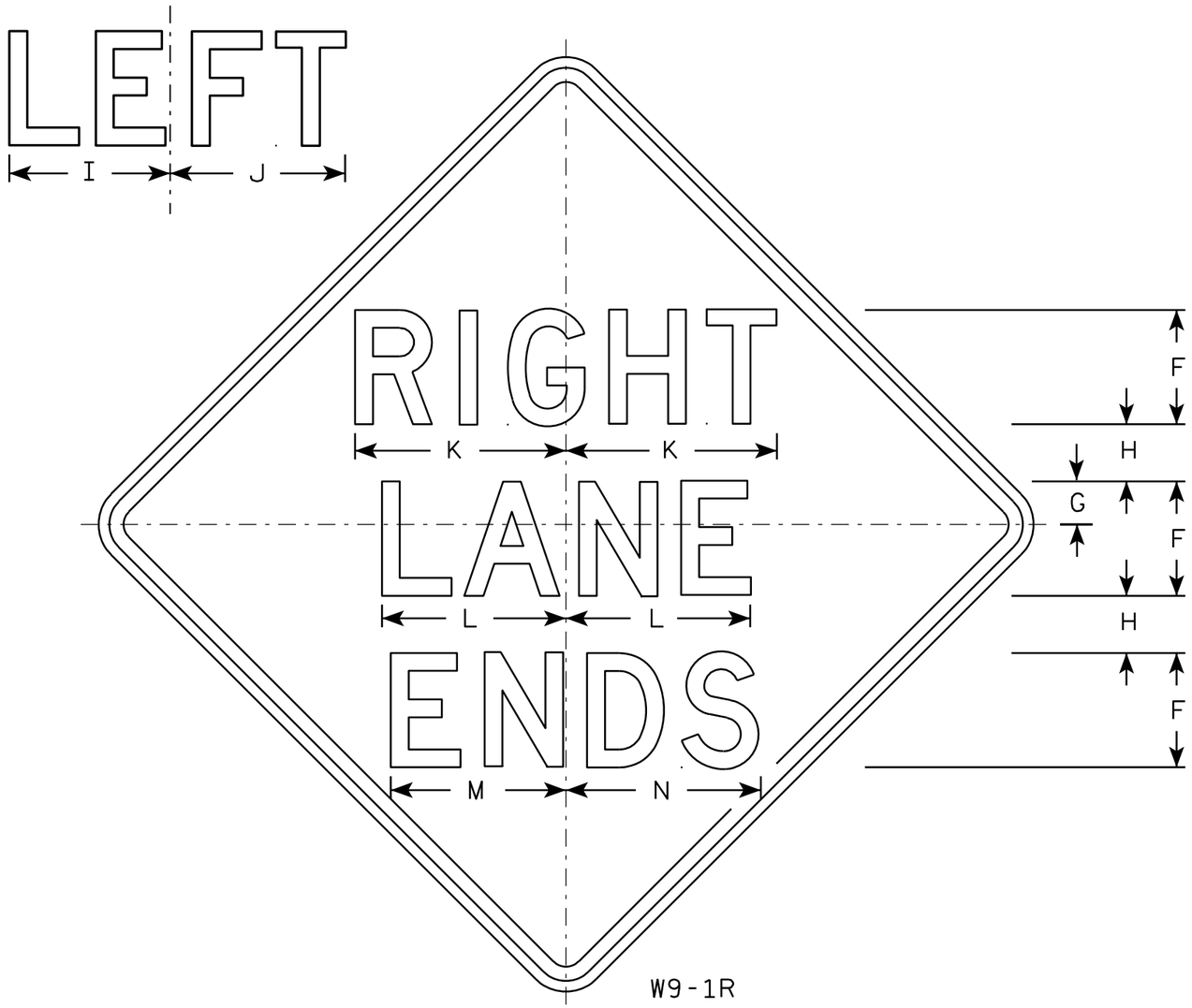
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/18/13 PLATE NO. W8-73.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 724 | E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W873.DGN PLOT DATE : 18-MAR-2013 11:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946654:1.000000
WISDOT/CADDS SHEET 42



W9-1R

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. 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. W9-1L same as W9-1R except the word Left replaces 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	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

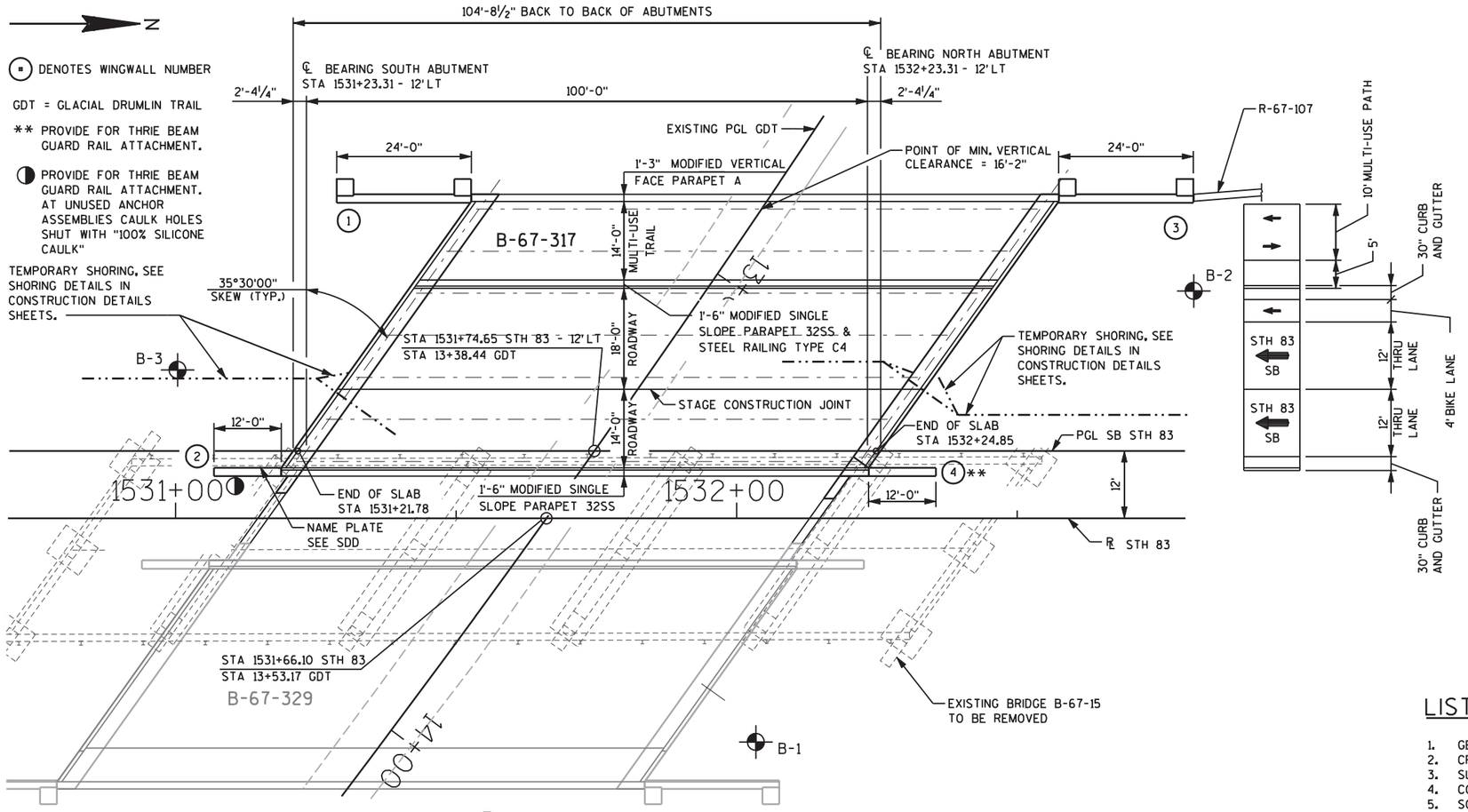
SHEET NO: 725 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

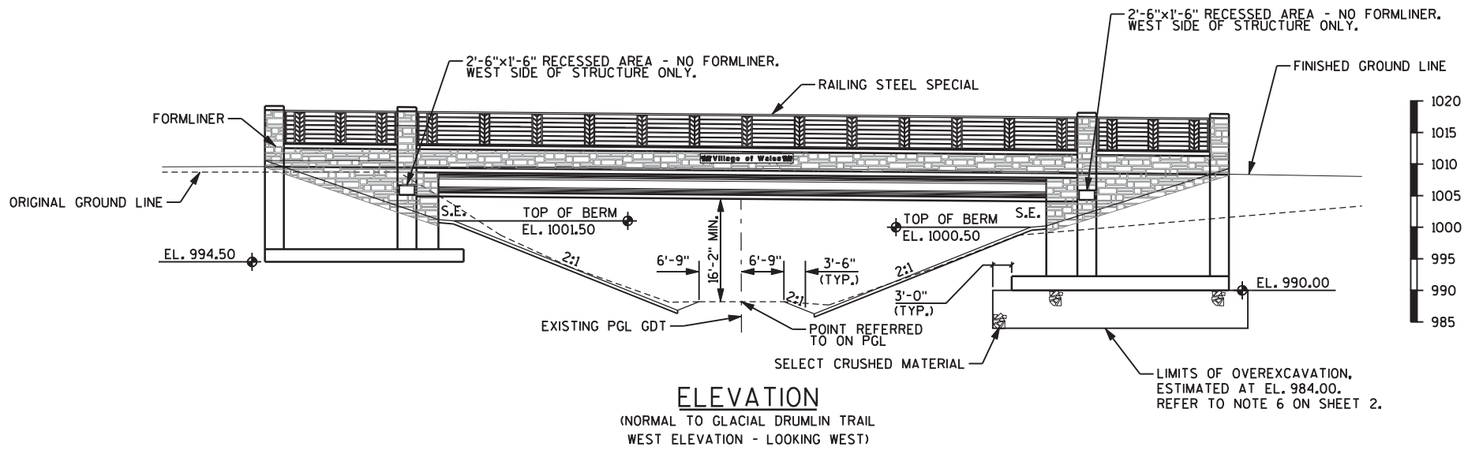
STATE PROJECT NUMBER

1330-18-70



PLAN

SINGLE SPAN 45W-INCH PRESTRESSED GIRDER



ELEVATION

(NORMAL TO GLACIAL DRUMLIN TRAIL
WEST ELEVATION - LOOKING WEST)

DESIGN DATA

LIVE LOAD

DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF=1.13
OPERATING RATING FACTOR: RF=1.61
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 250 KIPS
THE STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY SLAB: f'c = 4,000 psi ALL OTHER: f'c = 3,500 psi
BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 psi
45W" PRESTRESSED GIRDERS, CONCRETE MASONRY — f'c = 8,000 psi
STRANDS - 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 psi
STRUCTURAL CARBON STEEL ASTM A709 GRADE 36 — fy = 36,000 psi
HIGH STRENGTH STRUCTURAL STEEL ASTM A709 GRADE 50 — fy = 50,000 psi

FOUNDATION DATA

ABUTMENTS WITH SPREAD FOOTINGS TO BE SUPPORTED ON CLEAN UNDISTURBED SOIL WITH A REQUIRED FACTORED BEARING RESISTANCE OF 5,400 PSF ***. A GEOTECHNICAL ENGINEER WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE ABUTMENT FOOTING.

*** THE FACTORED BEARING RESISTANCE IS THE VALUE USED FOR DESIGN.

TRAFFIC

ADT = 17,500 (2006)
ADT = 19,100 (2012)
ADT = 24,300 (2032)
DESIGN SPEED = 40 MPH

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION AND GENERAL NOTES
3. SUBSURFACE EXPLORATION
4. CONSTRUCTION STAGING
5. SOUTH ABUTMENT
6. SOUTH ABUTMENT DETAILS 1
7. SOUTH ABUTMENT DETAILS 2
8. SOUTH ABUTMENT DETAILS 3
9. SOUTH RETAINING WALL
10. NORTH ABUTMENT
11. NORTH ABUTMENT DETAILS 1
12. NORTH ABUTMENT DETAILS 2
13. NORTH ABUTMENT DETAILS 3
14. NORTH RETAINING WALL
15. ALTERNATE CONSTRUCTION JOINT
16. SLOPE PROTECTION
17. 45W" PRESTRESSED GIRDER DETAILS
18. 45W" PRESTRESSED GIRDER DETAILS
19. FRAMING PLAN
20. STEEL DIAPHRAGM
21. SUPERSTRUCTURE
22. SUPERSTRUCTURE DETAILS 1
23. SUPERSTRUCTURE DETAILS 2
24. SUPERSTRUCTURE DETAILS 3
25. MODIFIED SINGLE SLOPE PARAPET 32SS
26. MODIFIED VERTICAL FACE PARAPET TYPE 'A'
27. ELECTRICAL DETAILS
28. RAILINGS
29. RAILING STEEL SPECIAL DETAILS
30. COMBINATION RAIL TYPE "C4"
31. COMBINATION RAIL TYPE "C4"
32. AESTHETIC DETAILS

9/18/2013

BUREAU OF STRUCTURES CONTACT:
WILLIAM DREHER (608-266-8489)

CONSULTANT CONTACT:
PAUL WIRTH (262-901-2500)

NO.	DATE	REVISION	BY

PATRICK ENGINEERING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher — CHIEF STRUCTURES DESIGN ENGINEER — 9/20/13 DATE

STRUCTURE B-67-317

STH 83 OVER GLACIAL DRUMLIN TRAIL

COUNTY	TOWN/CITY/VILLAGE
WAUKESHA	WALES

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
PEW	RDW	KEF	RLD

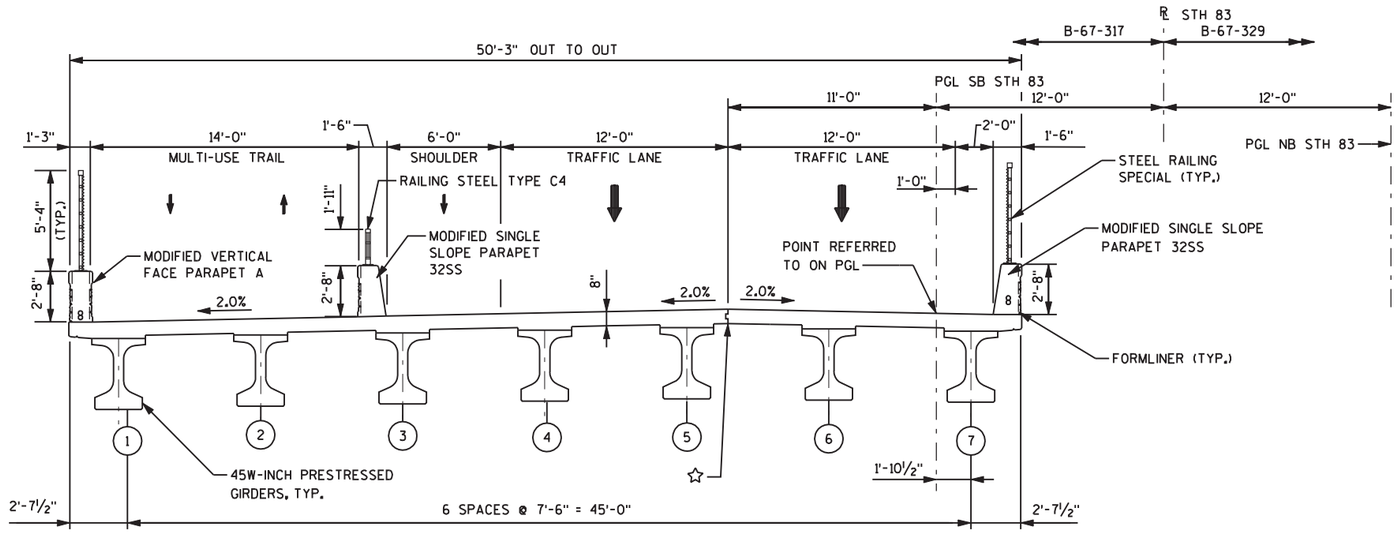
GENERAL PLAN

SHEET 1 OF 32
726

8

8

Pdf_bw_HS.plt
PEI_TextSub.tbl



☆ STAGE CONSTRUCTION JOINT. THE TOP OF THE JOINT SHALL BE SEALED WITH A POURABLE CRACK SEALER IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF SECTION 502 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".

PROPOSED BRIDGE CROSS SECTION

(LOOKING NORTH)

TOTAL ESTIMATED QUANTITIES

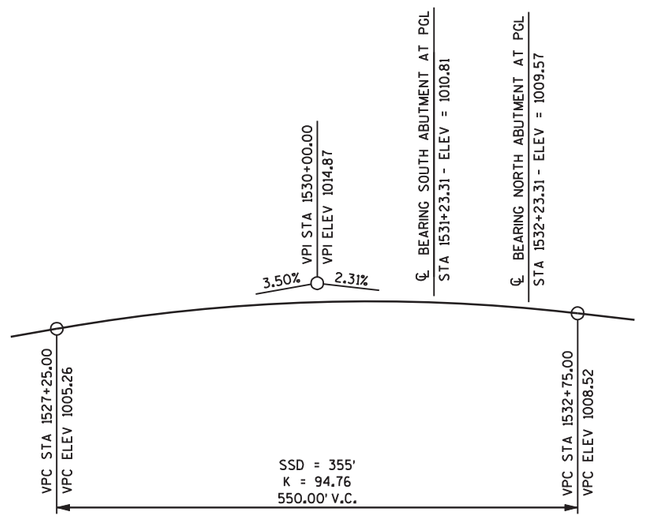
ITEM NO.	BID ITEM	UNIT	SOUTH ABUTMENT	NORTH ABUTMENT	SUPER	TOTAL
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-67-317	LS	----------	----------	----------	1.0
210.0100	BACKFILL STRUCTURE	CY	760.0	1070.0	----------	1830.0
312.0115	SELECT CRUSHED MATERIAL	CY	----------	440.0	----------	440.0
502.0100	CONCRETE MASONRY BRIDGES	CY	213.0	281.0	240.0	734.0
502.3200	PROTECTIVE SURFACE TREATMENT	SY	----------	----------	630.0	630.0
502.5010	MASONRY ANCHORS TYPE L NO. 6 BARS	EACH	13.0	12.0	----------	25.0
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	----------	----------	707.0	707.0
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	13190.0	20070	----------	33260.0
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	5210.0	9180	37580.0	51970.0
505.0905	BAR COUPLERS NO. 5	EACH	22.0	28.0	----------	50.0
505.0906	BAR COUPLERS NO. 6	EACH	29.0	33.0	----------	62.0
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	----------	----------	14.0	14.0
506.4000	STEEL DIAPHRAGMS (B-67-317)	EACH	----------	----------	12.0	12.0
513.7020	RAILING STEEL TYPE C4 (B-67-317)	LS	----------	----------	----------	1.0
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	22.0	23.0	----------	45.0
517.1010.S	CONCRETE STAINING B-67-317	SF	65.0	65.0	2150.0	2280.0
517.1015.S	CONCRETE STAINING MULTI-COLOR B-67-317	SF	970.0	970.0	845.0	2785.0
517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-67-317	SF	1035.0	1035.0	1125.0	3195.0
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	70.0	80.0	----------	150.0
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	115.0	115.0	----------	230.0
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	----------	----------	2.0	2.0
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	120	80	420.0	620.0
SPV.0090.11	STEEL RAILING DECORATIVE BRIDGE B-67-317	LF	----------	----------	279	279.0
SPV.0105.05	MAINTAINING OPERATION AND DEBRIS CONTAINMENT STRUCTURE B-67-317	LS	----------	----------	----------	1.0
SPV.0180.01	SLOPE PAVING CRUSHED AGGREGATE SPECIAL	SY	190.0	190.0	----------	380.0
	NON-BID ITEMS					
	PREFORMED JOINT FILLER	SIZE				3/4"
	NON-BITUMINOUS JOINT FILLER	SIZE				3/4"
	CORK FILLER	SIZE				3/4"
	NAME PLATE	EACH				1

ALL ITEMS ARE CATEGORY 0020

GENERAL NOTES

1. BENDING DIMENSIONS FOR REINFORCING BARS SHOWN ARE OUT-TO-OUT.
2. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
3. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
4. THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF EXISTING UTILITY INSTALLATIONS IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE THE DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES NECESSARY TO AVOID DAMAGE.
5. INFORMATION ON THESE DRAWINGS RELATING TO THE EXISTING BRIDGE IS BASED UPON DRAWINGS AVAILABLE FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION. NO GUARANTY OR WARRANTY IS MADE THAT THE INFORMATION IS ALL INCLUSIVE OR COMPLETELY ACCURATE. THE CONTRACTOR SHALL MAKE THE DETERMINATION OF THE ACTUAL CONDITIONS TO BE ENCOUNTERED.
6. IT IS ANTICIPATED THAT THERE WILL BE AREAS OF OVER EXCAVATION REQUIRED AT THE NORTH ABUTMENT TO REMOVE BROWN SILTY CLAY AND REPLACE IT WITH SELECT CRUSHED MATERIAL. IT IS ESTIMATED THAT HE BOTTOM OF THE BROWN SILTY CLAY IS AT EL. 984.00. THE COST FOR OVER EXCAVATION SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-67-317". THE QUANTITY OF SELECT CRUSHED MATERIAL WAS DETERMINED BASED ON A PLANE EXTENDING 3'-0" BEYOND THE FOOTING BASE OF THE ABUTMENT AND WINGWALLS AND 6'-0" DEEP. THE ACTUAL QUANTITIES WILL BE DETERMINED IN THE FIELD BASED ON THE ACTUAL AMOUNT OF OVER EXCAVATION REQUIRED.
7. THIS STRUCTURE WILL REPLACE B-67-15 WHICH IS A FIVE-SPAN CONTINUOUS HAUNCHED SLAB STRUCUTRE APPROXIMATELY 160' LONG AND 32.33' WIDE. CONCRETE SPREAD FOOTINGS SUPPORT THE ABUTMENTS AND PIERS. THE CONTRACTOR SHALL REMOVE ALL ELEMENTS OF THE EXISTING BRIDGE THAT INTERFERE WITH THE CONSTRUCTION OF THE PROPOSED BRIDGE.
8. ALL STATIONS AND ELEVATIONS ARE IN FEET.
9. AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.
10. THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING CRUSHED AGGREGATE SPECIAL TO THE EXTENT SHOWN ON SHEET 16.
11. ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NVGD).
12. DRAWINGS SHALL NOT BE SCALED.
13. FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153, TYPES I, II OR III; OR AASHTO DESIGNATION M213.
14. THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE ABUTMENTS.
15. THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET.
16. PROVIDE A ¾" CHAMFER OR RADIUS ON ALL EXPOSED CONCRETE EDGES.
17. THE ELASTOMERIC BEARING PADS NON-LAMINATED NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.
18. PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE TOP OF THE DECK, INSIDE FACES OF THE MIDDLE AND EAST PARAPET AND TOP OF PARAPETS.

EXISTING PROFILE GRADE LINE - GLACIAL DRUMLIN TRAIL



PROPOSED PROFILE GRADE LINE - STH 83 SB

STATE PROJECT NUMBER

1330-18-70

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY KEF | PLANS CK'D. RLD

CROSS SECTION & GENERAL NOTES

SHEET 2 OF 32
727

8

8

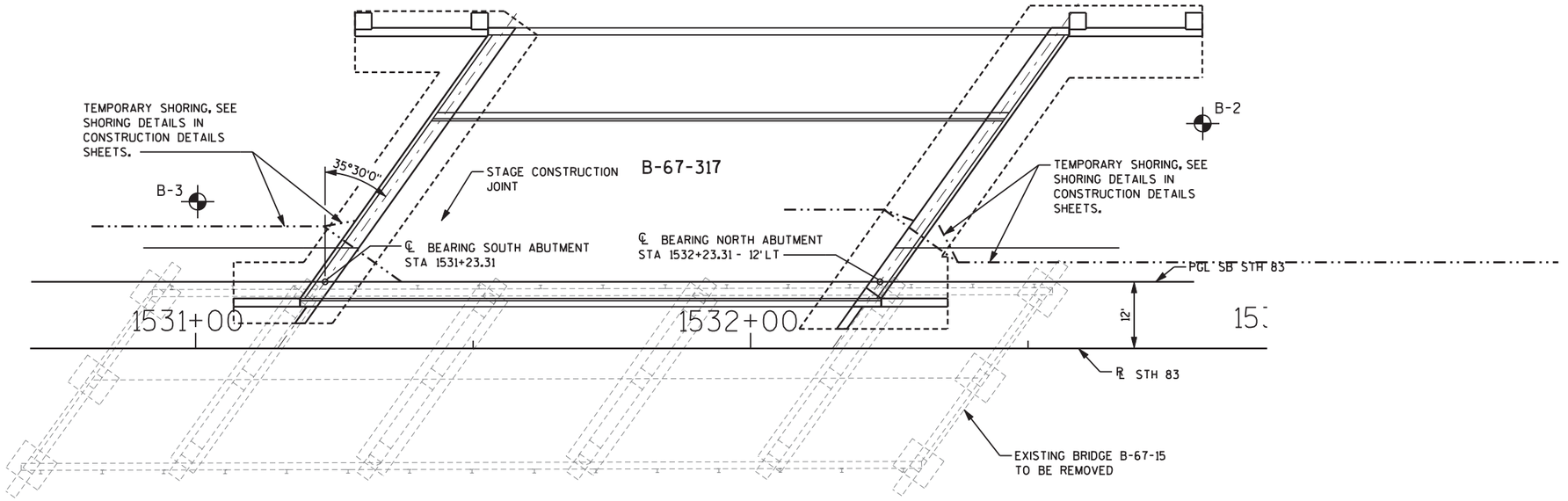
Pdf_bw_HS.plt
PEI_TextSub.tbl

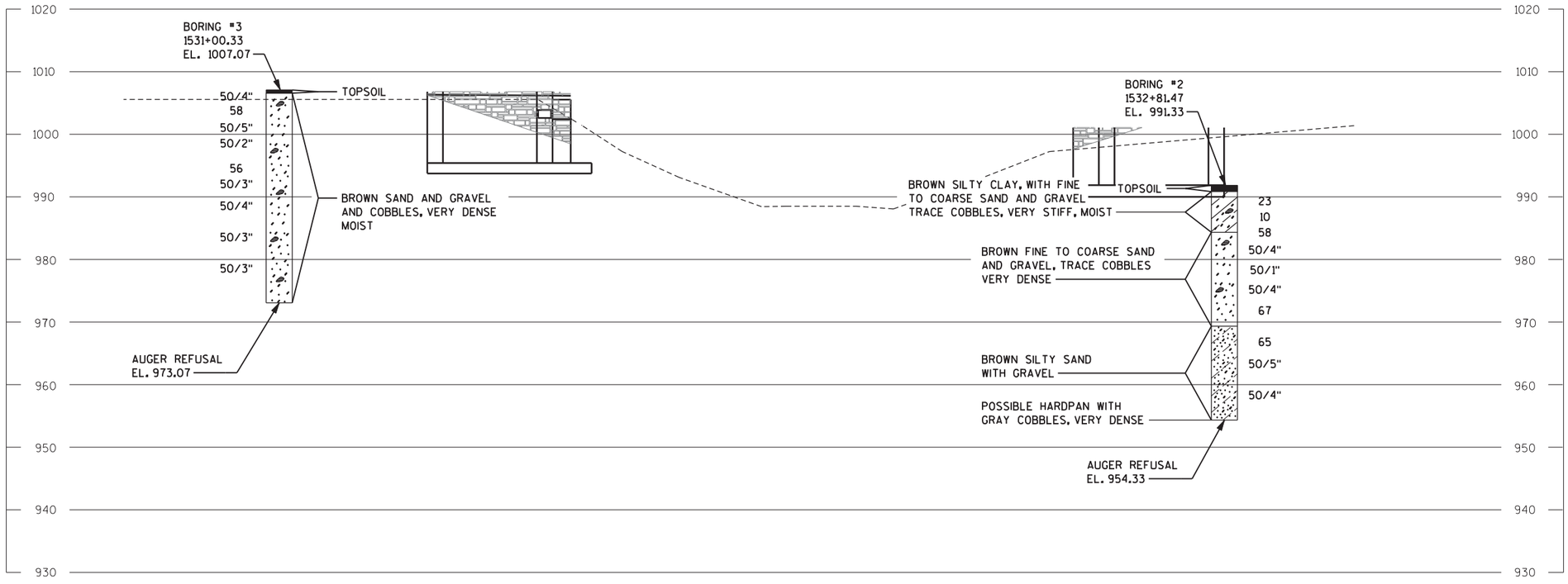
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080020_gn317.dgn PLOT DATE : 9/18/2013 2:26:59 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 8.0000 ft / IN.

FILE=
SCALE =

N

SOIL BORINGS PERFORMED BY WISCONSIN SOIL TESTING, DECEMBER 2009





STATE PROJECT NUMBER

1330-18-70

ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING

PROBING NO.
STA.
ELEVATION
7 AVERAGE BLOWS PER FOOT
REFUSAL 95/6

95/6=95 BLOWS FOR 6" PENETRATION PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING

BORING NO.
ELEV.
STA.
UNCONFINED STRENGTH → 7.7 7
SANDY GRAVEL
BLOWS PER FT. USING 140# WT. FALLING 30"
WASH SAMPLE
F. BOULDERS OR COBBLES
SHELBY TUBE — S.T.
SAND
GROUND WATER ELEVATION
SILTY CLAY
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SO LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUDNINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. PEW

SUBSURFACE EXPLORATION

SHEET 3 OF 32
728

8

8

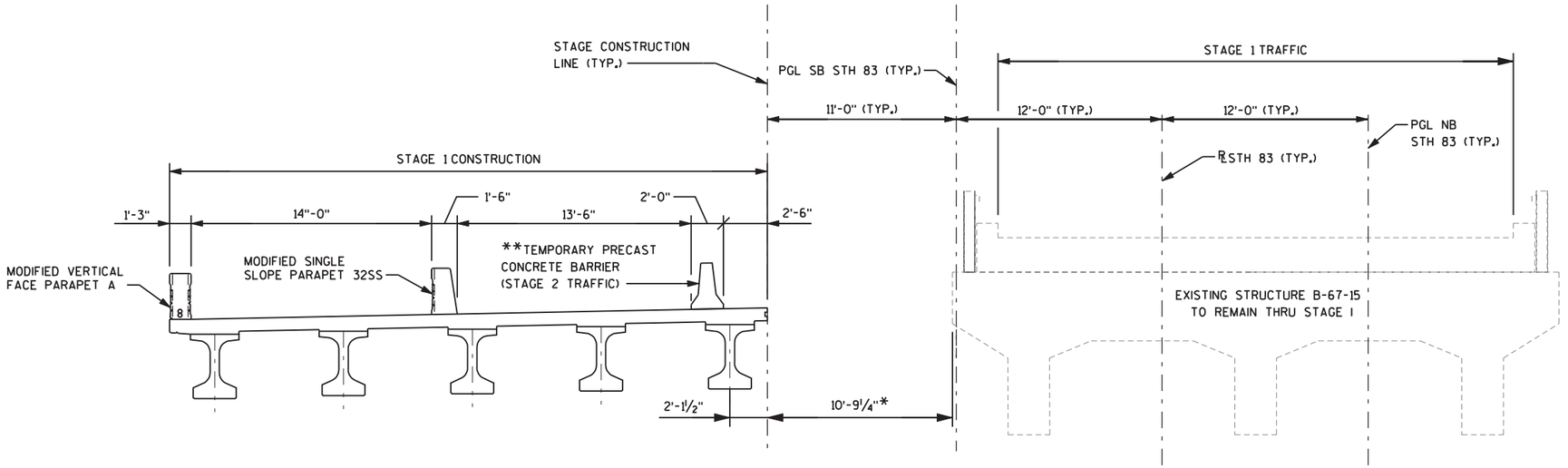
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080030_se317.dgn PLOT DATE : 9/18/2013 2:27:02 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 24.0000 ft / IN.

FILE=
SCALE =

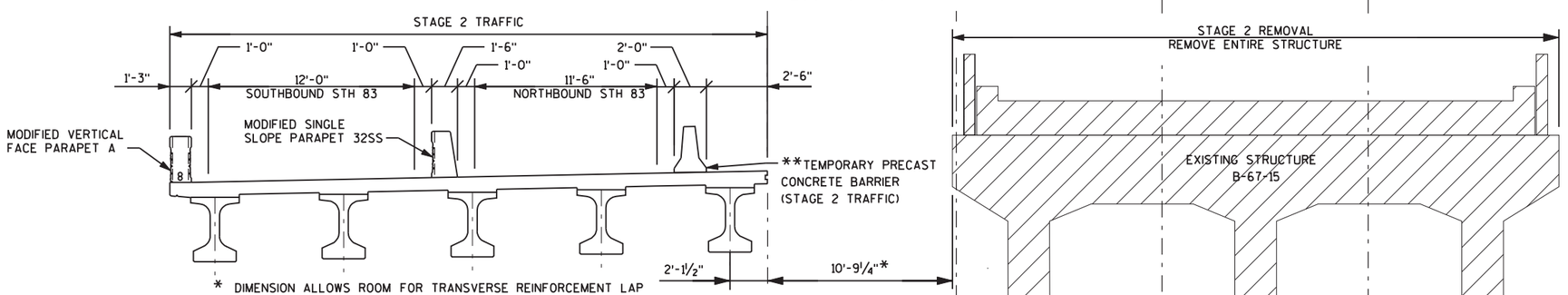
STATE PROJECT NUMBER

1330-18-70



SECTION - STAGE 1

(LOOKING NORTH)

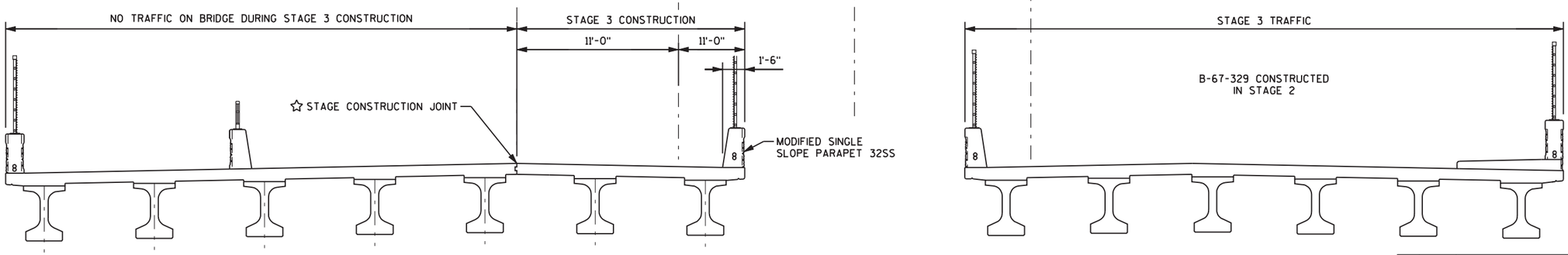


* DIMENSION ALLOWS ROOM FOR TRANSVERSE REINFORCEMENT LAP

** ANCHOR TEMPORARY PRECAST CONCRETE BARRIER TO SLAB.

SECTION - STAGE 2

(LOOKING NORTH)



SECTION - STAGE 3

(LOOKING NORTH)

☆ STAGE CONSTRUCTION JOINT SHALL BE SEALED WITH A POURABLE CRACK SEALER IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF SECTION 502 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY KEF | PLANS CK'D. RLD

CONSTRUCTION STAGING

SHEET 4 OF 32
729

8

8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

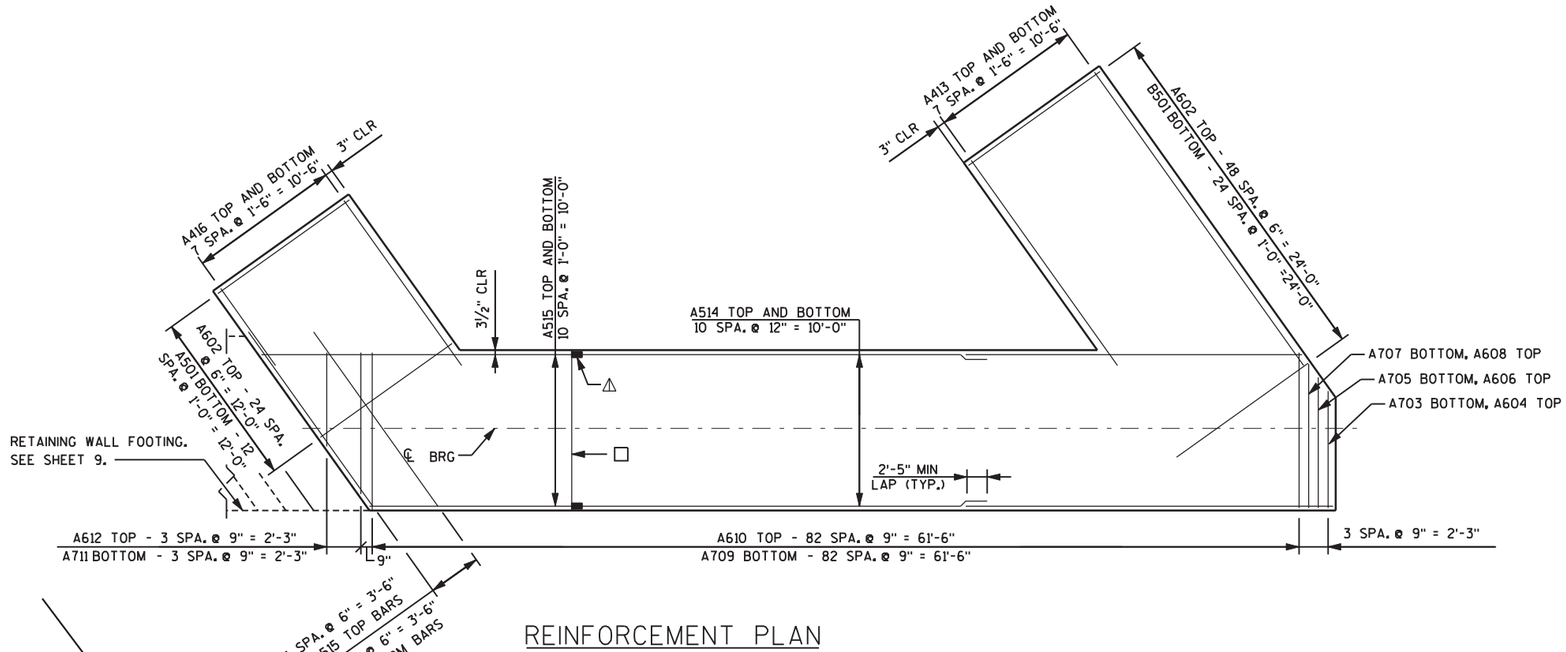
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080050_cs317.dgn PLOT DATE : 9/18/2013 2:27:05 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 8.0000 sf / IN.

FILE=
SCALE =

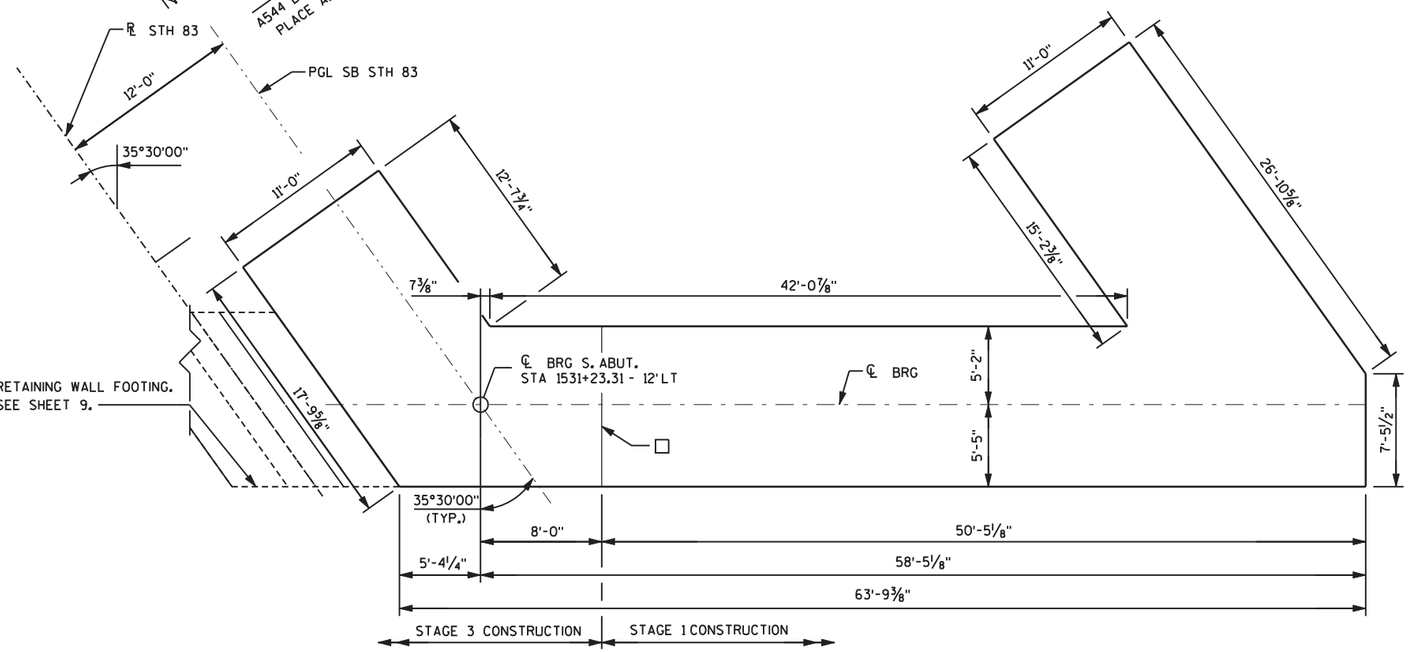
STATE PROJECT NUMBER
1330-18-70

WINGWALL 2

WINGWALL 1



REINFORCEMENT PLAN



FOUNDATION PLAN

NOTES

1. ABUTMENTS WITH SPREAD FOOTINGS TO BE SUPPORTED ON CLEAN UNDISTURBED SOIL WITH A REQUIRED FACTORED BEARING RESISTANCE OF 5,400 PSF. A GEOTECHNICAL ENGINEER WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE ABUTMENT FOOTING.
2. REFER TO SHEET 6 AND 7 FOR THE LOCATION AND SPACING OF THE REINFORCEMENT DOWELS REQUIRED TO BE CAST IN THE FOOTING.

LEGEND

☐ VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8".

⚠ BAR COUPLER. BAR LENGTHS HAVE BEEN COMPUTED TO THE ℄ OF THE VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY	PEW	PLANS CK'D.	RLD

SOUTH ABUTMENT

SHEET 5 OF 32
730

8

8

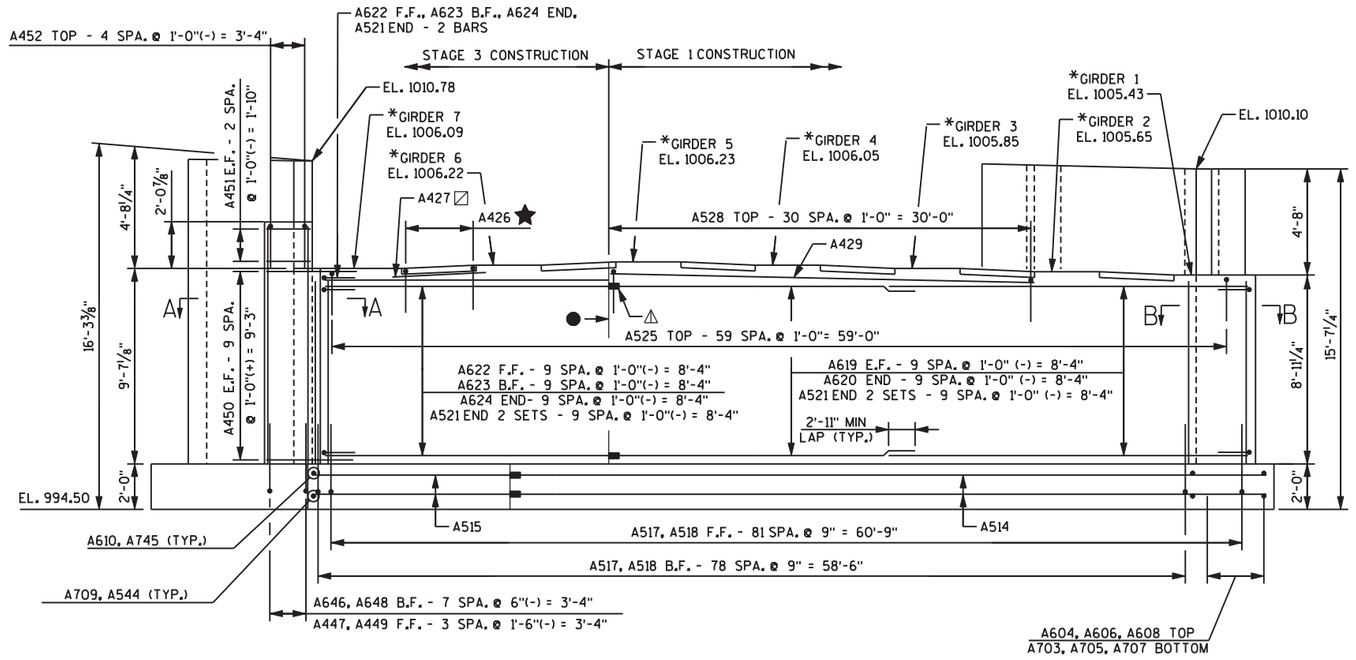
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080100_sab317.dgn PLOT DATE : 9/18/2013 2:27:06 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

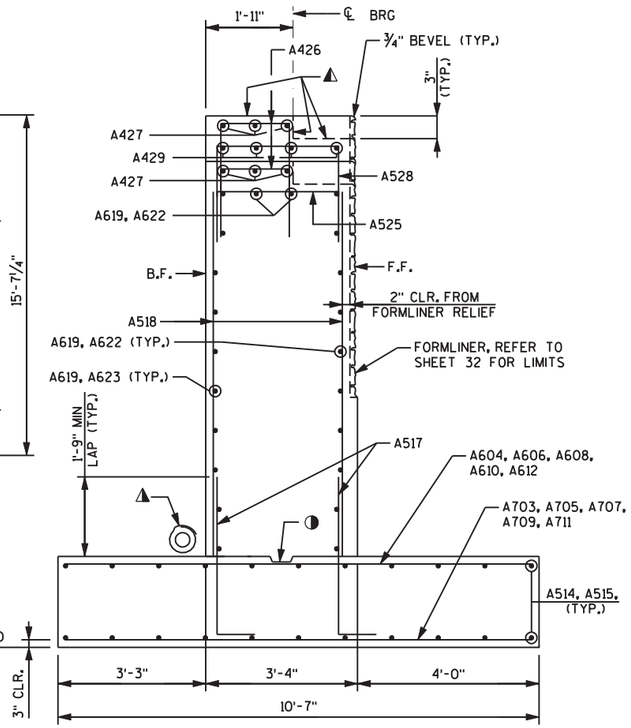
FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



ELEVATION - LOOKING SOUTHWEST



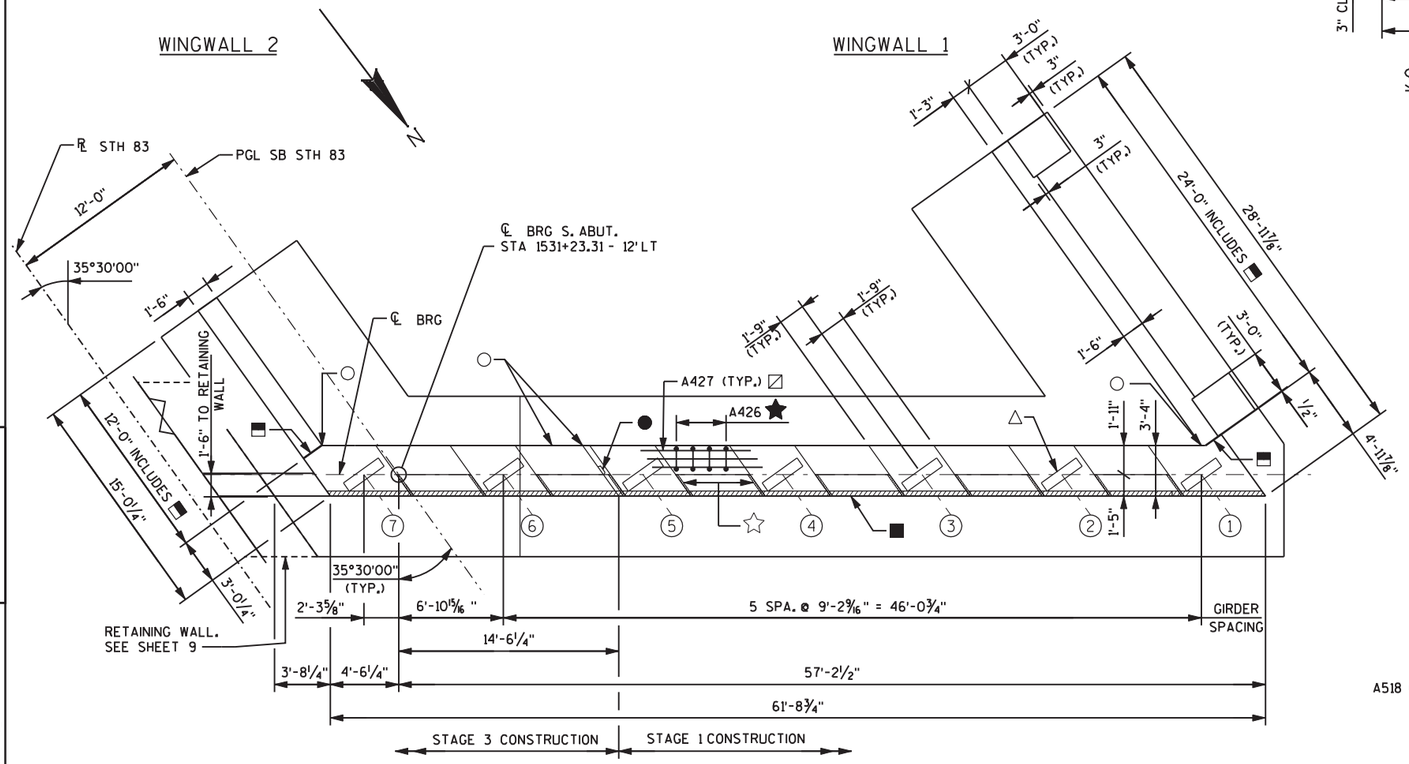
SECTION THRU ABUTMENT BODY

NOTES

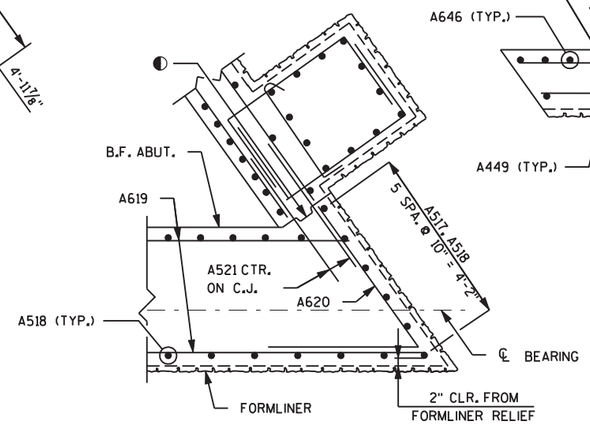
1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

LEGEND

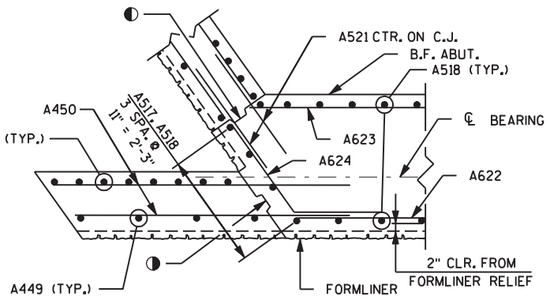
- ● VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8" .
- ○ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- △ BEARING PAD ELASTOMERIC NON-LAMINATED.
- ■ 4" X ¾" FILLER LENGTH OF ABUTMENT.
- ☆ ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.
- (#) GIRDER NUMBER.
- ▬ ½" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF CONCRETE PARAPET. FILLER INCLUDED IN WING LENGTH.
- ◐ VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6", TOP OF FOOTING TO BEAM SEAT.
- ★ A426 - TWO EQUAL SPACES BETWEEN GIRDER BEAM SEATS TYPICAL.
- ▨ A427 - TWO EQUAL SPACES EXTEND A MINIMUM OF 1'-0" INTO GIRDER BEAM SEATS.
- ◭ 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".
- ◑ CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6".
- ◮ PIPE UNDERDRAIN WRAPPED 6-INCH. REFER TO SHEET 16 FOR DETAILS.
- * ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE ℄ OF BEARING.
- ⚠ BAR COUPLER. BAR LENGTHS HAVE BEEN COMPUTED TO THE ℄ OF THE VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS.



PLAN



SECTION B-B



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY PEW | PLANS CK'D. RLD

SOUTH ABUTMENT DETAILS 1

SHEET 6 OF 32
731

8

8

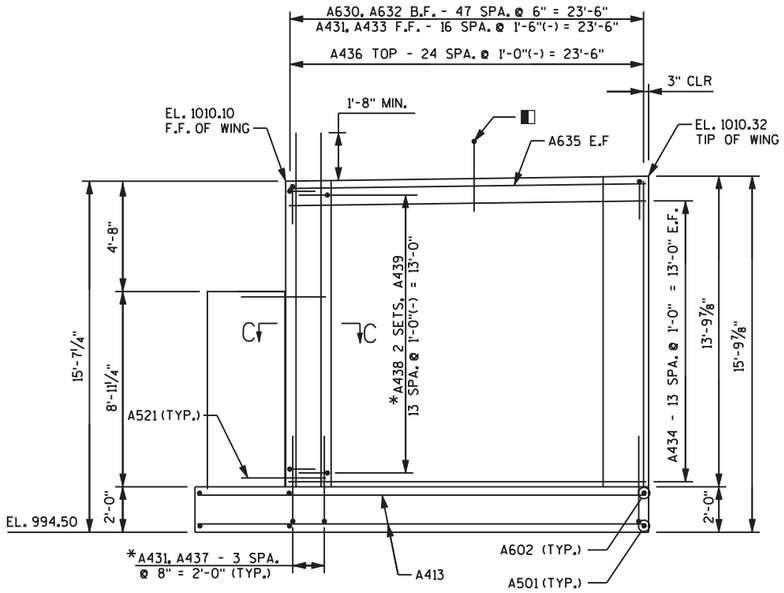
Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080101_sab317.dgn PLOT DATE : 9/18/2013 2:27:07 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

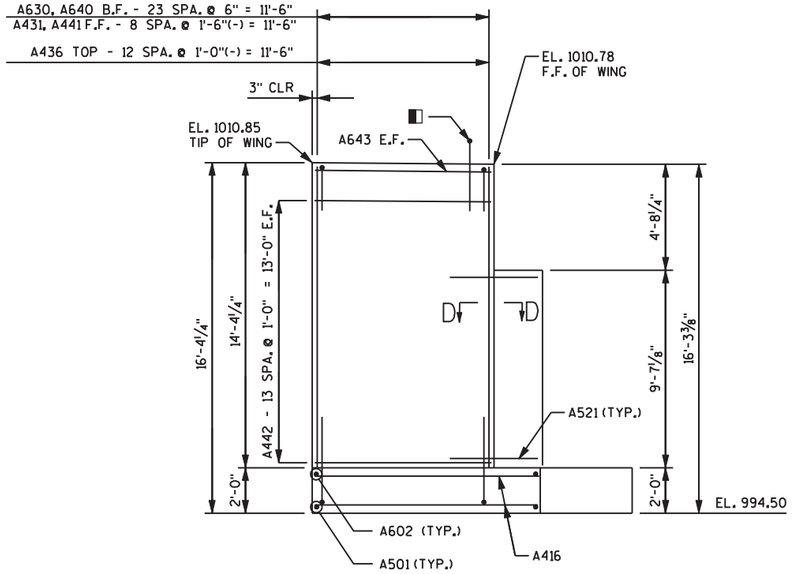
1330-18-70



*REINFORCEMENT SHOWN FOR LEFT PILASTER, RIGHT PILASTER SIMILAR. RIENFORCEMENT IN RIGHT PILASTER OMITTED FOR CLARITY.

ELEVATION WINGWALL 1

(LOOKING EAST)



ELEVATION WINGWALL 2

(LOOKING WEST)

NOTES

1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

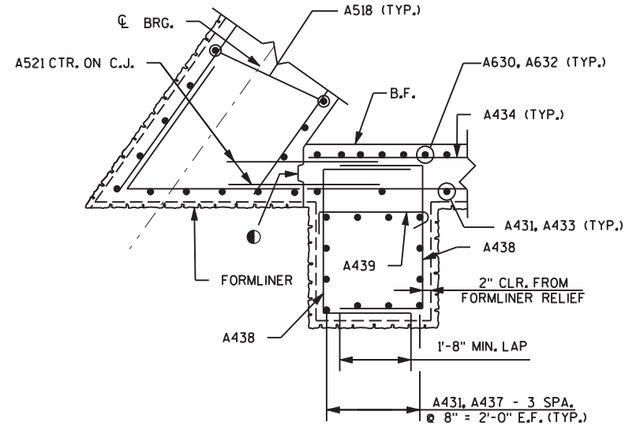
LEGEND

◐ CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6".

◧ REFER TO SHEETS 25 AND 26 FOR THE LOCATION AND SPACING OF THE PARAPET REINFORCEMENT REQUIRED TO BE CAST IN THE STEM.

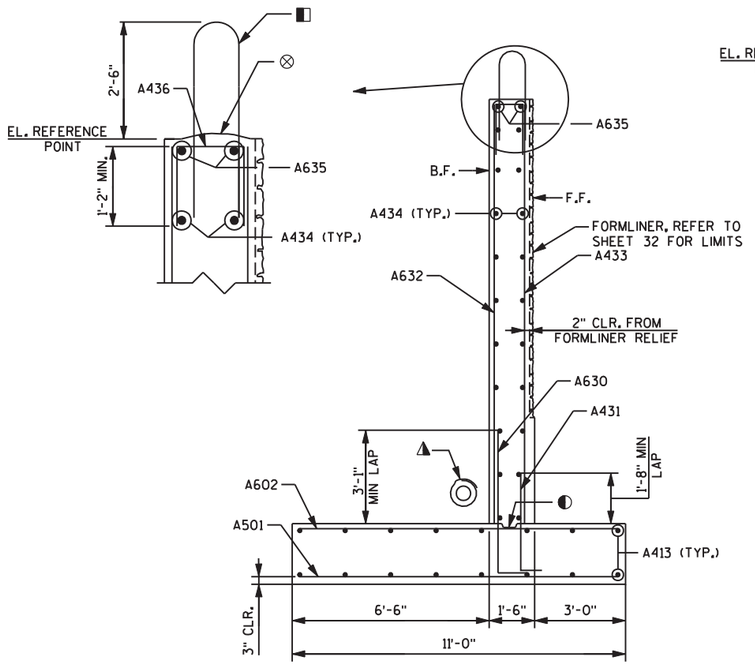
◭ PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MINIMUM.

⊗ STRIKE OFF TOP OF WINGWALL AS SHOWN ON SHEETS 25 AND 26 AND LEAVE ROUGH.

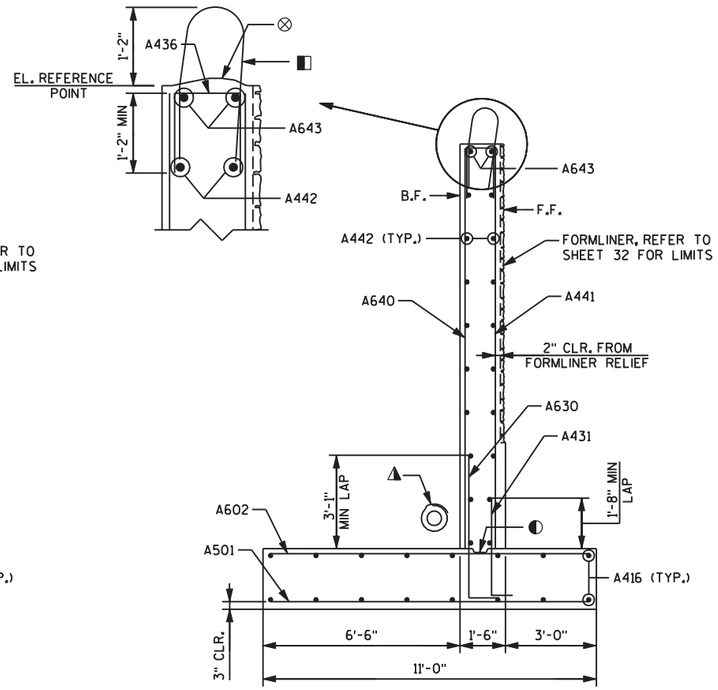


REINFORCEMENT SHOWN FOR LEFT PILASTER, RIGHT PILASTER SIMILAR.

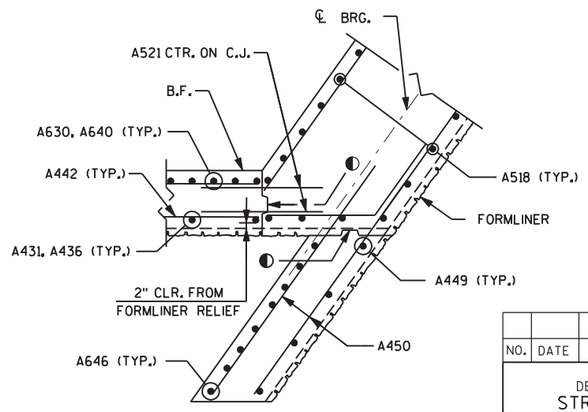
SECTION C-C



WINGWALL 1 SECTION



WINGWALL 2 SECTION



SECTION D-D

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY PEW | PLANS CK'D. RLD

SOUTH ABUTMENT DETAILS 2

SHEET 7 OF 32
732

8

8

Pdf_Dw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080102_sab317.dgn PLOT DATE : 9/18/2013 2:27:10 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE =
SCALE =

STATE PROJECT NUMBER

1330-18-70

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

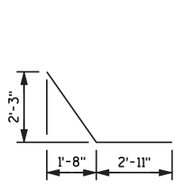
BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
A501		38	10'-8"			WINGWALLS FOOTING TRANSVERSE BOTTOM STAGE 1 & 3
A602		74	10'-8"			WINGWALLS FOOTING TRANSVERSE TOP STAGE 1 & 3
A703		1	7'-2"			ABUTMENT FOOTING TRANSVERSE BOTTOM STAGE 1
A604		1	7'-2"			ABUTMENT FOOTING TRANSVERSE TOP STAGE 1
A705		1	8'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM STAGE 1
A606		1	8'-3"			ABUTMENT FOOTING TRANSVERSE TOP STAGE 1
A707		1	9'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM STAGE 1
A608		1	9'-3"			ABUTMENT FOOTING TRANSVERSE TOP STAGE 1
A709		83	10'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM STAGE 1 & 3
A610		83	10'-3"			ABUTMENT FOOTING TRANSVERSE TOP STAGE 1 & 3
A711		4	7'-5"		Δ	ABUTMENT FOOTING TRANSVERSE BOTTOM STAGE 3
A612		4	7'-5"		Δ	ABUTMENT FOOTING TRANSVERSE TOP STAGE 3
A413		16	20'-3"		Δ	WINGWALL 1 FOOTING LONGITUDINAL TOP & BOTTOM STAGE 1
A514		44	26'-9"			ABUTMENT FOOTING LONGITUDINAL TOP AND BOTTOM STAGE 1
A515		22	16'-10"		Δ	ABUTMENT FOOTING LONGITUDINAL TOP AND BOTTOM STAGE 3
A416		16	9'-10"		Δ	WINGWALL 2 FOOTING LONGITUDINAL TOP & BOTTOM STAGE 3
A517		169	4'-5"	▲		ABUTMENT FOOTING DOWEL E.F. AND SIDES STAGE 1 & 3
A518		169	8'-6"			ABUTMENT VERTICAL E.F. AND SIDES STAGE 1 & 3
A619		44	22'-8"			ABUTMENT HORIZONTAL E.F. RIGHT OF C.J. STAGE 1
A620		10	6'-11"	▲		ABUTMENT END RIGHT OF C.J. STAGE 1
A521	X	42	5'-10"			ABUTMENT ENDS STAGE 1 & 3
A622		13	18'-7"			ABUTMENT HORIZONTAL F.F. LEFT OF C.J. STAGE 3
A623		11	17'-3"			ABUTMENT HORIZONTAL B.F. LEFT OF C.J. STAGE 3
A624		11	5'-9"	▲		ABUTMENT END LEFT OF C.J. STAGE 3
A525		60	7'-2"	▲		ABUTMENT TOP STAGE 1 & 3
A426		24	5'-1"	▲		ABUTMENT TOP BETWEEN BEAM SEATS STAGE 1 & 3
A427		18	6'-11"			ABUTMENT TOP BETWEEN BEAM SEATS STAGE 1 & 3
A528		31	6'-2"	▲		ABUTMENT TOP STAGE 1
A429		4	31'-6"			ABUTMENT TOP STAGE 1
A630	X	72	5'-10"	▲		WW1 STAGE 1 & WW2 STAGE 3 FOOTING DOWEL B.F.
A431	X	50	4'-2"	▲		WW1 & PILASTER STAGE 1, WW2 STAGE 3 FOOTING DOWEL F.F.
A632	X	48	13'-5"			WW1 B.F. VERTICAL STAGE 1
A433	X	17	13'-5"			WW1 F.F. VERTICAL STAGE 1
A434	X	28	23'-8"			WW1 HORIZONTAL E.F STAGE 1
A635	X	2	23'-8"			WW1 TOP HORIZONTAL E.F. STAGE 1
A436	X	38	3'-3"	▲		WW1 STAGE 1 & WW2 STAGE 3 TOP
A437	X	24	15'-9"			PILASTER VERTICAL STAGE 1
A438	X	56	7'-1"	▲		PILASTER TIES STAGE 1
A439	X	28	3'-0"	▲		PILASTER TIE STAGE 1
A640	X	24	14'-0"			WW2 B.F. VERTICAL STAGE 3
A441	X	9	14'-0"			WW2 F.F. VERTICAL STAGE 3
A442	X	28	11'-8"			WW2 HORIZONTAL E.F STAGE 3
A643	X	2	11'-8"			WW2 TOP HORIZONTAL E.F. STAGE 3
A544		8	14'-0"			ABUTMENT FOOTING TRANSVERSE BOTTOM STAGE 3
A745		8	14'-0"			ABUTMENT FOOTING TRANSVERSE TOP STAGE 3
A646	X	8	5'-11"	▲		WALL FOOTING DOWEL B.F. STAGE 3
A447	X	4	4'-3"	▲		WALL FOOTING DOWEL F.F. STAGE 3
A648	X	8	11'-5"			WALL VERTICAL B.F. STAGE 3
A449	X	4	11'-5"			WALL VERTICAL F.F. STAGE 3
A450	X	20	5'-0"			WALL HORIZONTAL E.F. STAGE 3
A451	X	6	3'-4"			WALL HORIZONTAL E.F. STAGE 3
A452	X	5	4'-10"	▲		WALL TOP STAGE 3

Δ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

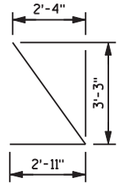
BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
A711	1 SERIES OF 4	5'-10" TO 9'-0"
A612	1 SERIES OF 4	5'-10" TO 9'-0"
A413	2 SERIES OF 8	16'-8" TO 23'-9"
A515	2 SERIES OF 11	13'-3" TO 20'-5"
A416	2 SERIES OF 8	6'-3" TO 13'-4"

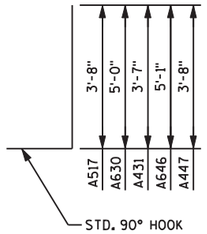
BUNDLE AND TAG EACH SERIES SEPARATELY.



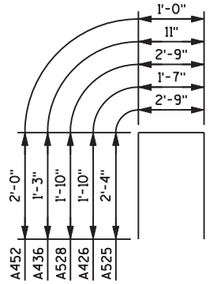
A624



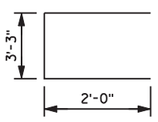
A620



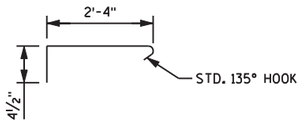
A517, A630, A431, A646, A447



A525, A426, A528, A436, A452



A438



A439

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY PEW | PLANS CK'D. RLD

SOUTH ABUTMENT DETAILS 3

SHEET 8 OF 32
733

8

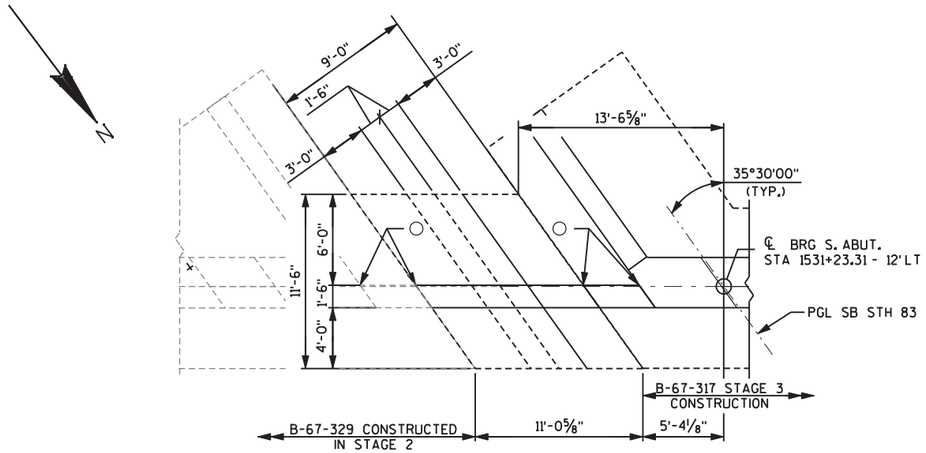
8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

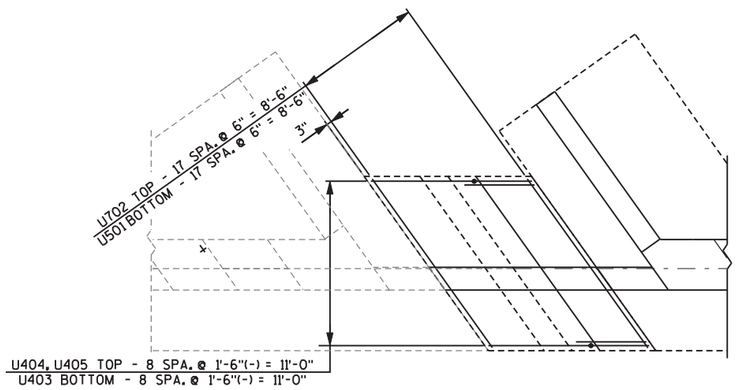
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080103_sab317.dgn PLOT DATE : 9/18/2013 2:27:13 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE=
SCALE =

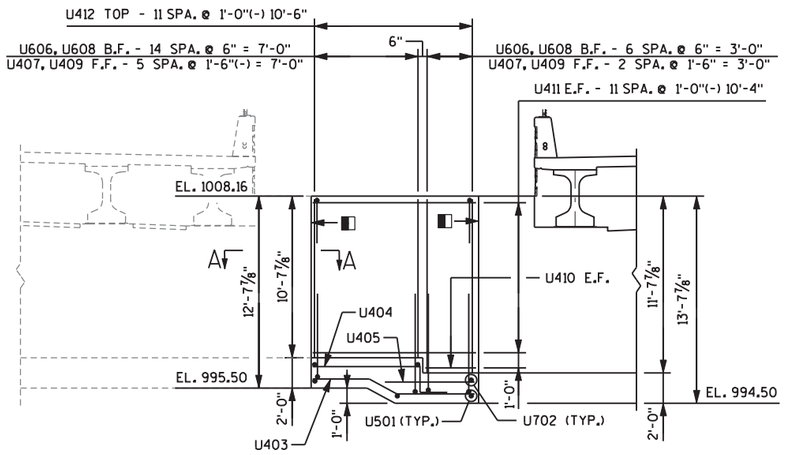
STATE PROJECT NUMBER
1330-18-70



FOUNDATION PLAN

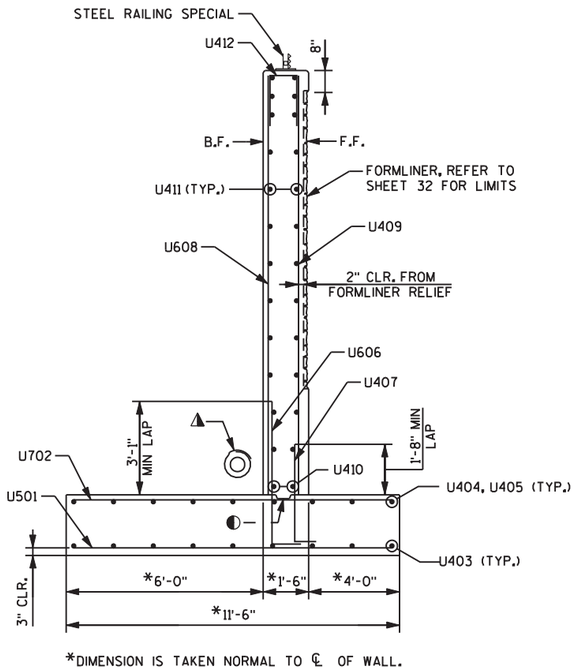


REINFORCEMENT PLAN



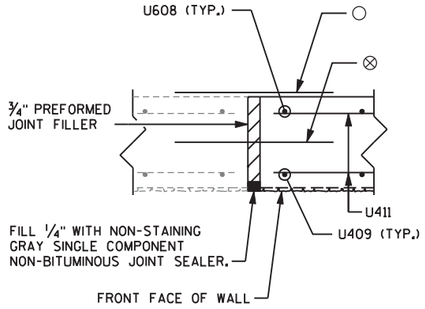
SOUTH RETAINING WALL

(LOOKING SOUTH - SHOWN ALONG F.F. OF WALL
STEEL RAILING SPECIAL OMITTED FOR CLARITY)



*DIMENSION IS TAKEN NORMAL TO ℄ OF WALL.

WALL SECTION



SECTION A-A
EXPANSION JOINT

(RIGHT EXPANSION JOINT OPPOSITE HAND EXCEPT IT WILL BE ACCEPTABLE TO CAST THE DOWELS INTO THE ABUTMENT OR EPOXIED INTO THE ABUTMENT).

NOTES

1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SINGIFIES TO SPACE THE RIENFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

LEGEND

◐ CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6".

▲ PIPE UNDERDRAIN WRAPPED 6-INCH, REFER TO SHEET 16 FOR DETAILS.

◧ ¾" EXPANSION JOINT. SEE SECTION A-A THIS SHEET.

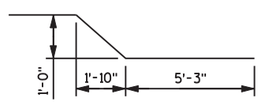
⊗ ¾" DIA. X 1'-6" SMOOTH EPOXY COATED DOWEL PLACED AT 2'-0" CENTERS VERTICALLY MID-DEPTH IN THE WALL. CENTER DOWEL ON JOINT. DOWELS SHALL BE LIGHTLY COATED WITH A DEBONDING AGENT SURFACE TREATMENT OVER ½ THE DOWEL LENGTH INTO NEW CONSTRUCTION AND ANCHORED INTO EXISTING CONCRETE WITH ADHESIVE. THE COST FOR FURNISHING AND INSTALLING THE DOWEL SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "MASONRY ANCHORS TYPE L NO. 6 BARS".

○ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL VERTICAL JOINTS ON BACKFACE.

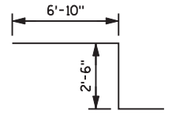
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

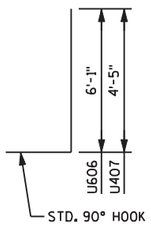
BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	LOCATION
U501		18	13'-8"		WALL FOOTING LONGITUDINAL BOTTOM STAGE 3
U702		18	13'-8"		WALL FOOTING LONGITUDINAL TOP STAGE 3
U403		9	10'-8"	▲	WALL FOOTING TRANSVERSE BOTTOM STAGE 3
U404		9	10'-4"	▲	WALL FOOTING TRANSVERSE TOP STAGE 3
U405		9	4'-8"		WALL FOOTING TRANSVERSE TOP STAGE 3
U606	X	22	6'-11"	▲	WALL FOOTING DOWEL B.F. STAGE 3
U407	X	9	5'-0"	▲	WALL FOOTING DOWEL F.F. STAGE 3
U608	X	22	10'-5"		WALL VERTICAL B.F. STAGE 3
U409	X	9	10'-5"		WALL VERTICAL F.F. STAGE 3
U410	X	2	3'-2"		WALL HORIZONTAL E.F. STAGE 3
U411	X	24	10'-6"		WALL HORIZONTAL E.F. STAGE 3
U412	X	12	4'-10"	▲	WALL TOP STAGE 3



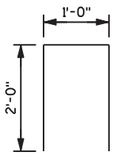
U403



U404



U606, U407



U412

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY PEW | PLANS CK'D. RLD

SOUTH RETAINING WALL

SHEET 9 OF 32
734

8

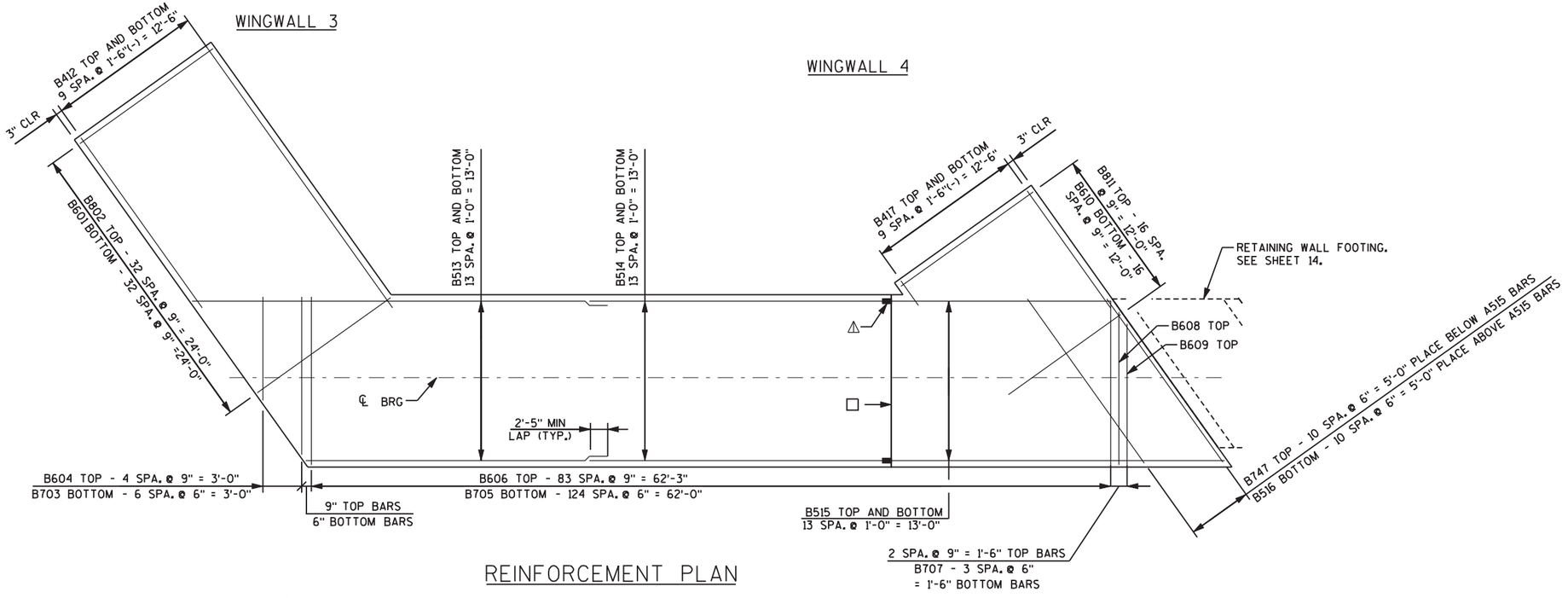
8

Pdf_Dw_HS.plt
PEI_Text+Sub.tbl

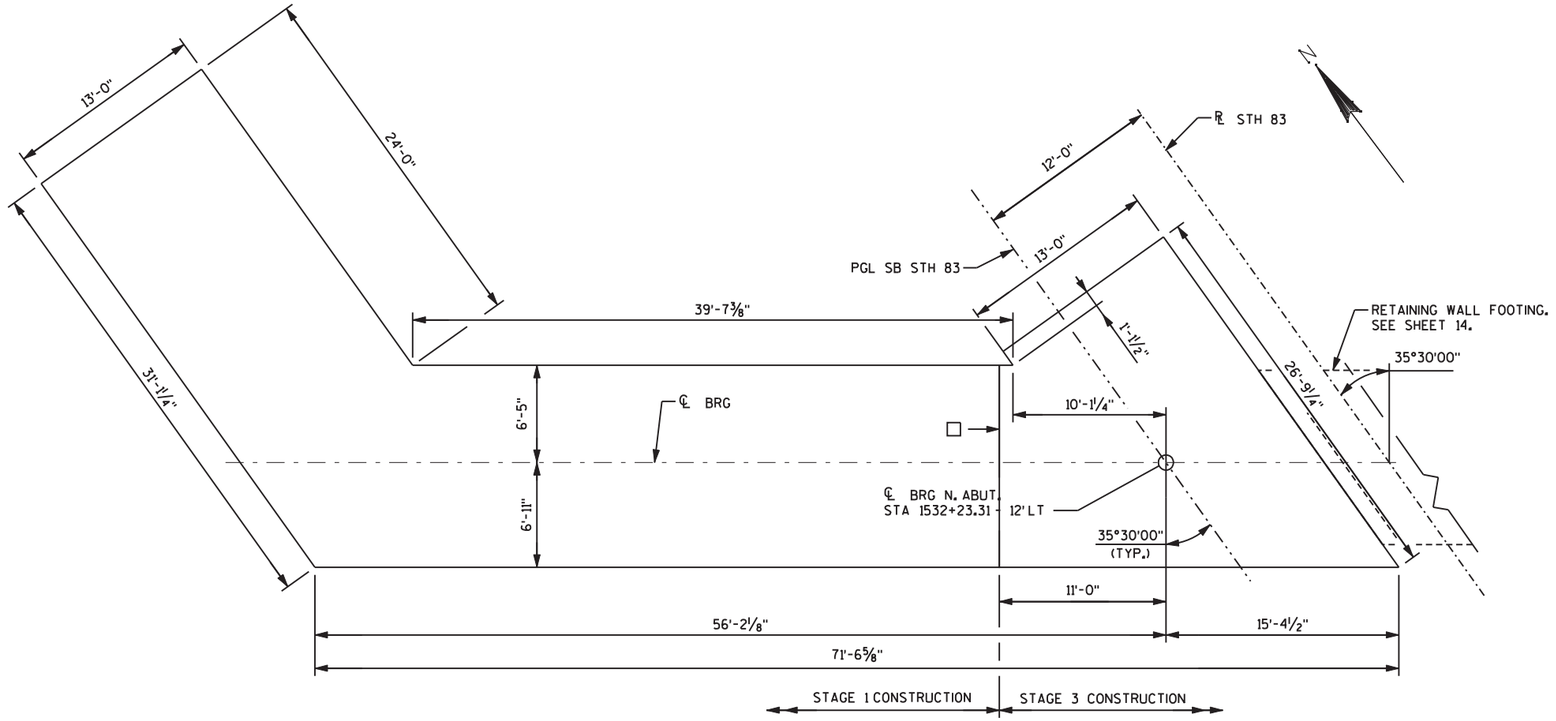
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080104_srw317.dgn PLOT DATE : 9/18/2013 2:27:15 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE= SCALE =

STATE PROJECT NUMBER
1330-18-70



REINFORCEMENT PLAN



FOUNDATION PLAN

NOTES

1. ABUTMENTS WITH SPREAD FOOTINGS TO BE SUPPORTED ON CLEAN UNDISTURBED SOIL WITH A REQUIRED FACTORED BEARING RESISTANCE OF 5,400 PSF. A GEOTECHNICAL ENGINEER WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE ABUTMENT FOOTING.
2. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.
3. REFER TO SHEETS 11 AND 12 FOR THE LOCATION AND SPACING OF THE REINFORCEMENT DOWELS REQUIRED TO BE CAST IN THE FOOTING.

LEGEND

☐ VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8".

⚠ BAR COUPLER. BAR LENGTHS HAVE BEEN COMPUTED TO THE ℄ OF THE VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY PEW | PLANS CK'D. RLD

NORTH ABUTMENT

SHEET 10 OF 32
735

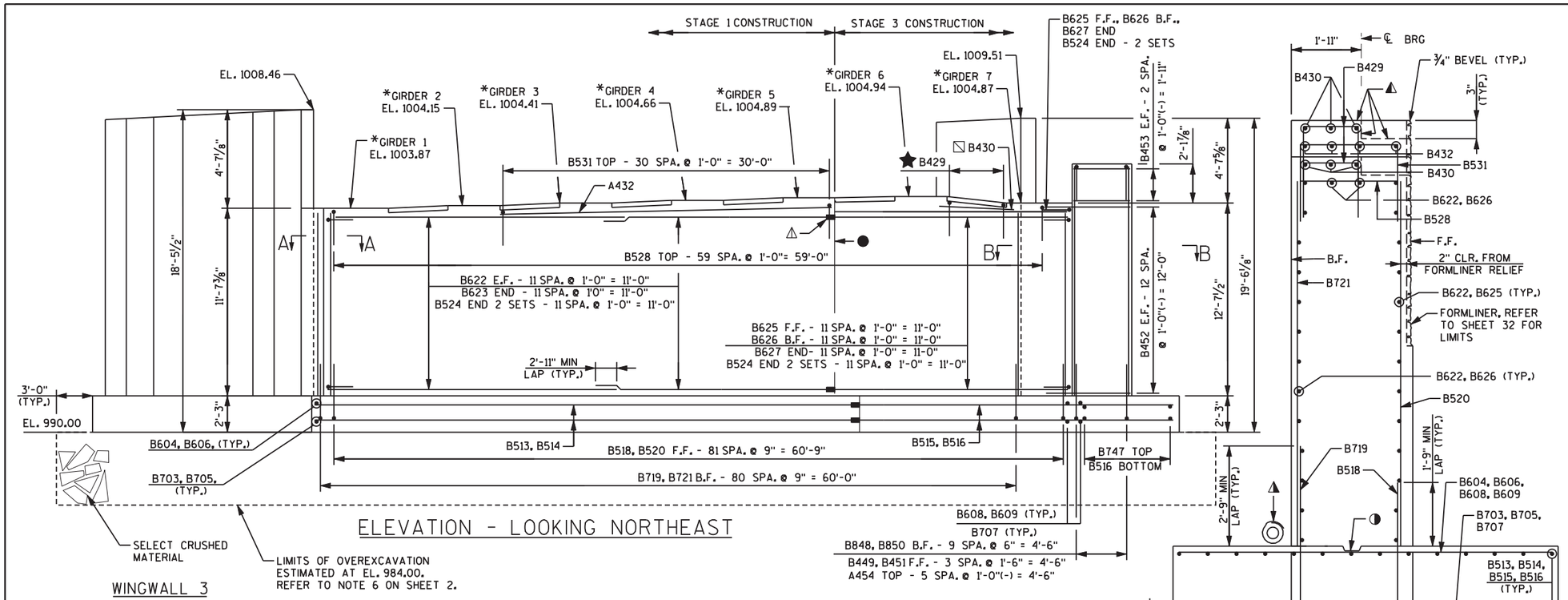
Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080120_nab317.dgn PLOT DATE : 9/18/2013 2:27:17 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



ELEVATION - LOOKING NORTHEAST

SECTION THRU ABUTMENT BODY

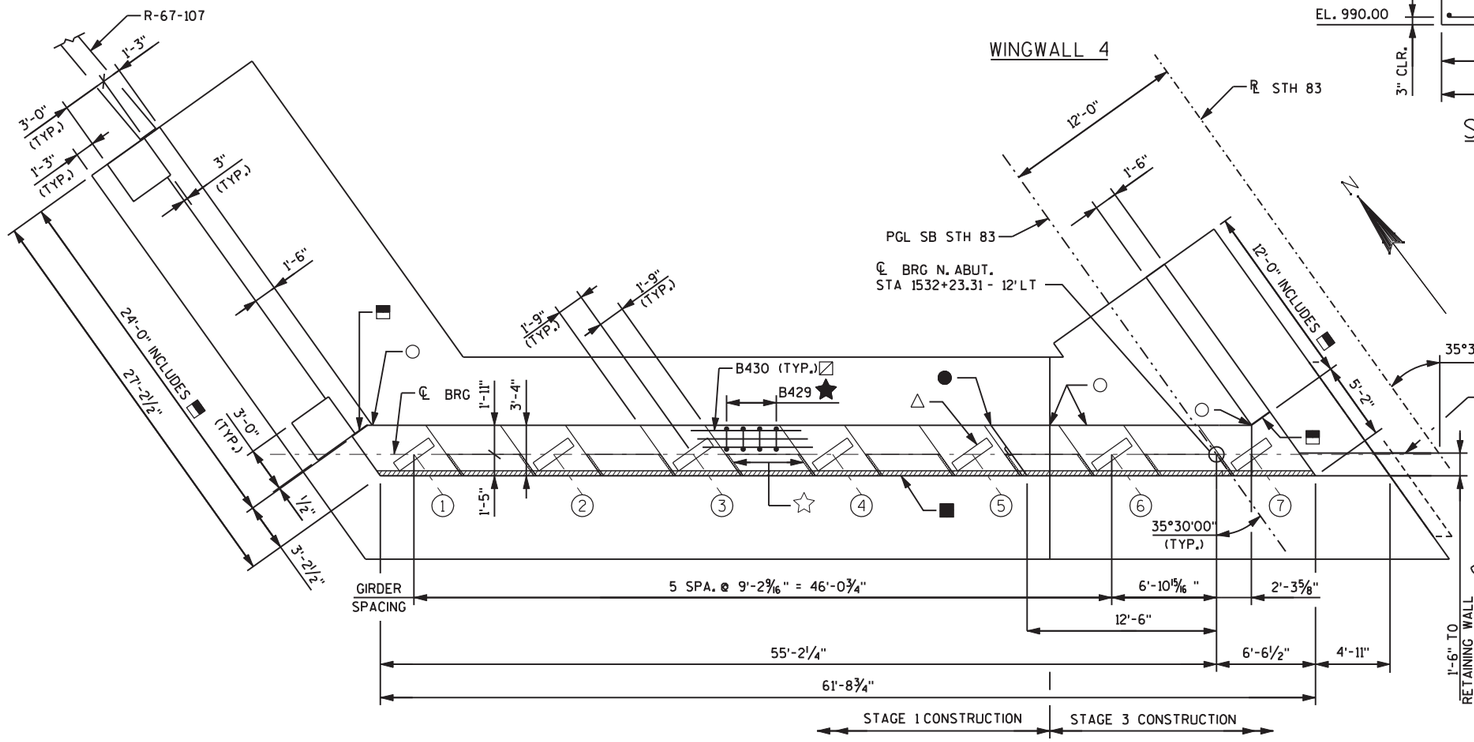
NOTES

1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

LEGEND

- ● VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8" .
- ○ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- △ BEARING PAD ELASTOMERIC NON-LAMINATED.
- ■ 4" X ¾" FILLER LENGTH OF ABUTMENT.
- ☆ ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.
- (#) GIRDER NUMBER.
- ▬ ½" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF CONCRETE PARAPET. FILLER INCLUDED IN WING LENGTH.
- ◐ VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6", TOP OF FOOTING TO BEAM SEAT.
- ★ B429 - TWO EQUAL SPACES BETWEEN GIRDER BEAM SEATS TYPICAL.
- ▨ B430 - TWO EQUAL SPACES EXTEND A MINIMUM OF 1'-0" INTO GIRDER BEAM SEATS.
- ⚠ 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".
- ◑ CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6".
- ⚠ PIPE UNDERDRAIN WRAPPED 6-INCH, REFER TO SHEET 16 FOR DETAILS.
- * ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE ℄ OF BEARING.
- ⚠ BAR COUPLER. BAR LENGTHS HAVE BEEN COMPUTED TO THE ℄ OF THE VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS.

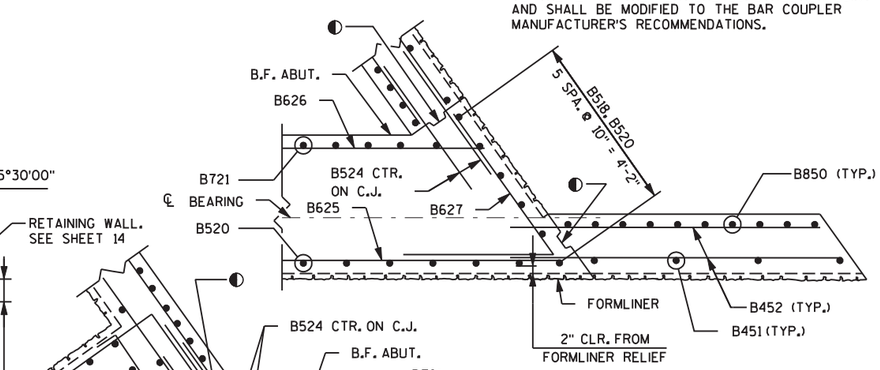
WINGWALL 3



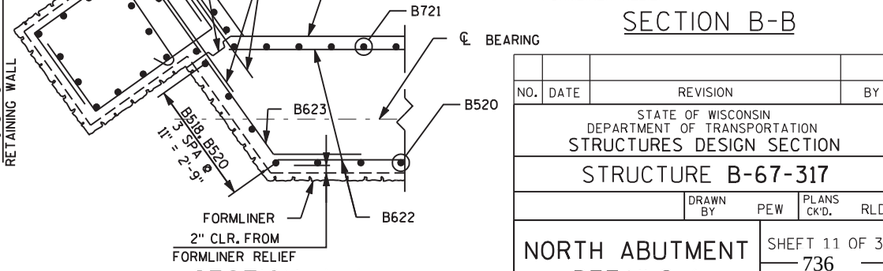
WINGWALL 4

PLAN

SECTION B-B



SECTION A-A



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE **B-67-317**

DRAWN BY PEW | PLANS CK'D. RLD

NORTH ABUTMENT DETAILS 1

SHEET 11 OF 32
736

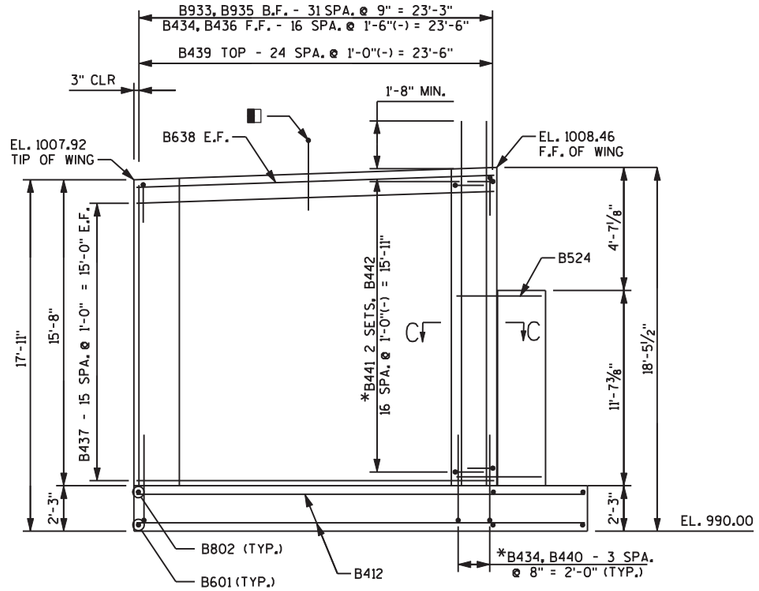
8

8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080121_nab317.dgn PLOT DATE : 9/18/2013 2:27:18 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

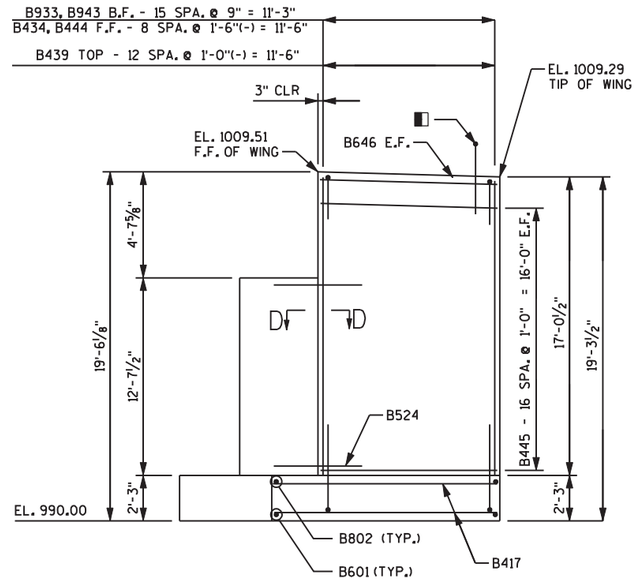
FILE=
SCALE =



*REINFORCEMENT SHOWN FOR RIGHT PILASTER, LEFT PILASTER SIMILAR.
RIENFORCEMENT IN LEFT PILASTER OMITTED FOR CLARITY.

ELEVATION WINGWALL 3

(LOOKING EAST)



ELEVATION WINGWALL 4

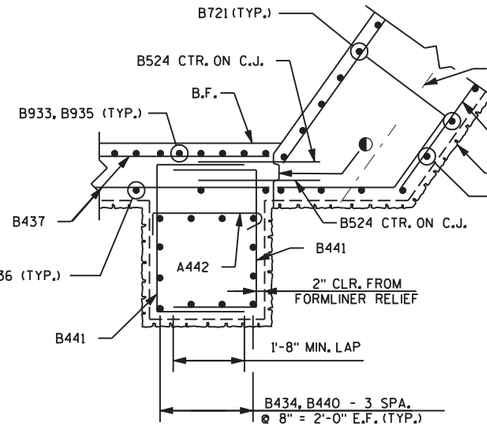
(LOOKING WEST)

NOTES

1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

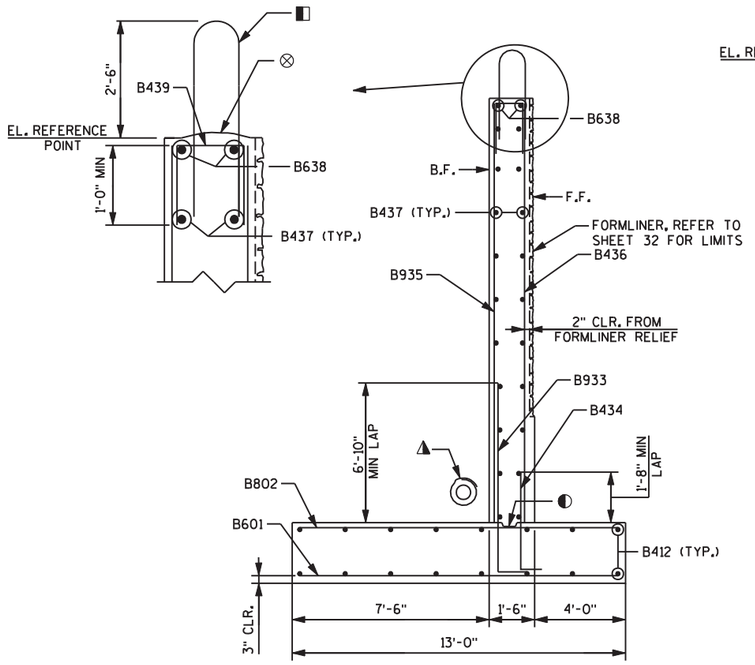
LEGEND

- ◐ CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6".
- ◧ REFER TO SHEETS 25 AND 26 FOR THE LOCATION AND SPACING OF THE PARAPET REINFORCEMENT REQUIRED TO BE CAST IN THE STEM.
- ◭ PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MINIMUM.
- ⊗ STRIKE OFF TOP OF WINGWALL AS SHOWN ON SHEETS 25 AND 26 AND LEAVE ROUGH.

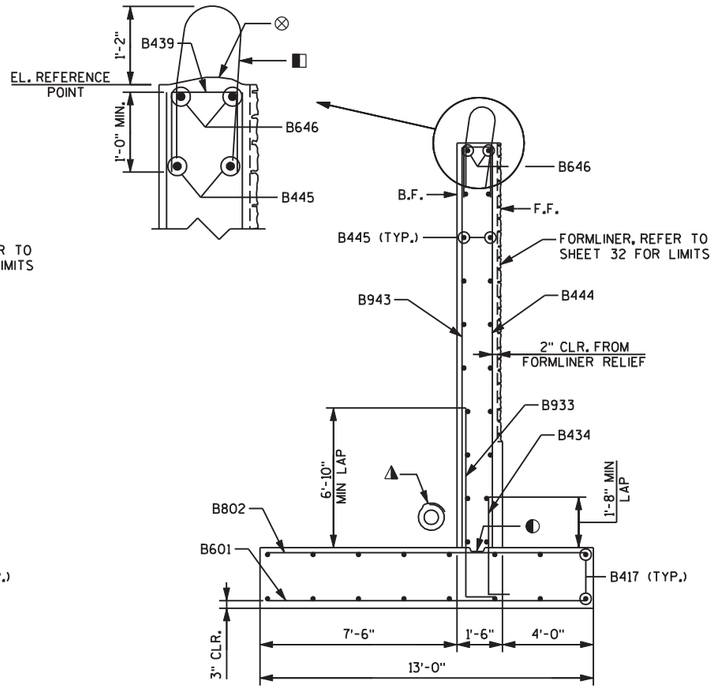


REINFORCEMENT SHOWN FOR RIGHT PILASTER, LEFT PILASTER SIMILAR.

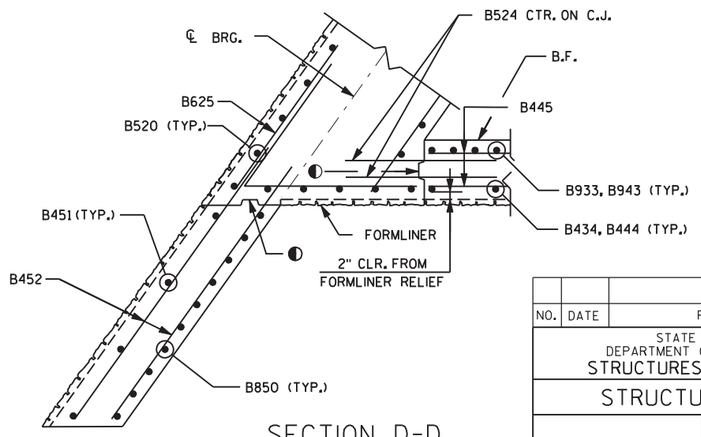
SECTION C-C



WINGWALL 3 SECTION



WINGWALL 4 SECTION



SECTION D-D

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE **B-67-317**

DRAWN BY PEW | PLANS CK'D. RLD

NORTH ABUTMENT DETAILS 2

SHEET 12 OF 32
737

STATE PROJECT NUMBER
1330-18-70

8

8

Pdf_Dw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080122_nab317.dgn PLOT DATE : 9/18/2013 2:27:21 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

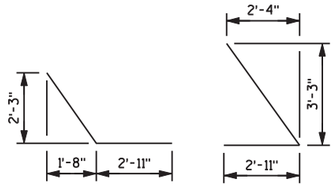
BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
B601		33	12'-8"			WW 3 FOOTING TRANSVERSE BOTTOM STAGE 1
B802		33	12'-8"			WW 3 FOOTING TRANSVERSE TOP STAGE 1
B703		7	10'-5"		Δ	ABUTMENT FOOTING TRANSVERSE BOTTOM STAGE 1
B604		5	9'-9"		Δ	ABUTMENT FOOTING TRANSVERSE TOP STAGE 1
B705		125	13'-0"			ABUTMENT FOOTING TRANSVERSE BOTTOM STAGE 1 & 3
B606		84	13'-0"			ABUTMENT FOOTING TRANSVERSE TOP STAGE 1 & 3
B707		4	11'-5"		Δ	ABUTMENT FOOTING TRANSVERSE BOTTOM STAGE 3
B608		1	11'-3"			ABUTMENT FOOTING TRANSVERSE TOP STAGE 3
B609		1	10'-2"			ABUTMENT FOOTING TRANSVERSE TOP STAGE 3
B610		17	12'-8"			WW 4 FOOTING TRANSVERSE BOTTOM STAGE 3
B811		17	12'-8"			WW 4 FOOTING TRANSVERSE TOP STAGE 3
B412		20	20'-5"		Δ	WW 3 FOOTING LONGITUDINAL TOP & BOTTOM STAGE 1
B513		28	28'-4"		Δ	ABUTMENT FOOTING LONGITUDINAL TOP AND BOTTOM STAGE 1
B514		28	23'-11"			ABUTMENT FOOTING LONGITUDINAL TOP AND BOTTOM STAGE 1
B515		28	21'-4"		Δ	ABUTMENT FOOTING LONGITUDINAL TOP AND BOTTOM STAGE 3
B516		11	15'-9"			ABUTMENT FOOTING TRANSVERSE BOTTOM STAGE 3
B417		20	6'-11"		Δ	WW 4 FOOTING LONGITUDINAL TOP & BOTTOM STAGE 3
B518		90	4'-8"	▲		ABUTMENT FOOTING DOWEL F.F. AND SIDES STAGE 1 & 3
B719		81	5'-11"	▲		ABUTMENT FOOTING DOWEL B.F. STAGE 1 & 3
B520		90	11'-4"			ABUTMENT VERTICL F.F. AND SIDES STAGE 1 & 3
B721		81	11'-4"			ABUTMENT VERTICL B.F. STAGE 1 & 3
B622		52	22'-8"			ABUTMENT HORIZONTAL E.F. LEFT OF C.J. STAGE 1
B623		12	5'-9"	▲		ABUTMENT END L;EFT OF C.J. STAGE 1
B524	X	50	5'-10"			ABUTMENT ENDS STAGE 1 & 3
B625		15	18'-8"			ABUTMENT HORIZONTAL F.F. RIGHT OF C.J. STAGE 3
B626		13	18'-8"			ABUTMENT HORIZONTAL B.F. RIGHT OF C.J. STAGE 3
B627		13	6'-11"	▲		ABUTMENT END RIGHT OF C.J. STAGE 3
B528		60	7'-6"	▲		ABUTMENT TOP STAGE 1 & 3
B429		24	5'-7"	▲		ABUTMENT TOP BETWEEN BEAM SEATS STAGE 1 & 3
B430		18	6'-11"			ABUTMENT TOP BETWEEN BEAM SEATS STAGE 1 & 3
B531		31	6'-8"	▲		ABUTMENT TOP STAGE 1
B432		4	31'-6"			ABUTMENT TOP STAGE 1
B933	X	48	10'-2"	▲		WW3 STAGE 1 & WW4 STAGE 3 FOOTING DOWEL B.F.
B434	X	50	4'-5"	▲		WW3 & PILASTER STAGE 1, WW4 STAGE 3 FOOTING DOWEL F.F.
B935	X	32	15'-6"			WW3 B.F. VERTICAL STAGE 1
B436	X	17	15'-6"			WW3 F.F. VERTICAL STAGE 1
B437	X	32	23'-8"			WW3 HORIZONTAL E.F STAGE 1
B638	X	2	23'-8"			WW3 TOP HORIZONTAL E.F. STAGE 1
B439	X	38	3'-9"	▲		WW3 STAGE 1 & WW2 STAGE 3 TOP
B440	X	24	18'-2"			PILASTER VERTICAL STAGE 1
B441	X	68	7'-1"	▲		PILASTER TIES STAGE 1
B442	X	34	3'-0"	▲		PILASTER TIE STAGE 1
B943	X	16	16'-10"			WW4 B.F. VERTICAL STAGE 3
B444	X	9	16'-10"			WW4 F.F. VERTICAL STAGE 3
B445	X	34	11'-8"			WW4 HORIZONTAL E.F STAGE 3
B646	X	2	11'-8"			WW4 TOP HORIZONTAL E.F. STAGE 3
B747		11	15'-9"			ABUTMENT FOOTING TRANSVERSE TOP STAGE 3
B848	X	10	8'-10"	▲		WALL FOOTING DOWEL B.F. STAGE 3
B449	X	4	4'-3"	▲		WALL FOOTING DOWEL F.F. STAGE 3
B850	X	10	14'-7"			WALL VERTICAL B.F. STAGE 3
B451	X	4	14'-7"			WALL VERTICAL F.F. STAGE 3
B452	X	26	6'-4"			WALL HORIZONTAL E.F. STAGE 3
B453	X	6	5'-8"			WALL HORIZONTAL E.F. STAGE 3
B454	X	6	2'-10"	▲		WALL TOP STAGE 3

Δ 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

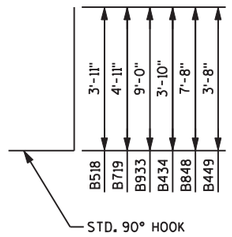
MARK	NO. REQ'D	LENGTH
B703	1 SERIES OF 7	8'-4" TO 12'-6"
B604	1 SERIES OF 5	7'-8" TO 11'-10"
B707	1 SERIES OF 4	10'-5" TO 12'-6"
B412	2 SERIES OF 10	15'-11" TO 24'-11"
B513	2 SERIES OF 14	23'-9" TO 32'-11"
B515	2 SERIES OF 14	16'-8" TO 25'-11"
B417	2 SERIES OF 10	2'-4" TO 11'-5"

BUNDLE AND TAG EACH SERIES SEPARATELY.

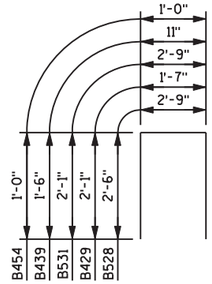


B623

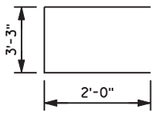
B627



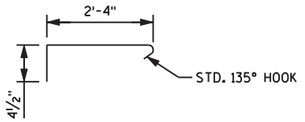
B518, B719, B933, B434, B848, B449



B528, B429, B531, B439, B454



B441



B442

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY PEW | PLANS CK'D. RLD

NORTH ABUTMENT DETAILS 3

SHEET 13 OF 32
738

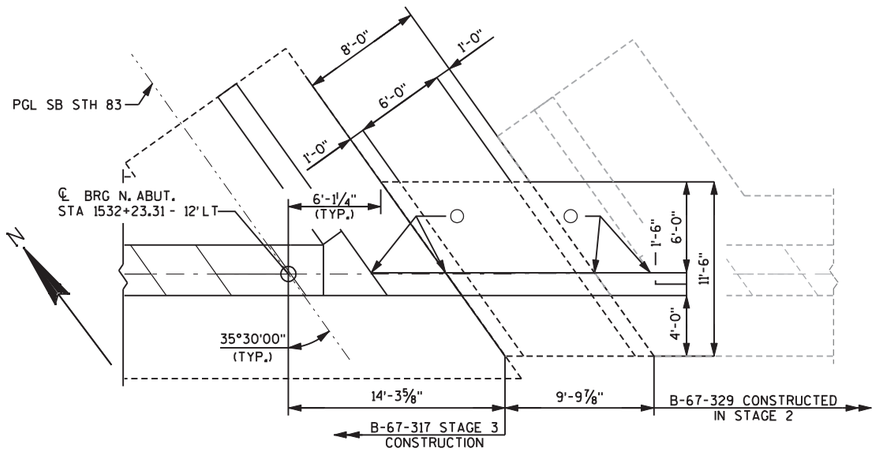
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080123_nab317.dgn PLOT DATE : 9/18/2013 2:27:24 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

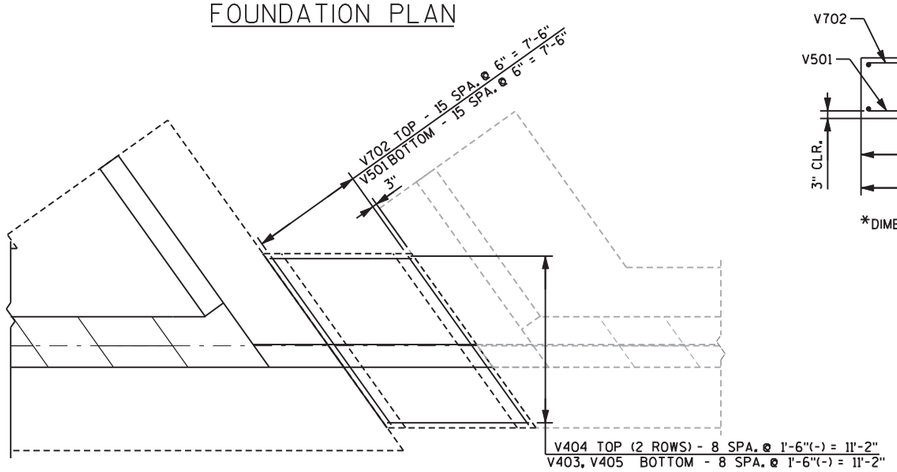
FILE= SCALE =

STATE PROJECT NUMBER

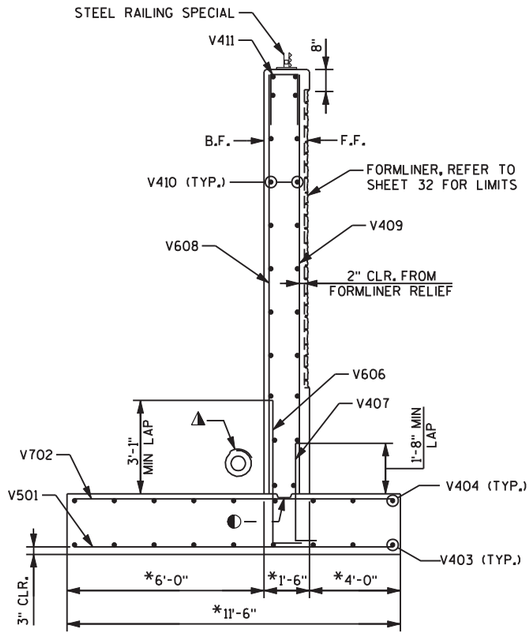
1330-18-70



FOUNDATION PLAN

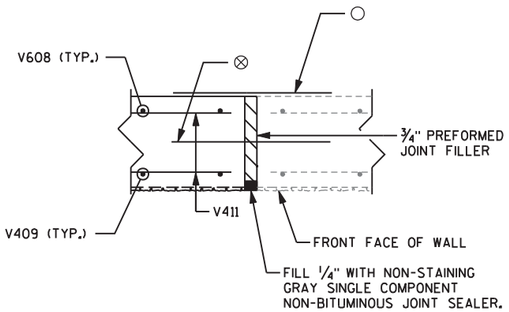


REINFORCEMENT PLAN



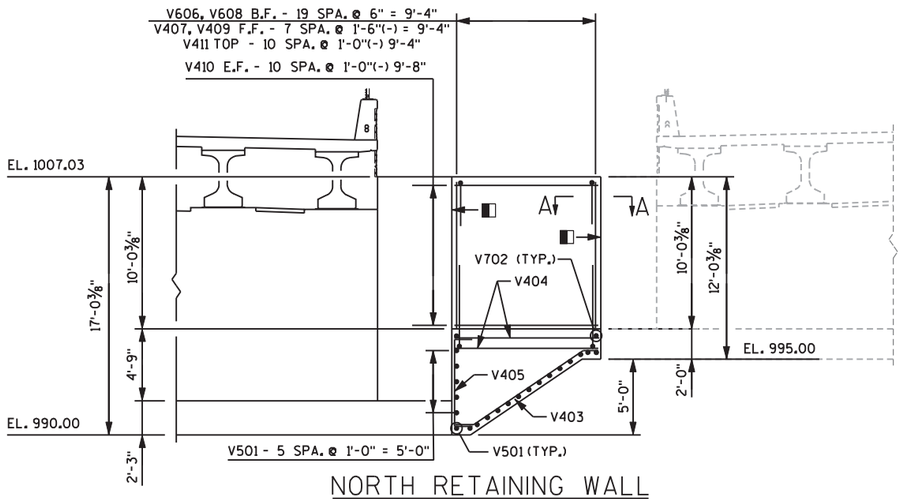
*DIMENSION IS TAKEN NORMAL TO ℄ OF WALL.

WALL SECTION



SECTION A-A
EXPANSION JOINT

(LEFT EXPANSION JOINT OPPOSITE HAND EXCEPT IT WILL BE ACCEPTABLE TO CAST THE DOWELS INTO THE ABUTMENT OR EPOXIED INTO THE ABUTMENT.)



NORTH RETAINING WALL

(LOOKING NORTH - SHOWN ALONG F.F. OF WALL)

NOTES

1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SINGIFIES TO SPACE THE RIENFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

LEGEND

◐ CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6".

▲ PIPE UNDERDRAIN WRAPPED 6-INCH, REFER TO SHEET 16 FOR DETAILS.

◧ ¾" EXPANSION JOINT. SEE SECTION A-A THIS SHEET.

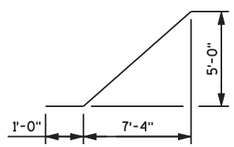
⊗ ¾" DIA. X 1'-6" SMOOTH EPOXY COATED DOWEL PLACED AT 2'-0" CENTERS VERTICALLY MID-DEPTH IN THE WALL. CENTER DOWEL ON JOINT. DOWELS SHALL BE LIGHTLY COATED WITH A DEBONDING AGENT SURFACE TREATMENT OVER ½ THE DOWEL LENGTH INTO NEW CONSTRUCTION AND ANCHORED INTO EXISTING CONCRETE WITH ADHESIVE. THE COST FOR FURNISHING AND INSTALLING THE DOWEL SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "MASONRY ANCHORS TYPE L NO. 6 BARS".

○ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL VERTICAL JOINTS ON BACKFACE.

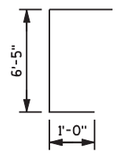
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

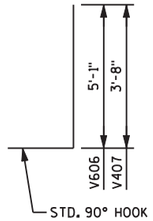
BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	LOCATION
V501		21	13'-8"		WALL FOOTING TRANSVERSE BOTTOM STAGE 3
V702		16	13'-8"		WALL FOOTING TRANSVERSE TOP STAGE 3
V403		9	10'-9"	▲	WALL FOOTING LONGITUDINAL BOTTOM STAGE 3
V404		18	9'-5"		WALL FOOTING LONGITUDINAL TOP STAGE 3
V405		9	8'-6"	▲	WALL FOOTING VERTICAL STAGE 3
V606	X	20	5'-11"	▲	WALL FOOTING DOWEL B.F. STAGE 3
V407	X	8	4'-3"	▲	WALL FOOTING DOWEL F.F. STAGE 3
V608	X	20	9'-9"		WALL VERTICAL B.F. STAGE 3
V409	X	8	9'-9"		WALL VERTICAL F.F. STAGE 3
V410	X	22	9'-4"		WALL HORIZONTAL E.F. STAGE 3
V411	X	11	2'-10"		WALL TOP STAGE 3



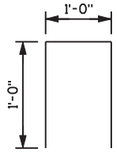
V403



V405



V606, V407



V411

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY PEW | PLANS CK'D. RLD

NORTH RETAINING WALL

SHEET 14 OF 32
739

8

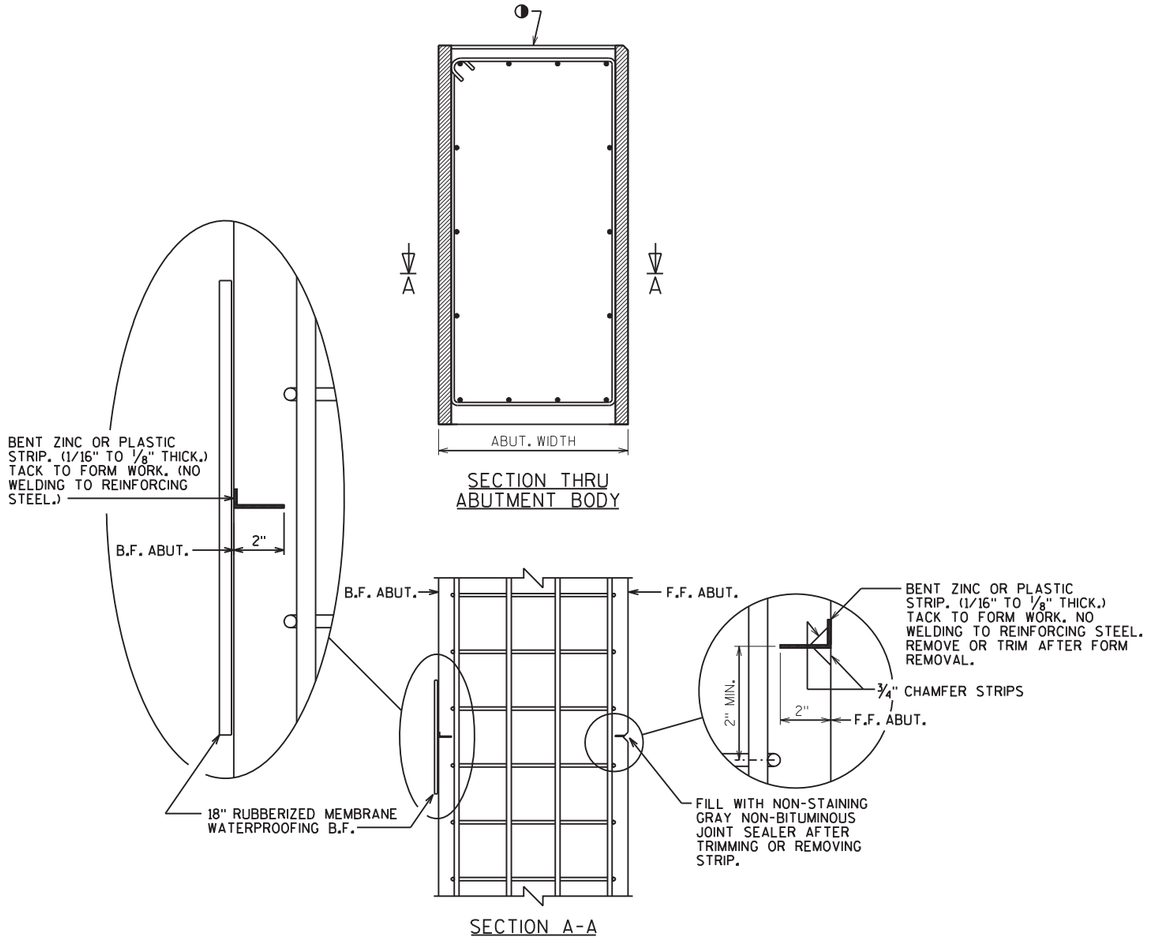
8

Pdf_Dw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080125_nrw317.dgn PLOT DATE : 9/18/2013 2:27:25 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE= SCALE =

STATE PROJECT NUMBER
1330-18-70



SECTION THRU ABUTMENT BODY

SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY	JRM	PLANS CK'D.	RLD

ALTERNATE CONSTRUCTION JOINT

SHEET 15 OF 32
740

8

8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

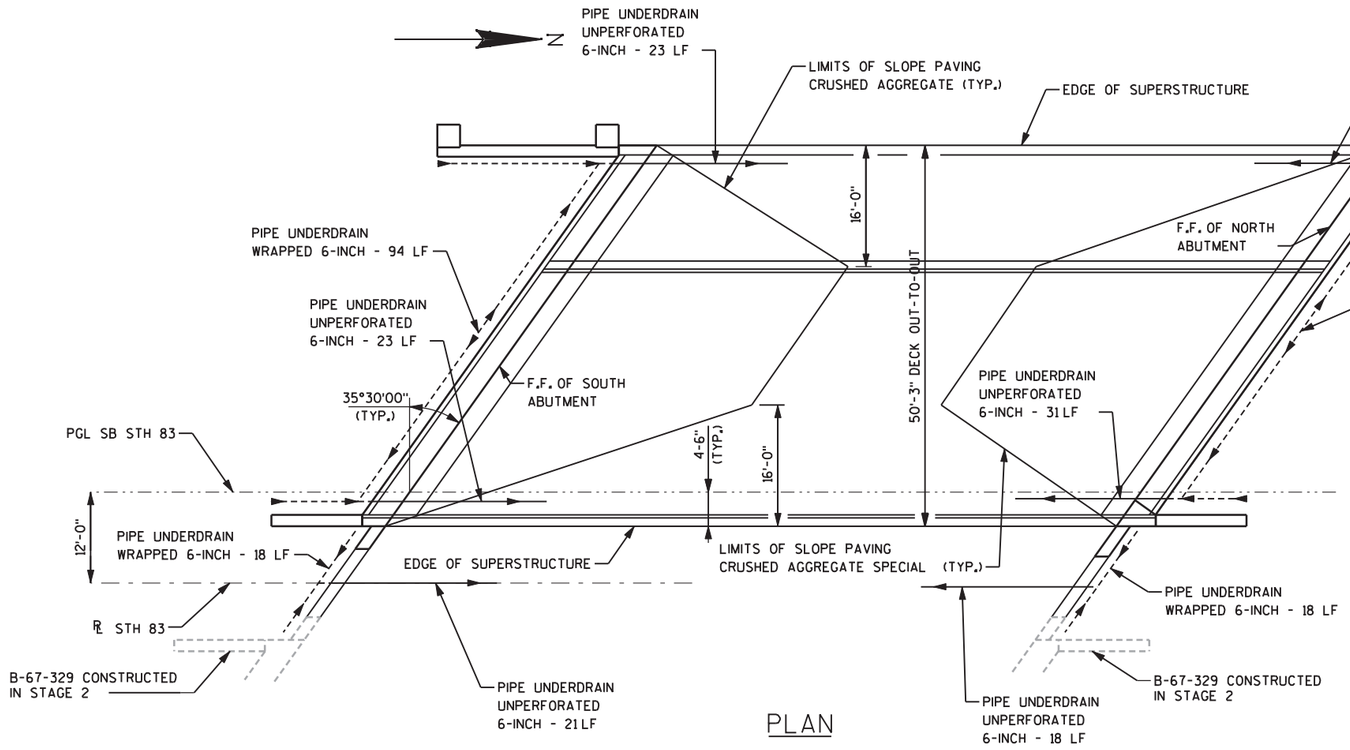
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080124_nab317.dgn PLOT DATE : 9/18/2013 2:27:27 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

FILE=
SCALE =

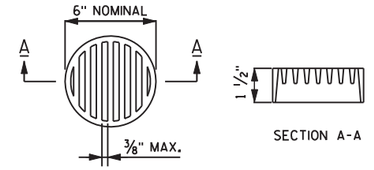
STATE PROJECT NUMBER
1330-18-70

NOTES

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS
2. SLOPE UNDERDRAINS A MINIMUM OF 0.5% TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN..

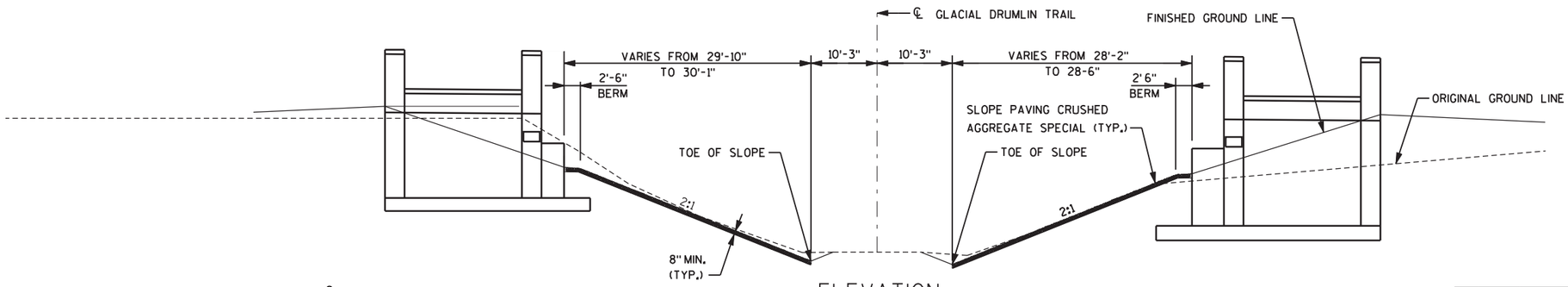


PLAN



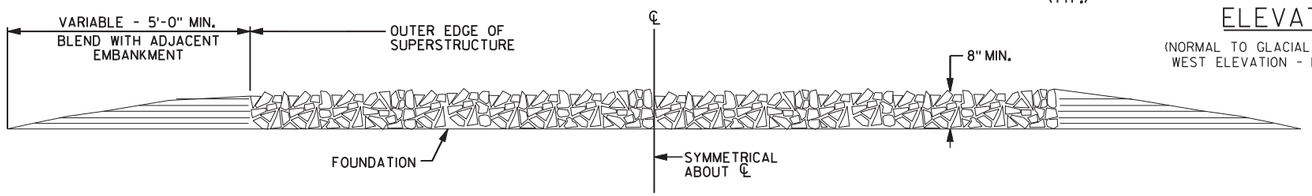
RODENT SHIELD

1. 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 THREE OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.
2. ORIENT SHIELD SO THE SLOTS ARE VERTICAL.
3. DIMENSIONS SHOWN ARE APPROXIMATE. THE GRATE SHALL BE SIZED TO FIT INTO A PIPE COUPLING.
4. THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.



ELEVATION

(NORMAL TO GLACIAL DRUMLIN TRAIL
WEST ELEVATION - LOOKING WEST)



SECTION ALONG ABUTMENT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JIJ | PLANS CK'D. RLD

SLOPE PROTECTION

SHEET 16 OF 32
741

8

8

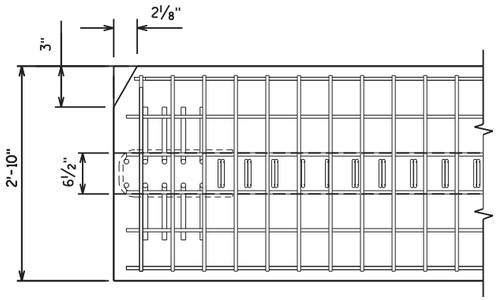
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080140_sp317.dgn PLOT DATE : 9/18/2013 2:27:28 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 sf / IN.

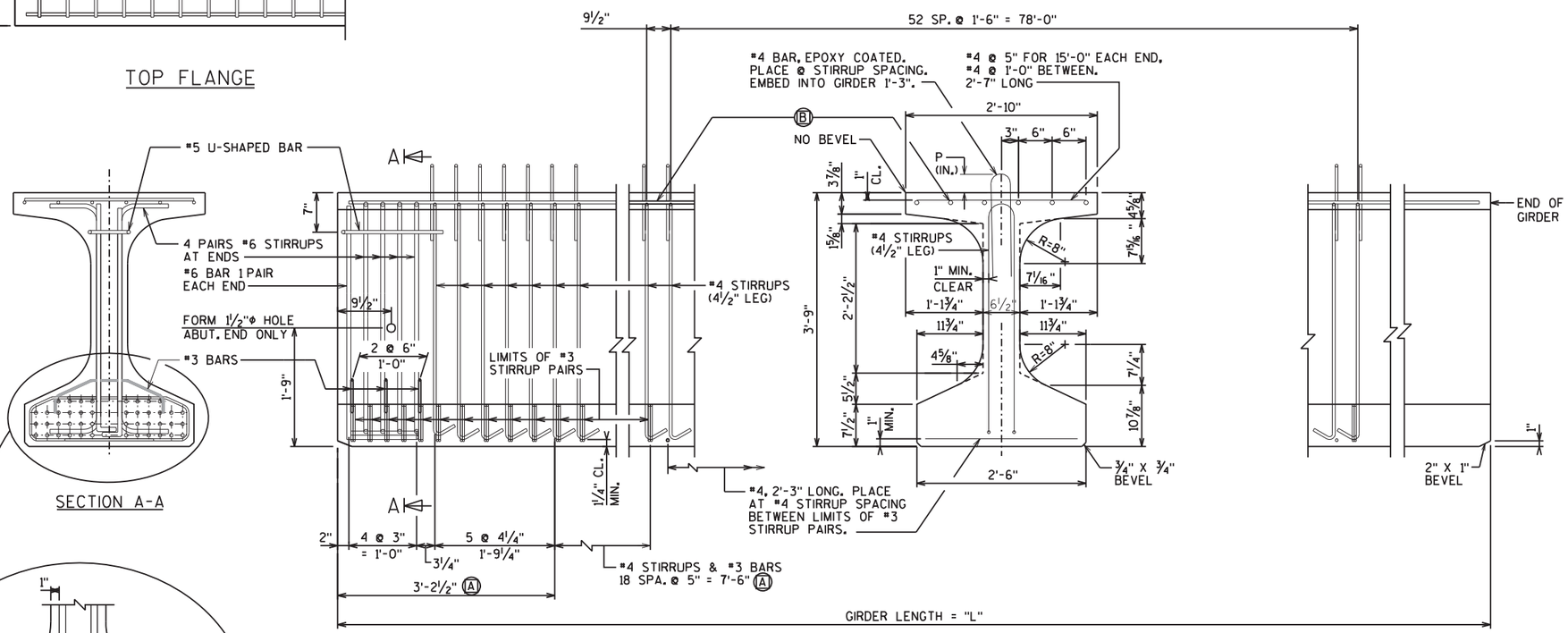
FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



TOP FLANGE

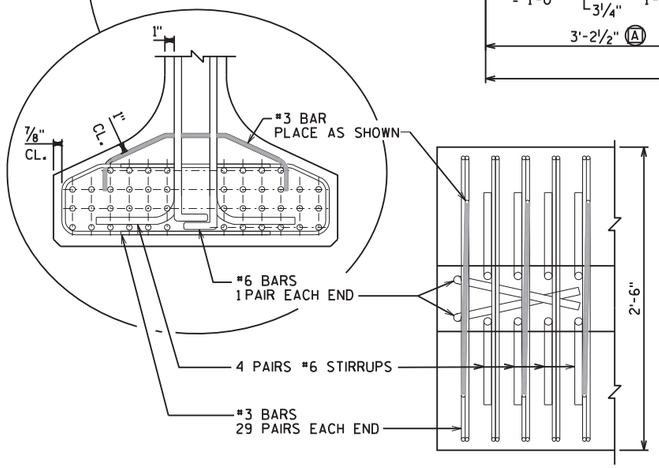


SECTION A-A

SIDE VIEW & TYP. SECTION IN SPAN

(A) DETAIL TYP. AT EACH END

(B) 6 " BARS, FULL LENGTH, MIN. LAP =



BOTTOM FLANGE

GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF THE 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, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

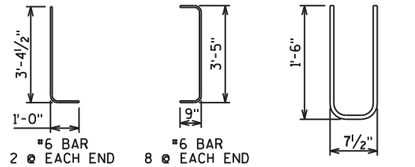
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, ONE OPTION IS AVAILABLE:

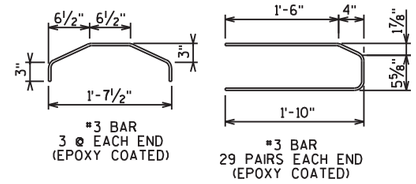
USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE 0.6" DIA.-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.





* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	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 TOTAL NO. OF STRANDS	f'ci (P.S.I.) *	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) *
1	1 - 7	101'-0"	0.6	1.2	1.6	1.9	2.0	1.9	1.6	1.2	0.6	8000	7"	7"	7"	0.60	34	6800	40.0	13.75	16.75	5.0		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM PLANS CK'D. AY

45W" PRESTRESSED GIRDER DETAILS

SHEET 17 OF 32
742

8

8

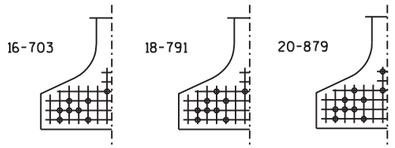
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080200_gr317.dgn PLOT DATE : 9/18/2013 2:27:30 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

FILE= SCALE =

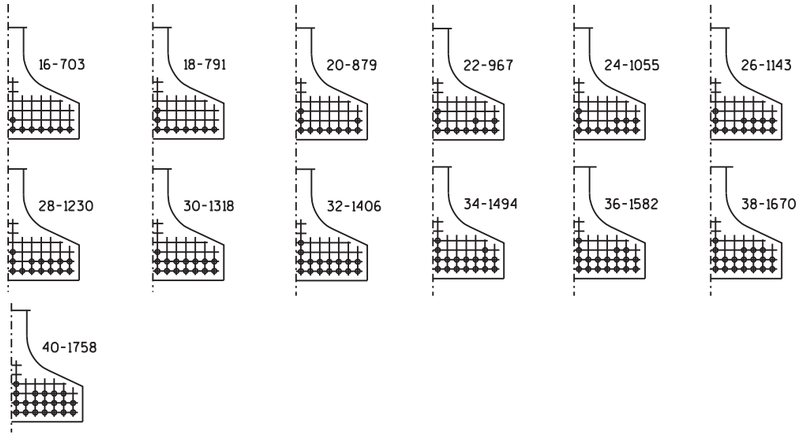
STATE PROJECT NUMBER

1330-18-70



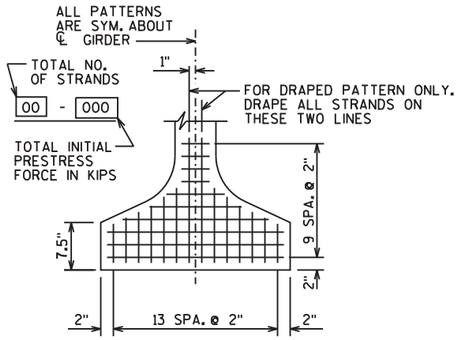
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS

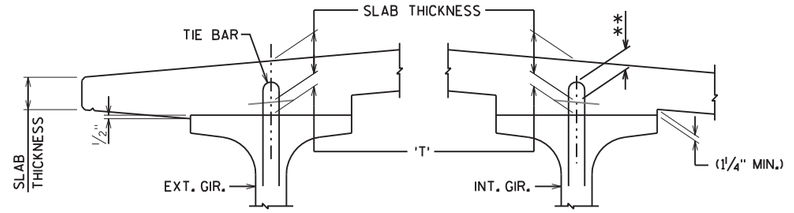


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



TYP. STRAND PATTERN



SLAB HAUNCH DETAIL

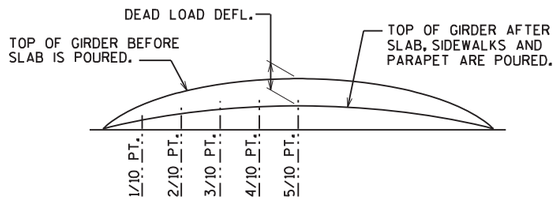
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

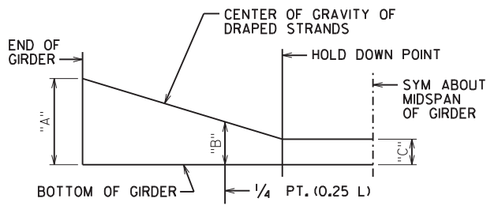
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 2½" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	3.6

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T'. USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. AY

45W" PRESTRESSED GIRDER DETAILS

SHEET 18 OF 32
743

8

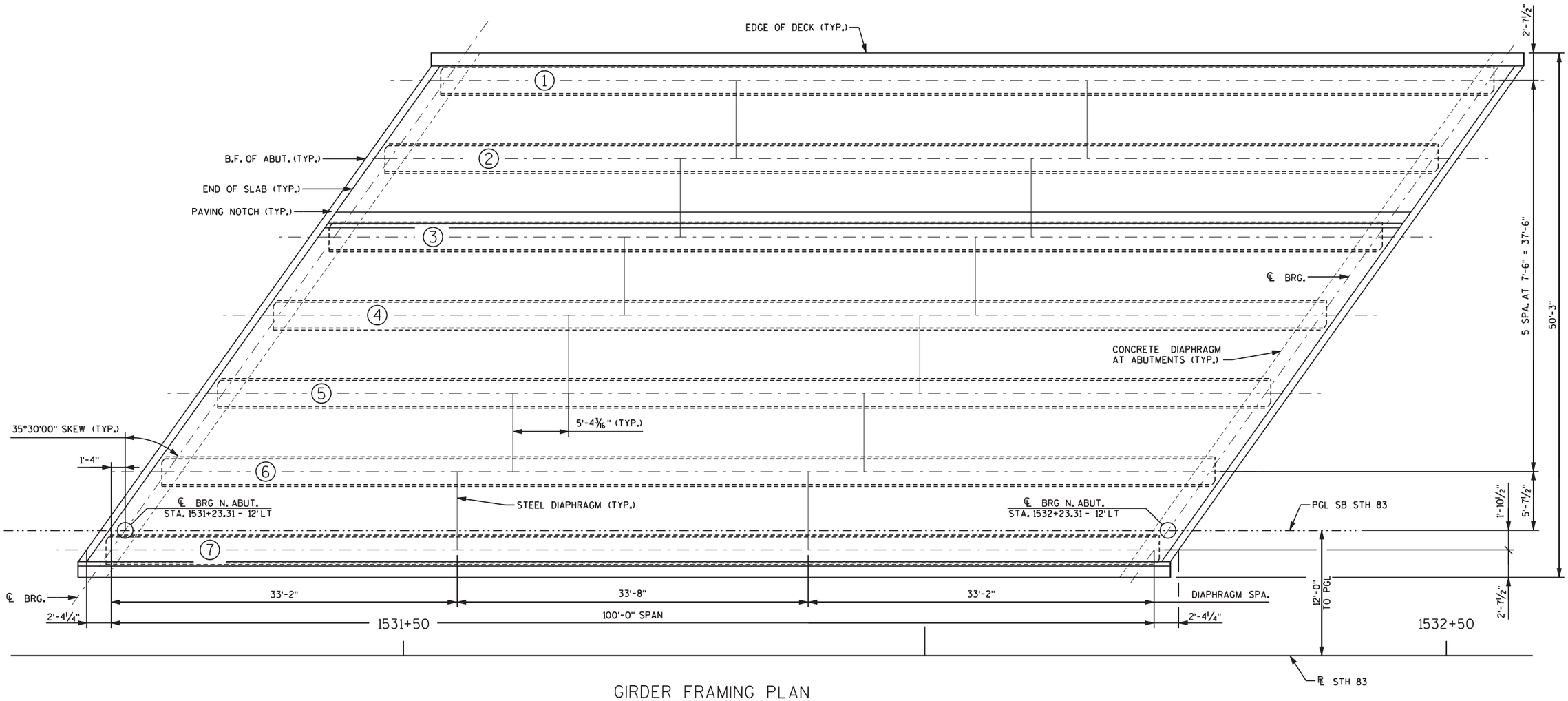
8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080201_gr317.dgn PLOT DATE : 9/18/2013 2:27:33 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

FILE=
SCALE =

STATE PROJECT NUMBER
1330-18-70



GIRDER FRAMING PLAN

TOP OF DECK ELEVATIONS

	CL BRG. S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	CL BRG. N. ABUT.
LT. E.O.D. *	1010.04	1009.93	1009.81	1009.68	1009.54	1009.39	1009.22	1009.05	1008.86	1008.67	1008.46
GIRDER 1	1010.12	1010.01	1009.89	1009.76	1009.62	1009.47	1009.31	1009.13	1008.95	1008.76	1008.56
GIRDER 2	1010.32	1010.22	1010.10	1009.98	1009.84	1009.70	1009.54	1009.38	1009.20	1009.01	1008.82
GIRDER 3	1010.52	1010.42	1010.32	1010.20	1010.07	1009.93	1009.78	1009.62	1009.45	1009.27	1009.07
GIRDER 4	1010.72	1010.63	1010.52	1010.41	1010.29	1010.15	1010.01	1009.86	1009.69	1009.51	1009.33
GIRDER 5	1010.91	1010.83	1010.73	1010.62	1010.51	1010.38	1010.24	1010.09	1009.93	1009.76	1009.58
CONST. JT.	1010.97	1010.88	1010.79	1010.68	1010.57	1010.44	1010.30	1010.16	1010.00	1009.83	1009.65
GIRDER 6	1010.89	1010.81	1010.72	1010.62	1010.50	1010.38	1010.25	1010.11	1009.95	1009.79	1009.61
GIRDER 7	1010.78	1010.70	1010.62	1010.52	1010.42	1010.30	1010.17	1010.03	1009.89	1009.73	1009.56
RT. E.O.D. *	1010.74	1010.67	1010.58	1010.49	1010.38	1010.27	1010.14	1010.01	1009.86	1009.70	1009.54

* LEFT EDGE OF DECK, RIGHT EDGE OF DECK

EDGE OF DECK (EOD) ELEVATIONS ARE CALCULATED ASSUMING THE CROSS SLOPE CONTINUES TO EDGE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. AY

FRAMING PLAN

SHEET 19 OF 32
744

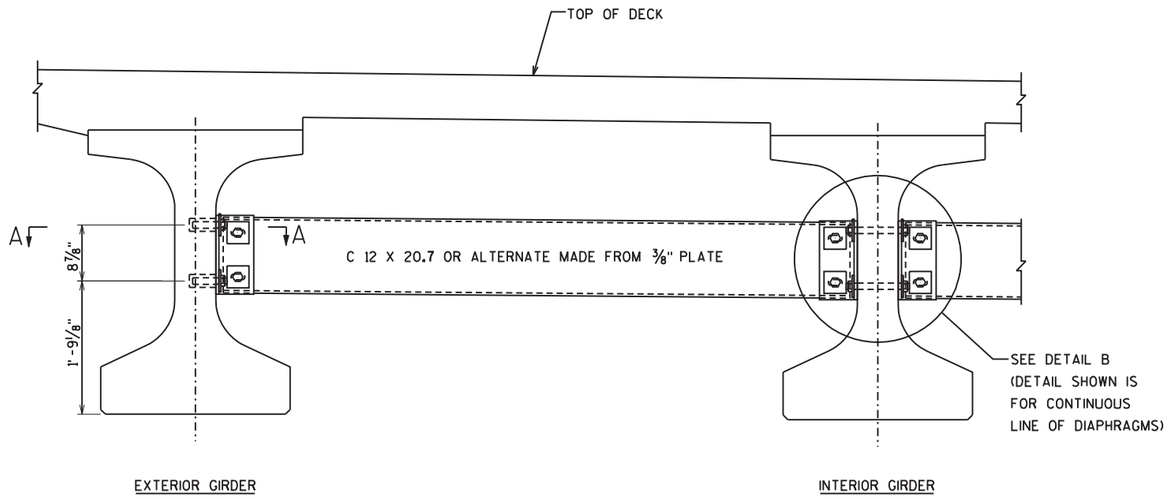
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080230_fp317.dgn PLOT DATE : 9/18/2013 2:27:35 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0001 sf / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



PART TRANSVERSE SECTION AT DIAPHRAGM

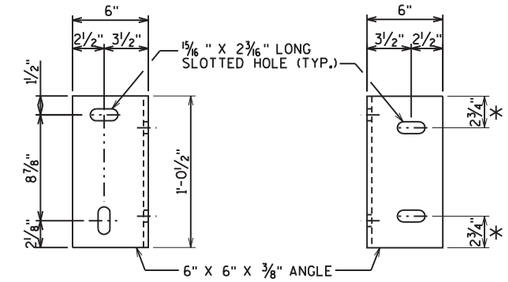
NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-67-317", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

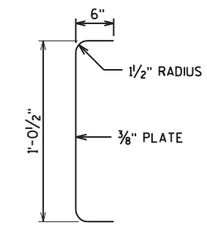
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

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 OVERSIZED 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.

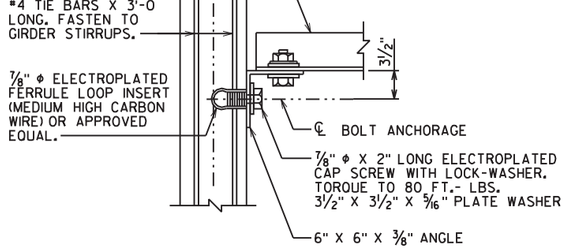


DIAPHRAGM SUPPORT

* 2 1/2" FOR ALTERNATE PLATE DIAPHRAGM

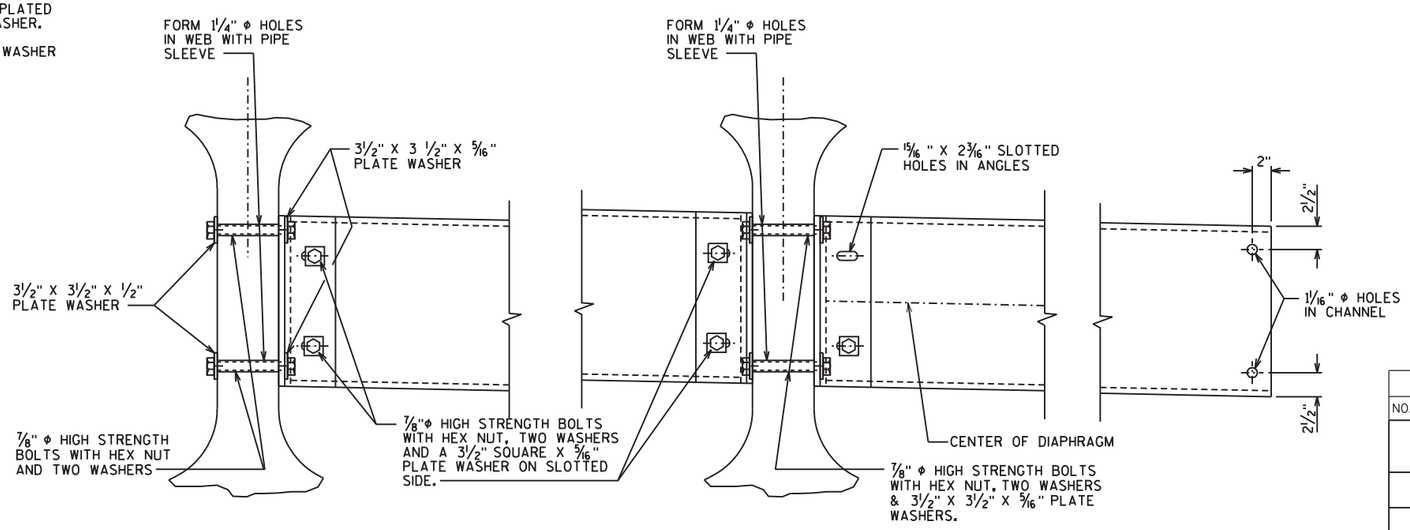


SECTION THRU ALTERNATE DIAPHRAGM



SECTION A-A

(FOR EXTERIOR ATTACHMENT)



(FOR STAGGERED DIAPHRAGM)

(FOR CONTINUOUS LINE OF DIAPHRAGMS)

DETAIL B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. AY

STEEL DIAPHRAGM

SHEET 20 OF 32
745

8

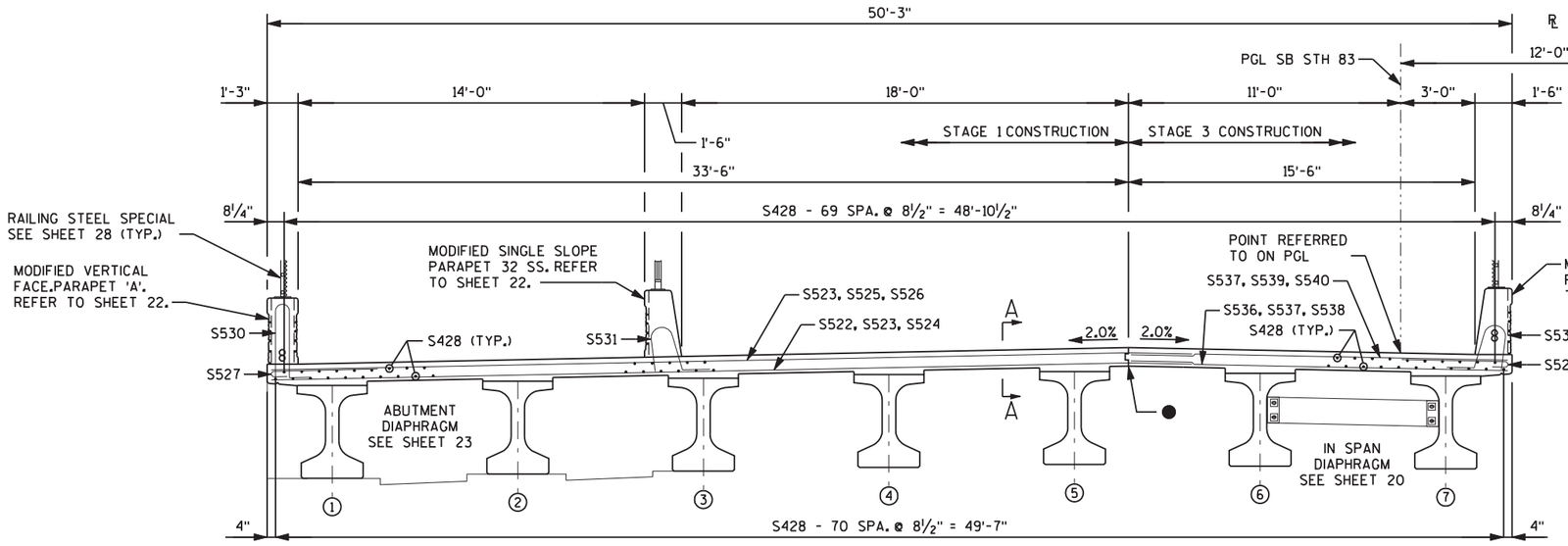
8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080250_dp317.dgn PLOT DATE : 9/18/2013 2:27:35 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2:0 ' :" / IN.

FILE=
SCALE =

STATE PROJECT NUMBER
1330-18-70

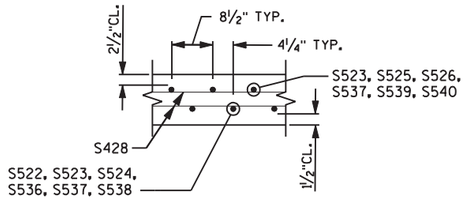


TYPICAL SECTION

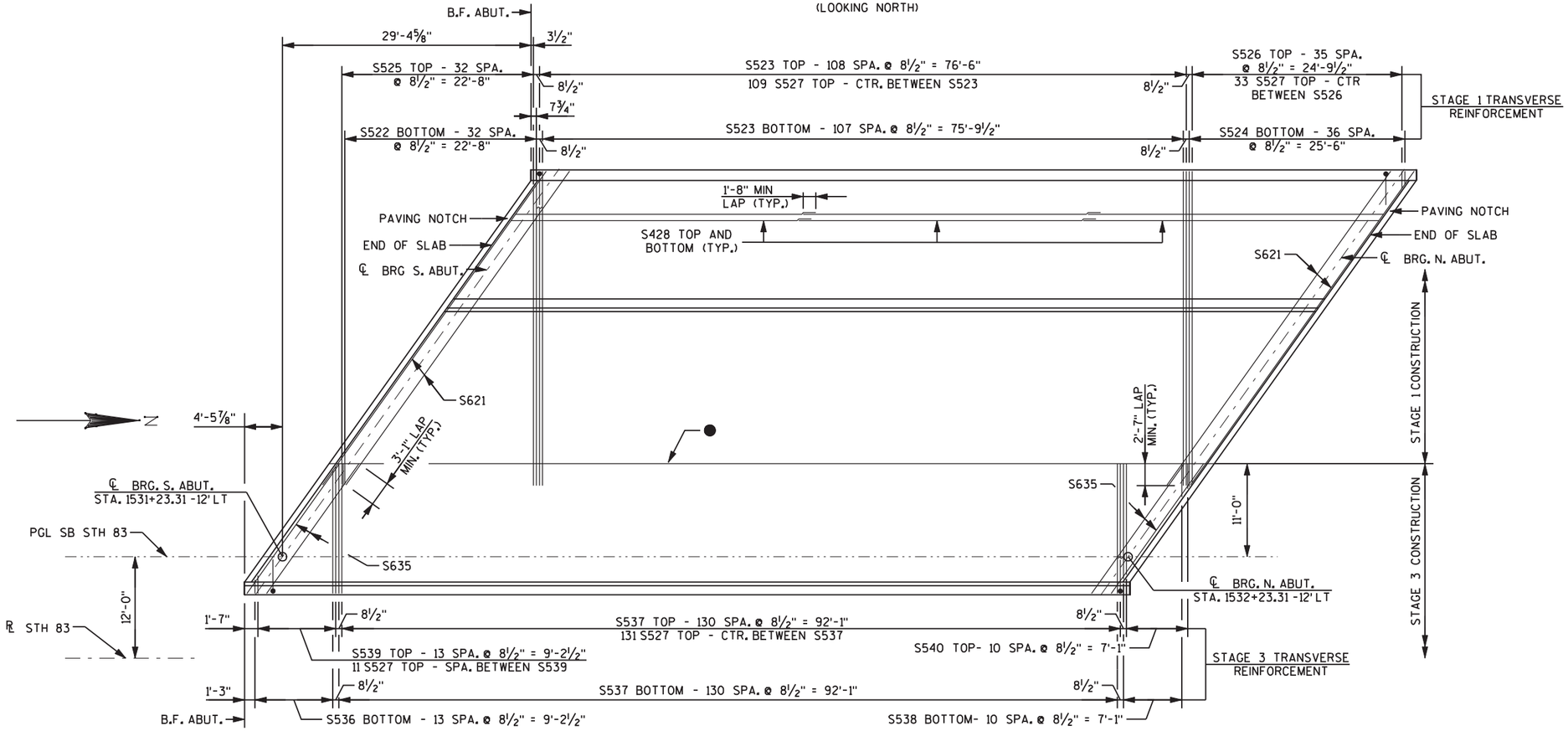
(LOOKING NORTH)

LEGEND

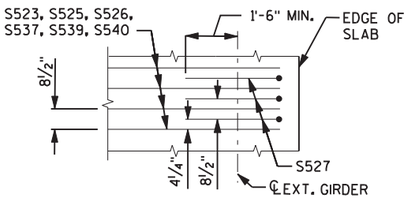
● LONGITUDINAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 2". THE TOP OF JOINT SHALL BE SEALED WITH A POURABLE CRACK SEALER IN ACCORDANCE WITH THE PERTINENT REQUIREMENTS OF SECTION 502 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".



SECTION A-A



SLAB PLAN



PLAN - DECK OVERHANG
REINFORCEMENT DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. AY

SUPERSTRUCTURE

SHEET 21 OF 32
746

8

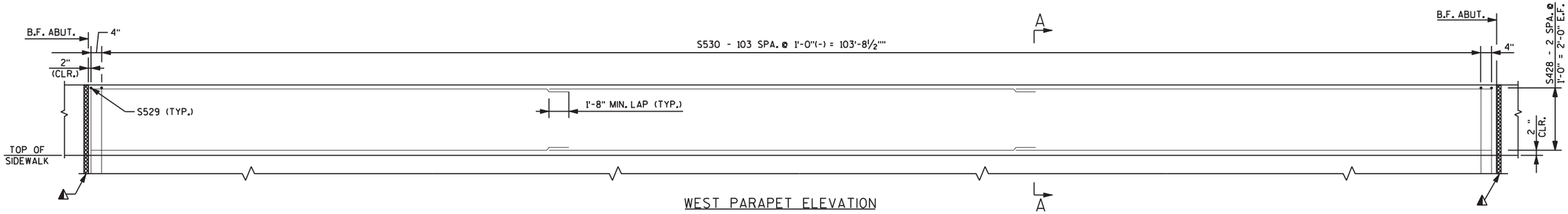
8

Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080300_ss317.dgn PLOT DATE : 9/18/2013 2:27:37 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 15.0003 sf / IN.

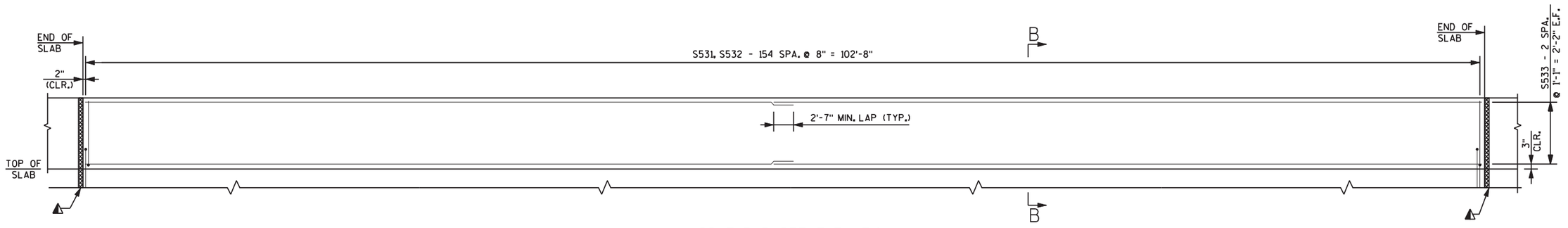
FILE=
SCALE =

STATE PROJECT NUMBER
1330-18-70



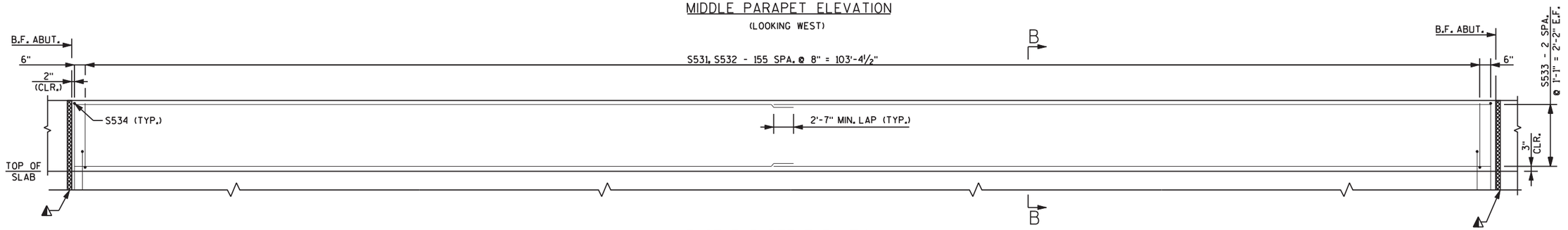
WEST PARAPET ELEVATION

(LOOKING WEST)



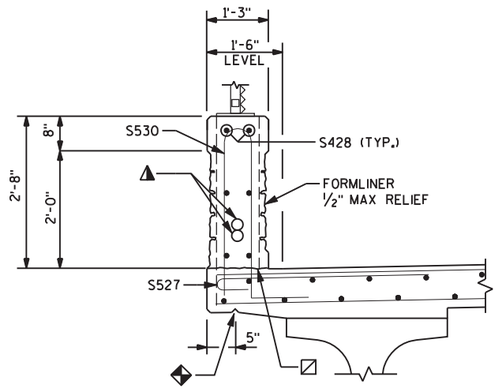
MIDDLE PARAPET ELEVATION

(LOOKING WEST)

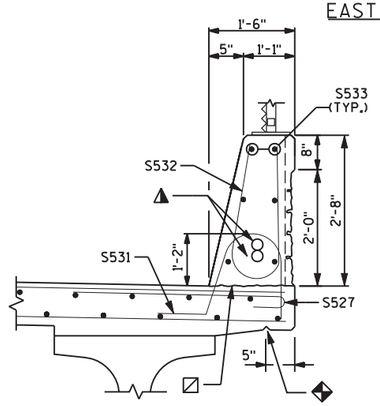


EAST PARAPET ELEVATION

(LOOKING WEST)



SECTION A-A - WEST PARAPET



SECTION B-B - EAST PARAPET

MIDDLE PARAPET SIMILAR

NOTES

1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN SET IS PLACED AT THE DISTANCE SHOWN FROM THE NEXT REINFORCEMENT BAR.
2. OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINFORCING THRU THE JOINT. MIN. JOINT SPACING OF 80'-0". DEFINE CONSTRUCTION JOINT WITH A ¾" 'V' GROOVE.

LEGEND

- ▲ ½" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF CONCRETE PARAPET.
- ▨ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH. FOR DECK POUR, MATCH BRIDGE X-SLOPE.
- ◆ ¾" V-GROOVE. EXTEND V-GROOVE TO 3" FROM FRONT FACE OF ABUTMENT DIAPHRAGM.
- ▲ CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. AY

SUPERSTRUCTURE DETAILS 1

SHEET 22 OF 32
747

8

8

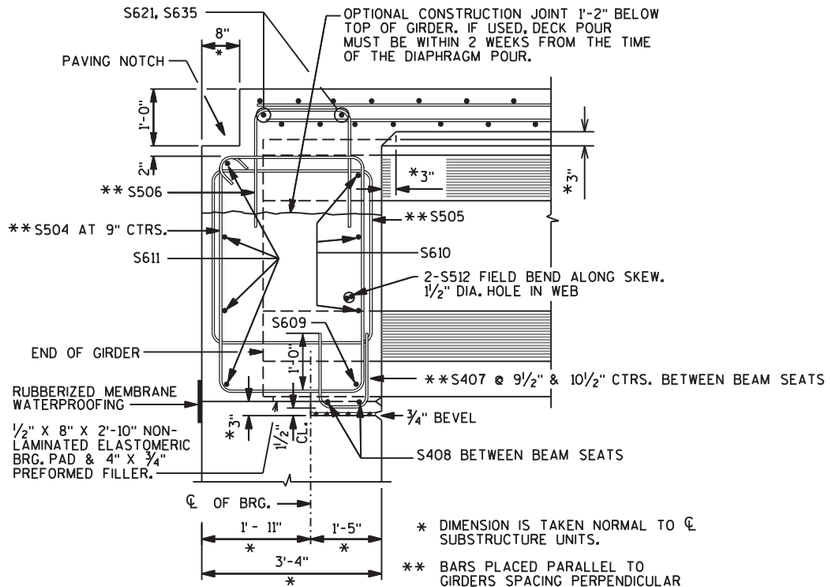
Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080301 _ss317.dgn PLOT DATE : 9/18/2013 2:27:39 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 sf / IN.

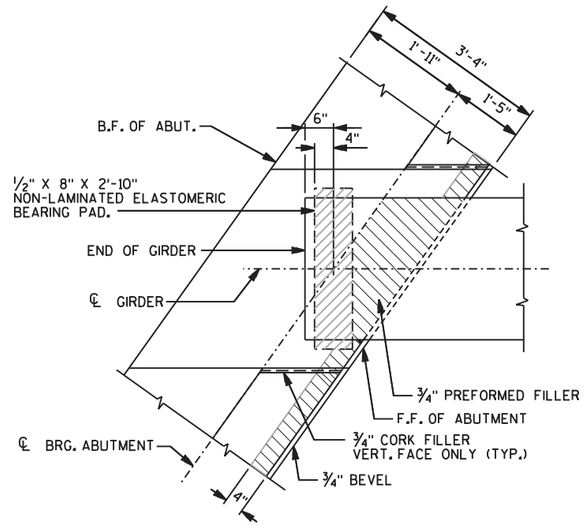
FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



AT ABUTMENTS
PART LONGIT. SECTION

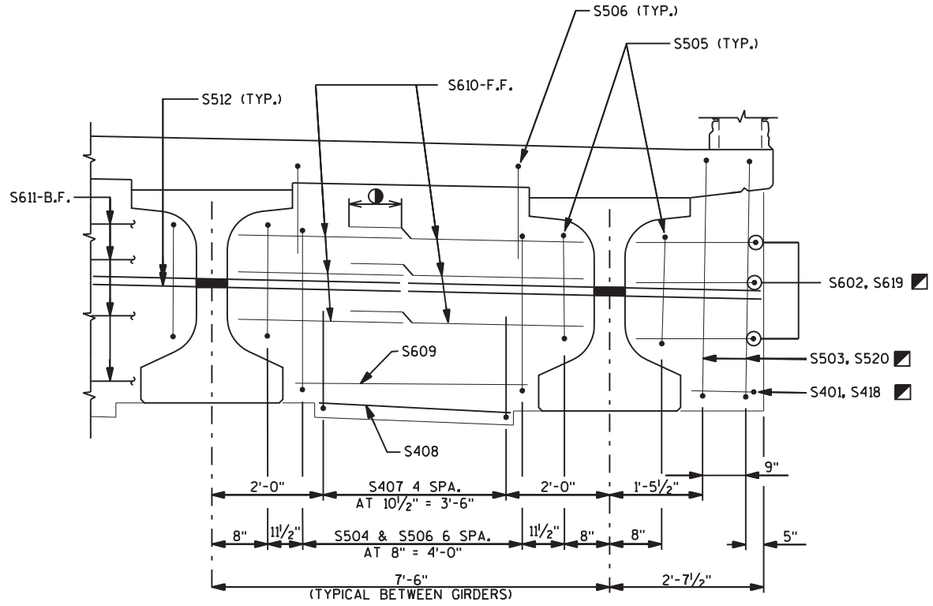


AT ABUTMENTS
BEARING PAD LAYOUT

◑ 1'-10" MIN. LAP

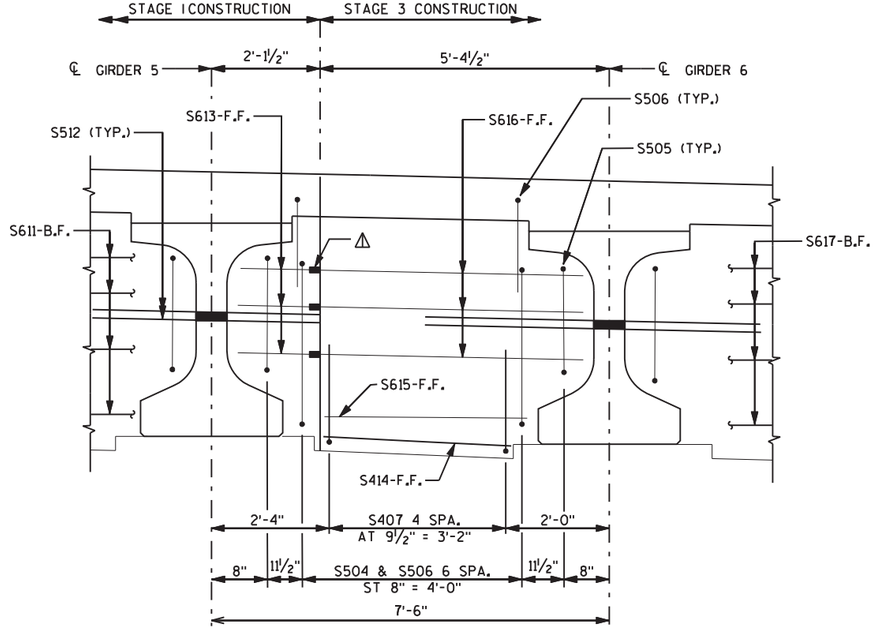
◩ S401, S602, S503 SOUTHWEST & NORTHEAST ABUTMENT ENDS.
S418, S619, S520 SOUTHEAST & NORTHWEST ABUTMENT ENDS.

◭ BAR COUPLER. BAR LENGTHS HAVE BEEN COMPUTED TO THE ℄ OF THE VERTICAL CONSTRUCTION JOINT AND SHALL BE MODIFIED TO THE BAR COUPLER MANUFACTURER'S RECOMMENDATIONS.



ABUTMENT DIAPHRAGM PARTIAL TRANSVERSE SECTION

(BETWEEN GIRDERS 1 THRU 5, 6 TO 7)



ABUTMENT DIAPHRAGM PARTIAL TRANSVERSE SECTION
BETWEEN GIRDERS 5 AND 6

(NORTH ABUTMENT SHOWN - LOOKING NORTH
SOUTH ABUTMENT OPPOSITE HAND)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. AY

SUPERSTRUCTURE DETAILS 2

SHEET 23 OF 32
748

8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080302 _ss317.dgn PLOT DATE : 9/18/2013 2:27:41 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

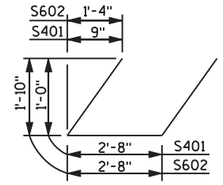
1330-18-70

BILL OF BARS

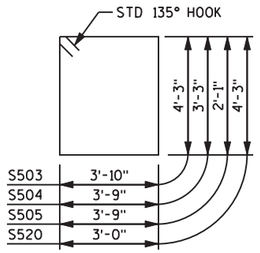
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	2	5'-0"	▲		EXTERIOR ABUT. DIA. HORIZ. SW STAGE 1 & NE STAGE 3 CORNERS
S602	X	6	7'-0"	▲		EXTERIOR ABUT. DIA. HORIZ. SW STAGE 1 & NE STAGE 3 CORNERS
S503	X	4	16'-9"	▲		EXTERIOR ABUT. DIA. STIRRUP. SW STAGE 1 & NE STAGE 3 CORNERS
S504	X	84	14'-7"	▲		INT. ABUT. DIA. STIRRUP STAGE 1 & 3
S505	X	28	12'-3"	▲		ABUT. DIA. STIRRUP AT WEB STAGE 1 & 3
S506	X	84	7'-2"	▲		INT. ABUT. DIA. TOP U BAR STAGE 1 & 3
S407	X	60	3'-11"	▲		INT. ABUT. DIA. BOTTOM U BAR STAGE 1 & 3
S408	X	20	4'-6"			INT. ABUT. DIA. F.F. HORIZ. STAGE 1 & 3
S609	X	10	5'-9"			INT. ABUT. DIA. F.F. HORIZ. STAGE 1 & 3
S610	X	60	5'-0"			INT. ABUT. DIA. F.F. HORIZ. STAGE 1 & 3
S611	X	8	42'-2"			S. ABUT. DIA. HORIZ. B.F. STAGE 1
S512	X	28	6'-0"			ABUT. DIA. HORIZ. THROUGH WEB STAGE 1 & 3
S613	X	6	1'-11"			S. ABUT. DIA. HORIZ. F.F. STAGE 1
S414	X	4	4'-3"			S. ABUT. DIA. HORIZ. F.F. STAGE 3
S615	X	2	4'-10"			S. ABUT. DIA. HORIZ. F.F. STAGE 3
S616	X	6	5'-11"			S. ABUT. DIA. HORIZ. F.F. STAGE 3
S617	X	8	17'-6"			S. ABUT. DIA. HORIZ. B.F. STAGE 3
S418	X	2	7'-5"	▲		EXTERIOR ABUT. DIA. HORIZ. NW STAGE 1 & SE STAGE 3 CORNERS
S619	X	6	9'-0"	▲		EXTERIOR ABUT. DIA. HORIZ. NW STAGE 1 & SE STAGE 3 CORNERS
S520	X	4	15'-1"	▲		EXTERIOR ABUT. DIA. STIRRUP NW STAGE 1 & SE STAGE 3 CORNERS
S621	X	4	45'-3"			SLAB ENDS STAGE 1
S522	X	33	19'-9"		Δ	SLAB TRANSVERSE BOTTOM STAGE 1
S523	X	217	37'-4"			SLAB TRANSVERSE TOP & BOTTOM STAGE 1
S524	X	37	19'-5"		Δ	SLAB TRANSVERSE BOTTOM STAGE 1
S525	X	33	19'-1"		Δ	SLAB TRANSVERSE TOP STAGE 1
S526	X	36	19'-5"		Δ	SLAB TRANSVERSE TOP STAGE 1
S527	X	284	4'-7"	▲		SLAB EDGE TRANSVERSE TOP STAGE 1 & 3
S428	X	441	35'-11"			SLAB LONGIT. TOP & BOTTOM STAGE 1 & 3, EAST PARAPET STAGE 1
S529	X	2	9'-5"	▲		WEST PARAPET / SLAB TRANSVERSE AT PAVING NOTCH STAGE 1
S530	X	104	6'-10"	▲		WEST PARAPET / SLAB TRANSVERSE STAGE 1
S531	X	311	4'-5"	▲		MIDDLE PARAPET STAGE 1, EAST PARAPET STAGE 3 / SLAB TRANSVERSE
S532	X	311	5'-0"	▲		MIDDLE PARAPET STAGE 1, EAST PARAPET STAGE 3 VERTICAL
S533	X	24	53'-6"			MIDDLE PARAPET STAGE 1, EAST PARAPET STAGE 3 HORIZONTAL
S534	X	2	5'-10"	▲		EAST PARAPET / SLAB TRANSVERSE AT PAVING NOTCH STAGE 3
S635	X	4	18'-10"			SLAB ENDS STAGE 3
S536	X	14	8'-3"		Δ	SLAB TRANSVERSE BOTTOM STAGE 3
S537	X	262	15'-4"			SLAB TRANSVERSE TOP & BOTTOM STAGE 3
S538	X	11	8'-5"		Δ	SLAB TRANSVERSE BOTTOM STAGE 3
S539	X	14	8'-6"		Δ	SLAB TRANSVERSE TOP STAGE 3
S540	X	11	8'-2"		Δ	SLAB TRANSVERSE TOP STAGE 3

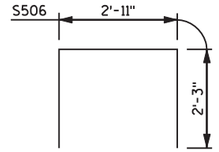
Δ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.



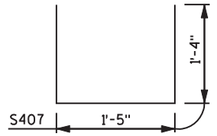
S401, S602



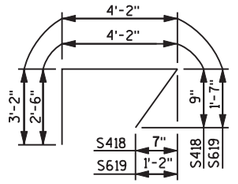
S503, S504, S505, S520



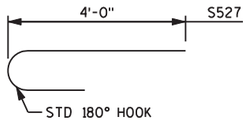
S506



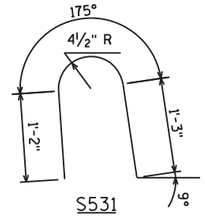
S407



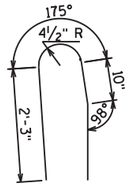
S418, S619



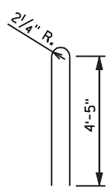
S527



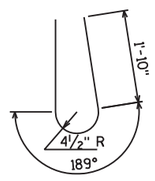
S531



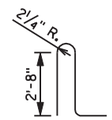
S534



S529



S532



S530

BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
S522	1 SERIES OF 33	3'-9" TO 35'-9"
S524	1 SERIES OF 37	1'-6" TO 37'-3"
S525	1 SERIES OF 33	3'-3" TO 34'-11"
S526	1 SERIES OF 36	2'-0" TO 36'-9"
S536	1 SERIES OF 14	1'-7" TO 15'-0"
S538	1 SERIES OF 11	3'-2" TO 13'-7"
S539	1 SERIES OF 14	2'-0" TO 15'-0"
S540	1 SERIES OF 11	3'-2" TO 13'-2"

BUNDLE AND TAG EACH SERIES SEPARATELY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. AY

SUPERSTRUCTURE DETAILS 3

SHEET 24 OF 32
749

8

8

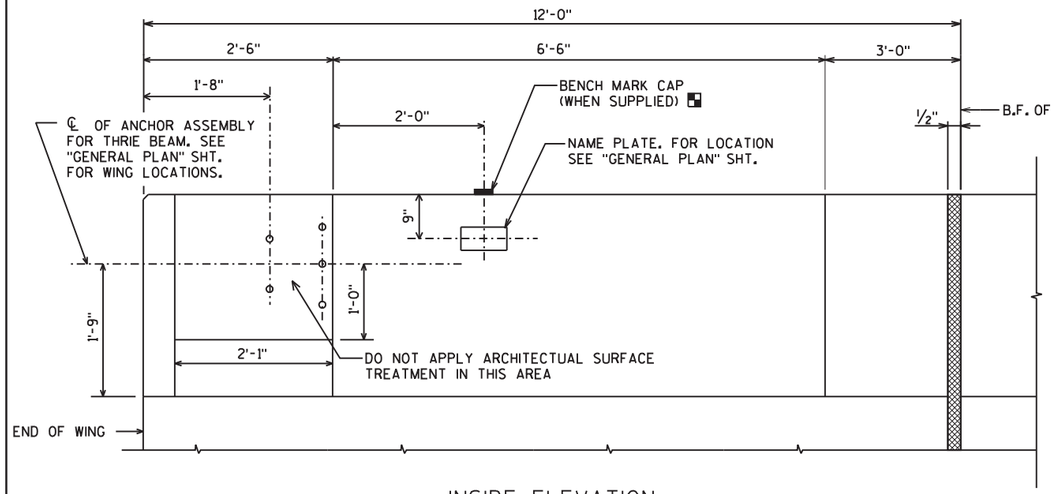
Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080303 _ss317.dgn PLOT DATE : 9/18/2013 2:27:44 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

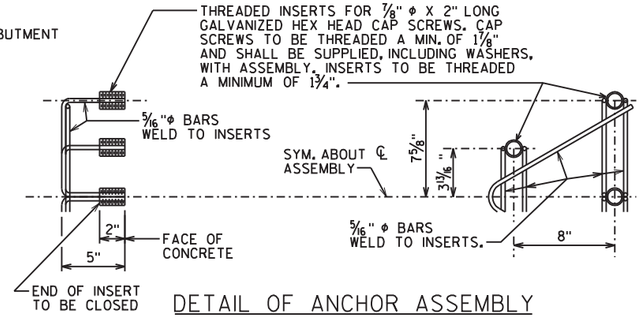
FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



INSIDE ELEVATION



DETAIL OF ANCHOR ASSEMBLY

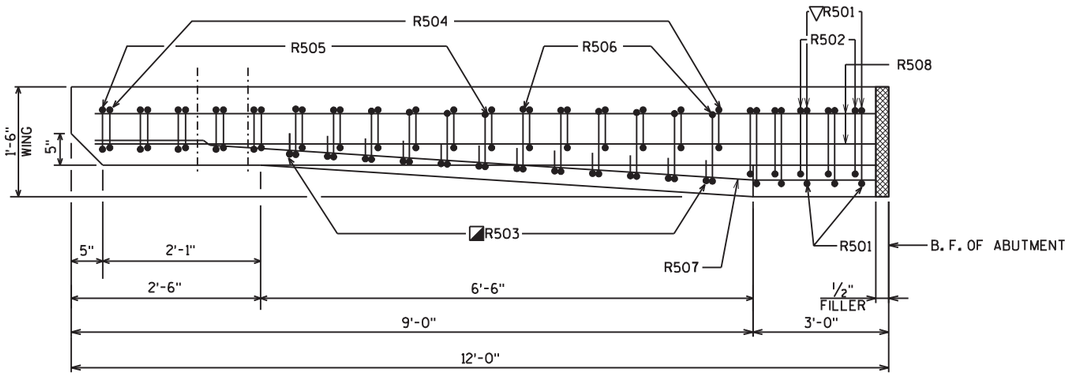
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

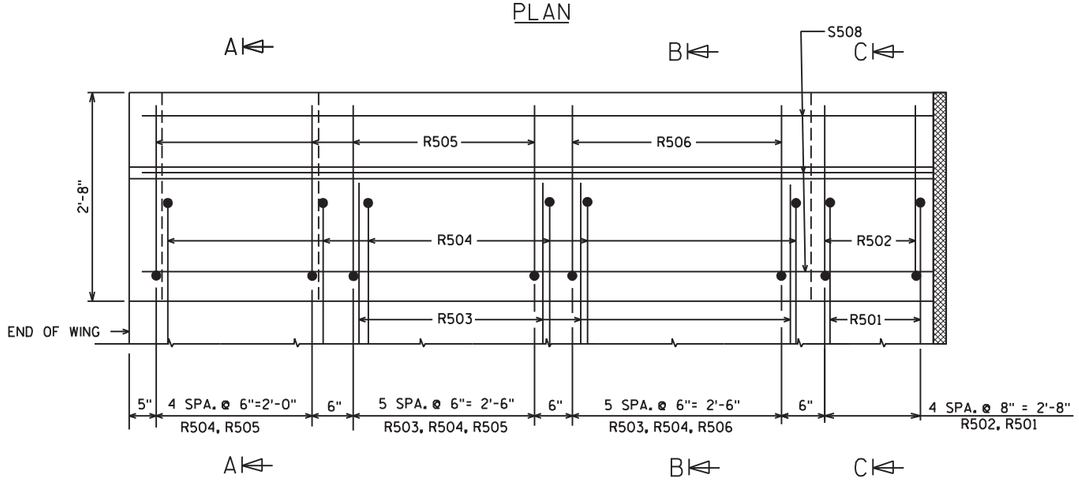
BILL OF BARS - WINGWALLS 2 & 4

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

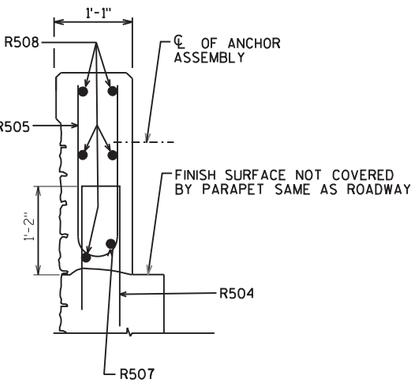
BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	LOCATION
R501	X	10	5'-10"	▲	PARAPET VERTICAL
R502	X	10	5'-0"	▲	PARAPET VERTICAL
R503	X	24	3'-0"	▲	PARAPET VERTICAL
R504	X	34	5'-7"	▲	PARAPET VERTICAL
R505	X	22	4'-9"	▲	PARAPET VERTICAL
R506	X	12	4'-10"	▲	PARAPET VERTICAL
R507	X	2	11'-5"	▲	PARAPET HORIZONTAL
R508	X	10	11'-7"		PARAPET HORIZONTAL



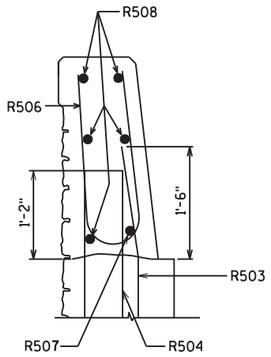
PLAN



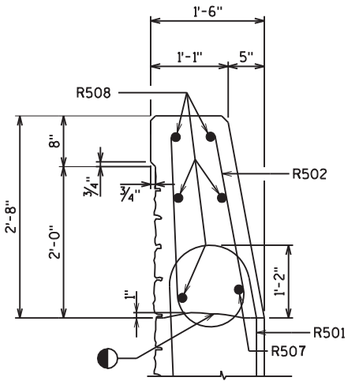
OUTSIDE ELEVATION



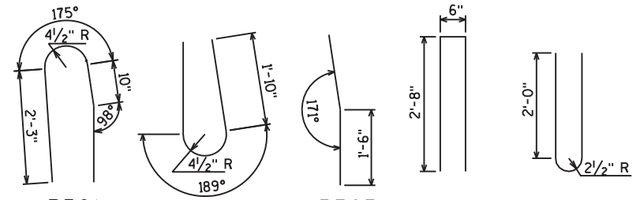
SECTION A



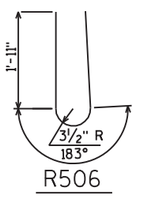
SECTION B



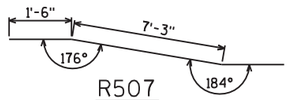
SECTION C



R501 R502 R503 R504 R505



R506



R507

NOTES

1. SEE SHEET 28 FOR POST ANCHORAGE SPACING.

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◪ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 OR S503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. AY

MODIFIED SINGLE SLOPE PARAPET 32SS

SHEET 25 OF 32

750

8

8

Pdf_bw_HS.plt
Pdf_TextSub.tbl

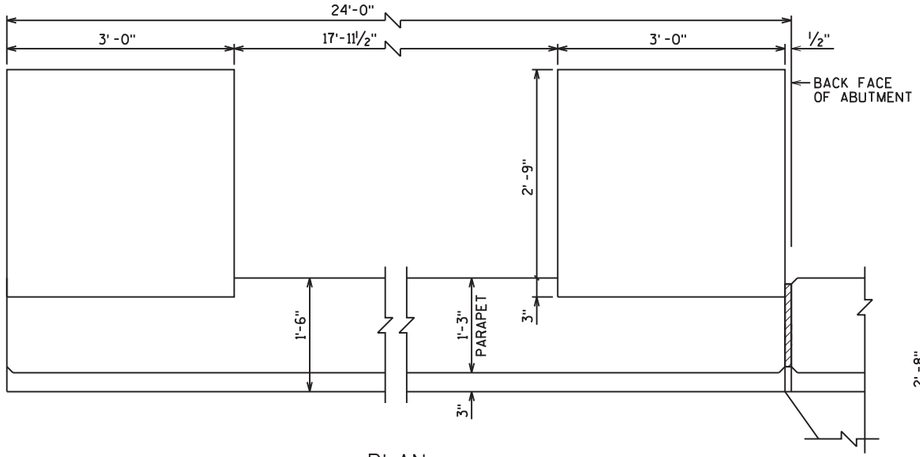
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080320_pt317.dgn PLOT DATE : 9/18/2013 2:27:45 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 sf / IN.

32SSDEC

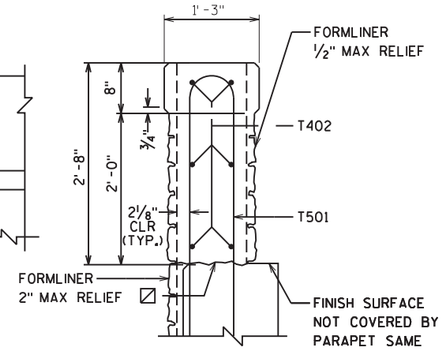
FILE=
SCALE =

STATE PROJECT NUMBER

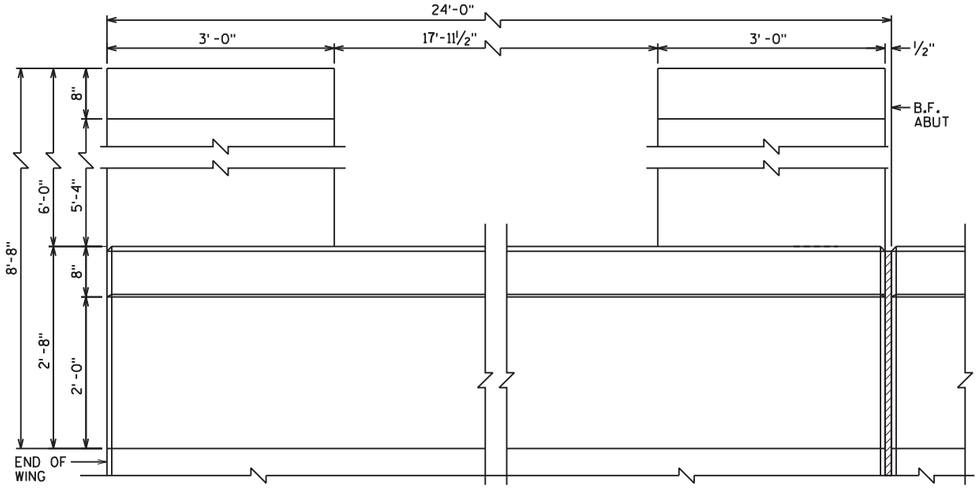
1330-18-70



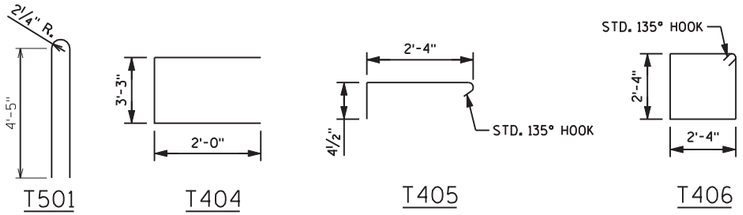
PLAN

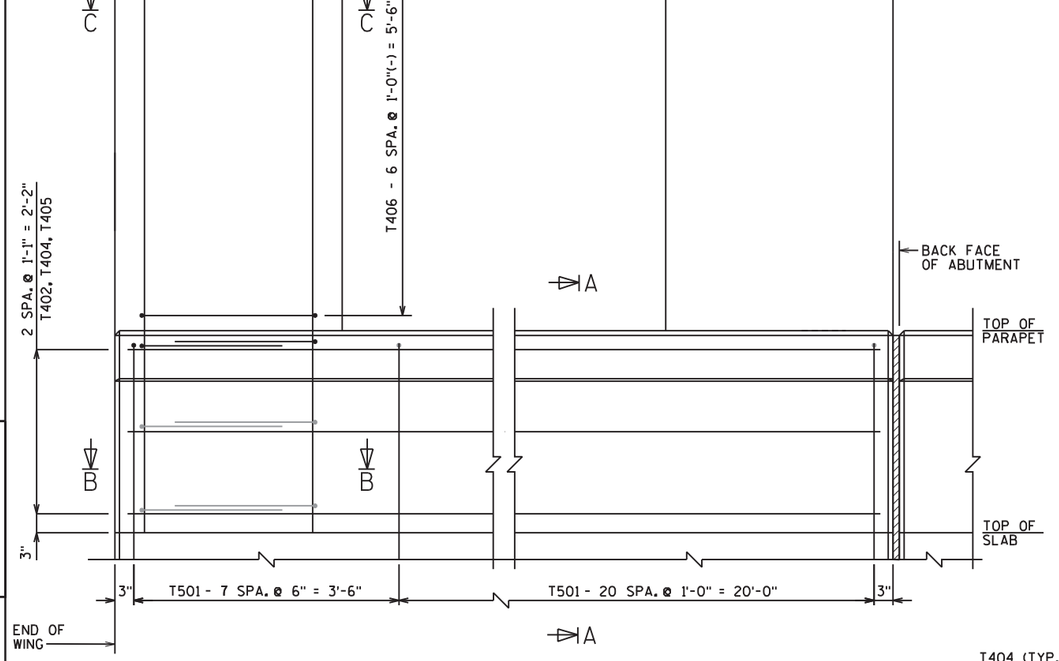


SECTION A-A



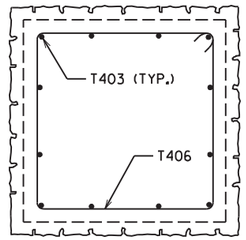
INSIDE ELEVATION



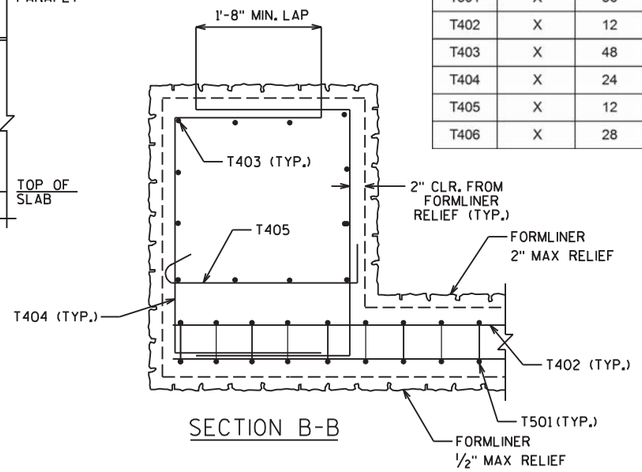


INSIDE ELEVATION

RIGHT PILASTER REINFORCEMENT SHOWN, LEFT PILASTER SIMILAR



SECTION C-C



SECTION B-B

BILL OF BARS - WINGWALLS 1 & 3

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	LOCATION
T501	X	56	9'-5"	▲	PARAPET VERTICAL
T402	X	12	23'-5"		PARAPET HORIZONTAL
T403	X	48	8'-6"		PILASTER VERTICAL
T404	X	24	7'-1"	▲	PILASTER TIES
T405	X	12	3'-0"	▲	PILASTER TIE
T406	X	28	9'-10"	▲	PILASTER STIRRUP

☑ CONST. JOINT - STRIKE OFF AS SHOWN.

NOTES

1. SEE SHEET 28 FOR POST ANCHORAGE SPACING

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JIJ | PLANS CK'D. AY

MODIFIED VERTICAL FACE PARAPET TYPE 'A'

SHEET 26 OF 32
751

8

8

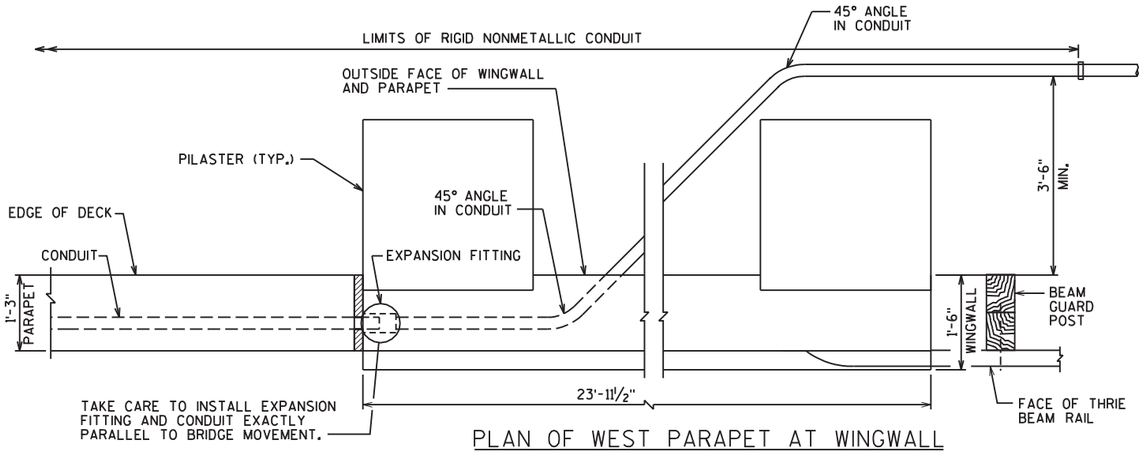
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080321_pt317.dgn PLOT DATE : 9/18/2013 2:27:47 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

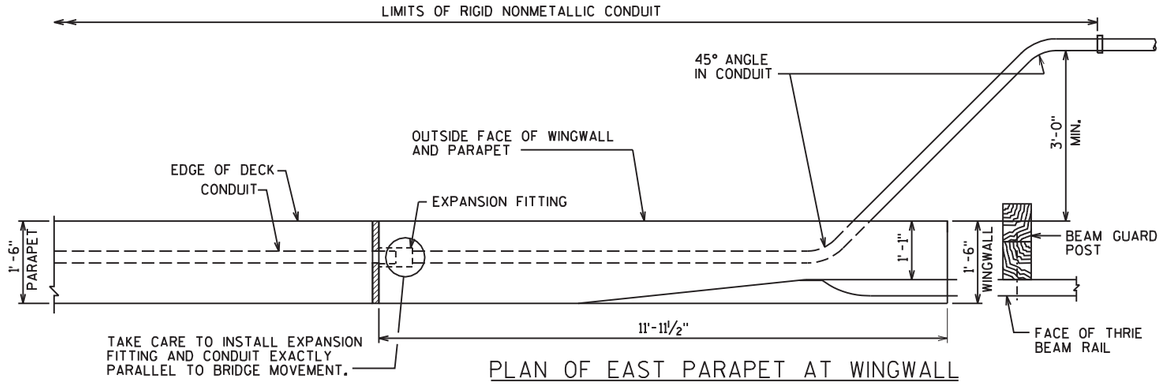
FILE= SCALE =

STATE PROJECT NUMBER

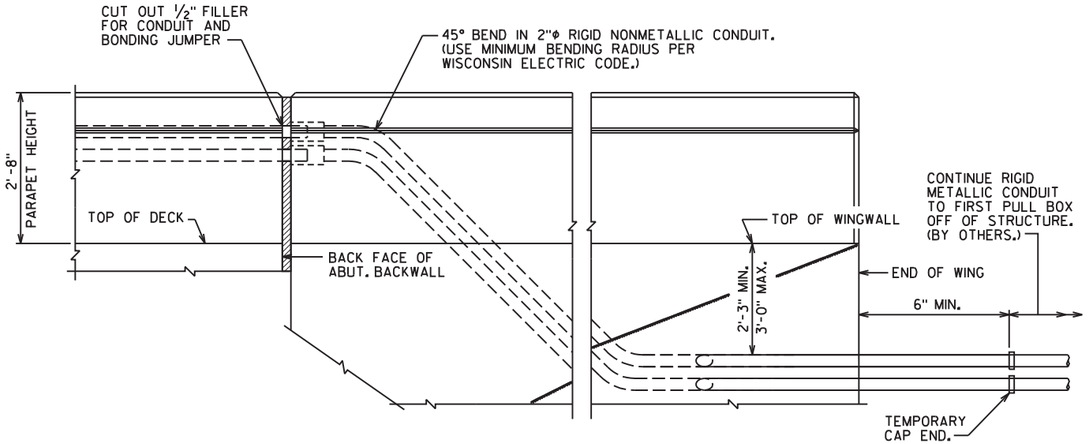
1330-18-70



PLAN OF WEST PARAPET AT WINGWALL

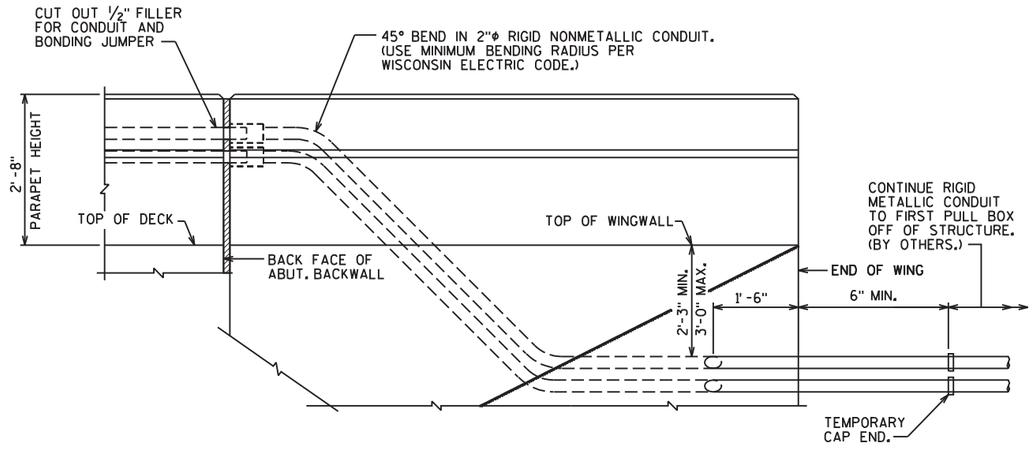


PLAN OF EAST PARAPET AT WINGWALL



OUTSIDE ELEVATION OF WEST PARAPET AT WINGWALL

(PILASTERS OMITTED FOR CLARITY)



OUTSIDE ELEVATION OF EAST PARAPET AT WINGWALL

NOTES

1. EXPANSION FITTING SHALL BE KRALOY TYPE OPEJ20 OR EQUIVALENT. COST SHALL BE INCIDENTAL TO THE BID ITEM "CONDUIT RIGID NONMETALLIC SCHEDULE 40 - 2-INCH.
2. EXPANSION FITTINGS, ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH".
3. WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY PEW | PLANS CK'D. AY

ELECTRICAL DETAILS

SHEET 27 OF 32
752

8

8

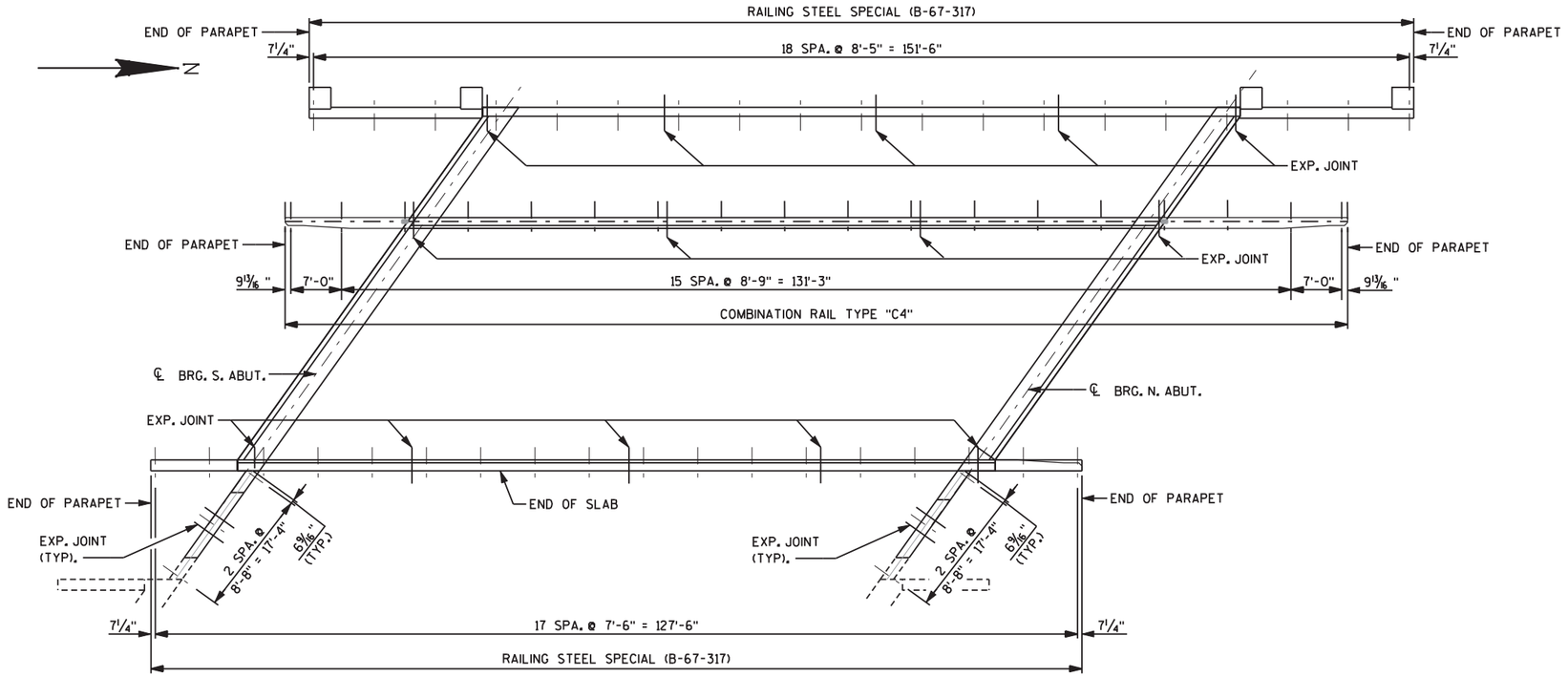
Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_080340_el317.dgn PLOT DATE : 9/18/2013 2:27:48 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



NOTES

BID ITEM SHALL BE "STEEL RAILING DECORATIVE BRIDGE B-67-317" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILS AND POSTS TO BE ASTM A500, GRADE B. BASE PLATES AND SHIMS TO BE ASTM A709, GRADE 36.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.

ALL POST SPA. ARE TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.

SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN TRANSVERSE DIRECTION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING ALL STEEL RAILING POSTS AND STEEL TUBING SHALL BE GIVEN A #6 BLAST CLEANING BY SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

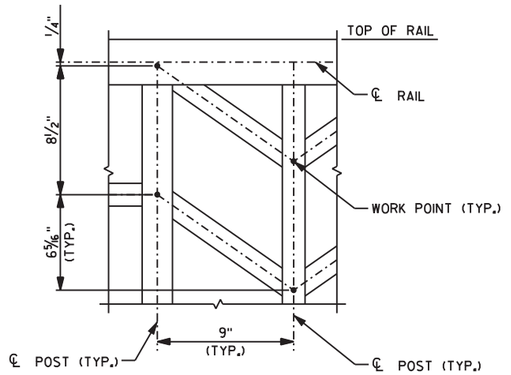
THE COLOR OF THE COATING FOR THE RAILING SHALL BE FEDERAL COLOR FS34066, COST INCLUDED UNDER "STEEL RAILING DECORATIVE BRIDGE B-67-317".

THE COLOR OF THE POLYMER-COATING FOR THE WELDED WIRE MESH SHALL BE FEDERAL COLOR FS 34066. COST INCLUDED UNDER "STEEL RAILNG DECORATIVE BRIDGE B-67-317".

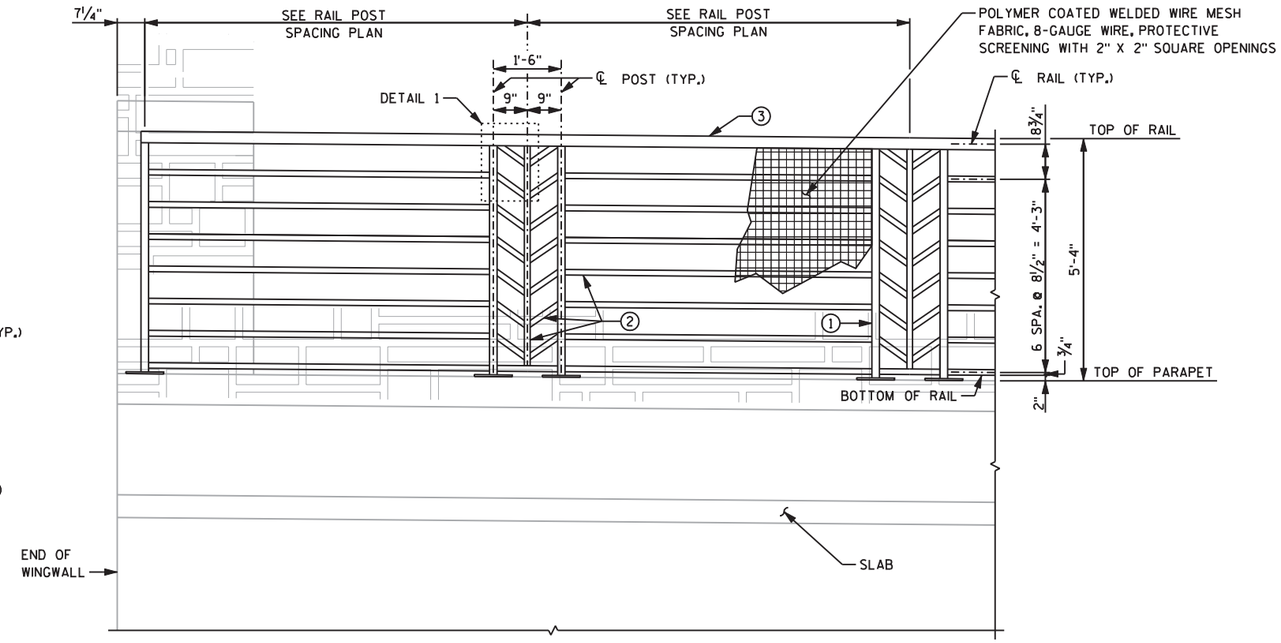
COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING.

RAIL POST SPACING PLAN



DETAIL 1



TYPICAL ELEVATION OF RAILING

LEGEND

① STRUCTURAL TUBING 2" X 2" X 3/16". PLACE VERTICAL.

② STRUCTURAL TUBING 1½" X 1½" X 3/16".

③ STRUCTURAL TUBING 3" X 3" X 3/16".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. AY

RAILINGS

SHEET 28 OF 32
753

8

8

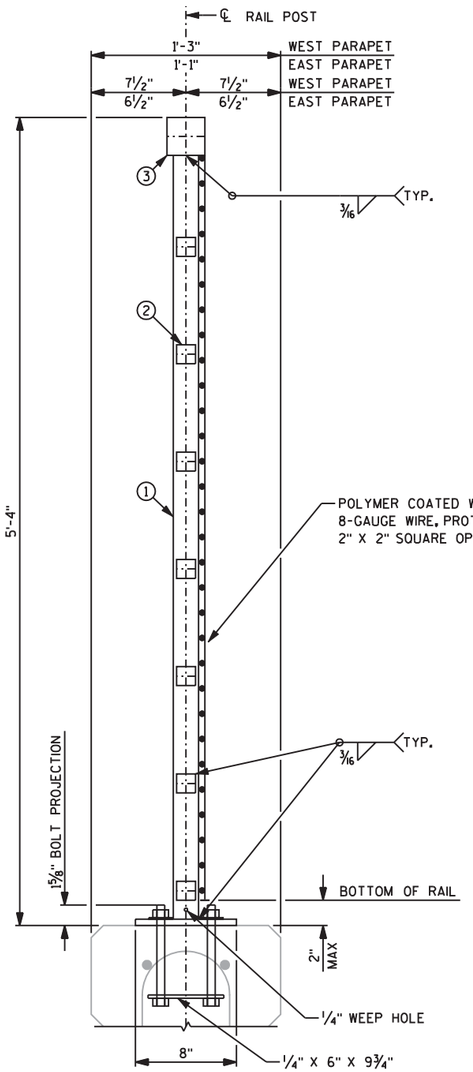
Pdf_Dw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080350_ra317.dgn PLOT DATE : 9/18/2013 2:27:50 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ' / IN.

FILE= SCALE =

STATE PROJECT NUMBER

1330-18-70



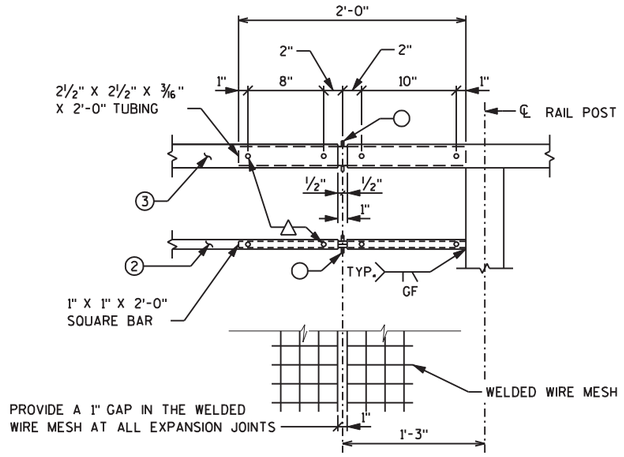
LEGEND

① STRUCTURAL TUBING 2" X 2" X 3/16". PLACE VERTICAL.

② STRUCTURAL TUBING 1½" X 1½" X 3/16".

③ STRUCTURAL TUBING 3" X 3" X 3/16".

SECTION THRU RAILING



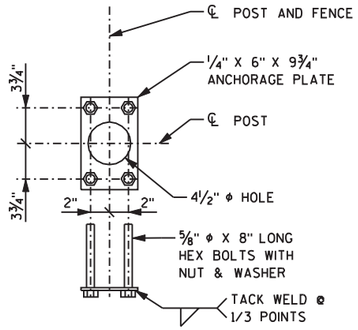
LEGEND

○ 5/16" × 3/8" WELDED STUDS

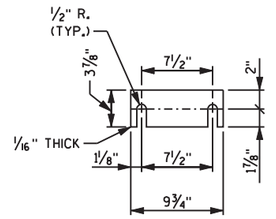
△ WELD BEAD ON EACH SIDE OF TUBE. GRIND BEADS SO THAT SLEEVE FITS FREELY INSIDE THE TUBE.

RAILING EXPANSION JOINT DETAIL

(PROTECTIVE SCREENING OMITTED FOR CLARITY)

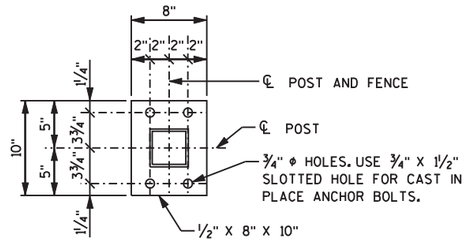


ANCHORAGE DETAIL

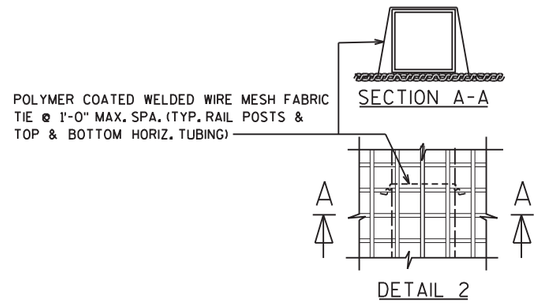


SHIM PLATE DETAILS

TWO SHIMS OF EACH SIZE REQUIRED PER POST



BASE PLATE



DETAIL 2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY JRM | PLANS CK'D. AY

RAILING STEEL SPECIAL DETAILS

SHEET 29 OF 32
754

8

8

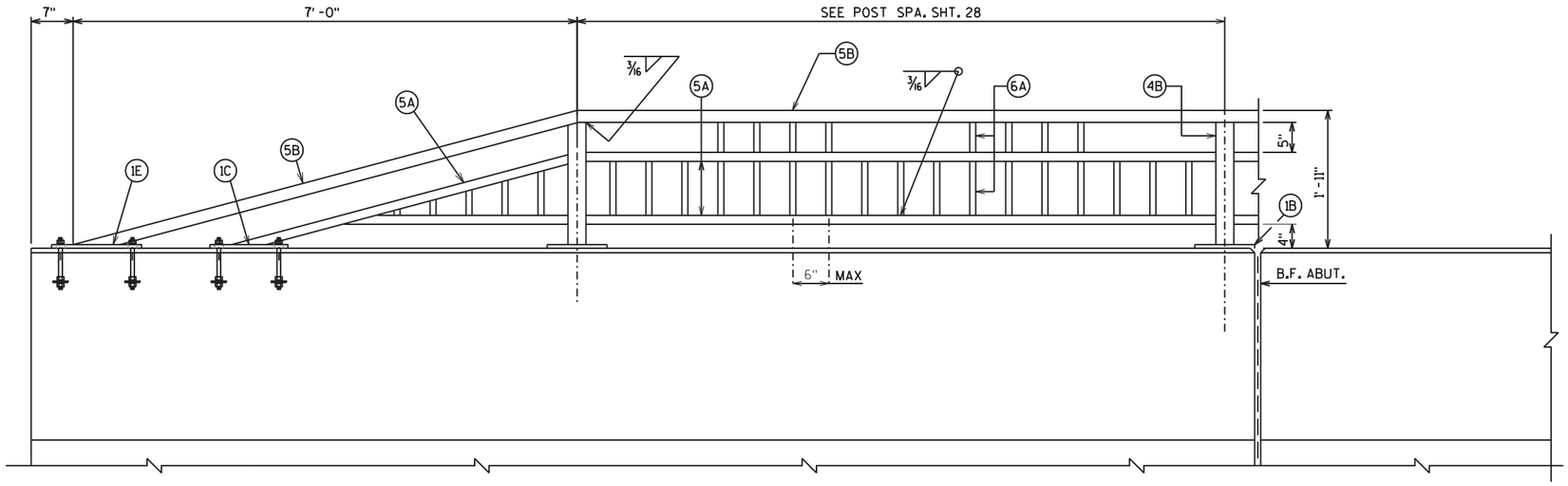
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080351_ra317.dgn PLOT DATE : 9/18/2013 2:27:52 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ' / IN.

FILE=
SCALE =

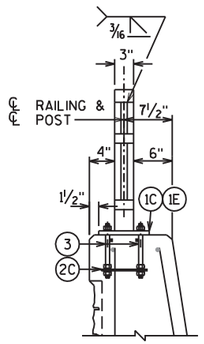
STATE PROJECT NUMBER

1330-18-70

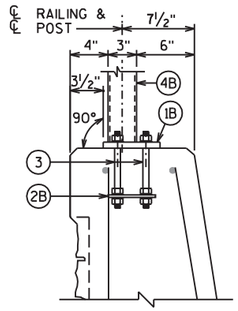


ELEVATION OF PARAPET

(LOOKING WEST)



END VIEW



SECTION THRU PARAPET ON BRIDGE

* ADJUST LOCATIONS OF BARS TO ALLOW PLACEMENT OF ANCHOR ASSEMBLY FOR RAILING AND BEAM GUARD.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY PEW | PLANS CK'D. AY

COMBINATION RAIL TYPE "C4"

SHEET 30 OF 32
755

8

8

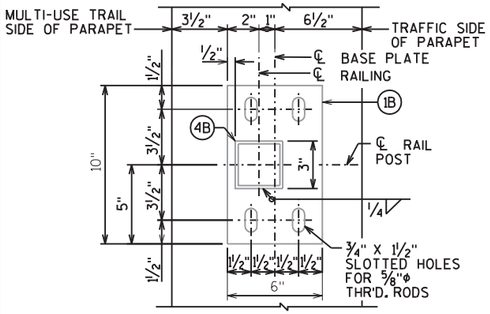
Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080352_ra317.dgn PLOT DATE : 9/18/2013 2:27:53 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 1.9992 ' / IN.

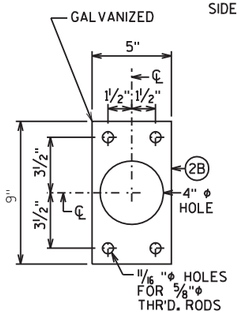
FILE=
SCALE =

STATE PROJECT NUMBER

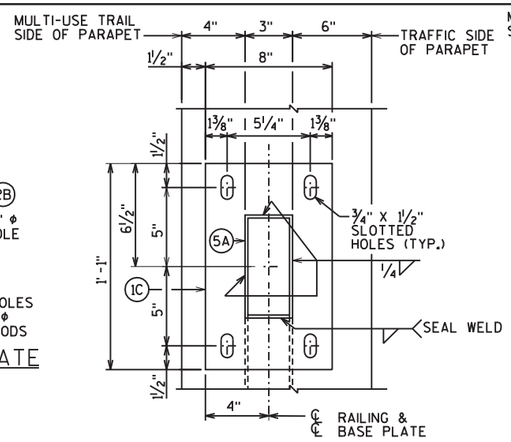
1330-18-70



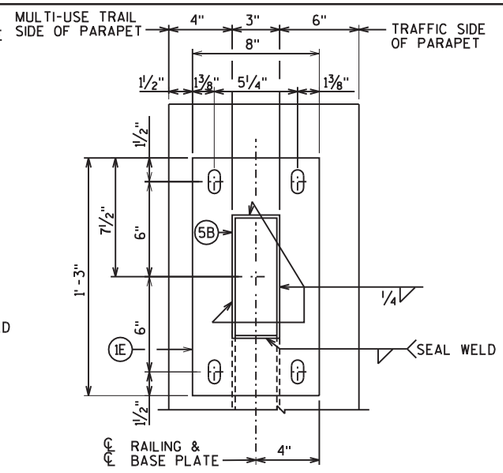
TYPICAL RAIL POST BASE PLATE



ANCHOR PLATE



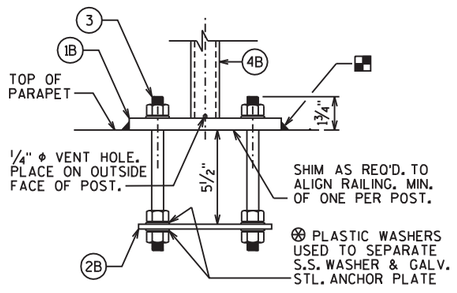
END RAIL BASE PLATE



END RAIL BASE PLATE

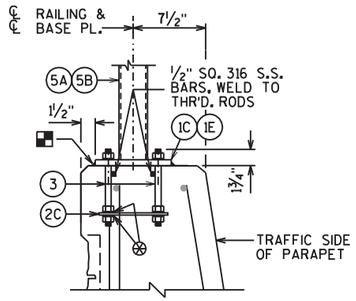
LEGEND

- (1B) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES
- (1C) PLATE ⅝" X 8" X 1'-1" WITH ¾" X 1½" SLOTTED HOLES.
- (1E) PLATE ⅝" X 8" X 1'-3" WITH ¾" X 1½" SLOTTED HOLES
- (2B) ¼" X 5" X 9" ANCHOR PLATE WITH 11/16 " ϕ HOLES FOR THR'D. RODS NO. 3.
- (2C) ¼" X 2½" X 7¼" ANCHOR PLATE WITH 11/16 " ϕ HOLES FOR THR'D. RODS NO. 3.
- (3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), ⅝" ϕ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS AND 5" FOR END RAILS.)
- (4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.
- (5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- (5B) STRUCTURAL TUBING 3" X 2" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- (6C) BAR 1" X 1½" PICKETS. WELD TO NO. 11. PLACE VERTICAL
- (9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".
- (10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4" @ FIELD ERECTION JTS.) (1'-4" @ STRIP SEAL EXP. JTS.)
- (11A) BAR 2½" X 1" X '- ".
- (11B) BAR 2½" X 1½" X '- ".
- (12) ½" DIA. STAINLESS STEEL BOLT WITH NUT AND LOCKWASHER.



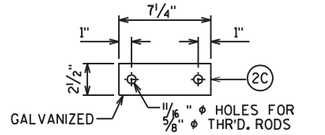
ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



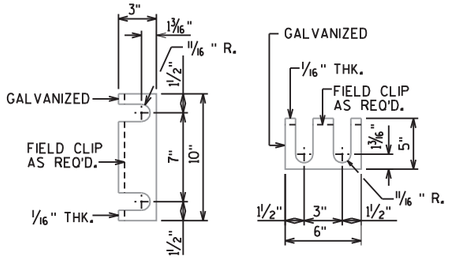
ANCHORAGE FOR END RAIL

NOTE: ANCHOR PLATES NOT REQ'D. WHEN TYPE "S" ANCHORS ARE USED.



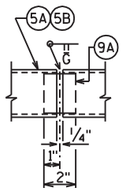
END RAIL ANCHOR PLATE

FOR END RAIL BASE PLATES
2 REQ'D. PER END RAIL BASE PLATE



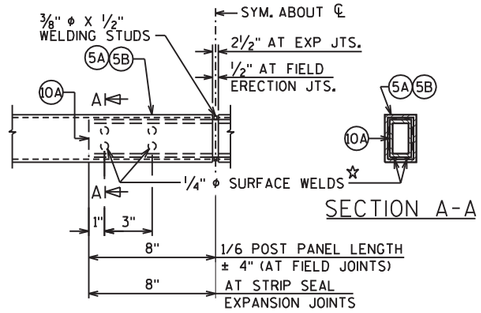
RAIL POST SHIM DETAIL

(2 SETS PER POST)



SHOP RAIL SPLICE DETAIL

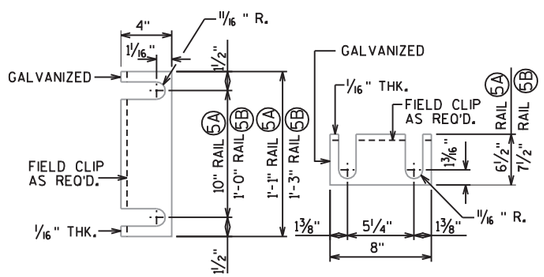
(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION A-A

FIELD ERECTION JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



END RAIL SHIM DETAIL

(2 SETS PER POST)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C4 B-67-317", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 2, 6, 9, 10 AND NO. 11 SHALL CONFORM TO ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (NO. 4 AND NO. 5).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL MATERIAL (EXCEPT NO. 3 & 12) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED UNDER "STEEL RAILING DECORATIVE BRIDGE B-67-317". THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. FS34066, ALL PAINTING COSTS INCLUDED UNDER "RAILING STEEL TYPE C4 B-67-317". VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY	PEW	PLANS CK'D.	AY

COMBINATION RAIL TYPE "C4"

SHEET 31 OF 32
756

8

8

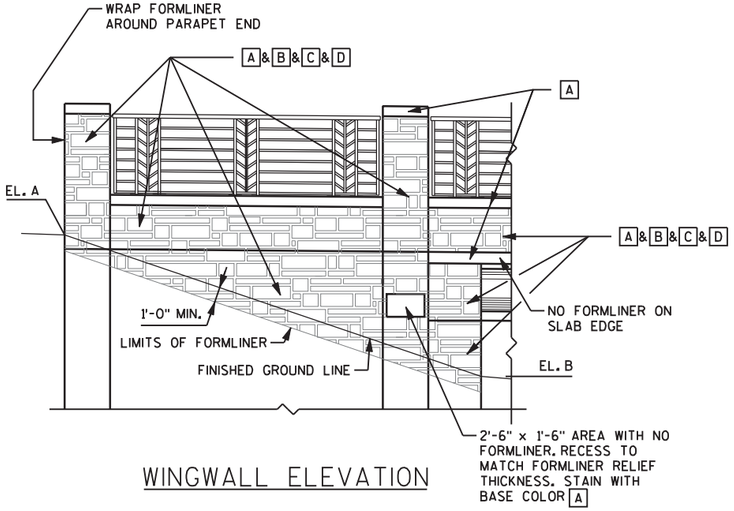
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080353_ra317.dgn PLOT DATE : 9/18/2013 2:27:54 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 1.9920 ' / IN.

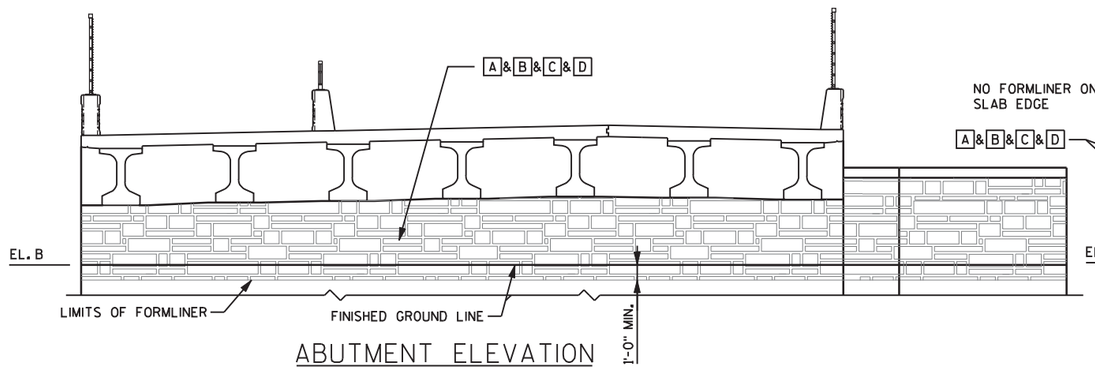
FILE= SCALE =

STATE PROJECT NUMBER

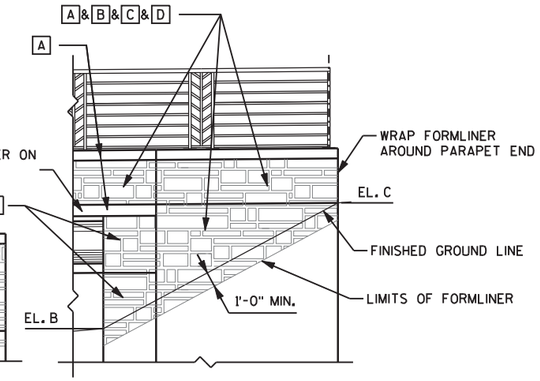
1330-18-70



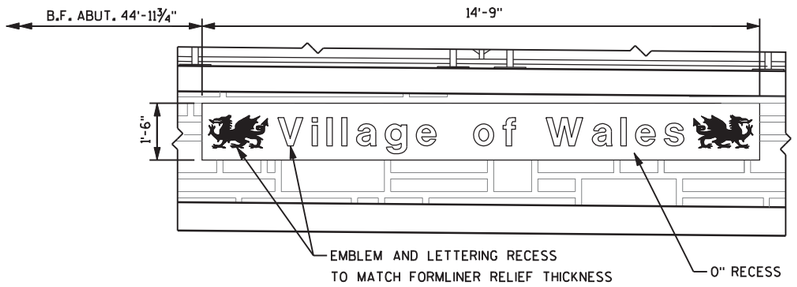
WINGWALL ELEVATION



ABUTMENT ELEVATION



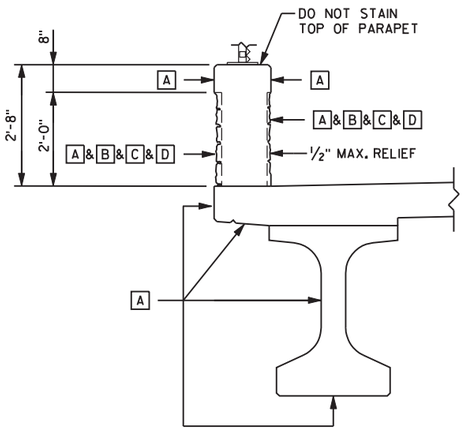
WINGWALL ELEVATION



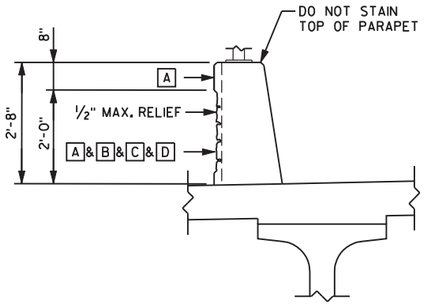
NOTES

1. LETTERING SHALL BE HELVETICA. 9" UPPER CASE AND 7" LOWER CASE
2. LETTERING AND EMBLEM ARE ONLY ON OUTSIDE FACE OF LEFT PARAPET.
3. EMBLEM MAXIMUM HEIGHT IS 11" AND MAXIMUM LENGTH IS 1'-7". CONTACT THE VILLAGE OF WALES FOR EMBLEM GEOMETRY.

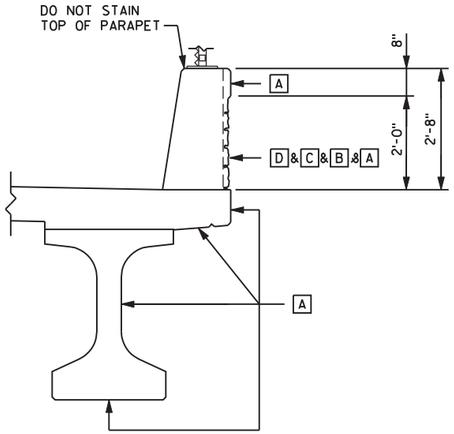
INDENTED TEXT



WEST PARAPET SECTION



MIDDLE PARAPET SECTION



EAST PARAPET SECTION

CONCRETE STAINING SCHEDULE

MARK	COLOR	NOTES
A	BASE COLOR	WHOLE WHEAT - SW 6121
B	ACCENT COLOR #1	STURDY BROWN - SW 6097 - 25% OF "ASHLAR" STONES
C	ACCENT COLOR #2	GROUNDED - SW 6089 - 60% OF "ASHLAR" STONES
D	ACCENT COLOR #3	TERRA BRUN - SW 6048 - 15% OF "ASHLAR" STONES

"AHSLAR" STONE SURFACES SHALL BE STAINED IN A RANDOMLY MIXED COLOR ARRANGEMENT ACCORDING TO THE PERCENTAGES ABOVE. LEAVE ALL PREVIOUSLY STAINED RECESSED "MORTAR" JOINTS AS THE BASE COLOR.

THE FINAL COLOR OF THE CONCRETE FOLLOWING APPLICATION OF THE STAIN SYSTEM SHALL MATCH THE SHERWIN-WILLIAMS STANDARD COLOR SYSTEM LISTED.

ABUTMENT AND WINGWALL NOTES

1. FORMLINER PATTERN SHALL BE RUSTIC ASHLAR WITH A MAXIMUM RELIEF OF 2" UNLESS NOTED OTHERWISE.
2. FORMLINER COURSING ON ABUTMENTS AND WINGWALLS SHALL BE LEVEL.
3. THE FORMLINER COURSING ON THE WINGS SHALL BE VERTICALLY ALIGNED WITH THE FORMLINER COURSING ON THE FRONT OF THE ABUTMENT.
4. THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.
5. WRAP AROUND/MATCH FORMLINER PATTERN AT CORNERS.
6. CONCRETE STAINING OF THE SURFACES THAT DO NOT RECEIVE ARCHITECTUAL SURFACE TREATMENT IS PAID FOR UNDER THE BID ITEM "CONCRETE STAINING B-67-317"

PARAPET NOTES

1. FORMLINER PATTERN SHALL BE RUSTIC ASHLAR WITH A MAXIMUM RELIEF OF 2" UNLESS NOTED OTHERWISE.
2. FORMLINER COURSING ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.
3. CONCRETE STAINING OF THE SURFACES THAT DO NOT RECEIVE ARCHITECTUAL SURFACE TREATMENT IS PAID FOR UNDER THE BID ITEM "CONCRETE STAINING B-67-317"
4. DO NOT APPLY ARCHITECTUAL SURFACE TREATMENT IN THE AREA FOR THE THRIE BEAM GUARD RAIL ATTACHMENT. REFER TO SHEET 25.

FINISHED GRADE ELEVATIONS

ELEVATION	SOUTH ABUTMENT	NORTH ABUTMENT
A	1010.25	1007.80
B	1001.50	1000.50
C	1010.82	1009.25

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-317

DRAWN BY PEW | PLANS CK'D. AY

AESTHETIC DETAILS

SHEET 32 OF 32
757

8

8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_080400_ae317.dgn PLOT DATE : 9/18/2013 2:27:57 PM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0001 ft / IN.

FILE=
SCALE =

STATE PROJECT NUMBER
1330-18-70

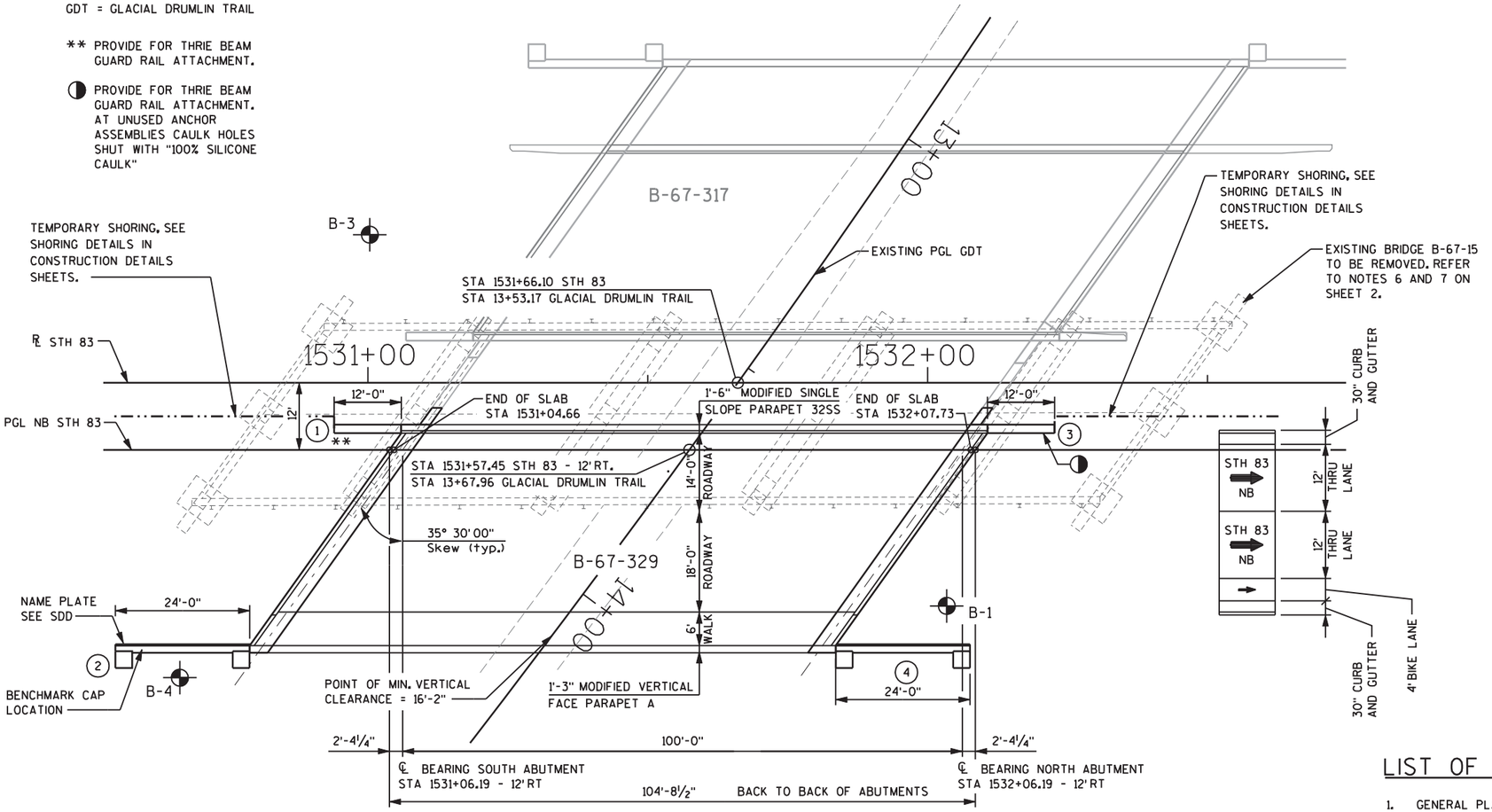
N

(*) DENOTES WINGWALL NUMBER

GDT = GLACIAL DRUMLIN TRAIL

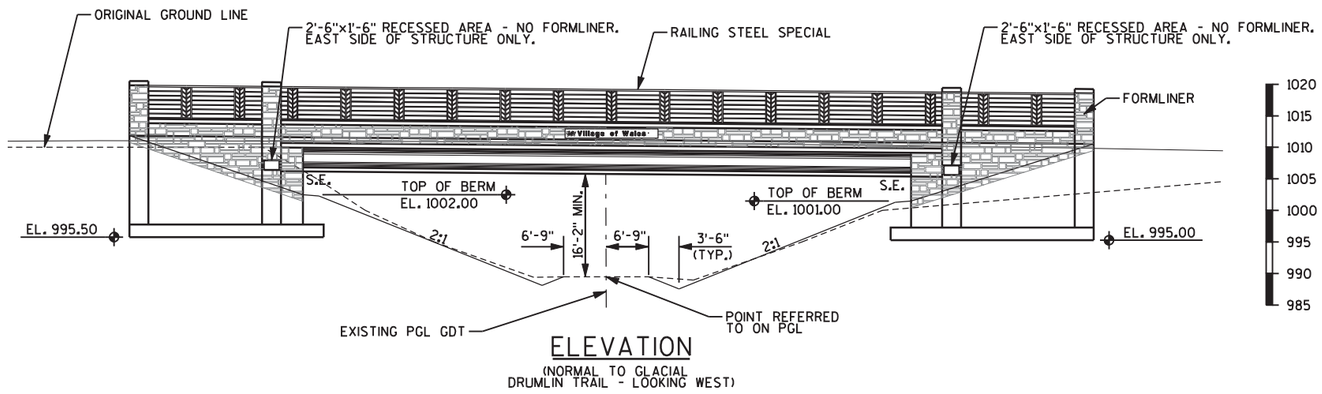
** PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT.

◑ PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT. AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK"



PLAN

SINGLE SPAN 45W PRESTRESSED GIRDER



ELEVATION

(NORMAL TO GLACIAL DRUMLIN TRAIL - LOOKING WEST)

DESIGN DATA

LIVE LOAD
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF=1.18
OPERATING RATING FACTOR: RF=1.70
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 250 KIPS

THE STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF.

ULTIMATE DESIGN STRESSES;
CONCRETE MASONRY SLAB: f'c = 4,000 psi ALL OTHER: f'c = 3,500 psi
BAR STEEL REINFORCEMENT, GRADE 60 — fy = 60,000 psi
45W" PRESTRESSED GIRDERS, CONCRETE MASONRY — f'c = 8,000 psi
STRANDS - 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 psi

FOUNDATION DATA

ABUTMENTS WITH SPREAD FOOTINGS TO BE SUPPORTED ON CLEAN UNDISTURBED SOIL WITH A REQUIRED FACTORED BEARING RESISTANCE OF 5,400 PSF ***. A GEOTECHNICAL ENGINEER WILL DETEREMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE ABUTMENT FOOTING.

*** THE FACTORED BEARING RESISTANCE IS THE VALUE USED FOR DESIGN.

TRAFFIC

ADT = 17,500 (2006)
ADT = 19,100 (2012)
ADT = 24,300 (2032)
DESIGN SPEED = 40 MPH

10/01/2013

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION AND GENERAL NOTES
3. SUBSURFACE EXPLORATION
4. SOUTH ABUTMENT
5. SOUTH ABUTMENT DETAILS 1
6. SOUTH ABUTMENT DETAILS 2
7. SOUTH ABUTMENT DETAILS 3
8. NORTH ABUTMENT
9. NORTH ABUTMENT DETAILS 1
10. NORTH ABUTMENT DETAILS 2
11. NORTH ABUTMENT DETAILS 3
12. ALTERNATE CONSTRUCTION JOINT
13. SLOPE PROTECTION
14. 45W" PRESTRESSED GIRDER DETAILS
15. 45W" PRESTRESSED GIRDER DETAILS
16. FRAMING PLAN
17. STEEL DIAPHRAGM
18. SUPERSTRUCTURE
19. SUPERSTRUCTURE DETAILS 1
20. SUPERSTRUCTURE DETAILS 2
21. MODIFIED SINGLE SLOPE PARAPET 32SS
22. MODIFIED VERTICAL FACE PARAPET TYPE 'A'
23. ELECTRICAL DETAILS
24. RAILING STEEL SPECIAL
25. RAILING STEEL SPECIAL DETAILS
26. AESTHETIC DETAILS

BUREAU OF STRUCTURES CONTACT;
WILLIAM DREHER (608-266-8489)

CONSULTANT CONTACT;
PAUL WIRTH (262-901-2500)

NO.	DATE	REVISION	BY

PATRICK ENGINEERING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher 10/2/13
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-67-329

STH 83 OVER GLACIAL DRUMLIN TRAIL

COUNTY	~~TOWN/CITY~~/VILLAGE
WAUKESHA	WALES

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
PEW	RDW	KEF	RLD

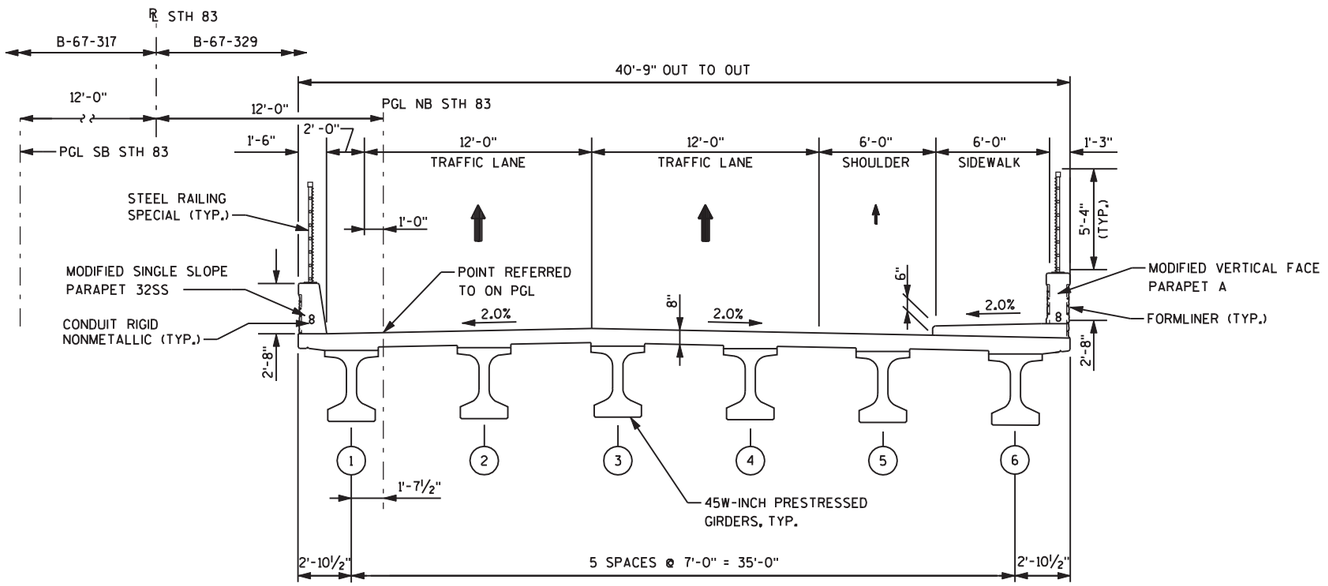
GENERAL PLAN

SHEET 1 OF 26
758

8

8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl



PROPOSED BRIDGE CROSS SECTION

(LOOKING NORTH)

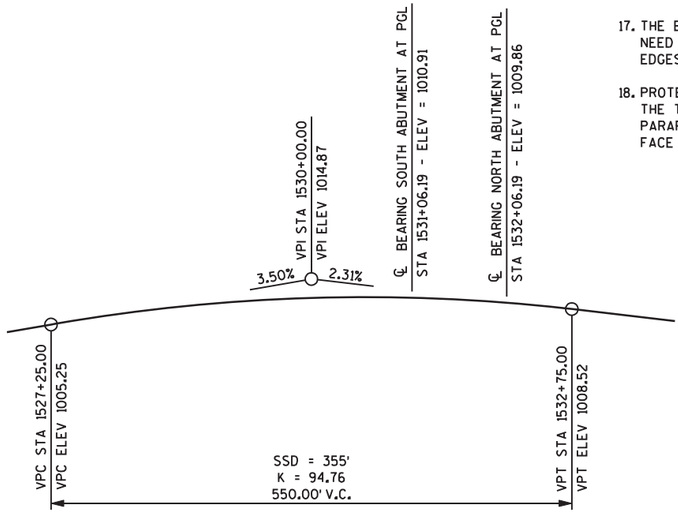
TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	SOUTH ABUTMENT	NORTH ABUTMENT	SUPER	TOTAL
203.0200	REMOVING OLD STRUCTURE (STA 1531+50.00)	LS	----------	----------	----------	1.0
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-67-329	LS	----------	----------	----------	1.0
210.0100	BACKFILL STRUCTURE	CY	520.0	420.0	----------	940.0
502.0100	CONCRETE MASONRY BRIDGES	CY	170.0	164.0	207.0	541.0
502.3200	PROTECTIVE SURFACE TREATMENT	SY	----------	----------	470.0	470.0
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	----------	----------	606.0	606.0
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	9670.0	9560.0	----------	19230.0
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	5560.0	5390.0	31780.0	42730.0
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	6.0	6.0	----------	12.0
506.4000	STEEL DIAPHRAGMS (B-67-329)	EACH	----------	----------	10.0	10.0
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	14.0	13.0	----------	27.0
517.1010.S	CONCRETE STAINING B-67-329	SF	55.0	55.0	2110.0	2220.0
517.1015.S	CONCRETE STAINING MULTI-COLOR B-67-329	SF	895.0	920.0	430.0	2245.0
517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-67-329	SF	950.0	980.0	640.0	2570.0
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	46.0	40.0	----------	86.0
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	82.0	82.0	----------	164.0
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	----------	----------	2.0	2.0
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	100.0	100.0	420.0	620.0
SPV.0090.12	STEEL RAILING DECORATIVE BRIDGE B-67-329	LF	----------	----------	279.0	279.0
SPV.0105.02	MAINTAINING OPERATION AND DEBRIS CONTAINMENT STRUCTURE B-67-329	LS	----------	----------	----------	1.0
SPV.0180.01	SLOPE PAVING CRUSHED AGGREGATE SPECIAL	SY	140.0	140.0	----------	280.0
	NON-BID ITEMS					
	PREFORMED JOINT FILLER	SIZE				3/4"
	NON-BITUMINOUS JOINT FILLER	SIZE				3/4"
	CORK FILLER	SIZE				3/4"
	NAME PLATE	EACH				1

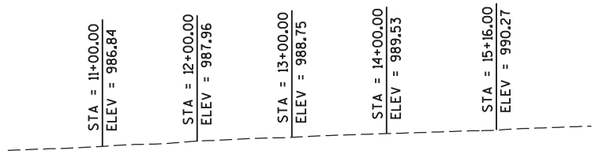
ALL ITEMS ARE CATEGORY 0030

GENERAL NOTES

1. BENDING DIMENSIONS FOR REINFORCING BARS SHOWN ARE OUT-TO-OUT.
2. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
3. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
4. THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING THE TYPE AND LOCATION OF EXISTING UTILITY INSTALLATIONS IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE THE DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES NECESSARY TO AVOID DAMAGE.
5. INFORMATION ON THESE DRAWINGS RELATING TO THE EXISTING BRIDGE IS BASED UPON DRAWINGS AVAILABLE FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION. NO GUARANTY OR WARRANTY IS MADE THAT THE INFORMATION IS ALL INCLUSIVE OR COMPLETELY ACCURATE. THE CONTRACTOR SHALL MAKE THE DETERMINATION OF THE ACTUAL CONDITIONS TO BE ENCOUNTERED.
6. BACKFILL FOUNDATION VOIDS CREATED FROM REMOVING THE EXISTING STRUCTURE WITH SELECT CRUSHED MATERIAL UP TO THE PROPOSED FOOTING ELEVATION. COST SHALL BE INCIDENTAL TO THE BID ITEM "REMOVING OLD STRUCTURE (STA 1531+50.00)"
7. THIS STRUCTURE WILL REPLACE B-67-15 WHICH IS A FIVE-SPAN CONTINUOUS HAUNCHED SLAB STRUCUTRE APPROXIMATELY 160' LONG AND 32.33' WIDE. CONCRETE SPREAD FOOTINGS SUPPORT THE ABUTMENTS AND PIERS. THE CONTRACTOR SHALL REMOVE ALL ELEMENTS OF THE EXISTING BRIDGE THAT INTERFERE WITH THE CONSTRUCTION OF THE PROPOSED BRIDGE.
8. ALL STATIONS AND ELEVATIONS ARE IN FEET.
9. AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.
10. THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE FABRIC TYPE 'HR' TO THE EXTENT SHOWN ON SHEET 13.
11. ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NVGD).
12. DRAWINGS SHALL NOT BE SCALED.
13. FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153, TYPES I, II OR III; OR AASHTO DESIGNATION M213.
14. THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE ABUTMENTS.
15. THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET.
16. PROVIDE A 3/4 " CHAMFER OR RADIUS ON ALL EXPOSED CONCRETE EDGES.
17. THE ELASTOMERIC BEARING PADS NON-LAMINATED NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.
18. PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE TOP OF THE DECK, INSIDE FACE OF THE WEST PARAPET, TOP OF PARAPETS, TOP OF SIDEWALK, AND FACE OF CURB.



PROPOSED PROFILE GRADE LINE - NB STH 83



EXISTING PROFILE GRADE LINE - GLACIAL DRUMLIN TRAIL

STATE PROJECT NUMBER

1330-18-70

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

CROSS SECTION & GENERAL NOTES

SHEET 2 OF 26
759

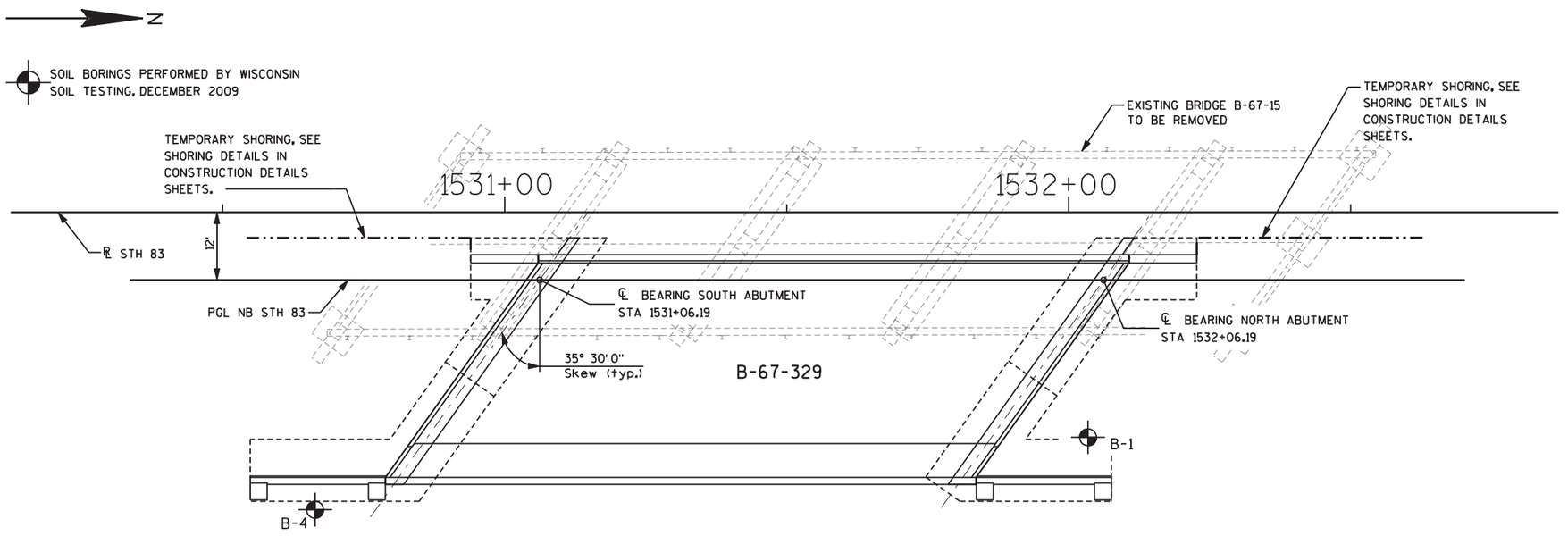
8

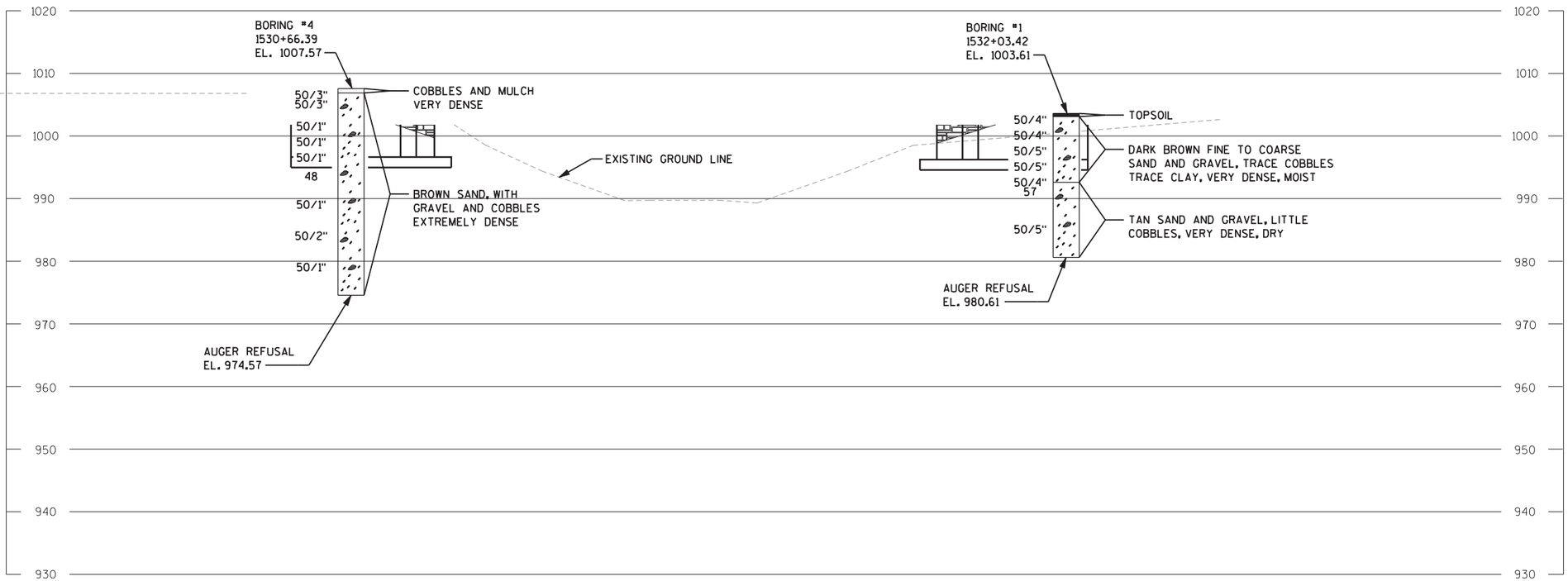
8

Pdf_Dw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081020_gn329.dgn PLOT DATE : 10/1/2013 9:30:58 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 8.0000 ft / IN.

FILE=
SCALE =





STATE PROJECT NUMBER

1330-18-70

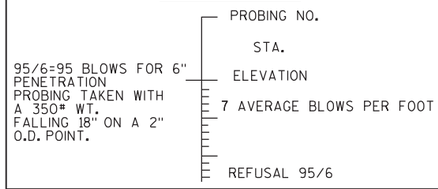
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

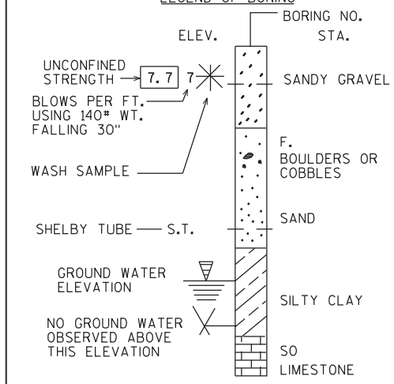
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUDNINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. PEW

SUBSURFACE EXPLORATION

SHEET 3 OF 26
760

8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

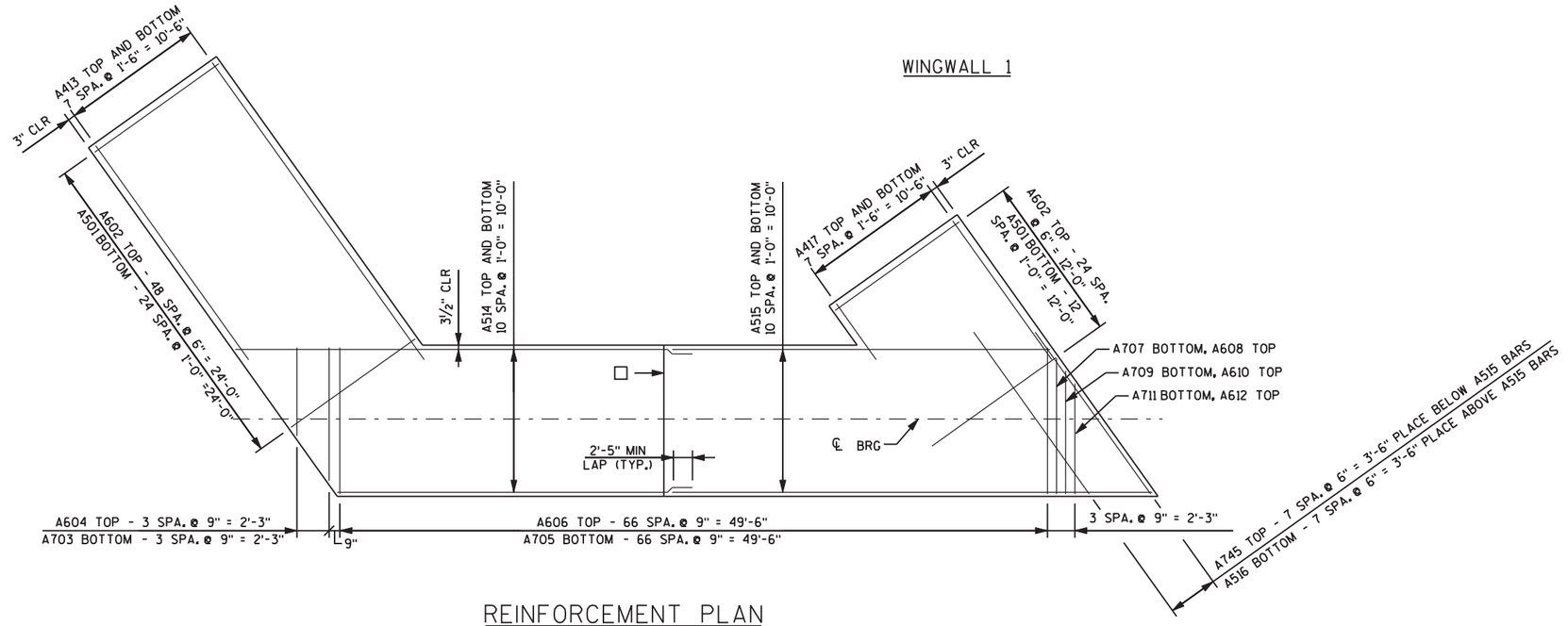
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081030_se329.dgn PLOT DATE : 10/1/2013 9:31:01 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 24.0000 ft / IN.

FILE =
SCALE =

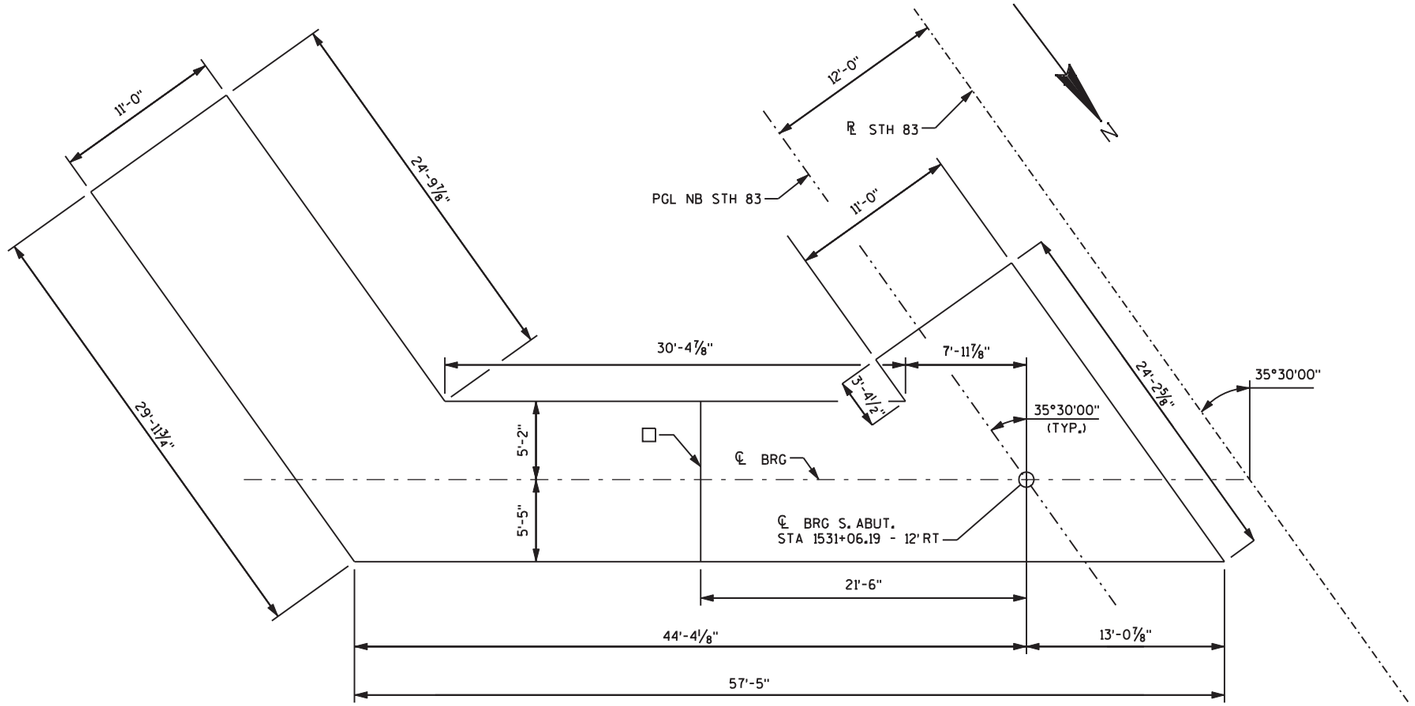
STATE PROJECT NUMBER
1330-18-70

WINGWALL 2

WINGWALL 1



REINFORCEMENT PLAN



FOUNDATION PLAN

NOTES

1. ABUTMENTS WITH SPREAD FOOTINGS TO BE SUPPORTED ON CLEAN UNDISTURBED SOIL WITH A REQUIRED FACTORED BEARING RESISTANCE OF 5,400 PSF. A GEOTECHNICAL ENGINEER WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE ABUTMENT FOOTING.
2. REFER TO SHEETS 5 & 6 FOR THE LOCATION AND SPACING OF THE REINFORCEMENT DOWELS REQUIRED TO BE CAST IN THE FOOTING.

LEGEND

☐ OPTIONAL VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY PEW | PLANS CK'D. RLD

SOUTH ABUTMENT

SHEET 4 OF 26
761

8

8

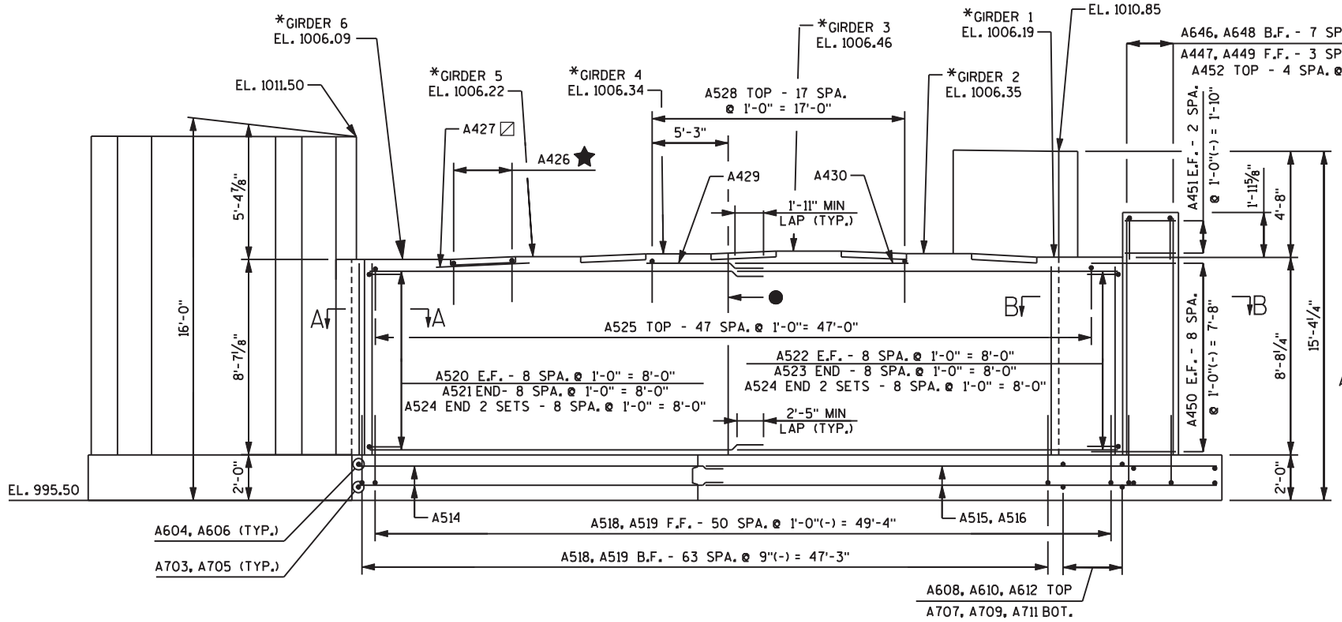
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081100_sab329.dgn PLOT DATE : 10/1/2013 9:31:02 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

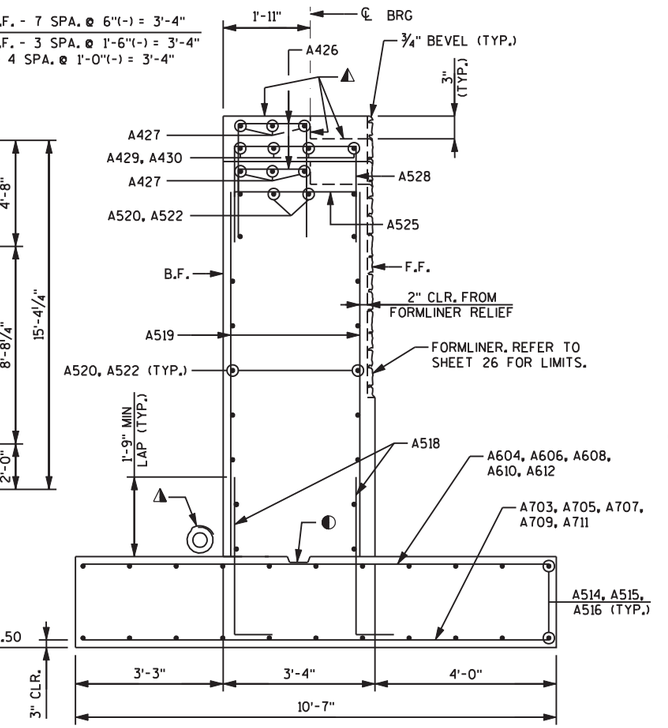
FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



ELEVATION - LOOKING SOUTHWEST



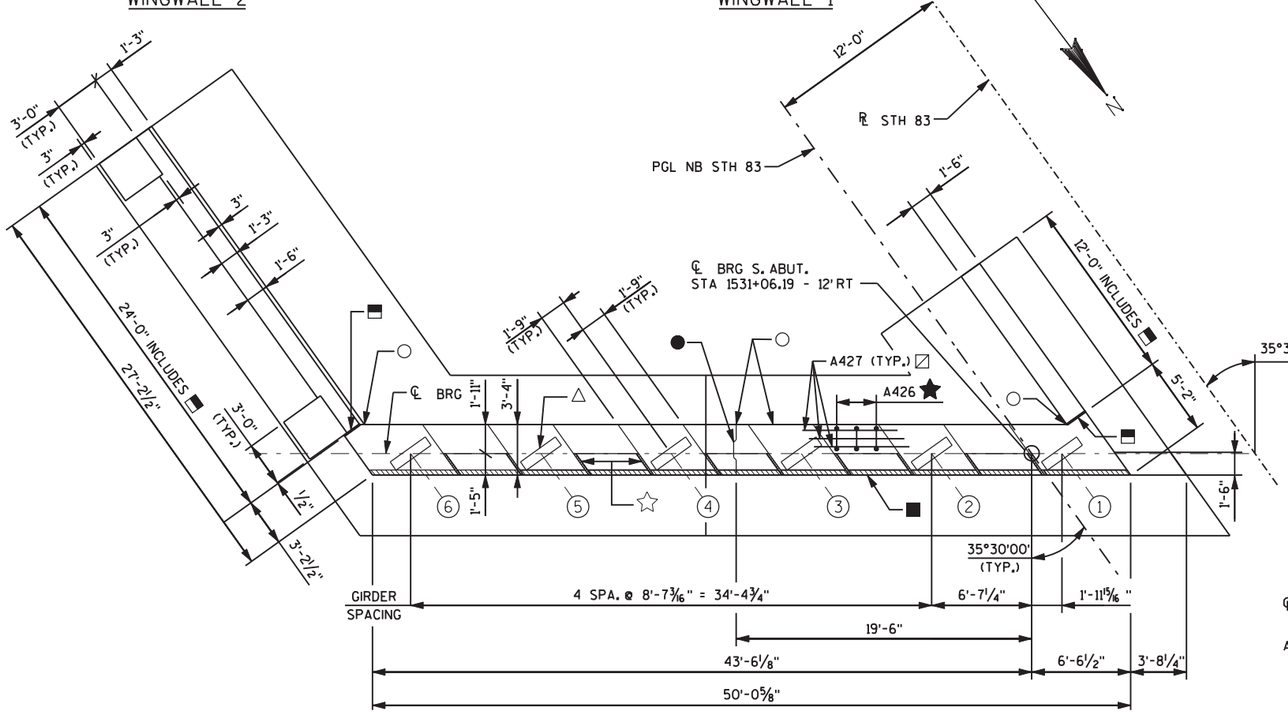
SECTION THRU ABUTMENT BODY

NOTES

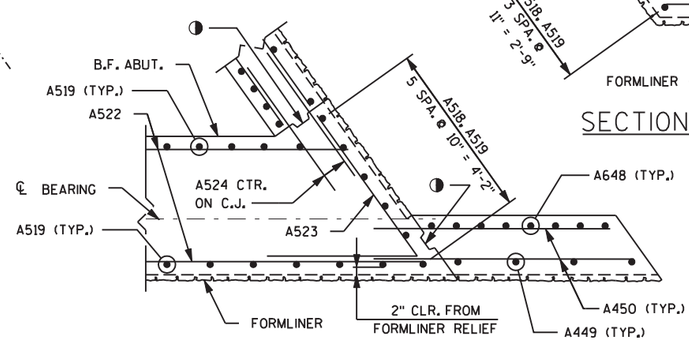
1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

LEGEND

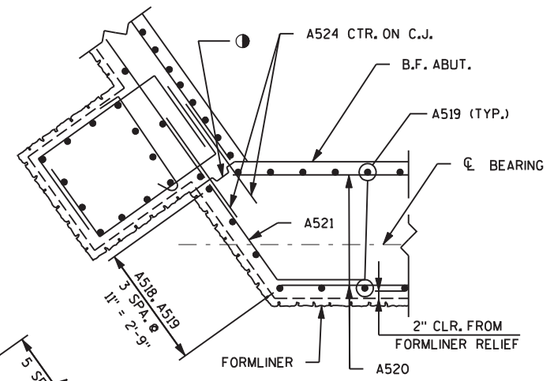
- ● VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8" .
- ○ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- △ BEARING PAD ELASTOMERIC NON-LAMINATED.
- ■ 4" X ¾" FILLER LENGTH OF ABUTMENT.
- ☆ ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.
- (#) GIRDER NUMBER.
- ⬒ ½" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF CONCRETE PARAPET. FILLER INCLUDED IN WING LENGTH.
- ◑ VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6", TOP OF FOOTING TO BEAM SEAT.
- ★ A426 - TWO EQUAL SPACES BETWEEN GIRDER BEAM SEATS TYPICAL.
- ⊘ A427 - TWO EQUAL SPACES EXTEND A MINIMUM OF 1'-0" INTO GIRDER BEAM SEATS.
- ◭ 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".
- ◐ CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6".
- ◭ PIPE UNDERDRAIN WRAPPED 6-INCH. REFER TO SHEET 13 FOR DETAILS.
- * ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE ℄ OF BEARING.



PLAN



SECTION B-B



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY: PEW | PLANS CK'D.: RLD

SOUTH ABUTMENT DETAILS 1

SHEET 5 OF 26
762

8

8

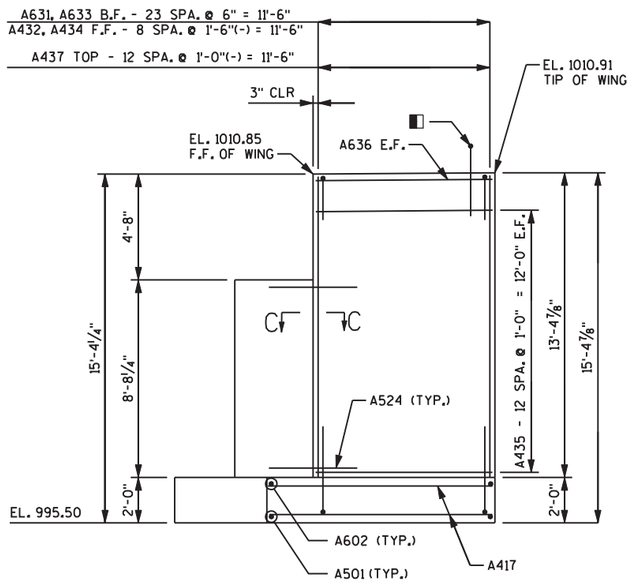
Pdf_Dw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081101_sab329.dgn PLOT DATE : 10/1/2013 9:31:04 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE=
SCALE =

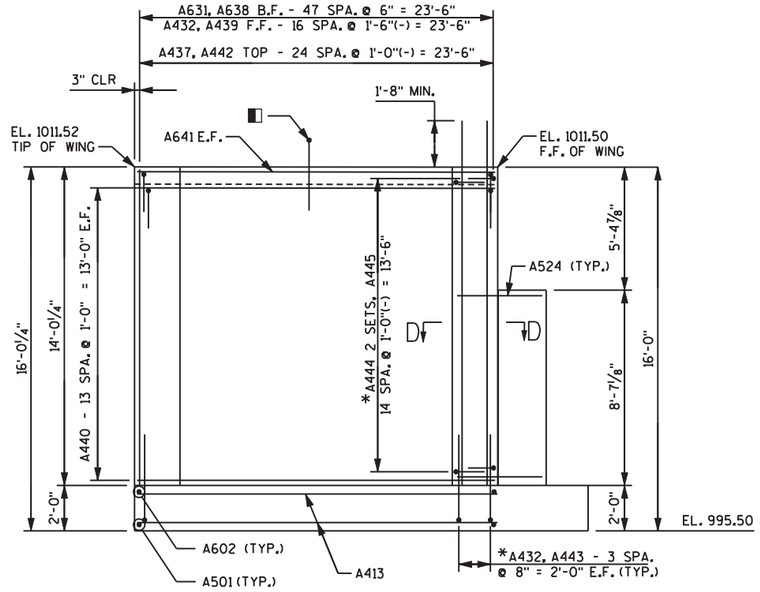
STATE PROJECT NUMBER

1330-18-70



ELEVATION WINGWALL 1

(LOOKING EAST)



*REINFORCEMENT SHOWN FOR RIGHT PILASTER, LEFT PILASTER SIMILAR.
RIENFORCEMENT IN LEFT PILASTER OMITTED FOR CLARITY.

ELEVATION WINGWALL 2

(LOOKING WEST)

NOTES

1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

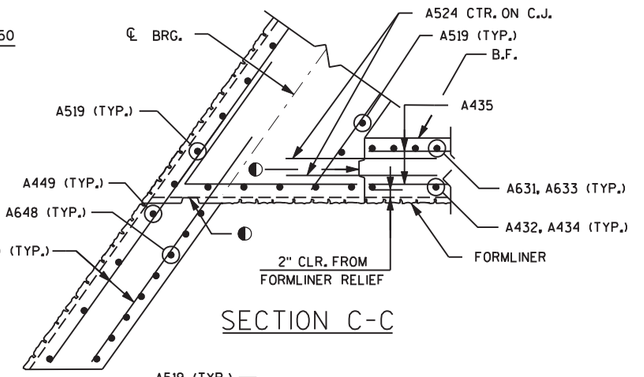
LEGEND

◐ CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6".

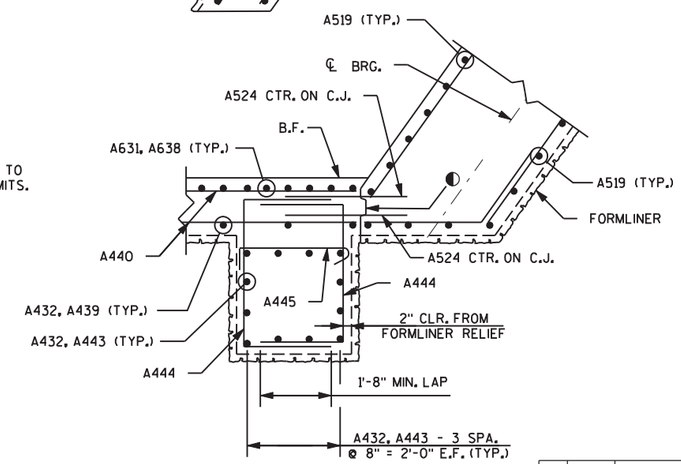
◧ REFER TO SHEETS 21 & 22 FOR THE LOCATION AND SPACING OF THE PARAPET REINFORCEMENT REQUIRED TO BE CAST IN THE STEM.

◭ PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MINIMUM.

⊗ STRIKE OFF TOP OF WINGWALL AS SHOWN ON SHEETS 21 AND 22 AND LEAVE ROUGH.

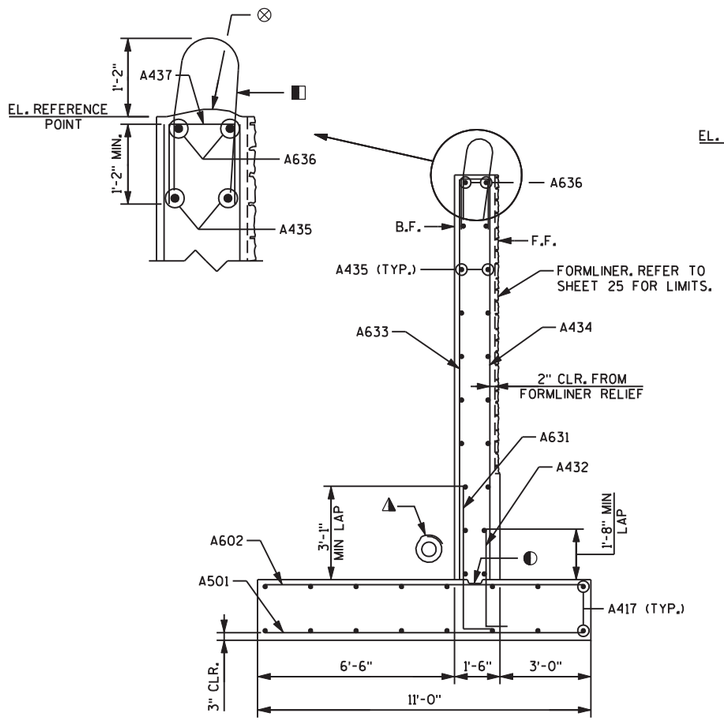


SECTION C-C

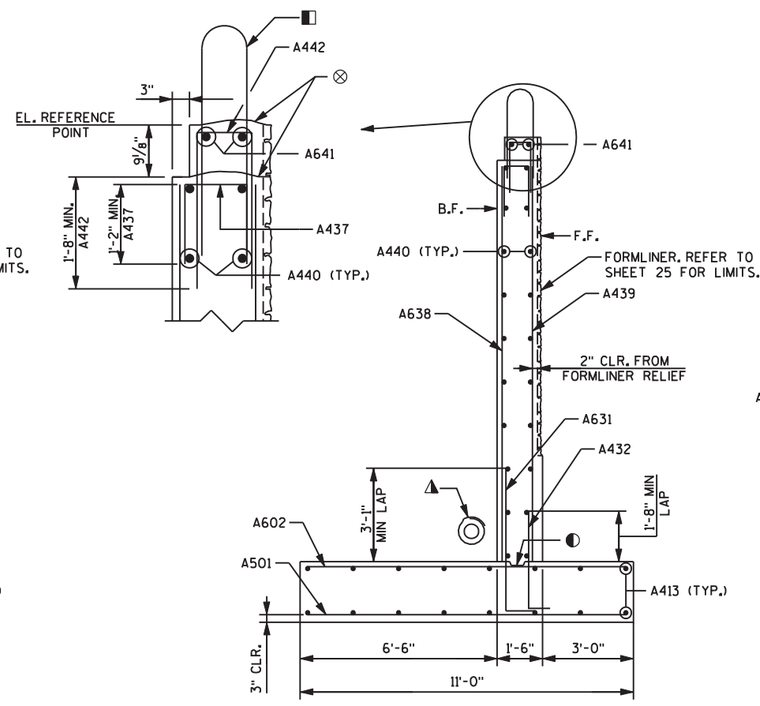


REINFORCEMENT SHOWN FOR RIGHT PILASTER, LEFT PILASTER SIMILAR.

SECTION D-D



WINGWALL 1 SECTION



WINGWALL 2 SECTION

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY PEW | PLANS CK'D. RLD

SOUTH ABUTMENT DETAILS 2

SHEET 6 OF 26
763

Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081102_sab329.dgn PLOT DATE : 10/1/2013 9:31:06 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

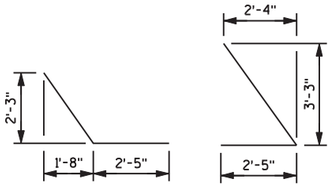
BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
A501		38	10'-8"			WINGWALLS FOOTING TRANSVERSE BOTTOM
A602		74	10'-8"			WINGWALLS FOOTING TRANSVERSE TOP
A703		4	7'-9"		Δ	ABUTMENT FOOTING TRANSVERSE BOTTOM
A604		4	7'-9"		Δ	ABUTMENT FOOTING TRANSVERSE TOP
A705		67	10'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM
A606		67	10'-3"			ABUTMENT FOOTING TRANSVERSE TOP
A707		1	9'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM
A608		1	9'-3"			ABUTMENT FOOTING TRANSVERSE TOP
A709		1	8'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM
A610		1	8'-3"			ABUTMENT FOOTING TRANSVERSE TOP
A711		1	7'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM
A612		1	7'-3"			ABUTMENT FOOTING TRANSVERSE TOP
A413		16	22'-0"		Δ	WINGWALL 2 FOOTING LONGITUDINAL TOP & BOTTOM
A514		22	29'-1"		Δ	ABUTMENT FOOTING LONGITUDINAL TOP AND BOTTOM
A515		22	30'-6"		Δ	ABUTMENT FOOTING LONGITUDINAL TOP AND BOTTOM
A516		8	14'-0"			ABUTMENT FOOTING TRANSVERSE BOTTOM
A417		16	8'-5"		Δ	WINGWALL 1 FOOTING LONGITUDINAL TOP & BOTTOM
A518		123	4'-5"	▲		ABUTMENT FOOTING DOWEL E.F. AND SIDES
A519		123	8'-2"			ABUTMENT VERTICAL E.F. AND SIDES
A520		20	29'-4"			ABUTMENT HORIZONTAL E.F. LEFT OF C.J.
A521		9	5'-3"	▲		ABUTMENT END LEFT OF C.J.
A522		20	23'-5"			ABUTMENT HORIZONTAL E.F. RIGHT OF C.J.
A523		9	6'-5"	▲		ABUTMENT END RIGHT OF C.J.
A524	X	36	5'-10"			ABUTMENT ENDS
A525		48	6'-2"	▲		ABUTMENT TOP
A426		15	4'-5"	▲		ABUTMENT TOP BETWEEN BEAM SEATS
A427		15	6'-4"			ABUTMENT TOP BETWEEN BEAM SEATS
A528		18	5'-6"	▲		ABUTMENT TOP
A429		4	7'-5"			ABUTMENT TOP
A430		4	11'-7"			ABUTMENT TOP
A631	X	72	5'-10"	▲		WW1 & WW2 FOOTING DOWEL B.F.
A432	X	50	4'-2"	▲		WW1, WW2 & PILASTER FOOTING DOWEL F.F.
A633	X	24	13'-2"			WW1 B.F. VERTICAL
A434	X	9	13'-2"			WW1 F.F. VERTICAL
A435	X	26	11'-8"			WW1 HORIZONTAL E.F
A636	X	2	11'-8"			WW1 TOP HORIZONTAL E.F.
A437	X	38	3'-3"	▲		WW1 & WW2 TOP
A638	X	48	13'-10"			WW2 B.F. VERTICAL
A439	X	25	13'-8"			WW2 F.F. VERTICAL
A440	X	28	23'-8"			WW2 HORIZONTAL E.F
A641	X	2	23'-8"			WW2 TOP HORIZONTAL E.F.
A442	X	25	5'-0"	▲		WW2 TOP
A443	X	24	15'-8"			PILASTER VERTICAL
A444	X	60	7'-1"	▲		PILASTER TIES
A745		8	14'-0"			ABUTMENT FOOTING TRANSVERSE TOP
A646	X	8	5'-11"	▲		WALL FOOTING DOWEL B.F.
A447	X	4	4'-3"			WALL FOOTING DOWEL F.F.
A648	X	8	10'-5"			WALL VERTICAL B.F.
A449	X	4	10'-5"			WALL VERTICAL F.F.
A450	X	18	5'-0"			WALL HORIZONTAL E.F.
A451	X	6	3'-4"			WALL HORIZONTAL E.F.
A452	X	5	2'-10"	▲		WALL TOP

Δ 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

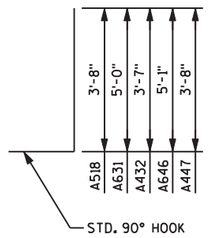
MARK	NO. REQ'D	LENGTH
A703	1 SERIES OF 4	6'-2" TO 9'-4"
A604	1 SERIES OF 4	6'-2" TO 9'-4"
A413	2 SERIES OF 8	18'-5" TO 25'-7"
A514	2 SERIES OF 11	25'-6" TO 32'-8"
A515	2 SERIES OF 11	26'-11" TO 34'-1"
A417	2 SERIES OF 8	4'-10" TO 12'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY.

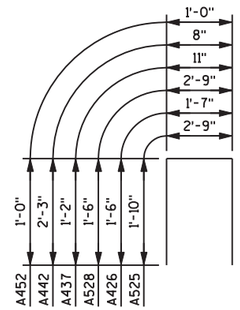


A521

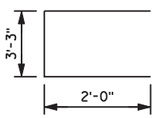
A523



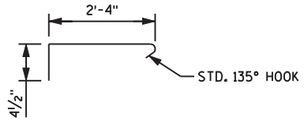
A518, A631, A432. A646, A447



A525, A426, A528, A437, A442, A452



A444



A445

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY PEW | PLANS CK'D. RLD

SOUTH ABUTMENT DETAILS 3

SHEET 7 OF 26
764

8

8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

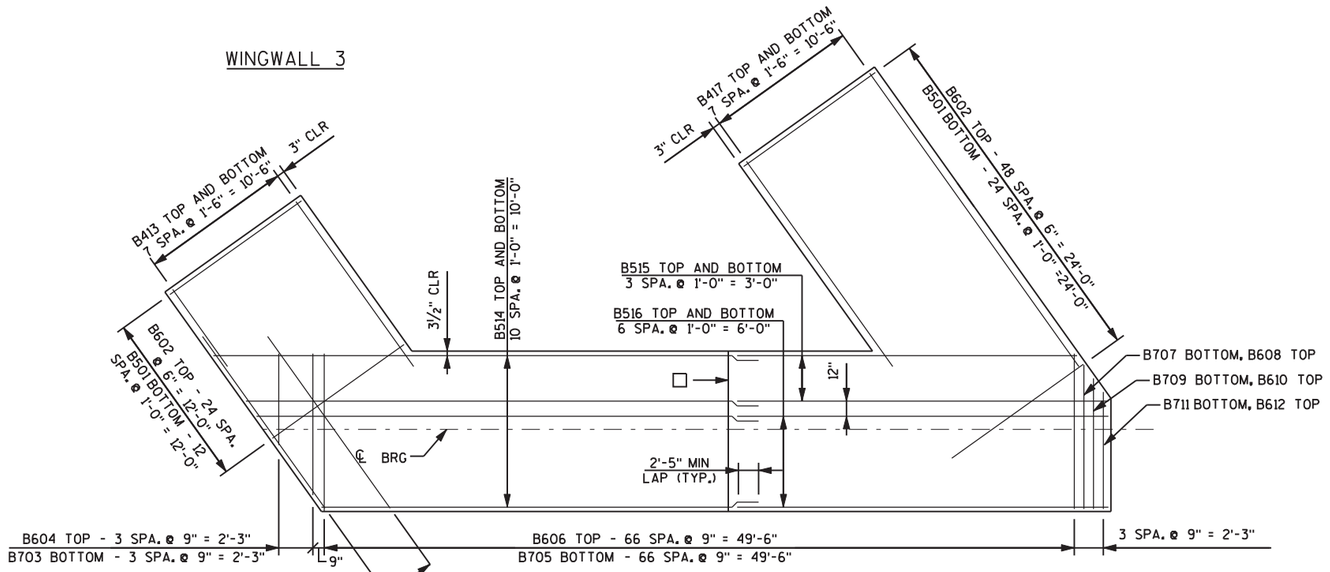
FILE = SCALE =

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081103_sab329.dgn PLOT DATE : 10/1/2013 9:31:08 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

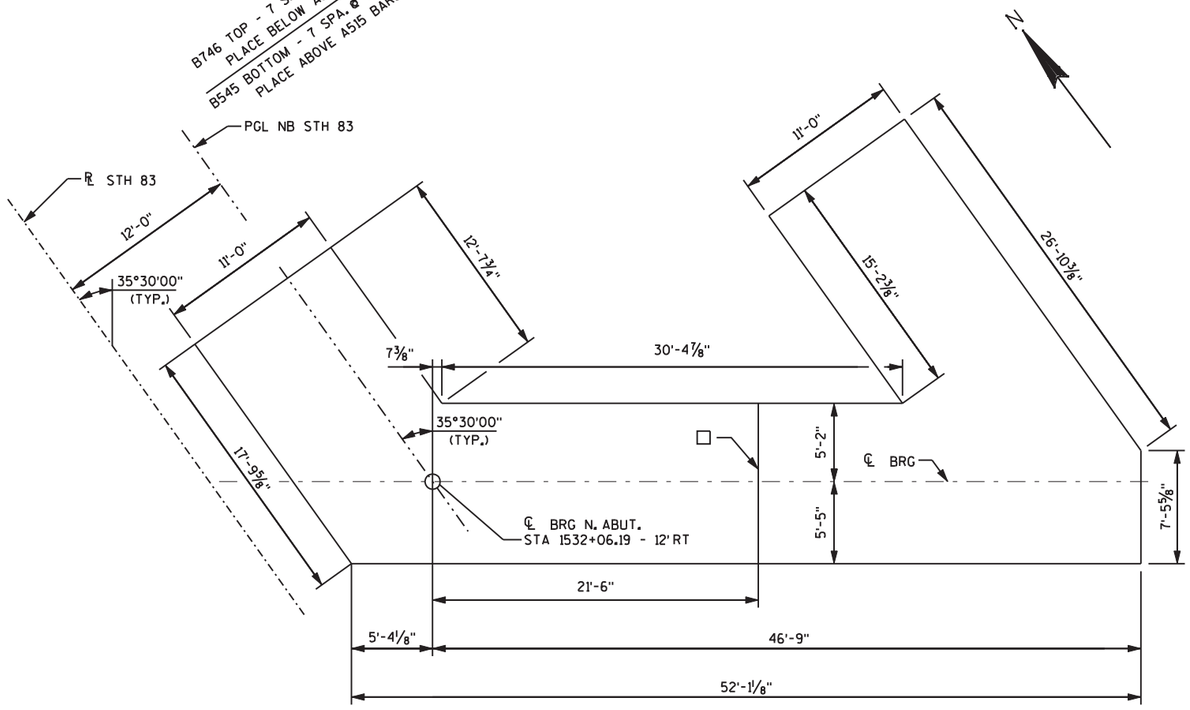
STATE PROJECT NUMBER
1330-18-70

WINGWALL 4

WINGWALL 3



REINFORCEMENT PLAN



FOUNDATION PLAN

NOTES

1. ABUTMENTS WITH SPREAD FOOTINGS TO BE SUPPORTED ON CLEAN UNDISTURBED SOIL WITH A REQUIRED FACTORED BEARING RESISTANCE OF 5,400 PSF. A GEOTECHNICAL ENGINEER WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE ABUTMENT FOOTING.
2. REFER TO SHEETS 9 & 10 FOR THE LOCATION AND SPACING OF THE REINFORCEMENT DOWELS REQUIRED TO BE CAST IN THE FOOTING.

LEGEND

☐ OPTIONAL VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY	PEW	PLANS CK'D.	RLD

NORTH ABUTMENT

SHEET 8 OF 26
765

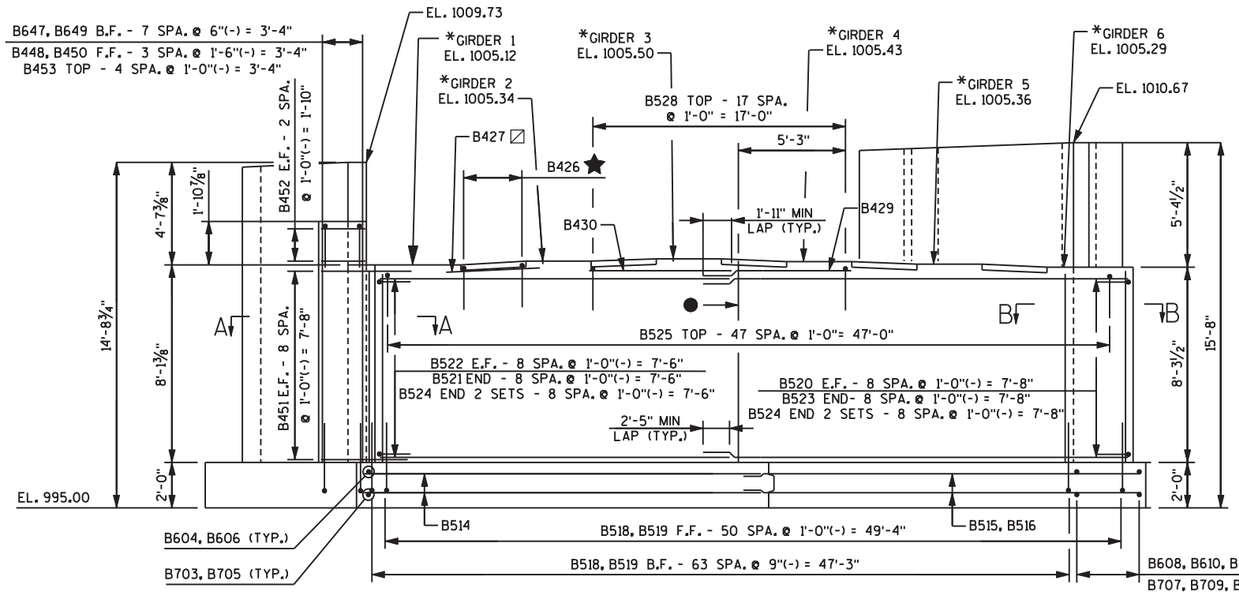
8

8

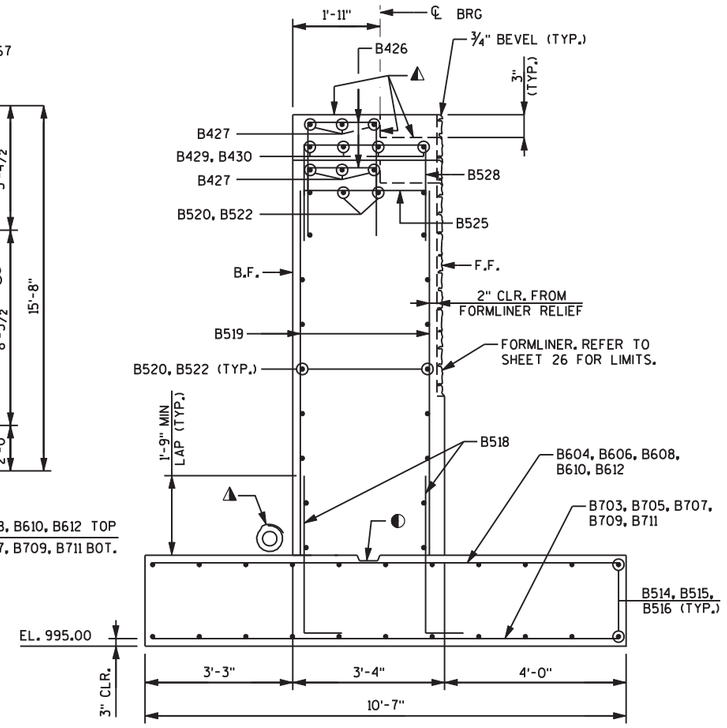
Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081120_nab329.dgn PLOT DATE : 10/1/2013 9:31:09 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE=
SCALE =



ELEVATION - LOOKING NORTHEAST



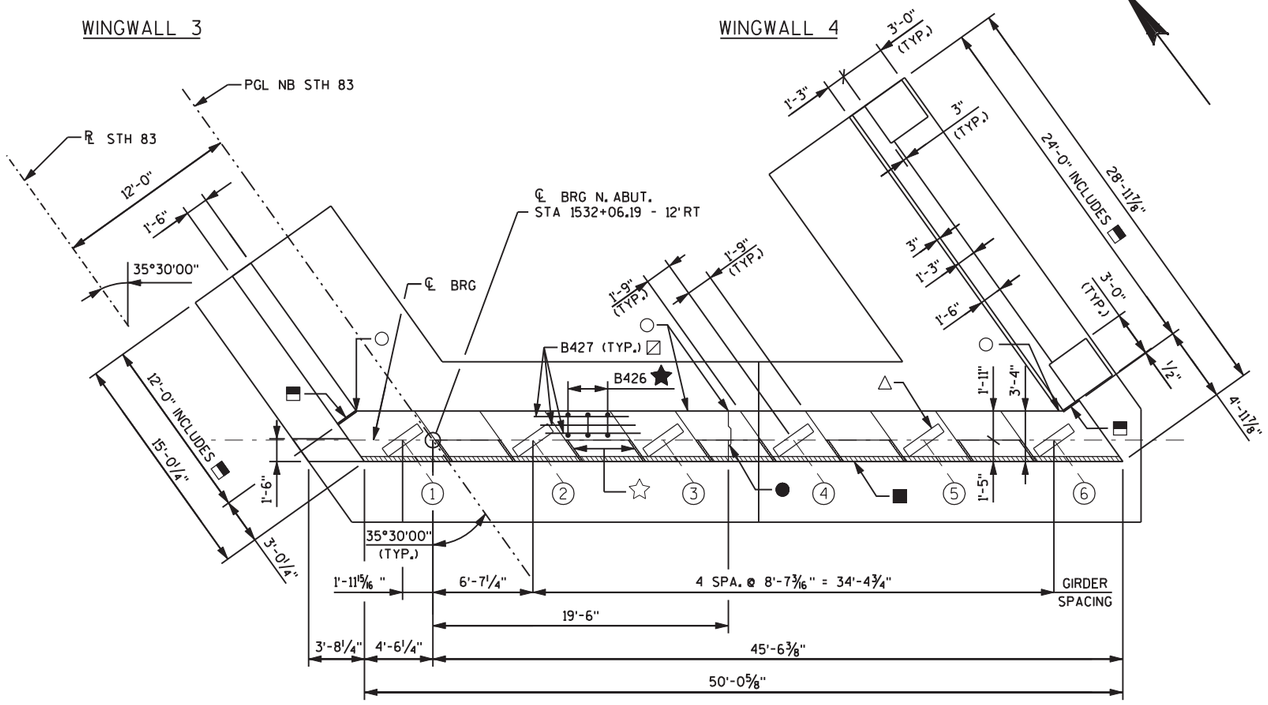
SECTION THRU ABUTMENT BODY

NOTES

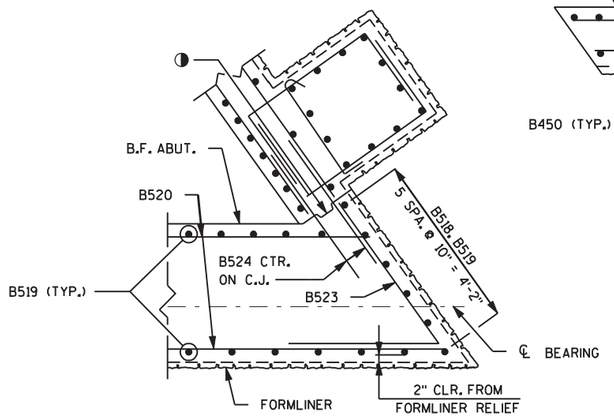
1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

LEGEND

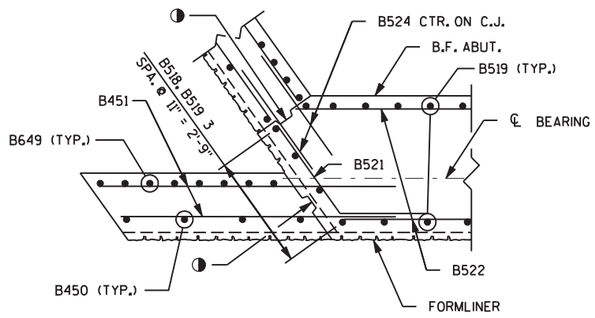
- ● VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8" .
- ○ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.
- △ BEARING PAD ELASTOMERIC NON-LAMINATED.
- ■ 4" X ¾" FILLER LENGTH OF ABUTMENT.
- ☆ ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.
- (#) GIRDER NUMBER.
- ▬ ½" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF CONCRETE PARAPET. FILLER INCLUDED IN WING LENGTH.
- ◑ VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6", TOP OF FOOTING TO BEAM SEAT.
- ★ A426 - TWO EQUAL SPACES BETWEEN GIRDER BEAM SEATS TYPICAL.
- ▨ A427 - TWO EQUAL SPACES EXTEND A MINIMUM OF 1'-0" INTO GIRDER BEAM SEATS.
- ◭ 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".
- ◐ CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6".
- ◭ PIPE UNDERDRAIN WRAPPED 6-INCH. REFER TO SHEET 13 FOR DETAILS.
- * ELEVATIONS ARE GIVEN AT THE TOP OF THE CONCRETE AT THE ℄ OF BEARING.



PLAN



SECTION B-B



SECTION A-A

STATE PROJECT NUMBER

1330-18-70

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY PEW | PLANS CK'D. RLD

NORTH ABUTMENT DETAILS 1

SHEET 9 OF 26
766

8

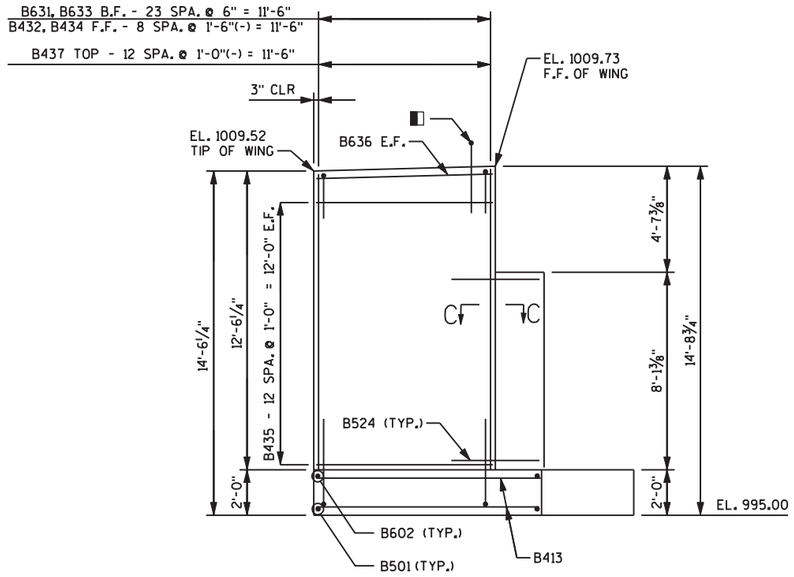
8

Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081121_nab329.dgn PLOT DATE : 10/1/2013 9:31:10 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

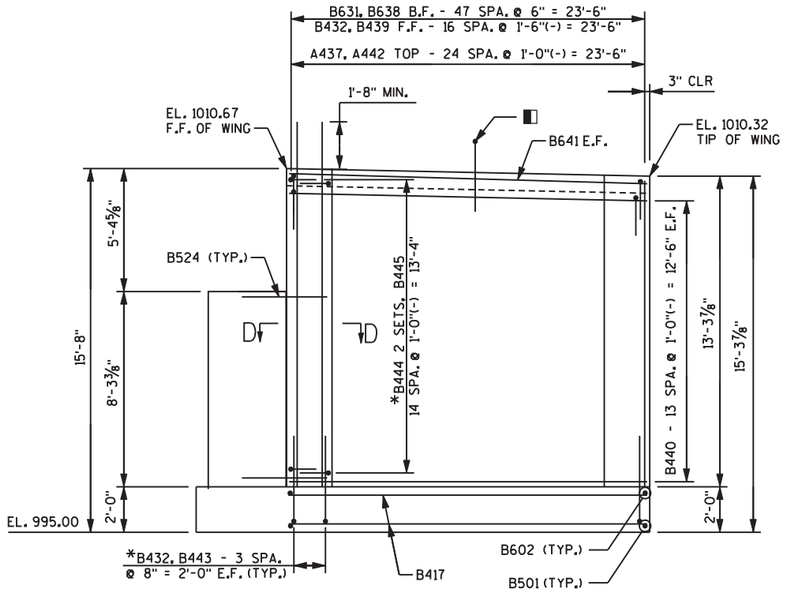
FILE=
SCALE =

STATE PROJECT NUMBER
1330-18-70



ELEVATION WINGWALL 3

(LOOKING EAST)



*REINFORCEMENT SHOWN FOR LEFT PILASTER, RIGHT PILASTER SIMILAR. RIENFORCEMENT IN RIGHT PILASTER OMITTED FOR CLARITY.

ELEVATION WINGWALL 4

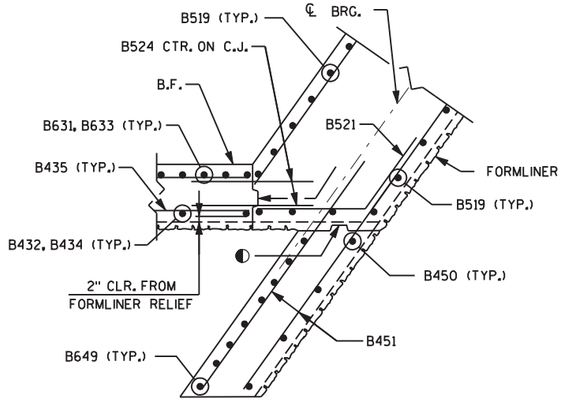
(LOOKING WEST)

NOTES

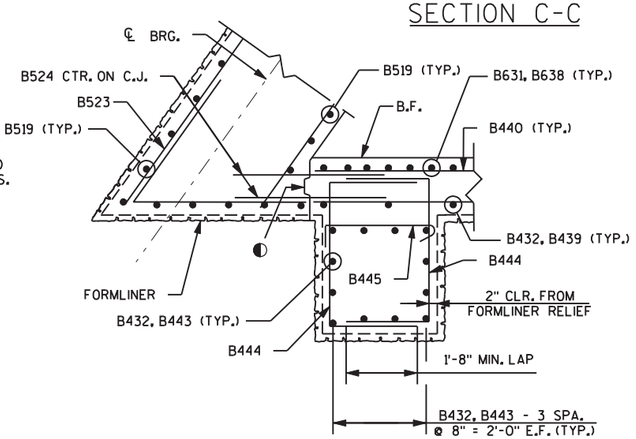
1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

LEGEND

- ◐ CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 6".
- ◧ REFER TO SHEETS 21 & 22 FOR THE LOCATION AND SPACING OF THE PARAPET REINFORCEMENT REQUIRED TO BE CAST IN THE STEM.
- ◭ PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MINIMUM.
- ⊗ STRIKE OFF TOP OF WINGWALL AS SHOWN ON SHEETS 21 AND 22 AND LEAVE ROUGH.

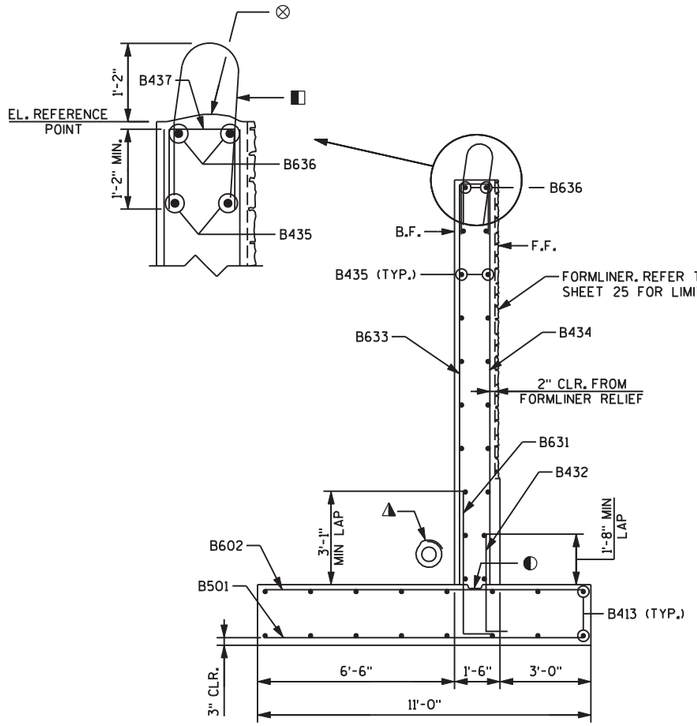


SECTION C-C

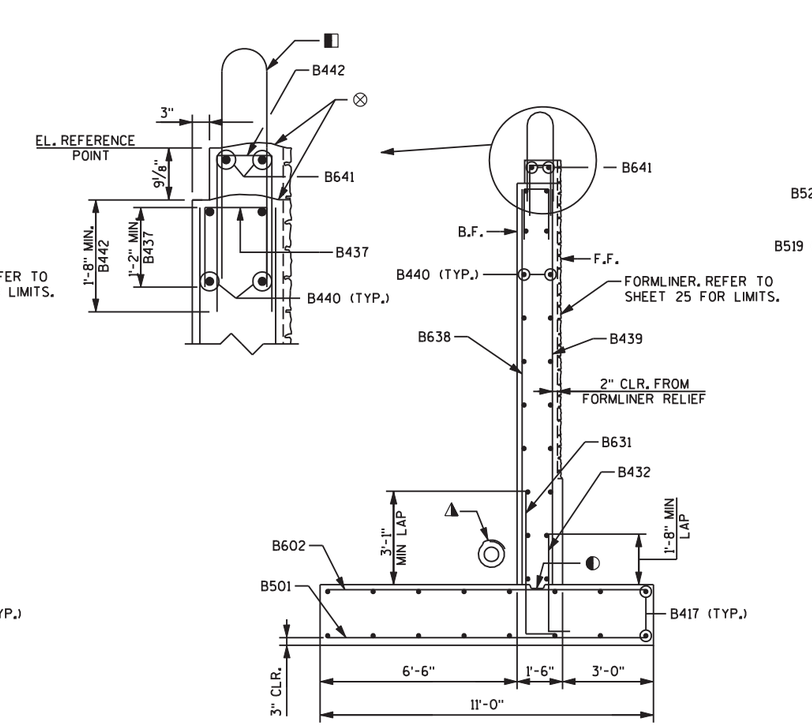


REINFORCEMENT SHOWN FOR LEFT PILASTER, RIGHT PILASTER SIMILAR.

SECTION D-D



WINGWALL 3 SECTION



WINGWALL 4 SECTION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY: PEW | PLANS CK'D.: RLD

NORTH ABUTMENT DETAILS 2

SHEET 10 OF 26
767

8

8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081122_nab329.dgn PLOT DATE : 10/1/2013 9:31:12 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE=
SCALE =

STATE PROJECT NUMBER
1330-18-70

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

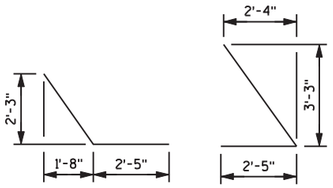
BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
B501		38	10'-8"			WINGWALLS FOOTING TRANSVERSE BOTTOM
B602		74	10'-8"			WINGWALLS FOOTING TRANSVERSE TOP
B703		4	7'-9"		Δ	ABUTMENT FOOTING TRANSVERSE BOTTOM
B604		4	7'-9"		Δ	ABUTMENT FOOTING TRANSVERSE TOP
B705		67	10'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM
B606		67	10'-3"			ABUTMENT FOOTING TRANSVERSE TOP
B707		1	9'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM
B608		1	9'-3"			ABUTMENT FOOTING TRANSVERSE TOP
B709		1	8'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM
B610		1	8'-3"			ABUTMENT FOOTING TRANSVERSE TOP
B711		1	7'-3"			ABUTMENT FOOTING TRANSVERSE BOTTOM
B612		1	7'-3"			ABUTMENT FOOTING TRANSVERSE TOP
B413		16	9'-10"		Δ	WINGWALL 3 FOOTING LONGITUDINAL TOP & BOTTOM
B514		22	33'-1"		Δ	ABUTMENT FOOTING LONGITUDINAL TOP AND BOTTOM
B515		8	23'-11"		Δ	ABUTMENT FOOTING LONGITUDINAL TOP AND BOTTOM
B516		14	24'-11"			ABUTMENT FOOTING LONGITUDINAL TOP AND BOTTOM
B417		16	20'-4"		Δ	WINGWALL 4 FOOTING LONGITUDINAL TOP & BOTTOM
B518		123	4'-5"	▲		ABUTMENT FOOTING DOWEL E.F. AND SIDES
B519		123	7'-8"			ABUTMENT VERTICAL E.F. AND SIDES
B520		20	28'-10"			ABUTMENT HORIZONTAL E.F. RIGHT OF C.J.
B521		9	5'-3"	▲		ABUTMENT END LEFT OF C.J.
B522		20	23'-10"			ABUTMENT HORIZONTAL E.F. LEFT OF C.J.
B523		9	6'-5"	▲		ABUTMENT END RIGHT OF C.J.
B524	X	36	5'-10"			ABUTMENT ENDS
B525		48	6'-2"	▲		ABUTMENT TOP
B426		15	4'-5"	▲		ABUTMENT TOP BETWEEN BEAM SEATS
B427		15	6'-4"			ABUTMENT TOP BETWEEN BEAM SEATS
B528		18	5'-6"	▲		ABUTMENT TOP
B429		4	7'-5"			ABUTMENT TOP
B430		4	11'-7"			ABUTMENT TOP
B631	X	72	5'-10"	▲		WW3 & WW4 FOOTING DOWEL B.F.
B432	X	50	4'-2"	▲		WW3, WW4 & PILASTER FOOTING DOWEL F.F.
B633	X	24	12'-4"			WW3 B.F. VERTICAL
B434	X	9	12'-4"			WW3 F.F. VERTICAL
B435	X	26	11'-8"			WW3 HORIZONTAL E.F
B636	X	2	11'-8"			WW3 TOP HORIZONTAL E.F.
B437	X	38	3'-5"	▲		WW3 & WW4 TOP
B638	X	48	13'-2"			WW4 B.F. VERTICAL
B439	X	17	13'-2"			WW4 F.F. VERTICAL
B440	X	28	23'-8"			WW4 HORIZONTAL E.F
B641	X	2	23'-8"			WW4 TOP HORIZONTAL E.F.
B442	X	25	5'-0"	▲		WW4 TOP
B443	X	24	15'-4"			PILASTER VERTICAL
B444	X	60	7'-1"	▲		PILASTER TIES
B545		8	14'-0"			ABUTMENT FOOTING TRANSVERSE BOTTOM
B746		8	14'-0"			ABUTMENT FOOTING TRANSVERSE TOP
B647	X	8	5'-11"	▲		WALL FOOTING DOWEL B.F.
B448	X	4	4'-3"			WALL FOOTING DOWEL F.F.
B649	X	8	10'-5"			WALL VERTICAL B.F.
B450	X	4	10'-5"			WALL VERTICAL F.F.
B451	X	18	5'-0"			WALL HORIZONTAL E.F.
B452	X	6	3'-4"			WALL HORIZONTAL E.F.
B453	X	5	2'-10"	▲		WALL TOP

Δ 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

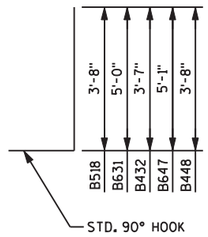
MARK	NO. REQ'D	LENGTH
B703	1 SERIES OF 4	6'-2" TO 9'-4"
B604	1 SERIES OF 4	6'-2" TO 9'-4"
B413	2 SERIES OF 8	6'-3" TO 13'-4"
B514	2 SERIES OF 11	29'-6" TO 36'-8"
B515	2 SERIES OF 4	22'-10" TO 24'-11"
B417	2 SERIES OF 8	16'-8" TO 24'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY.

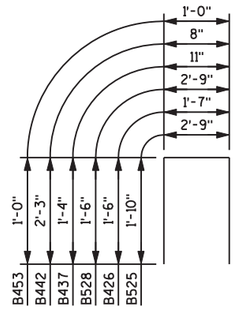


B521

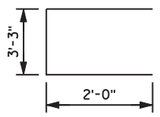
B523



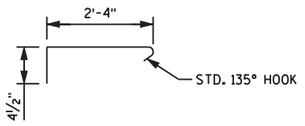
B518, B631, B432, B647, B448



B525, B426, B528, B437, B442, B453



B444



B445

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY PEW | PLANS CK'D. RLD

NORTH ABUTMENT DETAILS 3

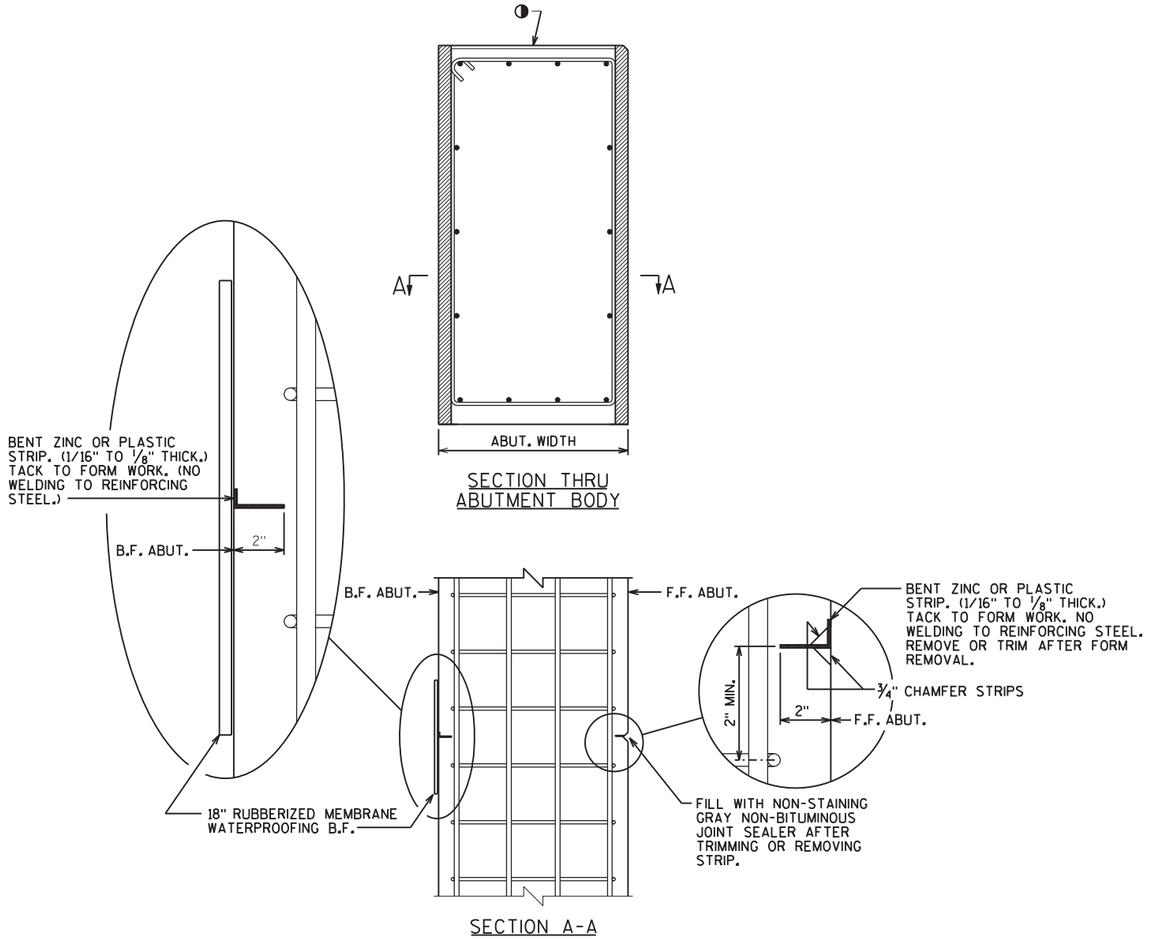
SHEET 11 OF 26
768

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081123_nab329.dgn PLOT DATE : 10/1/2013 9:31:14 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 sf / IN.

FILE=
SCALE =

STATE PROJECT NUMBER
1330-18-70



SECTION THRU ABUTMENT BODY

SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

ALTERNATE CONSTRUCTION JOINT

SHEET 12 OF 26
769

8

8

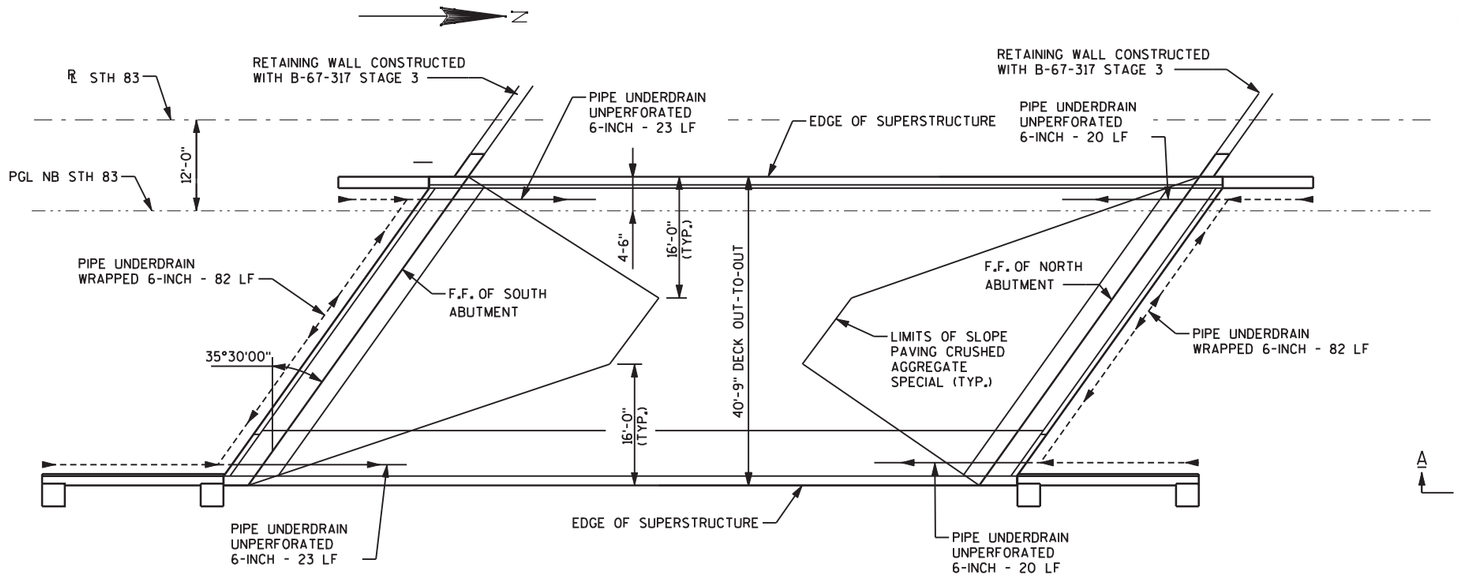
Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081124_nab329.dgn PLOT DATE : 10/1/2013 9:31:15 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

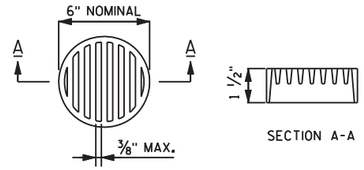
1330-18-70



PLAN

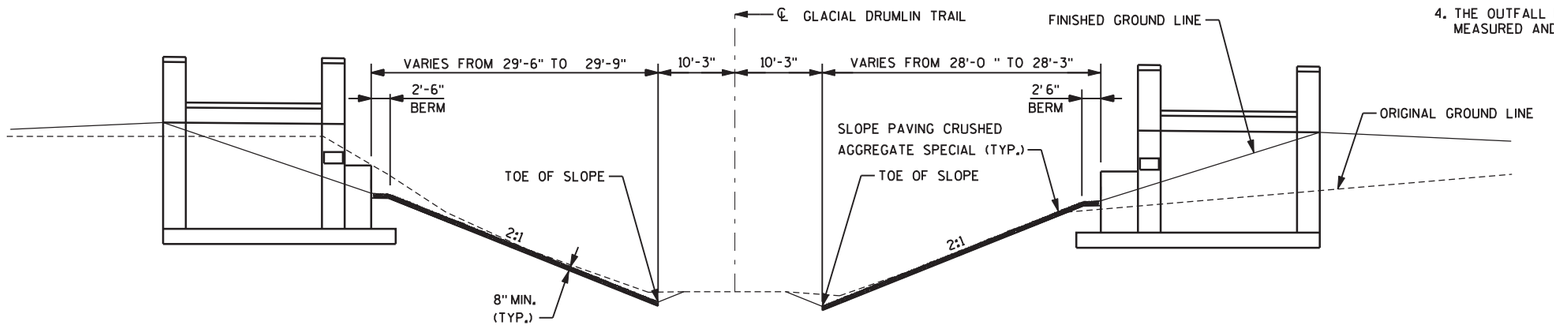
NOTES

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.
2. WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.
3. SLOPE UNDERDRAINS A MINIMUM OF 0.5% TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN..



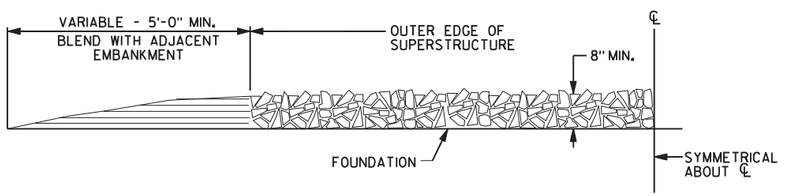
RODENT SHIELD

1. 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 THREE OR MORE NO. 10 x 1-INCH STAINLESS STEEL SHEET METAL SCREWS.
2. ORIENT SHIELD SO THE SLOTS ARE VERTICAL.
3. DIMENSIONS SHOWN ARE APPROXIMATE. THE GRATE SHALL BE SIZED TO FIT INTO A PIPE COUPLING.
4. THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.



ELEVATION

(NORMAL TO GLACIAL DRUMLIN TRAIL
EAST ELEVATION - LOOKING WEST)



SECTION ALONG ABUTMENT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JIJ | PLANS CK'D. RLD

SLOPE PROTECTION

SHEET 13 OF 26
770

8

8

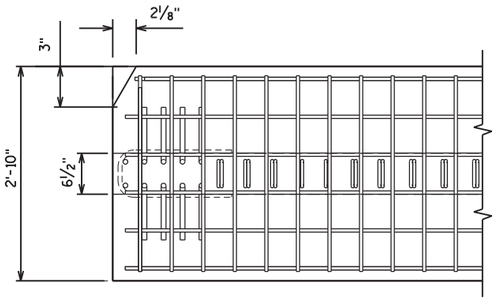
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081140_sp329.dgn PLOT DATE : 10/1/2013 9:31:17 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 sf / IN.

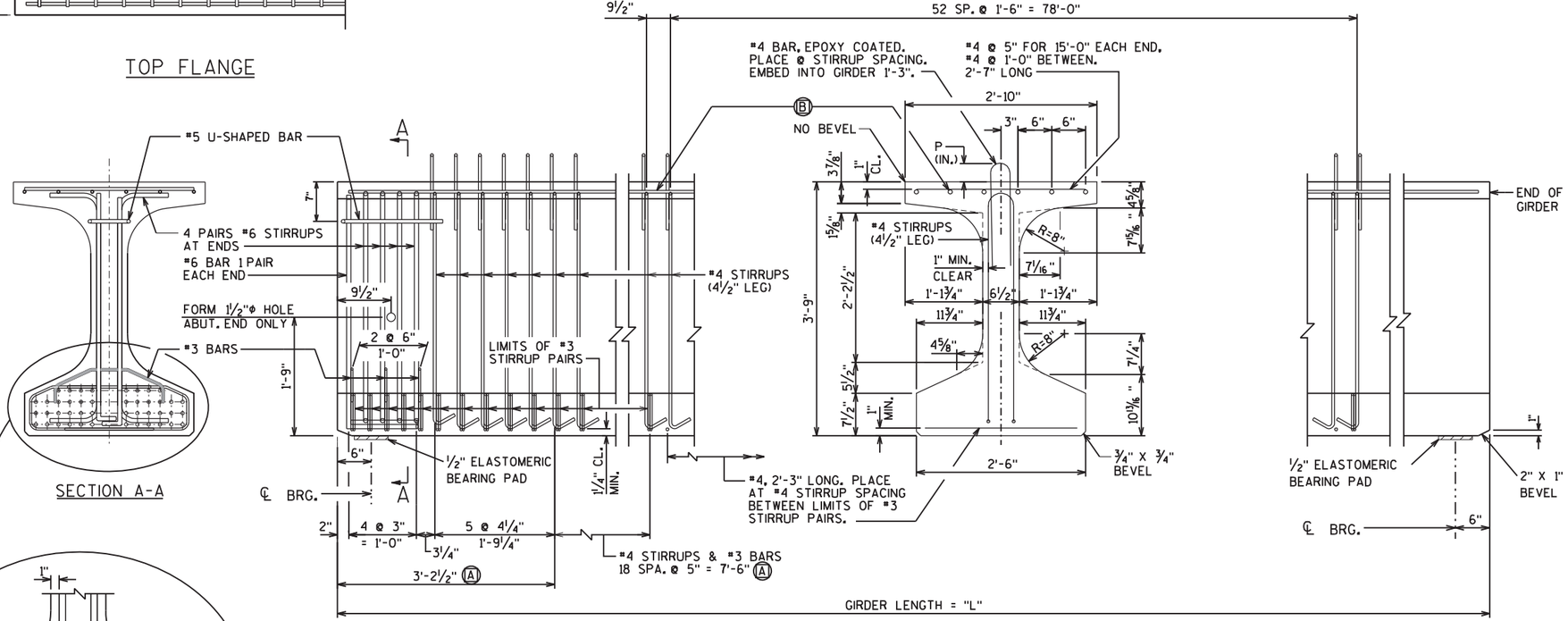
FILE=
SCALE =

STATE PROJECT NUMBER

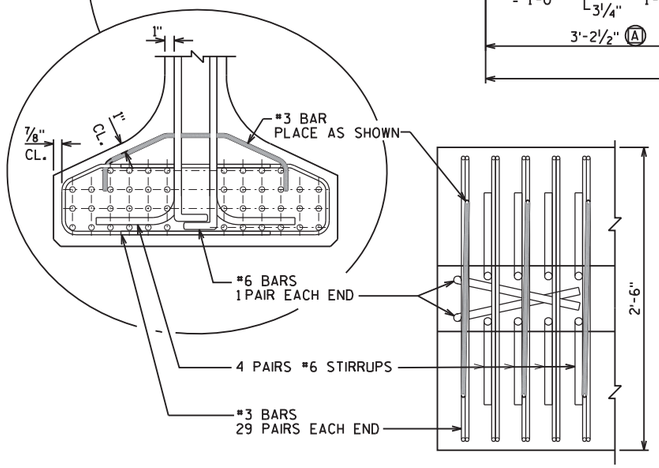
1330-18-70



TOP FLANGE



SECTION A-A



BOTTOM FLANGE

SIDE VIEW & TYP. SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"

GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF THE GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

STRANDS SHALL BE FLUSH WITH THE END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, ENDS OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

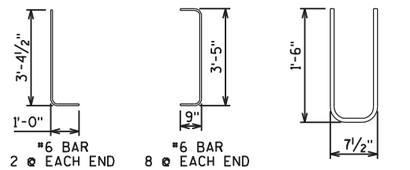
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, ONE OPTION IS AVAILABLE:

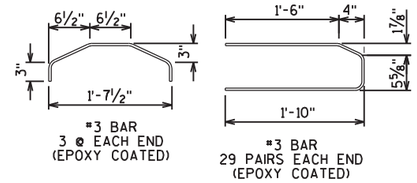
USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE 0.6" DIA.-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.





⁂ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

⁂⁂ REFER TO SHEET 15 FOR LOCATION OF DIMENSIONS "A", "B", AND "C".

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	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 TOTAL NO. OF STRANDS	f'ci (P.S.I.) ⁂	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) ⁂
1	1 - 6	101'-0"	0.6	1.1	1.5	1.8	1.9	1.8	1.5	1.1	0.6	8000	7"	7"	7"	0.60	34	6800	40.0	13.75	16.75	5.0		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

45W" PRESTRESSED GIRDER DETAILS

SHEET 14 OF 26
771

8

8

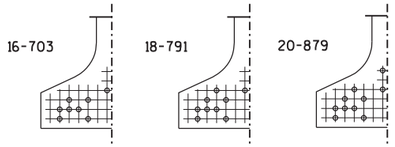
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081200_gr329.dgn PLOT DATE : 10/1/2013 9:31:18 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

FILE =
SCALE =

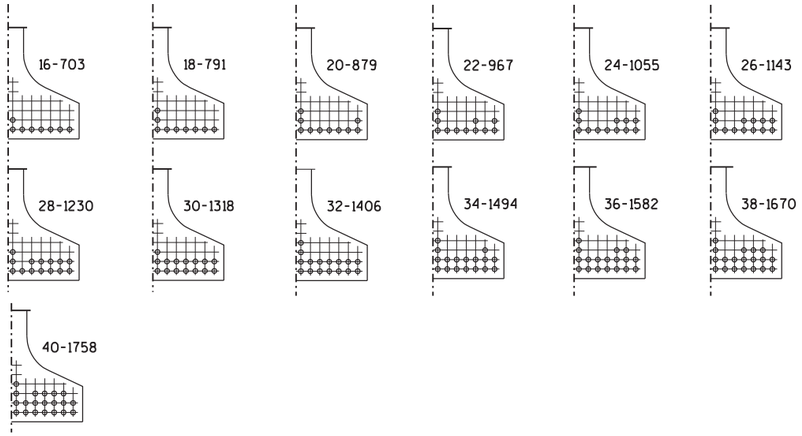
STATE PROJECT NUMBER

1330-18-70



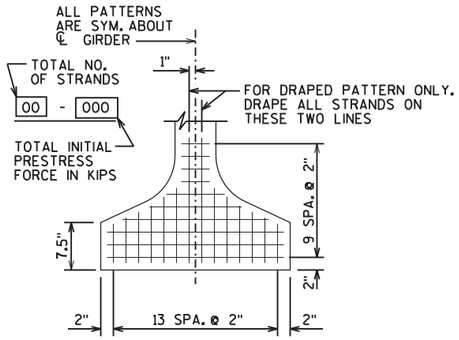
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS

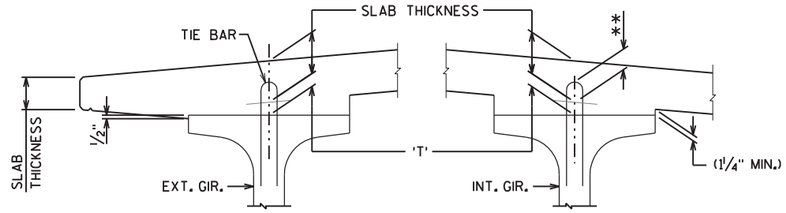


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



TYP. STRAND PATTERN



SLAB HAUNCH DETAIL

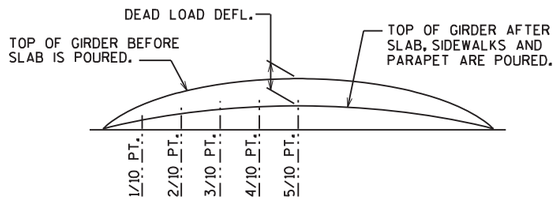
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

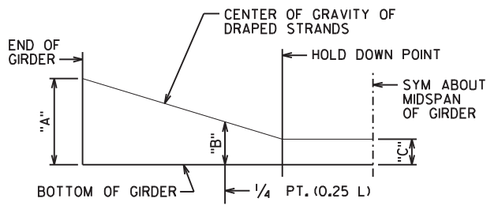
TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 2¾" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM



DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	3.6

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T'. USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

45W" PRESTRESSED GIRDER DETAILS

SHEET 15 OF 26
772

8

8

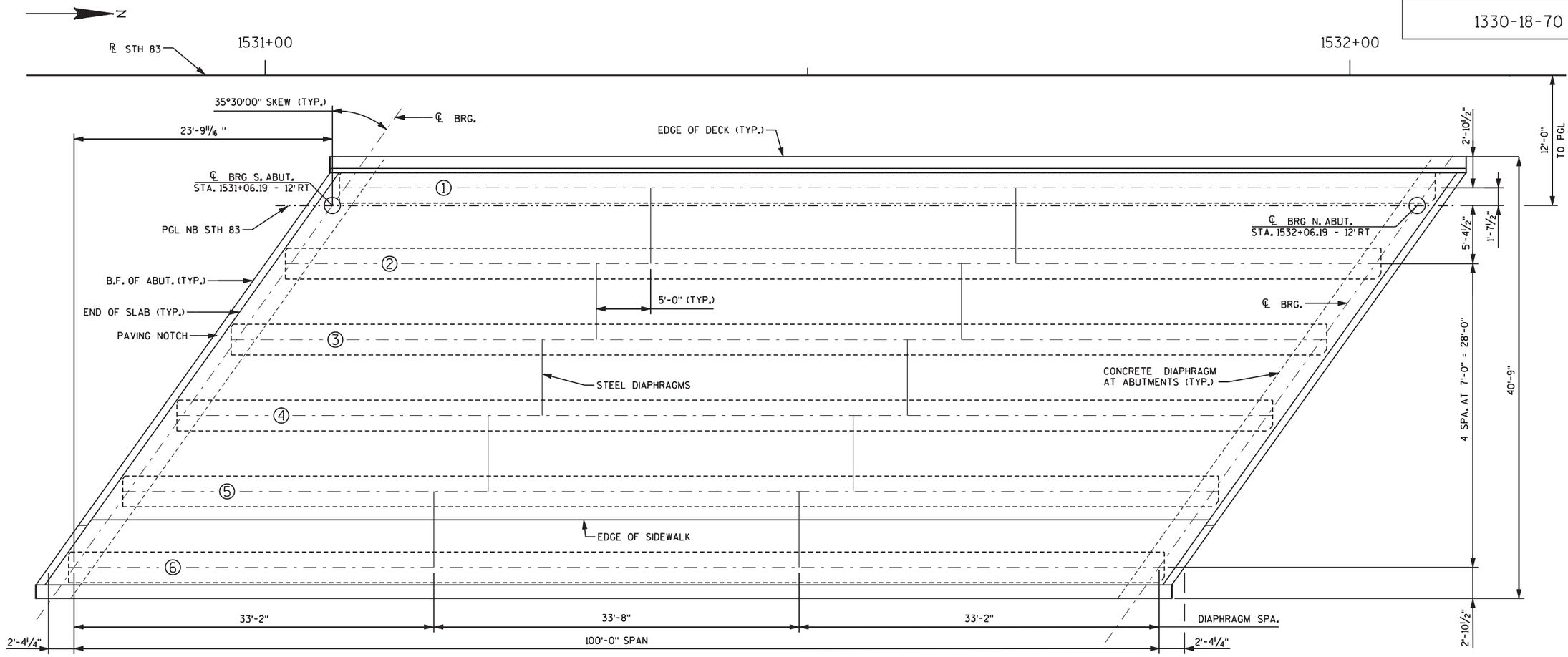
Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081201_gr329.dgn PLOT DATE : 10/1/2013 9:31:20 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



GIRDER FRAMING PLAN

TOP OF DECK ELEVATIONS

	CL BRG. S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	CL BRG. N. ABUT.
LT. E.O.D. *	1010.80	1010.74	1010.67	1010.59	1010.50	1010.39	1010.28	1010.15	1010.02	1009.87	1009.72
GIRDER 1	1010.87	1010.81	1010.74	1010.66	1010.57	1010.47	1010.36	1010.24	1010.10	1009.96	1009.81
GIRDER 2	1011.04	1010.98	1010.92	1010.85	1010.76	1010.66	1010.56	1010.44	1010.31	1010.17	1010.02
GIRDER 3	1011.15	1011.10	1011.04	1010.97	1010.89	1010.80	1010.70	1010.58	1010.46	1010.33	1010.19
GIRDER 4	1011.03	1010.98	1010.93	1010.87	1010.79	1010.70	1010.61	1010.50	1010.38	1010.26	1010.12
GIRDER 5	1010.90	1010.87	1010.82	1010.76	1010.69	1010.61	1010.52	1010.42	1010.30	1010.18	1010.05
GIRDER 6	1010.78	1010.75	1010.70	1010.65	1010.59	1010.51	1010.42	1010.33	1010.22	1010.10	1009.98
RT. E.O.D. *	1010.73	1010.70	1010.66	1010.60	1010.54	1010.47	1010.39	1010.29	1010.19	1010.07	1009.95

* LEFT EDGE OF DECK, RIGHT EDGE OF DECK

EDGE OF DECK (EOD) ELEVATIONS ARE CALCULATED ASSUMING THE CROSS SLOPE CONTINUES TO EDGE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

FRAMING PLAN

SHEET 16 OF 26
773

8

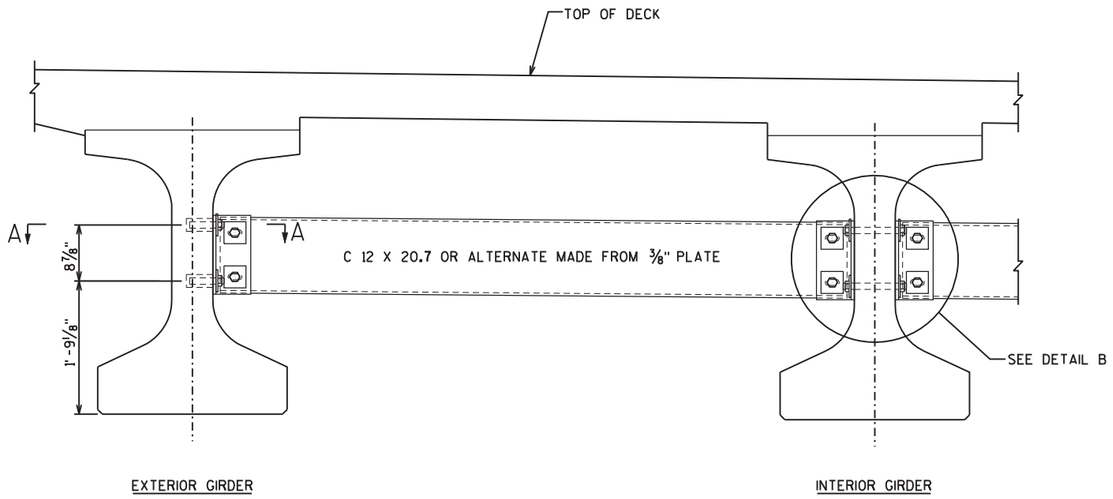
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081230_fp329.dgn PLOT DATE : 10/1/2013 9:31:22 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0000 ' / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



PART TRANSVERSE SECTION AT DIAPHRAGM

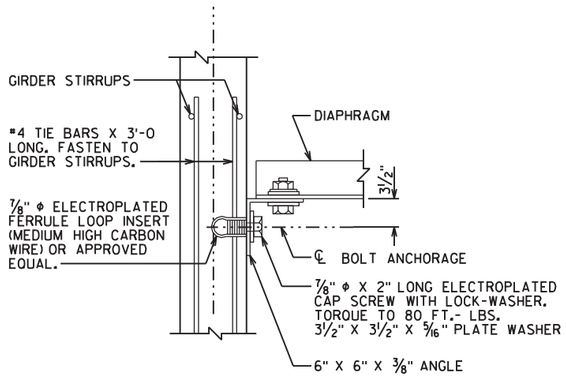
NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-67-329", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

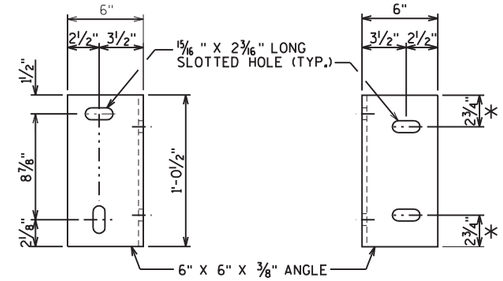
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

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 OVERSIZED 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.



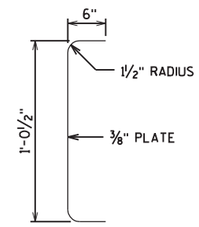
SECTION A-A

(FOR EXTERIOR ATTACHMENT)

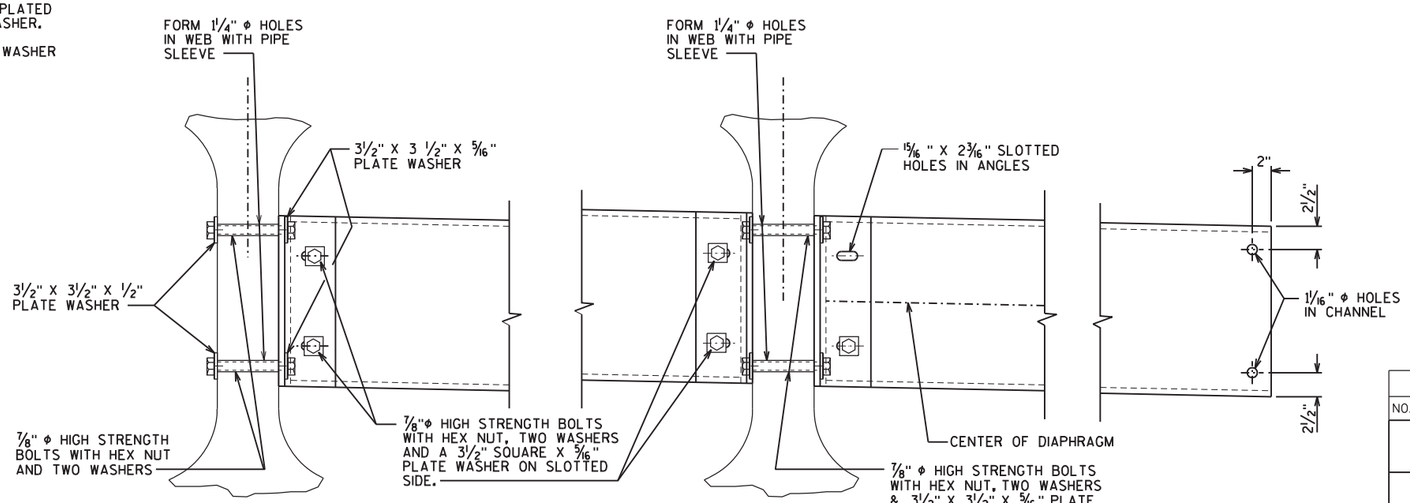


DIAPHRAGM SUPPORT

* 2 1/2" FOR ALTERNATE PLATE DIAPHRAGM



SECTION THRU ALTERNATE DIAPHRAGM



(FOR STAGGERED DIAPHRAGM)

(FOR CONTINUOUS LINE OF DIAPHRAGMS)

DETAIL B

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

STEEL DIAPHRAGM

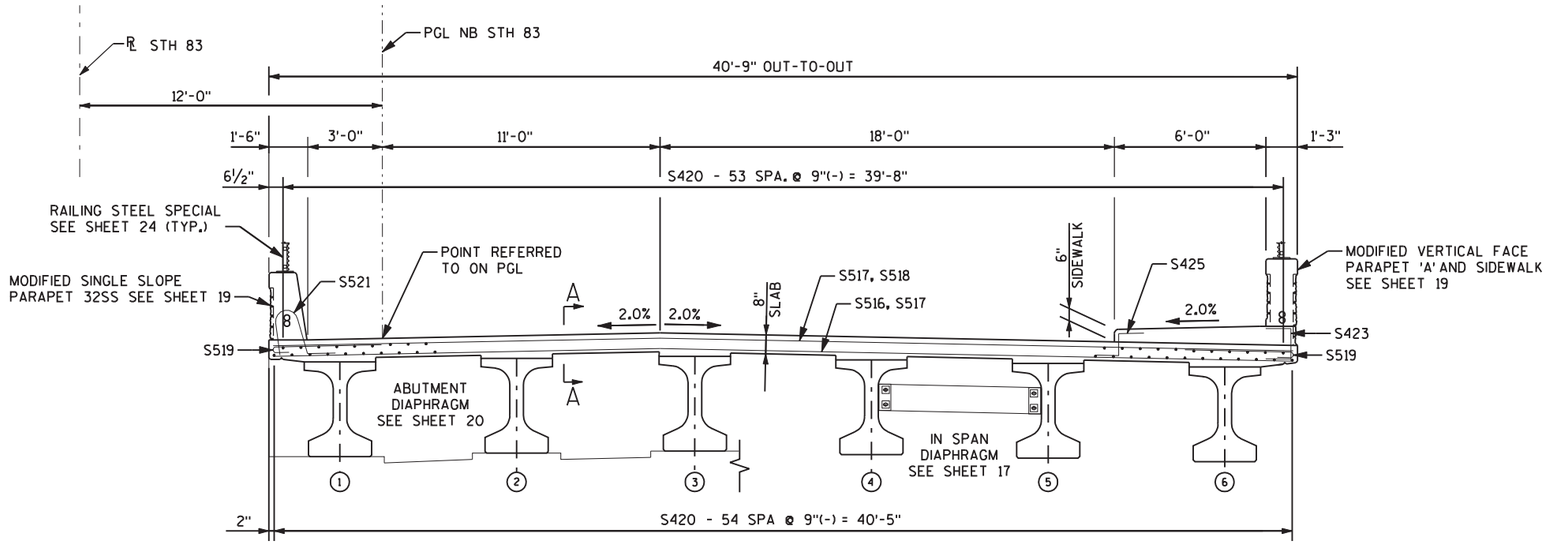
SHEET 17 OF 26
774

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081250_dp329.dgn PLOT DATE : 10/1/2013 9:31:22 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2:0 ' :" / IN.

FILE=
SCALE =

STATE PROJECT NUMBER
1330-18-70



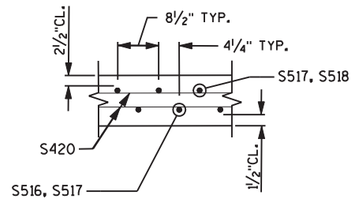
TYPICAL SECTION
(LOOKING NORTH)

NOTES

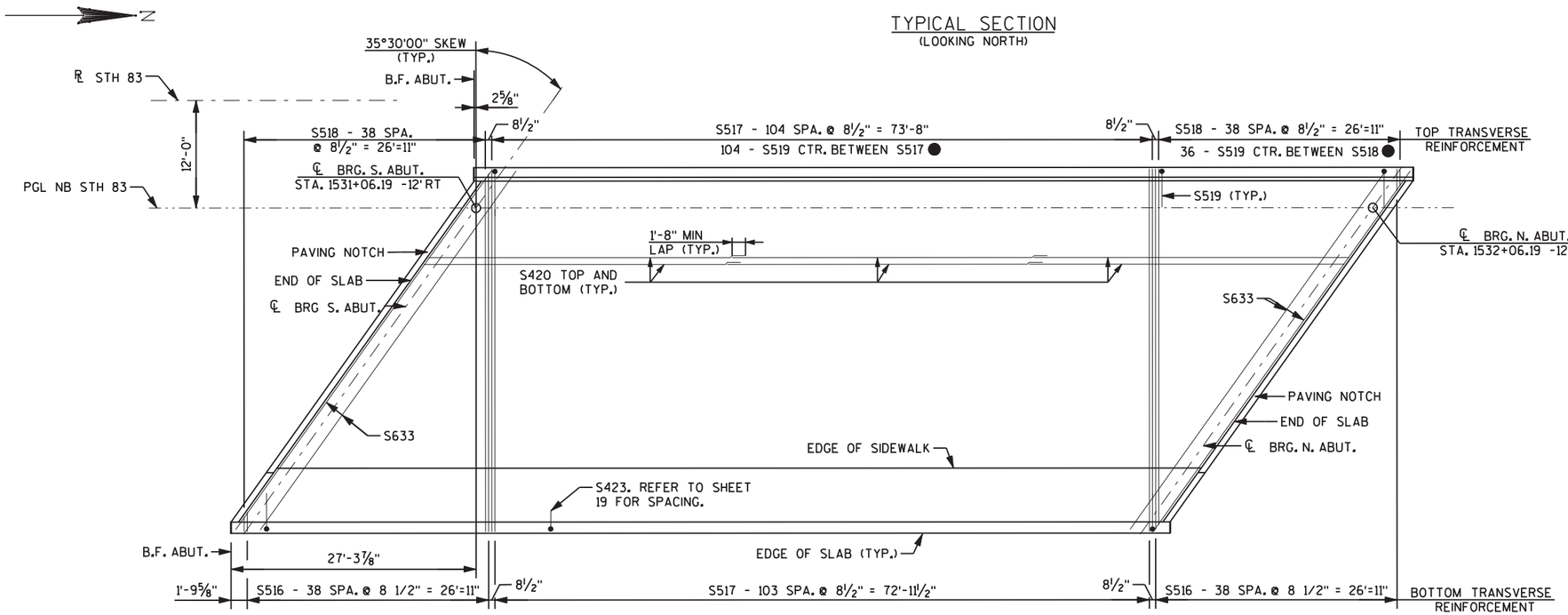
1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN THE SET IS PLACED AT THE CLEAR DISTANCE SHOWN FROM THE EDGE OF THE CONCRETE.

LEGEND

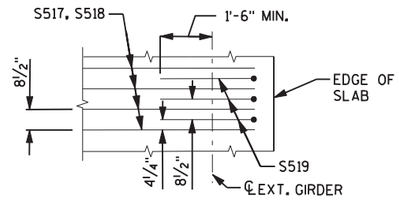
● S519 OPPOSITE HAND FOR EAST SIDE OF DECK.



SECTION A-A



SLAB PLAN



PLAN - DECK OVERHANG REINFORCEMENT DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

SUPERSTRUCTURE

SHEET 18 OF 26
775

8

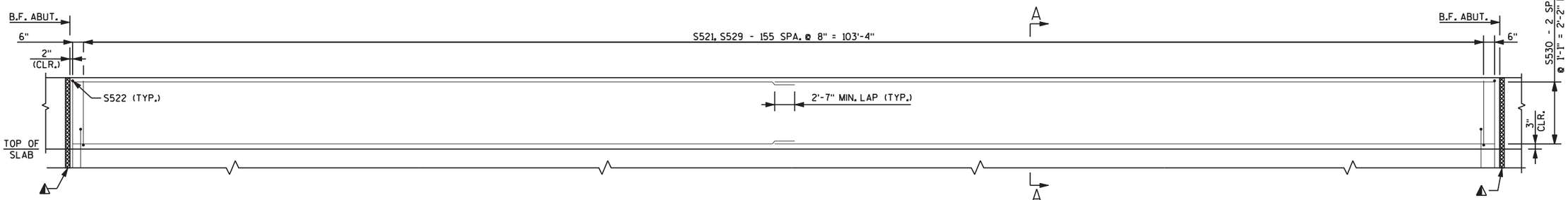
8

Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081300_ss329.dgn PLOT DATE : 10/1/2013 9:31:24 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 15.0077 sf / IN.

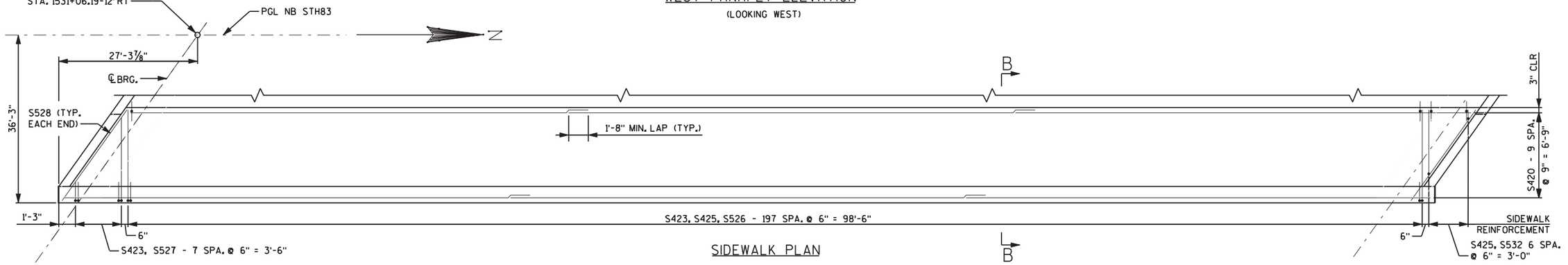
FILE=
SCALE =

STATE PROJECT NUMBER
1330-18-70

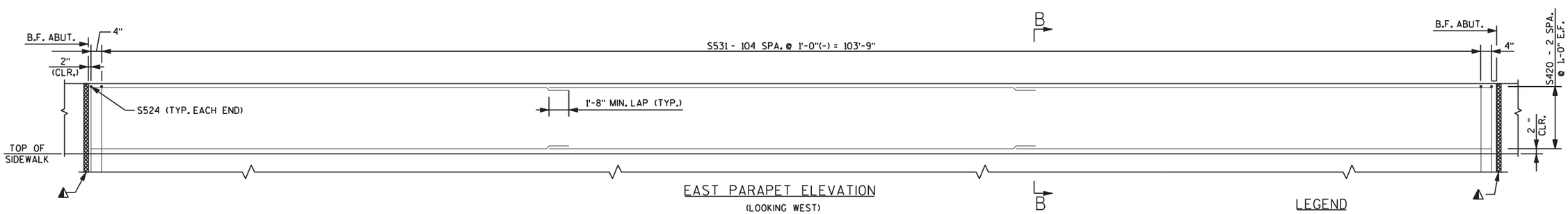


WEST PARAPET ELEVATION

(LOOKING WEST)

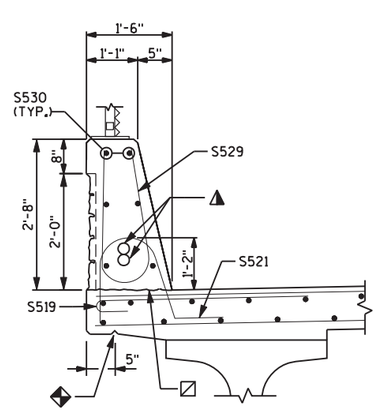


SIDEWALK PLAN

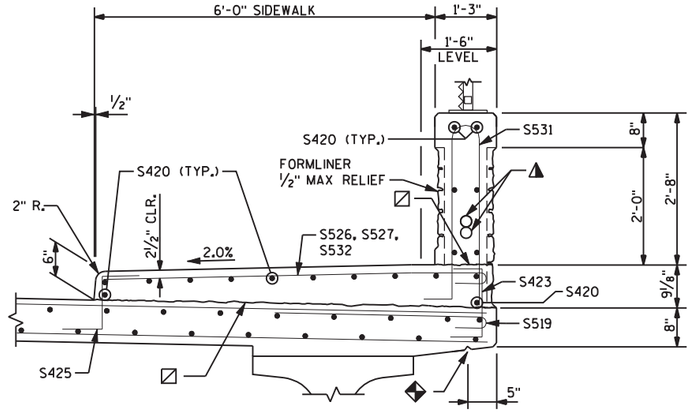


EAST PARAPET ELEVATION

(LOOKING WEST)



SECTION A-A - WEST PARAPET



SECTION B-B - SIDEWALK AND EAST PARAPET

NOTES

1. REINFORCEMENT SPACING DESIGNATED WITH A (-) SIGNIFIES TO SPACE THE REINFORCEMENT BARS AT THE DIMENSION SHOWN AND THE LAST BAR IN SET IS PLACED AT THE DISTANCE SHOWN FROM THE NEXT REINFORCEMENT BAR.
2. OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINFORCING THRU THE JOINT. MIN. JOINT SPACING OF 80'-0". DEFINE CONSTRUCTION JOINT WITH A ¾" 'V' GROOVE.

LEGEND

- ▲ ½" FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF CONCRETE PARAPET.
- ▨ CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH. FOR DECK POUR, MATCH BRIDGE X-SLOPE.
- ◆ ¾" V-GROOVE. EXTEND V-GROOVE TO 3" FROM FRONT FACE OF ABUTMENT DIAPHRAGM.
- ▲ CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY	JRM	PLANS CK'D.	RLD

SUPERSTRUCTURE DETAILS 1

SHEET 19 OF 26
776

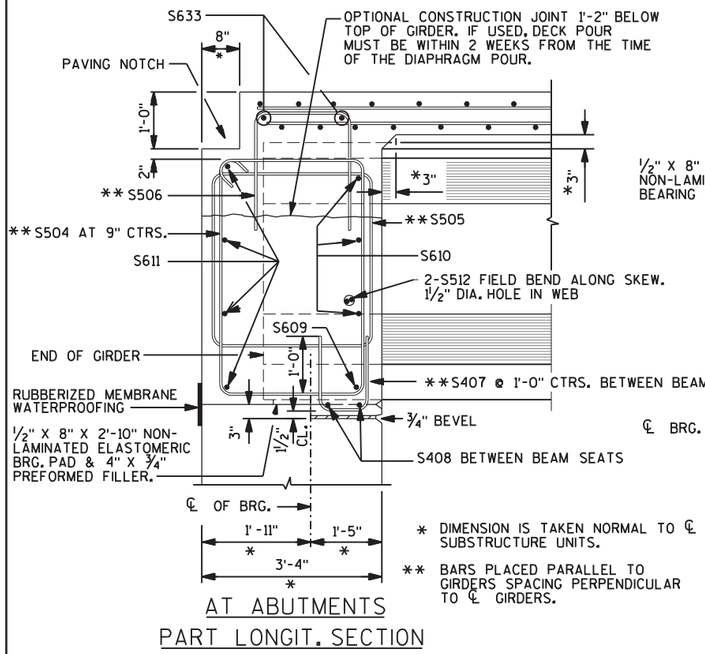
8

8

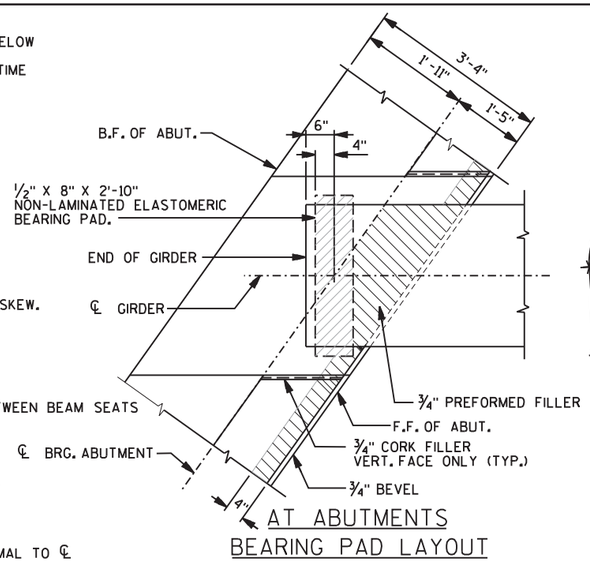
Pdf_Dw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081301_ss329.dgn PLOT DATE : 10/1/2013 9:31:25 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 sf / IN.

FILE=
SCALE =

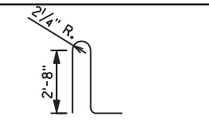


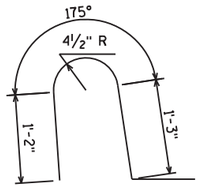
AT ABUTMENTS
PART LONGIT. SECTION



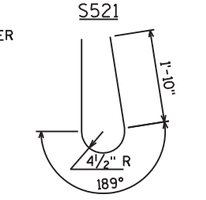
AT ABUTMENTS
BEARING PAD LAYOUT

S531

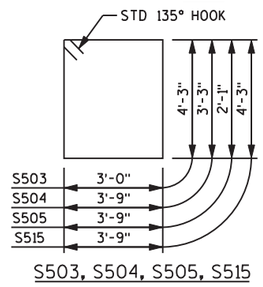




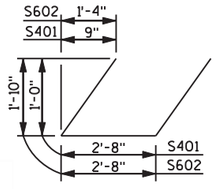
S521



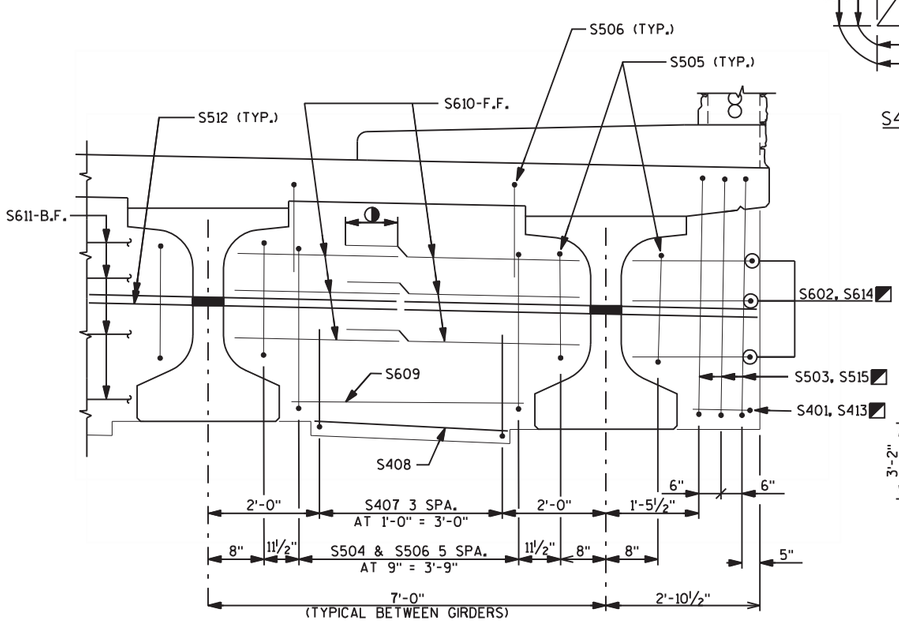
S529



S503, S504, S505, S515



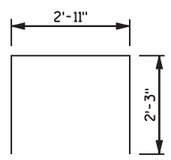
S401, S602



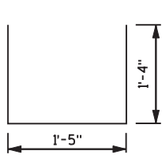
ABUTMENT DIAPHRAGM PARTIAL TRANSVERSE SECTION
(DIMENSIONS PERPENDICULAR TO ℄ GIRDER)

◑ 1'-10" MIN. LAP

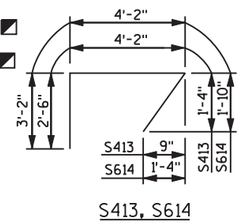
◩ S401, S602, S503 SOUTHEAST & NORTHWEST ABUTMENT ENDS.
S413, S614, S515 SOUTHWEST & NORTHEAST ABUTMENT ENDS.



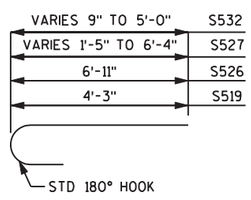
S506



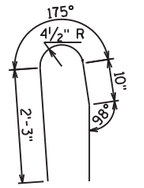
S407



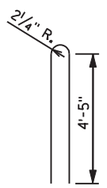
S413, S614



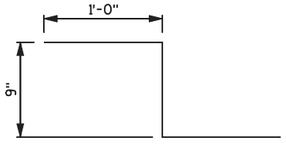
S519, S526, S527, S532



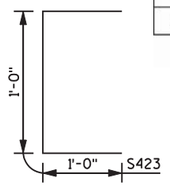
S522



S524



S425



S423

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
S401	X	2	5'-2"	▲		EXTERIOR ABUT. DIA. HORIZ. SE & NW CORNERS
S602	X	6	7'-2"	▲		EXTERIOR ABUT. DIA. HORIZ. SE & NW CORNERS
S503	X	6	15'-1"	▲		EXTERIOR ABUT. DIA. STIRRUP SE & NW CORNERS
S504	X	60	14'-7"	▲		INT. ABUT. DIA. STIRRUP
S505	X	24	12'-3"	▲		ABUT. DIA. STIRRUP AT WEB
S506	X	60	7'-5"	▲		INT. ABUT. DIA. TOP U BAR
S407	X	40	3'-11"	▲		INT. ABUT. DIA. BOTTOM U BAR
S408	X	20	3'-11"			INT. ABUT. DIA. F.F. HORIZ.
S609	X	10	5'-2"			INT. ABUT. DIA. F.F. HORIZ.
S610	X	60	4'-8"			INT. ABUT. DIA. F.F. HORIZ.
S611	X	12	48'-0"			ABUT. DIA. HORIZ. B.F.
S512	X	24	6'-0"			ABUT. DIA. THROUGH WEB
S413	X	2	8'-2"	▲		EXT. ABUT. DIA. HORIZ. SW & NE CORNERS
S614	X	6	9'-5"	▲		EXT. ABUT. DIA. HORIZ. SW & NE CORNERS
S515	X	6	16'-7"	▲		EXT. ABUT. DIA. STIRRUP SW & NE CORNERS
S516	X	78	21'-0"		Δ	SLAB TRANSVERSE BOTTOM
S517	X	209	40'-5"			SLAB TRANSVERSE TOP AND BOTTOM
S518	X	78	20'-6"		Δ	SLAB TRANSVERSE TOP
S519	X	280	4'-10"	▲		SLAB TRANSVERSE TOP DECK EDGE
S420	X	381	35'-11"			SLAB TOP / BOTTOM LONG., SIDEWALK LONG., EAST PARAPET HORIZ.
S521	X	156	4'-5"	▲		WEST PARAPET / SLAB TRANSVERSE
S522	X	2	5'-10"	▲		WEST PARAPET / SLAB TRANSVERSE AT PAVING NOTCH
S423	X	206	2'-10"	▲		EAST SIDEWALK / SLAB EDGE OF SLAB
S524	X	2	9'-5"	▲		EAST PARAPET / SLAB TRANSVERSE AT PAVING NOTCH
S425	X	206	2'-7"	▲		SIDEWALK / SLAB TRANSVERSE CURB
S526	X	198	7'-6"	▲		SIDEWALK TRANSVERSE
S527	X	8	4'-6"	▲	Δ	SIDEWALK TRANSVERSE
S528	X	2	8'-6"			SIDEWALK TRANSVERSE AT SIDEWALK END
S529	X	156	5'-0"	▲		WEST PARAPET VERTICAL
S530	X	12	53'-6"			WEST PARAPET HORIZONTAL
S531	X	105	6'-8"	▲		EAST PARAPET VERTICAL
S532	X	7	3'-6"	▲	Δ	SIDEWALK TRANSVERSE AT SIDEWALK END
S633	X	4	49'-6"			SLAB AT ABUTS.

Δ 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

MARK	NO. REQ'D	LENGTH
S516	2 SERIES OF 39	2'-2" TO 39'-11"
S518	2 SERIES OF 39	1'-8" TO 39'-5"
S527	1 SERIES OF 8	2'-0" TO 6'-11"
S532	1 SERIES OF 7	1'-4" TO 5'-7"

BUNDLE AND TAG EACH SERIES SEPARATELY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

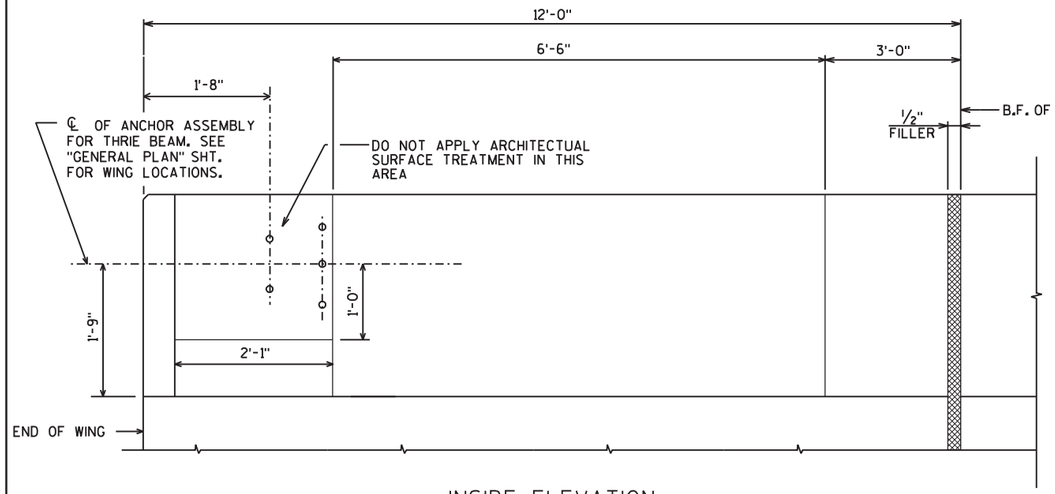
SUPERSTRUCTURE DETAILS 2

SHEET 20 OF 26
777

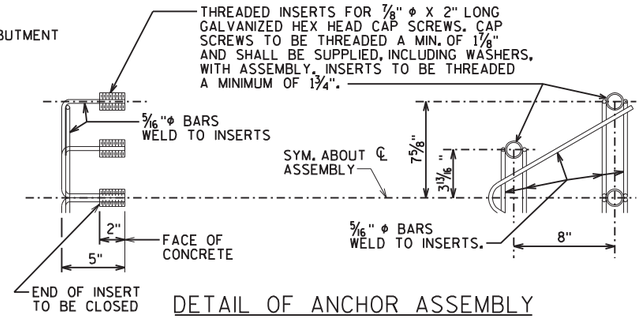
Pdf_bw_HS.plt
PEI_TextSub.tbl
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081302_ss329.dgn
PLOT DATE : 10/1/2013 9:31:28 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME :
PLOT SCALE : 2.0000 ' / IN.
FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



INSIDE ELEVATION



DETAIL OF ANCHOR ASSEMBLY

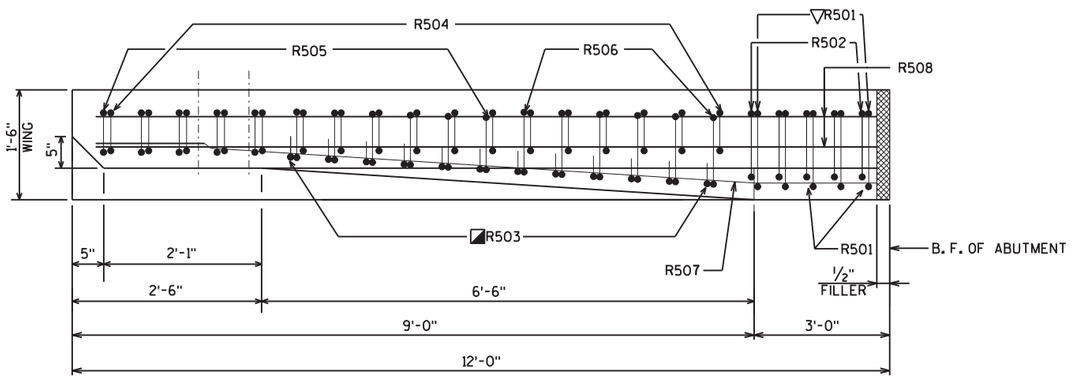
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.

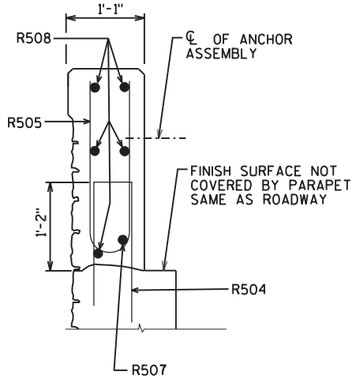
BILL OF BARS - WINGWALLS 1 & 3

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

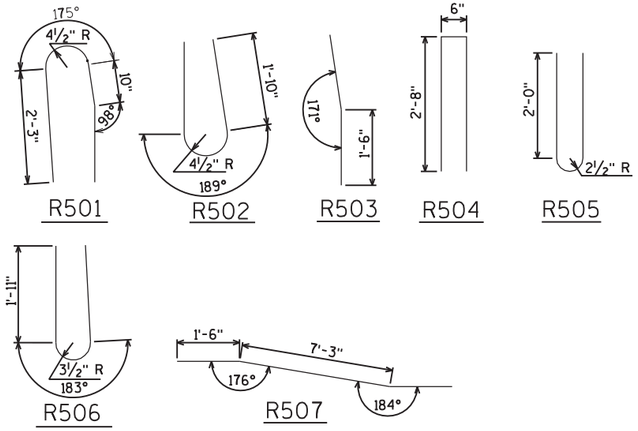
BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	LOCATION
R501	X	10	5'-10"	▲	PARAPET VERTICAL
R502	X	10	5'-0"	▲	PARAPET VERTICAL
R503	X	24	3'-0"	▲	PARAPET VERTICAL
R504	X	34	5'-7"	▲	PARAPET VERTICAL
R505	X	22	4'-9"	▲	PARAPET VERTICAL
R506	X	12	4'-10"	▲	PARAPET VERTICAL
R507	X	2	11'-5"	▲	PARAPET HORIZONTAL
R508	X	10	11'-7"		PARAPET HORIZONTAL



PLAN

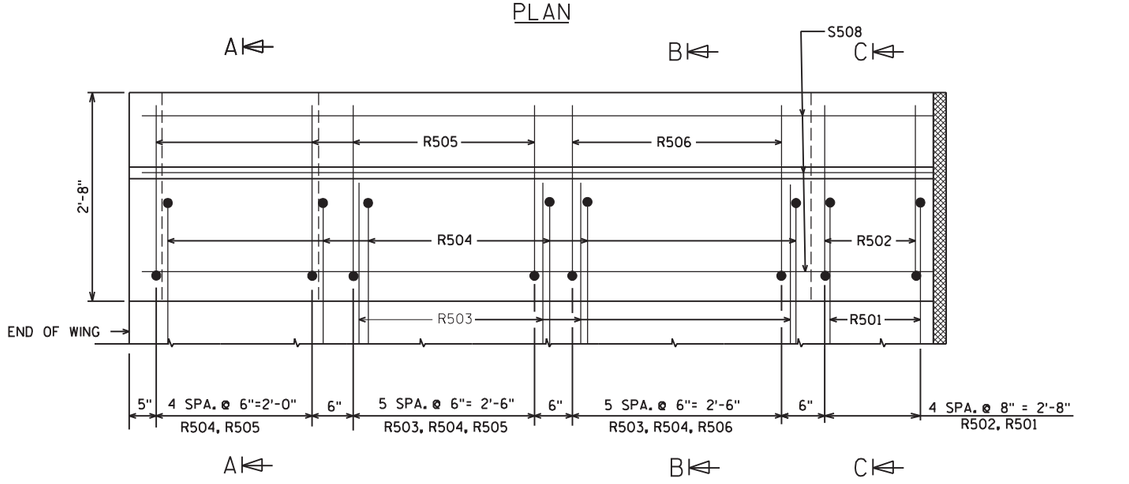


SECTION A

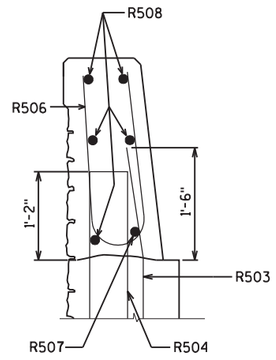


NOTES

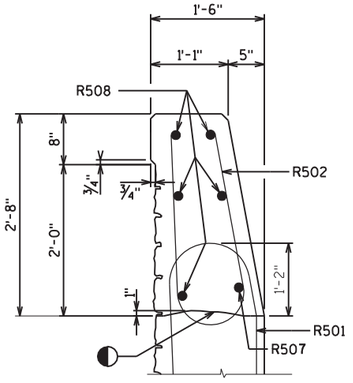
1. SEE SHEET 24 FOR POST ANCHORAGE SPACING.



OUTSIDE ELEVATION



SECTION B



SECTION C

◐ CONST. JOINT - STRIKE OFF AS SHOWN

◪ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 OR S503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

MODIFIED SINGLE SLOPE PARAPET 32SS

SHEET 21 OF 26
778

8

8

Pdf_Dw_HS.plt
PET_Text+Sub.tbl

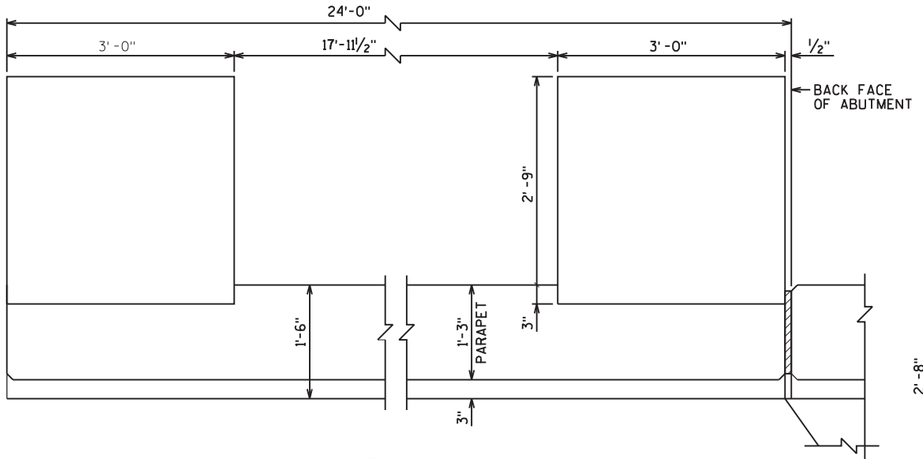
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081320_pt329.dgn PLOT DATE : 10/1/2013 9:31:30 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 sf / IN.

32SSDEC

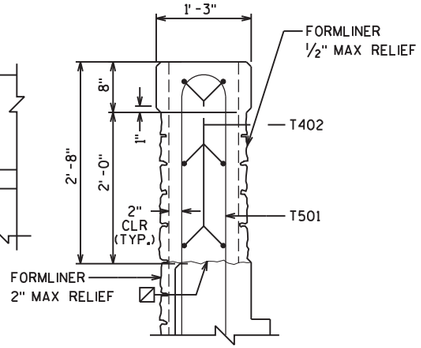
FILE =
SCALE =

STATE PROJECT NUMBER

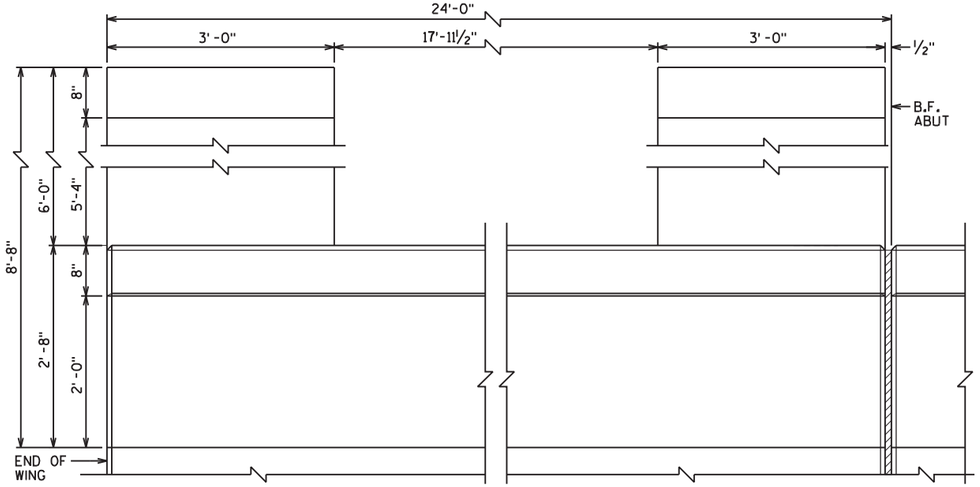
1330-18-70



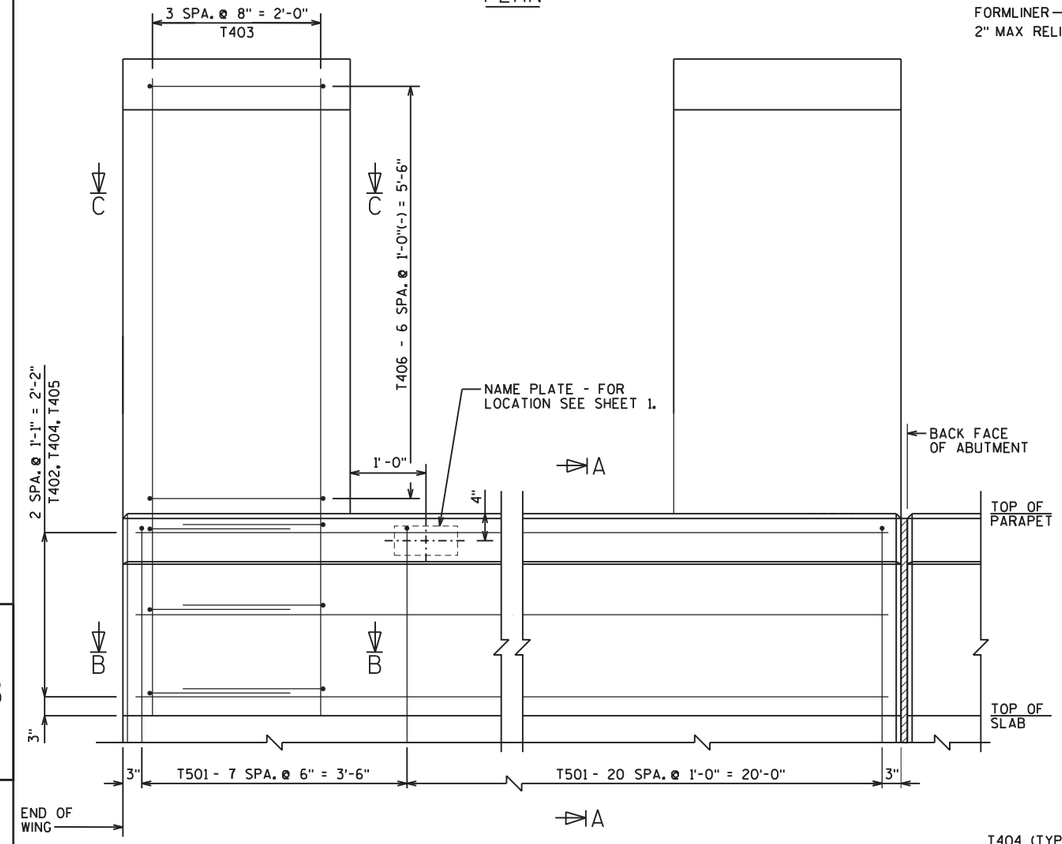
PLAN



SECTION A-A

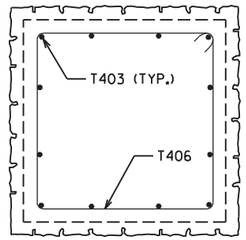


INSIDE ELEVATION

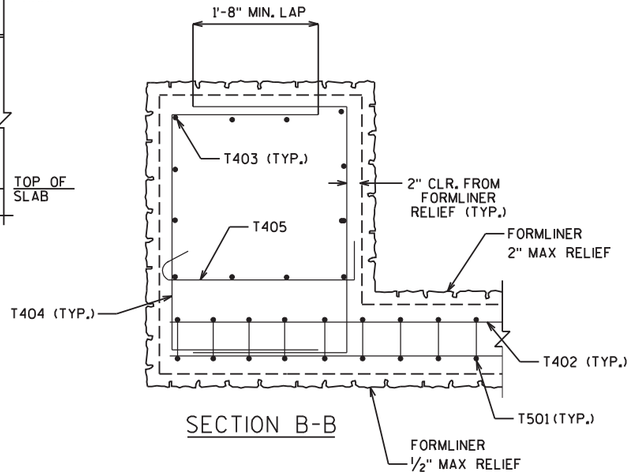


INSIDE ELEVATION

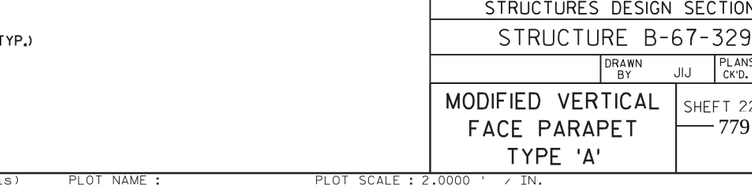
LEFT PILASTER REINFORCEMENT SHOWN, RIGHT PILASTER SIMILAR



SECTION C-C



SECTION B-B



BILL OF BARS - WINGWALLS 2 & 4

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COATED	NO. REQ'D	LENGTH	BENT	LOCATION
T501	X	56	9'-5"	▲	PARAPET VERTICAL
T402	X	12	23'-5"		PARAPET HORIZONTAL
T403	X	48	8'-6"		PILASTER VERTICAL
T404	X	24	7'-1"	▲	PILASTER TIES
T405	X	12	3'-0"	▲	PILASTER TIE
T406	X	28	9'-10"	▲	PILASTER STIRRUP

NOTES

1. SEE SHEET 24 FOR POST ANCHORAGE SPACING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JIJ | PLANS CK'D. RLD

MODIFIED VERTICAL FACE PARAPET TYPE 'A'

SHEET 22 OF 26
779

8

8

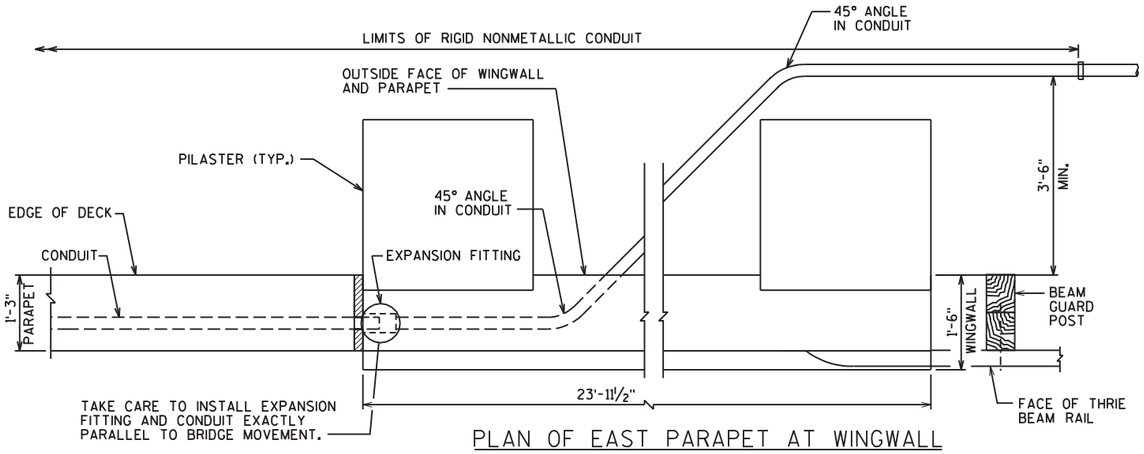
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081321_pt329.dgn PLOT DATE : 10/1/2013 9:31:32 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

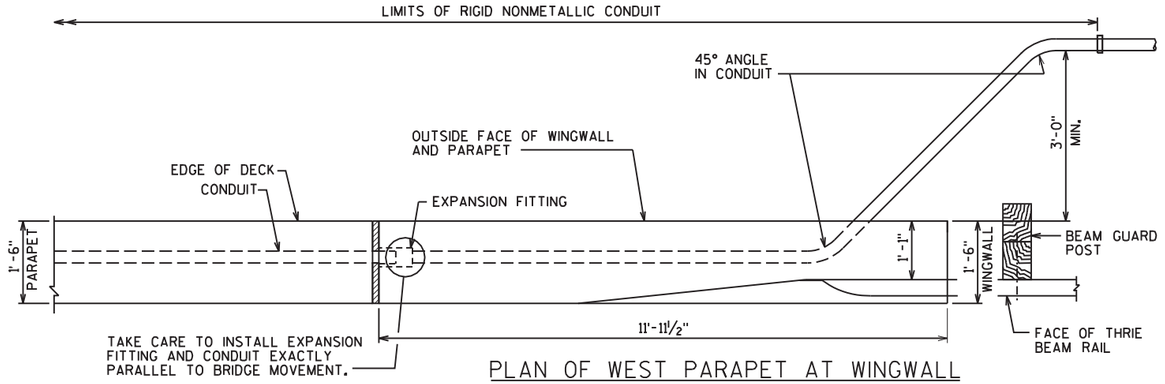
FILE= SCALE =

STATE PROJECT NUMBER

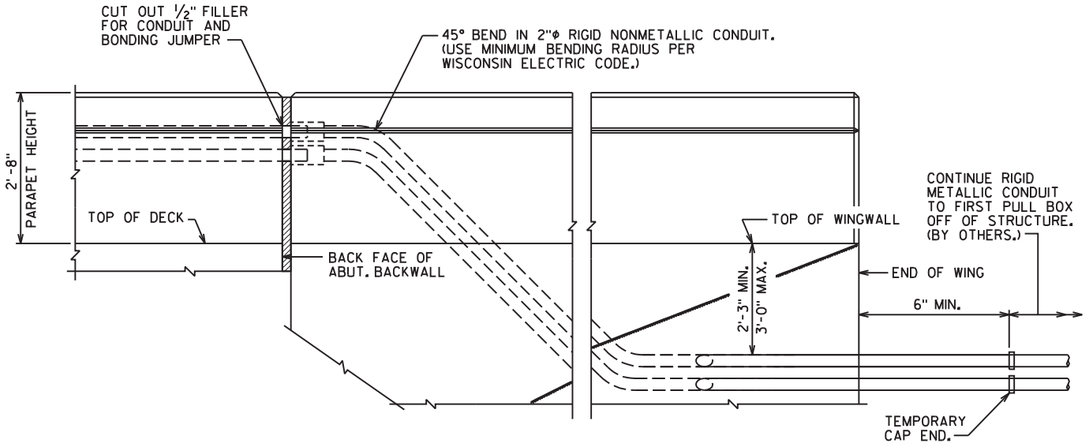
1330-18-70



PLAN OF EAST PARAPET AT WINGWALL

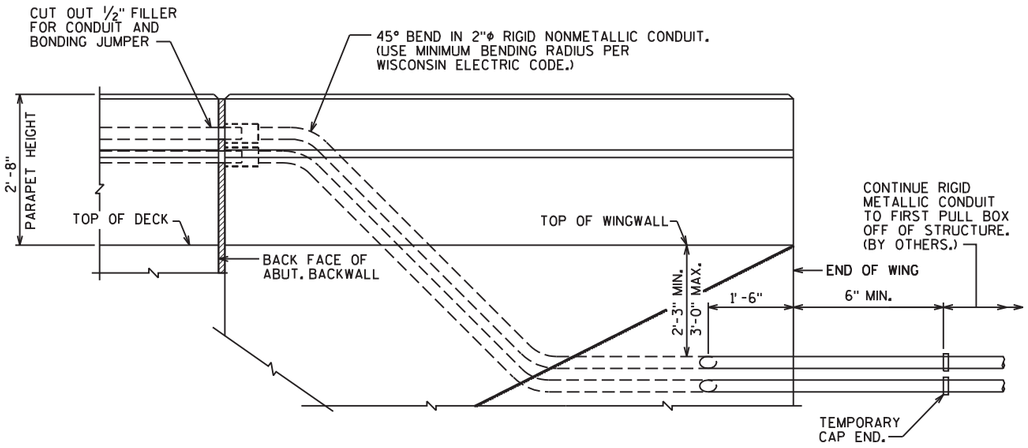


PLAN OF WEST PARAPET AT WINGWALL



OUTSIDE ELEVATION OF EAST PARAPET AT WINGWALL

(PILASTERS OMITTED FOR CLARITY)



OUTSIDE ELEVATION OF WEST PARAPET AT WINGWALL

NOTES

1. EXPANSION FITTING SHALL BE KRALOY TYPE OPEJ20 OR EQUIVALENT. COST SHALL BE INCIDENTAL TO THE BID ITEM "CONDUIT RIGID NONMETALLIC SCHEDULE 40 - 2-INCH.
2. EXPANSION FITTINGS, ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH".
3. WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. OR NRTL LISTED FOR ELECTRICAL USE SHALL BE USED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY PEW | PLANS CK'D. RLD

ELECTRICAL DETAILS

SHEET 23 OF 26
780

8

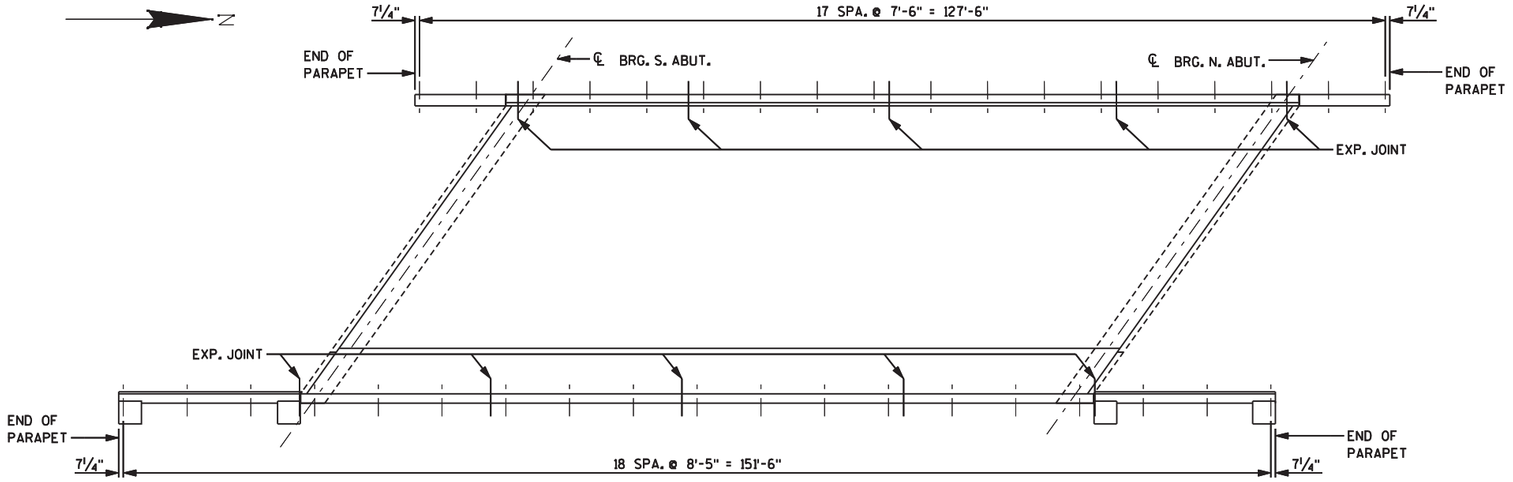
8

Pdf_bw_HS.plt
PEI_Text+Sub.tbl

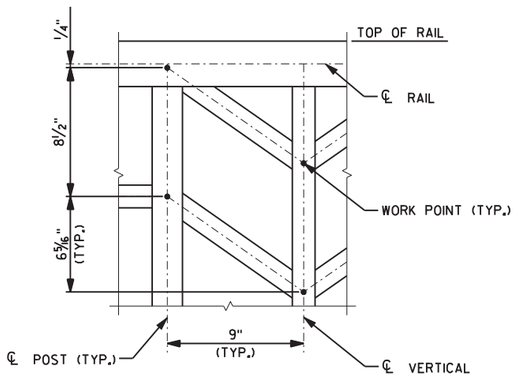
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081340_el329.dgn PLOT DATE : 10/1/2013 9:31:32 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 2.0000 ' / IN.

FILE=
SCALE =

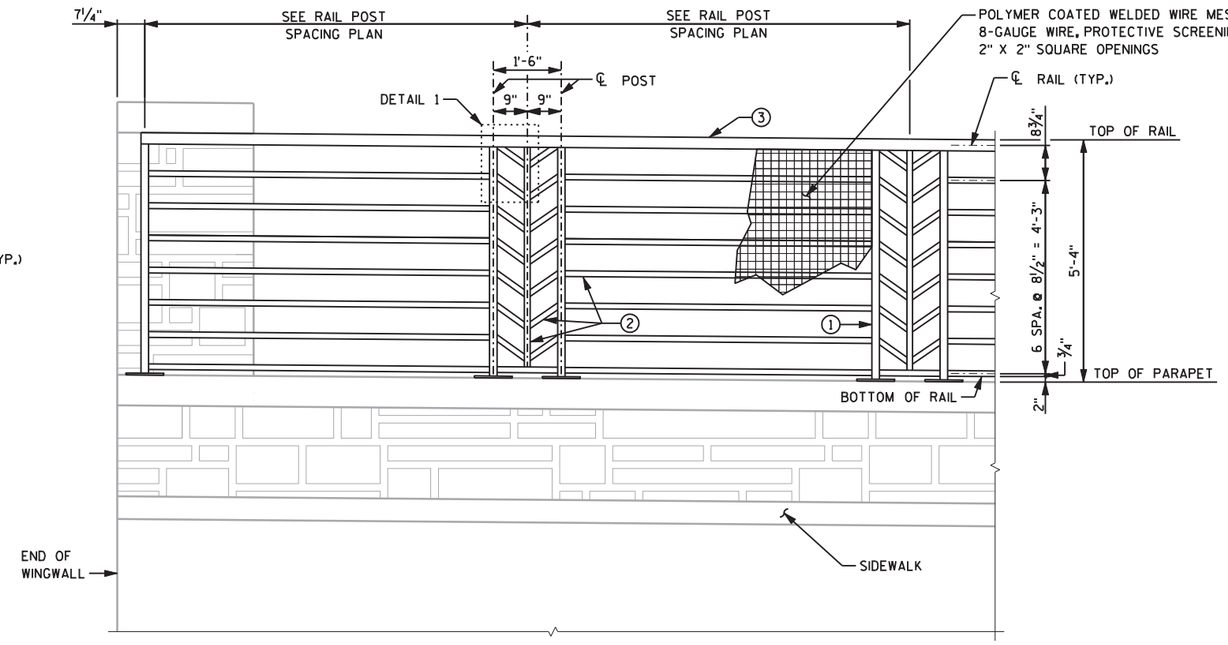
STATE PROJECT NUMBER
1330-18-70



RAIL POST SPACING PLAN



DETAIL 1



TYPICAL ELEVATION OF RAILING

NOTES

BID ITEM SHALL BE "STEEL RAILING DECORATIVE BRIDGE B-67-329" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

ALL FENCE COMPONENTS SHALL BE GALVANIZED STEEL

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILS AND POSTS TO BE ASTM A500, GRADE B. BASE PLATES AND SHIMS TO BE ASTM A709, GRADE 36.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.

ALL POST SPA. ARE TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.

SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN TRANSVERSE DIRECTION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING ALL STEEL RAILING POSTS AND STEEL TUBING SHALL BE GIVEN A #6 BLAST CLEANING BY SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.

THE COLOR OF THE COATING FOR THE RAILING SHALL BE FEDERAL COLOR FS 34066, COST INCLUDED UNDER "STEEL RAILING DECORATIVE BRIDGE B-67-329".

THE COLOR OF THE POLYMER-COATING FOR THE WELDED WIRE MESH SHALL BE FEDERAL COLOR FS 34066. COST INCLUDED UNDER STEEL RAILING DECORATIVE BRIDGE B-67-329."

COMPLETE ANY REQUIRED WELDING OF COMPONENTS BEFORE GALVANIZING.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING.

LEGEND

① STRUCTURAL TUBING 2" X 2" X 3/16". PLACE VERTICAL.

② STRUCTURAL TUBING 1½" X 1½" X 3/16".

③ STRUCTURAL TUBING 3" X 3" X 3/16".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

RAILING STEEL SPECIAL

SHEET 24 OF 26
781

8

8

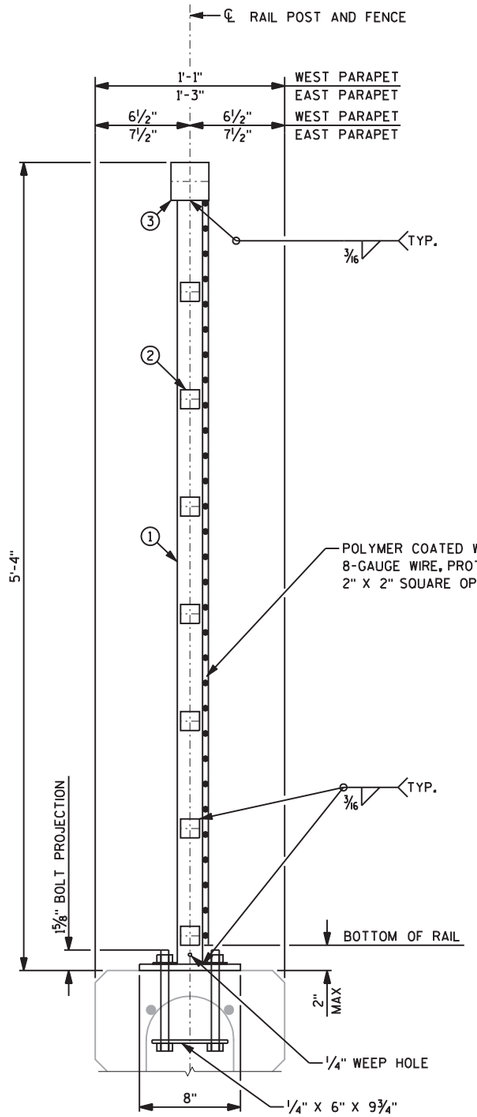
Pdf_Dw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081350_ra329.dgn PLOT DATE : 10/1/2013 9:31:34 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ' / IN.

FILE=
SCALE =

STATE PROJECT NUMBER

1330-18-70



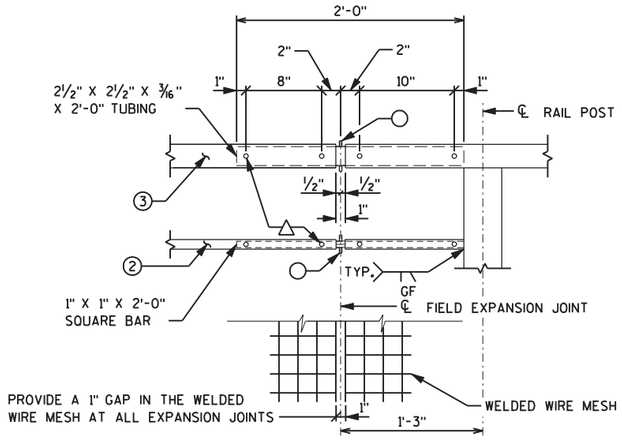
LEGEND

① STRUCTURAL TUBING 2" X 2" X 3/16". PLACE VERTICAL.

② STRUCTURAL TUBING 1½" X 1½" X 3/16".

③ STRUCTURAL TUBING 3" X 3" X 3/16".

SECTION THRU RAILING



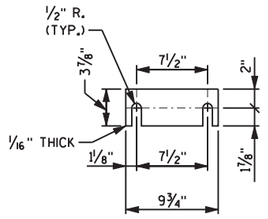
LEGEND

○ 5/16" × 3/8" WELDED STUDS

△ WELD BEAD ON EACH SIDE OF TUBE. GRIND BEADS SO THAT SLEEVE FITS FREELY INSIDE THE TUBE.

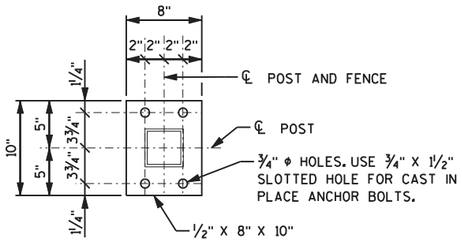
RAILING EXPANSION JOINT DETAIL

(PROTECTIVE SCREENING OMITTED FOR CLARITY)

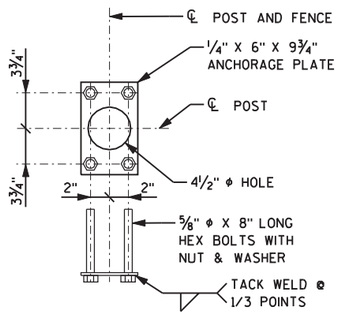


SHIM PLATE DETAILS

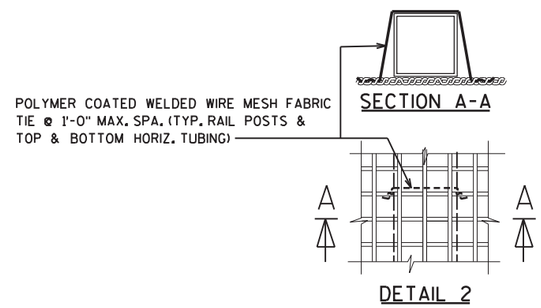
TWO SHIMS OF EACH SIZE REQUIRED PER POST



BASE PLATE



ANCHORAGE DETAIL



DETAIL 2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY JRM | PLANS CK'D. RLD

RAILING STEEL SPECIAL DETAILS

SHEET 25 OF 26
782

8

8

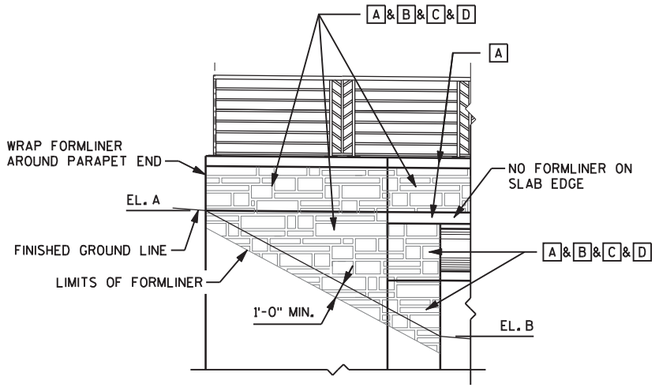
Pdf_bw_HS.plt
PEI_Text+Sub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081351_ra329.dgn PLOT DATE : 10/1/2013 9:31:36 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ' / IN.

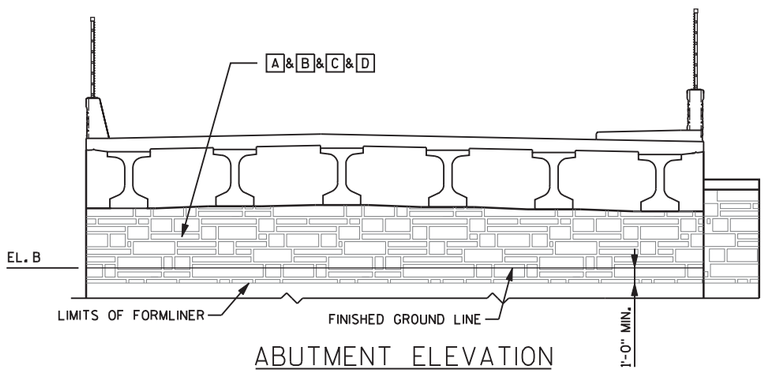
FILE=
SCALE =

STATE PROJECT NUMBER

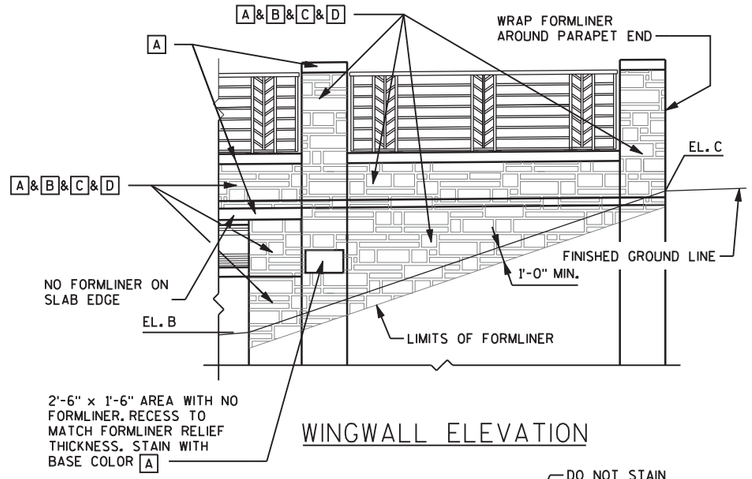
1330-18-70



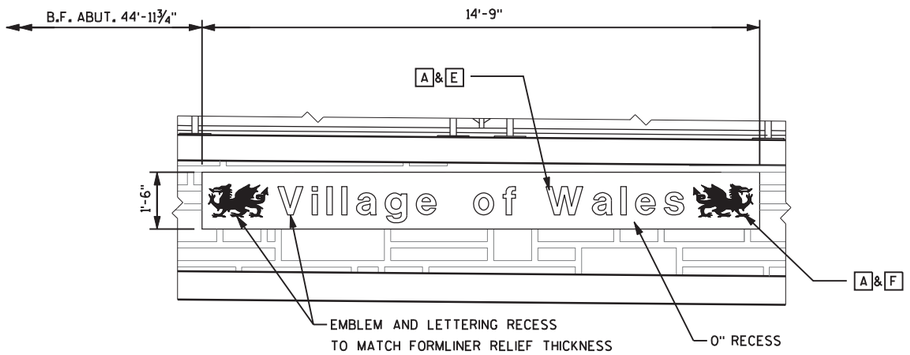
WINGWALL ELEVATION



ABUTMENT ELEVATION



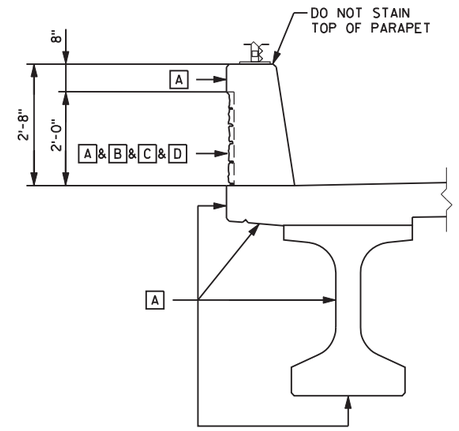
WINGWALL ELEVATION



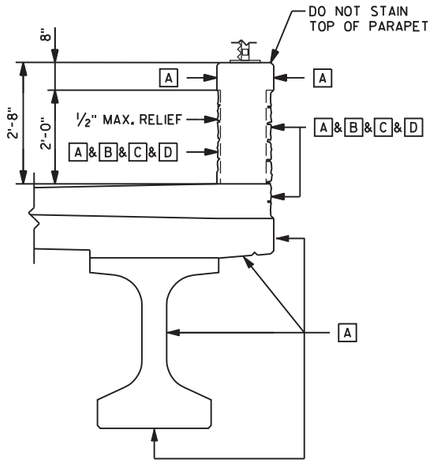
NOTES

1. LETTERING SHALL BE HELVETICA. 9" UPPER CASE AND 7" LOWER CASE
2. LETTERING AND EMBLEM ARE ONLY ON OUTSIDE FACE OF RIGHT PARAPET.
3. EMBLEM MAXIMUM HEIGHT IS 11" AND MAXIMUM LENGTH IS 1'-7". CONTACT THE VILLAGE OF WALES FOR EMBLEM GEOMETRY.

INDENTED TEXT



WEST PARAPET SECTION



EAST PARAPET SECTION

CONCRETE STAINING SCHEDULE

MARK	COLOR	NOTES
A	BASE COLOR	FEDERAL COLOR FS 30227
B	ACCENT COLOR #1	FEDERAL COLOR FS 30122 - 25% OF "ASHLAR" STONES
C	ACCENT COLOR #2	FEDERAL COLOR FS 30140 - 60% OF "ASHLAR" STONES
D	ACCENT COLOR #3	FEDERAL COLOR FS 30111 - 15% OF "ASHLAR" STONES
E	LETTER COLOR	FEDERAL COLOR FS 37040
F	EMBLEM COLOR	FEDERAL COLOR FS 31120

"AHSLAR" STONE SURFACES SHALL BE STAINED IN A RANDOMLY MIXED COLOR ARRANGEMENT ACCORDING TO THE PERCENTAGES ABOVE. LEAVE ALL PREVIOUSLY STAINED RECESSED "MORTAR" JOINTS AS THE BASE COLOR.

THE FINAL COLOR OF THE CONCRETE FOLLOWING APPLICATION OF THE STAIN SYSTEM SHALL MATCH THE FEDERAL STANDARD COLOR SYSTEM LISTED.

ABUTMENT AND WINGWALL NOTES

1. FORMLINER PATTERN SHALL BE RUSTIC ASHLAR WITH A MAXIMUM RELIEF OF 2" UNLESS NOTED OTHERWISE.
2. FORMLINER COURSING ON ABUTMENTS AND WINGWALLS SHALL BE LEVEL.
3. THE FORMLINER COURSING ON THE WINGS SHALL BE VERTICALLY ALIGNED WITH THE FORMLINER COURSING ON THE FRONT OF THE ABUTMENT.
4. THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.
5. WRAP AROUND/MATCH FORMLINER PATTERN AT CORNERS.
6. CONCRETE STAINING OF THE SURFACES THAT DO NOT RECEIVE ARCHITECTUAL SURFACE TREATMENT IS PAID FOR UNDER THE BID ITEM "CONCRETE STAINING B-67-329"

PARAPET NOTES

1. FORMLINER PATTERN SHALL BE RUSTIC ASHLAR WITH A MAXIMUM RELIEF OF 2" UNLESS NOTED OTHERWISE.
2. FORMLINER COURSING ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.
3. CONCRETE STAINING OF THE SURFACES THAT DO NOT RECEIVE ARCHITECTUAL SURFACE TREATMENT IS PAID FOR UNDER THE BID ITEM "CONCRETE STAINING B-67-329"
4. DO NOT APPLY ARCHITECTUAL SURFACE TREATMENT IN THE AREA FOR THE THRIE BEAM GUARD RAIL ATTACHMENT. REFER TO SHEET 21.

FINISHED GRADE ELEVATIONS

ELEVATION	SOUTH ABUTMENT	NORTH ABUTMENT
A	1010.82	1009.50
B	1002.00	1001.00
C	1011.00	1008.50

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-67-329

DRAWN BY PEW | PLANS CK'D. RLD

AESTHETIC DETAILS

SHEET 26 OF 26
783

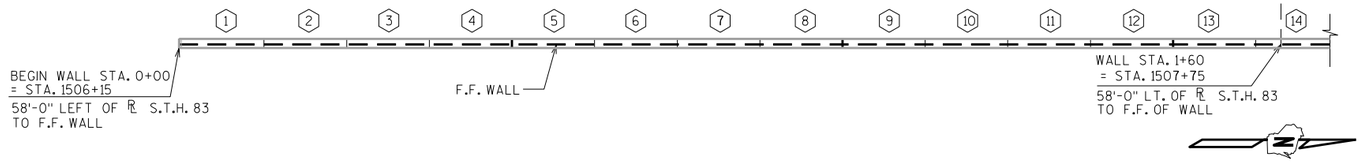
8

8

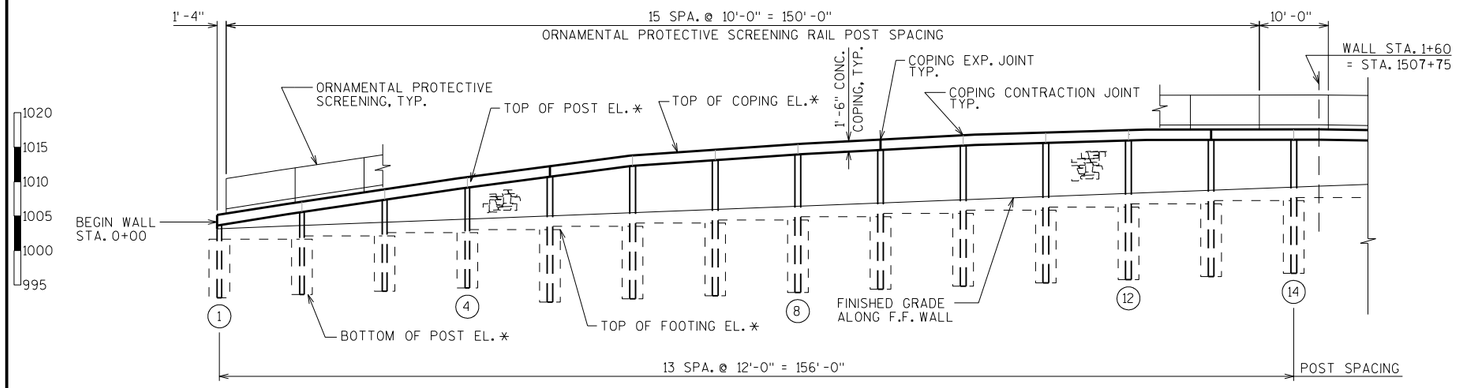
Pdf_bw_HS.plt
PEI_TextSub.tbl

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\sheets\p_081400_ae329.dgn PLOT DATE : 10/1/2013 9:31:37 AM PLOT BY : Paul Wirth (Rdwy_Wis) PLOT NAME : PLOT SCALE : 10.0001 ft / IN.

FILE=
SCALE =



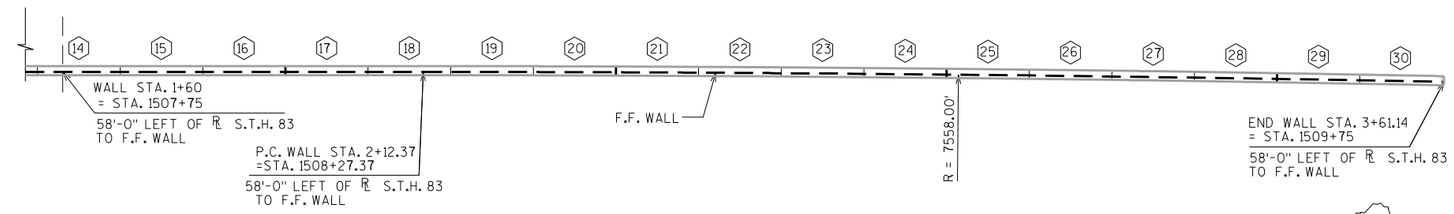
PLAN - WALL STA. 0+00 TO 1+60



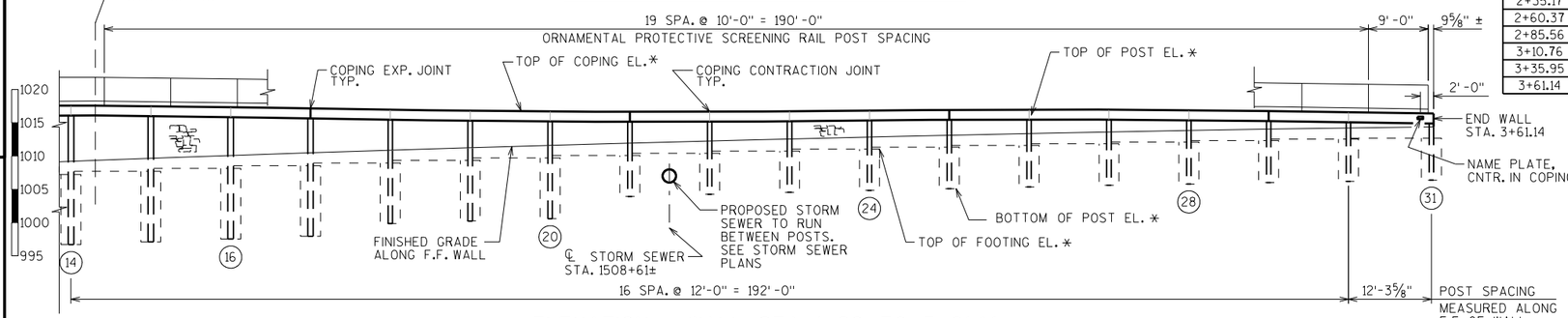
ELEVATION - WALL STA. 0+00 TO 1+60

LOOKING AT F.F. WALL

* SEE 'WALL DATA TABLE' SHEET.



PLAN - WALL STA. 1+60 TO 3+61.14



ELEVATION - WALL STA. 1+60 TO 3+61.14

LOOKING AT F.F. WALL

* SEE 'WALL DATA TABLE' SHEET.

DESIGN DATA

ULTIMATE DESIGN STRESSES

- CONCRETE MASONRY-PRECAST PANELS — f'c = 4,000 psi
- CONCRETE MASONRY-ALL OTHER — f'c = 3,500 psi
- BAR STEEL REINFORCEMENT, GRADE 60 — fy=60,000 psi
- HIGH STRENGTH STRUCTURAL STEEL — fy=50,000 psi

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINF. SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE THE EXISTING GROUND LINE.

AT THE BACKFACE OF WALL, ALL VOLUME WHICH CANNOT BE IN PLACE BEFORE WALL CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE COLOR OF THE FINISH EPOXY TOP COAT OF THE STEEL POSTS SHALL BE BROWN (FEDERAL COLOR NO. 20059 OR A SIMILAR COLOR AS APPROVED BY THE ENGINEER.) AND THE TOP COAT SHALL EXTEND FROM THE TOP OF POST TO 1'-0" BELOW THE TOP OF FOOTING. PAINTING IS TO BE COMPLETED PRIOR TO SETTING POSTS.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS R-67-102	LS	1
210.0100	BACKFILL STRUCTURE	CY	210
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	96
505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	1,805
506.0605	STRUCTURAL STEEL HS	LB	28,070
513.4090	RAILING TUBULAR SCREENING R-67-102	LS	1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	2
517.0600	PAINTING EPOXY SYSTEM R-67-102	LS	1
517.1010.S	CONCRETE STAINING R-67-102	SF	695
517.1015.S	CONCRETE STAINING MULTI-COLOR R-67-102	SF	1,965
517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-67-102	SF	1,965
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	385
SPV.0090	FOUNDATION DRILLING 36-INCH DIAMETER	LF	290
SPV.0165	PRECAST PANELS FOR POST AND PANEL WALLS	SF	2,315
	NON-BID ITEMS		
	FILLER	SIZE	3/4"
	EXPANDED POLYSTYRENE	SIZE	1"

WALL ELEVATION TABLE

WALL STA.	℄ STH 83 STA.	TOP OF WALL EL.	FINISHED GRADE
0+00	1506+15	1005.15	1003.15
0+10	1506+25	1006.75	1003.54
0+35	1506+50	1010.46	1004.51
0+60	1506+75	1013.76	1005.48
0+85	1507+00	1015.50	1006.45
1+10	1507+25	1016.83	1007.42
1+35	1507+50	1017.55	1008.39
1+60	1507+75	1017.58	1009.35
1+85	1508+00	1017.26	1010.21
2+10	1508+25	1016.86	1011.05
2+35.17	1508+50	1016.65	1011.79
2+60.37	1508+75	1016.68	1012.46
2+85.56	1509+00	1016.92	1013.05
3+10.76	1509+25	1016.96	1013.57
3+35.95	1509+50	1016.74	1014.03
3+61.14	1509+75	1016.38	1014.38

℄ CURVE DATA

P.I. = STA. 1509+42.63
Δ = 1°45'39"
D = 0°45'39"
T = 115.26
L = 203.50'
R = 7500.00
P.C. = STA. 1508+27.37
P.T. = STA. 1510+57.87

LEGEND

- ⬡ INDICATES PANEL NO.
- ◯ INDICATES POST NO.

LIST OF DRAWINGS

1. PLAN & ELEVATION
2. WALL DETAILS
3. WALL DATA TABLE
4. ORNAMENTAL PROTECTIVE SCREENING
5. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:
CHRIS DOLL (608) 266-3229
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES
ACCEPTED William C. Dreher LLS — 8/16/13
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STATE PROJECT NUMBER
1330-18-70

STRUCTURE R-67-102

POST AND PANEL WALL ALONG S.T.H. 83

COUNTY WAUKESHA | TOWN/CITY/VILLAGE WALES

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	CAD	DESIGN CK'D.	ARC	DRAWN BY	CAD	PLANS CK'D.	ARC

PLAN & ELEVATION

SHEET 1 OF 5

784

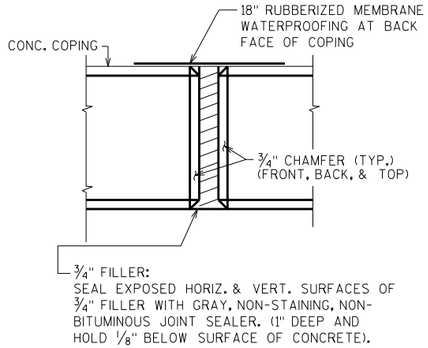
I.D. 1330-18-00A

DATE: APRIL 2013

SCALE =

STATE PROJECT NUMBER

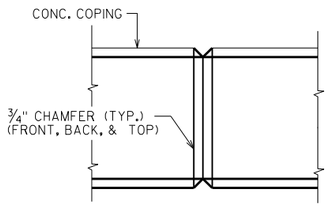
1330-18-70



COPING EXPANSION JOINT

DO NOT RUN ANY BAR STEEL THRU JOINTS

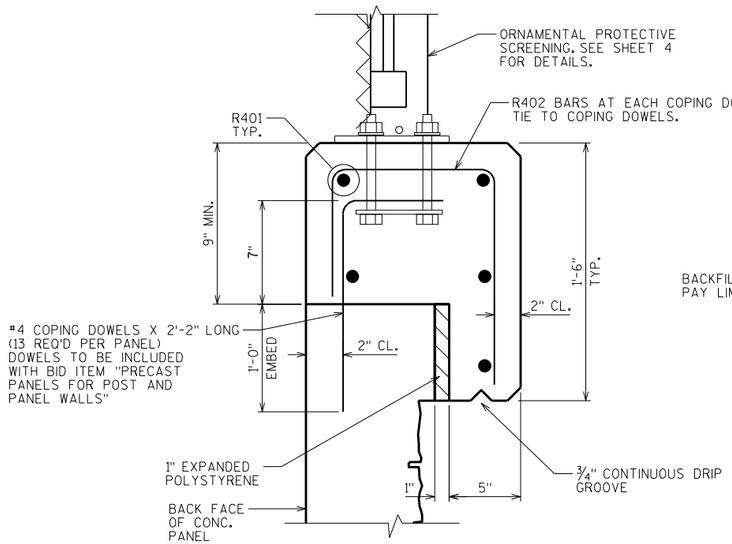
MAXIMUM SPACING OF JOINT = 48'-0"
CENTER FILLER AND JOINT AT ℄ OF POST
PLACE JOINTS VERTICAL



COPING CONTRACTION JOINT

DO NOT RUN ANY BAR STEEL THRU JOINTS

MAXIMUM SPACING OF JOINT =12'-0"
CENTER JOINTS AT ℄ OF POST
PLACE JOINTS VERTICAL



CAST-IN-PLACE CONCRETE COPING DETAIL

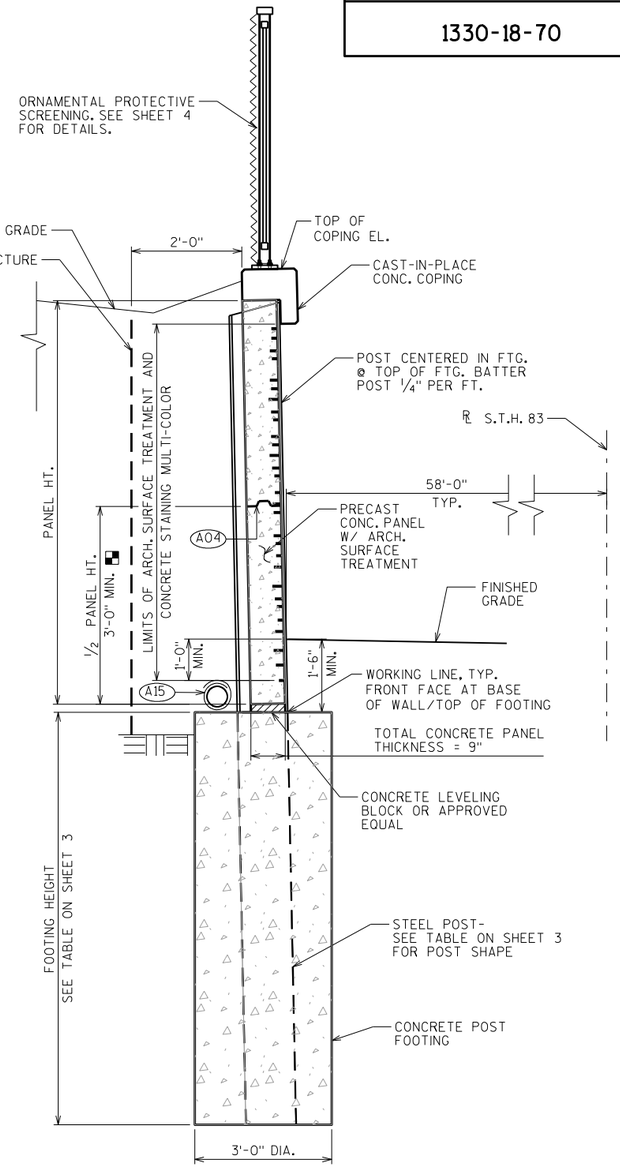
ALL BAR STEEL REINFORCEMENT SHALL BE EPOXY COATED

COPING BILL OF BARS

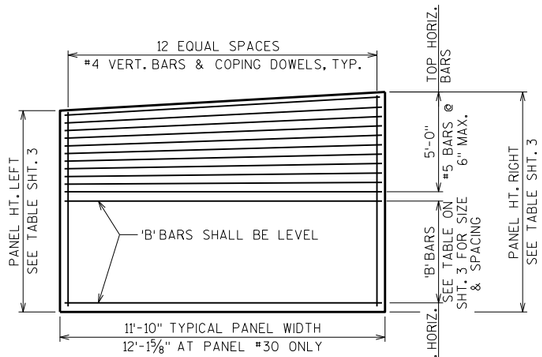
NOTE: THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
R401	X	150	11'-6"			COPING HORIZONTAL
R402	X	390	2'-6"	X		COPING VERTICAL

R402



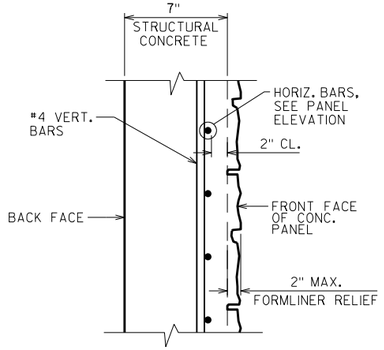
SECTION THRU WALL



TYPICAL PANEL ELEVATION

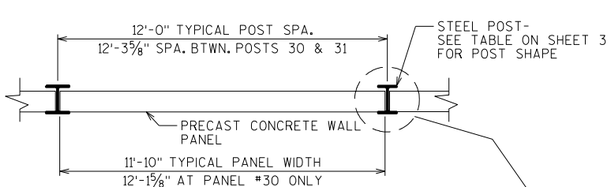
(LOOKING AT FRONT FACE)

ALL BAR STEEL REINFORCEMENT SHALL BE EPOXY COATED

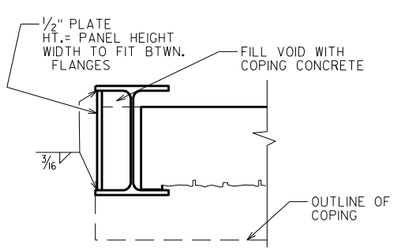


TYPICAL SECTION THRU PANEL

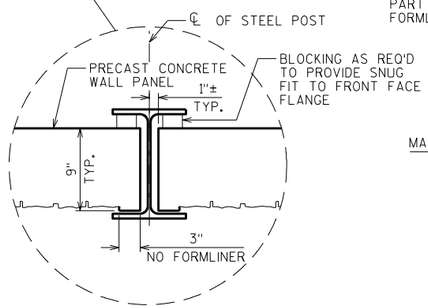
ALL BAR STEEL REINFORCEMENT SHALL BE EPOXY COATED



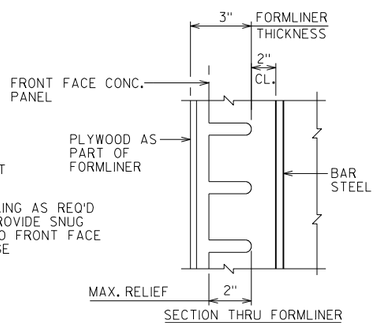
PLAN OF PANEL

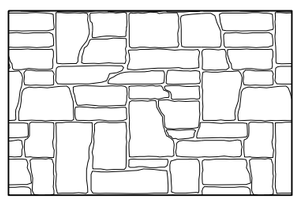


POST DETAIL AT BEGIN/END OF WALL



PANEL DETAIL AT POST





RUSTIC ASHLAR
SIZE = 8" TO 32"
RELIEF = 2" MAX.

FORMLINER DETAILS

NOTES:

FORMLINER COURSING ON WALL SHALL BE LEVEL

THE FORMLINER COURSING SHALL BE VERTICALLY ALIGNED.

THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS WALL CONSTRUCTION JOINTS.

NOTES

▪ PANELS HEIGHTS OF 6'-0" OR GREATER MAY BE FABRICATED FULL PANEL HEIGHT OR HALF PANEL HEIGHT. PANELS SHALL BE CLEARLY LABELED FOR CORRECT LOCATION AND ORIENTATION.

(A04) OPTIONAL HORIZ. CONSTRUCTION JOINT: FORMED BY BEVELED 2 x 4. JOINT SHALL BE LEVEL. FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS THE JOINT.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED. SEE SHT. 3 FOR RODENT SHIELD DETAIL.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-102

DRAWN BY CAD | PLANS CK'D. ARC

WALL DETAILS

SHEET 2

785

8

FILE= 02-R102WALLDET.DGN
SCALE = 10.666

STATE PROJECT NUMBER

1330-18-70

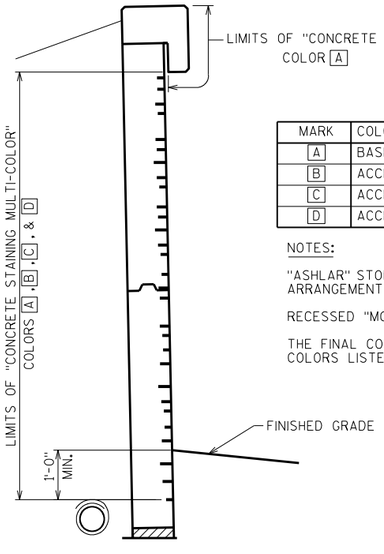
POST NUMBER	POST ℄ STATION	POST WALL STATION	POST SHAPE	POST LENGTH	TOP OF POST EL.	BOTTOM OF POST EL.	TOP OF FOOTING EL.	FOOTING HEIGHT	TOP OF COPING EL.
1	1506+15.42	0+00.42	W12X53	11.22	1004.38	993.17	1001.58	8.42	1005.22
2	1506+27.42	0+12.42	W12X53	12.64	1006.28	993.63	1002.05	8.42	1007.11
3	1506+39.42	0+24.42	W12X53	13.96	1008.06	994.10	1002.52	8.42	1008.89
4	1506+51.42	0+36.42	W12X53	15.25	1009.81	994.56	1002.98	8.42	1010.65
5	1506+63.42	0+48.42	W14X61	18.87	1011.40	992.53	1003.45	10.92	1012.23
6	1506+75.42	0+60.42	W14X61	19.96	1012.96	993.00	1003.91	10.92	1013.79
7	1506+87.42	0+72.42	W14X61	20.33	1013.79	993.46	1004.38	10.92	1014.62
8	1506+99.42	0+84.42	W14X61	20.70	1014.63	993.93	1004.84	10.92	1015.46
9	1507+11.42	0+96.42	W14X61	20.88	1015.27	994.39	1005.31	10.92	1016.11
10	1507+23.42	1+08.42	W14X61	21.05	1015.91	994.86	1005.78	10.92	1016.75
11	1507+35.42	1+20.42	W14X61	20.97	1016.30	995.32	1006.24	10.92	1017.13
12	1507+47.42	1+32.42	W14X61	20.85	1016.64	995.79	1006.71	10.92	1017.48
13	1507+59.42	1+44.42	W14X61	20.48	1016.73	996.25	1007.17	10.92	1017.56
14	1507+71.42	1+56.42	W14X61	20.03	1016.74	996.71	1007.63	10.92	1017.58
15	1507+83.42	1+68.42	W14X61	19.50	1016.64	997.14	1008.06	10.92	1017.47
16	1507+95.42	1+80.42	W14X61	18.93	1016.49	997.55	1008.47	10.92	1017.32
17	1508+07.42	1+92.42	W14X61	18.35	1016.31	997.96	1008.88	10.92	1017.14
18	1508+19.42	2+04.42	W12X53	16.25	1016.12	999.86	1009.28	9.42	1016.95
19	1508+31.39	2+16.42	W12X53	15.73	1015.97	1000.24	1009.66	9.42	1016.81
20	1508+43.30	2+28.42	W12X53	15.28	1015.87	1000.59	1010.01	9.42	1016.71
21	1508+55.20	2+40.42	W12X53	14.89	1015.82	1000.93	1010.35	9.42	1016.66
22	1508+67.11	2+52.42	W12X53	14.59	1015.84	1001.25	1010.67	9.42	1016.67
23	1508+79.02	2+64.42	W12X53	14.33	1015.89	1001.55	1010.97	9.42	1016.72
24	1508+90.93	2+76.42	W12X53	14.16	1016.00	1001.84	1011.25	9.42	1016.83
25	1509+02.84	2+88.42	W12X53	10.98	1016.09	1005.11	1011.53	6.42	1016.92
26	1509+14.74	3+00.42	W12X53	10.75	1016.11	1005.36	1011.77	6.42	1016.94
27	1509+26.65	3+12.42	W12X53	10.51	1016.11	1005.60	1012.02	6.42	1016.95
28	1509+38.56	3+24.42	W12X53	10.19	1016.01	1005.82	1012.24	6.42	1016.84
29	1509+50.47	3+36.42	W12X53	9.86	1015.90	1006.04	1012.45	6.42	1016.73
30	1509+62.38	3+48.42	W12X53	9.53	1015.73	1006.20	1012.62	6.42	1016.56
31	1509+74.59	3+60.72	W12X53	9.18	1015.55	1006.37	1012.79	6.42	1016.39

PANEL NUMBER	PANEL BOTTOM EL.	PANEL TOP EL. LEFT	PANEL TOP EL. RIGHT	PANEL HEIGHT LEFT	PANEL HEIGHT RIGHT	'B' BARS
1	1002.05	1004.38	1006.28	2.33	4.23	N/A
2	1002.52	1006.28	1008.06	3.76	5.54	#6'S @ 6 IN. MAX.
3	1002.98	1008.06	1009.81	5.08	6.83	#6'S @ 6 IN. MAX.
4	1003.45	1009.81	1011.40	6.36	7.95	#7'S @ 6 IN. MAX.
5	1003.91	1011.40	1012.96	7.49	9.05	#7'S @ 6 IN. MAX.
6	1004.38	1012.96	1013.79	8.58	9.41	#7'S @ 6 IN. MAX.
7	1004.84	1013.79	1014.63	8.95	9.79	#7'S @ 6 IN. MAX.
8	1005.31	1014.63	1015.27	9.32	9.96	#7'S @ 6 IN. MAX.
9	1005.78	1015.27	1015.91	9.49	10.13	#7'S @ 6 IN. MAX.
10	1006.24	1015.91	1016.30	9.67	10.06	#7'S @ 6 IN. MAX.
11	1006.71	1016.30	1016.64	9.59	9.93	#7'S @ 6 IN. MAX.
12	1007.17	1016.64	1016.73	9.47	9.56	#7'S @ 6 IN. MAX.
13	1007.63	1016.73	1016.74	9.10	9.11	#7'S @ 6 IN. MAX.
14	1008.06	1016.74	1016.64	8.68	8.58	#7'S @ 6 IN. MAX.
15	1008.47	1016.64	1016.49	8.17	8.02	#7'S @ 6 IN. MAX.
16	1008.88	1016.49	1016.31	7.61	7.43	#7'S @ 6 IN. MAX.
17	1009.28	1016.31	1016.12	7.03	6.84	#6'S @ 6 IN. MAX.
18	1009.66	1016.12	1015.97	6.46	6.31	#6'S @ 6 IN. MAX.
19	1010.01	1015.97	1015.87	5.96	5.86	#6'S @ 6 IN. MAX.
20	1010.35	1015.87	1015.82	5.52	5.47	#6'S @ 6 IN. MAX.
21	1010.67	1015.82	1015.84	5.15	5.17	#6'S @ 6 IN. MAX.
22	1010.97	1015.84	1015.89	4.87	4.92	N/A
23	1011.25	1015.89	1016.00	4.64	4.75	N/A
24	1011.53	1016.00	1016.09	4.47	4.56	N/A
25	1011.77	1016.09	1016.11	4.32	4.34	N/A
26	1012.02	1016.11	1016.11	4.09	4.09	N/A
27	1012.24	1016.11	1016.01	3.87	3.77	N/A
28	1012.45	1016.01	1015.90	3.56	3.45	N/A
29	1012.62	1015.90	1015.73	3.28	3.11	N/A
30	1012.79	1015.73	1015.55	2.94	2.76	N/A

WALL DATA TABLE

ALL GIVEN DIMENSIONS AND ELEVATIONS ARE IN FEET.

POSTS LENGTHS AND PANELS HEIGHTS MAY BE FABRICATED TO THE NEAREST WHOLE INCH VALUE AT CONTRACTORS OPTION.



MARK	COLOR	NOTES
A	BASE COLOR	FEDERAL COLOR NO. 30227
B	ACCENT COLOR #1	FEDERAL COLOR NO. 30122 - 25% OF "ASHLAR" STONES
C	ACCENT COLOR #2	FEDERAL COLOR NO. 30140 - 60% OF "ASHLAR" STONES
D	ACCENT COLOR #3	FEDERAL COLOR NO. 30111 - 15% OF "ASHLAR" STONES

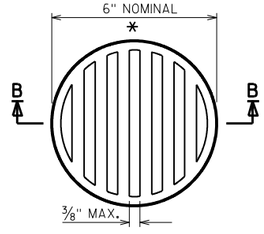
NOTES:

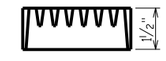
"ASHLAR" STONE SURFACES SHALL BE STAINED IN A RANDOMLY MIXED COLOR ARRANGEMENT ACCORDING TO THE PERCENTAGES ABOVE.

RECESSED "MORTAR" JOINTS SHALL BE STAINED THE BASE COLOR.

THE FINAL COLOR OF THE CONCRETE SHALL MATCH THE FEDERAL STANDARD COLORS LISTED OR SIMILAR COLORS APPROVED BY THE ENGINEER.

CONCRETE STAINING DETAILS





SECTION B-B

RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-102

DRAWN BY CAD | PLANS CK'D. ARC

WALL DATA TABLE

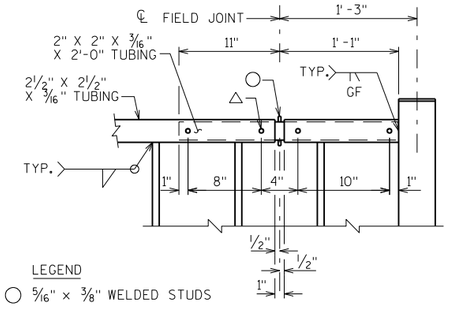
SHEET 3

786

SCALE =

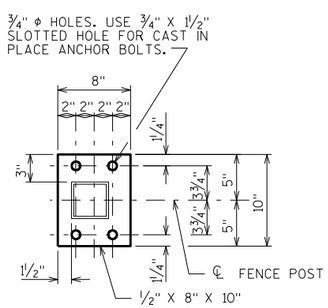
8

8

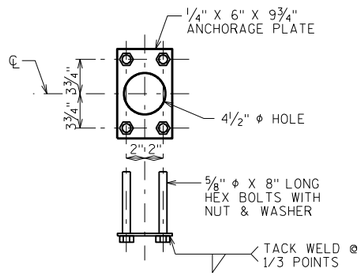


RAILING EXPANSION JOINT DETAIL

NOTE: EXPANSION JOINTS ARE REQUIRED IN RAIL SECTIONS OVER WALL COPING EXPANSION JOINTS.

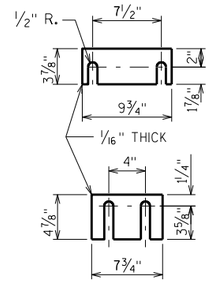


BASE PLATE



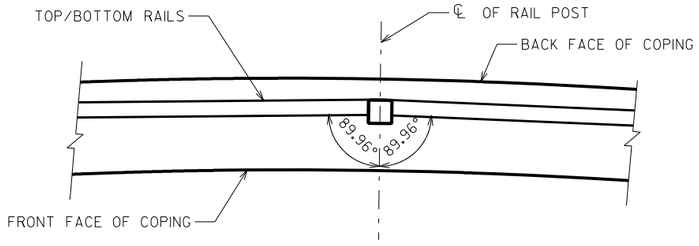
ANCHORAGE DETAIL

5/8" ϕ CONCRETE MASONRY ANCHOR, TYPE S EPOXY, 7" MINIMUM EMBEDMENT WITH A MINIMUM PULLOUT OF 20 KIPS MAY BE SUBSTITUTED FOR 5/8" CAST IN PLACE ANCHOR BOLTS. ANCHORAGE PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



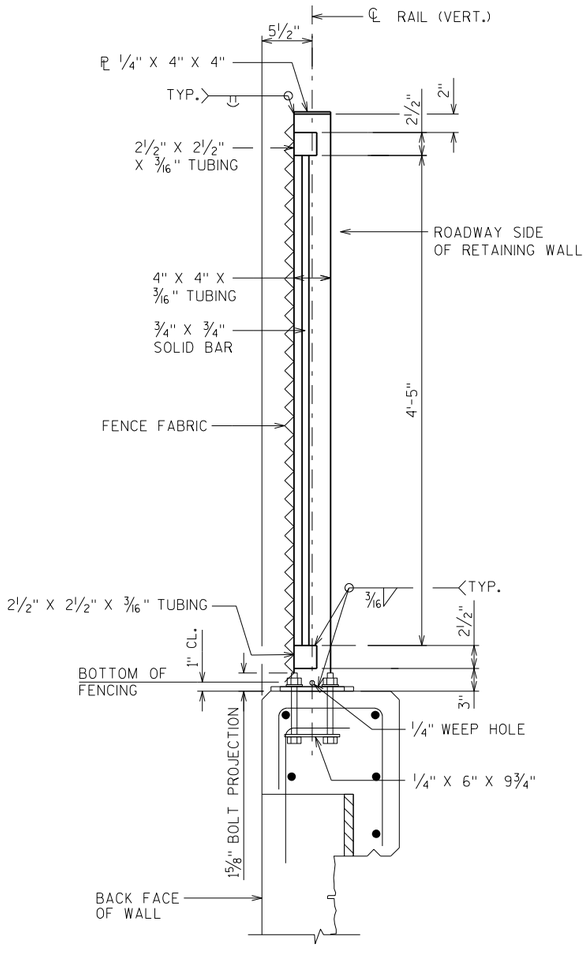
SHIM PLATE DETAILS

TWO SHIMS OF EACH SIZE REQUIRED PER POST

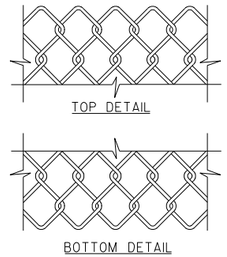


PLAN OF RAILING AT CURVED PORTION OF WALL

(WALL STA. 2+12.37 TO STA. 3+61.14)

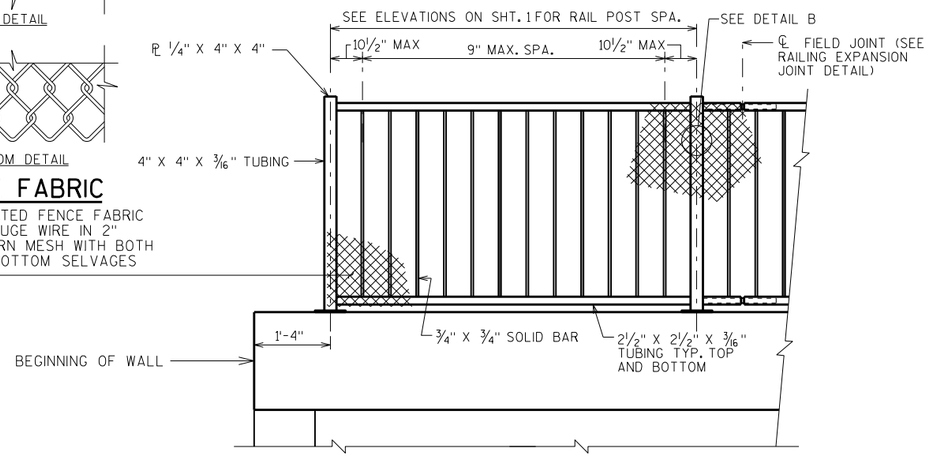


SECTION THRU RAILING



FENCE FABRIC

5'-0" VINYL COATED FENCE FABRIC WOVEN OF 9-GAUGE WIRE IN 2" DIAMOND PATTERN MESH WITH BOTH THE TOP AND BOTTOM SELVAGES KNUCKLED.



PARTIAL ELEVATION OF RAILING

NOTES

BID ITEM SHALL BE "RAILING TUBULAR SCREENING R-67-102" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILS AND POSTS TO BE ASTM A500, GRADE B. BASE PLATES AND SHIMS TO BE ASTM A709, GRADE 36. ALL GALVANIZED AFTER FABRICATION.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET POSTS NORMAL TO GRADE.

ALL POST SPA. ARE TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.

SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

CUT BOTTOM OF POST TO MAKE VERTICAL IN TRANSVERSE DIRECTION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR ASTM 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.

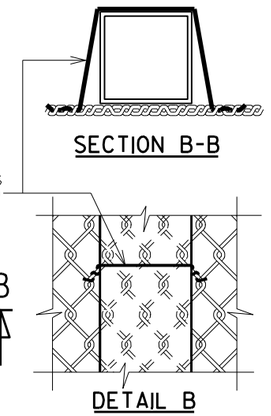
RAILING TO BE PAINTED AND FENCE FABRIC AND TIES TO BE VINYL COATED. FEDERAL COLOR NO. 34066, "DARK GREEN".

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 POSTS.

THE END OF THE FABRIC SHALL BE ATTACHED TO THE POST BY MEANS OF A TENSION BAR THREADED THROUGH THE END LOOPS OF THE FABRIC AND SECURED TO THE POST WITH CLAMPS & BOLT. THE FABRIC SHALL BE STRETCHED TO REMOVE ALL SLACK.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING.

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING ALL STEEL RAILING POSTS AND STEEL TUBING SHALL BE GIVEN A #6 BLAST CLEANING BY SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH APPROVED TIE COAT AND TOPCOAT.



SECTION B-B

DETAIL B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-102

DRAWN BY CAD | PLANS CK'D. ARC

ORNAMENTAL PROTECTIVE SCREENING

SHEET 4

787

STATE PROJECT NUMBER

1300-18-70

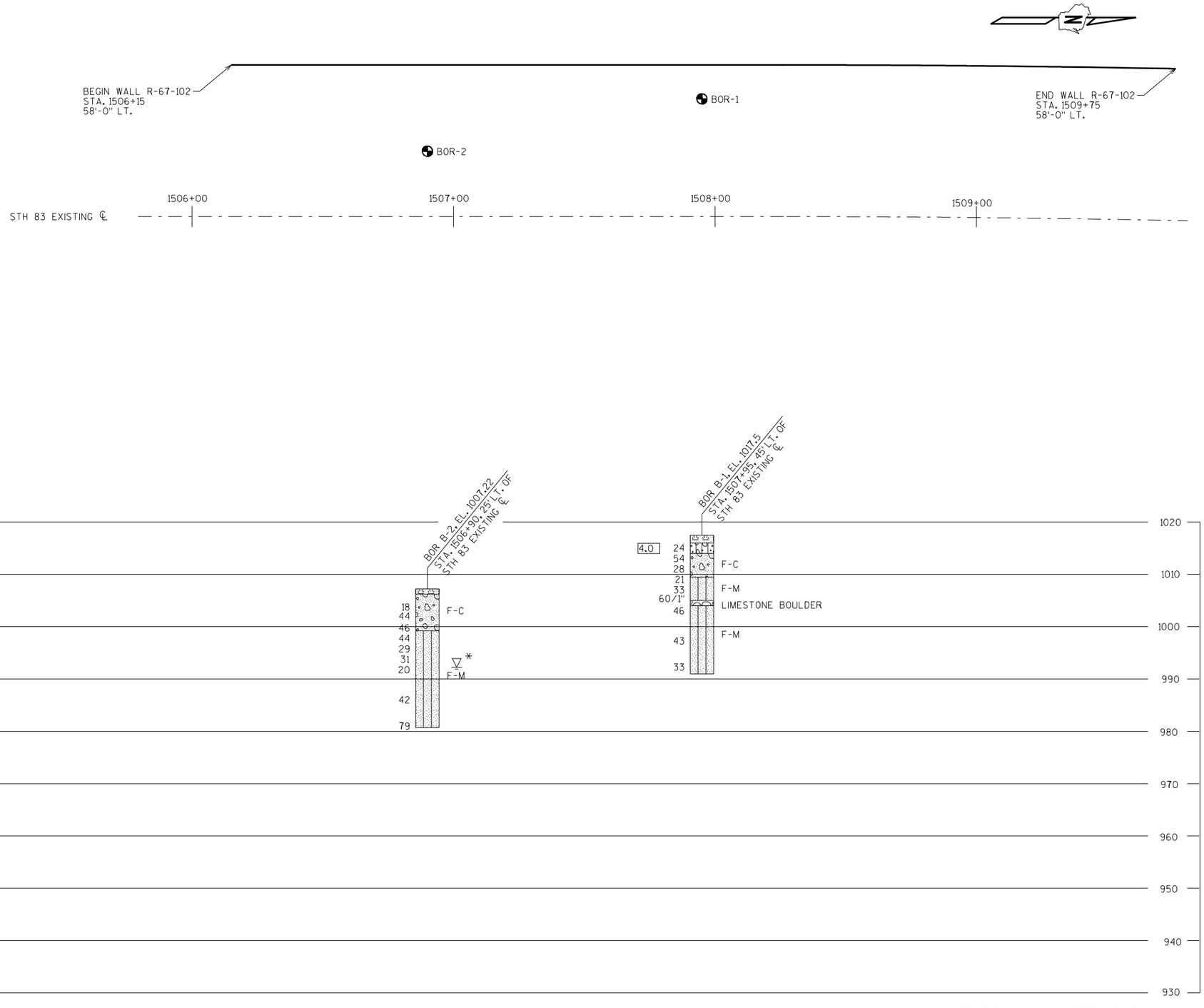
SCALE =

8

8

SCREENING
7-11

WALES ROAD (STH 83)
PERKINS RD - GLACIER PASS (N OF USH 18)



* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

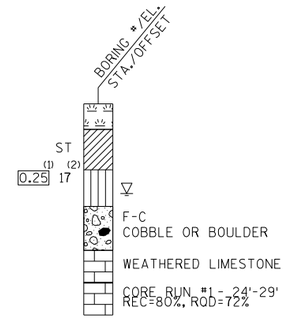
STATE PROJECT NUMBER

1330-18-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-102

DRAWN BY CAD | PLANS CK'D. ARC

SUBSURFACE EXPLORATION

SHEET 5

788

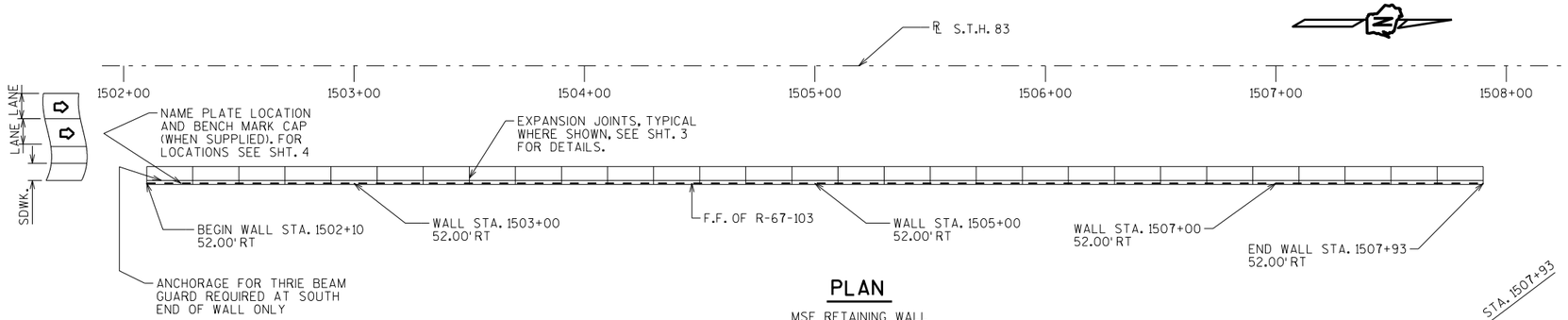
8

8

SCALE =

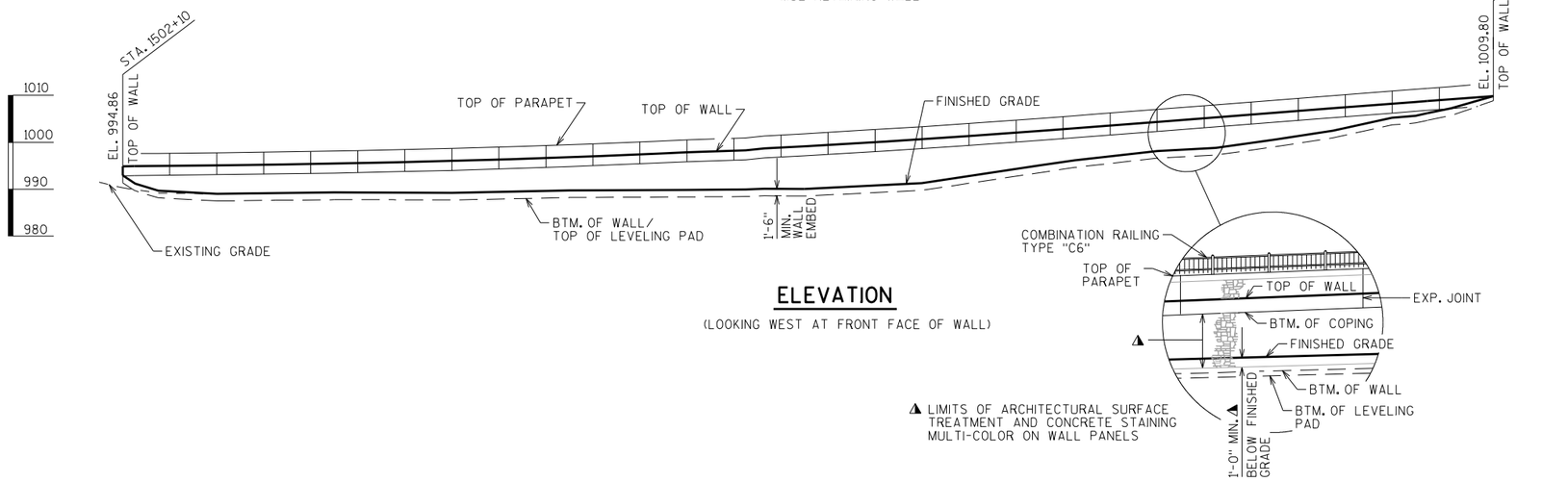
STATE PROJECT NUMBER

1330-18-70



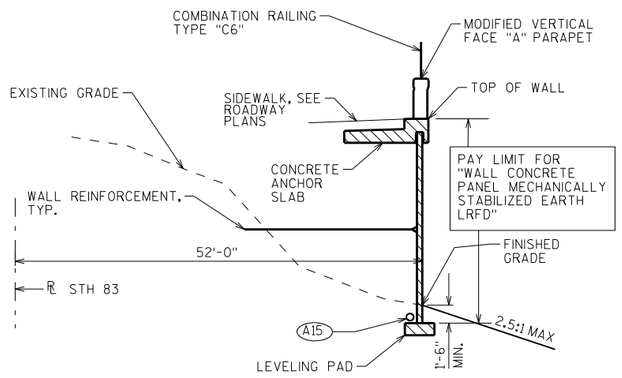
PLAN

MSE RETAINING WALL



ELEVATION

(LOOKING WEST AT FRONT FACE OF WALL)



SECTION THRU WALL

(LOOKING NORTH)

A15 PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED. SEE SHT. 2 FOR RODENT SCREEN DETAIL.

ELEVATION TABLE

WALL STA.	TOP OF WALL EL.	FINISHED GRADE EL.
1502+10	994.86	994.46
1502+15	994.89	992.00
1502+25	994.95	989.78
1502+50	995.09	989.55
1502+75	995.26	989.48
1503+00	995.43	989.40
1503+25	995.72	989.36
1503+50	996.00	989.32
1503+75	996.40	989.58
1504+00	996.80	989.84
1504+25	997.32	989.88
1504+50	997.84	989.92
1504+75	998.25	990.07
1504+83	998.66	990.21
1505+00	999.12	990.17
1505+25	999.88	990.79
1505+50	1000.63	991.41
1505+75	1001.51	993.30
1506+00	1002.39	995.19
1506+15	1002.96	996.23
1506+25	1003.35	996.80
1506+50	1004.32	998.22
1506+75	1005.29	998.91
1507+00	1006.26	1000.39
1507+25	1007.23	1002.57
1507+50	1008.20	1005.31
1507+60	1008.59	1005.73
1507+65	1008.78	1006.26
1507+75	1009.15	1007.30
1507+93	1009.80	1009.80

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN RETAINING WALL TO PROVIDE FOR FINISH GRADE SLOPED BEHIND WALL AS SHOWN.

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY _____ f'c = 4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 _____ fy = 60,000 P.S.I.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. WALL DETAILS
4. COMBINATION RAIL TYPE "C6"
5. COMBINATION RAIL TYPE "C6" DETAILS
6. SUBSURFACE EXPLORATION

STRUCTURES DESIGN CONTACTS:
CHRIS DOLL (608) 266-3229
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 8/16/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-67-103

MSE CONCRETE PANEL WALL ALONG STH 83

COUNTY WAUKESHA | ~~TOWN/CITY/~~VILLAGE WALES

DESIGN SPEC. AASHTO LRFD DESIGN SPEC.

DESIGNED BY	CAD	DESIGN CK'D.	JDL	DRAWN BY	CAD	PLANS CK'D.	JDL

GENERAL PLAN

SHEET 1 OF 6

789

SCALE = 30

I.D. 1330-18-00B

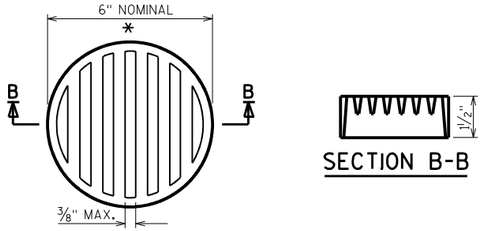
DATE: OCT. 2012

8

8

STATE PROJECT NUMBER

1330-18-70



RODENT SCREEN DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH SHEET METAL SCREWS.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	265
505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	29,060
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	30
517.1010.S	CONCRETE STAINING R-67-103	SF	2,385
517.1015.S	CONCRETE STAINING MULTI-COLOR R-67-103	SF	5,365
517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-67-103	SF	5,365
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	605
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1
SPV.0105	RAILING STEEL TYPE C6 GALVANIZED R-67-103	LS	1
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD	SF	4,675
	NON-BID ITEMS		
	CORK FILLER	SIZE	1"
	EXPANDED POLYSTYRENE	SIZE	1"
	NON-BITUMINOUS JOINT SEALER		

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF THE WALL (R-67-103).

EXPANSION JOINT LOCATIONS AND DIMENSIONS ARE FOR INFORMATIONAL USE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF THE EXPANSION JOINTS.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO THE TOP OF LEVELING PAD, SET A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

THE SOIL AT THE BASE OF THE WALL SHOULD BE REVIEWED BY SOUTHEAST REGION WAUKESHA OFFICE SOILS ENGINEER TO DETERMINE IF THE SOILS HAVE ADEQUATE STRENGTH TO SUPPORT THE MSE WALL WITH PRECAST CONCRETE PANEL FACING.

SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL (WITHIN THE WALL REINFORCING ZONE)*	30	0	120
F-M SAND SILT, (BEHIND THE REINFORCEMENT ZONE)	31	0	110
BORING 1, STA 1502+50			
EL. 989.1 - EL. 981.8 (GRAY/BROWN SOFT-MEDIUM SILT MOTTLED)	0	0.5	110
EL. 981.8 - EL. 972.8 (BOULDERS & COBBLES, SOME SILT, SOME F-C GRAVEL)	36	0	125
BORING 2, STA 1507+75			
EL. 1006.3 - EL. 1000.4 (FILL)	31	0	120
EL. 1000.4 - EL. 996.9 (BOULDERS & COBBLES, SOME F-C GRAVEL & F-C SAND)	36	0	125
EL. 996.9 - EL. 900.9 (FIRM-VERY DENSE F-C SAND, SOME F-C GRAVEL & F-C GRAVEL)	35	0	125
EL. 900.9 - EL. 974.4 (LOOSE TO DENSE F-M SILT SAND, SOME F-C GRAVEL)	33	0	115
BORING 3, STA 1506+00			
EL. 995.2 - EL. 991.8 (MEDIUM-STIFF SILT, TRACE OF F-C SAND, TRACE OF GRAVEL)	0	1,200	110
EL. 991.8 - EL. 989.8 (FIRM F-M SAND, TRACE OF GRAVEL)	31	0	110
EL. 989.8 - EL. 972.3 (FIRM-VERY DENSE F-C SAND & GRAVEL, SOME COBBLES)	35	0	125
BORING 4, STA 1504+25			
EL. 989.8- EL. 989.2 (LOOSE F, SANDY SILT)	28	0	105
EL. 989.2 - EL. 980.2 (LOOSE F-M SAND, LITTLE SILT)	28	0	110
EL. 980.2 - EL. 971.7 (SOFT SILT, TRACE OF SAND, TRACE OF CLAY)	0	250	105
EL. 971.7 - EL. 965.7 (FRIM TO VERY DENSE F-C SAND & GRAVEL, SOME COBBLES)	33	0	120

* DESIGN WALL FOR THESE VALUES

THE TYPICAL WALL SECTION USED IN THE ANALYSES HAD AN EXPOSED HEIGHT THAT VARIED FROM 2.6 FEET TO 9.3 FEET. THE FOLLOWING ASSUMPTIONS ARE ALSO INCLUDED IN THE ANALYSES:

1. THE SLOPE BEHIND THE WALL IS 0%.
2. THE SLOPE IN FRONT OF THE WALL IS VARIABLE 1V:3H-1V:4H.
3. THE GROUNDWATER ELEVATION RANGED BETWEEN 970.2 FT. AND 980.4 FT.
4. THE GRANULAR BACKFILL IS FREE DRAINING AND WILL NOT BECOME SATURATED.
5. THE MINIMUM EMBEDMENT DEPTH IS 1.5 FEET.
6. THE THICKNESS OF THE CONCRETE PANEL IS 5.5-INCHES.
7. A SURCHARGE LOAD OF 240 PSF IS INCLUDED TO MODEL LIGHTWEIGHT CONSTRUCTION EQUIPMENT AND LIVE LOAD.
8. GLOBAL STABILITY WAS DETERMINED BY THE COMPUTER PROGRAM XSTABL
9. BEARING CAPACITY IS DETERMINED BY TERZAGHI'S BEARING CAPACITY EQUATION.
10. SETTLEMENT OF THE FOUNDATION ON COHESIONLESS SOIL IS BASED UPON METHODS DESCRIBED IN THE FHWA SOILS AND FOUNDATIONS MANUAL.
11. DESIGN COMPLETED USING LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHODS.
12. 1.5 FEET WAS ADDED TO THE EXPOSED HEIGHTS TO ARRIVE AT THE DESIGN HEIGHTS (TOTAL HEIGHTS).

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS						
WALL HEIGHT[1] (FEET)	7.6	4.1	8.8	10.8	9.0	10.1
EXPOSED WALL HEIGHT (FEET)	6.1	2.6	7.3	9.3	7.5	8.6
MINIMUM LENGTH OF REINFORCEMENT (FEET)[3]	10.0	8.0	8.0	8.0	8.0	9.0
LENGTH OF REIN./WALL HT.	1.3	0.7	0.7	0.7	0.7	0.9
WALL STATION	1502+50	1507+75	1506+00	1505+50	1504+25	1504+83
BORING USED	B-1	B-2	B-3	B-3	B-4	B-4
CAPACITY TO DEMAND RATIO (CDR)[4]						
SLIDING (CDR>1.0)	2.1	2.3	1.5	1.3	1.5	1.5
ECCENTRICITY (CDR>1.0)	4.2	10.5	2.0	1.3	1.9	1.9
BEARING (CDR>1.0)	1.0	3.7	1.9	1.5	1.1	1.1
FACTORED BEARING RESISTANCE	1715 PSF	3850 PSF	4000 PSF	4000 PSF	2430 PSF	2600 PSF
GLOBAL STABILITY (CDR>1.0)	1.6	N/A[5]	N/A[5]	1.4	N/A[5]	1.3

1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD OF 240 PSF.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH.
4. REQUIRED CDR'S ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
5. N/A NOT APPLICABLE, GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-103

DRAWN BY CAD | PLANS CK'D. JDL

QUANTITIES & NOTES

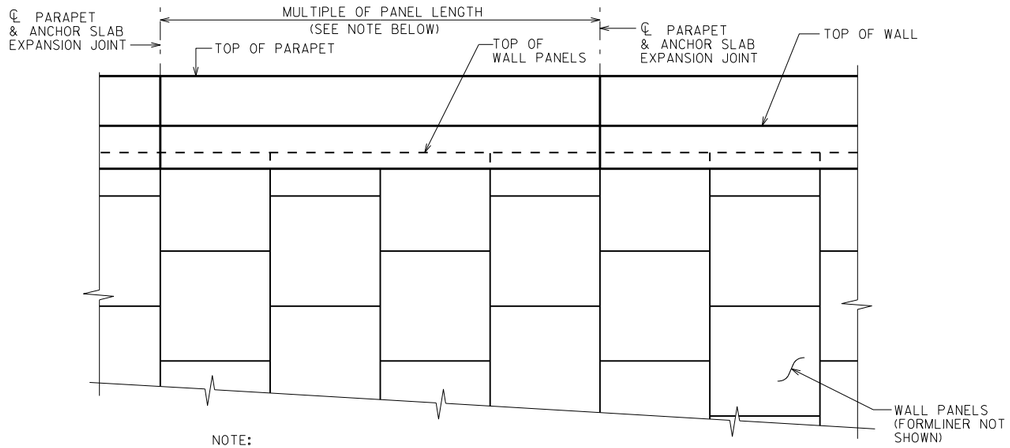
SHEET 2

790

SCALE = 6

STATE PROJECT NUMBER

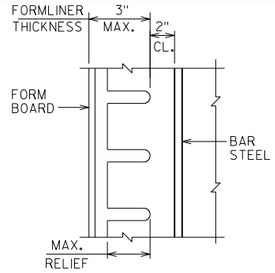
1330-18-70



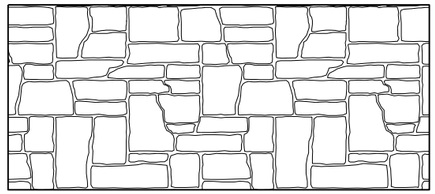
NOTE:
ALL JOINTS SHALL BE LOCATED AS SHOWN ON WALL ELEVATIONS AND MUST COINCIDE WITH PANEL JOINTS ON FRONT FACE.

CAST-IN-PLACE PARAPET & COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL



SECTION THRU FORMLINER



RUSTIC ASHLAR
SIZE = 8" TO 32"
MAX RELIEF = 2" @ WALL PANELS & PARAPET (WALL FACE)
1" @ PARAPET (ROADWAY FACE)

FORMLINER DETAILS

NOTES:

FORMLINER COURSING ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.

FORMLINER COURSING ON WALL SHALL BE LEVEL.

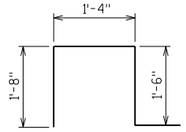
THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS WALL PANEL JOINTS.

BILL OF BARS

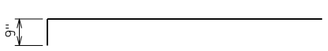
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
W401	X	438	5'-0"	X		CONC. COPING - TRANS. - VERT.
W502	X	875	8'-0"	X		CONC. ANCHOR SLAB - TRANS. - HORIZ. - TOP
W403	X	438	6'-1"			CONC. ANCHOR SLAB - TRANS. - HORIZ. - BTM.
W404*	X	21	582'-8"			LONGIT. - HORIZ.
W505	X	875	4'-11"	X		ANCHOR SLAB & PARAPET - TRANS. - VERT.
W506	X	875	6'-5"	X		PARAPET - TRANS. - VERT.

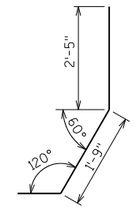
NOTE:
* THE NUMBER AND OVERALL LENGTH SHOWN FOR W404 BARS IS FOR QUANTITY PURPOSES ONLY. ACTUAL NUMBER OF BARS AND LENGTH WILL BE DEPENDENT ON THE UNKNOWN WALL PANEL CONFIGURATION AS WELL AS THE EXPANSION JOINT LOCATIONS.



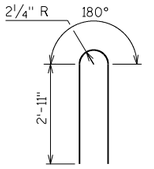
W401



W502

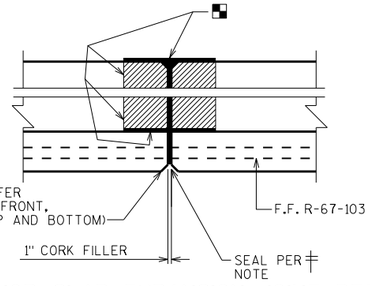


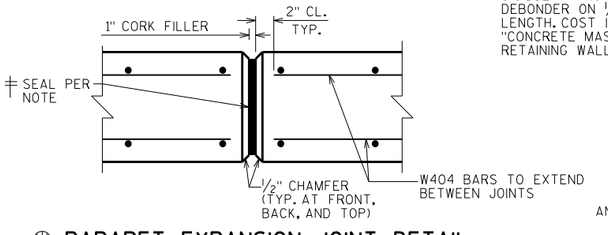
W505



W506

⊛ ANCHOR SLAB EXPANSION JOINT DETAIL

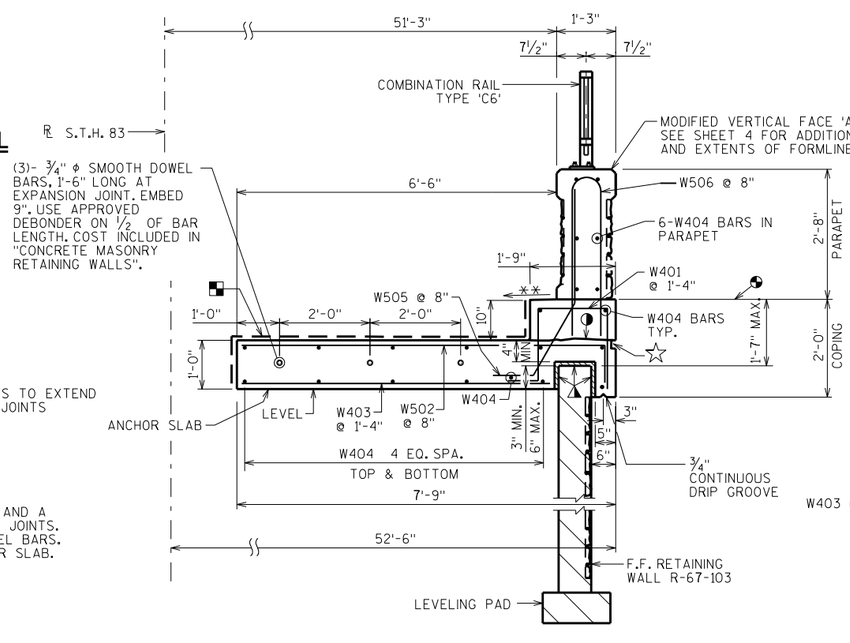




⊛ PARAPET EXPANSION JOINT DETAIL

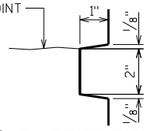
⊛ EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT. EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

╪ SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF FILLER WITH A NON-STAINING NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)



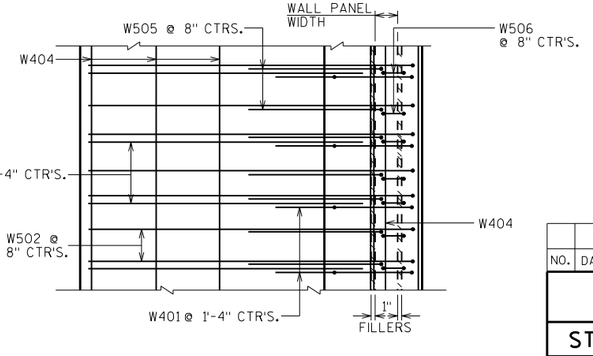
SECTION THRU WALL

(LOOKING NORTH)



☆ RUSTICATION DETAIL

(PROVIDE IF OPTIONAL CONST. JOINT IS USED)



PARTIAL ANCHOR SLAB REINF. PLAN

NOTE: NOT ALL LONGITUDINAL W404 BARS SHOWN IN THIS PLAN.

LEGEND

◭ EXPANDED POLYSTYRENE (1 INCH) TYPICAL AT EACH SIDE

◑ OPT. CONST. JOINT, LEAVE SURFACE ROUGHENED. PROVIDE RUSTICATION IF USED. SEE 'RUSTICATION DETAIL'. IF OPT. CONST. JOINT IS USED, PLACE 18" MEMBRANE WATERPROOFING ALONG THE ENTIRE LONGITUDINAL JOINT. THE MEMBRANE WATERPROOFING SEALING OF THE OPT. CONST. JOINT IS INCIDENTAL TO BID ITEM "CONCRETE MASONRY RETAINING WALLS".

◔ TOP OF WALL ELEVATION

** SLOPE TO MATCH ROADWAY CROSS-SECTIONS

◪ 18" RUBBERIZED MEMBRANE WATERPROOFING TO BE PLACED ON THESE SURFACES AT EACH JOINT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-103

DRAWN BY CAD | PLANS CK'D. JDL

WALL DETAILS | SHEET 3 | 791

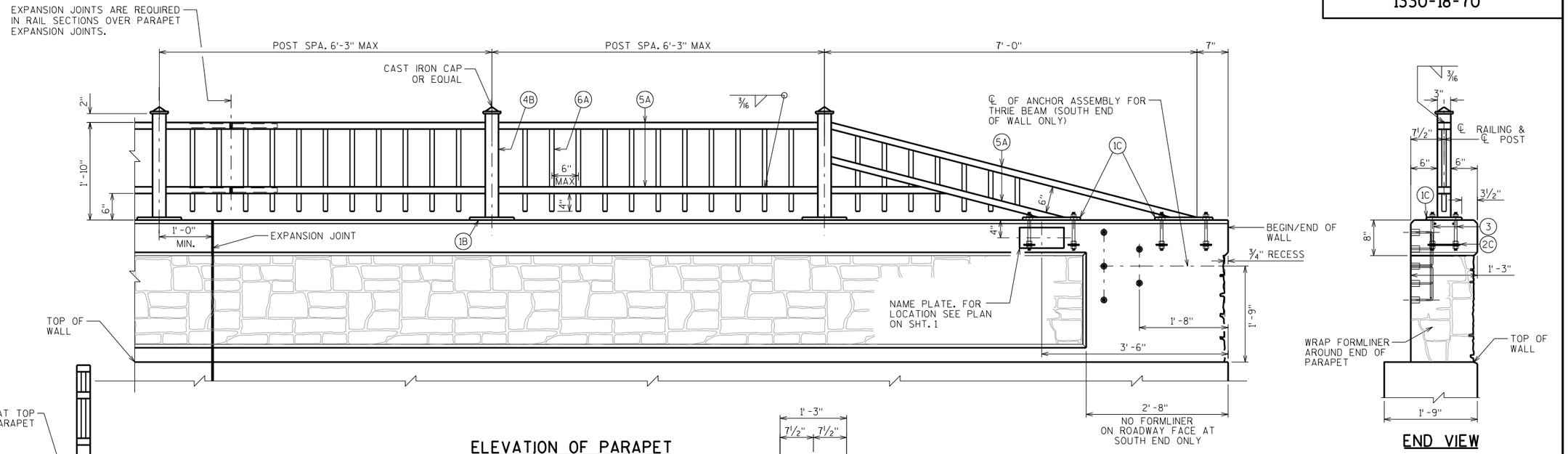
SCALE = 20

8

8

STATE PROJECT NUMBER

1330-18-70

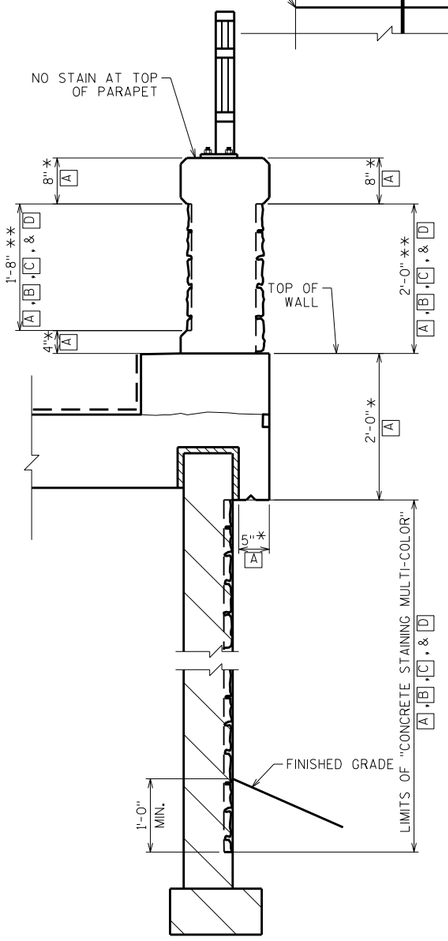


ELEVATION OF PARAPET

(LOOKING AT INSIDE FACE)

SEE SHT. 5 FOR RAILING NOTES

END VIEW



MARK	COLOR	NOTES
A	BASE COLOR	FEDERAL COLOR NO. 30227
B	ACCENT COLOR #1	FEDERAL COLOR NO. 30122 - 25% OF "ASHLAR" STONES
C	ACCENT COLOR #2	FEDERAL COLOR NO. 30140 - 60% OF "ASHLAR" STONES
D	ACCENT COLOR #3	FEDERAL COLOR NO. 30111 - 15% OF "ASHLAR" STONES

NOTES:

"ASHLAR" STONE SURFACES SHALL BE STAINED IN A RANDOMLY MIXED COLOR ARRANGEMENT ACCORDING TO THE PERCENTAGES ABOVE.

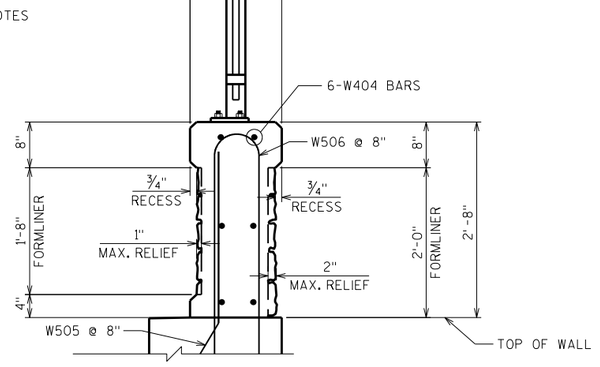
RECESSED "MORTAR" JOINTS SHALL BE STAINED THE BASE COLOR.

THE FINAL COLOR OF THE CONCRETE SHALL MATCH THE FEDERAL STANDARD COLORS LISTED OR SIMILAR COLORS APPROVED BY THE ENGINEER.

* = "CONCRETE STAINING"

** = "CONCRETE STAINING MULTI-COLOR"

CONCRETE STAINING DETAILS



MODIFIED VERTICAL FACE 'A' PARAPET

LEGEND

(1B) PLATE 5/8" X 6" X 10" WITH 3/4" X 1 1/2" SLOTTED HOLES

(1C) PLATE 5/8" X 8" X 1'-1" WITH 3/4" X 1 1/2" SLOTTED HOLES.

(2B) 1/4" X 5" X 9" ANCHOR PLATE WITH 11/16" ϕ HOLES FOR THR'D. RODS NO. 3.

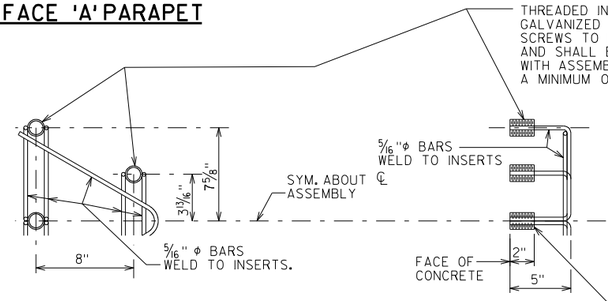
(2C) 1/4" X 2 1/2" X 7 1/4" ANCHOR PLATE WITH 11/16" ϕ HOLES FOR THR'D. RODS NO. 3.

(3) 5/8" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), 5/8" ϕ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS AND 5" FOR END RAILS.)

(4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1 1/2" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.



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.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-103

DRAWN BY: CAD | PLANS CK'D.: JDL

COMBINATION RAIL TYPE "C6"

SHEET 4

792

RAILCOMB 7-11

SCALE = 1.000

8 16 1011 1234

STATE PROJECT NUMBER

1330-18-70

LEGEND

(1B) PLATE 5/8" X 6" X 10" WITH 3/4" X 1 1/2" SLOTTED HOLES

(1C) PLATE 5/8" X 8" X 1'-1" WITH 3/4" X 1 1/2" SLOTTED HOLES.

(2B) 1/4" X 5" X 9" ANCHOR PLATE WITH 11/16" φ HOLES FOR THR'D. RODS NO. 3.

(2C) 1/4" X 2 1/2" X 7 1/4" ANCHOR PLATE WITH 11/16" φ HOLES FOR THR'D. RODS NO. 3.

(3) 5/8" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), 5/8" φ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS AND 5" FOR END RAILS.)

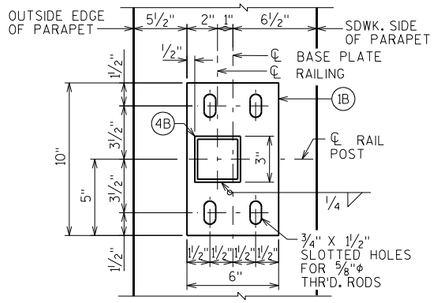
(4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1 1/2" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

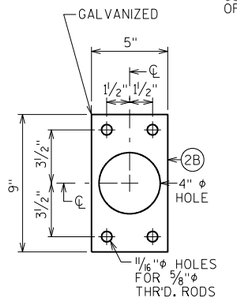
(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.

(9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

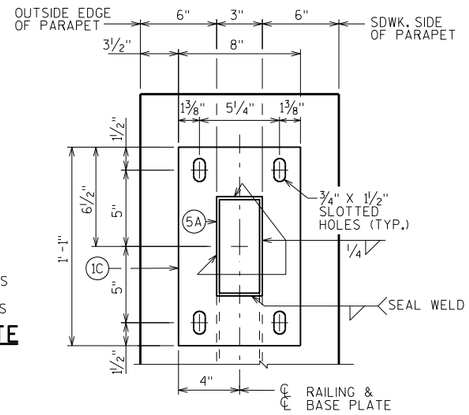
(10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4")



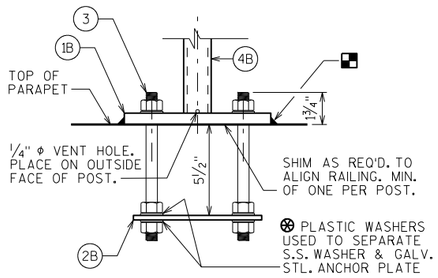
TYPICAL RAIL POST BASE PLATE



ANCHOR PLATE

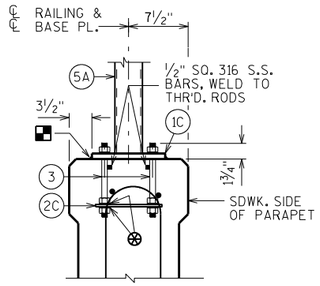


END RAIL BASE PLATE



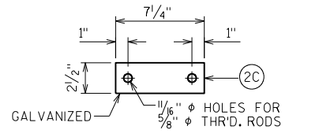
ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



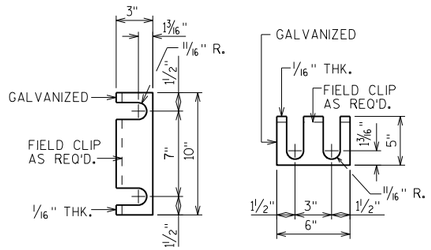
ANCHORAGE FOR END RAIL

NOTE: ANCHOR PLATES NOT REQ'D. WHEN TYPE "S" ANCHORS ARE USED.



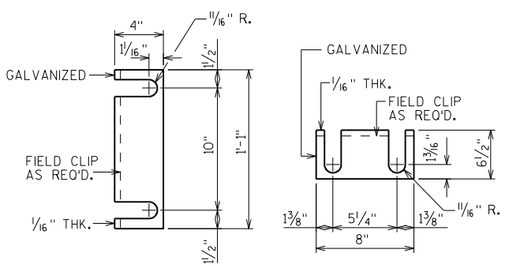
END RAIL ANCHOR PLATE

FOR END RAIL BASE PLATES
2 REQ'D. PER END RAIL BASE PLATE



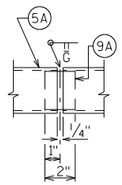
RAIL POST SHIM DETAIL

(2 SETS PER POST)



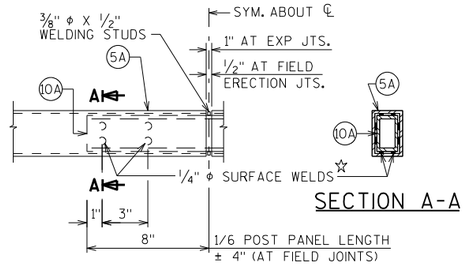
END RAIL SHIM DETAIL

(2 SETS PER POST)



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION A-A

FIELD ERECTION/EXP. JOINT DETAIL

☆ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

NOTE: EXPANSION JOINTS ARE REQUIRED IN RAIL SECTIONS OVER ANCHOR SLAB & PARAPET EXPANSION JOINTS.

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C6 GALVANIZED R-67-103", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 2, 6, 9, AND NO. 10 SHALL CONFORM TO ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (NO. 4 AND NO. 5).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE "BRIDGE SPECIAL PROVISIONS". THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 34066, DARK GREEN.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-103

DRAWN BY CAD | PLANS CK'D. JDL

COMBINATION RAIL TYPE "C6" DETAILS

SHEET 5

793

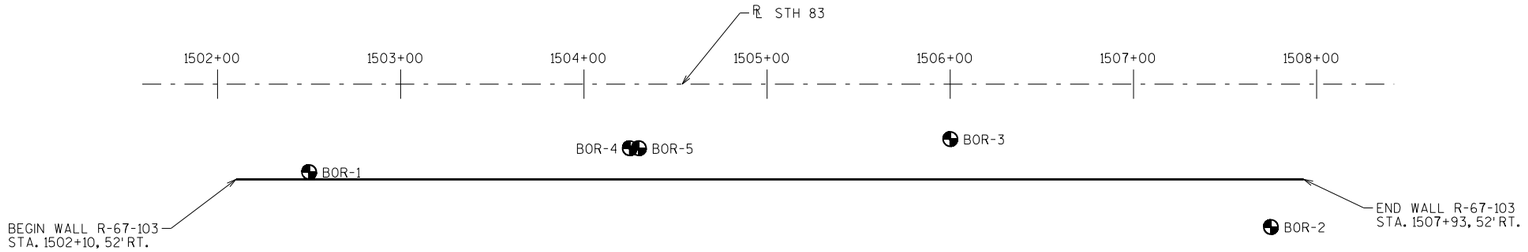
8

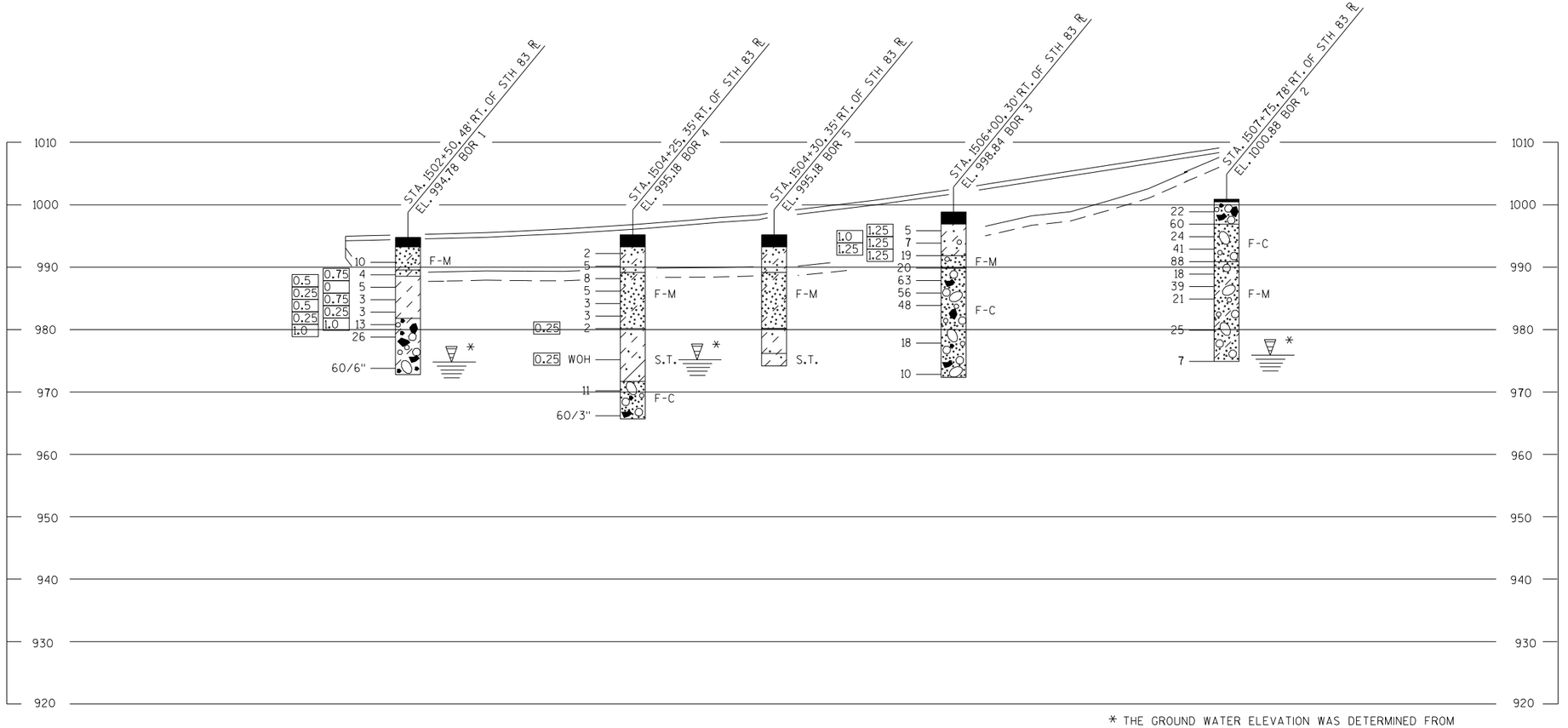
1011

1234

SCALE = 1.000

RAILCOMBDET
1-12





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

STATE PROJECT NUMBER

1330-80-70

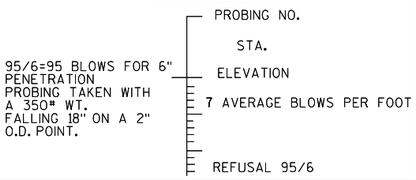
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

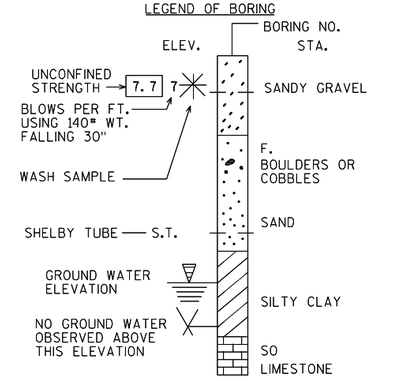
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-103

DRAWN BY CAD | PLANS CK'D. JDL

SUBSURFACE EXPLORATION

SHEET 6

794

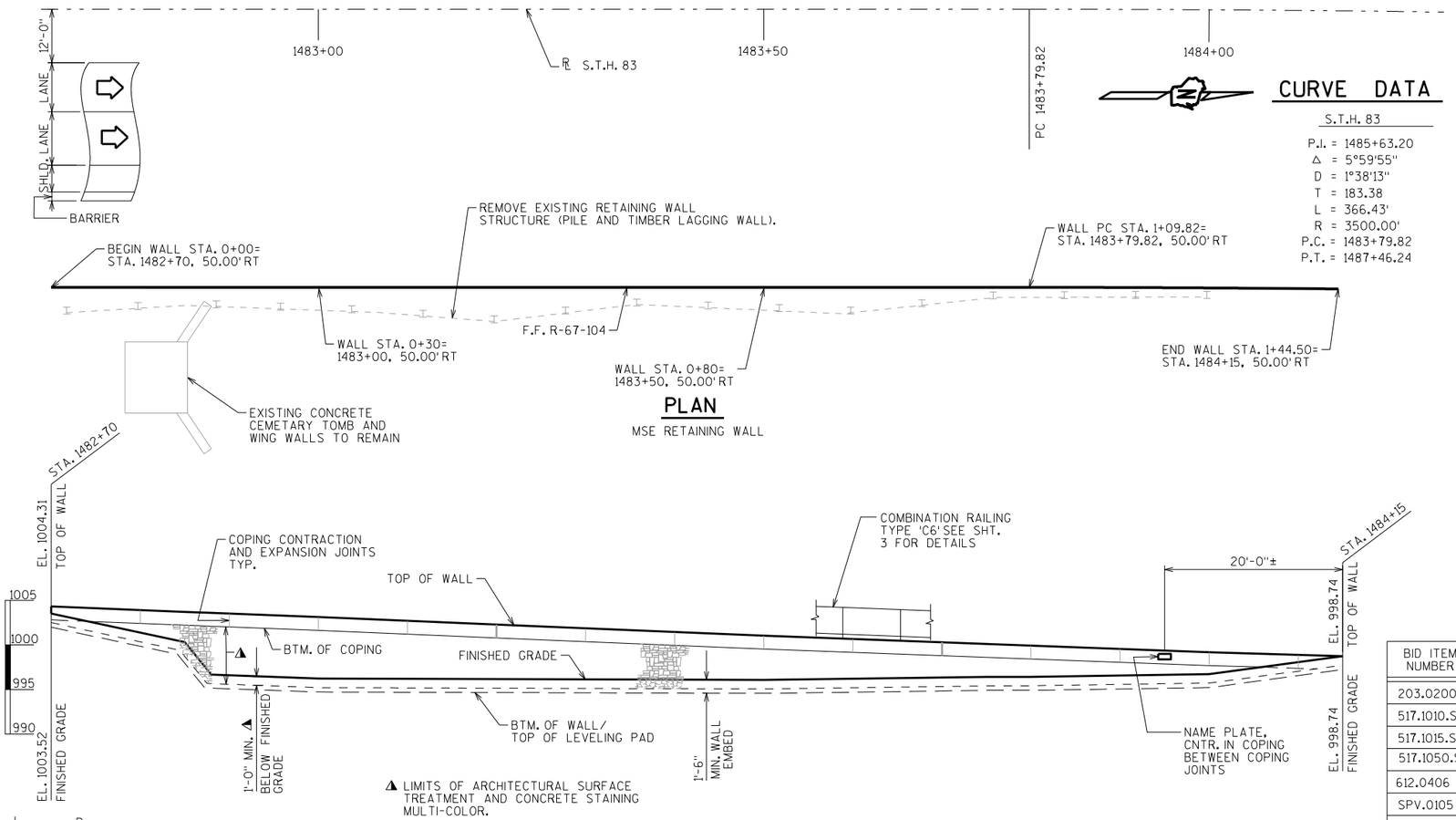
SCALE =

8

8

STATE PROJECT NUMBER

1330-18-70



PLAN

MSE RETAINING WALL

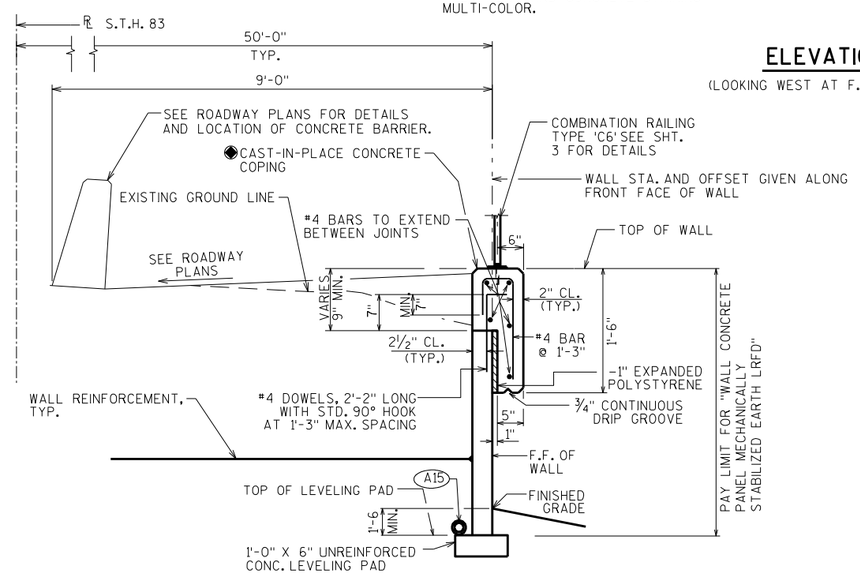
CURVE DATA

S.T.H. 83

P.I. = 1485+63.20
Δ = 5°59'55"
D = 1°38'13"
T = 183.38
L = 366.43'
R = 3500.00'
P.C. = 1483+79.82
P.T. = 1487+46.24

ELEVATION

(LOOKING WEST AT F.F. OF WALL)



SECTION THRU WALL

ELEVATION TABLE

STA. ALONG ℄ STH 83	WALL STA.	TOP OF WALL EL.	FINISHED GRADE EL.
1482+70	0+00.00	1004.31	1003.52
1482+85	0+15.00	1003.71	1000.32
1482+88	0+18.00	1003.59	996.68
1483+00	0+30.00	1003.12	996.23
1483+25	0+55.00	1002.08	996.15
1483+50	0+80.00	1001.03	996.07
1483+75	1+05.00	1000.11	996.40
1483+79.82	1+09.82	999.93	996.47
1484+00	1+29.71	999.18	996.73
1484+15	1+44.50	998.74	998.74

◆ COST OF C.I.P. COPING AND REINFORCING SHALL BE INCIDENTAL TO BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

(A15) PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED. SEE SHT. 3 FOR RODENT SCREEN DETAIL.

LIST OF DRAWINGS

1. GENERAL PLAN
2. WALL DETAILS
3. COMBINATION RAIL TYPE "C6"
4. SUBSURFACE EXPLORATION

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN RETAINING WALL TO PROVIDE FOR FINISH GRADE SLOPED BEHIND WALL AS SHOWN.

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY (CONCRETE COPING) _____ f'c = 3,500 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 _____ fy = 60,000 P.S.I.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE STA. 1482+80	LS	1
517.1010.S	CONCRETE STAINING R-67-104	SF	280
517.1015.S	CONCRETE STAINING MULTI-COLOR R-67-104	SF	565
517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-67-104	SF	565
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	165
SPV.0105	RAILING STEEL TYPE C6 GALVANIZED PEDESTRIAN R-67-104	LS	1
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD	SF	852
	NON-BID ITEMS		
	PREFORMED FILLER	SIZE	¾"
	EXPANDED POLYSTYRENE	SIZE	1"
	NON-BITUMINOUS JOINT SEALER		

STRUCTURES DESIGN CONTACTS:
CHRIS DOLL (608) 266-3229
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 8/16/13
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-67-104

MSE CONCRETE PANEL WALL ALONG STH 83

COUNTY WAUKESHA — ~~TOWN/CITY/~~VILLAGE WALES

DESIGN SPEC. AASHTO LRFD DESIGN SPEC.

DESIGNED BY	CAD	DESIGN CK'D.	JDL	DRAWN BY	CAD	PLANS CK'D.	JDL

GENERAL PLAN

SHEET 1 OF 4

795

I.D. 1330-18-00C

DATE: AUGUST 2012

SCALE = 7.5

8

8

STATE PROJECT NUMBER

1330-18-70

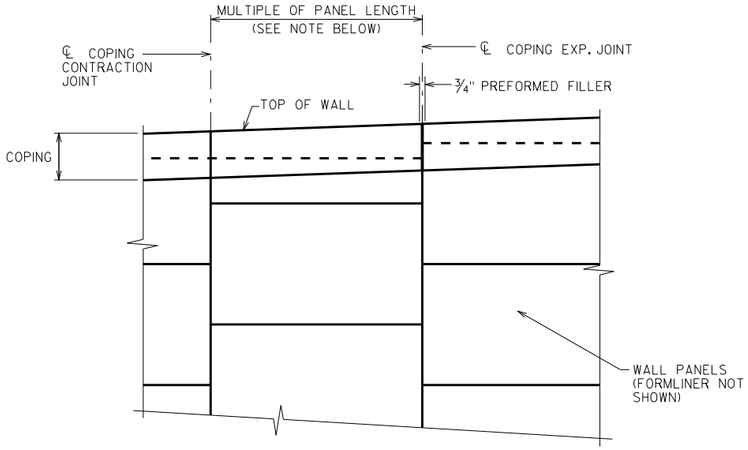
SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL (WITHIN THE WALL REINFORCING ZONE)*	30	0	120
F-M SAND SOME SILT, (BEHIND THE REINFORCEMENT ZONE)	31	0	110
BORING 1, STA 1482+55			
EL. 994.7 - EL. 986.4 (BROWN F-C SAND & F-C GRAVEL, SOME COBBLES)	32	0	110
EL. 986.4 - EL. 978.9 (BROWN F-C SAND & F-C GRAVEL, SOME COBBLES AND BOULDERS)	32	0	110
BORING 2, STA 1484+05			
EL. 995.3 - EL. 989.7 (SOFT-MEDIUM BROWN SILT-SANDY SILT, TRACE-LITTLE F-M GRAVEL)	0	330	105
EL. 989.7 - EL. 987.2 (GRAY/BROWN MEDIUM-VERY STIFF SILT, MOTTLED)	0	1375	110
EL. 987.2 - EL. 972.7 (DENSE-VERY DENSE F-C SAND & GRAVEL, COBBLES AND BOULDER)	34	0	120

* DESIGN WALL FOR THESE VALUES

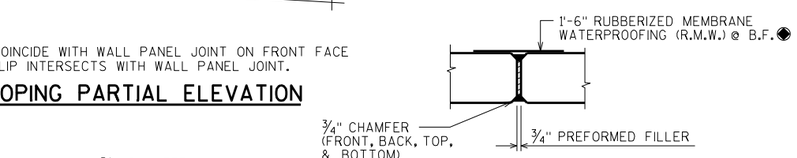
THE TYPICAL WALL SECTION USED IN THE ANALYSES HAD AN EXPOSED HEIGHT BETWEEN 2.1 AND 8.1 FEET. THE FOLLOWING ASSUMPTIONS ARE ALSO INCLUDED IN THE ANALYSES:

1. THE SLOPE BEHIND THE WALL IS 0%.
2. THE SLOPE IN FRONT OF THE WALL IS VARIABLE FROM HORIZONTAL TO 1V:4H.
3. THE GROUNDWATER ELEVATION WAS BELOW THE INVESTIGATED AREA.
4. THE GRANULAR BACKFILL IS FREE DRAINING AND WILL NOT BECOME SATURATED.
5. THE MINIMUM EMBEDMENT DEPTH IS 1.5 FEET.
6. THE THICKNESS OF THE CONCRETE PANEL IS 5.5-INCHES.
7. A SURCHARGE LOAD OF 240 PSF IS INCLUDED TO MODEL LIGHTWEIGHT CONSTRUCTION EQUIPMENT AND LIVE LOAD.
8. GLOBAL STABILITY WAS DETERMINED BY THE COMPUTER PROGRAM XSTABL
9. BEARING CAPACITY IS DETERMINED BY TERZAGHI'S BEARING CAPACITY EQUATION.
10. SETTLEMENT OF THE FOUNDATION ON COHESIONLESS SOIL IS BASED UPON METHODS DESCRIBED IN THE FHWA SOILS AND FOUNDATIONS MANUAL.
11. DESIGN COMPLETED USING LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHODS.
12. 1.5 FEET WAS ADDED TO THE EXPOSED HEIGHTS TO ARRIVE AT THE DESIGN HEIGHTS (TOTAL HEIGHTS)



NOTE:
ALL JOINTS MUST COINCIDE WITH WALL PANEL JOINT ON FRONT FACE WHERE BOTTOM OF LIP INTERSECTS WITH WALL PANEL JOINT.

WALL & COPING PARTIAL ELEVATION



SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF FILLER WITH A NON-STAINING, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONRETE).

R.M.W. TO EXTEND FROM TOP OF COPING TO 6" BELOW BOTTOM OF COPING AT THE BACK FACE OF THE WALL.

COPING CONTRACTION JOINT PLAN

MAX. SPA. OF JOINT = 12'-0"

COPING EXPANSION JOINT PLAN

MAX. SPA. OF JOINT = 50'-0"

NOTES:

DO NOT RUN ANY BAR STEEL THRU JOINTS.

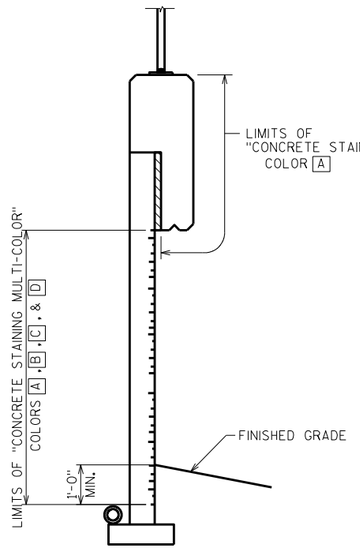
ALL JOINTS TO EXTEND FULL DEPTH OF COPING.

◆ COST OF R.M.W. SHALL BE INCIDENTAL TO BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS				
WALL HEIGHT[1] (FEET)	9.6	3.6	5.0	6.3
EXPOSED WALL HEIGHT (FEET)	8.1	2.1	3.5	4.8
MINIMUM LENGTH OF REINFORCEMENT[3]	8.0	8.0	8.0	8.0
LENGTH OF REIN./WALL HT.	0.7	0.7	0.7	0.7
WALL STATION	1482+85	1484+00	1483+75	1483+50
BORING USED	B-1	B-2	B-2	B-2
CAPACITY TO DEMAND RATIO (CDR)[4]				
SLIDING (CDR>1.0)	1.4	2.5	2.1	1.8
ECCENTRICITY (CDR>1.0)	1.6	16.0	6.2	3.7
BEARING (CDR>1.0)	1.3	2.0	1.6	1.1
FACTORED BEARING RESISTANCE	3000 PSF	2000 PSF	2000 PSF	1600 PSF
GLOBAL STABILITY (CDR>1.0)	1.4	N/A[5]	N/A[5]	1.8

1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE WALL STABILITY EVALUATION INCLUDED A SURCHARGE LOAD OF 240 PSF.
3. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH.
4. REQUIRED CDR'S ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.
5. N/A NOT APPLICABLE, GLOBAL SLOPE STABILITY WAS EVALUATED AT THE CRITICAL WALL LOCATION.



CONCRETE STAINING DETAILS

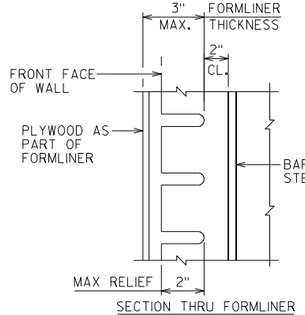
MARK	COLOR	NOTES
A	BASE COLOR	FEDERAL COLOR NO. 30227
B	ACCENT COLOR #1	FEDERAL COLOR NO. 30122 - 25% OF "ASHLAR" STONES
C	ACCENT COLOR #2	FEDERAL COLOR NO. 30140 - 60% OF "ASHLAR" STONES
D	ACCENT COLOR #3	FEDERAL COLOR NO. 30111 - 15% OF "ASHLAR" STONES

NOTES:

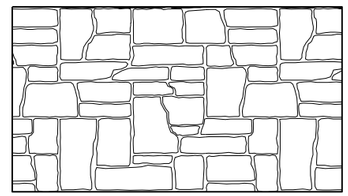
"ASHLAR" STONE SURFACES SHALL BE STAINED IN A RANDOMLY MIXED COLOR ARRANGEMENT ACCORDING TO THE PERCENTAGES ABOVE.

RECESSED "MORTAR" JOINTS SHALL BE STAINED THE BASE COLOR.

THE FINAL COLOR OF THE CONCRETE SHALL MATCH THE FEDERAL STANDARD COLORS LISTED OR SIMILAR COLORS APPROVED BY THE ENGINEER.



SECTION THRU FORMLINER



RUSTIC ASHLAR
SIZE = 8" TO 32"
RELIEF = 2" MAX

FORMLINER DETAILS

NOTES:

FORMLINER COURSING ON WALL SHALL BE LEVEL

THE FORMLINER COURSING SHALL BE VERTICALLY ALIGNED.

THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS WALL PANEL JOINTS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL IN CAST-IN-PLACE CONCRETE COPING SHALL BE EPOXY COATED.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF THE WALL (R-67-104).

EXPANSION AND CONTRACTION JOINT LOCATIONS AND DIMENSIONS ARE FOR INFORMATIONAL USE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF THE EXPANSION JOINTS.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO THE TOP OF LEVELING PAD, SET A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

THE SOIL AT THE BASE OF THE WALL SHOULD BE REVIEWED BY SOUTHEAST REGION WAUKESHA OFFICE SOILS ENGINEER TO DETERMINE IF THE SOILS HAVE ADEQUATE STRENGTH TO SUPPORT THE MSE WALL WITH PRECAST CONCRETE PANEL FACING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-104

DRAWN BY CAD | PLANS CK'D. JDL

WALL DETAILS

SHEET 2

796

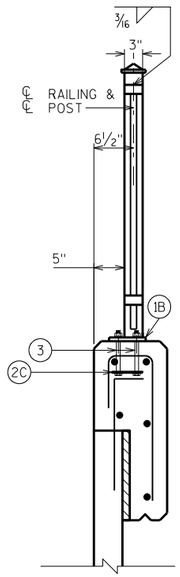
8

8

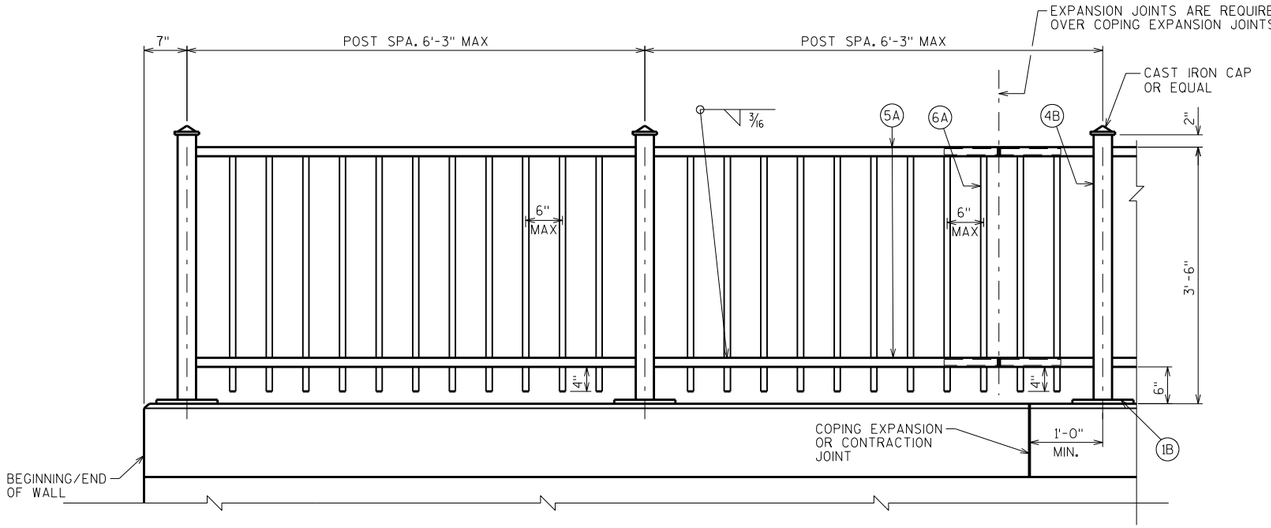
SCALE = 6.0

STATE PROJECT NUMBER

1330-18-70



END VIEW



ELEVATION OF RAILING

LEGEND

(1B) PLATE 5/8" X 6" X 10" WITH 3/4" X 1 1/2" SLOTTED HOLES

(2B) 1/4" X 5" X 9" ANCHOR PLATE WITH 11/16" ϕ HOLES FOR THR'D. RODS NO. 3.

(2C) 1/4" X 2 1/2" X 7 1/4" ANCHOR PLATE WITH 11/16" ϕ HOLES FOR THR'D. RODS NO. 3.

(3) 5/8" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), 5/8" ϕ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS AND 5" FOR END RAILS.)

(4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.

(5A) STRUCTURAL TUBING 3" X 1 1/2" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.

(6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.

(9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".

(10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4")

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C6 GALVANIZED PEDESTRIAN R-67-104", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 2, 6, 9, AND NO. 10 SHALL CONFORM TO ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (NO. 4 AND NO. 5).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

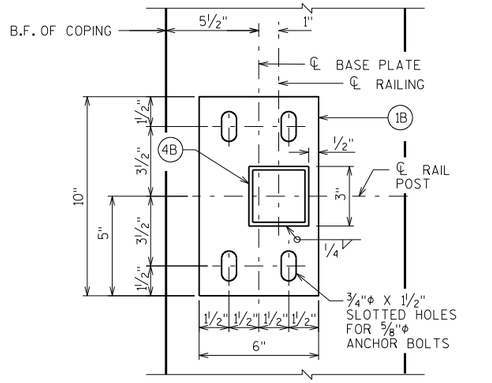
ALL JOINTS AND RECESSES IN CONCRETE COPING ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE "BRIDGE SPECIAL PROVISIONS". THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 34066, DARK GREEN.

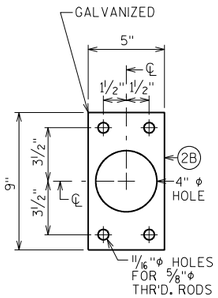
VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

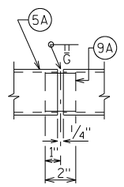
TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



TYPICAL RAIL POST BASE PLATE

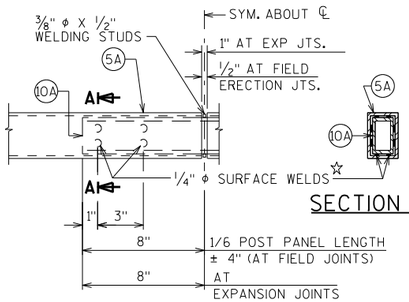


ANCHOR PLATE



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)

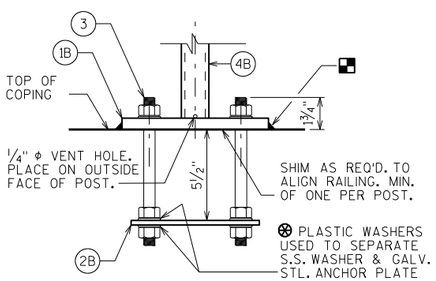


SECTION A-A

FIELD ERECTION/EXP. JOINT DETAIL

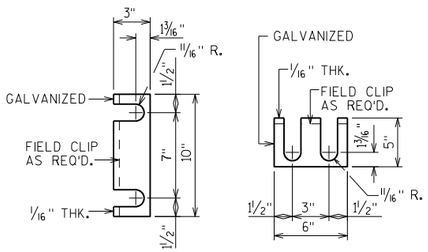
☆ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

NOTE: EXPANSION JOINTS ARE REQUIRED IN RAIL SECTIONS OVER COPING EXPANSION JOINTS.



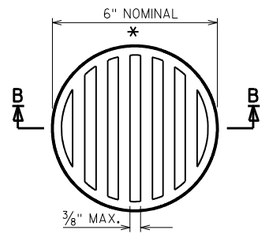
ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.

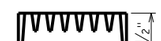


RAIL POST SHIM DETAIL

(2 SETS PER POST)



RODENT SCREEN DETAIL



SECTION B-B

✳ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH SHEET METAL SCREWS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-104

DRAWN BY CAD | PLANS CK'D. JDL

COMBINATION RAIL TYPE "C6"

SHEET 3

797

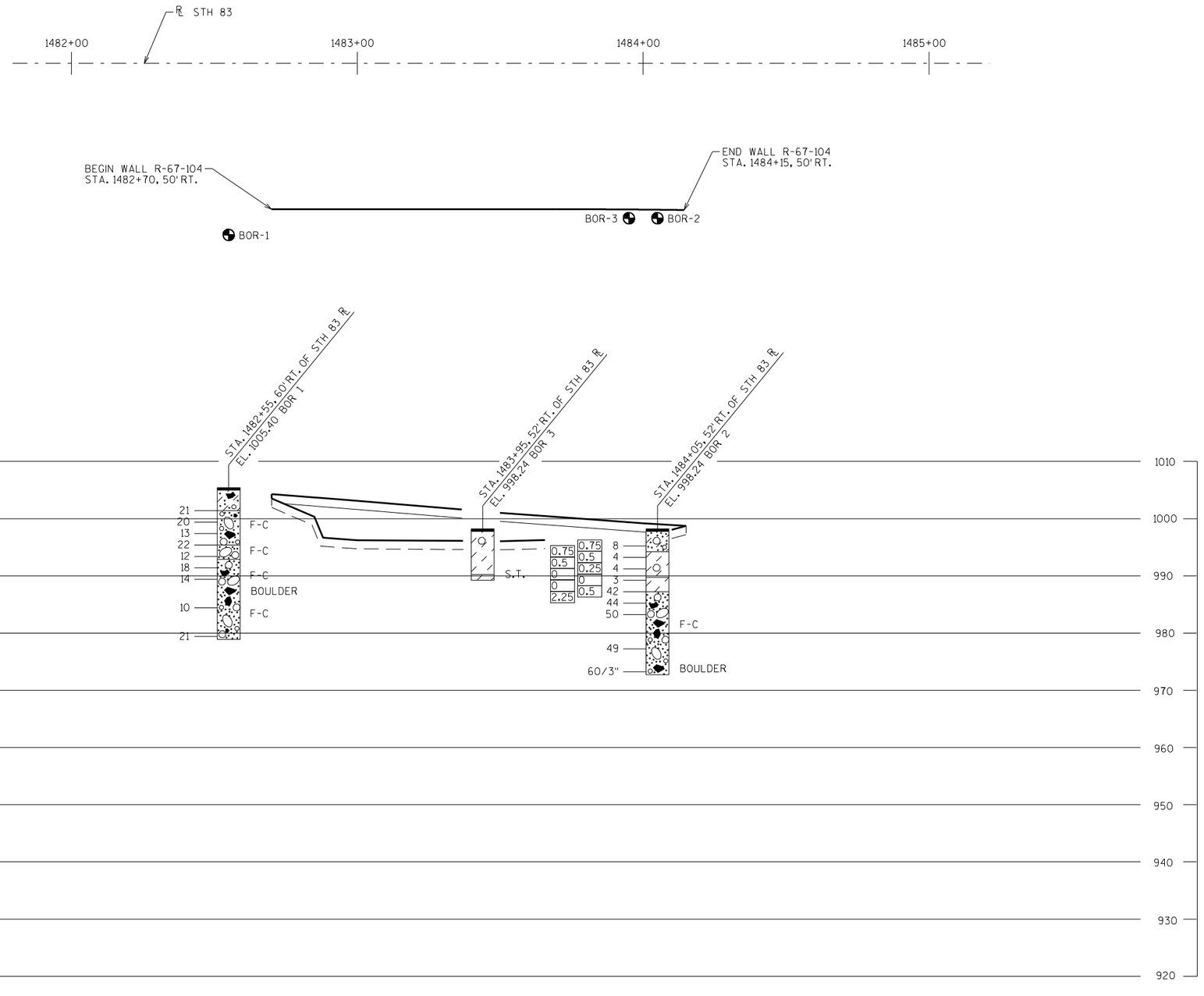
RAILCOMB 7-11

8

10 11 12

1 2 3 4

SCALE = 1.000



STATE PROJECT NUMBER

1330-18-70

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
SANDY GRAVEL
F.
BOULDERS OR COBBLES
SHELBY TUBE — S.T.
SAND
GROUND WATER ELEVATION
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SILTY CLAY
SO
LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-104

DRAWN BY CAD | PLANS CK'D. JDL

SUBSURFACE EXPLORATION

SHEET 4

798

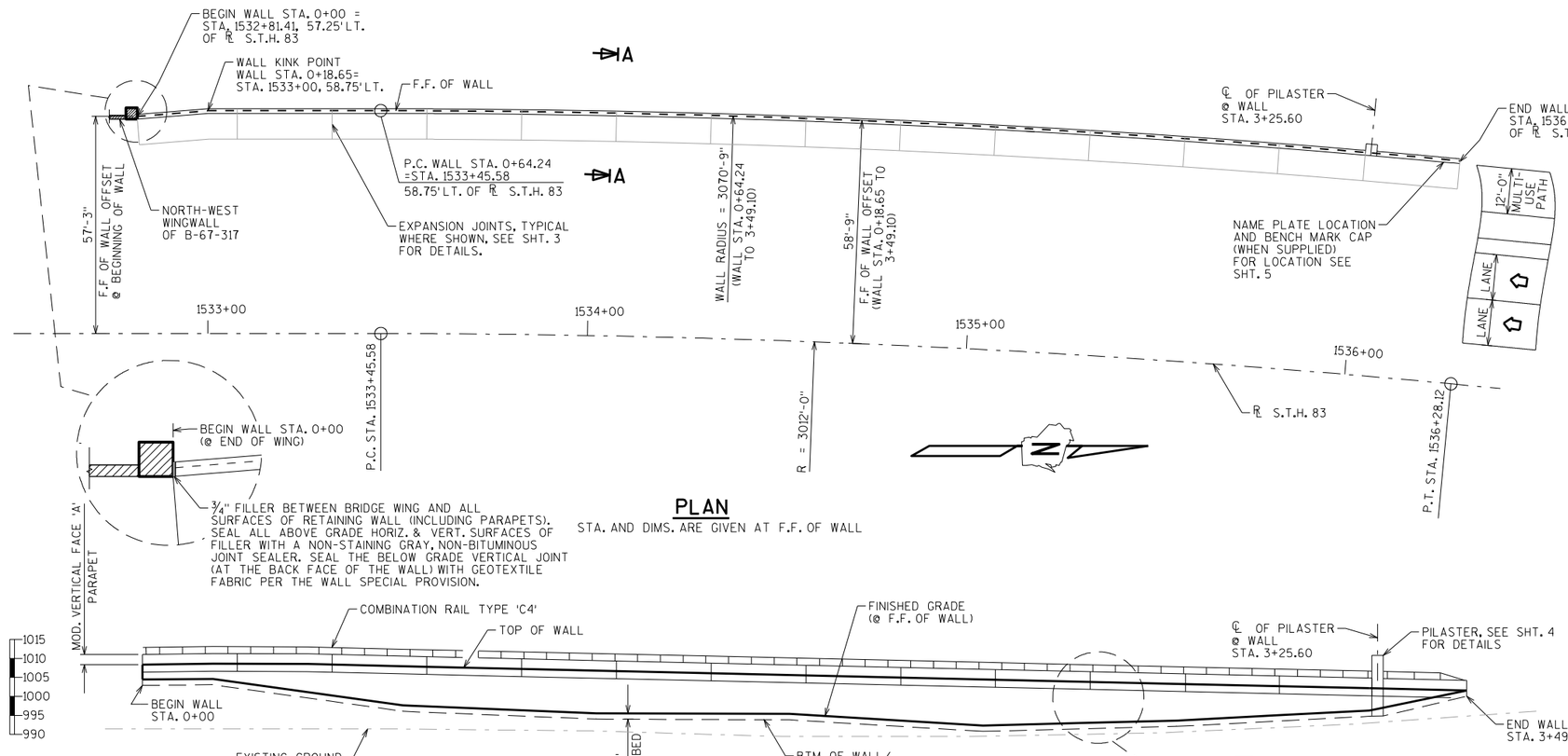
8

8

SCALE =

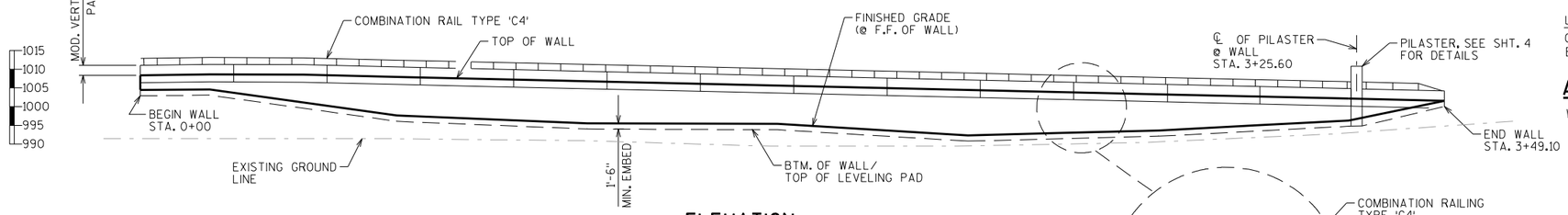
STATE PROJECT NUMBER

1330-18-70



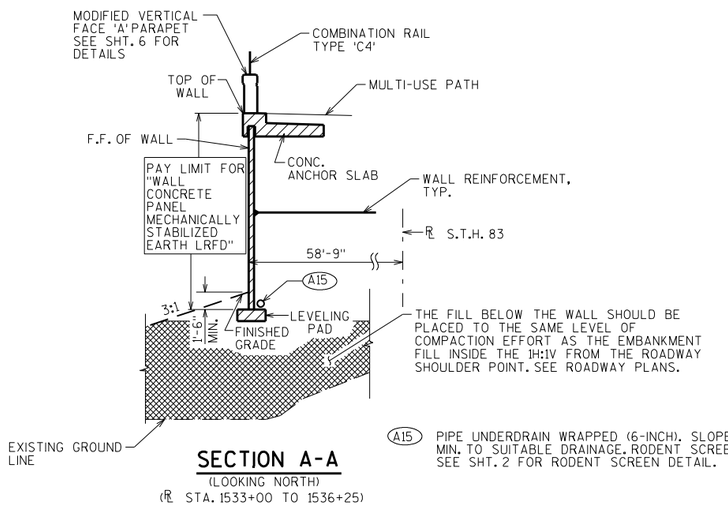
PLAN

STA. AND DIMS. ARE GIVEN AT F.F. OF WALL



ELEVATION

(LOOKING @ B.F. OF WALL)



SECTION A-A

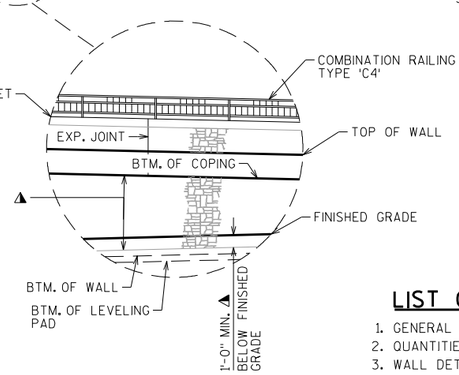
(LOOKING NORTH)

(℄ STA. 1533+00 TO 1536+25)

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SCREEN REQUIRED. SEE SHT. 2 FOR RODENT SCREEN DETAIL.

ELEVATION TABLE

S.T.H. 83 ℄ STA.	WALL STA.	TOP OF WALL EL.	FINISHED GRADE EL.
1532+81.41	0+00	1008.47	1004.00
1533+00	0+18.65	1008.29	1004.14
1533+25	0+43.65	1007.88	1000.66
1533+50	0+68.74	1007.48	997.17
1533+75	0+94.22	1006.90	996.14
1534+00	1+19.71	1006.33	995.10
1534+25	1+45.20	1005.75	995.02
1534+50	1+70.69	1005.17	994.94
1534+75	1+96.17	1004.59	993.41
1535+00	2+21.66	1004.02	991.87
1535+25	2+47.15	1003.44	992.53
1535+50	2+72.64	1002.86	993.18
1535+75	2+98.13	1002.28	994.51
1536+00	3+23.61	1001.71	995.83
1536+25	3+49.10	1001.13	1001.13



▲ LIMITS OF ARCHITECTURAL SURFACE TREATMENT AND CONCRETE STAINING MULTI-COLOR ON WALL PANELS

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN IN THE ROADWAY PLANS.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY _____ f'c = 4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60 _____ fy = 60,000 P.S.I.

ALLOWABLE WALL SYSTEMS

WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD

CURVE DATA

S.T.H. 83

P.I. = 1534+86.96
Δ = 5°22'12"
D = 1°54'00"
T = 141.37'
L = 282.54'
R = 3012.00'
P.C. = 1533+45.58
P.T. = 1536+28.12

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES AND NOTES
3. WALL DETAILS
4. COMBINATION RAIL TYPE "C4"
5. COMBINATION RAIL TYPE "C4" DETAILS
6. AESTHETIC DETAILS
7. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:
CHRIS DOLL (608) 266-3229
LAURA SHADEWALD (608) 267-9592

NO.	DATE	REVISION	BY

Plans Prepared By WISDOT
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher LLS 8/16/13
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-67-107

RETAINING WALL ALONG S.T.H. 83

COUNTY WAUKESHA
~~TOWN/CITY~~/VILLAGE WALES

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
CAD	ARC	CAD	ARC

GENERAL PLAN

SHEET 1 OF 7

799

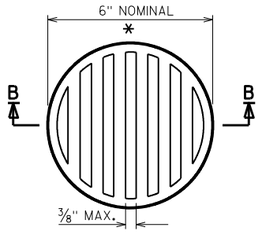
I.D. 1330-18-00D

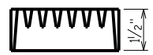
DATE: MARCH 2013

SCALE = 18

8

8





SECTION B-B

RODENT SCREEN DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SCREEN SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SCREEN TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH SHEET METAL SCREWS.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	161
505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	17,665
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	17
517.1010.S	CONCRETE STAINING R-67-107	SF	1,430
517.1015.S	CONCRETE STAINING MULTI-COLOR R-67-107	SF	4,150
517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-67-107	SF	4,150
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	375
SPV.0105	RAILING STEEL TYPE C4 GALVANIZED R-67-107	LS	1
SPV.0165	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD	SF	3,665
	NON-BID ITEMS		
	CORK FILLER	SIZE	1"
	EXPANDED POLYSTYRENE	SIZE	1"
	NON-BITUMINOUS JOINT SEALER		

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BEVEL ALL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF THE WALL (R-67-107).

EXPANSION JOINT LOCATIONS AND DIMENSIONS ARE FOR INFORMATIONAL USE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF THE EXPANSION JOINTS.

THE PLAN QUANTITY FOR THE ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF WALL TO THE TOP OF LEVELING PAD, SET A CONSTANT DEPTH OF 1'-6" BELOW FINISHED GRADE.

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

INDIVIDUAL WALL PANELS SHALL BE 5'-0" X 5'-0".

THE SOIL AT THE BASE OF THE WALL SHOULD BE REVIEWED BY SOUTHEAST REGION SOILS ENGINEER TO DETERMINE IF THE SOILS HAVE ADEQUATE STRENGTH TO SUPPORT THE MSE WALL WITH PRECAST CONCRETE PANEL FACING.

THE FILL BELOW THE WALL SHOULD BE PLACED TO THE SAME LEVEL OF COMPACTION EFFORT AS THE EMBANKMENT FILL INSIDE THE 1H:1V FROM THE SHOULDER POINT.

SOIL PARAMETERS

STRATUM LOCATIONS & SOIL DESCRIPTIONS	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL (WITHIN THE WALL REINFORCING ZONE)*	30	0	120
FILL, (BEHIND THE REINFORCEMENT ZONE)	31	0	120
BORING 1, STA 1532+70			
EL. 991.2 - EL. 984.2 (SILT, BROWN, SOME SAND, LITTLE GRAVEL)	0	2,000	120
EL. 984.2 - EL. 968.7 (SAND AND GRAVEL, FINE TO COARSE)	36	0	135
EL. 968.7 - EL. 963.7 (SAND, BROWN, SOME SILT, SOME GRAVEL)	34	0	130
EL. 963.7 - EL. 955.2 (SILT, BROWN, SOME SAND, SOME GRAVEL)	0	4,500	135
EL. 955.2 - EL. 950.7 (SAND, BROWN, SOME SILT, SOME GRAVEL)	36	0	135
BORING 2, STA 1534+00			
EL. 988.6 - EL. 978.6 (SILT AND CLAY, BROWN, SOME SAND, SOME GRAVEL)	0	2,000	120
EL. 978.6 - EL. 976.1 (SILT, GRAY TO BROWN, MOTTLED)	0	718	113
EL. 976.1 - EL. 975.1 (SILT, GRAY TO BROWN, MOTTLED)	0	3,500	130
EL. 975.1 - EL. 964.1 (GRAVEL, BROWN, FINE TO COARSE, SOME SAND, SOME SILT)	32	0	120
EL. 964.1 - EL. 962.6 (SAND, BROWN, FINE TO COARSE, LITTLE SILT, SOME GRAVEL)	36	0	135

* DESIGN WALL FOR THESE VALUES

THE TYPICAL WALL SECTION USED IN THE ANALYSES HAD AN EXPOSED HEIGHT THAT VARIED FROM 6.1 FEET TO 6.9 FEET. THE FOLLOWING ASSUMPTIONS ARE ALSO INCLUDED IN THE ANALYSES:

1. THE SLOPE BEHIND THE WALL IS HORIZONTAL.
2. THE SLOPE IN FRONT OF THE WALL IS 3H:1V.
3. THE GROUNDWATER ELEVATION WAS ASSUMED TO BE PERCHED IN THE EXISTING BORING.
4. THE GRANULAR BACKFILL IS FREE DRAINING AND WILL NOT BECOME SATURATED.
5. THE MINIMUM EMBEDMENT DEPTH IS 1.5 FEET.
6. A SURCHARGE LOAD OF 240 PSF IS INCLUDED TO MODEL PEDESTRIAN & LIGHTWEIGHT CONSTRUCTION EQUIPMENT.
7. GLOBAL STABILITY WAS DETERMINED BY THE COMPUTER PROGRAM XSTABL.
8. BEARING RESISTANCE IS DETERMINED BY TERZAGHI'S BEARING CAPACITY EQUATION.
9. SETTLEMENT OF THE FOUNDATION ON COHESIONLESS AND COHESIVE SOIL IS BASED UPON METHODS DESCRIBED IN THE FHWA SOILS AND FOUNDATIONS MANUAL.
10. DESIGN COMPLETED USING LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHODS.

WALL EXTERNAL STABILITY EVALUATION

DIMENSIONS		
WALL HEIGHT[1] (FEET)	11.8	13.5
EXPOSED WALL HEIGHT (FEET)	10.3	12.2
LENGTH OF REINFORCEMENT[2] (FEET)	9.0	10.5
LENGTH OF REIN./WALL HT.	0.77	0.77
WALL STATION	0+68.8	2+21.7
BORING USED	B-1	B-2
CAPACITY TO DEMAND RATIO (CDR)[3]		
SLIDING (CDR>1.0)	1.4	1.4
ECCENTRICITY (CDR>1.0)	1.4	1.5
BEARING (CDR>1.0)	1.1	1.1
FACTORED BEARING RESISTANCE	3100 PSF	3400 PSF
GLOBAL STABILITY (CDR>1.0)	1.2	1.4

1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 1.5 FEET.
2. THE LENGTH OF REINFORCEMENT IS THE MINIMUM REQUIRED LENGTH AT THAT LOCATION.
3. REQUIRED CDR'S AND LOAD AND RESISTANCE FACTORS ARE PRESENTED IN CHAPTER 14 OF THE BRIDGE MANUAL.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-107

DRAWN BY CAD | PLANS CK'D. ARC

QUANTITIES & NOTES

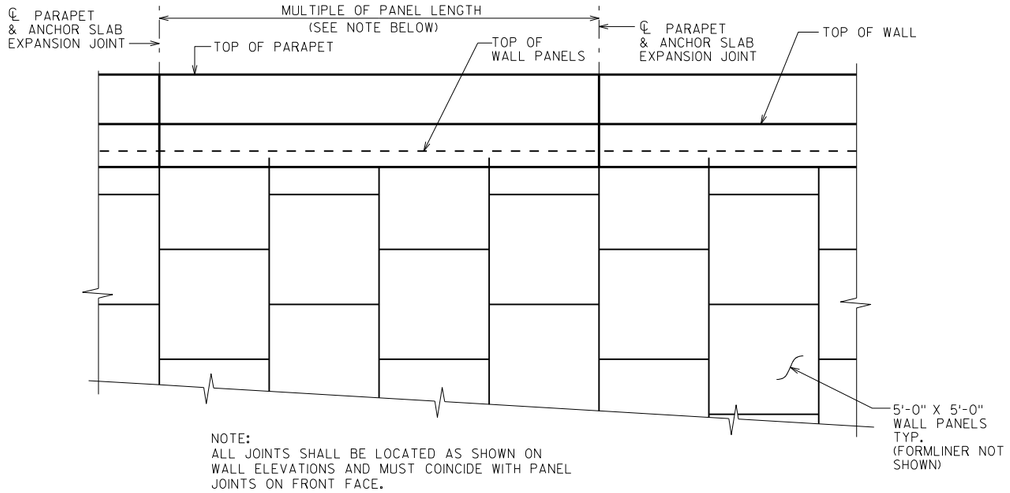
SHEET 2

800

SCALE = 6

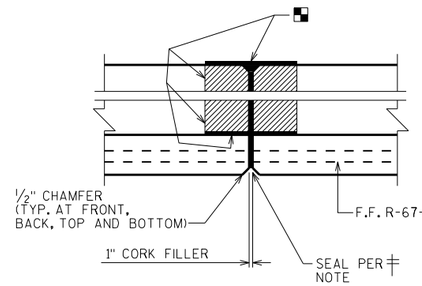
STATE PROJECT NUMBER

1330-18-70

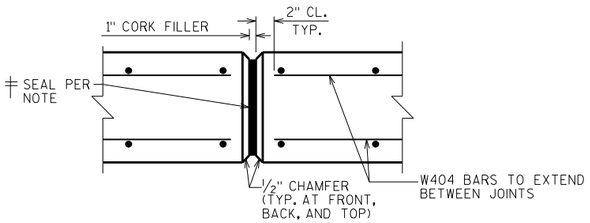


CAST-IN-PLACE PARAPET & COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL



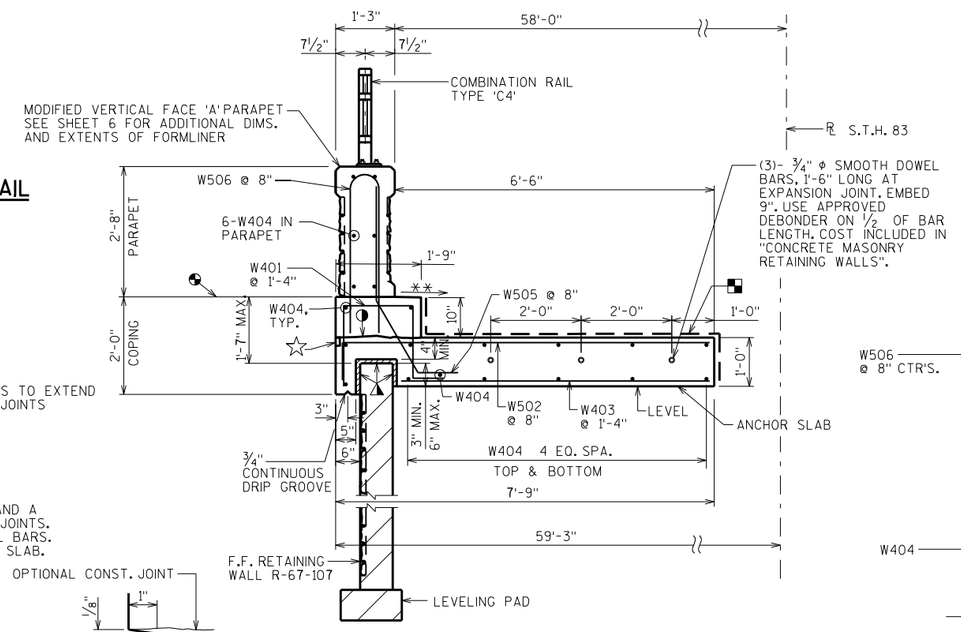
⊛ ANCHOR SLAB EXPANSION JOINT DETAIL



⊛ PARAPET EXPANSION JOINT DETAIL

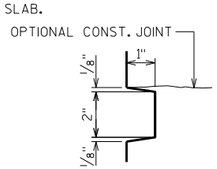
⊛ EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT. EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

╪ SEAL ALL EXPOSED HORIZ. AND VERT. SURFACES OF FILLER WITH A NON-STAINING NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)



SECTION THRU WALL

(LOOKING NORTH)



☆RUSTICATION DETAIL

(PROVIDE IF OPTIONAL CONST. JOINT IS USED)

BILL OF BARS

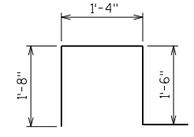
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
W401	X	264	5-0	X		CONC. COPING - TRANS. - VERT.
W502	X	526	8-0	X		CONC. ANCHOR SLAB - TRANS. - HORIZ. - TOP
W403	X	264	6-1			CONC. ANCHOR SLAB - TRANS. - HORIZ. - BTM.
W404*	X	21	348-9			LONGIT. - HORIZ.
W505	X	526	4-11	X		ANCHOR SLAB & PARAPET - TRANS. - VERT.
W506	X	526	6-5	X		PARAPET - TRANS. - VERT.
W407	X	10	9-2	X		PILASTER - HORIZ. STIRRUPS
W408	X	7**	8-0	X		PILASTER - HORIZ. STIRRUPS
W509	X	5	15'-8"**			PILASTER - VERT.
W510	X	3	9-1			PILASTER - VERT.

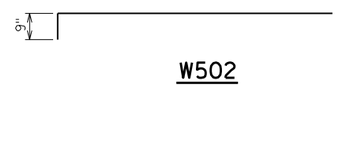
NOTE:

* THE NUMBER AND OVERALL LENGTH SHOWN FOR W404 BARS IS FOR QUANTITY PURPOSES ONLY. ACTUAL NUMBER OF BARS AND LENGTH WILL BE DEPENDENT ON THE UNKNOWN WALL PANEL CONFIGURATION AS WELL AS THE EXPANSION JOINT LOCATIONS.

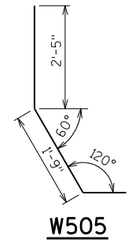
** NO. REQ'D OF W408 BARS AND LENGTH SHOWN FOR W509 BARS WILL BE DEPENDENT ON THE BOTTOM OF WALL ELEVATION DETERMINED BY THE RETAINING WALL MANUFACTURER. ADJUST VALUES SHOWN AS REQ'D.



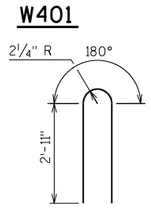
W401



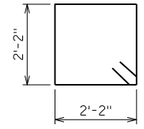
W502



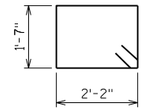
W505



W506



W407



W408

LEGEND

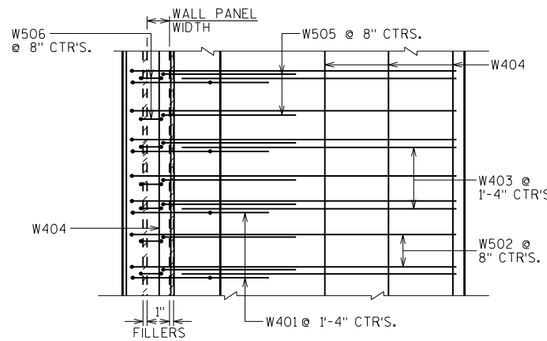
◭ EXPANDED POLYSTYRENE (1 INCH) TYPICAL OF EACH SIDE

◑ OPT. CONST. JOINT, LEAVE SURFACE ROUGHENED. PROVIDE RUSTICATION IF USED. SEE 'RUSTICATION DETAIL'. IF OPT. CONST. JOINT IS USED, PLACE 18" MEMBRANE WATERPROOFING ALONG THE ENTIRE LONGITUDINAL JOINT. THE MEMBRANE WATERPROOFING SEALING OF THE OPT. CONST. JOINT IS INCIDENTAL TO BID ITEM "CONCRETE MASONRY RETAINING WALLS".

◒ TOP OF WALL ELEVATION

** SLOPE TO MATCH ROADWAY CROSS-SECTIONS

◪ 18" RUBBERIZED MEMBRANE WATERPROOFING TO BE PLACED ON THESE SURFACES AT EACH JOINT.



PARTIAL ANCHOR SLAB REINF. PLAN

NOTE: NOT ALL LONGITUDINAL BARS SHOWN IN THIS PLAN.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-107

DRAWN BY CAD | PLANS CK'D. ARC

WALL DETAILS

SHEET 3

801

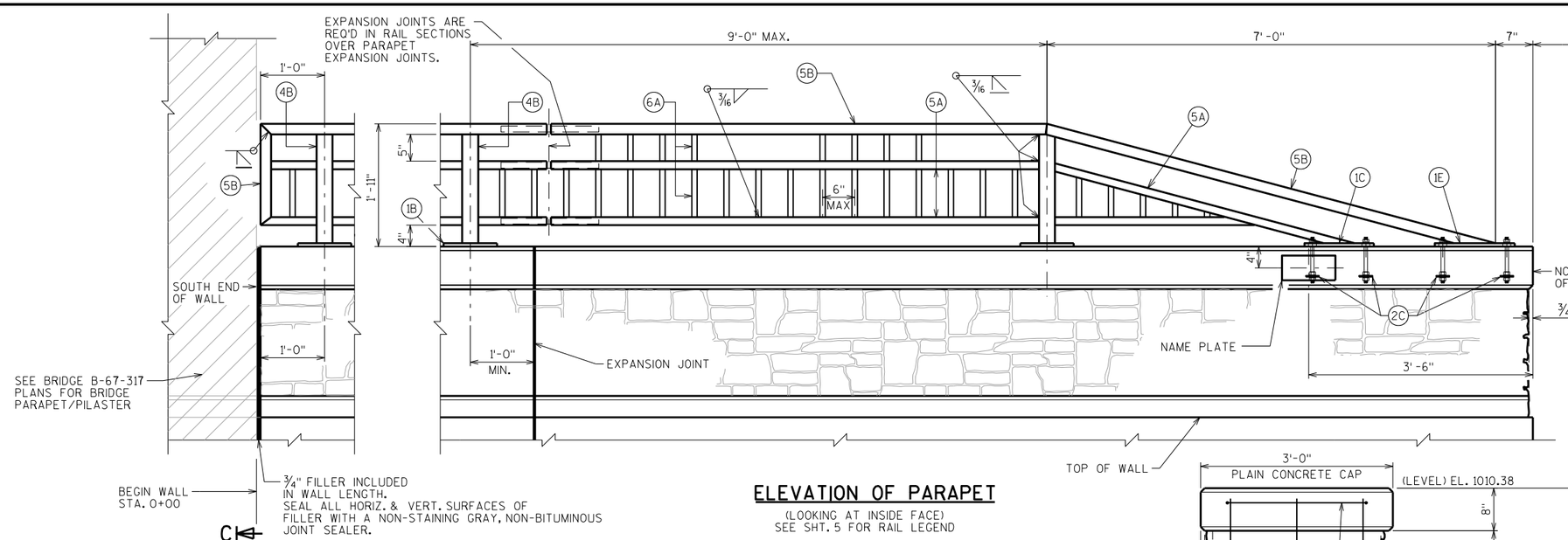
SCALE = 6

8

8

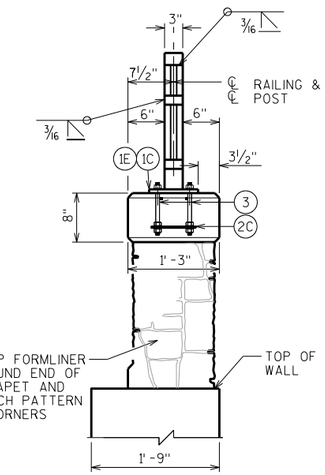
STATE PROJECT NUMBER

1330-18-70

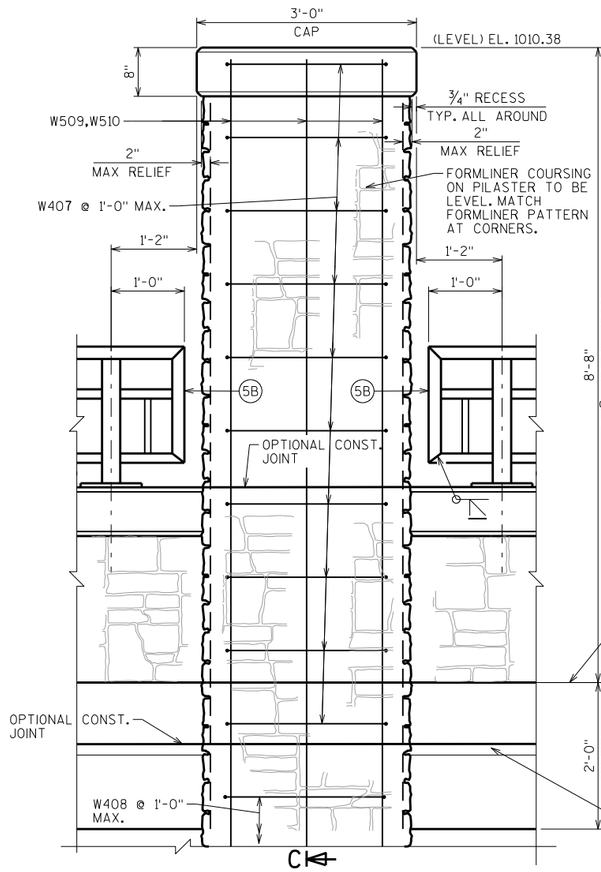


ELEVATION OF PARAPET

(LOOKING AT INSIDE FACE)
SEE SHT. 5 FOR RAIL LEGEND

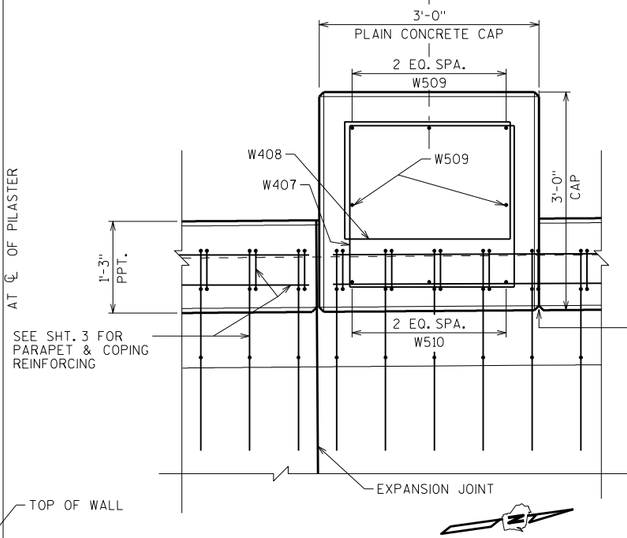


END VIEW

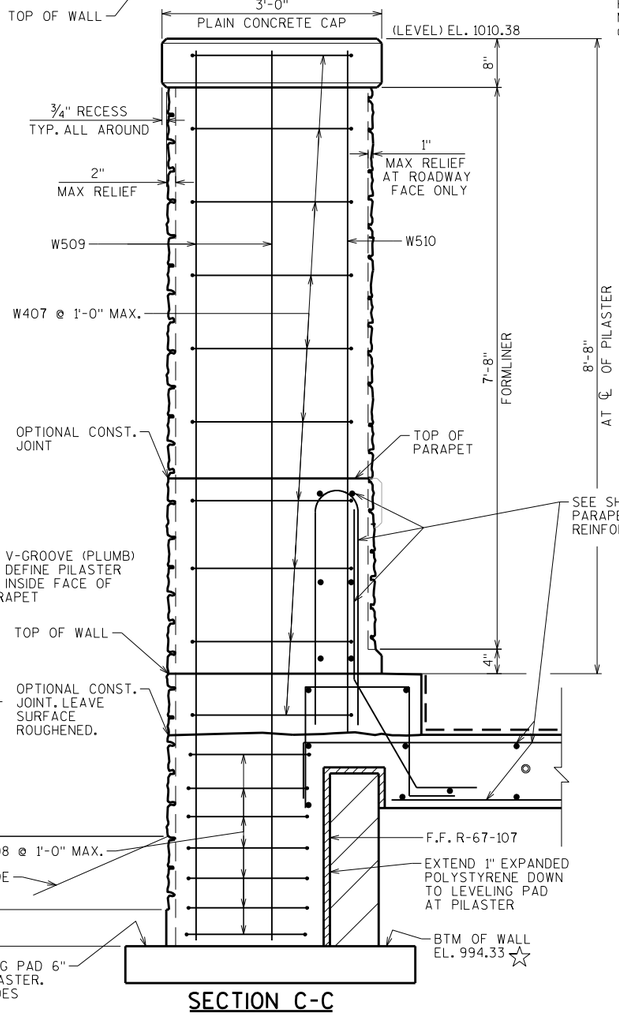


ELEVATION OF PILASTER

(LOOKING AT OUTSIDE FACE)



PILASTER PLAN



SECTION C-C

⚠ LIMIT OF ARCHITECTURAL SURFACE TREATMENT AND CONCRETE STAINING MULTI-COLOR.

☆ ELEVATION NOTED IS BASED ON A 1'-6" MIN. WALL EMBEDMENT BELOW FINISHED GRADE. THE NUMBER OF W408 BARS AND LENGTH OF W509 BARS WILL BE DEPENDENT ON THE BOTTOM OF WALL ELEVATION DETERMINED BY THE RETAINING WALL MANUFACTURER. SEE 'BILL OF BARS' ON SHT. 3

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-107

DRAWN BY	CAD	PLANS CK'D.	ARC

COMBINATION RAIL TYPE "C4"

SHEET 4

802

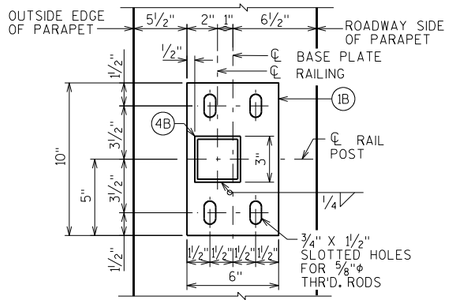
SCALE = 1.000

1 2 3 4 8 11

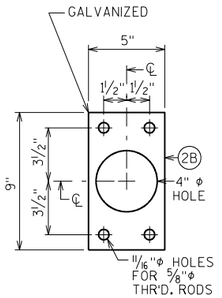
RAILCOMB
7-11

STATE PROJECT NUMBER

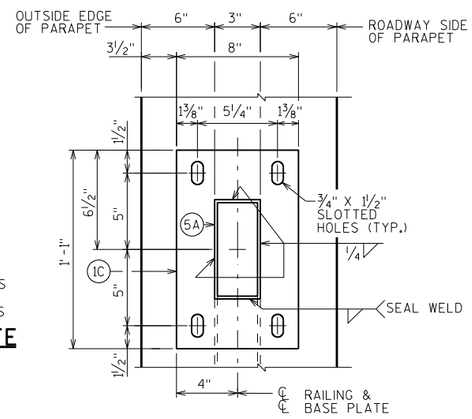
1330-18-70



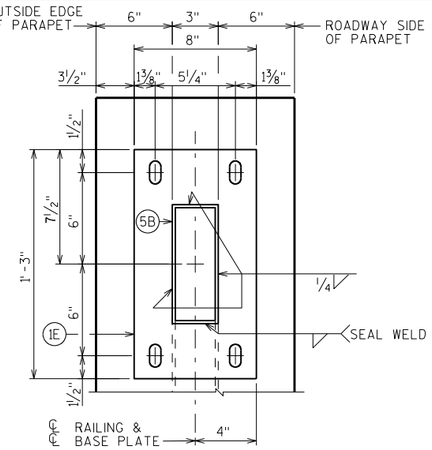
TYPICAL RAIL POST BASE PLATE



ANCHOR PLATE



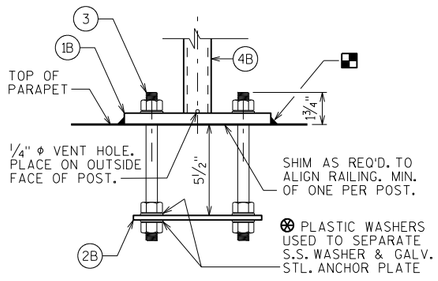
END RAIL BASE PLATE



END RAIL BASE PLATE

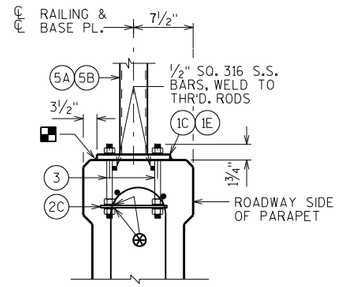
LEGEND

- (1B) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES
- (1C) PLATE ⅝" X 8" X 1'-1" WITH ¾" X 1½" SLOTTED HOLES.
- (1E) PLATE ⅝" X 8" X 1'-3" WITH ¾" X 1½" SLOTTED HOLES
- (2B) ¼" X 5" X 9" ANCHOR PLATE WITH 11/16" φ HOLES FOR THR'D. RODS NO. 3.
- (2C) ¼" X 2½" X 7¼" ANCHOR PLATE WITH 11/16" φ HOLES FOR THR'D. RODS NO. 3.
- (3) ⅝" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), ⅝" φ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS AND 5" FOR END RAILS.)
- (4B) STRUCTURAL TUBING 3" X 3" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 5.
- (5A) STRUCTURAL TUBING 3" X 1½" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- (5B) STRUCTURAL TUBING 3" X 2" X 3/16" RAILS. WELD TO NO. 1 & NO. 4. INSIDE OF TUBE TO BE PAINTED AT ALL FIELD ERECTION & EXPANSION JOINTS.
- (6A) BAR 1" X 1" PICKETS. WELD TO NO. 5. PLACE VERTICAL.
- (9A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. PROVIDE "SLIDING FIT".
- (10A) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. (1'-4")



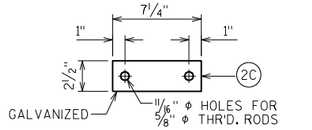
ANCHORAGE FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



ANCHORAGE FOR END RAIL

NOTE: ANCHOR PLATES NOT REQ'D. WHEN TYPE "S" ANCHORS ARE USED.



END RAIL ANCHOR PLATE

FOR END RAIL BASE PLATES
2 REQ'D. PER END RAIL BASE PLATE

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL TYPE C4 GALVANIZED R-67-107", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

NO. 1, 2, 6, 9, AND NO. 10 SHALL CONFORM TO ASTM A709 GRADE 36. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500 GRADE B (NO. 4 AND NO. 5).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

■ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1, AND FILL BOLT SLOT OPENINGS IN SHIMS AND BASE PLATES WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

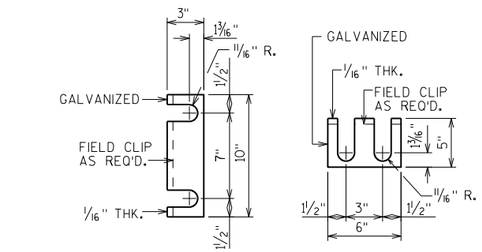
ALL JOINTS AND RECESSES IN CONCRETE PARAPET ARE TO BE VERTICAL.

ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS. PAINT OVER GALVANIZING WITH AN APPROVED TIE COAT AND TOP COAT AS SPECIFIED IN THE "BRIDGE SPECIAL PROVISIONS". THE RAILING SHALL BE PAINTED FEDERAL COLOR NO. 34066, DARK GREEN.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

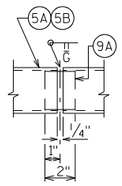
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

TOUCH-UP PAINTING TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.



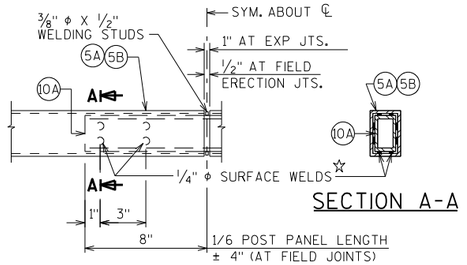
RAIL POST SHIM DETAIL

(2 SETS PER POST)



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)

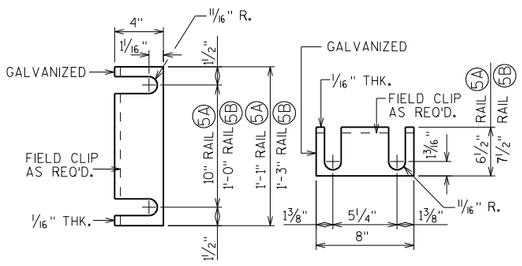


SECTION A-A

FIELD ERECTION/EXP. JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

NOTE: EXPANSION JOINTS ARE REQUIRED IN RAIL SECTIONS OVER ANCHOR SLAB & PARAPET EXPANSION JOINTS.



END RAIL SHIM DETAIL

(2 SETS PER POST)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-107

DRAWN BY CAD | PLANS CK'D. ARC

COMBINATION RAIL TYPE "C4" DETAILS

SHEET 5

803

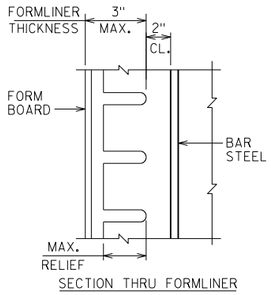
SCALE = 1.000

RAILCOMBDET 1-12

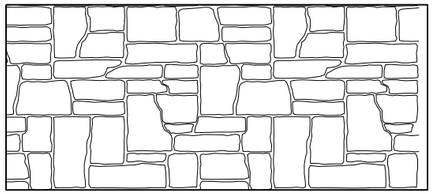
8 11 8 1234

STATE PROJECT NUMBER

1330-18-70



SECTION THRU FORMLINER



RUSTIC ASHLAR
SIZE = 8" TO 32"
MAX RELIEF = 2" @ WALL PANELS & PARAPET (WALL FACE)
1" @ PARAPET (ROADWAY FACE)

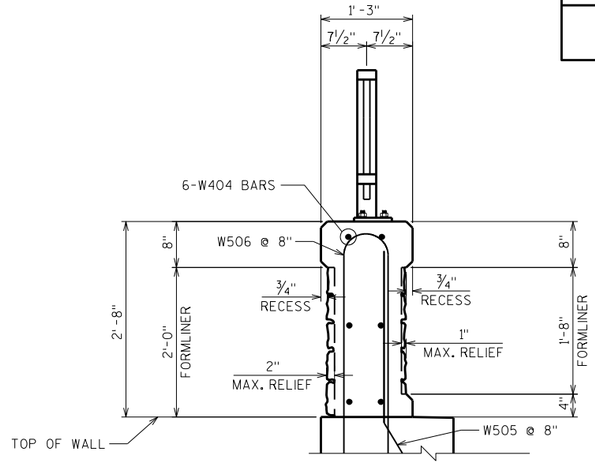
FORMLINER DETAILS

NOTES:

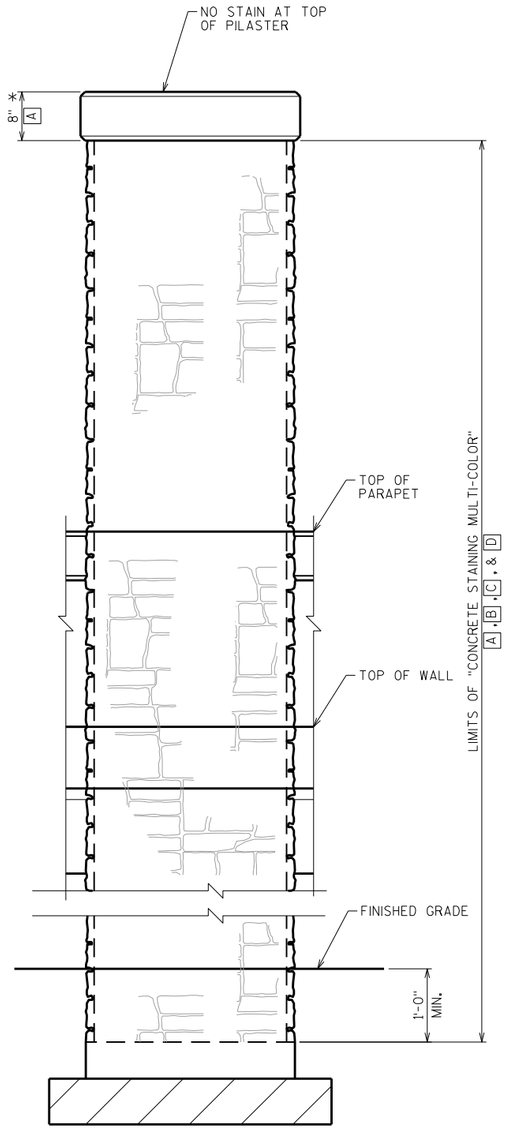
FORMLINER COURSING ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.

FORMLINER COURSING ON WALL SHALL BE LEVEL.

THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS WALL PANEL JOINTS.

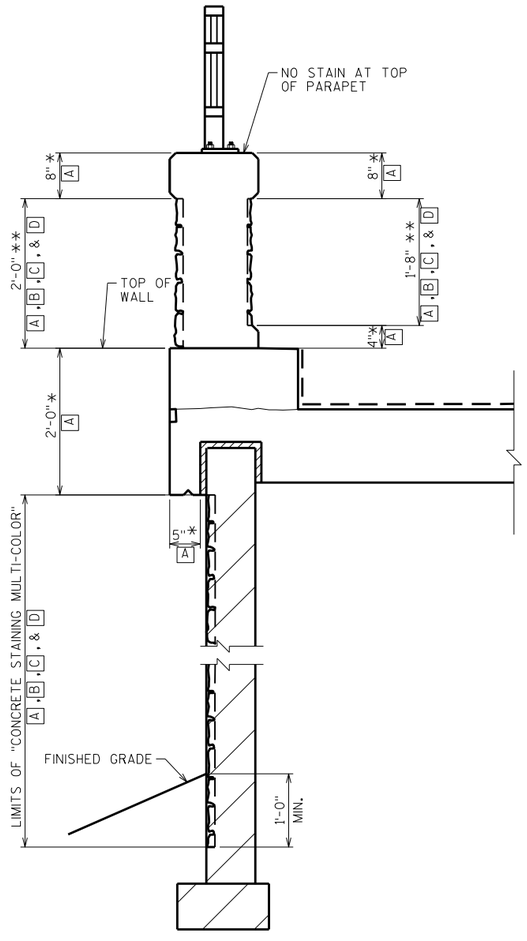


MODIFIED VERTICAL FACE 'A' PARAPET



CONCRETE STAINING ON PILASTER

(LOOKING AT OUTSIDE FACE)



CONCRETE STAINING DETAILS

MARK	COLOR	NOTES
A	BASE COLOR	FEDERAL COLOR NO. 30227
B	ACCENT COLOR #1	FEDERAL COLOR NO. 30122 - 25% OF "ASHLAR" STONES
C	ACCENT COLOR #2	FEDERAL COLOR NO. 30140 - 60% OF "ASHLAR" STONES
D	ACCENT COLOR #3	FEDERAL COLOR NO. 30111 - 15% OF "ASHLAR" STONES

NOTES:

"ASHLAR" STONE SURFACES SHALL BE STAINED IN A RANDOMLY MIXED COLOR ARRANGEMENT ACCORDING TO THE PERCENTAGES ABOVE.

RECESSED "MORTAR" JOINTS SHALL BE STAINED THE BASE COLOR.

THE FINAL COLOR OF THE CONCRETE SHALL MATCH THE FEDERAL STANDARD COLORS LISTED OR SIMILAR COLORS APPROVED BY THE ENGINEER.

* = "CONCRETE STAINING"

** = "CONCRETE STAINING MULTI-COLOR"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-107

DRAWN BY CAD | PLANS CK'D. ARC

AESTHETIC DETAILS

SHEET 6

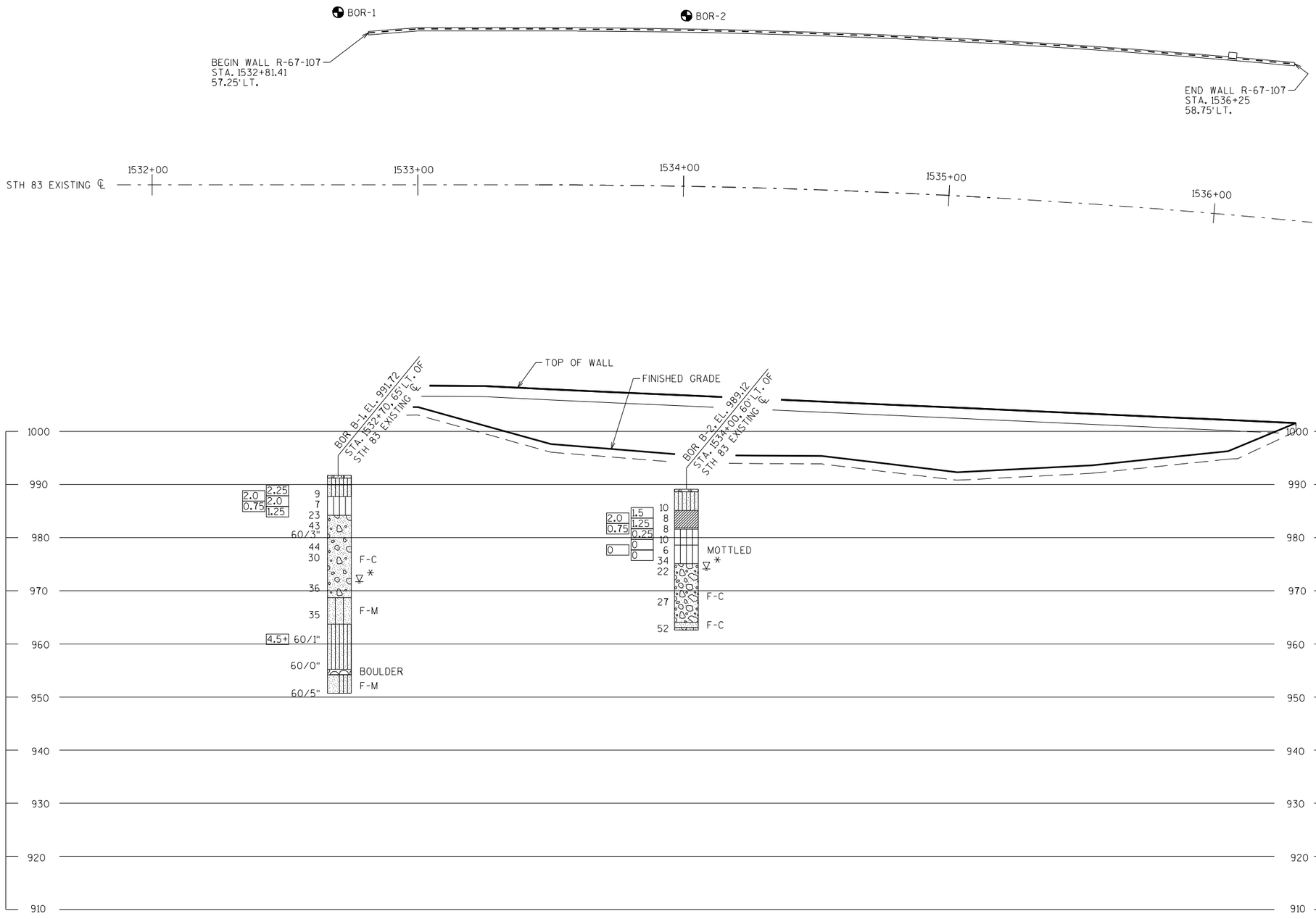
804

SCALE = 1.000

8

8

WALES ROAD (STH 83)
PERKINS RD - GLACIER PASS (N OF USH 18)



* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

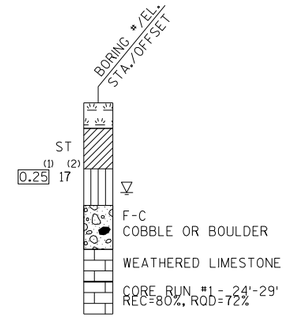
STATE PROJECT NUMBER

1330-18-70

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- ▽ AT TIME OF DRILLING
- ▼ END OF DRILLING
- ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-67-107

DRAWN BY CAD | PLANS CK'D. ARC

SUBSURFACE EXPLORATION

SHEET 7

805

SCALE =

8

8

Stage 1
STH 83

Station	Distance	Cut Area (Sq.ft.)	Salvaged/Unusable Pavement Material (Sq. ft.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
1512+25.00		231.68	--	--	--	0	0	0	0	0	0	0
1512+50.00	25.00	202.64	--	--	--	201.07	201.07	0	0	201.07	201.07	0
1513+00.00	50.00	162.21	--	--	--	337.82	337.82	0	0	538.9	538.89	0.01
1513+50.00	50.00	173.38	--	--	--	310.73	310.73	0	0	849.63	849.62	0.01
1514+00.00	50.00	166.6	--	--	--	314.8	314.8	0	0	1164.43	1164.42	0.01
1514+50.00	50.00	127.03	--	--	--	271.89	271.88	0	0	1436.31	1436.3	0.01
1515+00.00	50.00	47.04	--	--	--	161.18	161.18	1.08	1	1597.49	1597.48	1.01
1515+47.84	47.84	16.38	--	--	--	56.19	56.19	17.13	16.13	1653.68	1653.67	17.14
1515+50.00	2.16	15.29	--	--	--	1.27	1.27	14.48	1.26	1654.95	1654.94	18.4
1515+75.00	25.00	11.69	--	--	--	12.49	12.49	0.79	7.07	1667.43	1667.43	25.47
1515+88.96	13.96	17.11	--	--	--	7.44	7.45	0	0.21	1674.88	1674.88	25.68
1515+89.00	0.04	17.14	--	--	--	0.02	0.03	0	0	1674.9	1674.91	25.68
1516+00.00	11.00	19.15	--	--	--	7.39	7.39	0	0	1682.3	1682.3	25.68
1516+25.00	25.00	20.59	--	--	--	18.4	18.4	20.73	9.6	1700.69	1700.7	35.28
1516+16.40	-8.60	19.21	--	--	--	1.03	0	21.92	1.11	1701.73	1694.36	36.38
1516+27.00	10.60	18.56	--	--	--	0.42	7.41	22.27	0.49	1702.15	1701.77	36.87
1516+50.00	23.00	11.53	--	--	--	12.82	12.82	21.2	18.51	1714.96	1714.59	55.39
1517+00.00	50.00	20.25	--	54.61	--	29.43	29.43	14.45	33.01	1744.4	1744.02	88.39
1517+50.00	50.00	30.29	--	54.13	101.00	46.8	46.8	9.53	22.2	1791.19	1790.82	110.6
1518+00.00	50.00	63.24	--	55.37	102.00	86.6	86.6	1.99	10.67	1877.79	1877.42	121.26
1518+50.00	50.00	85.23	--	56.46	104.00	137.47	137.47	4.7	6.2	2015.27	2014.89	127.46
1519+00.00	50.00	17.84	--	56.19	105.00	95.44	95.44	23.47	26.09	2110.71	2110.33	153.55
1519+50.00	50.00	6.11	--	57.64	106.00	22.17	22.18	32.75	52.06	2132.88	2132.51	205.62
1520+00.00	50.00	29.57	--	56.93	107.00	33.04	33.04	2.12	32.29	2165.92	2165.55	237.91
1520+50.00	50.00	8.83	--	56.25	105.00	35.55	35.56	71.49	68.15	2201.47	2201.11	306.06
1521+00.00	50.00	9.59	--	56.00	104.00	17.05	17.06	73.69	134.42	2218.52	2218.17	440.49
1521+50.00	50.00	12.02	--	56.40	105.00	20.01	20.01	88.15	149.85	2238.53	2238.18	590.34
1522+00.00	50.00	7.55	--	56.67	105.00	18.12	18.12	162.51	232.09	2256.65	2256.3	822.44
1522+25.00	25.00	6.35	--	--	--	6.43	6.44	184.57	160.69	2263.09	2262.74	983.12
1522+50.00	25.00	277.06	--	--	--	131.21	131.21	155.31	157.35	2394.29	2393.95	1140.47
1522+75.00	25.00	303.77	--	--	--	268.9	268.9	165.82	148.67	2663.2	2662.85	1289.15
1523+00.00	25.00	333.5	--	--	--	295.03	295.03	176.29	158.38	2958.23	2957.88	1447.53
1523+25.00	25.00	357.88	--	--	--	320.08	320.08	181.77	165.77	3278.31	3277.96	1613.3
1523+50.00	25.00	244.42	--	--	--	278.85	278.84	192.5	173.27	3557.15	3556.8	1786.58
1523+66.56	16.56	6.66	--	--	--	77.02	77	179.34	114.07	3634.18	3633.8	1900.64
1524+00.00	33.44	7.31	--	--	--	8.65	8.65	169.94	216.26	3642.83	3642.45	2116.9
1524+50.00	50.00	20.05	--	--	--	25.34	25.33	72.12	224.13	3668.17	3667.78	2341.03
1525+00.00	50.00	14.28	--	--	--	31.79	31.79	38.87	102.77	3699.96	3699.57	2443.8
1525+50.00	50.00	13.33	--	--	--	25.56	25.56	28.95	62.79	3725.52	3725.13	2506.59
1526+00.00	50.00	19.32	--	--	--	30.23	30.23	37.41	61.45	3755.75	3755.36	2568.04
1526+50.00	50.00	39.64	--	--	--	54.59	54.59	6.77	40.9	3810.34	3809.95	2608.94
1527+00.00	50.00	204.36	--	--	--	225.93	225.93	0	6.26	4036.27	4035.88	2615.21
1527+19.40	19.40	206.68	--	--	--	147.71	147.67	0.28	0.1	4183.98	4183.55	2615.31
1527+20.00	0.60	205.67	--	--	--	4.54	4.58	0.36	0	4188.52	4188.13	2615.32
1527+25.00	5.00	194.91	--	--	--	37.09	37.09	0.48	0.08	4225.61	4225.22	2615.39
1527+50.00	25.00	111.51	--	--	--	141.86	141.86	1.86	1.08	4367.47	4367.08	2616.48
1527+75.00	25.00	92.28	--	--	--	94.35	94.35	0	0.86	4461.82	4461.43	2617.34
1527+79.97	4.97	84.7	--	--	--	16.28	16.29	0	0	4478.1	4477.72	2617.34
1527+80.00	0.03	84.76	--	--	--	0.1	0.09	0	0	4478.2	4477.81	2617.34
1528+00.00	20.00	111.27	--	--	--	72.61	72.6	0	0	4550.81	4550.41	2617.34
1528+12.00	12.00	114.57	--	--	--	50.19	50.19	0	0	4601	4600.6	2617.34
1528+12.05	0.05	114.67	--	--	--	0.21	0.21	0	0	4601.21	4600.81	2617.34
1528+23.00	10.95	133.97	--	--	--	50.42	50.42	0	0	4651.63	4651.23	2617.34

Stage 1
Criglass Rd

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
50+82.	21.6	0	0	0.08	0	0	0	0	0
51+00.	6.02	9.21	9.21	2.39	0.83	9.21	9.21	0.83	8.38
51+25.	22.69	13.29	13.29	8.31	4.96	22.5	22.5	5.78	16.72
51+50.	8.01	14.22	14.22	15.93	11.23	36.72	36.72	17.01	19.71
51+55.	5.9	1.29	1.29	15.76	2.93	38	38	19.94	18.06
51+60.	13.39	1.79	1.79	15.05	2.85	39.79	39.79	22.8	16.99
51+75.	11.87	7.02	7.02	0	4.18	46.81	46.81	26.98	19.83
51+85.	2.49	2.66	2.66	0	0	49.47	49.47	26.98	22.49

Stage 1
Cymric Ct

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
48+75.	7.05	0	0	0	0	0	0	0	0
49+00.	73.39	37.24	37.24	1.13	0.52	37.24	37.24	0.52	36.72
49+15.	104.16	49.32	49.32	0	0.31	86.56	86.56	0.84	85.72
49+20.	132.26	21.89	21.89	0	0	108.45	108.45	0.84	107.61
49+32.64	124.03	59.98	59.98	3.84	0.9	168.43	168.43	1.74	166.69
49+50.	43.74	53.94	53.94	0	1.23	222.37	222.37	2.97	219.4
49+54.	7.32	3.78	3.78	0	0	226.15	226.15	2.97	223.18

Stage 2
STH 83

Station	Distance	Salvaged/Unusable Pavement Material (Cu.yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)
615+00			--	--	14.74	0	0	0	0	0	0
615+50	50.00	2.78	--	--	18.29	30.58	27.81	0	0	30.58	27.81
616+00	50.00	2.78	--	--	30.49	45.17	42.39	0.47	0.43	75.75	70.2
616+50	50.00	2.78	--	--	33.43	59.19	56.41	0.23	0.64	134.94	126.61
617+00	50.00	2.78	--	--	46.93	74.41	71.63	0	0.21	209.34	198.24
617+50	50.00	2.78	--	--	33.49	74.47	71.69	0.95	0.88	283.81	269.93
618+00	50.00	2.78	--	--	30.9	59.63	56.84	1.35	2.13	343.44	326.77
618+50	50.00	2.78	--	--	28.82	55.3	52.52	1.04	2.21	398.74	379.29
619+00	50.00	2.78	--	--	29.35	53.86	51.08	0.15	1.09	452.6	430.37
619+50	50.00	2.78	--	--	52.57	75.85	73.07	0	0.13	528.46	503.44
620+00	50.00	2.78	--	--	46.59	91.82	89.04	0	0	620.28	592.48
620+50	50.00	2.78	--	--	42.52	82.51	79.73	0.05	0.05	702.79	672.21
621+00	50.00	2.78	--	--	33.05	69.97	67.19	0.23	0.26	772.76	739.4
621+50	50.00	2.78	--	--	38.7	66.44	63.66	0.41	0.59	839.2	803.06
622+00	50.00	2.78	--	--	43.9	76.49	73.7	0.27	0.63	915.68	876.76
622+50	50.00	2.78	--	--	40.12	77.8	75.02	0	0.25	993.48	951.78
623+00	50.00	2.78	--	--	72.76	104.52	101.74	0	0	1098	1053.52
623+50	50.00	2.78	--	--	85.71	146.73	143.95	0	0	1244.73	1197.47
624+00	50.00	2.78	--	--	80.29	153.7	150.93	0	0	1398.44	1348.4
624+50	50.00	2.78	--	--	73.84	142.71	139.94	0	0	1541.15	1488.34
625+00	50.00	9.72	--	--	77.72	140.33	130.61	0	0	1681.47	1618.95
625+50	50.00	17.59	--	--	48.02	116.42	98.83	2.61	2.42	1797.89	1717.78
626+00	50.00	20.37	--	--	33.36	75.36	54.98	1.89	4.16	1873.25	1772.76
626+50	50.00	25	--	--	49.38	76.61	51.61	0	1.75	1949.86	1824.37
627+00	50.00	27.78	--	--	85.25	124.66	96.88	0	0	2074.52	1921.25
627+50	50.00	27.78	--	--	54.78	129.66	101.88	0	0	2204.17	2023.13
628+00	50.00	27.78	58.70	--	45.45	92.81	65.03	0	0	2296.98	2088.16
628+50	50.00	27.78	58.70	109.00	111.62	145.43	117.66	0	0	2442.41	2205.82
629+00	50.00	27.78	58.69	109.00	175.34	265.7	237.93	0	0	2708.11	2443.75
629+50	50.00	27.78	58.69	109.00	149.74	301	273.22	0	0	3009.11	2716.97
630+00	50.00	27.78	58.69	109.00	78.2	211.06	183.28	3.75	3.47	3220.17	2900.25
630+50	50.00	27.78	60.14	111.00	31.64	101.71	73.93	2.51	5.8	3321.87	2974.18
631+00	50.00	27.78	65.45	117.00	29.46	56.44	28.8	47	46.03	3378.31	3002.98
631+50	50.00	27.78	72.27	128.00	12.5	39.06	11.07	89.35	126.72	3417.37	3014.05
632+00	50.00	30.56	77.92	140.00	5.51	16.89	0	93.98	170.23	3434.27	3000.17
632+50	50.00	38.89	81.51	148.00	4.98	9.65	0	33.83	118.32	3443.92	2970.99
632+75	25.00	22.22	81.51	76.00	5.11	4.67	0	35.55	32.12	3448.59	2953.44
632+76	0.89	0.79	82.95	3.00	5.01	0.17	0	40.25	1.25	3448.76	2952.82
633+00	24.11	21.43	82.95	75.00	0.02	2.25	0	32.07	32.29	3451	2933.63
633+50	50.00	44.44	--	--	20.11	18.54	0	0	29.24	3469.54	2907.82
633+92	42.00	37.33	--	--	14.53	26.71	0	6.24	4.79	3496.25	2897.43
633+92	0.22	0.2	--	--	14.51	0.12	0	6.09	0.05	3496.37	2897.35
634+00	7.78	6.34	--	--	22.63	5.35	0	3.74	1.42	3501.72	2896.36
634+50	50.00	32.41	--	--	37.65	54.94	23.41	6.01	8.96	3556.66	2919.77
635+00	50.00	30.56	--	--	63.98	92.68	63.55	0	5.52	3649.34	2983.32
635+50	50.00	27.78	--	--	92.3	142.55	116.93	0	0	3791.88	3100.25
636+00	50.00	21.3	--	--	117.94	191.7	173.37	0	0	3983.58	3273.62
636+50	50.00	18.52	--	--	125.13	221.72	206.55	0	0	4205.3	3480.17
637+00	50.00	16.67	--	--	124.44	231.08	214.42	0	0	4436.38	3694.59
637+50	50.00	16.67	--	--	129.72	235.33	218.67	0	0	4671.71	3913.26
638+00	50.00	16.67	--	--	55.55	171.55	154.88	0	0	4843.26	4068.14
638+50	50.00	9.72	--	--	21.26	71.12	61.4	0.02	0.02	4914.38	4129.54
639+00	50.00	2.78	--	--	21.6	39.69	36.91	0.02	0.04	4954.07	4166.45
639+50	50.00	2.78	--	--	22.34	40.69	37.91	0.11	0.12	4994.76	4204.36
640+00	50.00	2.78	--	--	21.81	40.88	38.1	0.2	0.29	5035.64	4242.46
640+50	50.00	5.09	--	--	20.73	39.39	34.3	0.82	0.95	5075.03	4276.76
641+00	50.00	8.33	--	--	11.63	29.96	21.63	0	0.76	5105	4298.39
641+50	50.00	9.26	--	--	15.15	24.8	15.54	1.21	1.12	5129.8	4313.93
642+00	50.00	9.26	--	--	19.12	31.73	22.47	5.07	5.82	5161.53	4336.4
642+50	50.00	10.19	--	--	25.29	41.12	30.94	6.27	10.5	5202.65	4367.34
643+00	50.00	11.11	--	--	31.83	52.89	41.78	0	5.81	5255.54	4409.12
643+26	26.00	5.78	--	--	31.42	30.46	24.68	2.55	1.23	5286	4433.8
643+26	0.23	0.05	--	--	30.31	0.27	0.21	3.45	0.03	5286.27	4434.01
643+50	23.77	5.28	--	--	47.74	34.35	29.07	6.53	4.39	5320.62	4463.08
644+00	50.00	11.11	--	--	0	44.2	33.09	0	6.05	5364.82	4496.17
644+50	50.00	11.11	--	--	45.57	42.2	31.08	0.76	0.7	5407.02	4527.25
644+55	5.00	1.11	--	--	42.36	8.14	7.03	1.17	0.18	5415.16	4534.28
644+56	0.91	0.2	--	--	40.73	1.39	1.19	1.29	0.04	5416.55	4535.47
645+00	44.09	9.8	--	--	41.7	67.31	57.51	0	1.05	5483.86	4592.98
645+50	50.00	11.11	--	--	30.6	66.94	55.83	0	0	5550.81	4648.81
646+00	50.00	11.11	--	--	0	28.33	17.22	0	0	5579.14	4666.03

Stage 2
STH 83

Station	Distance	Salvaged / Unusable Pavement Material (Cu. yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
1459+00.		0	47.75		21.99	0	0	89.91	0	0	0	0	0
1459+50.	50.00	9.26	47.75	89.00	21.96	40.7	31.44	22.16	103.76	40.7	31.44	103.76	-63.07
1460+00.	50.00	9.26	47.75	89.00	30.98	49.03	39.76	8.19	28.1	89.72	71.2	131.86	-42.14
1460+50.	50.00	9.26	47.75	89.00	32.3	58.6	49.33	7.43	14.46	148.32	120.53	146.32	2
1461+00.	50.00	9.26	47.75	89.00	26.51	54.46	45.19	6.28	12.69	202.78	165.72	159.01	43.77
1461+50.	50.00	9.26	47.75	89.00	22.25	45.15	35.89	8.2	13.4	247.93	201.61	172.42	75.51
1462+00.	50.00	9.26	47.75	89.00	16.25	35.65	26.39	86.54	87.72	283.57	228	260.14	23.43
1462+00.	0.00	0	--		0	0	0	0	0	283.57	228	260.14	23.43
1462+50.	50.00	9.26	--		14.91	13.81	4.55	234.23	216.88	297.38	232.55	477.02	-179.64
1463+00.	50.00	9.26	--		15.28	27.96	18.69	270.18	467.05	325.34	251.24	944.07	-618.74
1463+50.	50.00	9.26	--		12.93	26.12	16.86	138.24	378.17	351.46	268.1	1322.24	-970.78
1464+00.	50.00	9.26	--		15.86	26.65	17.4	61.56	185	378.11	285.5	1507.24	-1129.13
1464+08.	8.00	1.48	--		14.77	4.54	3.06	45.01	15.79	382.65	288.56	1523.03	-1140.38
1464+08.	0.00	0	--		0	0	0	0	0	382.65	288.56	1523.03	-1140.38
1464+50.	42.00	7.78	--		44	34.22	26.44	3.02	2.35	416.87	315	1525.38	-1108.51
1465+00.	50.00	9.26	--		146.75	176.62	167.36	5.66	8.04	593.49	482.36	1533.41	-939.93
1465+50.	50.00	8.33	--		182.89	305.22	296.89	8.69	13.29	898.71	779.25	1546.7	-647.99
1466+00.	50.00	7.41	--		116.64	277.35	269.94	12.44	19.57	1176.06	1049.19	1566.27	-390.21
1466+50.	50.00	5.56	--		32.27	145.75	132.32	24.7	35.4	1321.8	1181.51	1601.66	-279.86
1467+00.	50.00	2.78	--		0.33	31.69	27.41	69.68	90.68	1353.5	1208.92	1692.35	-338.85
1467+50.	50.00	1.85	--		0.8	1.06	1.06	152.1	215.02	1354.55	1209.98	1907.37	-552.81
1468+00.	50.00	--	--		3.44	3.97	3.97	220.31	363.17	1358.52	1213.95	2270.53	-912.02
1468+50.	50.00	--	--		9.54	12.18	12.18	169.56	380.84	1370.7	1226.13	2651.38	-1280.68
1469+00.	50.00	--	--		349.24	359.82	359.82	7.54	172.86	1730.52	1585.95	2824.24	-1093.72
1469+50.	50.00	--	--		316.33	667.65	667.65	9.33	16.44	2398.17	2253.6	2840.68	-442.51
1470+00.	50.00	--	--		319.88	631.21	631.21	0.02	9.13	3029.38	2884.81	2849.8	179.58
1470+50.	50.00	--	--		53.03	364.49	364.49	169.32	166.96	3393.87	3249.3	3016.76	377.11
1471+00.	50.00	--	--		53.26	100.55	100.55	119.18	283.26	3494.43	3349.85	3300.02	194.41
1471+50.	50.00	--	--		180.38	225.29	225.29	0.63	116.92	3719.72	3575.14	3416.94	302.78
1472+00.	50.00	--	--		310.37	474.88	474.88	0	0.61	4194.6	4050.02	3417.55	777.06
1472+50.	50.00	--	--		241.08	532.46	532.46	0	0	4727.06	4582.48	3417.55	1309.51
1473+00.	50.00	--	--		211.75	435.73	435.73	0	0	5162.79	5018.21	3417.55	1745.24
1473+50.	50.00	--	--		195.58	383.69	383.69	0	0	5546.48	5401.9	3417.55	2128.93
1473+83.33	33.33	--	--		188.21	236.91	236.91	0	0	5783.39	5638.81	3417.55	2365.84
1473+83.33	0.00	--	--		0	0	0	0	0	5783.39	5638.81	3417.55	2365.84
1474+00.	16.67	--	--		220.24	67.97	67.97	0	0	5851.36	5706.78	3417.55	2433.82
1474+25.	25.00	--	--		165.45	178.56	178.56	0	0	6029.93	5885.34	3417.55	2612.38
1474+28.01	3.01	--	--		154.58	17.86	17.86	0	0	6047.79	5903.2	3417.55	2630.24
1474+28.01	0.00	--	--		0	0	0	0	0	6047.79	5903.2	3417.55	2630.24
1474+50.	21.99	--	--		217.37	88.5	88.5	0	0	6136.29	5991.7	3417.55	2718.74
1474+73.56	23.56	--	--		193.74	179.35	179.35	0	0	6315.64	6171.05	3417.55	2898.1
1474+73.56	0.00	--	--		0	0	0	0	0	6315.64	6171.05	3417.55	2898.1
1475+00.	26.44	--	--		176.43	86.39	86.39	0	0	6402.03	6257.44	3417.55	2984.49
1475+50.	50.00	--	--		174.93	325.33	325.33	0	0	6727.36	6582.77	3417.55	3309.82
1476+00.	50.00	--	--		126.3	278.91	278.91	0	0	7006.28	6861.68	3417.55	3588.73
1476+50.	50.00	--	--		104.73	213.91	213.91	0	0	7220.19	7075.59	3417.55	3802.64
1477+00.	50.00	--	--		91.79	181.96	181.96	0	0	7402.15	7257.55	3417.55	3984.6
1477+50.	50.00	--	--		72.41	152.03	152.03	1.21	1.12	7554.18	7409.58	3418.66	4135.51
1478+00.	50.00	--	--		86.56	147.19	147.19	0	1.12	7701.37	7556.77	3419.78	4281.59
1478+50.	50.00	--	--		132.56	202.89	202.89	0	0	7904.26	7759.66	3419.78	4484.48
1479+00.	50.00	--	--		184.89	293.94	293.94	0	0	8198.2	8053.6	3419.78	4778.42
1479+50.	50.00	--	--		170.55	329.11	329.11	0	0	8527.31	8382.71	3419.78	5107.53
1480+00.	50.00	--	--		241.51	381.53	381.53	0.02	0.02	8908.84	8764.24	3419.8	5489.04
1480+50.	50.00	--	--		269.9	473.52	473.52	0.38	0.37	9382.36	9237.76	3420.17	5962.19
1481+00.	50.00	--	--		191.55	427.27	427.27	0.11	0.45	9809.64	9665.03	3420.62	6389.01
1481+50.	50.00	--	--		82.87	254.09	254.09	18.79	17.5	10063.73	9919.12	3438.13	6625.6
1481+77.91	27.91	--	--		24.96	55.73	55.73	71.29	46.56	10119.46	9974.85	3484.69	6634.77
1481+77.91	0.00	--	--		0	0	0	0	0	10119.46	9974.85	3484.69	6634.77
1482+00.	22.09	--	--		5.63	2.3	2.3	80.39	32.88	10121.76	9977.15	3517.58	6604.19
1482+25.	25.00	--	--		8.93	6.74	6.74	20.82	46.85	10128.5	9983.89	3564.43	6564.07
1482+50.	25.00	--	--		7.96	7.82	7.82	12.96	15.64	10136.32	9991.71	3580.07	6556.25
1482+59.69	9.69	--	--		10.96	3.39	3.39	3.21	2.9	10139.71	9995.1	3582.97	6556.75
1482+59.69	0.00	--	--		0	0	0	0	0	10139.71	9995.1	3582.97	6556.75
1482+75.	15.31	--	--		9.88	2.8	2.8	14.34	4.07	10142.52	9997.9	3587.04	6555.48
1483+00.	25.00	--	--		11.15	9.74	9.74	172.23	86.37	10152.26	10007.64	3673.41	6478.85
1483+25.	25.00	--	--		10.09	9.83	9.83	319.4	227.6	10162.09	10017.47	3901.01	6261.08
1483+26.9	1.90	--	--		10.42	0.72	0.72	321.41	22.58	10162.81	10018.19	3923.6	6239.22
1483+26.9	0.00	--	--		0	0	0	0	0	10162.81	10018.19	3923.6	6239.22
1483+50.	23.10	--	--		11.98	5.12	5.12	280.97	120.18	10167.93	10023.31	4043.77	6124.16
1484+00.	50.00	--	--		13.41	23.51	23.51	100.07	352.82	10191.45	10046.82	4396.59	5794.86
1484+50.	50.00	--	--		280.46	272.11	272.11	12.6	104.33	10463.55	10318.93	4500.92	5962.64
1485+00.	50.00	--	--		635.07	847.71	847.71	0	11.67	11311.26	11166.64	4512.58	6798.68
1485+50.	50.00	--	--		644.8	1185.06	1185.06	0	0	12496.33	12351.7	4512.58	7983.74
1486+00.	50.00	--	87.56		118.25	706.52	706.52	0	0	13202.85	13058.22	4512.59	8690.26
1486+50.	50.00	--	96.65		16.89	125.13	125.13	5.85	5.42	13327.98	13183.35	4518.01	8809.97
1486+61.32	11.32	--	96.65		10.69	5.78	5.78	12.78	3.91	13333.76	13189.13	4521.92	8811.84

9

9

PROJECT NO: 1330-18-70 | HWY: STH 83 | COUNTY: WAUKESHA | EARTHWORK | SHEET: 809 | E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

Stage 2
STH 83

Station	Distance	Salvaged / Unusable Pavement Material (Cu. yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)
1486+62.		0	104.57		1.05	0	0	0	0	0	0
1487+00.	38.00	21.11	104.57	148.00	2.03	2.17	0	87.34	61.46	2.17	-18.94
1487+08.95	8.95	4.97	104.57	35.00	38.1	6.65	1.68	58.37	24.15	8.82	-17.26
1487+09.	0.05	0.03	104.57	1.00	38.56	0.07	0.04	58.31	0.11	8.89	-17.22
1487+50.	41.00	22.78	102.9	158.00	145.78	139.96	117.18	88.92	111.79	148.85	99.96
1488+00.	50.00	27.78	102.41	191.00	132.06	257.26	229.48	93.4	168.81	406.1	329.44
1488+50.	50.00	27.78	102.07	190.00	140.8	252.65	224.87	91.26	170.98	658.75	554.31
1489+00.	50.00	27.78	101.8	189.00	159.03	277.62	249.84	80.37	158.92	936.38	804.15
1489+50.	50.00	27.78	103.95	191.00	138.35	275.35	247.57	99.26	166.33	1211.72	1051.72
1490+00.	50.00	27.78	103.86	193.00	117.34	236.75	208.97	123.36	206.12	1448.47	1260.69
1490+50.	50.00	27.78	96.41	186.00	114.13	214.32	186.55	107.32	213.59	1662.79	1447.24
1491+00.	50.00	27.78	85.72	169.00	146.1	240.95	213.18	59.83	154.77	1903.75	1660.42
1491+50.	50.00	27.78	80.05	154.00	317.91	429.65	401.86	4.32	59.4	2333.39	2062.28
1492+00.	50.00	27.78	80.05	149.00	641.57	888.42	860.63	0	4	3221.81	2922.91
1492+50.	50.00	27.78	80.05	149.00	408.69	972.47	944.69	0.22	0.2	4194.28	3867.6
1493+00.	50.00	27.78	80.05	149.00	180.32	545.38	517.6	27.51	25.68	4739.65	4385.2
1493+50.	50.00	27.78	80.05	149.00	137.96	294.7	266.93	59.56	80.62	5034.36	4652.13
1494+00.	50.00	27.78	80.05	149.00	120.62	239.43	211.65	74.22	123.87	5273.78	4863.78
1494+50.	50.00	27.78	80.05	149.00	135.29	236.96	209.18	87.02	149.3	5510.74	5072.96
1495+00.	50.00	27.78	82.41	151.00	104.94	222.44	194.66	118.98	190.75	5733.18	5267.62
1495+50.	50.00	27.78	80.25	151.00	39.66	133.89	106.11	42.47	149.49	5867.06	5373.73
1496+00.	50.00	27.78	80.41	149.00	44.93	78.32	50.55	11.87	50.31	5945.39	5424.28
1496+50.	50.00	27.78	80.47	149.00	12.01	52.72	24.94	58.46	65.12	5998.1	5449.22
1497+00.	50.00	27.78	46.48	118.00	3.44	14.31	0	43.99	94.86	6012.41	5435.75
1497+50.	50.00	27.78	47.27	87.00	2.29	5.31	0	59.31	95.65	6017.72	5413.28
1498+00.	50.00	27.78	49.53	90.00	3.75	5.59	0	47.76	99.14	6023.32	5391.09
1498+50.	50.00	27.78	49.61	92.00	0.59	4.02	0	96.83	133.88	6027.34	5367.33
1499+00.	50.00	27.78	49.79	93.00	0.67	1.17	0	131.45	211.37	6028.51	5340.72
1499+50.	50.00	27.78	50.48	93.00	14.99	14.5	0	146.88	257.71	6043.01	5327.44
1499+54.78	4.77	2.65	50.48	9.00	20.88	3.17	0.52	111.31	22.83	6046.18	5327.96
1499+55.	0.23	0.13	50.48	1.00	21.24	0.18	0.05	108.42	0.91	6046.36	5328.01
1499+75.	20.00	11.11	50.48	38.00	103.96	46.37	35.26	4.69	41.89	6092.73	5363.27
1500+00.	25.00	13.89	52.75	48.00	54.89	73.54	59.65	0	2.17	6166.27	5422.92
1500+11.45	11.45	6.36	52.75	23.00	58.16	23.96	17.6	0	0	6190.23	5440.52
1500+11.5	0.05	0.03	52.75	1.00	58.3	0.12	0.09	0	0	6190.35	5440.61
1500+25.	13.50	7.5	52.75	27.00	63.43	30.43	22.93	0	0	6220.79	5463.54
1500+50.	25.00	13.89	62.9	54.00	37.33	46.65	32.76	45.41	21.02	6267.43	5496.3
1500+53.79	3.79	2.1	62.9	9.00	33.23	4.95	2.84	52.38	6.86	6272.38	5499.14
1500+53.8	0.01	0.01	62.9	1.00	33.19	0.02	0.01	52.4	0.03	6272.4	5499.15
1501+00.	46.20	25.67	63.27	108.00	31.83	55.63	29.96	11.11	54.34	6328.03	5529.11
1501+50.	50.00	27.78	63.27	118.00	29.4	56.69	28.92	10.55	20.06	6384.72	5558.03
1502+00.	50.00	27.78	63.27	118.00	17.05	43	15.23	39.43	46.28	6427.72	5573.26
1502+50.	50.00	27.78	63.27	118.00	11.81	26.72	0	40.19	73.73	6454.44	5572.2
1503+00.	50.00	27.78	58.8	114.00	18.68	28.24	0.45	57.25	90.22	6482.68	5572.65
1503+50.	50.00	27.78	43.94	96.00	13.58	29.87	2.09	67.99	115.96	6512.55	5574.74
1504+00.	50.00	27.78	47.73	85.00	1.66	14.11	0	79.19	136.28	6526.67	5561.07
1504+50.	50.00	27.78	47.73	89.00	2.39	3.75	0	99.21	165.18	6530.42	5537.04
1505+00.	50.00	27.78	47.73	89.00	1.9	3.97	0	138.03	219.66	6534.39	5513.23
1505+50.	50.00	27.78	47.73	89.00	7.36	8.57	0	134.8	252.62	6542.95	5494.03
1506+00.	50.00	27.78	47.73	89.00	14.43	20.17	0	118.9	234.91	6563.13	5486.43
1506+50.	50.00	27.78	--	--	26.6	37.99	10.21	103.66	206.08	6601.11	5496.64
1507+00.	50.00	27.78	--	--	48.17	69.23	41.45	67.25	158.25	6670.34	5538.09
1507+50.	50.00	26.85	--	--	145.31	179.15	152.3	7.13	68.87	6849.5	5690.39
1508+00.	50.00	25	--	--	251.73	367.63	342.63	0	6.6	7217.13	6033.02
1508+50.	50.00	23.15	--	--	268.62	481.8	458.66	0	0	7698.93	6491.68
1509+00.	50.00	21.3	--	--	201.04	434.87	413.57	1.34	1.24	8133.8	6905.25
1509+50.	50.00	18.52	--	--	135.46	311.58	293.06	71.53	67.47	8445.38	7198.31
1510+00.	50.00	15.28	--	--	134.82	250.25	234.98	65.29	126.69	8695.64	7433.29
1510+30.	30.00	8.33	--	--	144.91	155.4	147.07	18.73	46.68	8851.04	7580.36
1510+30.	0.00	0	--	--	0	0	0	0	0	8851.04	7580.36
1510+40.	10.00	2.78	--	--	153.6	28.44	25.67	0.35	0.07	8879.48	7606.03
1510+50.	10.00	2.78	--	--	188.13	63.28	60.51	0	0.07	8942.77	7666.54
1510+60.	10.00	2.78	--	--	216.53	74.94	72.16	0	0	9017.7	7738.7
1510+70.	10.00	2.78	--	--	197.82	76.73	73.95	0	0	9094.43	7812.65
1510+80.	10.00	2.78	--	--	201.09	73.87	71.09	0	0	9168.31	7883.74
1510+90.	10.00	2.78	--	--	199.08	74.1	71.33	0	0	9242.41	7955.07
1510+98.37	8.37	2.32	--	--	191.6	60.52	58.2	0	0	9302.93	8013.27
1510+98.4	0.03	0.01	--	--	191.51	0.24	0.23	0	0	9303.18	8013.5
1511+00.	1.60	0.44	--	--	185.38	11.17	10.72	0	0	9314.34	8024.22
1511+50.	50.00	13.89	--	--	140.93	302.14	288.25	0.4	0.37	9616.48	8312.47
1512+00.	50.00	13.89	--	--	116.14	238.03	224.14	3.33	3.46	9854.51	8536.61
1512+50.	50.00	6.94	--	--	103.48	203.35	203.35	10.36	12.67	10057.86	8739.96
1513+00.	50.00	--	--	--	83.67	173.28	173.28	7.6	16.63	10231.14	8913.24
1513+50.	50.00	--	--	--	59.1	132.19	132.19	1.23	8.18	10363.33	9045.43
1513+88.57	38.57	--	--	--	65.1	88.7	88.7	0.86	1.5	10452.03	9134.13

CONTINUED ON NEXT SHEET

Stage 2
STH 83

Station	Distance	Salvaged / Unusable Pavement Material (Cu. yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
1513+88.6	0.03	--	--	--	65.21	0.08	0.08	0.87	0	10452.11	9134.21	5458.16
1513+90.	1.40	--	--	--	65.97	3.4	3.4	1.11	0.05	10455.51	9137.61	5458.21
1514+00.	10.00	--	--	--	60.77	23.47	23.47	1.62	0.51	10478.98	9161.08	5458.71
1514+10.	10.00	--	--	--	80.89	26.23	26.23	1.1	0.5	10505.22	9187.31	5459.22
1514+20.	10.00	--	--	--	99.85	33.47	33.47	1.39	0.46	10538.69	9220.78	5459.68
1514+30.	10.00	--	--	--	102	37.38	37.38	1.78	0.59	10576.07	9258.16	5460.27
1514+40.	10.00	--	--	--	106.42	38.6	38.6	1.25	0.56	10614.66	9296.76	5460.83
1514+50.	10.00	--	--	--	104.06	38.98	38.98	1.4	0.49	10653.64	9335.74	5461.32
1514+50.75	0.75	--	--	--	103.87	2.9	2.9	1.41	0.04	10656.54	9338.64	5461.36
1514+50.8	0.05	--	--	--	103.86	0.18	0.18	1.41	0	10656.72	9338.82	5461.36
1515+00.	49.20	--	--	--	19.35	112.26	112.26	14.99	14.94	10768.98	9451.08	5476.3
1515+50.	50.00	--	--	--	4.07	21.68	21.68	38.1	49.16	10790.66	9472.76	5525.46
1515+52.4	2.40	--	--	--	4.14	0.36	0.36	36.92	3.33	10791.03	9473.12	5528.79
1515+52.45	0.05	--	--	--	4.15	0	0	36.89	0.07	10791.03	9473.12	5528.86
1515+75.	22.55	--	--	--	6.35	4.38	4.38	21.35	24.32	10795.42	9477.5	5553.18
1515+86.76	11.76	--	--	--	7.26	2.96	2.96	18.43	8.66	10798.38	9480.46	5561.85
1515+86.8	0.04	--	--	--	7.25	0.01	0.01	18.44	0.03	10798.39	9480.47	5561.87
1516+00.	13.20	--	--	--	2.26	2.33	2.33	21.62	9.79	10800.72	9482.8	5571.67
1516+25.	25.00	--	--	--	1.3	1.65	1.65	83.39	48.62	10802.37	9484.45	5620.28
1516+30.79	5.79	--	--	--	2.4	0.4	0.4	78.98	17.41	10802.76	9484.85	5637.69
1516+30.82	0.03	--	--	--	2.41	0	0	78.95	0.09	10802.77	9484.85	5637.78
1516+50.	19.18	--	--	--	4.43	2.43	2.43	65.17	51.19	10805.19	9487.28	5688.97
1517+00.	50.00	--	54.61	--	13.56	16.66	16.66	54.8	111.08	10821.85	9503.94	5800.05
1517+50.	50.00	--	54.13	101.00	12.44	24.07	24.07	36.45	84.49	10845.93	9528.01	5884.54
1518+00.	50.00	--	55.37	102.00	18.87	28.99	28.99	24.59	56.52	10874.92	9557	5941.06
1518+50.	50.00	--	56.46	104.00	13.27	29.76	29.76	42.17	61.81	10904.68	9586.76	6002.87
1519+00.	50.00	--	56.19	105.00	14.01	25.26	25.26	22.11	59.52	10929.94	9612.02	6062.39
1519+36.23	36.23	--	57.64	77.00	20.82	23.37	23.37	16.76	26.08	10953.3	9635.39	6088.48
1519+36.26	0.03	--	56.93	1.00	19.83	0.02	0.02	12.82	0.02	10953.33	9635.41	6088.49
1519+50.	13.74	--	57.63	30.00	26.53	11.8	11.8	6.1	4.81	10965.12	9647.21	6093.31
1519+75.	25.00	--	57.63	54.00	12.54	18.09	18.09	0	2.82	10983.21	9665.3	6096.13
1519+82.68	7.68	--	56.60	17.00	13.84	3.75	3.75	0	0	10986.96	9669.05	6096.13
1519+82.71	0.03	--	56.67	1.00	13.86	0.02	0.02	0	0	10986.98	9669.07	6096.13
1520+00.	17.29	--	56.93	37.00	16.74	9.8	9.8	0	0	10996.78	9678.87	6096.13
1520+25.	25.00	--	56.25	53.00	62.83	36.84	36.84	0	0	11033.62	9715.71	6096.13
1520+25.53	0.53	--	56.25	2.00	62.35	1.22	1.22	0	0	11034.84	9716.93	6096.13
1520+25.56	0.03	--	56.25	1.00	62.31	0.07	0.07	0	0	11034.91	9717	6096.13
1520+50.	24.44	--	56.25	51.00	34.82	43.96	43.96	1.83	0.83	11078.88	9760.96	6096.96
1521+00.	50.00	--	56.40	105.00	37.42	66.89	66.89	6.41	7.63	11145.77	9827.85	6104.59
1521+50.	50.00	--	56.40	105.00	44.79	76.12	76.12	4.38	9.99	11221.88	9903.97	6114.58
1522+00.	50.00	--	56.67	105.00	62.63	99.46	99.46	2.93	6.77	11321.35	10003.43	6121.35
1522+50.	50.00	--	--	--	55.06	108.98	108.98	27.4	28.09	11430.33	10112.41	6149.44
1523+00.	50.00	--	--	--	57.29	104.03	104.03	77.79	97.39	11534.35	10216.44	6246.84
1523+00.01	0.01	--	--	--	64.56	0.03	0.03	77.83	0.04	11534.38	10216.47	6246.88
1523+50.	49.99	--	--	--	78.11	132.07	132.07	99.04	163.73	11666.46	10348.54	6410.61
1524+00.	50.00	--	--	--	87.97	153.78	153.78	110.23	193.76	11820.24	10502.32	6604.37
1524+18.63	18.63	--	--	--	79.89	57.91	57.91	44.77	53.47	11878.15	10560.23	6657.85
1524+18.66	0.03	--	--	--	79.88	0.09	0.09	44.76	0.05	11878.24	10560.32	6657.9
1524+20.	1.34	--	--	--	82.67	4.03	4.03	46.12	2.26	11882.28	10564.35	6660.15
1524+30.	10.00	--	--	--	98.54	33.56	33.56	26.05	13.37	11915.83	10597.91	6673.52
1524+40.	10.00	--	--	--	102.21	37.18	37.18	14.09	7.43	11953.01	10635.09	6680.95
1524+50.	10.00	--	--	--	98.4	37.15	37.15	22.92	6.85	11990.16	10672.24	6687.8
1524+60.	10.00	--	--	--	93.96	35.62	35.62	40.39	11.72	12025.78	10707.86	6699.53
1524+64.3	4.30	--	--	--	92.39	14.84	14.84	24.59	5.18	12040.63	10722.7	6704.71
1524+64.3	0.00	--	--	--	0	0	0	0	0	12040.63	10722.7	6704.71
1525+00.	35.70	--	--	--	81.87	54.12	54.12	114.75	75.86	12094.75	10776.82	6780.57
1525+50.	50.00	--	--	--	73.38	143.75	143.75	67.31	168.58	12238.49	10920.57	6949.15
1526+00.	50.00	--	--	--	61.09	124.51	124.51	67.35	124.69	12363	11045.08	7073.83
1526+44.35	44.35	--	--	--	53.85	94.38	94.38	44.03	91.46	12457.39	11139.46	7165.3
1526+44.38	0.03	--	--	--	53.84	0.07	0.07	43.79	0.06	12457.45	11139.53	7165.35
1526+50.	5.62	--	--	--	55.71	11.4	11.4	64.79	11.3	12468.85	11150.93	7176.65
1526+60.	10.00	--	--	--	54.48	20.4	20.4	84.78	27.7	12489.26	11171.33	7204.35
1526+66.95	6.95	--	--	--	48.9	13.3	13.3	65.65	19.35	12502.56	11184.63	7223.7
1526+67.	0.05	--	--	--	48.89	0.1	0.1	65.55	0.13	12502.65	11184.73	7223.83
1527+00.	33.00	--	--	--	42.04	55.57	55.57	16.9	50.39	12558.22	11240.3	7274.22
1527+50.	50.00	--	--	--	64.13	98.3	98.3	0	15.64	12656.52	11338.6	7289.86
1528+00.	50.00	--	--	--	93.43	145.89	145.89	0	0	12802.42	11484.49	7289.86
1528+50.	50.00	--	--	--	103.57	182.42	182.42	0	0	12984.83	11666.91	7289.86
1529+00.	50.00	--	--	--	123.24	210.01	210.01	0	0	13194.85	11876.92	7289.86
1529+50.	50.00	--	--	--	119.7	224.94	224.94	0.38	0.35	13419.79	12101.86	7290.22
1530+00.	50.00	--	--	--	137.03	237.71	237.71	10.07	9.68	13657.5	12339.57	7299.9
1530+50.	50.00	--	--	--	174	287.99	287.99	31.45	38.44	13945.5	12627.56	7338.34
1530+53.5	3.50	--	--	--	179.31	22.9	22.9	26.9	3.78	13968.4	12650.46	7342.12
1530+53.55	0.05	--	--	--	179.39	0.33	0.33	7.62	0.03	13968.73	12650.79	7342.15
1530+82.	28.45	--	--	--	134.86	165.56	165.56	21.59	15.39	14134.29	12816.35	7357.54

Stage 2
STH 83

Station	Distance	Salvaged / Unusable Pavement Material (Cu. yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
1551+00.		--	--	--	102.79	0	0	2.51	0	0	0	0
1551+50.	50.00	--	--	--	33.85	126.52	126.52	7.84	9.75	129.78	126.52	9.75
1552+00.	50.00	--	--	--	23.37	52.98	52.98	31.38	36.31	182.77	179.5	46.05
1552+50.	50.00	--	--	--	16.75	37.15	37.15	43.69	69.51	219.91	216.65	115.56
1553+00.	50.00	--	--	--	14.38	28.82	28.82	40.8	78.23	248.74	245.47	193.79
1553+50.	50.00	--	--	--	13.62	25.93	25.93	42.67	77.29	274.67	271.4	271.08
1554+00.	50.00	--	--	--	10.27	22.12	22.12	34.39	71.36	296.79	293.52	342.44
1554+50.	50.00	--	--	--	47.75	53.72	53.72	5.24	36.7	350.51	347.24	379.14
1555+00.	50.00	--	--	--	282.07	305.39	305.39	0.08	4.93	655.9	652.63	384.06
1555+19.07	19.07	--	--	--	320.14	212.65	212.65	0.09	0.06	868.55	865.28	384.12
1555+20.	0.93	--	--	--	318.47	11.02	11.02	0	0	879.57	876.3	384.13
1555+25.	5.00	--	--	--	287.06	56.07	56.07	0	0	935.64	932.37	384.13
1555+50.	25.00	--	--	--	137	196.32	196.32	0	0	1131.96	1128.69	384.13
1555+57.54	7.54	--	--	--	123.01	36.31	36.31	0	0	1168.28	1165	384.13
1555+58.	0.46	--	--	--	123.63	2.09	2.09	0	0	1170.37	1167.09	384.13
1555+75.	17.00	--	--	--	120.05	76.71	76.71	0	0	1247.08	1243.8	384.13
1556+00.	25.00	--	--	--	314.35	201.11	201.11	0	0	1448.2	1444.91	384.13
1556+10.	10.00	--	--	--	498.99	150.62	150.62	4.13	0.76	1598.82	1595.53	384.89
1556+15.	5.00	--	--	--	569.46	98.93	98.93	4.98	0.84	1697.75	1694.46	385.73
1556+50.	35.00	--	--	--	848.29	918.91	918.91	9.79	9.57	2616.66	2613.37	395.31
1557+00.	50.00	--	--	--	887.72	1607.42	1607.42	9.09	17.49	4224.07	4220.79	412.79
1557+50.	50.00	--	--	--	845.59	1604.92	1604.92	10.96	18.57	5828.99	5825.71	431.36
1558+00.	50.00	--	--	--	742.09	1470.07	1470.07	10.5	19.82	7268.52	7295.78	451.18
1558+50.	50.00	0.93	--	--	494.42	1144.92	1143.99	7.19	16.31	8390.1	8439.77	467.5
1559+00.	50.00	2.78	--	--	313.89	748.44	745.66	5.93	12.08	9124.2	9185.43	479.57
1559+50.	50.00	3.7	--	--	237.07	510.15	506.44	7.29	12.15	9625.25	9691.87	491.72
1560+00.	50.00	4.63	48.72	--	271.11	470.54	465.91	4.97	11.26	10087.57	10157.78	502.98
1560+50.	50.00	5.56	48.72	91.00	271.66	502.56	497.01	0.17	4.71	10581.15	10654.79	507.69
1561+00.	50.00	5.56	48.72	91.00	306.37	535.21	529.66	0.22	0.35	11106.7	11184.45	508.04
1561+50.	50.00	5.56	50.33	92.00	481.79	729.78	724.22	0.14	0.33	11821.86	11908.67	508.37
1562+00.	50.00	5.56	55.62	99.00	277.88	703.4	697.84	0	0.13	12510.98	12606.51	508.5
1562+50.	50.00	5.56	59.23	107.00	118.32	366.85	361.3	0	0	12871.45	12967.81	508.5
1563+00.	50.00	5.56	59.23	110.00	79.31	182.99	177.44	1.84	1.68	13051.73	13145.25	510.19
1563+50.	50.00	5.56	59.71	111.00	53.18	122.68	117.12	4.46	5.83	13174.4	13262.37	516.02
1564+00.	50.00	5.56	59.71	111.00	63.29	107.84	102.29	8.77	12.25	13282.24	13364.66	528.26
1564+50.	50.00	5.56	61.21	112.00	51.37	106.17	100.61	14.77	21.8	13388.41	13465.27	550.06
1564+75.	25.00	2.78	62.24	58.00	45.84	45	42.23	33.87	22.52	13433.42	13507.5	572.58
1564+80.	5.00	0.56	62.24	12.00	46.83	8.58	8.03	14.16	4.45	13442	13515.53	577.02
1565+00.	20.00	2.22	62.24	47.00	54.85	37.66	35.44	0	5.25	13479.66	13550.97	582.27
1565+12.58	12.58	1.4	62.24	29.00	53.68	25.28	23.89	0	0	13504.94	13574.86	582.27
1565+13.	0.42	0.05	62.24	1.00	53.88	0.84	0.79	0	0	13505.78	13575.65	582.27
1565+25.	12.00	1.33	62.24	28.00	58.1	24.88	23.55	0	0	13530.66	13599.2	582.27
1565+46.68	21.68	2.41	59.59	49.00	34.99	37.37	34.96	49.66	19.94	13568.03	13634.16	602.2
1565+50.	3.32	0.37	59.59	8.00	30.95	4.06	3.69	46.9	5.94	13572.09	13637.85	608.15
1566+00.	50.00	5.56	57.20	109.00	26.57	53.26	47.7	31.92	72.98	13625.35	13685.55	681.13
1566+50.	50.00	5.56	53.08	103.00	20.1	43.21	37.66	36.41	63.27	13668.56	13723.21	744.4
1566+85.	35.00	3.89	49.95	67.00	17.42	24.32	20.43	44.08	52.16	13692.87	13743.64	796.56

Stage 2
STH 83

Station	Distance	Salvaged/Unusable Pavement Material (Cu. yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
1566+73.4		0	53.08		17.42	0	0	44.08	0	0	0	0
1567+00.	26.60	2.46	49.95	51.00	16.41	16.66	14.2	80.9	61.56	16.66	14.2	61.56
1567+50.	50.00	3.7	--	--	13.55	27.74	24.04	143.86	208.1	44.4	38.24	269.66
1568+00.	50.00	3.7	--	--	13.99	25.5	21.8	80.98	208.18	69.9	60.04	477.84
1568+50.	50.00	3.7	--	--	11.94	24.01	20.31	225.74	284	93.91	80.35	761.84
1569+00.	50.00	3.7	--	--	9.67	20.01	16.31	185.09	380.39	113.91	96.66	1142.23
1569+50.	50.00	3.7	--	--	14.91	22.76	19.06	29.8	198.97	136.67	115.72	1341.2
1570+00.	50.00	2.78	--	--	13.01	25.86	23.07	33.26	58.39	162.53	138.79	1399.59
1570+50.	50.00	0.93	--	--	13.4	24.46	24.46	17.19	46.72	186.99	163.25	1446.31
1571+00.	50.00	--	--	--	13.83	25.22	25.22	12.02	27.05	212.21	188.47	1473.36
1571+50.	50.00	--	--	--	13.89	25.67	25.67	8.29	18.81	237.88	214.14	1492.16
1572+00.	50.00	--	--	--	16.74	28.37	28.37	6.53	13.72	266.25	242.51	1505.88
1572+50.	50.00	--	--	--	16.05	30.36	30.36	13.52	18.57	296.61	272.87	1524.45
1573+00.	50.00	--	--	--	16.66	30.28	30.28	0.83	13.29	326.9	303.15	1537.74
1573+50.	50.00	--	--	--	15.19	29.49	29.49	0.79	1.5	356.39	332.64	1539.24
1573+51.32	1.32	--	--	--	15.22	0.74	0.74	0.79	0.04	357.13	333.38	1539.27

Stage 2
London Dr

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
50+50.	22.62	0	0	0	0	0	0	0	0
50+75.	70.18	42.96	42.96	6.22	2.88	42.96	42.96	2.88	40.08
51+00.	48.4	54.9	54.9	7.61	6.41	97.86	97.86	9.29	88.57
51+25.	44.92	43.2	43.2	0.51	3.76	141.06	141.06	13.05	128.01
51+50.	32.11	35.66	35.66	0	0.24	176.72	176.72	13.29	163.43
51+52.72	0	1.62	1.62	0	0	178.33	178.33	13.29	165.05

Stage 2
Harvest View Dr

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
50+12.1	0.43	0	0	0	0	0	0	0	0
50+25.	40.24	9.71	9.71	0	0	9.71	9.71	0	9.71
50+50.	97.64	63.83	63.83	1.09	0.5	73.55	73.55	0.5	73.04
50+75.	68.9	77.1	77.1	1.05	0.99	150.65	150.65	1.5	149.15
50+86.71	50.53	25.91	25.91	5.76	1.48	176.56	176.56	2.97	173.58

Stage 2
Porthamel Ct

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
48+00.	0	0	0	0	0	0	0	0	0
48+00.	0	0	0	0	0	0	0	0	0
48+50.	40.73	38.19	38.19	0.33	0.28	38.19	38.19	0.28	37.91
49+00.	78.71	110.59	110.59	0.7	0.95	148.79	148.79	1.24	147.55
49+23.	126.6	87.44	87.44	0.08	0.33	236.23	236.23	1.57	234.67
49+24.	131.35	4.78	4.78	0.07	0	241.01	241.01	1.57	239.44
49+25.	143.8	5.1	5.1	0.04	0	246.1	246.1	1.57	244.53
49+50.	50.49	89.95	89.95	0	0.02	336.05	336.05	1.59	334.47
49+53.	11.02	3.42	3.42	0	0	339.47	339.47	1.59	337.88

Stage 2
CTH G

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
46+50.	0	0	0	0	0	0	0	0	0
47+00.	49.94	46.24	46.24	6.32	5.85	46.24	46.24	5.85	40.39
47+50.	26.81	71.06	71.06	4.24	9.78	117.3	117.3	15.63	101.67
48+00.	0	24.82	24.82	44.43	45.06	142.12	142.12	60.69	81.43
48+50.	9.18	8.5	8.5	213.38	238.71	150.62	150.62	299.4	-148.79
48+89.02	0.93	7.31	7.31	172.55	278.87	157.92	157.92	578.27	-420.35
48+90.	0.42	0.02	0.02	181.54	6.43	157.95	157.95	584.7	-426.75
49+00.	0	0.08	0.08	227.84	75.81	158.02	158.02	660.51	-502.49
49+25.	0	0	0	24.27	116.72	158.02	158.02	777.23	-619.21
49+41.	0	0	0	0.63	7.38	158.02	158.02	784.61	-626.58

Stage 2
E Welsh Rd

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
50+75.	6.4	0	0	0	0	0	0	0	0
51+00.	152.41	76.5	76.5	8.69	4	76.5	76.5	4	72.5
51+04.	164.84	23.5	23.5	5.04	1.02	100	100	5.02	94.99
51+10.	90.23	28.34	28.34	0.06	0.57	128.34	128.34	5.58	122.76
51+25.	20.83	31.22	31.22	0.31	0.1	159.57	159.57	5.68	153.88
51+39.19	0	5.36	5.36	0	0.08	164.93	164.93	5.76	159.17

Stage 2
Main St

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
50+35.	2.57	0	0	0	0	0	0	0	0
50+50.	28.36	8.59	8.59	0	0	8.59	8.59	0	8.59
50+58.55	58.35	13.73	13.73	2.4	0.38	22.32	22.32	0.38	21.95
50+70.	46.56	22.24	22.24	3.36	1.22	44.57	44.57	1.6	42.97
51+00.	36.87	46.35	46.35	0.32	2.05	90.92	90.92	3.65	87.27
51+50.	59.22	88.97	88.97	0	0.3	179.89	179.89	3.95	175.94
52+00.	49.25	100.44	100.44	4.73	4.38	280.32	280.32	8.33	271.99
52+50.	30.07	73.45	73.45	7.5	11.33	353.77	353.77	19.67	334.11

Stage 2
Criglass Rd

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
52+66.	0	0	0	1.85	0	0	0	0	0
52+75.	0.45	0.07	0.07	4.53	1.06	0.07	0.07	1.06	-0.99
52+90.61	24.89	7.33	7.33	39.24	12.65	7.4	7.4	13.72	-6.32
53+00.	38.31	10.99	10.99	4.08	7.53	18.39	18.39	21.25	-2.86
53+25.	51.16	41.42	41.42	0	1.89	59.81	59.81	23.14	36.68
53+45.	48.12	36.77	36.77	0	0	96.58	96.58	23.14	73.45

Stage 2
USH 18

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
87+00.	30.84	0	0	0	0	0	0	0	0
87+50.	27.81	54.31	54.31	8.94	8.28	54.31	54.31	8.28	46.03
88+00.	18.88	43.23	43.23	35.24	40.91	97.54	97.54	49.19	48.35
88+50.	45.12	59.26	59.26	0	32.63	156.8	156.8	81.82	74.98
89+00.	22.76	62.85	62.85	39.38	36.47	219.65	219.65	118.28	101.37
89+50.	18.93	38.6	38.6	40.41	73.88	258.26	258.26	192.16	66.09
90+00.	20.28	36.31	36.31	39.66	74.13	294.56	294.56	266.29	28.27
90+50.	19.99	37.29	37.29	38.71	72.56	331.85	331.85	338.85	-7
91+00.	18.83	35.95	35.95	36.2	69.36	367.8	367.8	408.21	-40.42
91+50.	18.07	34.17	34.17	38.14	68.84	401.97	401.97	477.05	-75.08
92+00.	18.5	33.87	33.87	38.99	71.41	435.83	435.83	548.46	-112.63
92+50.	39.74	53.93	53.93	0	36.1	489.76	489.76	584.56	-94.8
93+00.	20.21	55.51	55.51	40.19	37.21	545.27	545.27	621.77	-76.5
93+50.	19.03	36.33	36.33	37.64	72.06	581.6	581.6	693.83	-112.23
94+00.	38.5	53.26	53.26	0	34.85	634.86	634.86	728.67	-93.81
94+50.	23.56	57.46	57.46	32.46	30.05	692.32	692.32	758.73	-66.4
95+00.	53.71	71.55	71.55	0	30.05	763.87	763.87	788.78	-24.91
95+50.	29.58	77.12	77.12	11.03	10.21	840.99	840.99	798.99	42
96+00.	26.81	52.21	52.21	18.08	26.96	893.2	893.2	825.95	67.25
96+50.	14.2	37.97	37.97	12.47	28.29	931.17	931.17	854.24	76.94
96+73.76	18.07	14.2	14.2	7.03	8.58	945.37	945.37	862.81	82.55
96+96.71	0	7.68	7.68	0	2.99	953.05	953.05	865.8	87.25

Stage 2
High Meadow

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
51+00.	14.24	0	0	0	0	0	0	0	0
51+25.	147.61	74.93	74.93	0.14	0.06	74.93	74.93	0.06	74.87
51+27.17	136.74	11.42	11.42	0.67	0.03	86.35	86.35	0.1	86.25
51+35.31	78.64	32.48	32.48	2.76	0.52	118.82	118.82	0.62	118.21
51+50.	46.08	33.59	33.59	0.78	1.01	152.41	152.41	1.63	150.79
51+75.	31.13	35.43	35.43	0.04	0.35	187.85	187.85	1.97	185.87
52+00.	29.4	27.93	27.93	0	0.02	215.77	215.77	1.99	213.78

Stage 2
Glacier Pass South

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
50+60.	5.18	0	0	0	0	0	0	0	0
50+75.	33.73	10.8	10.8	0.07	0.02	10.8	10.8	0.02	10.78
50+86.87	43.49	16.98	16.98	19.13	4.18	27.78	27.78	4.19	23.59
51+00.	45.52	21.67	21.67	5.69	6.02	49.45	49.45	10.21	39.24
51+24.75	76.14	55.8	55.8	0	2.65	105.25	105.25	12.86	92.39

Stage 3
STH 83

Station	Distance	Salvaged/Unusable Pavement Material (Cu. yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
615+00.		--	--	--	0	0	0	0	0	0	0	0
615+50.	50.00	--	--	--	0	0	0	0	0	0	0	0
616+00.	50.00	--	--	--	0	0	0	0	0	0	0	0
616+50.	50.00	--	--	--	0	0	0	0	0	0	0	0
617+00.	50.00	--	--	--	0	0	0	0	0	0	0	0
617+50.	50.00	--	--	--	0	0	0	0	0	0	0	0
618+00.	50.00	--	--	--	0	0	0	0	0	0	0	0
618+50.	50.00	--	--	--	0	0	0	0	0	0	0	0
619+00.	50.00	1.85	--	--	0	0	0	0	0	0	0	0
619+50.	50.00	3.7	--	--	90.42	83.72	80.02	0	0	83.72	80.02	0
620+00.	50.00	3.7	--	--	95.23	171.9	168.19	0.16	0.15	255.61	248.21	0.15
620+50.	50.00	3.7	--	--	83.9	165.86	162.16	0.11	0.25	421.47	410.37	0.4
621+00.	50.00	3.7	--	--	93.09	163.87	160.18	0.01	0.12	585.34	570.55	0.52
621+50.	50.00	3.7	--	--	89.47	169.03	165.33	0.16	0.16	754.38	735.88	0.68
622+00.	50.00	3.7	--	--	90.26	166.42	162.71	0.18	0.32	920.8	898.59	1
622+50.	50.00	3.7	--	--	70.16	148.54	144.83	0.8	0.91	1069.34	1043.42	1.91
623+00.	50.00	9.26	--	--	45.68	107.26	98	0.89	1.57	1176.6	1141.42	3.48
623+50.	50.00	14.81	--	--	33.57	73.38	58.56	0.85	1.61	1249.98	1199.98	5.1
624+00.	50.00	14.81	--	--	23.63	52.96	38.15	1.56	2.24	1302.94	1238.13	7.33
624+50.	50.00	12.96	--	--	26.88	46.77	33.81	0.49	1.9	1349.71	1271.94	9.24
625+00.	50.00	10.19	--	--	39.38	61.36	51.17	0	0.45	1411.06	1323.11	9.69
625+50.	50.00	7.41	--	--	42.79	76.08	68.68	2	1.85	1487.14	1391.79	11.54
626+00.	50.00	2.78	--	--	57.34	92.71	92.71	0.74	2.54	1579.85	1484.5	14.08
626+50.	50.00	--	--	--	62.41	110.88	110.88	2.27	2.79	1690.73	1595.38	16.87
627+00.	50.00	--	--	--	66.52	119.38	119.38	2.19	4.13	1810.11	1714.76	21
627+50.	50.00	--	--	--	98.26	152.57	152.57	0.43	2.42	1962.68	1867.33	23.42
628+00.	50.00	--	--	--	193.37	270.03	270.03	0	0.39	2232.71	2137.36	23.81
628+50.	50.00	--	--	--	143.01	311.47	311.47	0	0	2544.18	2448.83	23.81
629+00.	50.00	--	--	--	148.72	270.13	270.13	0	0	2814.31	2718.96	23.81
629+50.	50.00	--	--	--	139.65	267.01	267.01	0	0	3081.32	2985.97	23.81
630+00.	50.00	--	--	--	147.94	266.29	266.29	0	0	3347.6	3252.26	23.81
630+50.	50.00	--	--	--	58.11	190.79	190.79	0	0	3538.39	3443.05	23.81
631+00.	50.00	--	--	--	108.76	160.21	160.21	0	0	3698.6	3603.26	23.81
631+50.	50.00	--	--	--	103.63	203.4	203.4	0	0	3902	3806.66	23.81
632+00.	50.00	--	--	--	101.43	195.84	195.84	3.39	3.28	4097.84	4002.5	27.09
632+50.	50.00	--	--	--	84.6	177.21	177.21	41.63	42.13	4275.04	4179.71	69.22
633+00.	50.00	--	--	--	76.02	152.39	152.39	3.63	42.33	4427.44	4332.1	111.55
633+50.	50.00	--	--	--	46.15	115.4	115.4	0.93	4.36	4542.84	4447.5	115.92
634+00.	50.00	3.7	--	--	11.27	54.11	54.11	7.1	7.56	4596.95	4501.61	123.48
634+50.	50.00	7.41	--	--	3.09	13.51	5.89	31.1	35.96	4610.46	4507.5	159.44
635+00.	50.00	6.48	--	--	0.39	3.27	0	52.58	78.79	4613.72	4507.5	238.23
635+50.	50.00	10.19	--	--	2.2	2.41	0	42.78	89.7	4616.13	4507.5	327.93
636+00.	50.00	15.74	--	--	10.01	11.34	0	21.47	60.35	4627.47	4507.5	388.28
636+50.	50.00	17.59	--	--	14.5	22.76	5.1	13.27	32.6	4650.23	4512.6	420.88
637+00.	50.00	18.52	--	--	31.2	42.31	23.8	3.05	15.12	4692.54	4536.4	436
637+50.	50.00	17.59	--	--	71.91	95.47	77.88	0	2.83	4788.01	4614.28	438.83
638+00.	50.00	15.74	--	--	84.7	145.01	129.27	0	0	4933.02	4743.55	438.83
638+50.	50.00	9.26	--	--	71.48	144.61	135.35	0.23	0.22	5077.63	4878.9	439.05
639+00.	50.00	3.7	--	--	65.62	126.95	123.24	0.96	1.11	5204.57	5002.14	440.15
639+50.	50.00	3.7	--	--	60.98	117.22	113.52	1.45	2.24	5321.8	5115.66	442.39
640+00.	50.00	3.7	--	--	82.07	132.45	128.75	0.37	1.69	5454.25	5244.41	444.08
640+50.	50.00	5.56	--	--	47.32	119.8	114.25	0.74	1.03	5574.04	5358.66	445.11
641+00.	50.00	8.33	--	--	44.7	85.2	76.87	1.36	1.94	5659.24	5435.53	447.05
641+50.	50.00	9.26	--	--	55.72	92.98	83.72	0.71	1.91	5752.22	5519.25	448.97
642+00.	50.00	10.19	--	--	62.57	109.53	99.34	0.43	1.05	5861.75	5618.59	450.02
642+50.	50.00	11.11	--	--	62.51	115.81	104.7	0.85	1.18	5977.56	5723.29	451.2
643+00.	50.00	11.11	--	--	89.04	140.32	129.21	0	0.79	6117.88	5852.5	451.99
643+50.	50.00	11.11	--	--	99.72	174.78	163.67	0	0	6292.66	6016.17	451.99
644+00.	50.00	11.11	--	--	112.52	196.52	185.41	0	0	6489.18	6201.58	451.99
644+50.	50.00	11.11	--	--	140.7	234.46	223.35	0	0	6723.64	6424.93	451.99
645+00.	50.00	11.11	--	--	152.89	271.84	260.73	0	0	6995.48	6685.66	451.99
645+50.	50.00	11.11	--	--	135.13	266.69	255.57	0	0	7262.17	6941.23	451.99
646+00.	50.00	11.11	--	--	0	125.12	114.01	0	0	7387.29	7055.24	451.99

Stage 3
STH 83

Station	Distance	Salvaged / Unusable Pavement Material (Cu. yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
1459+00.		0	47.75		60.68	0	0	9.38	0	0	0	0
1459+50.	50.00	18.52	47.75	89.00	50.63	103.06	84.55	24.79	31.64	103.06	84.55	31.64
1460+00.	50.00	18.52	47.75	89.00	51.28	94.36	75.84	10.09	32.29	197.43	160.39	63.93
1460+50.	50.00	18.52	47.75	89.00	69.49	111.82	93.31	0.05	9.39	309.25	253.7	73.32
1461+00.	50.00	18.52	47.75	89.00	61.65	121.42	102.91	0	0.05	430.67	356.61	73.36
1461+50.	50.00	18.52	47.75	89.00	53.84	106.94	88.42	1.79	1.66	537.61	445.03	75.02
1462+00.	50.00	18.52	47.75	89.00	48.39	94.66	76.14	3.64	5.03	632.28	521.17	80.05
1462+50.	50.00	18.52	--	--	41.86	83.57	65.05	42.52	42.74	715.85	586.22	122.79
1463+00.	50.00	18.52	--	--	33.1	69.41	50.89	134.32	163.74	785.25	637.11	286.53
1463+50.	50.00	18.52	--	--	24.01	52.88	34.36	120.58	236.02	838.13	671.47	522.55
1464+00.	50.00	18.52	--	--	19.88	40.65	22.12	67.04	173.73	878.78	693.59	696.28
1464+50.	50.00	18.52	--	--	19.62	36.58	18.06	20.01	80.6	915.36	711.65	776.88
1465+00.	50.00	18.52	--	--	83.35	95.35	76.82	20.25	37.28	1010.7	788.47	814.16
1465+50.	50.00	19.44	--	--	105.72	175.07	155.62	30.89	47.36	1185.77	944.09	861.52
1466+00.	50.00	20.37	--	--	51.71	145.77	125.4	51.35	76.15	1331.54	1069.49	937.67
1466+50.	50.00	21.3	--	--	3.07	47.97	29.43	63.04	103.31	1379.51	1098.92	1040.98
1467+00.	50.00	23.15	--	--	1.21	3.79	0	86.87	134.84	1383.3	1098.92	1175.82
1467+50.	50.00	25	--	--	4.89	5.37	0	93	161.14	1388.67	1098.92	1336.96
1468+00.	50.00	26.85	--	--	9.19	12.44	0	83.69	157.6	1401.11	1098.92	1494.57
1468+50.	50.00	27.78	--	--	7.92	15.41	0	90.11	153.91	1416.52	1098.92	1648.48
1469+00.	50.00	27.78	--	--	18.43	24.24	0	37.04	111.84	1440.76	1098.92	1760.32
1469+50.	50.00	27.78	--	--	36.42	50.34	23.01	72.89	96.09	1491.1	1121.93	1856.41
1470+00.	50.00	27.78	--	--	46.48	76.05	48.98	66.94	122.14	1567.15	1170.91	1978.55
1470+50.	50.00	27.78	--	--	79.68	115.66	89.04	49.54	101.9	1682.81	1259.95	2080.44
1471+00.	50.00	27.78	--	--	86.62	152.18	126.2	37.76	76.54	1835	1386.15	2156.99
1471+50.	50.00	27.78	--	--	126.53	194.62	169.58	19.58	50.25	2029.62	1555.73	2207.24
1472+00.	50.00	27.78	--	--	139.51	242.61	218.56	13.72	29.19	2272.23	1774.29	2236.43
1472+50.	50.00	27.78	--	--	148.33	262.48	238.74	19.18	28.83	2534.71	2013.03	2265.26
1473+00.	50.00	27.78	--	--	160.46	281.54	258.14	0.18	16.96	2816.25	2271.17	2282.22
1473+50.	50.00	27.78	--	--	165.69	299.84	274.21	0.71	0.81	3116.09	2545.38	2283.03
1474+00.	50.00	27.78	--	--	226.54	363.18	335.4	0	0.65	3479.27	2880.78	2283.68
1474+50.	50.00	27.78	--	--	240.7	432.63	404.85	0	0	3911.89	3285.63	2283.68
1475+00.	50.00	27.78	--	--	252.23	456.41	428.64	0	0	4368.3	3714.27	2283.68
1475+50.	50.00	27.78	--	--	246.64	461.91	434.14	0	0	4830.22	4148.41	2283.68
1475+90.95	40.95	22.75	--	--	257.38	382.24	359.49	0.04	0.03	5212.45	4507.9	2283.71
1475+98.48	7.52	4.18	--	--	314.46	79.68	75.49	0	0	5292.13	4583.39	2283.72
1476+00.	1.52	0.85	--	--	322.05	17.96	17.12	0	0	5310.09	4600.51	2283.72
1476+50.	50.00	27.78	--	--	364.64	635.82	608.05	0	0	5945.91	5208.56	2283.72
1476+69.95	19.95	11.09	--	--	375.48	273.47	262.39	0	0	6219.38	5470.95	2283.72
1476+85.84	15.89	8.83	--	--	232.74	178.98	170.15	0	0	6398.36	5641.1	2283.72
1477+00.	14.16	7.87	--	--	218.51	118.3	110.44	0	0	6516.66	5751.54	2283.72
1477+50.	50.00	27.78	--	--	205.98	393.05	365.27	0	0	6909.7	6116.81	2283.72
1478+00.	50.00	27.78	--	--	185.44	362.43	334.65	0	0	7272.13	6451.46	2283.72
1478+50.	50.00	27.78	--	--	276.15	427.4	399.62	0	0	7699.52	6851.08	2283.72
1479+00.	50.00	27.78	--	--	211.47	451.51	423.72	0	0	8151.03	7274.8	2283.72
1479+50.	50.00	27.78	--	--	197.33	378.52	350.74	0	0	8529.55	7625.54	2283.72
1480+00.	50.00	27.78	--	--	229.03	394.77	367	0	0	8924.33	7992.54	2283.72
1480+50.	50.00	27.78	--	--	249.99	443.54	415.76	0	0	9367.86	8408.3	2283.72
1481+00.	50.00	27.78	--	--	237.98	451.83	424.05	0	0	9819.69	8832.35	2283.72
1481+50.	50.00	27.78	--	--	181.75	388.64	360.86	0	0	10208.34	9193.21	2283.72
1482+00.	50.00	27.78	--	--	129.88	288.54	260.77	0	0	10496.88	9453.98	2283.72
1482+50.	50.00	27.78	--	--	96.49	209.6	181.82	0.03	0.03	10706.48	9635.8	2283.74
1483+00.	50.00	27.78	--	--	94.12	176.49	148.71	2.06	1.94	10882.97	9784.51	2285.68
1483+50.	50.00	27.78	--	--	83.34	164.31	136.54	0.6	2.47	11047.28	9921.05	2288.15
1484+00.	50.00	27.78	--	--	76.4	147.9	120.13	0.55	1.07	11195.18	10041.18	2289.21
1484+50.	50.00	27.78	--	--	69.17	134.78	107.01	0.65	1.11	11329.96	10148.19	2290.33
1485+00.	50.00	27.78	--	--	62.09	121.53	93.76	4.13	4.43	11451.49	10241.95	2294.76
1485+50.	50.00	27.78	--	--	56.71	110	82.22	2.04	5.72	11561.49	10324.17	2300.47
1485+88.77	38.77	21.54	--	--	56.76	81.47	59.93	1.01	2.19	11642.96	10384.1	2302.67
1485+89.	0.23	0.13	--	--	56.77	0.48	0.35	0.91	0	11643.44	10384.45	2302.68
1486+00.	11.00	6.11	--	--	59.09	23.6	17.49	2.46	0.69	11667.04	10401.94	2303.36
1486+50.	50.00	27.78	--	--	55.54	106.14	78.36	0	2.28	11773.17	10480.3	2305.64
1486+61.	11.00	6.11	--	--	40.39	19.54	13.43	0	0	11792.72	10493.73	2305.64

Stage 3
STH 83

Station	Distance	Salvaged/Unusable Pavement Material (Cu. yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
1486+61.32		--	82.99		39.35	0	0	0	0	0	0	0
1487+00.	38.68	--	83.64	120.00	18.8	41.65	41.65	37.64	26.96	41.65	41.65	26.96
1487+50.	50.00	--	83.42	155.00	8.98	25.72	25.72	60.03	90.43	67.38	67.37	117.39
1488+00.	50.00	--	83.5	155.00	19.24	26.12	26.13	30.81	84.11	93.5	93.5	201.5
1488+50.	50.00	--	83.49	155.00	7.6	24.85	24.85	33.56	59.6	118.35	118.35	261.1
1489+00.	50.00	--	83.59	155.00	8.73	15.12	15.12	48.6	76.07	133.47	133.47	337.17
1489+50.	50.00	--	82.35	154.00	14.65	21.66	21.65	47.71	89.18	155.13	155.12	426.35
1490+00.	50.00	--	82.86	153.00	30.3	41.62	41.62	44.02	84.93	196.75	196.74	511.28
1490+50.	50.00	--	83.37	154.00	50.5	74.81	74.81	31.16	69.62	271.55	271.55	580.9
1491+00.	50.00	--	84.28	156.00	68.27	109.97	109.97	11.47	39.48	381.53	381.52	620.38
1491+50.	50.00	--	84.01	156.00	112.02	166.94	166.94	1.46	11.98	548.46	548.46	632.36
1492+00.	50.00	--	92.94	164.00	123.87	218.41	218.42	0.01	1.37	766.88	766.88	633.72
1492+50.	50.00	--	109.19	188.00	111.79	218.21	218.2	0	0	985.08	985.08	633.73
1493+00.	50.00	--	111.6	205.00	91.79	188.5	188.5	0	0	1173.58	1173.58	633.73
1493+50.	50.00	--	111.6	207.00	81.35	160.31	160.31	0	0	1333.89	1333.89	633.73
1494+00.	50.00	--	111.6	207.00	71.96	141.96	141.95	0	0	1475.85	1475.84	633.73
1494+50.	50.00	--	111.6	207.00	58.02	120.36	120.35	0.14	0.13	1596.21	1596.19	633.86
1495+00.	50.00	--	104.56	201.00	38.56	89.43	89.43	3.47	3.34	1685.64	1685.62	637.2
1495+50.	50.00	--	89.52	180.00	25.51	59.32	59.32	5.34	8.16	1744.96	1744.94	645.35
1496+00.	50.00	--	82.49	160.00	16.48	38.87	38.88	10.01	14.22	1783.83	1783.82	659.57
1496+50.	50.00	--	82.28	153.00	12.49	26.82	26.82	14.37	22.58	1810.65	1810.64	682.15
1497+00.	50.00	--	51.85	125.00	9.98	20.81	20.81	16.64	28.72	1831.46	1831.45	710.86
1497+50.	50.00	--	61.18	105.00	9.69	18.21	18.21	15.58	29.84	1849.68	1849.66	740.7
1498+00.	50.00	--	66.02	118.00	10.68	18.86	18.86	15.47	28.75	1868.53	1868.52	769.45
1498+50.	50.00	--	66.02	123.00	15.4	24.14	24.15	16.25	29.37	1892.68	1892.67	798.82
1499+00.	50.00	--	66.02	123.00	27.91	40.1	40.1	9.53	23.87	1932.78	1932.77	822.69
1499+50.	50.00	--	66.02	123.00	15.32	40.02	40.03	19.71	27.08	1972.8	1972.8	849.77
1499+82.5	32.50	--	66.02	80.00	17.05	19.48	19.48	15.28	21.06	1992.28	1992.28	870.83
1499+82.53	0.03	--	66.02	1.00	17.05	0.02	0.02	15.27	0.02	1992.3	1992.3	870.85
1500+00.	17.47	--	49.26	38.00	19.45	11.81	11.81	9.55	8.03	2004.1	2004.11	878.88
1500+25.	25.00	--	47.40	45.00	11.83	14.48	14.48	0	4.42	2018.58	2018.59	883.3
1500+28.32	3.32	--	47.40	6.00	10.6	1.38	1.38	0	0	2019.96	2019.97	883.3
1500+28.35	0.03	--	47.40	1.00	10.62	0.01	0.01	0	0	2019.97	2019.98	883.3
1500+50.	21.65	--	47.40	39.00	26.99	15.08	15.08	0	0	2035.05	2035.06	883.3
1500+69.18	19.18	--	47.40	34.00	18.51	16.16	16.16	19.35	6.87	2051.21	2051.22	890.17
1500+69.21	0.03	--	47.40	1.00	18.52	0.02	0.02	19.34	0.02	2051.24	2051.24	890.19
1501+00.	30.79	--	47.40	55.00	20.9	22.47	22.48	29.3	27.74	2073.71	2073.72	917.93
1501+50.	50.00	--	47.40	88.00	21.45	39.21	39.21	28.74	53.74	2112.92	2112.93	971.67
1502+00.	50.00	--	47.40	88.00	26.14	44.06	44.06	28.88	53.35	2156.99	2156.99	1025.02
1502+50.	50.00	--	47.40	88.00	30.42	52.36	52.37	26.35	51.14	2209.35	2209.36	1076.16
1503+00.	50.00	--	47.40	88.00	28.1	54.18	54.19	23.34	46.01	2263.53	2263.55	1122.16
1503+50.	50.00	--	47.40	88.00	28.83	52.72	52.71	20.95	41.01	2316.24	2316.26	1163.17
1504+00.	50.00	--	47.40	88.00	37.98	61.86	61.86	16.97	35.11	2378.1	2378.12	1198.28
1504+50.	50.00	--	47.40	88.00	34.41	67.02	67.03	17.63	32.03	2445.13	2445.15	1230.32
1505+00.	50.00	--	47.40	88.00	32.89	62.32	62.31	24.48	38.99	2507.44	2507.46	1269.31
1505+50.	50.00	--	47.40	88.00	38.54	66.14	66.14	10.19	32.11	2573.58	2573.6	1301.41
1506+00.	50.00	--	47.40	88.00	53.79	85.49	85.49	9.15	17.91	2659.07	2659.09	1319.33
1506+50.	50.00	--	--	--	182.64	218.91	218.92	1.43	9.8	2877.99	2878.01	1329.13
1507+00.	50.00	--	--	--	261.62	411.35	411.35	1.34	2.56	3289.34	3289.36	1331.69
1507+50.	50.00	0.93	--	--	292.81	513.36	513.36	0	1.24	3802.7	3802.72	1332.93
1508+00.	50.00	2.78	--	--	313.6	561.5	558.71	0	0	4364.19	4361.43	1332.93
1508+50.	50.00	4.63	--	--	244.63	516.88	512.25	0	0	4881.08	4873.68	1332.93
1509+00.	50.00	7.41	--	--	316.61	519.67	512.26	0	0	5400.74	5385.94	1332.93
1509+50.	50.00	10.19	--	--	272.84	545.79	535.6	0	0	5946.54	5921.54	1332.93
1510+00.	50.00	12.96	--	--	231.27	466.78	453.81	0	0	6413.31	6375.35	1332.93
1510+39.3	39.30	11.64	--	--	186.03	303.71	292.06	0	0	6717.03	6667.41	1332.93
1510+39.33	0.03	0.01	--	--	186.01	0.2	0.19	0	0	6717.23	6667.6	1332.93
1510+50.	10.67	3.16	--	--	174.7	71.27	68.11	0	0	6788.5	6735.71	1332.93
1510+75.	25.00	7.41	--	--	113.7	133.52	126.11	0	0	6922.02	6861.82	1332.93
1510+75.97	0.97	0.29	--	--	111.75	4.06	3.77	0	0	6926.08	6865.59	1332.93
1510+76.	0.03	0.01	--	--	111.8	0.12	0.11	0	0	6926.2	6865.7	1332.93
1511+00.	24.00	7.11	--	--	145.24	114.24	107.13	0	0	7040.43	6972.83	1332.93
1511+13.19	13.19	3.91	--	--	138.42	69.28	65.37	0	0	7109.72	7038.2	1332.93
1511+13.21	0.02	0.01	--	--	138.46	0.11	0.1	0	0	7109.82	7038.3	1332.93
1511+50.	36.79	10.9	--	--	172.82	212.07	201.17	0	0	7321.9	7239.47	1332.93
1512+00.	50.00	14.81	--	--	184.69	331.03	316.21	0	0	7652.93	7555.68	1332.93
1512+25.	25.00	10.65	--	--	231.68	192.77	182.12	0	0	7845.7	7737.8	1332.93

PROJECT NO: 1330-18-70 | HWY: STH 83 | COUNTY: WAUKESHA | EARTHWORK | SHEET: 819 | E

9

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

Station	Distance	Salvaged/Unusable Pavement Material (Cu. yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
1551+00.		0	--	--	169.55	0	0	42.45	0	0	0	0
1551+50.	50.00	33.33	--	--	167.67	307.15	278.91	29.23	63.8	307.15	278.91	63.8
1552+00.	50.00	33.33	--	--	150.98	295.05	261.71	4.81	31.52	602.2	540.62	95.32
1552+50.	50.00	33.33	--	--	134.96	264.76	231.43	0	4.46	866.96	772.05	99.78
1553+00.	50.00	33.33	--	--	121.9	237.84	204.5	0	0	1104.8	976.55	99.78
1553+50.	50.00	33.33	--	--	131.49	234.62	201.29	0	0	1339.41	1177.84	99.78
1554+00.	50.00	33.33	--	--	116.62	229.73	196.4	0	0	1569.14	1374.24	99.78
1554+50.	50.00	33.33	--	--	103.07	203.42	170.08	0	0	1772.56	1544.32	99.78
1555+00.	50.00	33.33	--	--	117.63	204.35	171.02	0	0	1976.91	1715.34	99.78
1555+19.03	19.03	12.68	--	--	135.73	89.27	76.58	0	0	2066.17	1791.92	99.78
1555+20.	0.97	0.65	--	--	136.95	4.92	4.27	0	0	2071.09	1796.19	99.78
1555+25.	5.00	3.33	--	--	140.71	25.71	22.38	0	0	2096.8	1818.57	99.78
1555+50.	25.00	16.67	--	--	85.71	104.83	88.16	0	0	2201.63	1906.73	99.78
1555+53.36	3.36	2.24	--	--	76.75	10.11	7.87	0	0	2211.74	1914.6	99.78
1555+54.	0.64	0.43	--	--	78.16	1.84	1.41	0	0	2213.57	1916.01	99.78
1555+75.	21.00	14	--	--	121.69	77.72	63.72	0	0	2291.29	1979.73	99.78
1556+00.	25.00	16.67	--	--	148.32	125	108.34	0	0	2416.3	2088.07	99.78
1556+02.02	2.02	1.35	--	--	145.44	11	9.65	0	0	2427.3	2097.72	99.78
1556+25.	22.98	15.32	--	--	109.44	108.45	93.14	0.18	0.08	2535.75	2190.86	99.86
1556+50.	25.00	16.67	--	--	93.22	93.82	77.16	2.83	1.4	2629.57	2268.02	101.26
1557+00.	50.00	33.33	--	--	87.09	166.95	133.62	7.05	9.15	2796.53	2401.64	110.4
1557+50.	50.00	33.33	--	--	78.39	153.22	119.89	12.11	17.73	2949.75	2521.53	128.14
1558+00.	50.00	33.33	--	--	75.08	143.99	108.77	13.6	24.33	3093.73	2630.3	152.47
1558+50.	50.00	32.41	--	--	97.56	161.97	127.44	17.42	29.33	3255.7	2757.74	181.8
1559+00.	50.00	31.48	--	--	88.13	174.14	140.45	2.7	19.02	3429.84	2898.19	200.82
1559+50.	50.00	29.63	--	--	150.84	224.86	191.64	0	2.55	3654.69	3089.83	203.37
1559+80.63	30.63	17.01	--	--	140.28	165.11	148.09	5.1	2.89	3819.8	3237.92	206.26
1559+81.	0.37	0.21	--	--	105.52	1.7	1.49	4.98	0.07	3821.5	3239.41	206.33
1560+00.	19.00	10.56	60.25	--	131.66	83.45	72.9	0	1.75	3904.96	3312.31	208.08
1560+16.12	16.12	8.96	60.25	36.00	123.43	76.15	67.19	0	0	3981.11	3379.5	208.08
1560+17.	0.88	0.49	60.25	2.00	125.46	4.06	3.57	0	0	3985.16	3383.07	208.08
1560+25.	8.00	4.44	60.25	18.00	140.91	39.46	35.02	0	0	4024.63	3418.09	208.08
1560+50.	25.00	13.89	63.42	58.00	185.11	150.94	137.05	0	0	4175.56	3555.14	208.08
1560+61.87	11.87	6.6	63.42	28.00	156.58	75.12	68.53	5.05	1.11	4250.68	3623.67	209.19
1560+75.	13.13	7.29	63.42	31.00	145.22	73.37	66.08	21.27	6.4	4324.05	3689.75	215.59
1561+00.	25.00	13.89	63.42	59.00	131.99	128.34	114.45	35.24	26.16	4452.39	3804.2	241.75
1561+50.	50.00	27.78	63.42	118.00	116.36	232.02	202.18	3.59	36.92	4684.42	4006.38	278.66
1562+00.	50.00	27.78	62.95	118.00	129.13	229.05	199.53	15.74	18.34	4913.46	4205.91	297
1562+50.	50.00	27.78	62.95	117.00	273.06	377.13	344.62	0	14.94	5290.59	4550.53	311.94
1563+00.	50.00	27.78	59.68	114.00	135.8	383.69	350.8	3.93	3.72	5674.28	4901.33	315.65
1563+50.	50.00	27.78	46.46	99.00	91.97	210.9	183.12	75.93	73.94	5885.18	5084.45	389.6
1564+00.	50.00	27.78	49.41	89.00	140.32	215.08	187.31	14.95	84.14	6100.26	5271.76	473.74
1564+50.	50.00	27.78	49.54	92.00	262.49	372.97	345.19	7.29	20.59	6473.23	5616.95	494.33
1565+00.	50.00	27.78	49.06	92.00	341.5	559.25	531.47	10.77	16.73	7032.48	6148.42	511.06
1565+50.	50.00	27.78	49.06	91.00	46.31	359.08	331.31	250.58	241.99	7391.56	6479.73	753.05
1566+00.	50.00	27.78	49.06	91.00	39.77	79.71	51.93	799.75	972.53	7471.27	6531.66	1725.57
1566+50.	50.00	27.78	49.06	91.00	36.04	70.19	42.42	746.38	1431.6	7541.46	6574.08	3157.17
1566+85.	35.00	20.09	49.15	64.00	37.49	47.65	27.57	536.51	831.5	7589.11	6601.65	3988.68

Stage 3
STH 83

9

PROJECT NO: 1330-18-70 | HWY: STH 83 | COUNTY: WAUKESHA | EARTHWORK | SHEET: 820 | E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

Station	Distance	Salvaged / Unusable Pavement Material (Cu. yd.)	EBS Area (Sq.ft.)	EBS Volume (Cu.yd.)	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)
1566+73.4		0	--	--	37.49	0	0	536.51	0	0	0	0
1567+00.	26.60	15.76	--	--	41.85	39.08	23.32	290.45	407.37	39.08	23.32	407.37
1567+50.	50.00	29.63	--	--	46.27	81.59	51.96	117.66	377.88	120.67	75.28	785.25
1568+00.	50.00	29.63	--	--	52.3	91.27	61.64	275.27	363.82	211.94	136.92	1149.07
1568+50.	50.00	29.63	--	--	52.58	97.11	67.48	601	811.35	309.05	204.4	1960.42
1569+00.	50.00	29.63	--	--	51.84	96.69	67.06	694.68	1199.7	405.74	271.46	3160.12
1569+50.	50.00	29.63	--	--	53.24	97.3	67.67	557.95	1159.84	503.04	339.13	4319.97
1570+00.	50.00	30.56	--	--	55.96	101.11	70.56	368.53	857.85	604.15	409.69	5177.81
1570+50.	50.00	17.59	--	--	53.48	101.33	83.74	244.45	567.57	705.48	493.43	5745.38
1571+00.	50.00	3.7	--	--	53.36	98.92	95.22	148.66	363.99	804.41	588.65	6109.38
1571+50.	50.00	3.7	--	--	49.11	94.88	91.18	263.9	382	899.29	679.83	6491.38
1572+00.	50.00	3.7	--	--	43.63	85.87	82.17	384.37	600.25	985.15	762	7091.63
1572+50.	50.00	3.7	--	--	42.96	80.17	76.47	490.61	810.17	1065.32	838.47	7901.8
1573+00.	50.00	3.7	--	--	44.17	80.67	76.97	543.11	957.15	1145.99	915.44	8858.95
1573+50.	50.00	3.7	--	--	40.07	78	74.3	550.52	1012.62	1224	989.74	9871.56
1574+00.	50.00	3.7	--	--	55.14	88.16	84.45	535.18	1005.27	1312.16	1074.19	10876.84
1574+50.	50.00	3.7	--	--	49.62	97	93.3	497.55	956.23	1409.16	1167.49	11833.07
1575+00.	50.00	3.7	--	--	59.47	101.01	97.31	451.01	878.29	1510.17	1264.8	12711.36
1575+50.	50.00	3.7	--	--	71.35	121.13	117.43	411.05	798.2	1631.29	1382.23	13509.56
1576+00.	50.00	3.7	--	--	82.2	142.17	138.47	367.02	720.44	1773.46	1520.7	14230
1576+50.	50.00	3.7	--	--	88.46	158.02	154.31	316.92	633.28	1931.48	1675.01	14863.28
1577+00.	50.00	3.7	--	--	95.27	170.12	166.42	283.97	556.38	2101.61	1841.43	15419.66
1577+50.	50.00	3.7	--	--	107.67	187.91	184.2	245.59	490.33	2289.52	2025.63	15909.99
1578+00.	50.00	3.7	--	--	101.99	194.13	190.43	200.49	413.04	2483.65	2216.06	16323.03
1578+50.	50.00	3.7	--	--	107.43	193.91	190.2	169.83	342.89	2677.56	2406.26	16665.92
1579+00.	50.00	3.7	--	--	91.65	184.33	180.63	146.97	293.33	2861.89	2586.89	16959.25
1579+50.	50.00	3.7	--	--	78.11	157.18	153.48	104.67	233	3019.07	2740.37	17192.25
1580+00.	50.00	1.85	--	--	71.13	138.18	136.33	72.89	164.4	3157.26	2876.7	17356.65
1580+50.	50.00	1.85	--	--	74.74	135.36	133.21	65.66	125.64	3292.62	3009.91	17482.29
1581+00.	50.00	4.63	--	--	74.47	138.19	133.53	68.67	121.97	3430.81	3143.44	17604.26
1581+50.	50.00	6.48	--	--	83.1	145.83	139.42	52.95	110.71	3576.64	3282.86	17714.97
1582+00.	50.00	8.33	--	--	50.87	123.69	115.71	32.8	77.94	3700.33	3398.57	17792.91
1582+50.	50.00	10.19	--	--	45.32	88.46	78.88	19.94	47.77	3788.79	3477.45	17840.68
1583+00.	50.00	11.11	--	--	47.61	85.41	74.94	10.21	27.34	3874.2	3552.39	17868.02
1583+50.	50.00	11.11	--	--	54.28	93.62	83.23	0.36	9.59	3967.82	3635.62	17877.61
1584+00.	50.00	11.11	--	--	64.31	108.87	98.69	0	0.33	4076.69	3734.31	17877.94
1584+50.	50.00	11.11	--	--	42.71	99.09	87.98	1.34	1.24	4175.77	3822.29	17879.17
1585+00.	50.00	11.11	--	--	37.75	74.5	63.39	6.89	7.61	4250.28	3885.68	17886.78

Stage 3
STH 83

Stage 3
Brandybrood Rd

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
50+45.	13.46	0	0	2.3	0	0	0	0	0
50+50.	11.74	2.33	2.33	2.17	0.41	2.33	2.33	0.41	1.92
50+52.24	11.21	0.95	0.95	2.09	0.18	3.28	3.28	0.59	2.69
50+75.	46.63	24.38	24.38	1.52	1.52	27.66	27.66	2.11	25.55
51+00.	56.12	47.57	47.57	8	4.41	75.23	75.23	6.52	68.71
51+25.	58.74	53.18	53.18	8.99	7.87	128.41	128.41	14.38	114.02
51+29.63	24.54	7.14	7.14	7.49	1.41	135.55	135.55	15.8	119.75

Stage 3
W Welsh Rd

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
49+30.	39.38	0	0	1.62	0	0	0	0	0
49+50.	36.15	27.97	27.97	1.38	1.11	27.97	27.97	1.11	26.86
49+63.69	43.17	20.1	20.1	7.06	2.14	48.07	48.07	3.25	44.82
49+67.71	56.6	7.43	7.43	10.32	1.29	55.5	55.5	4.54	50.96
49+75.	45.93	13.85	13.85	14.52	3.36	69.35	69.35	7.9	61.45
49+95.	0.91	17.35	17.35	0	5.38	86.7	86.7	13.27	73.42

Stage 3
Benton Ct

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
48+75.	40.02	0	0	0.06	0	0	0	0	0
49+00.	70.92	51.36	51.36	0	0.03	51.36	51.36	0.03	51.34
49+25.	103.78	80.88	80.88	0.76	0.35	132.24	132.24	0.38	131.86
49+35.	121.09	41.64	41.64	0	0.14	173.88	173.88	0.52	173.36
49+37.	131.25	9.35	9.35	0	0	183.23	183.23	0.52	182.71
49+50.	94.02	54.23	54.23	0	0	237.46	237.46	0.52	236.94
49+60.	8.64	19.01	19.01	0	0	256.47	256.47	0.52	255.95

Stage 3
High Meadow

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
49+15.	30.61	0	0	0	0	0	0	0	0
49+25.	39.18	12.92	12.92	0	0	12.92	12.92	0	12.92
49+50.	135.11	80.69	80.69	0	0	93.62	93.62	0	93.61
49+50.86	140.55	4.4	4.4	0	0	98.02	98.02	0	98.02
49+57.59	172.98	39.03	39.03	0	0	137.05	137.05	0	137.05
49+75.	95.72	86.65	86.65	0	0	223.71	223.71	0	223.71
49+85.	6.8	18.99	18.99	0	0	242.69	242.69	0	242.69

Stage 3
Boys School Rd

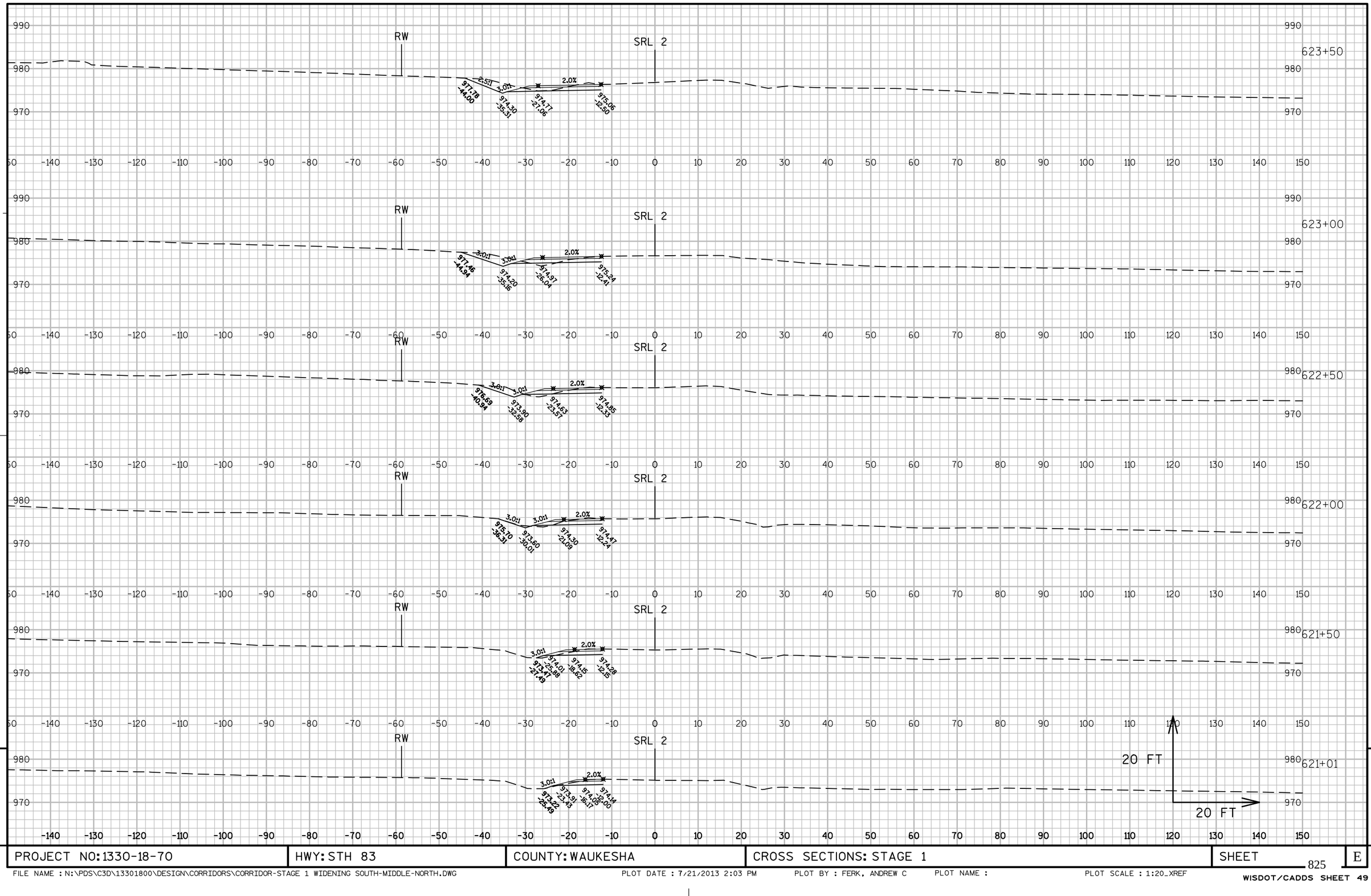
Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
48+25.	41.52	0	0	1.11	0	0	0	0	0
48+50.	50.04	42.39	42.39	0.57	0.77	42.39	42.39	0.77	41.62
49+00.	70.51	111.63	111.63	0.36	0.86	154.02	154.02	1.64	152.38
49+06.46	74.01	17.28	17.28	3.6	0.47	171.3	171.3	2.11	169.19
49+19.97	81.72	38.96	38.96	0.03	0.91	210.27	210.27	3.02	207.25
49+25.	73.55	14.47	14.47	0.42	0.04	224.74	224.74	3.06	221.68
49+40.	25.66	27.56	27.56	0	0.12	252.29	252.29	3.18	249.12

Stage 3
USH 18

Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
87+00.	28.83	0	0	1.85	0	0	0	0	0
87+50.	28.9	53.46	53.46	2.5	4.03	53.46	53.46	4.03	49.43
88+00.	23.5	48.52	48.52	4.1	6.11	101.98	101.98	10.14	91.84
88+50.	22.92	42.98	42.98	3.57	7.1	144.96	144.96	17.24	127.72
89+00.	22.79	42.33	42.33	6.42	9.25	187.29	187.29	26.49	160.8
89+50.	22.68	42.1	42.1	7.71	13.08	229.38	229.38	39.57	189.82
90+00.	22.5	41.83	41.83	7.76	14.32	271.22	271.22	53.89	217.33
90+50.	22.34	41.52	41.52	7.37	14.01	312.74	312.74	67.89	244.84
91+00.	23.77	42.69	42.69	7.34	13.62	355.43	355.43	81.51	273.91
91+50.	21.73	42.12	42.12	9.67	15.75	397.55	397.55	97.26	300.29
92+00.	22.44	40.9	40.9	8.4	16.73	438.45	438.45	114	324.45
92+50.	46.73	64.05	64.05	0	7.78	502.5	502.5	121.77	380.73
93+00.	20.92	62.64	62.64	8.98	8.32	565.14	565.14	130.09	435.05
93+50.	21.76	39.51	39.51	7.95	15.68	604.65	604.65	145.77	458.88
94+00.	20.28	38.92	38.92	11.71	18.21	643.57	643.57	163.98	479.59
94+50.	25.86	42.72	42.72	8.63	18.83	686.29	686.29	182.82	503.47
95+00.	25.93	47.95	47.95	9.76	17.02	734.24	734.24	199.84	534.4
95+50.	23.14	45.43	45.43	12.18	20.31	779.67	779.67	220.15	559.52
96+00.	21.21	41.06	41.06	9.41	19.99	820.74	820.74	240.15	580.59
96+50.	20.62	38.73	38.73	19.46	26.73	859.47	859.47	266.88	592.59
96+58.89	15.39	5.93	5.93	20.86	6.64	865.4	865.4	273.52	591.88
96+60.	15.28	0.63	0.63	21.02	0.86	866.03	866.03	274.38	591.65
96+70.	15.8	5.76	5.76	2.15	4.29	871.78	871.78	278.67	593.11
96+80.	0	2.93	2.93	0	0.4	874.71	874.71	279.07	595.64
96+90.	0	0	0	0	0	874.71	874.71	279.07	595.64
97+00.	0	0	0	0	0	874.71	874.71	279.07	595.64

Stage 3
Oak Crest Dr

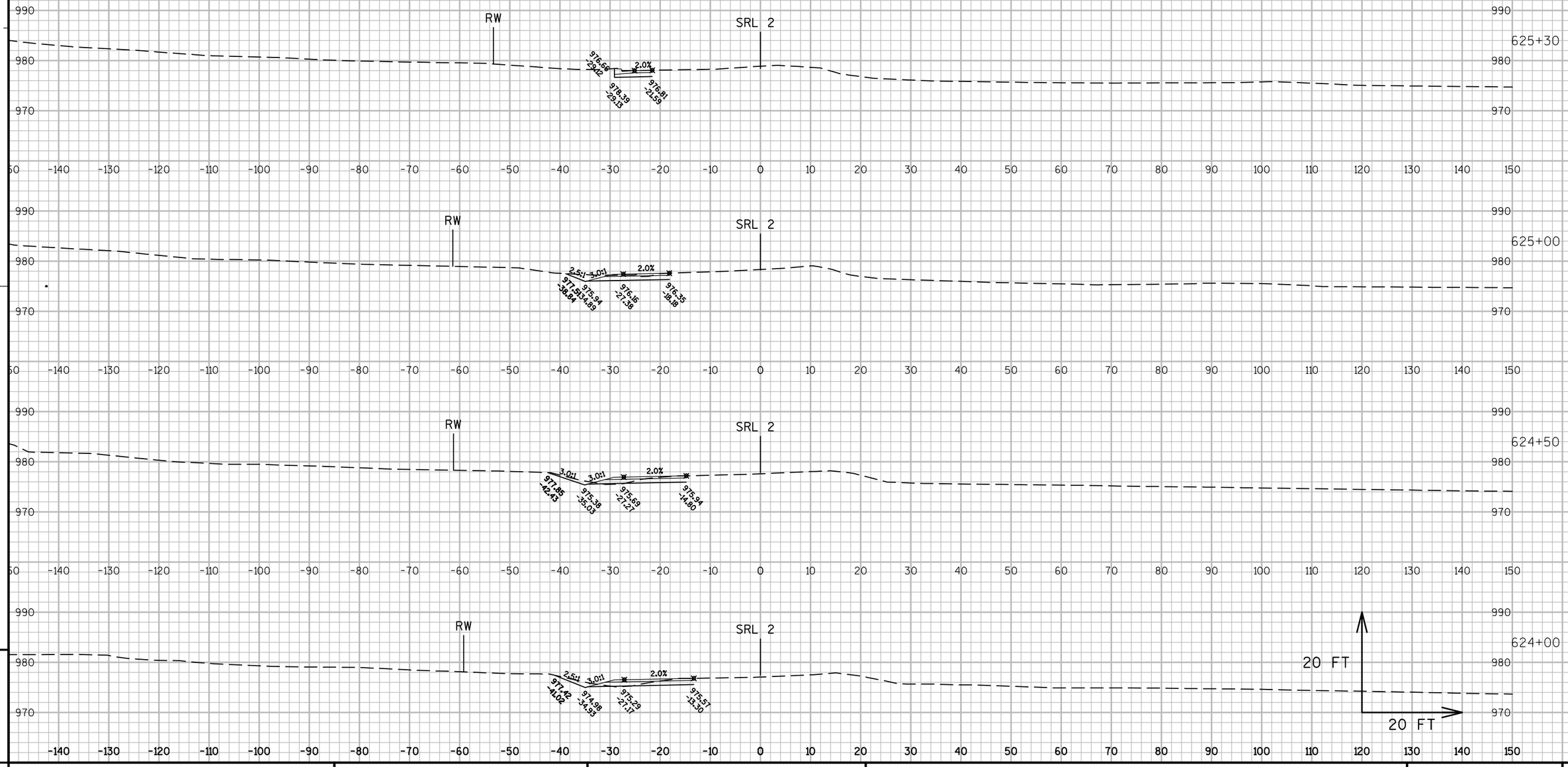
Station	Cut Area (Sq.ft.)	Cut Volume (Cu.yd.)	Reusable Volume (Cu.yd.)	Fill Area (Sq.ft.)	Fill Volume (Cu.yd.)	Cum. Cut Vol. (Cu.yd.)	Cum. Reusable Vol. (Cu.yd.)	Cum. Fill Vol. (Cu.yd.)	Cum. Net Vol. (Cu.yd.)
18+38.	14.62	0	0	5.81	0	0	0	0	0
18+50.	15.69	6.74	6.74	4.12	2.21	6.74	6.74	2.21	4.53
19+00.	35.79	47.66	47.66	0	3.81	54.4	54.4	6.02	48.38
19+36.09	13.54	32.97	32.97	17.62	11.78	87.37	87.37	17.79	69.57
19+44.43	14.62	4.35	4.35	19.26	5.69	91.71	91.71	23.49	68.23
19+50.	14.69	3.02	3.02	17.21	3.76	94.74	94.74	27.25	67.49
19+65.6	0	4.24	4.24	0	4.97	98.98	98.98	32.22	66.76



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET 825	E

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 2:03 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49



9

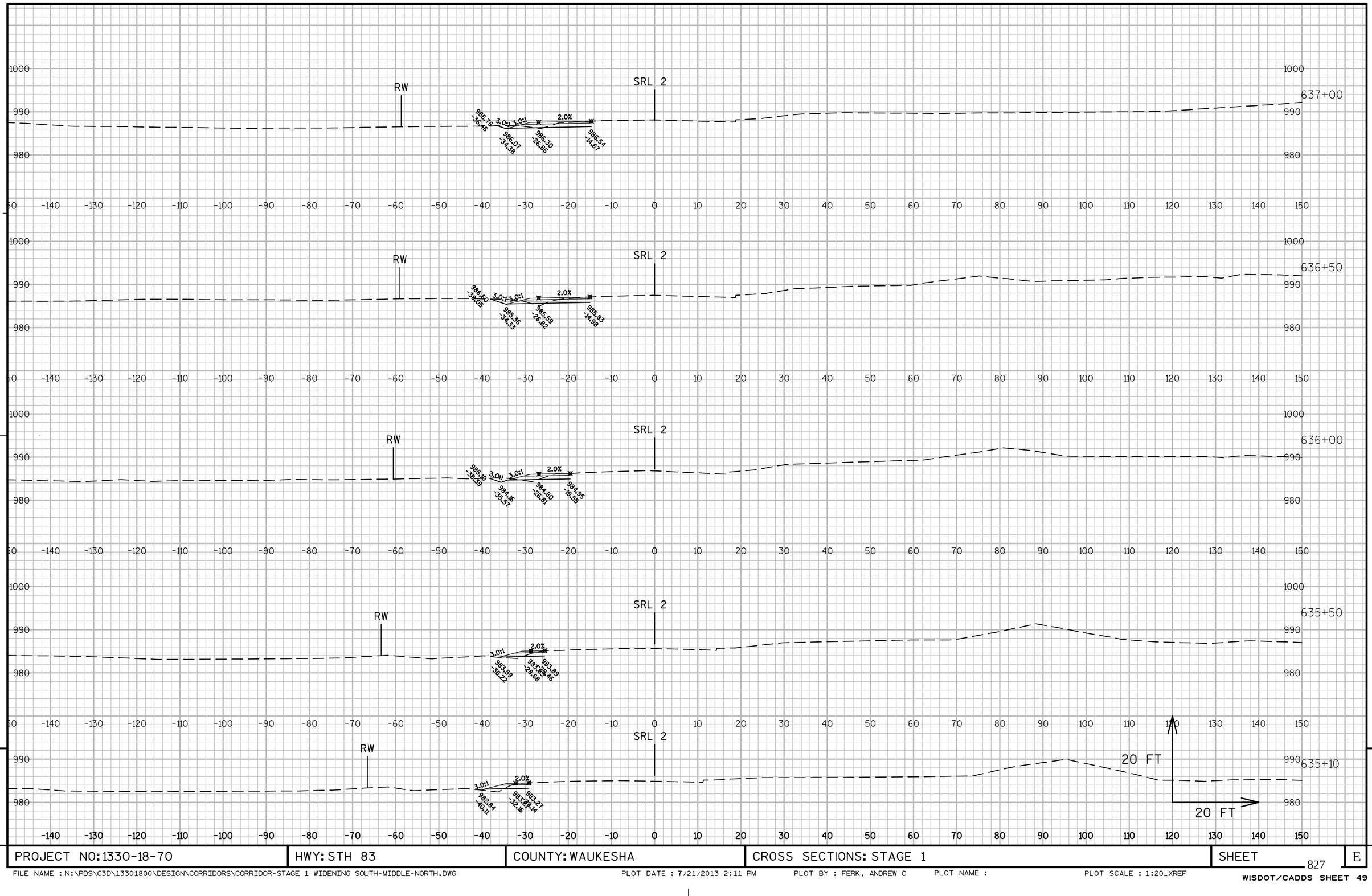
9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET	E

826

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 2:03 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF

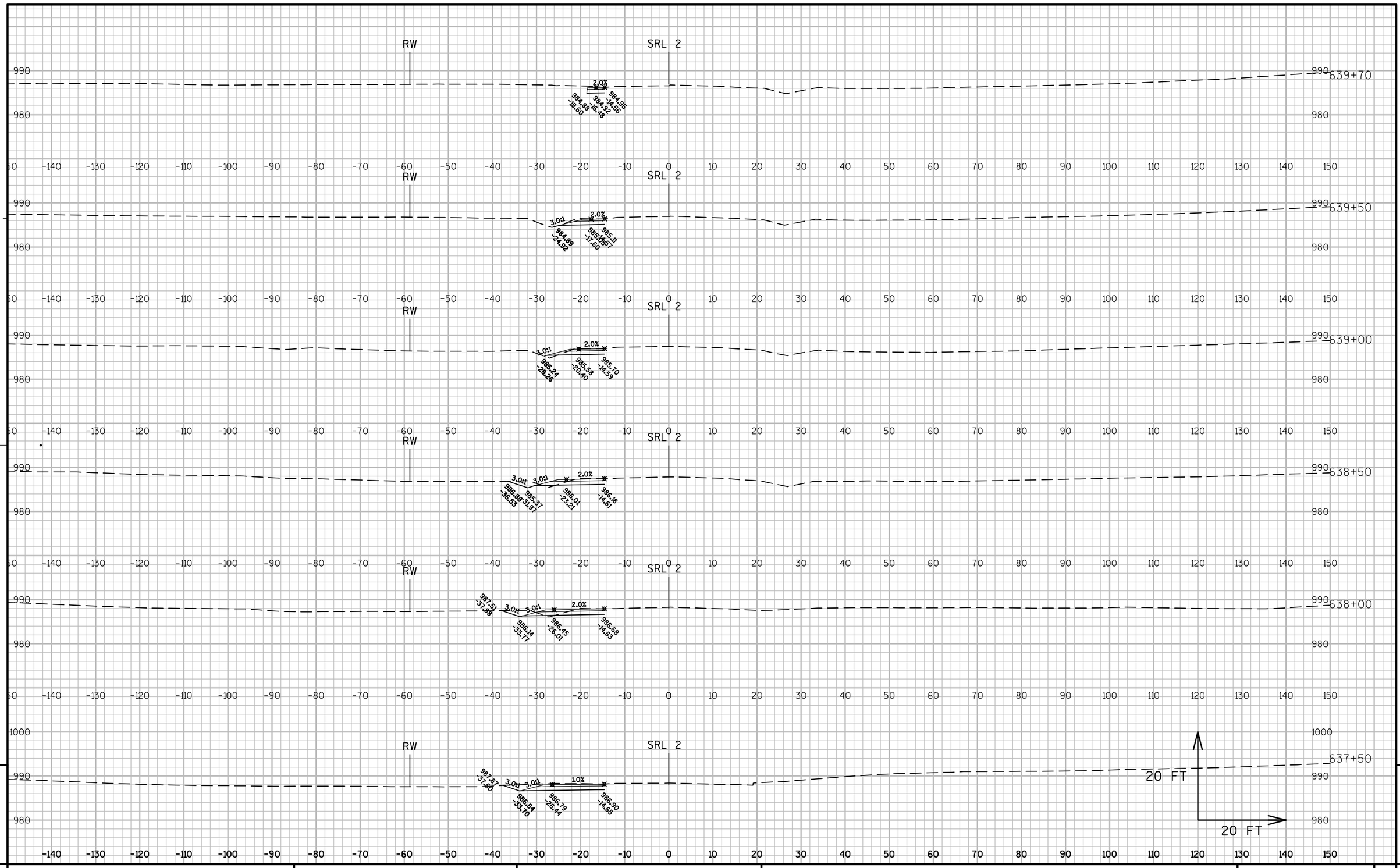
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET 827	E

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 2:11 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

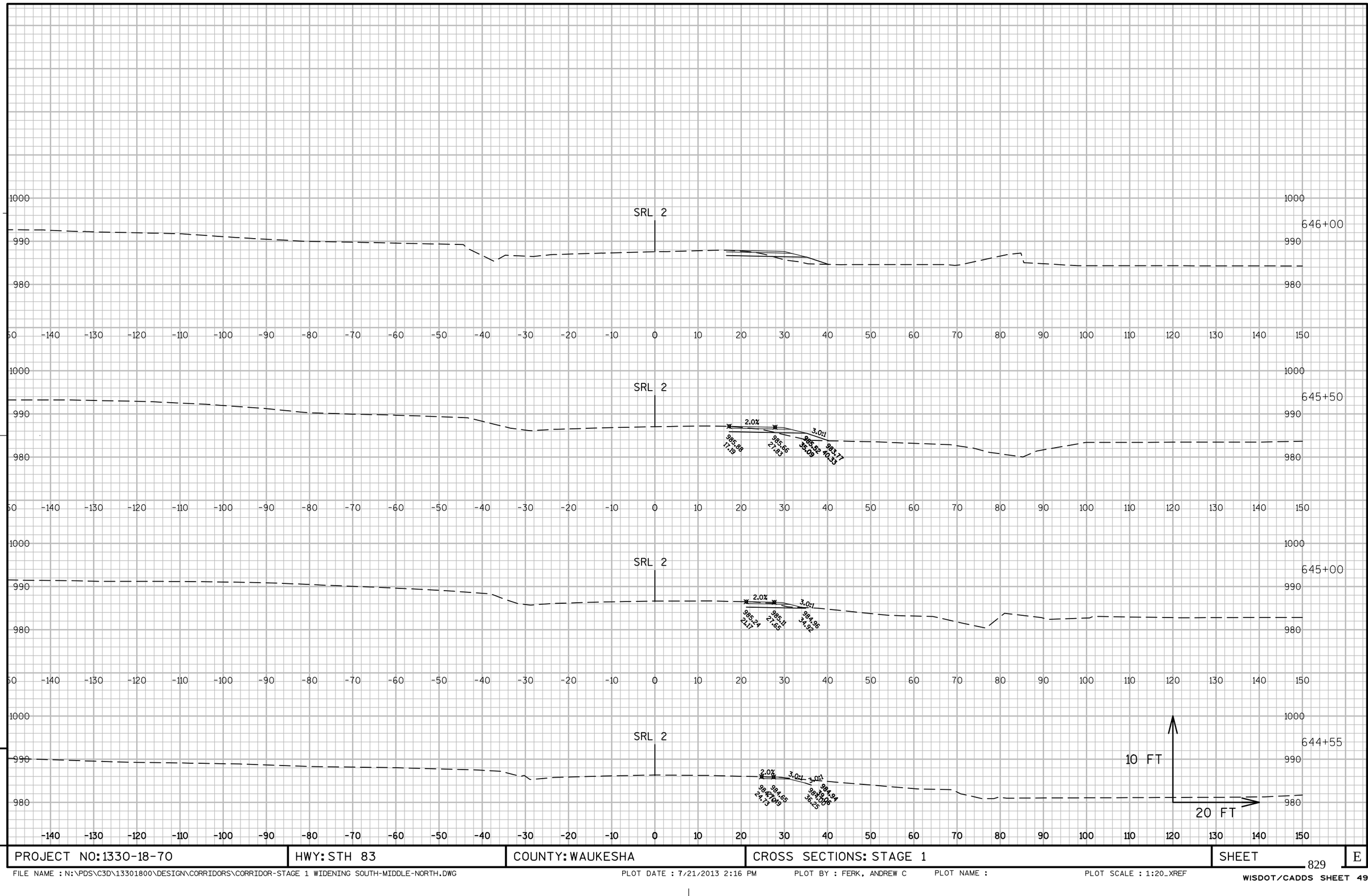


9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 2:12 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF



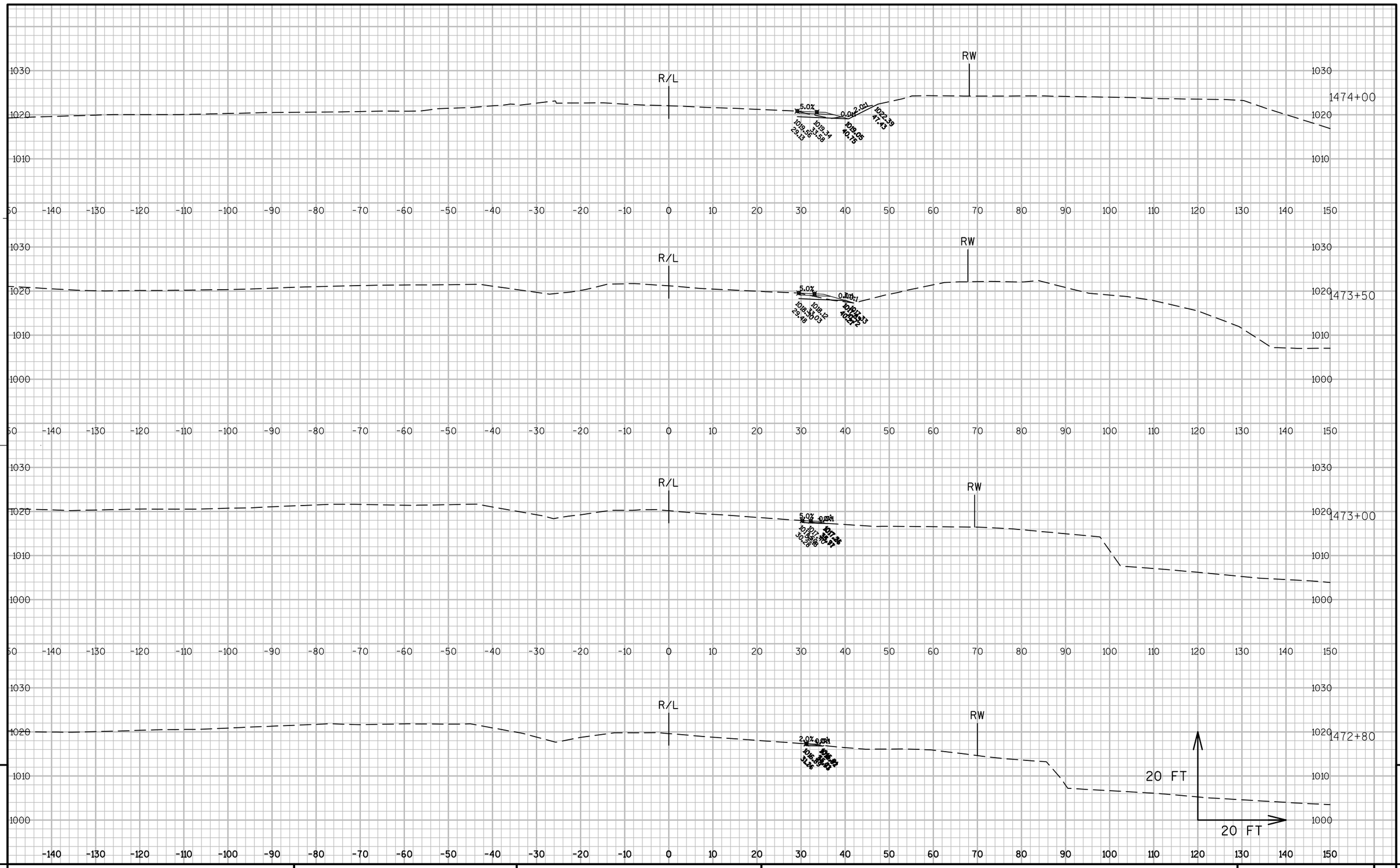
9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET 829	E

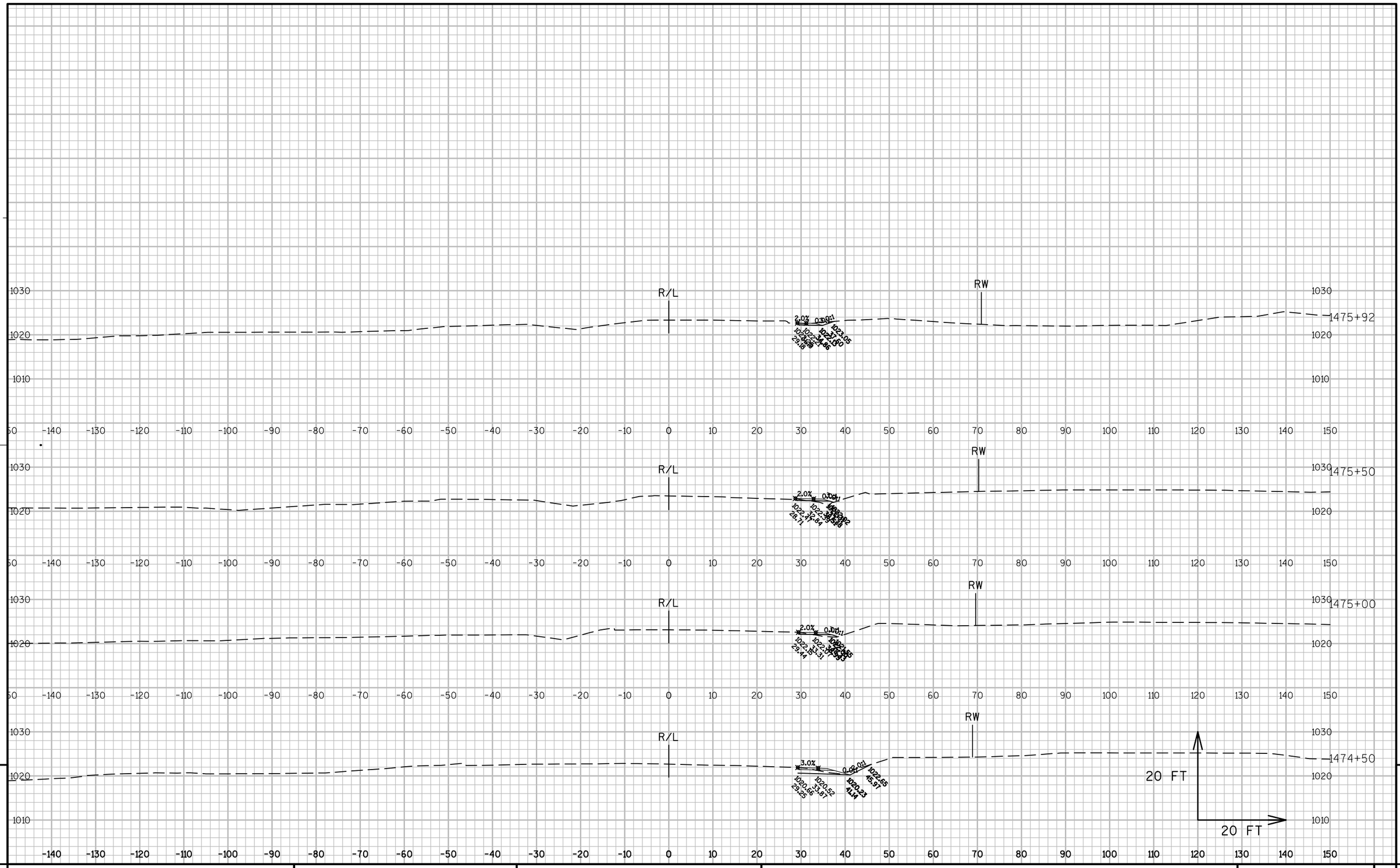
FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 2:16 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

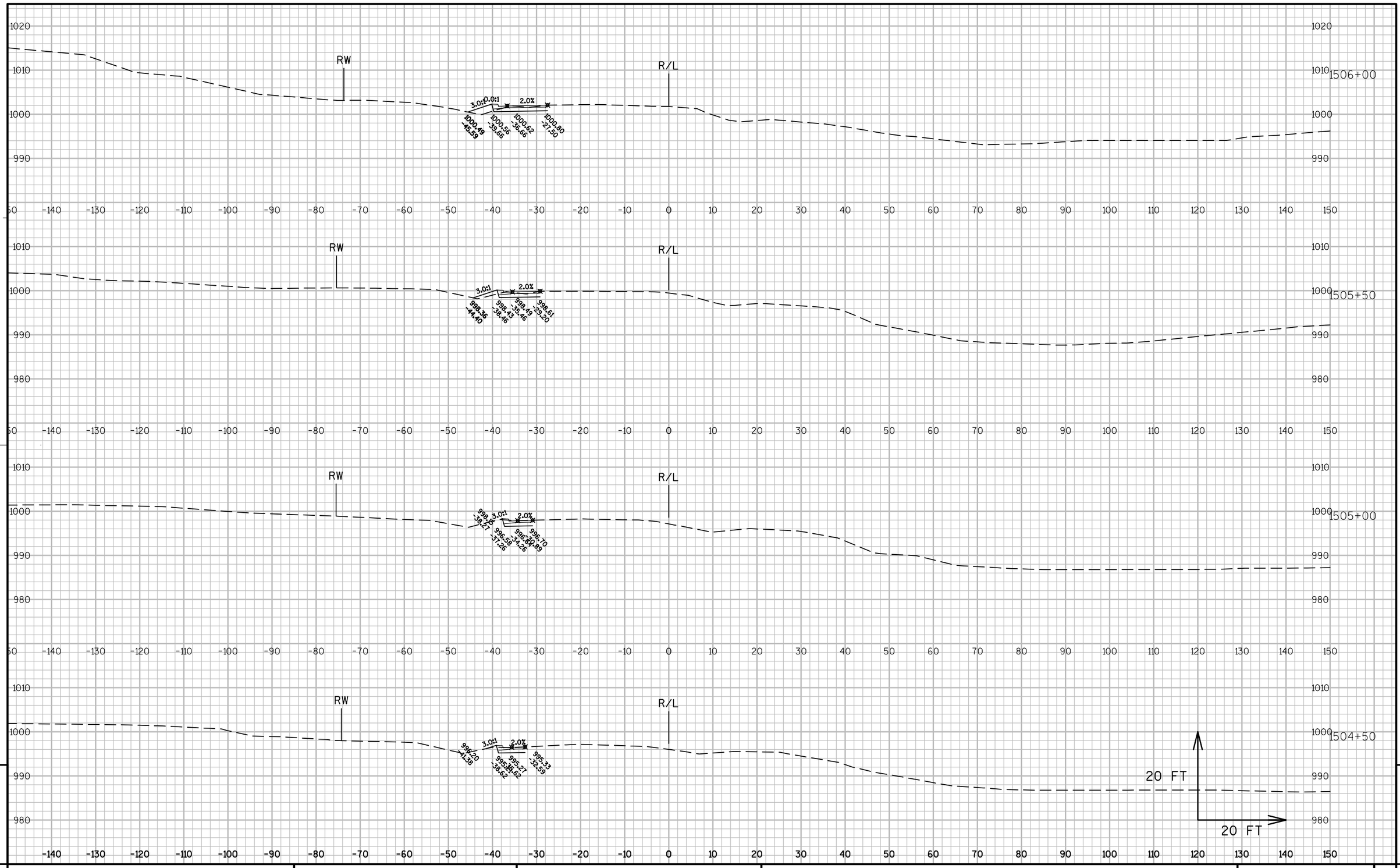


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET 830	E

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 4/2/2013 2:55 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF



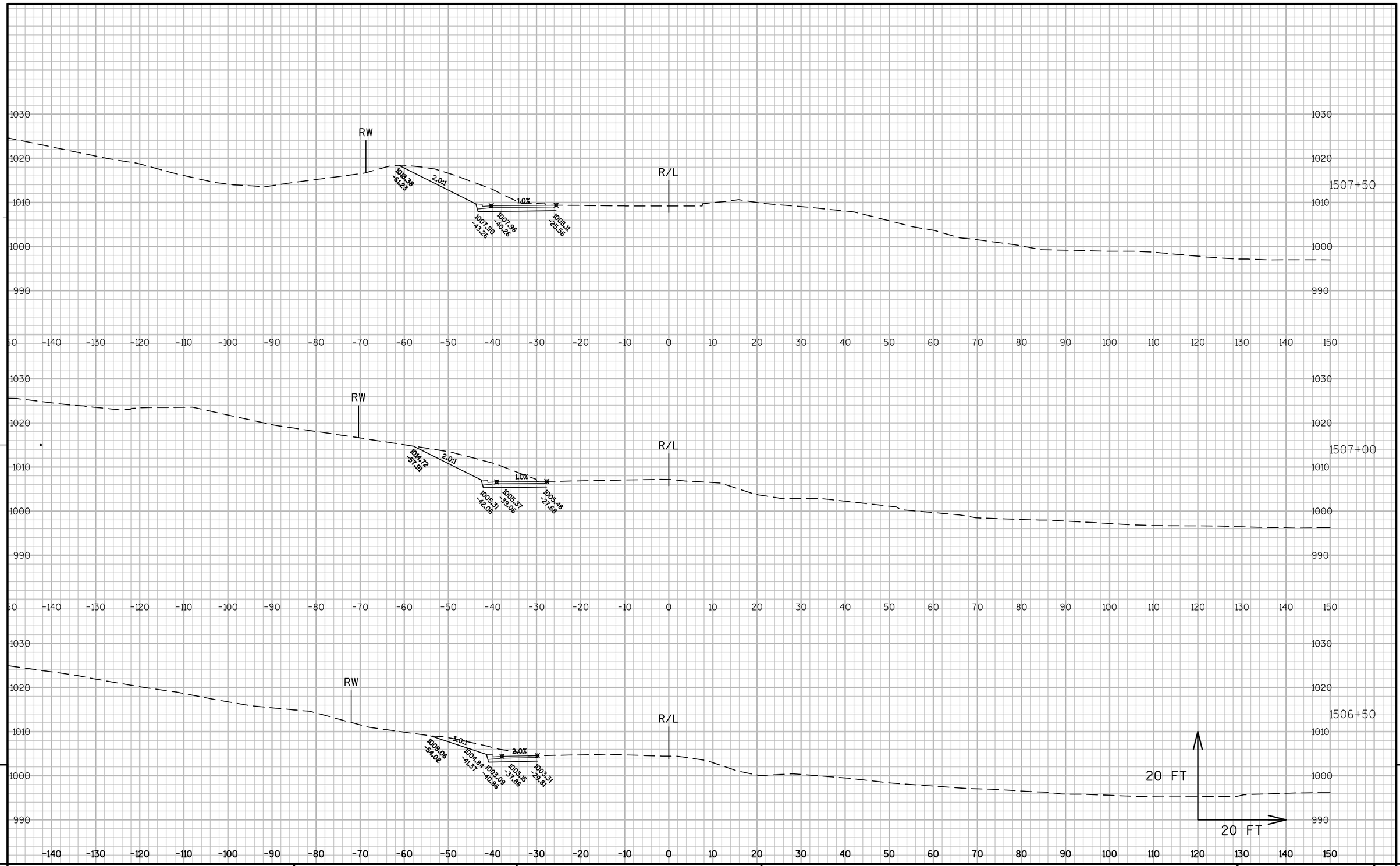
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET 832	E

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 2:53 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF

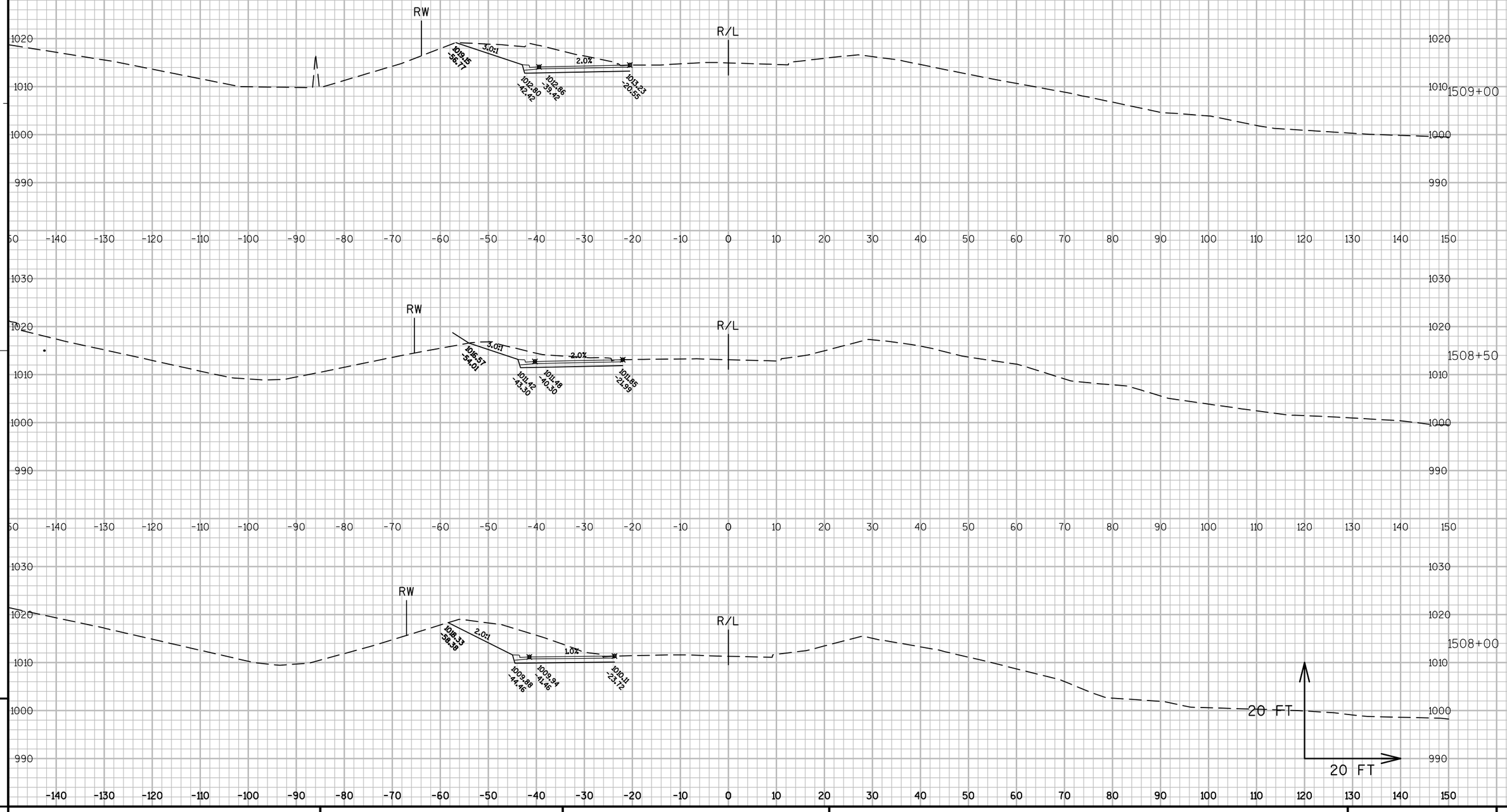
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET 833	E

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 2:53 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF

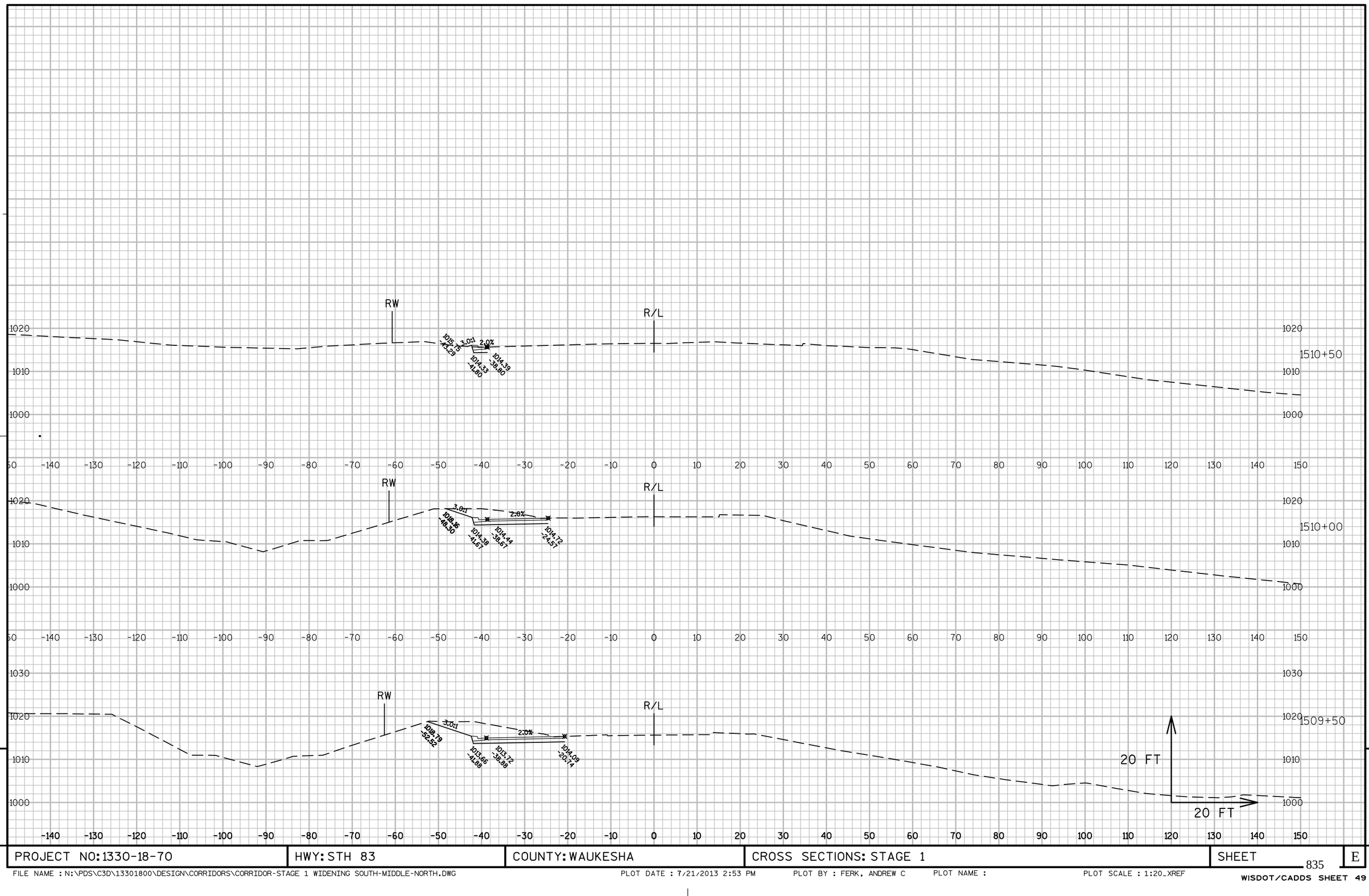
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET 834	E

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 2:53 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF

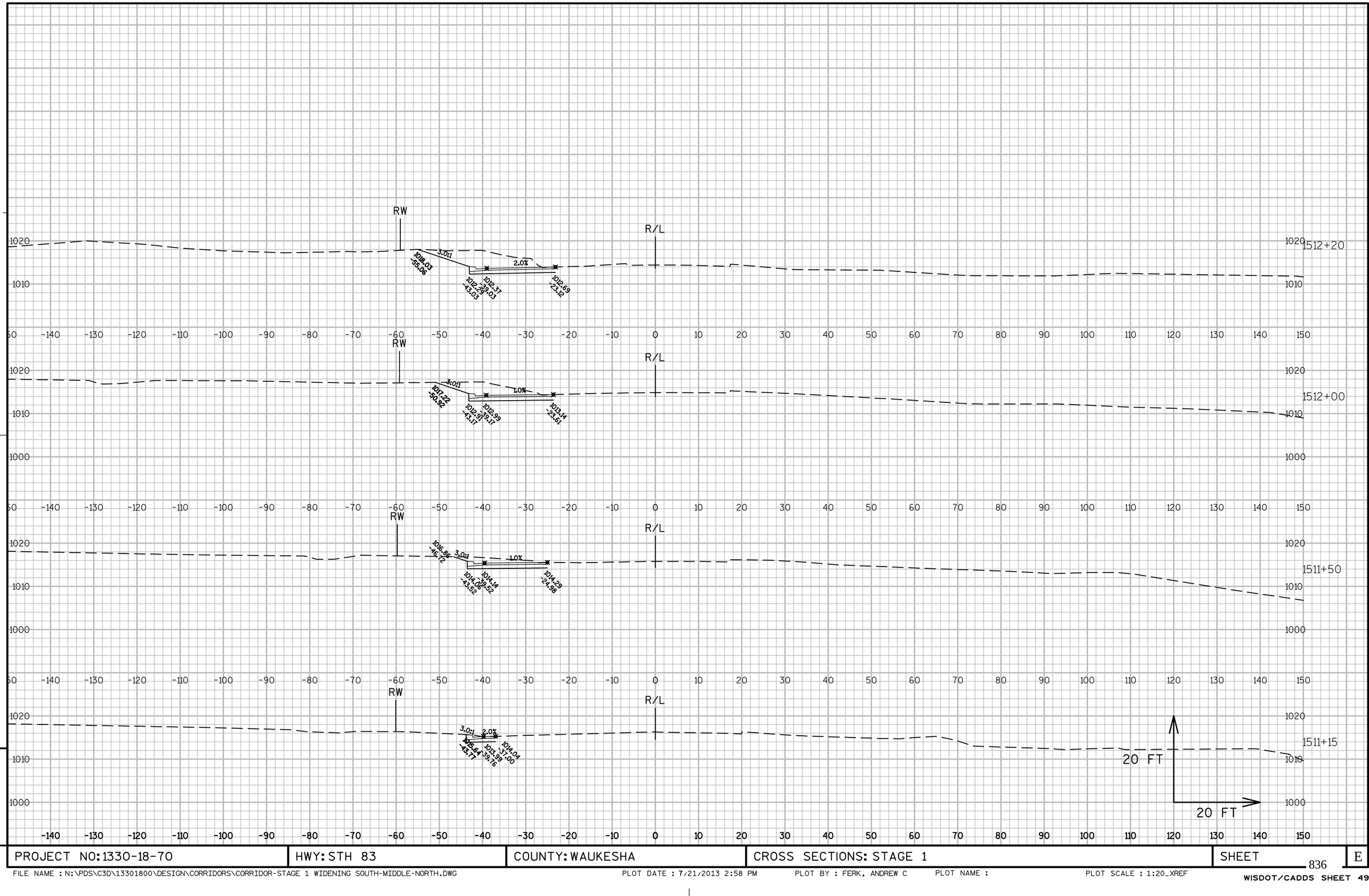
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET 835	E

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 2:53 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

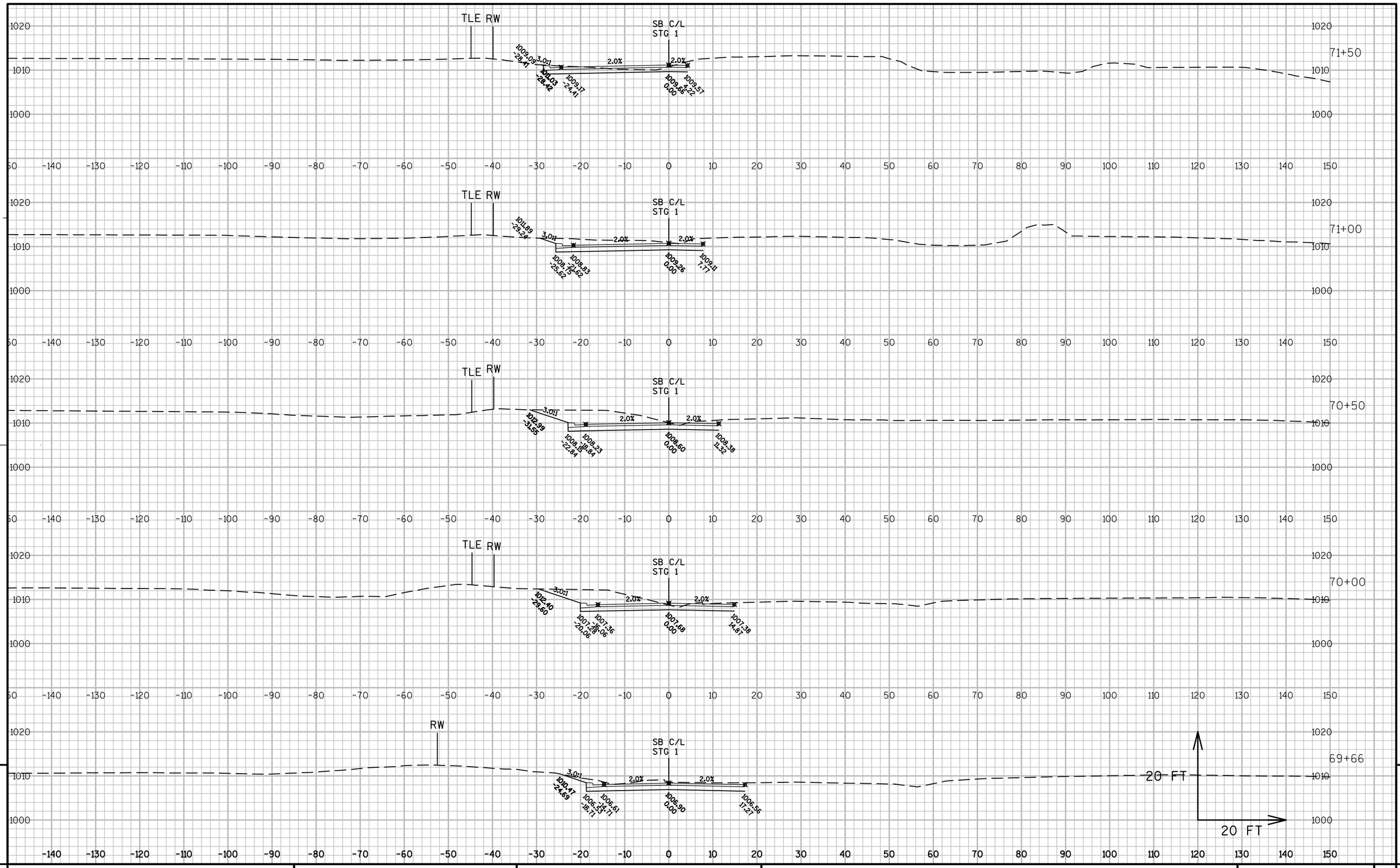


9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 2:58 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF

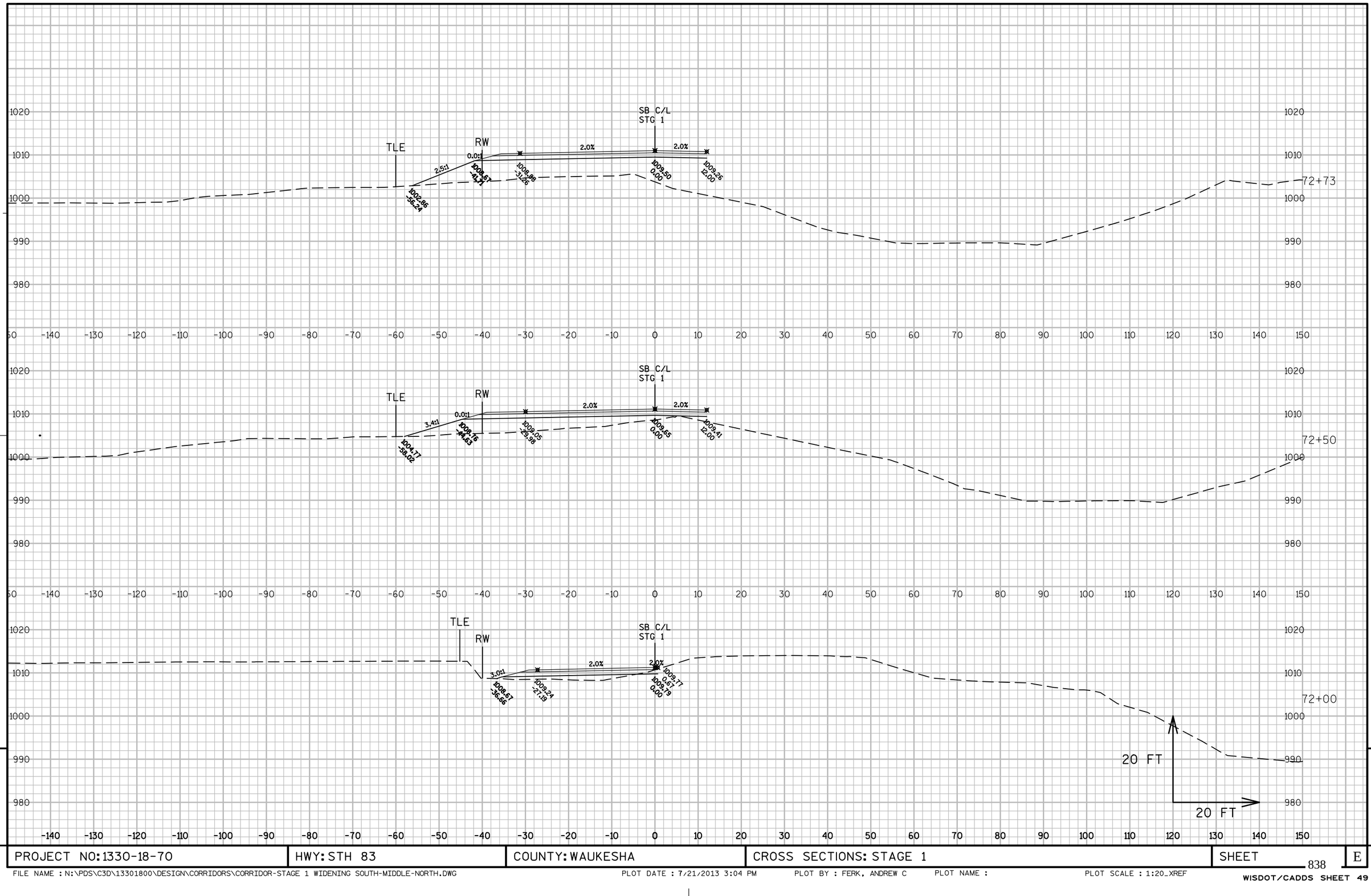


9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET	E

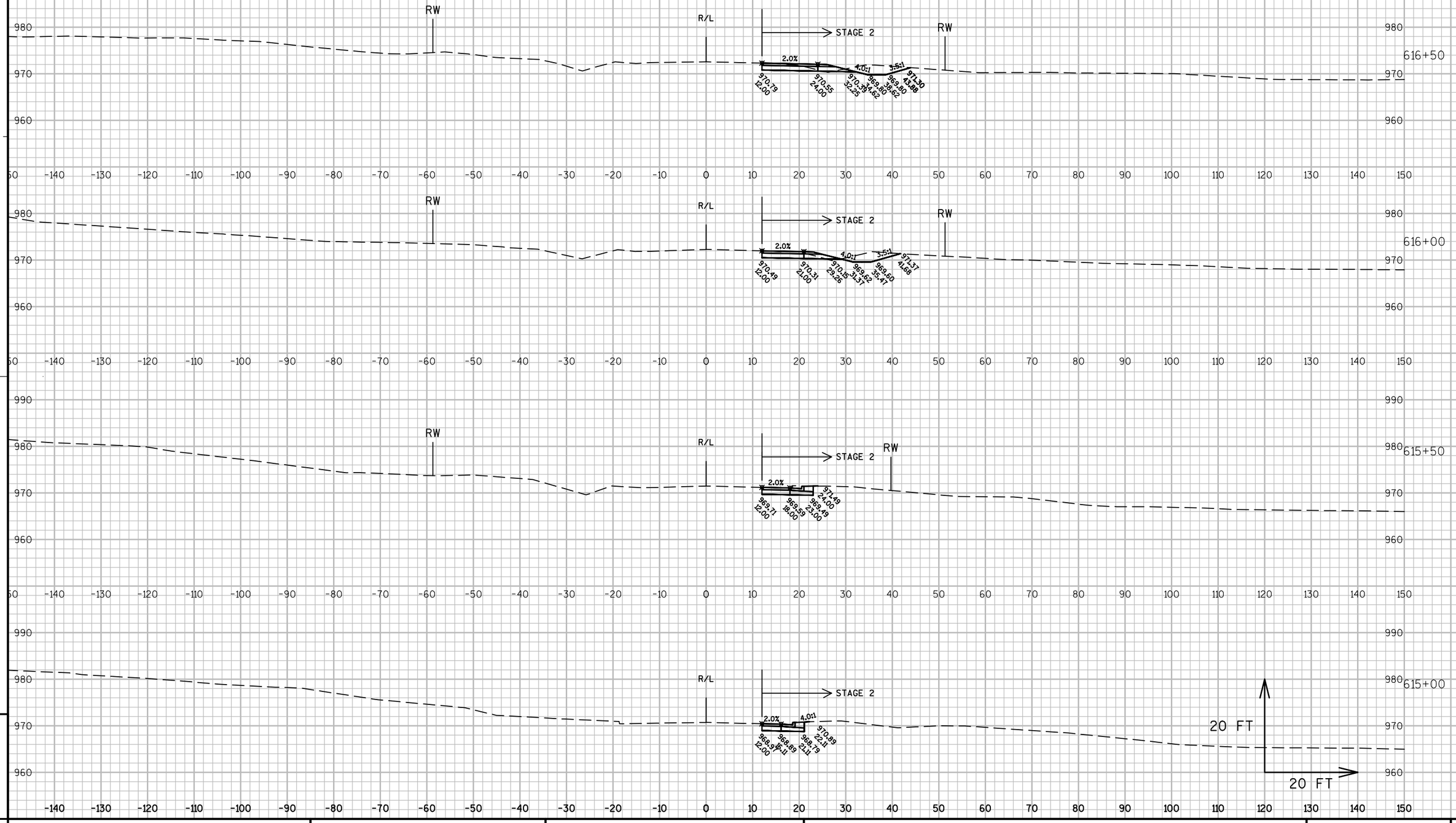
FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 3:04 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: STAGE 1	SHEET 838	E

FILE NAME : N:\PDS\C3D\13301800\DESIGN\CORRIDORS\CORRIDOR-STAGE 1 WIDENING SOUTH-MIDDLE-NORTH.DWG PLOT DATE : 7/21/2013 3:04 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

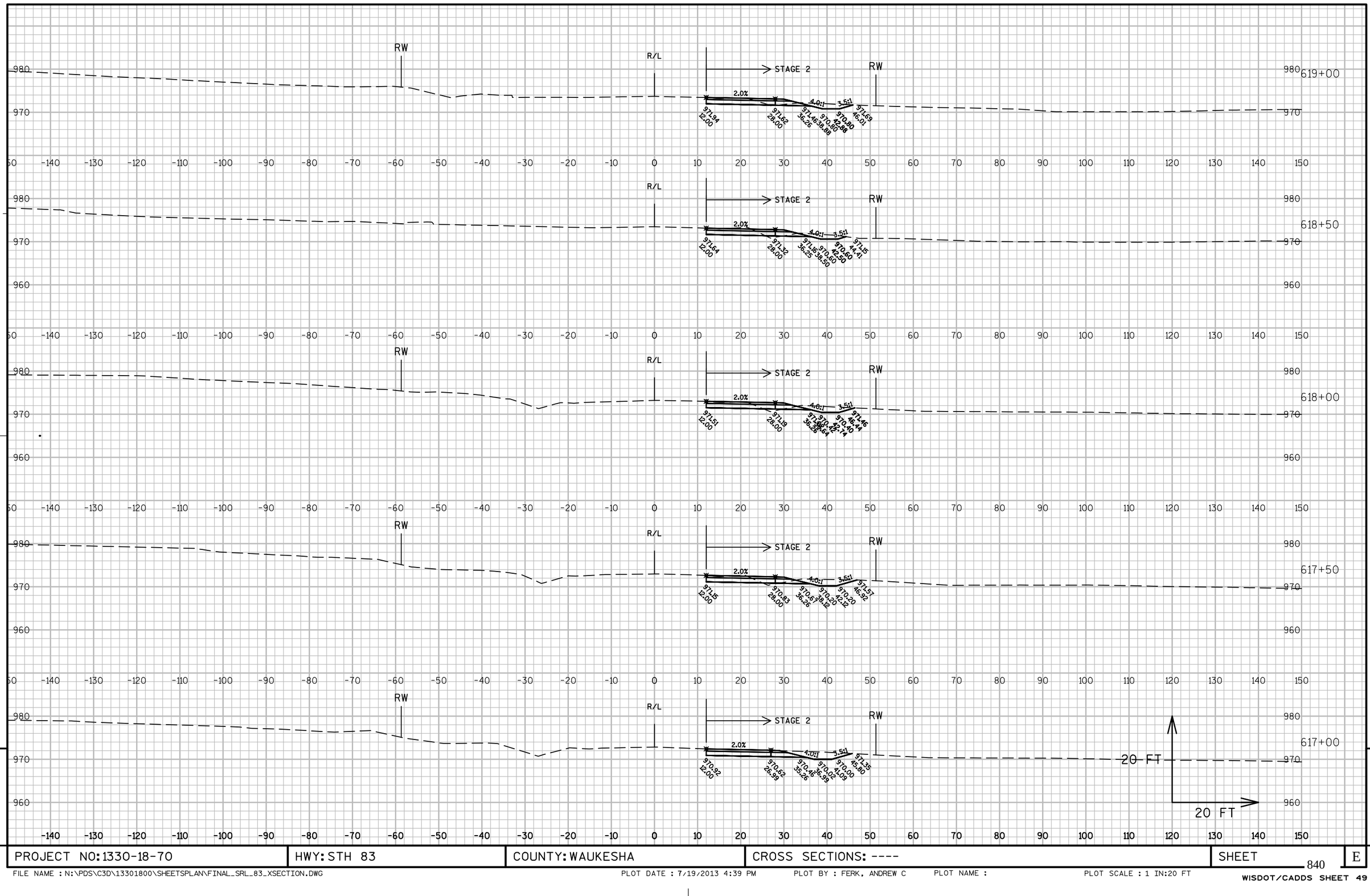


9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:39 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT



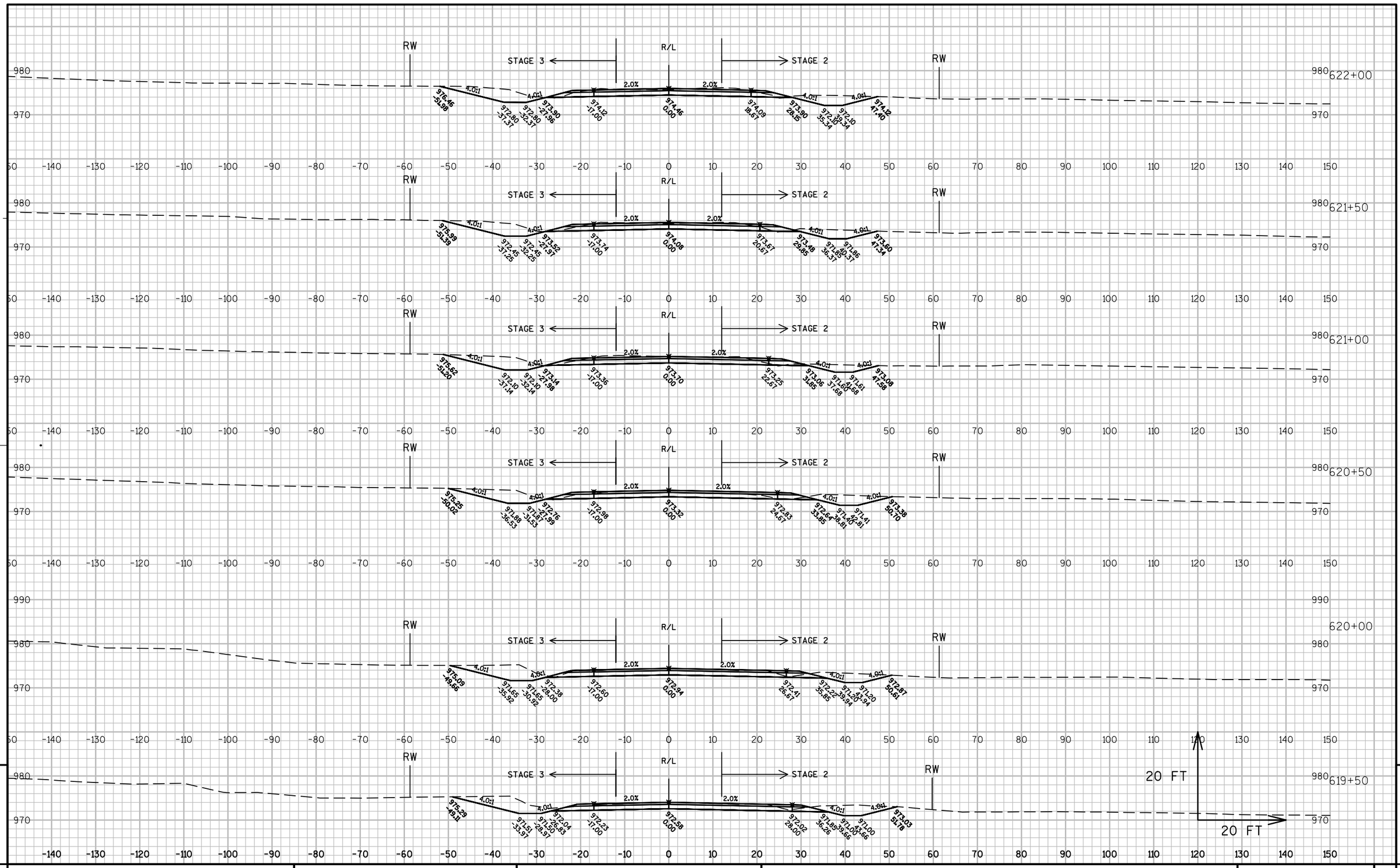
9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 840	E

9

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:39 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

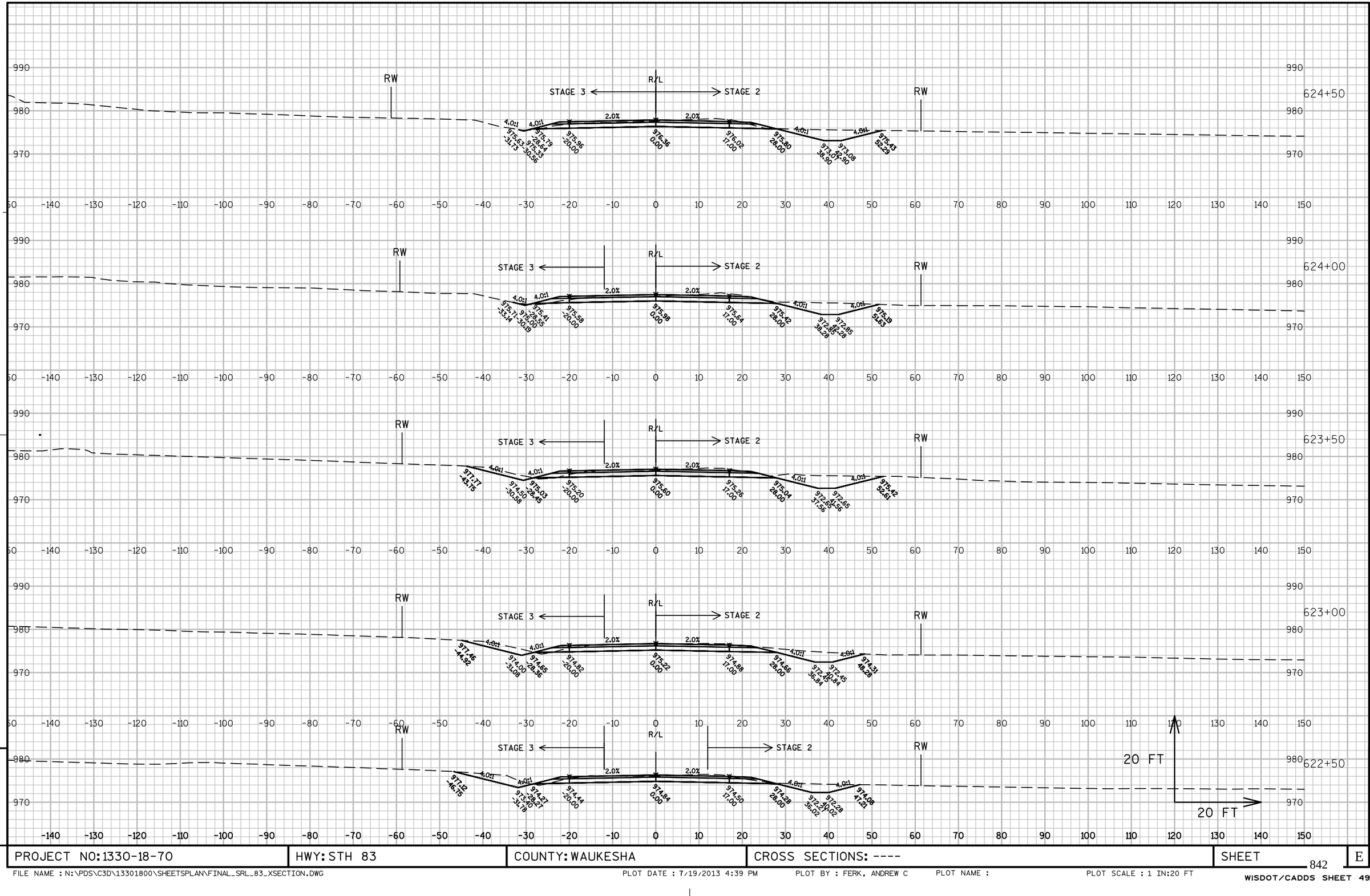


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

841

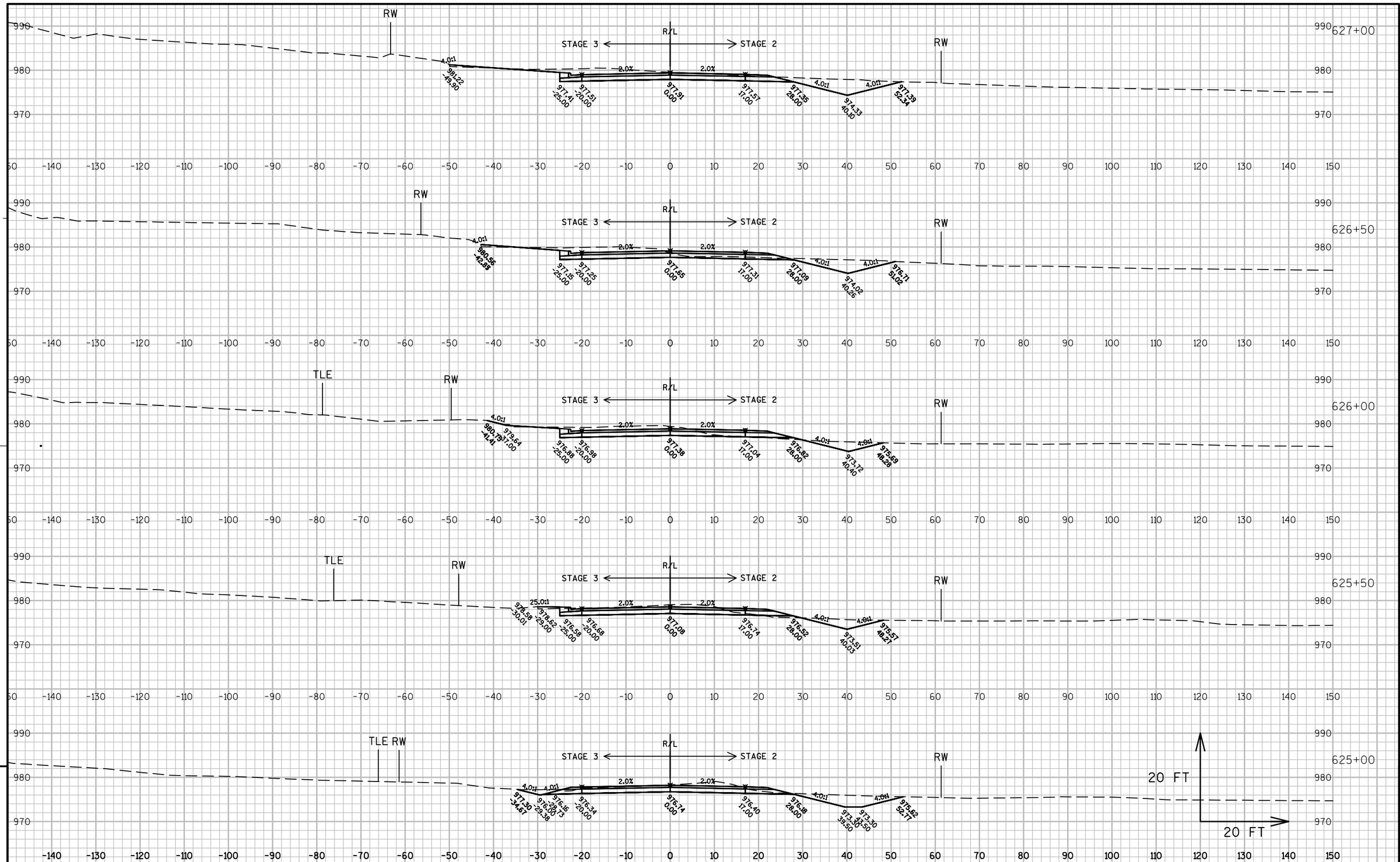
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:39 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 842	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:39 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT



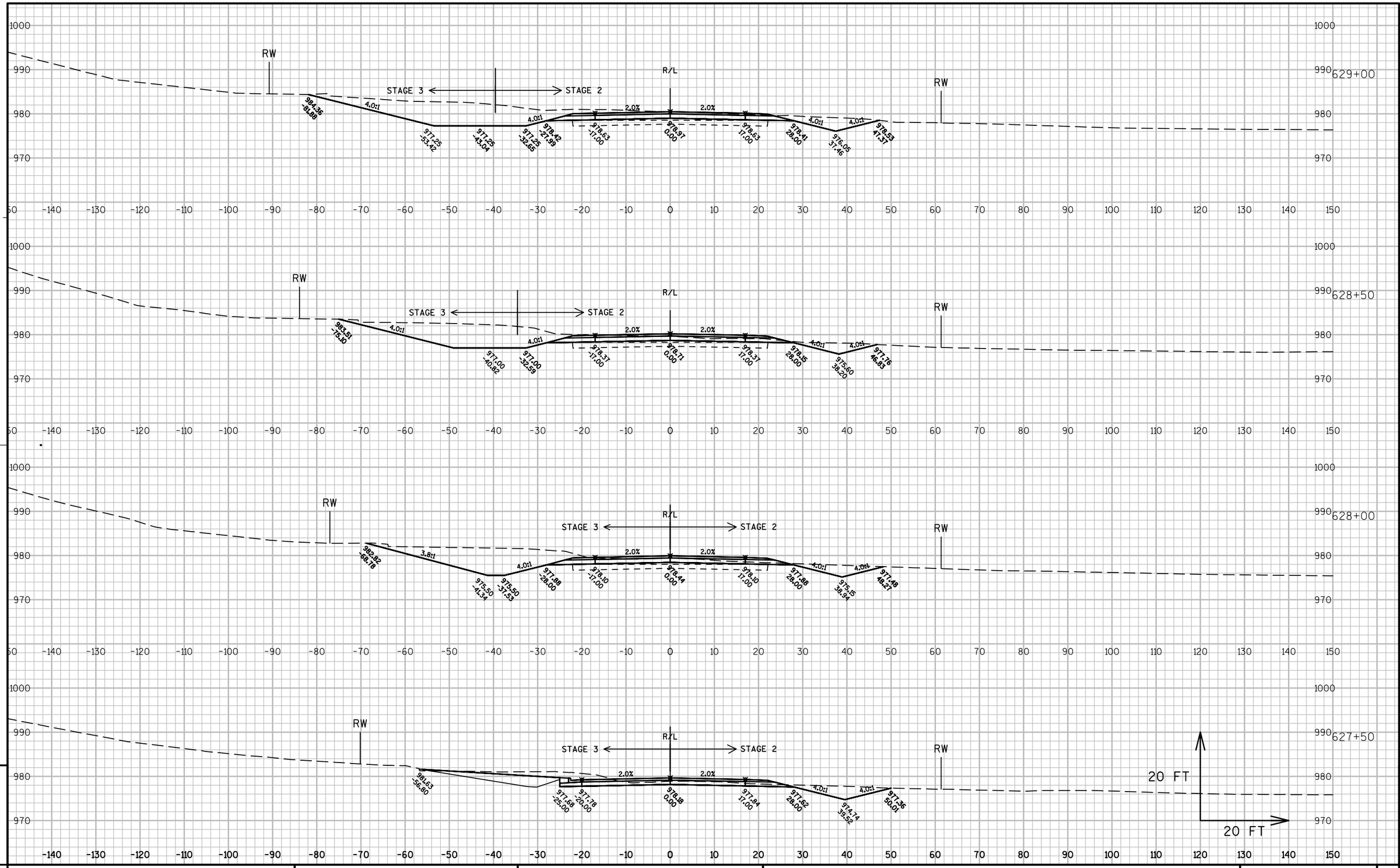
9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:39 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT

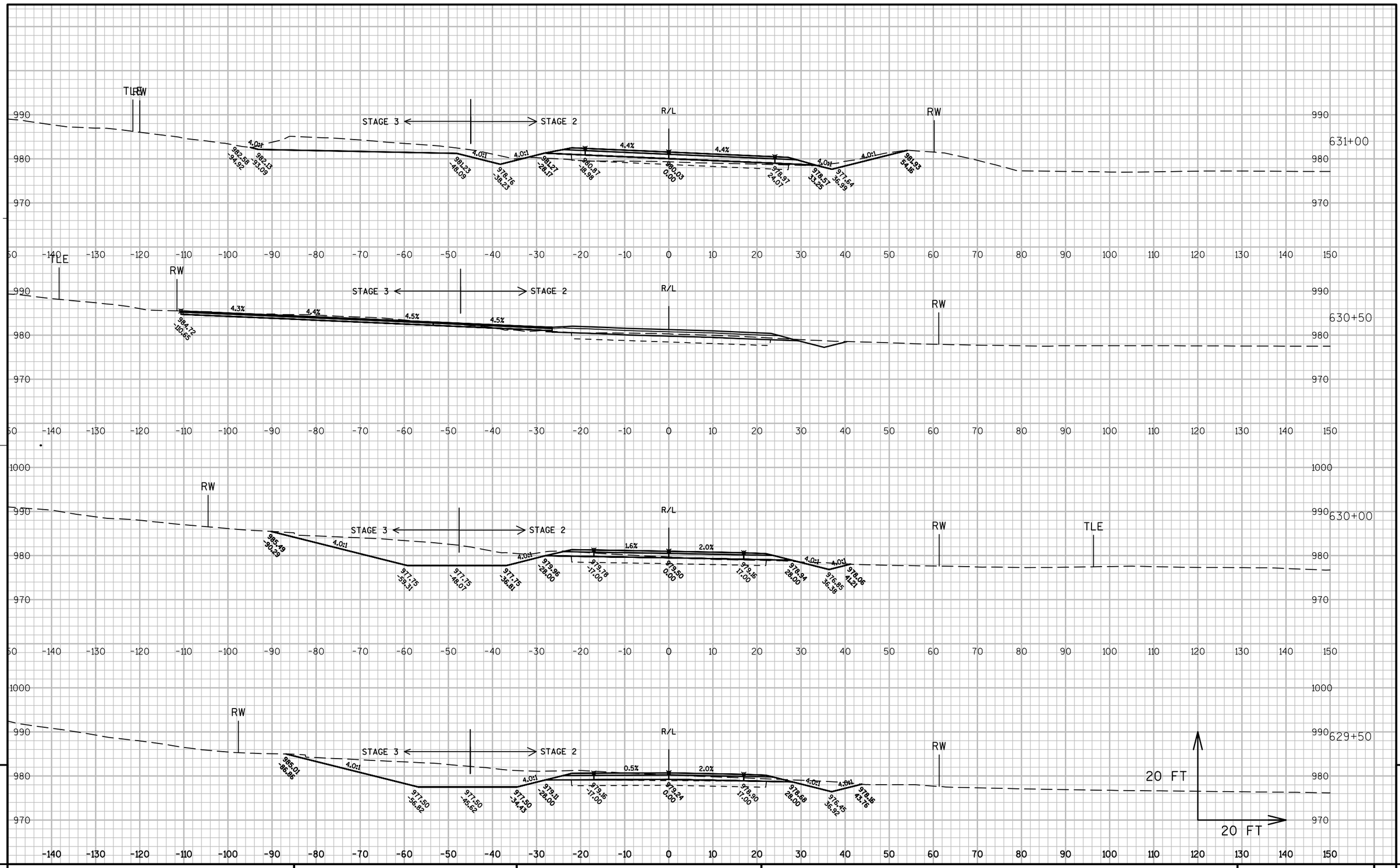
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 844 E

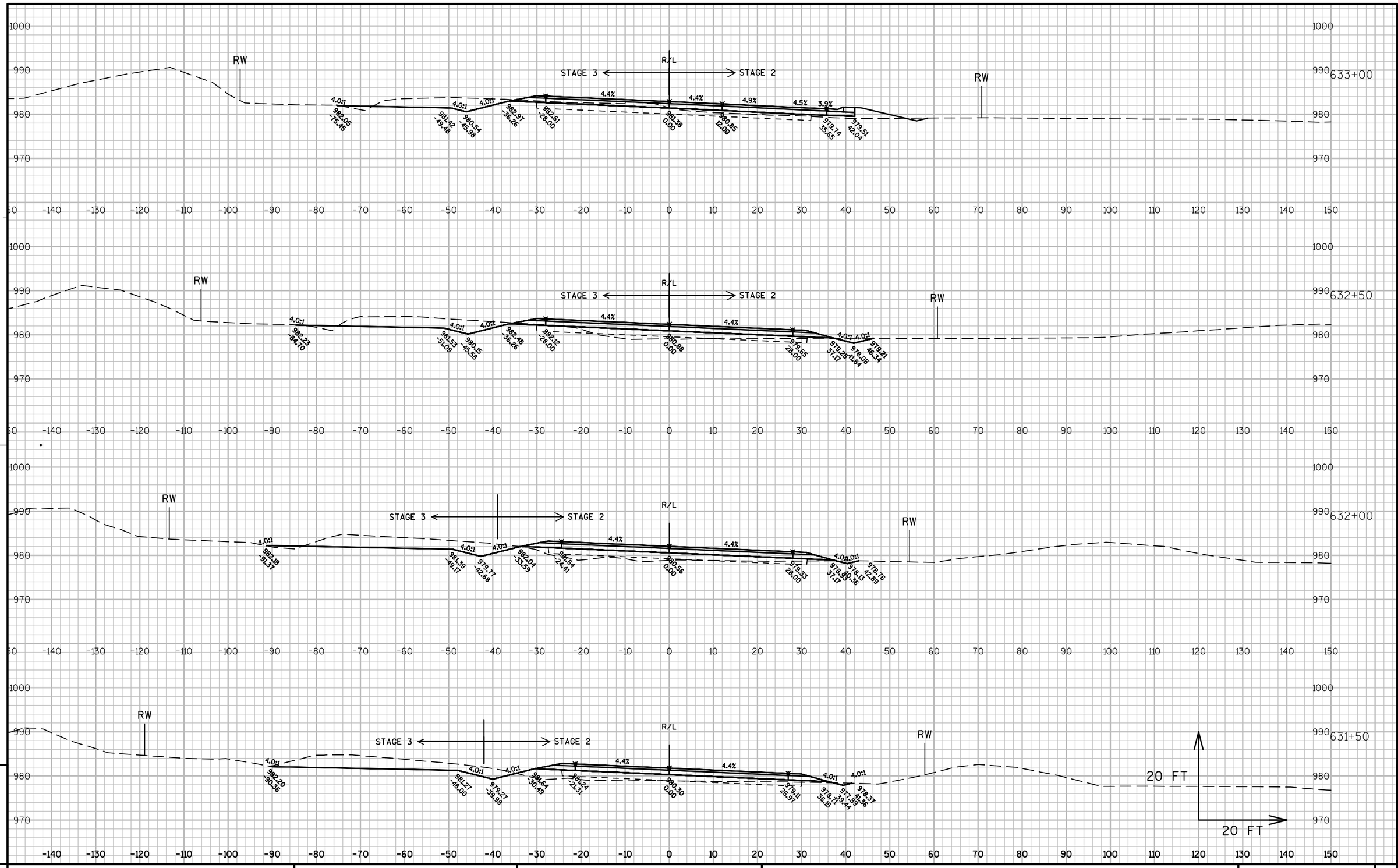
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:39 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



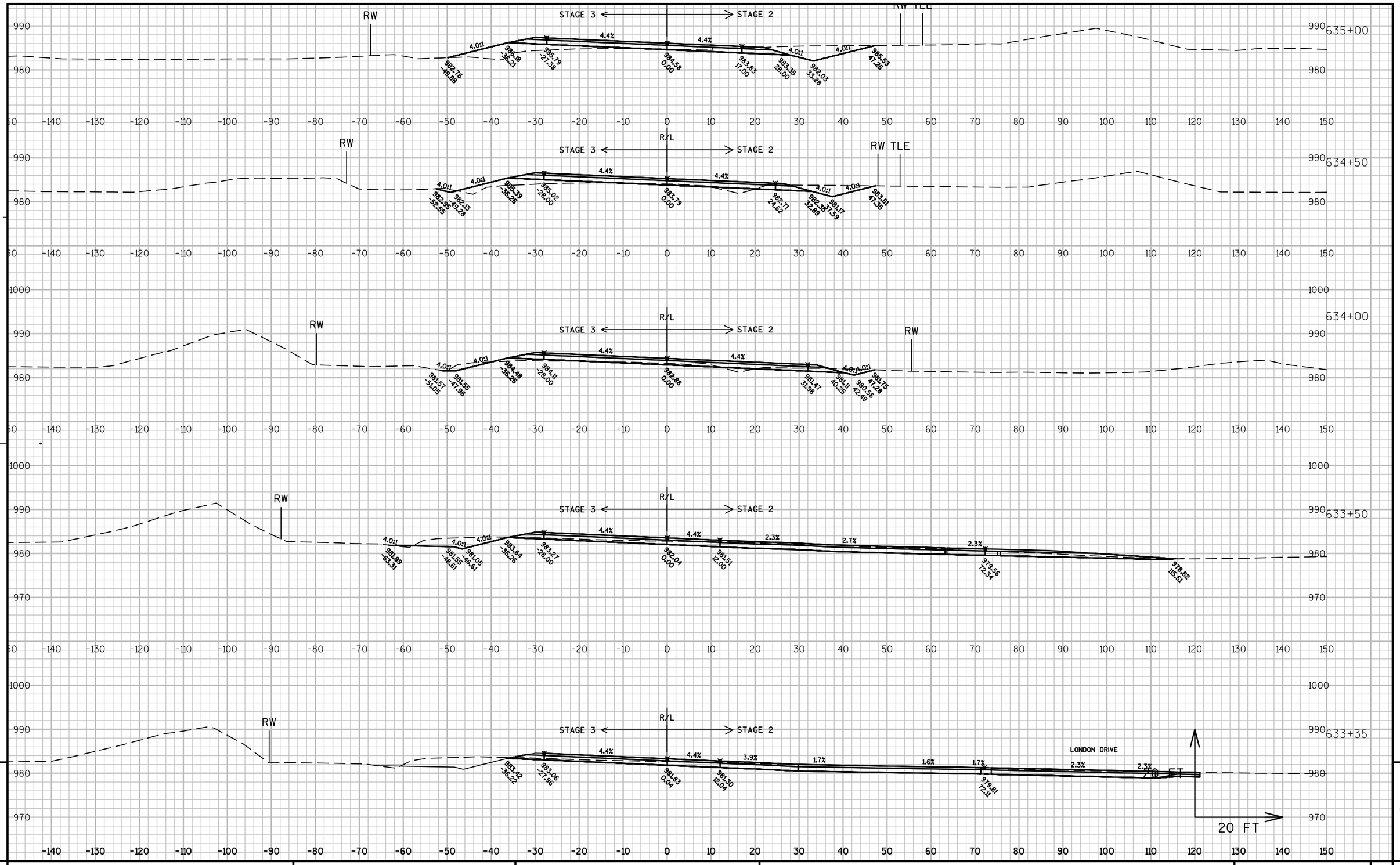
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:40 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

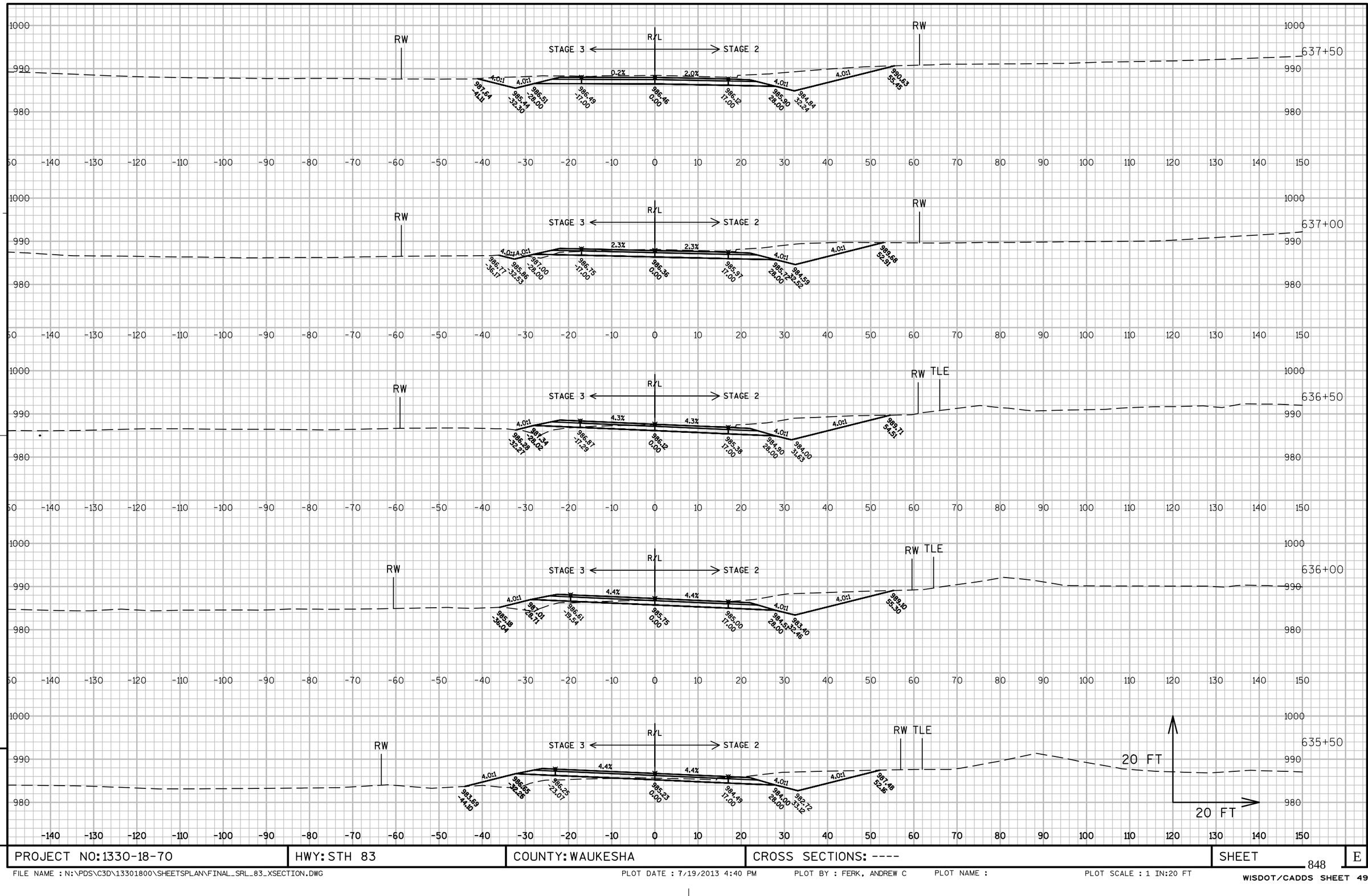
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:40 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 847 E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:40 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT

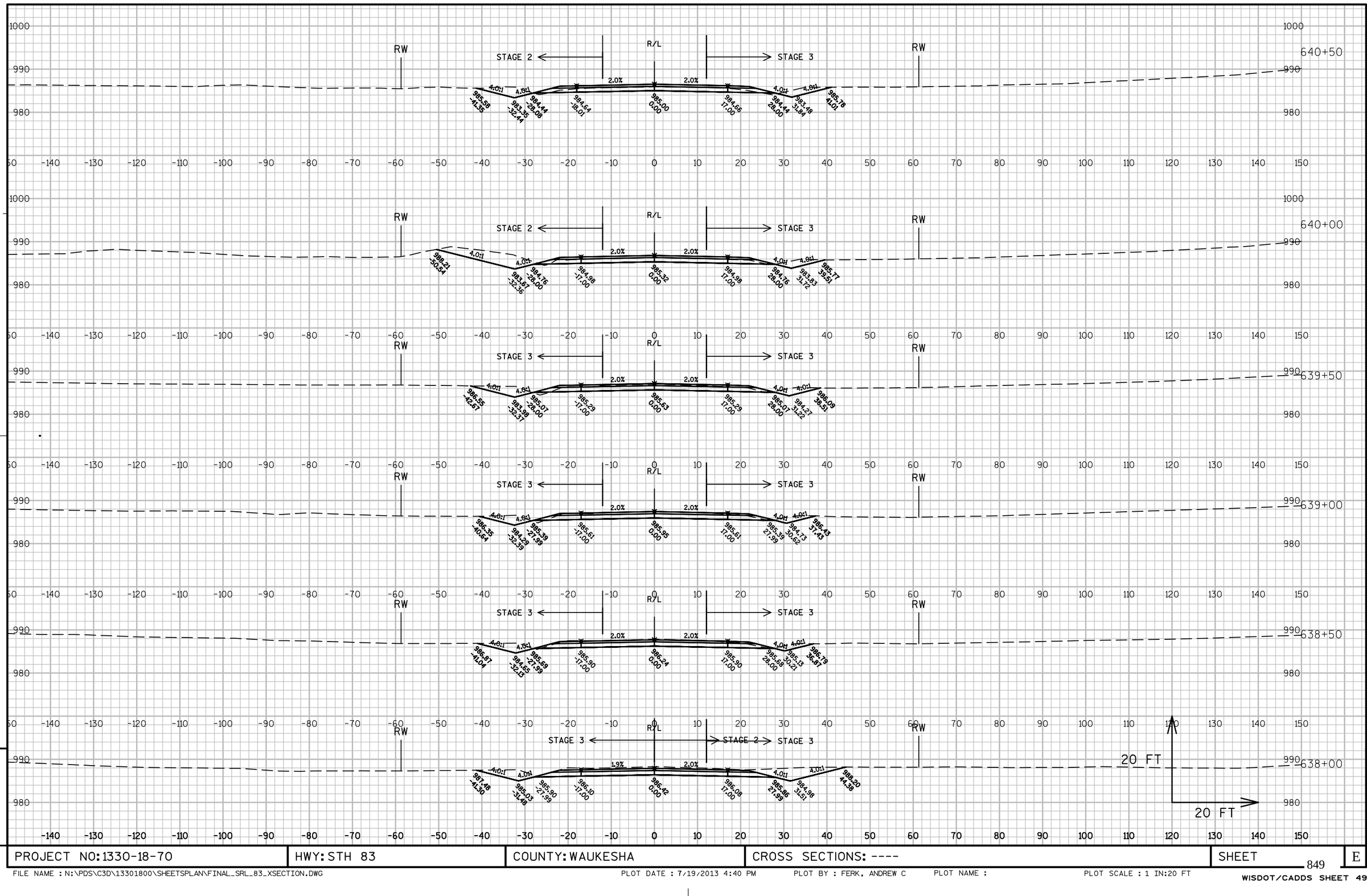
WISDOT/CADDS SHEET 49



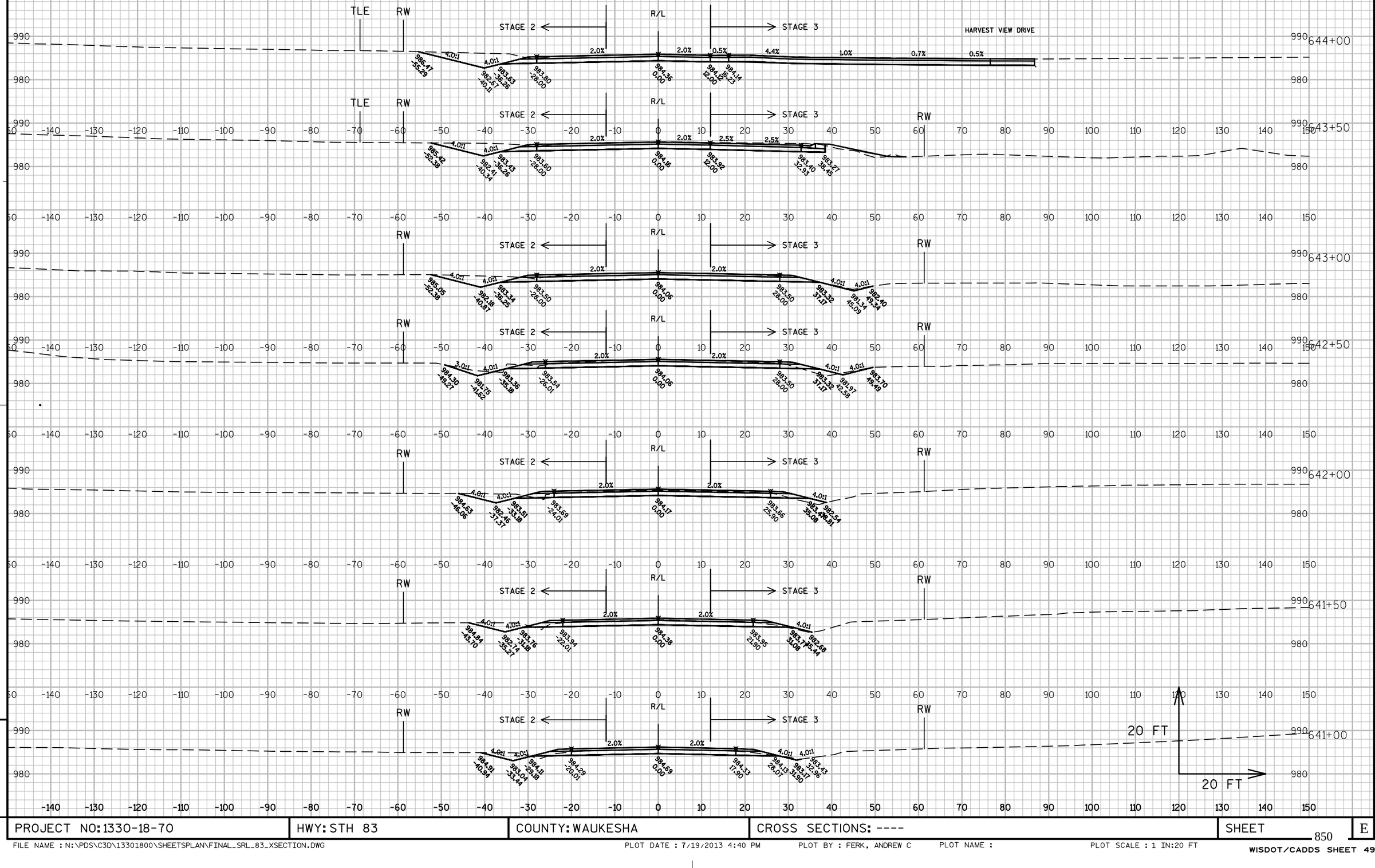
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:40 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



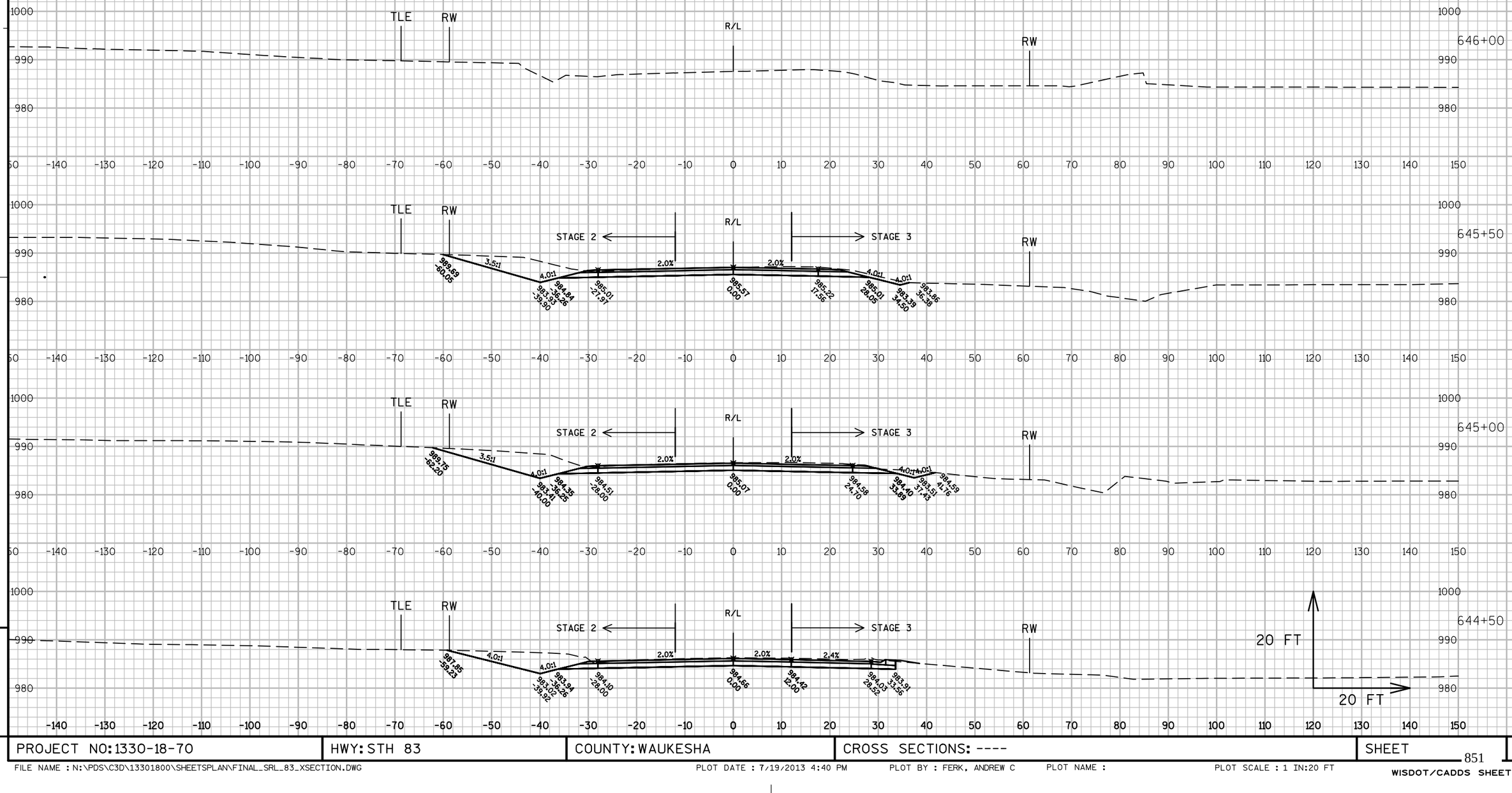
PROJECT NO:1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E



PROJECT NO:1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 850	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:40 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_SRL_83_XSECTION.DWG PLOT DATE : 7/19/2013 4:40 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT

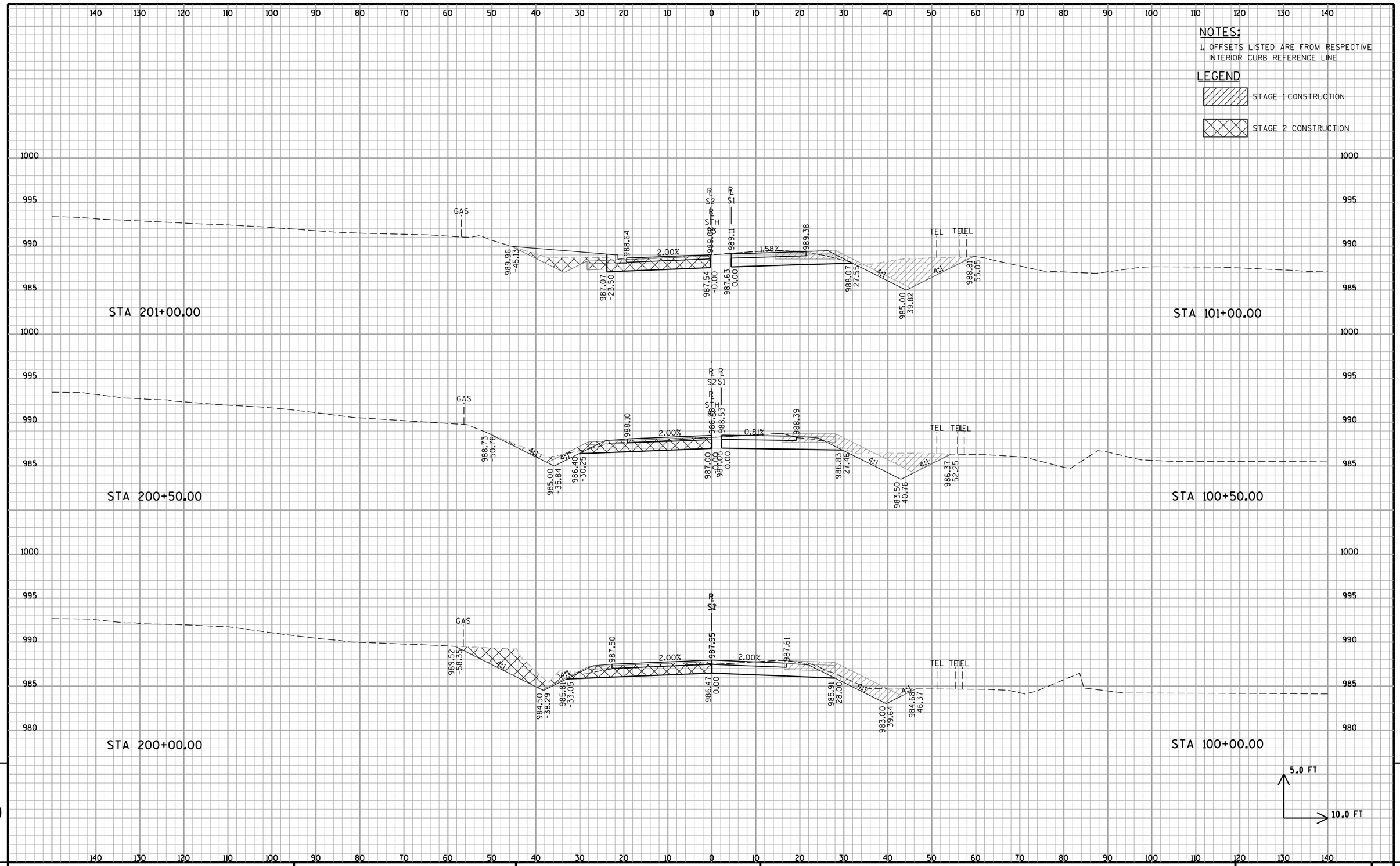
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 852	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090201_xs.dgn PLOT DATE : 5/9/2013 10:25:48 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ft / IN.
Pdf_bw_HS.plt
PEI_TextSub.tbl

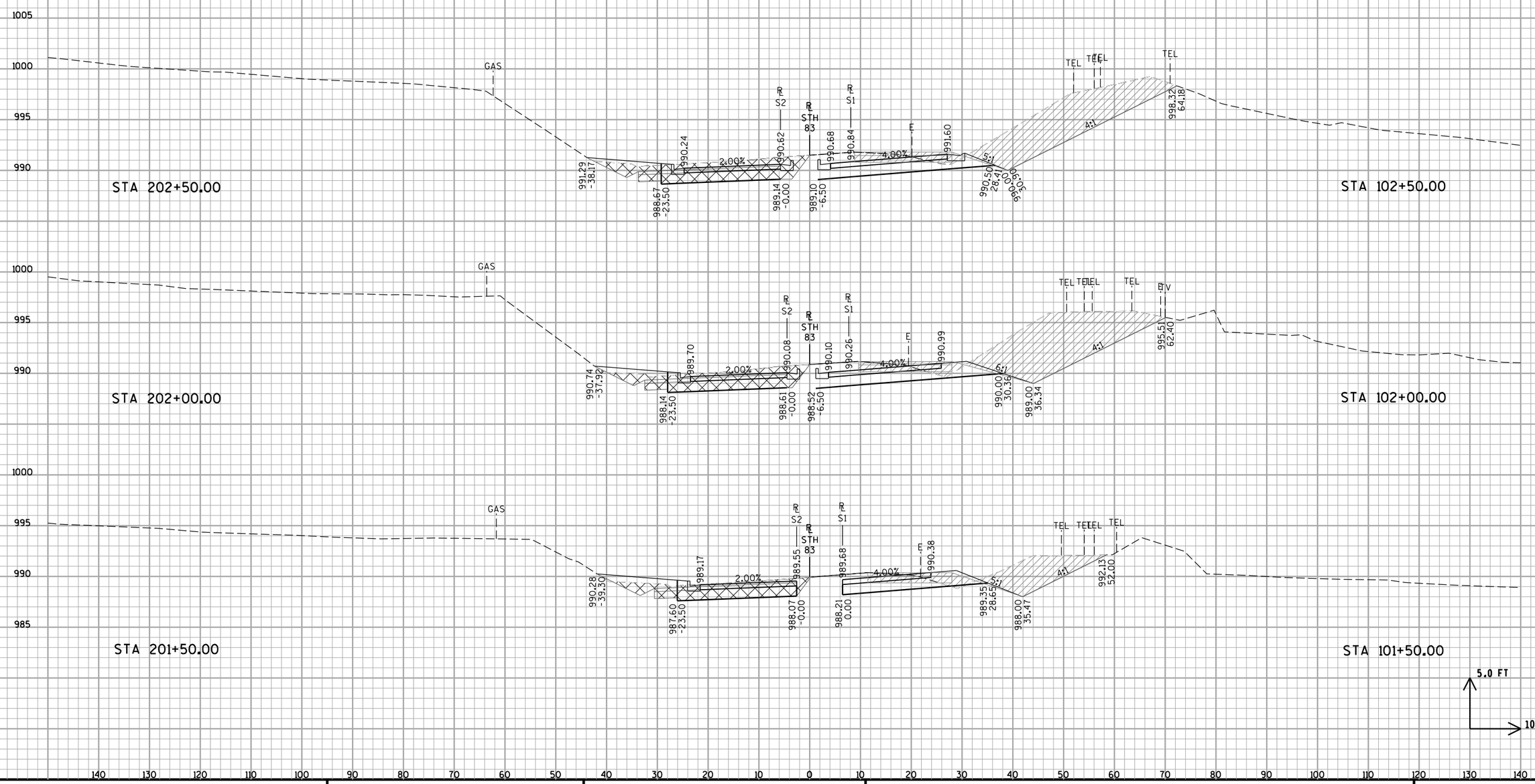
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 853	E

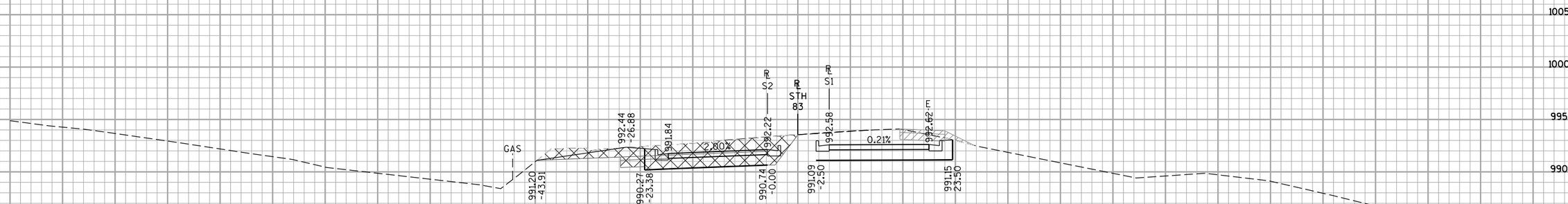
NOTES:

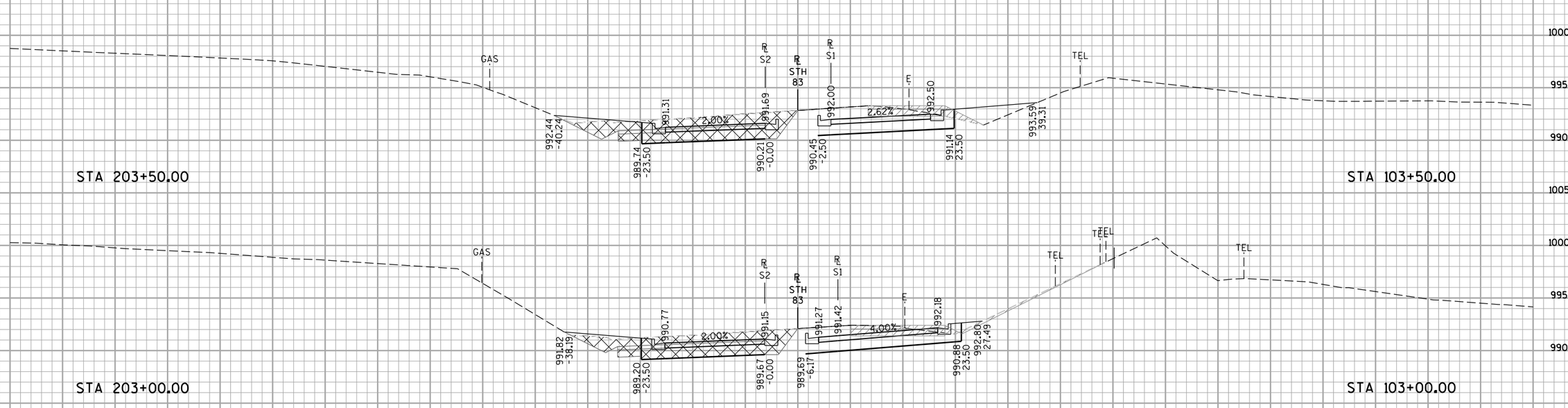
1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION





PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 854	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090201_xs.dgn PLOT DATE : 5/9/2013 10:25:49 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ft / IN.
Pdf_bw_HS.plt
PEI_TextSub.tbl
WISDOT/CADDS SHEET 21

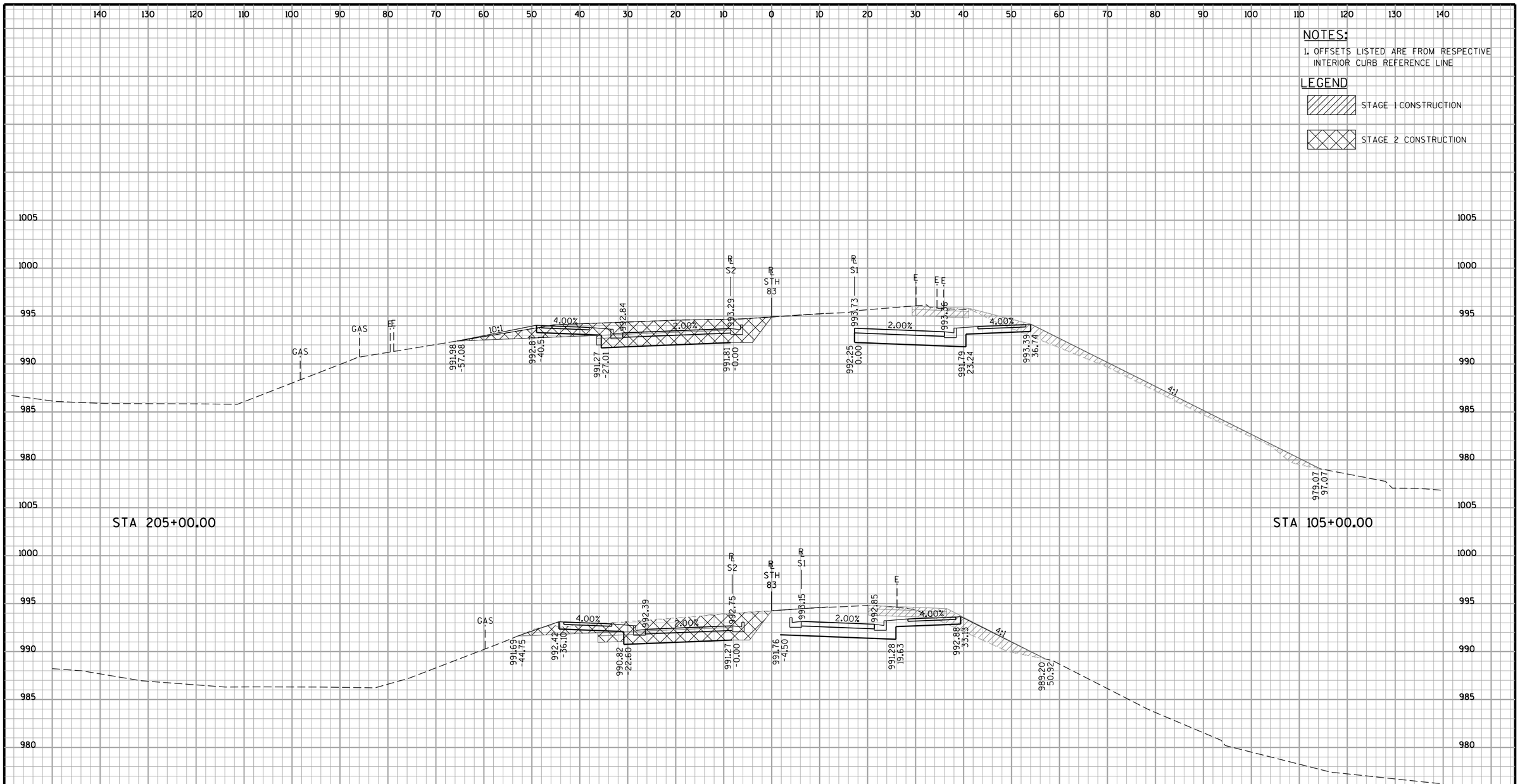
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 855	E

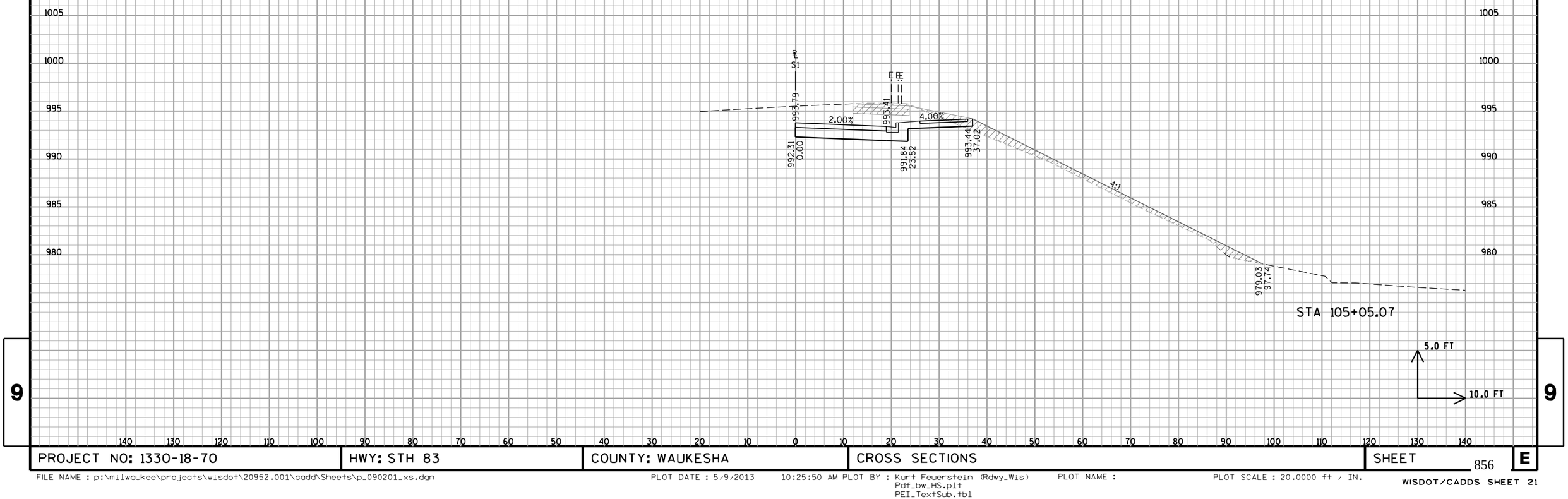
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

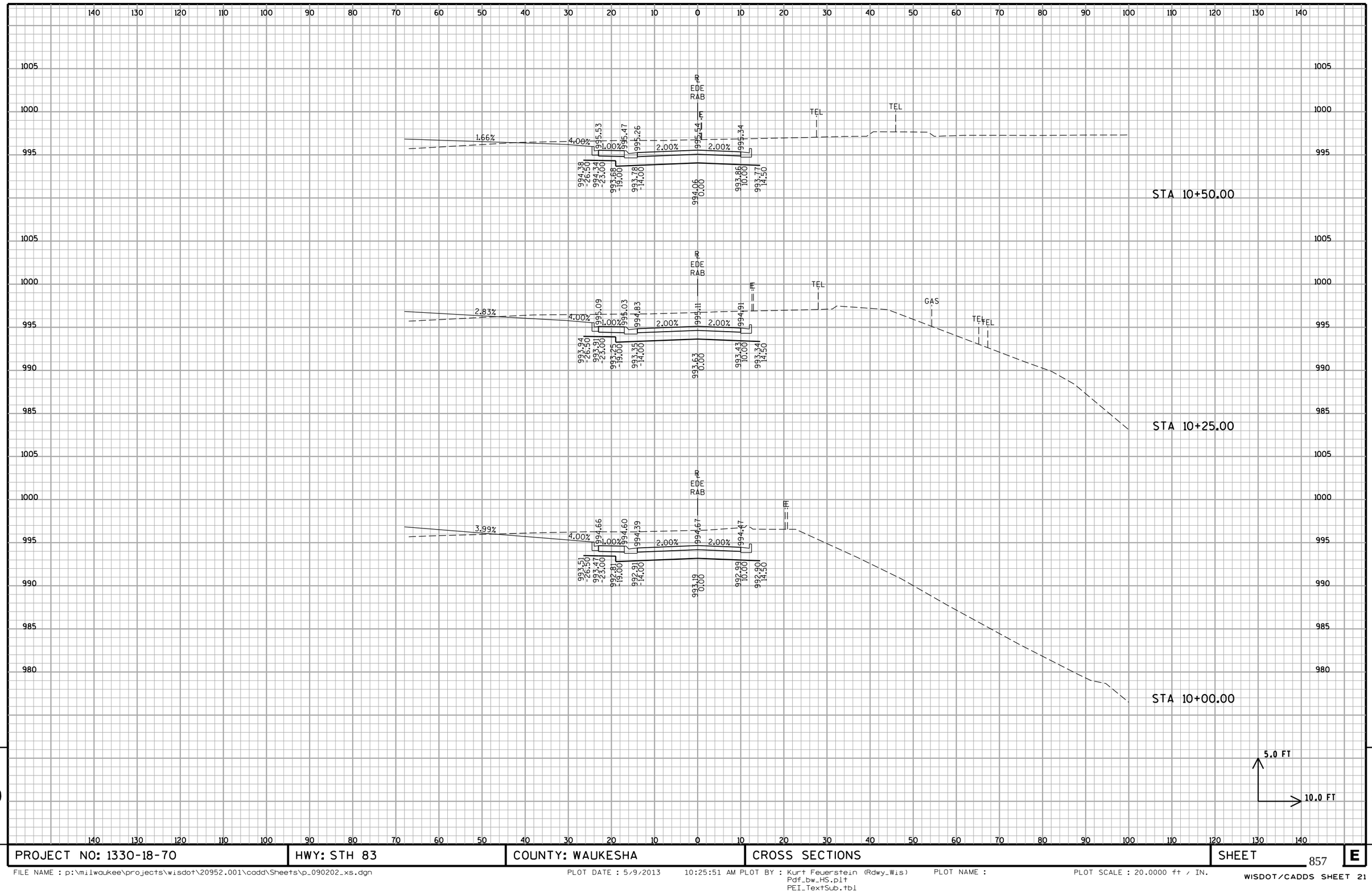
STAGE 2 CONSTRUCTION



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 856	E

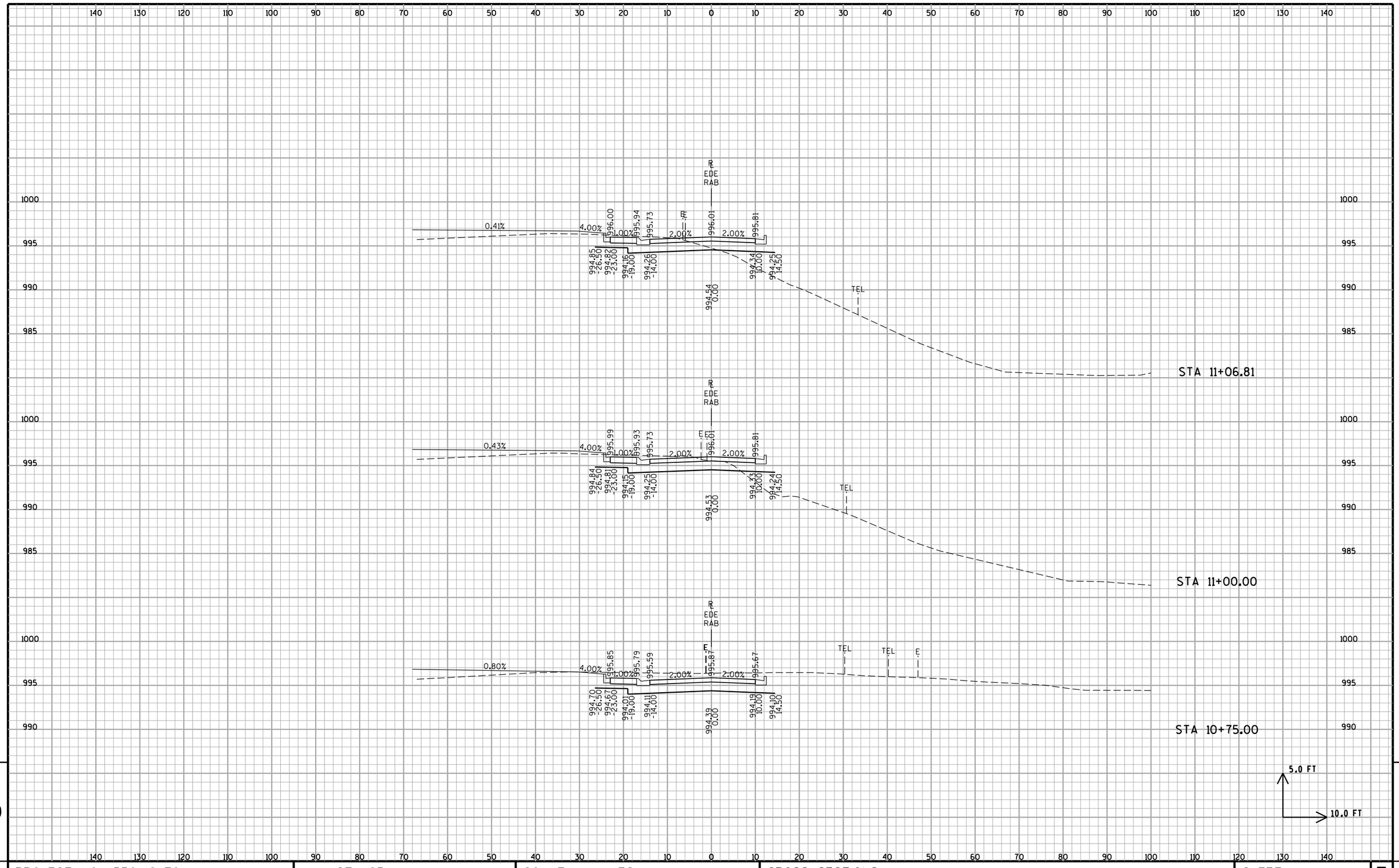
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090201_xs.dgn PLOT DATE : 5/9/2013 10:25:50 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21



9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 857	E

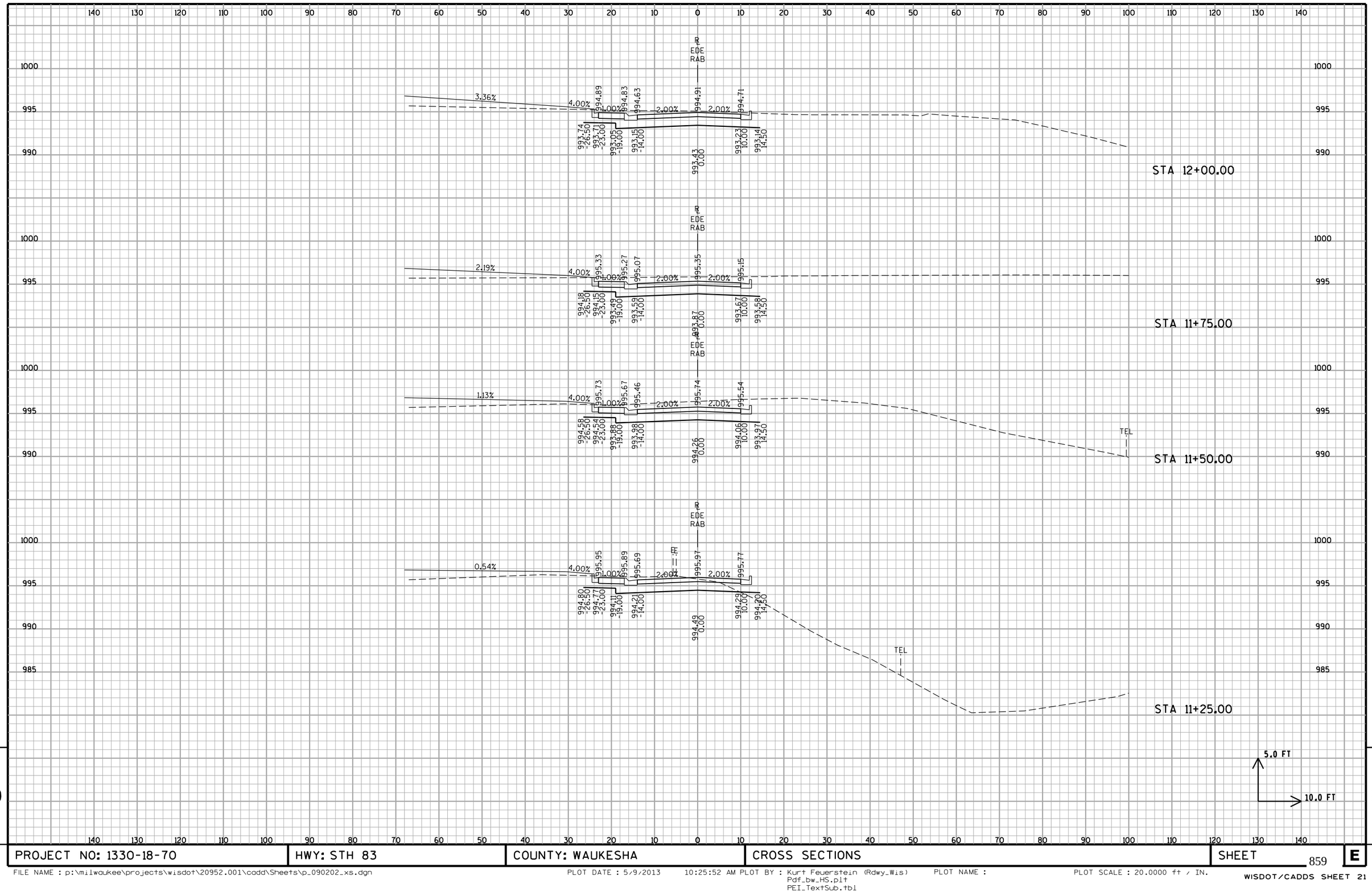


9

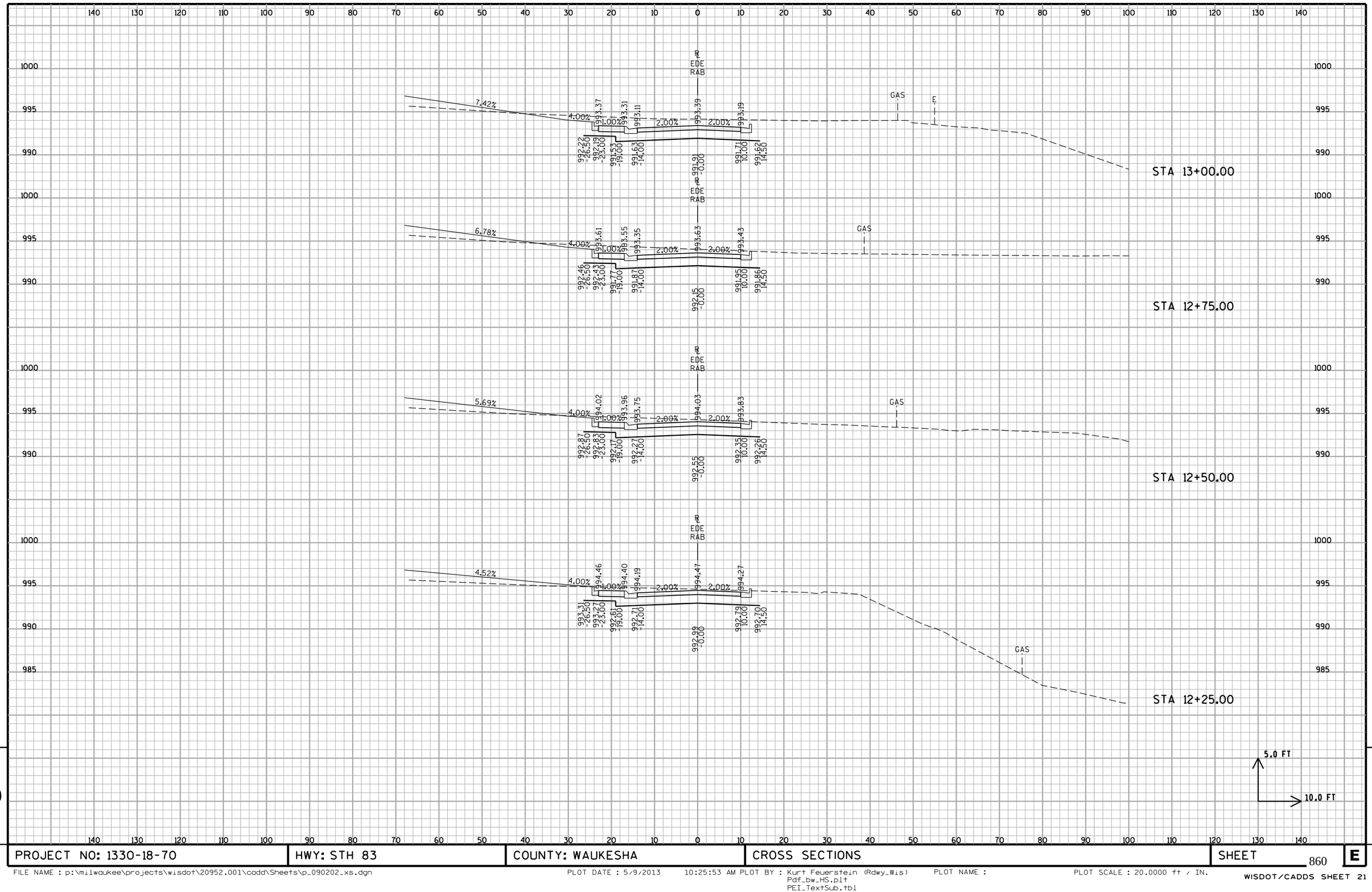
9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 858	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090202_xs.dgn PLOT DATE : 5/9/2013 10:25:52 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



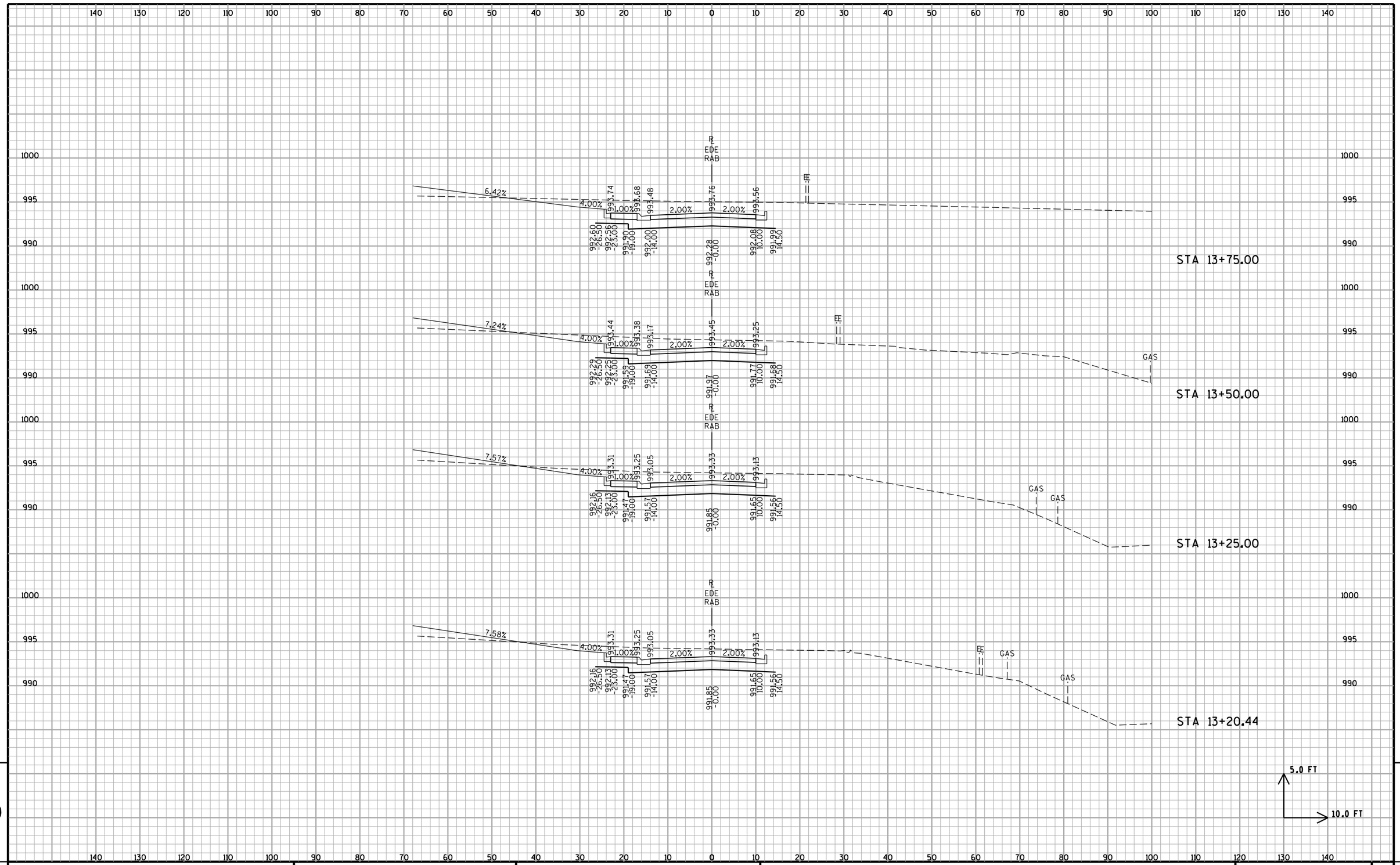
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 859	E



9

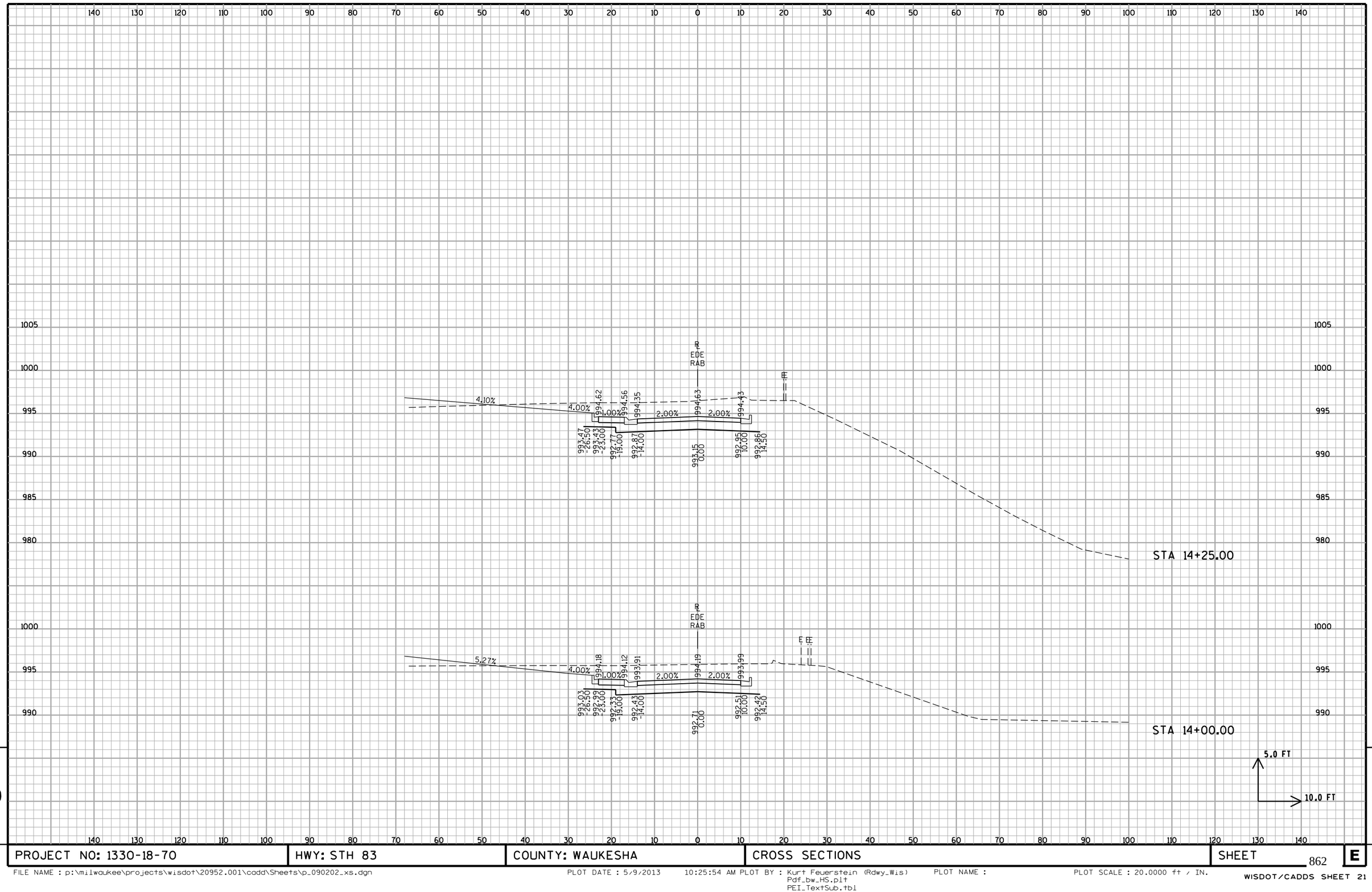
9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 860	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 861	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090202_xs.dgn
PLOT DATE : 5/9/2013 10:25:53 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 862	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090202_xs.dgn PLOT DATE : 5/9/2013 10:25:54 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ft / IN.

Pdf_bw_HS.plt
PEI_TextSub.tbl

WISDOT/CADDS SHEET 21

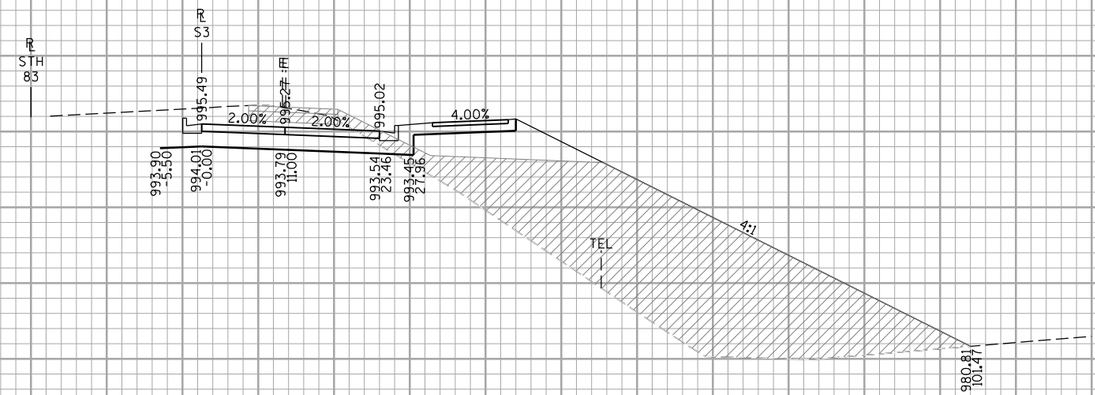
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

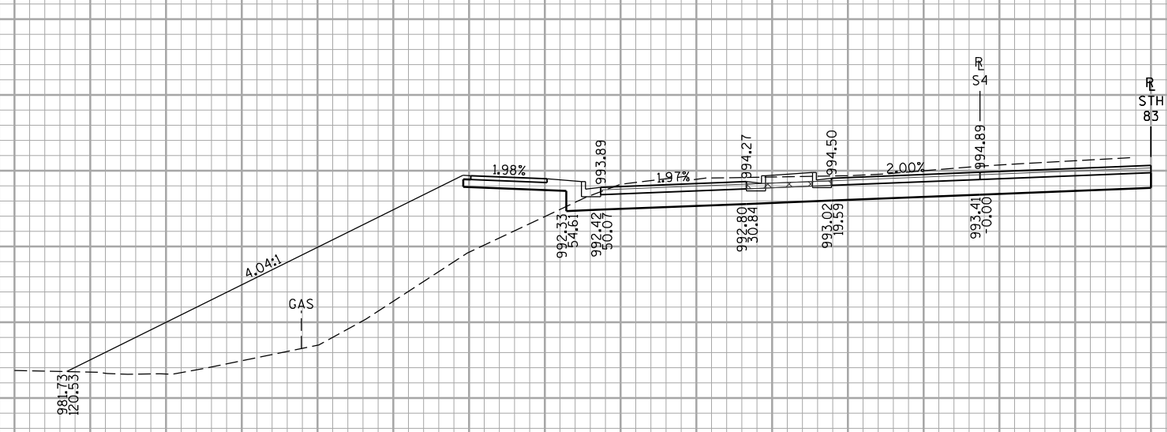
LEGEND

STAGE 1 CONSTRUCTION

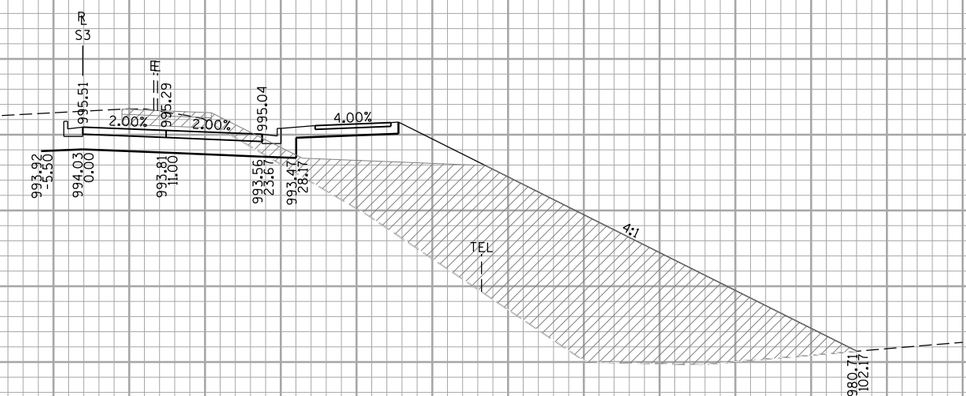
STAGE 2 CONSTRUCTION



STA 352+50.00



STA 452+52.04



STA 352+46.61

5.0 FT

10.0 FT

9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 863	E

NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 454+00.00

STA 354+00.00

STA 453+50.00

STA 353+50.00

STA 453+00.00

STA 353+00.00

5.0 FT

10.0 FT

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 864	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090203_xs.dgn PLOT DATE : 5/9/2013 10:25:55 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21

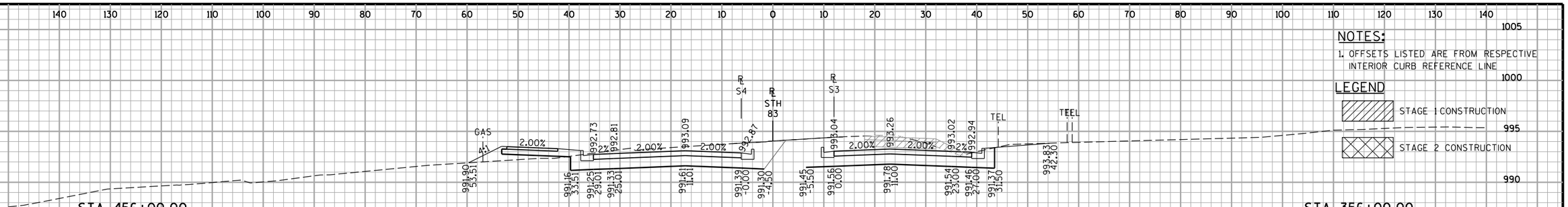
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 865	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090203_xs.dgn PLOT DATE : 5/9/2013 10:25:56 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21

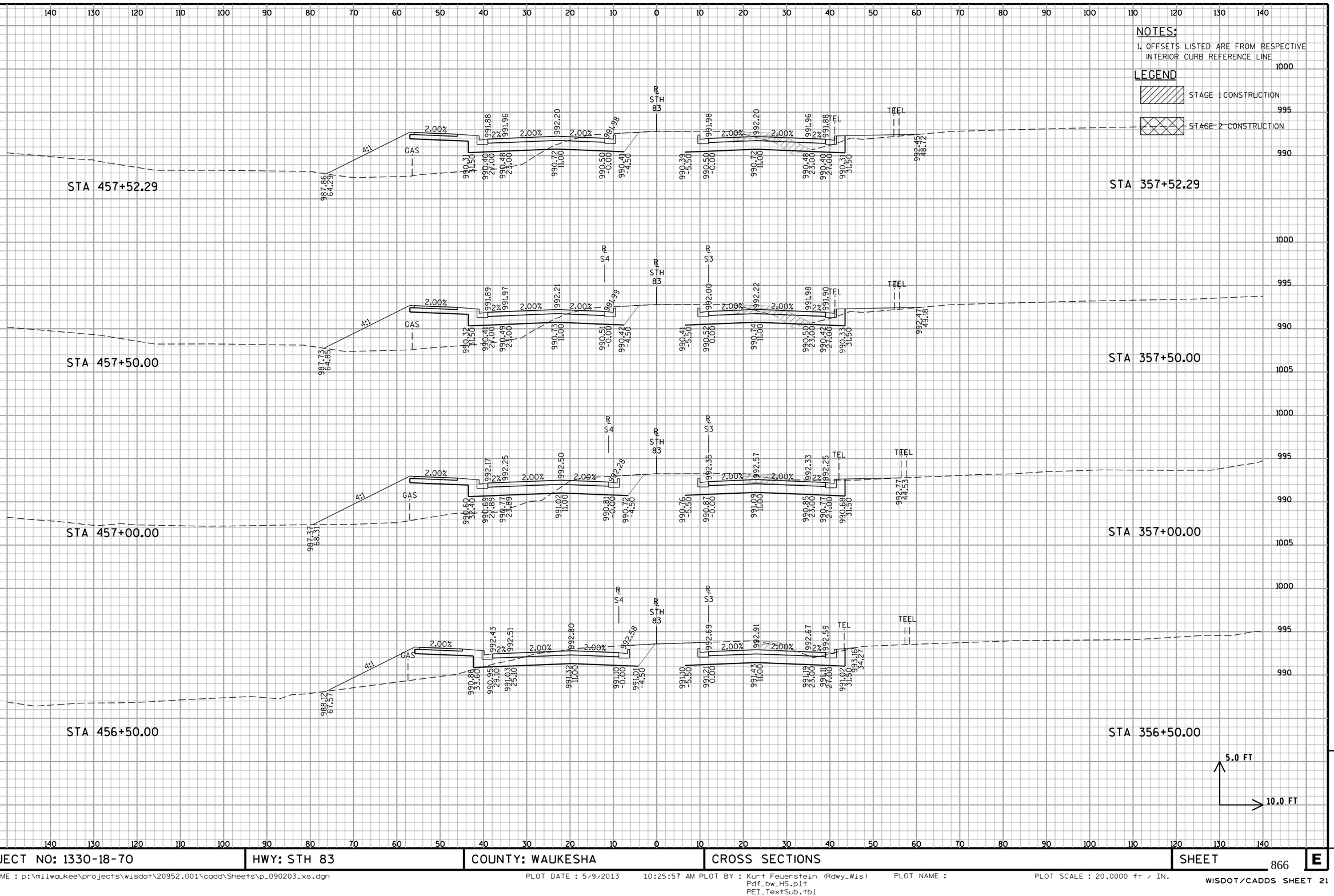
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

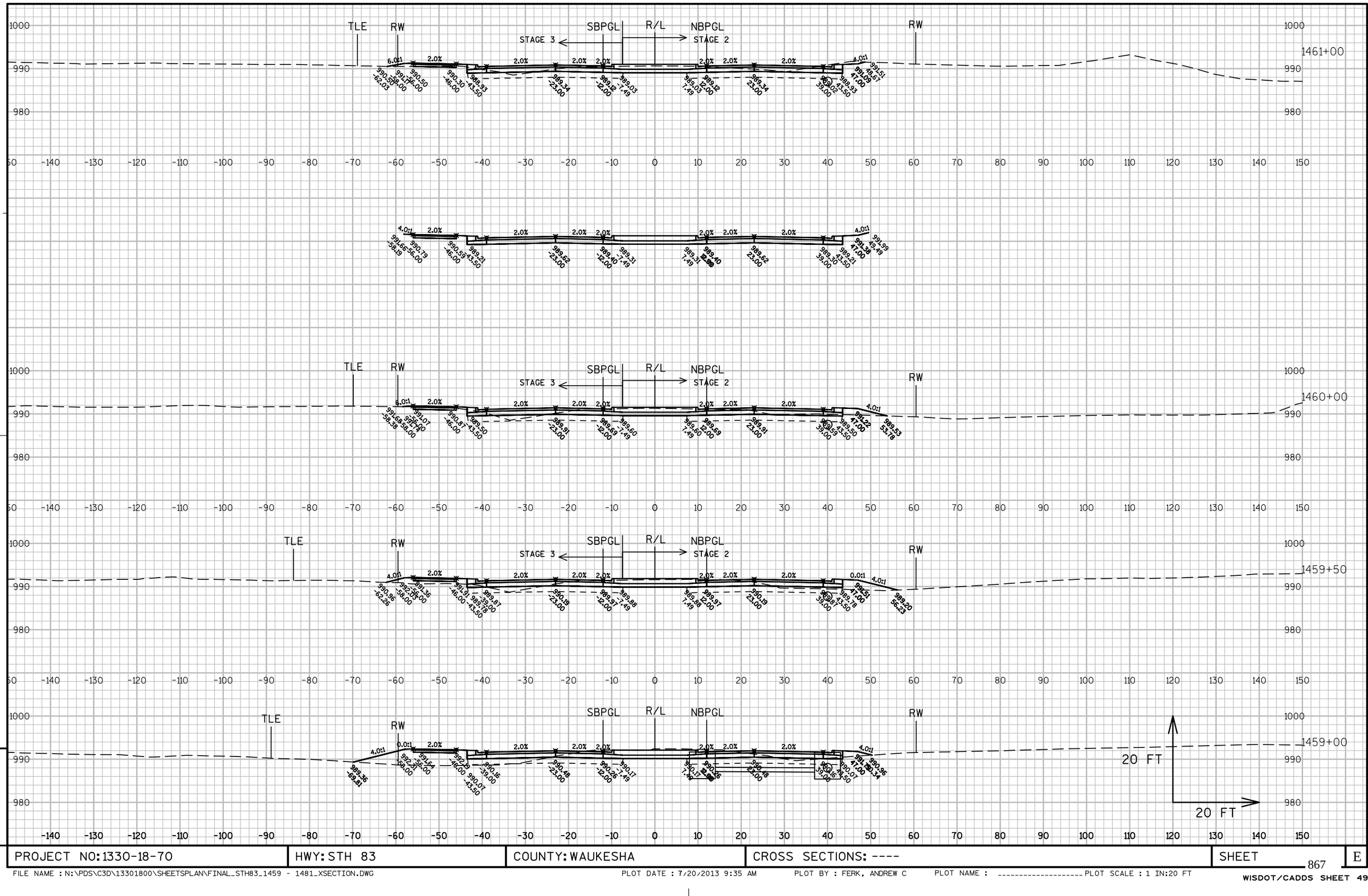
STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 866	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090203_xs.dgn PLOT DATE : 5/9/2013 10:25:57 AM PLOT BY : Kurt Feuerstein (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ft / IN.
Pdf_bw_HS.plt
PEI_TextSub.tbl
WISDOT/CADDS SHEET 21



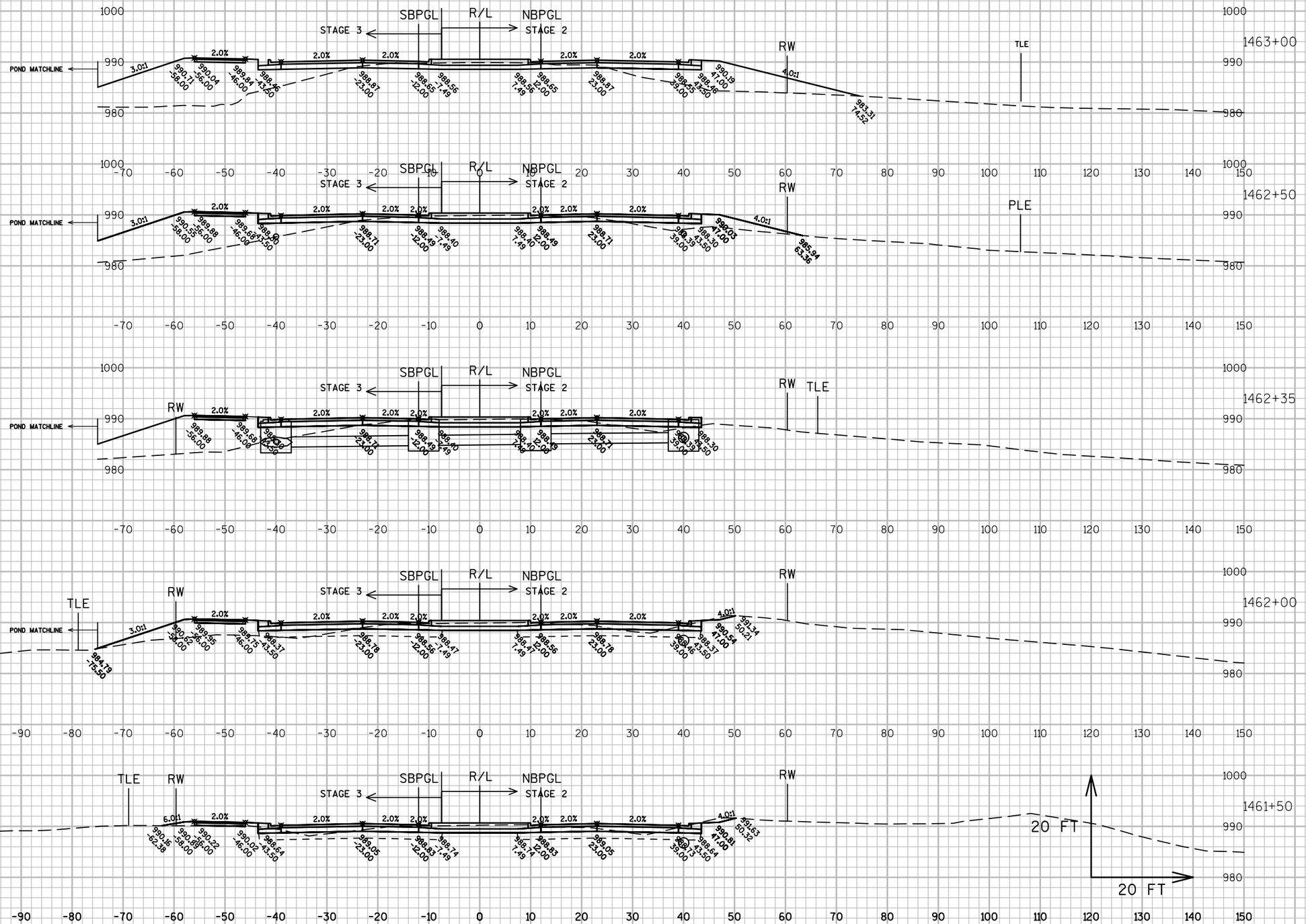
9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:35 AM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

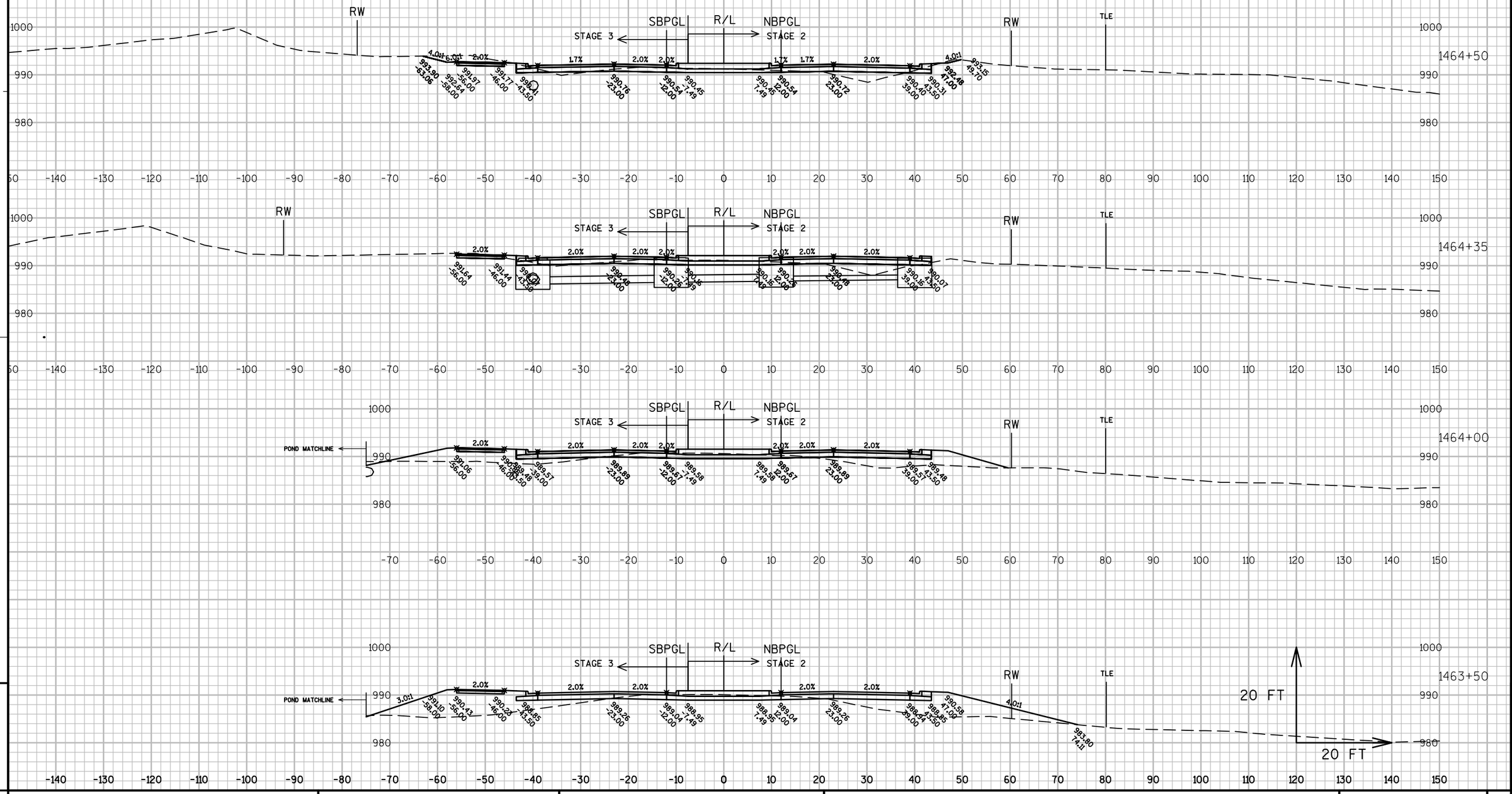
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 868 E

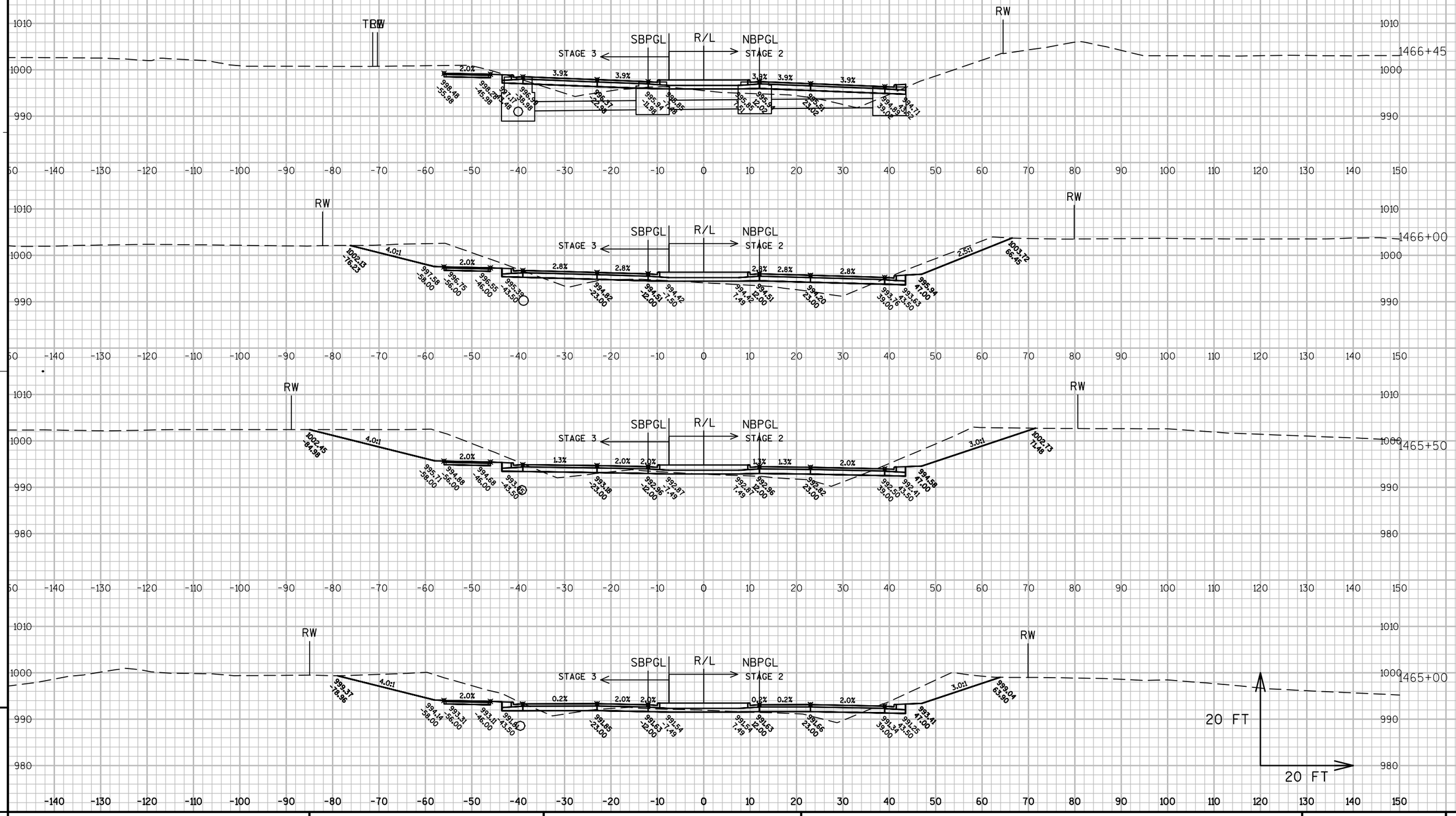
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:36 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO:1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 869	E

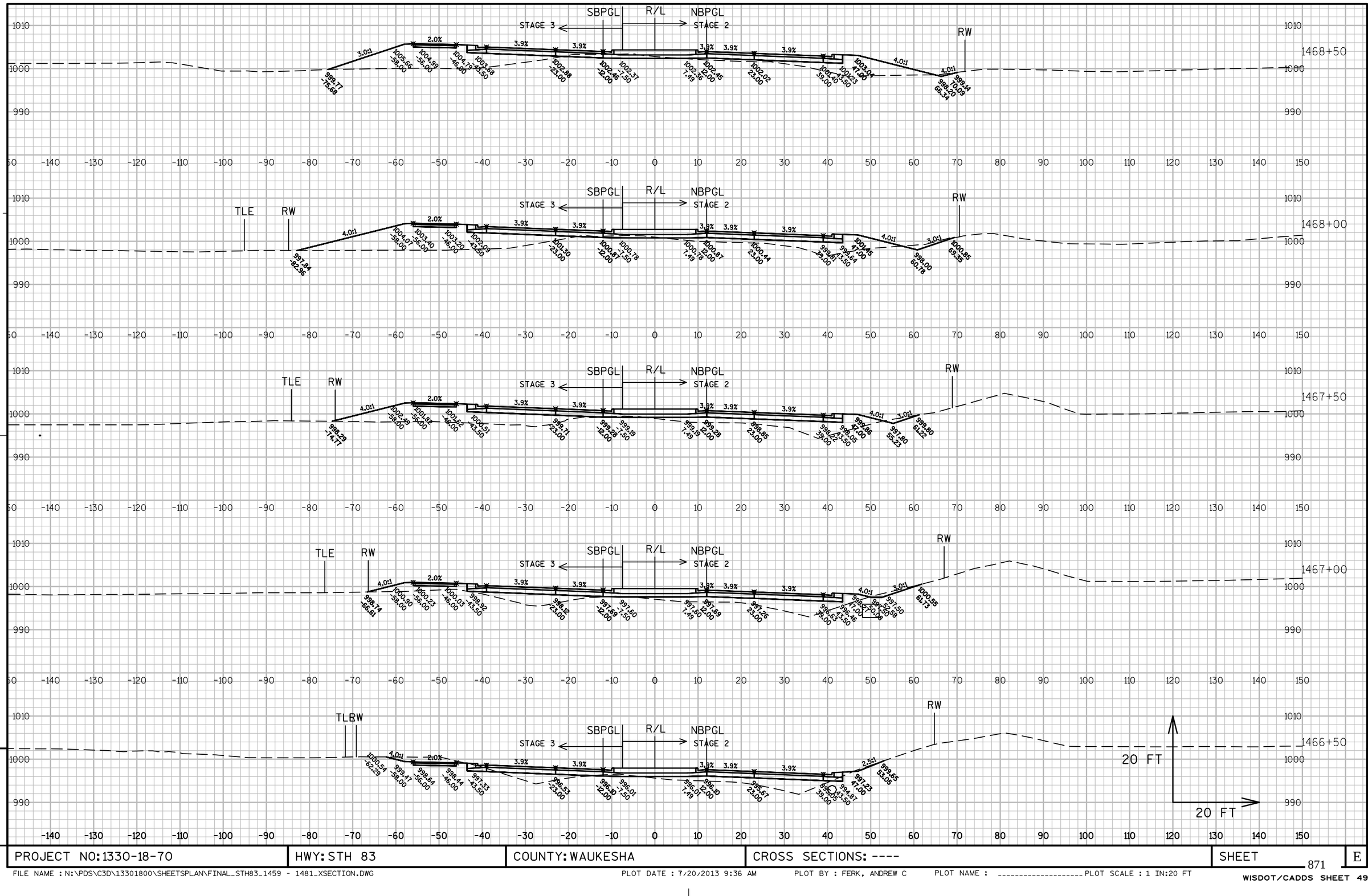
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:36 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 870	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:36 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

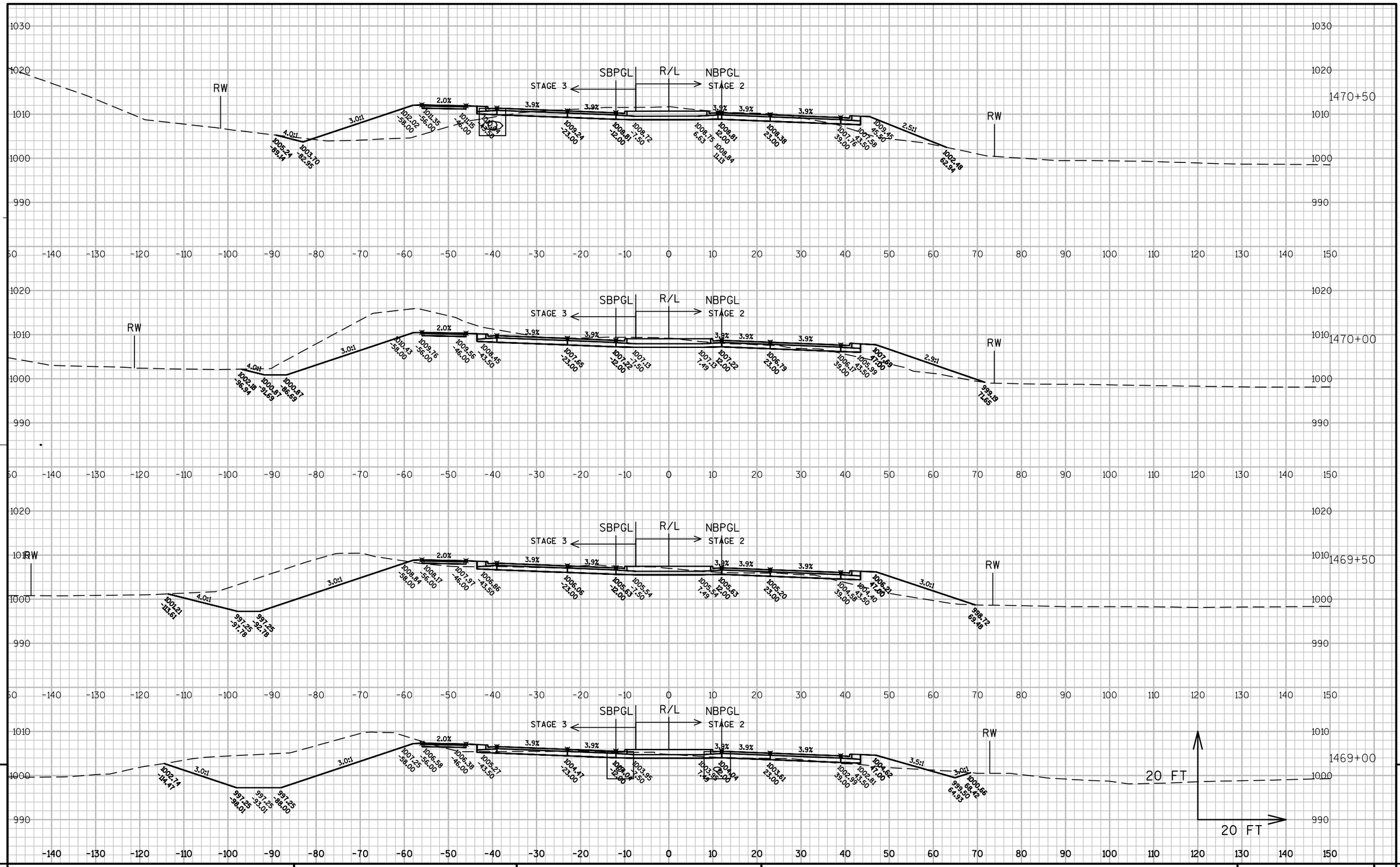
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:36 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

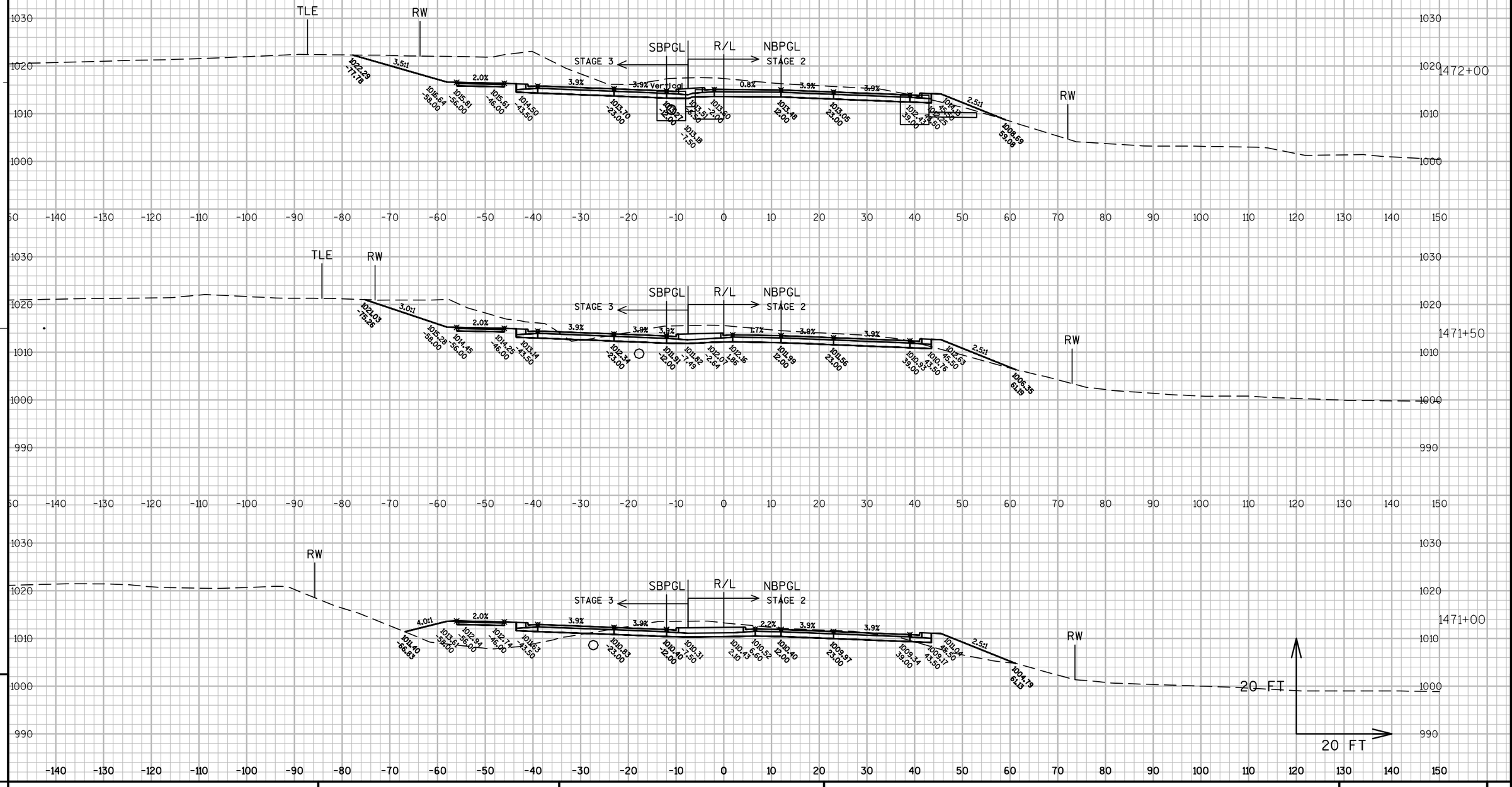
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 872	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:36 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



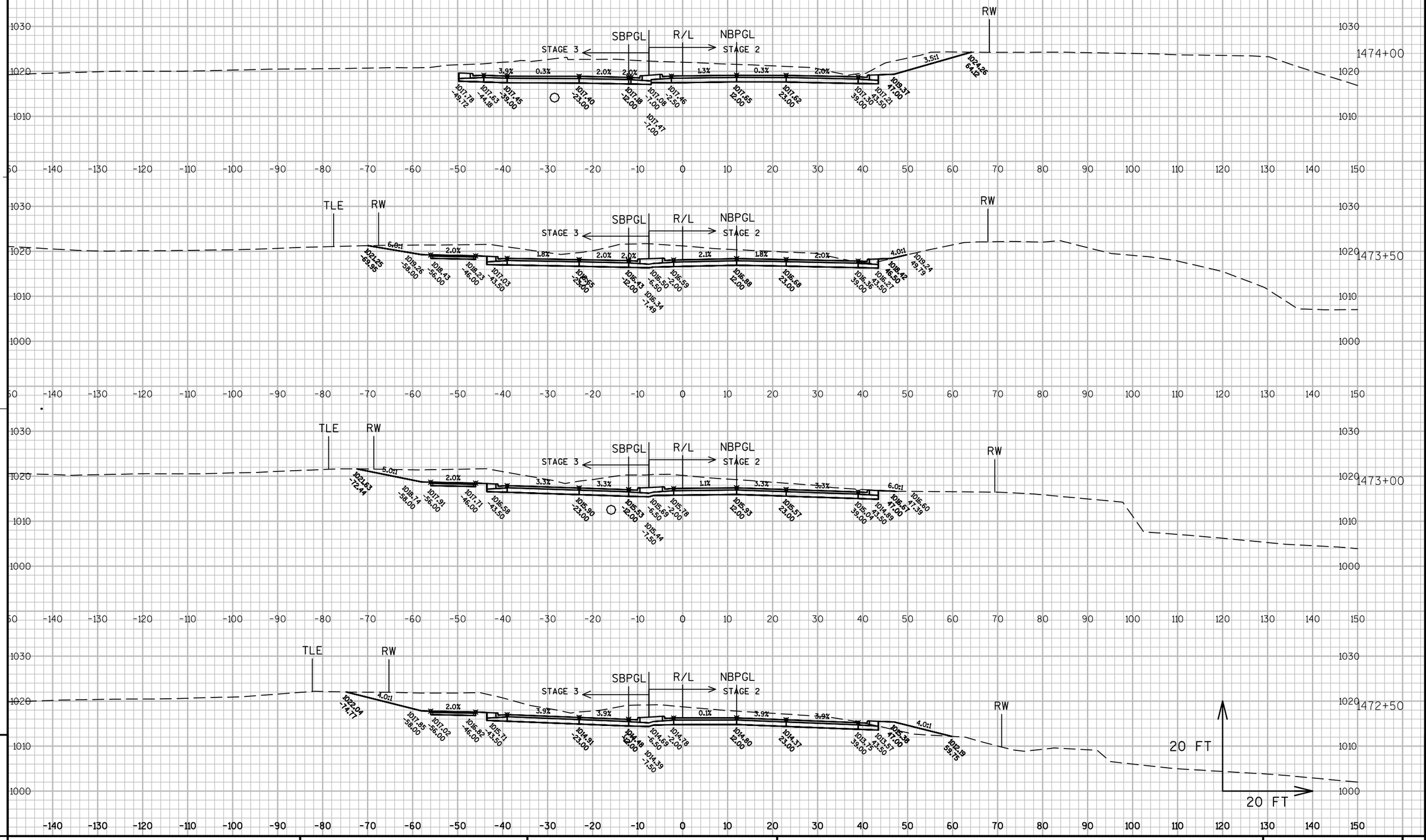
9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 873	E

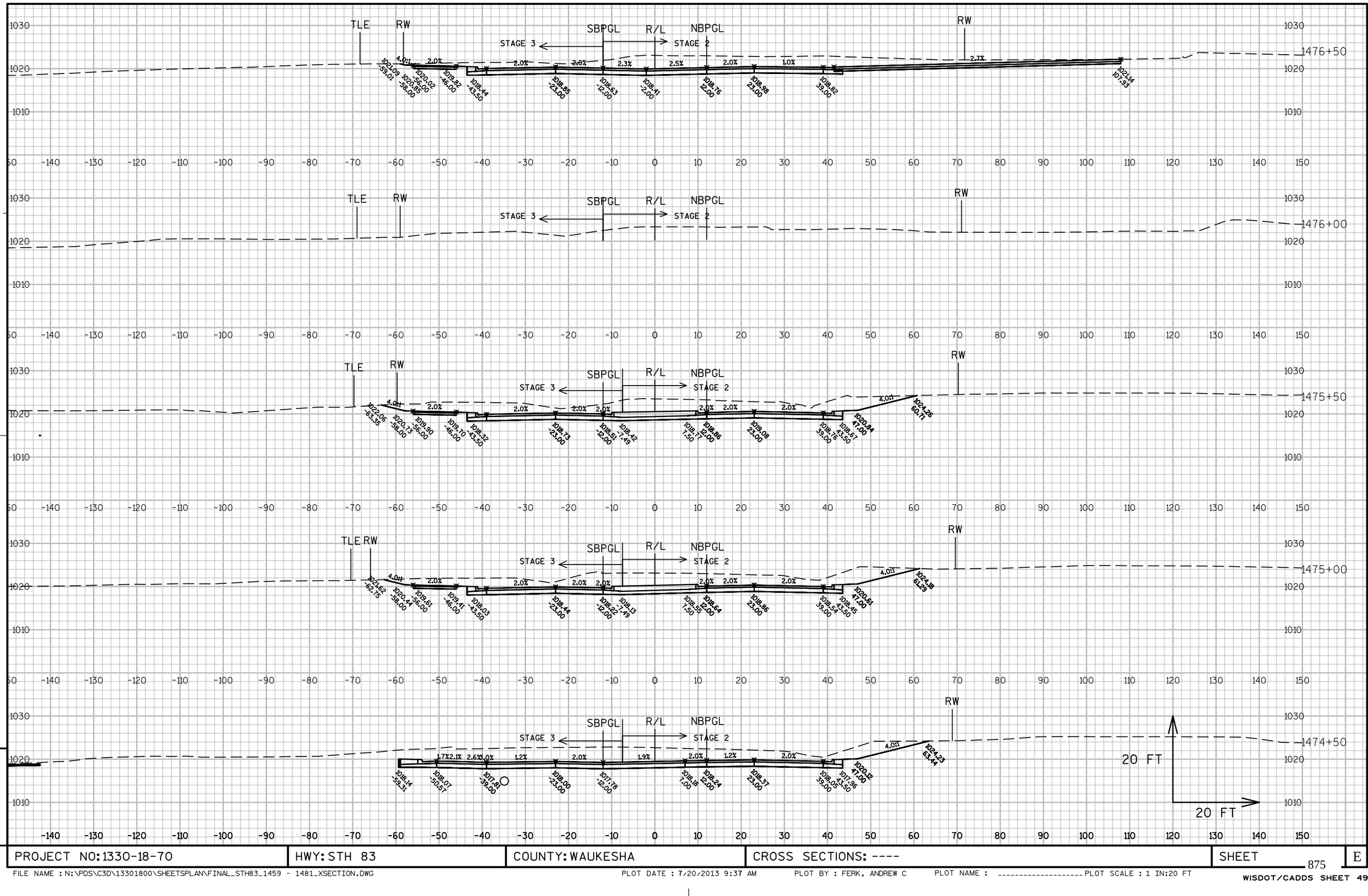
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:37 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:37 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

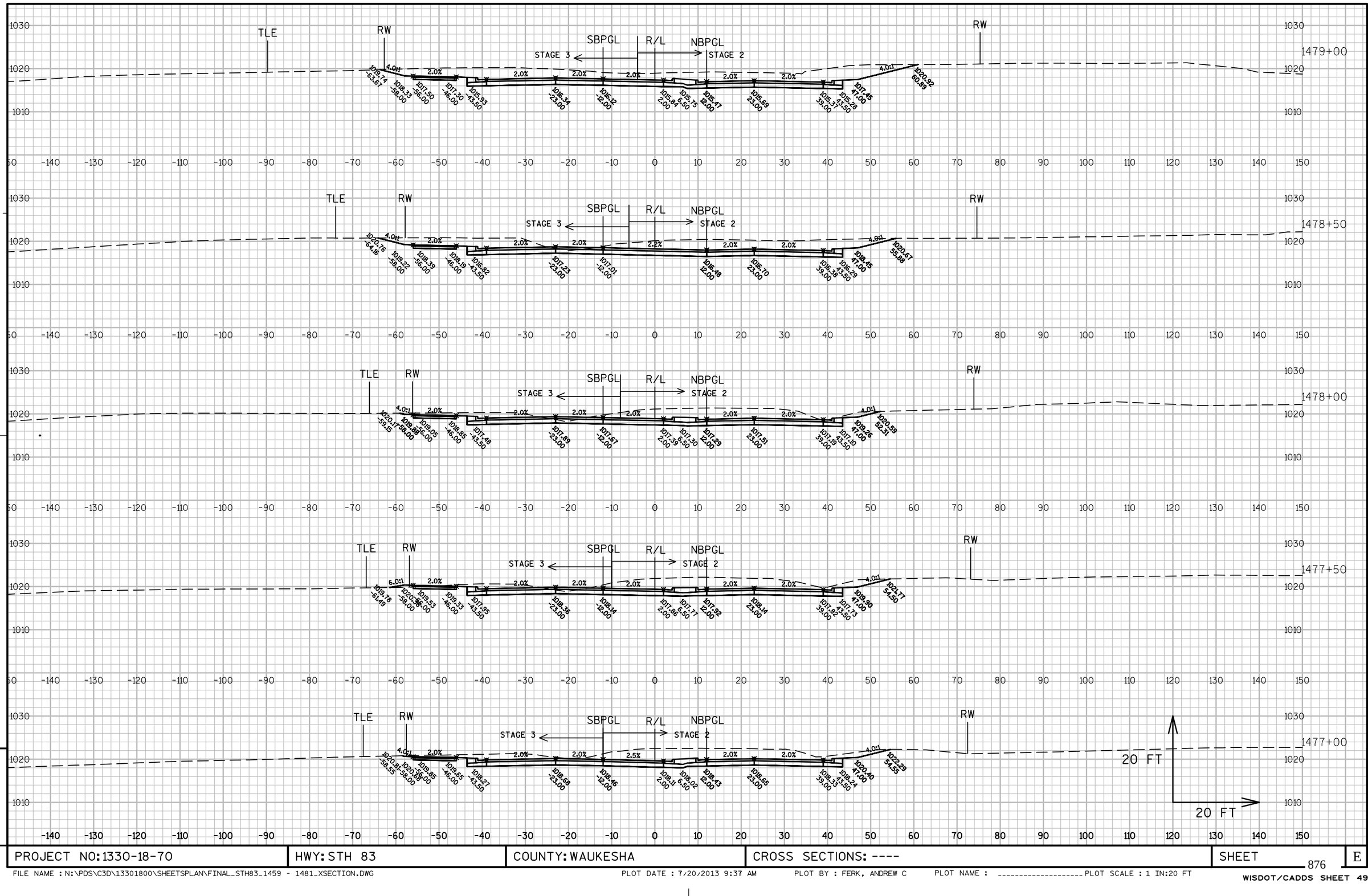


9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:37 AM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

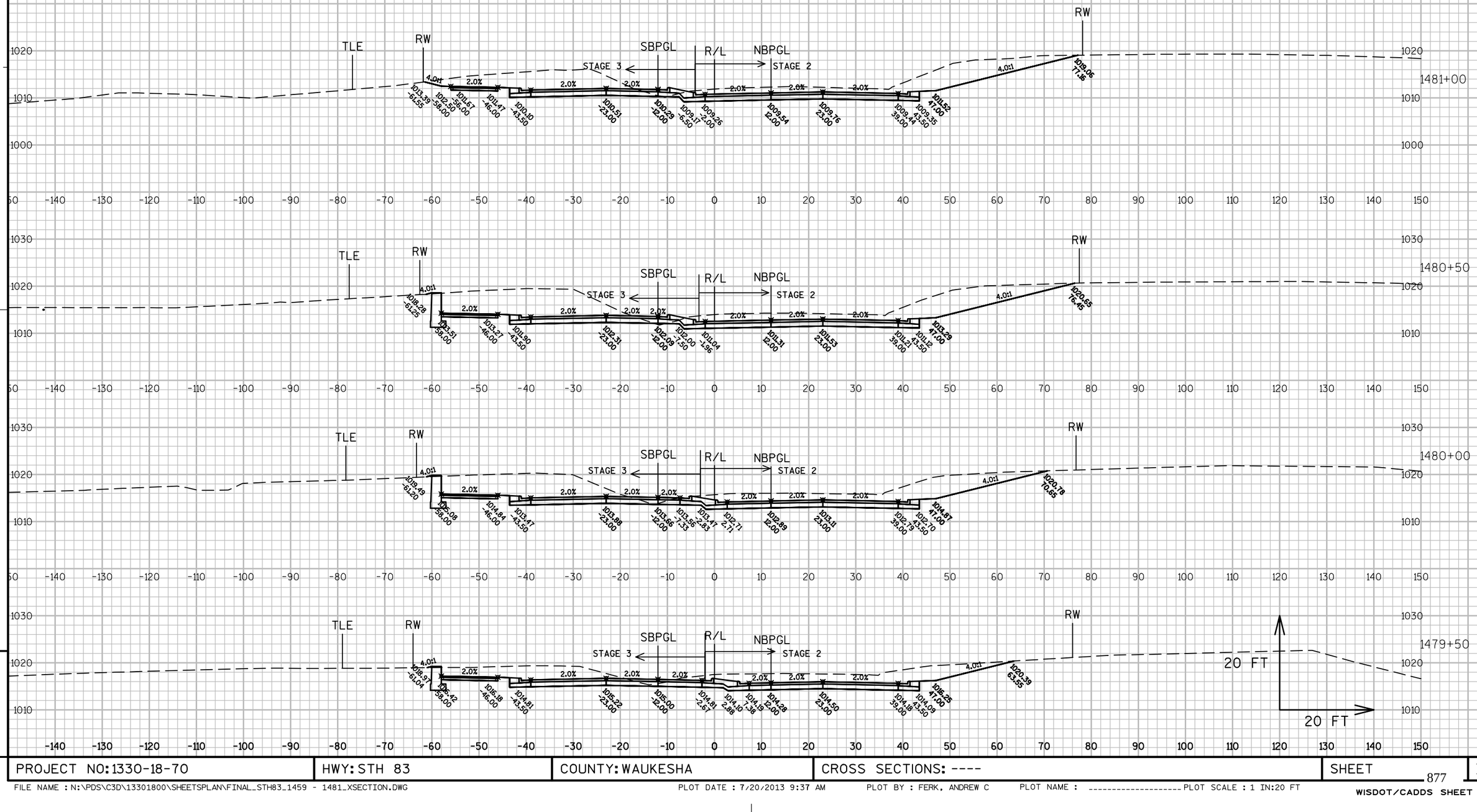


9

9

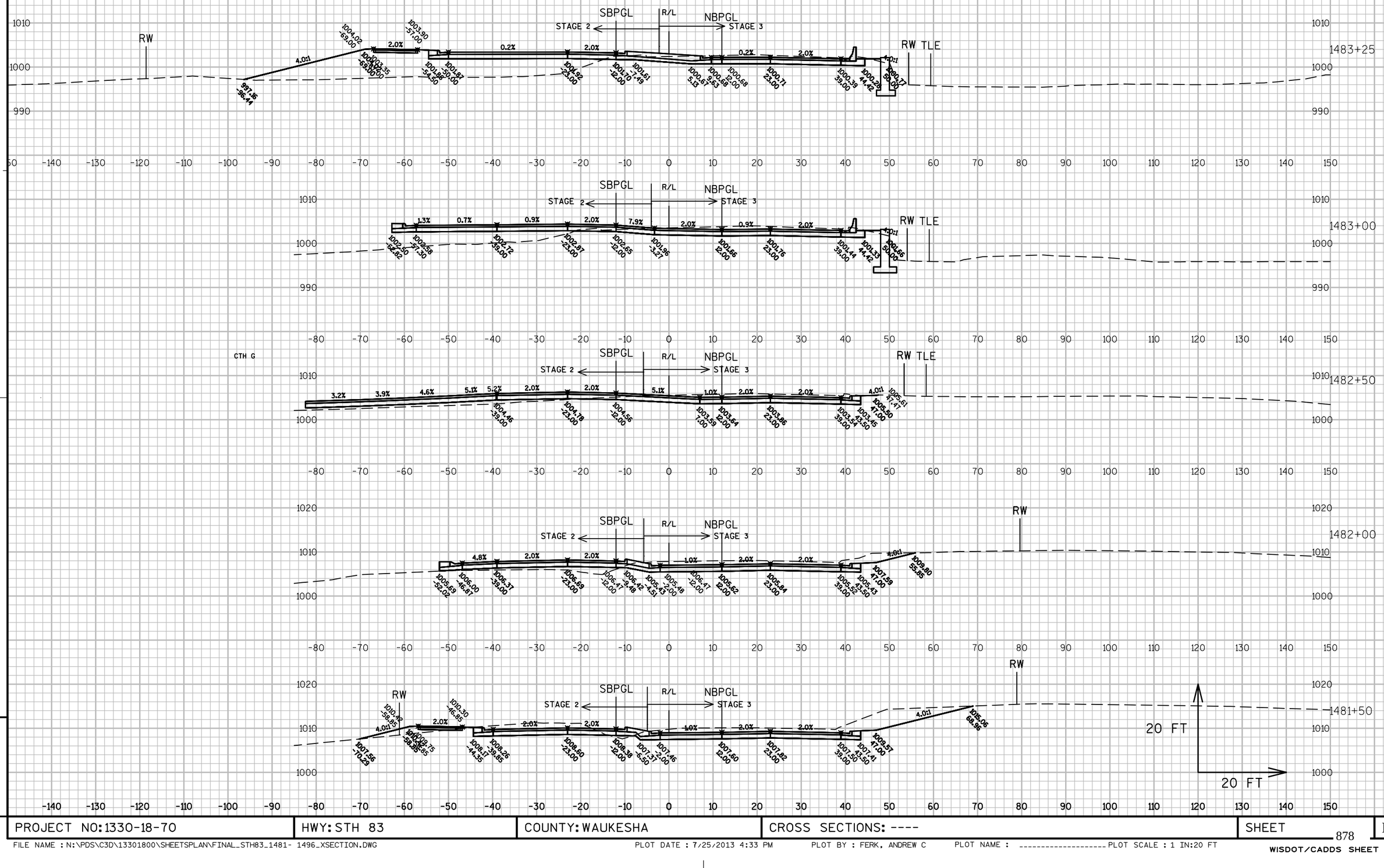
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:37 AM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT



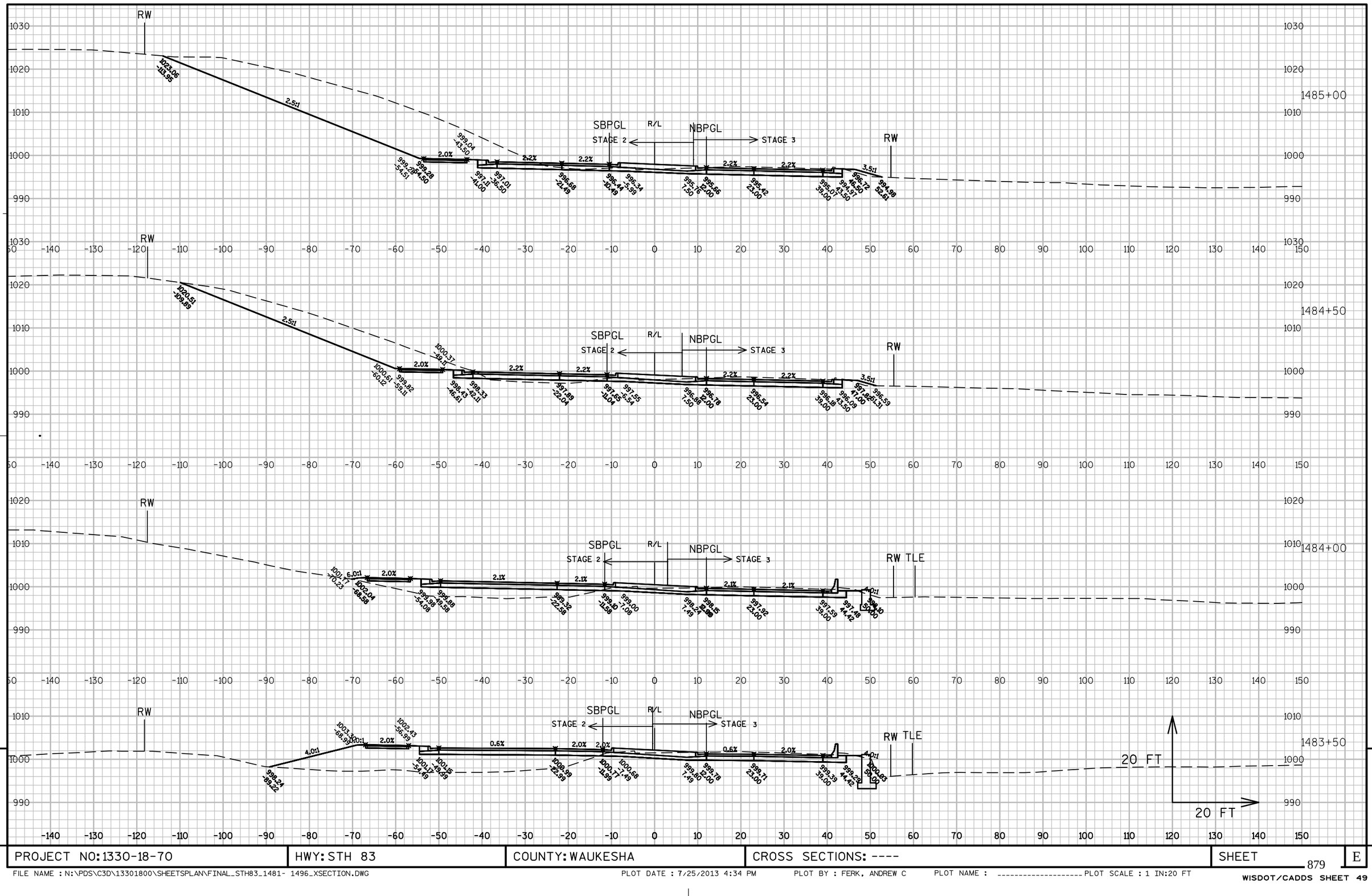
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 877	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1459 - 1481_XSECTION.DWG PLOT DATE : 7/20/2013 9:37 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



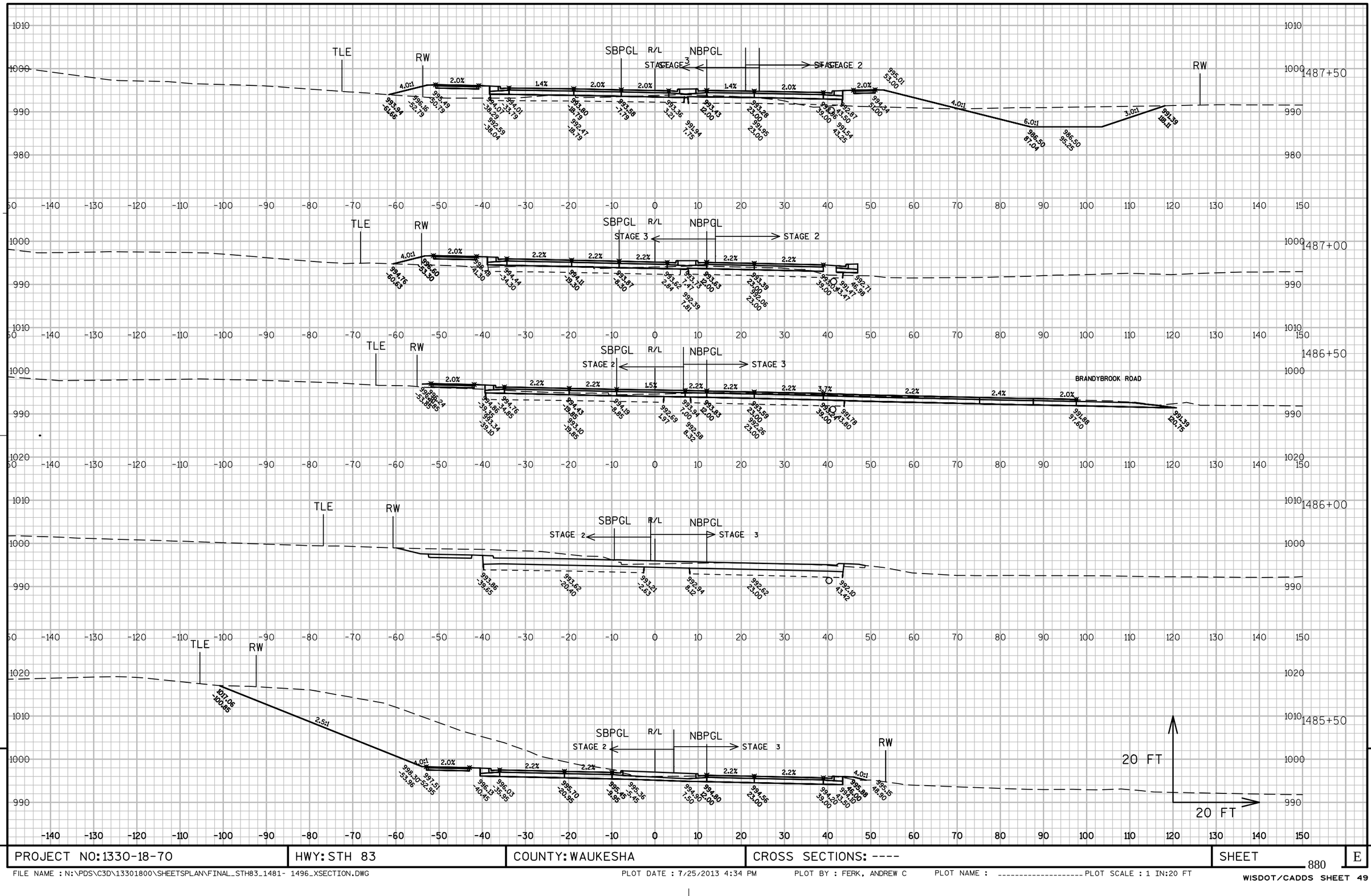
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 878	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1481- 1496_XSECTION.DWG
PLOT DATE : 7/25/2013 4:33 PM
PLOT BY : FERK, ANDREW C
PLOT NAME : ----------
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 879	E

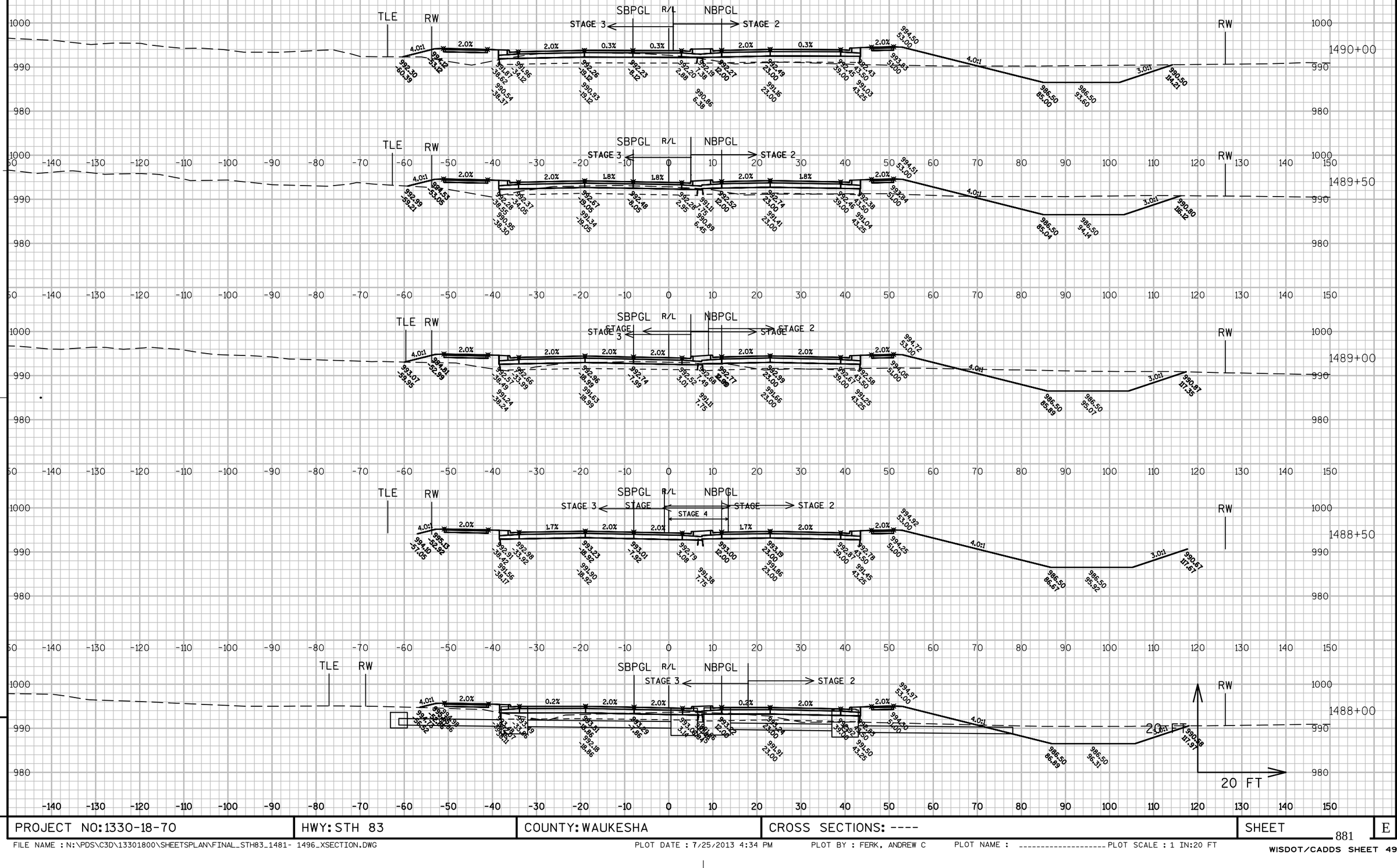
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1481- 1496_XSECTION.DWG PLOT DATE : 7/25/2013 4:34 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



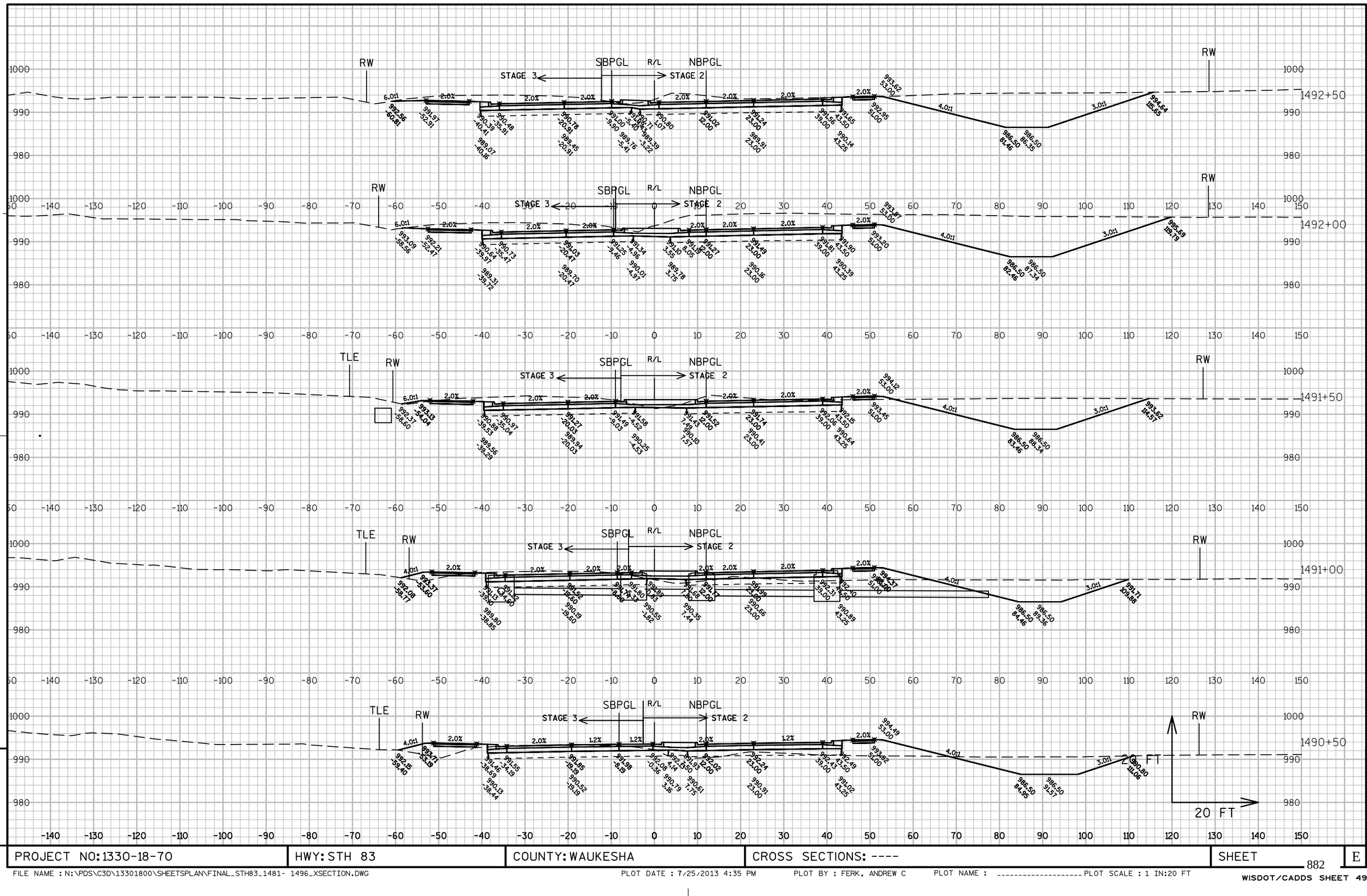
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 880	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1481- 1496_XSECTION.DWG PLOT DATE : 7/25/2013 4:34 PM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



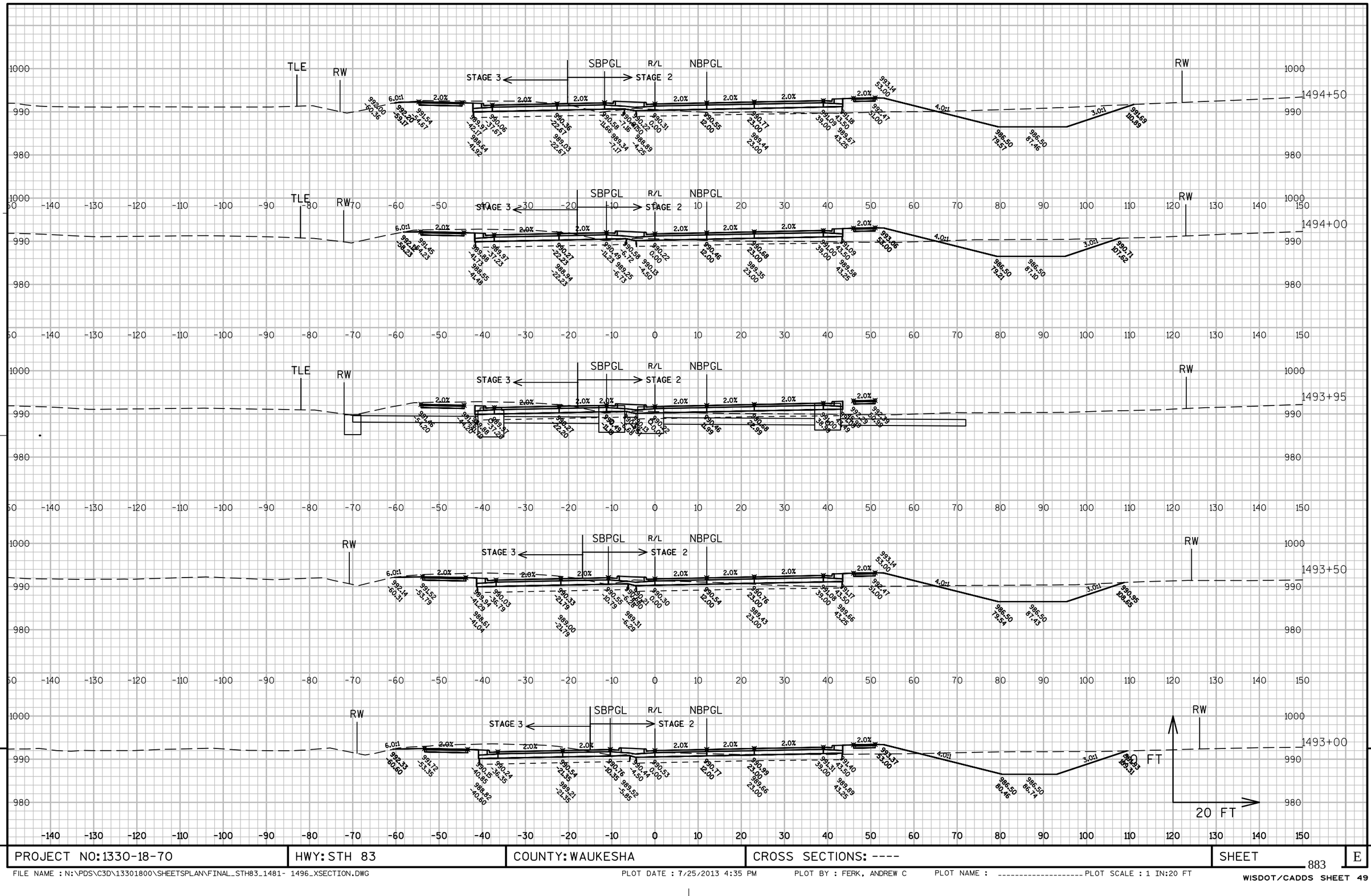
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1481- 1496_XSECTION.DWG PLOT DATE : 7/25/2013 4:35 PM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

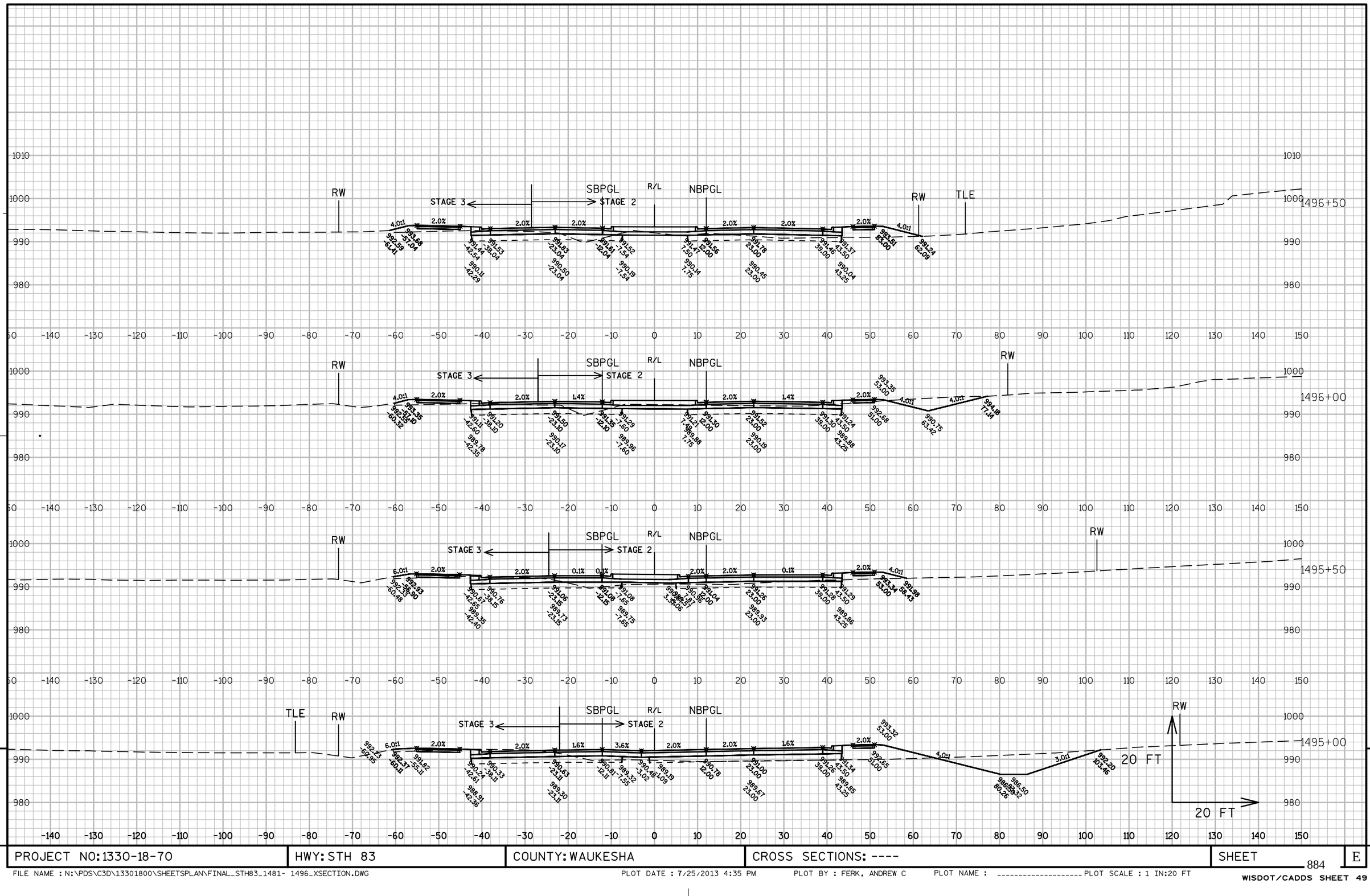
WISDOT/CADDS SHEET 49



9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 883	E



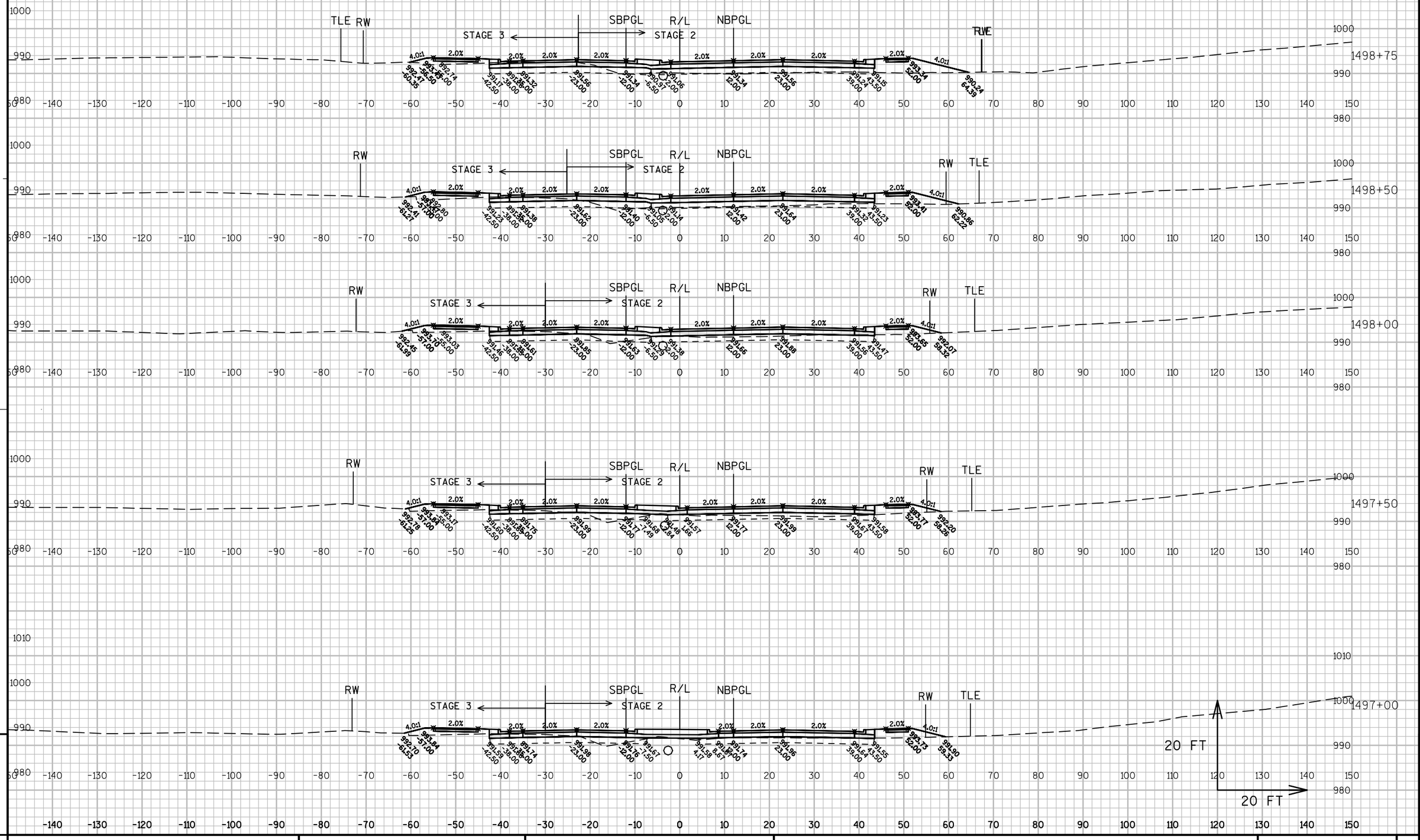
9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1481- 1496_XSECTION.DWG PLOT DATE : 7/25/2013 4:35 PM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

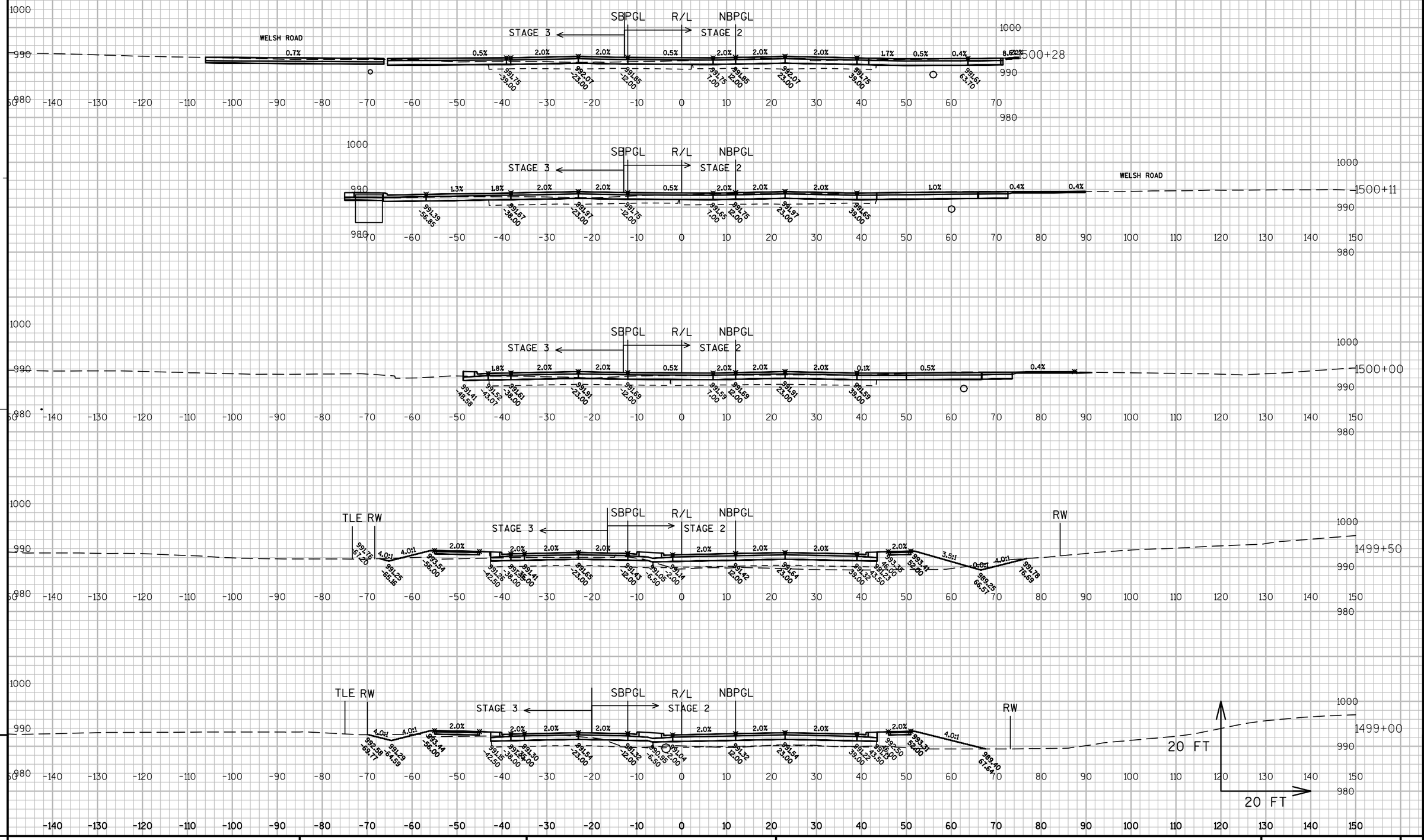
WISDOT/CADDS SHEET 49



PROJECT NO:1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 885 E

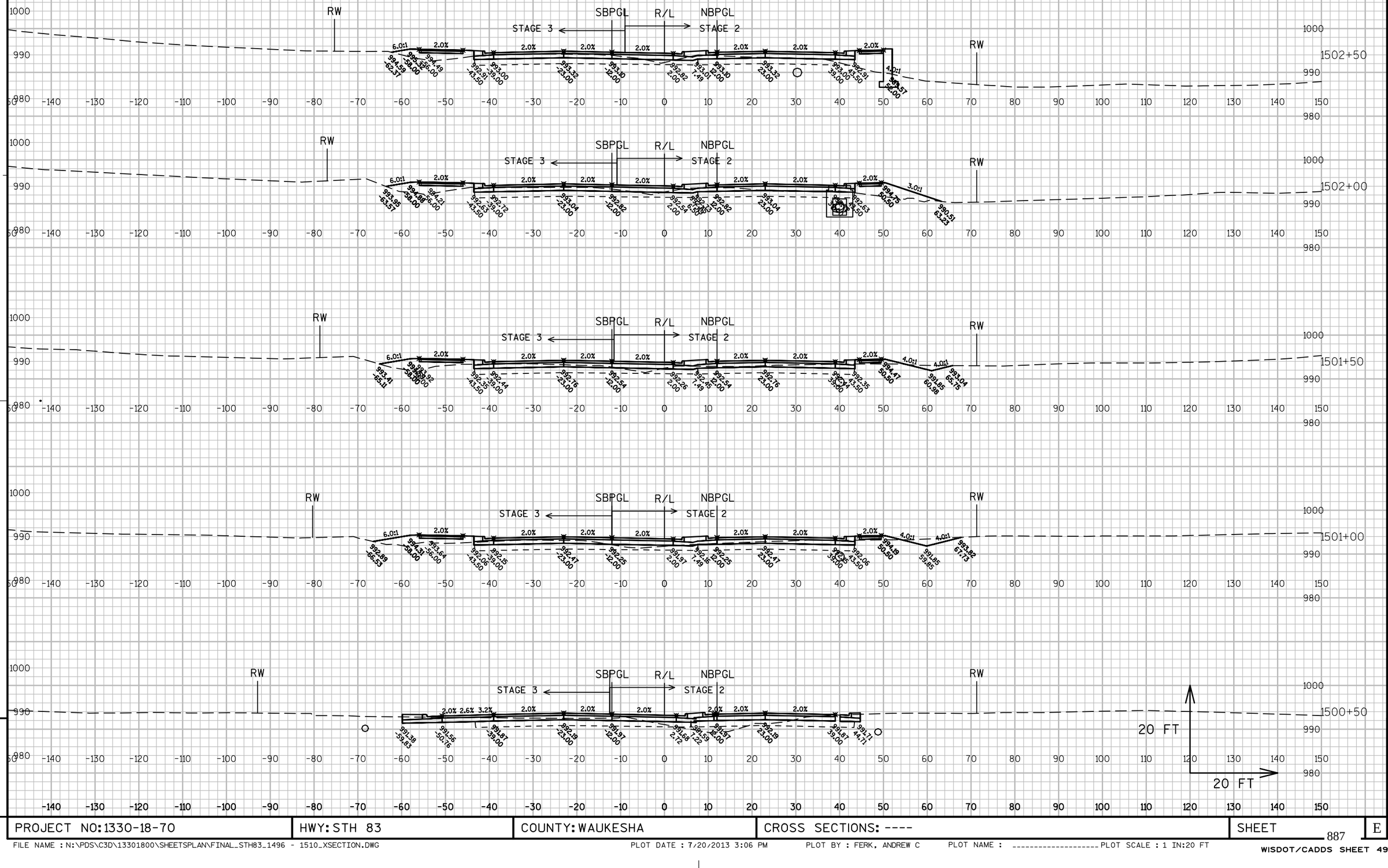
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1496 - 1510_XSECTION.DWG PLOT DATE : 7/20/2013 3:05 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



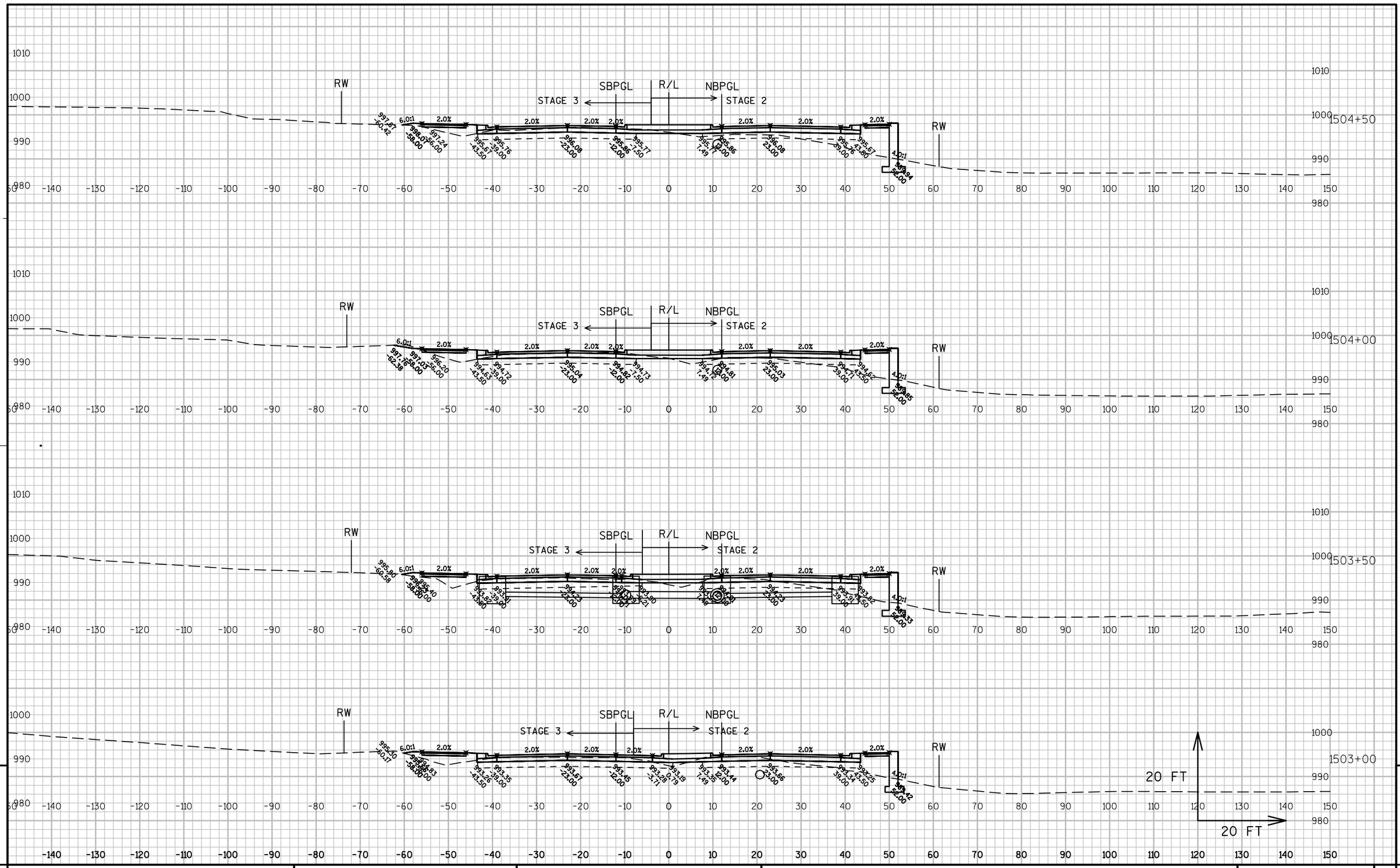
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1496 - 1510_XSECTION.DWG PLOT DATE : 7/20/2013 3:06 PM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT



PROJECT NO:1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

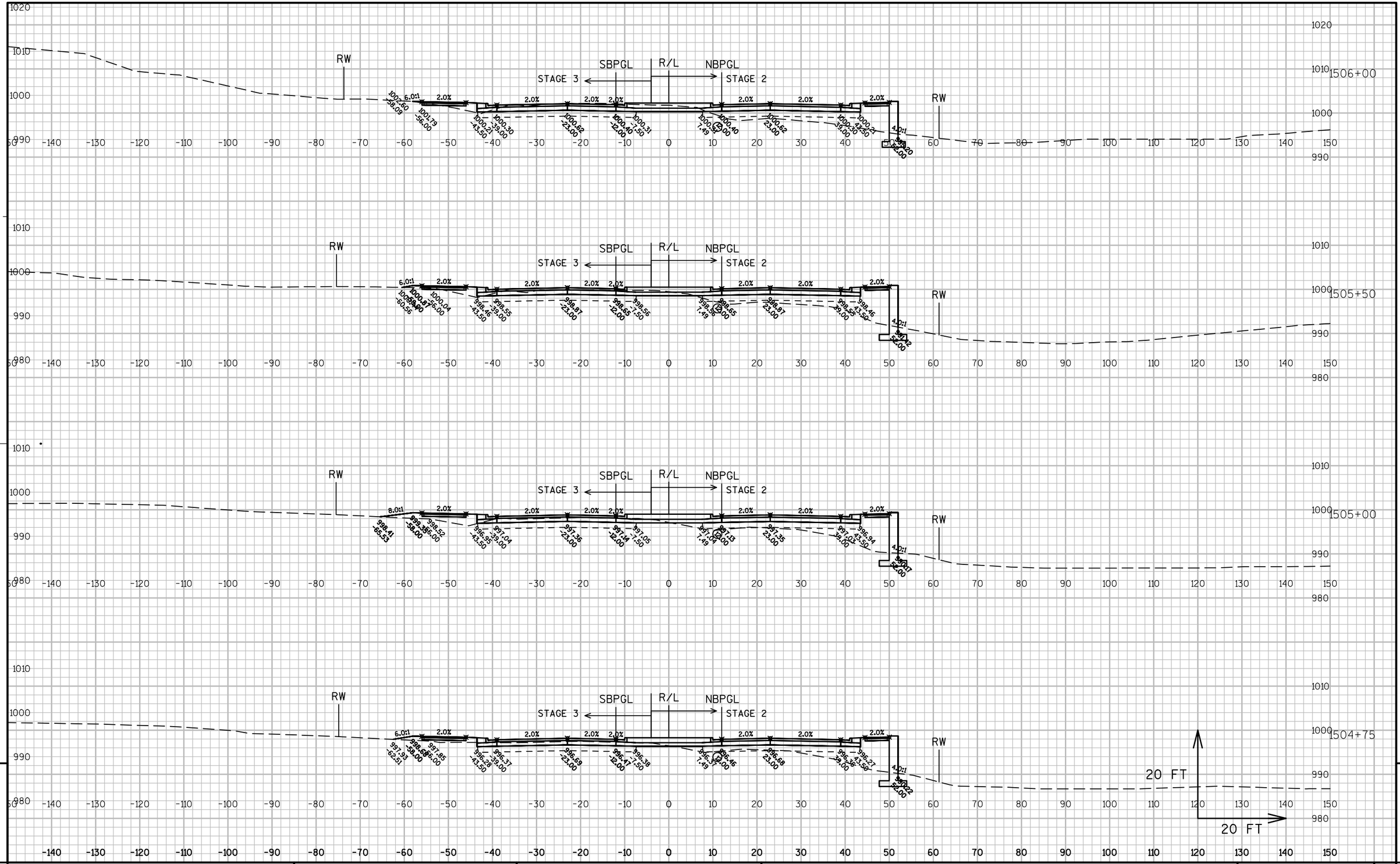
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1496 - 1510_XSECTION.DWG PLOT DATE : 7/20/2013 3:06 PM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT



9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 888	E

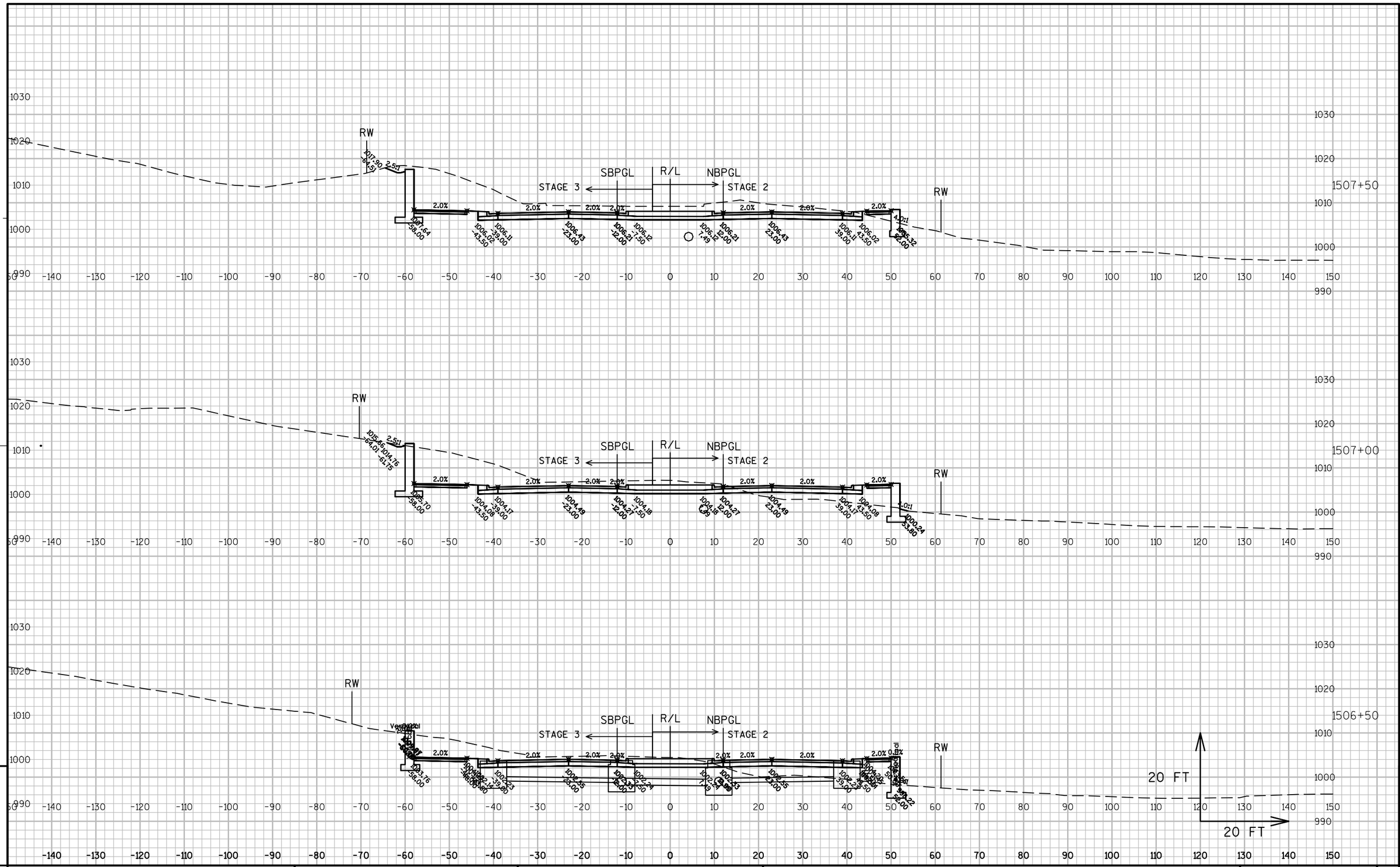


9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

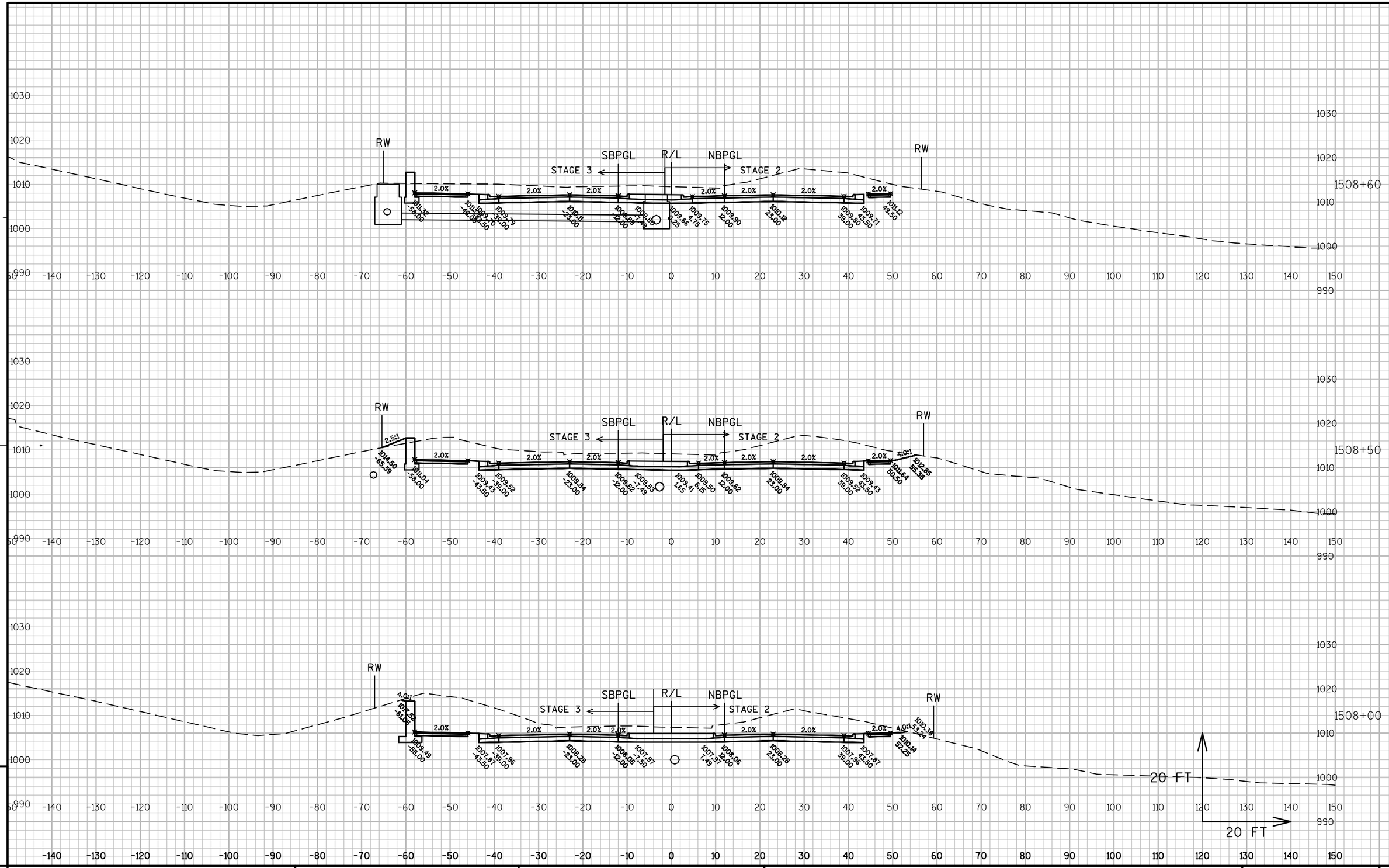
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1496 - 1510_XSECTION.DWG PLOT DATE : 7/20/2013 3:06 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 890	E

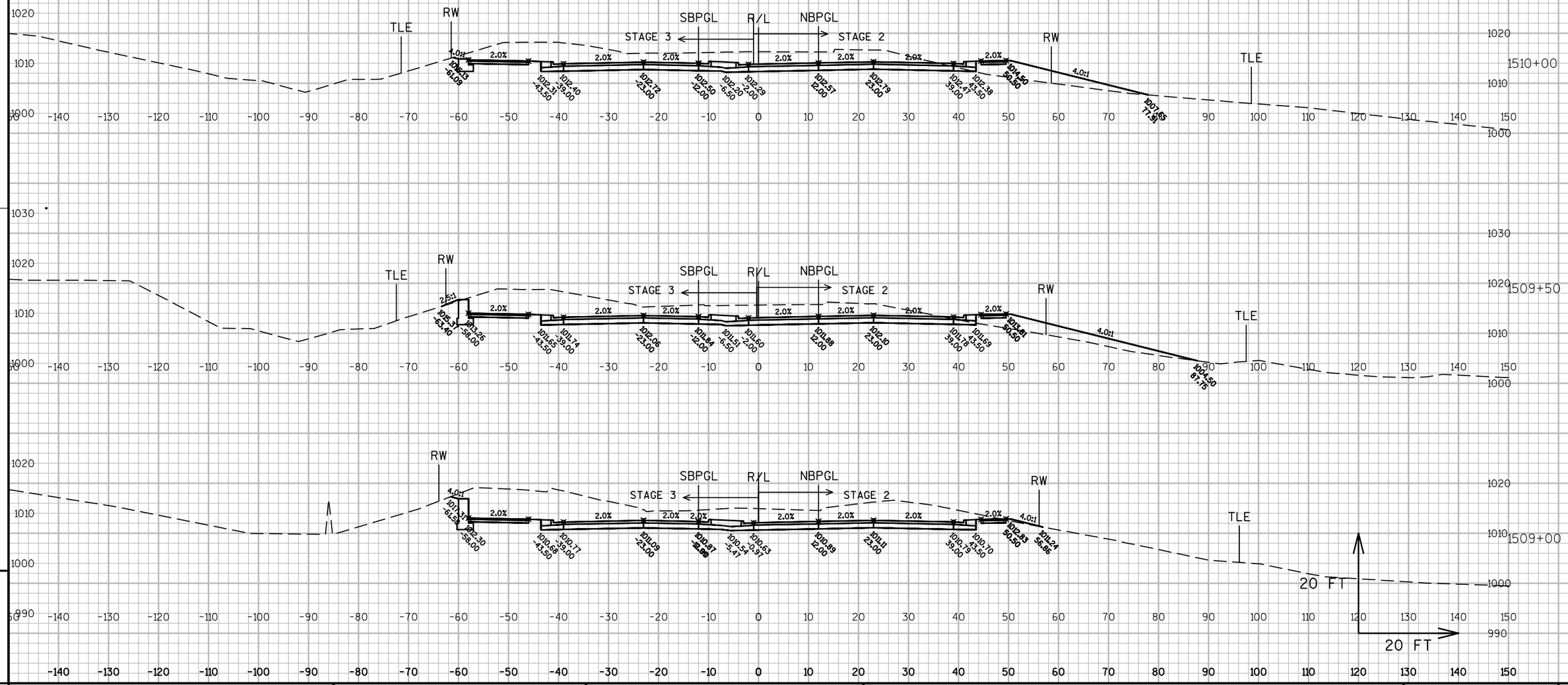
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1496 - 1510_XSECTION.DWG PLOT DATE : 7/20/2013 3:06 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 891	E

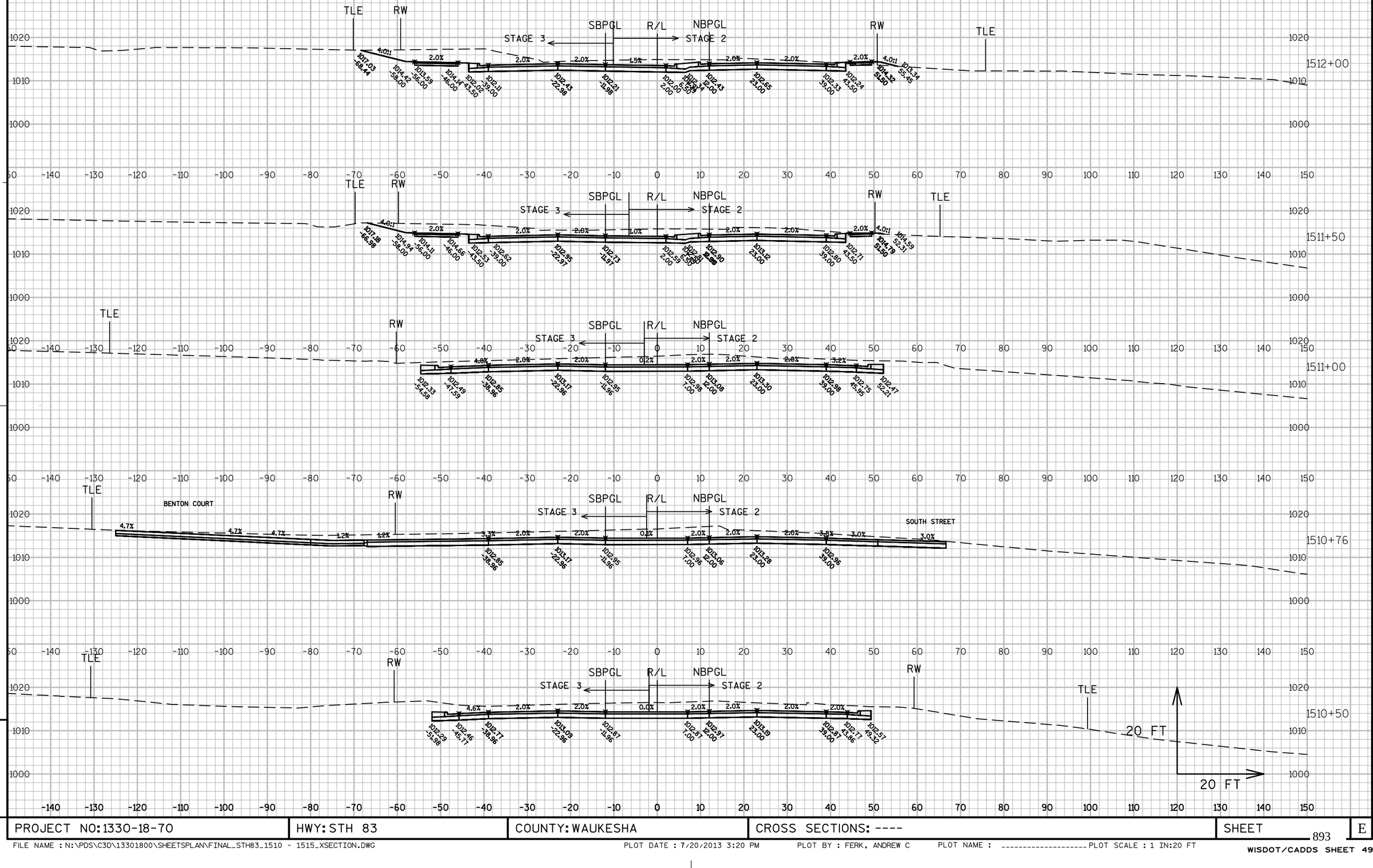
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1496 - 1510_XSECTION.DWG PLOT DATE : 7/20/2013 3:06 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



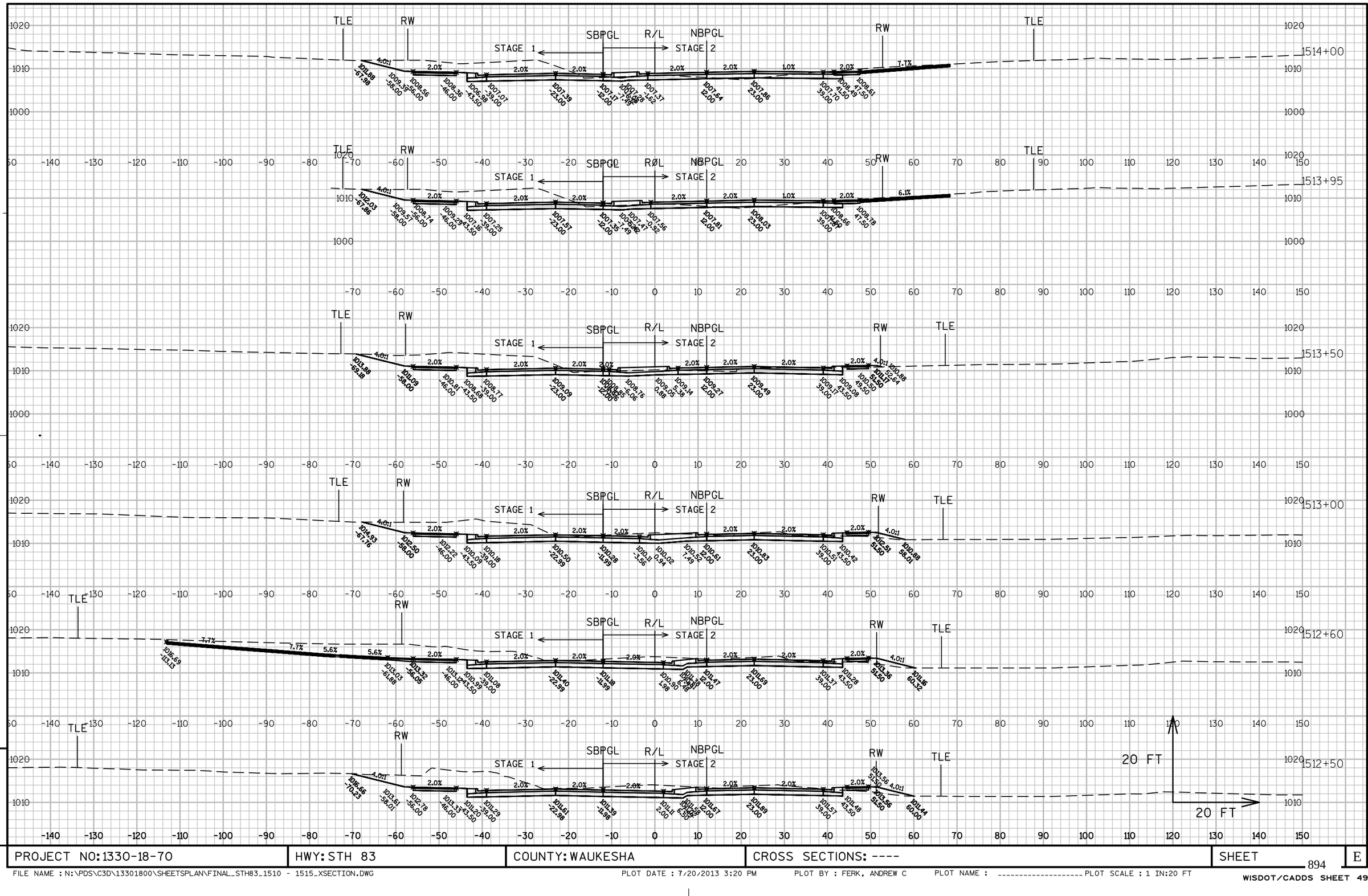
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 892 E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1496 - 1510_XSECTION.DWG PLOT DATE : 7/20/2013 3:06 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

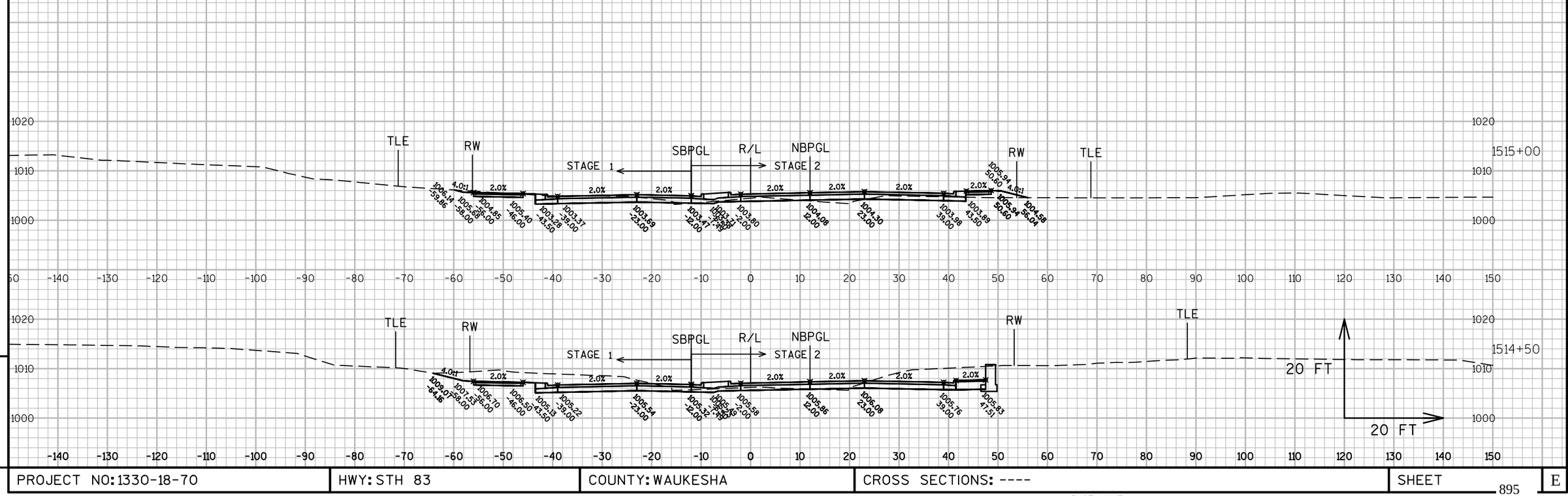


9

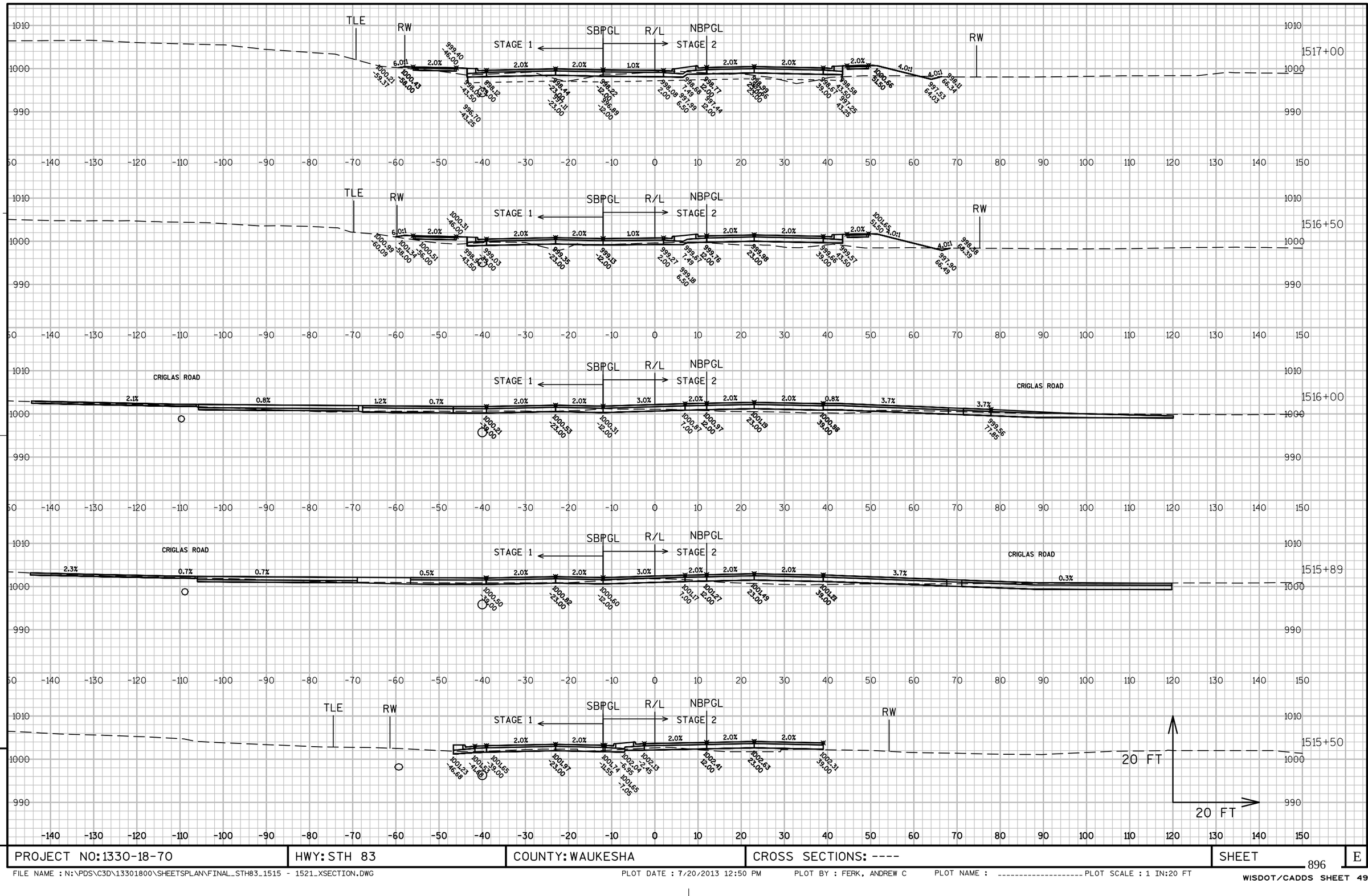
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 894	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1510 - 1515_XSECTION.DWG PLOT DATE : 7/20/2013 3:20 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



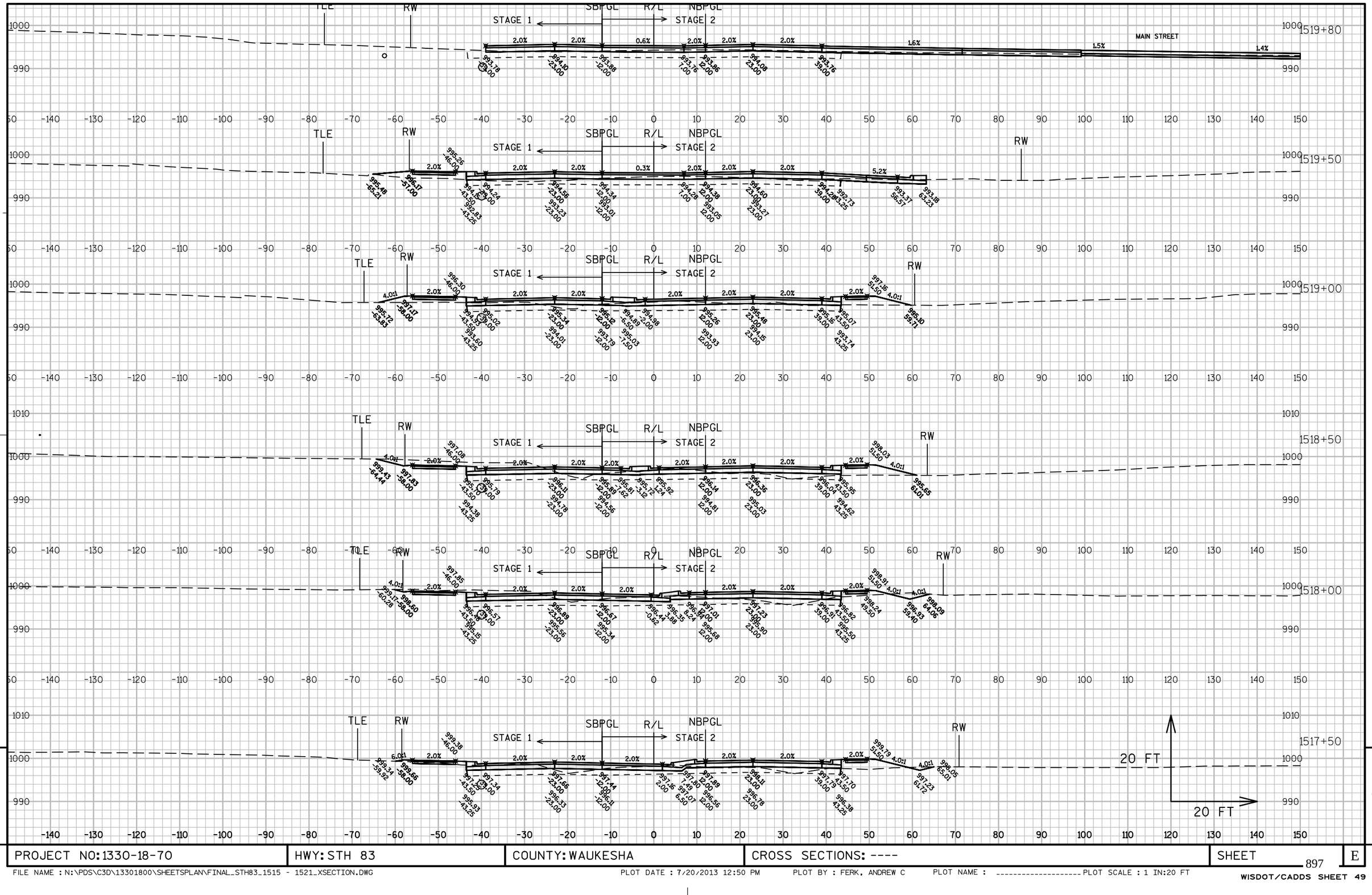
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 895	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 896	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1515 - 1521_XSECTION.DWG PLOT DATE : 7/20/2013 12:50 PM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



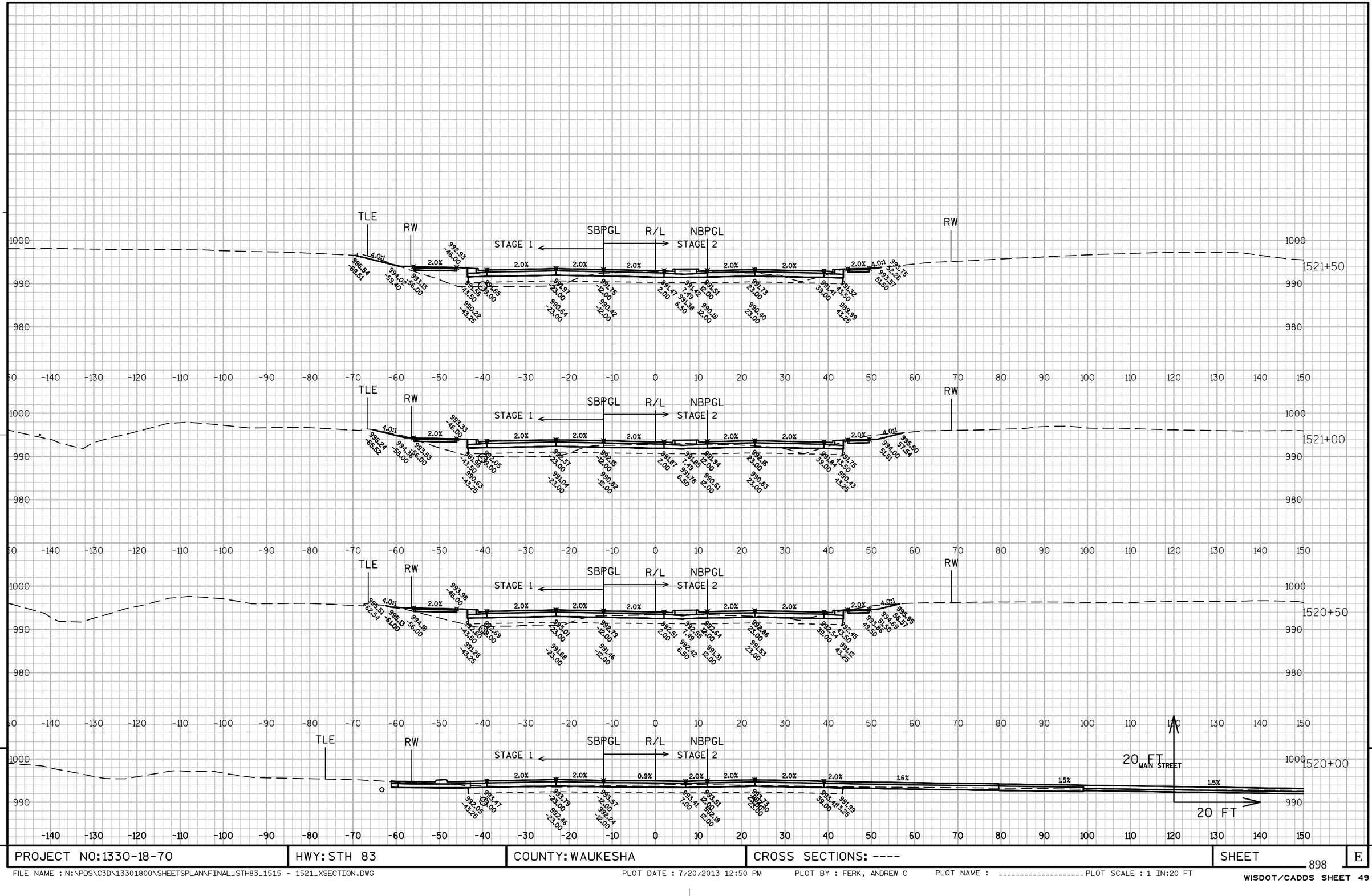
9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 897	E

9

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1515 - 1521_XSECTION.DWG PLOT DATE : 7/20/2013 12:50 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

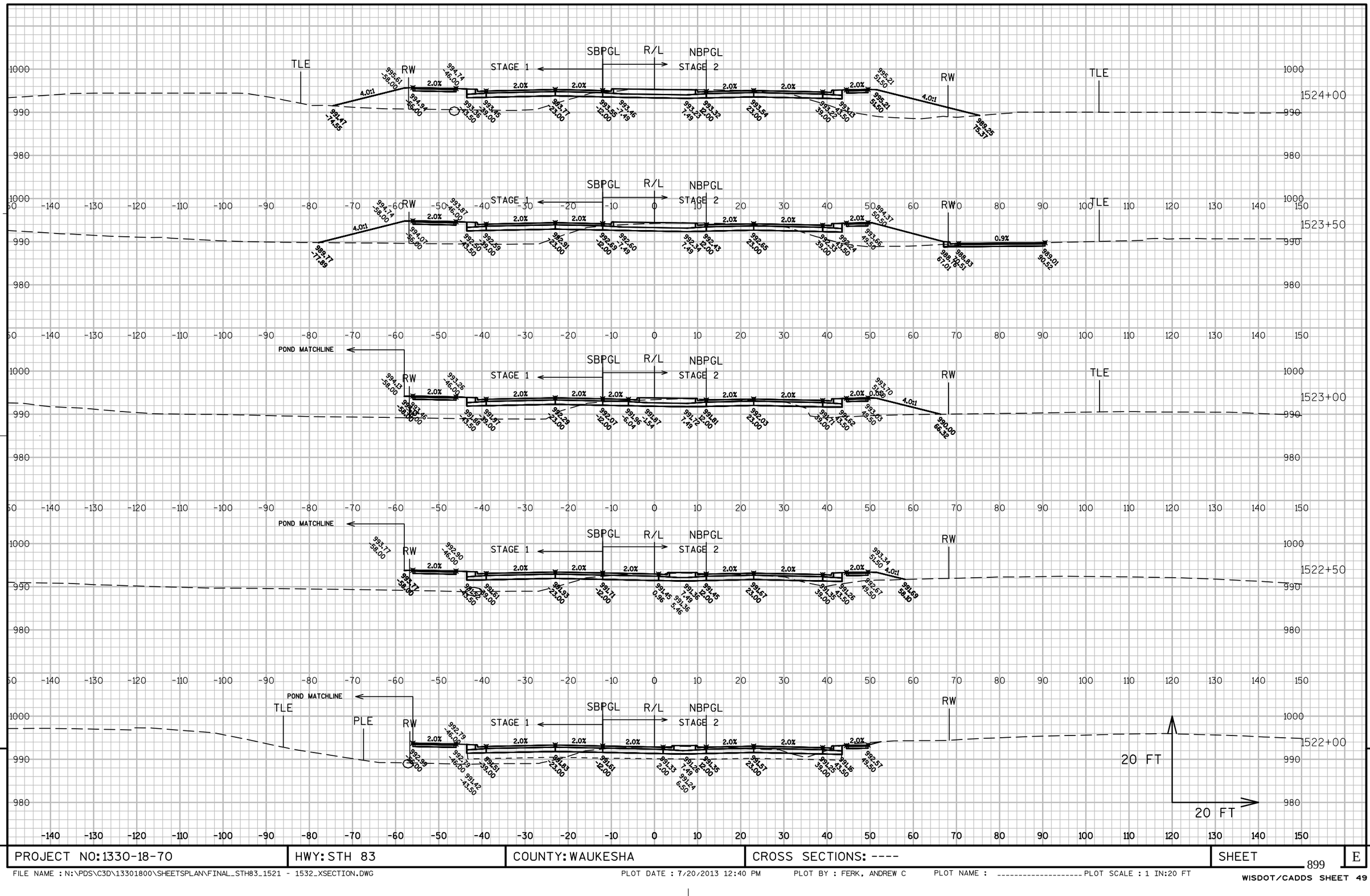
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 898	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1515 - 1521_XSECTION.DWG PLOT DATE : 7/20/2013 12:50 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



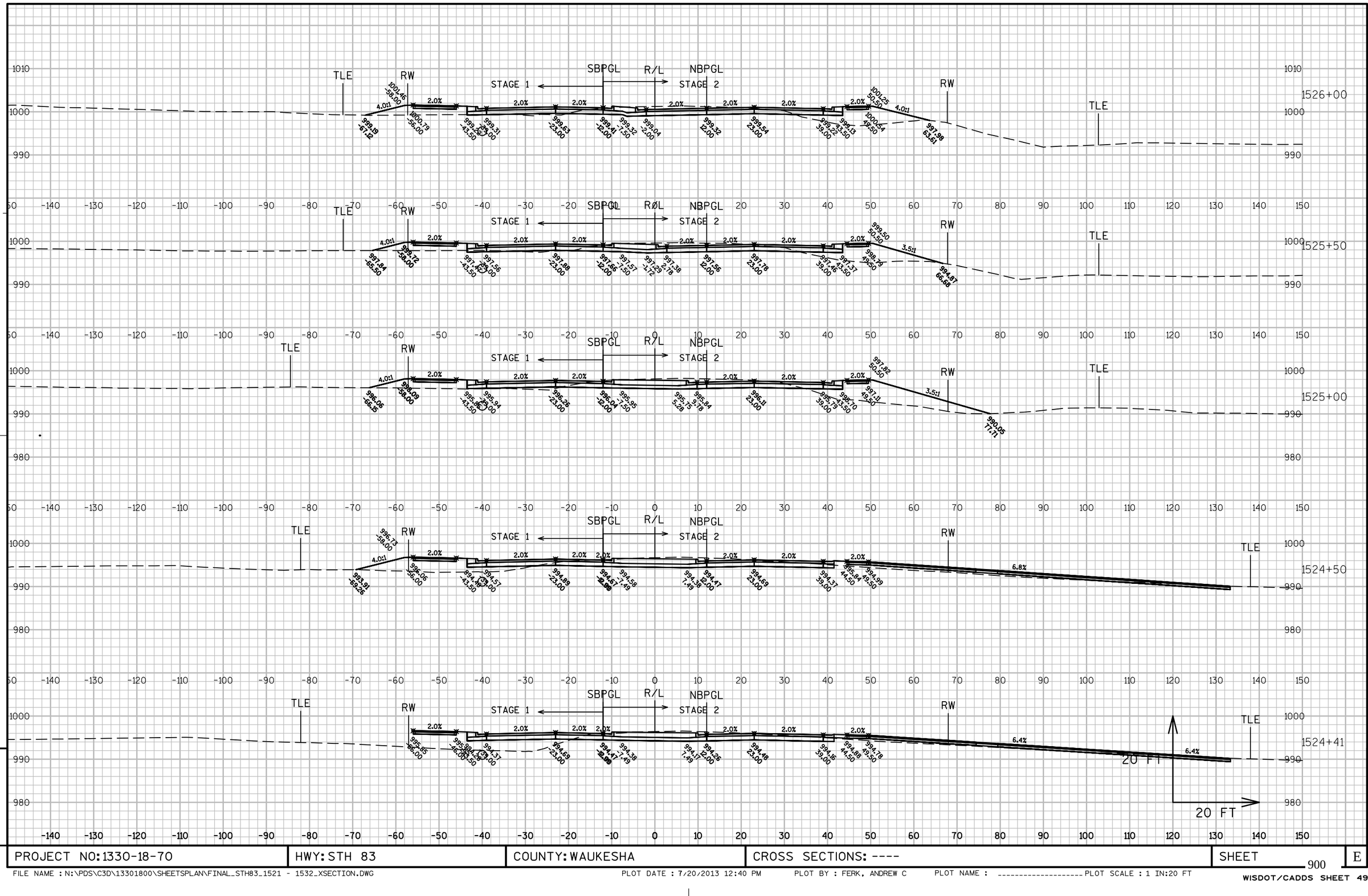
9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

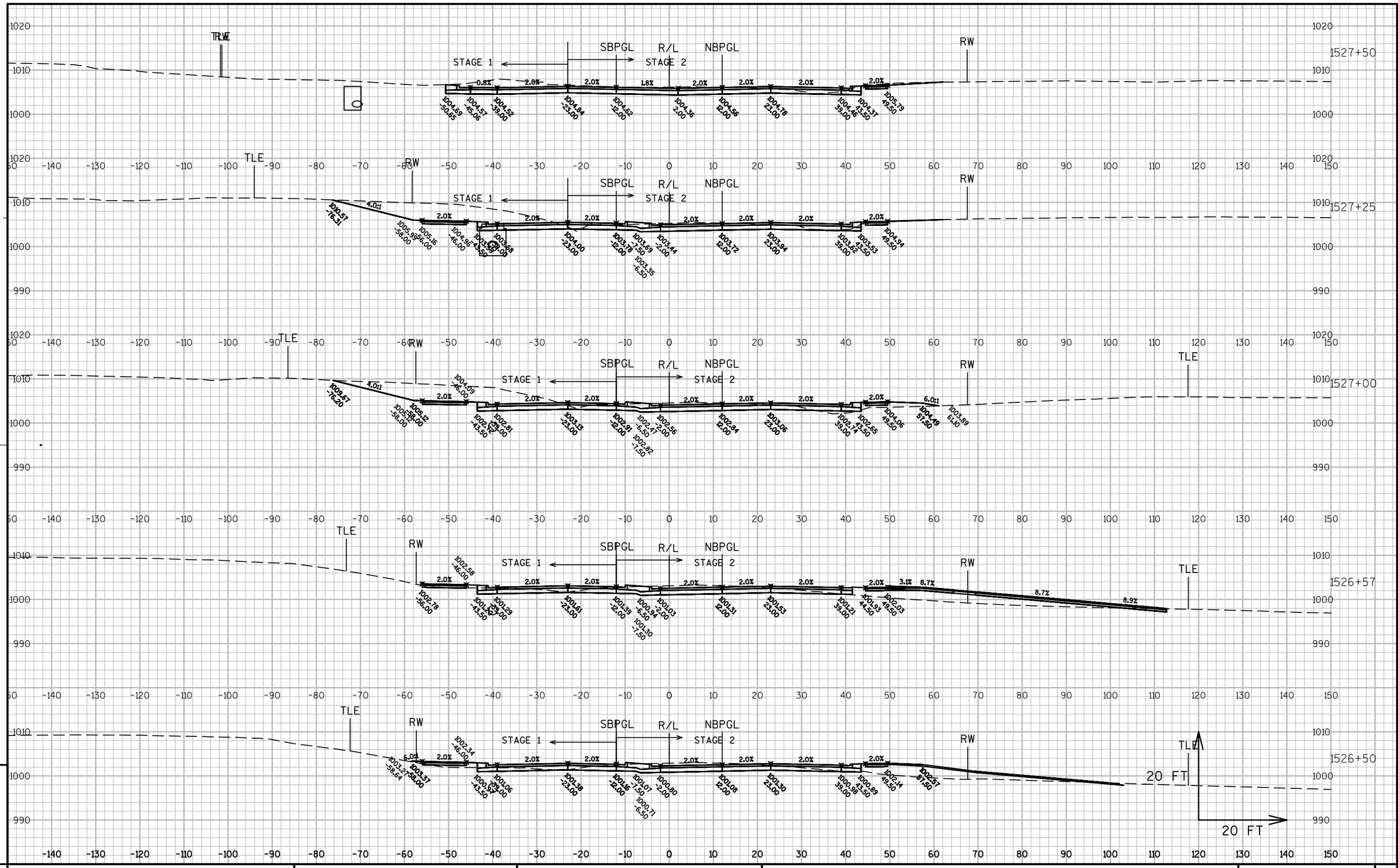
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1521 - 1532_XSECTION.DWG PLOT DATE : 7/20/2013 12:40 PM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

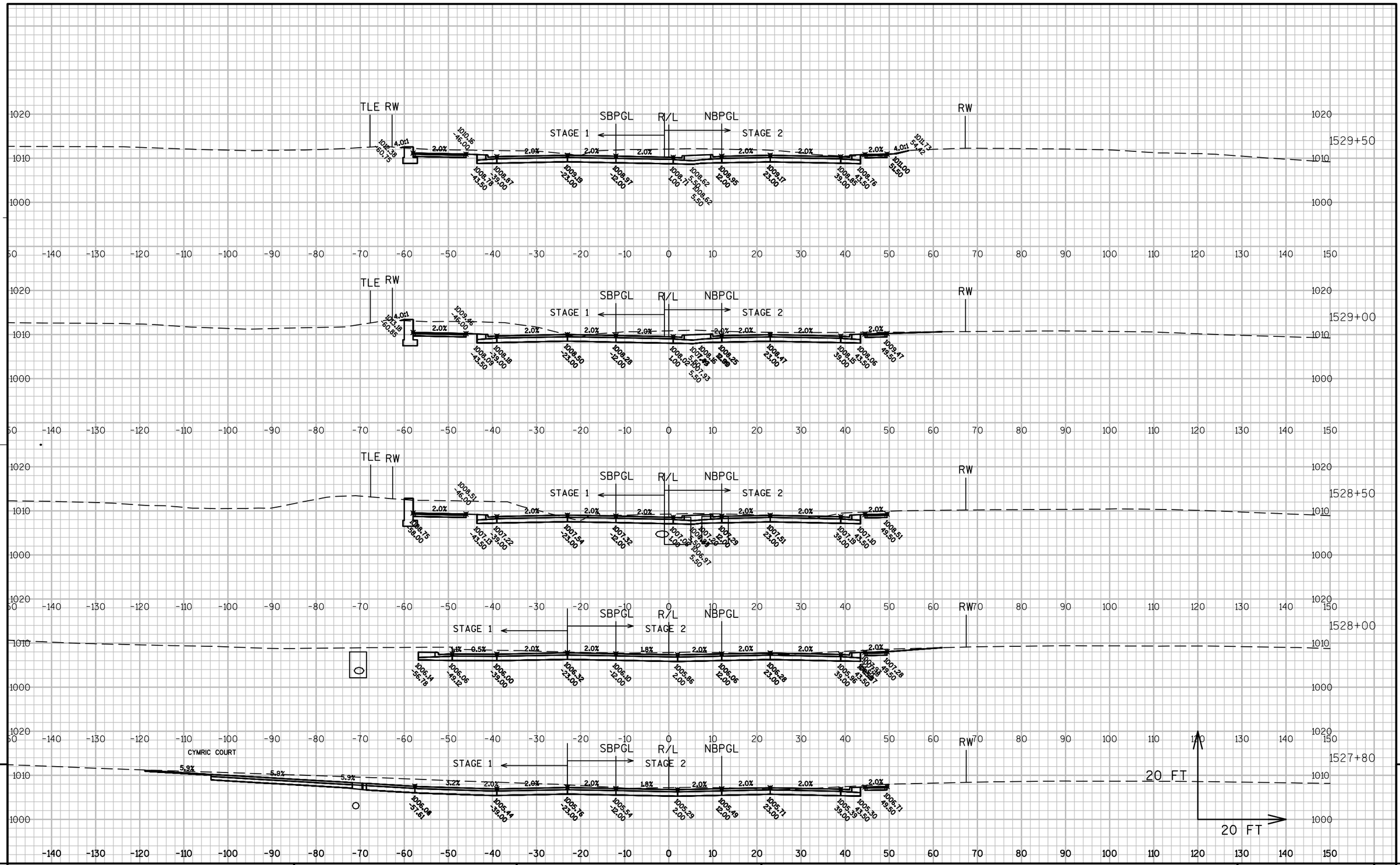
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1521 - 1532_XSECTION.DWG PLOT DATE : 7/20/2013 12:40 PM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1521 - 1532_XSECTION.DWG PLOT DATE : 7/20/2013 12:41 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

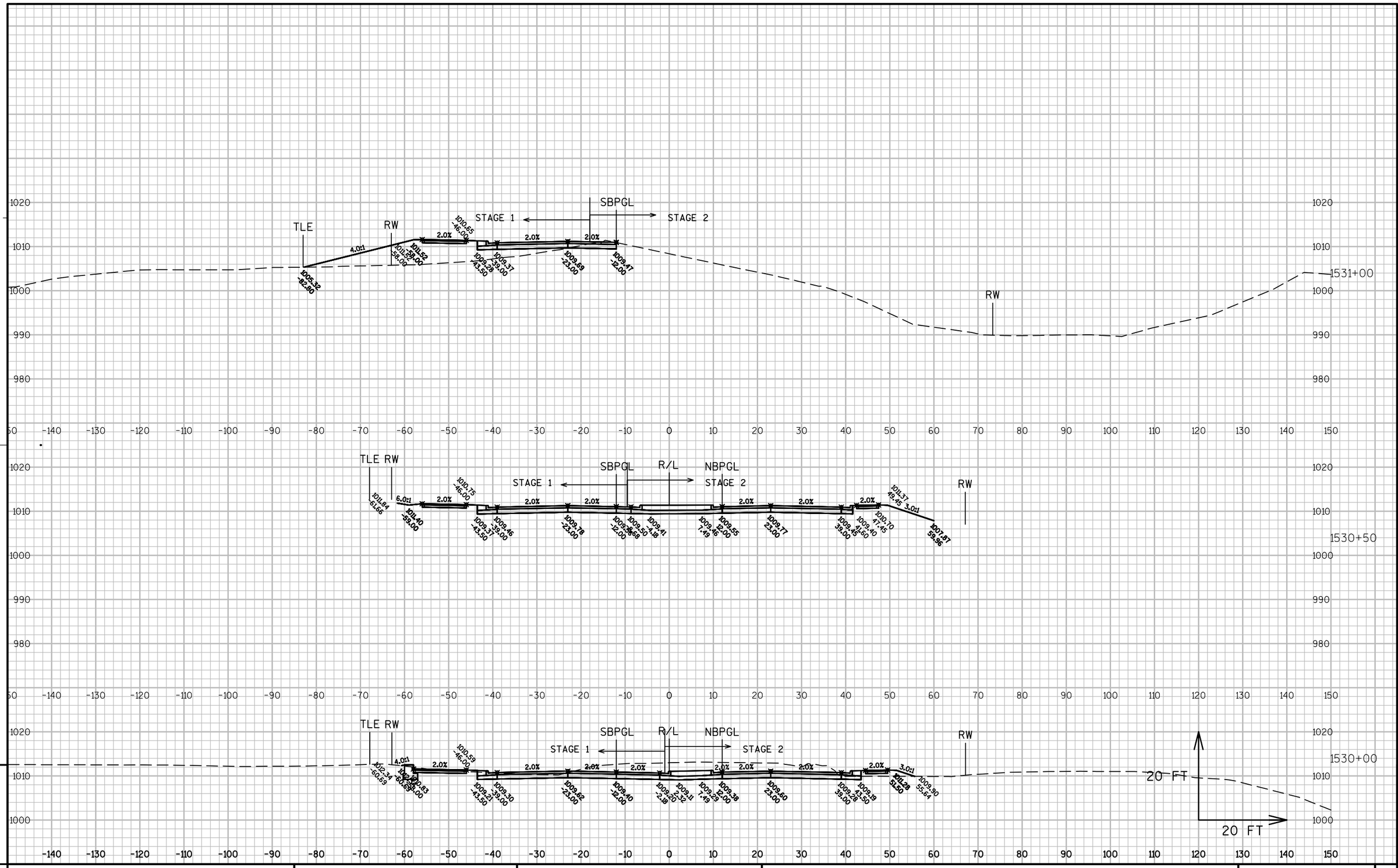
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1521 - 1532_XSECTION.DWG PLOT DATE : 7/20/2013 12:41 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

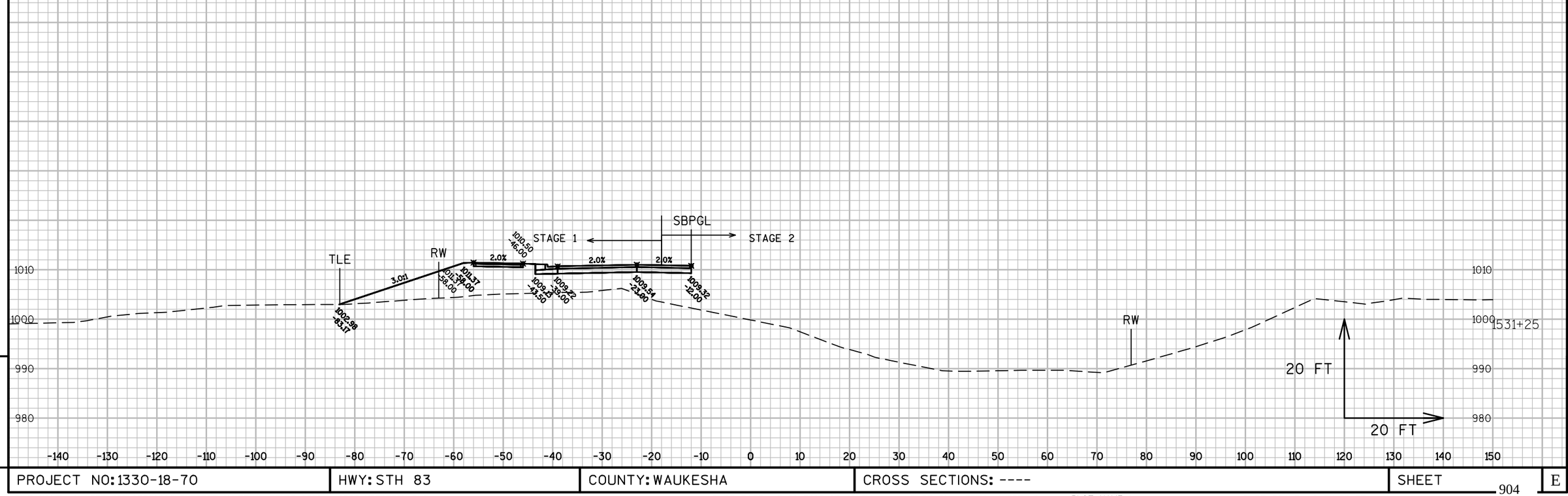
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 903 E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1521 - 1532_XSECTION.DWG PLOT DATE : 7/20/2013 12:41 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

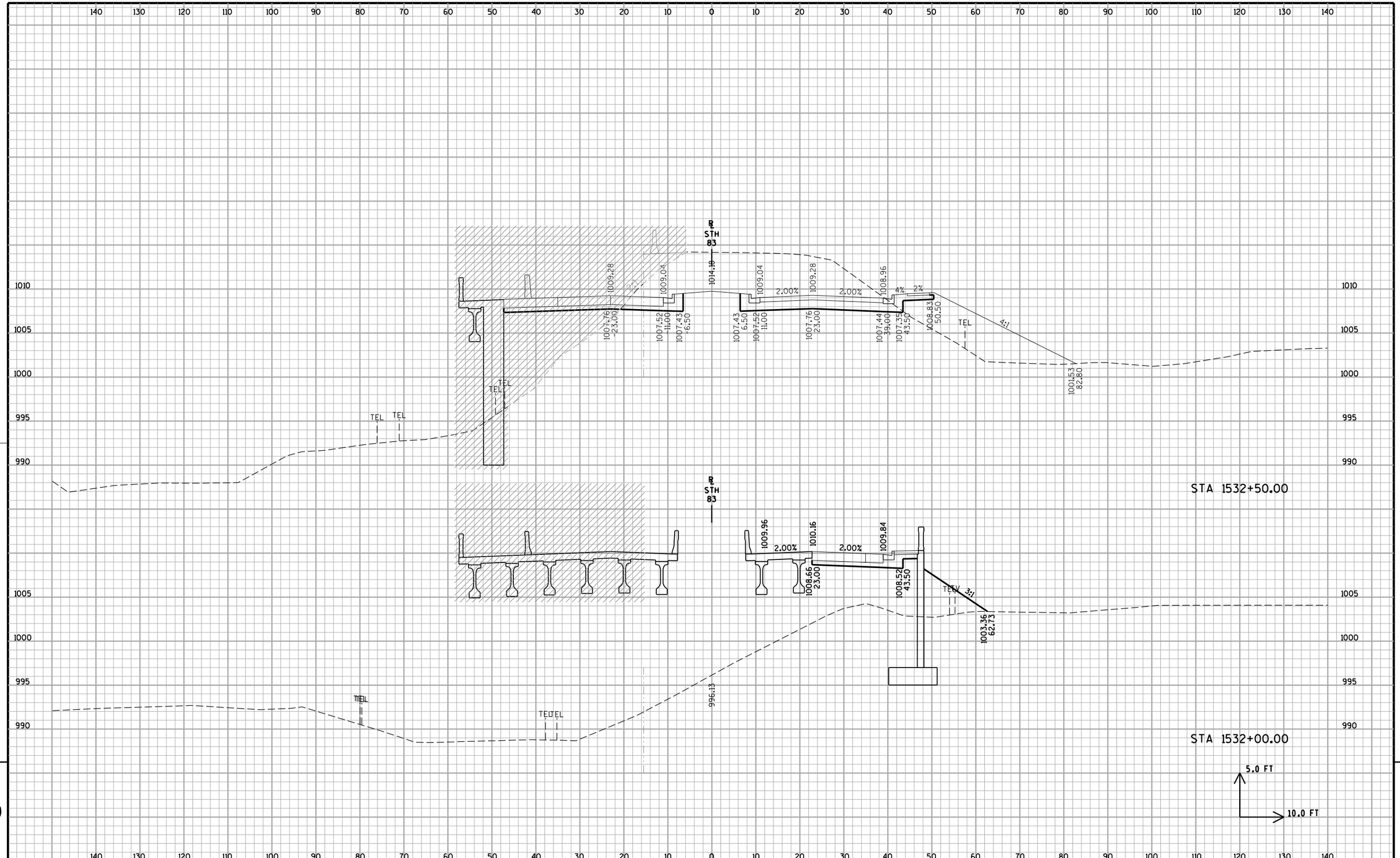


9

9

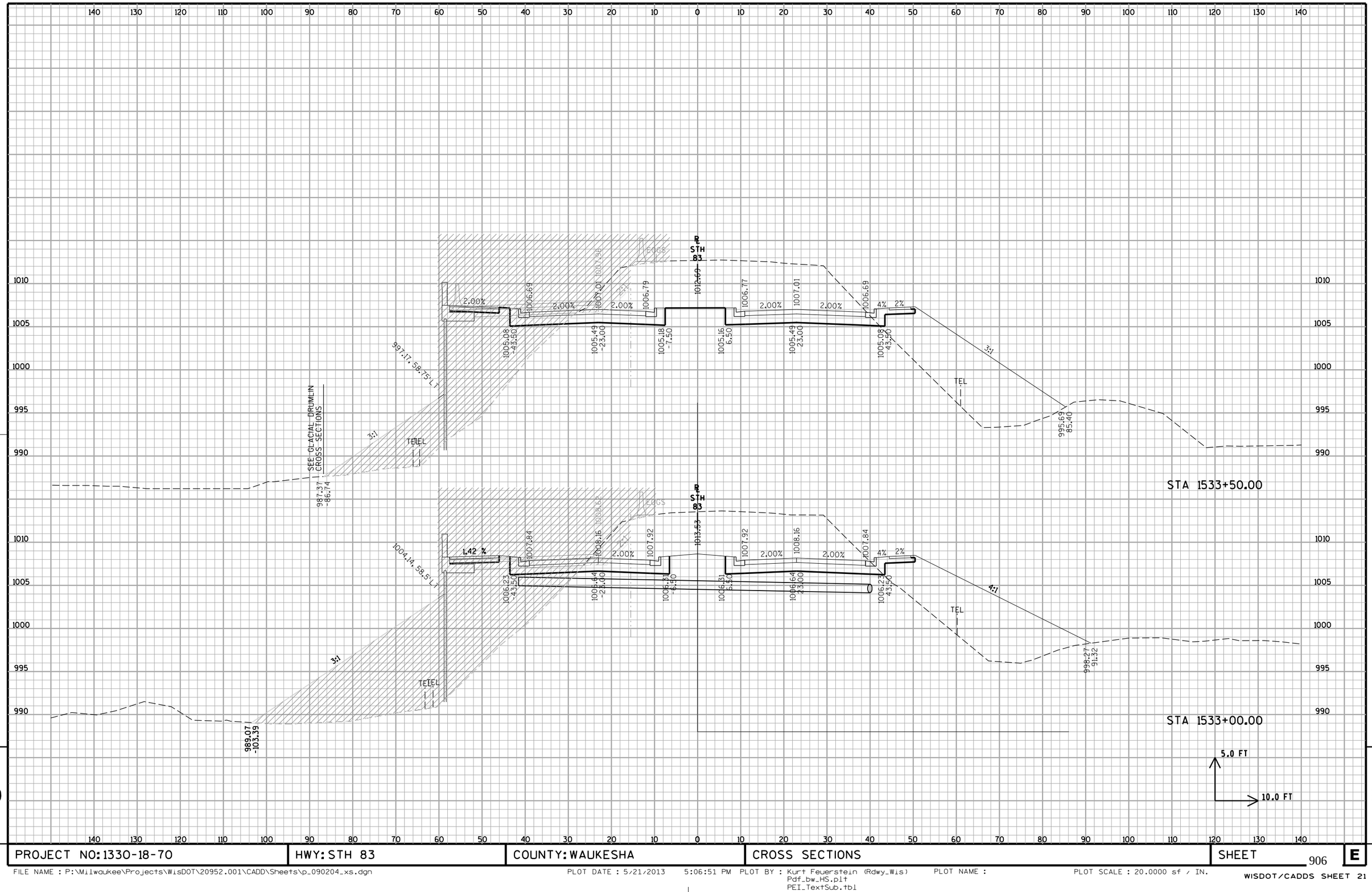
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1521 - 1532_XSECTION.DWG PLOT DATE : 7/20/2013 12:41 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 905	E

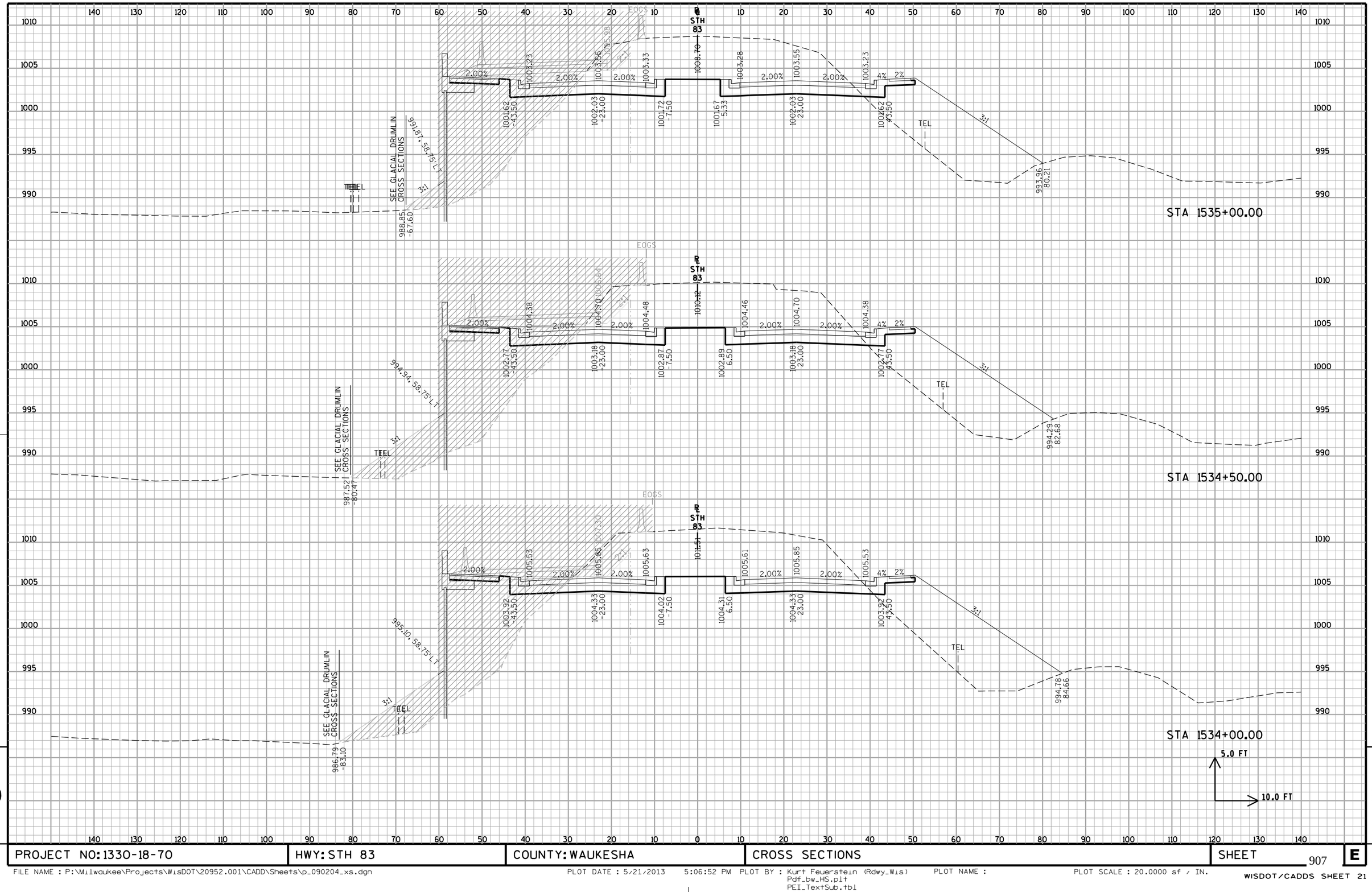
FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_090204_xs.dgn
PLOT DATE : 5/21/2013 5:06:51 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 sf / IN.
WISDOT/CADDS SHEET 21

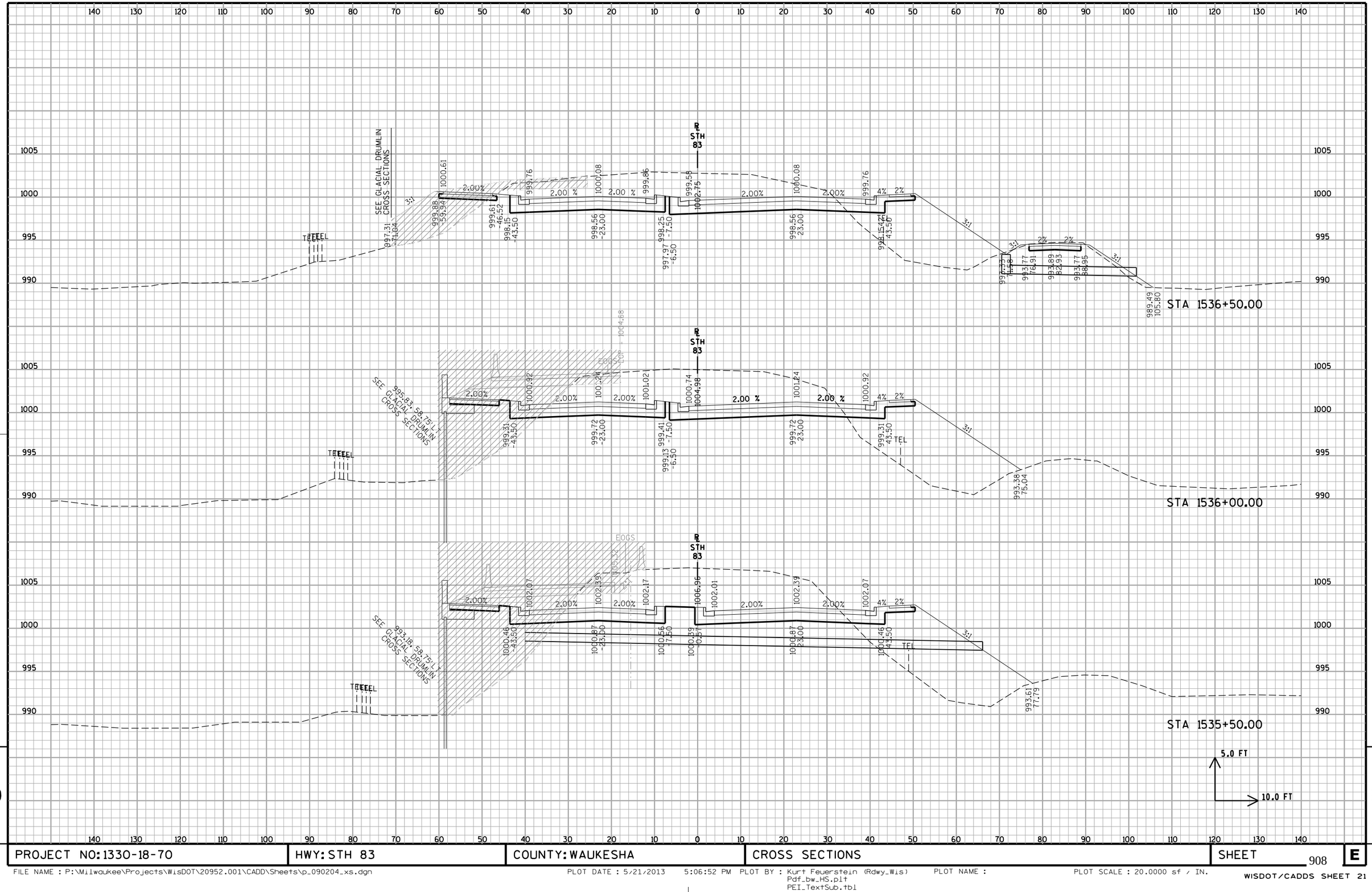


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 906	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_090204_xs.dgn PLOT DATE : 5/21/2013 5:06:51 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 sf / IN.

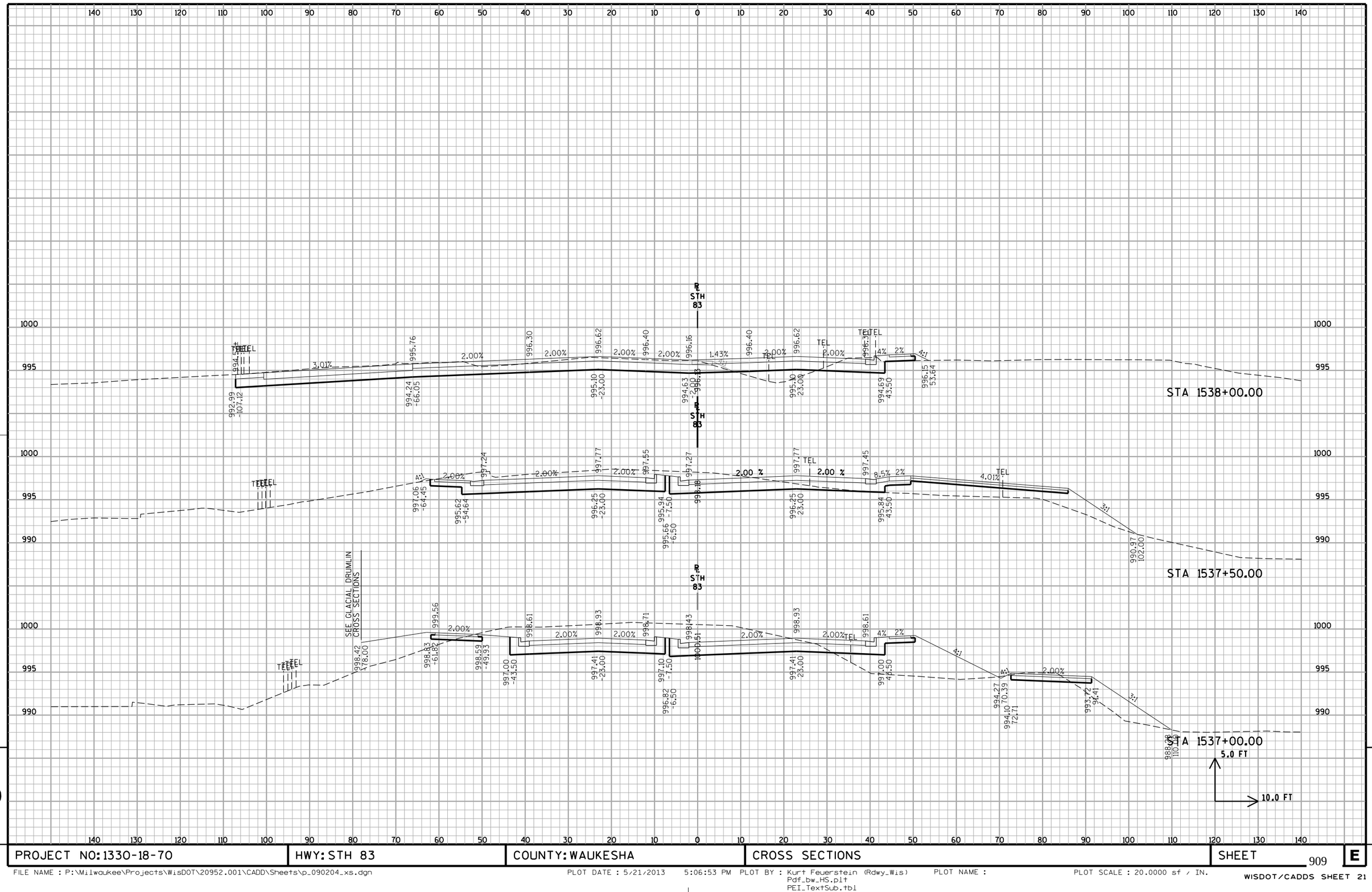
WISDOT/CADDS SHEET 21


STA 1535+00.00
STA 1534+50.00
STA 1534+00.00
EOGS
℄ STH 83
SEE GLACIAL DRUMLIN CROSS SECTIONS
TEL
3:1
2.00%
4%
2%
991.87 - 58.75 LT
988.85 - 67.60
994.94 - 58.75 LT
987.52 - 80.47
995.10 - 58.75 LT
986.79 - 83.10
993.96 - 80.21
994.29 - 82.68
994.78 - 84.66
5.0 FT
10.0 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 908	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_090204_xs.dgn
PLOT DATE : 5/21/2013 5:06:52 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 sf / IN.
WISDOT/CADDS SHEET 21



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 909	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_090204_xs.dgn PLOT DATE : 5/21/2013 5:06:53 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 sf / IN.

WISDOT/CADDS SHEET 21

NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 539+00.00

STA 39+00.00

STA 538+50.00

STA 38+50.00

STA 538+26.87

STA 38+26.87

5.0 FT

10.0 FT

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 910	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090205_xs.dgn PLOT DATE : 5/21/2013 5:06:54 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21

NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 540+50.00

STA 40+50.00

STA 540+00.00

STA 40+00.00

STA 539+50.00

STA 39+50.00

5.0 FT

10.0 FT

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 911 E

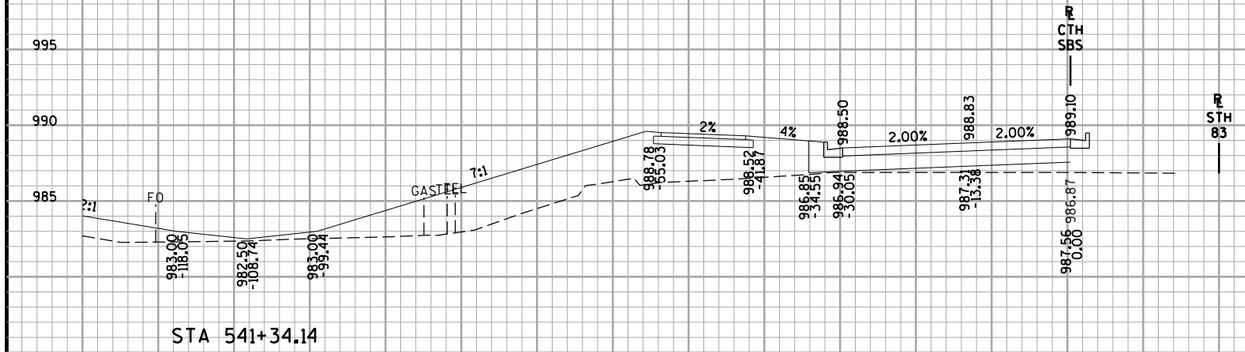
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

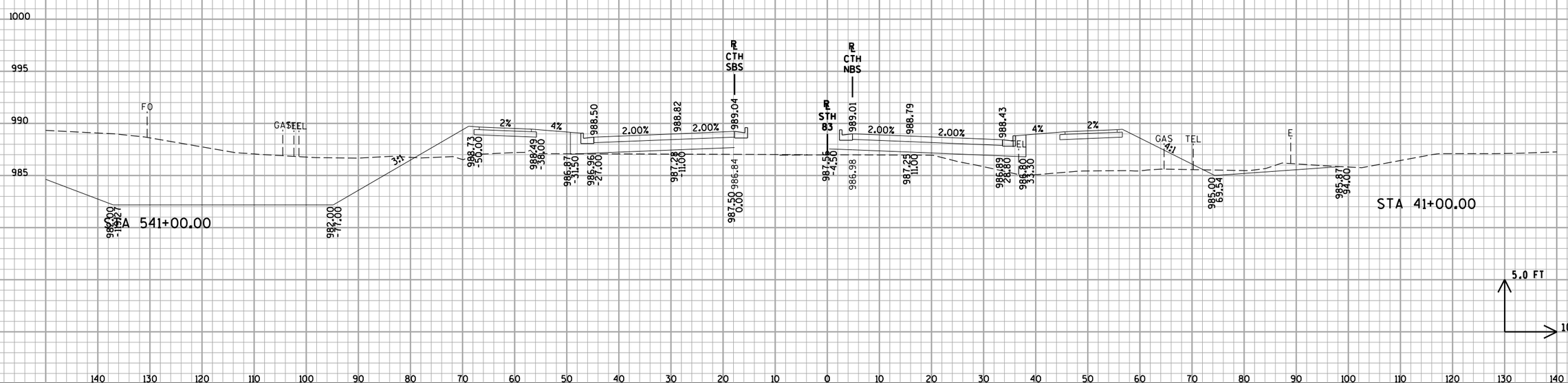
LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



STA 541+34.14



STA 541+00.00

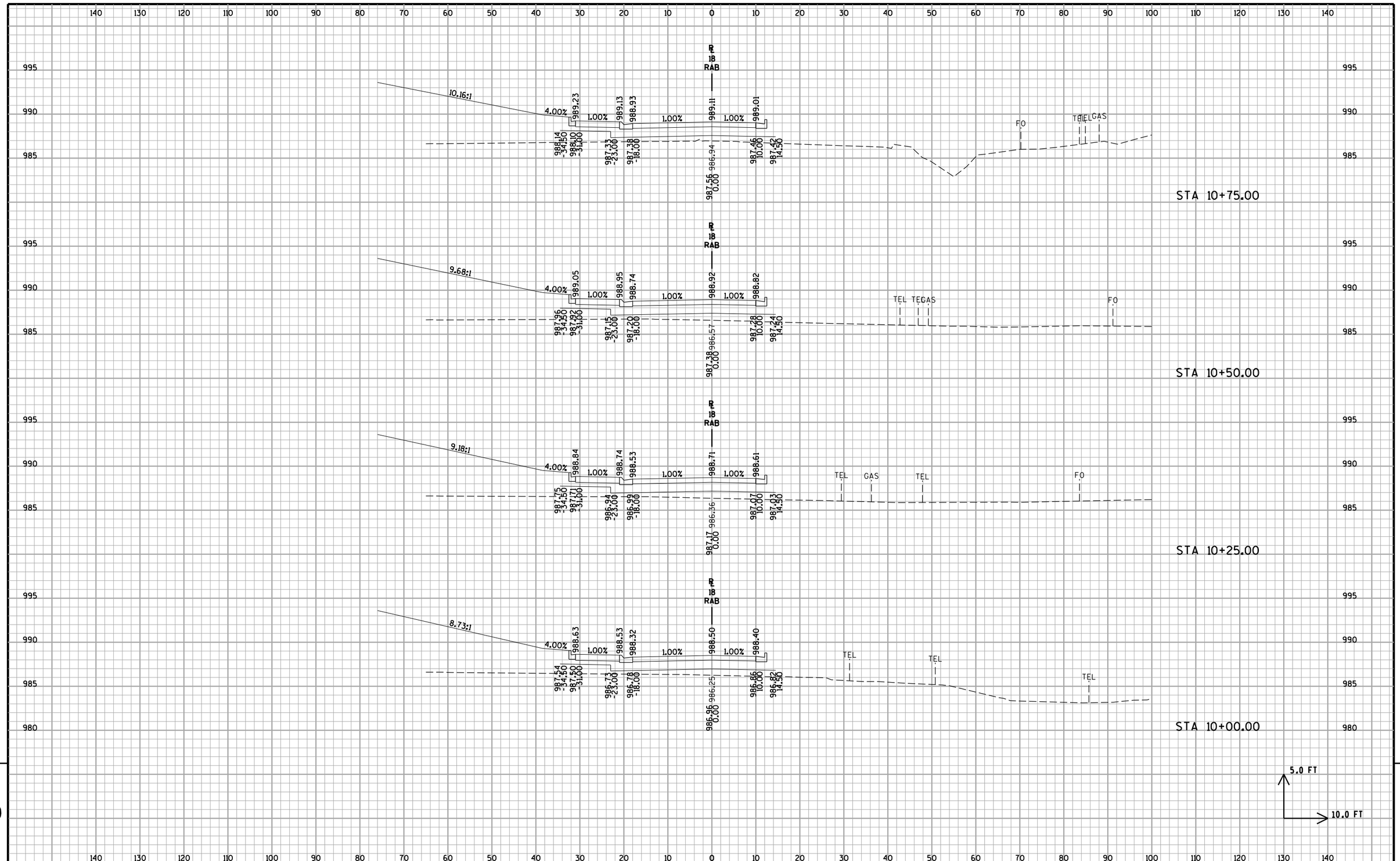
STA 41+00.00

9

9

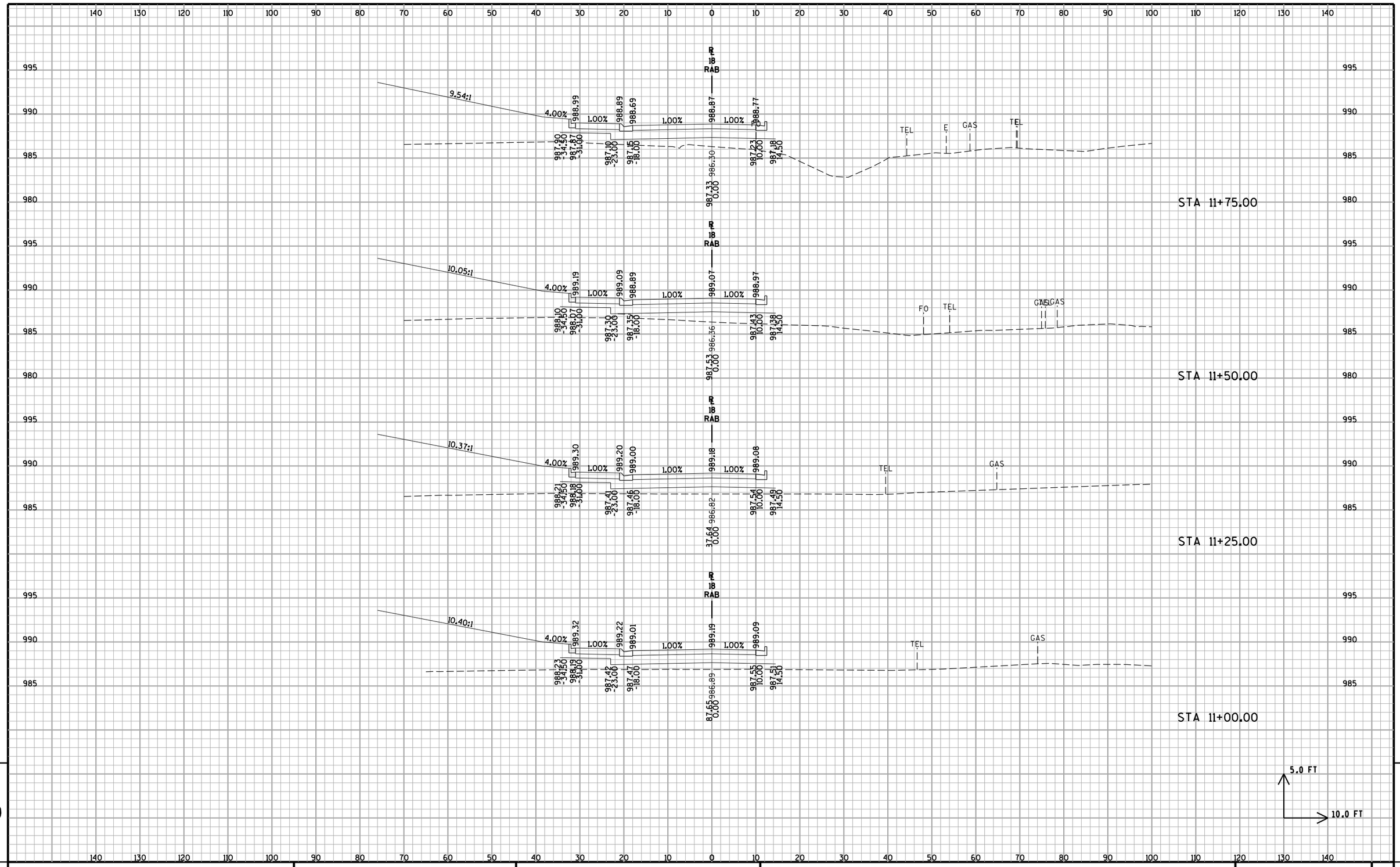
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090205_xs.dgn
PLOT DATE : 5/21/2013 5:06:56 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



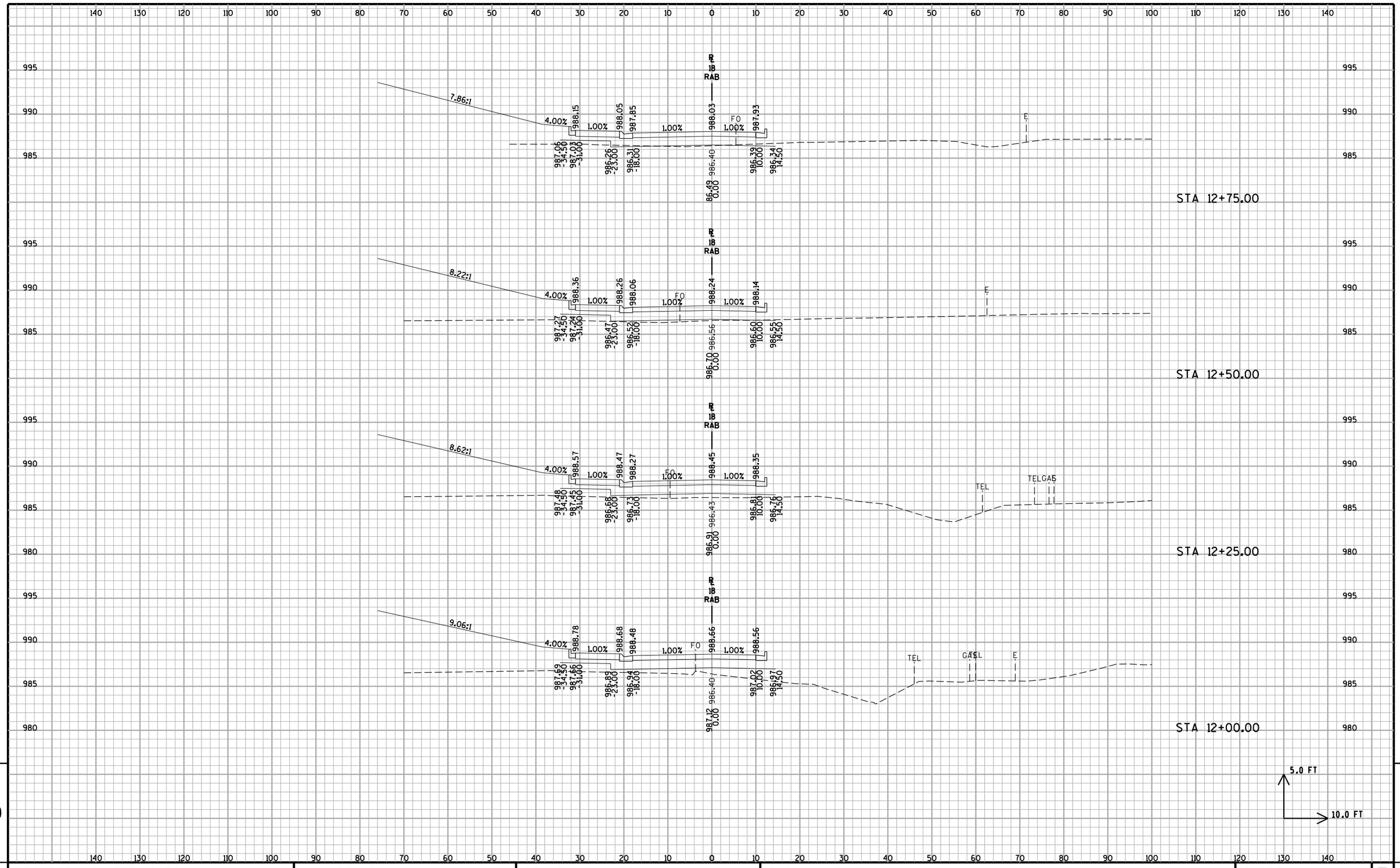
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 913	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090206_xs.dgn
PLOT DATE : 5/21/2013 5:06:57 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



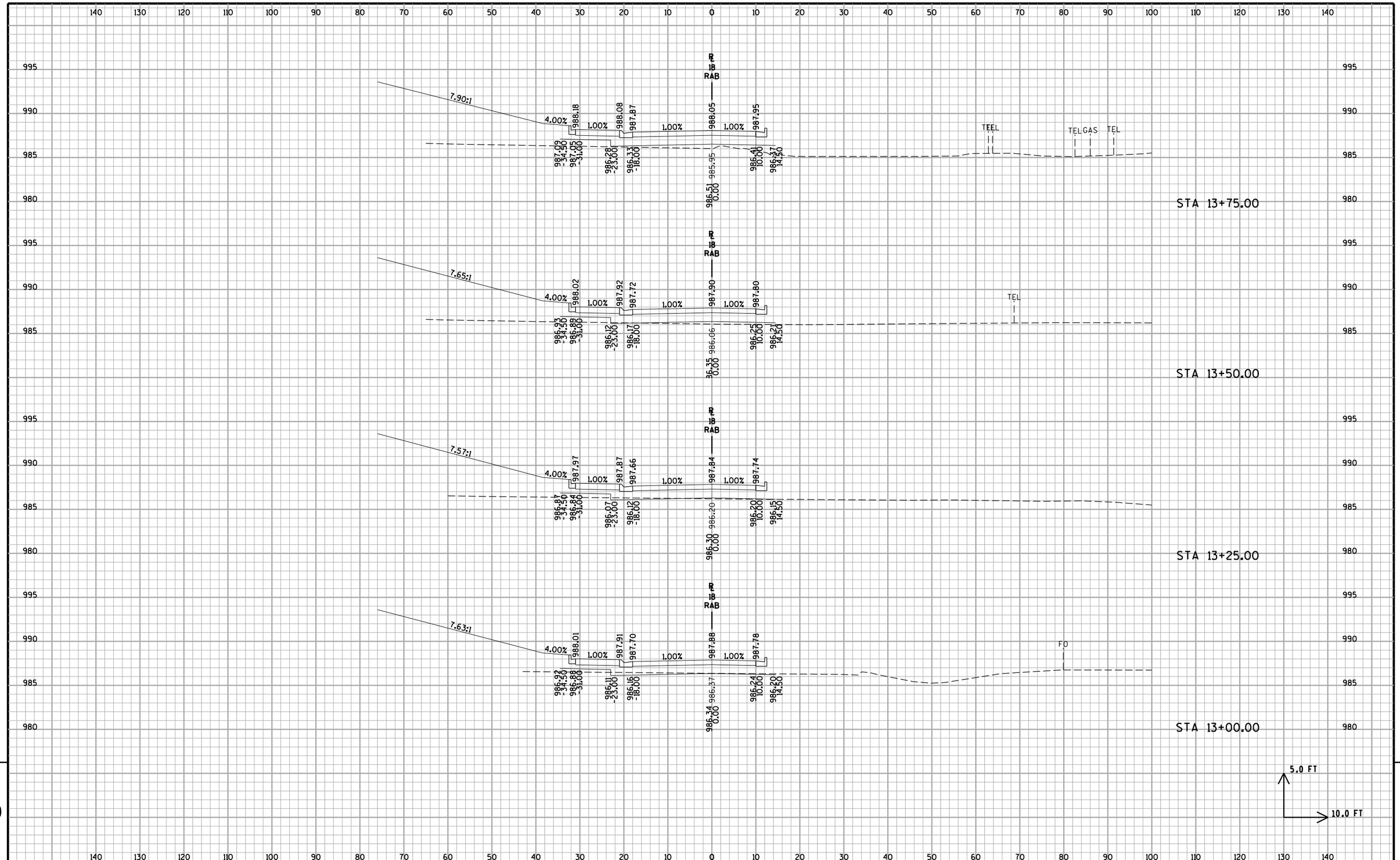
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 914 E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090206_xs.dgn
PLOT DATE : 5/21/2013 5:06:58 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET	E

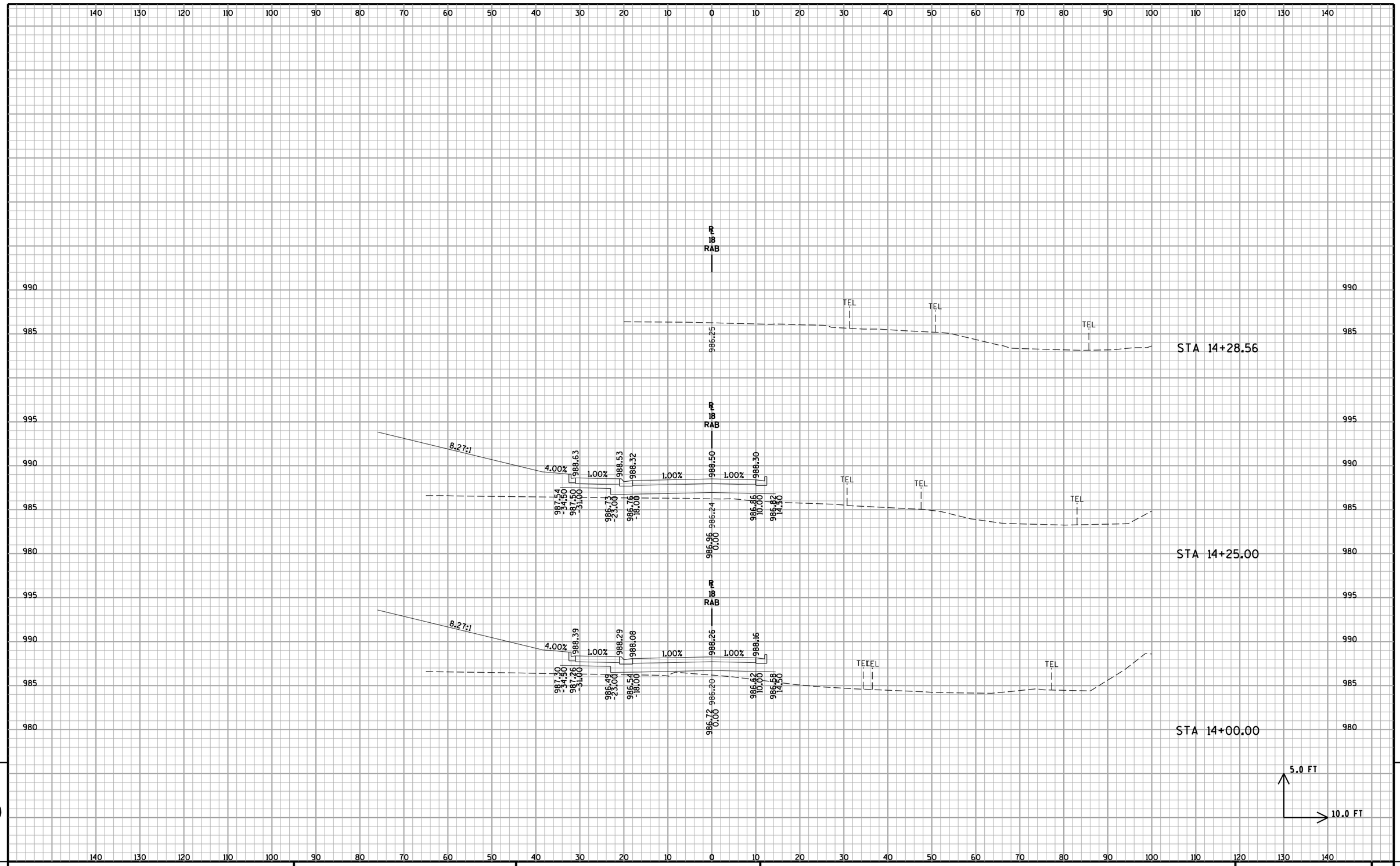
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090206_xs.dgn
PLOT DATE : 5/21/2013 5:06:58 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 916	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090206_xs.dgn PLOT DATE : 5/21/2013 5:06:59 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 917	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090206_xs.dgn PLOT DATE : 5/21/2013 5:06:59 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21

NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 543+50.00

STA 43+50.00

STA 543+00.00

STA 43+00.00

STA 42+85.31

5.0 FT

10.0 FT

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 918 E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090207_xs.dgn PLOT DATE : 5/21/2013 5:07:01 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21

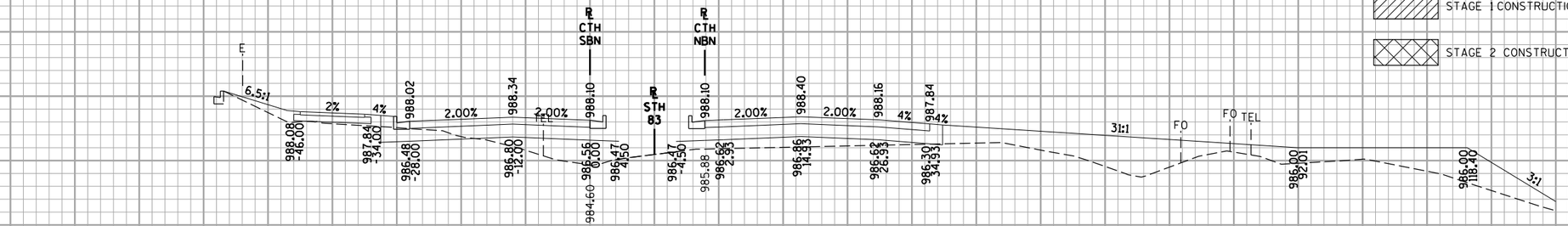
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

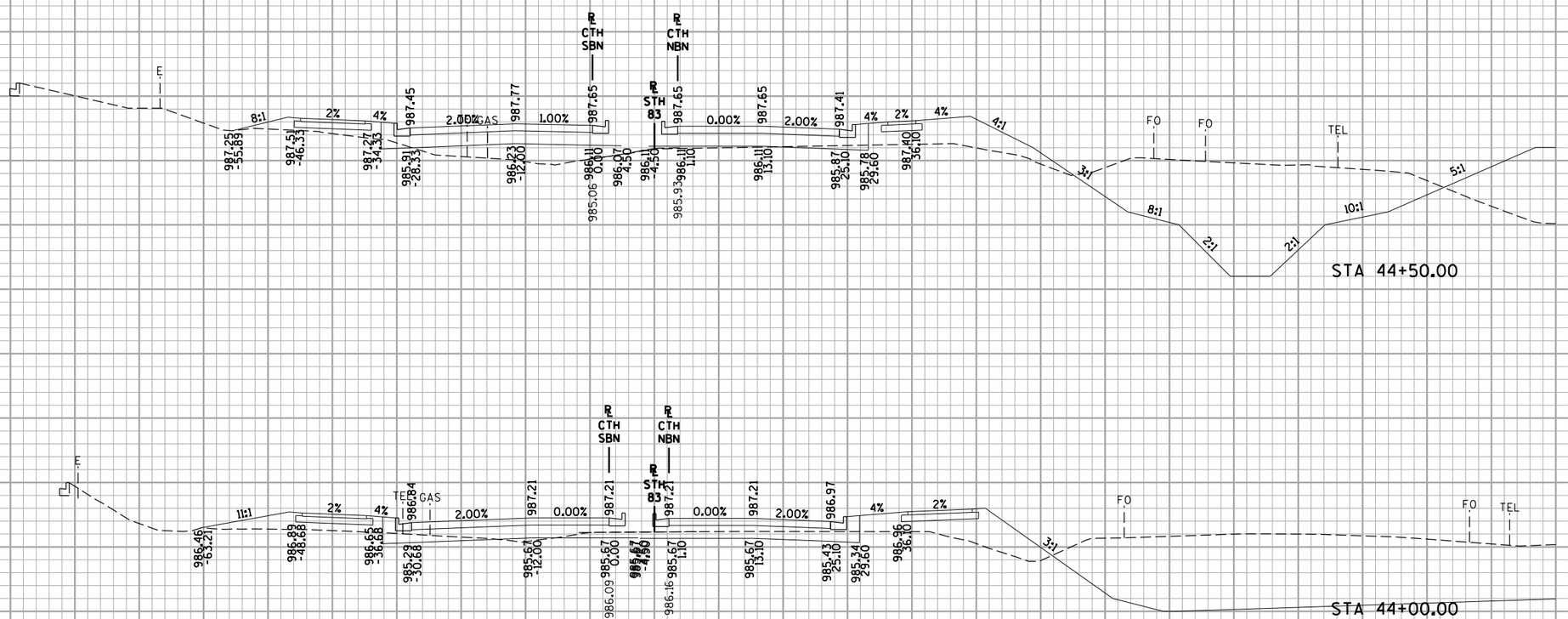
STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



STA 45+00.00

STA 545+00.00



STA 44+50.00

STA 544+50.00

STA 44+00.00

STA 544+00.00

5.0 FT

10.0 FT

9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 919	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090207_xs.dgn

PLOT DATE : 5/21/2013 5:07:01 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl

PLOT NAME :

PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21

NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 546+50.00

STA 46+50.00

STA 546+00.00

STA 46+00.00

STA 545+50.00

STA 45+50.00

5.0 FT

10.0 FT

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 920	E

NOTES:

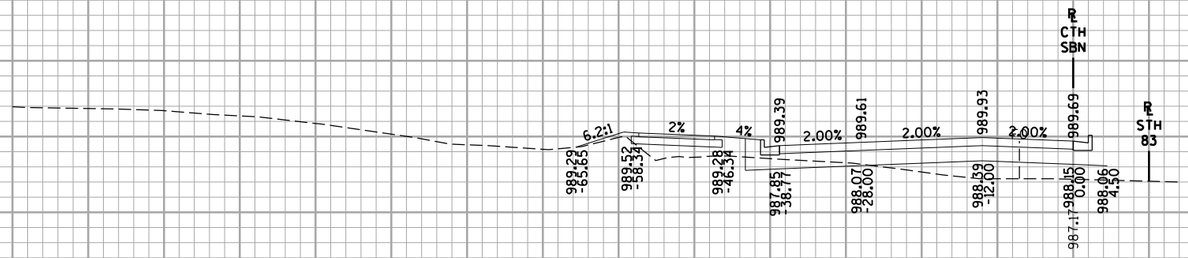
1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

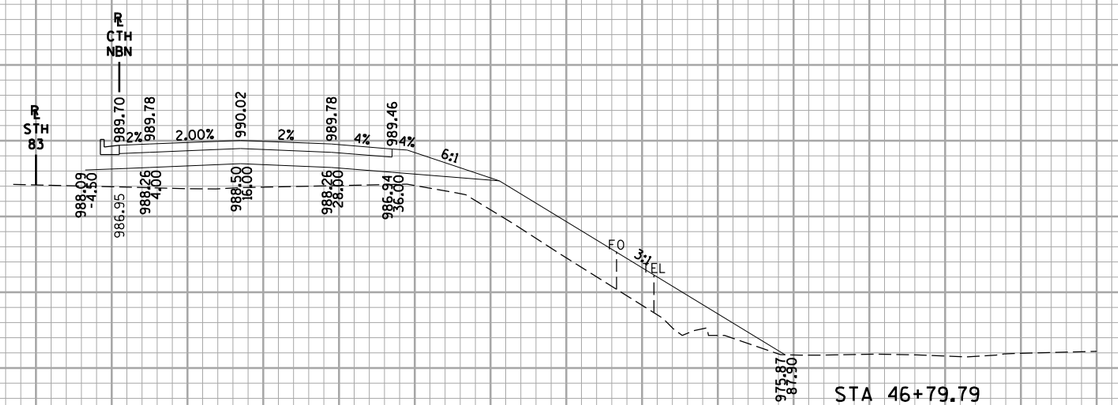
LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 546+79.00

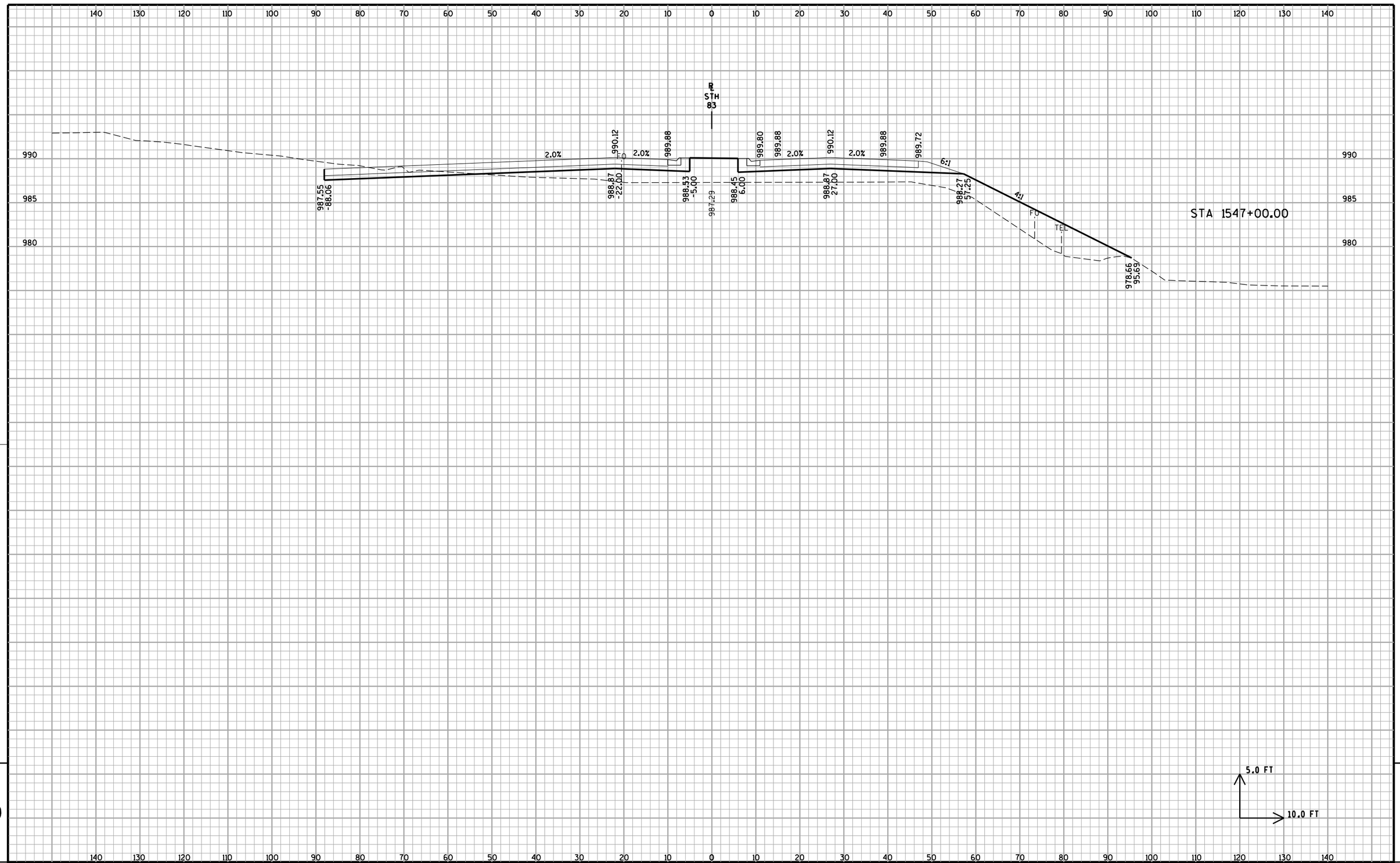




PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090207_xs.dgn PLOT DATE : 5/21/2013 5:07:03 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21



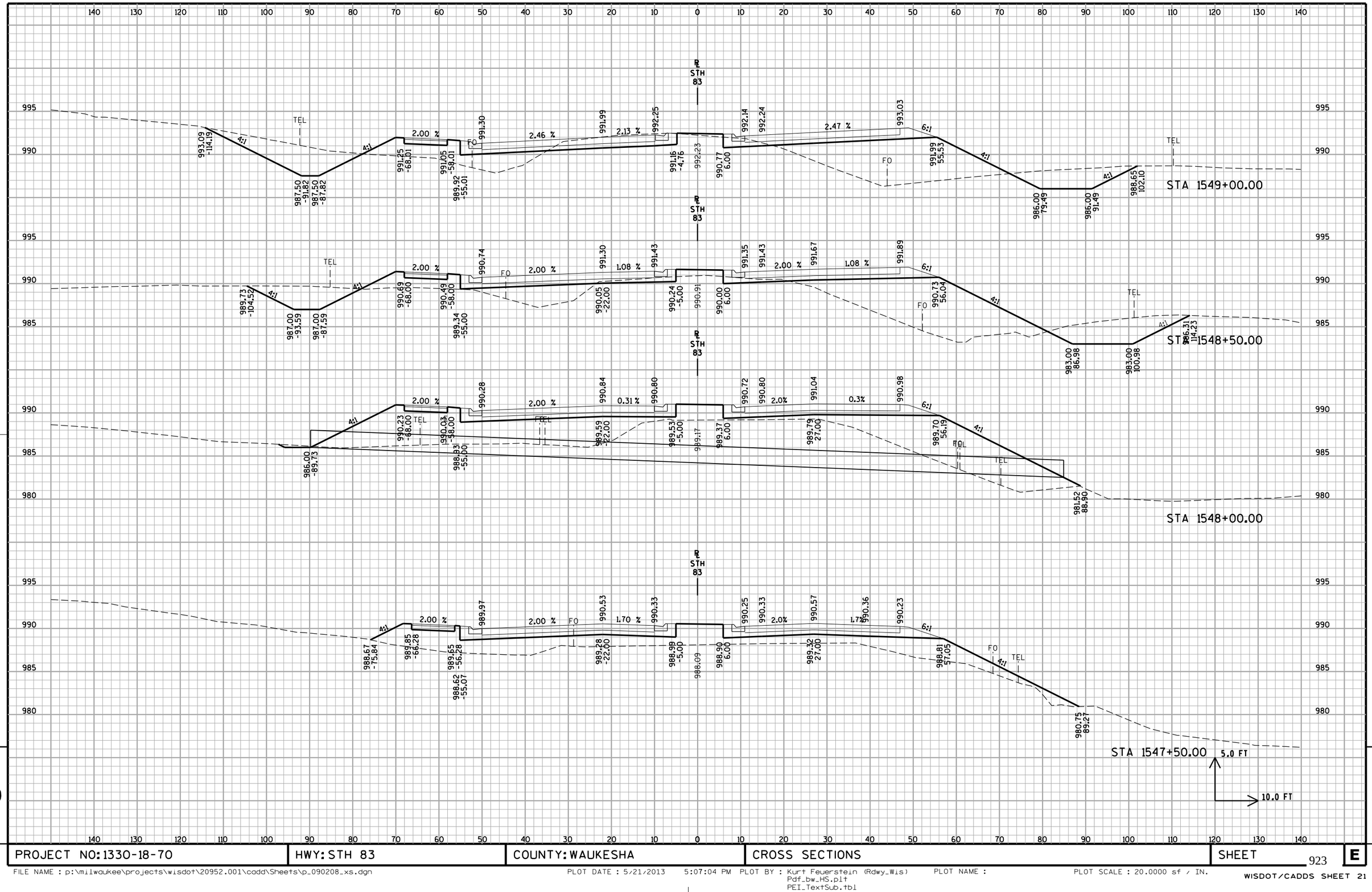
9

PROJECT NO:1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 922	E

9

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090208_xs.dgn PLOT DATE : 5/21/2013 5:07:04 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 sf / IN.

WISDOT/CADDS SHEET 21



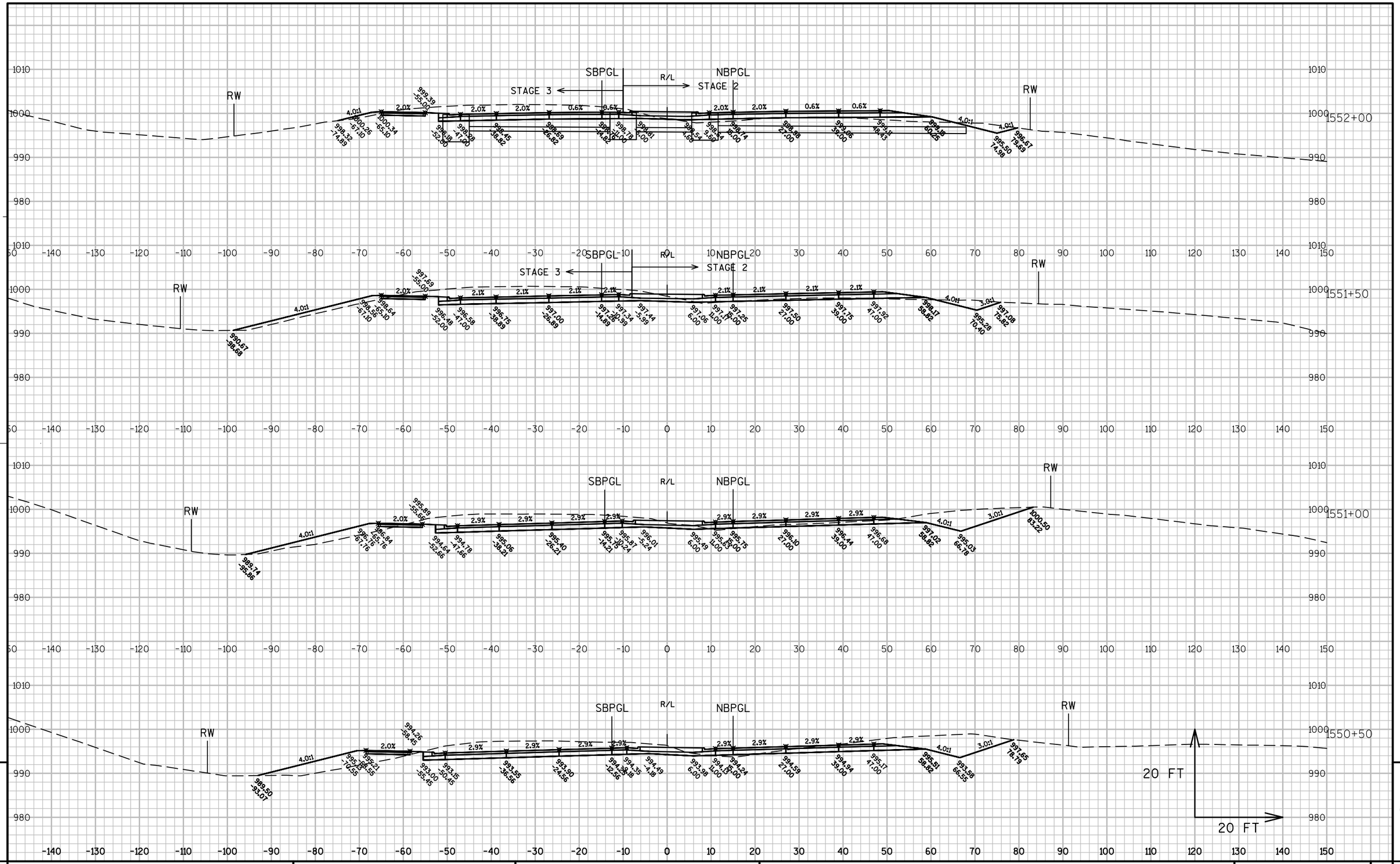
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 923	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090208_xs.dgn PLOT DATE : 5/21/2013 5:07:04 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 sf / IN.

WISDOT/CADDS SHEET 21

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 924	E

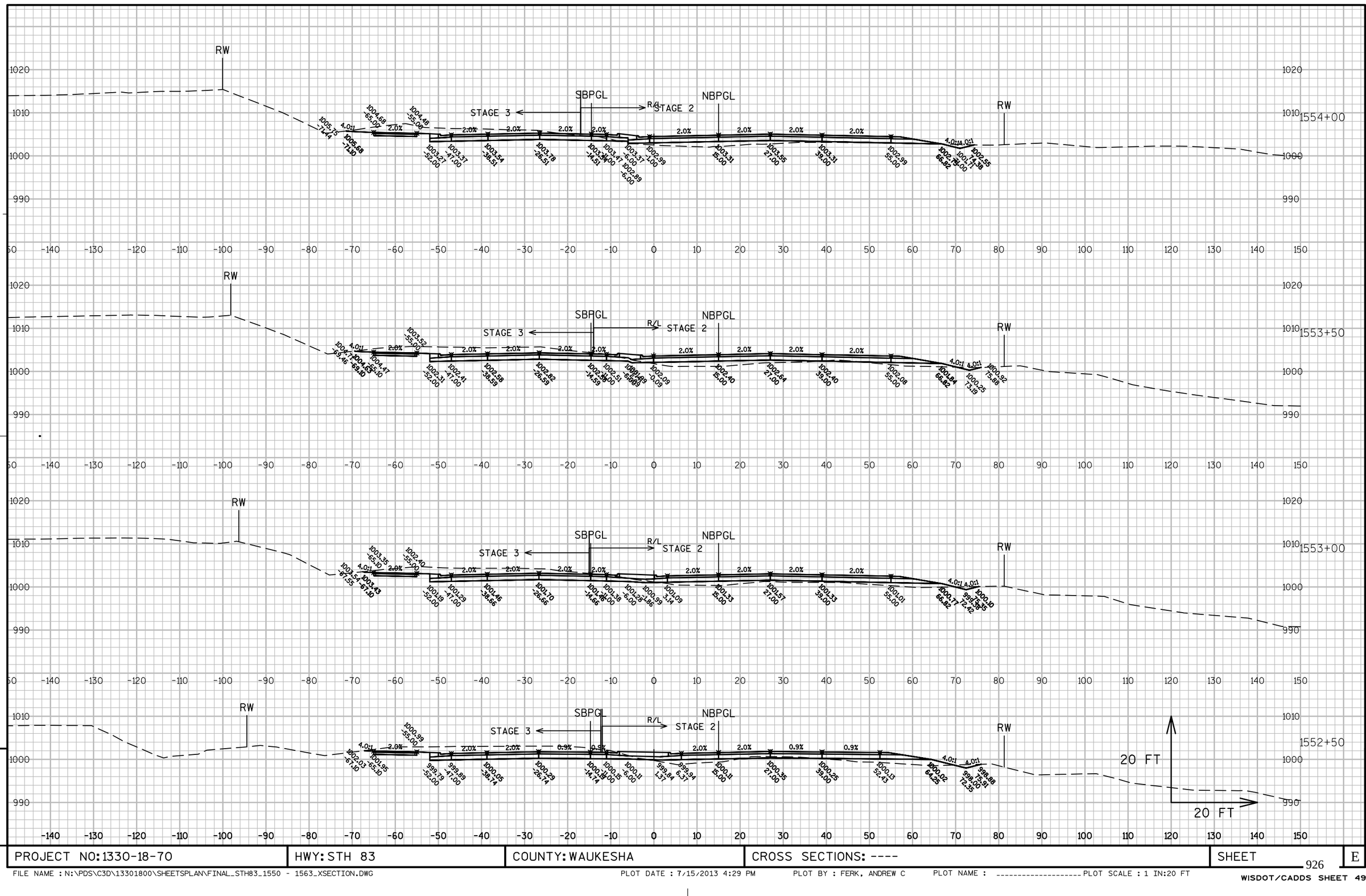
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090208_xs.dgn
PLOT DATE : 5/21/2013 5:07:05 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 sf / IN.
WISDOT/CADDS SHEET 21



PROJECT NO:1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 925 E

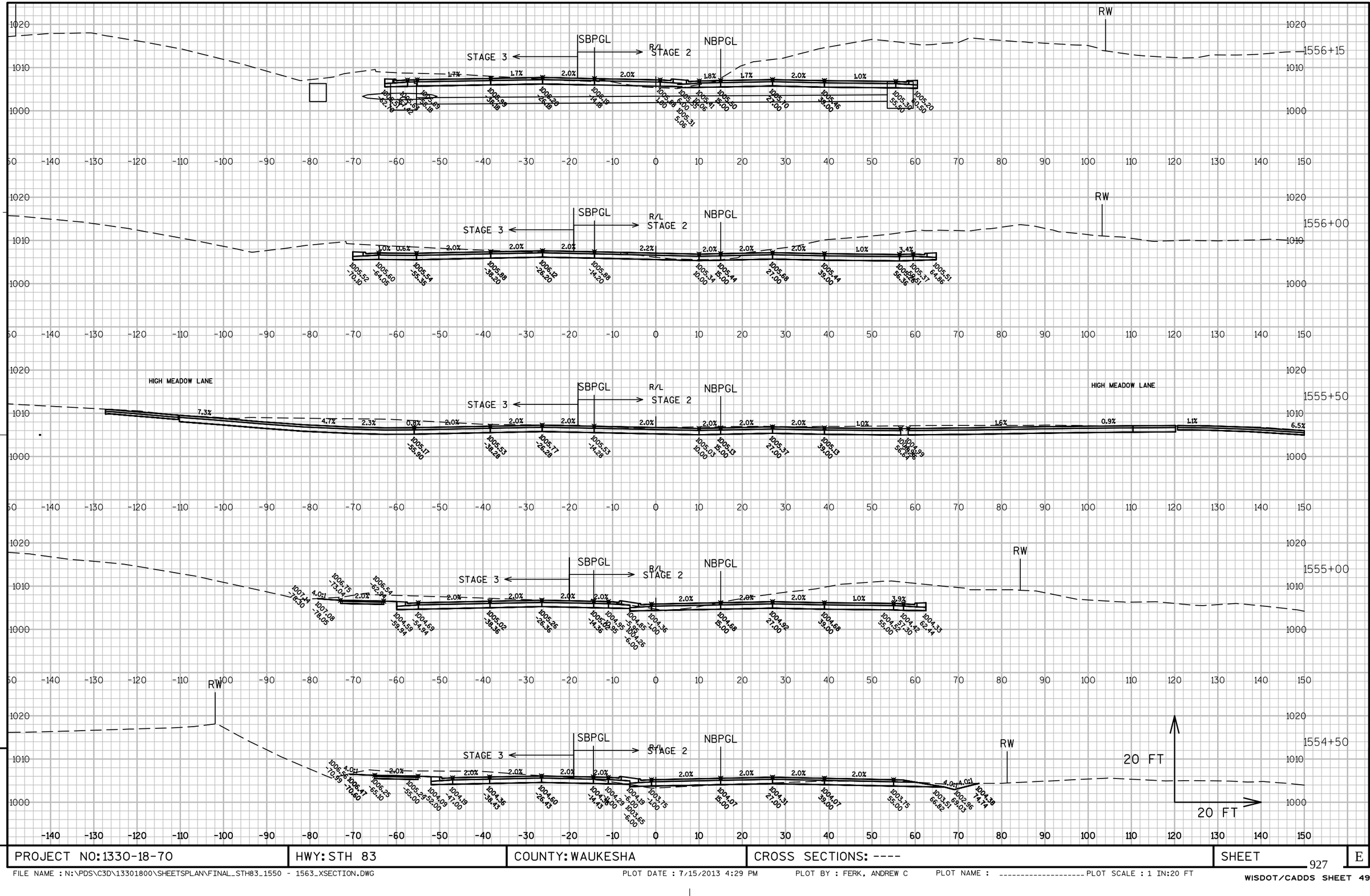
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1550 - 1563_XSECTION.DWG PLOT DATE : 7/15/2013 4:28 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1550 - 1563_XSECTION.DWG PLOT DATE : 7/15/2013 4:29 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



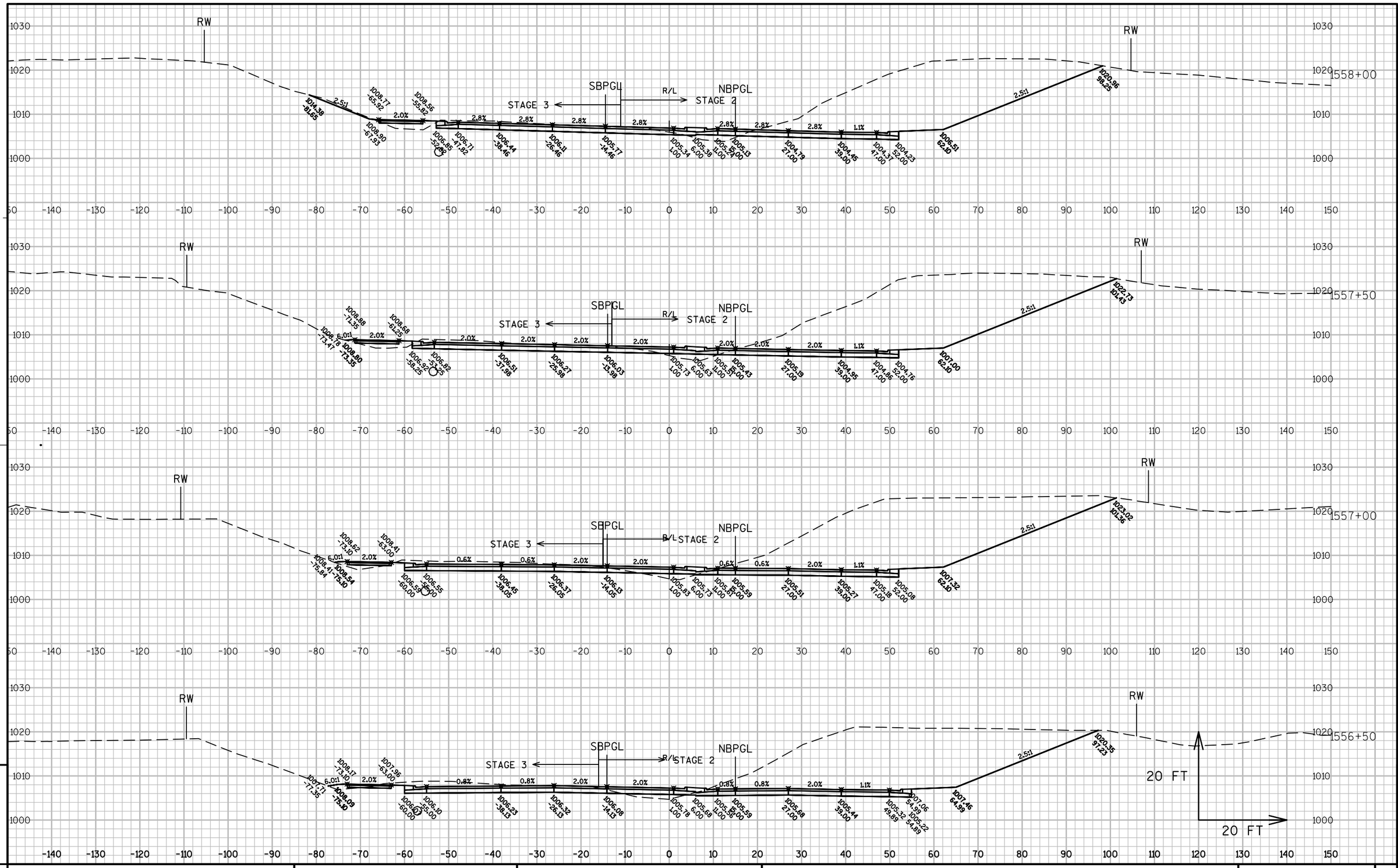
9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1550 - 1563_XSECTION.DWG PLOT DATE : 7/15/2013 4:29 PM PLOT BY : FERK, ANDREW C PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

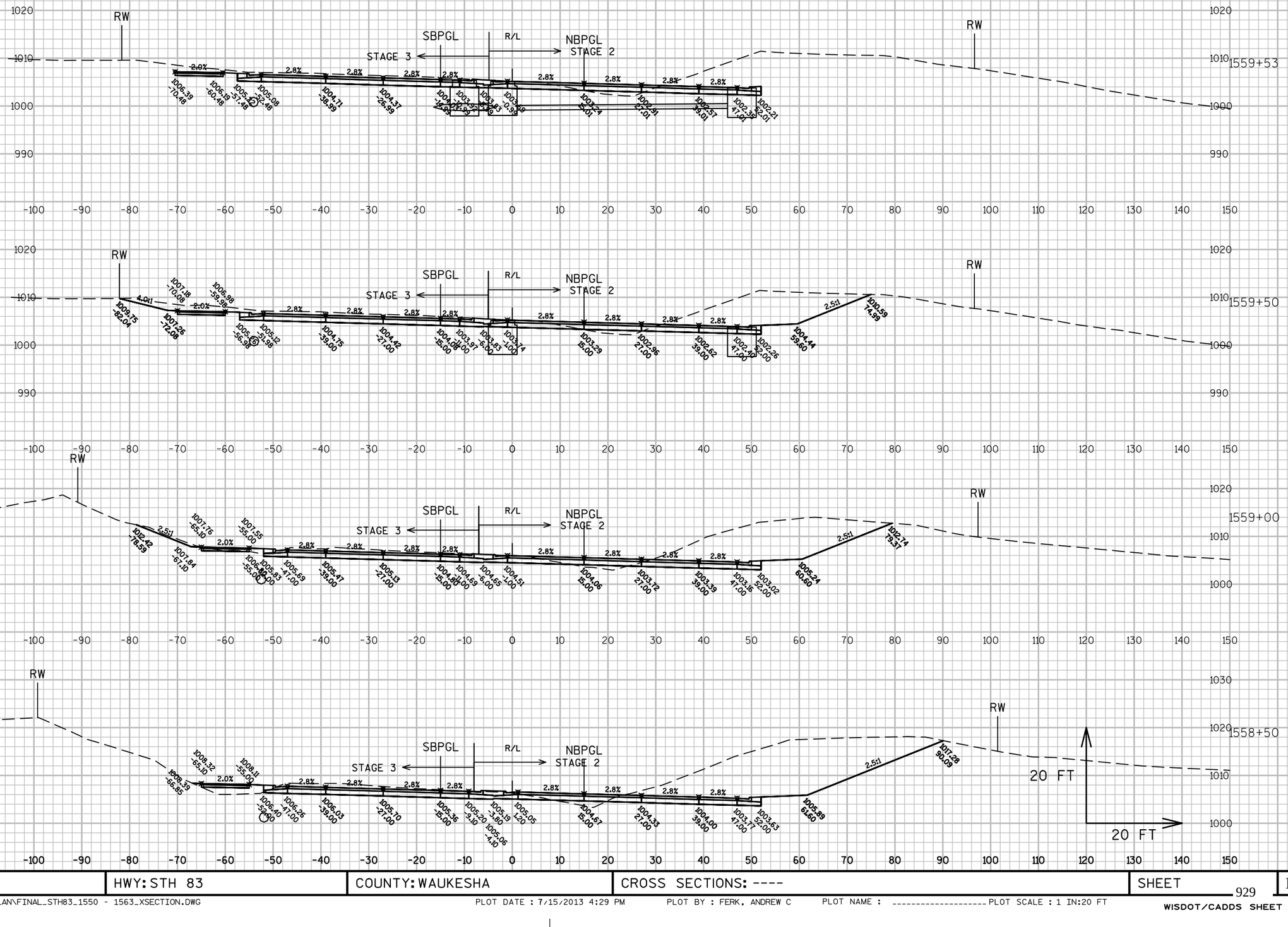


9

9

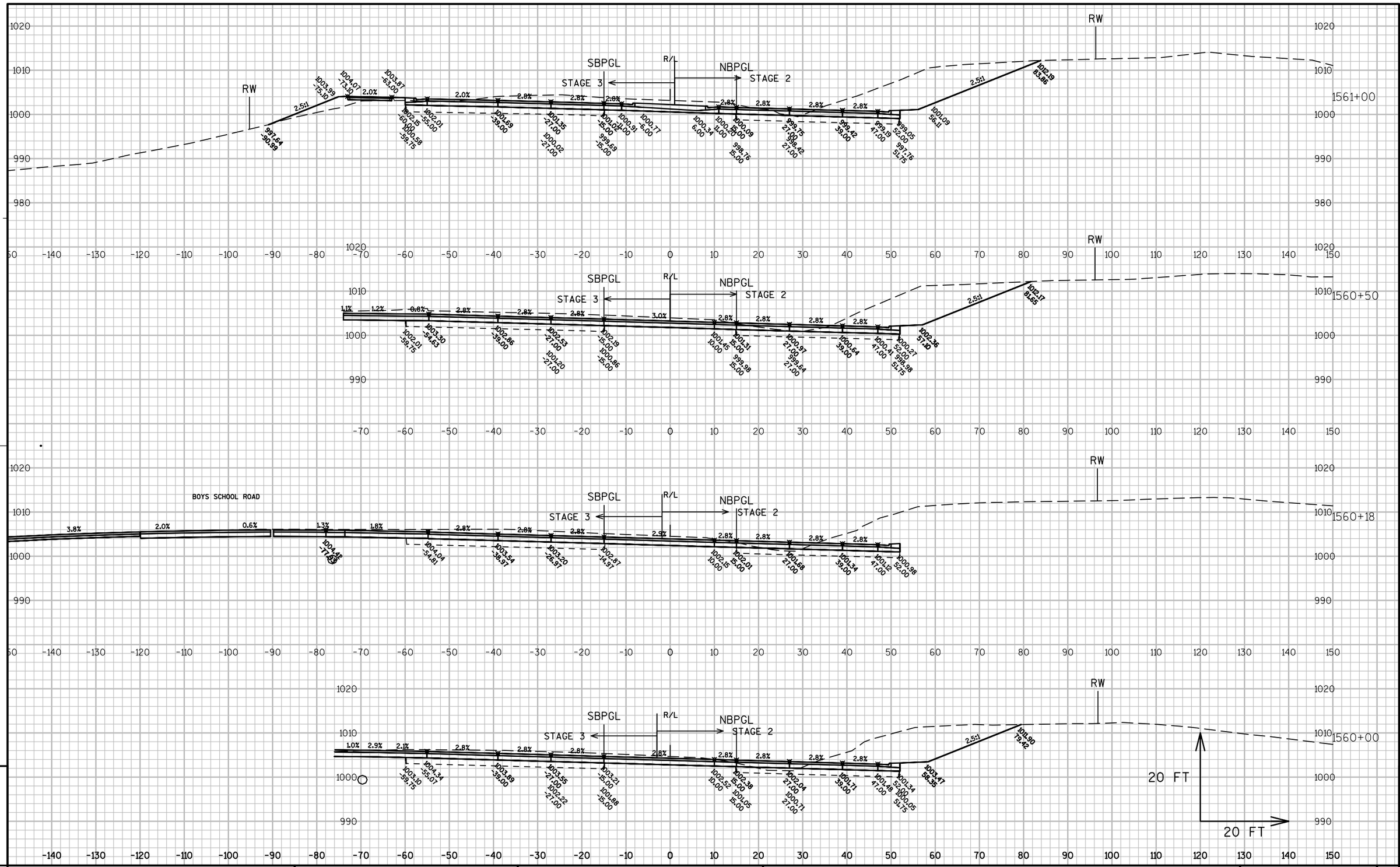
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1550 - 1563_XSECTION.DWG PLOT DATE : 7/15/2013 4:29 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1550 - 1563_XSECTION.DWG PLOT DATE : 7/15/2013 4:29 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



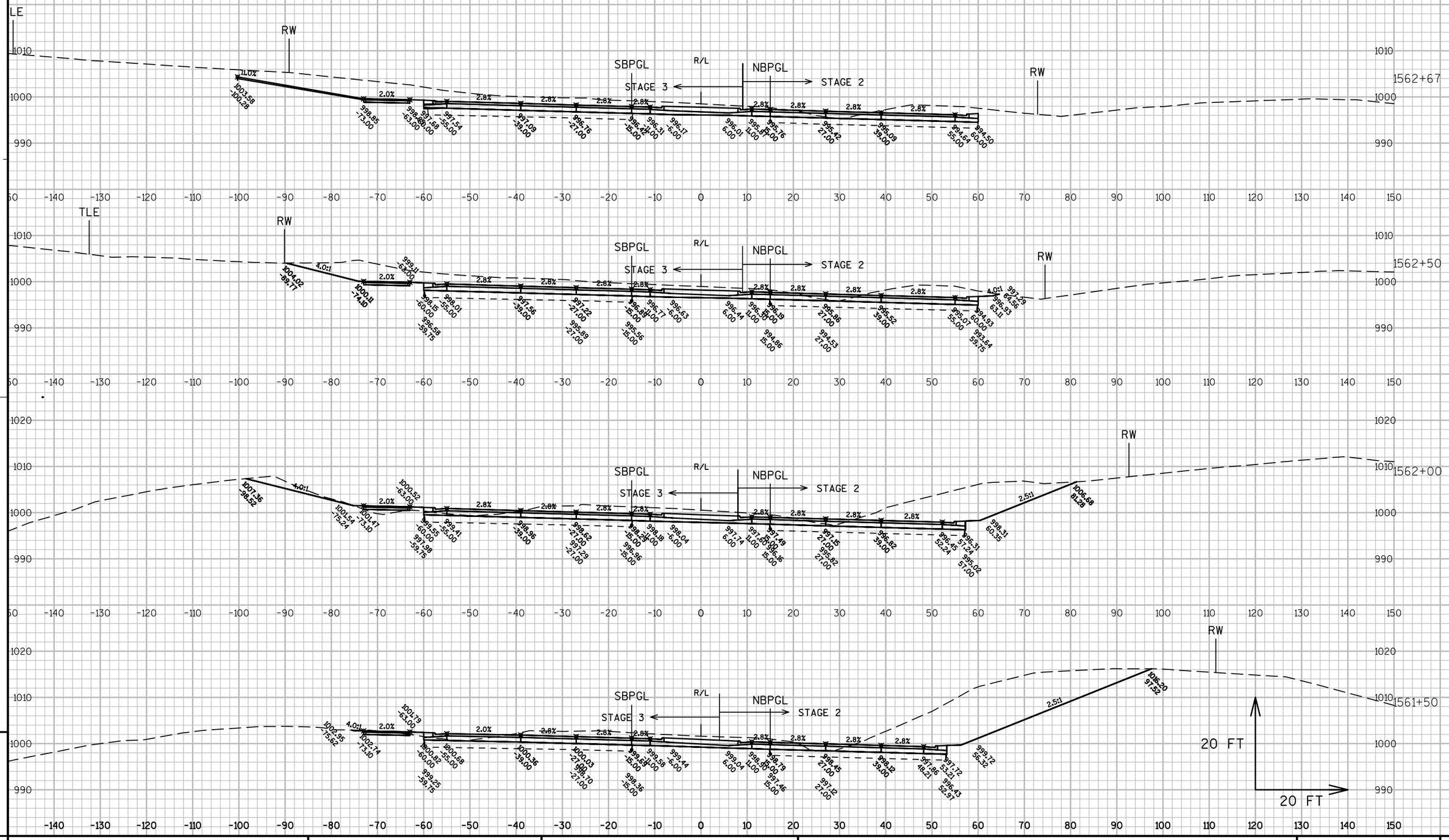
9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET 930	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1550 - 1563_XSECTION.DWG PLOT DATE : 7/15/2013 4:29 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



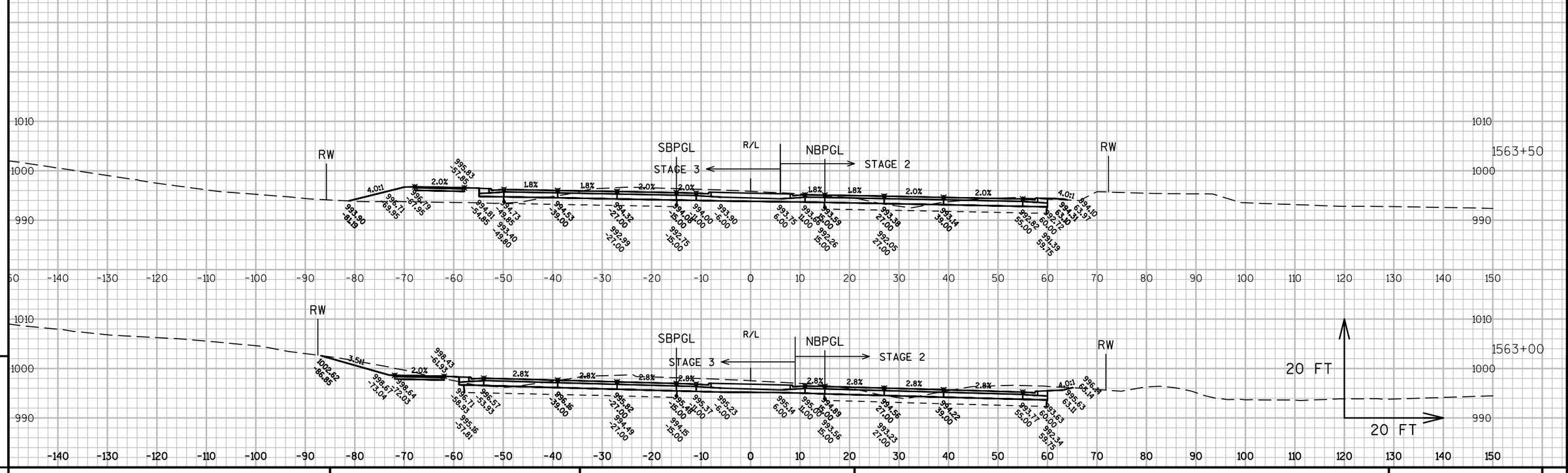
9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1550 - 1563_XSECTION.DWG PLOT DATE : 7/15/2013 4:30 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



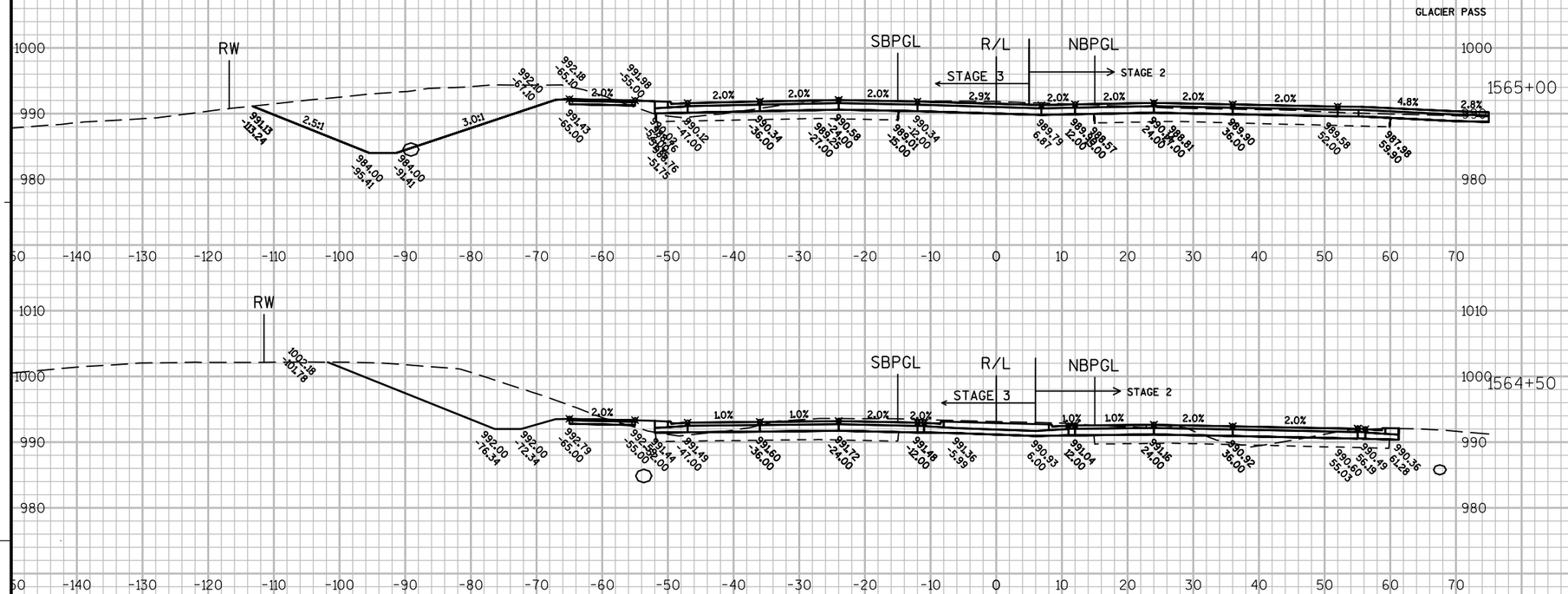
9

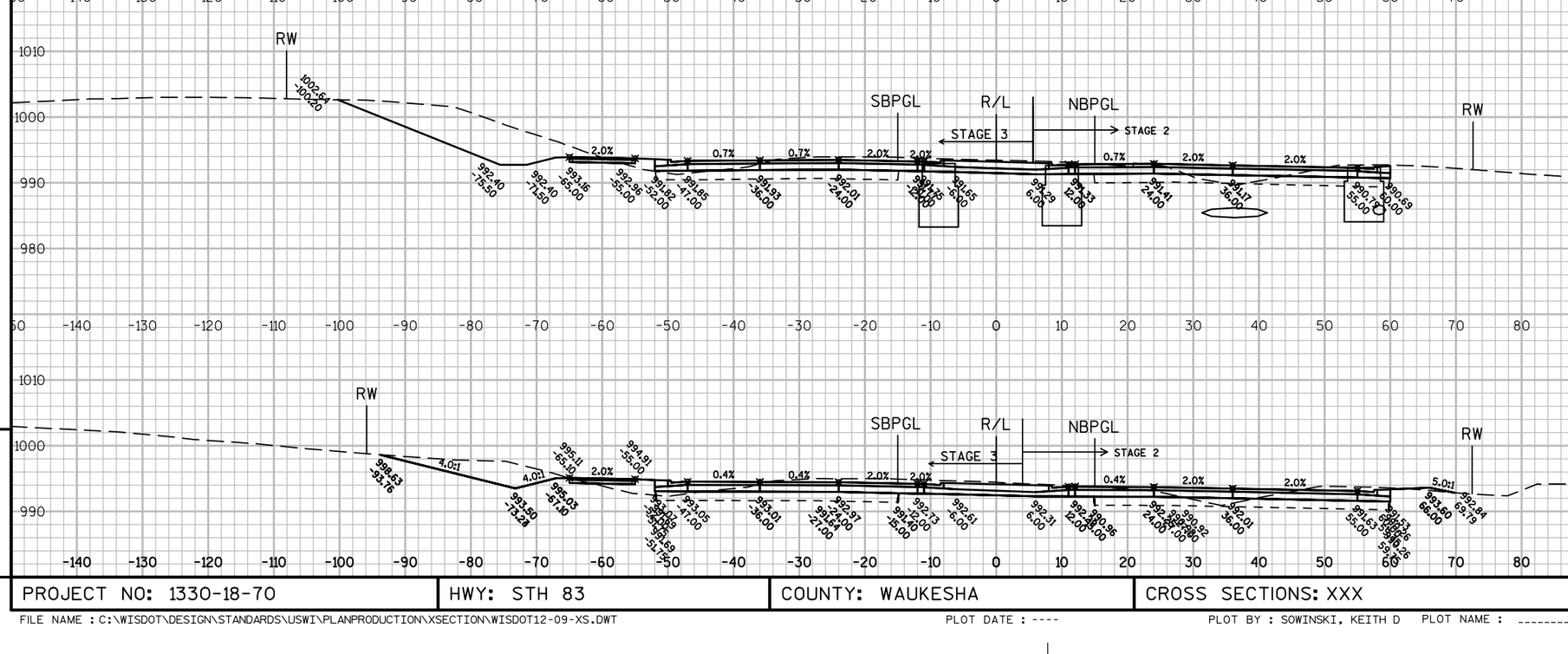
9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: ----	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_STH83_1550 - 1563_XSECTION.DWG PLOT DATE : 7/15/2013 4:30 PM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

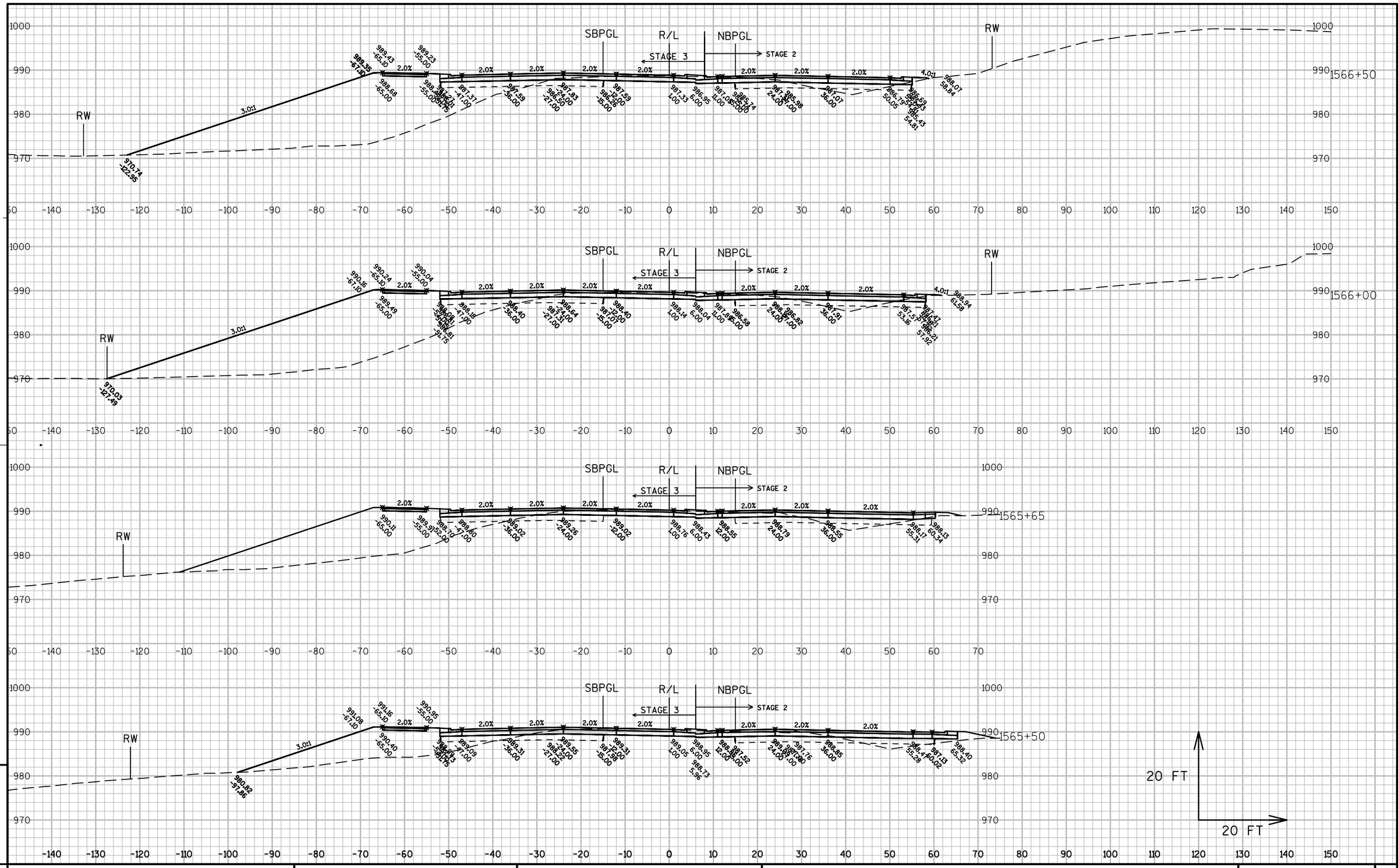
GLACIER PASS





PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: XXX	SHEET 933	E

FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

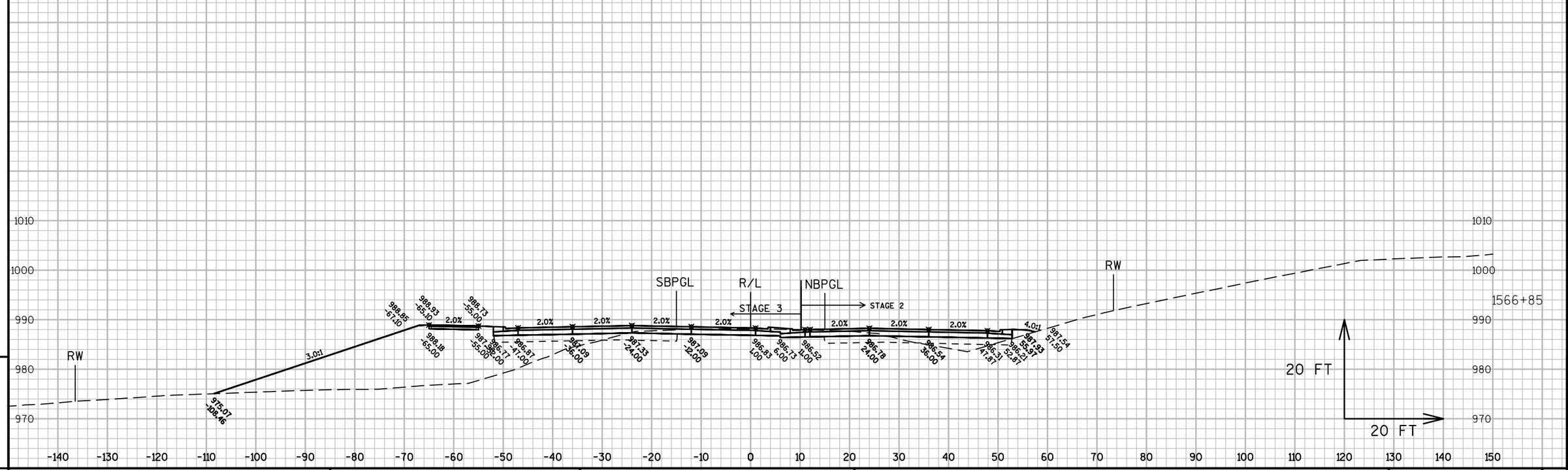


9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: XXX	SHEET	E

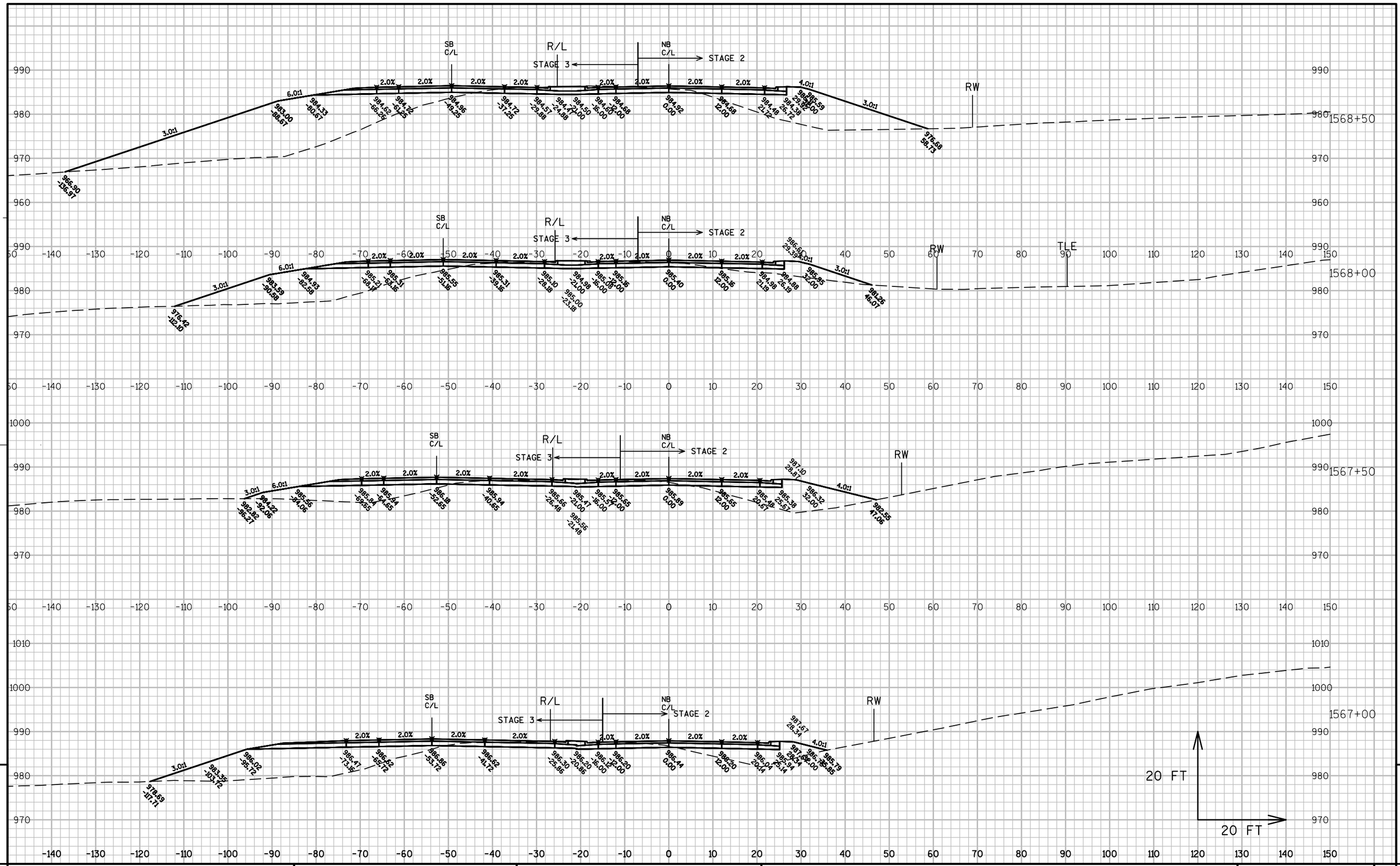
FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: XXX	SHEET 935	E

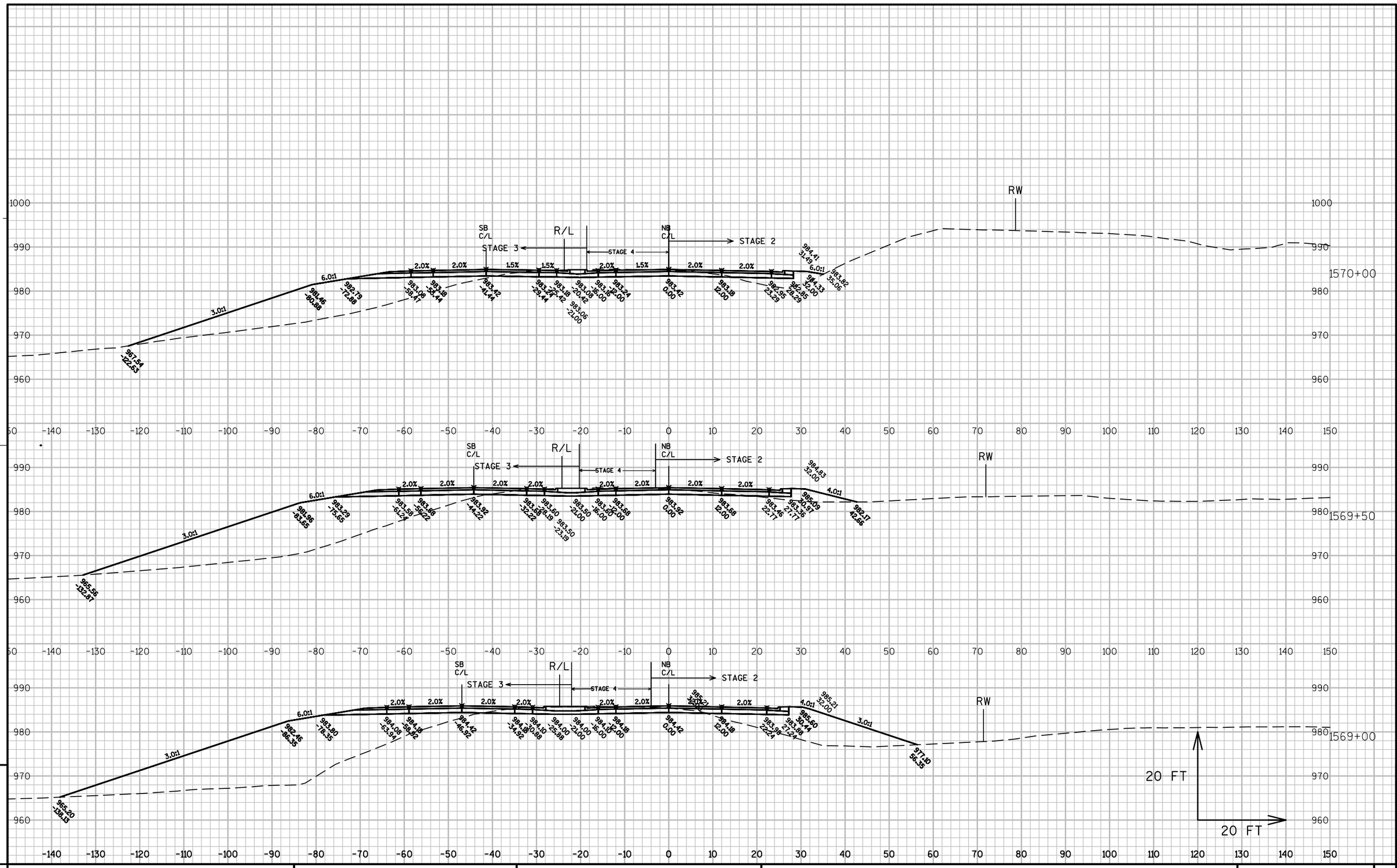
FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



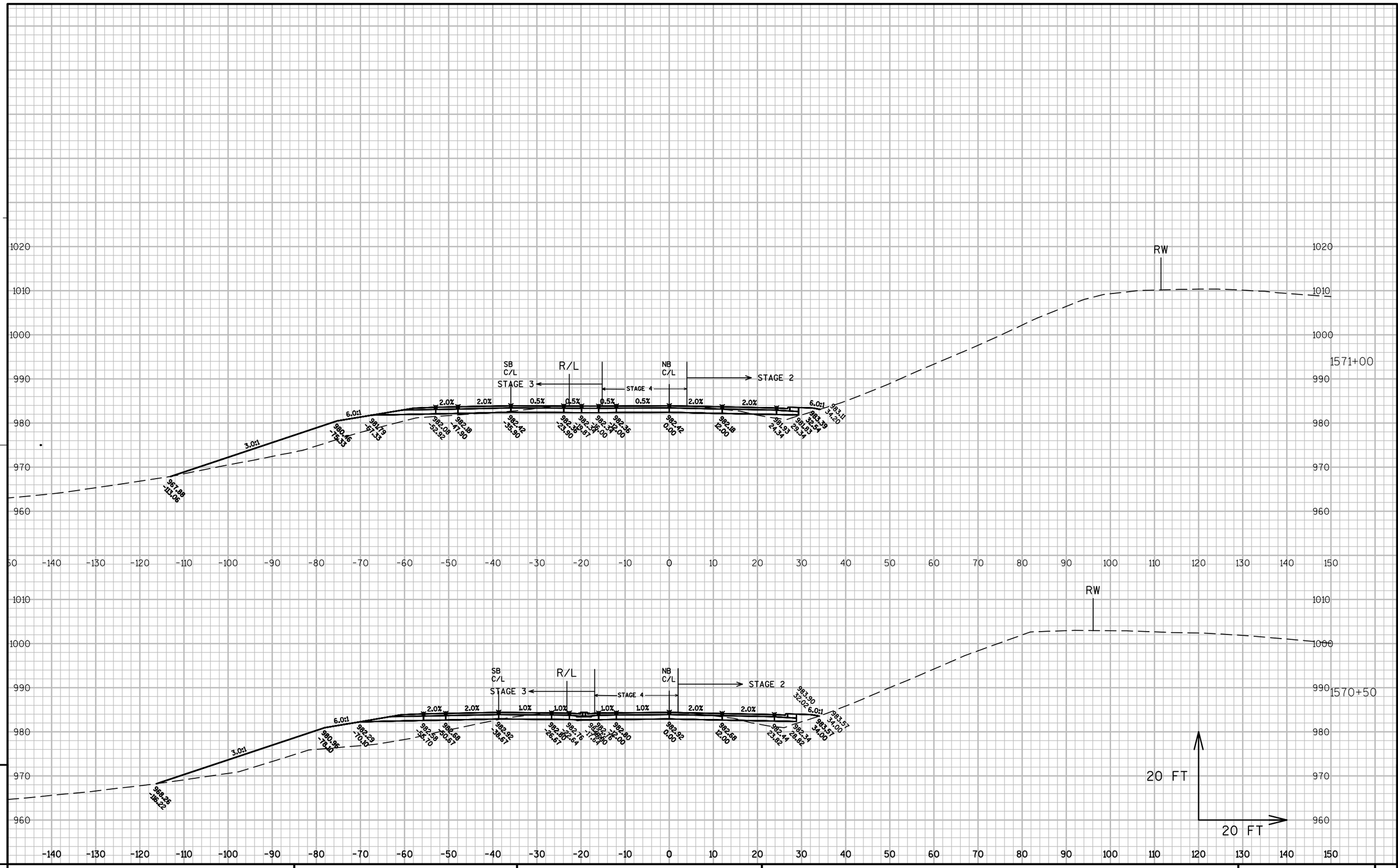
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 936	E

FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 937 E

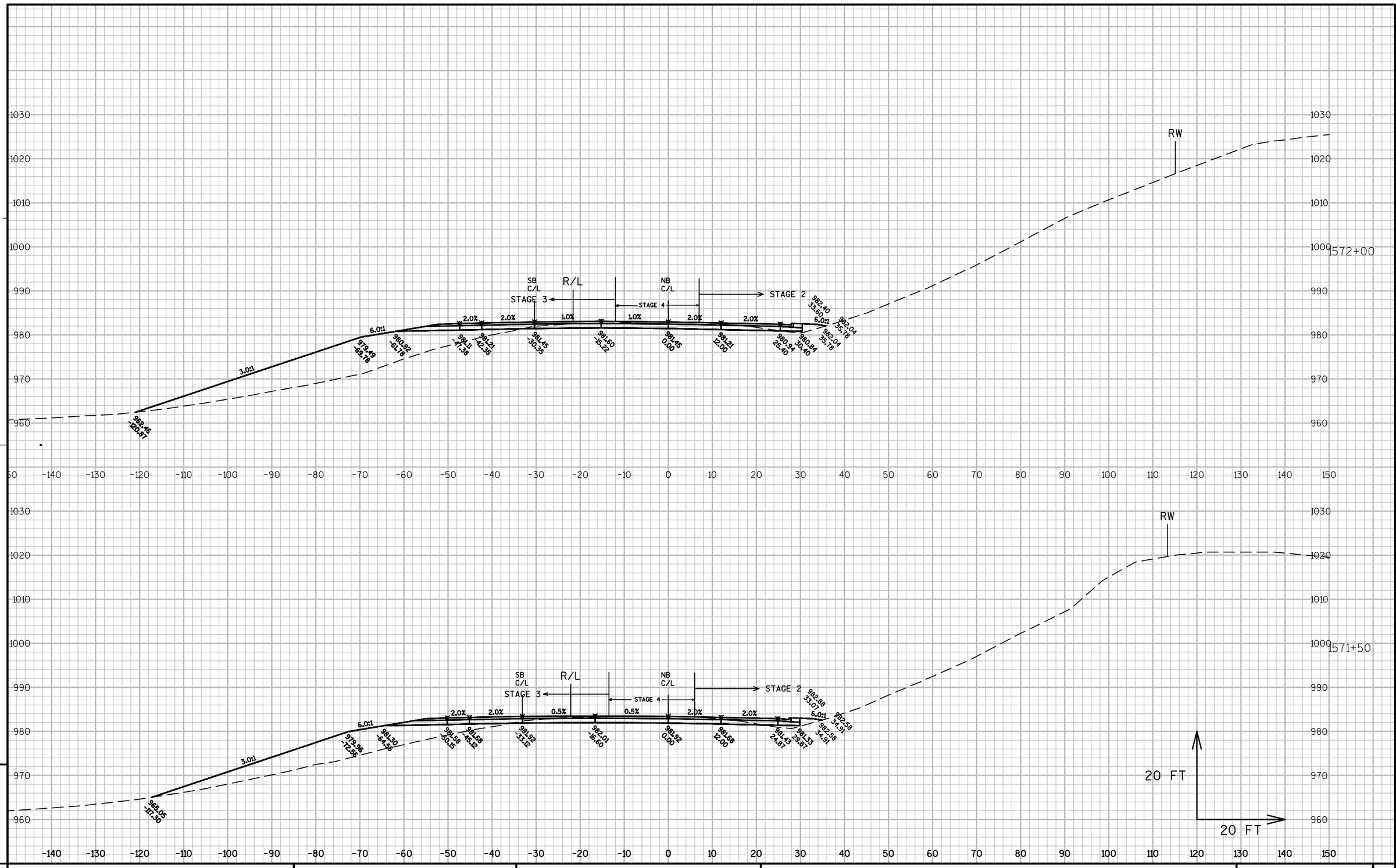
FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 938	E

FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

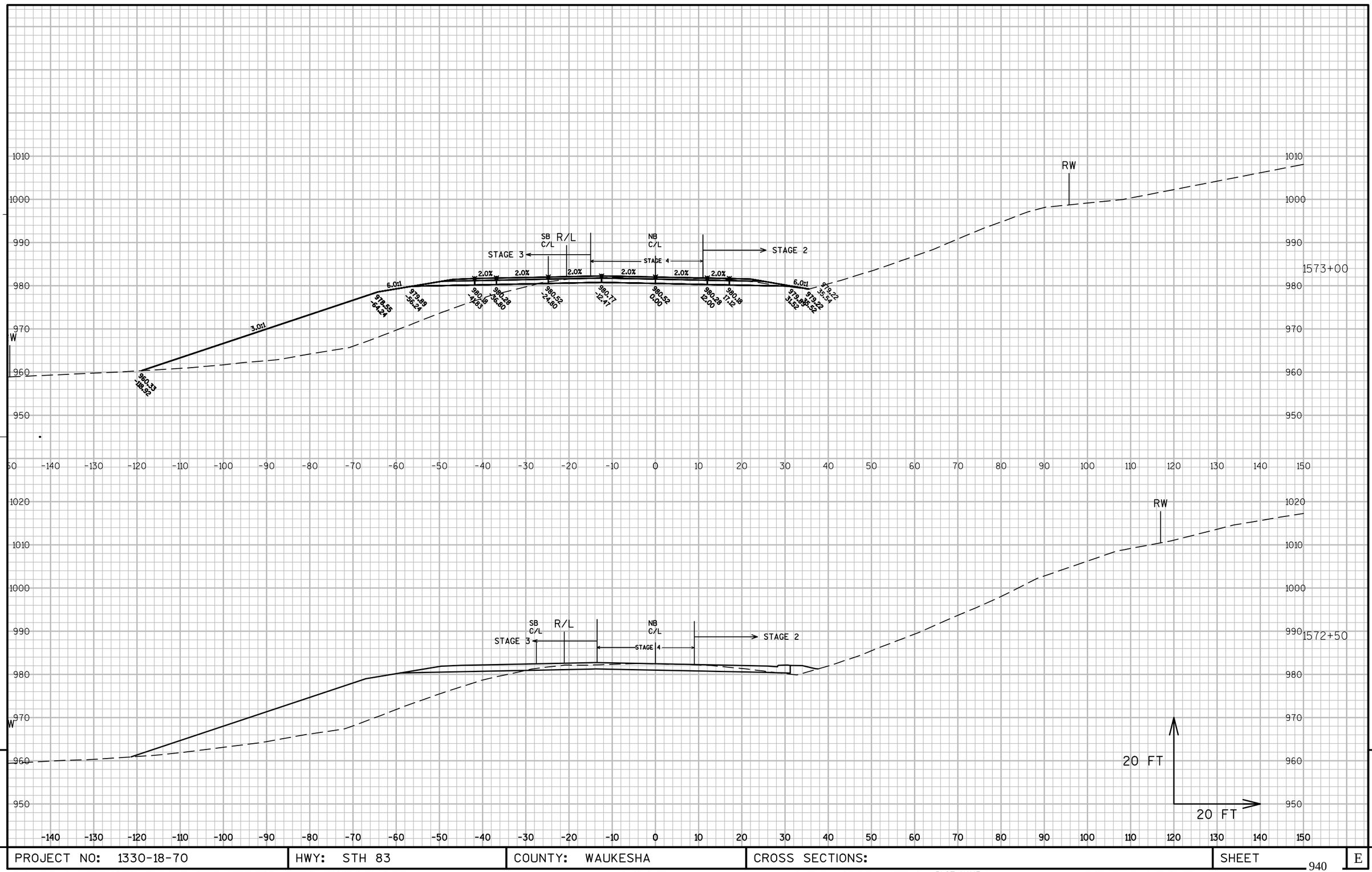
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 939 E

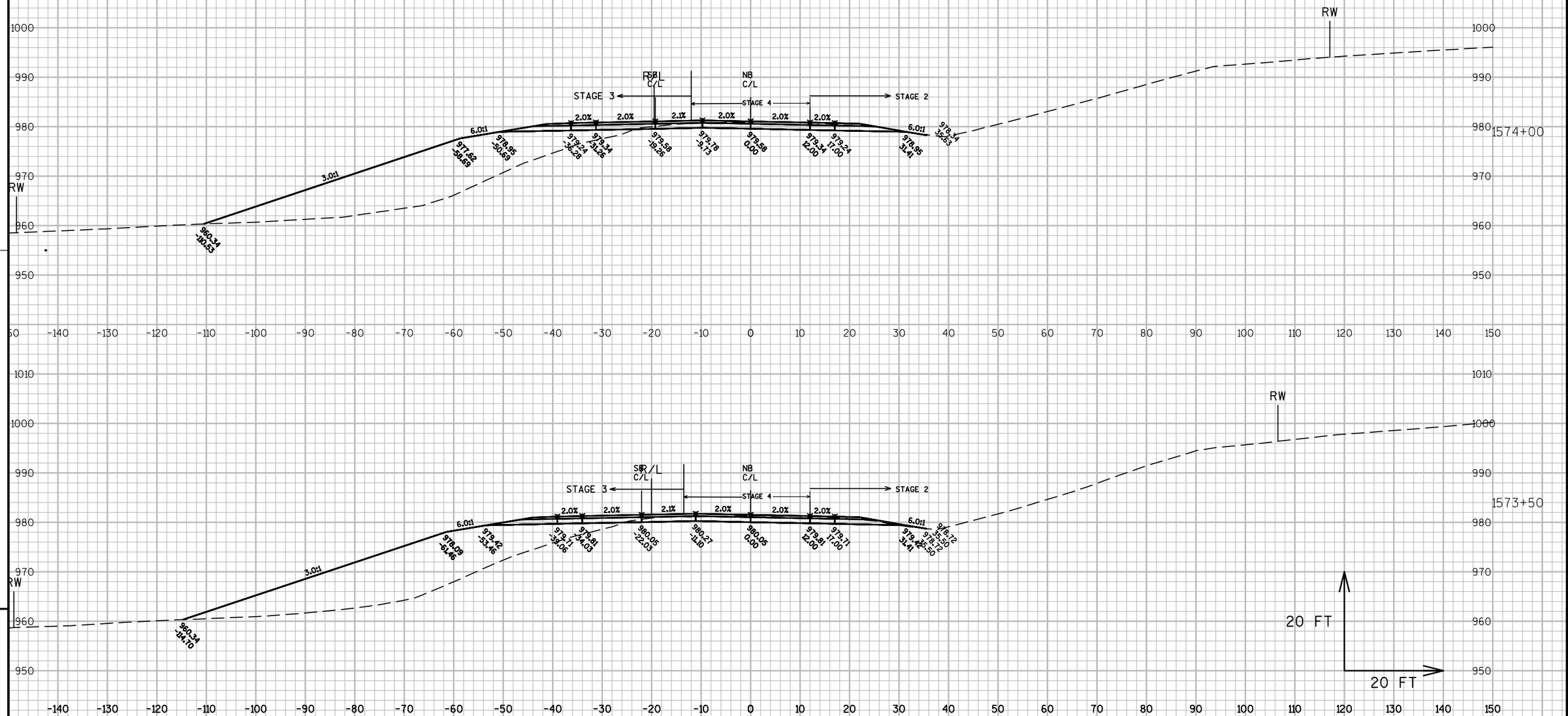
FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 940	E

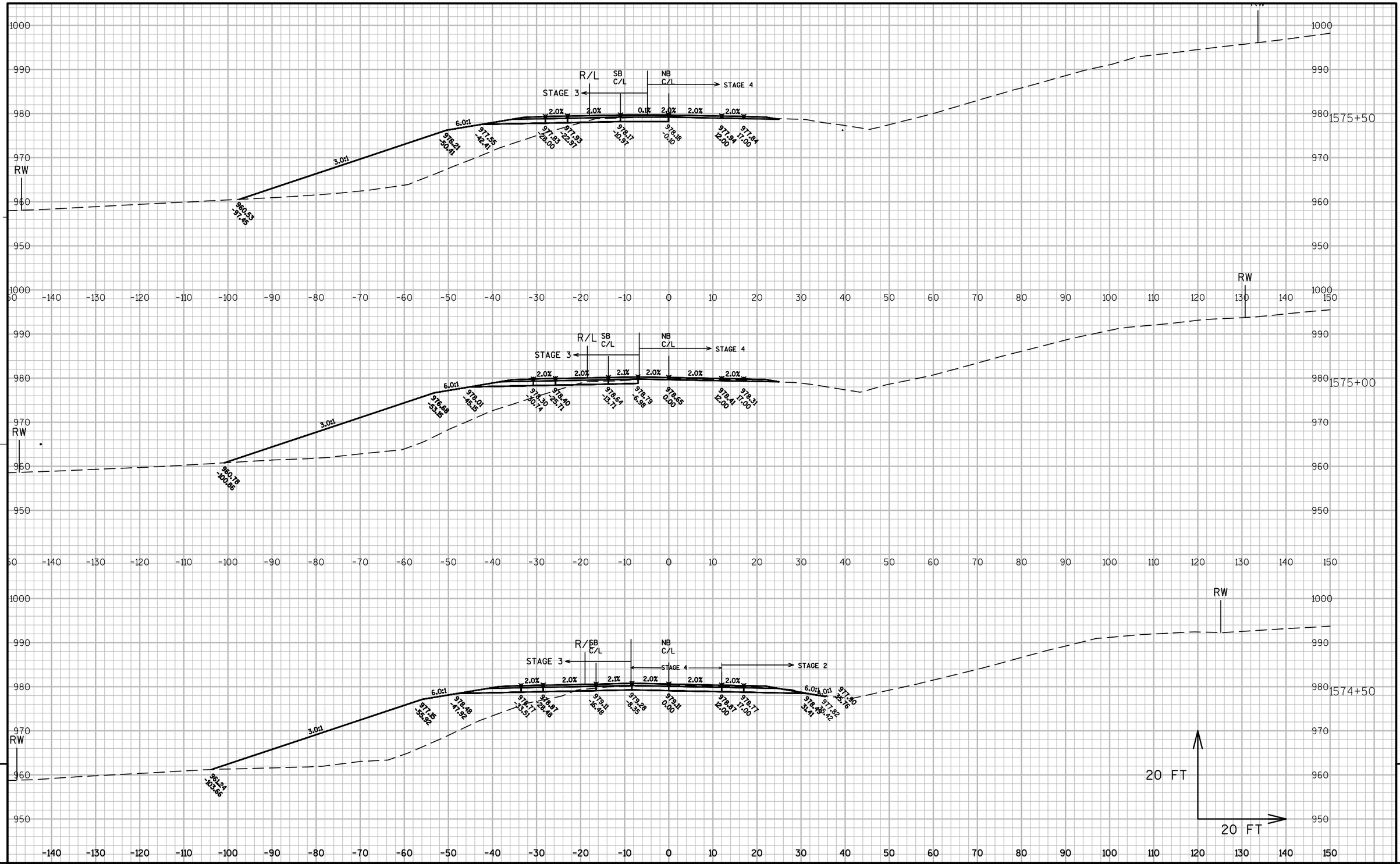
FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 941	E

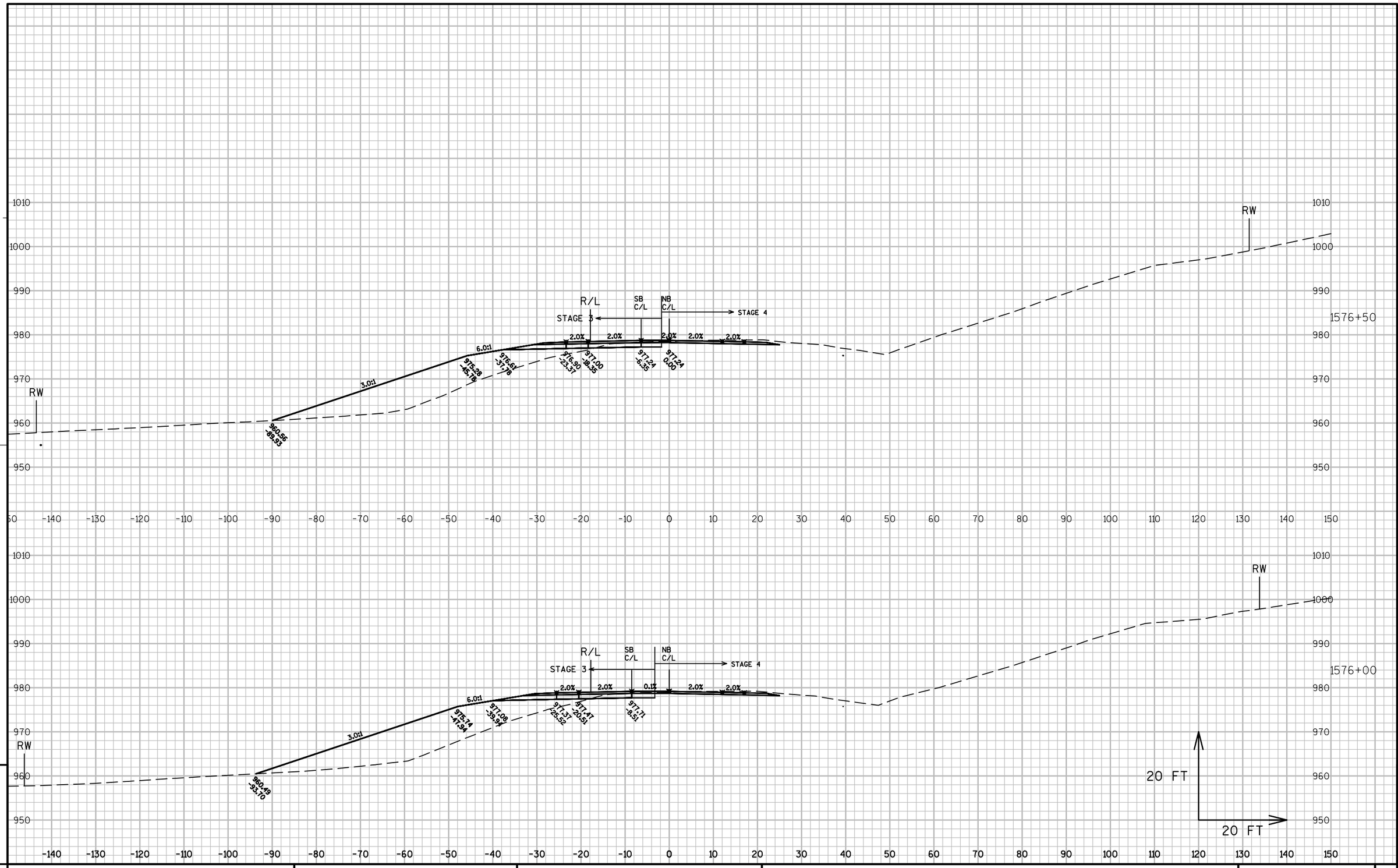
FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



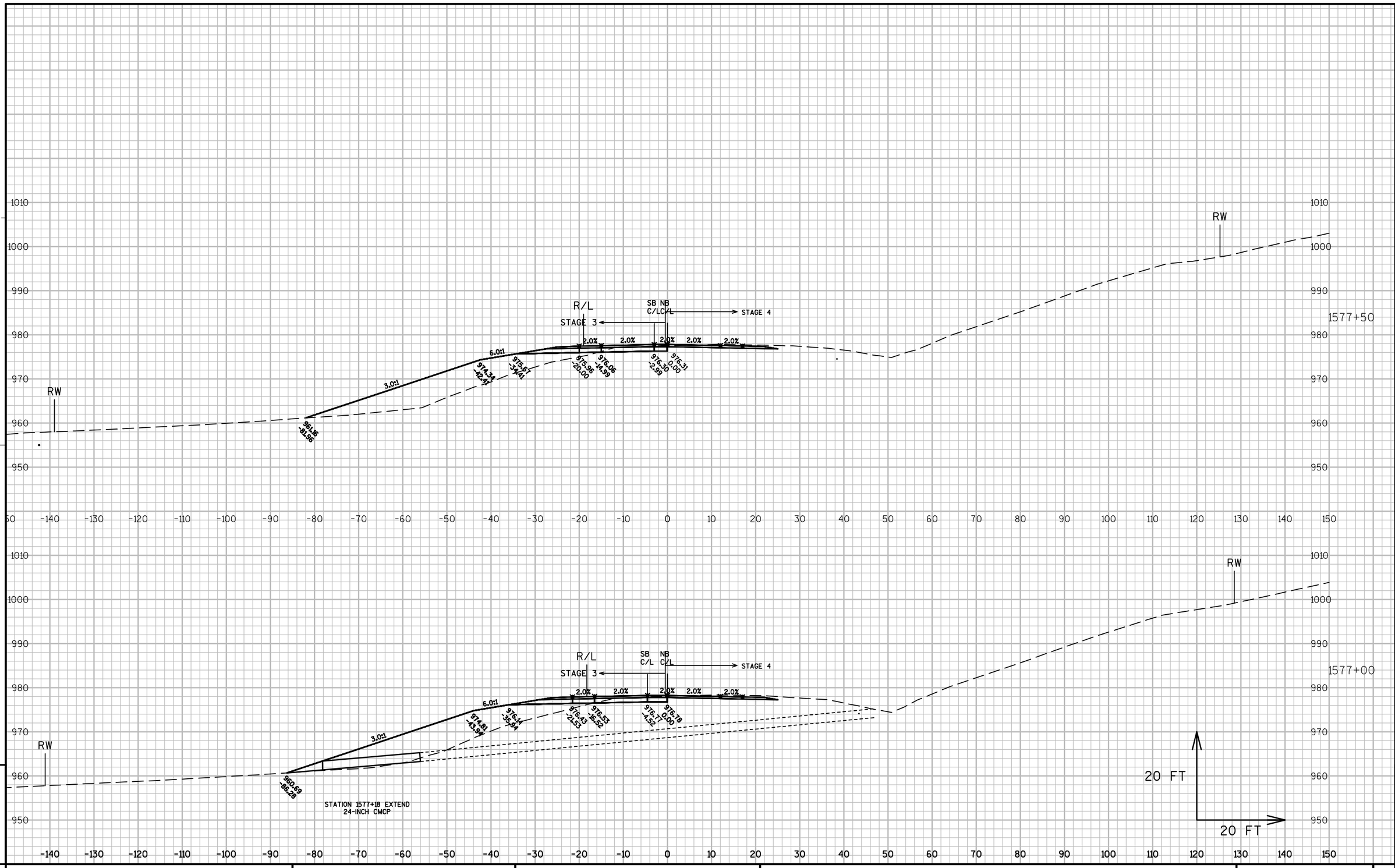
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 942	E

FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



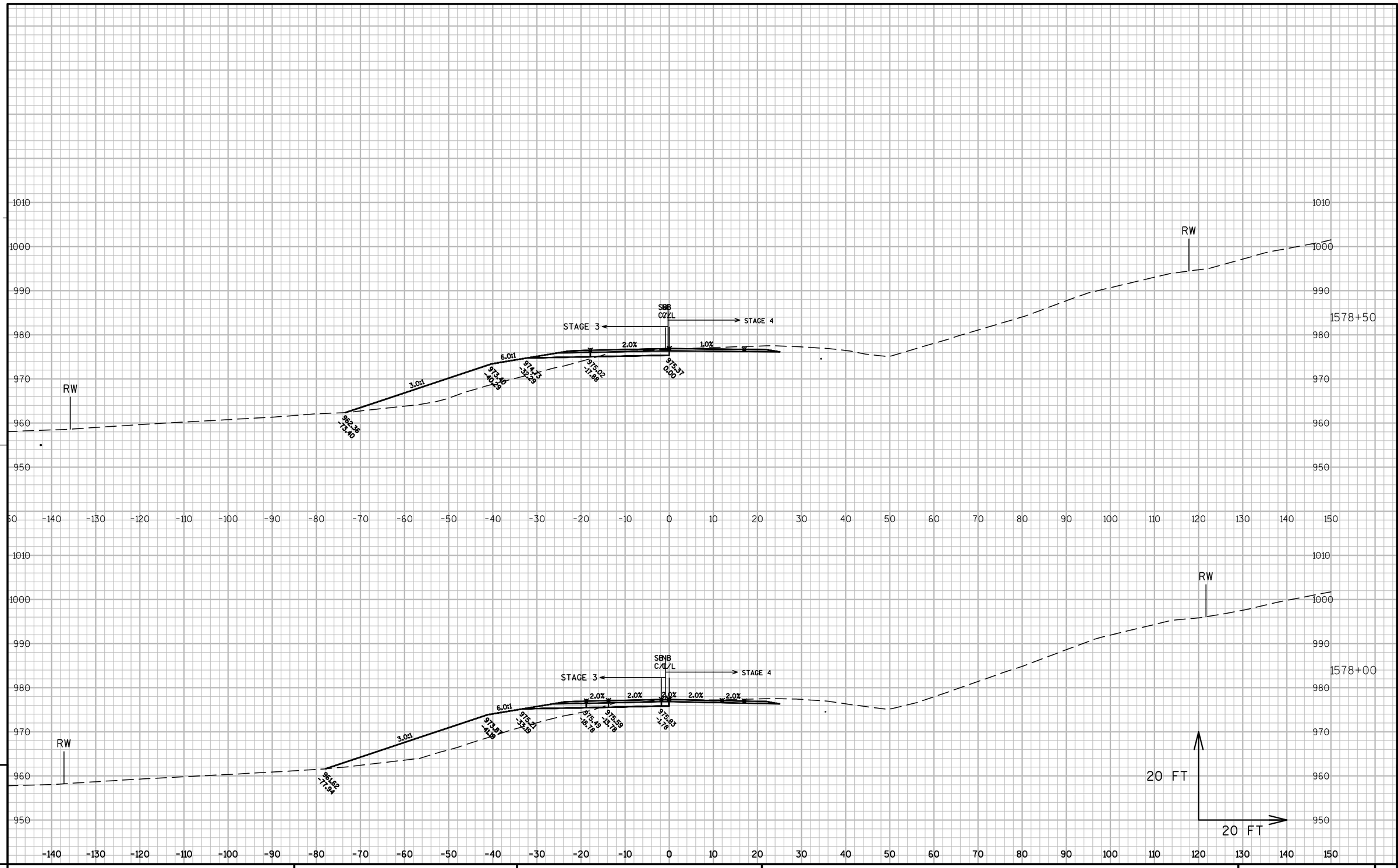
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 943	E

FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT



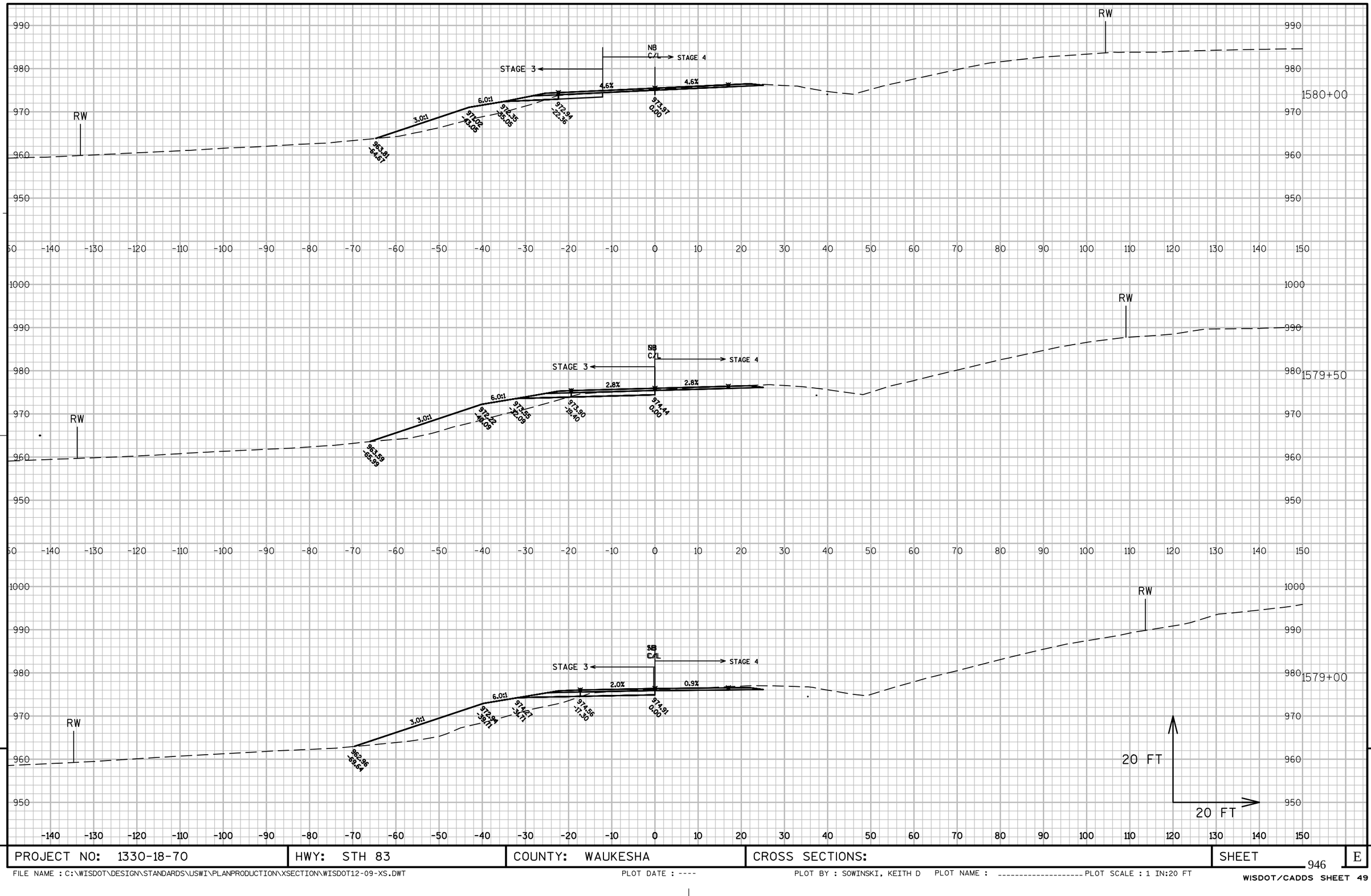
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 944	E

FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT

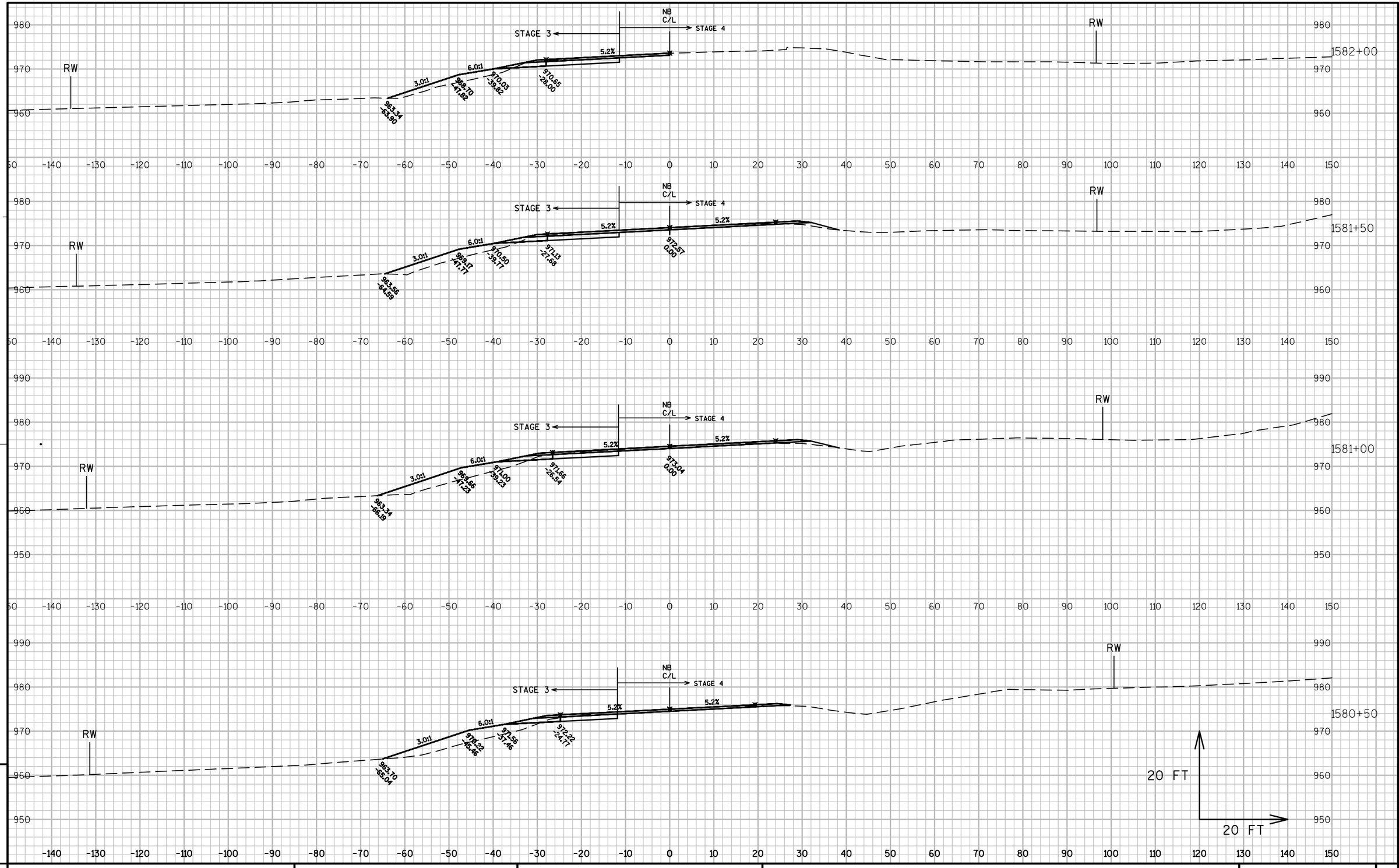


PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 945	E

FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



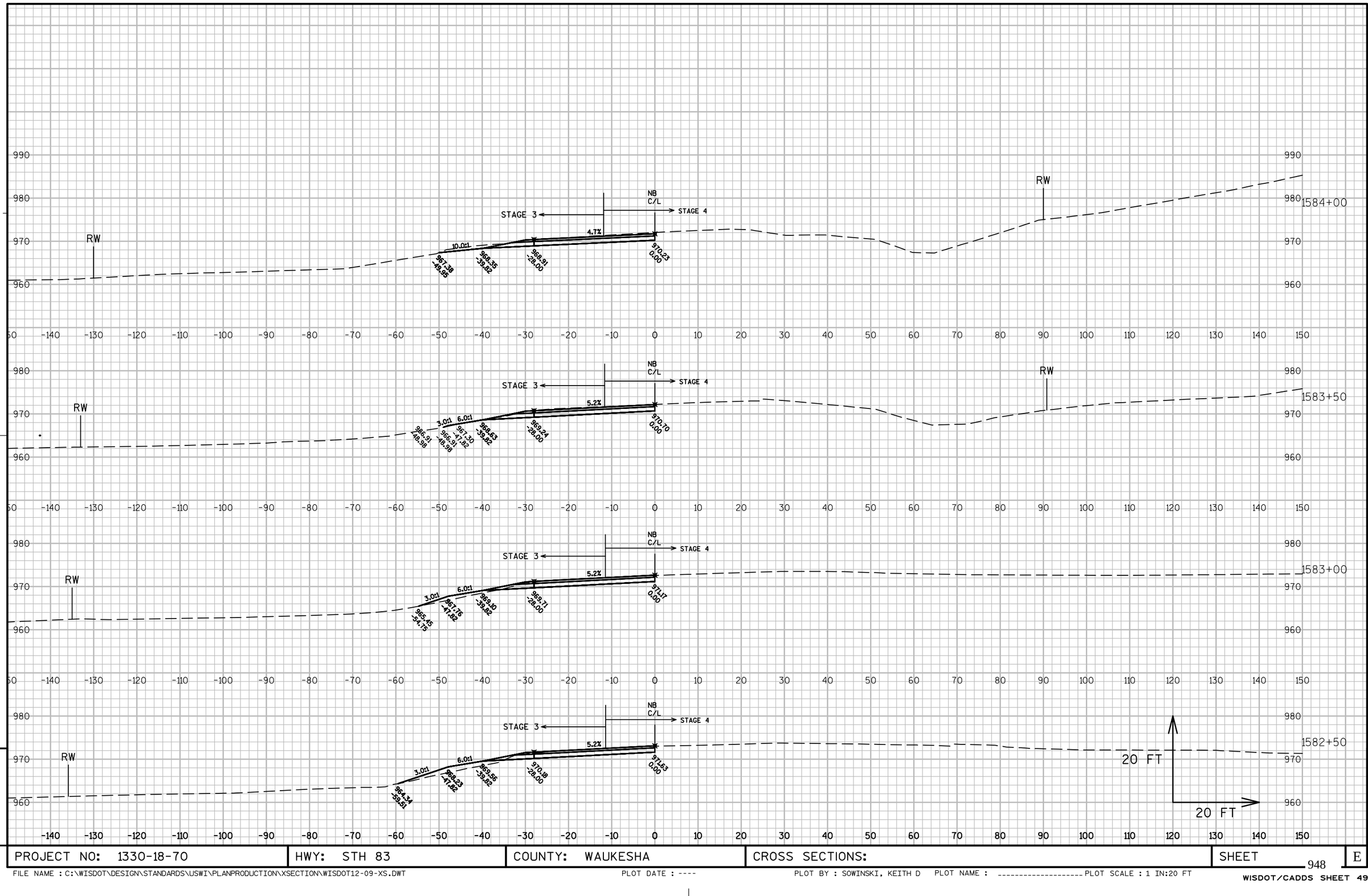
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 946	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 947	E

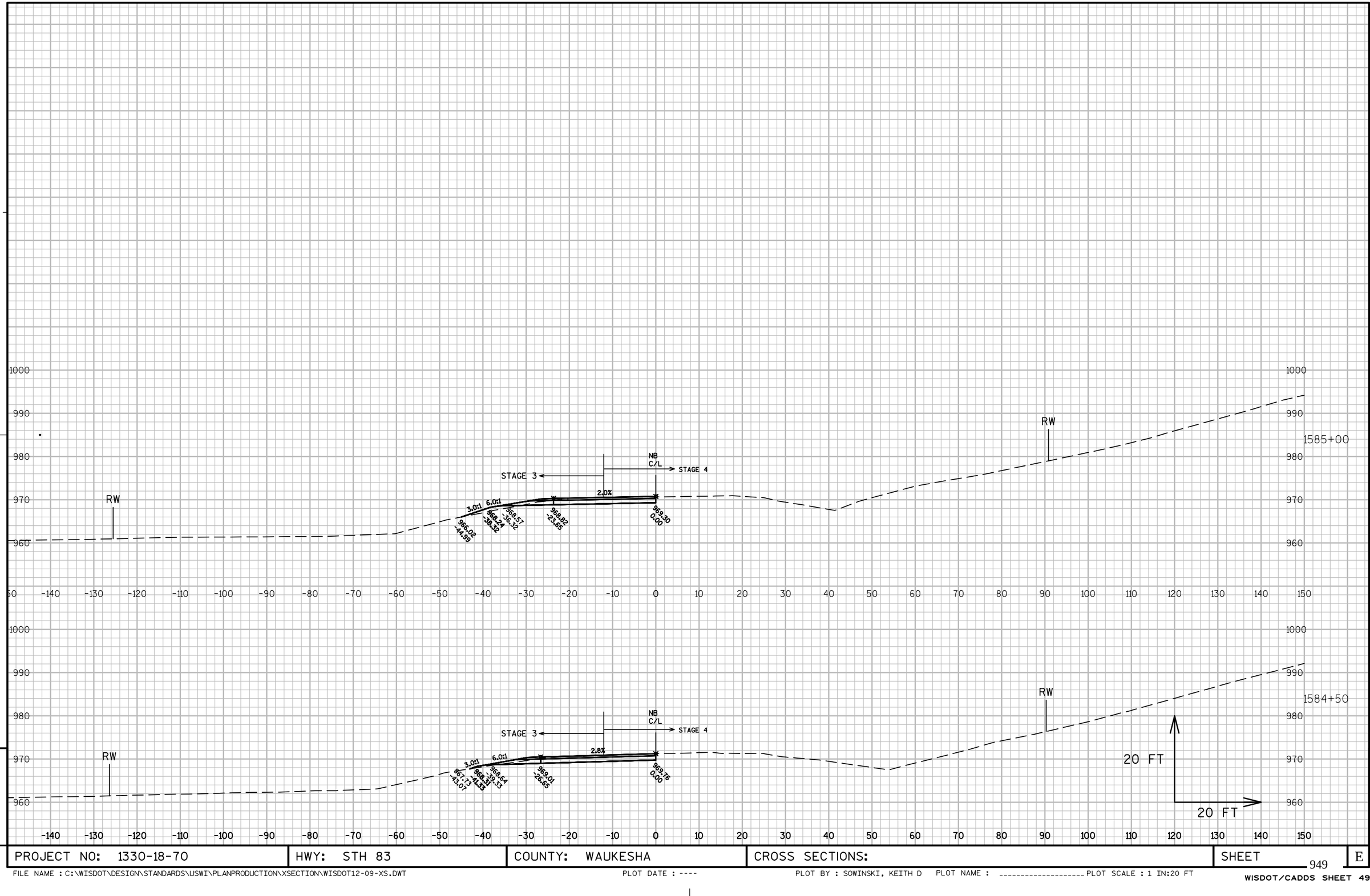
FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



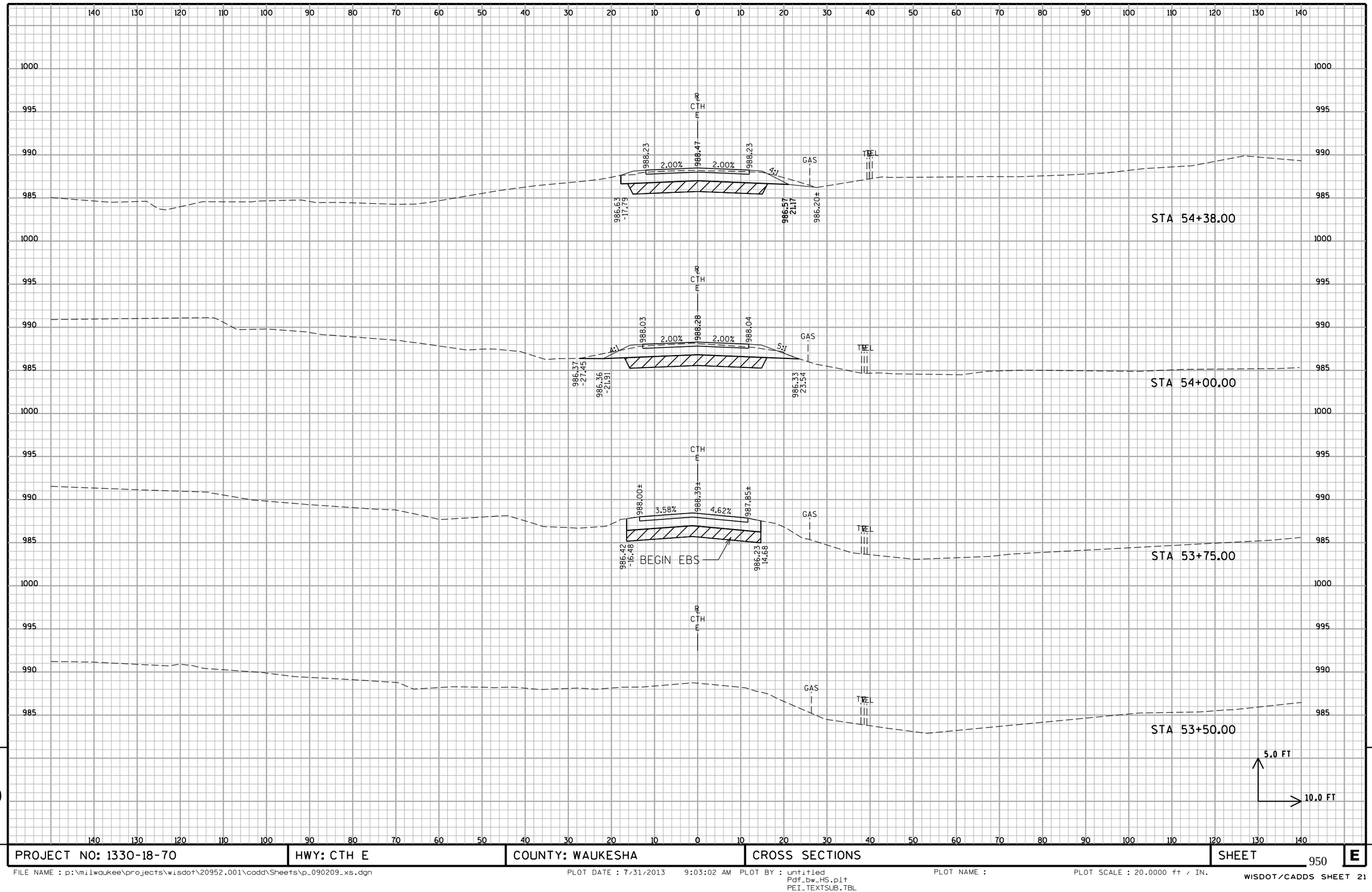
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 948	E

FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : ---------- PLOT SCALE : 1 IN:20 FT



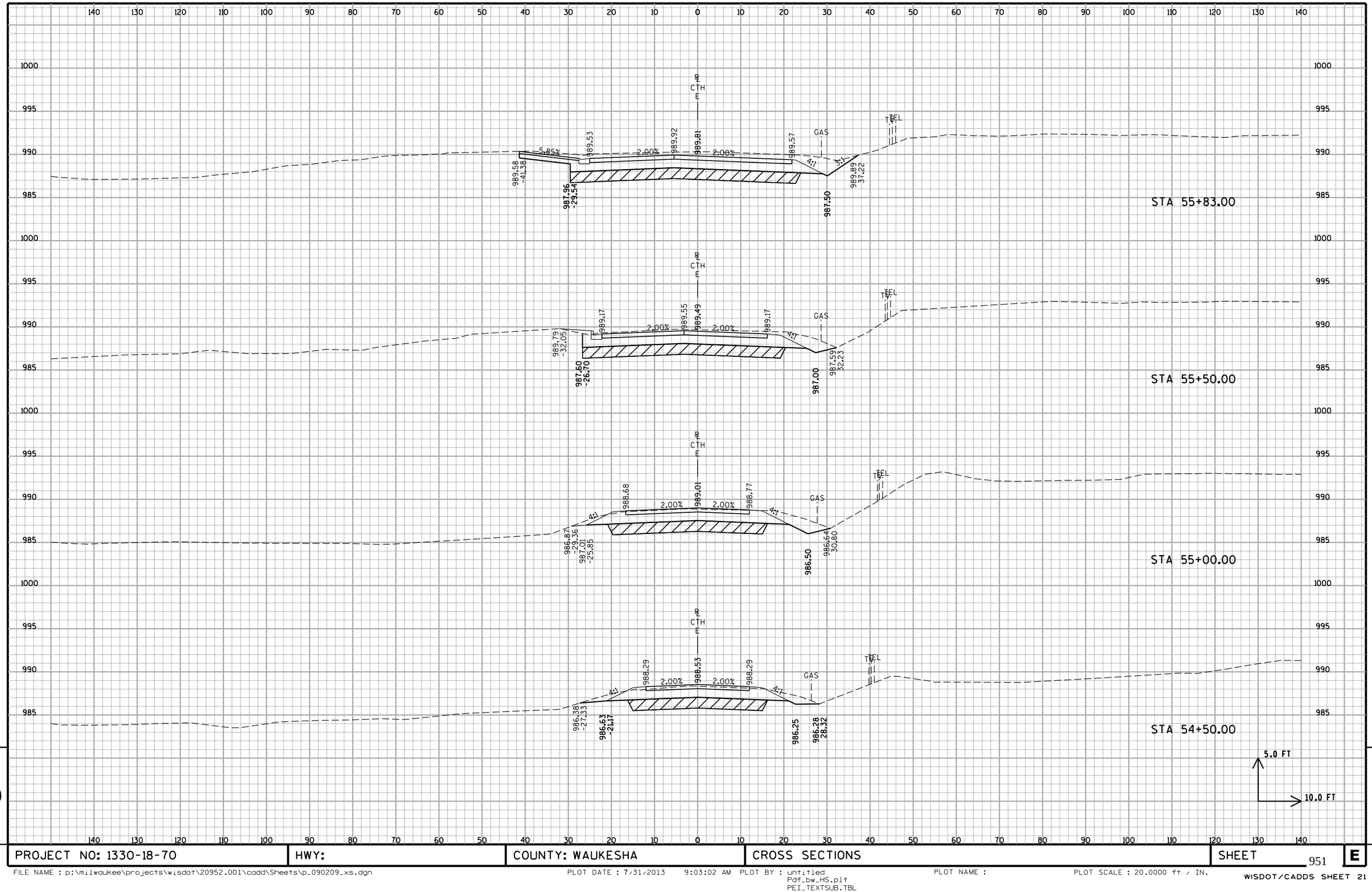
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS:	SHEET 949	E

FILE NAME : C:\WISDOT\DESIGN\STANDARDS\USWI\PLANPRODUCTION\XSECTION\WISDOT12-09-XS.DWT PLOT DATE : ---- PLOT BY : SOWINSKI, KEITH D PLOT NAME : _____ PLOT SCALE : 1 IN:20 FT



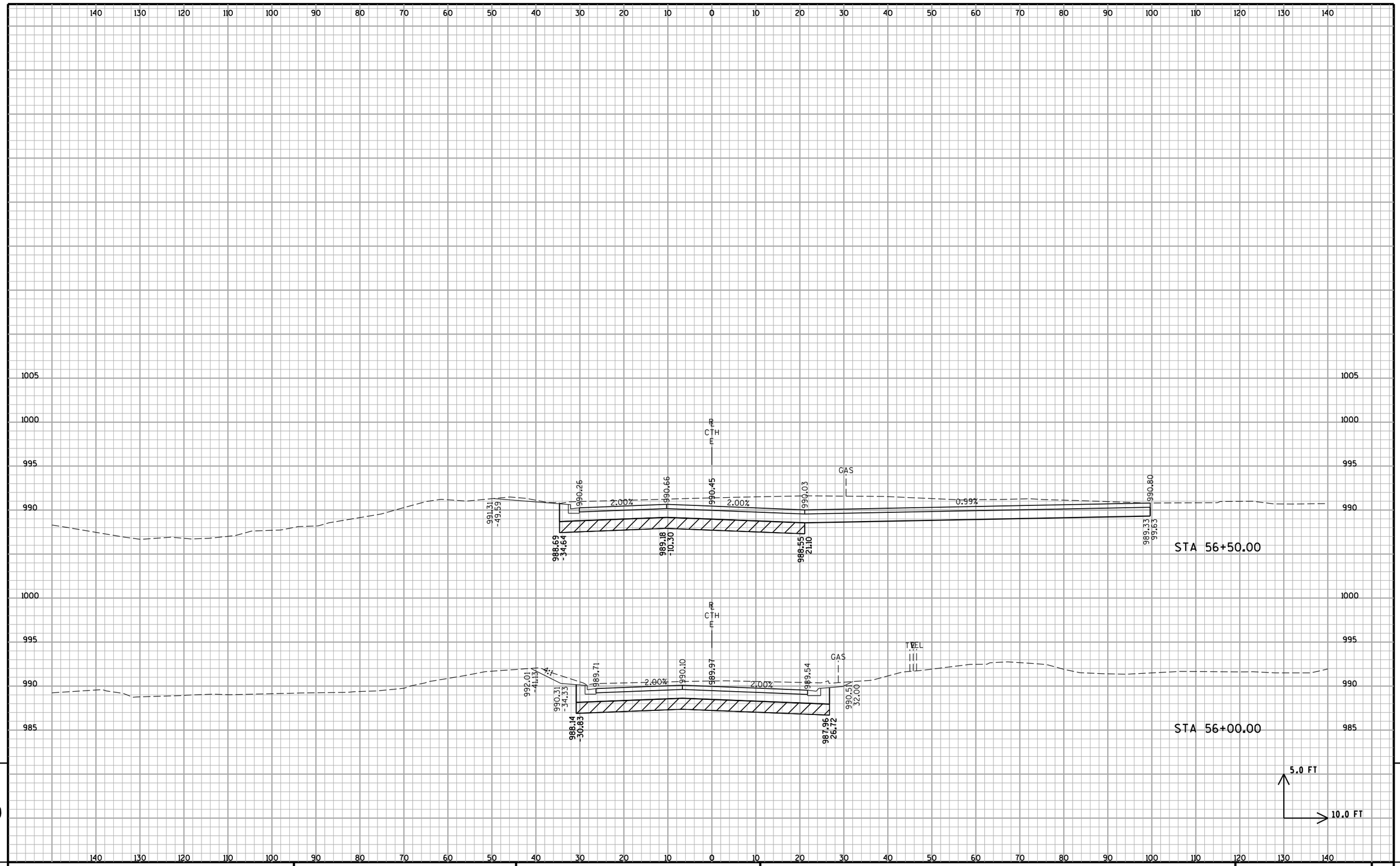
PROJECT NO: 1330-18-70	HWY: CTH E	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 950	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090209_xs.dgn
PLOT DATE : 7/31/2013 9:03:02 AM PLOT BY : untitled Pdf_bw_HS.plt PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



PROJECT NO: 1330-18-70	HWY:	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 951	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090209_xs.dgn
PLOT DATE : 7/31/2013 9:03:02 AM PLOT BY : untitled
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 1330-18-70	HWY:	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 952	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090209_xs.dgn
PLOT DATE : 7/31/2013 9:03:03 AM PLOT BY : untitled
Pdf_bw_HS.plt
PEI_TEXTSUB.TBL
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21

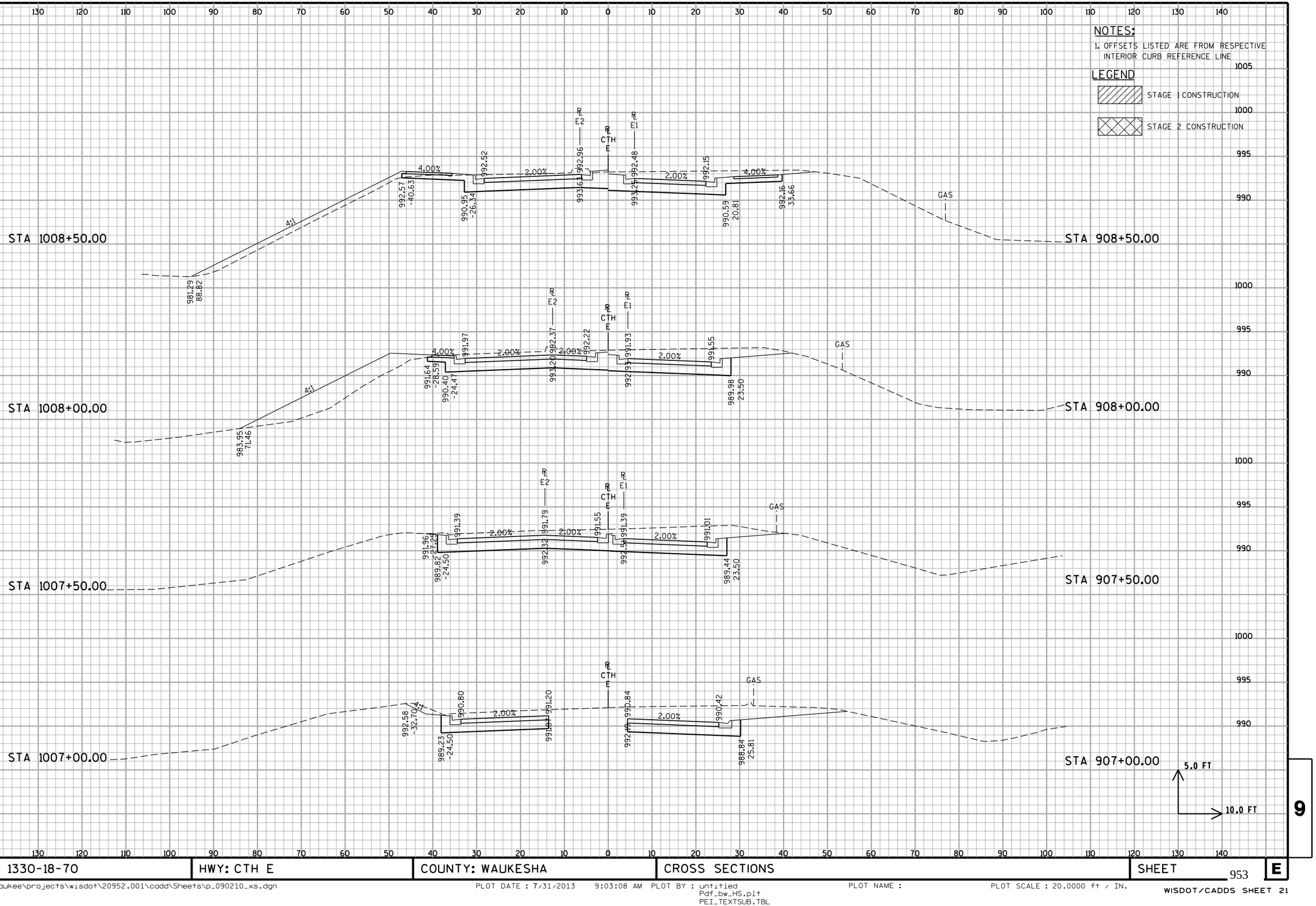
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



9

9

PROJECT NO: 1330-18-70	HWY: CTH E	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 953	E

NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 1009+23.57

993.42

2.00%

993.82

994.08

℄ E2

℄ CTH E

STA 1009+00.00

993.26
982.38

4:1

GAS

993.00
47.00

4.00%

992.95

991.35
35.75

2.00%

993.54

993.46

℄ E2

℄ CTH E

994.10

993.03

993.59

℄ E1

GAS

992.68

991.10
22.19

2.00%

992.28
27.54

4.00%

992.44
35.76

E

GAS

STA 909+00.00

℄ CTH E

994.10

993.32

993.27

℄ E1

2.00%

992.94

991.36
24.16

4.00%

992.96
37.83

993.92
42.60

E

GAS

GAS

STA 909+26.70

5.0 FT

10.0 FT

9

9

PROJECT NO: 1330-18-70	HWY: CTH E	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 954	E

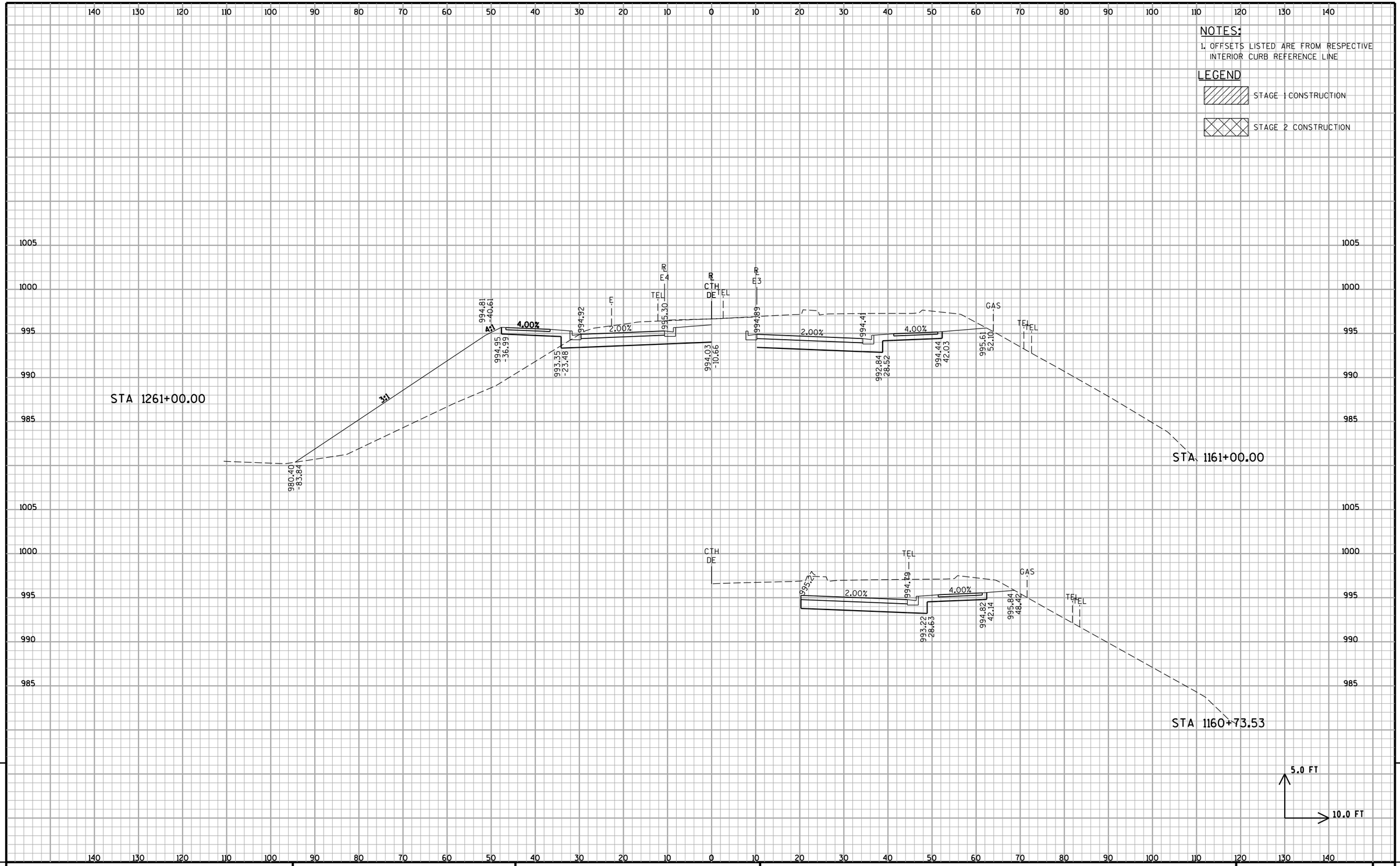
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



PROJECT NO: 1330-18-70	HWY: CTH DE	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 955	E

NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 1262+50.00

STA 1162+50.00

STA 1262+00.00

STA 1162+00.00

STA 1261+50.00

STA 1161+50.00

5.0 FT

10.0 FT

PROJECT NO: 1330-18-70	HWY: CTH DE	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 956	E

NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 1263+50.00

STA 1163+50.00

STA 1163+32.00

STA 1263+00.00

STA 1163+00.00

5.0 FT

10.0 FT

PROJECT NO: 1330-18-70	HWY: CTH DE	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 957	E

9

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090211_xs.dgn PLOT DATE : 7/31/2013 9:03:12 AM PLOT BY : untitled Pdf_bw_HS.plt PEI_TEXTSUB.TBL PLOT NAME : PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21

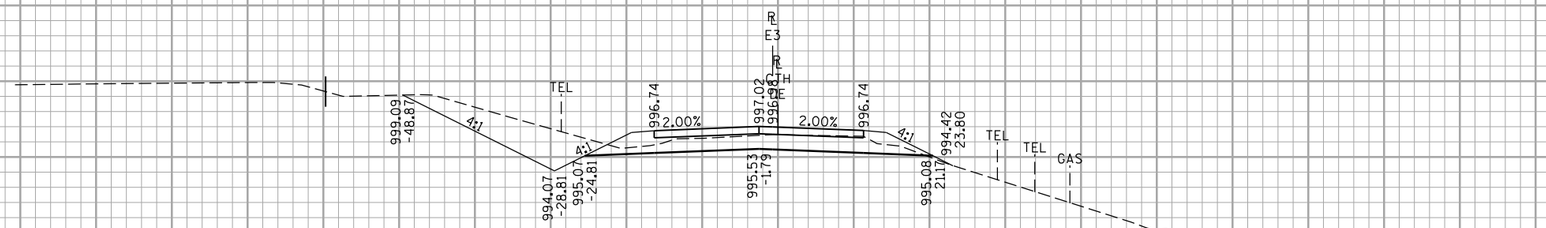
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

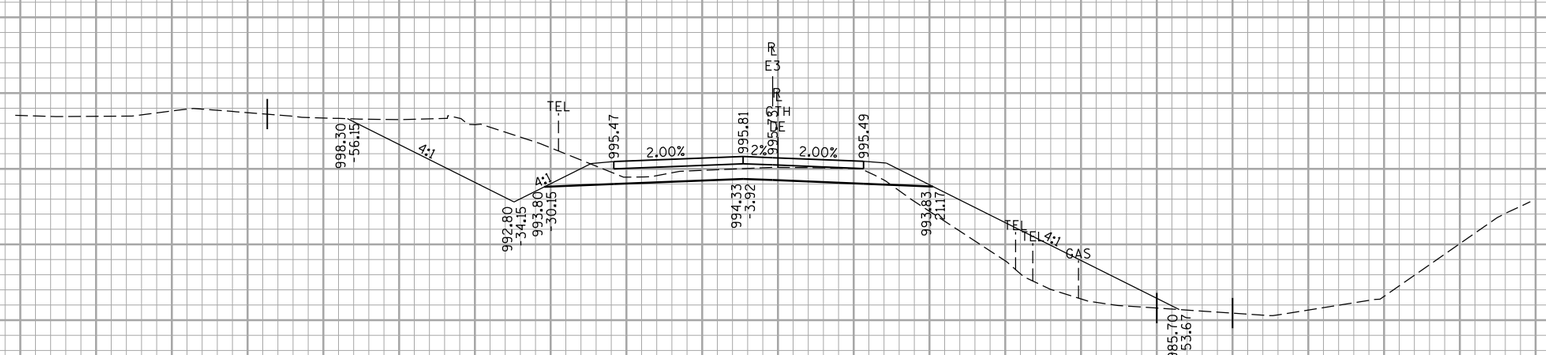
LEGEND

STAGE 1 CONSTRUCTION

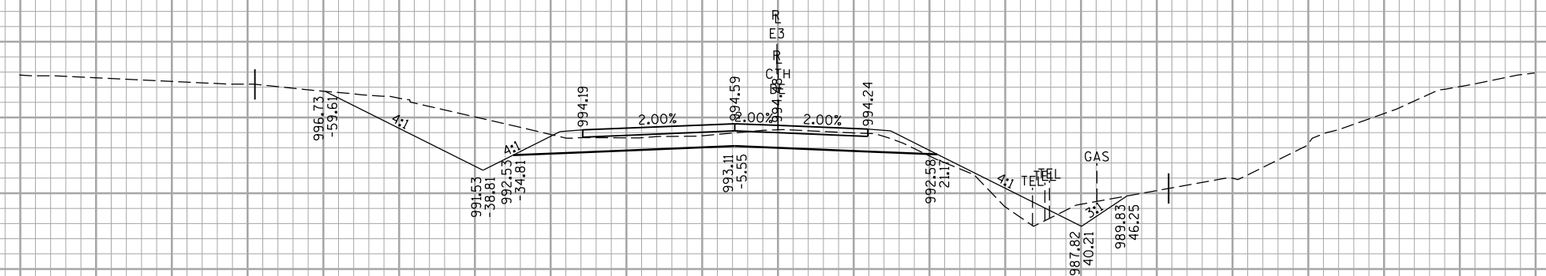
STAGE 2 CONSTRUCTION



STA 1165+00.00



STA 1164+50.00



STA 1164+00.00

5.0 FT

10.0 FT

9

9

PROJECT NO: 1330-18-70	HWY: CTH DE	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 958	E

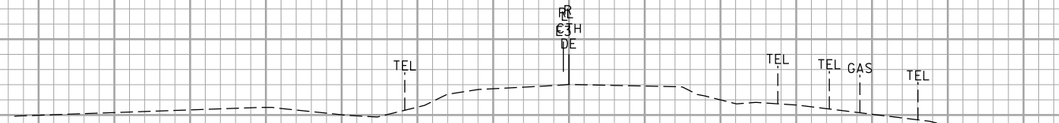
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

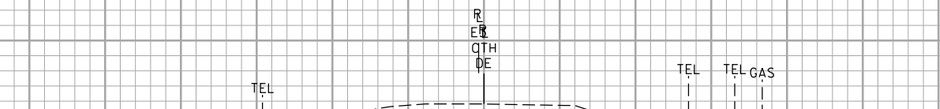
LEGEND

STAGE 1 CONSTRUCTION

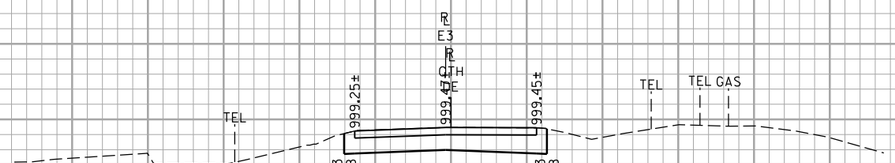
STAGE 2 CONSTRUCTION



STA 1167+00.00



STA 1166+50.00



STA 1166+00.00

STA 1165+50.00

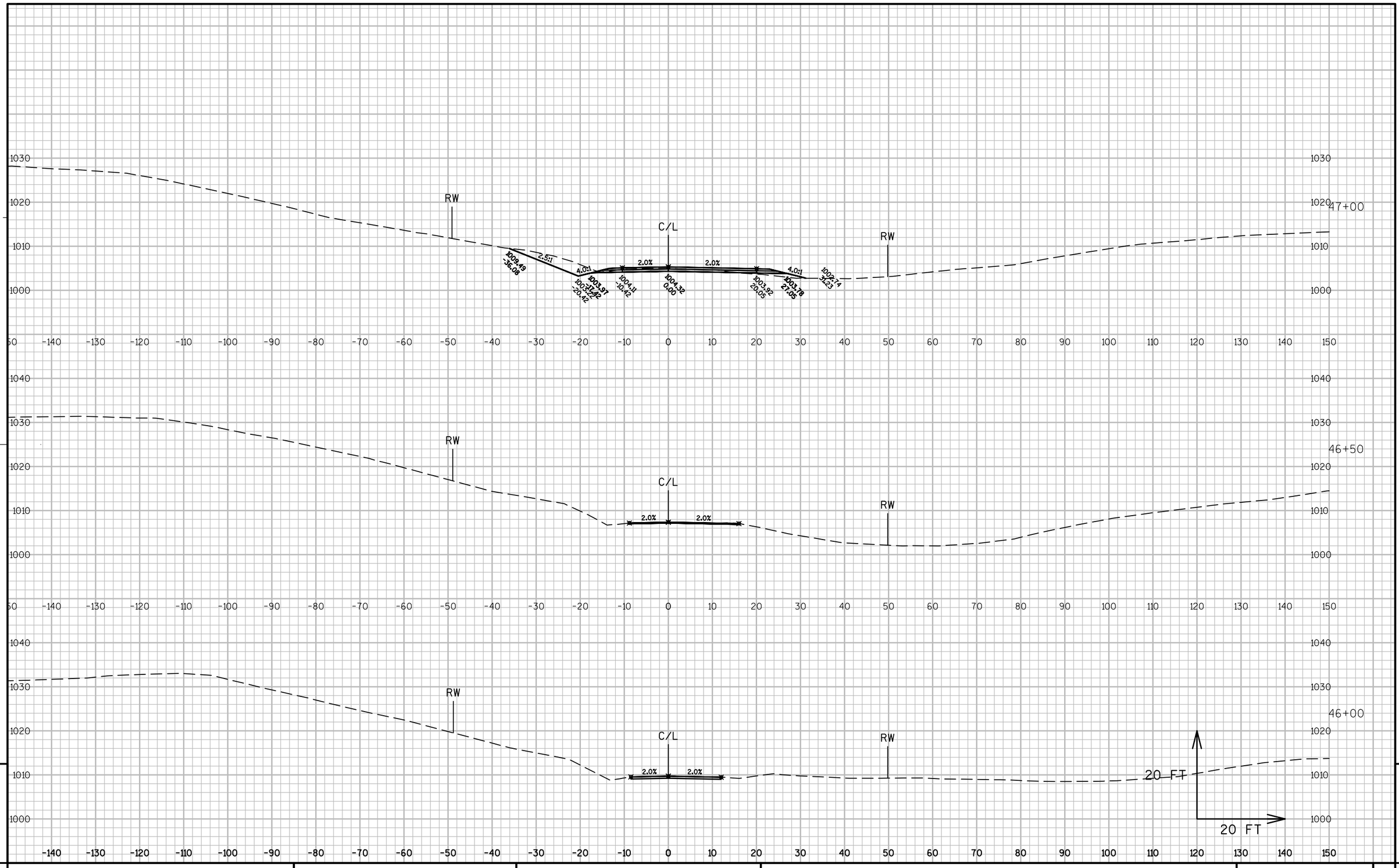
5.0 FT

10.0 FT

9

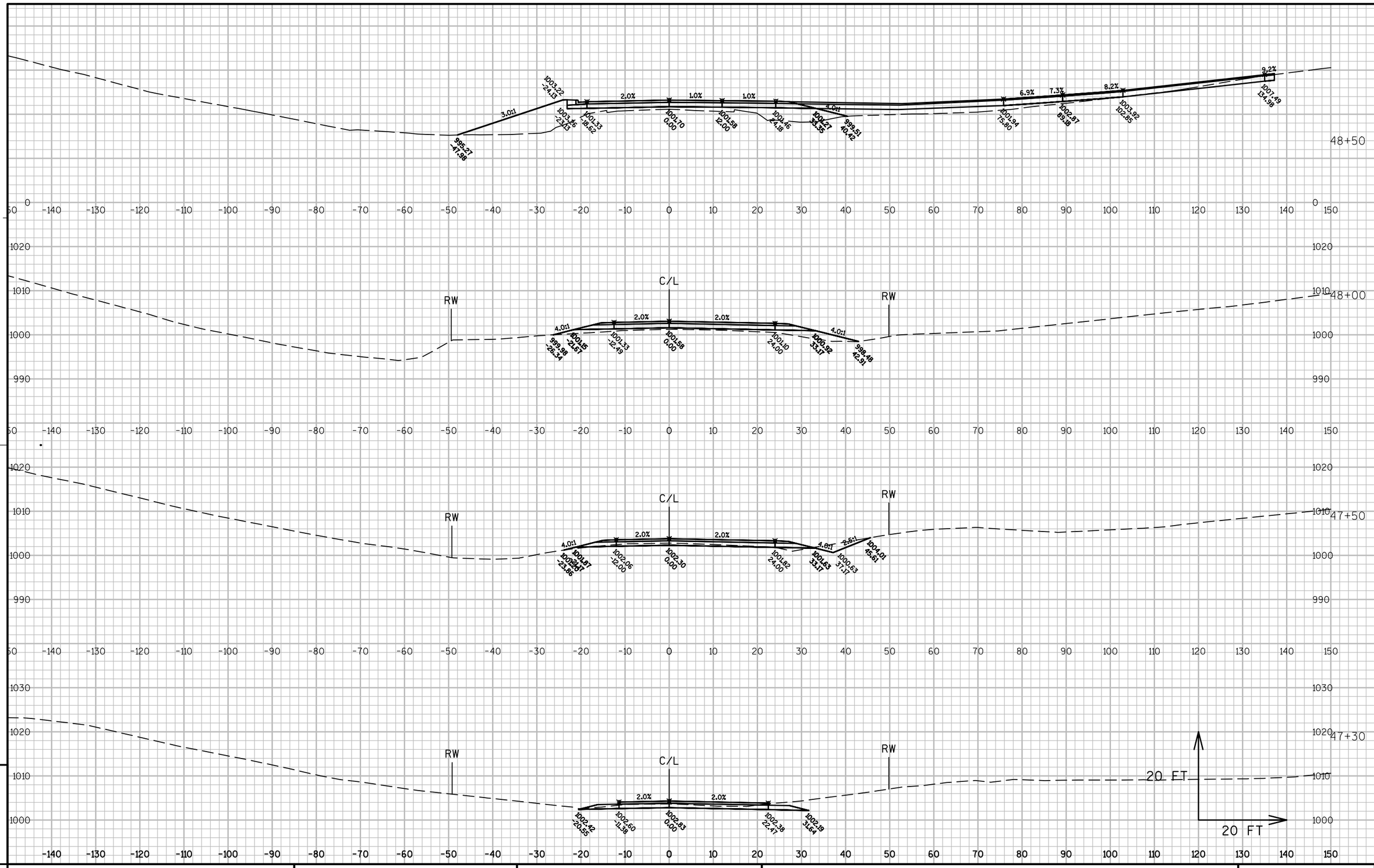
9

PROJECT NO: 1330-18-70	HWY: CTH DE	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 959	E



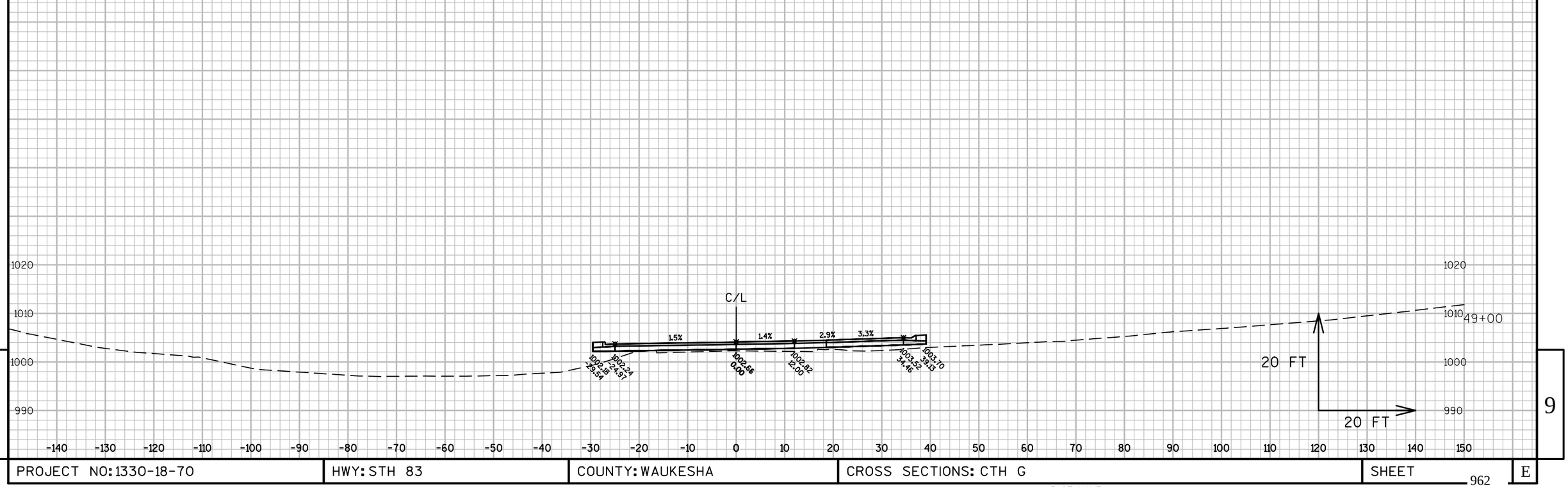
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: CTH G	SHEET 960	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_CTH G_XSECTION.DWG PLOT DATE : 7/20/2013 4:06 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT



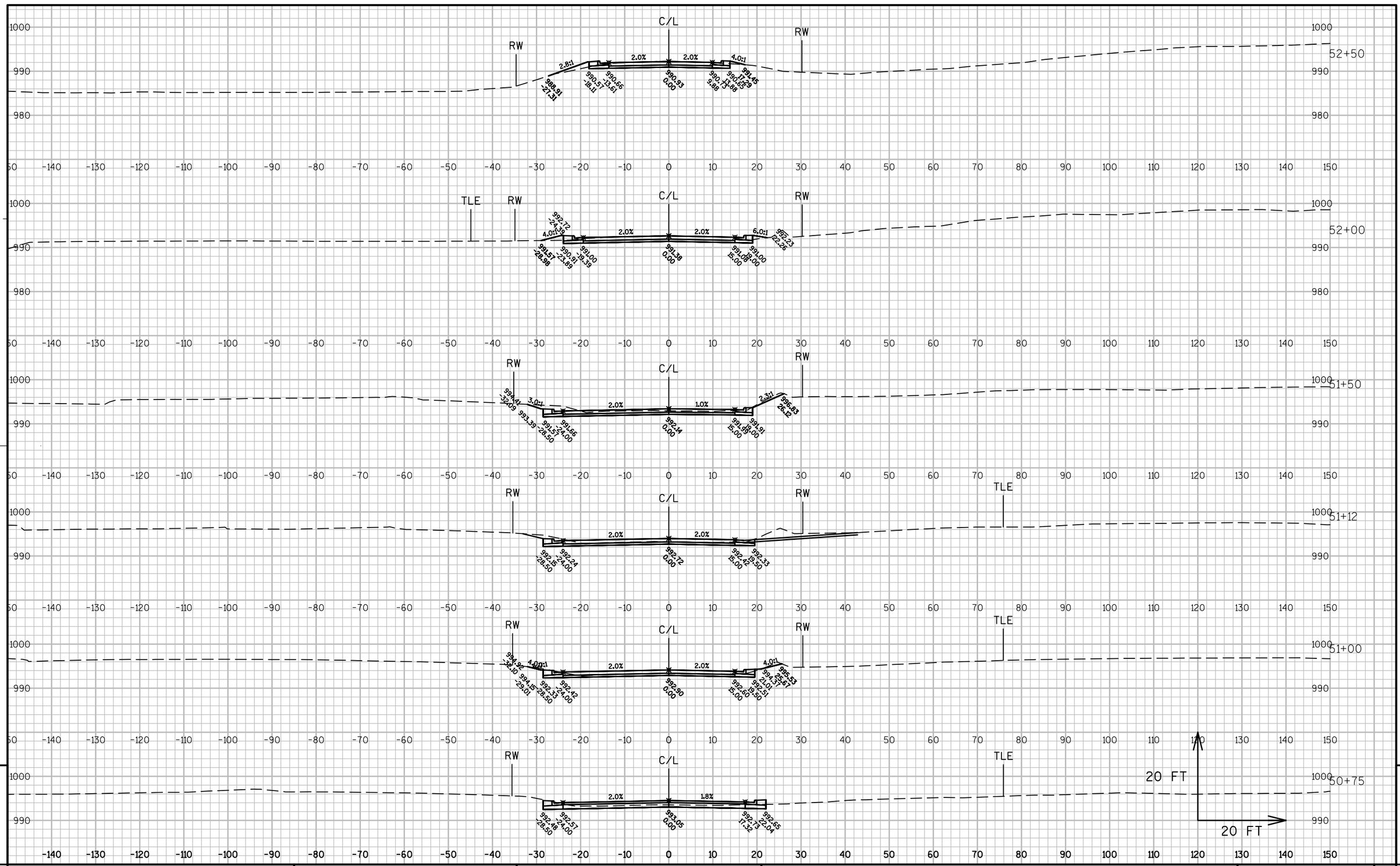
PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: CTH G	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_CTH G_XSECTION.DWG PLOT DATE : 7/20/2013 4:06 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: CTH G	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_CTH G_XSECTION.DWG PLOT DATE : 7/20/2013 4:07 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: MAIN STREET	SHEET	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_MAIN ST_XSECTION.DWG PLOT DATE : 7/20/2013 3:44 PM PLOT BY : FERK, ANDREW C PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

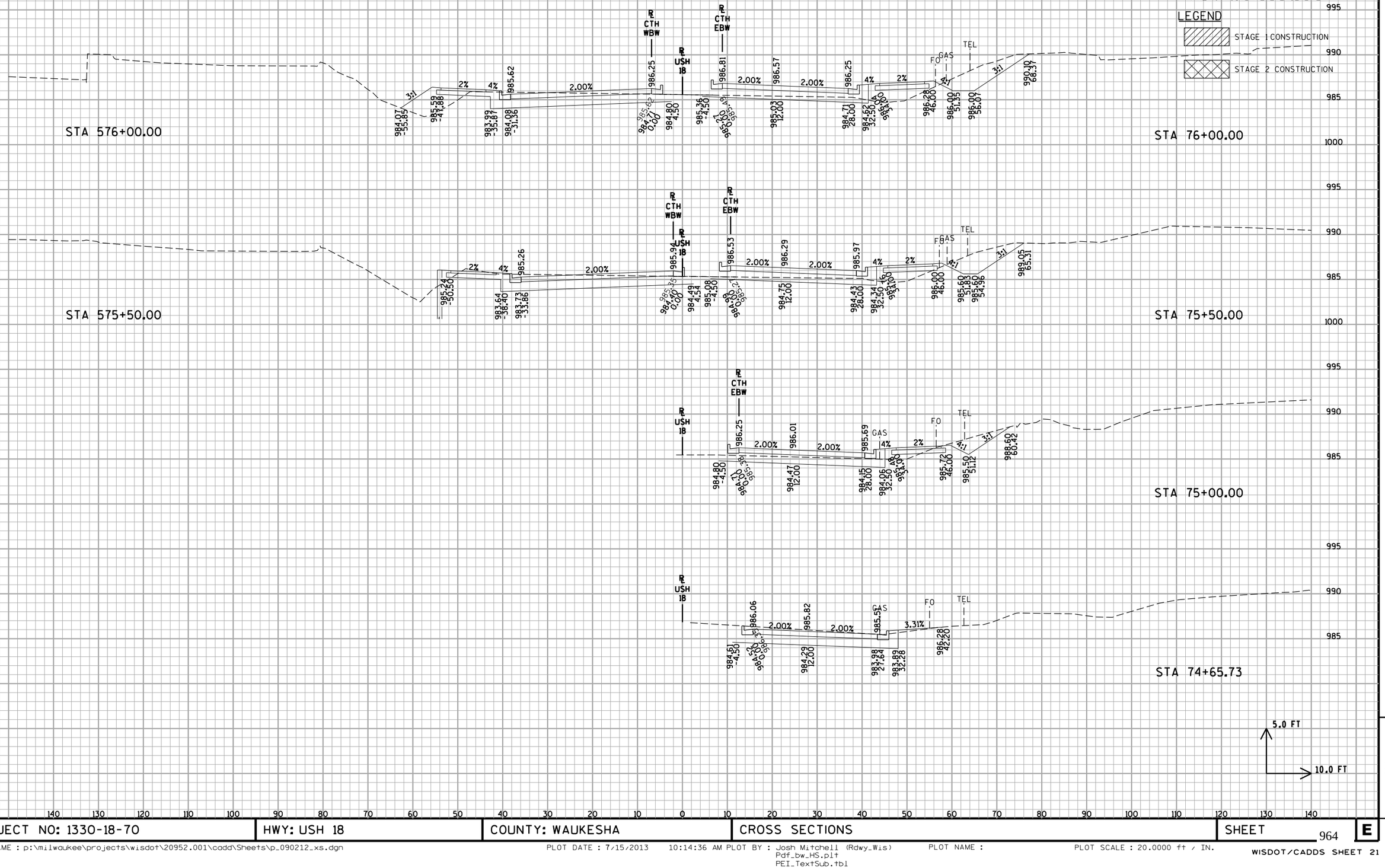
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



PROJECT NO: 1330-18-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 964	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090212_xs.dgn PLOT DATE : 7/15/2013 10:14:36 AM PLOT BY : Josh Mitchell (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21

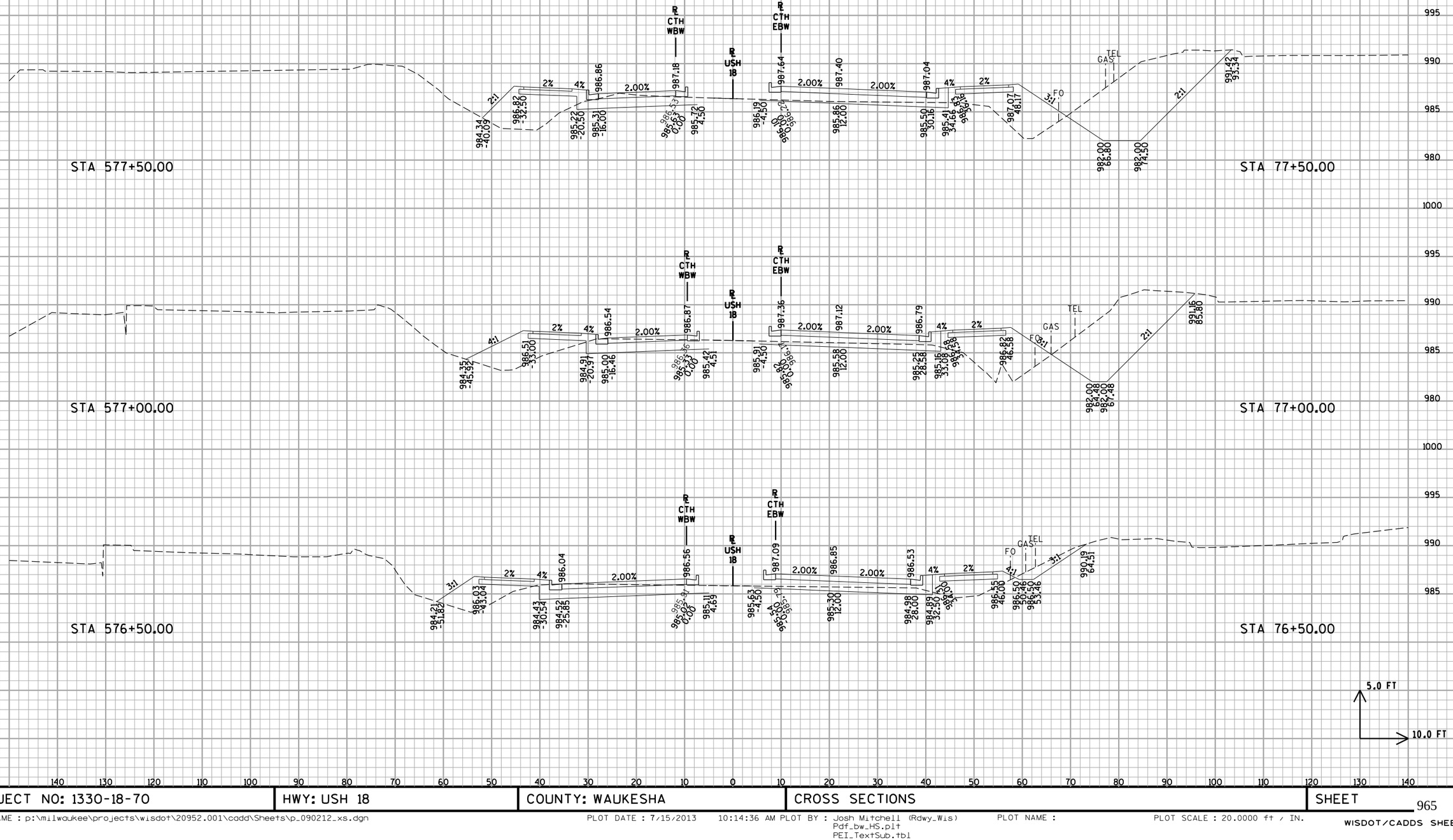
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



PROJECT NO: 1330-18-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 965	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090212_xs.dgn PLOT DATE : 7/15/2013 10:14:36 AM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ft / IN.
Pdf_bw_HS.plt
PEI_TextSub.tbl
WISDOT/CADDS SHEET 21

NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 579+00.00

STA 79+00.00

STA 578+50.00

STA 78+50.00

STA 578+00.00

STA 78+00.00

5.0 FT

10.0 FT

9

9

PROJECT NO: 1330-18-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090212_xs.dgn PLOT DATE : 7/15/2013 10:14:37 AM PLOT BY : Josh Mitchell (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ft / IN.
Pdf_bw_HS.plt
PEI_TextSub.tbl
WISDOT/CADDS SHEET 21

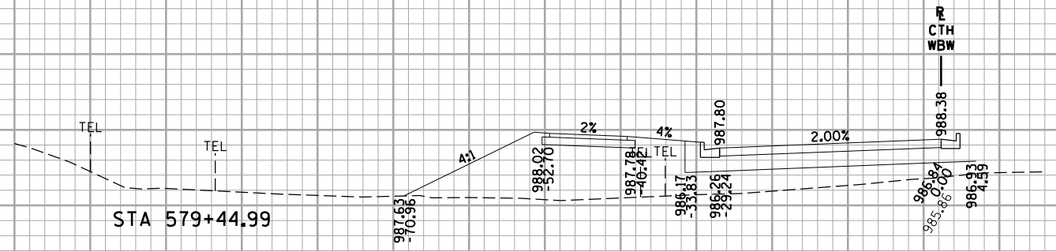
NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION



5.0 FT

10.0 FT

9

9

PROJECT NO: 1330-18-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 967	E

NOTES:

1. OFFSETS LISTED ARE FROM RESPECTIVE INTERIOR CURB REFERENCE LINE

LEGEND

STAGE 1 CONSTRUCTION

STAGE 2 CONSTRUCTION

STA 582+00.00

STA 581+50.00

STA 581+00.00

STA 580+93.24

STA 82+00.00

STA 81+50.00

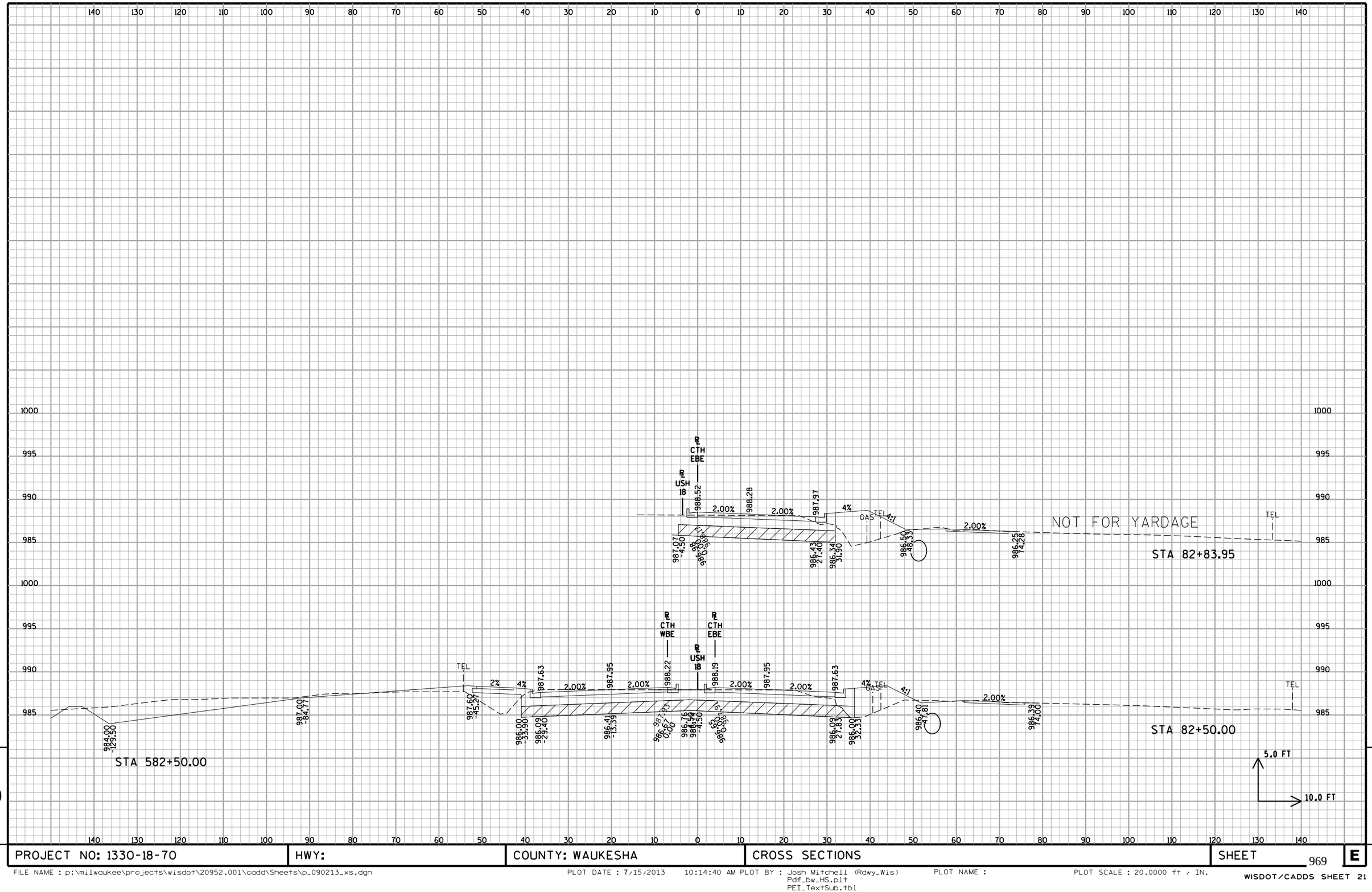
STA 81+00.00

BEGIN EBS

5.0 FT

10.0 FT

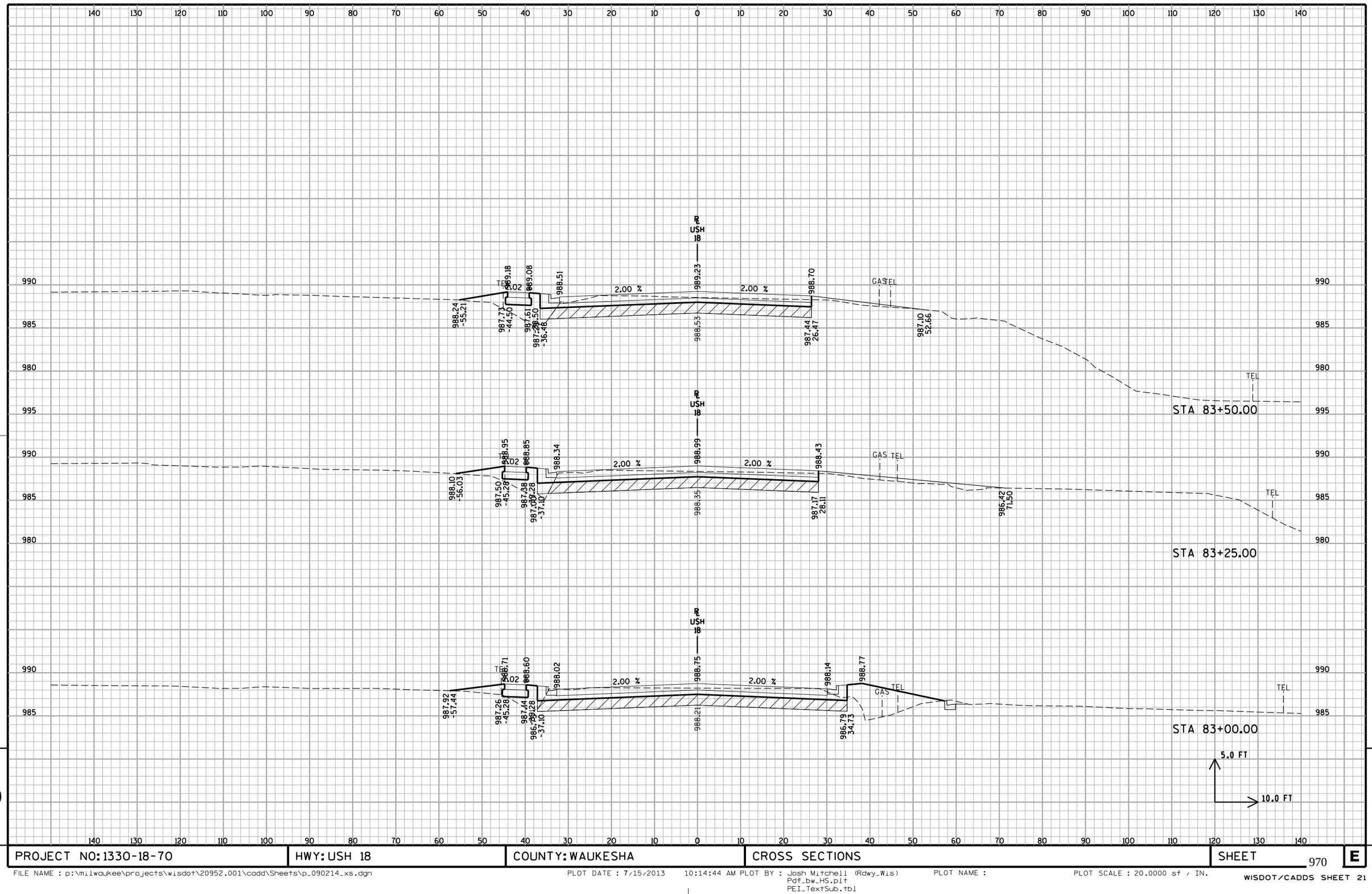
PROJECT NO: 1330-18-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 968	E



9

9

PROJECT NO: 1330-18-70	HWY:	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 969	E

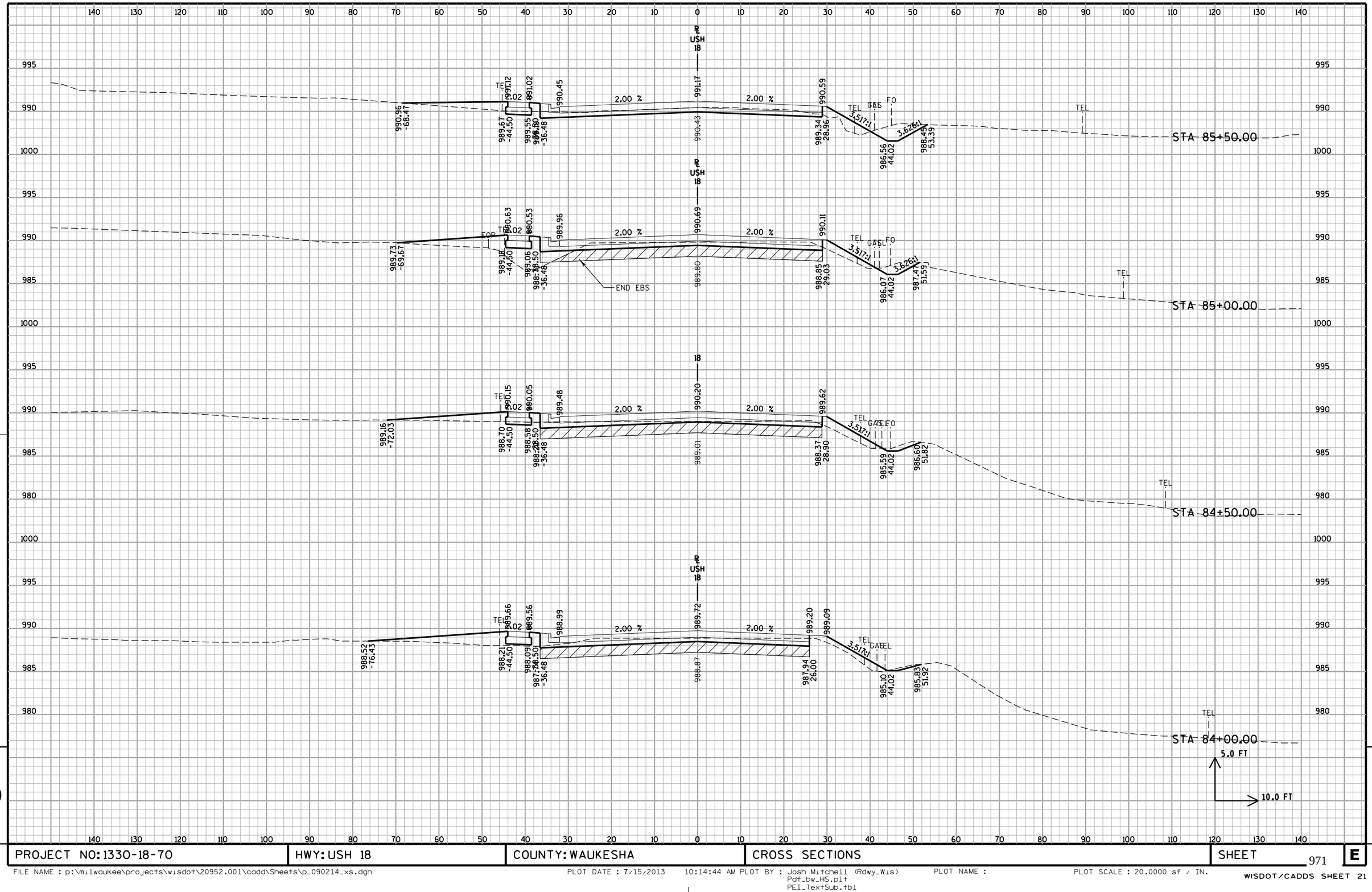


9

PROJECT NO: 1330-18-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 970	E

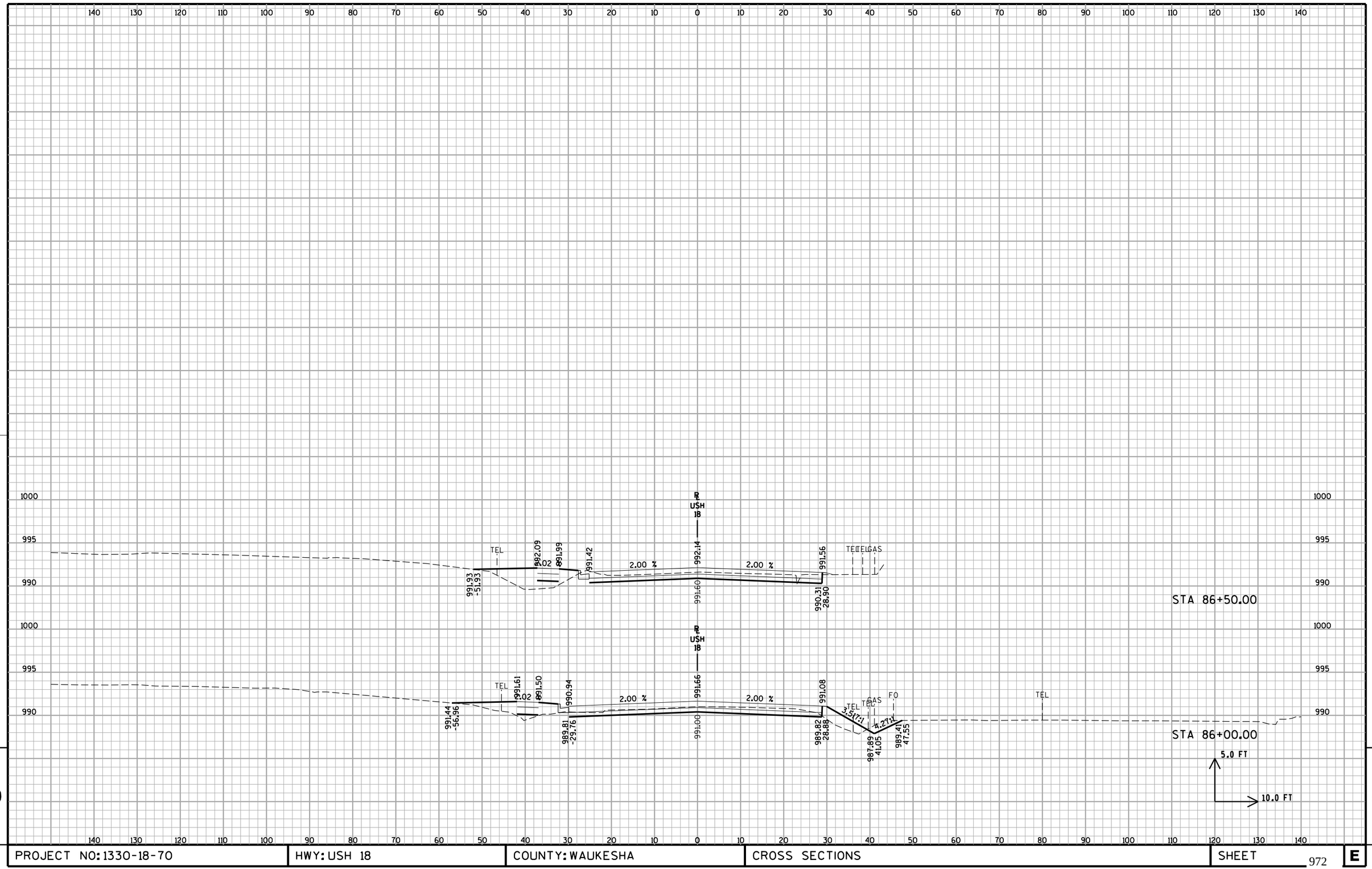
9

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090214_xs.dgn
PLOT DATE : 7/15/2013 10:14:44 AM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 sf / IN.
WISDOT/CADDS SHEET 21



PROJECT NO: 1330-18-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 971	E

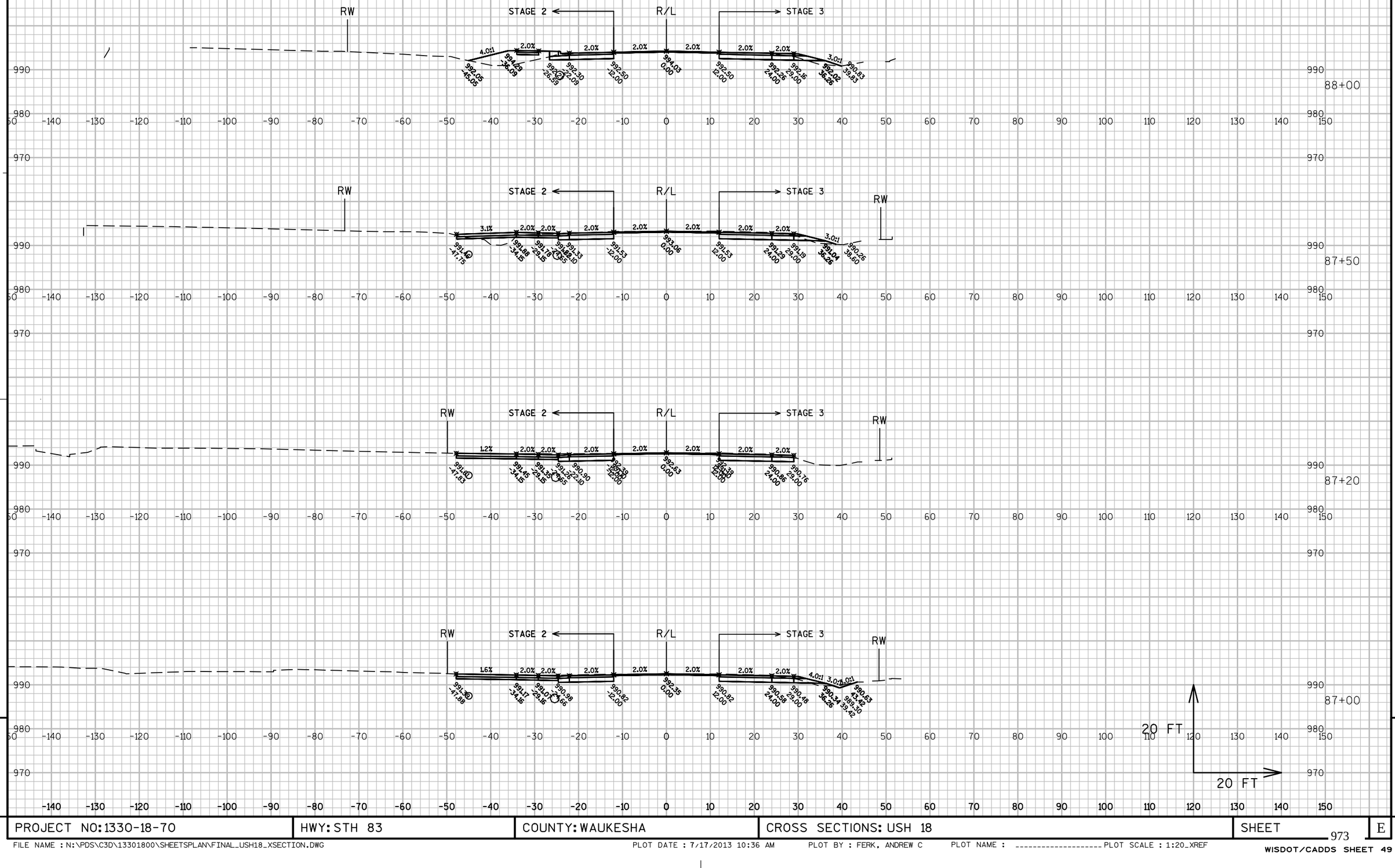
FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090214_xs.dgn
PLOT DATE : 7/15/2013 10:14:44 AM PLOT BY : Josh Mitchell (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 sf / IN.
WISDOT/CADDS SHEET 21



PROJECT NO: 1330-18-70	HWY: USH 18	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 972	E

FILE NAME : p:\milwaukee\projects\wisdot\20952.001\cadd\Sheets\p_090214_xs.dgn PLOT DATE : 7/15/2013 10:14:45 AM PLOT BY : Josh Mitchell (Rdwy_Wis) Pdf_bw_HS.plt PEI_TextSub.tbl PLOT NAME : PLOT SCALE : 20.0000 sf / IN.

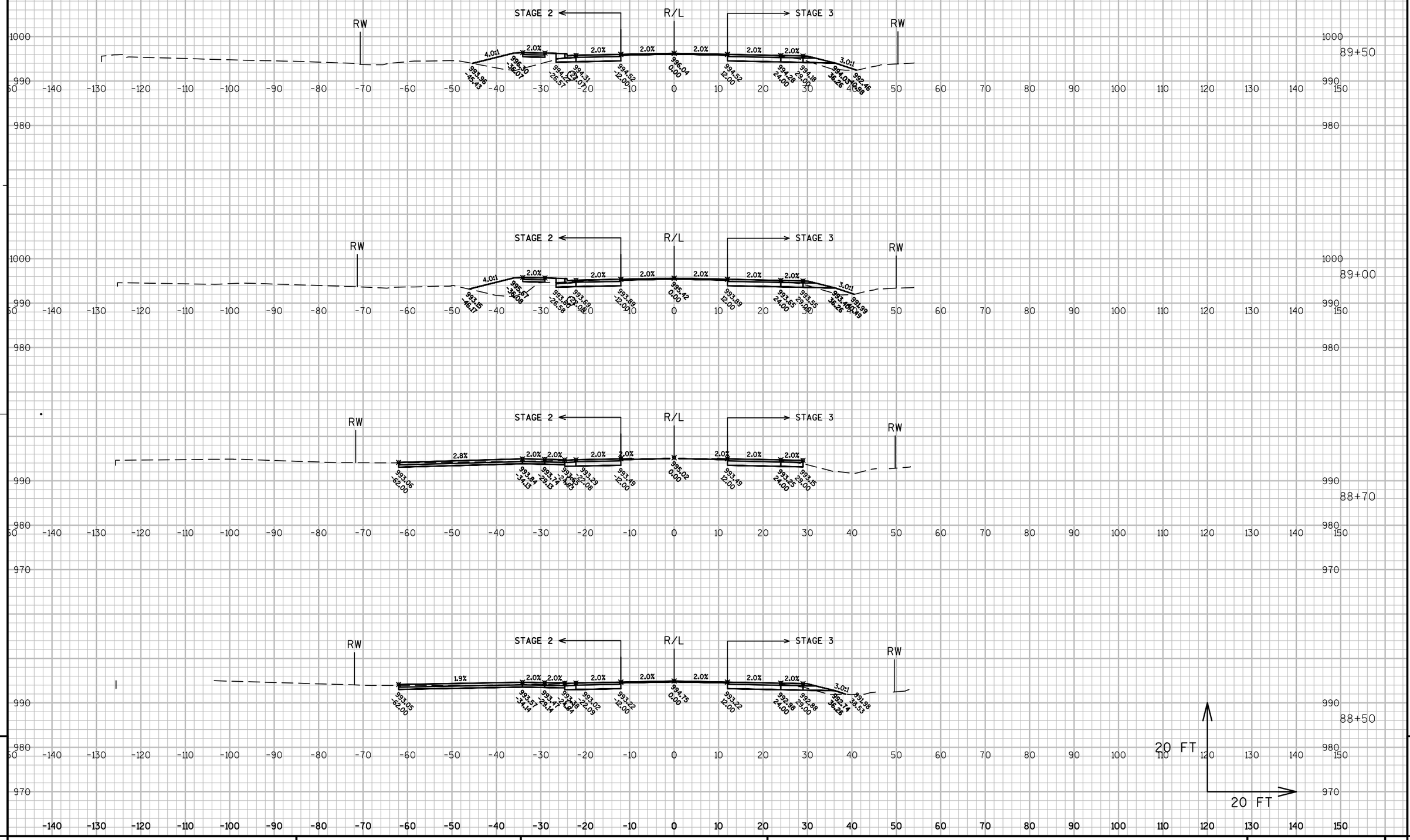
WISDOT/CADDS SHEET 21



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: USH 18	SHEET 973	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_USH18_XSECTION.DWG PLOT DATE : 7/17/2013 10:36 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

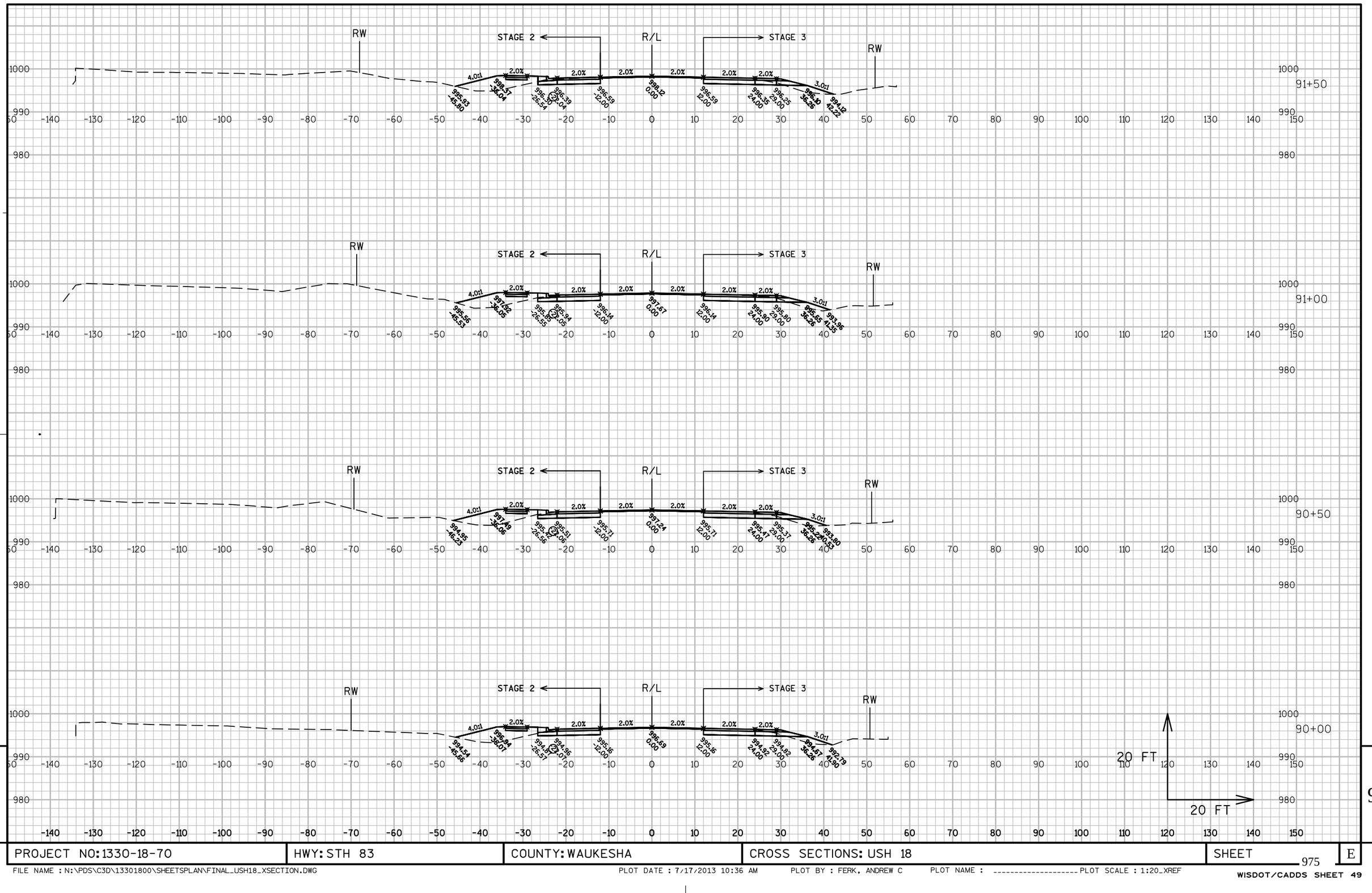


9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: USH 18	SHEET 974	E

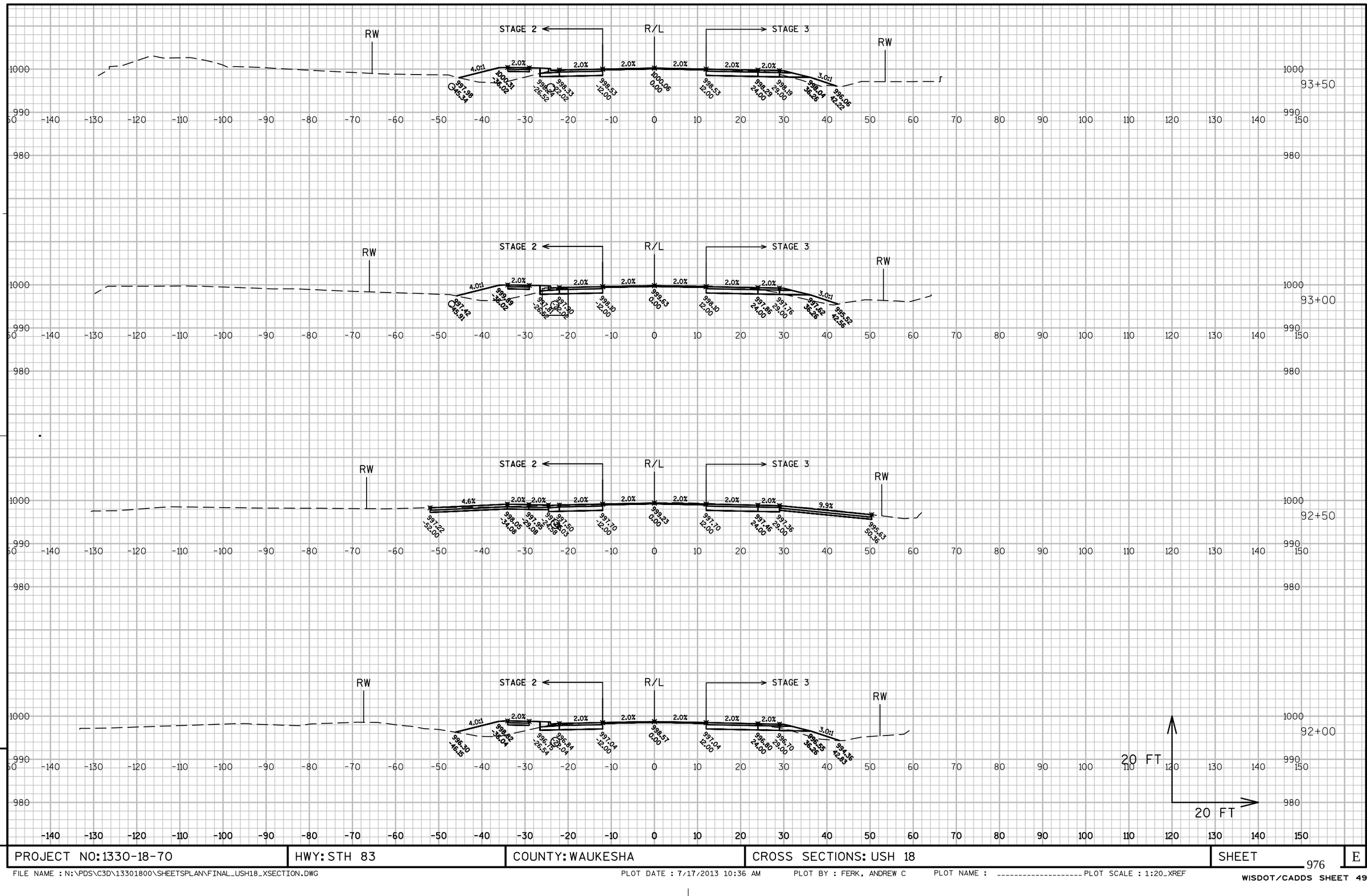
FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_USH18_XSECTION.DWG PLOT DATE : 7/17/2013 10:36 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1:20_XREF



9

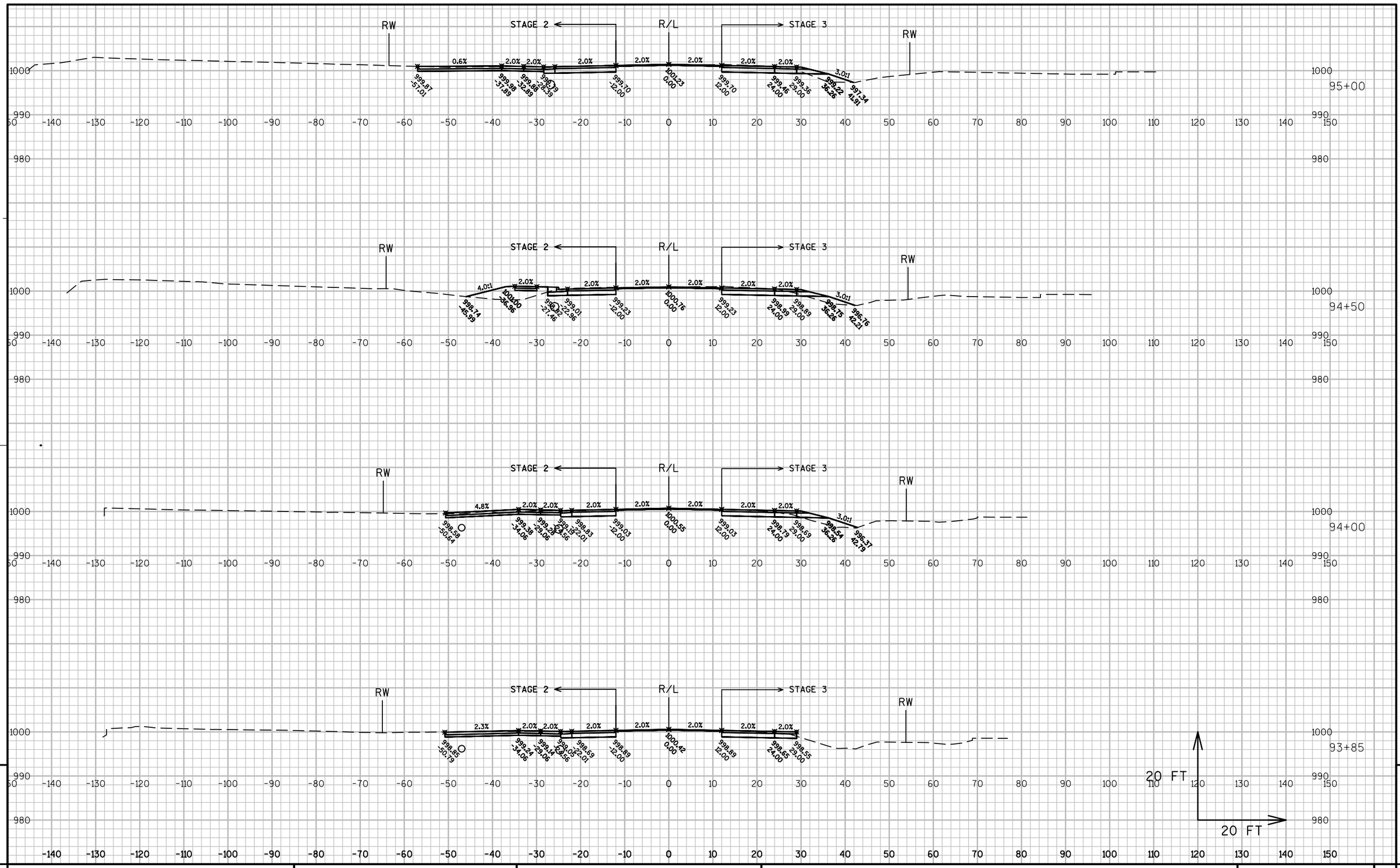
9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: USH 18	SHEET 975	E



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: USH 18	SHEET 976	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_USH18_XSECTION.DWG PLOT DATE : 7/17/2013 10:36 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1:20_XREF



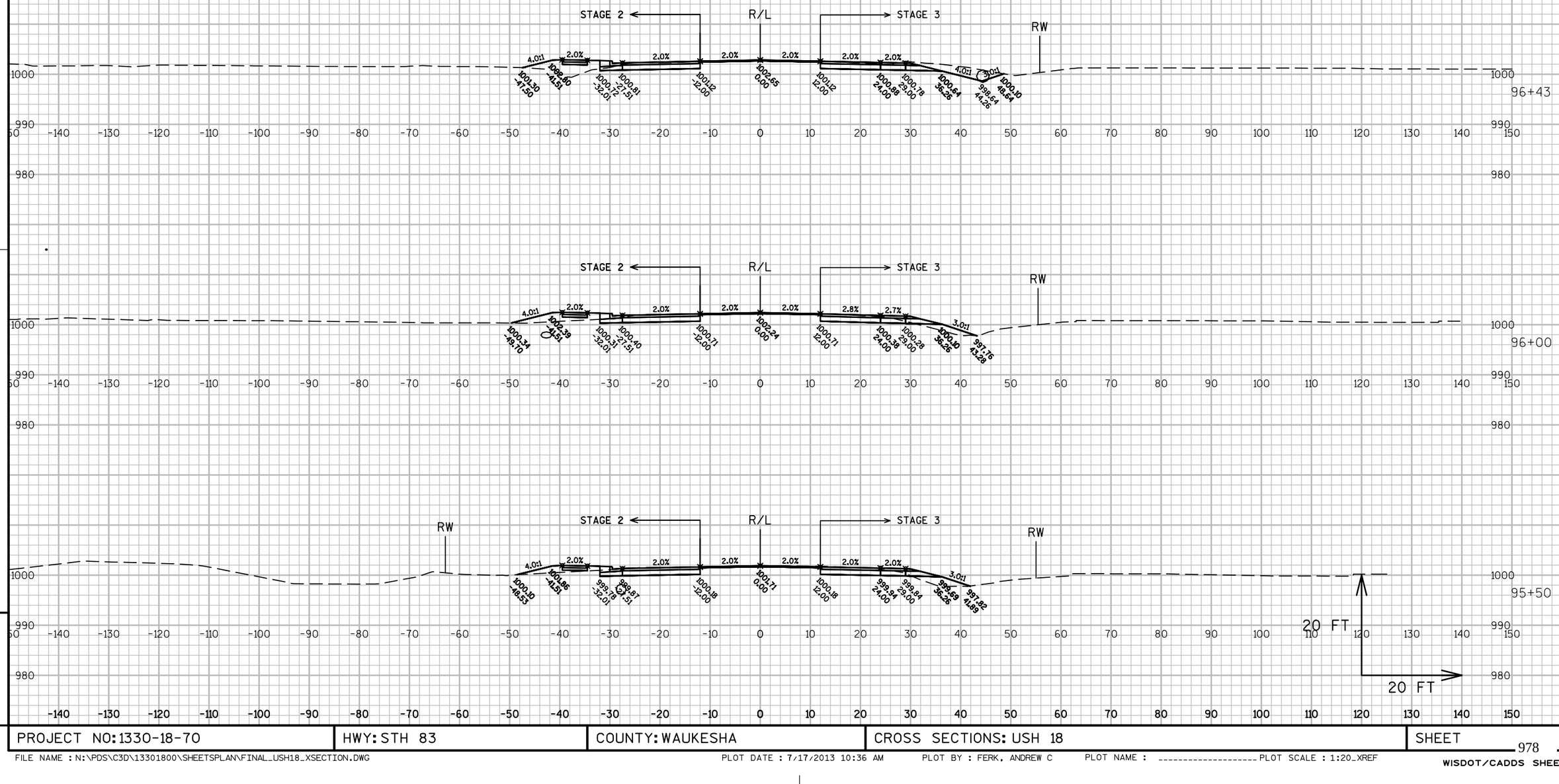
9

9

PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: USH 18	SHEET 977	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_USH18_XSECTION.DWG PLOT DATE : 7/17/2013 10:36 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1:20_XREF

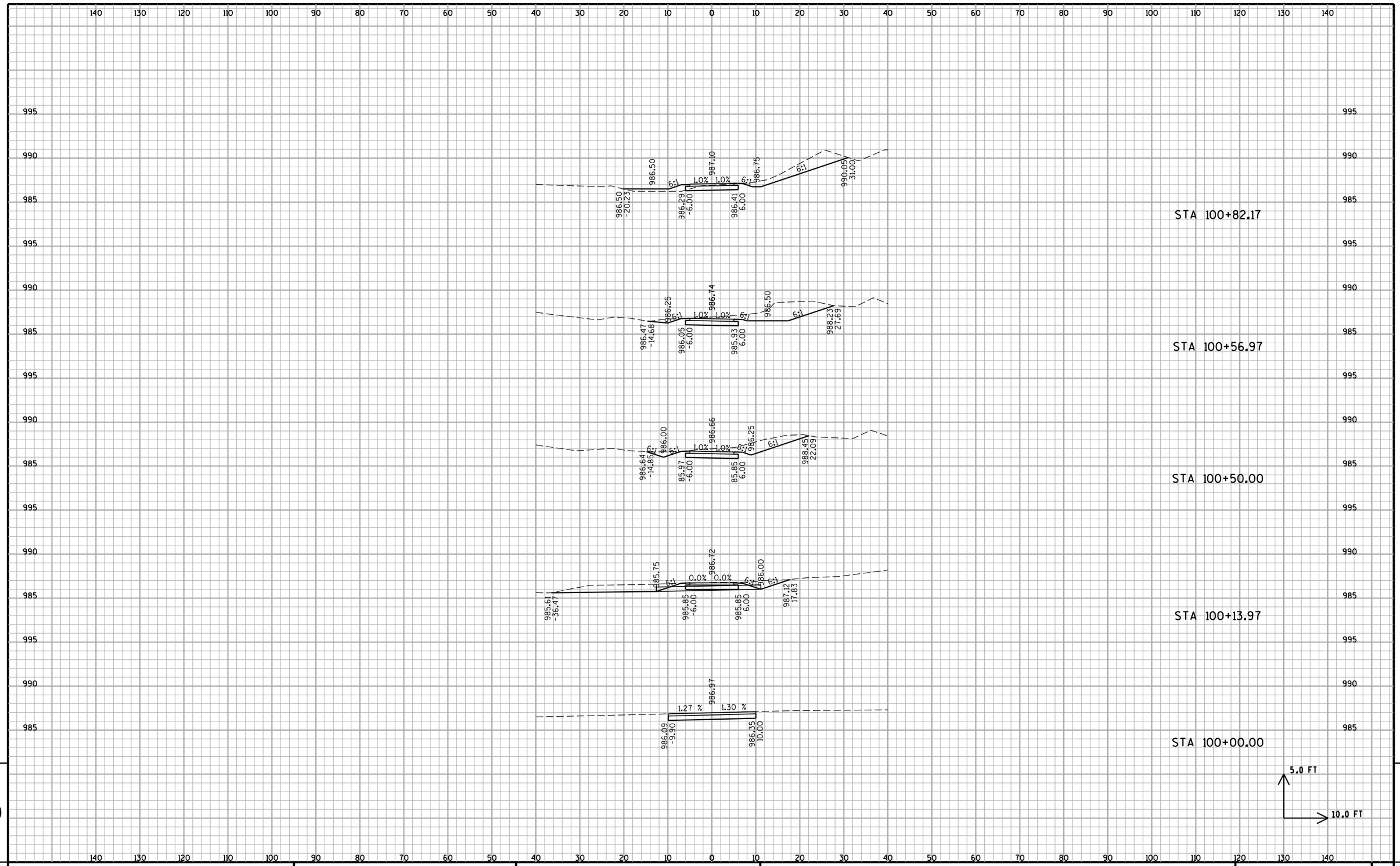
WISDOT/CADDS SHEET 49



PROJECT NO: 1330-18-70	HWY: STH 83	COUNTY: WAUKESHA	CROSS SECTIONS: USH 18	SHEET 978	E

FILE NAME : N:\PDS\C3D\13301800\SHEETSPLAN\FINAL_USH18_XSECTION.DWG PLOT DATE : 7/17/2013 10:36 AM PLOT BY : FERK, ANDREW C PLOT NAME : ---------- PLOT SCALE : 1:20_XREF

WISDOT/CADDS SHEET 49

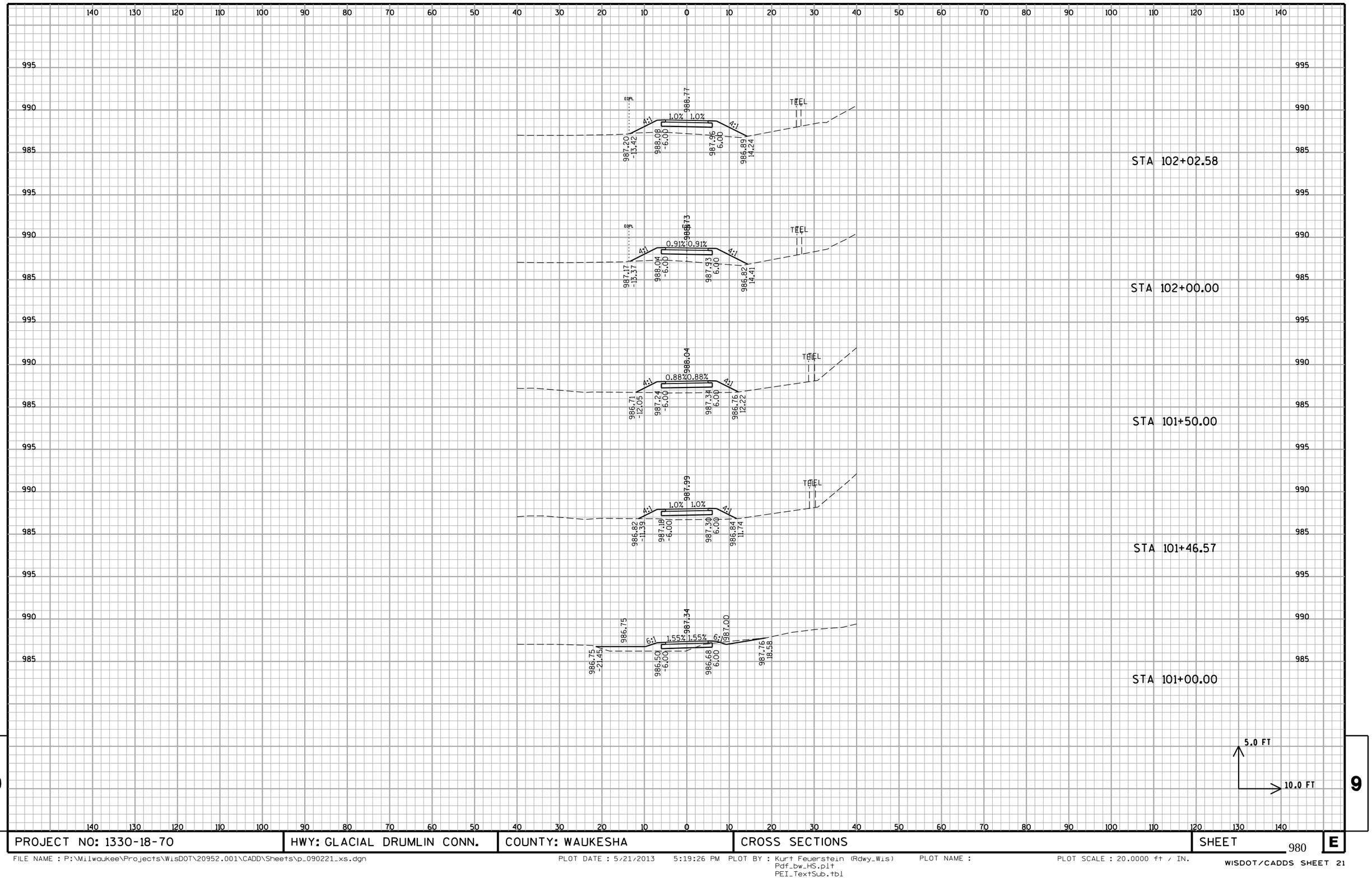


9

9

PROJECT NO: 1330-18-70	HWY: GLACIAL DRUMLIN CONN.	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 979	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_090221_xs.dgn
PLOT DATE : 5/21/2013 5:19:26 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) PLOT NAME :
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21

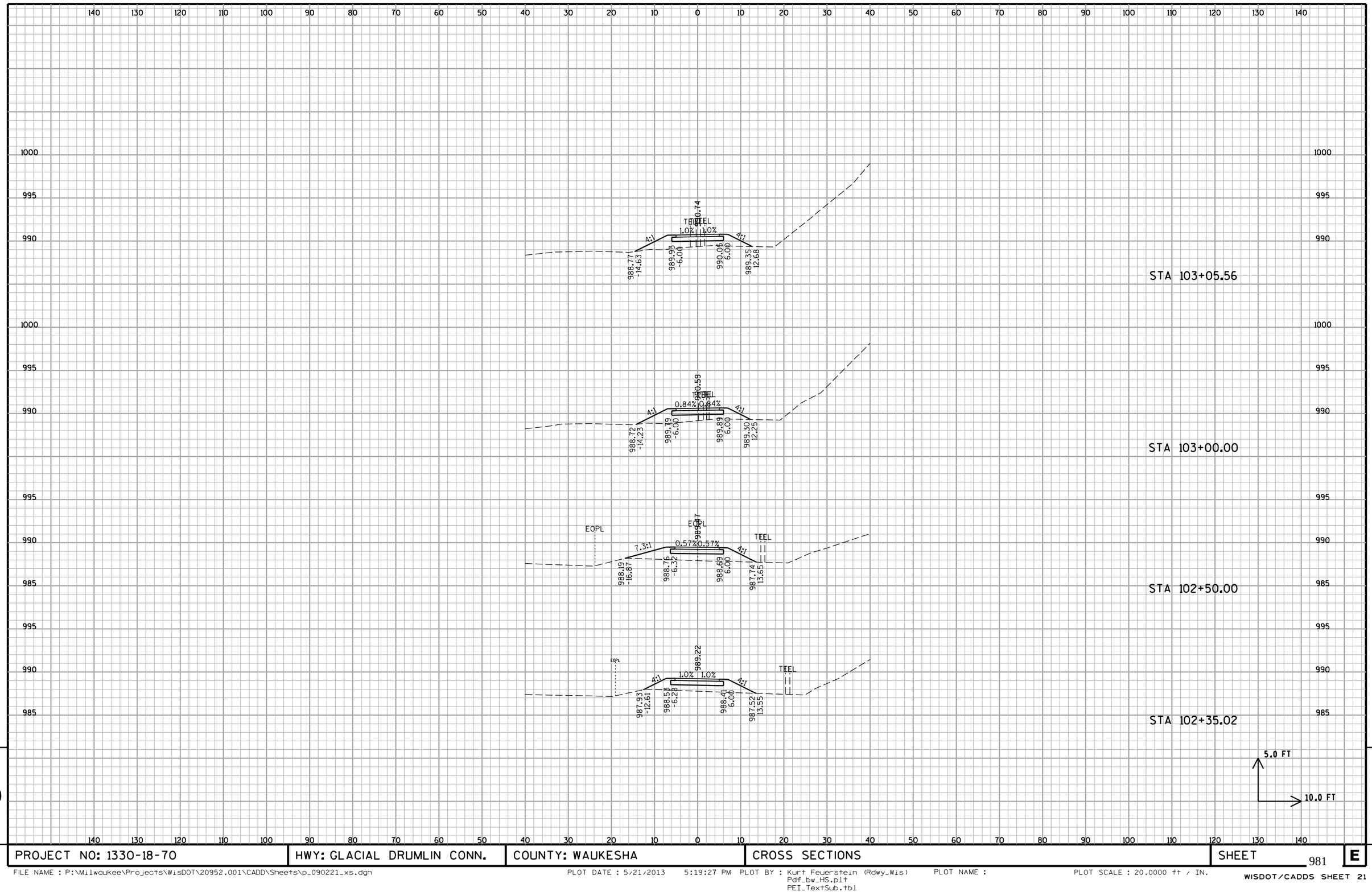


9

9

PROJECT NO: 1330-18-70	HWY: GLACIAL DRUMLIN CONN.	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 980	E

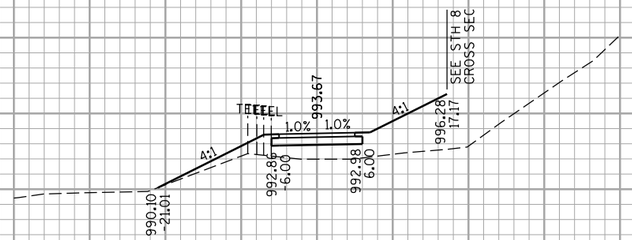
FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_090221_xs.dgn
PLOT DATE : 5/21/2013 5:19:26 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



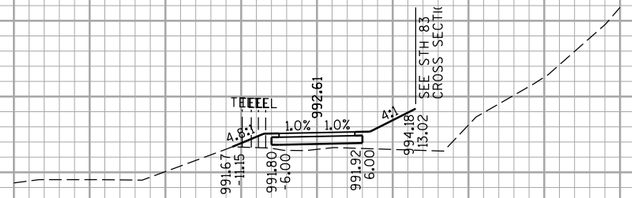
PROJECT NO: 1330-18-70	HWY: GLACIAL DRUMLIN CONN.	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 981	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_090221_xs.dgn
PLOT DATE : 5/21/2013 5:19:27 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis) PLOT NAME : PLOT SCALE : 20.0000 ft / IN.
Pdf_bw_HS.plt
PEI_TextSub.tbl

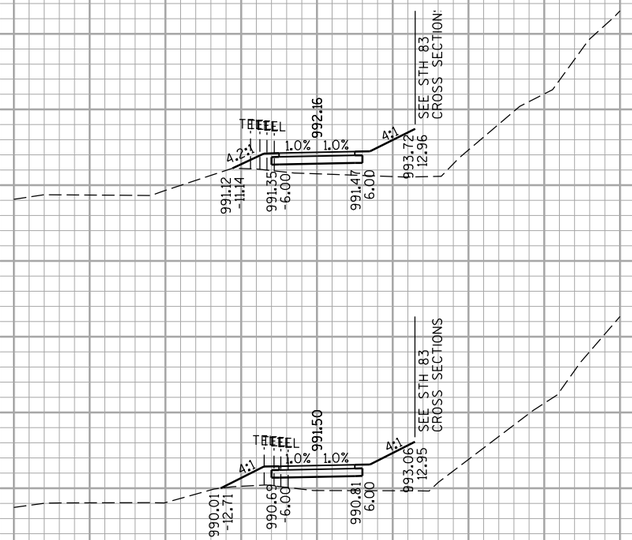
WISDOT/CADDS SHEET 21



STA 103+88.22



STA 103+62.00



STA 103+50.00

STA 103+30.73

5.0 FT

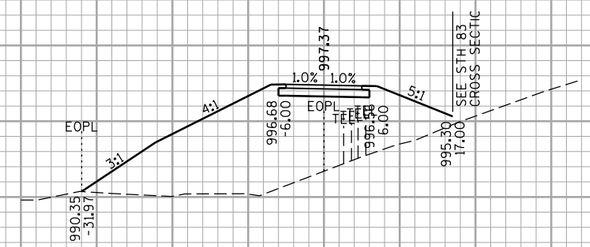
10.0 FT

9

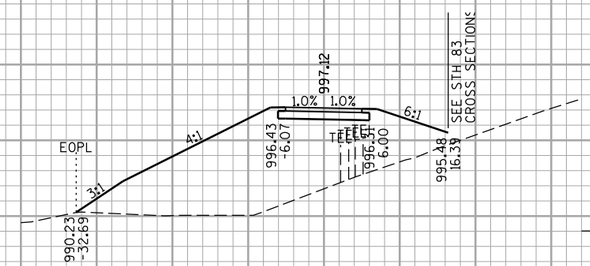
9

PROJECT NO: 1330-18-70	HWY: GLACIAL DRUMLIN CONN.	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 982	E

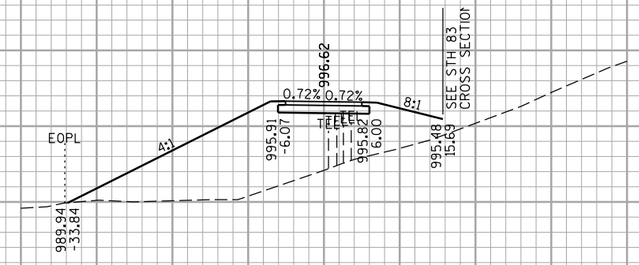
FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_090221_xs.dgn
PLOT DATE : 5/21/2013 5:19:27 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



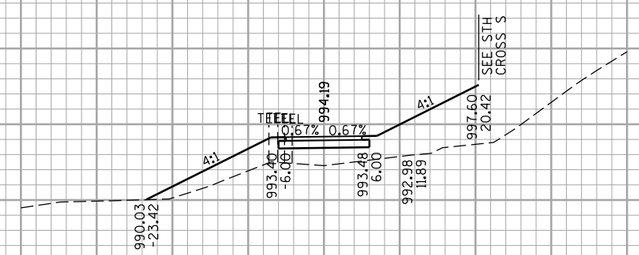
STA 104+65.14



STA 104+60.08



STA 104+50.00



STA 104+00.00

5.0 FT

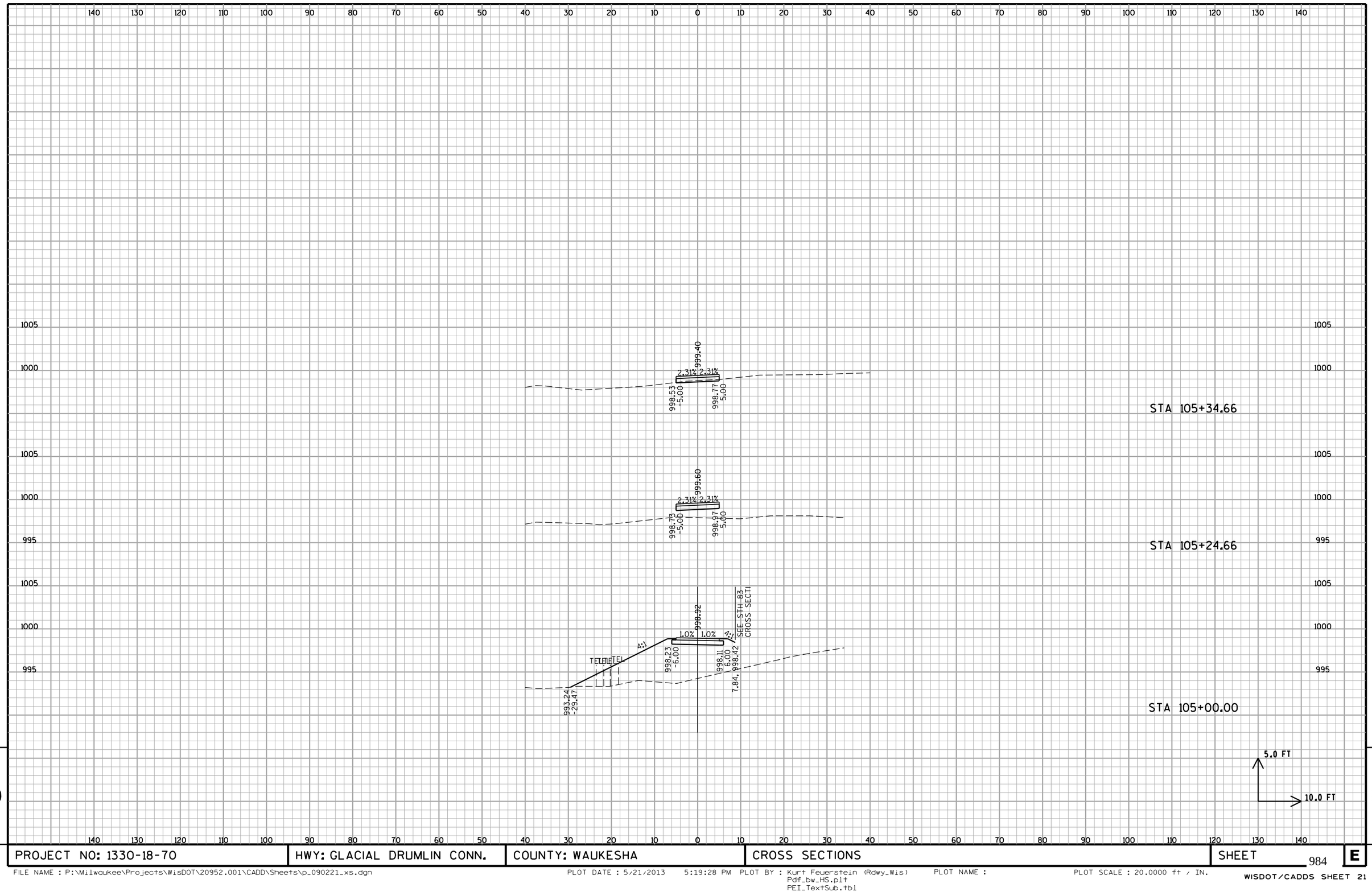
10.0 FT

9

9

PROJECT NO: 1330-18-70	HWY: GLACIAL DRUMLIN CONN.	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 983	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_090221_xs.dgn
PLOT DATE : 5/21/2013 5:19:27 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl
PLOT NAME :
PLOT SCALE : 20.0000 ft / IN.
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 1330-18-70	HWY: GLACIAL DRUMLIN CONN.	COUNTY: WAUKESHA	CROSS SECTIONS	SHEET 984	E

FILE NAME : P:\Milwaukee\Projects\WisDOT\20952.001\CADD\Sheets\p_090221_xs.dgn

PLOT DATE : 5/21/2013 5:19:28 PM PLOT BY : Kurt Feuerstein (Rdwy_Wis)
Pdf_bw_HS.plt
PEI_TextSub.tbl

PLOT NAME :

PLOT SCALE : 20.0000 ft / IN.

WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov