GRE JANUARY 2016

PROJECT ID: 4640-05-71
WITH: N/A

COUNTY: SHEBOYGAN

ORDER OF SHEETS

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

TOTAL SHEETS = 606



22

DESIGN DESIGNATION

A.A.D.T.	2015	=	17,800
A.A.D.T.	2035	=	22,100
D.H.V.	2035	=	2,455
D.D.		=	59/41
T.		=	7.0%
DESIGN SPEED		=	55/40 MPH
ESALS		=	2,861,600

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 (95.56)
- CULVERT (Profile View)

UTILITIES

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SHEBOYGAN FALLS - SHEBOYGAN

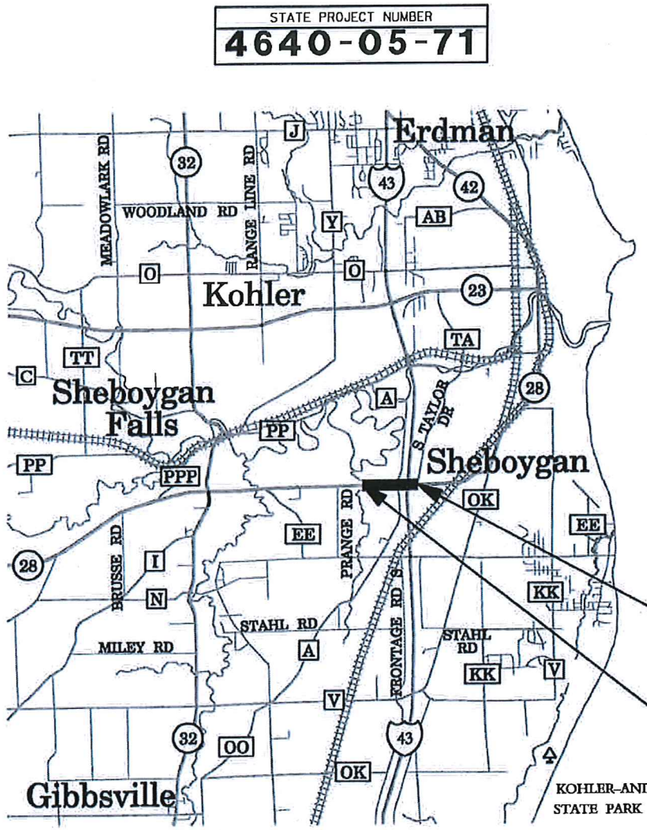
PRANGE ROAD - TAYLOR DRIVE

STH 28

SHEBOYGAN COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4640-05-71	WISC 2016038	1

STATE PROJECT NUMBER
4640-05-71



T-15-N

END PROJECT
STA. 305EB+58.82

T-14-N

BEGIN PROJECT
STA. 280EB+00.00
X = 204664.49
Y = 164485.86

R-22-E R-23-E

LAYOUT
SCALE 0 1/2 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.485 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), SHEBOYGAN COUNTY. NAD 83 (97)

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ORIGINAL PLANS PREPARED BY

AECOM
AECOM
1036 Kepler Drive, Green Bay, WI 54311-8320
T 920.406.3148 www.aecom.com

WISCONSIN
SCOTT R. STEVENSON
E-43799
MENOMONEE FALLS, WI
PROFESSIONAL ENGINEER

7-29-15 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	AECOM
Designer	AECOM
Project Manager	PAUL BRAUER, P.E.
Regional Examiner	
Regional Supervisor	ROB WAGNER, P.E.
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 7-30-2015 (Signature)

E

UTILITY CONTACTS

AT&T WISCONSIN
MS. LISA SUPRENAND
70 E DIVISION STREET
FOND DU LAC, WI 54935
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RSAZAMA@CI.SHEBOYGAN.WI.US

QWEST COMMUNICATIONS
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W329 N4072 LAKELAND DRIVE
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72 PARK AVENUE
SHEBOYGAN, WI 53081
PHONE 920.459.3839
RICHDALE@SHEBOYGANWATER.ORG

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GREEN BAY, WI 54304
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RANDY.ASMAN@DOT.WI.GOV

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801 O'KEEFE ROAD
P.O. BOX 6113
DE PERE, WI 54115-6113
PHONE 920.338.6582
MOLSEN@ATCLLC.COM

SHEBOYGAN FALLS UTILITIES
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375 BUFFALO STREET
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SHEBOYGAN FALLS, WI 53085
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JOEL@SHEBFALLS.COM

TOWN OF WILSON SANITARY DISTRICT NO.1 & 2
MS. GEORGENE LUBACH
5935 SOUTH BUSINESS DRIVE
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CLERK@TOWNWILSON.COM

WISCONSIN POWER AND LIGHT COMPANY
MR. JASON HOGAN
4902 N BILTMORE LANE, SUITE 1000
MADISON, WI 53718
PHONE 608.458.4871
MOBILE 608.395.7395
JASONHOGAN@ALLIANTENERGY.COM

CHARTER COMMUNICATIONS
MR. TOM HARYCKI
2312 CONTINENTAL DRIVE
WESTBEND, WI 53095

KOHLER MUNICIPAL WATER UTILITY VILLAGE OF KOHLER SEWER
MR. BRETT EDGERLE
VILLAGE OF KOHLER - SEWER
319 HIGHLAND DR
KOHLER, WI 53044-1513
PHONE 920.459.3881
BEDGERLE@KOHLERVILLAGE.ORG

SHEBOYGAN FALLS UTILITIES SEWER AND WATER
MR. JERRY BENZSCHAWEL
111 HAMANN DRIVE
SHEBOYGAN FALLS, WI 53085
PHONE 920.467.7901 EXT 301
jbenzschawel@shebfallsdpw.com

WISCONSIN DEPARTMENT OF TRANSPORTATION-LIGHTING
MR. DONALD SCHELL
433 W ST. PAUL AVENUE, SUITE 300
MILWAUKEE, WI 53203-3007
PHONE 414.227.2148
DONALD.SCHELL@DOT.WI.GOV

WISCONSIN PUBLIC SERVICE
MS. LORI BUTRY
700 N ADAMS STREET
P.O. BOX 19001
GREEN BAY, WI 54307-9001
PHONE 920.433.1703
FAX 920.433.1360
LABUTRY@INTEGRYSGROUP.COM

OTHER CONTACTS

DISTRICT DNR AREA LIAISON WISCONSIN DEPARTMENT OF NATURAL RESOURCES
MR JAY SCHIEFELBEIN
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
PHONE 920.662.5407

SHEBOYGAN COUNTY SURVEYOR
MR. ED HARVEY
1211 N 23RD
SHEBOYGAN, WI 53081
PHONE 920.459.3826

DESIGNER CONTACT
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AECOM
1555 N RIVERCENTER DRIVE, SUITE 214
MILWAUKEE, WI 53212
PHONE 414.944.6080
SCOTT.STEVENSON@AECOM.COM

GENERAL NOTES

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

2.NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK.

3.ADJUST TRAFFIC CONTROL DEVICES TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

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

5.EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER MAY MODIFY LOCATIONS AS NEEDED. CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL OR SALVAGED TOPSOIL WHERE REQUIRED.

6.INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

7.RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN TO THE FLANGE LINE OR PAVEMENT EDGE UNLESS OTHERWISE NOTED IN THE PLANS.

8.RESTORE DISTURBED AREAS WITHIN THE RIGHT OF WAY BY DIRECTION OF THE ENGINEER WITH THE FOLLOWING FINISH ITEMS: TOPSOIL, SOD LAWN AND FERTILIZER, OR TOPSOIL, SEED, FERTILIZER, AND MULCH. APPLY FINISHING ITEMS ON DISTURBED AREAS WITHIN 5 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

DIGGERS HOTLINE

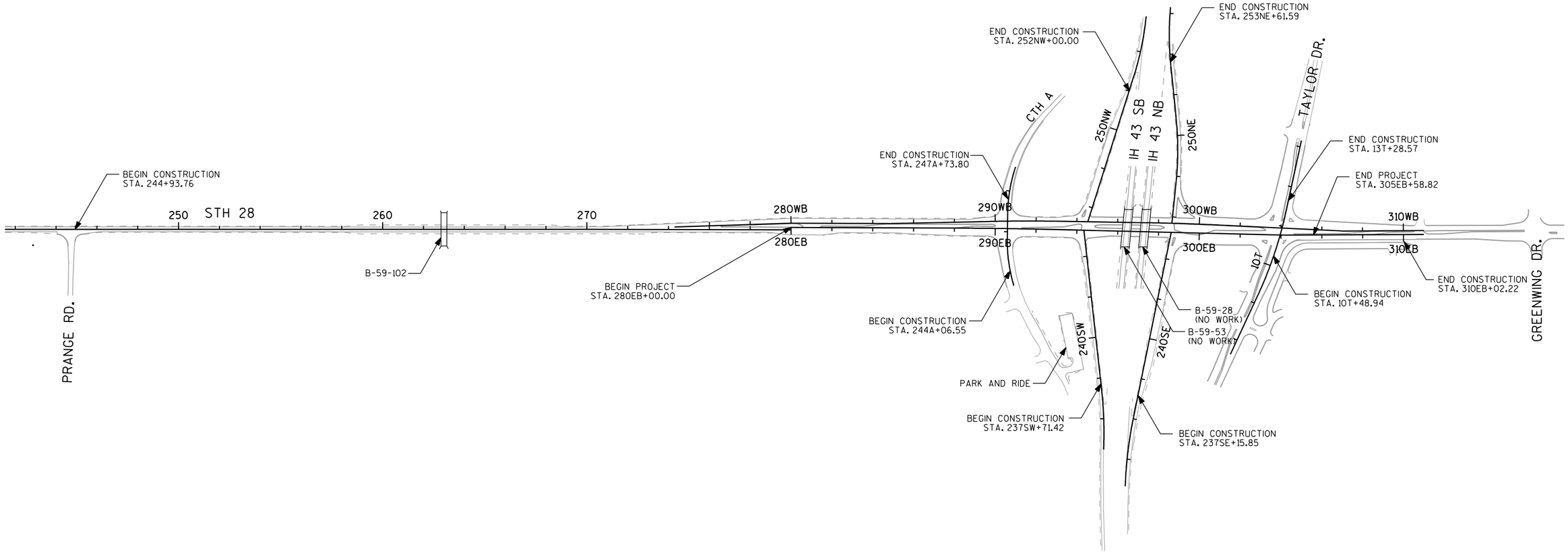
Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

DETAIL SHEET INDEX

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLANS
PAVING DETAILS
EROSION CONTROL
PERMANENT SIGNING
PAVEMENT MARKING PLANS
TRAFFIC CONTROL
ALIGNMENT PLAN

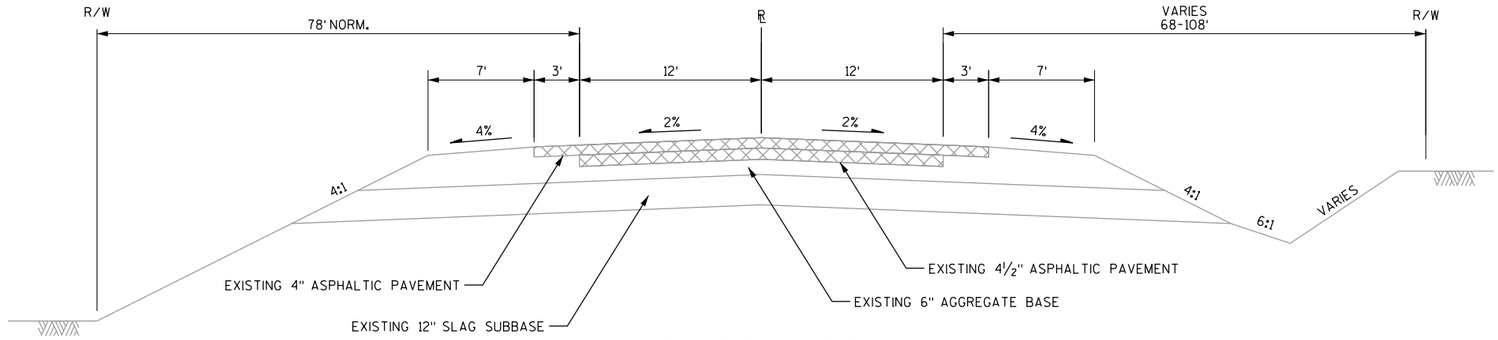
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N



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PROJECT OVERVIEW	SCALE, FEET 0 250 500	SHEET 3	E

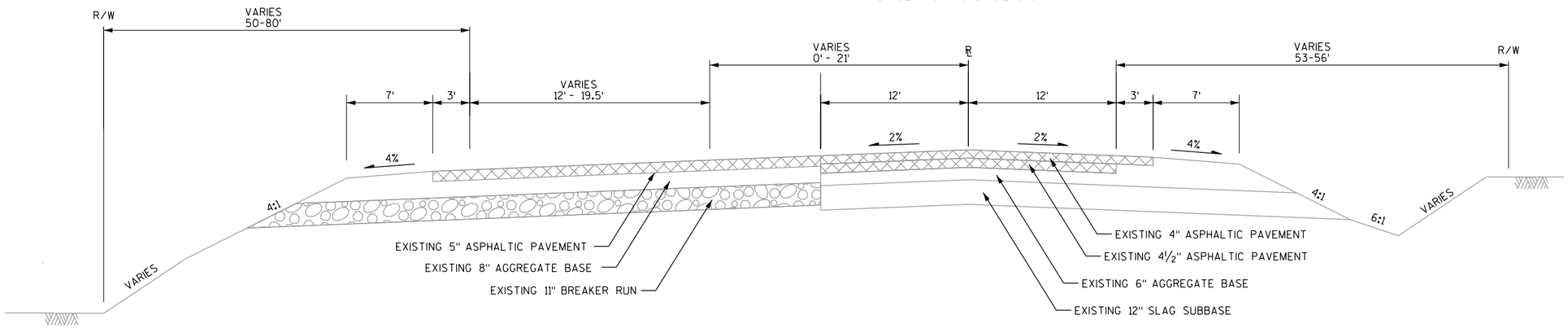
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EXISTING TYPICAL SECTION

STH 28

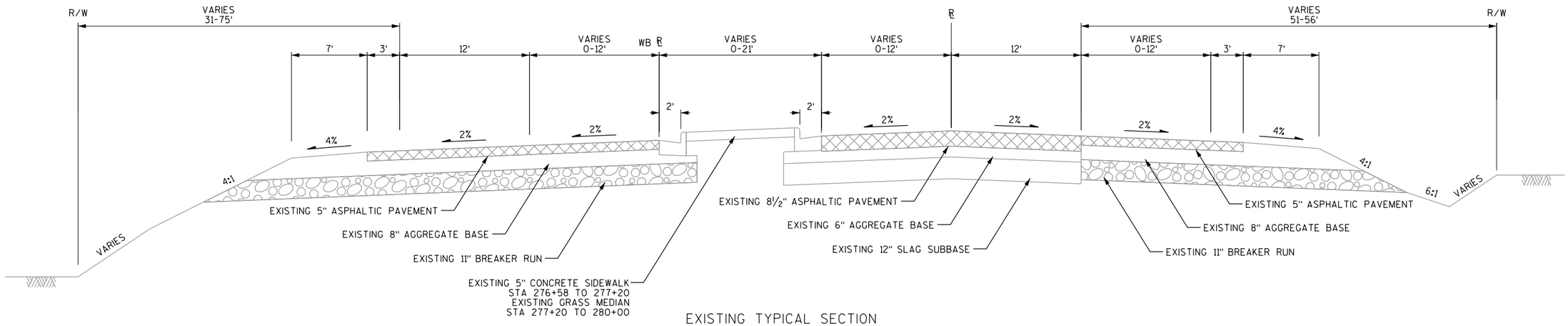
STA. 244+94 TO STA. 270+64



EXISTING TYPICAL SECTION

STH 28

STA. 270+64 TO STA. 276+56

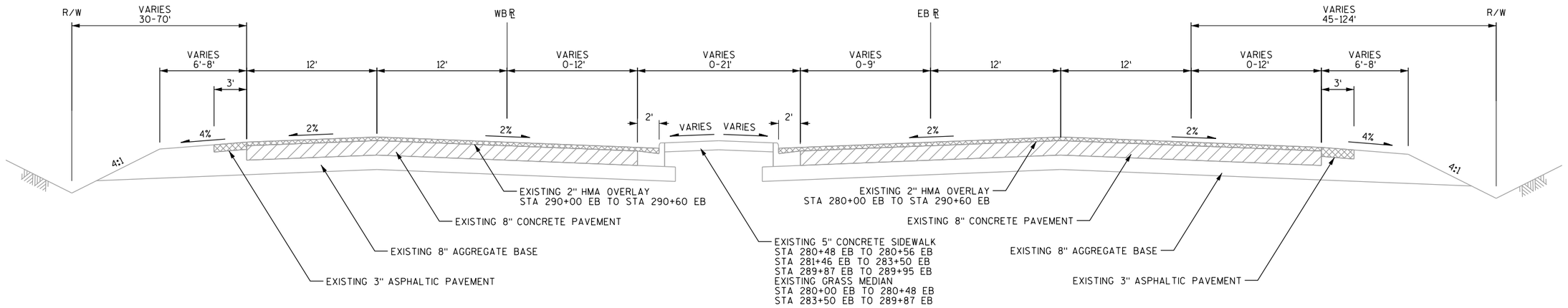


EXISTING TYPICAL SECTION

STH 28

STA. 276+56 TO STA. 280+00

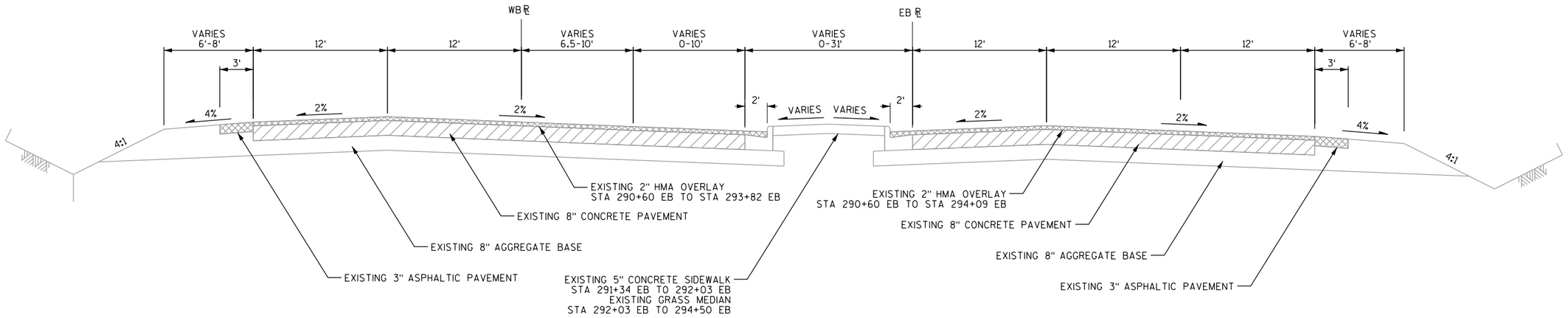
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 4	E



EXISTING TYPICAL SECTION

STH 28

STA. 280EB+00 TO STA. 290EB+60

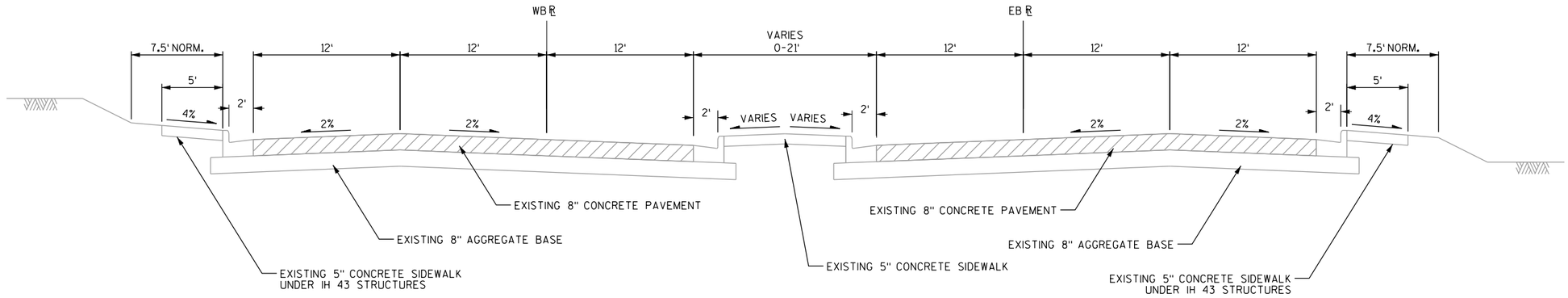


EXISTING TYPICAL SECTION

STH 28

STA. 290EB+60 TO STA. 294EB+50

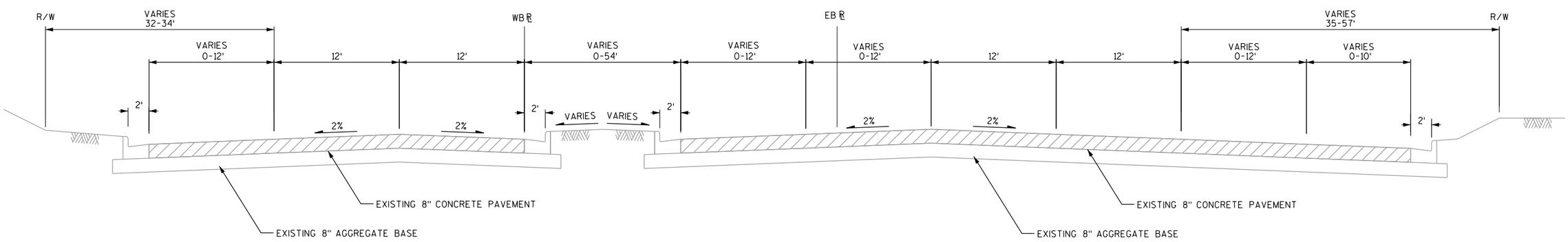
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 5	E



EXISTING TYPICAL SECTION

STH 28

STA. 294EB+50 TO STA. 298EB+76

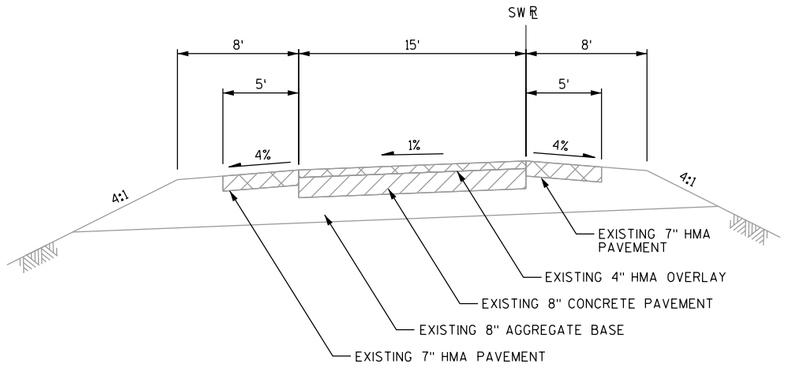


EXISTING TYPICAL SECTION

STH 28

STA. 298+76 EB TO STA. 305+59 EB

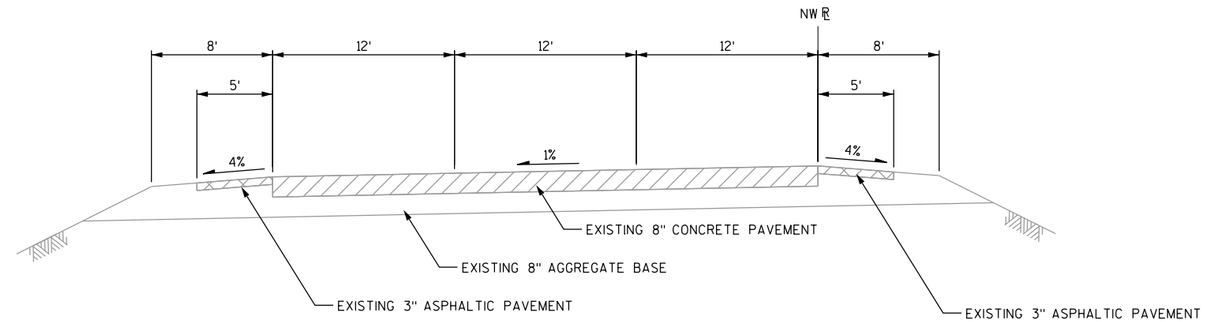
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 6	E



EXISTING TYPICAL SECTION

SW RAMP
(SB ENT RAMP)

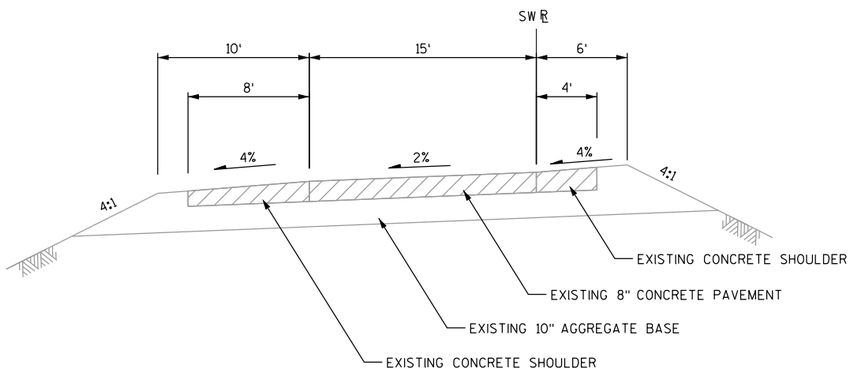
STA. 237SW+71 TO STA. 243SW+16



EXISTING TYPICAL SECTION

NW RAMP
(SB EXIT RAMP)

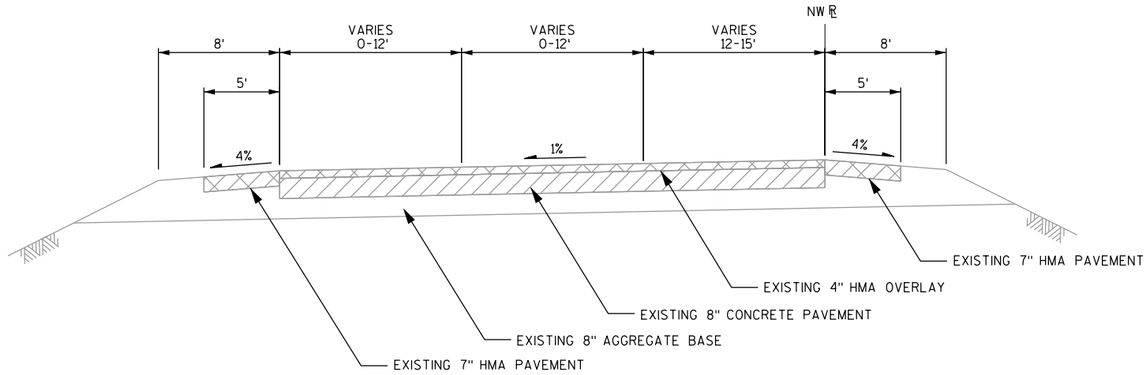
STA. 245+41 NW TO STA. 249+43 NW



EXISTING TYPICAL SECTION

SW RAMP
(SB ENT RAMP)

STA. 243SW+16 TO STA. 245SW+16



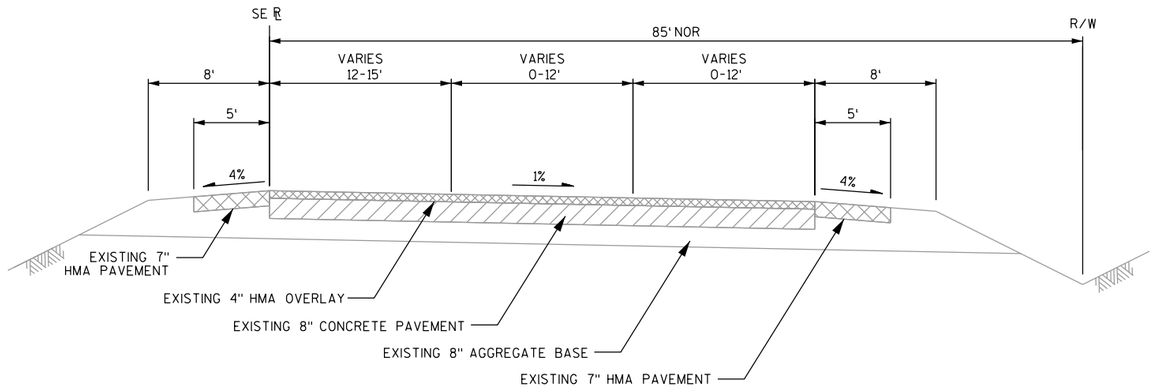
EXISTING TYPICAL SECTION

NW RAMP
(SB EXIT RAMP)

STA. 249NW+43 TO STA. 252NW+00

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 7	E

2

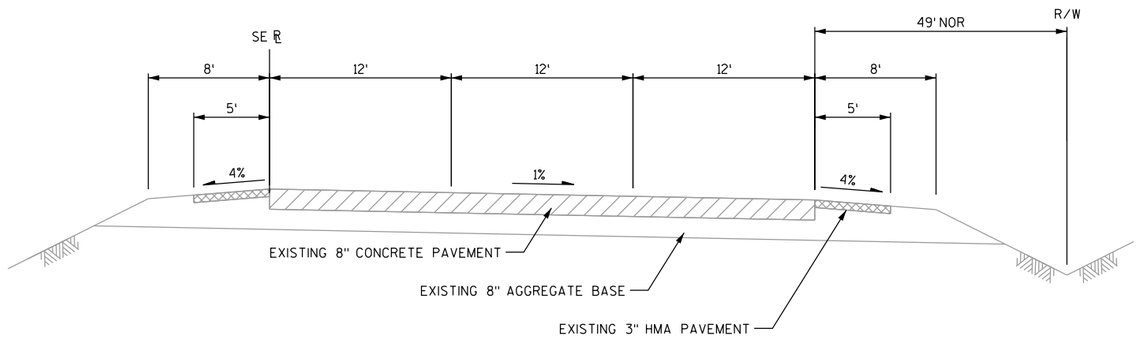


EXISTING TYPICAL SECTION

SE RAMP

(NB EXIT RAMP)

STA. 237SE+16 TO STA. 242SE+25



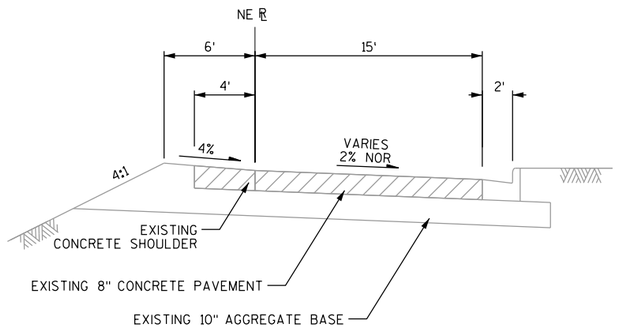
EXISTING TYPICAL SECTION

SE RAMP

(NB EXIT RAMP)

STA. 242SE+25 TO STA. 245SE+20

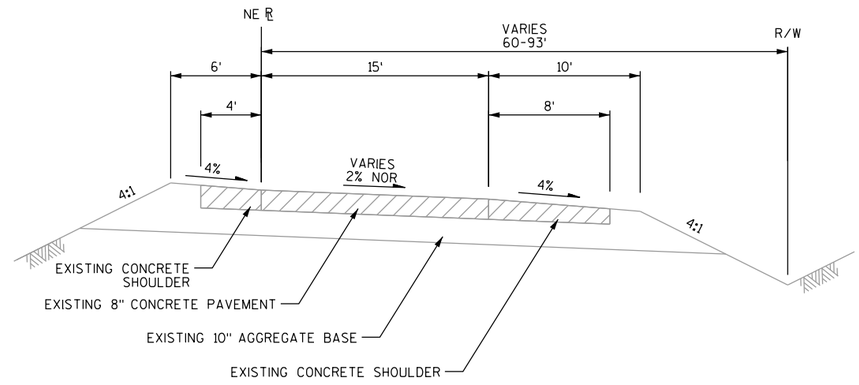
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 8	E



EXISTING TYPICAL SECTION

NE RAMP
(NB ENT RAMP)

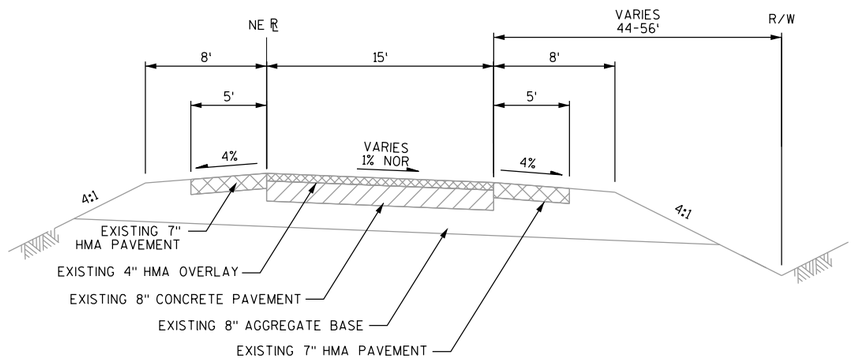
STA. 245NE+81 TO STA. 246NE+99



EXISTING TYPICAL SECTION

NE RAMP
(NB ENT RAMP)

STA. 246NE+99 TO STA. 249NE+35

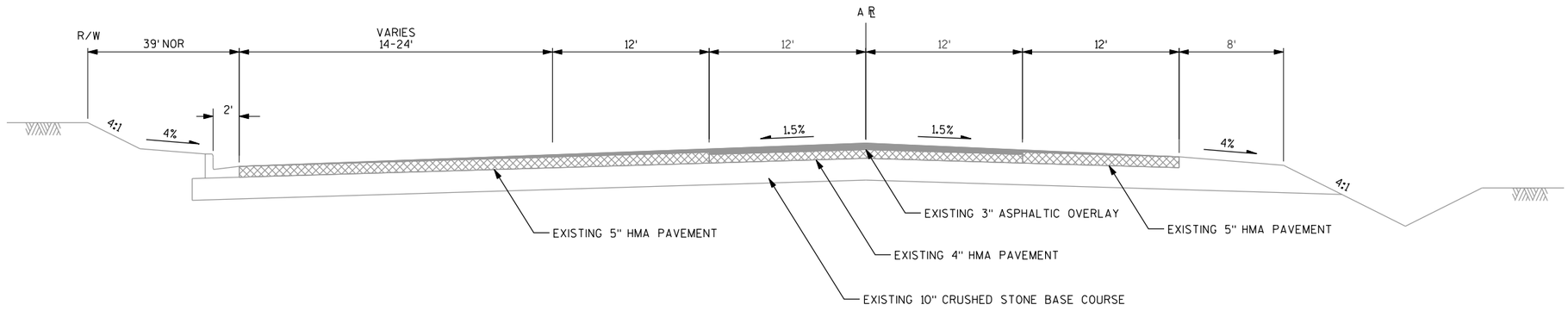


EXISTING TYPICAL SECTION

NE RAMP
(NB ENT RAMP)

STA. 249NE+35 TO STA. 253NE+62

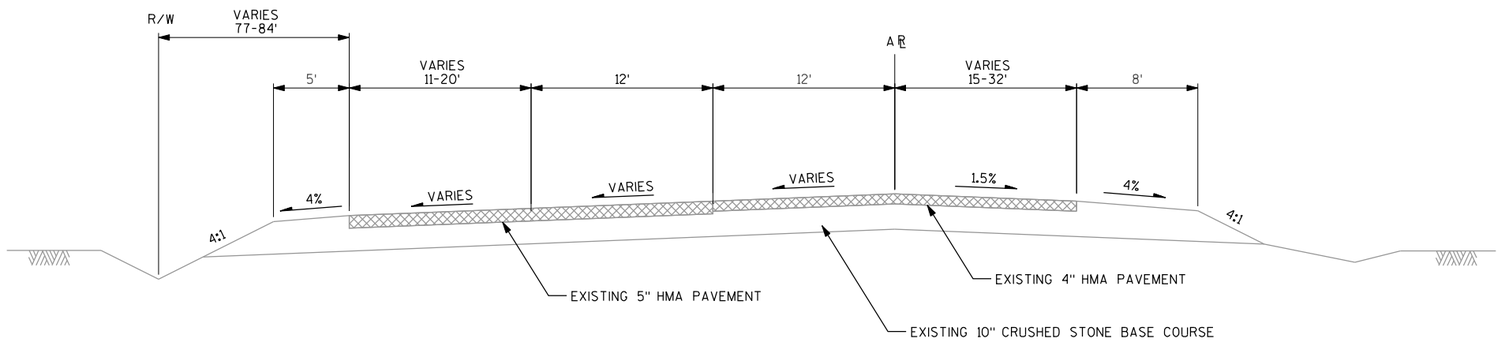
2



EXISTING TYPICAL SECTION

CTH A

STA. 244A+07 TO STA. 246A+34

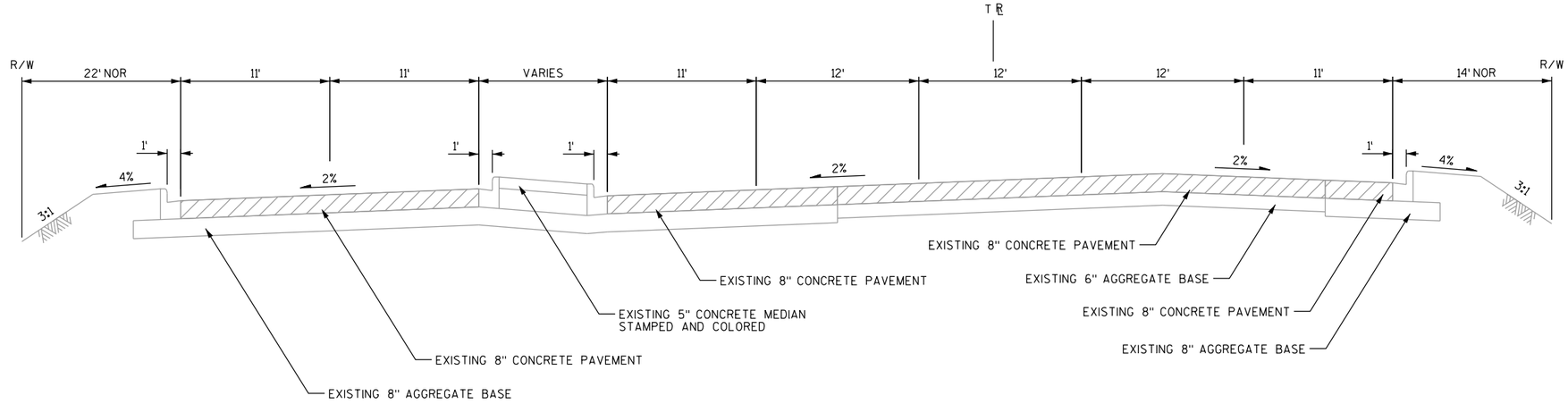


EXISTING TYPICAL SECTION

CTH A

STA. 246A+34 TO STA. 247A+74

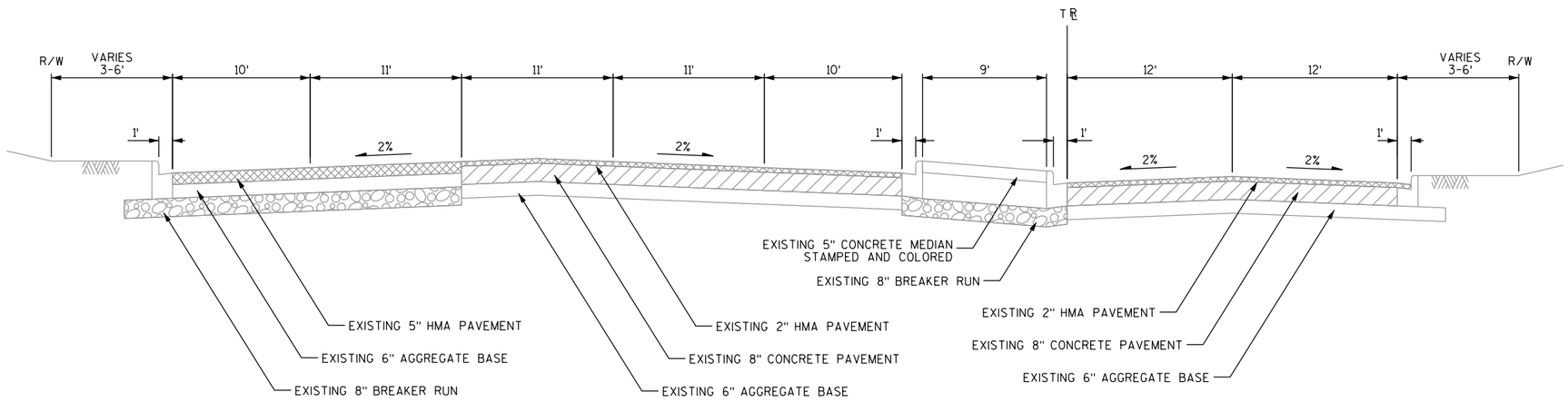
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 10	E



EXISTING TYPICAL SECTION

TAYLOR DRIVE

STA. 10T+49 TO STA 11T+78



EXISTING TYPICAL SECTION

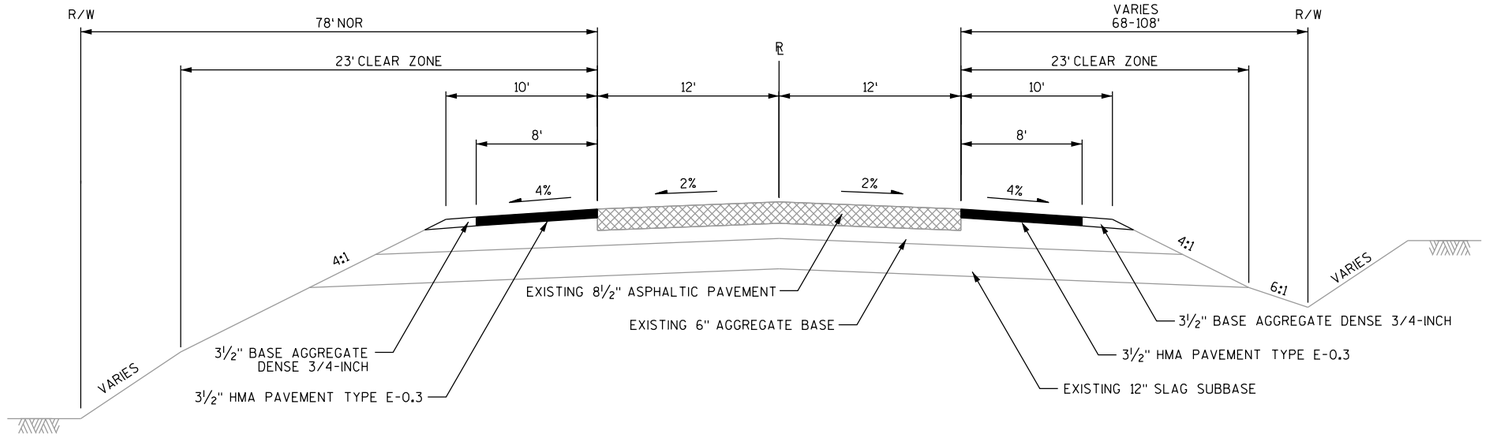
TAYLOR DRIVE

STA. 11T+78 TO STA. 13T+29

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 11	E

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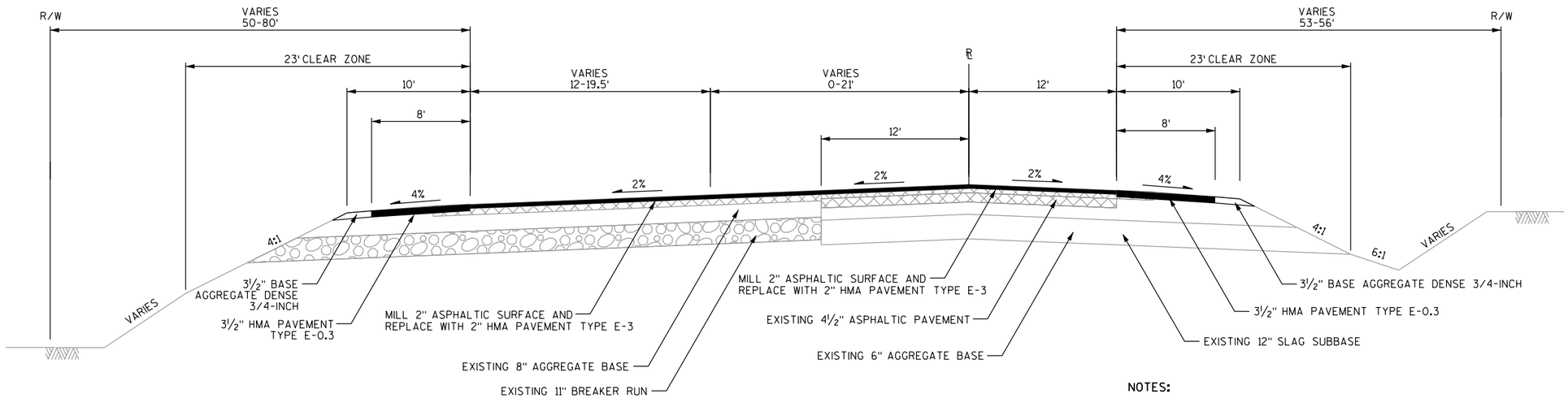
WISDOT/CADDS SHEET 42



FINISHED TYPICAL SECTION

STH 28

STA. 244+94 TO STA. 258+77 LT
STA. 245+77 TO STA. 258+63 RT
STA. 268+39 TO STA. 270+64 LT



FINISHED TYPICAL SECTION

STH 28

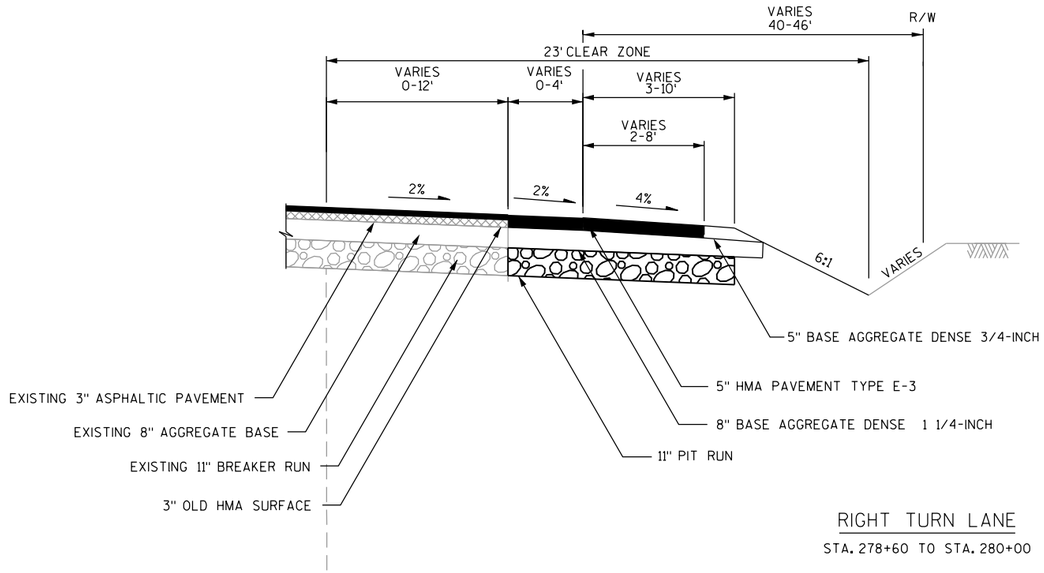
STA. 270+64 TO STA. 276+58 LT
STA. 272+14 TO STA. 276+58 RT

NOTES:

2" HMA PAVEMENT TYPE E-3 SHALL BE CONSTRUCTED IN ONE (1) LAYER. ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

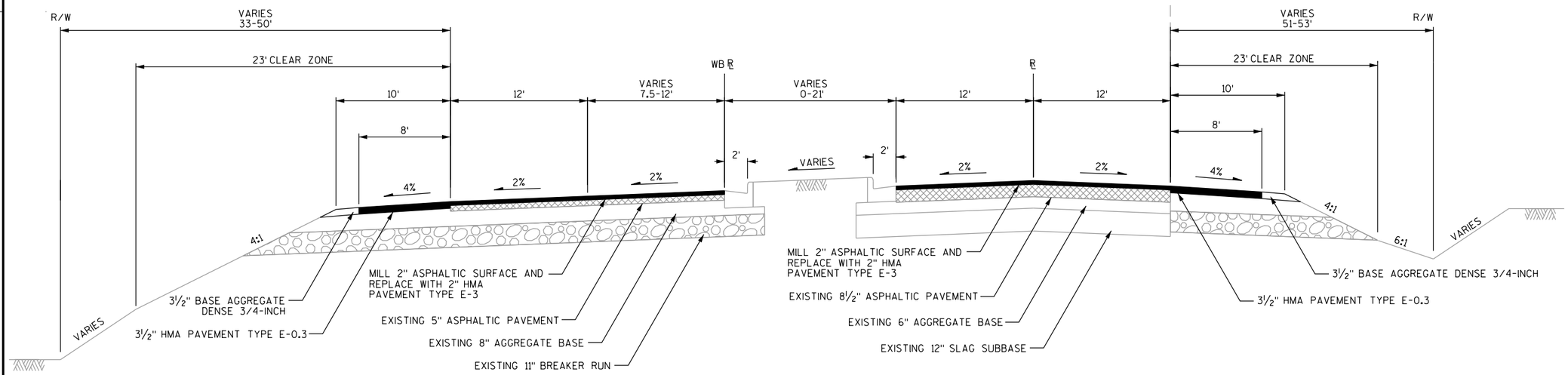
3½" HMA PAVEMENT TYPE E-0.3 SHOULDERS SHALL BE CONSTRUCTED IN ONE (1) LAYER. ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 12	E



RIGHT TURN LANE

STA. 278+60 TO STA. 280+00



FINISHED TYPICAL SECTION

STH 28

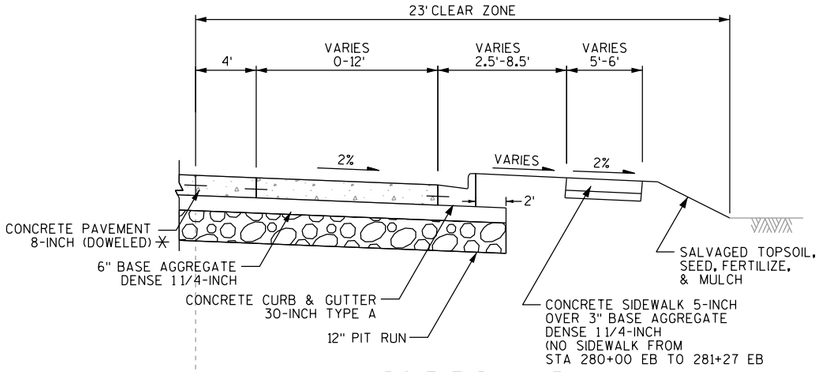
STA. 276+58 TO STA. 280+00

NOTES:

5" HMA PAVEMENT TYPE E-3 SHALL BE CONSTRUCTED IN TWO (2) LAYERS.
THE LOWER LAYER SHALL BE 3 INCHES, AND THE UPPER LAYER SHALL BE 2 INCHES.
ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

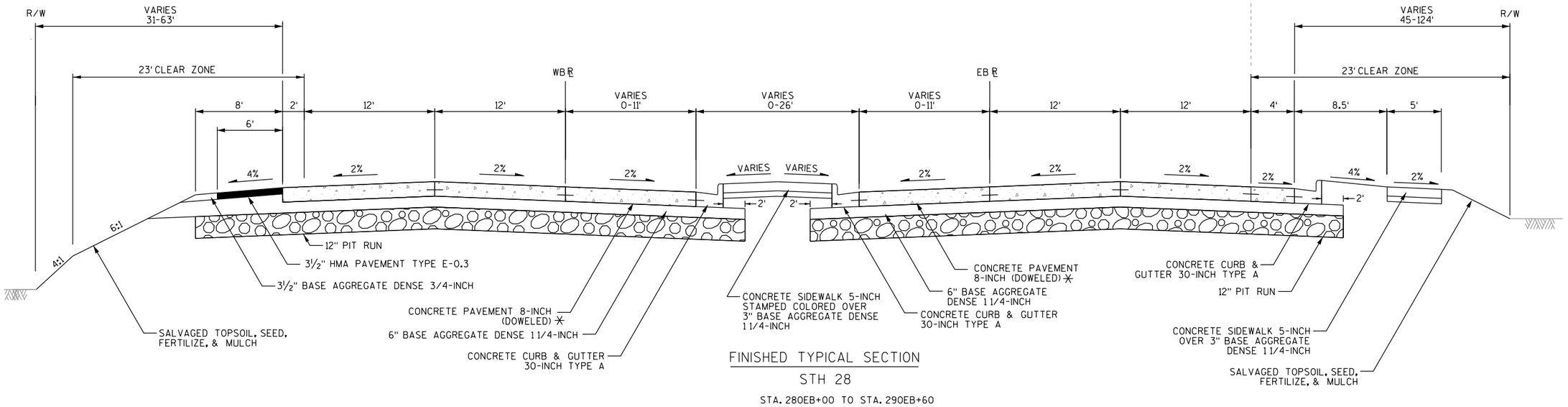
3½" HMA PAVEMENT TYPE E-0.3 SHOULDERS SHALL BE CONSTRUCTED IN ONE (1) LAYER.
ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 13	E



RIGHT TURN LANE

STA. 280EB+00 TO STA. 282EB+50
STA. 285EB+01 TO STA. 290EB+60



FINISHED TYPICAL SECTION

STH 28

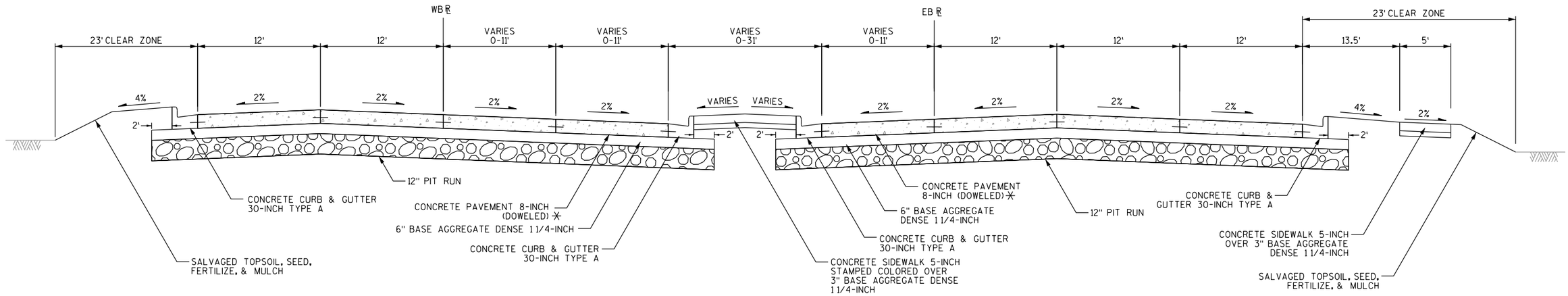
STA. 280EB+00 TO STA. 290EB+60

NOTES:

3½" HMA PAVEMENT TYPE E-0.3 SHOULDERS SHALL BE CONSTRUCTED IN ONE (1) LAYER. ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

(※) CONCRETE SURFACE SHALL BE TINED.

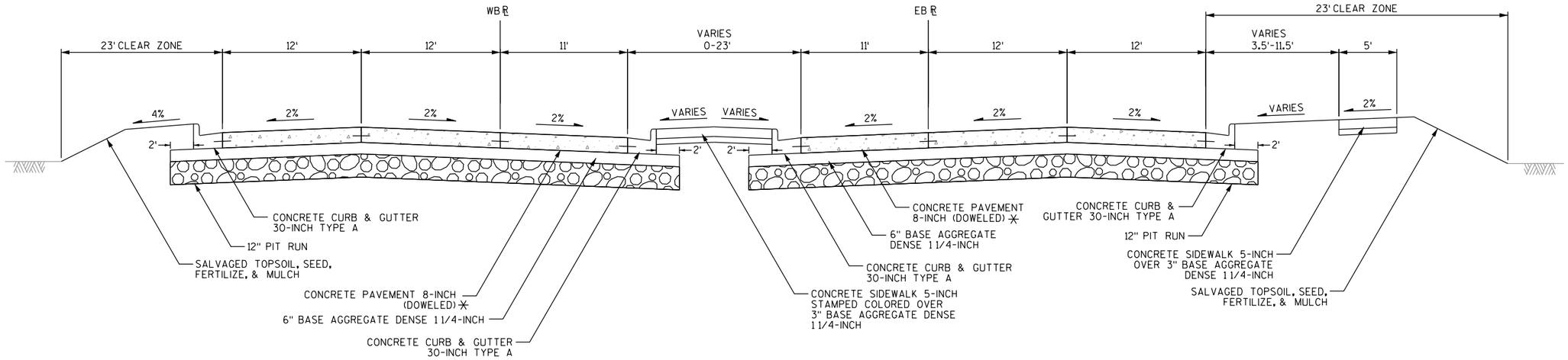
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 14	E



FINISHED TYPICAL SECTION

STH 28

STA. 290EB+60 TO STA. 294EB+50



FINISHED TYPICAL SECTION

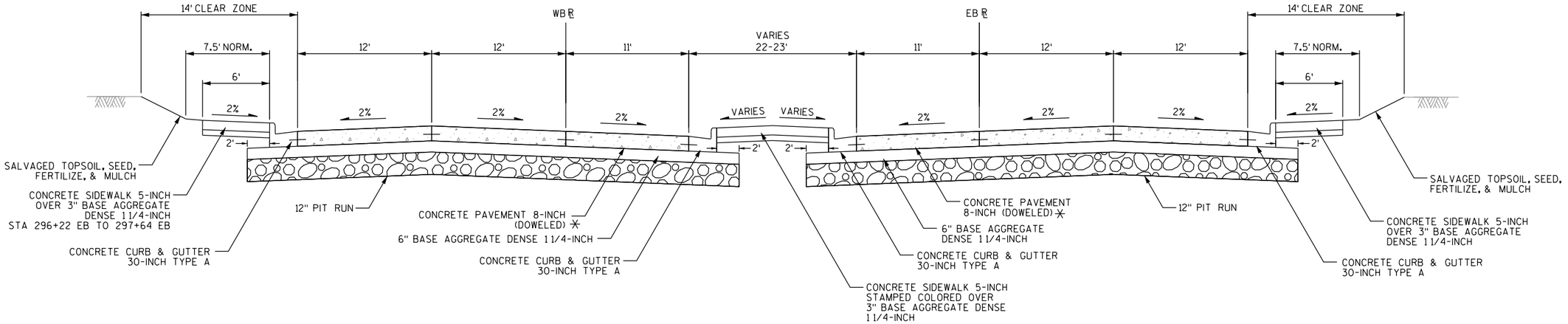
STH 28

STA. 294EB+50 TO STA. 296EB+14

STA. 297EB+56 TO STA. 298EB+75

NOTE: (⚹) CONCRETE SURFACE SHALL BE TINED.

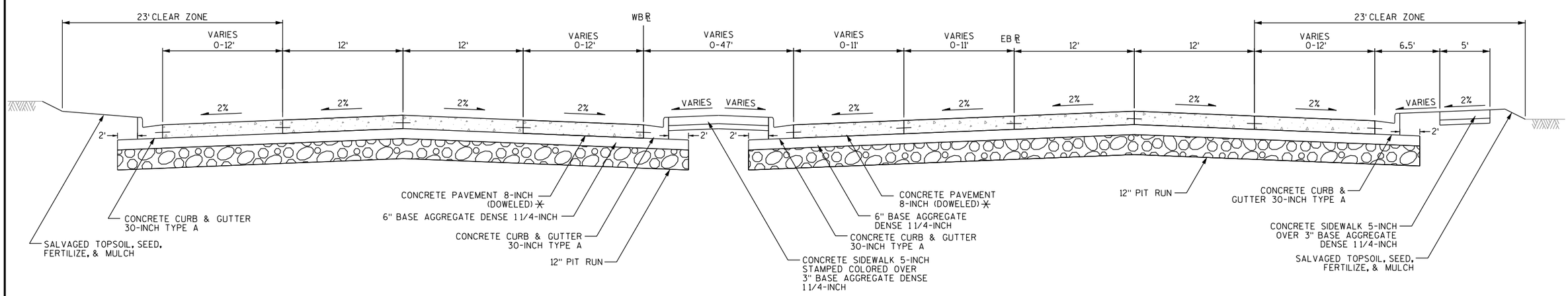
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 15	E



FINISHED TYPICAL SECTION

STH 28

STA. 296EB+14 TO STA. 297EB+56



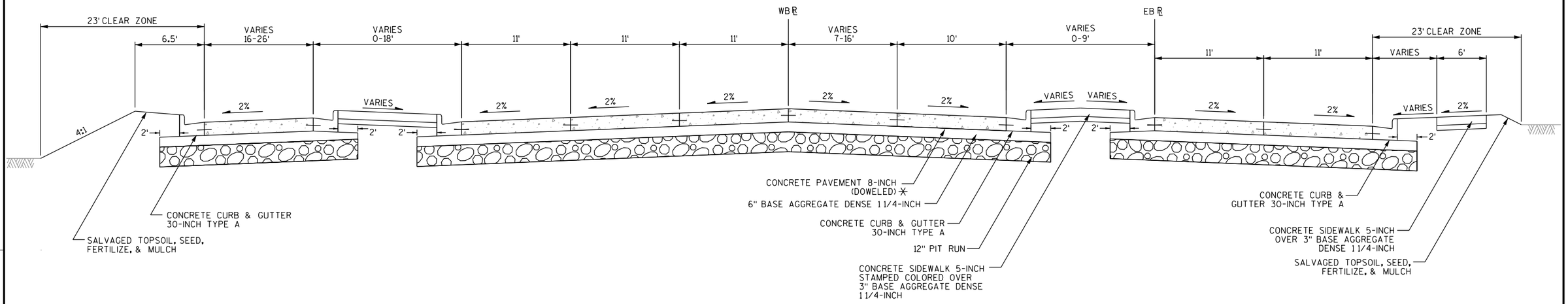
FINISHED TYPICAL SECTION

STH 28

STA. 298EB+75 TO STA. 304EB+03

NOTE: (✕) CONCRETE SURFACE SHALL BE TINED.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 16	E



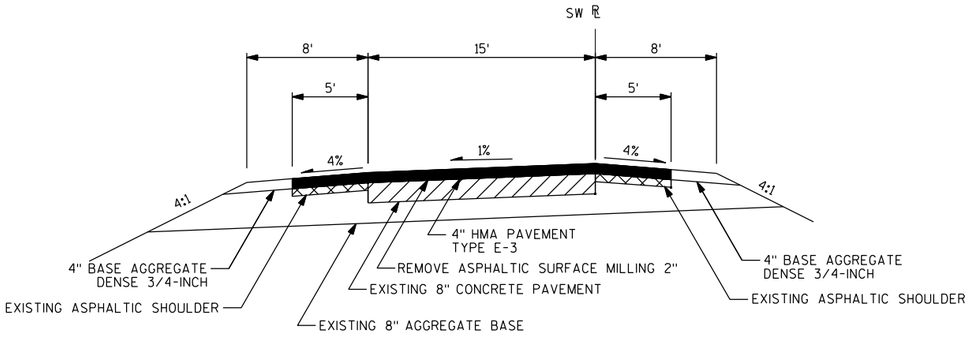
FINISHED TYPICAL SECTION

STH 28

STA. 304EB+03 TO STA. 305EB+59

NOTE: (✳) CONCRETE SURFACE SHALL BE TINED.

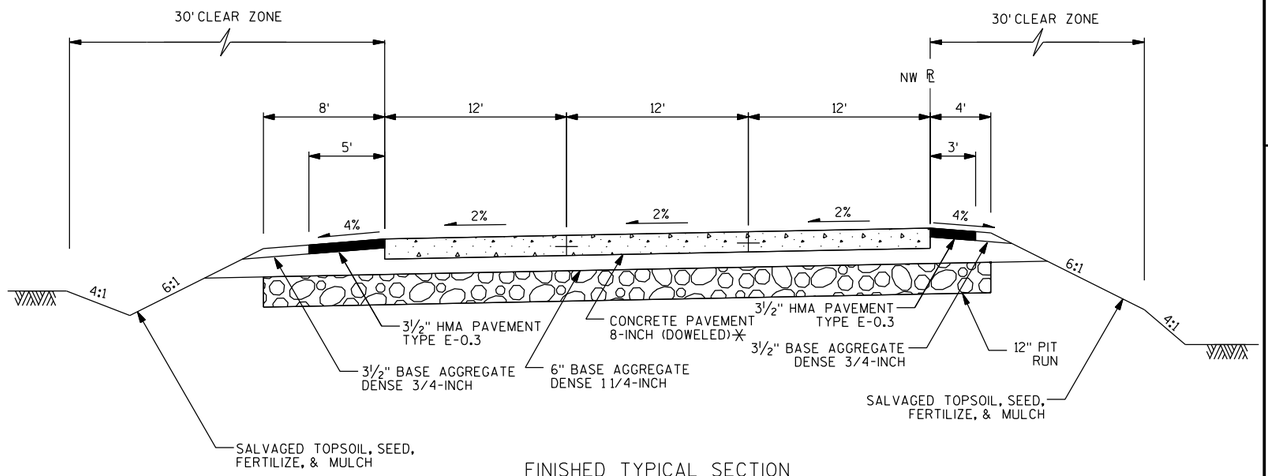
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 17	E



FINISHED TYPICAL SECTION

SW RAMP
(SB ENT RAMP)

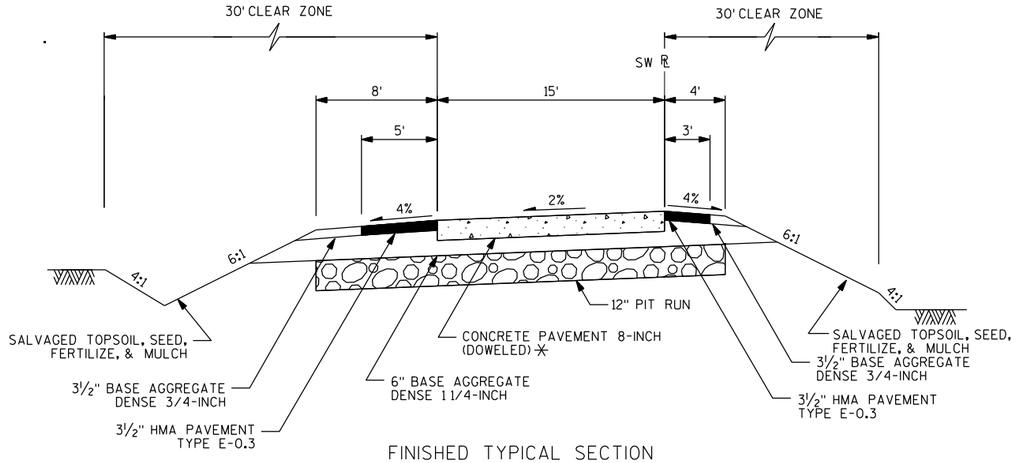
STA. 237SW+71 TO STA. 243SW+16



FINISHED TYPICAL SECTION

NW RAMP
(SB EXIT RAMP)

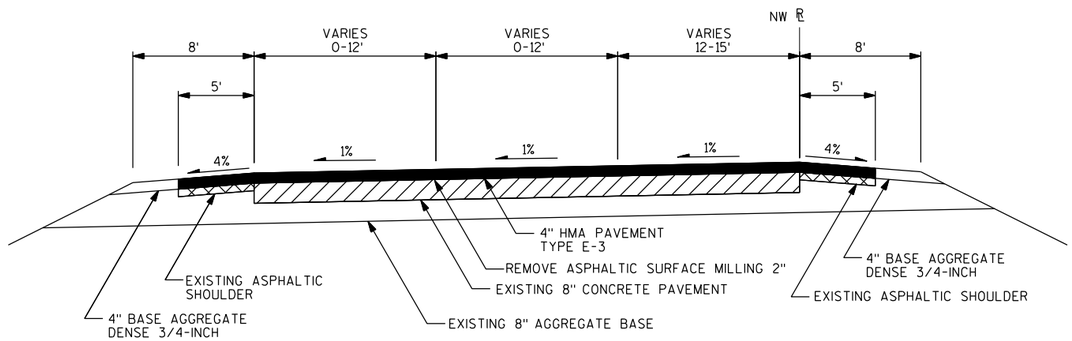
STA. 245NW+54 TO STA. 249NW+43



FINISHED TYPICAL SECTION

SW RAMP
(SB ENT RAMP)

STA. 243SW+16 TO STA. 244SW+92



FINISHED TYPICAL SECTION

NW RAMP
(SB EXIT RAMP)

STA. 249NW+43 TO STA. 252NW+00

NOTES:

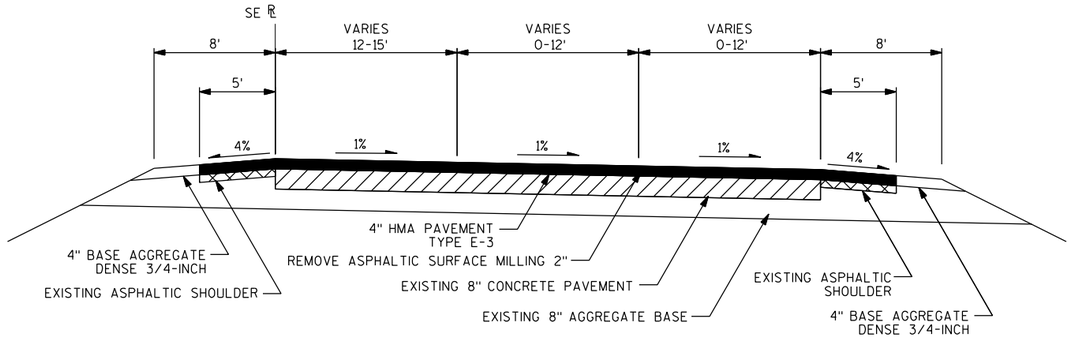
3½" HMA PAVEMENT TYPE E-0.3 SHOULDERS SHALL BE CONSTRUCTED IN ONE (1) LAYER. ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

4" HMA PAVEMENT TYPE E-3 SHALL BE CONSTRUCTED IN TWO (2) LAYERS. THE LOWER LAYER SHALL BE 2.25-INCHES, AND THE UPPER LAYER SHALL BE 1.75-INCHES. ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

(✳) CONCRETE SURFACE SHALL BE TINED.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 18	E

2

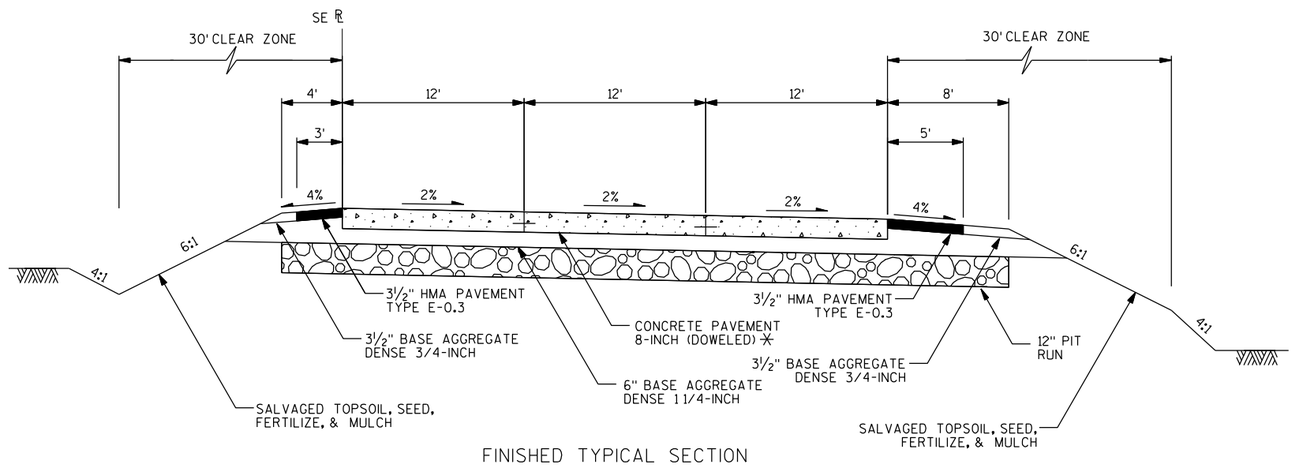


FINISHED TYPICAL SECTION

SE RAMP

(NB EXIT RAMP)

STA. 237SE+16 TO STA. 242SE+25



FINISHED TYPICAL SECTION

SE RAMP

(NB EXIT RAMP)

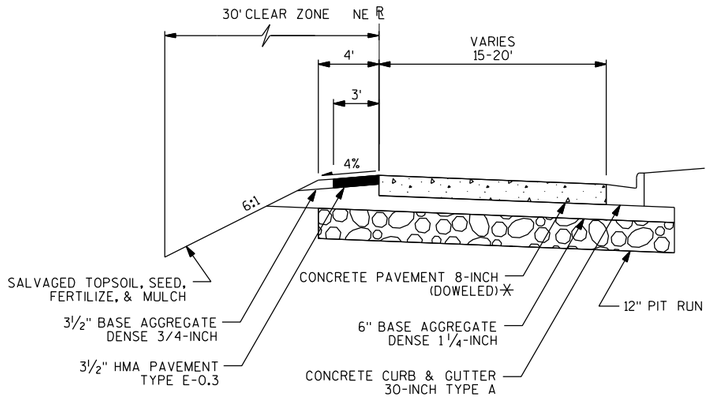
STA. 242SE+25 TO STA. 245SE+08

NOTES:

3½" HMA PAVEMENT TYPE E-0.3 SHOULDERS SHALL BE CONSTRUCTED IN ONE (1) LAYER. ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

4" HMA PAVEMENT TYPE E-3 SHALL BE CONSTRUCTED IN TWO (2) LAYERS. THE LOWER LAYER SHALL BE 2.25-INCHES, AND THE UPPER LAYER SHALL BE 1.75-INCHES. ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

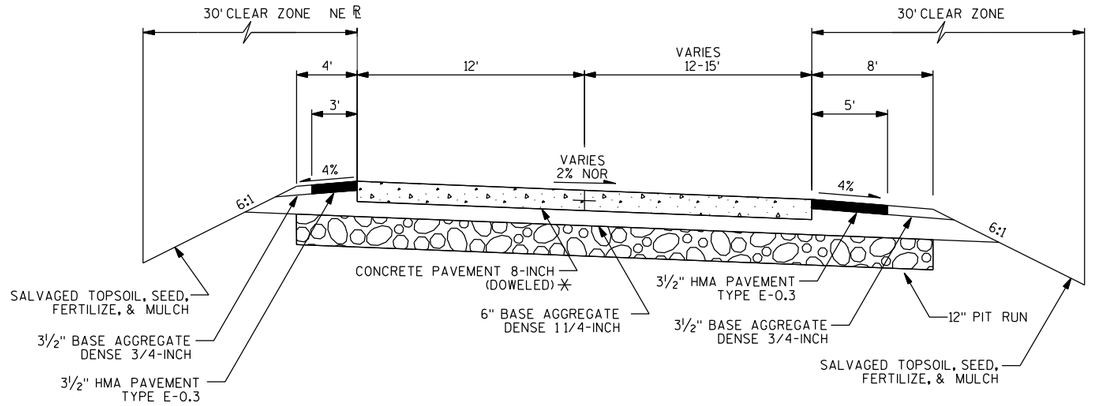
(✳) CONCRETE SURFACE SHALL BE TINED.



FINISHED TYPICAL SECTION

NE RAMP
(NB ENT RAMP)

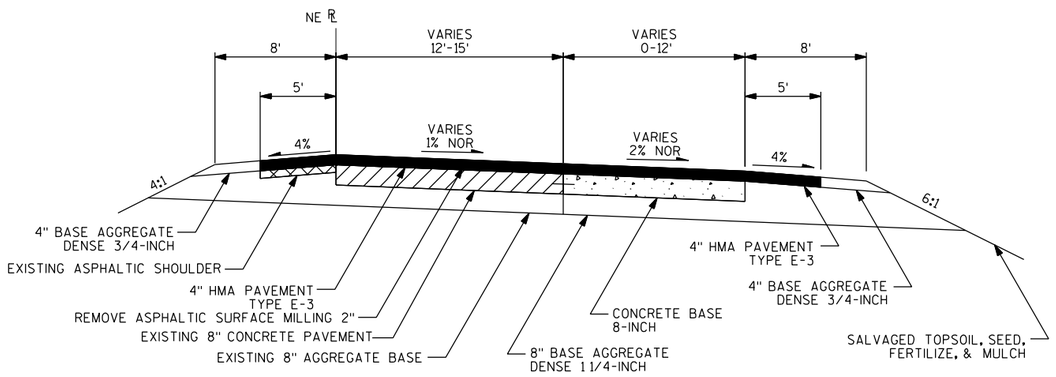
STA. 245NE+95 TO STA. 246NE+56



FINISHED TYPICAL SECTION

NE RAMP
(NB ENT RAMP)

STA. 246NE+56 TO STA. 249NE+36



FINISHED TYPICAL SECTION

NE RAMP
(NB ENT RAMP)

STA. 249NE+36 TO STA. 253NE+62

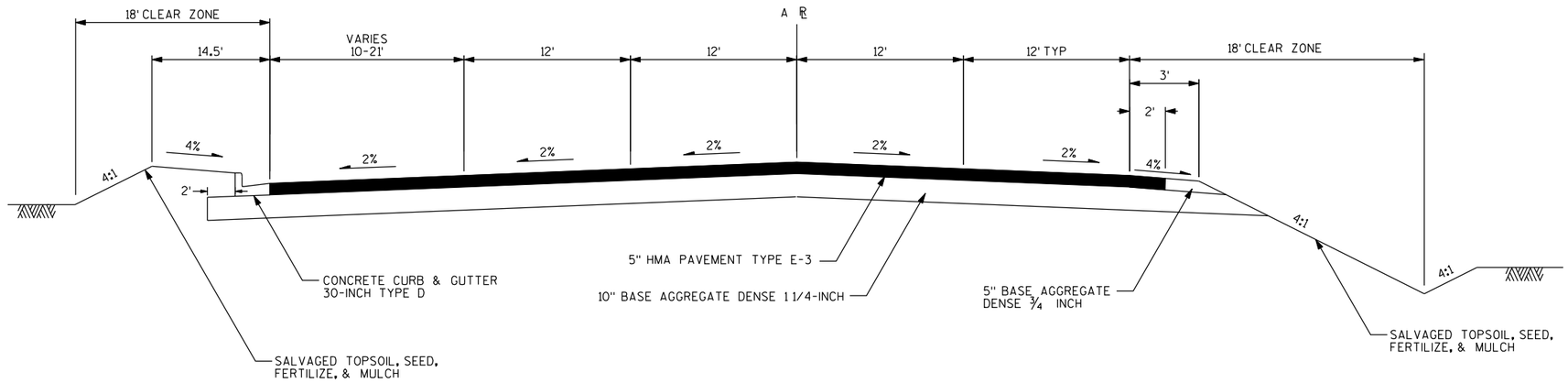
NOTES:

3½" HMA PAVEMENT TYPE E-0.3 SHOULDERS SHALL BE CONSTRUCTED IN ONE (1) LAYER. ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

4" HMA PAVEMENT TYPE E-3 SHALL BE CONSTRUCTED IN TWO (2) LAYERS. THE LOWER LAYER SHALL BE 2.25-INCHES, AND THE UPPER LAYER SHALL BE 1.75-INCHES. ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-58-28.

(*) CONCRETE SURFACE SHALL BE TINED.

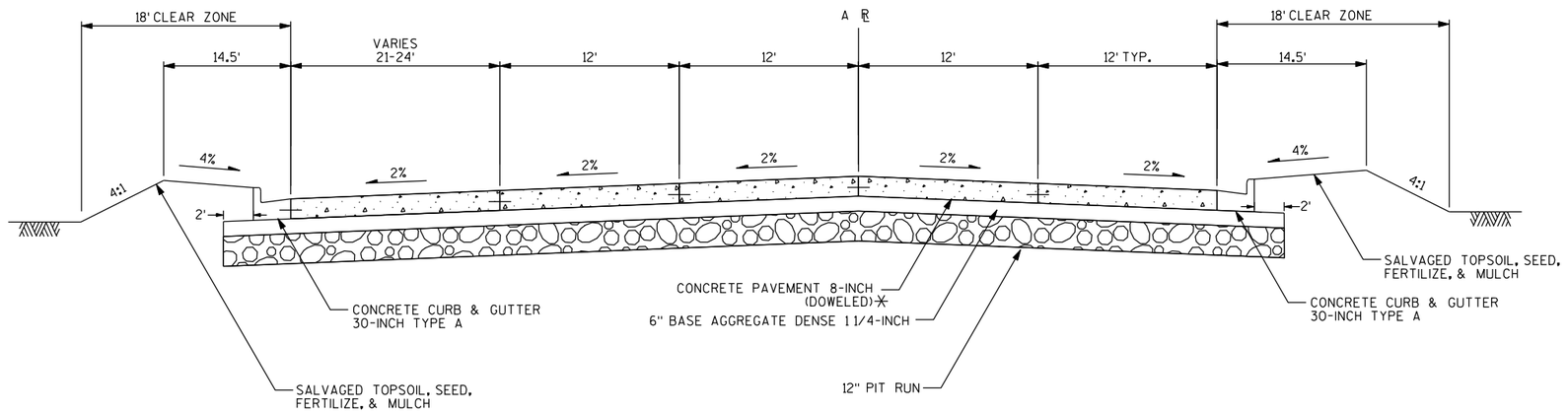
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 20	E



FINISHED TYPICAL SECTION

CTH A

STA. 244A+07 TO STA. 245A+26



FINISHED TYPICAL SECTION

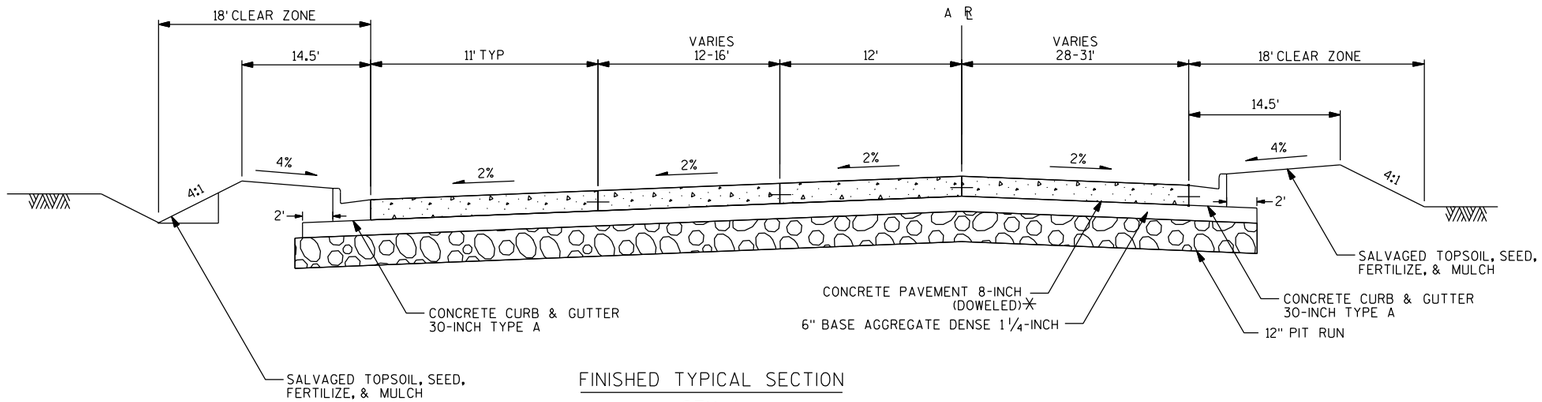
CTH A

STA. 245A+26 TO STA. 245A+80

NOTES:

5" HMA PAVEMENT TYPE E-3 SHOULDERS SHALL BE CONSTRUCTED IN ONE (1) LAYER.
ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-64-28.
(X) CONCRETE SURFACE SHALL BE TINED.

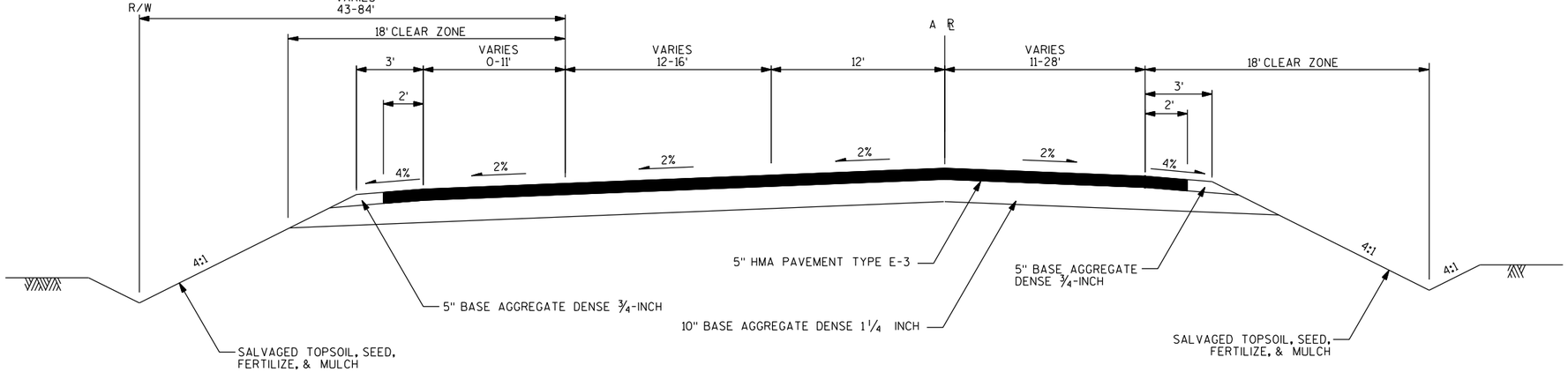
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 21	E



FINISHED TYPICAL SECTION

CTH A

STA. 246A+34 TO STA. 247A+31



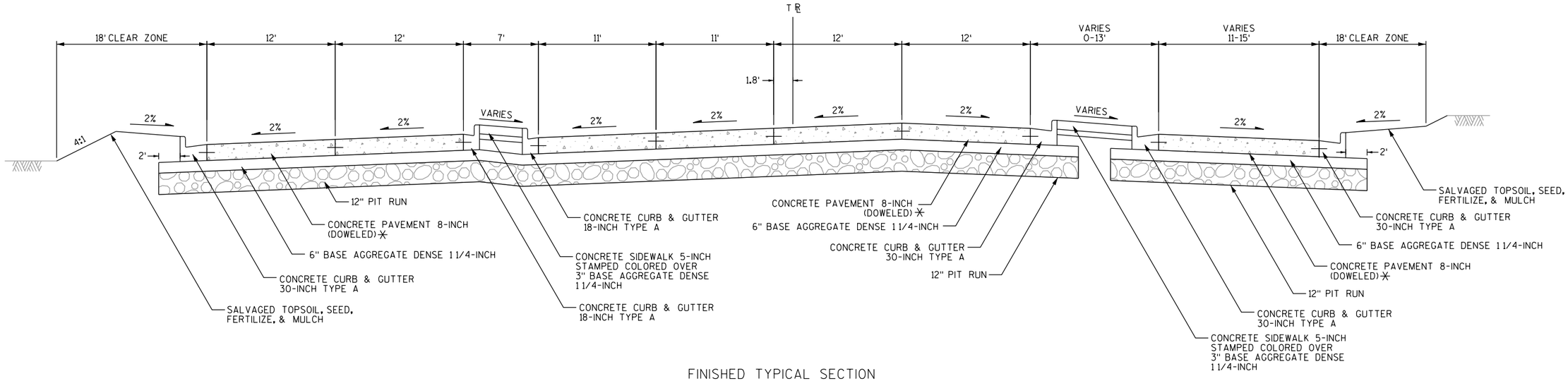
FINISHED TYPICAL SECTION

CTH A

STA. 247A+31 TO STA. 247A+74

NOTES:
3 1/2" HMA PAVEMENT TYPE E-3 SHOULDERS SHALL BE CONSTRUCTED IN ONE (1) LAYER.
5" HMA PAVEMENT TYEP E-3 SHALL BE CONSTRUCTED IN TWO (2) LAYERS. THE LOWER LAYER SHALL BE 3.25-INCHES AND THE UPPER LAYER SHALL BE 1.75-INCHES.
ASPHALTIC MATERIAL FOR PLANT MIXES SHALL BE PG-64-28.
(X) CONCRETE SURFACE SHALL BE TINED.

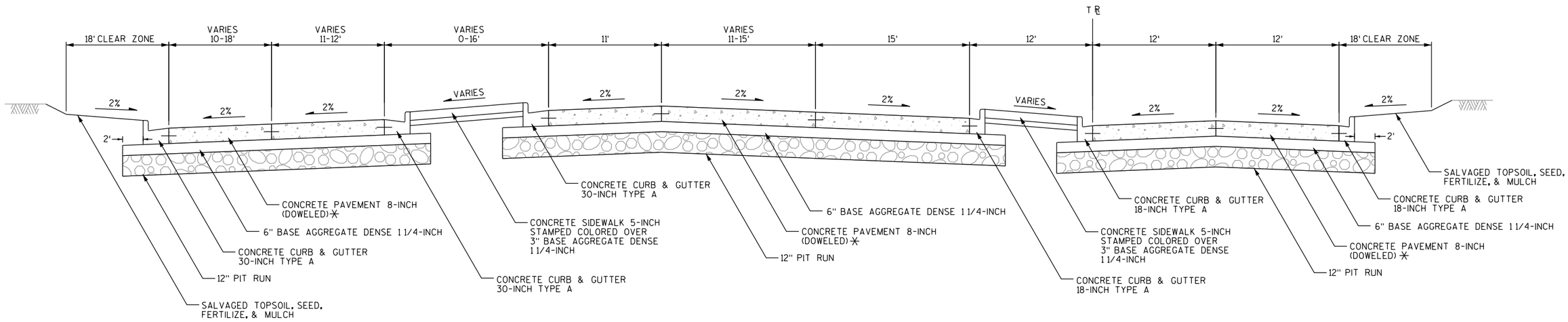
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 22	E



FINISHED TYPICAL SECTION

TAYLOR DRIVE

STA. 10T+49 TO STA. 11T+78



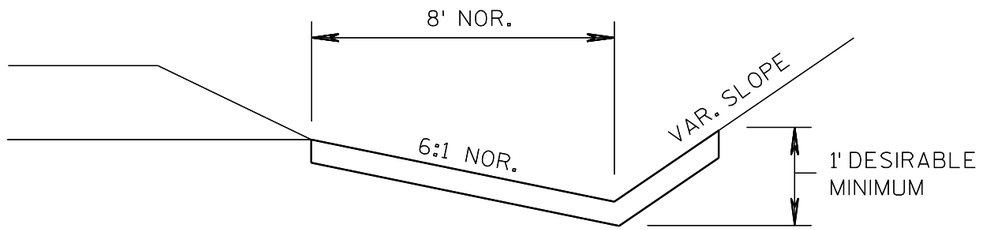
FINISHED TYPICAL SECTION

TAYLOR DRIVE

STA. 11T+78 TO STA. 13T+29

NOTE: (✳) CONCRETE SURFACE SHALL BE TINED.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TYPICAL SECTIONS	SCALE: NTS	SHEET 23	E

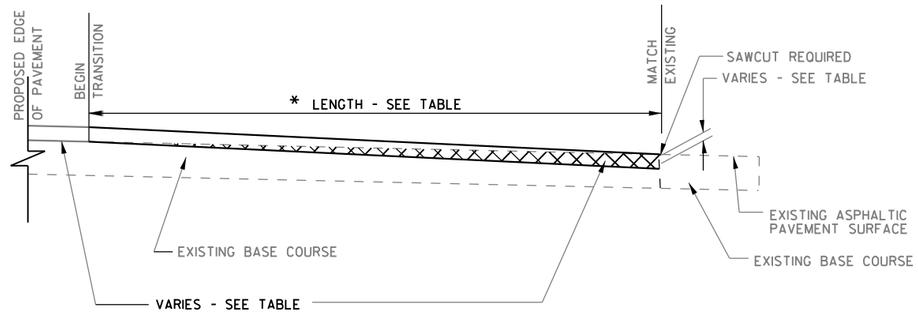


EROSION MAT DETAIL FOR DITCHES

RUNOFF COEFFICIENT TABLE

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

TOTAL PROJECT AREA = 13.68 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 13.68 ACRES

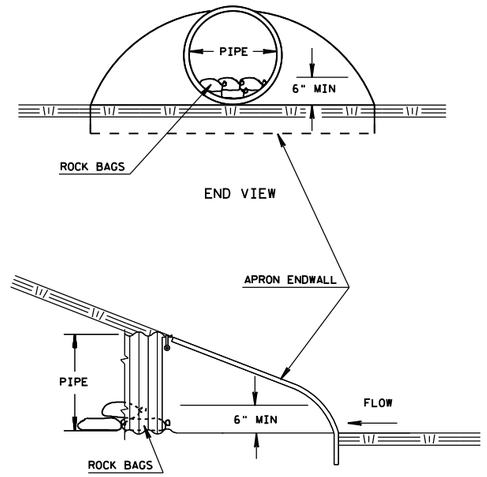


REMOVING ASPHALTIC SURFACE, BUTT JOINT

BUTT JOINT TRANSITION
NTS

BUTT JOINTS

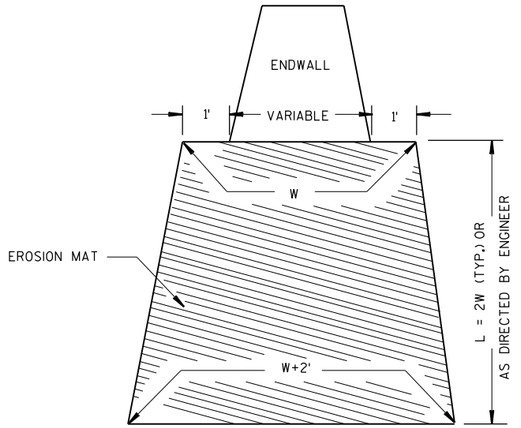
STATION	LOCATION	LENGTH	THICKNESS
270+64	STH 28	50'	2"
237SW+71	SB ON-RAMP	100'	4"
252NW+00	SB OFF-RAMP	100'	4"
237SE+16	NB OFF-RAMP	100'	4"
253NE+62	NB ON-RAMP	100'	4"
	PARK & RIDE	25'	4"



CULVERT PIPE CHECKS

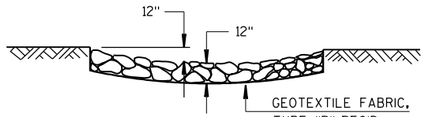
CULVERT PIPE CHECKS

STATION	LOCATION	
273EB+81	LT	EXISTING
276EB+14	RT	EXISTING
P3	LT	PROPOSED
P42	LT	PROPOSED
P43	LT	PROPOSED
P5	LT	PROPOSED
P6	LT	PROPOSED
P9	LT	PROPOSED
P8	LT	PROPOSED
P44	RT	PROPOSED
P48	RT	PROPOSED
P45	RT	PROPOSED
P13	RT	PROPOSED
P18	LT	PROPOSED
P19	LT	PROPOSED
P46	RT	PROPOSED
P47	RT	PROPOSED
P39	RT	PROPOSED
P26	RT	PROPOSED
P32	LT	PROPOSED

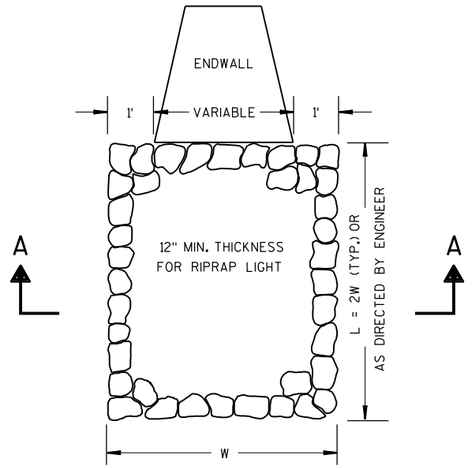


EROSION MAT TREATMENT AT CULVERTS

LOCATION	OFFSET	L	W
P3	LT	56	28
P42	LT	81	40.5
P43	LT	81	40.5
P5	LT	56	28
P6	LT	81	40.5
P9	LT	81	40.5
P8	LT	81	40.5
P45	RT	81	40.5
P13	RT	56	28
P18	LT	81	40.5
P19	LT	81	40.5
P46	RT	81	40.5
P47	RT	81	40.5
P26	RT	81	40.5
P32	LT	81	40.5

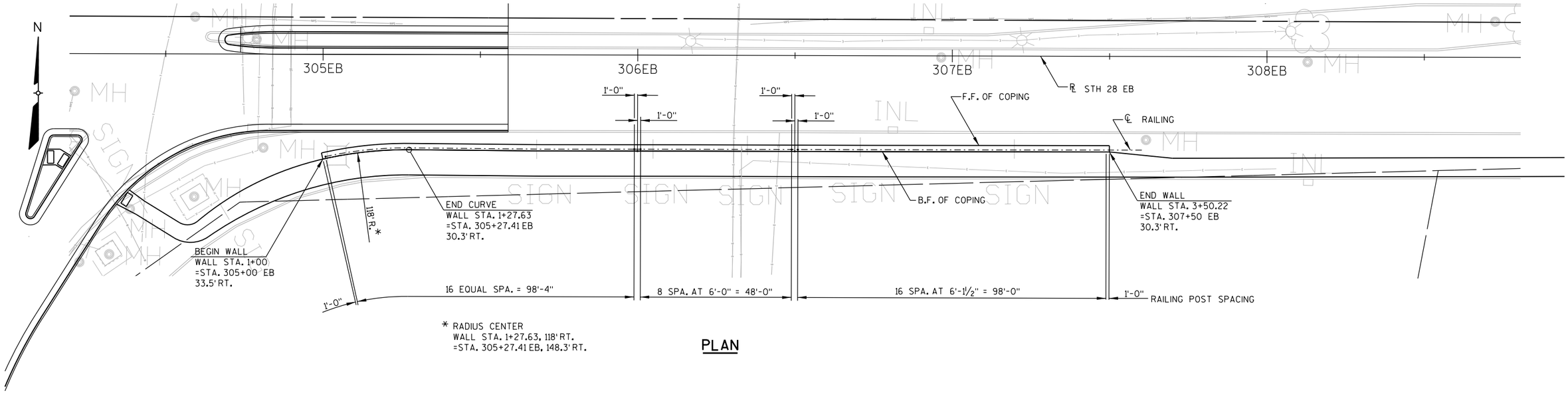


SECTION A-A



RIPRAP TREATMENT AT CULVERTS

LOCATION	OFFSET	L	W
P44	RT	81	40.5
P48	RT	81	40.5
P17	LT	81	40.5
P39	RT	81	40.5



* RADIUS CENTER
WALL STA. 1+27.63, 118'RT.
=STA. 305+27.41 EB, 148.3'RT.

PLAN

ALLOWABLE WALL SYSTEMS

1. MODULAR BLOCK GRAVITY WALL

GENERAL NOTES AND 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 MODULAR BLOCK GRAVITY 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.

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.

THE MODULAR BLOCK GRAVITY RETAINING WALL QUANTITIES ARE SHOWN ON THE MISCELLANEOUS QUANTITY SHEETS.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 100 PSF, AND ADDITIONAL LIVE LOAD APPLIED BY RAILING.

DESIGN WALL FOR A MAXIMUM NOMINAL ALLOWABLE BEARING CAPACITY OF 1,500 PSF.

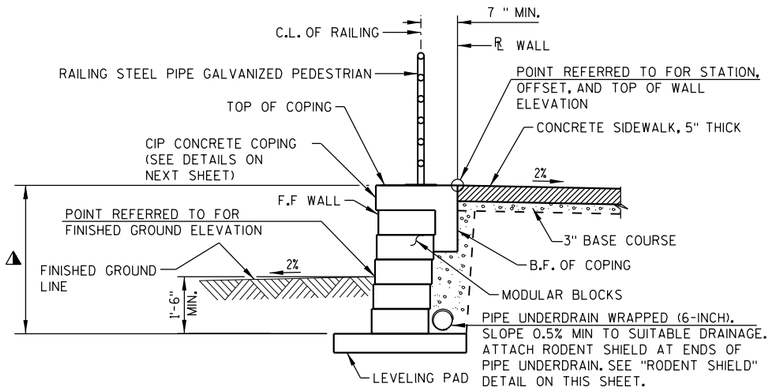
B.F. = BACK FACE
F.F. = FRONT FACE

DRAWINGS SHALL NOT BE SCALED.

ALL BAR STEEL IS TO BE EPOXY COATED.

TABLE OF ELEVATIONS

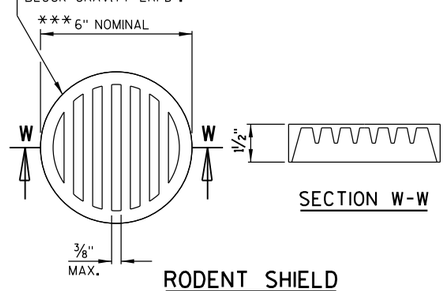
℄ STH 28 EB STATION	℄ STH 28 EB OFFSET	WALL STATION	FINISHED GROUND ELEVATION	TOP OF WALL ELEVATION
305+00.00 EB	33.5'RT.	1+00.00	703.51	704.80
305+50.00 EB	30.4'RT.	1+50.22	702.73	704.89
306+00.00 EB	30.5'RT.	2+00.22	702.45	704.97
306+50.00 EB	30.4'RT.	2+50.22	701.66	703.70
307+00.00 EB	30.4'RT.	3+00.22	700.52	701.98
307+50.00 EB	30.3'RT.	3+50.22	699.30	700.23



TYPICAL SECTION THRU RETAINING WALL

⚠ PAY LIMITS FOR BID ITEM "WALL MODULAR BLOCK GRAVITY LRFD"

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. THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "WALL MODULAR BLOCK GRAVITY LRFD".

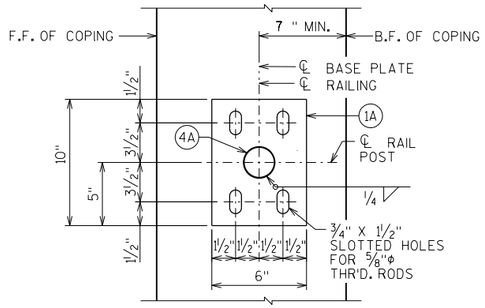


RODENT SHIELD

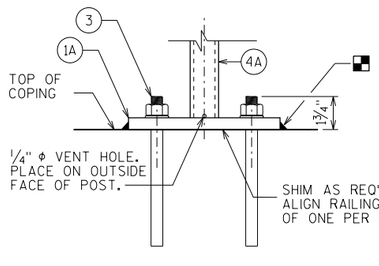
*** DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CONSTRUCTION DETAILS	SHEET 27	E

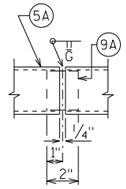
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BATCH PRINT SHEET 1 OF 2
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PLOT TIME: 2:32:53 PM
PLOT SCALE: 1:24
WISDOT/CADDS SHEET 42



TYPICAL RAIL POST BASE PLATE

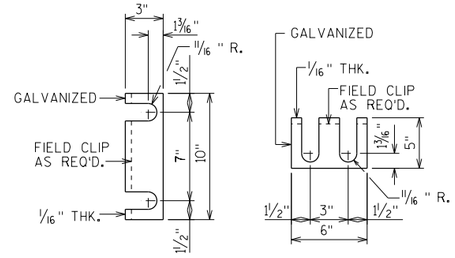


ANCHORAGE FOR RAIL POSTS



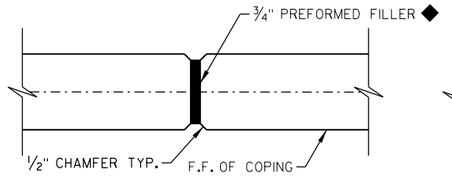
SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



RAIL POST SHIM DETAIL

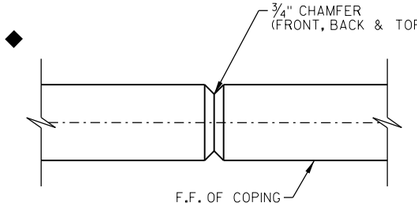
(2 SETS PER POST)



COPING EXPANSION JOINT

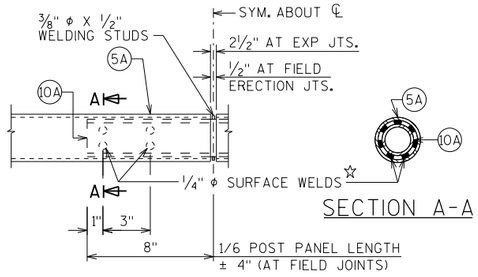
DO NOT RUN BAR STEEL THRU JOINTS.
MAX. SPACING OF JOINT = 50'-0".

◆ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE)



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINTS.
MAX. SPACING OF JOINT = 12'-0".
PLACE JOINTS VERTICAL.



SECTION A-A

FIELD ERECTION JOINT DETAIL

☆ MIN. ⅝" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

LEGEND

(1A) PLATE ⅝" X 6" X 10" WITH ¾" X 1½" SLOTTED HOLES.

(3) 4 - STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S, ⅝" Φ, EMBED A MIN. OF 7" IN CONCRETE FOR RAIL POSTS AND 5" IN CONCRETE FOR END RAILS.

(4A) 2½" Φ STANDARD PIPE. PLACE VERTICAL. WELD TO NO. 1A & 5A.

(5A) 2½" Φ STANDARD PIPE RAILS. WELD TO NO. 4A.

(9A) CIRCULAR SLEEVE FABRICATED FROM 1½" Φ STANDARD PIPE.

(10A) CIRCULAR SLEEVE FABRICATED FROM 1½" Φ STANDARD PIPE. (1'-4" @ FIELD ERECTION JTS.)

RAILING NOTES

BID ITEM SHALL BE "RAILING STEEL PIPE GALVANIZED PEDESTRIAN", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN.

QUANTITY FOR "RAILING STEEL PIPE GALVANIZED PEDESTRIAN" IS SHOWN ON THE MISCELLANEOUS QUANTITY SHEETS.

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. 1A SHALL CONFORM TO ASTM A709 GRADE 36. STRUCTURAL PIPE SHALL CONFORM TO ASTM A53 GRADE B (NO. 4A, 5A, 9A AND 10A)

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.

◆ CAULK AROUND PERIMETER OF BASE PLATES, NO. 1A, 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.

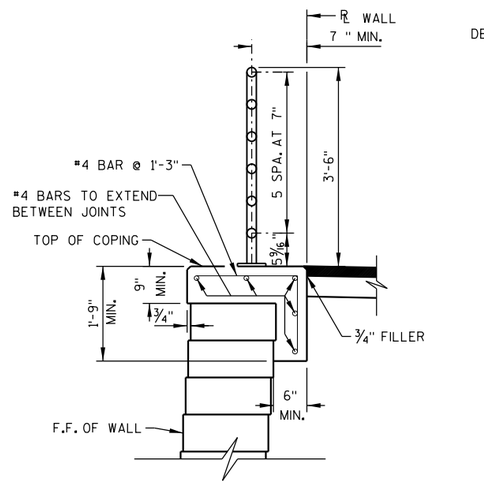
ALL MATERIAL (EXCEPT NO. 3) SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, THE STEEL RAILING SHALL BE GIVEN A NO. 6 BLAST CLEANING PER SSPC SPECIFICATIONS.

VENT HOLES SHALL BE DRILLED IN POST AND RAIL MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

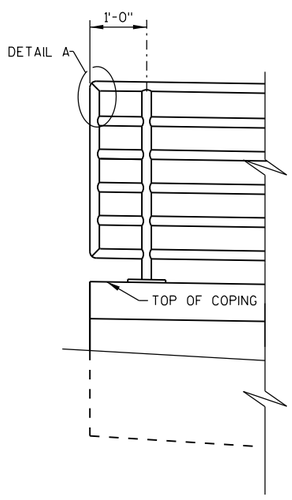
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS. RAILING SHALL FOLLOW CURVATURE OF WALL.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT, AND SHALL BE GALVANIZED.

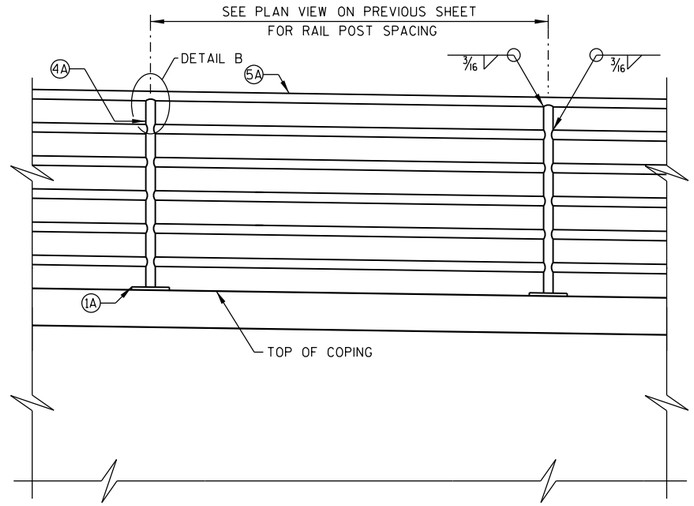
COORDINATE RAILING EXPANSION JOINT LOCATION WITH CIP CONCRETE COPING EXPANSION JOINT LOCATION.



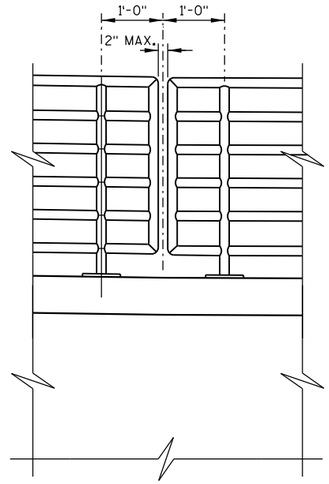
TYPICAL SECTION THRU RETAINING WALL



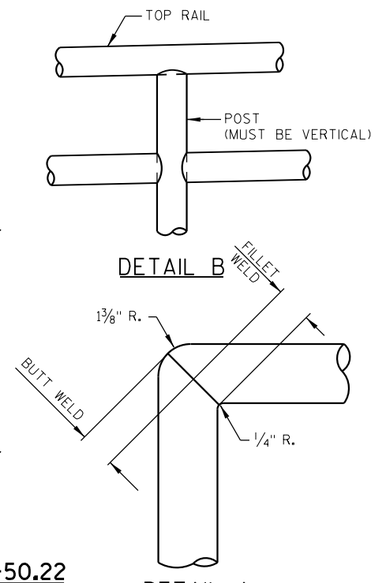
TYPICAL AT ENDS



ELEVATION



AT WALL STA. 2+00.22 & STA. 2+50.22



DETAIL A

2

N

242A

CTH A

SAWING ASPHALT

1P

2P

3P

3P+35.94
32.00' LT

3P+35.94
32.00' RT

A

A

10'

10'

B

B

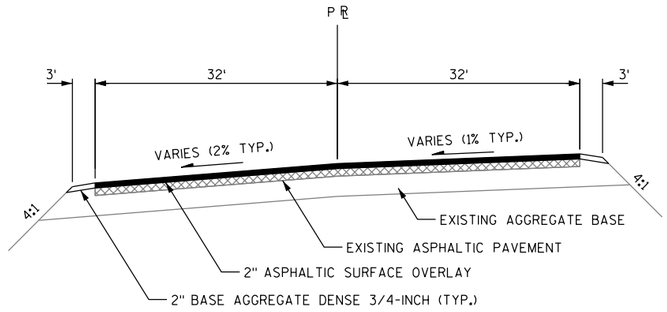
BIKE RACK

SIGN

HW

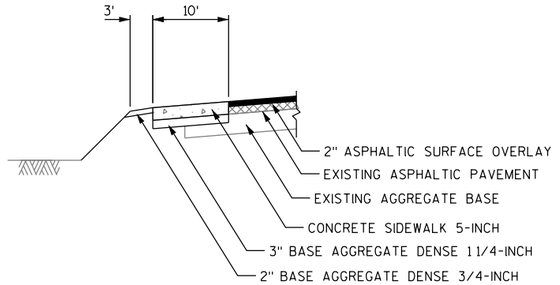
℄ PARK AND RIDE

NOTE: SEE PAVEMENT MARKING PLAN FOR PARKING SPACE LAYOUT.



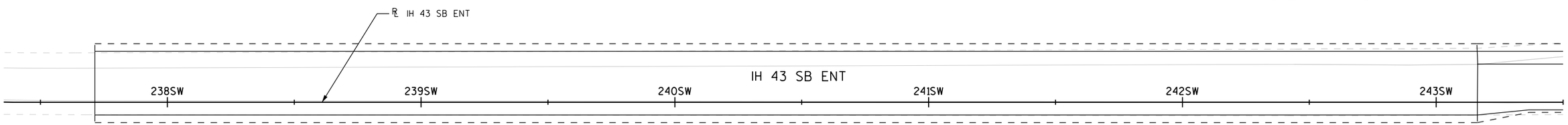
TYPICAL SECTION A-A

PARK AND RIDE



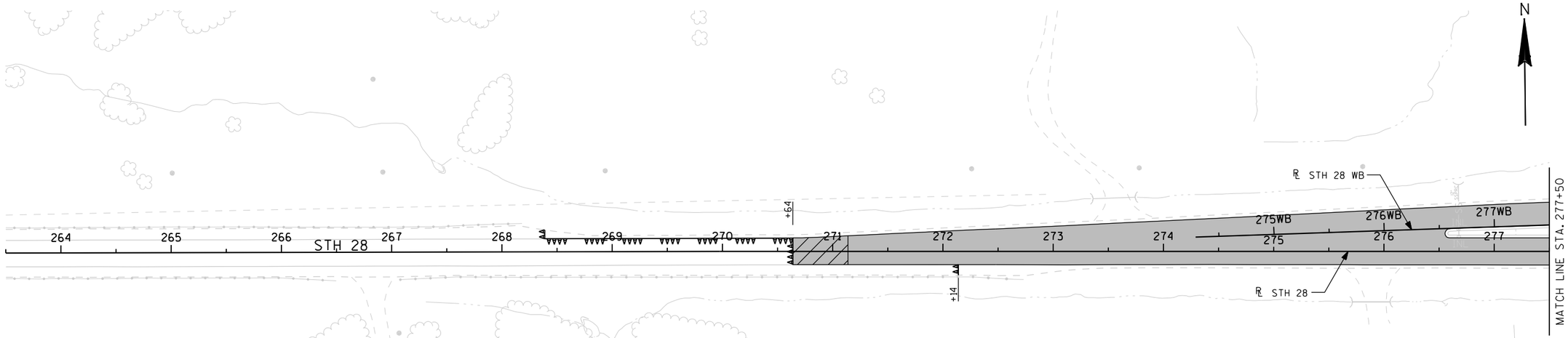
TYPICAL SECTION B-B

BIKE RACK PAD



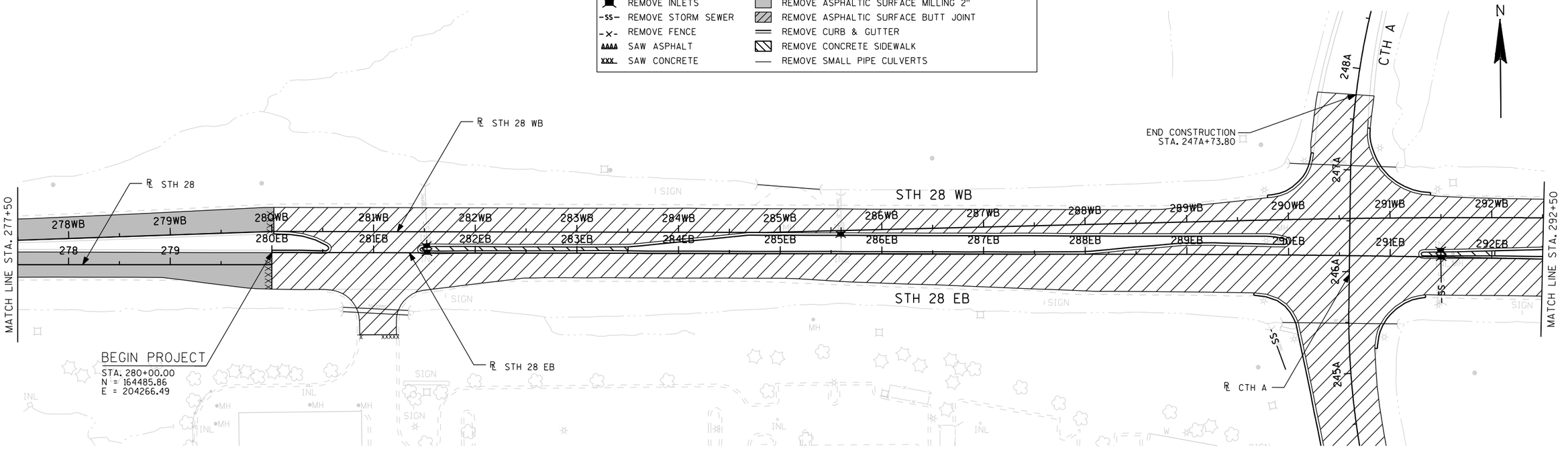
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PARK AND RIDE DETAIL	SHEET 29	E

2



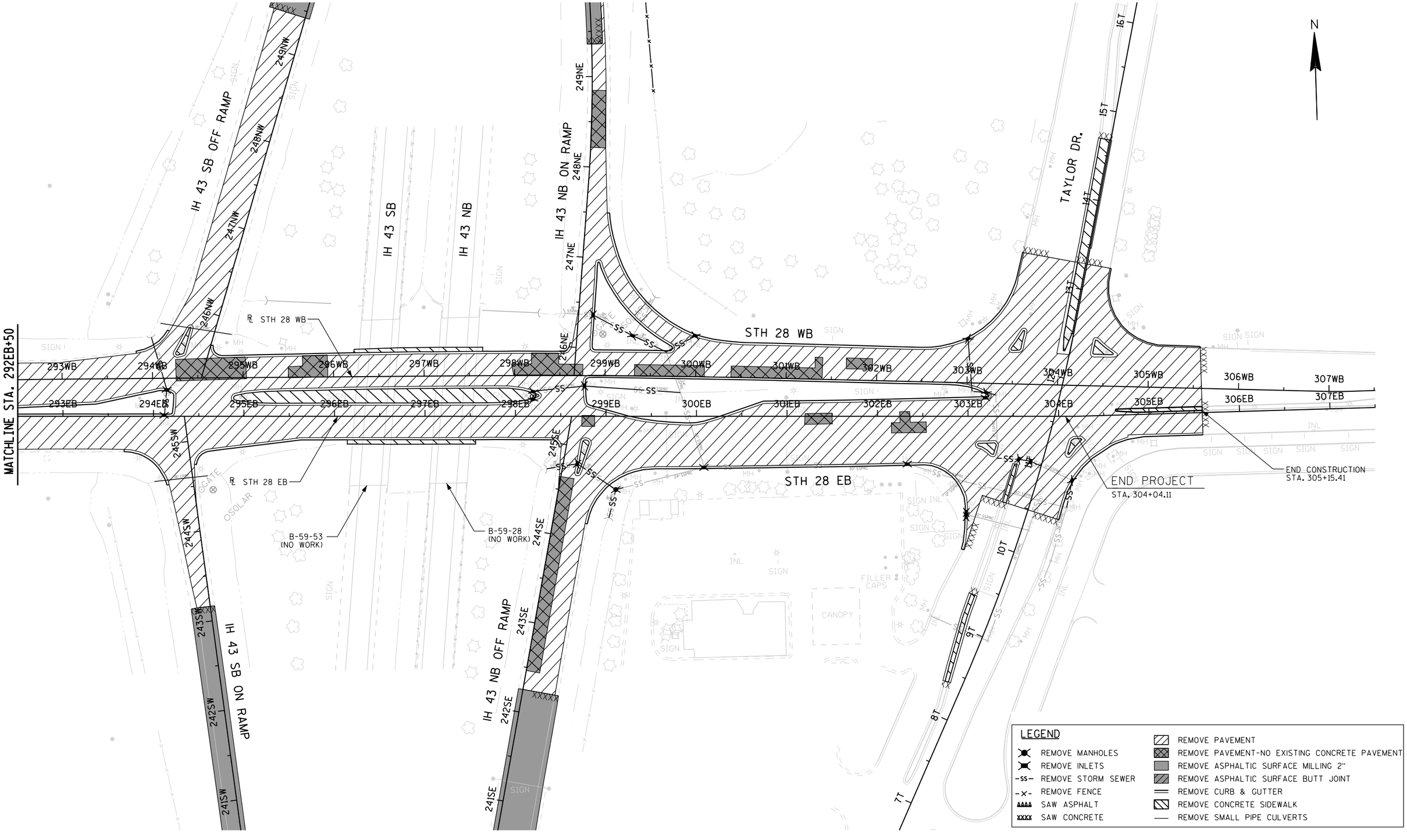
LEGEND

REMOVE MANHOLES	REMOVE PAVEMENT
REMOVE INLETS	REMOVE PAVEMENT-NO EXISTING CONCRETE PAVEMENT
-SS- REMOVE STORM SEWER	REMOVE ASPHALTIC SURFACE MILLING 2"
-X- REMOVE FENCE	REMOVE ASPHALTIC SURFACE BUTT JOINT
SAW ASPHALT	REMOVE CURB & GUTTER
XXX SAW CONCRETE	REMOVE CONCRETE SIDEWALK
	REMOVE SMALL PIPE CULVERTS

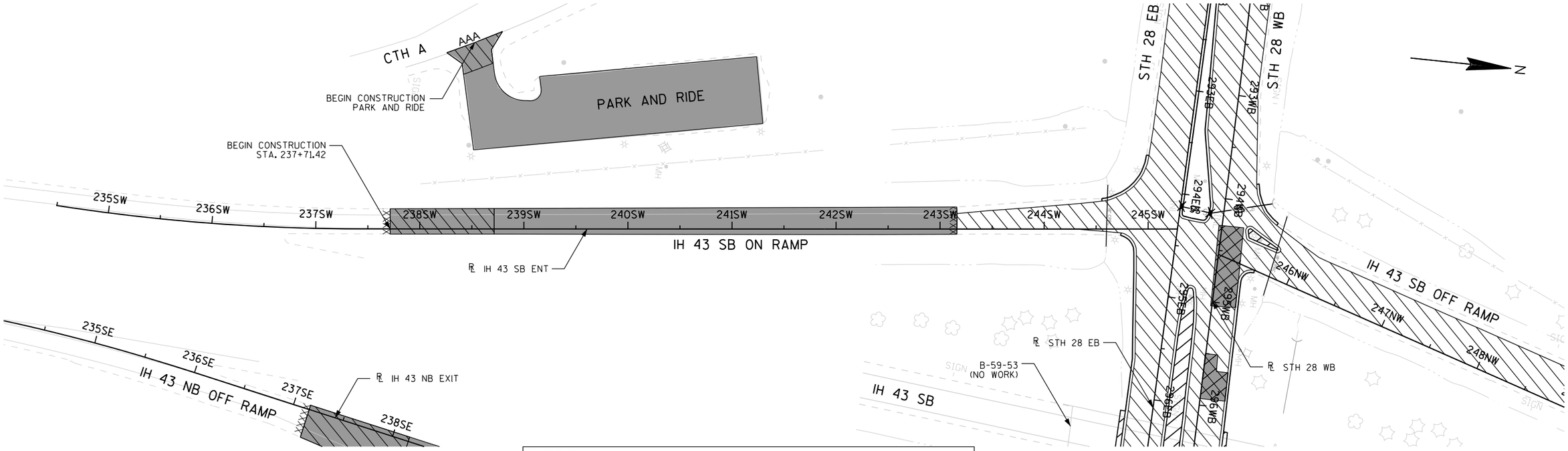


PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	REMOVAL PLANS	SHEET 30 E

2



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	REMOVAL PLANS	SHEET 31	E



LEGEND

- REMOVE MANHOLES
- REMOVE INLETS
- -ss- REMOVE STORM SEWER
- -x- REMOVE FENCE
- SAW ASPHALT
- XXXX SAW CONCRETE
- REMOVE PAVEMENT
- REMOVE PAVEMENT-NO EXISTING CONCRETE PAVEMENT
- REMOVE ASPHALTIC SURFACE MILLING 2"
- REMOVE ASPHALTIC SURFACE BUTT JOINT
- REMOVE CURB & GUTTER
- REMOVE CONCRETE SIDEWALK
- REMOVE SMALL PIPE CULVERTS

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	REMOVAL PLANS	SHEET 32	E

2

N

235SW 236SW 237SW IH 43 SB ON RAMP

℄ IH 43 SB ENT

IH 43 SB

B-59-53 (NO WORK)

IH 43 NB

B-59-28 (NO WORK)

BEGIN CONSTRUCTION STA. 237+15.85

℄ IH 43 NB EXIT

℄ STH 28 EB

℄ STH 28 WB

34SE 235SE 236SE 237SE 238SE 239SE 240SE 241SE 242SE 243SE 244SE 245SE

IH 43 NB OFF RAMP

246NE 247NE 248NE IH 43 NB ON RAMP

℄ IH 43 NB ENT

297WB 297EB 298EB 298WB 299EB 299WB 300EB 300WB

STH 28 EB

STH 28 WB

SIGN

SS

LEGEND

REMOVE MANHOLES	REMOVE PAVEMENT
REMOVE INLETS	REMOVE PAVEMENT-NO EXISTING CONCRETE PAVEMENT
-SS- REMOVE STORM SEWER	REMOVE ASPHALTIC SURFACE MILLING 2"
-X- REMOVE FENCE	REMOVE ASPHALTIC SURFACE BUTT JOINT
AAAA SAW ASPHALT	REMOVE CURB & GUTTER
XXXX SAW CONCRETE	REMOVE CONCRETE SIDEWALK
	REMOVE SMALL PIPE CULVERTS

N

252NW 253NW 254NW 255NW IH 43 SB OFF RAMP

℄ IH 43 SB EXIT

B-59-53 (NO WORK)

IH 43 SB

IH 43 NB

B-59-28 (NO WORK)

℄ STH 28 WB

℄ STH 28 EB

END CONSTRUCTION STA. 255+45.64

242E 243SE 244SE 245SE 246NE 247NE 248NE 249NE 250NE 251NE 252NE 253NE 254NE 255NE 256NE

IH 43 NB OFF RAMP

IH 43 NB ON RAMP

℄ IH 43 NB ENT

℄ IH 43 NB EXIT

297WB 297EB 298EB 298WB 299EB 299WB

STH 28 EB

STH 28 WB

SIGN

SS

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	REMOVAL PLANS	SHEET 33	E

2

N

GOLF COURSE

R/W

DUAL 16" F.M.

SAN

FO

OH

STA 244+91.14
22.00' LT
MATCH EXISTING

STA 244+93.16
20.00' LT
MATCH EXISTING

℄ STH 28

STA 244+93.16
12.00' LT

STA 245+76.40
12.00' RT

STA 245+76.40
19.87' RT

STA 245+61.44
21.86' RT

242 243 244 245 246 STH 28 247

MATCHLINE STA. 248+00

LEGEND

A	CONCRETE CURB & GUTTER 18-INCH, TYPE A	K	CURB RAMP TYPE 6
B	CONCRETE CURB & GUTTER 30-INCH, TYPE A	L	CONCRETE PAVEMENT 8-INCH (DOWELED)
C	CONCRETE CURB PEDESTRIAN	M	2" HMA PAVEMENT TYPE E-3
D	CONCRETE SIDEWALK 5-INCH	N	3½" HMA PAVEMENT TYPE E-0.3
E	CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH	O	4" HMA PAVEMENT TYPE E-3
F	CURB RAMP DETECTABLE WARNING FIELD (YELLOW)	P	5" HMA PAVEMENT TYPE E-3
G	CONCRETE MEDIAN SLOPED NOSE	Q	ASPHALTIC SURFACE
H	CURB RAMP TYPE 1-A	R	SLOPE PAVING SELECT CRUSHED MATERIAL
I	CURB RAMP TYPE 3	S	SLOPE PAVING CONCRETE
J	CURB RAMP TYPE 4B1	T	8" BASE AGGREGATE DENSE 3/4-INCH
		U	3½" BASE AGGREGATE DENSE 3/4-INCH

R/W

SAN

FO

OH

MATCHLINE STA. 248+00

MATCHLINE STA. 254+00

248 249 250 251 252 253 STH 28

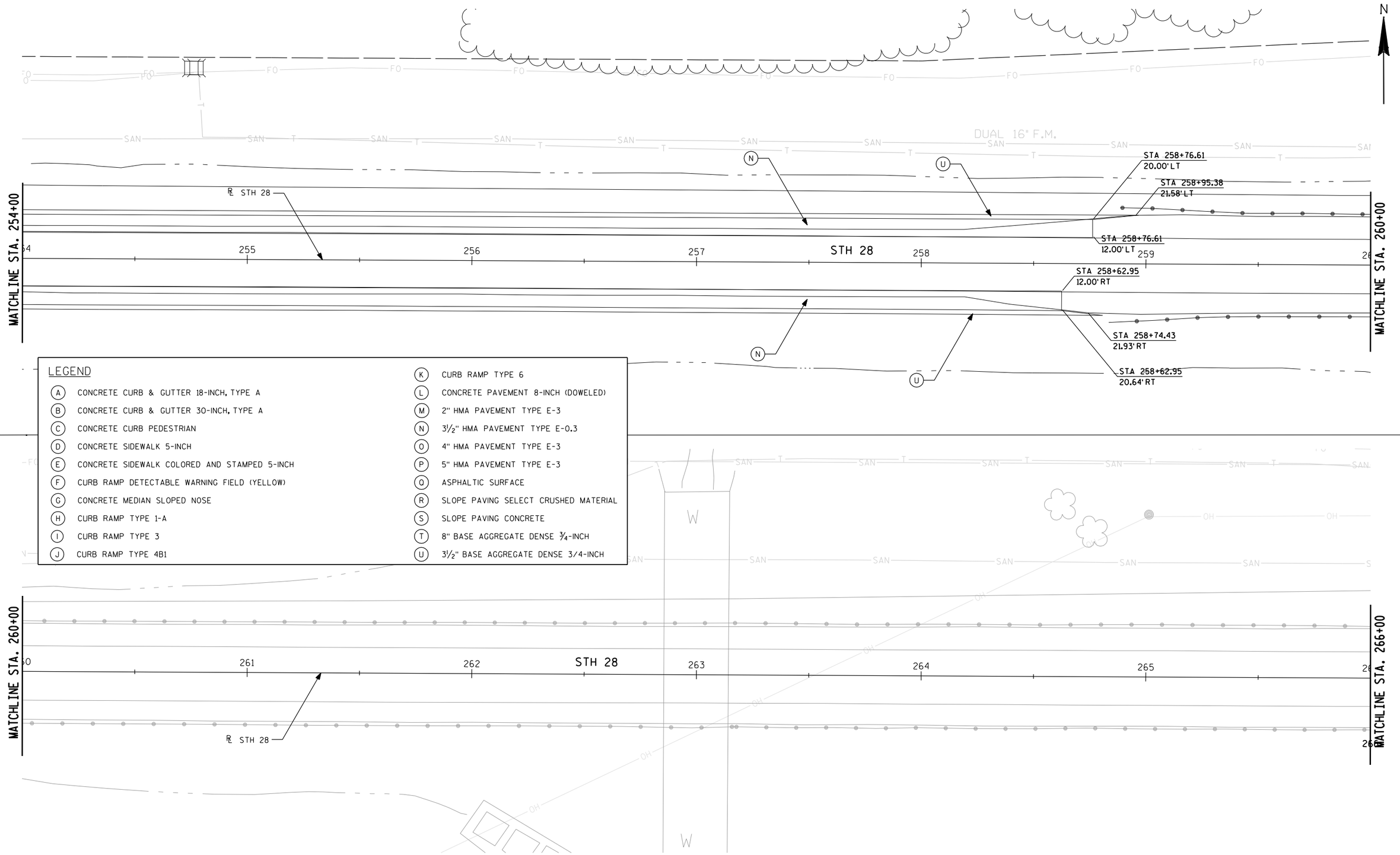
STH 28

℄ STH 28

R/W

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 34	E

FILE NAME : P:\60187755\000_CAD\001_Drawings\Sheets\021201A_PD.dgn PLOT DATE : 2/25/2015 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 1:40



LEGEND

- (A) CONCRETE CURB & GUTTER 18-INCH, TYPE A
- (B) CONCRETE CURB & GUTTER 30-INCH, TYPE A
- (C) CONCRETE CURB PEDESTRIAN
- (D) CONCRETE SIDEWALK 5-INCH
- (E) CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH
- (F) CURB RAMP DETECTABLE WARNING FIELD (YELLOW)
- (G) CONCRETE MEDIAN SLOPED NOSE
- (H) CURB RAMP TYPE 1-A
- (I) CURB RAMP TYPE 3
- (J) CURB RAMP TYPE 4B1
- (K) CURB RAMP TYPE 6
- (L) CONCRETE PAVEMENT 8-INCH (DOWELED)
- (M) 2" HMA PAVEMENT TYPE E-3
- (N) 3½" HMA PAVEMENT TYPE E-0.3
- (O) 4" HMA PAVEMENT TYPE E-3
- (P) 5" HMA PAVEMENT TYPE E-3
- (O) ASPHALTIC SURFACE
- (R) SLOPE PAVING SELECT CRUSHED MATERIAL
- (S) SLOPE PAVING CONCRETE
- (T) 8" BASE AGGREGATE DENSE ¾-INCH
- (U) 3½" BASE AGGREGATE DENSE 3/4-INCH

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 35	E

2

N

R/W

DUAL 16" F.M.

MATCHLINE STA. 266+00

MATCHLINE STA. 271+50

STA 268+38.78
20.00'LT
MATCH EXISTING

STA 268+38.78
12.00'LT

STA 270+63.70
20.00'LT

STA 270+63.89
12.00'LT

STA 270+63.89
12.00'RT

STH 28

℄ STH 28

266 267 268 269 270 271

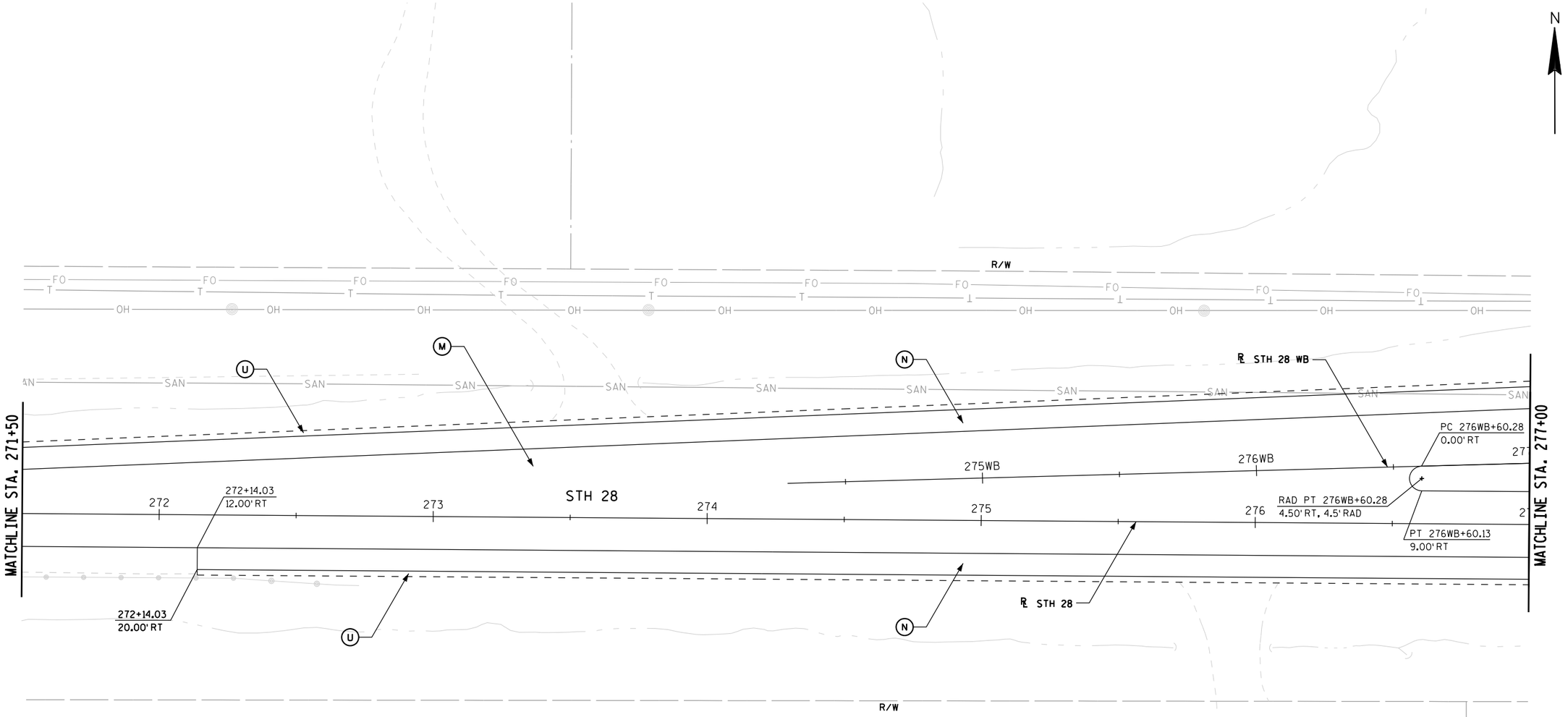
OH

R/W

LEGEND

(A)	CONCRETE CURB & GUTTER 18-INCH, TYPE A	(K)	CURB RAMP TYPE 6
(B)	CONCRETE CURB & GUTTER 30-INCH, TYPE A	(L)	CONCRETE PAVEMENT 8-INCH (DOWELED)
(C)	CONCRETE CURB PEDESTRIAN	(M)	2" HMA PAVEMENT TYPE E-3
(D)	CONCRETE SIDEWALK 5-INCH	(N)	3½" HMA PAVEMENT TYPE E-0.3
(E)	CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH	(O)	4" HMA PAVEMENT TYPE E-3
(F)	CURB RAMP DETECTABLE WARNING FIELD (YELLOW)	(P)	5" HMA PAVEMENT TYPE E-3
(G)	CONCRETE MEDIAN SLOPED NOSE	(Q)	ASPHALTIC SURFACE
(H)	CURB RAMP TYPE 1-A	(R)	SLOPE PAVING SELECT CRUSHED MATERIAL
(I)	CURB RAMP TYPE 3	(S)	SLOPE PAVING CONCRETE
(J)	CURB RAMP TYPE 4B1	(T)	8" BASE AGGREGATE DENSE ¾-INCH
		(U)	3½" BASE AGGREGATE DENSE 3/4-INCH

2



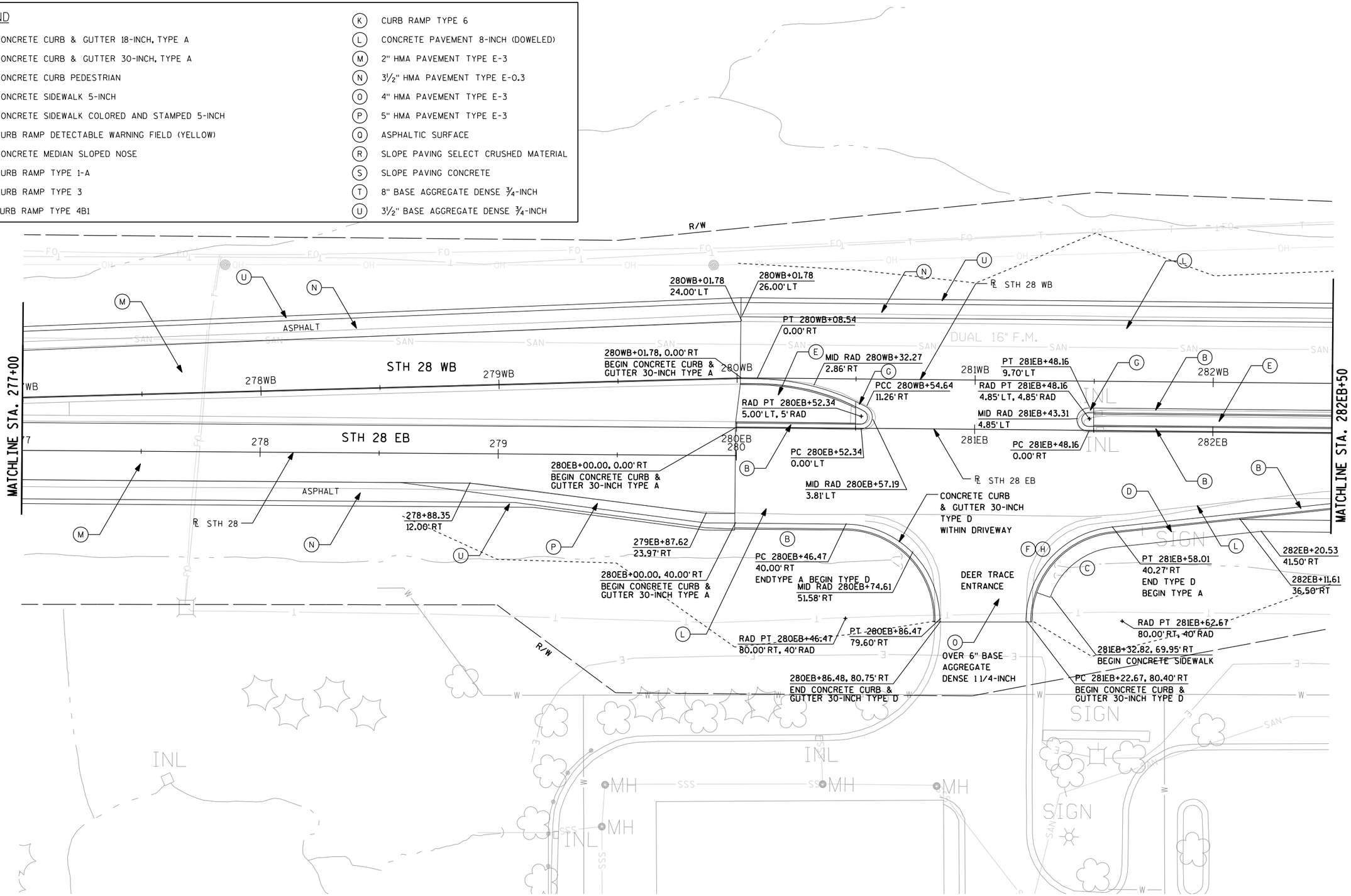
LEGEND

- (A) CONCRETE CURB & GUTTER 18-INCH, TYPE A
- (B) CONCRETE CURB & GUTTER 30-INCH, TYPE A
- (C) CONCRETE CURB PEDESTRIAN
- (D) CONCRETE SIDEWALK 5-INCH
- (E) CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH
- (F) CURB RAMP DETECTABLE WARNING FIELD (YELLOW)
- (G) CONCRETE MEDIAN SLOPED NOSE
- (H) CURB RAMP TYPE 1-A
- (I) CURB RAMP TYPE 3
- (J) CURB RAMP TYPE 4B1
- (K) CURB RAMP TYPE 6
- (L) CONCRETE PAVEMENT 8-INCH (DOWELED)
- (M) 2" HMA PAVEMENT TYPE E-3
- (N) 3½" HMA PAVEMENT TYPE E-0.3
- (O) 4" HMA PAVEMENT TYPE E-3
- (P) 5" HMA PAVEMENT TYPE E-3
- (Q) ASPHALTIC SURFACE
- (R) SLOPE PAVING SELECT CRUSHED MATERIAL
- (S) SLOPE PAVING CONCRETE
- (T) 8" BASE AGGREGATE DENSE ¾-INCH
- (U) 3½" BASE AGGREGATE DENSE 3/4-INCH

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 37	E

LEGEND

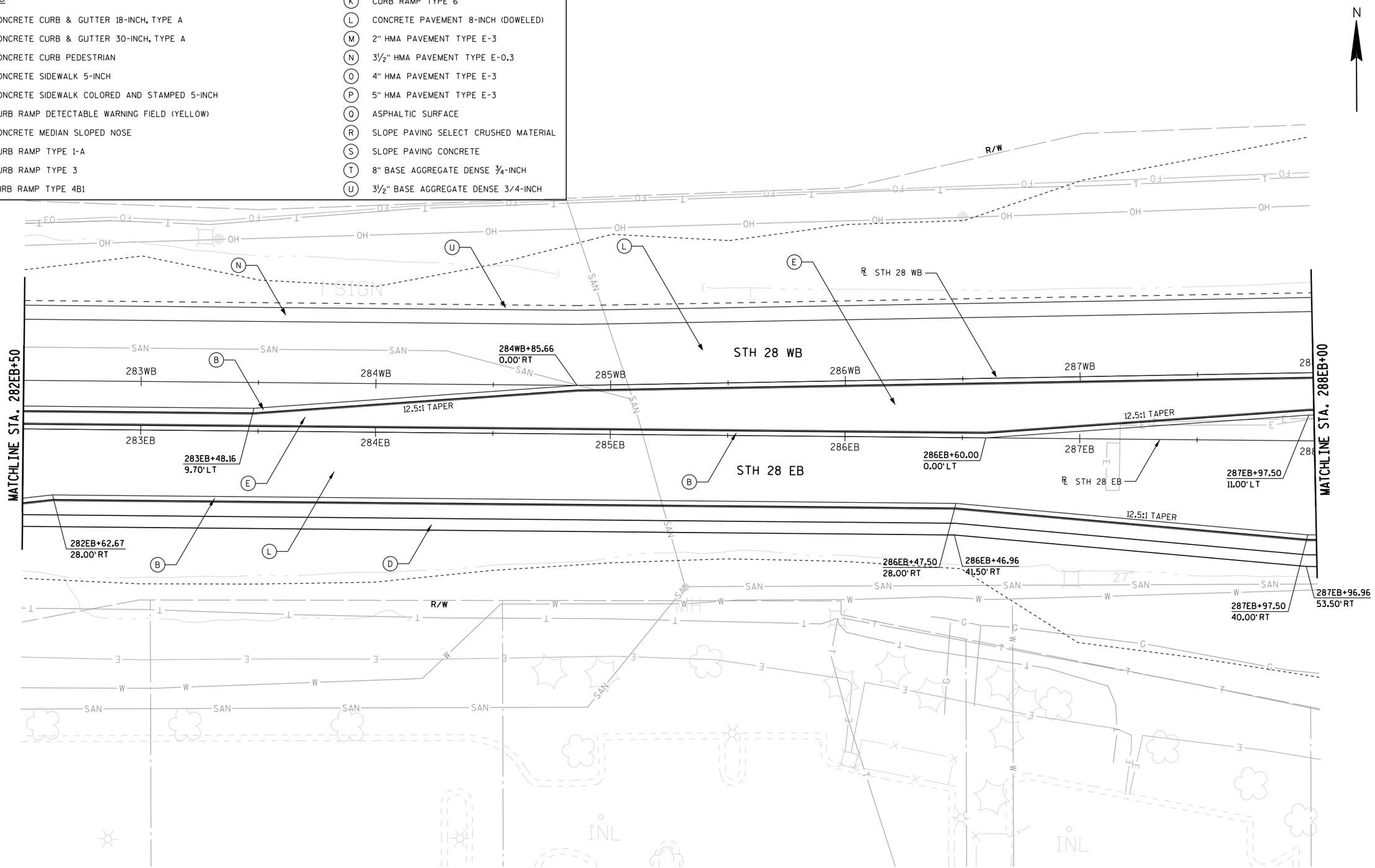
- (A) CONCRETE CURB & GUTTER 18-INCH, TYPE A
- (B) CONCRETE CURB & GUTTER 30-INCH, TYPE A
- (C) CONCRETE CURB PEDESTRIAN
- (D) CONCRETE SIDEWALK 5-INCH
- (E) CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH
- (F) CURB RAMP DETECTABLE WARNING FIELD (YELLOW)
- (G) CONCRETE MEDIAN SLOPED NOSE
- (H) CURB RAMP TYPE 1-A
- (I) CURB RAMP TYPE 3
- (J) CURB RAMP TYPE 4B1
- (K) CURB RAMP TYPE 6
- (L) CONCRETE PAVEMENT 8-INCH (DOWELED)
- (M) 2" HMA PAVEMENT TYPE E-3
- (N) 3½" HMA PAVEMENT TYPE E-0.3
- (O) 4" HMA PAVEMENT TYPE E-3
- (P) 5" HMA PAVEMENT TYPE E-3
- (Q) ASPHALTIC SURFACE
- (R) SLOPE PAVING SELECT CRUSHED MATERIAL
- (S) SLOPE PAVING CONCRETE
- (T) 8" BASE AGGREGATE DENSE ¾-INCH
- (U) 3½" BASE AGGREGATE DENSE ¾-INCH



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 38	E

LEGEND

- (A) CONCRETE CURB & GUTTER 18-INCH, TYPE A
- (B) CONCRETE CURB & GUTTER 30-INCH, TYPE A
- (C) CONCRETE CURB PEDESTRIAN
- (D) CONCRETE SIDEWALK 5-INCH
- (E) CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH
- (F) CURB RAMP DETECTABLE WARNING FIELD (YELLOW)
- (G) CONCRETE MEDIAN SLOPED NOSE
- (H) CURB RAMP TYPE 1-A
- (I) CURB RAMP TYPE 3
- (J) CURB RAMP TYPE 4B1
- (K) CURB RAMP TYPE 6
- (L) CONCRETE PAVEMENT 8-INCH (DOWELED)
- (M) 2" HMA PAVEMENT TYPE E-3
- (N) 3½" HMA PAVEMENT TYPE E-0.3
- (O) 4" HMA PAVEMENT TYPE E-3
- (P) 5" HMA PAVEMENT TYPE E-3
- (Q) ASPHALTIC SURFACE
- (R) SLOPE PAVING SELECT CRUSHED MATERIAL
- (S) SLOPE PAVING CONCRETE
- (T) 8" BASE AGGREGATE DENSE ¾-INCH
- (U) 3½" BASE AGGREGATE DENSE 3/4-INCH



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 39	E

2

N

END CONSTRUCTION
STA. 247A+73.80

248A

CTH A

℄ CTH A

R/W

PT 290WB+29.14, 81.70'LT
END CONCRETE CURB &
GUTTER 30-INCH TYPE A

RAD PT 289WB+79.81
86.01'LT, 50'RAD

MID RAD 290WB+15.85
51.65'LT

PC 289WB+36.91, 32.00'LT
BEGIN CONCRETE CURB &
GUTTER 30-INCH TYPE A

PC 289WB+86.79,
36.50'LT

288WB+94.15
26.00'LT

MID RAD 289WB+57.53
1.99'RT

289WB+54.90
32.00'LT

PC 289WB+33.16
0.00'LT

PCC 289WB+81.26
7.91'RT

℄ STH 28 WB

290WB

289WB

RAD PT 289WB+79.34
13.59'RT, 6'RAD

MID RAD 289WB+85.35
13.69'RT

PCC 289EB+81.31
14.90'LT

289EB

290EB

PC 289EB+57.50
11.00'LT

PC 289EB+63.42
40.00'RT

MID RAD 289EB+69.56
11.98'LT

STH 28 EB

MATCHLINE STA. 288EB+00

247A

PC 290WB+92.51, 64.77'LT
BEGIN CONCRETE CURB &
GUTTER 30-INCH TYPE A

RAD PT 291WB+37.43
88.17'LT, 53.1'RAD

MID RAD 291WB+01.91
49.06'LT

PT 291WB+31.07
35.52'LT

MID RAD 292WB+51.96
24.00'LT

PC 292WB+29.35
24.00'LT

PT 292WB+74.57
24.00'LT

SIGN

291WB

292WB

293WB

PCC 291WB+26.74
25.39'RT

MID RAD 291WB+37.85
22.85'RT

PT 291WB+49.21
22.00'RT

STH 28 WB

293WB+36.16
22.00'RT

RAD PT 291EB+28.17
8.03'LT, 5'RAD

MID RAD 291EB+23.17
7.97'LT

8:1 TAPER

291EB

292EB

293EB

PCC 291EB+26.71
3.25'LT

PT 291EB+48.50
0.00'RT

292EB+36.50
11.00'LT

MID RAD 291EB+37.48
0.82'LT

PT 291EB+35.31
36.00'RT

246A

MATCHLINE STA. 293EB+50

MID RAD 289EB+94.88
51.03'RT

PT 290EB+12.50
79.28'RT

RAD PT 289EB+63.42
90.00'RT, 50'RAD

℄ STH 28 EB

SIGN

MID RAD 290EB+98.86
51.62'RT

RAD PT 291EB+35.31
86.00'RT, 50'RAD

PC 290EB+85.13, 88.77'RT
BEGIN CONCRETE CURB &
GUTTER 30-INCH TYPE A

245A

CONCRETE SURFACE DRAINS, SEE
STANDARD DETAILS DRAWING
"CONCRETE SURFACE DRAINS
AND ASPHALTIC FLUMES" FOR
DETAIL NOT SHOWN

CONCRETE CURB & GUTTER
30-INCH TYPE D

LEGEND

A	CONCRETE CURB & GUTTER 18-INCH, TYPE A	K	CURB RAMP TYPE 6
B	CONCRETE CURB & GUTTER 30-INCH, TYPE A	L	CONCRETE PAVEMENT 8-INCH (DOWELED)
C	CONCRETE CURB PEDESTRIAN	M	2" HMA PAVEMENT TYPE E-3
D	CONCRETE SIDEWALK 5-INCH	N	3½" HMA PAVEMENT TYPE E-0.3
E	CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH	O	4" HMA PAVEMENT TYPE E-3
F	CURB RAMP DETECTABLE WARNING FIELD (YELLOW)	P	5" HMA PAVEMENT TYPE E-3
G	CONCRETE MEDIAN SLOPED NOSE	Q	ASPHALTIC SURFACE
H	CURB RAMP TYPE 1-A	R	SLOPE PAVING SELECT CRUSHED MATERIAL
I	CURB RAMP TYPE 3	S	SLOPE PAVING CONCRETE
J	CURB RAMP TYPE 4B1	T	5" BASE AGGREGATE DENSE ¾-INCH
		U	3½" BASE AGGREGATE DENSE ¾-INCH

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 40	E

2

N

MATCHLINE STA. 293EB+50

MATCHLINE STA. 298EB+00

RAD PT 293WB+75.06
95.64'LT, 60'RAD

294WB+45.27
97.24'LT

294WB+39.73, 87.65'LT
END CONCRETE CURB &
GUTTER 30-INCH TYPE A

PT 294WB+27.02
65.63'LT

MID RAD 294WB+07.91
45.43'LT

PC 293WB+81.75
36.01'LT

IH 43 SB EXIT

246NW

PC 294WB+65.80, 40.07'LT
BEGIN CONCRETE CURB &
GUTTER 30-INCH TYPE A

IH 43 SB

IH 43 NB

RAD PT 294WB+77.78
36.50'LT, 12.5'RAD

PT 294WB+77.78
24.00'LT

296WB+22.88
32.50'LT

296WB+22.88
26.50'LT

297WB+64.95
32.50'LT

297WB+64.95
26.50'LT

MID RAD 294WB+24.07
3.27'RT

PC 294WB+16.67
0.00'RT

294WB+11.16
0.00'RT

MID RAD 294WB+67.76
29.03'LT

MID RAD 295WB+07.32
12.63'RT

PCC 294WB+89.92
17.47'RT

PT 295WB+25.30
11.00'RT

STH 28 WB

℄ STH 28 WB

PC 297WB+88.40
11.00'RT

294WB

295WB

296WB

297WB

3.4:1 TAPER

PT 294WB+26.63
10.88'RT

MID RAD 294WB+86.69
22.25'RT

RAD PT 294WB+16.67
10.00'RT, 10'RAD

PT 294EB+24.48
15.60'LT

RAD PT 294WB+91.69
22.14'RT, 5'RAD

RAD PT 294EB+19.50
16.00'LT, 5'RAD

PCC 294EB+89.37
15.75'LT

294EB

PC 294EB+19.50
11.00'LT

MID RAD 295EB+04.42
12.20'LT

295EB

PT 295EB+19.84
11.00'LT

296EB

297EB

℄ STH 28 EB

STH 28 EB

PC 297EB+85.11
11.00'LT

PC 293EB+68.08
36.00'RT

245SW

PT 294EB+62.82
35.95'RT

296EB+13.90
27.51'RT

297EB+55.98
27.48'RT

295EB+60.21
24.00'RT

RAD PT 294EB+65.26
55.80'RT, 20'RAD

296EB+14.30
32.50'RT

297EB+55.98
32.50'RT

MID RAD 293EB+98.72
46.49'RT

MID RAD 294EB+49.95
42.93'RT

PC 294EB+45.29, 56.81'RT
BEGIN CONCRETE CURB &
GUTTER 30-INCH TYPE A

RAD PT 293EB+68.08
86.00'RT, 50'RAD

PT 294EB+16.51, 73.56'RT
END CONCRETE CURB &
GUTTER 30-INCH TYPE A

294EB+47.32
97.24'RT

244SW

IH 43 SB ENT

B-59-53
(NO WORK)

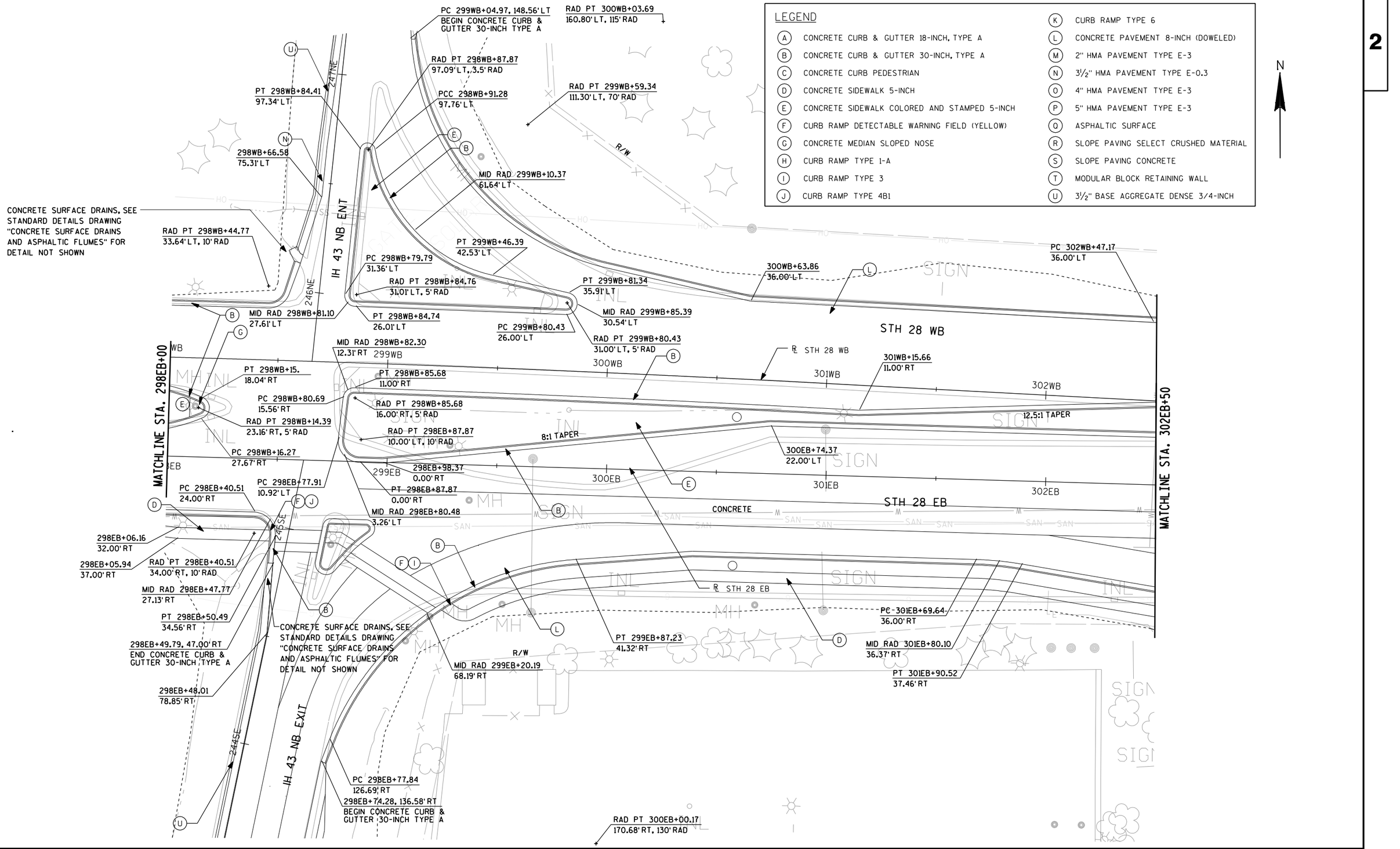
B-59-28
(NO WORK)

LEGEND

(A)	CONCRETE CURB & GUTTER 18-INCH, TYPE A	(K)	CURB RAMP TYPE 6
(B)	CONCRETE CURB & GUTTER 30-INCH, TYPE A	(L)	CONCRETE PAVEMENT 8-INCH (DOWELED)
(C)	CONCRETE CURB PEDESTRIAN	(M)	2" HMA PAVEMENT TYPE E-3
(D)	CONCRETE SIDEWALK 5-INCH	(N)	3½" HMA PAVEMENT TYPE E-0.3
(E)	CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH	(O)	4" HMA PAVEMENT TYPE E-3
(F)	CURB RAMP DETECTABLE WARNING FIELD (YELLOW)	(P)	5" HMA PAVEMENT TYPE E-3
(G)	CONCRETE MEDIAN SLOPED NOSE	(Q)	ASPHALTIC SURFACE
(H)	CURB RAMP TYPE 1-A	(R)	SLOPE PAVING SELECT CRUSHED MATERIAL
(I)	CURB RAMP TYPE 3	(S)	SLOPE PAVING CONCRETE
(J)	CURB RAMP TYPE 4B1	(T)	8" BASE AGGREGATE DENSE ¾-INCH
		(U)	3½" BASE AGGREGATE DENSE 3/4-INCH

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 41	E

2



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 42	E

2

N

LEGEND

- (A) CONCRETE CURB & GUTTER 18-INCH, TYPE A
- (B) CONCRETE CURB & GUTTER 30-INCH, TYPE A
- (C) CONCRETE CURB PEDESTRIAN
- (D) CONCRETE SIDEWALK 5-INCH
- (E) CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH
- (F) CURB RAMP DETECTABLE WARNING FIELD (YELLOW)
- (G) CONCRETE MEDIAN SLOPED NOSE
- (H) CURB RAMP TYPE 1-A
- (I) CURB RAMP TYPE 3
- (J) CURB RAMP TYPE 4B1
- (K) CURB RAMP TYPE 6
- (L) CONCRETE PAVEMENT 8-INCH (DOWELED)
- (M) 2" HMA PAVEMENT TYPE E-3
- (N) 3½" HMA PAVEMENT TYPE E-0.3
- (O) 4" HMA PAVEMENT TYPE E-3
- (P) 5" HMA PAVEMENT TYPE E-3
- (Q) ASPHALTIC SURFACE
- (R) SLOPE PAVING SELECT CRUSHED MATERIAL
- (S) SLOPE PAVING CONCRETE
- (T) 8" BASE AGGREGATE DENSE ¾-INCH
- (U) 3½" BASE AGGREGATE DENSE ¾-INCH

PT 303WB+58.50, 141.00' LT
BEGIN CONCRETE CURB & GUTTER 18-INCH TYPE A

303WB+59.40, 145.32' LT
END CONCRETE CURB & GUTTER 18-INCH TYPE A
MATCH EXISTING, SAWCUT REQ'D

MID RAD 303WB+54.12
124.57' LT

RAD PT 302WB+47.17
141.00' LT, 105' RAD

PC 303WB+47.91, 108.74' LT
BEGIN TRANSITION TO CONCRETE CURB & GUTTER 18-INCH TYPE A

PT 303WB+42.58
97.15' LT

304WB+53.73, 130.60' LT
BEGIN CONCRETE CURB & GUTTER 18-INCH TYPE A
MATCH EXISTING, SAWCUT REQ'D

PC 304WB+51.94
119.08' LT

RAD PT 305WB+08.25
110.30' LT, 57' RAD

MID RAD 304WB+60.88
78.60' LT

MID RAD 303WB+03.83
52.60' LT

PCC 304WB+53.07
50.68' LT

PT 304WB+94.88
54.89' LT

MID RAD 304WB+59.49
47.55' LT

PC 305WB+23.19
48.06' LT

PT 304WB+66.30
45.38' LT

MID RAD 305WB+39.81
45.03' LT

RAD PT 304WB+51.57
48.08' LT, 3' RAD

MID RAD 304WB+50.32
50.81' LT

PT 304WB+48.62
48.64' LT

PT 302WB+83.17
0.00' LT

PC 304WB+46.29
36.58' LT

PC 304WB+92.92
38.92' LT

MID RAD 304WB+95.19
35.64' LT

PT 305WB+56.67, 43.91' LT
END CONCRETE CURB & GUTTER 18-INCH TYPE A
MATCH EXISTING, SAWCUT REQ'D

MID RAD 302WB+99.44
1.79' RT

MID RAD 304WB+46.92
34.09' LT

PT 304WB+49.23
33.00' LT

RAD PT 304WB+49.23
36.00' LT, 3' RAD

RAD PT 304WB+92.21
36.00' LT, 3' RAD

PT 304WB+92.21
33.00' LT

PCC 303WB+14.93
7.06' RT

MID RAD 303WB+17.15
11.50' RT

RAD PT 303WB+13.24
10.68' RT, 4' RAD

PC 303WB+13.33
14.68' RT

MID RAD 304EB+77.17
8.82' LT

PCC 304EB+69.79
7.99' LT

PT 304EB+84.59
9.09' LT

305WB+58.81, 9.09' LT
BEGIN CONCRETE CURB & GUTTER 30-INCH TYPE A
MATCH EXISTING, SAWCUT REQ'D

RAD PT 304EB+70.31
4.53' LT, 3.5' RAD

RAD PT 302EB+73.96
30.00' RT, 4' RAD

PCC 304EB+69.79
1.07' LT

PT 304EB+84.59
0.03' RT

305EB+58.82, 0.01' LT
END CONCRETE CURB & GUTTER 30-INCH TYPE A
MATCH EXISTING, SAWCUT REQ'D

PC 302EB+73.96
26.00' RT

MID RAD 304EB+77.17
0.25' LT

PT 304EB+82.73
22.29' RT

MID RAD 302EB+69.97
29.72' RT

PC 303EB+26.03
26.00' RT

RAD PT 303EB+26.03
31.00' RT, 5' RAD

PT 302EB+73.40
33.96' RT

MID RAD 303EB+30.05
28.02' RT

PC 304EB+54.42
53.55' RT

PT 302EB+91.43
36.49' RT

PT 303EB+30.81
32.45' RT

MID RAD 304EB+51.45
30.42' RT

PC 302EB+55.40
46.58' RT

MID RAD 303EB+05.80
40.79' RT

PT 303EB+26.42
46.92' RT

PT 305EB+26.39
38.22' RT

305EB+58.86, 22.05' RT
END CONCRETE CURB & GUTTER 30-INCH TYPE A
MATCH EXISTING, SAWCUT REQ'D

PCC 303EB+18.25
49.15' RT

RAD PT 303EB+21.63
45.41' RT

RAD PT 304EB+57.96
49.85' RT, 10' RAD

MID RAD 304EB+93.52
43.34' RT

PCC 304EB+63.69
58.05' RT

MODULAR BLOCK RETAINING WALL
SEE DETAIL

MID RAD 303EB+22.95
50.29' RT

PCC 304EB+59.91
53.37' RT

MID RAD 302EB+87.28
64.60' RT

PC 304EB+52.74
58.38' RT

RAD PT 304EB+82.93
87.29' RT, 65' RAD

RAD PT 302EB+48.44
96.09' RT, 50' RAD

303EB+15.70
87.38' RT

PC 304EB+27.96
52.61' RT

PT 302EB+98.33
99.52' RT

PT 304EB+11.34
83.12' RT

MID RAD 304EB+03.68
97.90' RT

302EB+95.04, 147.39' RT
END CONCRETE CURB & GUTTER 30-INCH TYPE A
MATCH EXISTING, SAWCUT REQ'D

302EB+96.00
147.28' RT

PC 303EB+97.72, 113.43' RT
BEGIN CONCRETE CURB & GUTTER 30-INCH TYPE A
MATCH EXISTING, SAWCUT REQ'D

RAD PT 305EB+26.63
148.26' RT, 110' RAD

MATCHLINE STA. 302EB+50

MATCHLINE STA. 308EB+00

STH 28 WB

STH 28 EB

TAYLOR DR.

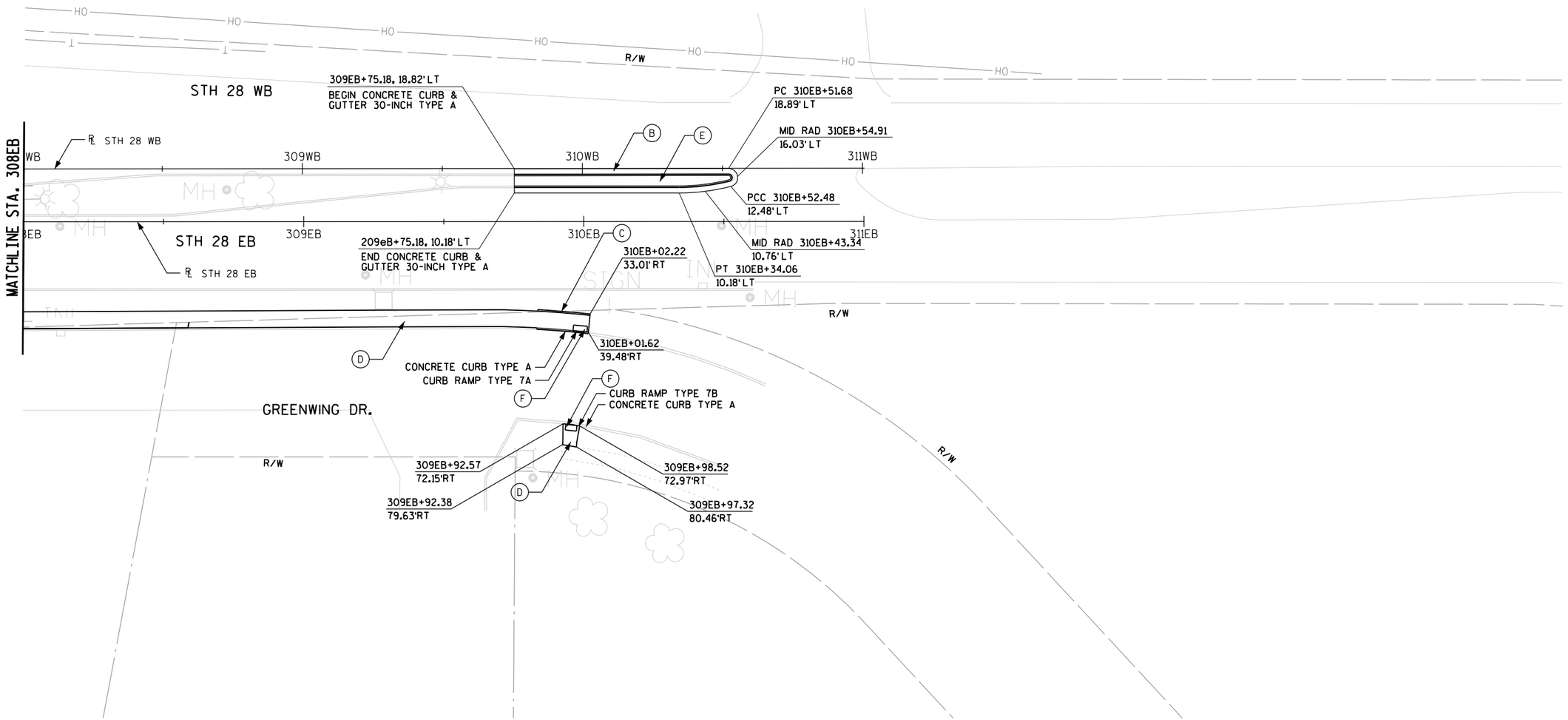
R/W

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 43	E

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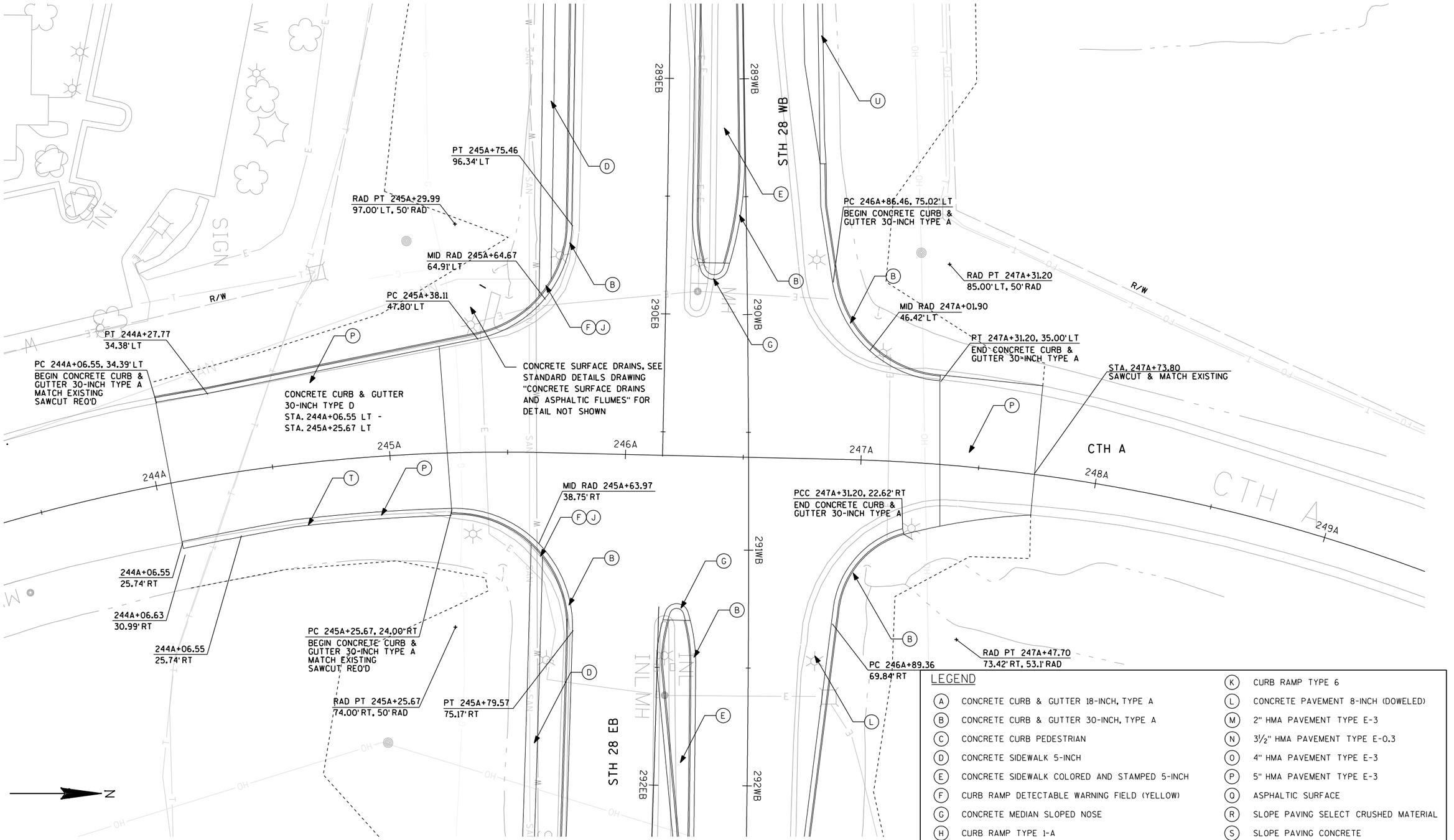
LEGEND

- (A) CONCRETE CURB & GUTTER 18-INCH, TYPE A
- (B) CONCRETE CURB & GUTTER 30-INCH, TYPE A
- (C) CONCRETE CURB PEDESTRIAN
- (D) CONCRETE SIDEWALK 5-INCH
- (E) CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH
- (F) CURB RAMP DETECTABLE WARNING FIELD (YELLOW)
- (G) CONCRETE MEDIAN SLOPED NOSE
- (H) CURB RAMP TYPE 1-A
- (I) CURB RAMP TYPE 3
- (J) CURB RAMP TYPE 4B1
- (K) CURB RAMP TYPE 6
- (L) CONCRETE PAVEMENT 8-INCH (DOWELED)
- (M) 2" HMA PAVEMENT TYPE E-3
- (N) 3½" HMA PAVEMENT TYPE E-0.3
- (O) 4" HMA PAVEMENT TYPE E-3
- (P) 5" HMA PAVEMENT TYPE E-3
- (Q) ASPHALTIC SURFACE
- (R) SLOPE PAVING SELECT CRUSHED MATERIAL
- (S) SLOPE PAVING CONCRETE
- (T) 8" BASE AGGREGATE DENSE ¾-INCH
- (U) 3½" BASE AGGREGATE DENSE ¾-INCH



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 44	E

2

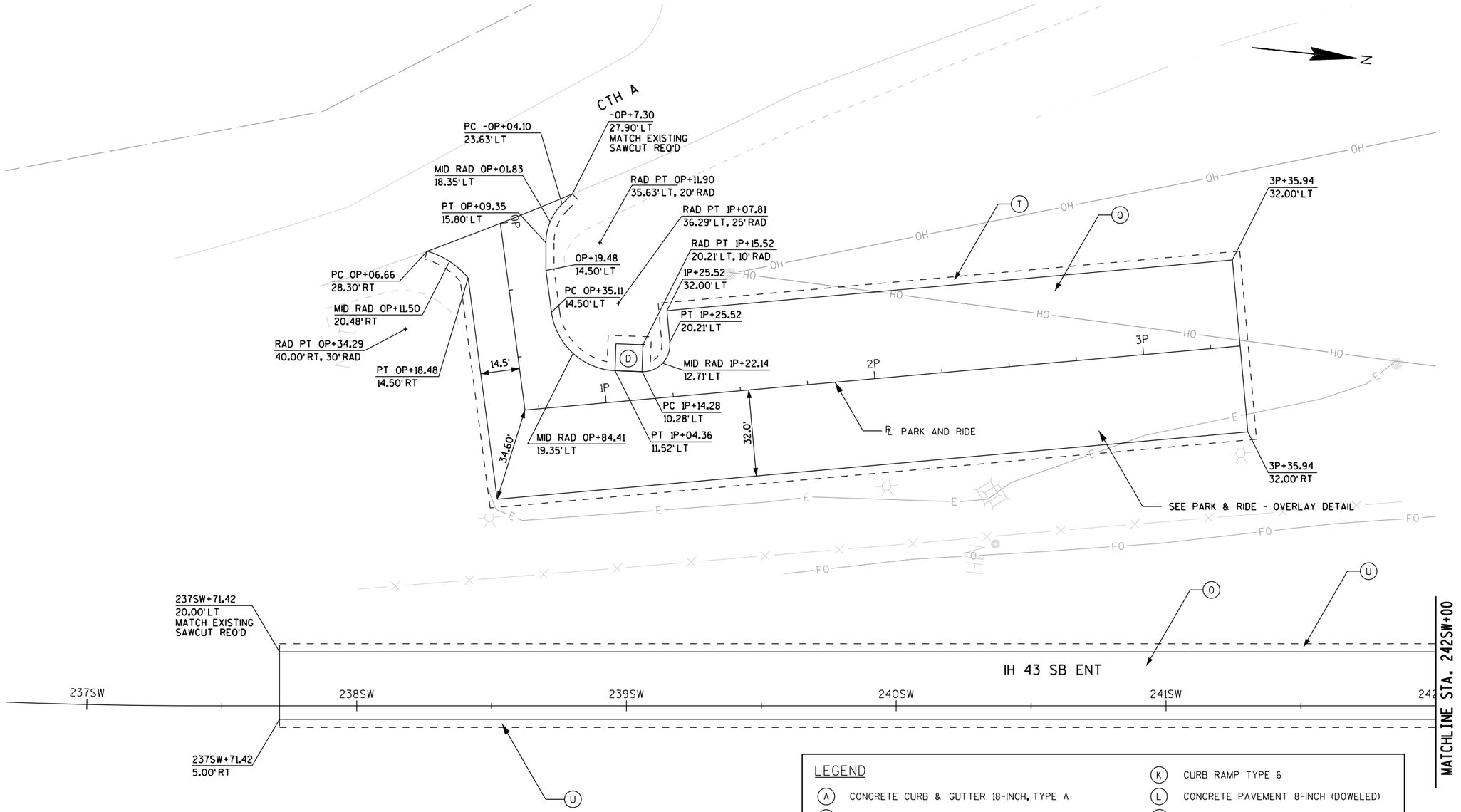


LEGEND

A	CONCRETE CURB & GUTTER 18-INCH, TYPE A	K	CURB RAMP TYPE 6
B	CONCRETE CURB & GUTTER 30-INCH, TYPE A	L	CONCRETE PAVEMENT 8-INCH (DOWELED)
C	CONCRETE CURB PEDESTRIAN	M	2" HMA PAVEMENT TYPE E-3
D	CONCRETE SIDEWALK 5-INCH	N	3½" HMA PAVEMENT TYPE E-0.3
E	CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH	O	4" HMA PAVEMENT TYPE E-3
F	CURB RAMP DETECTABLE WARNING FIELD (YELLOW)	P	5" HMA PAVEMENT TYPE E-3
G	CONCRETE MEDIAN SLOPED NOSE	Q	ASPHALTIC SURFACE
H	CURB RAMP TYPE 1-A	R	SLOPE PAVING SELECT CRUSHED MATERIAL
I	CURB RAMP TYPE 3	S	SLOPE PAVING CONCRETE
J	CURB RAMP TYPE 4B1	T	5" BASE AGGREGATE DENSE ¾-INCH
		U	3½" BASE AGGREGATE DENSE ¾-INCH

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 45	E

2

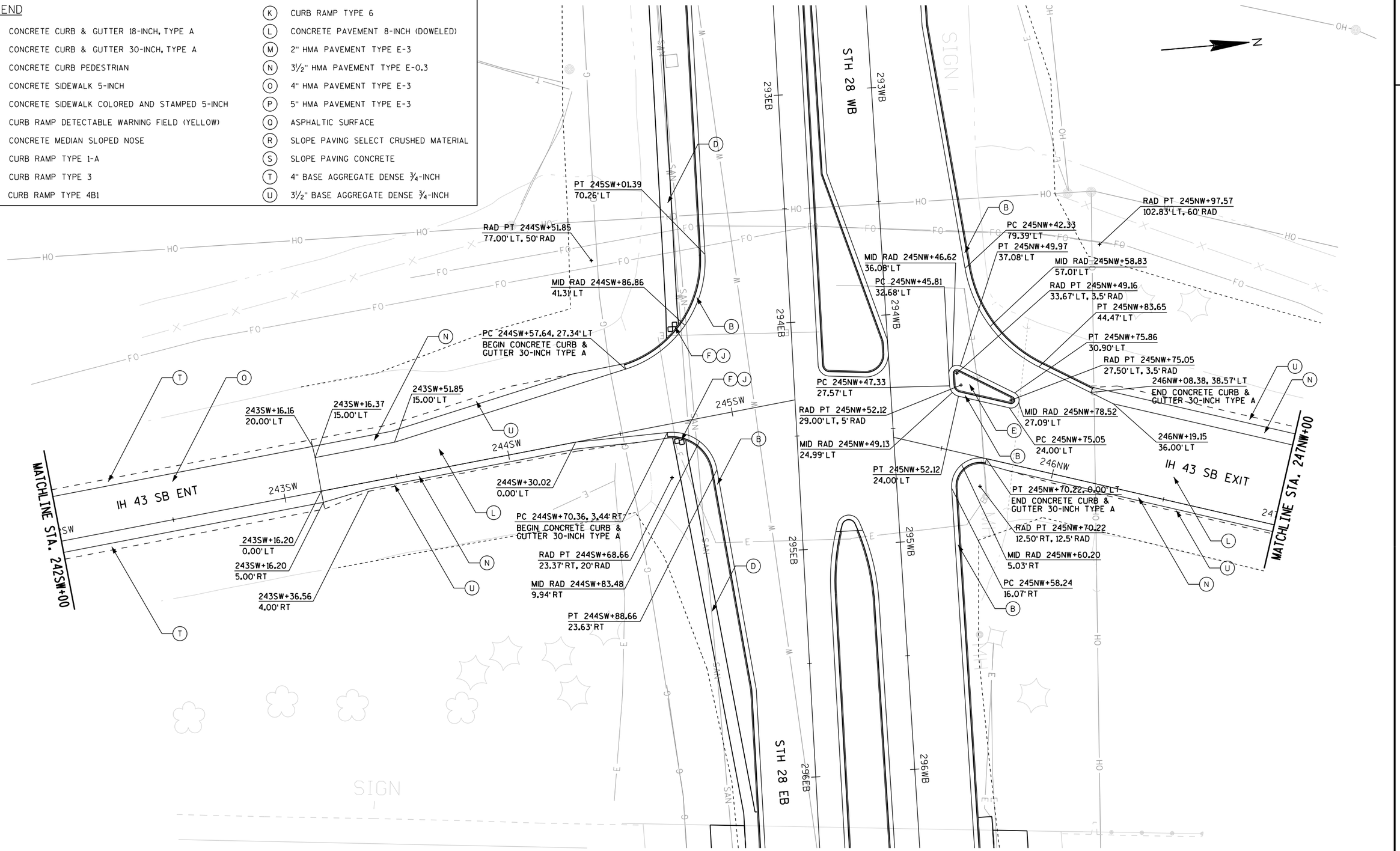


LEGEND			
A	CONCRETE CURB & GUTTER 18-INCH, TYPE A	K	CURB RAMP TYPE 6
B	CONCRETE CURB & GUTTER 30-INCH, TYPE A	L	CONCRETE PAVEMENT 8-INCH (DOWELED)
C	CONCRETE CURB PEDESTRIAN	M	2" HMA PAVEMENT TYPE E-3
D	CONCRETE SIDEWALK 5-INCH	N	3½" HMA PAVEMENT TYPE E-0.3
E	CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH	O	4" HMA PAVEMENT TYPE E-3
F	CURB RAMP DETECTABLE WARNING FIELD (YELLOW)	P	5" HMA PAVEMENT TYPE E-3
G	CONCRETE MEDIAN SLOPED NOSE	Q	ASPHALTIC SURFACE
H	CURB RAMP TYPE 1-A	R	SLOPE PAVING SELECT CRUSHED MATERIAL
I	CURB RAMP TYPE 3	S	SLOPE PAVING CONCRETE
J	CURB RAMP TYPE 4B1	T	2" BASE AGGREGATE DENSE ¾-INCH
		U	4" BASE AGGREGATE DENSE ¾-INCH

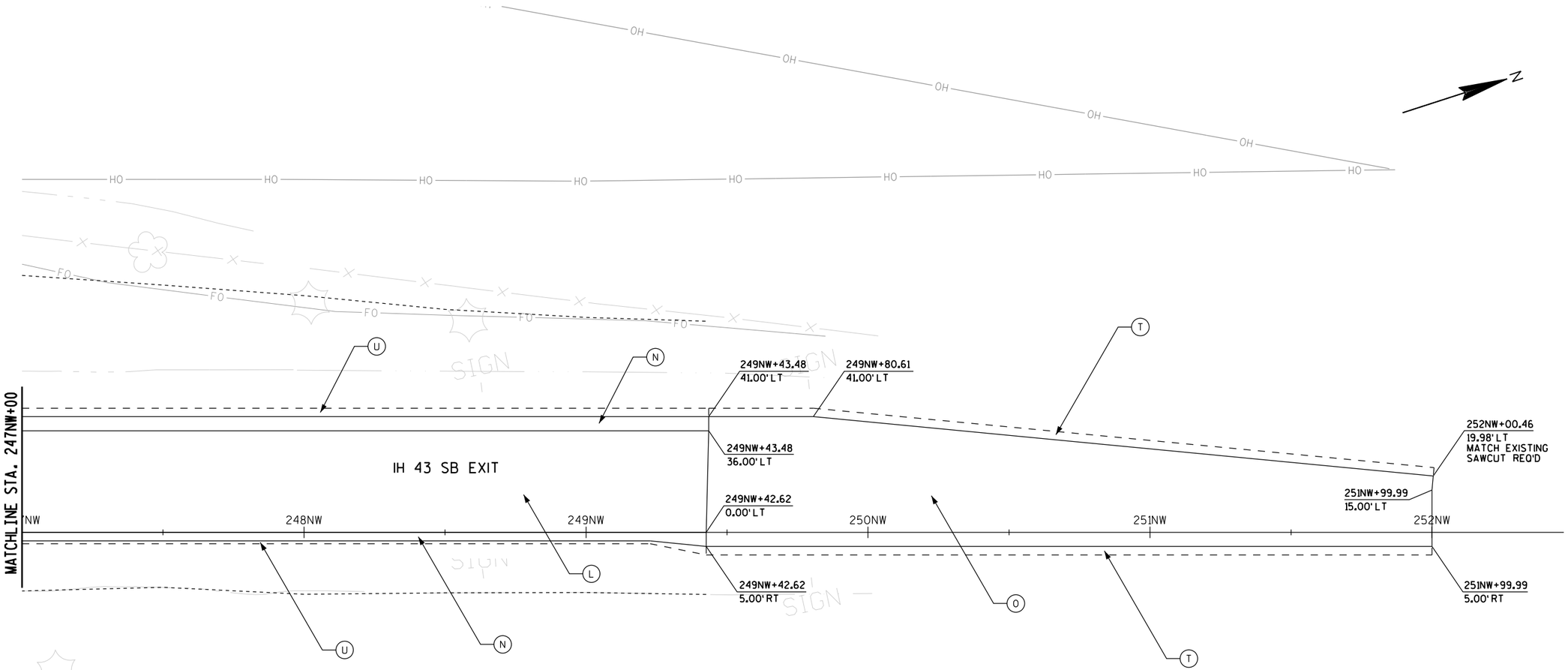
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 46	E

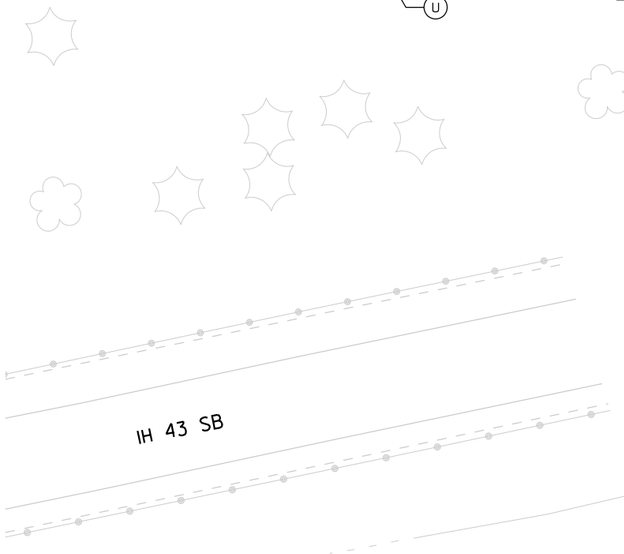
LEGEND

A	CONCRETE CURB & GUTTER 18-INCH, TYPE A	K	CURB RAMP TYPE 6
B	CONCRETE CURB & GUTTER 30-INCH, TYPE A	L	CONCRETE PAVEMENT 8-INCH (DOWELED)
C	CONCRETE CURB PEDESTRIAN	M	2" HMA PAVEMENT TYPE E-3
D	CONCRETE SIDEWALK 5-INCH	N	3½" HMA PAVEMENT TYPE E-0.3
E	CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH	O	4" HMA PAVEMENT TYPE E-3
F	CURB RAMP DETECTABLE WARNING FIELD (YELLOW)	P	5" HMA PAVEMENT TYPE E-3
G	CONCRETE MEDIAN SLOPED NOSE	Q	ASPHALTIC SURFACE
H	CURB RAMP TYPE 1-A	R	SLOPE PAVING SELECT CRUSHED MATERIAL
I	CURB RAMP TYPE 3	S	SLOPE PAVING CONCRETE
J	CURB RAMP TYPE 4B1	T	4" BASE AGGREGATE DENSE ¾-INCH
		U	3½" BASE AGGREGATE DENSE ¾-INCH



2



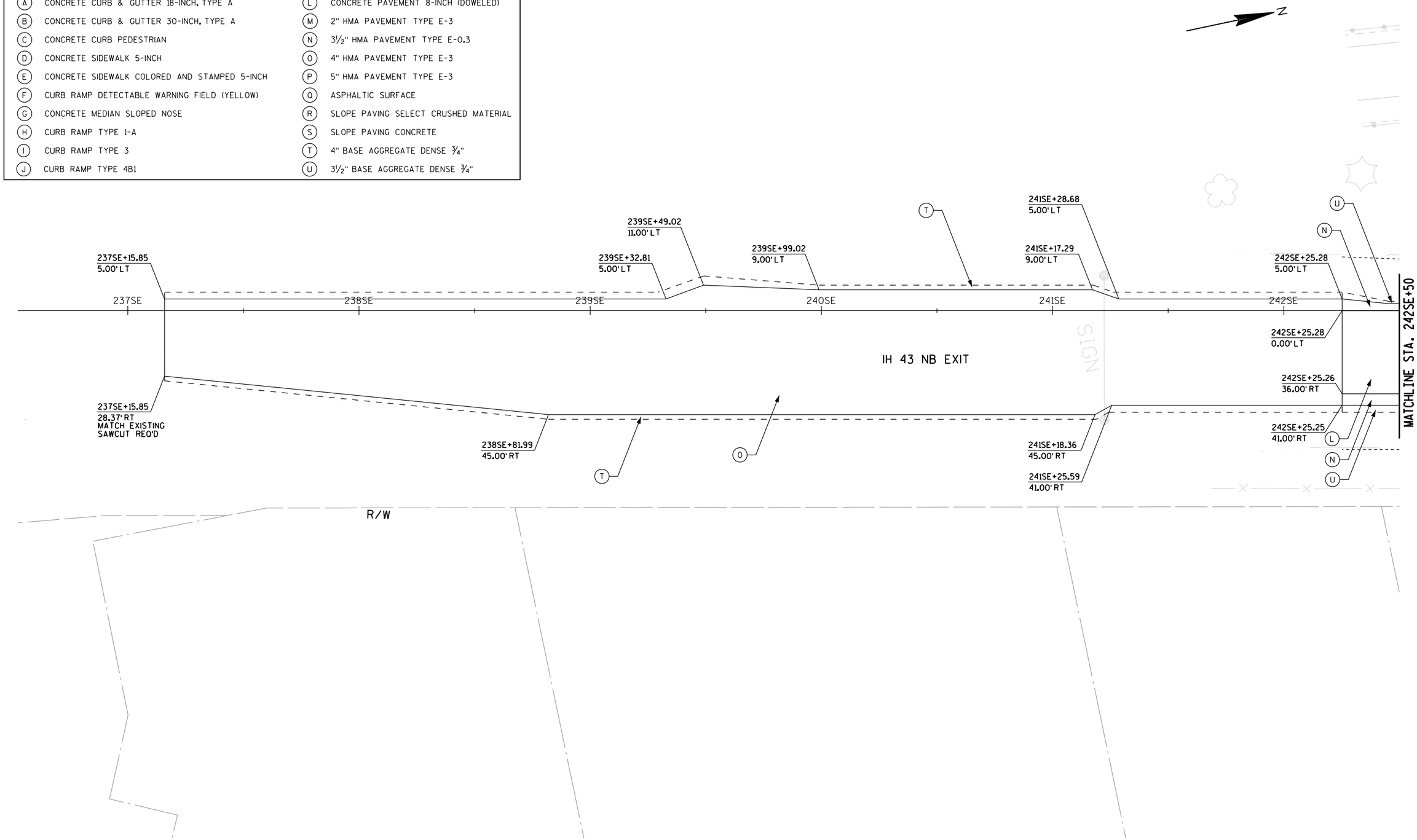


LEGEND

(A)	CONCRETE CURB & GUTTER 18-INCH, TYPE A	(K)	CURB RAMP TYPE 6
(B)	CONCRETE CURB & GUTTER 30-INCH, TYPE A	(L)	CONCRETE PAVEMENT 8-INCH (DOWELED)
(C)	CONCRETE CURB PEDESTRIAN	(M)	2" HMA PAVEMENT TYPE E-3
(D)	CONCRETE SIDEWALK 5-INCH	(N)	3½" HMA PAVEMENT TYPE E-0.3
(E)	CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH	(O)	4" HMA PAVEMENT TYPE E-3
(F)	CURB RAMP DETECTABLE WARNING FIELD (YELLOW)	(P)	5" HMA PAVEMENT TYPE E-3
(G)	CONCRETE MEDIAN SLOPED NOSE	(Q)	ASPHALTIC SURFACE
(H)	CURB RAMP TYPE 1-A	(R)	SLOPE PAVING SELECT CRUSHED MATERIAL
(I)	CURB RAMP TYPE 3	(S)	SLOPE PAVING CONCRETE
(J)	CURB RAMP TYPE 4B1	(T)	4" BASE AGGREGATE DENSE ¾"
		(U)	3½" BASE AGGREGATE DENSE ¾"

LEGEND

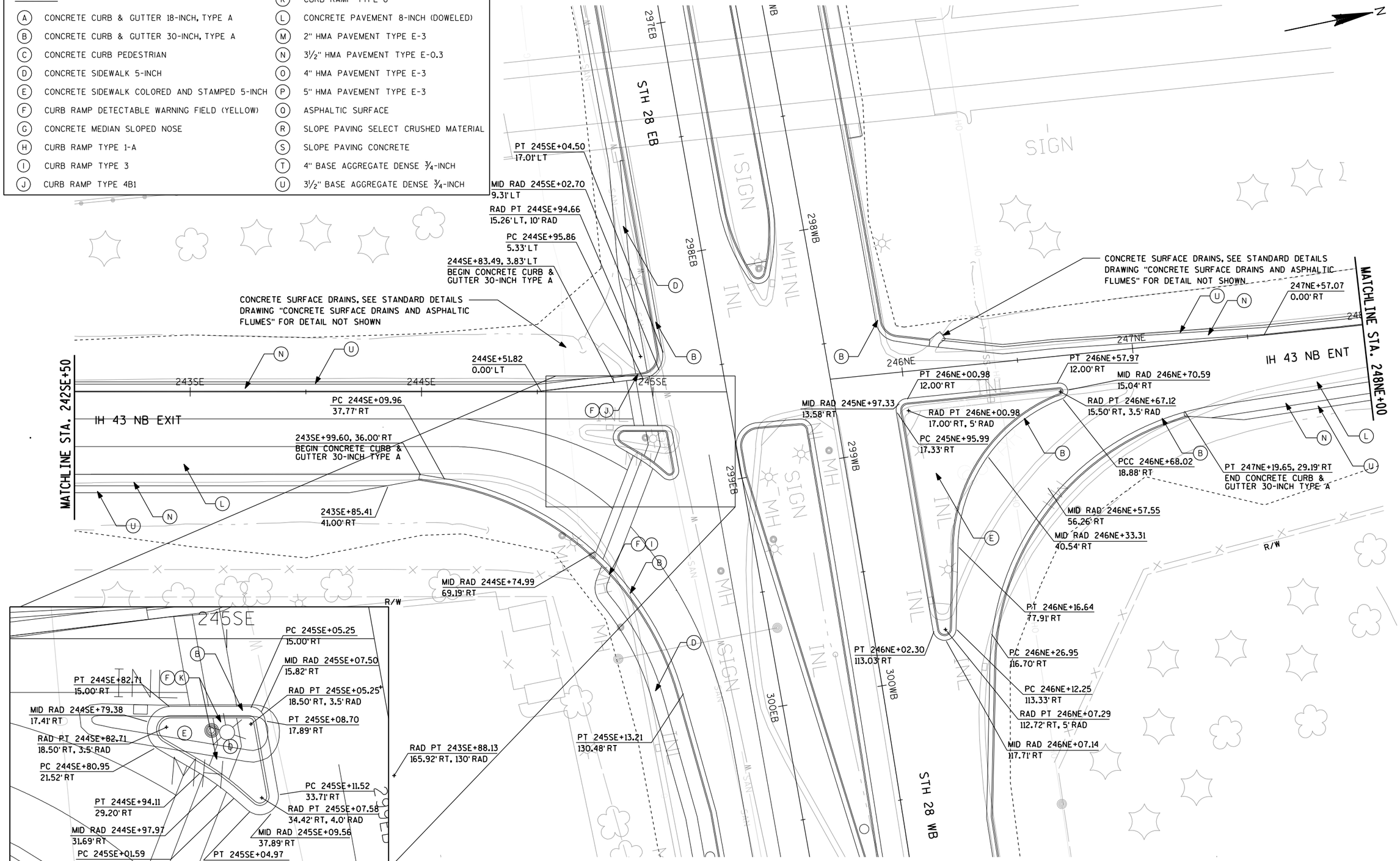
- (A) CONCRETE CURB & GUTTER 18-INCH, TYPE A
- (B) CONCRETE CURB & GUTTER 30-INCH, TYPE A
- (C) CONCRETE CURB PEDESTRIAN
- (D) CONCRETE SIDEWALK 5-INCH
- (E) CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH
- (F) CURB RAMP DETECTABLE WARNING FIELD (YELLOW)
- (G) CONCRETE MEDIAN SLOPED NOSE
- (H) CURB RAMP TYPE 1-A
- (I) CURB RAMP TYPE 3
- (J) CURB RAMP TYPE 4B1
- (K) CURB RAMP TYPE 6
- (L) CONCRETE PAVEMENT 8-INCH (DOWELED)
- (M) 2" HMA PAVEMENT TYPE E-3
- (N) 3½" HMA PAVEMENT TYPE E-0.3
- (O) 4" HMA PAVEMENT TYPE E-3
- (P) 5" HMA PAVEMENT TYPE E-3
- (Q) ASPHALTIC SURFACE
- (R) SLOPE PAVING SELECT CRUSHED MATERIAL
- (S) SLOPE PAVING CONCRETE
- (T) 4" BASE AGGREGATE DENSE ¾"
- (U) 3½" BASE AGGREGATE DENSE ¾"



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 49	E

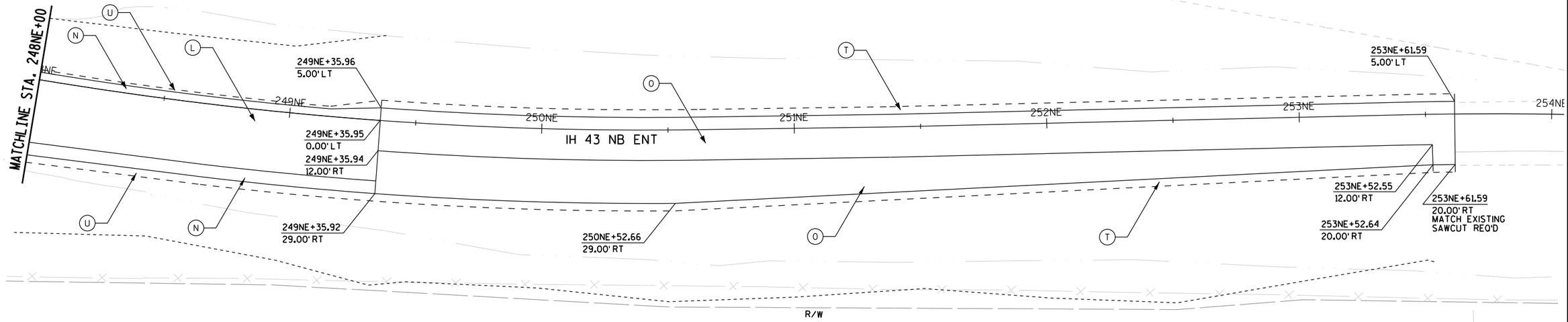
LEGEND

- (A) CONCRETE CURB & GUTTER 18-INCH, TYPE A
- (B) CONCRETE CURB & GUTTER 30-INCH, TYPE A
- (C) CONCRETE CURB PEDESTRIAN
- (D) CONCRETE SIDEWALK 5-INCH
- (E) CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH
- (F) CURB RAMP DETECTABLE WARNING FIELD (YELLOW)
- (G) CONCRETE MEDIAN SLOPED NOSE
- (H) CURB RAMP TYPE 1-A
- (I) CURB RAMP TYPE 3
- (J) CURB RAMP TYPE 4B1
- (K) CURB RAMP TYPE 6
- (L) CONCRETE PAVEMENT 8-INCH (DOWELED)
- (M) 2" HMA PAVEMENT TYPE E-3
- (N) 3½" HMA PAVEMENT TYPE E-0.3
- (O) 4" HMA PAVEMENT TYPE E-3
- (P) 5" HMA PAVEMENT TYPE E-3
- (O) ASPHALTIC SURFACE
- (R) SLOPE PAVING SELECT CRUSHED MATERIAL
- (S) SLOPE PAVING CONCRETE
- (T) 4" BASE AGGREGATE DENSE ¾-INCH
- (U) 3½" BASE AGGREGATE DENSE ¾-INCH



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 50	E

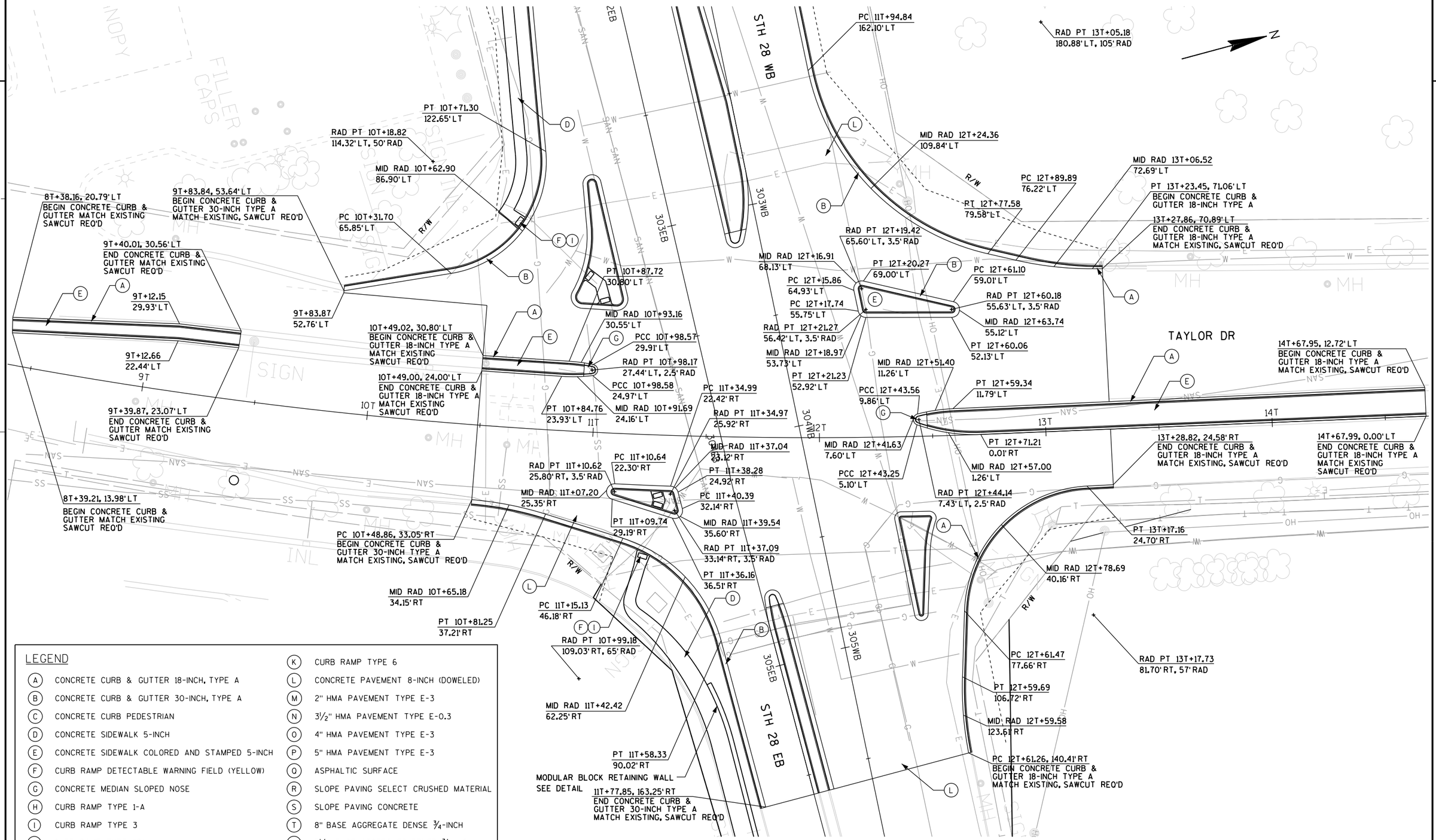
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LEGEND

A	CONCRETE CURB & GUTTER 18-INCH, TYPE A	K	CURB RAMP TYPE 6
B	CONCRETE CURB & GUTTER 30-INCH, TYPE A	L	CONCRETE PAVEMENT 8-INCH (DOWELED)
C	CONCRETE CURB PEDESTRIAN	M	2" HMA PAVEMENT TYPE E-3
D	CONCRETE SIDEWALK 5-INCH	N	3½" HMA PAVEMENT TYPE E-0.3
E	CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH	O	4" HMA PAVEMENT TYPE E-3
F	CURB RAMP DETECTABLE WARNING FIELD (YELLOW)	P	5" HMA PAVEMENT TYPE E-3
G	CONCRETE MEDIAN SLOPED NOSE	Q	ASPHALTIC SURFACE
H	CURB RAMP TYPE 1-A	R	SLOPE PAVING SELECT CRUSHED MATERIAL
I	CURB RAMP TYPE 3	S	SLOPE PAVING CONCRETE
J	CURB RAMP TYPE 4B1	T	4" BASE AGGREGATE DENSE ¾"
		U	3½" BASE AGGREGATE DENSE ¾"

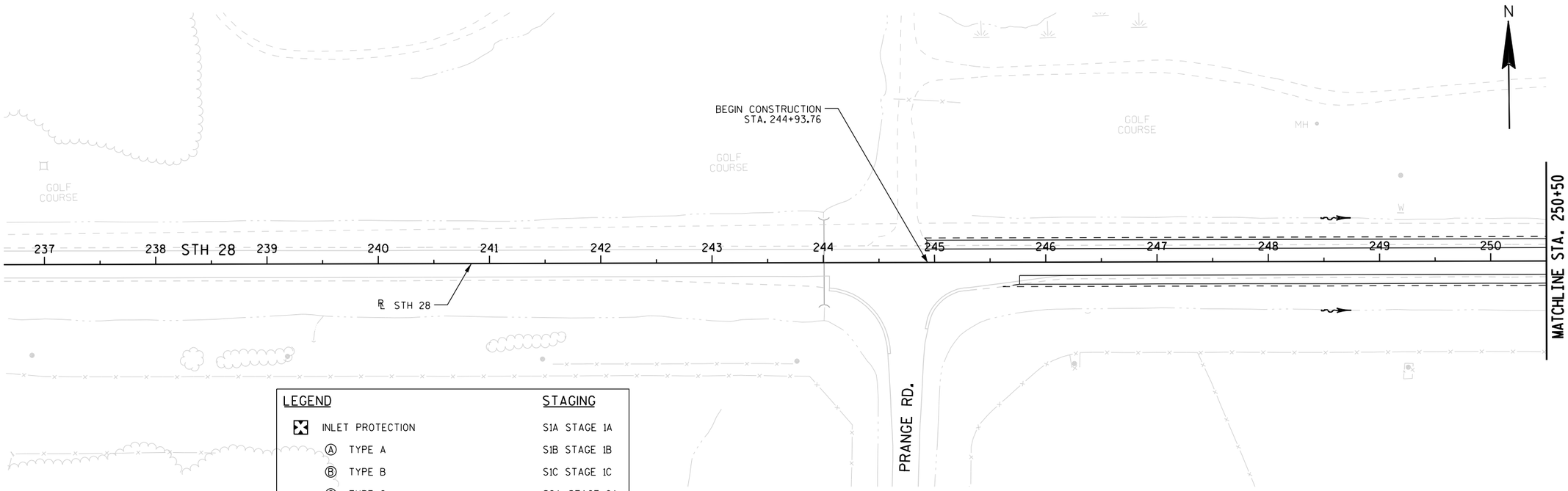
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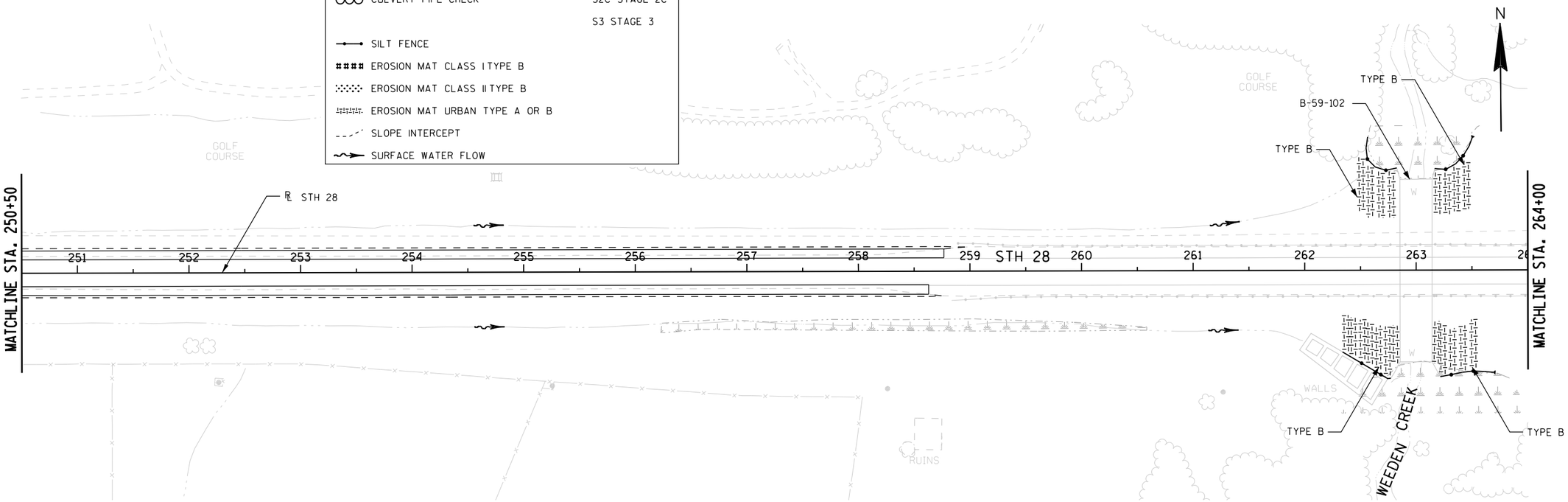
LEGEND

A	CONCRETE CURB & GUTTER 18-INCH, TYPE A	K	CURB RAMP TYPE 6
B	CONCRETE CURB & GUTTER 30-INCH, TYPE A	L	CONCRETE PAVEMENT 8-INCH (DOWELED)
C	CONCRETE CURB PEDESTRIAN	M	2" HMA PAVEMENT TYPE E-3
D	CONCRETE SIDEWALK 5-INCH	N	3½" HMA PAVEMENT TYPE E-0.3
E	CONCRETE SIDEWALK COLORED AND STAMPED 5-INCH	O	4" HMA PAVEMENT TYPE E-3
F	CURB RAMP DETECTABLE WARNING FIELD (YELLOW)	P	5" HMA PAVEMENT TYPE E-3
G	CONCRETE MEDIAN SLOPED NOSE	Q	ASPHALTIC SURFACE
H	CURB RAMP TYPE 1-A	R	SLOPE PAVING SELECT CRUSHED MATERIAL
I	CURB RAMP TYPE 3	S	SLOPE PAVING CONCRETE
J	CURB RAMP TYPE 4B1	T	8" BASE AGGREGATE DENSE ¾-INCH
		U	3½" BASE AGGREGATE DENSE ¾-INCH

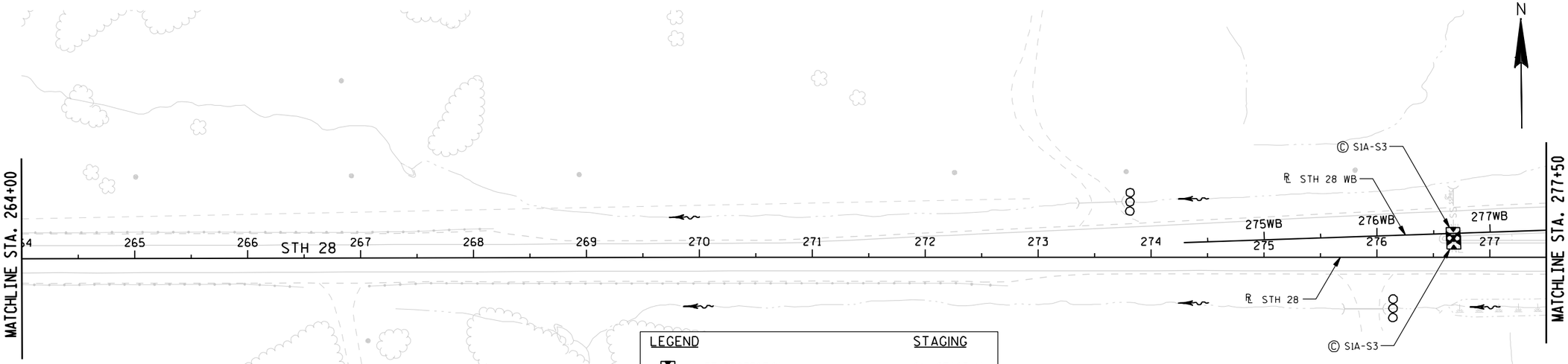
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PAVING DETAILS	SHEET 52	E



LEGEND	STAGING
INLET PROTECTION	S1A STAGE 1A
Ⓐ TYPE A	S1B STAGE 1B
Ⓑ TYPE B	S1C STAGE 1C
Ⓒ TYPE C	S2A STAGE 2A
ROCK BAGS	S2B STAGE 2B
CULVERT PIPE CHECK	S2C STAGE 2C
	S3 STAGE 3
SILT FENCE	
EROSION MAT CLASS I TYPE B	
EROSION MAT CLASS II TYPE B	
EROSION MAT URBAN TYPE A OR B	
SLOPE INTERCEPT	
SURFACE WATER FLOW	

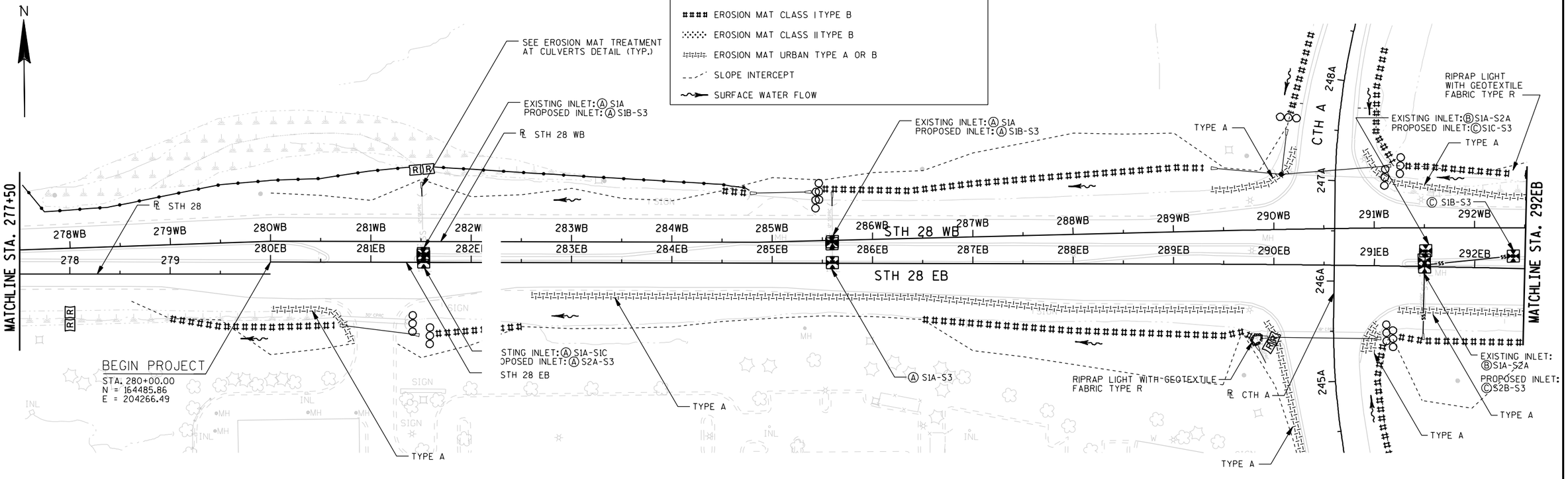


PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 53	E



N

LEGEND	STAGING
INLET PROTECTION	S1A STAGE 1A
Ⓐ TYPE A	S1B STAGE 1B
Ⓑ TYPE B	S1C STAGE 1C
Ⓒ TYPE C	S2A STAGE 2A
R ROCK BAGS	S2B STAGE 2B
CULVERT PIPE CHECK	S2C STAGE 2C
	S3 STAGE 3
SILT FENCE	
EROSION MAT CLASS I TYPE B	
EROSION MAT CLASS II TYPE B	
EROSION MAT URBAN TYPE A OR B	
SLOPE INTERCEPT	
SURFACE WATER FLOW	

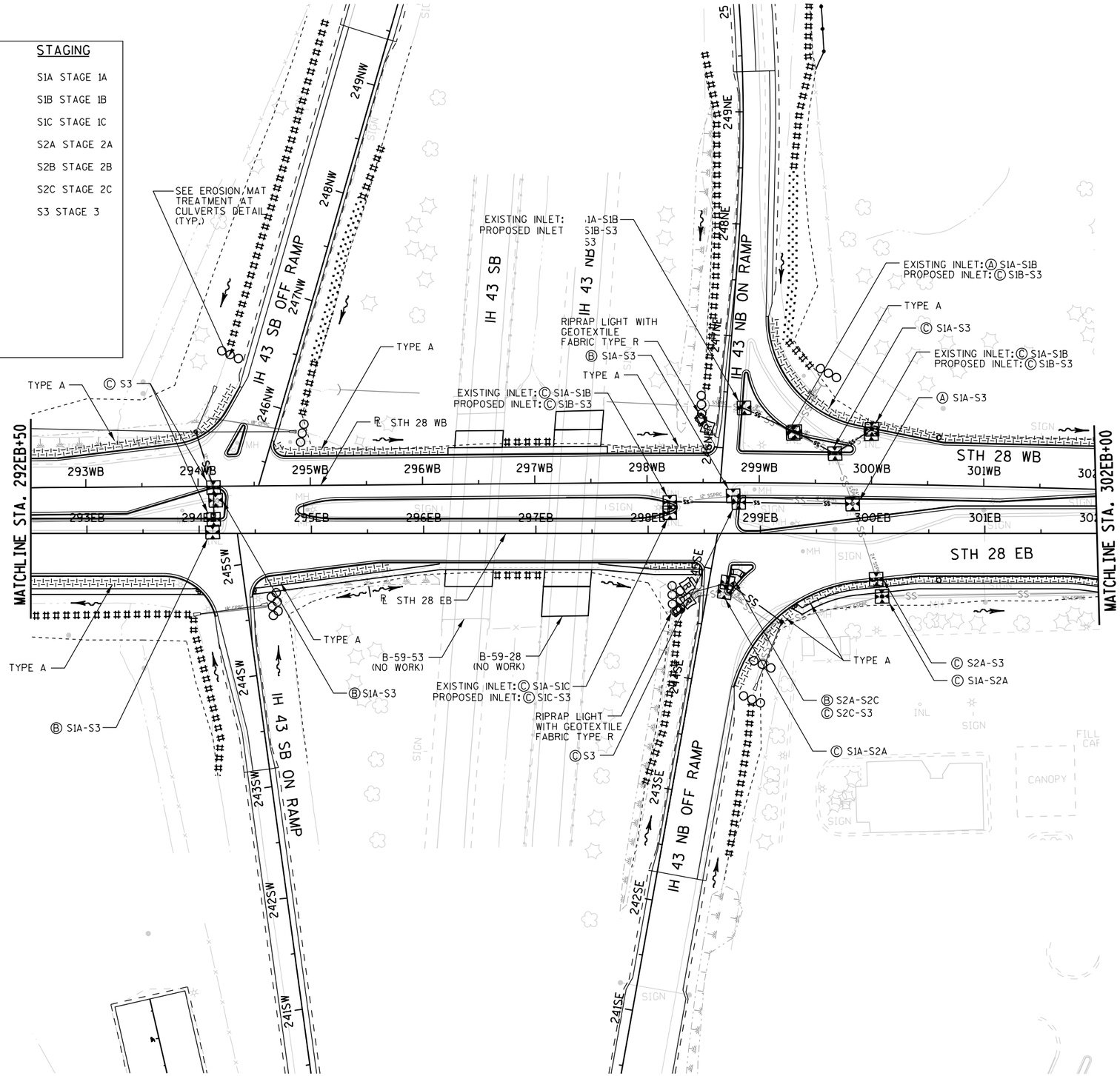


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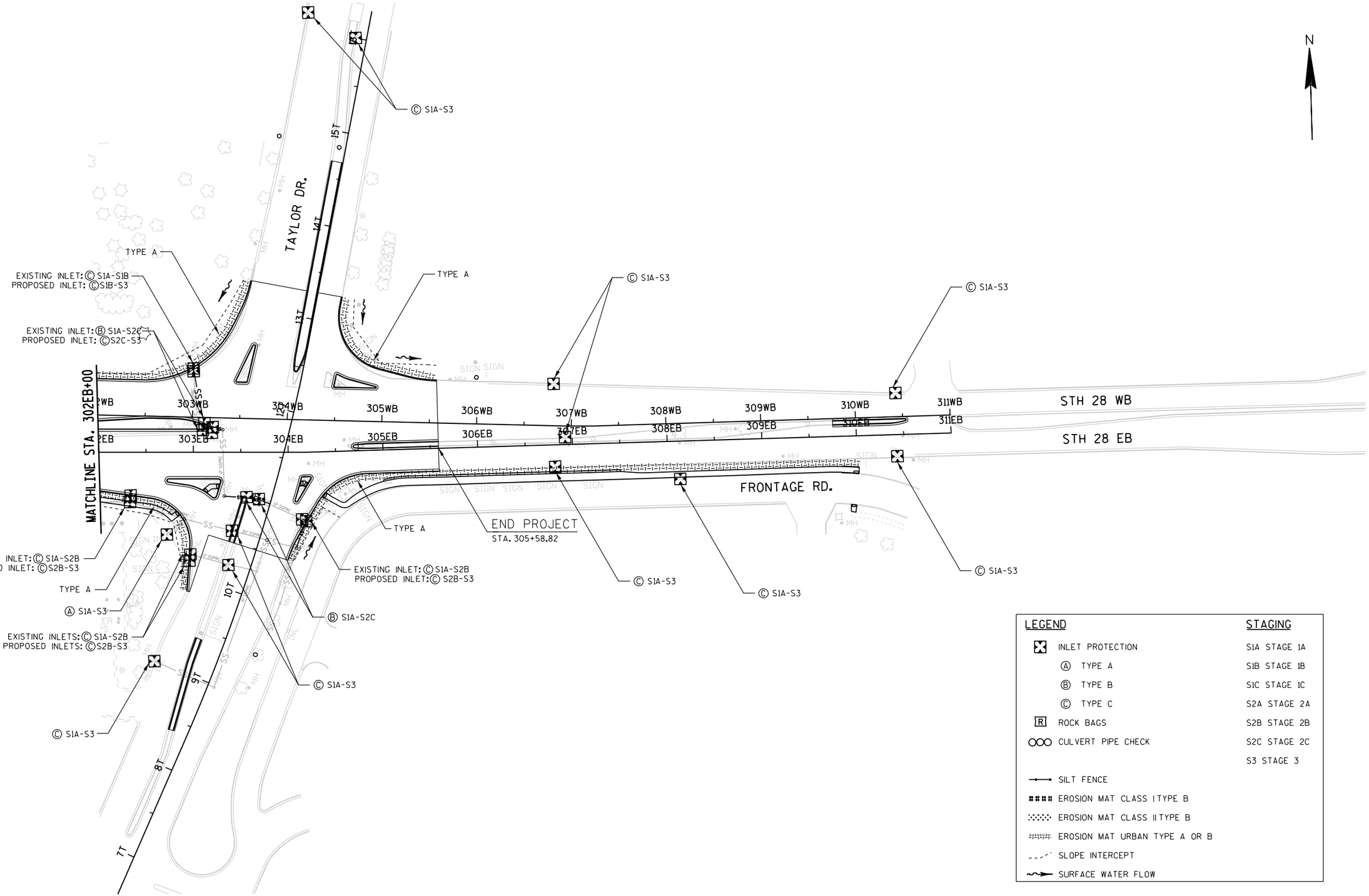
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 54	E

2

LEGEND	STAGING
INLET PROTECTION	S1A STAGE 1A
Ⓐ TYPE A	S1B STAGE 1B
Ⓑ TYPE B	S1C STAGE 1C
Ⓒ TYPE C	S2A STAGE 2A
Ⓡ ROCK BAGS	S2B STAGE 2B
CULVERT PIPE CHECK	S2C STAGE 2C
	S3 STAGE 3
SILT FENCE	
EROSION MAT CLASS I TYPE B	
EROSION MAT CLASS II TYPE B	
EROSION MAT URBAN TYPE A OR B	
SLOPE INTERCEPT	
SURFACE WATER FLOW	



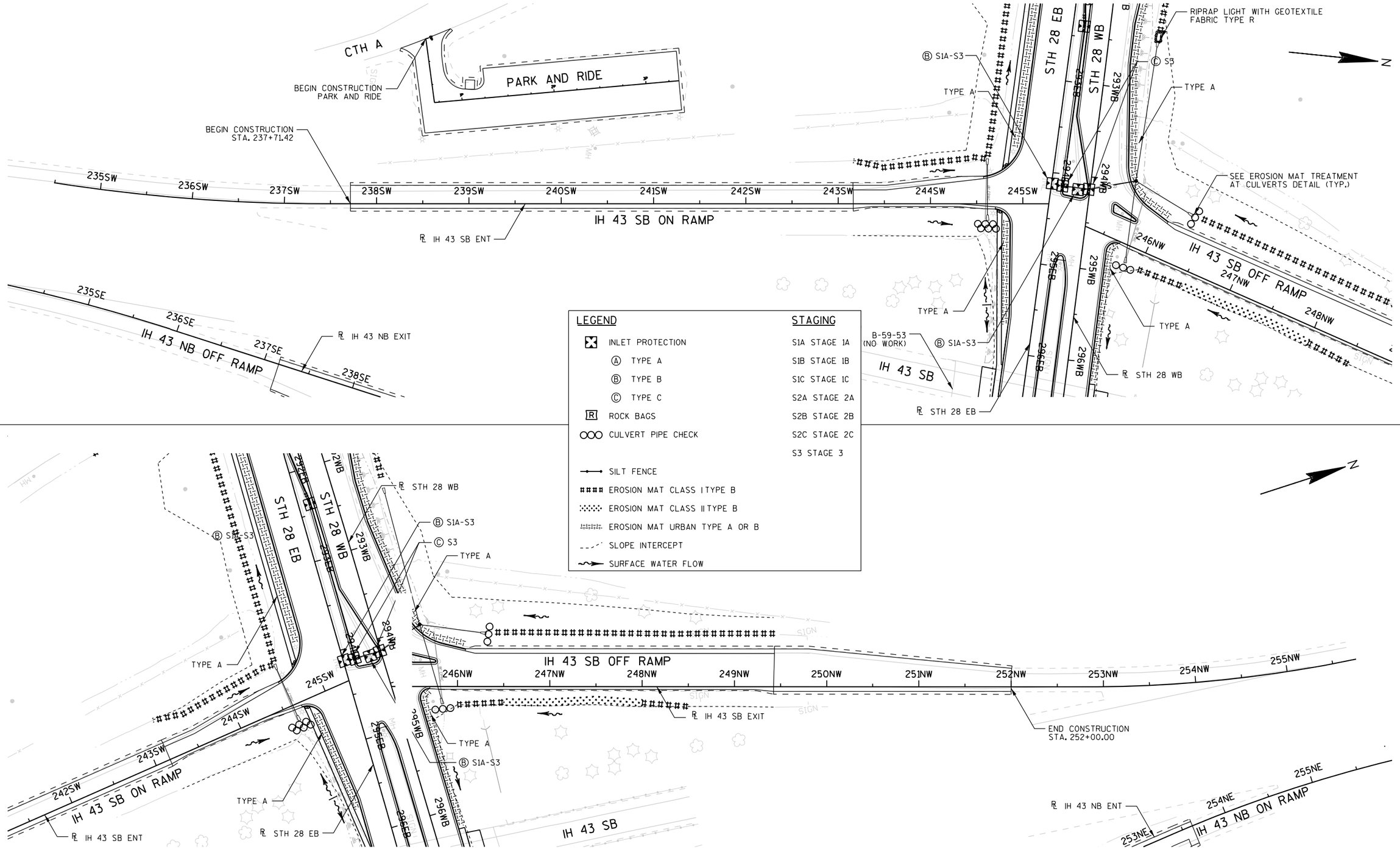
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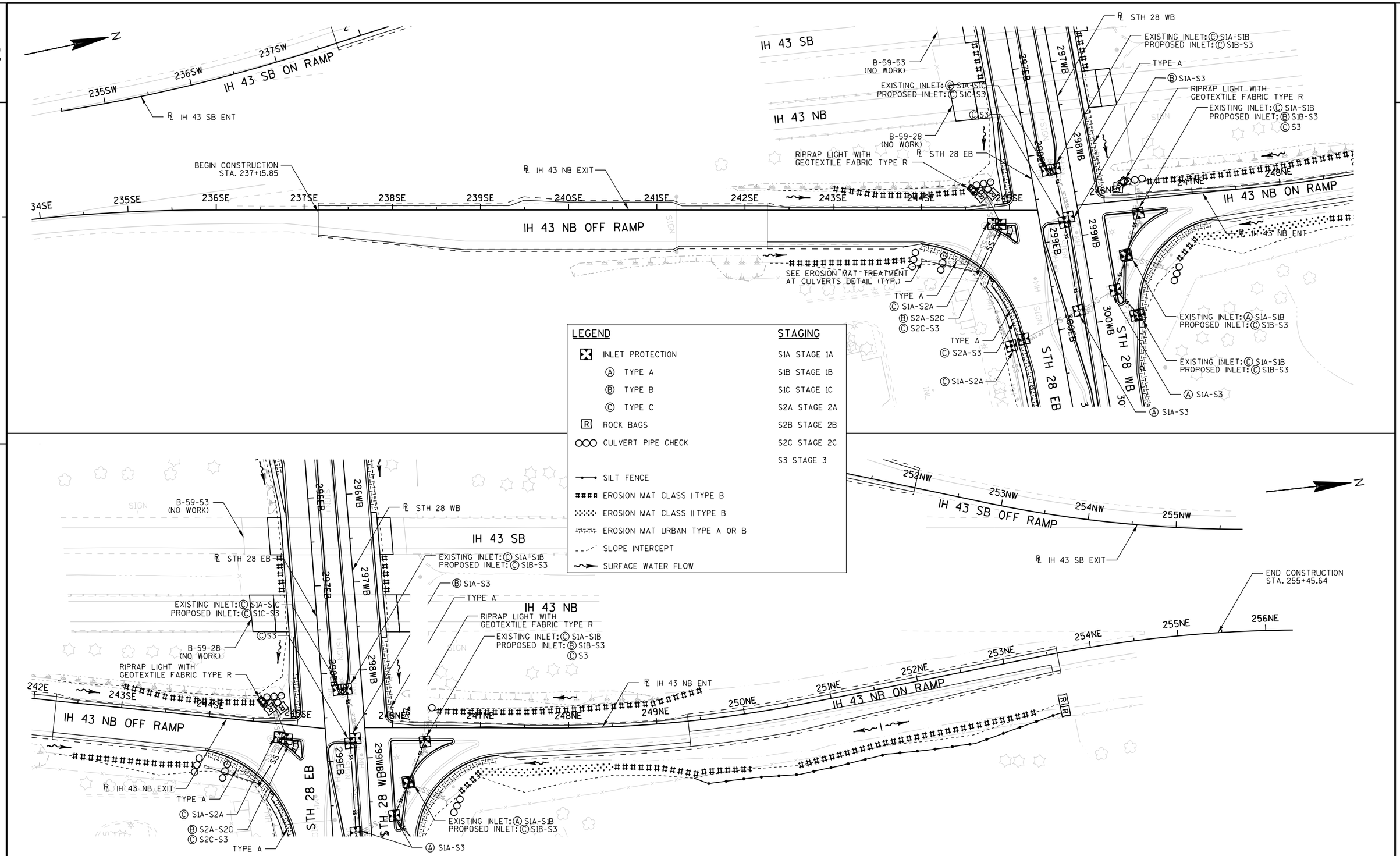
LEGEND	STAGING
INLET PROTECTION	S1A STAGE 1A
Ⓐ TYPE A	S1B STAGE 1B
Ⓑ TYPE B	S1C STAGE 1C
Ⓒ TYPE C	S2A STAGE 2A
R ROCK BAGS	S2B STAGE 2B
CULVERT PIPE CHECK	S2C STAGE 2C
	S3 STAGE 3
SILT FENCE	
EROSION MAT CLASS I TYPE B	
EROSION MAT CLASS II TYPE B	
EROSION MAT URBAN TYPE A OR B	
SLOPE INTERCEPT	
SURFACE WATER FLOW	

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 56	E

2



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET 57	E



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	EROSION CONTROL	SHEET	E

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STA 281EB+50, 73.88'LT
APRON ENDWALLS FOR CPRC 12-INCH P3

SLOPE INTERCEPT

STA 284EB+84, 69.67'LT
P42 APRON ENDWALLS FOR CPRC 18-INCH

STA 285EB+60, 64.92'LT
APRON ENDWALLS FOR CPRC 12-INCH P5

PROPOSED DITCH BOTTOM (TYP)

STA 281EB+52, 9.70'LT
INLETS 2X3 FT, COVERS TYPE H P2

P43 STA 285EB+33, 70.80'LT
APRON ENDWALLS FOR CPRC 18-INCH

STA 285EB+60, 22.68'LT
INLETS 2X3 FT, COVERS TYPE H P4

STA 281EB+52, 0'LT
INLETS 2X3 FT, COVERS TYPE H P1

STA 285EB+60, 0'LT
INLET COVERS TYPE H 4

STA 280EB+76, 63.59'RT
APRON ENDWALLS FOR CPRC 18-INCH P40

STA 281EB+42, 71.65'RT
APRON ENDWALLS FOR CPRC 18-INCH P41

STH 28 WEST

STH 28 EAST

281WB 282WB 283WB 284WB 285WB 286WB

281EB 282EB 283EB 284EB 285EB 286EB

12" SSPRC

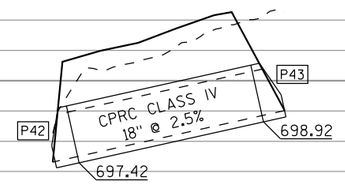
DUAL 16" F.M.

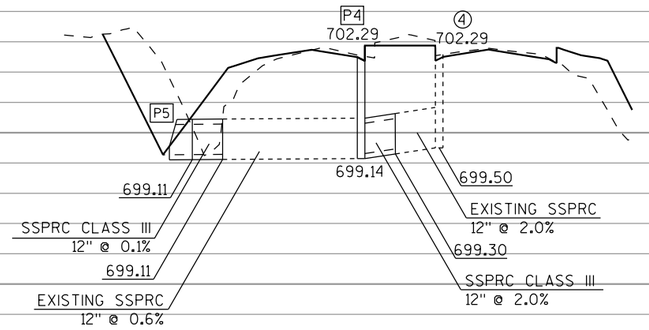
30" CPRC

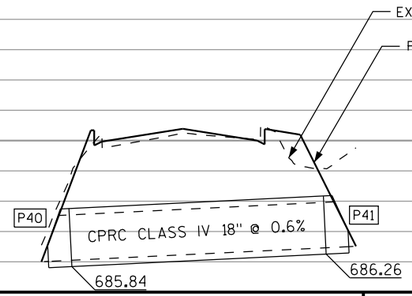
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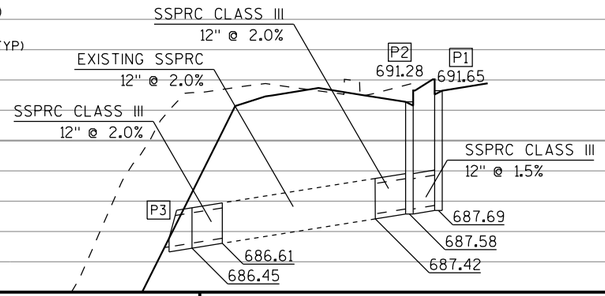
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P1 PROPOSED STRUCTURE NUMBER





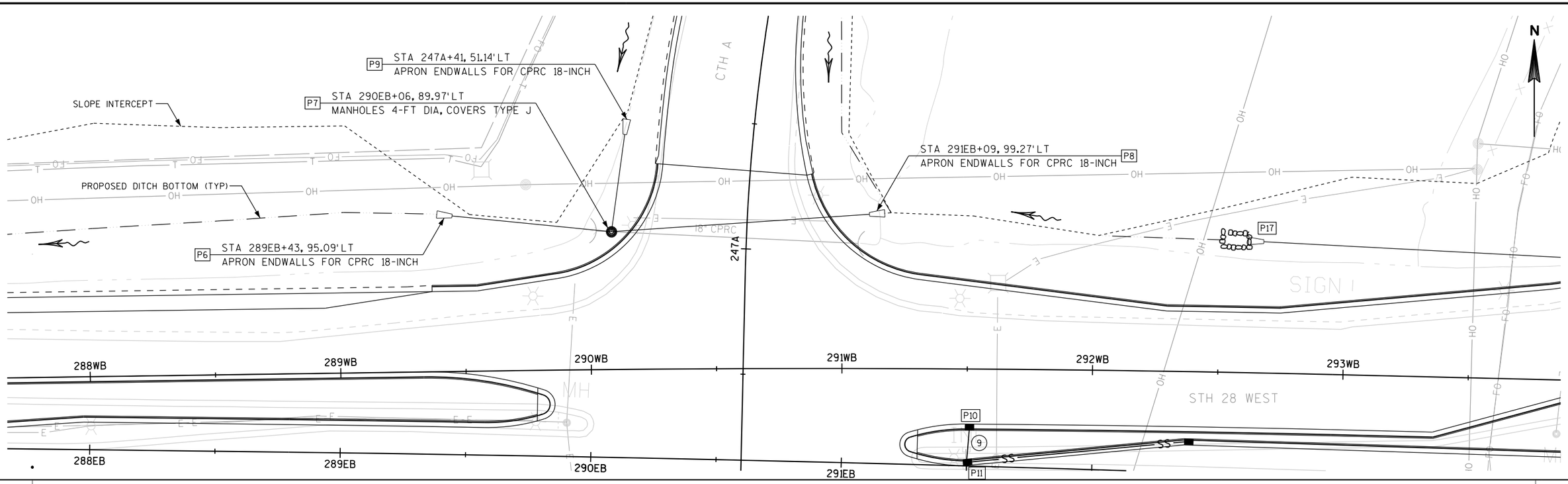


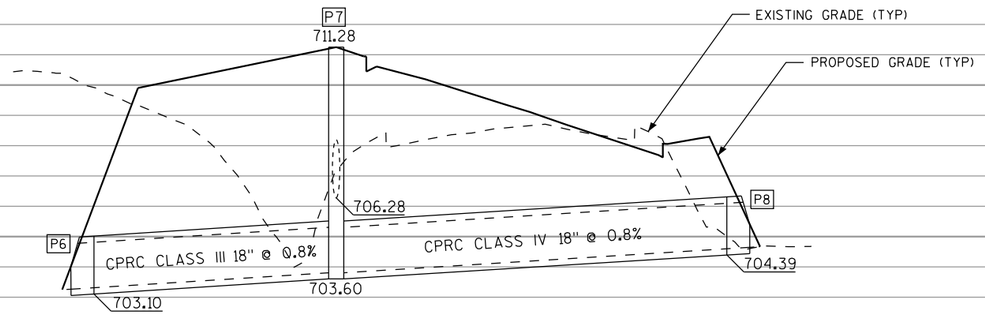


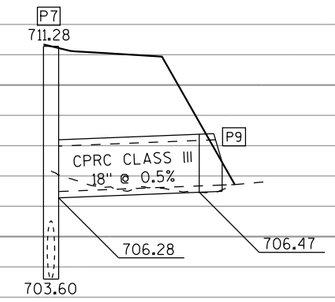
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PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 59	E

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LEGEND

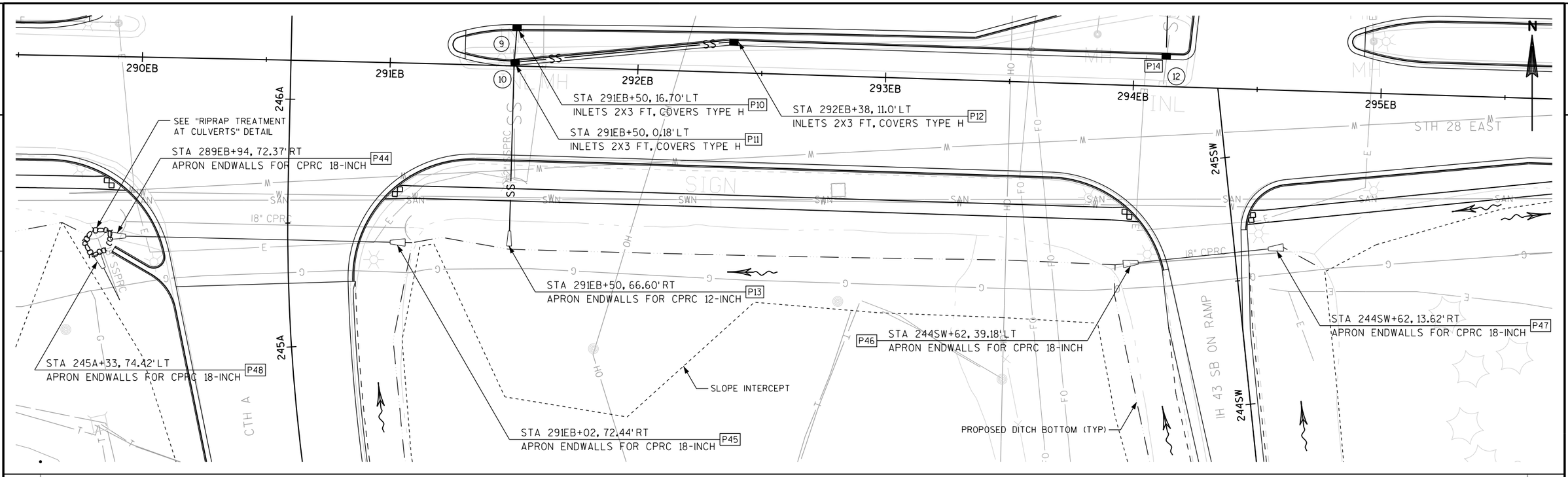
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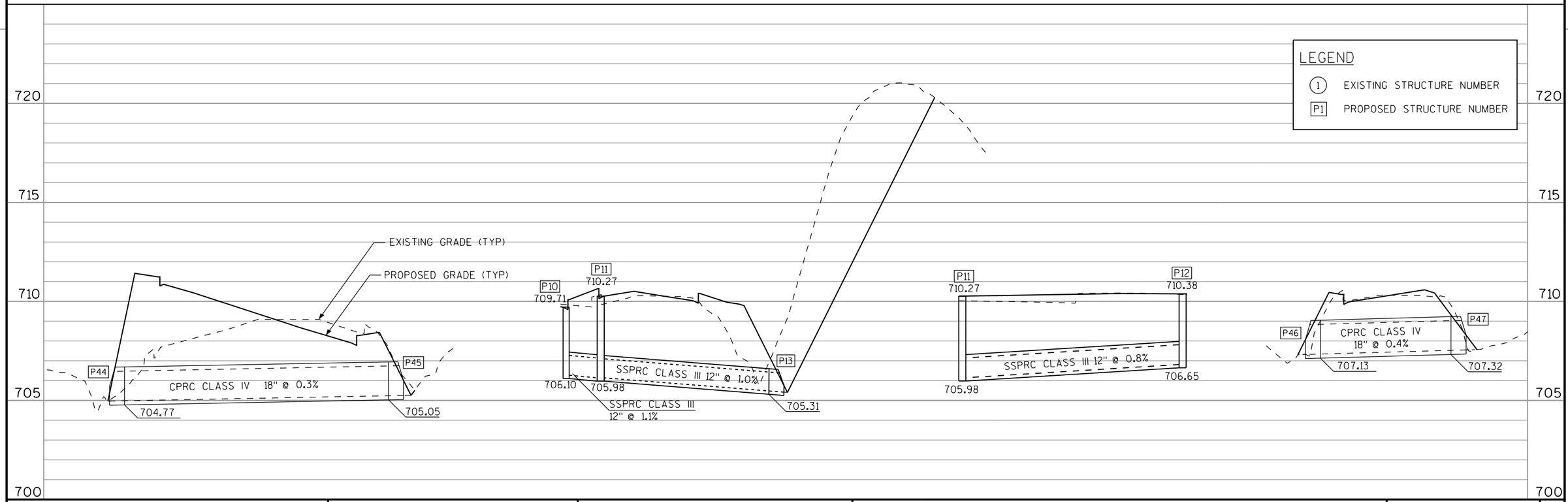
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PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 60	E

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WISDOT/CADDS SHEET 41





PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 61 E

2

P18 STA 245NW+83, 63.97'LT
APRON ENDWALLS FOR CPRC 18-INCH

P16 STA 293EB+97, 90.38'LT
MANHOLES 5-FT DIA, COVERS TYPE J

P17 STA 292EB+66, 93.11'LT
APRON ENDWALLS FOR CPRC 18-INCH

SEE "RIPRAP TREATMENT AT CULVERTS" DETAIL

SLOPE INTERCEPT

IH 43 SB OFF RAMP

246NW

18" CPRC

STA 245NW+81, 9.98'RT
APRON ENDWALLS FOR CPRC 18-INCH P19

PROPOSED DITCH BOTTOM (TYP)

P15 STA 294EB+12, 42.0'LT
INLETS 2X3 FT, COVERS TYPE H

292WB 293WB 294WB 295WB 296WB 297WB

STH 28 WEST

P12

292EB 293EB 294EB 295EB 296EB

STH 28 EAST

P14 STA 294EB+13, 11.0'LT
INLETS 2X3 FT, COVERS TYPE H

N

LEGEND

(1) EXISTING STRUCTURE NUMBER

P1 PROPOSED STRUCTURE NUMBER

720 715 710 705 700

P14 710.50 P15 710.34 P16 710.64 P18

707.17 707.05 706.93 706.35 706.08

SSPRC CLASS III 12" @ 0.5%

SSPRC CLASS III 12" @ 1.4%

CPRC CLASS IV 18" @ 1.3%

EXISTING GRADE (TYP)

PROPOSED GRADE (TYP)

P16 710.64 P19

P17 705.71

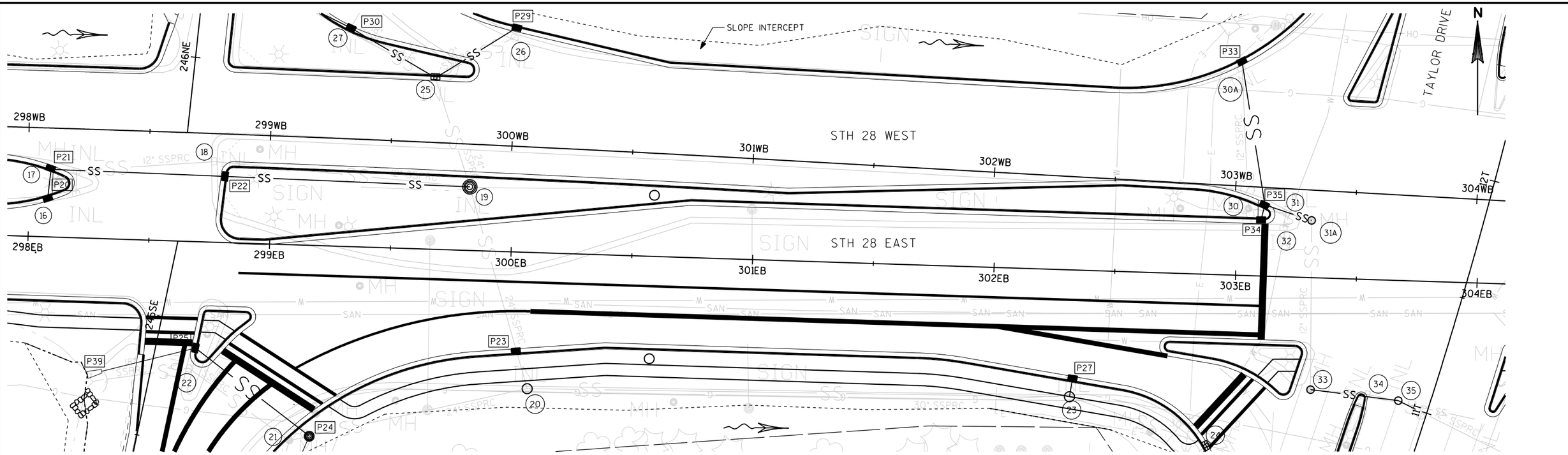
CPRC CLASS III 18" @ 0.5%

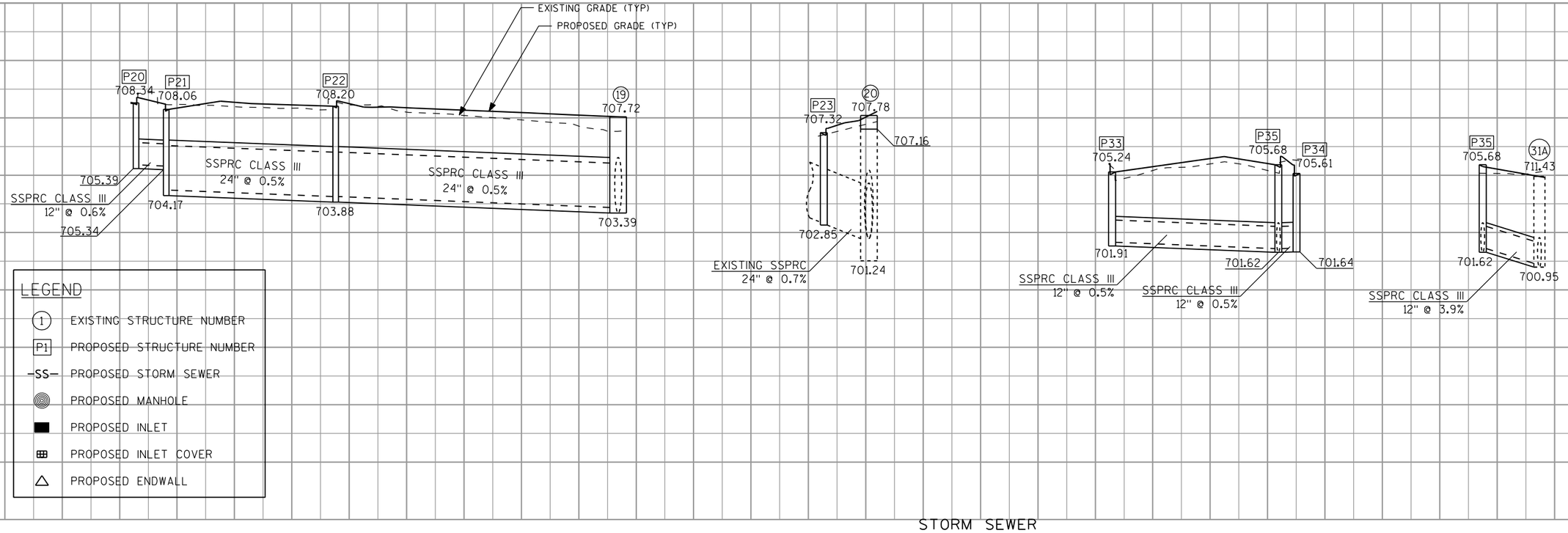
CPRC CLASS IV 18" @ 0.8%

706.93 706.35 706.99

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 62 E

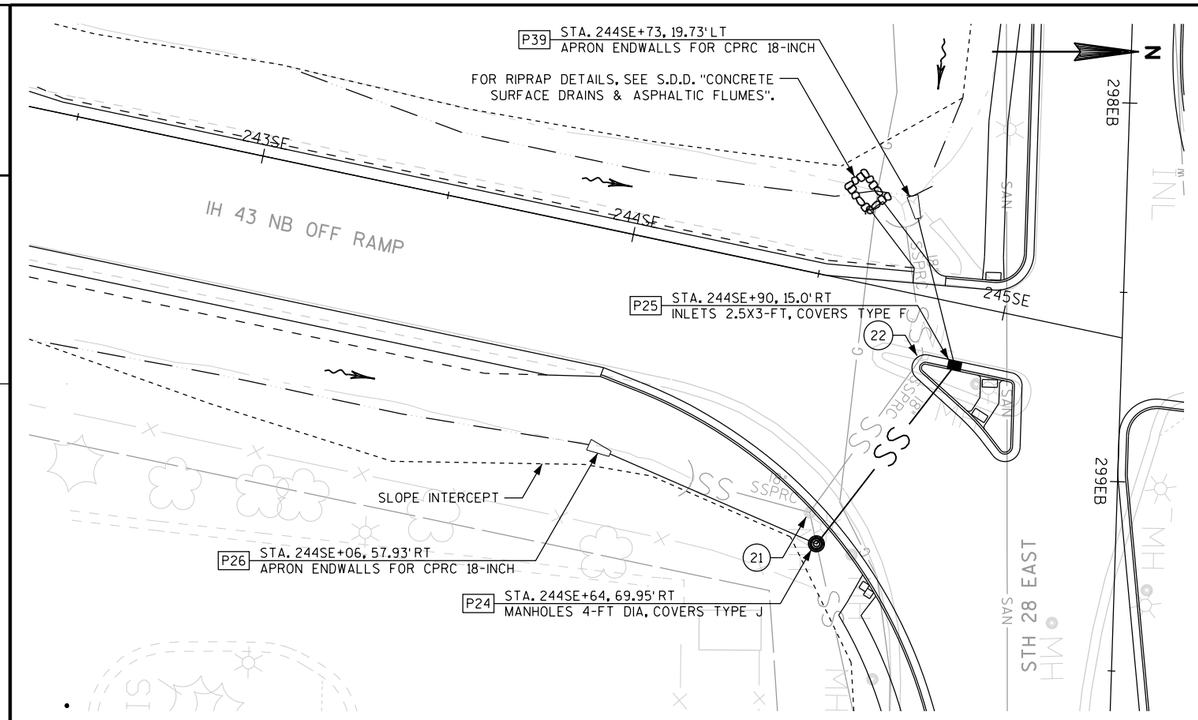
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WISDOT/CADDS SHEET 41

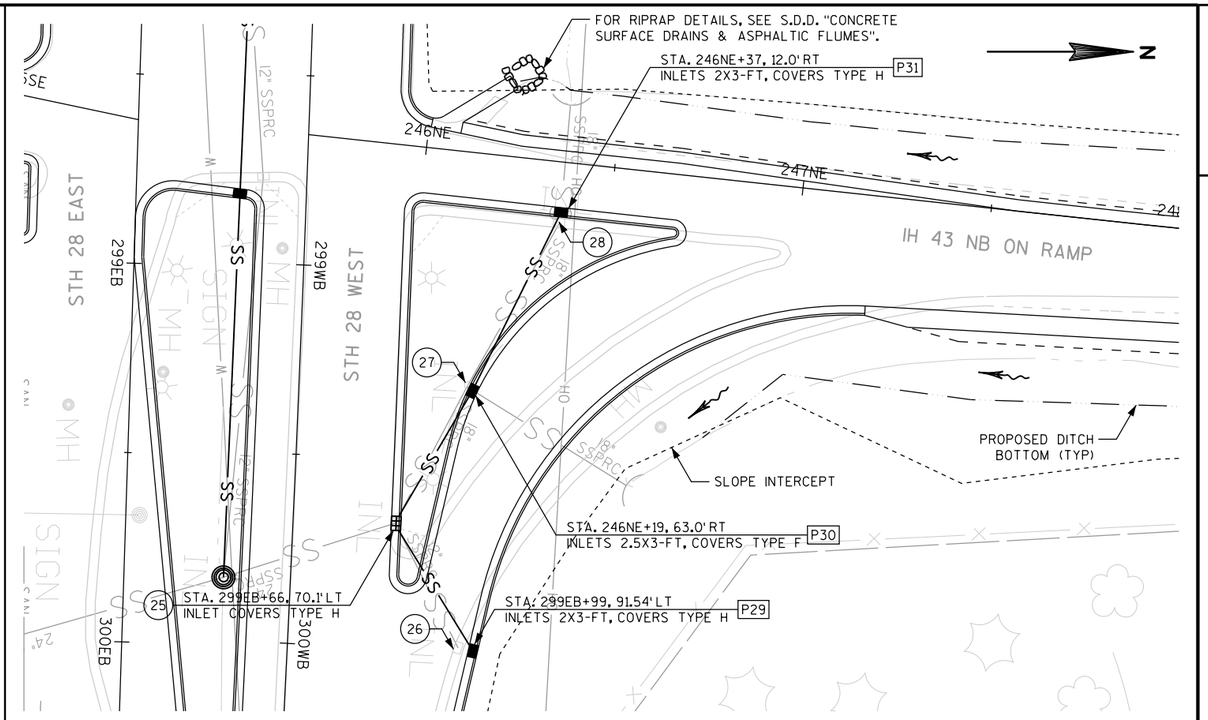


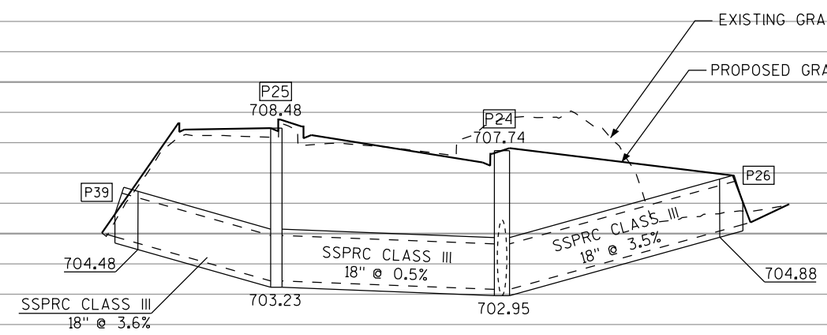


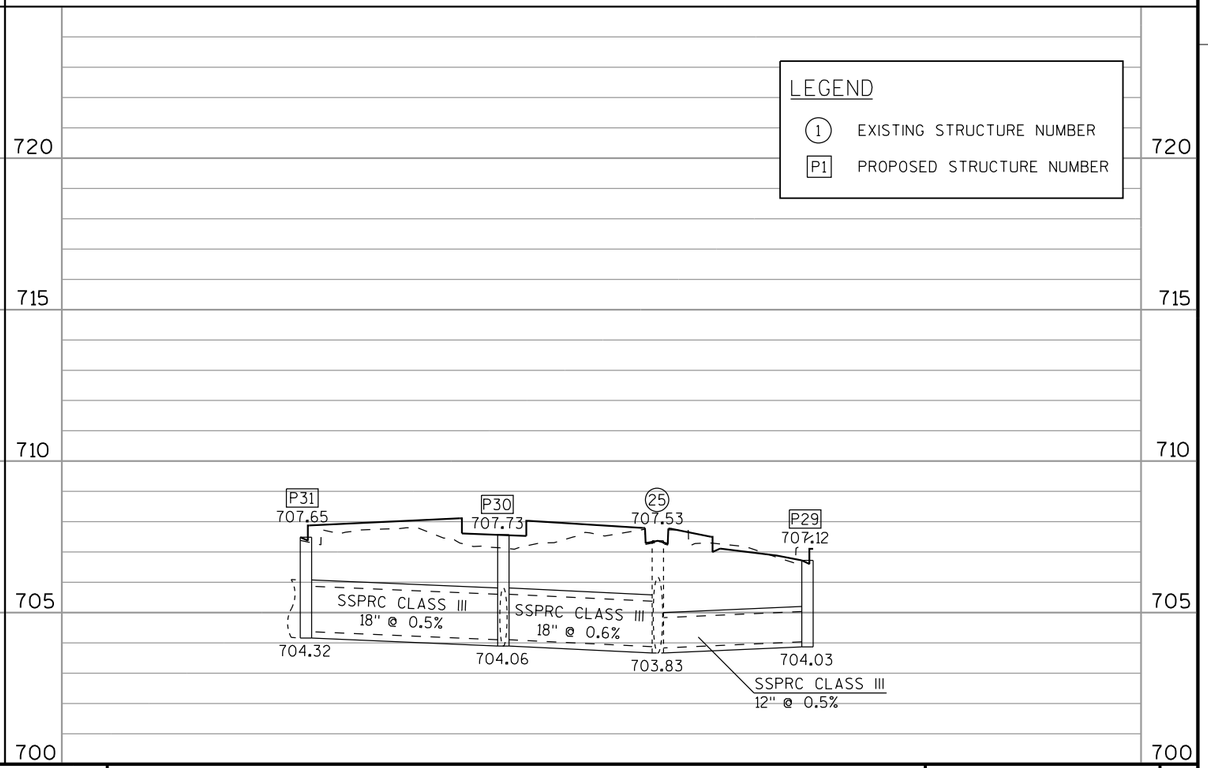
STORM SEWER

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN		SHEET 63	E









PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 64	E

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PLOT DATE: 4/29/2015
PLOT TIME: 10:35:02 AM
PLOT SCALE: 1:479.999
WISDOT/CADDS SHEET 41

STH 28 EAST

302EB 303EB 304EB 305EB 306EB 307EB 307WB

STA 302EB+34, 43.58' RT
INLETS 2X3 FT, COVERS TYPE H P27

STA 303EB+33, 46.32' RT
ADJUST MANHOLE COVERS 33

STA 302EB+33, 52.50' RT 23
MANHOLE COVERS TYPE J
ADD NEW FLAT TOP SLAB

STA 303EB+69, 49.68' RT 35
INLET COVERS TYPE C
ADD NEW FLAT TOP SLAB

STA 10T+93, 40.37' RT
INLETS 2X3 FT, COVERS TYPE H P38

24 STA 302EB+91, 70.17' RT
INLET COVERS TYPE H
ADD NEW FLAT TOP SLAB

STA 10T+64, 40.08' RT
ADJUST MANHOLE COVERS 42

P37 STA 10T+23, 64.95' LT
INLETS 2X3 FT, COVERS TYPE H

STA 10T+62, 7.71' RT
ADJUST MANHOLE COVERS 40

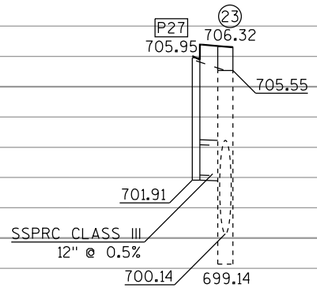
P36 STA 10T+16, 63.30' LT
INLETS 2X3 FT, COVERS TYPE H

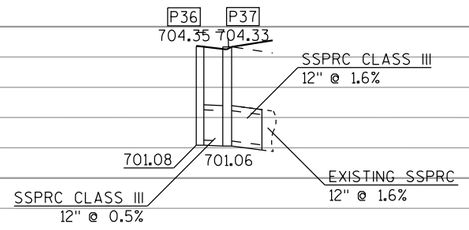
STA 10T+61, 30.88' LT
INLET COVERS TYPE H 39

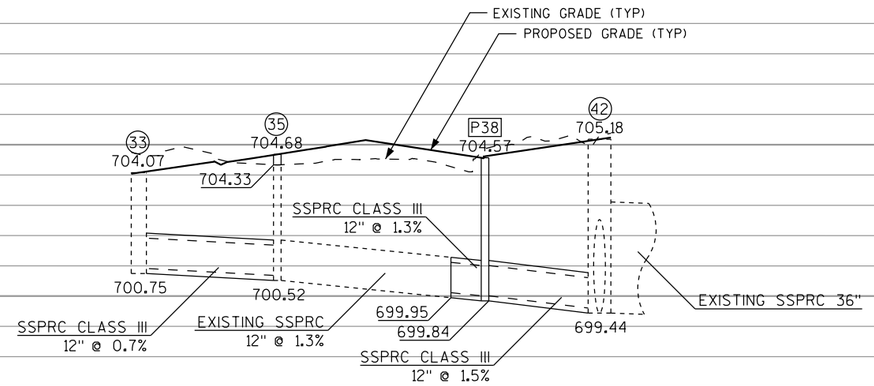
TAYLOR DR.

FRONTAGE ROAD

LEGEND
(1) EXISTING STRUCTURE NUMBER
P1 PROPOSED STRUCTURE NUMBER







PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	STORM SEWER	SHEET 65 E

FILE NAME: P:\60187755\000_CAD\001_Drawings\Sheets\022506_ss.dgn
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PLOT DATE: 4/29/2015
PLOT TIME: 10:35:02 AM
PLOT SCALE: 1:479.999
WISDOT/CADDS SHEET 41

2

GENERAL NOTES

1) DRAWINGS NOT TO SCALE

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

3) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTIAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT".

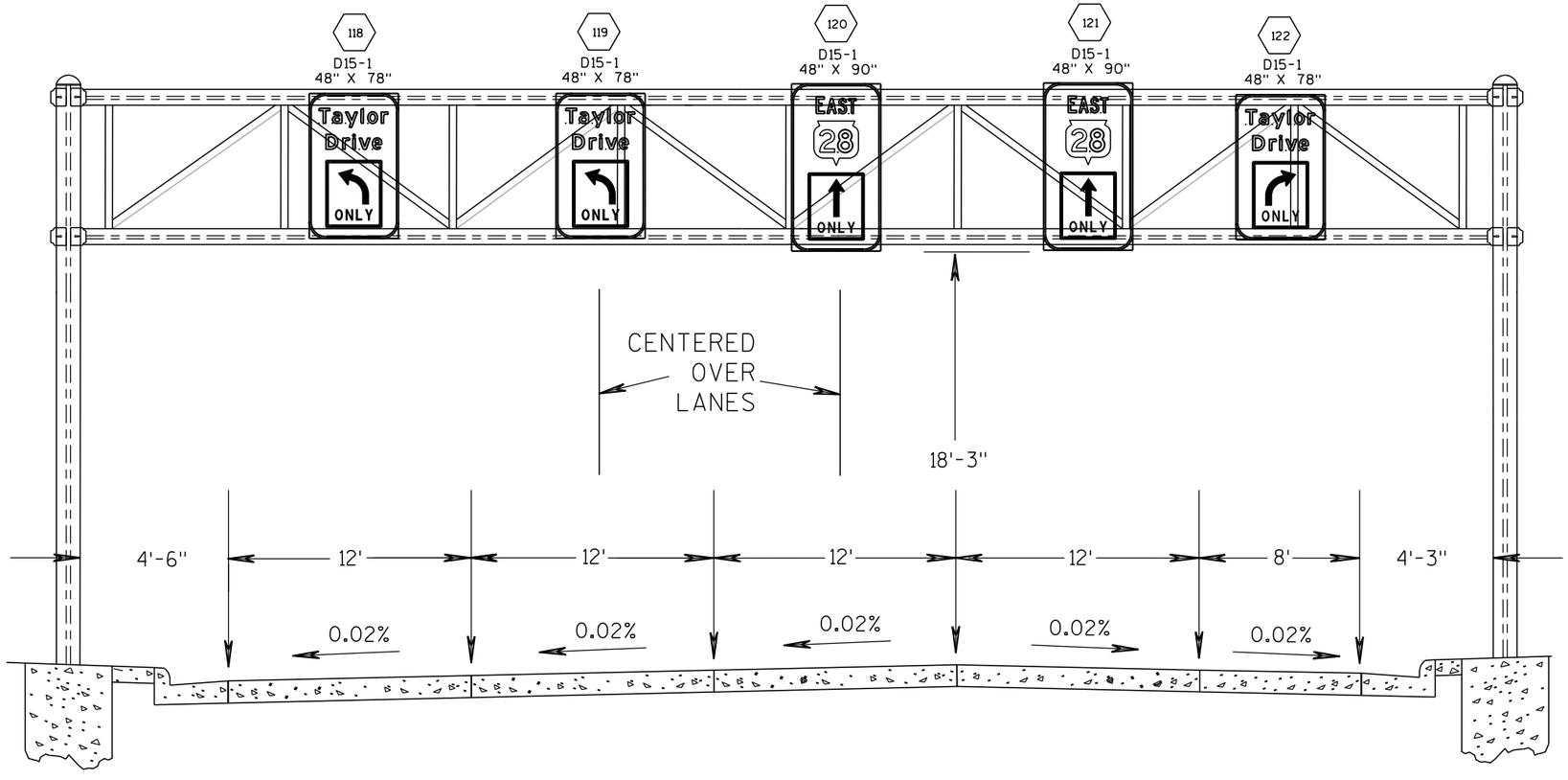
4) SIZE THE ANCHOR BOLT/TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS FOR A 36" DIAMETER BASE. IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.

5) PROVIDE DESIGN CALCULATIONS

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

7) SIGNS SHALL BE ATTACHED TO SIGN BRIDGE AS SHOWN ON STANDARD SIGN PLATE A4-7.

8) COMPLETELY RESTORE THE SURROUNDING DISTURBED AREA AS IT PREVIOUSLY WAS PRIOR TO EXCAVATING.



OVERHEAD SIGN STRUCTURE DETAIL

STH 28 EAST
S-59-20
STA 300+59'EB'

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	OVERHEAD SIGN CONSTRUCTION DETAILS	SHEET 66	E

2

GENERAL NOTES

1) DRAWINGS NOT TO SCALE

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

3) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTIAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT".

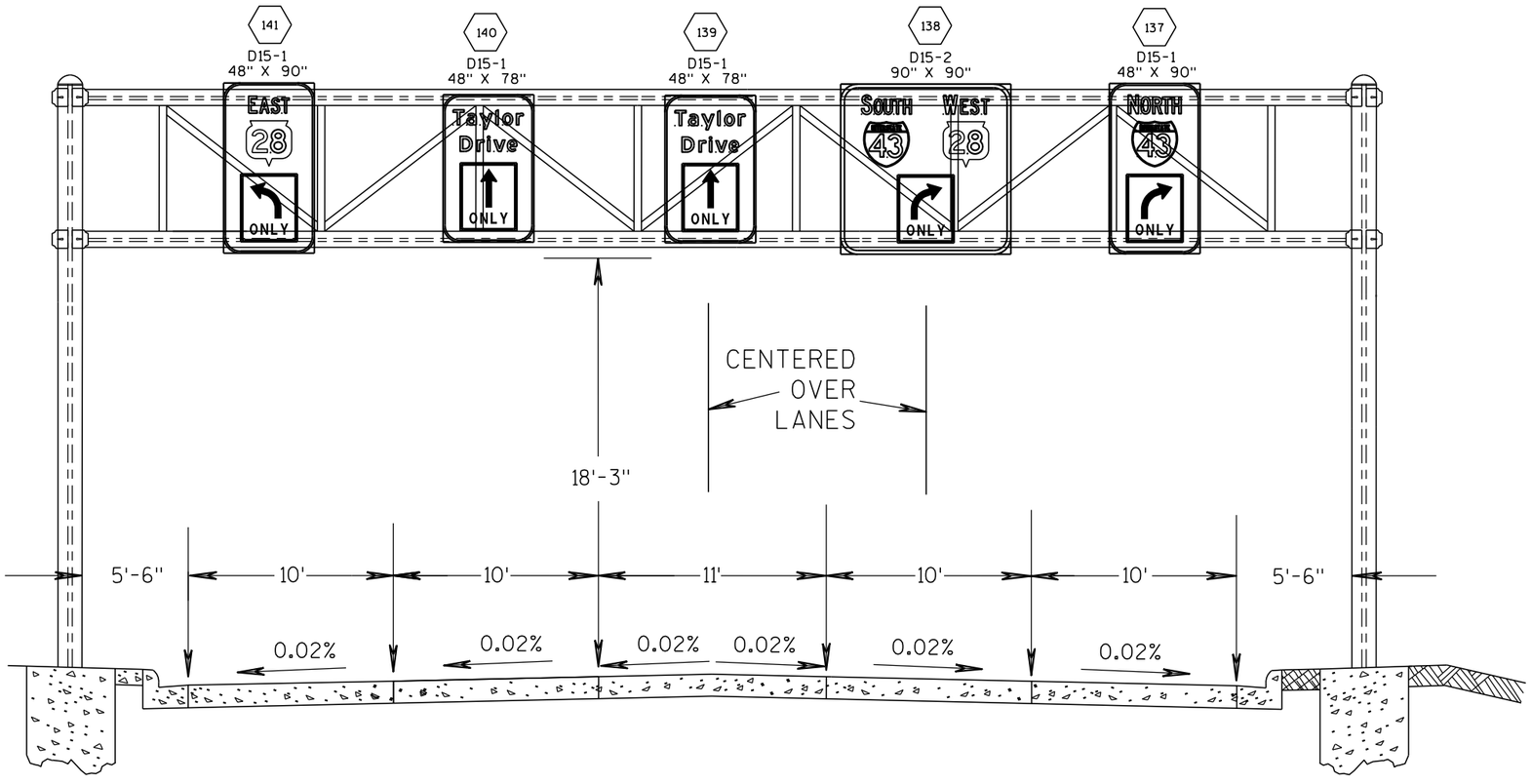
4) SIZE THE ANCHOR BOLT/TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS FOR A 36" DIAMETER BASE. IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.

5) PROVIDE DESIGN CALCULATIONS

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

7) SIGNS SHALL BE ATTACHED TO SIGN BRIDGE AS SHOWN ON STANDARD SIGN PLATE A4-7.

8) COMPLETELY RESTORE THE SURROUNDING DISTURBED AREA AS IT PREVIOUSLY WAS PRIOR TO EXCAVATING.



OVERHEAD SIGN STRUCTURE DETAIL

TAYLOR DR (STH 28)
S-59-24
STA 14+83'T'

2

GENERAL NOTES

1) DRAWINGS NOT TO SCALE

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

3) PROVIDE AN IDENTIFICATION PLAQUE FOR ALL OVERHEAD SIGN SUPPORTS, TO BE CONSIDERED INCIDENTIAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT".

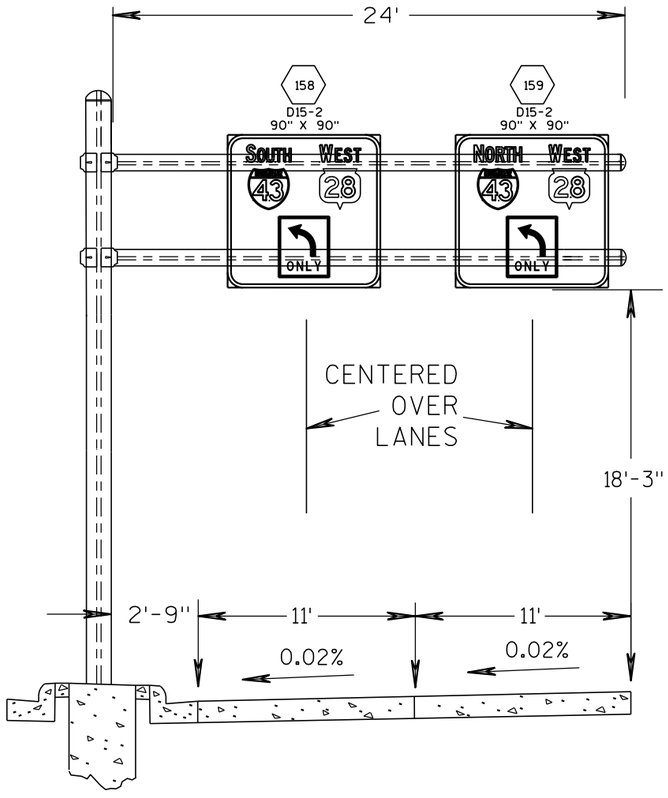
4) SIZE THE ANCHOR BOLT/TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS FOR A 42" DIAMETER BASE. IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.

5) PROVIDE DESIGN CALCULATIONS

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

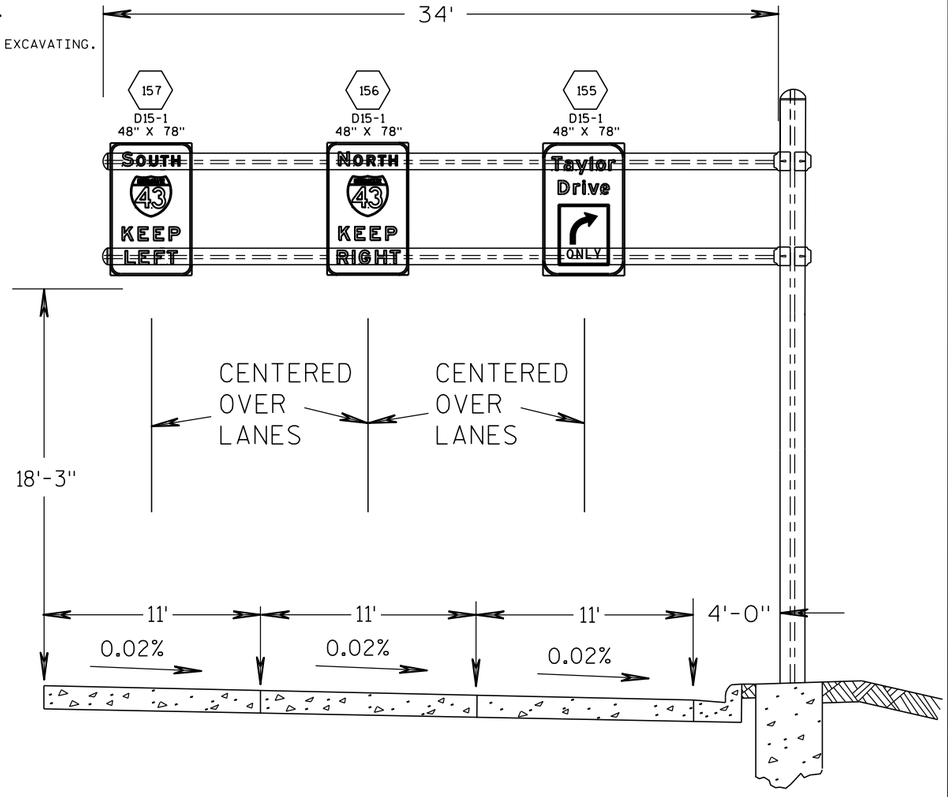
7) SIGNS SHALL BE ATTACHED TO SIGN CANTILEVER AS SHOWN ON STANDARD SIGN PLATE A4-7.

8) COMPLETELY RESTORE THE SURROUNDING DISTURBED AREA AS IT PREVIOUSLY WAS PRIOR TO EXCAVATING.



OVERHEAD SIGN MOUNTING STRUCTURE - 24' SPAN

TAYLOR DR (STH 28)
S-59-23
STA 9+46'T'



OVERHEAD SIGN MOUNTING STRUCTURE - 34' SPAN

STH 28 WB
S-59-22
STA 306+00'WB'

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	OVERHEAD SIGN CONSTRUCTION DETAILS	SHEET 68	E

(A) L 3" X 3" X 3/8" X 3" LG. WITH HOLE FOR 'B' & 'C'

(B) 1/2" DIA. X 4" LG. EXPANSION ANCHOR

(C) 1/2" DIA. STAINLESS STEEL BOLT

(D) L 6" X 3 1/2" X 3/8" X 3" LG. WITH HOLE IN 6" LEG FOR 'C' & HOLE IN 3 1/2" LEG FOR 'B'

(E) L 3" X 3" X 3/8" X 2'-6" LG. BOLT TO 'A' & 'D'

SIGN SUPPORT NOTES

FOR SIGNS #84 (MOUNT ON B-59-53) & #89 (MOUNT ON B-59-28)

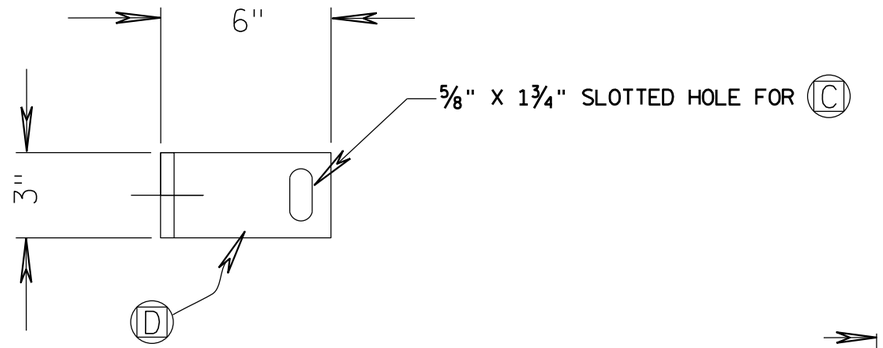
ALL A36 STEEL ANGLES & BARS TO BE GALVANIZED AFTER FABRICATION.

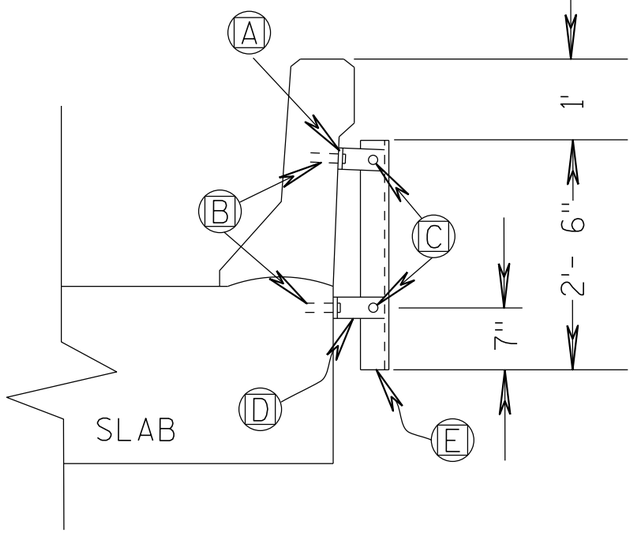
ALL BOLTS TO BE STAINLESS STEEL.

ALL HOLES TO BE 9/16" DIA. UNLESS OTHERWISE SHOWN.

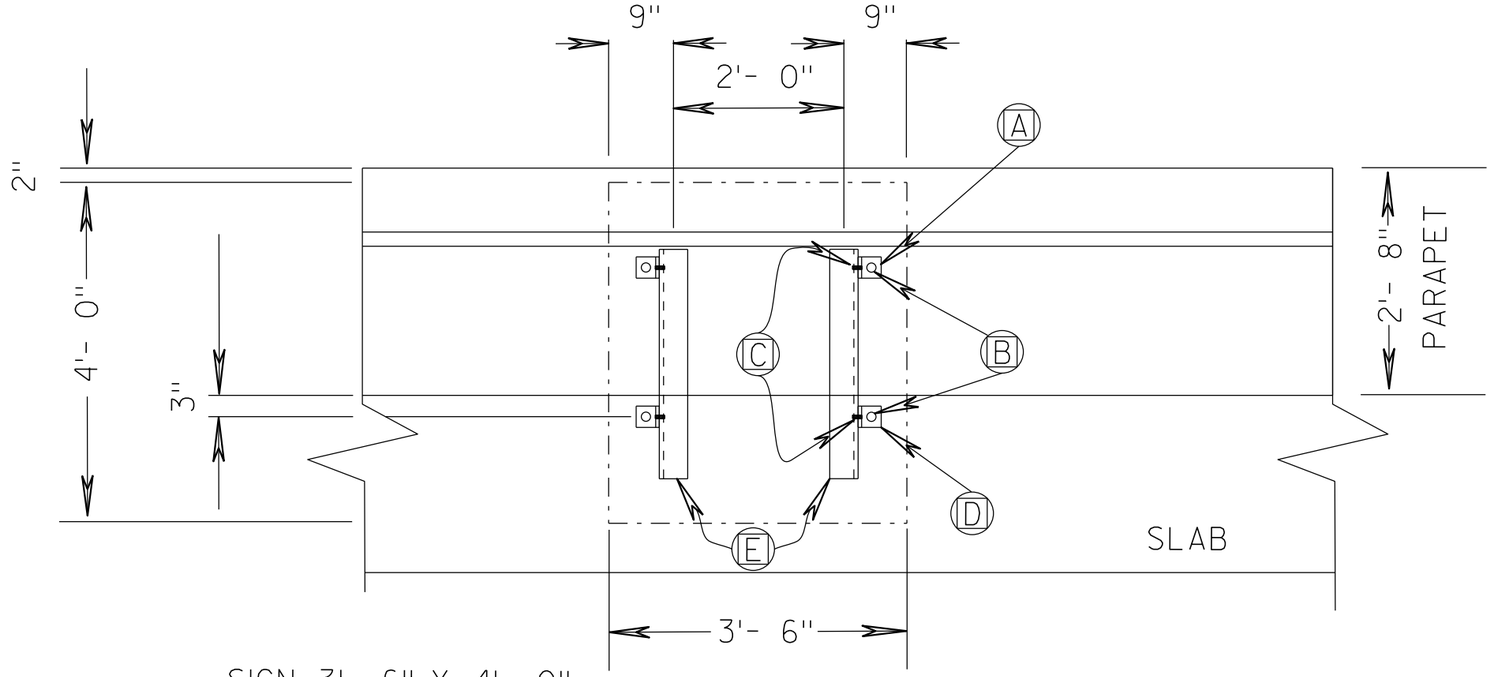
ALL BOLTS TO HAVE LOCKWASHERS.

ALL MATERIAL & WORK PREFORMED TO FABRICATE & ERECT NEW SUPPORTS & PLACE EXISTING TO BE INCLUDED IN BID ITEM.





SIDE VIEW



SIGN 3'- 6" X 4'- 0"

FRONT VIEW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CONSTRUCTION DETAIL-SIGNING MOUNT	SHEET NO: 69	E

2

2

N

244 245 246 247 248 249 250

STH 28

PRANGE RD.

1

STOP

R1-1
30" X 30"

2

STOP

R1-1
30" X 30"

LEGEND

- WOOD POST WITH SIGN
- SQUARE STEEL POST WITH SIGN
- SIGN-PLACE NEW

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

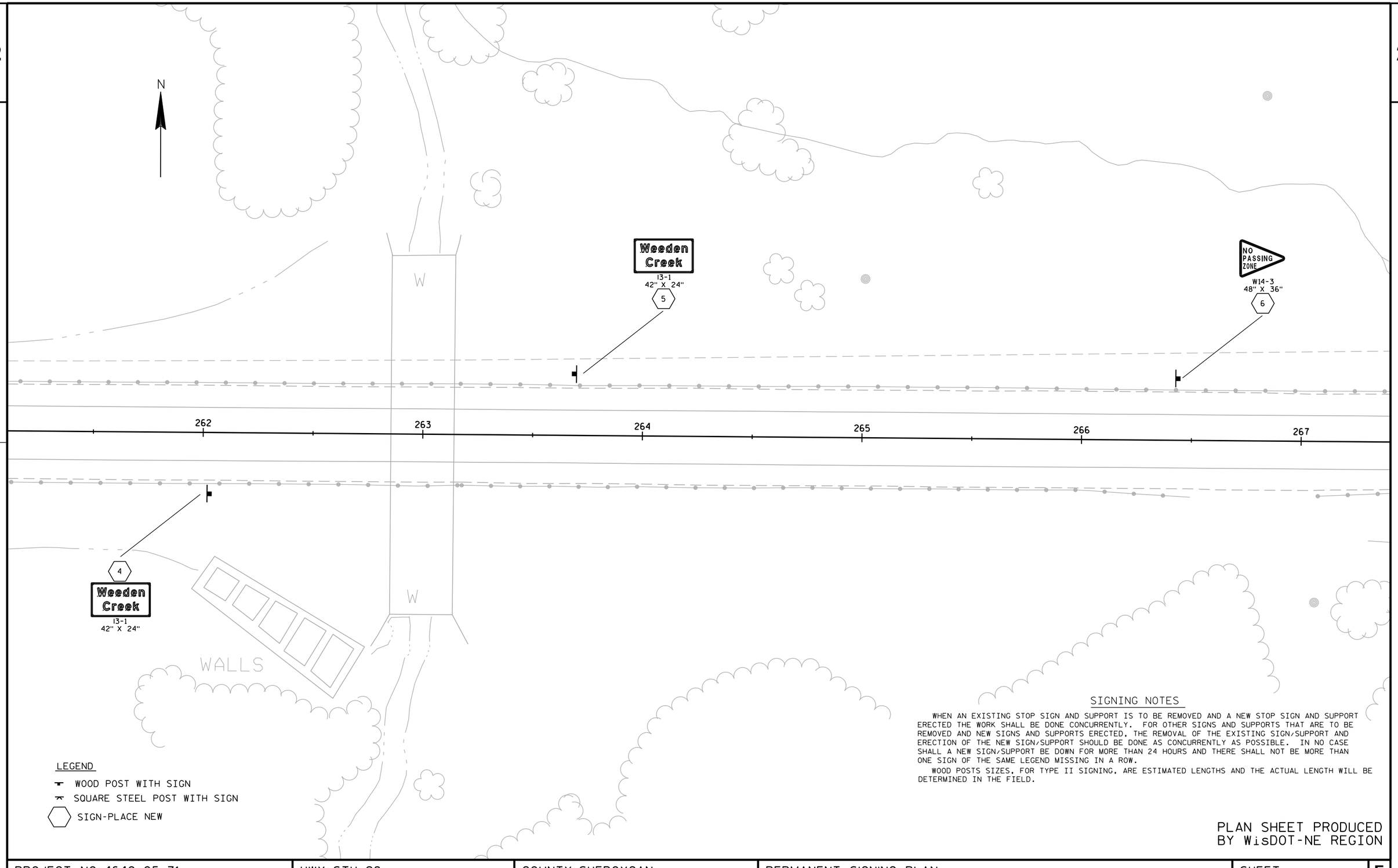
WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

NEW STOP SIGNS (R1-1) PLACED UNDER THE PROJECT SHALL HAVE A MINIMUM OF 6'6" OF CLEARANCE ABOVE THE ROADWAY. THIS WILL ALLOW FOR THE PLACEMENT OF FUTURE SIGNS BENEATH THE STOP SIGN.

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 70 E

2



LEGEND

- WOOD POST WITH SIGN
- SQUARE STEEL POST WITH SIGN
- SIGN-PLACE NEW

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 71	E

2

N

W6-3
36" X 36"
9

268 269 270 271 272 273

STH 28

7

W3-5
36" X 36"

8

W6-1
36" X 36"

LEGEND

- WOOD POST WITH SIGN
- SQUARE STEEL POST WITH SIGN
- SIGN-PLACE NEW

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 72	E

2

N

SPEED LIMIT 55
R2-1
24" X 30"
11

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

WRONG WAY
R5-1A
42" X 30"
14

W6-2
36" X 36"
15

275WB 276WB 277WB 278WB 279WB

274 275 276 277 278 279

STH 28

10
SPEED LIMIT 35
R2-1
24" X 30"

12
R4-7
36" X 48"

INL

LEGEND

- WOOD POST WITH SIGN
- SQUARE STEEL POST WITH SIGN
- SIGN-PLACE NEW

SIGNING NOTES

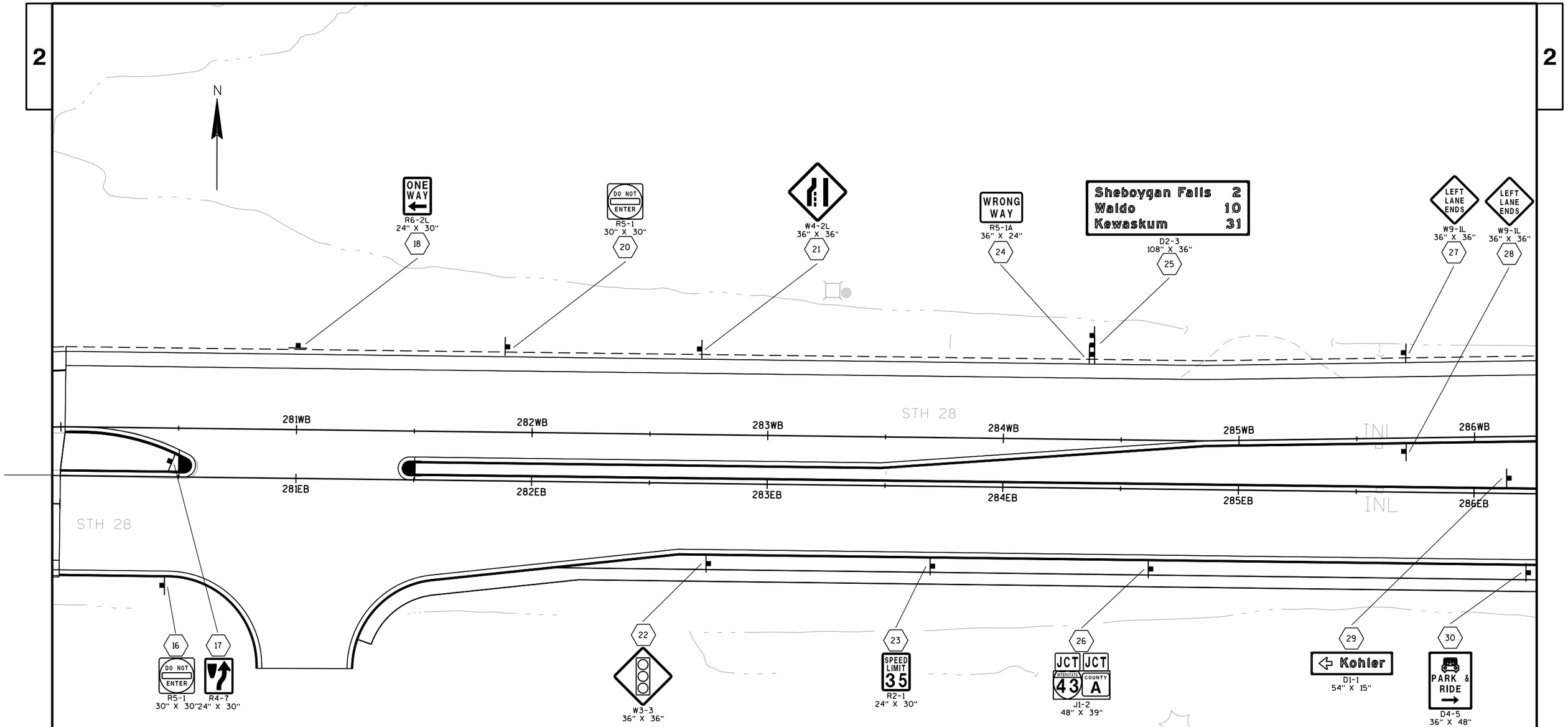
WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 73	E

2



LEGEND

- WOOD POST WITH SIGN
- SQUARE STEEL POST WITH SIGN
- SIGN-PLACE NEW

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 74	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

N

STH 28

287WB 288WB 289WB 290WB 291WB 292WB

287EB 288EB 289EB 290EB 291EB 292EB

248A 247A 246A 245A

CTH A

INL

TO BE PLACED ON MONOTUBE SIGNAL ARM

42 R10-50 30" X 36" (LEFT TURN YIELD ON FLASHING YELLOW ARROW)

43 R6-2L 24" X 30" (ONE WAY)

44 R6-2R 24" X 30" (ONE WAY)

45 R1-1F 30" X 30" (STOP)

31 R2-1 24" X 30" (SPEED LIMIT 35)

35 J4-1 24" X 36" (WEST 28)

TO BE PLACED ON MONOTUBE SIGNAL ARM

36 R10-50 30" X 36" (LEFT TURN YIELD ON FLASHING YELLOW ARROW)

37 R1-1F 36" X 36" (STOP)

38 R4-7 24" X 30"

TO BE PLACED ON MONOTUBE SIGNAL ARM

49 R4-7 24" X 30"

50 R5-1 30" X 30" (DO NOT ENTER)

51 J13-1 24" X 45" (COUNTY A)

52 R1-1F 36" X 36" (STOP)

53 R10-50 30" X 36" (LEFT TURN YIELD ON FLASHING YELLOW ARROW)

54 D4-5 36" X 48" (PARK & RIDE)

56 D1-1 54" X 15" (Kohler)

32 R3-8V 72" X 30" (ONLY ONLY ONLY ONLY)

33 R3-8V 72" X 30" (ONLY ONLY ONLY ONLY)

34 R5-1A 36" X 24" (WRONG WAY)

39 J13-1 24" X 45" (COUNTY A)

40 R5-1 30" X 30" (DO NOT ENTER)

41 R10-50 30" X 36" (LEFT TURN YIELD ON FLASHING YELLOW ARROW) TO BE PLACED ON MONOTUBE SIGNAL ARM

55 D1-72 120" X 60" (NORTH 43 SOUTH; KEEP LEFT; KEEP RIGHT)

46 R1-1F 30" X 30" (STOP)

47 R6-2R 24" X 30" (ONE WAY)

48 R6-2L 24" X 30" (ONE WAY)

LEGEND

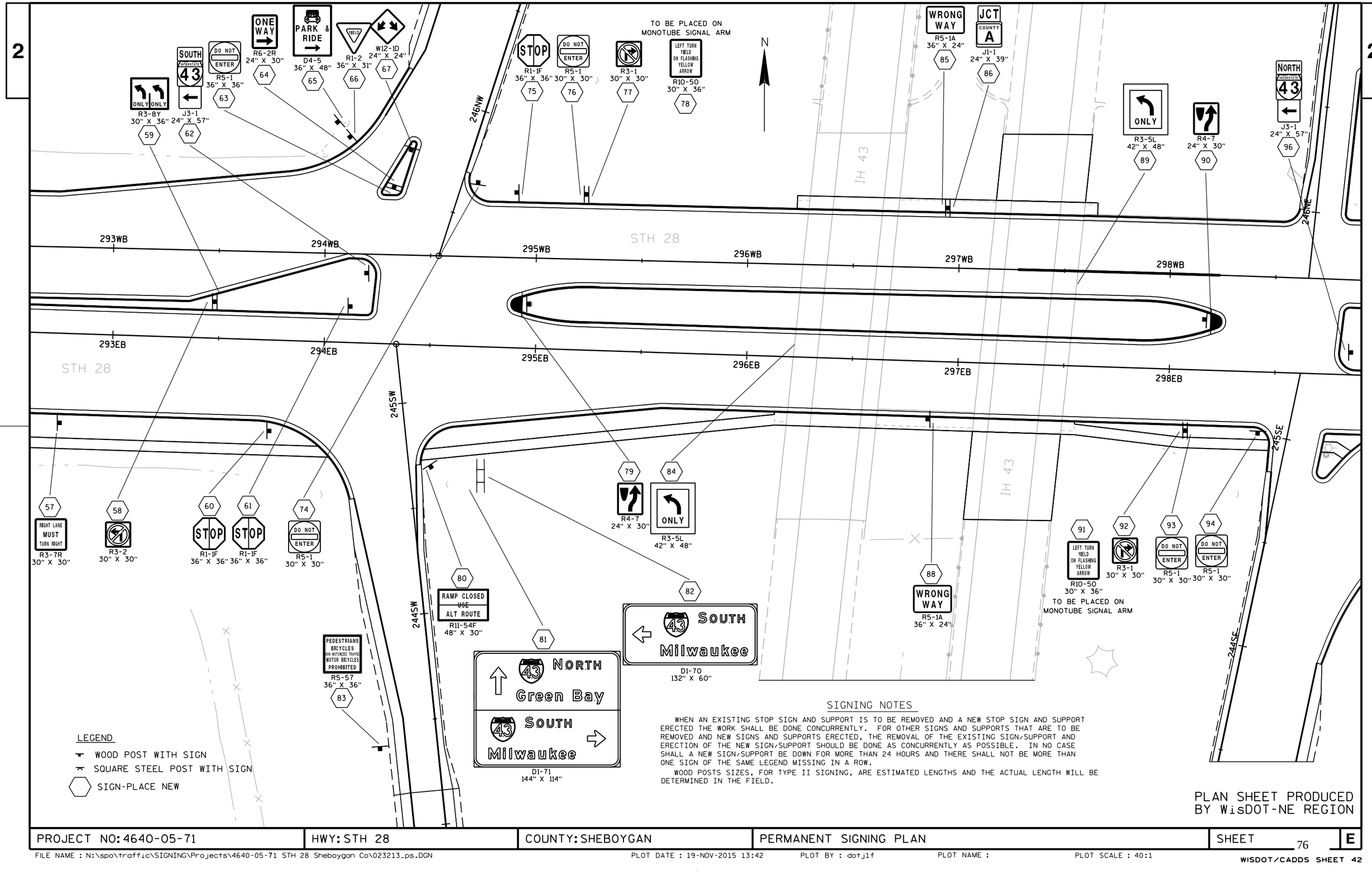
- WOOD POST WITH SIGN
- SQUARE STEEL POST WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 75 E

FILE NAME : N:\spo\traffic\SIGNING\Projects\4640-05-71 STH 28 Sheboygan Co\023212_ps.DGN PLOT DATE : 19-NOV-2015 13:42 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 76 E

2

N

TO 28 COUNTY A
J3-2
48" X 57"
69

Sheboygan
Kohler
Sheboygan Falls
D1-3
102" X 36"
71

ONLY ONLY
R3-8P
54" X 30"
72

ONLY ONLY
R3-8P
54" X 30"
73

WRONG WAY
R5-1A
36" X 24"
68

I-43 SB OFF RAMP TO STH 28

247NW 248NW 249NW 250NW 251NW 252NW

70
WRONG WAY
R5-1A
36" X 24"

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

LEGEND

- WOOD POST WITH SIGN
- SQUARE STEEL POST WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 77	E

2

N



D15-1
48" X 90"

105



SP
54" X 30"

104



J3-2
48" X 57"

102



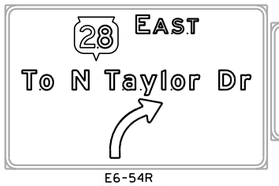
R5-1A
36" X 24"

100

238SE 239SE 240SE 241SE 242SE 243SE 244SE

I-43 NB OFF RAMP TO STH 28

106



E6-54R
144" X 90"

107



E6-54R
144" X 66"

108



SP
54" X 30"

EXISTING
SIGN BRIDGE
TO REMAIN
STA 241+35'SE'
S-59-19

103

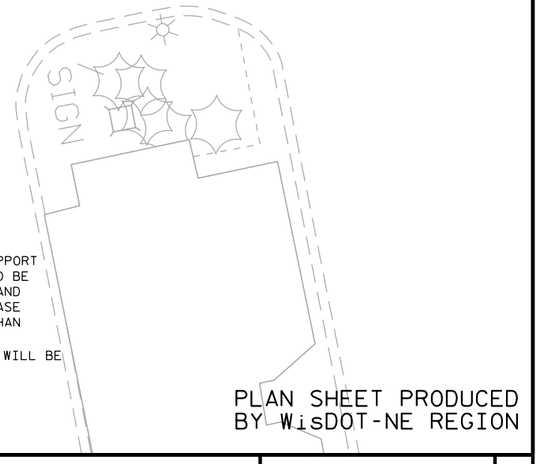


D1-3
102" X 36"

101



R5-1A
36" X 24"



LEGEND

- WOOD POST WITH SIGN
- SQUARE STEEL POST WITH SIGN
- SIGN-PLACE NEW
- SIGN-REMOVE AND REPLACE

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 78	E

SIGNING NOTES

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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N

STH 28 ON RAMP TO I-43 NB

TAYLOR DR

MH

STH 28

112 PEDESTRIANS BICYCLES (ON MOTORIZED TRAFFIC) MOTOR BICYCLES PROHIBITED R5-57 36" X 36"

111 STOP R1-1F 36" X 36"

247NE

D1-70 132" X 60" 113

D1-71 144" X 114" 114

95 DO NOT ENTER R5-1 30" X 30"

246NE

115 R3-2 30" X 30"

116 W12-1D 24" X 24"

117 UW Sheboygan D1-1 96" X 15"

123 RAMP CLOSED USE ALT ROUTE R11-54F 48" X 30"

125 RIGHT LANE MUST TURN RIGHT R3-7R 30" X 30"

TO BE PLACED ON MONOTUBE SIGNAL ARM

126 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50 30" X 36"

127 JCT INTERSTATE 43 J1-1 24" X 39"

132 R4-7 24" X 30"

133 DO NOT ENTER R5-1 30" X 30"

134 DO NOT ENTER R5-1 30" X 30"

135 ONE WAY R6-2R 24" X 30"

136 W12-1D 24" X 24"

137

299WB 300WB 301WB 302WB 303WB 304WB

299EB 300EB 301EB 302EB 303EB 304EB

117T

97 STOP R1-1F 30" X 30"

98 W12-1D 24" X 24"

99 NO TURN ON RED FROM LEFT LANE R10-11F 30" X 36"

99A ONE WAY R6-2R 24" X 30"

109 STOP R1-1F 36" X 36"

110 NO TURN ON RED FROM LEFT LANE R10-11F 30" X 36"

110A ONE WAY R6-2R 24" X 30"

118 Taylor Drive ONLY D15-1 48" X 78"

119 Taylor Drive ONLY D15-1 48" X 78"

120 EAST 28 ONLY D15-1 48" X 90"

121 EAST 28 ONLY D15-1 48" X 90"

122 Taylor Drive ONLY D15-1 48" X 78"

245SE

NEW PROPOSED SIGN BRIDGE
STA 300+59'EB'
S-59-20

124 RIGHT LANE MUST TURN RIGHT R3-7R 30" X 30"

128 STOP R1-1F 36" X 36"

129 W12-1D 24" X 24"

130 YIELD R1-2 36" X 31"

131 LEFT TURN YIELD ON FLASHING YELLOW ARROW R10-50 30" X 36"
TO BE PLACED ON MONOTUBE SIGNAL ARM

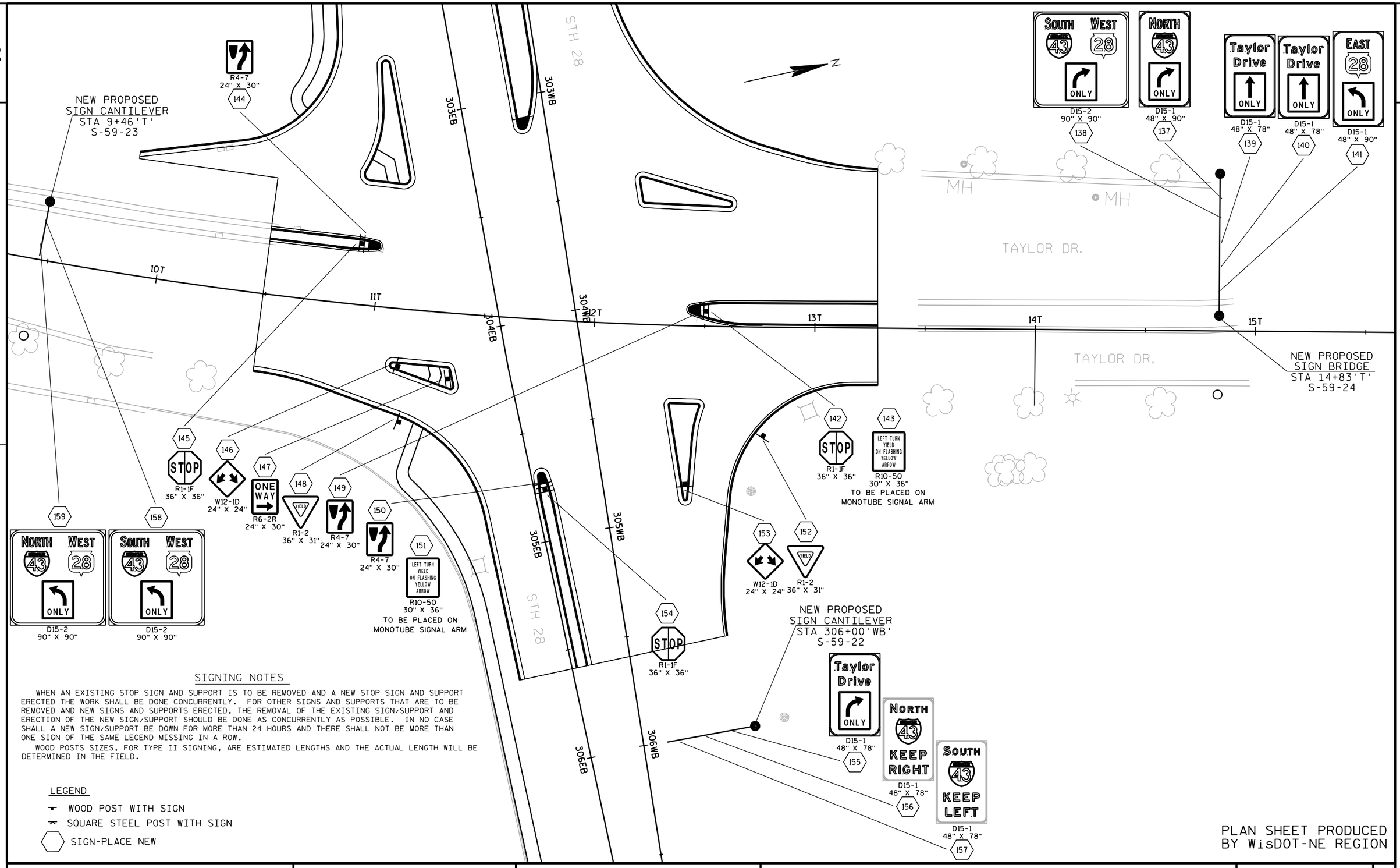
LEGEND

- WOOD POST WITH SIGN
- SQUARE STEEL POST WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 79 E

2



SIGNING NOTES

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LEGEND

- WOOD POST WITH SIGN
- SQUARE STEEL POST WITH SIGN
- SIGN-PLACE NEW

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING PLAN	SHEET 80	E

2

2

N

GOLF COURSE

MH

GOLF COURSE

GOLF COURSE

GOLF GREEN

W

STH 28

PRANGE RD.

100

STOP

R1-1

101

STOP

R1-1

RUINS

RUINS

SIGNING NOTES

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND SUPPORTS.

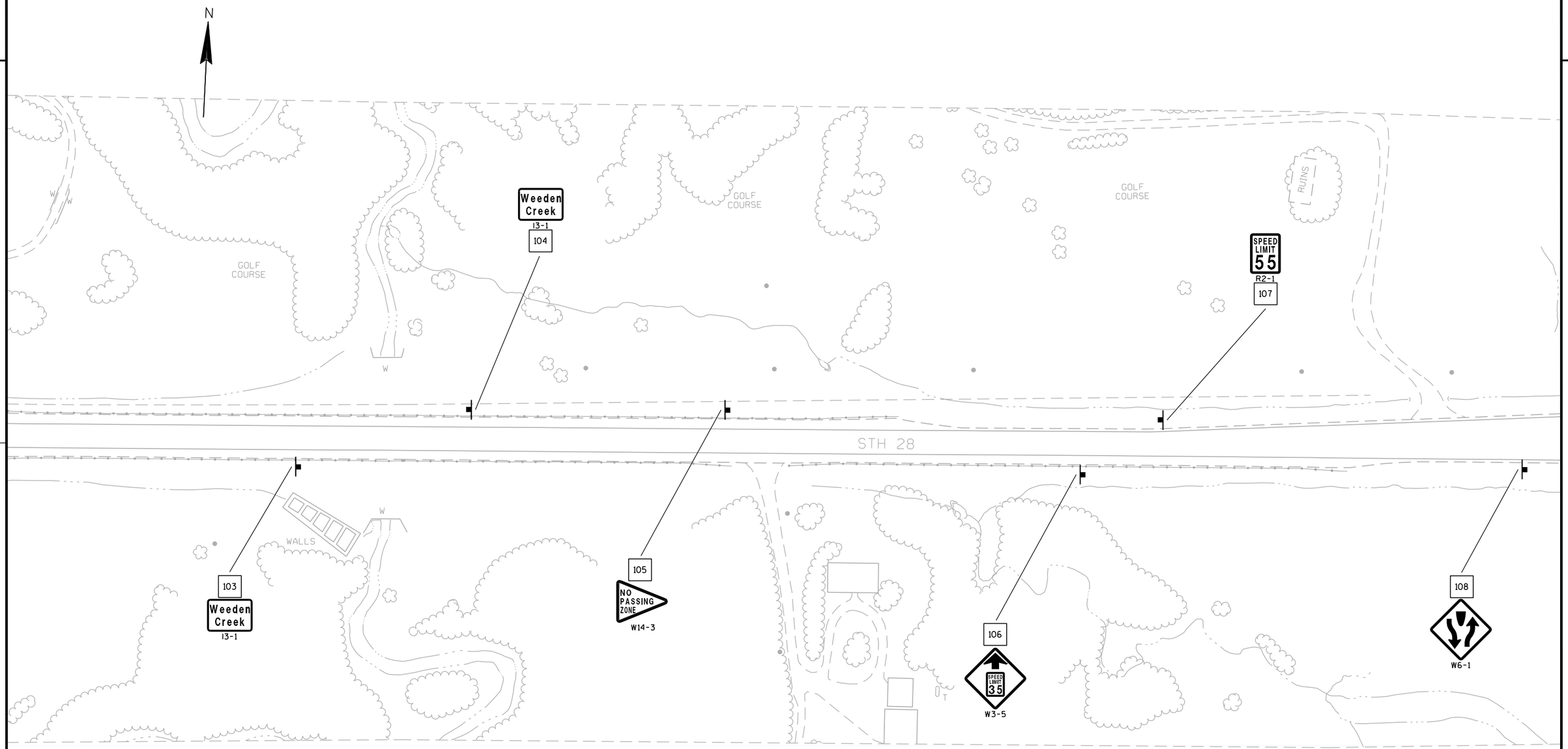
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☐ SIGN-REMOVE EXISTING

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	SIGN REMOVALS	SHEET 81	E

2



SIGNING NOTES

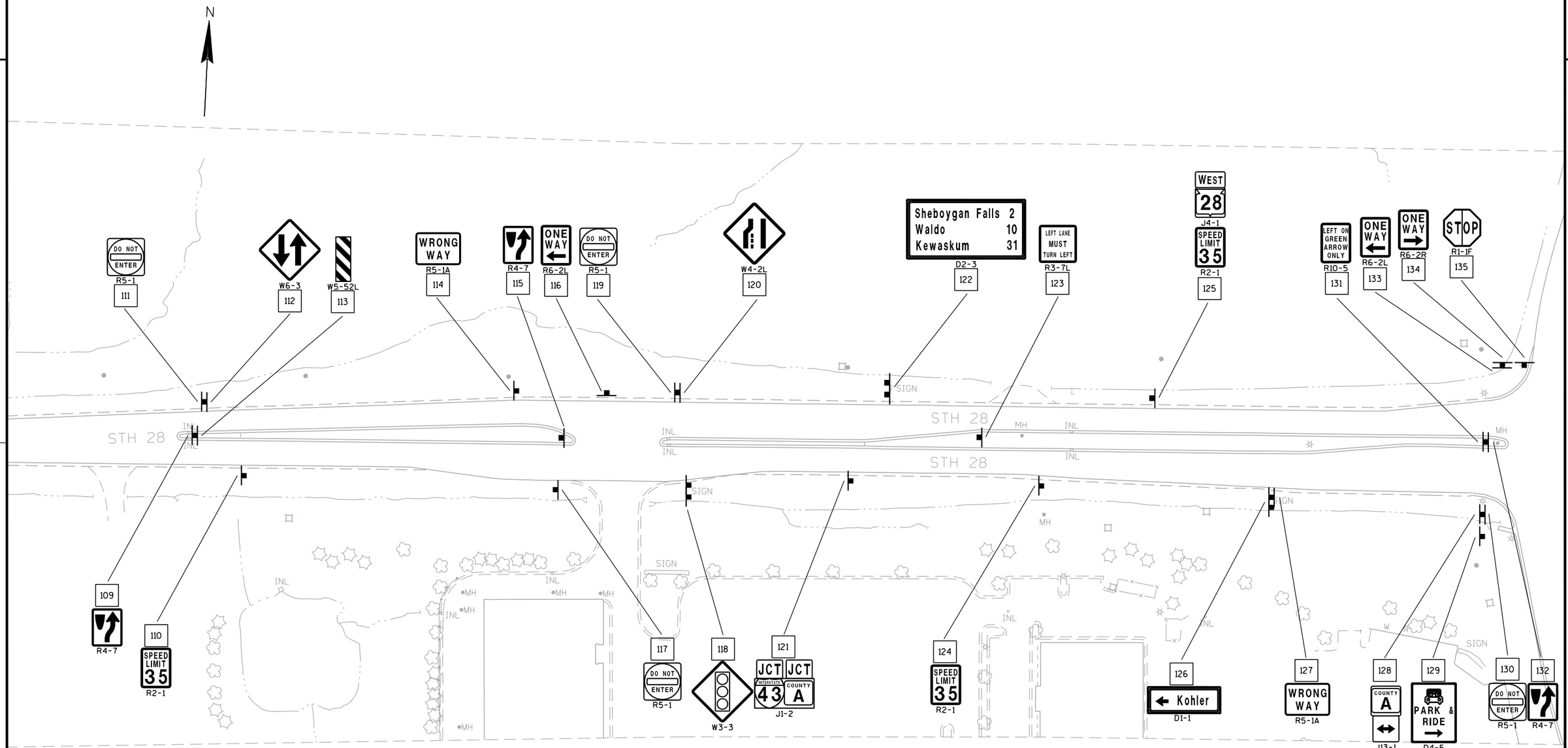
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☐ SIGN-REMOVE EXISTING

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	SIGN REMOVALS	SHEET 82	E



SIGNING NOTES

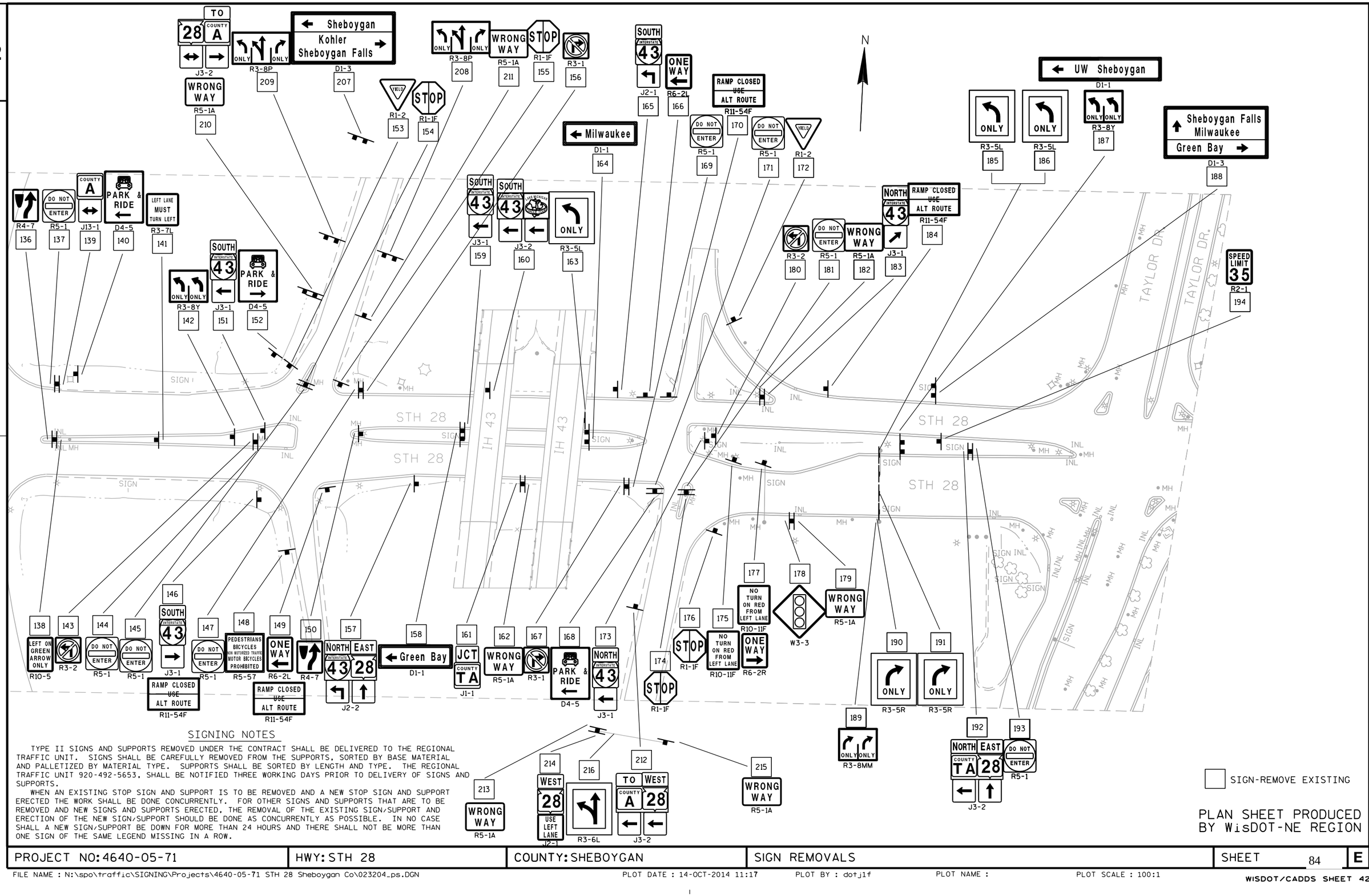
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☐ SIGN-REMOVE EXISTING

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	SIGN REMOVALS	SHEET 83	E



SIGNING NOTES

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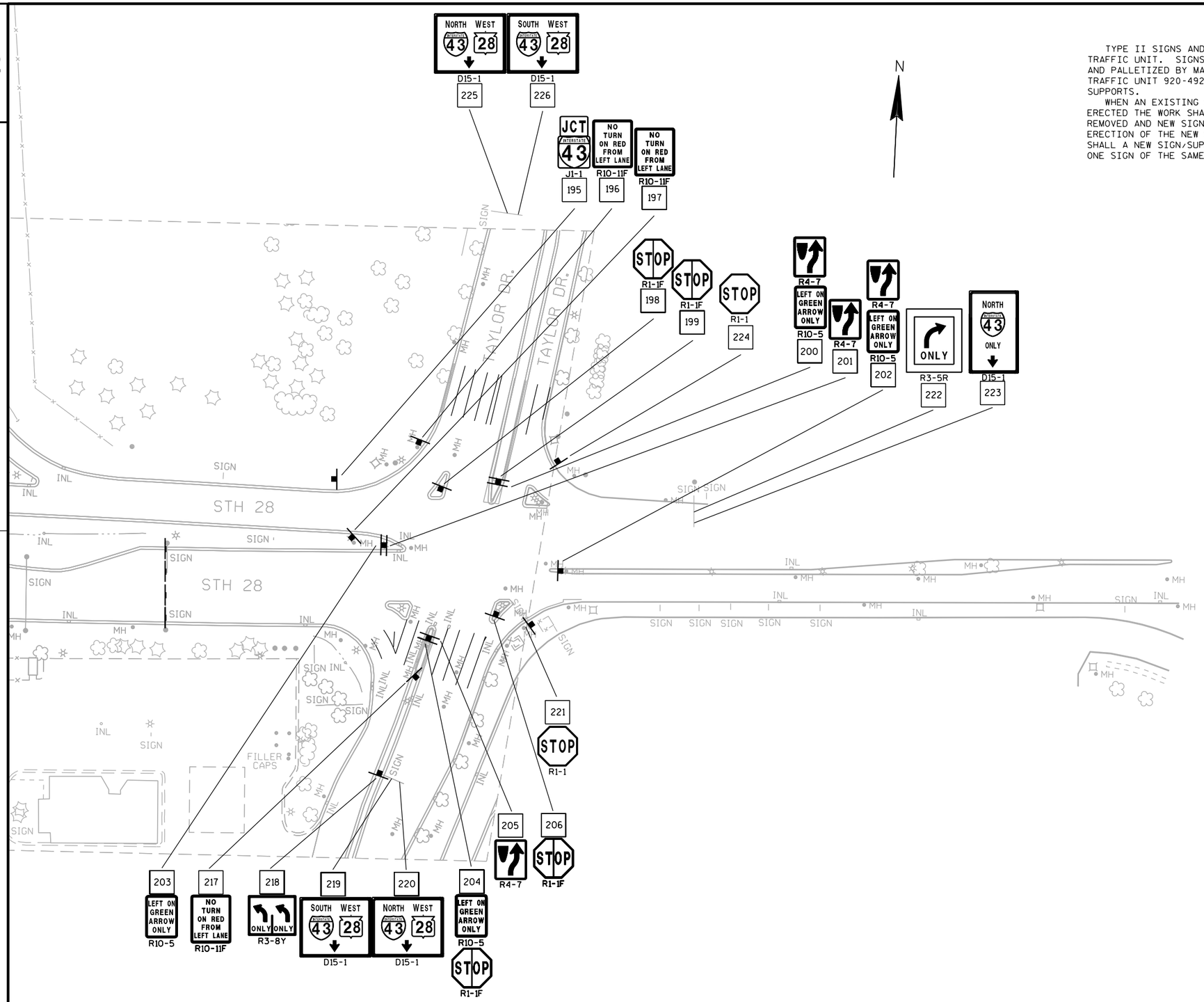
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	SIGN REMOVALS	SHEET 84	E

SIGNING NOTES

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SIGN-REMOVE EXISTING

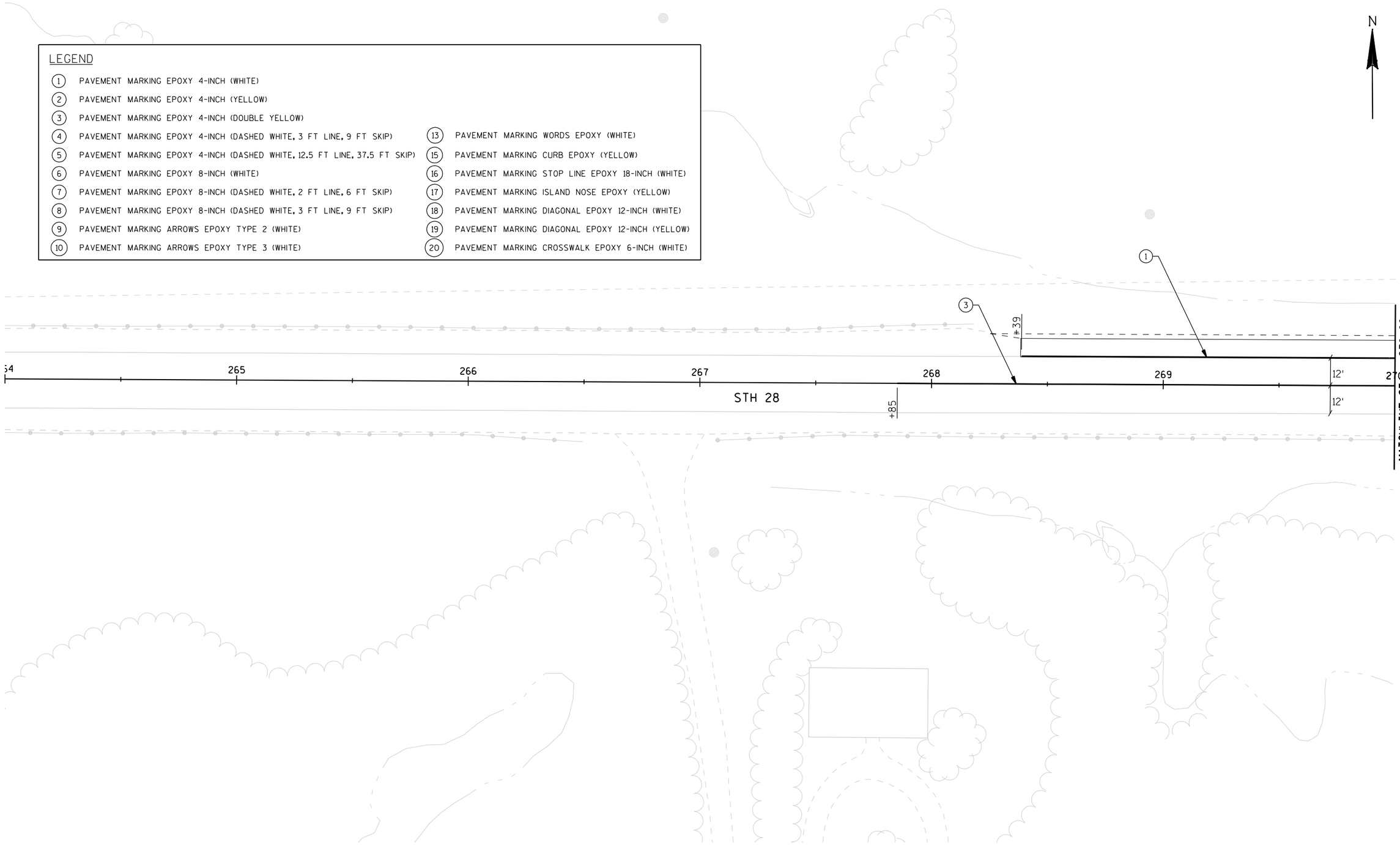
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	SIGN REMOVALS	SHEET 85	E

2

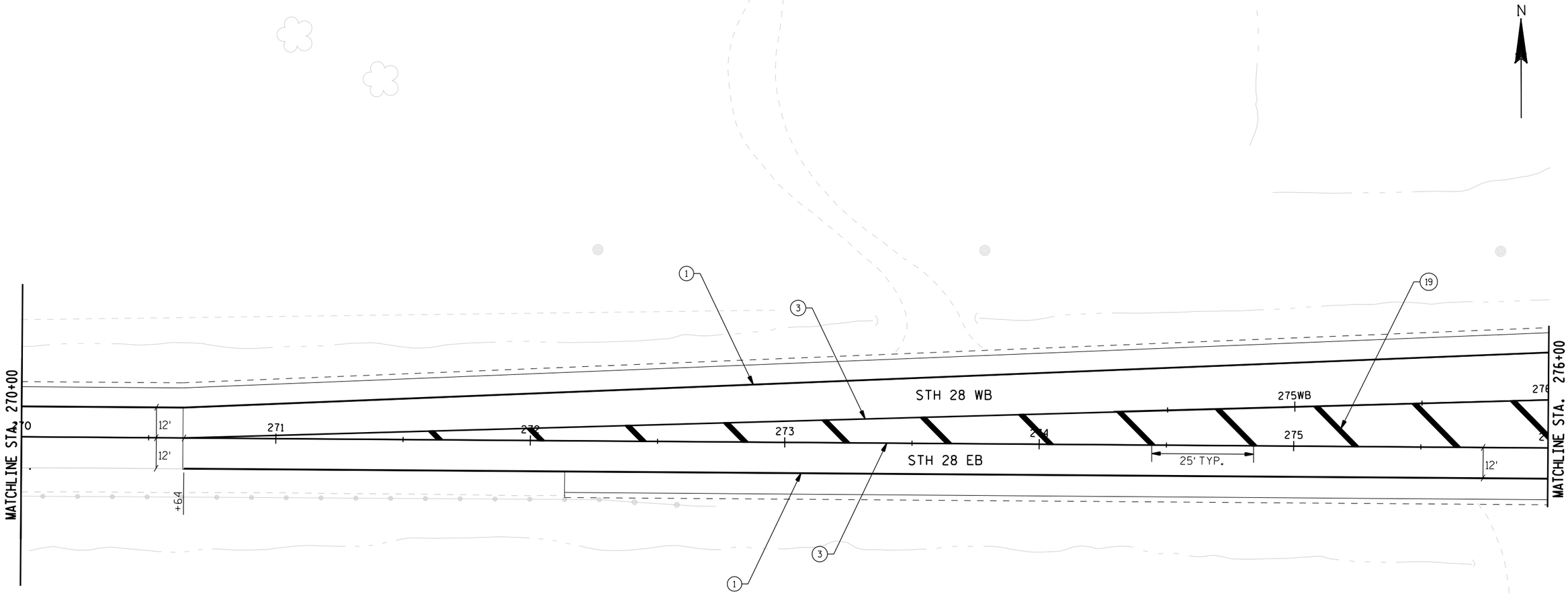
LEGEND

(1)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(13)	PAVEMENT MARKING WORDS EPOXY (WHITE)
(2)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(15)	PAVEMENT MARKING CURB EPOXY (YELLOW)
(3)	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	(16)	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
(4)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	(17)	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
(5)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)	(18)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
(6)	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	(19)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
(7)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)	(20)	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
(8)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
(9)	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
(10)	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: STH 28 MAINLINE	SHEET 86	E

2

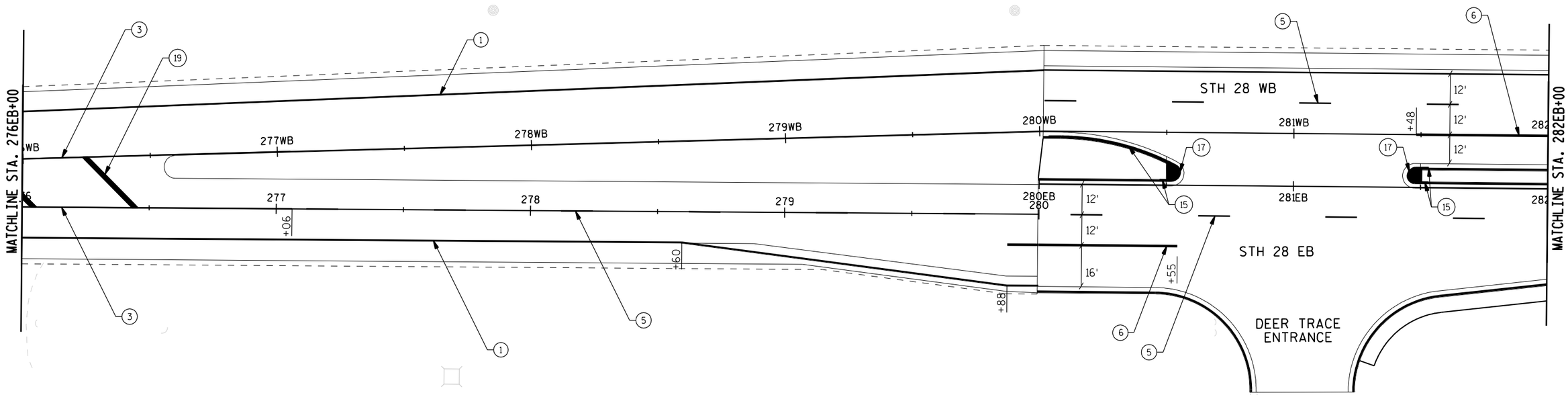


LEGEND

(1)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(13)	PAVEMENT MARKING WORDS EPOXY (WHITE)
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(8)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
(9)	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
(10)	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: STH 28 MAINLINE	SHEET 87	E

2



LEGEND

(1)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(13)	PAVEMENT MARKING WORDS EPOXY (WHITE)
(2)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(15)	PAVEMENT MARKING CURB EPOXY (YELLOW)
(3)	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	(16)	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
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PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: STH 28 MAINLINE	SHEET 88	E

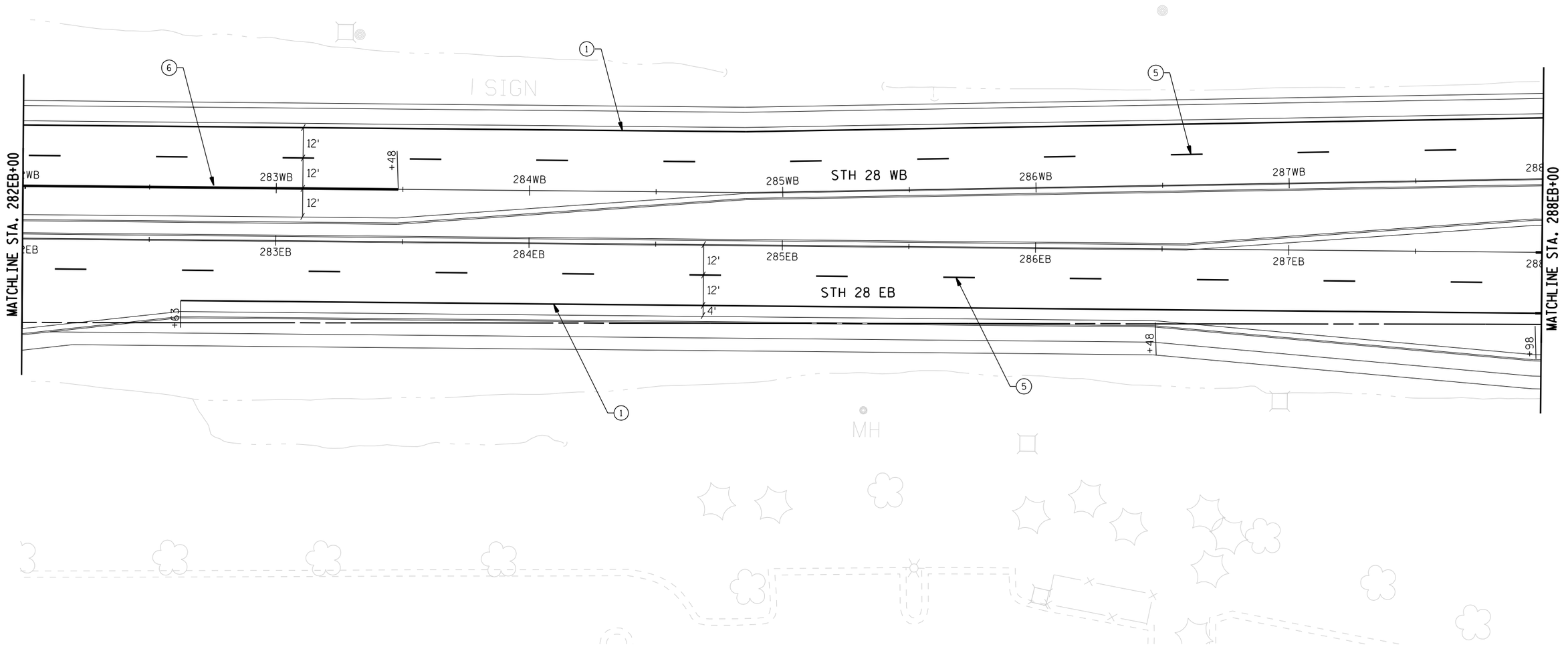
2

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
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9. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
10. PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
13. PAVEMENT MARKING WORDS EPOXY (WHITE)
15. PAVEMENT MARKING CURB EPOXY (YELLOW)
16. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
17. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
18. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
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20. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)

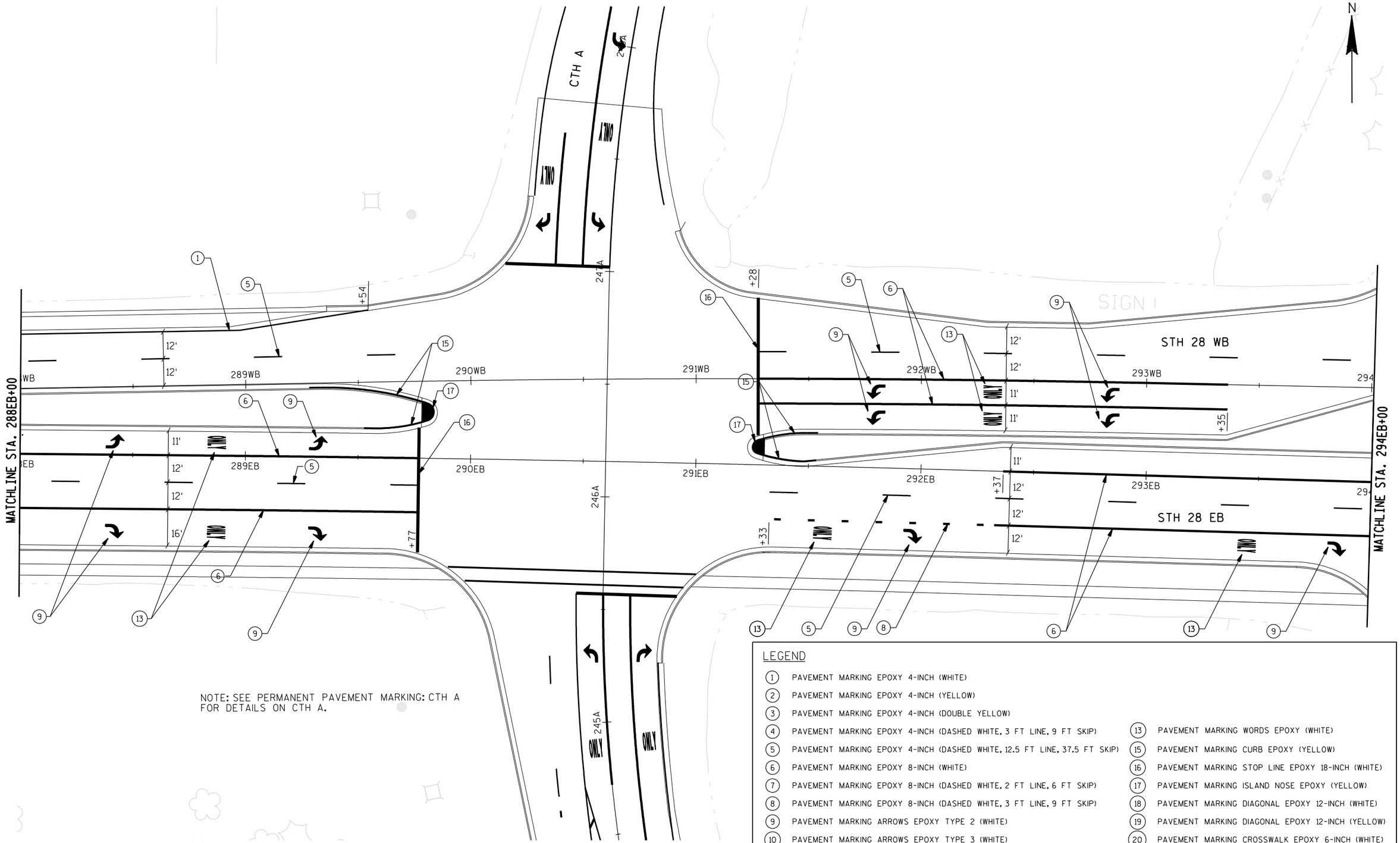
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PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: STH 28 MAINLINE	SHEET 89	E

2



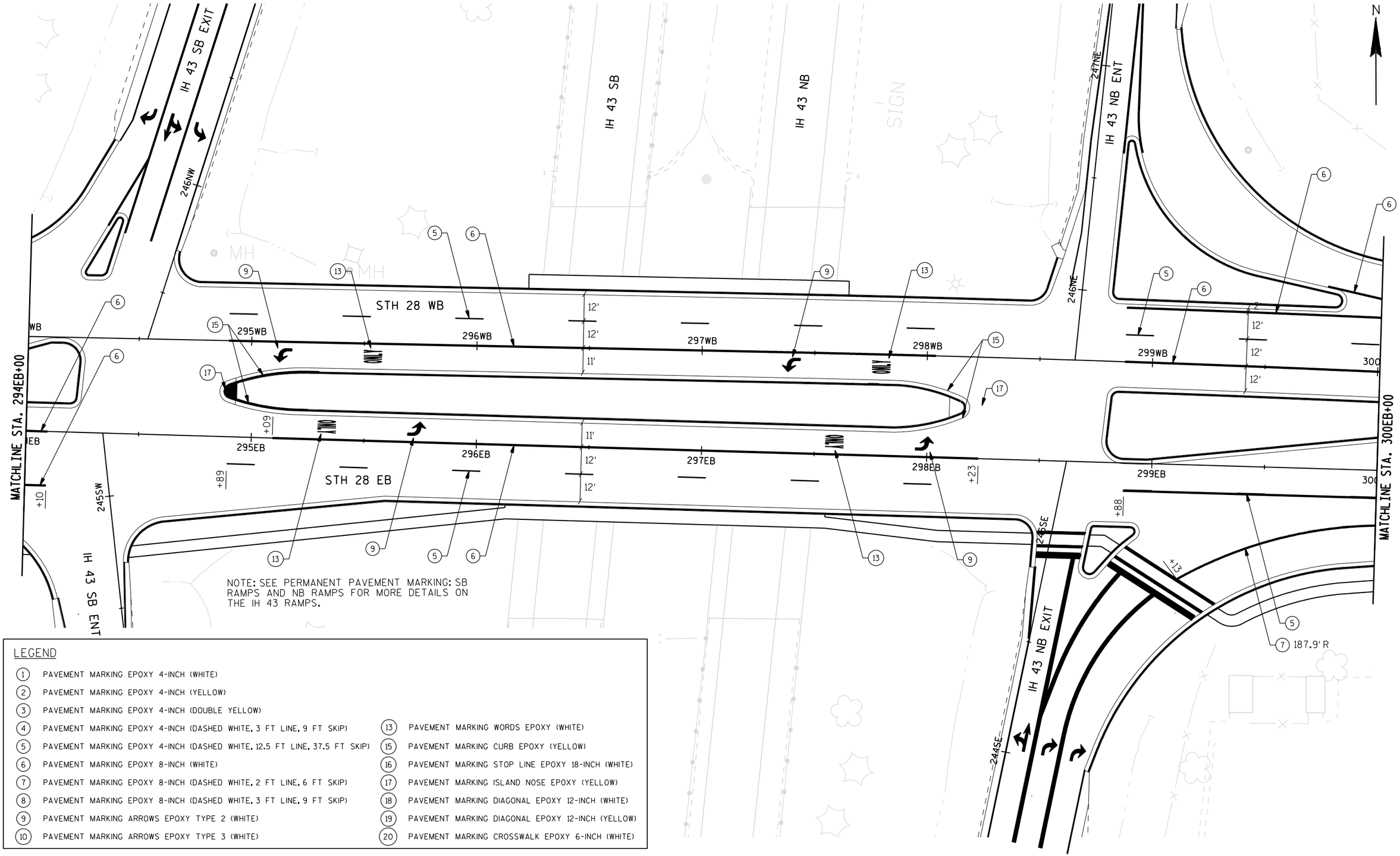
NOTE: SEE PERMANENT PAVEMENT MARKING: CTH A FOR DETAILS ON CTH A.

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	13	PAVEMENT MARKING WORDS EPOXY (WHITE)
2	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	15	PAVEMENT MARKING CURB EPOXY (YELLOW)
3	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	16	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
4	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	17	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
5	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)	18	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	19	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
7	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)	20	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
8	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
9	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
10	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: STH 28 MAINLINE	SHEET 90	E

2

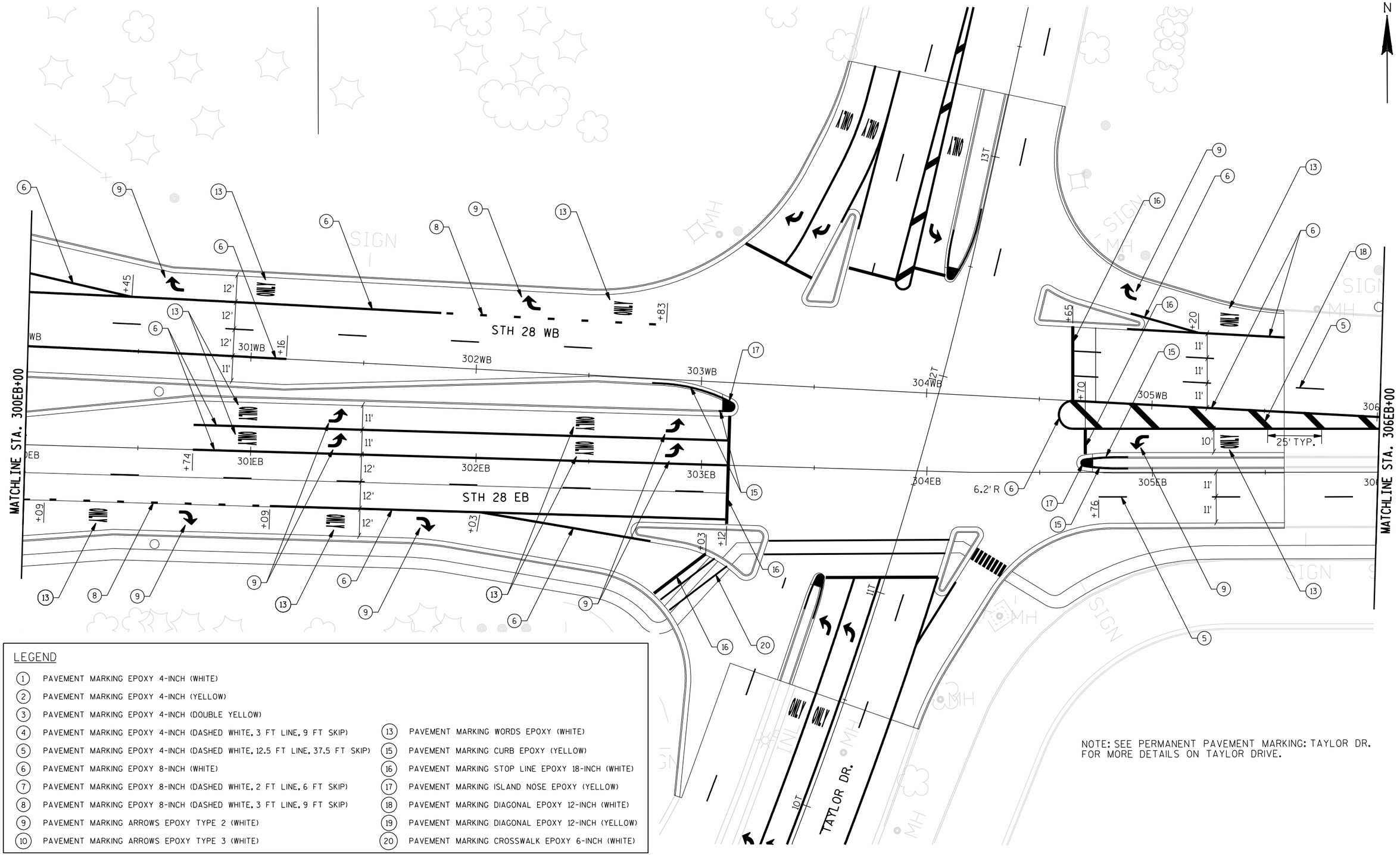


LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)
5. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
7. PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)
8. PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)
9. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
10. PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
13. PAVEMENT MARKING WORDS EPOXY (WHITE)
15. PAVEMENT MARKING CURB EPOXY (YELLOW)
16. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
17. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
18. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
19. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
20. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: STH 28 MAINLINE	SHEET 91	E

2



LEGEND

(1)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(13)	PAVEMENT MARKING WORDS EPOXY (WHITE)
(2)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(15)	PAVEMENT MARKING CURB EPOXY (YELLOW)
(3)	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	(16)	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
(4)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	(17)	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
(5)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)	(18)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
(6)	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	(19)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
(7)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)	(20)	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
(8)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
(9)	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
(10)	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		

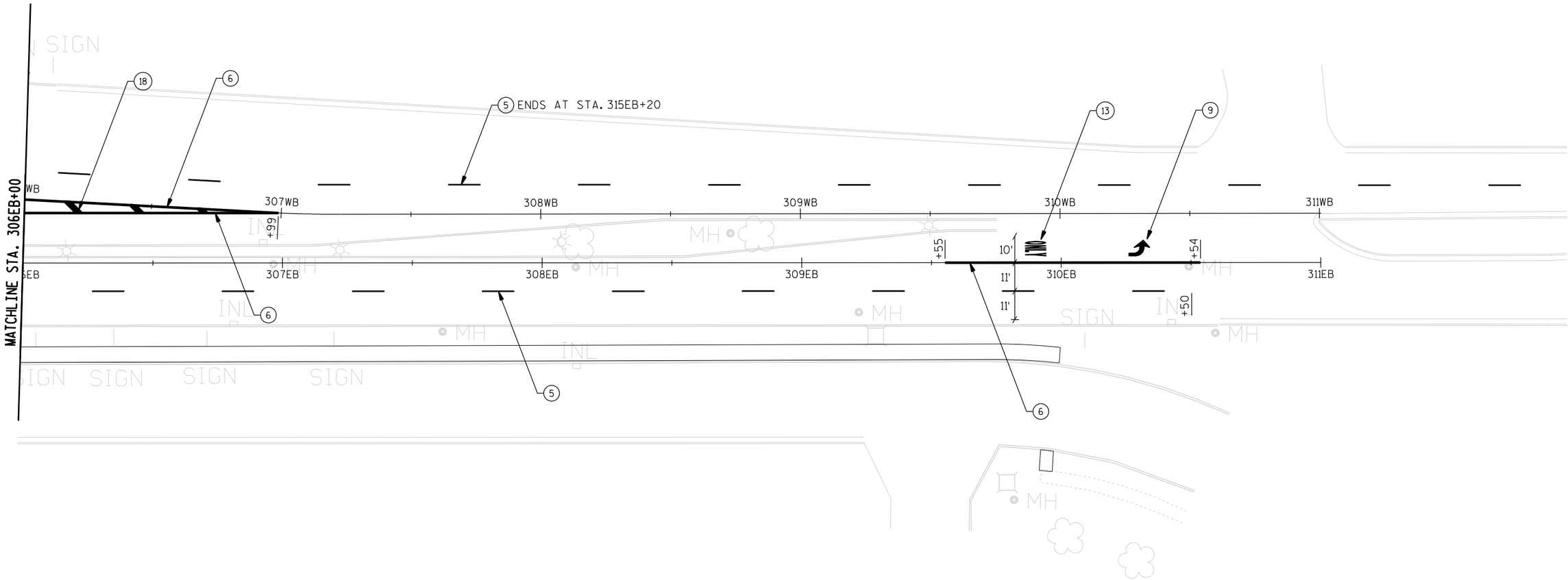
NOTE: SEE PERMANENT PAVEMENT MARKING: TAYLOR DR. FOR MORE DETAILS ON TAYLOR DRIVE.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: STH 28 MAINLINE	SHEET 92	E

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)
5. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
7. PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)
8. PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)
9. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
10. PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
13. PAVEMENT MARKING WORDS EPOXY (WHITE)
15. PAVEMENT MARKING CURB EPOXY (YELLOW)
16. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
17. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
18. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
19. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
20. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)

N

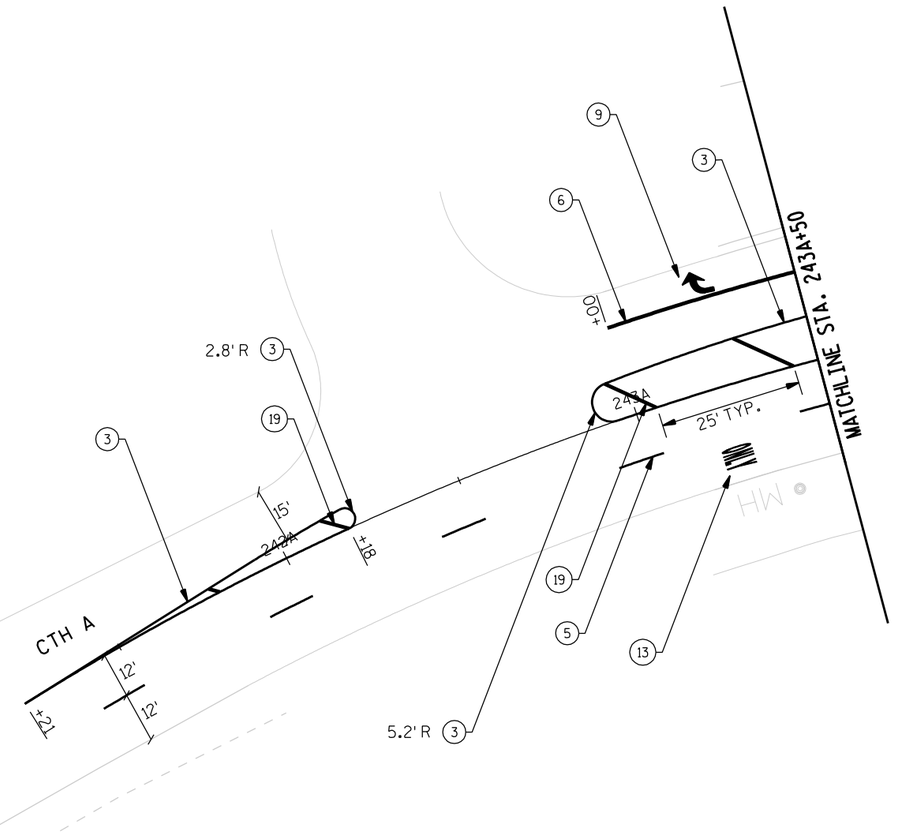


PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: STH 28 MAINLINE	SHEET 93	E

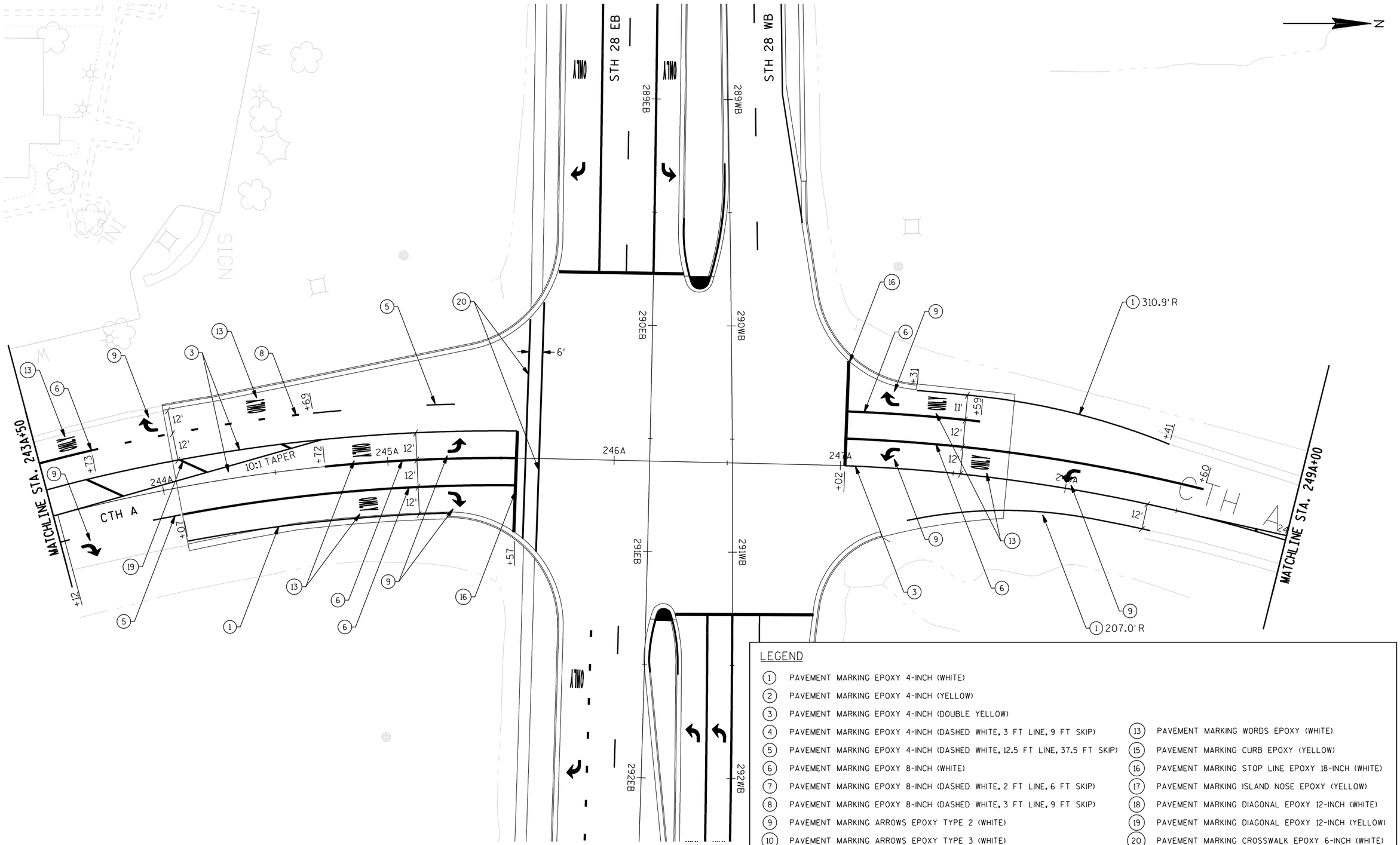
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LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)		
2	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)		
3	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)		
4	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	13	PAVEMENT MARKING WORDS EPOXY (WHITE)
5	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)	15	PAVEMENT MARKING CURB EPOXY (YELLOW)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	16	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
7	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)	17	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
8	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	18	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
9	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)	19	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
10	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)	20	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)



2



LEGEND

(1)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(13)	PAVEMENT MARKING WORDS EPOXY (WHITE)
(2)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(15)	PAVEMENT MARKING CURB EPOXY (YELLOW)
(3)	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	(16)	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
(4)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	(17)	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
(5)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)	(18)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
(6)	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	(19)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
(7)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)	(20)	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
(8)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
(9)	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
(10)	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		

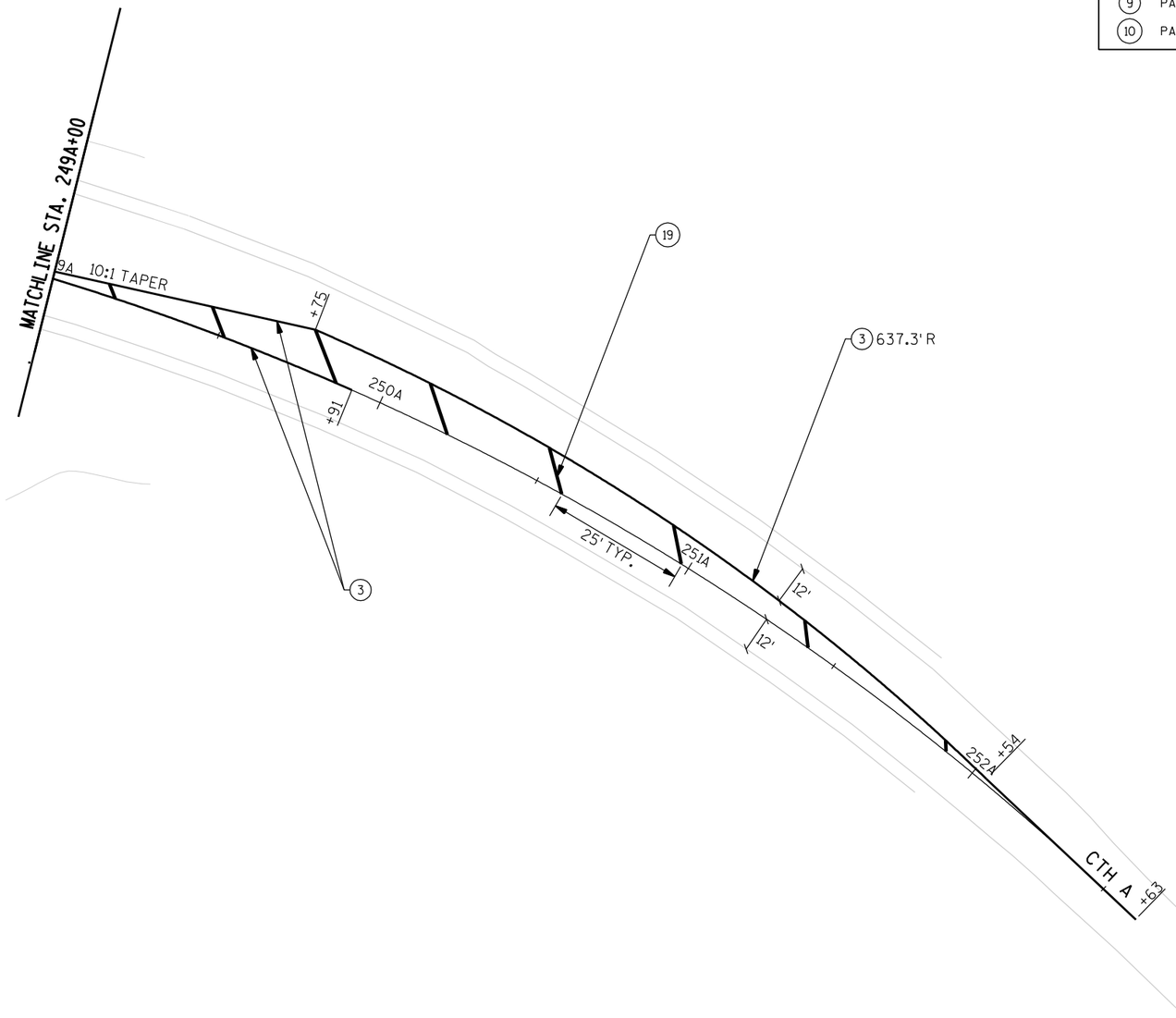
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: CTH A	SHEET 95	E

2

LEGEND

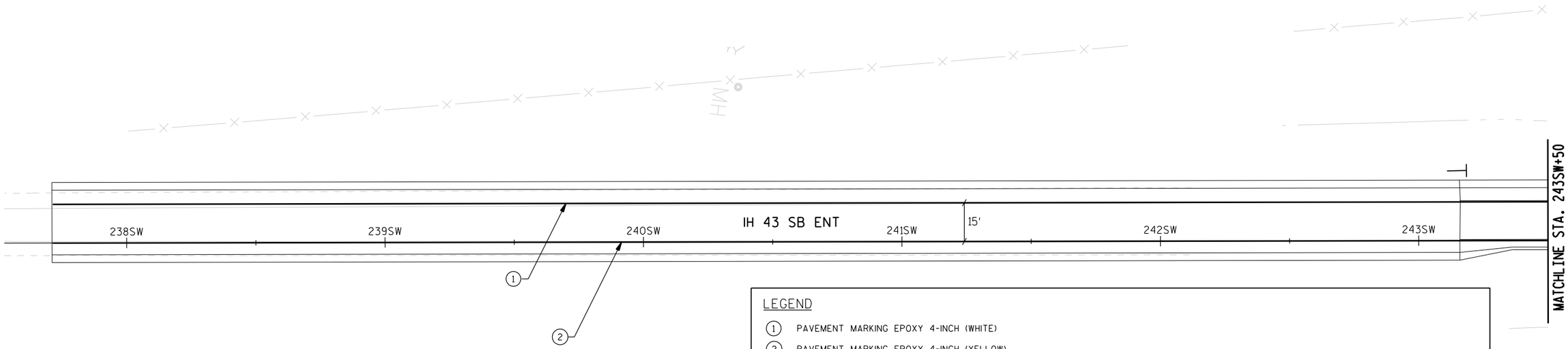
(1)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(13)	PAVEMENT MARKING WORDS EPOXY (WHITE)
(2)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(15)	PAVEMENT MARKING CURB EPOXY (YELLOW)
(3)	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	(16)	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
(4)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	(17)	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
(5)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)	(18)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
(6)	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	(19)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
(7)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)	(20)	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
(8)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
(9)	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
(10)	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		

N



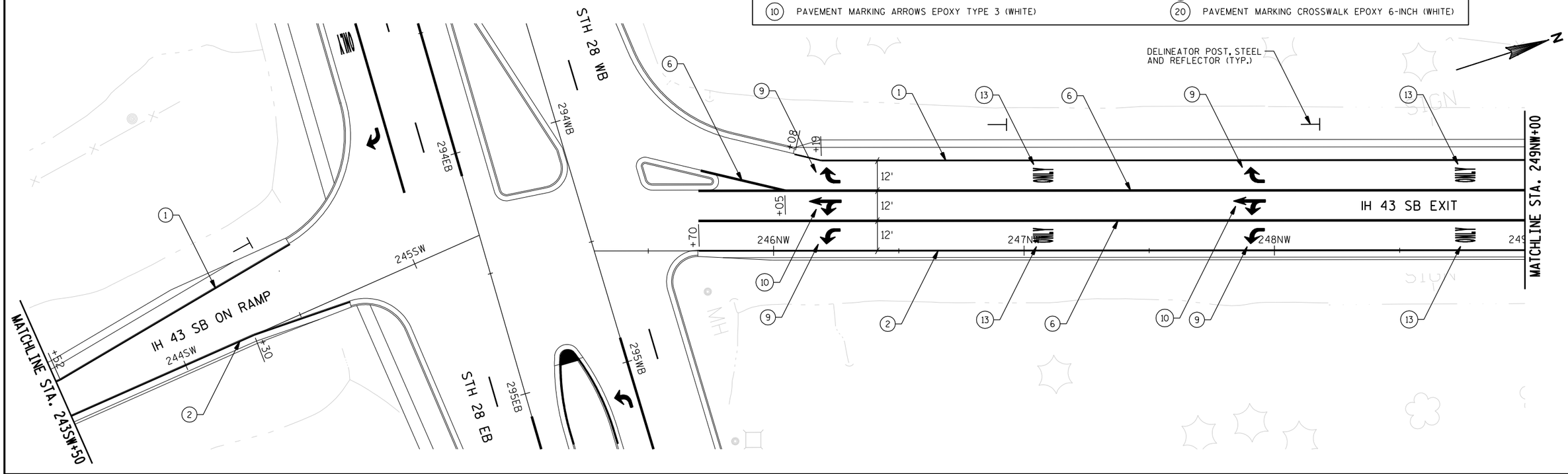
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: CTH A	SHEET 96 E

FILE NAME : L:\work\106730\Trans\STH 28\CADD\Sheets\024510_pm.dgn PLOT DATE : 11/18/2015 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 1:40

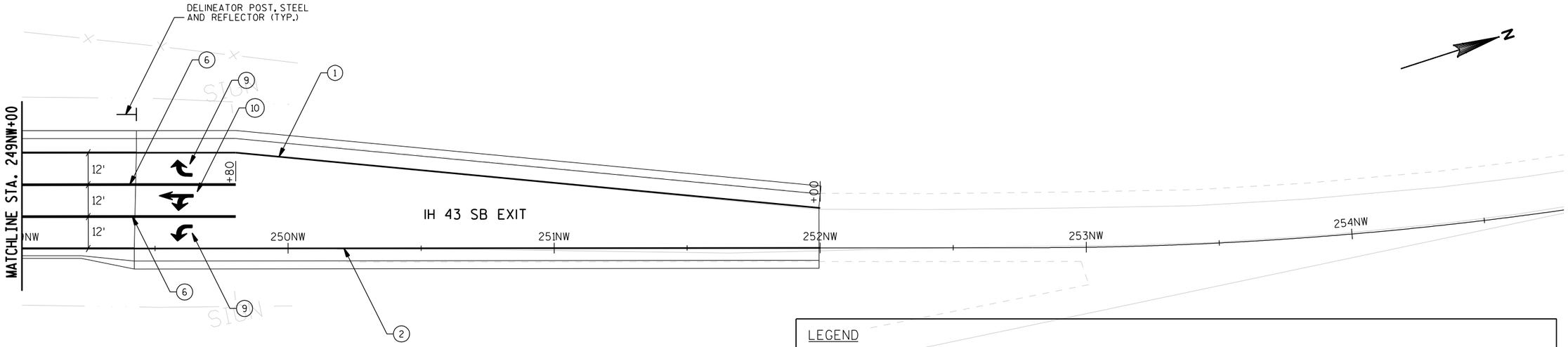


LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	13	PAVEMENT MARKING WORDS EPOXY (WHITE)
2	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	15	PAVEMENT MARKING CURB EPOXY (YELLOW)
3	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	16	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
4	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	17	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
5	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)	18	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	19	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
7	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)	20	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
8	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
9	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
10	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		



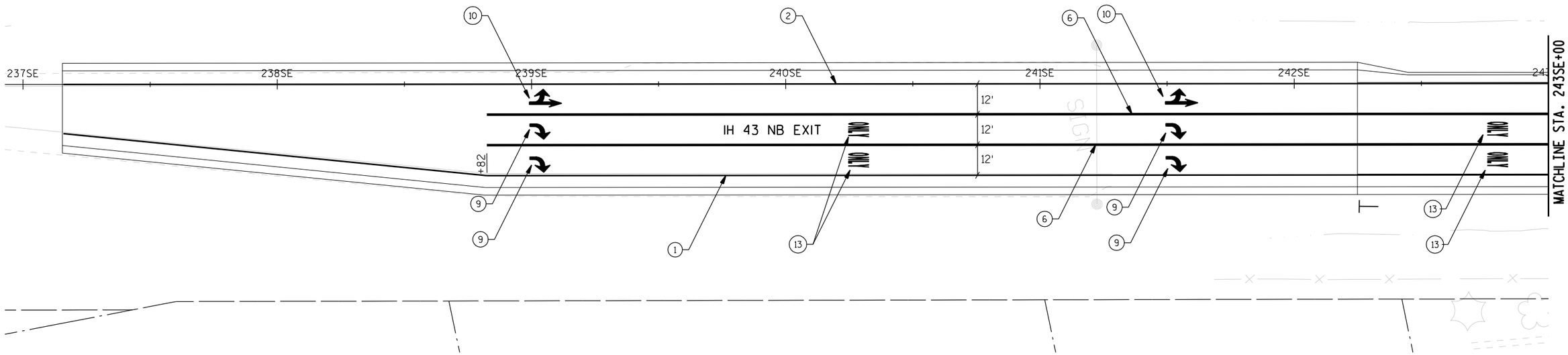
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: SB RAMPS	SHEET 97	E



2

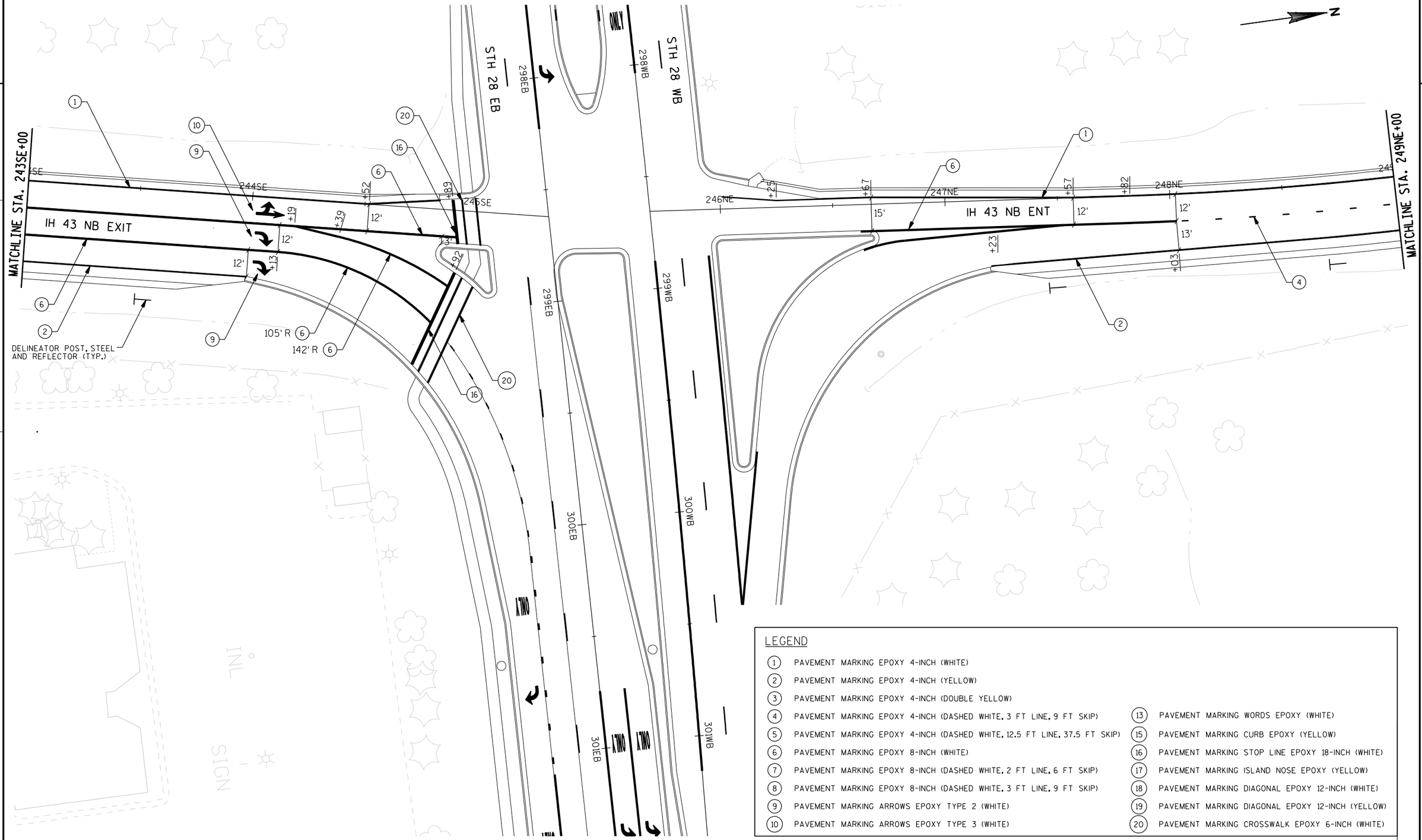
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)
5. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
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8. PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)
9. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
10. PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
13. PAVEMENT MARKING WORDS EPOXY (WHITE)
15. PAVEMENT MARKING CURB EPOXY (YELLOW)
16. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
17. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
18. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
19. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
20. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: NB RAMPS	SHEET 98	E

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WISDOT/CADDS SHEET 42

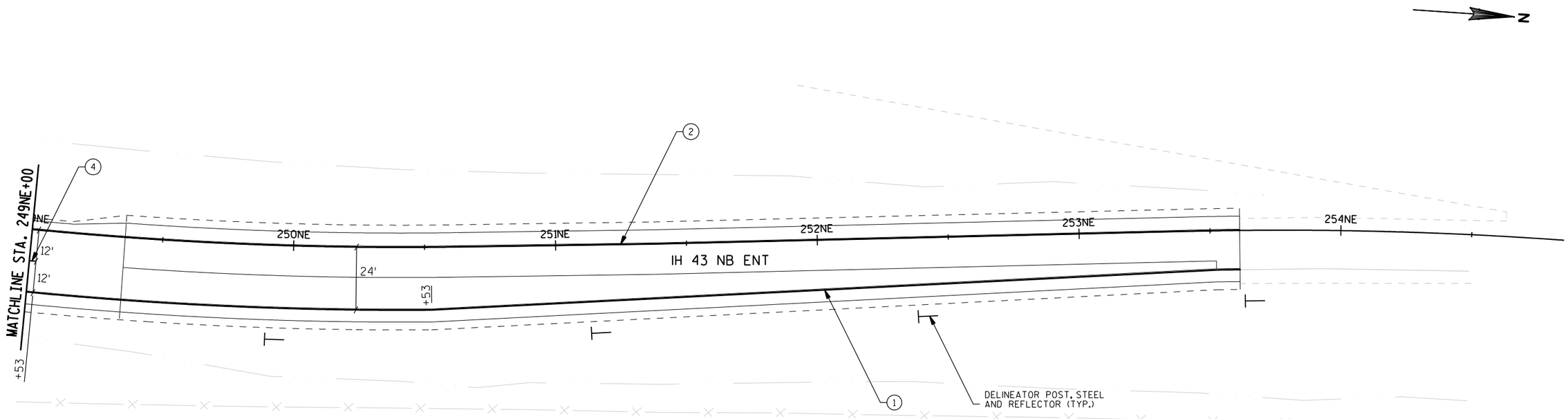


LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	13	PAVEMENT MARKING WORDS EPOXY (WHITE)
2	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	15	PAVEMENT MARKING CURB EPOXY (YELLOW)
3	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	16	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
4	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	17	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
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6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	19	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
7	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)	20	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
8	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
9	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
10	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: NB RAMPS	SHEET 99	E

2

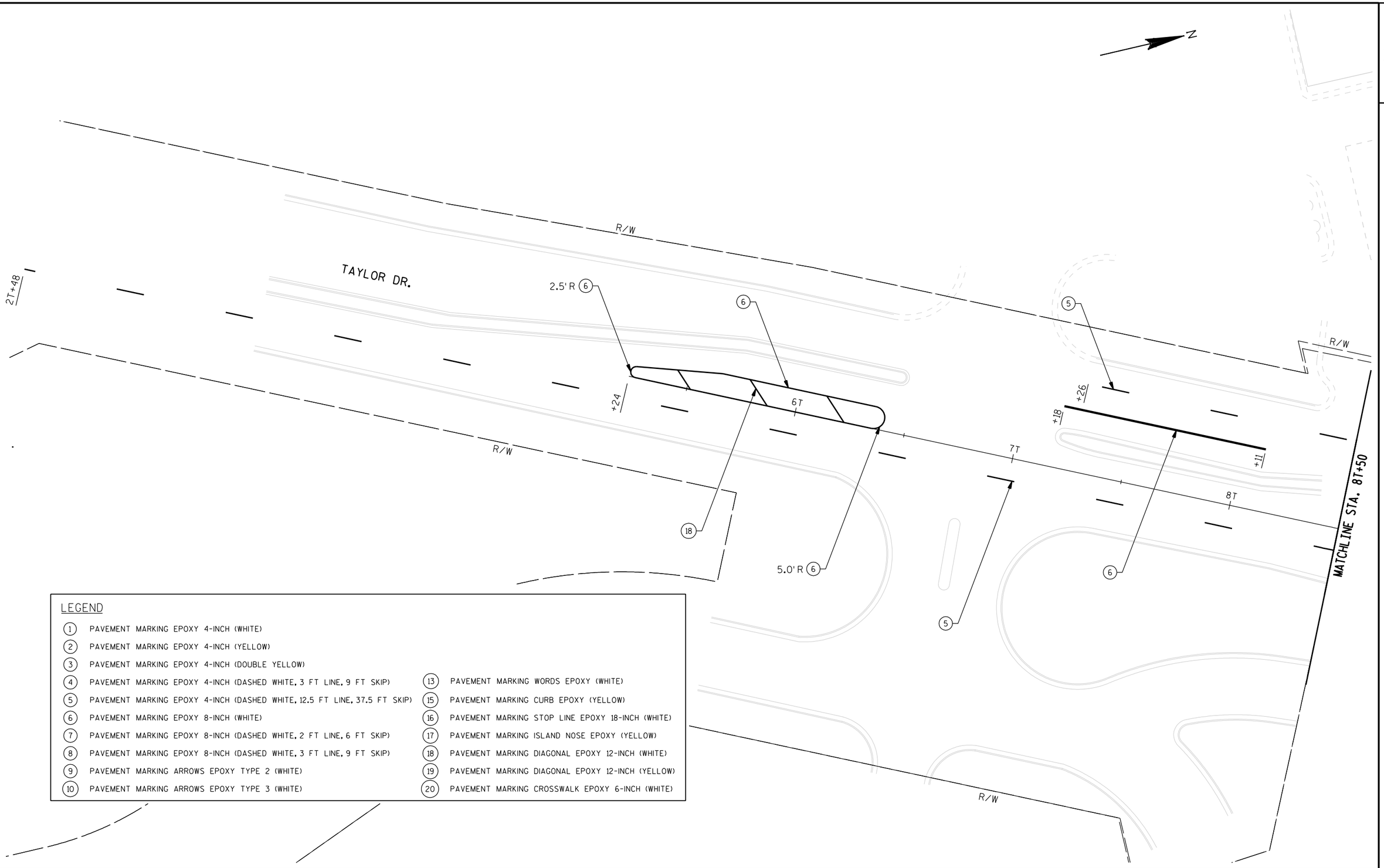


LEGEND

(1)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(13)	PAVEMENT MARKING WORDS EPOXY (WHITE)
(2)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(15)	PAVEMENT MARKING CURB EPOXY (YELLOW)
(3)	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	(16)	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
(4)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	(17)	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
(5)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)	(18)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
(6)	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	(19)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
(7)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)	(20)	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
(8)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
(9)	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
(10)	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: NB RAMPS	SHEET 100	E

2

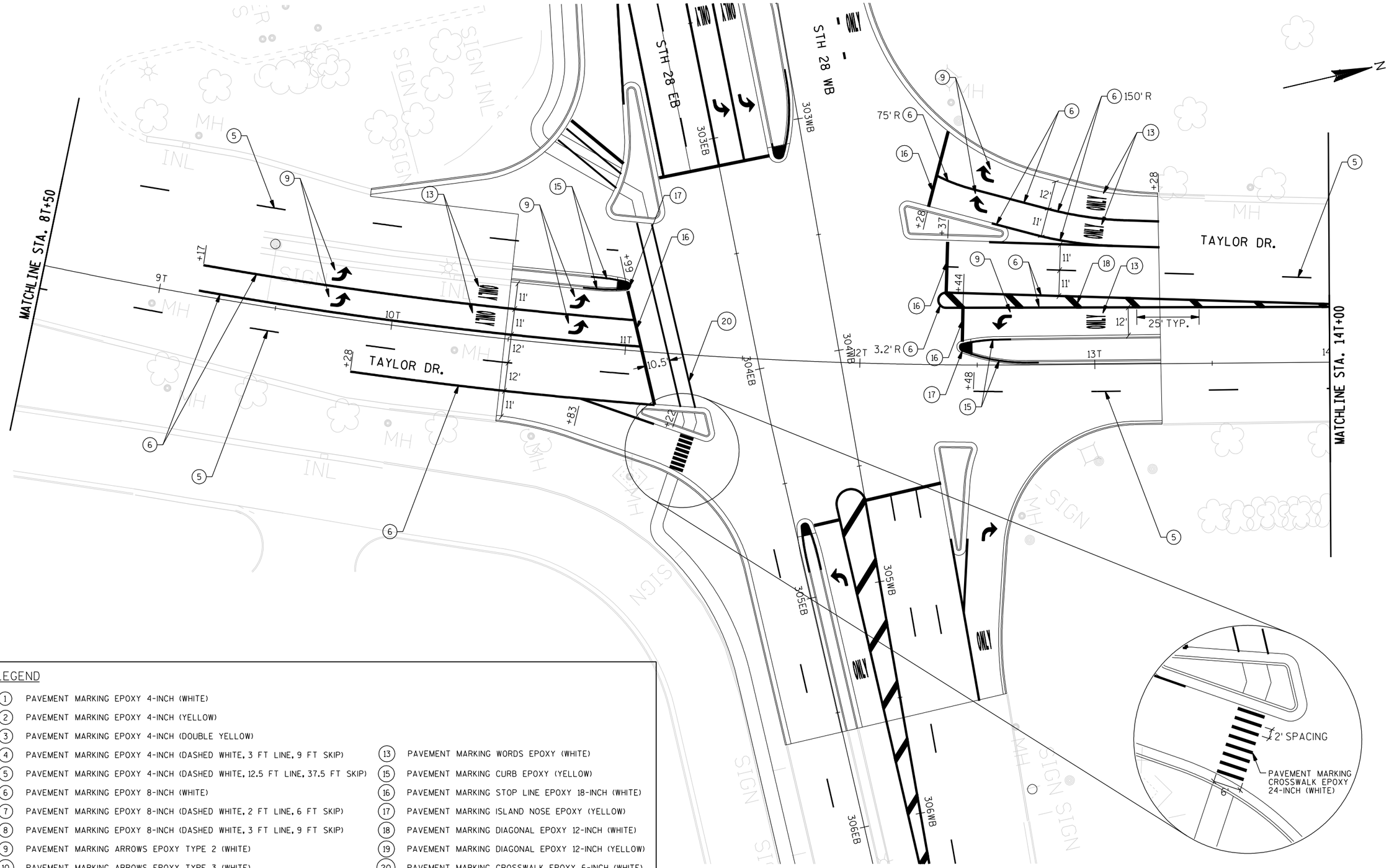


LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	13	PAVEMENT MARKING WORDS EPOXY (WHITE)
2	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	15	PAVEMENT MARKING CURB EPOXY (YELLOW)
3	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	16	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
4	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	17	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
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8	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
9	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
10	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: TAYLOR DRIVE	SHEET 101	E

2

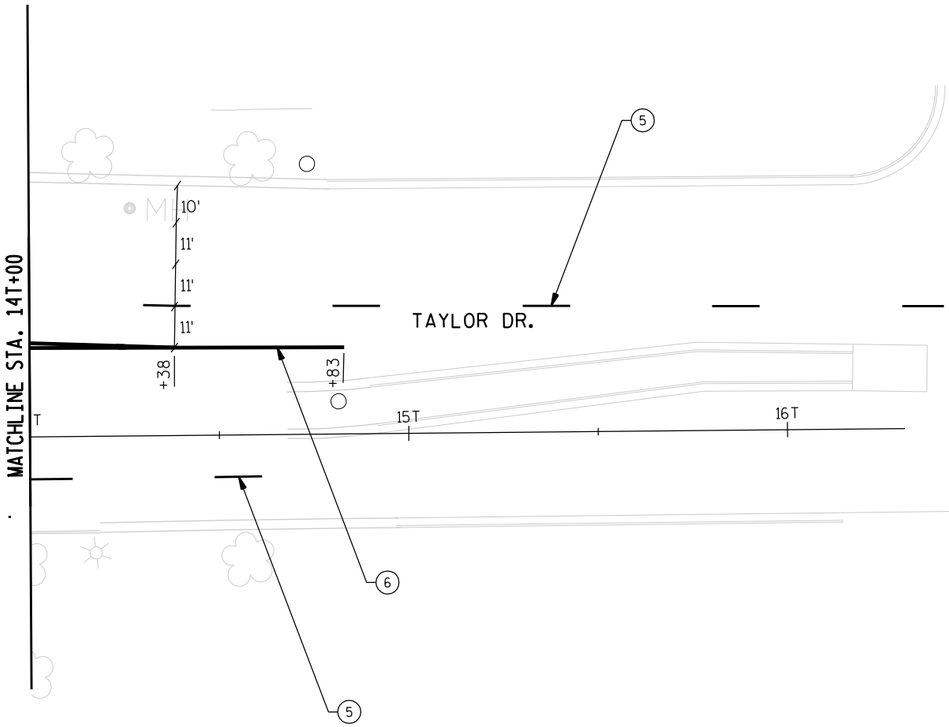


LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
2. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
3. PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)
4. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)
5. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
7. PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)
8. PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)
9. PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
10. PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
13. PAVEMENT MARKING WORDS EPOXY (WHITE)
15. PAVEMENT MARKING CURB EPOXY (YELLOW)
16. PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
17. PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
18. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
19. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
20. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: TAYLOR DRIVE	SHEET 102	E

2



LEGEND

(1)	PAVEMENT MARKING EPOXY 4-INCH (WHITE)	(13)	PAVEMENT MARKING WORDS EPOXY (WHITE)
(2)	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)	(15)	PAVEMENT MARKING CURB EPOXY (YELLOW)
(3)	PAVEMENT MARKING EPOXY 4-INCH (DOUBLE YELLOW)	(16)	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
(4)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)	(17)	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
(5)	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE, 12.5 FT LINE, 37.5 FT SKIP)	(18)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE)
(6)	PAVEMENT MARKING EPOXY 8-INCH (WHITE)	(19)	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
(7)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 2 FT LINE, 6 FT SKIP)	(20)	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH (WHITE)
(8)	PAVEMENT MARKING EPOXY 8-INCH (DASHED WHITE, 3 FT LINE, 9 FT SKIP)		
(9)	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)		
(10)	PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)		

2

N

CTH A

21 SPACES AT 210'

20'

24'

20'

3P

2P

1P

9.34'

27 SPACES AT 270'

℄ PARK AND RIDE

PAVEMENT MARKING DIAGONAL EPOXY 6-INCH (WHITE)

PAVEMENT MARKING PARKING STALL EPOXY (WHITE) TYP.

SIGN

HWY

IH 43 SB ENT.

237SW

238SW

239SW

240SW

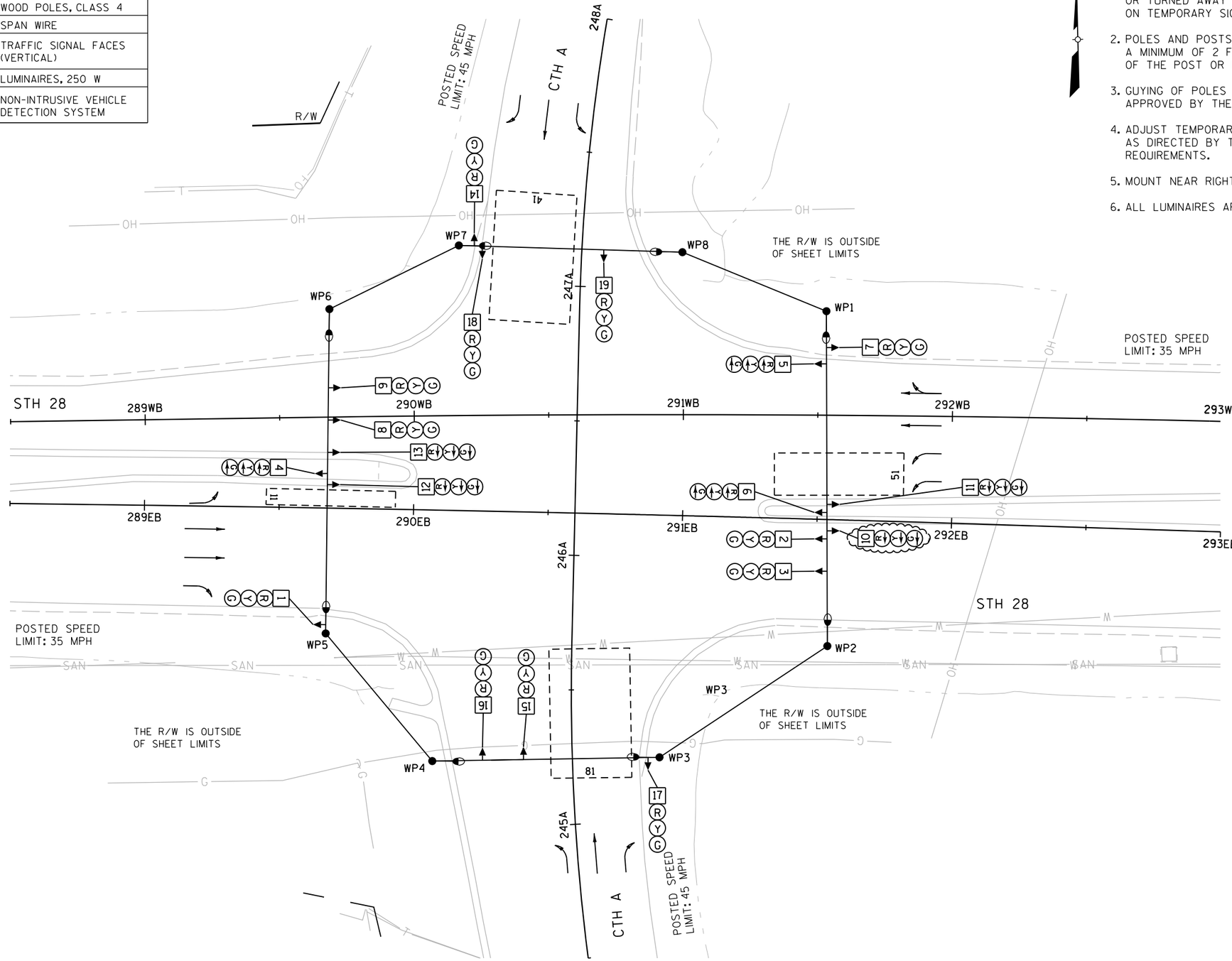
241SW

242SW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT PAVEMENT MARKING: PARK AND RIDE	SHEET 104	E

2

SUMMARY OF MATERIALS FOR INFORMATION ONLY	
8	WOOD POLES, CLASS 4
1,500 (FEET)	SPAN WIRE
19	TRAFFIC SIGNAL FACES (VERTICAL)
8	LUMINAIRES, 250 W
1	NON-INTRUSIVE VEHICLE DETECTION SYSTEM



CONSTRUCTION NOTES:

1. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
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.
6. ALL LUMINAIRES ARE 250 W HPS UNLESS OTHERWISE NOTED.

LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

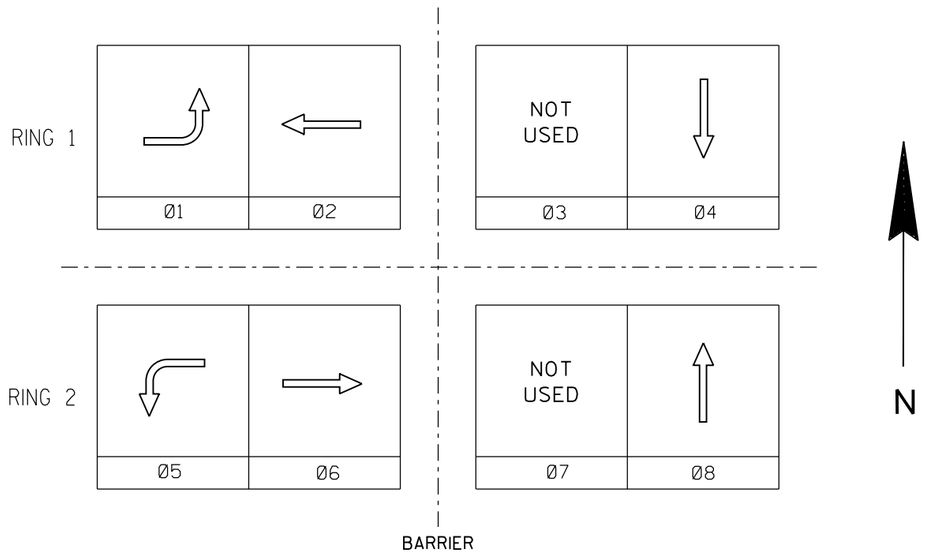
PAGE 1 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION STAGE	SHEET 105	E

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PLOT DATE: 7/29/2015
PLOT TIME: 2:37:19 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4, 5, 6	R
Ø2	7, 8, 9	R
Ø3		-
Ø4	14, 15, 16	R
Ø5	10, 11, 12, 13	R
Ø6	1, 2, 3	R
Ø7		-
Ø8	17, 18, 19	R

O.L. ASSIGNMENTS		
OLA		
OLB		
OLC		
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3				
4		8		X
5		2		X
6	X	2	MAX	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,4,8
2	5 OR 6	1,4,8
3		
4	8	1,2,5,6
5	1 OR 2	4,6,8
6	1 OR 2	4,5,8
7		
8	4	1,2,5,6

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11		X			1	1					
41		X			4	4					
51		X			5	5					
81		X			8	8					

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

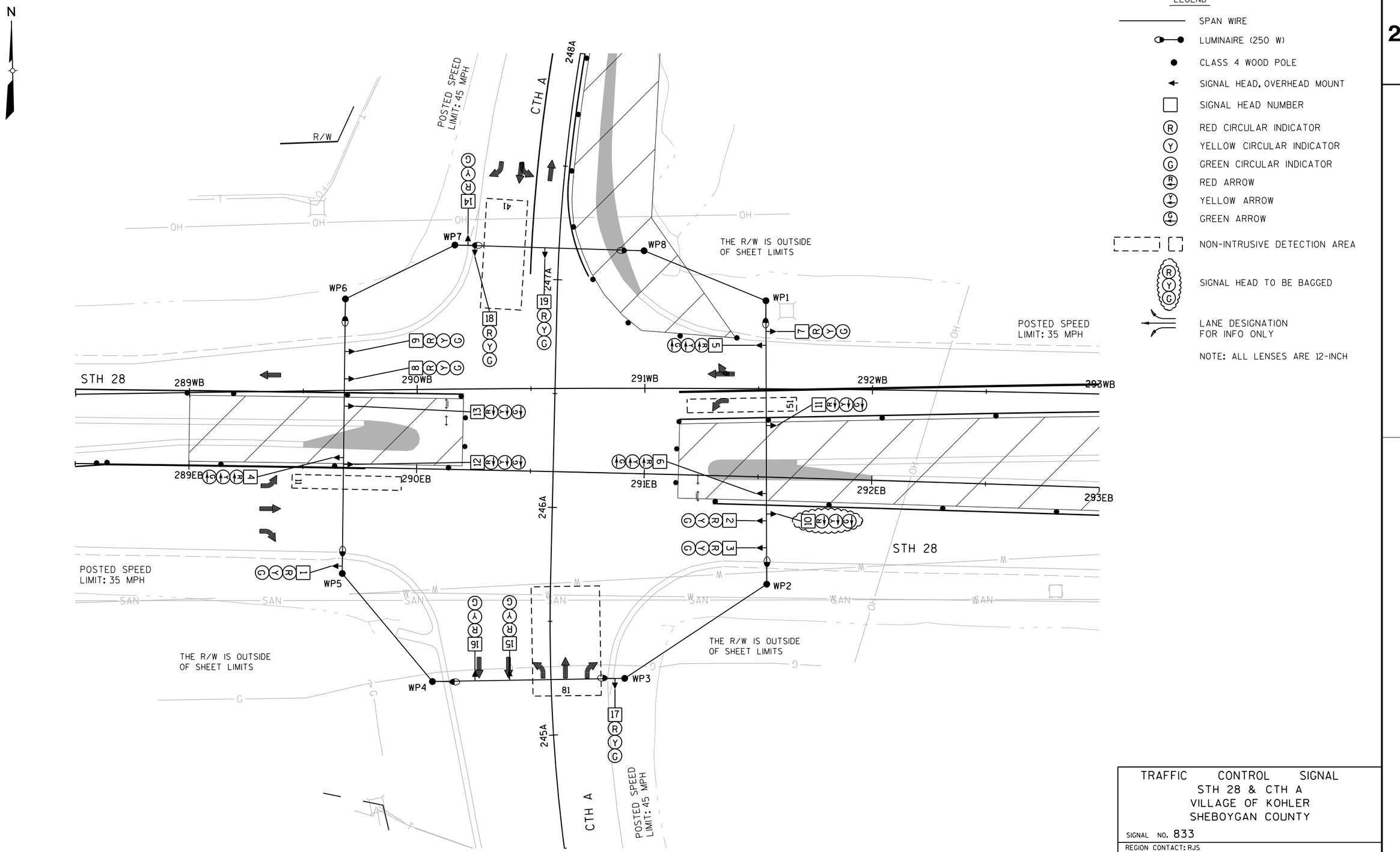
SIGNAL NO. 833

CONTROLLER TYPE: TEMP

DATE MARCH 2015

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - PRECON | SHEET 106 | E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\Temp_sequence_sh2_CTH A.dgn
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PLOT TIME: 2:37:22 PM
PLOT SCALE: 1:40
BATCH PRINT SHEET 2 OF 63
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

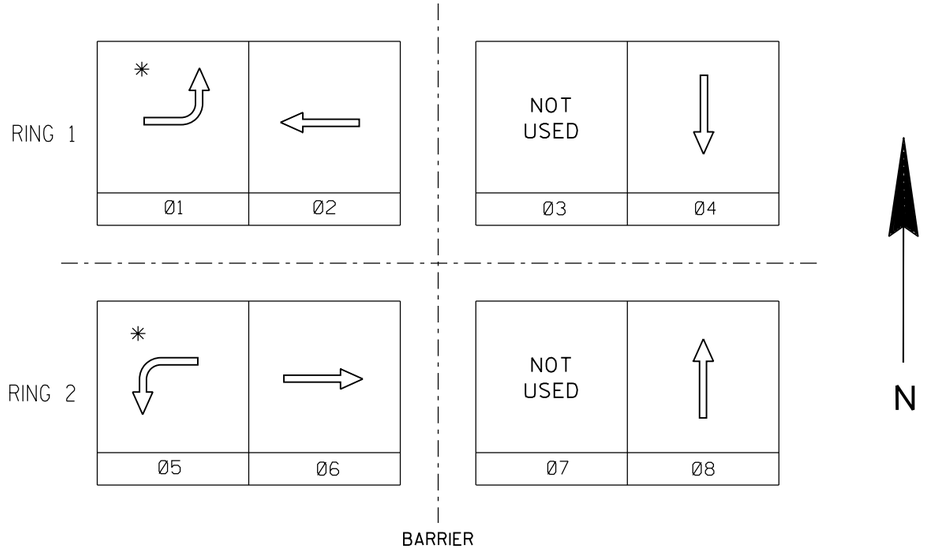
PAGE 3 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 107	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000.CAD\001_Drawings\Design\temp_sig_sh3_CTH A.dgn
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PLOT TIME: 2:37:28 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	1, 2, 3, 4, 5, 6	R, R
Ø2	7, 8, 9, 10, 11, 12	R, R
Ø3		-
Ø4	14, 15, 16	R
Ø5		-
Ø6		-
Ø7		-
Ø8	17, 18, 19	R

O.L. ASSIGNMENTS			
OLA			
OLB			
OLC			
OLD			



* PHASE 1 AND PHASE 5 CANNOT TIME CONCURRENTLY. ONE OF THESE PHASES MUST BE A LAGGING PHASE.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3				
4		8		X
5		2		X
6	X	2	MAX	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	6	2,4,5,8
2	5 OR 6	1,4,8
3		
4	8	1,2,5,6
5	2	1,4,6,8
6	1 OR 2	4,5,8
7		
8	4	1,2,5,6

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11		X			1	1					
41		X			4	4					
51		X			5	5					
81		X			8	8					

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

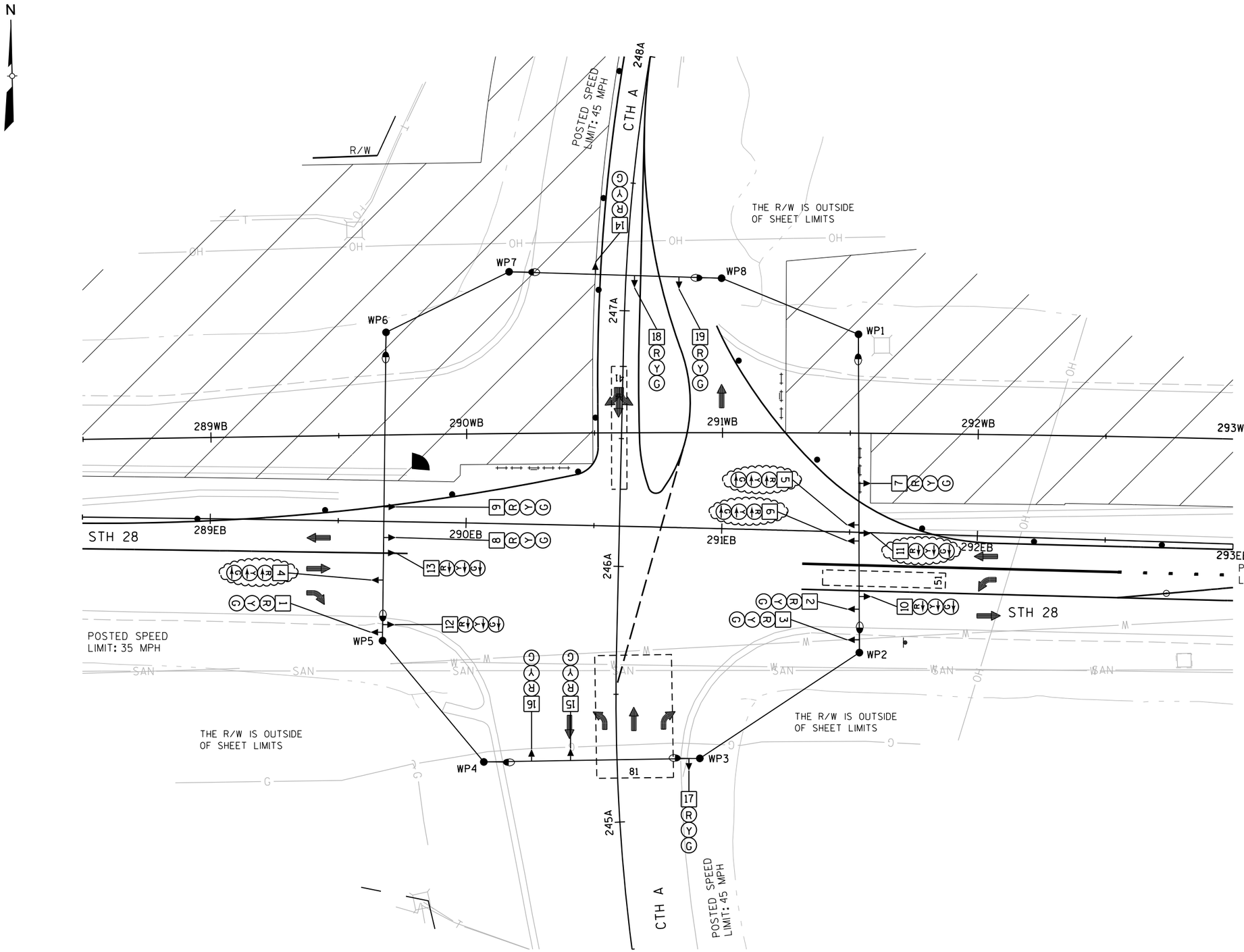
STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

CONTROLLER TYPE: TEMP

DATE MARCH 2015

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PLOT TIME: 2:37:31 PM
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BATCH PRINT SHEET 4 OF 63
WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 5 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 109	E

2

N

LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

R/W

POSTED SPEED LIMIT: 45 MPH

CTH A

248A

247A

246A

245A

OH

WP1

WP2

WP3

WP4

WP5

WP6

WP7

WP8

THE R/W IS OUTSIDE OF SHEET LIMITS

POSTED SPEED LIMIT: 35 MPH

289WB

290WB

291WB

292WB

293WB

STH 28

289EB

290EB

291EB

292EB

293EB

SAN

THE R/W IS OUTSIDE OF SHEET LIMITS

POSTED SPEED LIMIT: 45 MPH

CTH A

TRAFFIC CONTROL SIGNAL
STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 6 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1C	SHEET 110	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh6_CTH A.dgn
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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

STH 28

CTH A

POSTED SPEED LIMIT: 45 MPH

POSTED SPEED LIMIT: 35 MPH

R/W

OH

SAN

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

THE R/W IS OUTSIDE OF SHEET LIMITS

289WB 290WB 291WB 292WB 293WB

289EB 290EB 291EB 292EB 293EB

247A 248A 246A 245A

TRAFFIC CONTROL SIGNAL
STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 7 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A & 2B	SHEET 111	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh7_CTH A.dgn
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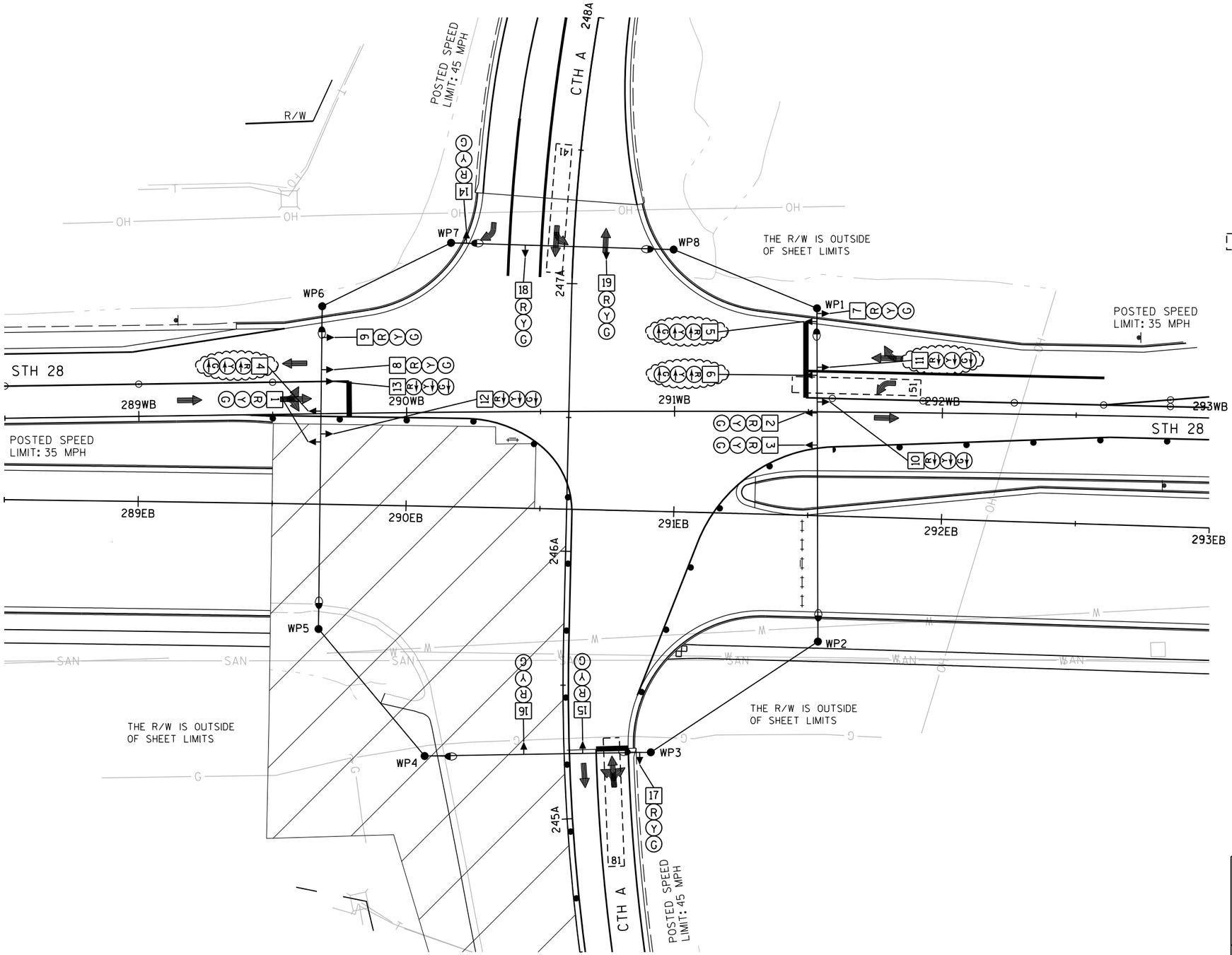
2

N

LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH



TRAFFIC CONTROL SIGNAL
STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

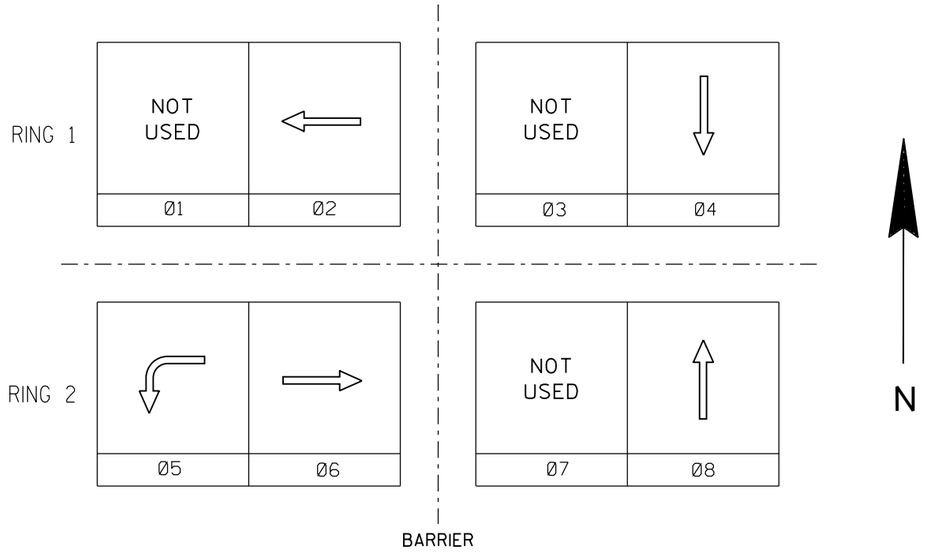
PAGE 8 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2C	SHEET 112	E

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WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	4, 5, 6	R
Ø2	7, 8, 9	R
Ø3		-
Ø4	14, 15, 16	R
Ø5	10, 11, 12, 13	R
Ø6	1, 2, 3	R
Ø7		-
Ø8	17, 18, 19	R

O.L. ASSIGNMENTS		
OLA		
OLB		
OLC		
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MAX	x
3				
4		8		x
5		2		x
6	X	2	MAX	x
7				
8		4		x

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	x
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	x
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	x
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	5 OR 6	4,8
3		
4	8	2,5,6
5	2	4,6,8
6	2	4,5,8
7		
8	4	2,5,6

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
41		X			4	4					
51		X			5	5					
81		X			8	8					

TYPE OF PRE-EMPT	
NONE	x
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

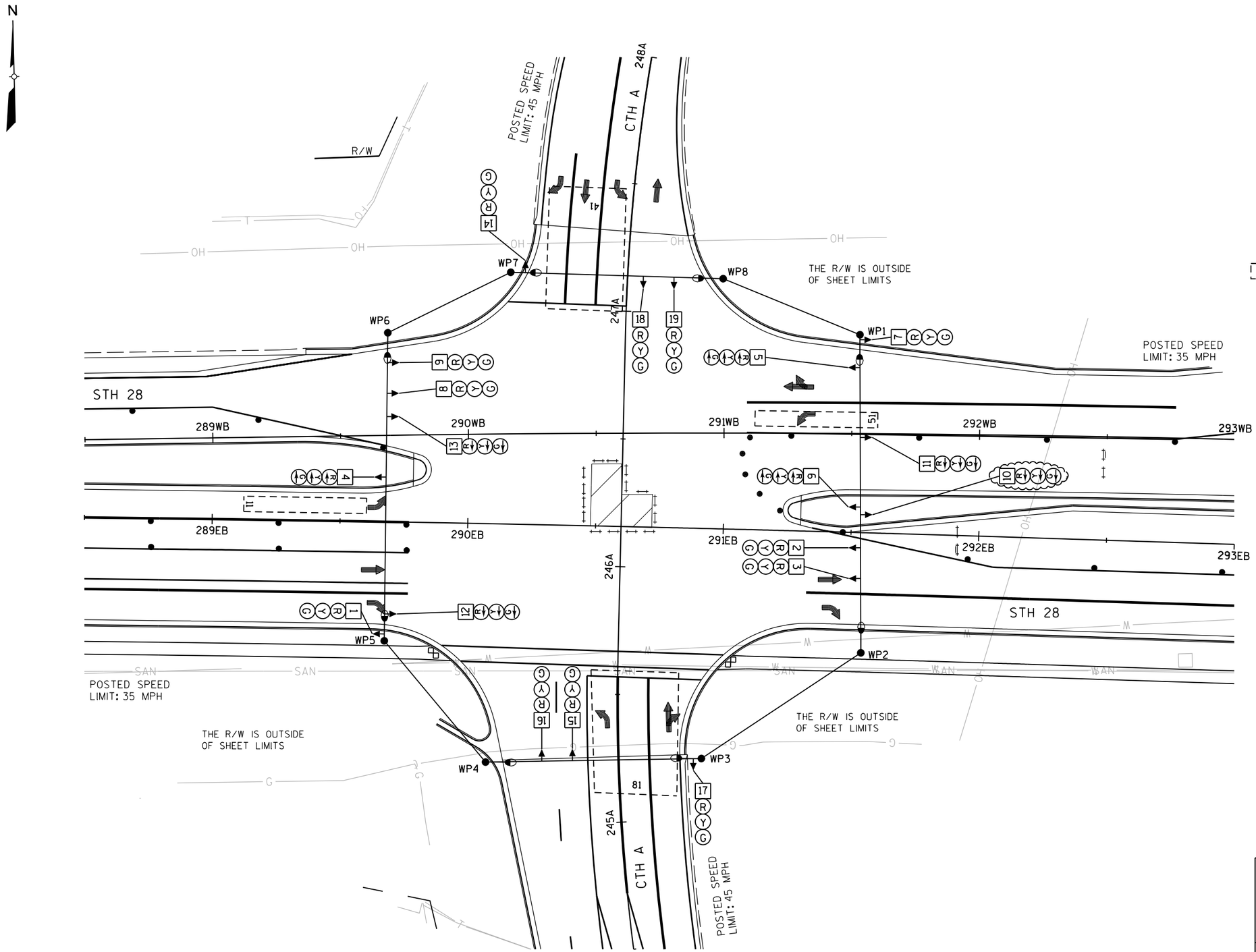
SIGNAL NO. 833

CONTROLLER TYPE: TEMP

DATE MARCH 2015

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - STAGES 1B, 1C, 2A, 2B, &2C | SHEET 113 | E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\Temp_sequence_sh9_CTH A.dgn
BATCH PRINT SHEET 9 OF 63
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PLOT DATE: 7/29/2015
PLOT TIME: 2:37:54 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

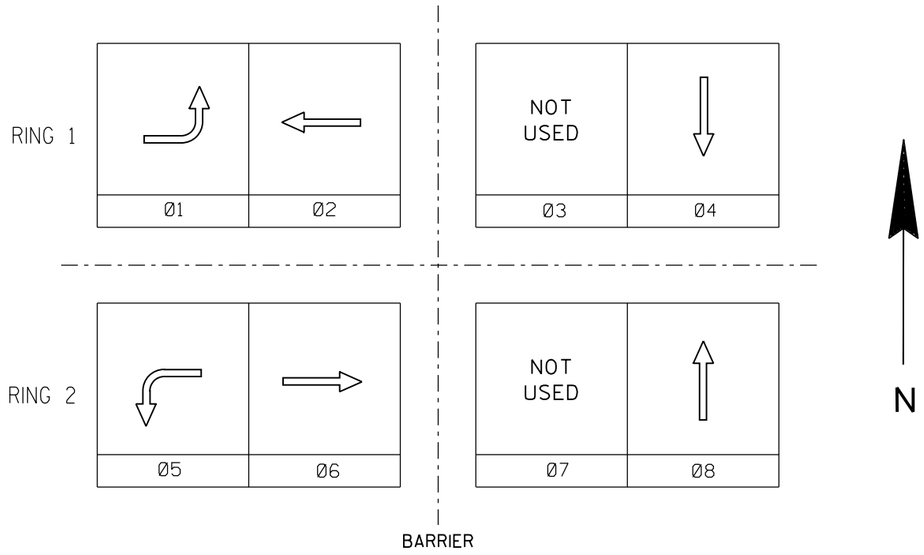
PAGE 10 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 114	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh10_CTH A.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:37:59 PM
PLOT SCALE: 1:40

	HEAD NUMBERS	FLASH
Ø1	4, 5, 6	R
Ø2	7, 8, 9	R
Ø3		-
Ø4	14, 15, 16	R
Ø5	10, 11, 12, 13	R
Ø6	1, 2, 3	R
Ø7		-
Ø8	17, 18, 19	R

O.L. ASSIGNMENTS		
OLA		
OLB		
OLC		
OLD		



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3				
4		8		X
5				
6	X	2	MAX	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	6	2,4,5,8
2	5 OR 6	1,4,8
3		
4	8	1,2,5,6
5	2	1,4,6,8
6	1 OR 2	4,5,8
7		
8	4	1,2,5,6

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11		X			1	1					
41		X			4	4					
51		X			5	5					
81		X			8	8					

STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

CONTROLLER TYPE: TEMP

DATE MARCH 2015 PAGE NO. 11 OF 13

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - STAGE 3 | SHEET 115 | E

2

N

LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

R/W

POSTED SPEED LIMIT: 45 MPH

CTH A

248A

246A

245A

ONLY

OH

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

THE R/W IS OUTSIDE OF SHEET LIMITS

POSTED SPEED LIMIT: 35 MPH

289WB 290WB 291WB 292WB 293WB

289EB 290EB 291EB 292EB 293EB

STH 28

SAN

M

G

TRAFFIC CONTROL SIGNAL
STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

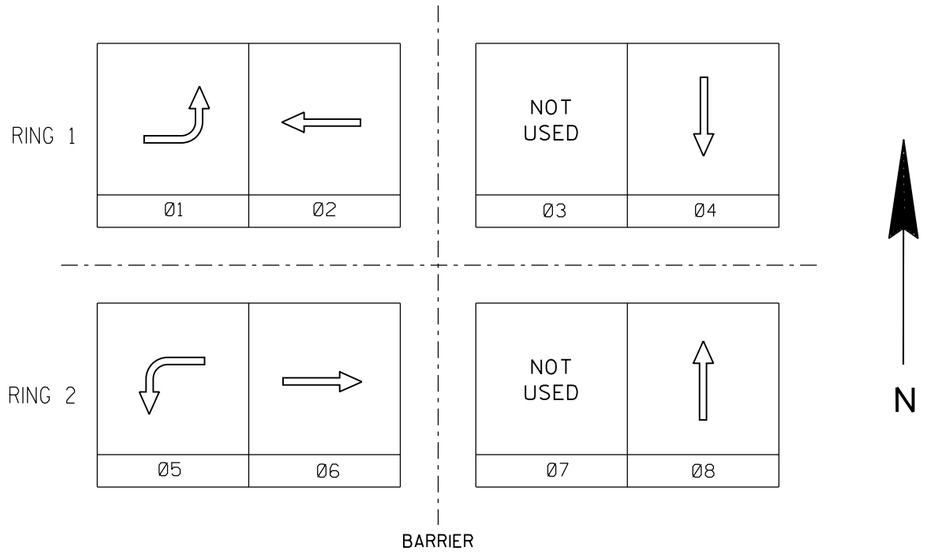
REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 12 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - POSTCONSTRUCTION STAGE	SHEET 116	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000.CAD\001_Drawings\Design\temp_sig_sh12_CTH A.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:38:06 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH	O.L. ASSIGNMENTS
Ø1	4, 5, 6	R	
Ø2	7, 8, 9	R	
Ø3		-	
Ø4	14, 15, 16	R	
Ø5	10, 11, 12, 13	R	
Ø6	1, 2, 3	R	
Ø7		-	
Ø8	17, 18, 19	R	
OLA		-	
OLB		-	
OLC		-	
OLD		-	



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3				
4		8		X
5		2		X
6	X	2	MAX	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	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					
41		X			4	4					
51		X			5	5					
81		X			8	8					

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,4,8
2	5 OR 6	1,4,8
3		
4	8	1,2,5,6
5	1 OR 2	4,6,8
6	1 OR 2	4,5,8
7		
8	4	1,2,5,6

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833

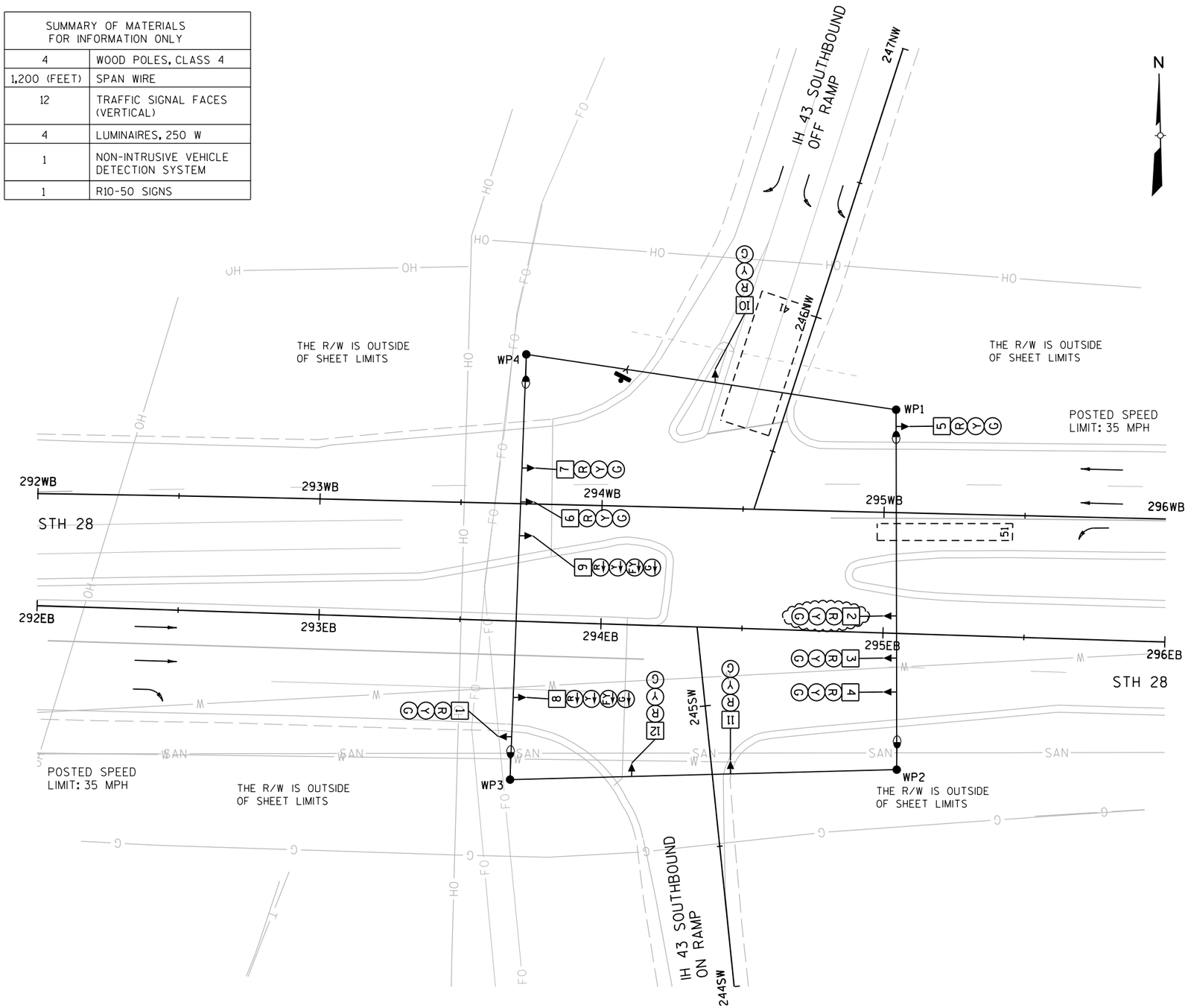
CONTROLLER TYPE: TEMP

DATE MARCH 2015

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - POSTCONSTRUCTION | SHEET 117 E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\Temp_sequence_sh13_CTH A.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:38:08 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

SUMMARY OF MATERIALS FOR INFORMATION ONLY	
4	WOOD POLES, CLASS 4
1,200 (FEET)	SPAN WIRE
12	TRAFFIC SIGNAL FACES (VERTICAL)
4	LUMINAIRES, 250 W
1	NON-INTRUSIVE VEHICLE DETECTION SYSTEM
1	R10-50 SIGNS



CONSTRUCTION NOTES:

1. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
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.
6. CONTRACTOR TO MOUNT R10-50 SIGNS (LEFT TURN YIELD TO FLASHING YELLOW ARROW) NEXT TO HEAD 9. REMOVE OR COVER SIGNS WHEN THE FLASHING YELLOW ARROW IS NOT IN USE.
7. ALL LUMINAIRES ARE 250 W HPS UNLESS OTHERWISE NOTED.

LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (R) RED ARROW
- (FY) (Y) YELLOW ARROW
- (G) GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- Y YIELD SIGN
- S STOP SIGN
- (R) (Y) (G) SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

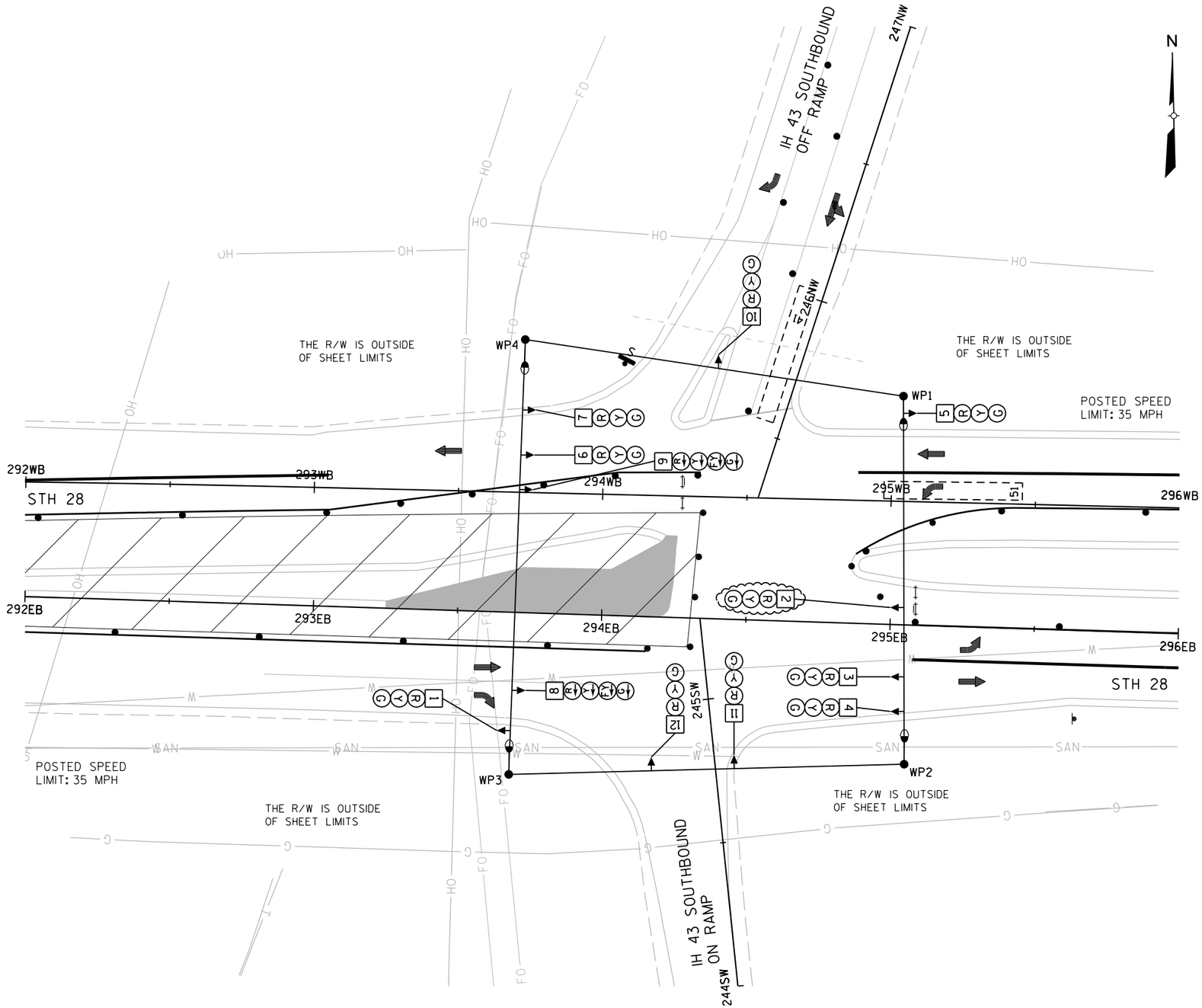
SIGNAL NO. 475

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 1 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION STAGE	SHEET 118	E

FILE NAME: L:\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh1_SB IH43 Ramps.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:38:12 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- YIELD SIGN
- STOP SIGN
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

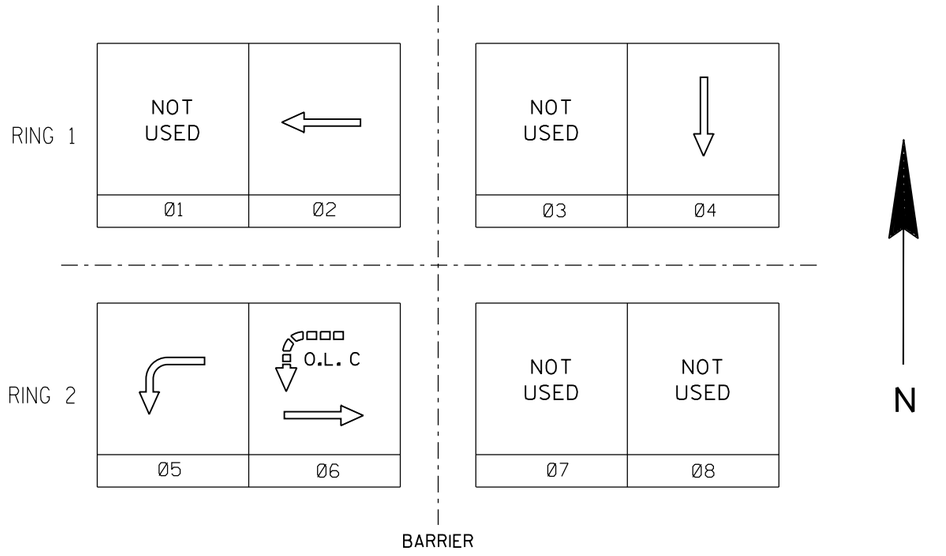
PAGE 2 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 119	E

FILE NAME: L:\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh2_SB IH43 Ramps.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:38:17 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

	HEAD NUMBERS	FLASH	
Ø1			
Ø2	5, 6, 7	R	
Ø3			
Ø4	10, 11, 12	R	
Ø5	8, 9	R	
Ø6	1, 2, 3, 4	R	
Ø7			
Ø8			O.L. ASSIGNMENTS
OLA			
OLB			
OLC	8,9	R	5 + 6
OLD			



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MAX	X
3				
4				X
5		2		X
6	X	2	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	5 OR 6	4
3		
4	-	2,5,6
5	2	4,6
6	2	4,5
7		
8		

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
41		X			4	4					
51		X			5	5					

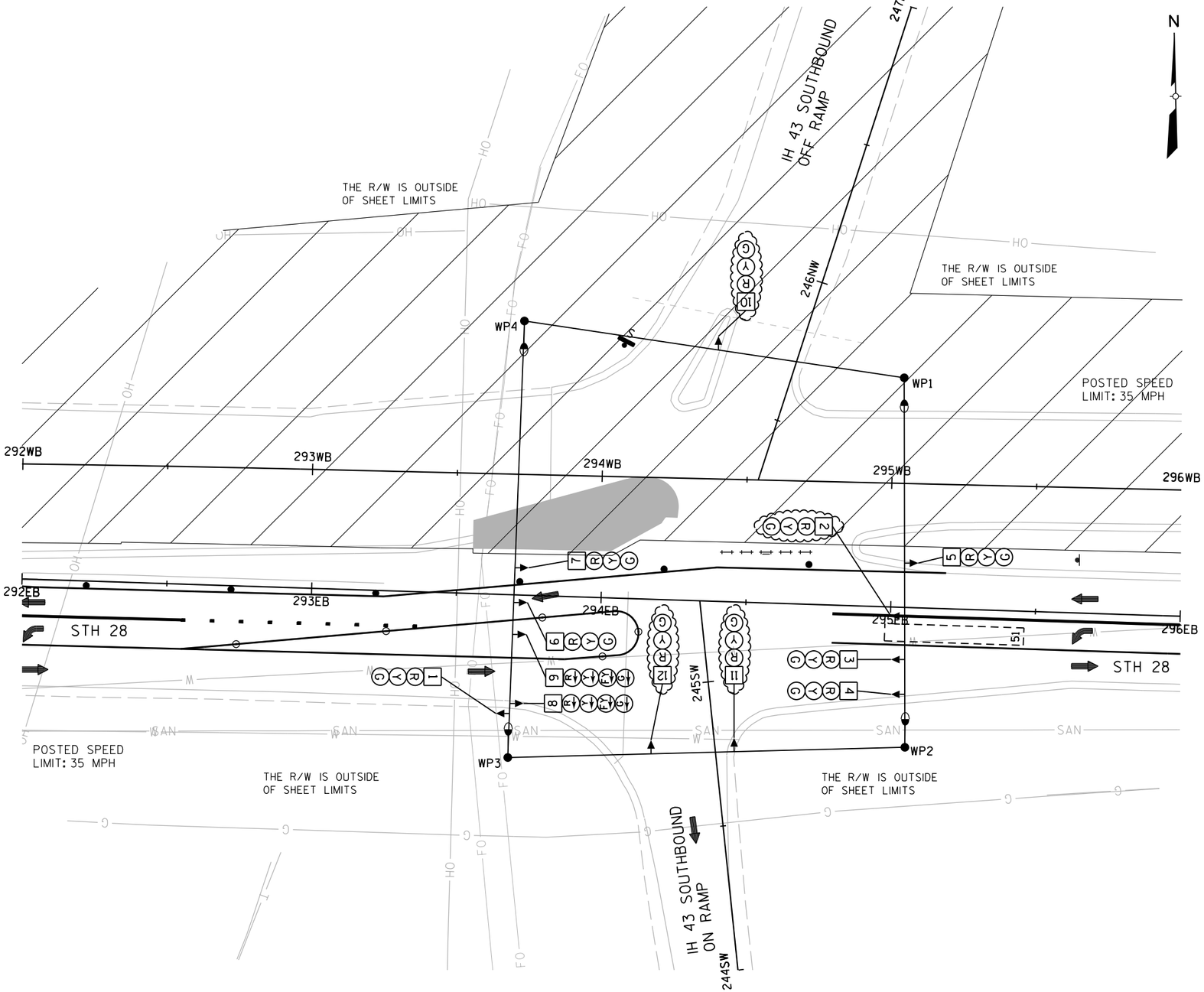
IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475

CONTROLLER TYPE: TEMP

DATE DECEMBER 2014 PAGE NO. 3 OF 13

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PLOT DATE: 7/29/2015
PLOT TIME: 2:38:20 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- YIELD SIGN
- STOP SIGN
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

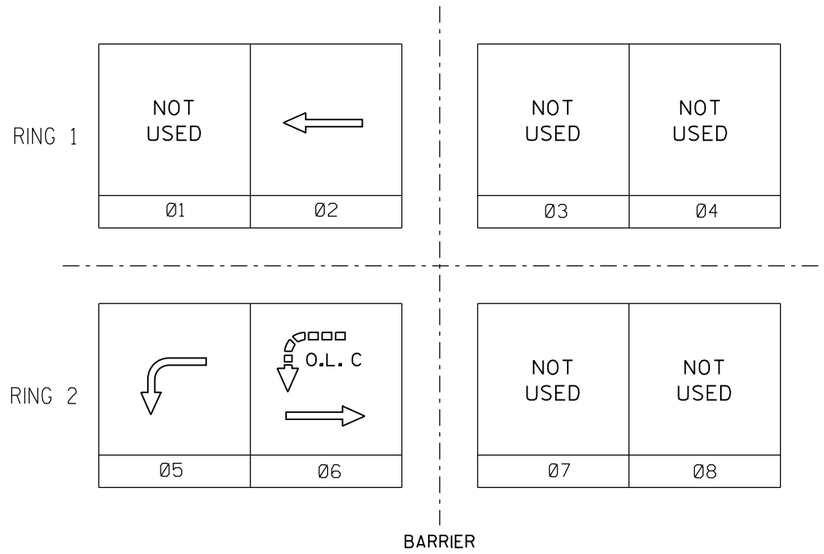
PAGE 4 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 121	E

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PLOT TIME: 2:38:24 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1		
Ø2	5, 6, 7	R
Ø3		
Ø4	10, 11, 12	R
Ø5	8, 9	R
Ø6	1, 2, 3, 4	R
Ø7		
Ø8		
OLA		
OLB		
OLC	8,9	R
OLD		

O.L. ASSIGNMENTS
5 + 6



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MAX	X
3				
4				
5		2		X
6	X	2	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	5 OR 6	-
3		
4		
5	2	6
6	2	5
7		
8		

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	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
51		X			5	5					

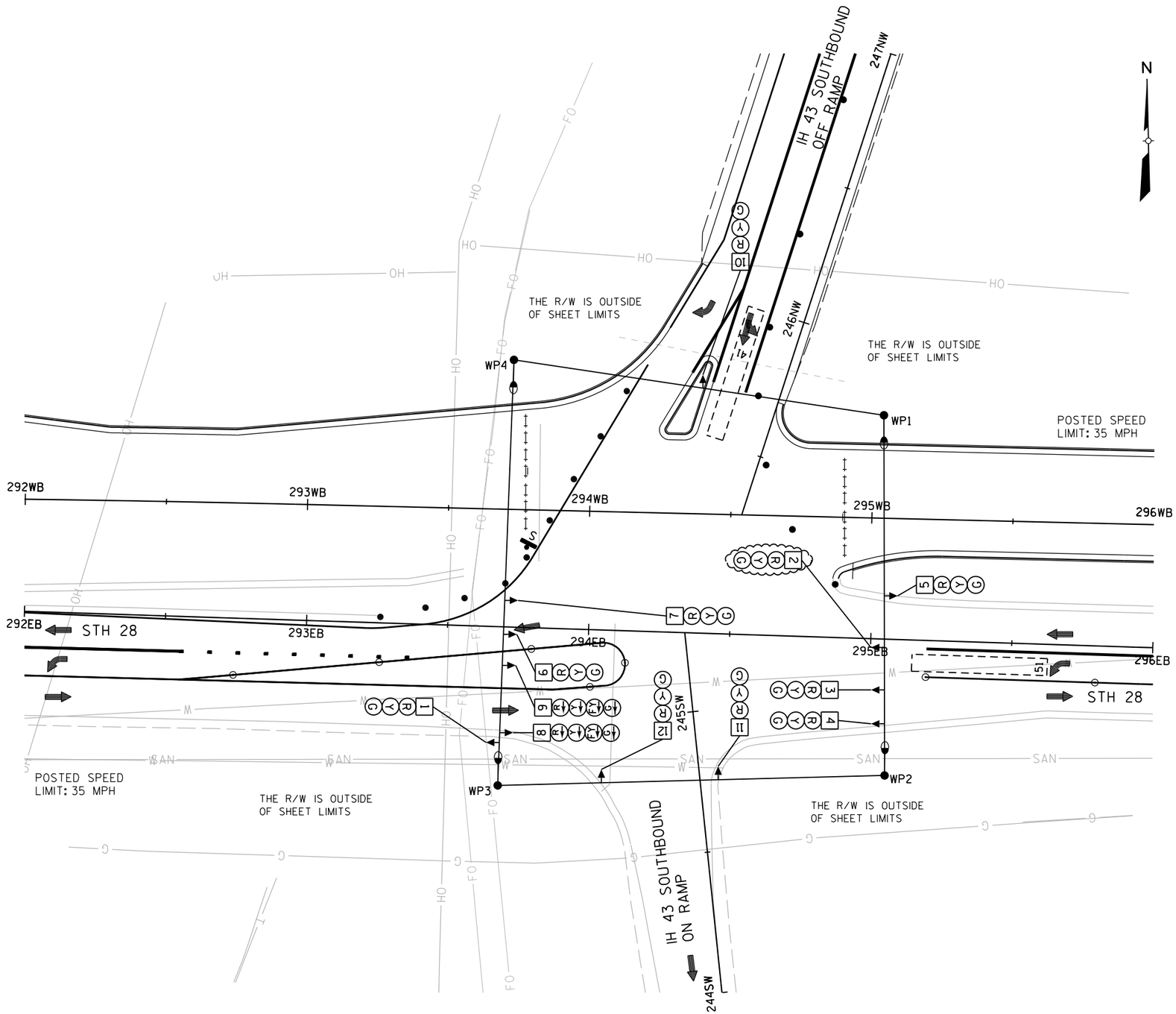
IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475

CONTROLLER TYPE: TEMP

DATE DECEMBER 2014 PAGE NO. 5 OF 13

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - STAGE 1B | SHEET 122 | E



LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- YIELD SIGN
- STOP SIGN
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

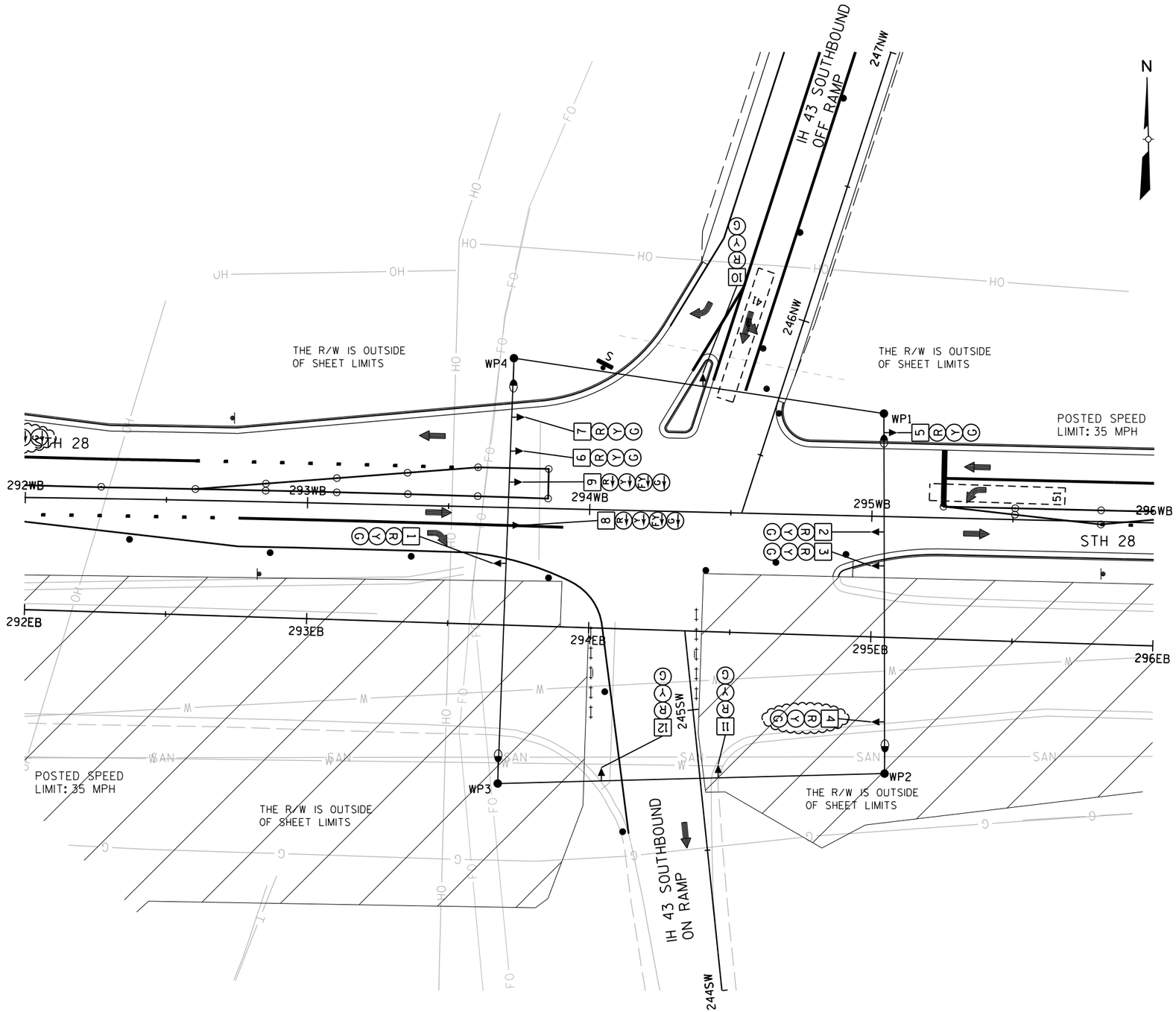
SIGNAL NO. 475

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 6 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1C	SHEET 123	E

FILE NAME: L:\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh6_SB IH43 Ramps.dgn
BATCH PRINT SHEET 19 OF 63
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PLOT DATE: 7/29/2015
PLOT TIME: 2:38:32 PM
PLOT SCALE: 1:40



LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- YIELD SIGN
- STOP SIGN
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475

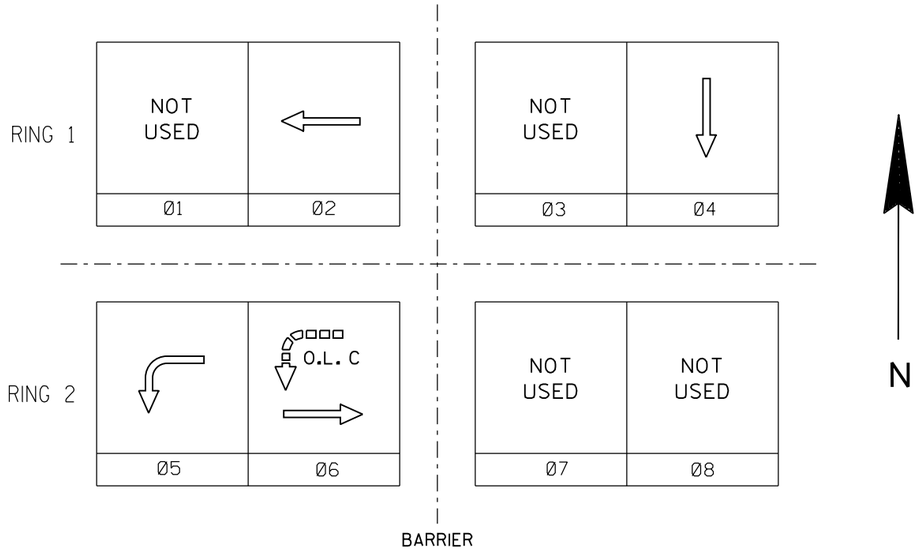
REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 7 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A & 2B	SHEET 124	E

2

	HEAD NUMBERS	FLASH	
Ø1			
Ø2	5, 6, 7	R	
Ø3			
Ø4	10, 11, 12	R	
Ø5	8, 9	R	
Ø6	1, 2, 3, 4	R	
Ø7			
Ø8			O.L. ASSIGNMENTS
OLA			
OLB			
OLC	8,9	R ←	5 + 6
OLD			



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MAX	X
3				
4		8		X
5		2		X
6	X	2	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	5 OR 6	4
3		
4	-	2,5,6
5	2	4,6
6	2	4,5
7		
8		

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
41		X			4	4					
51		X			5	5					

IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

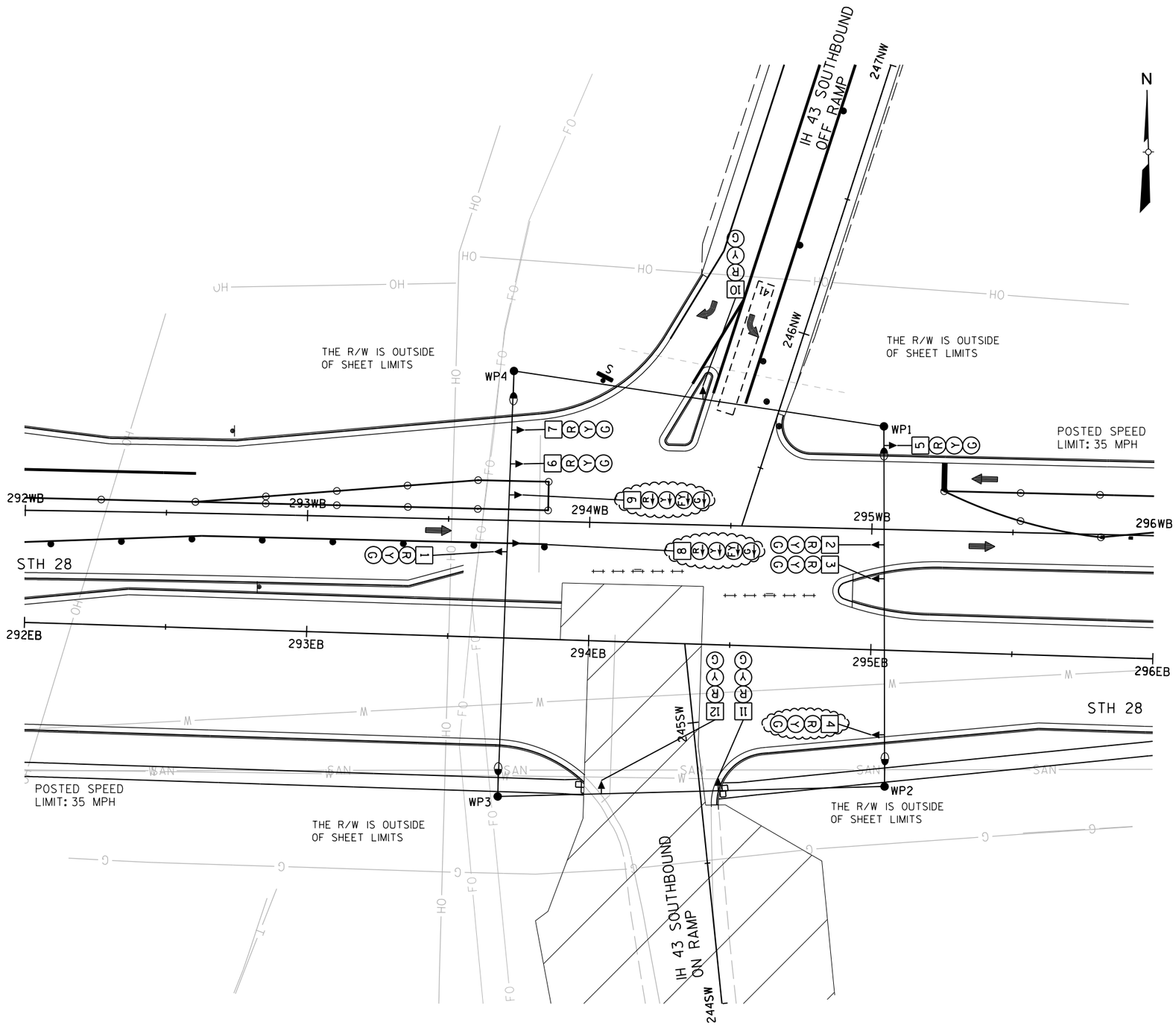
SIGNAL NO. 475

CONTROLLER TYPE: TEMP

DATE DECEMBER 2014

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - STAGE 1C, 2A, & 2B | SHEET 125 | E

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PLOT DATE: 7/29/2015
PLOT TIME: 2:38:40 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- YIELD SIGN
- STOP SIGN
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

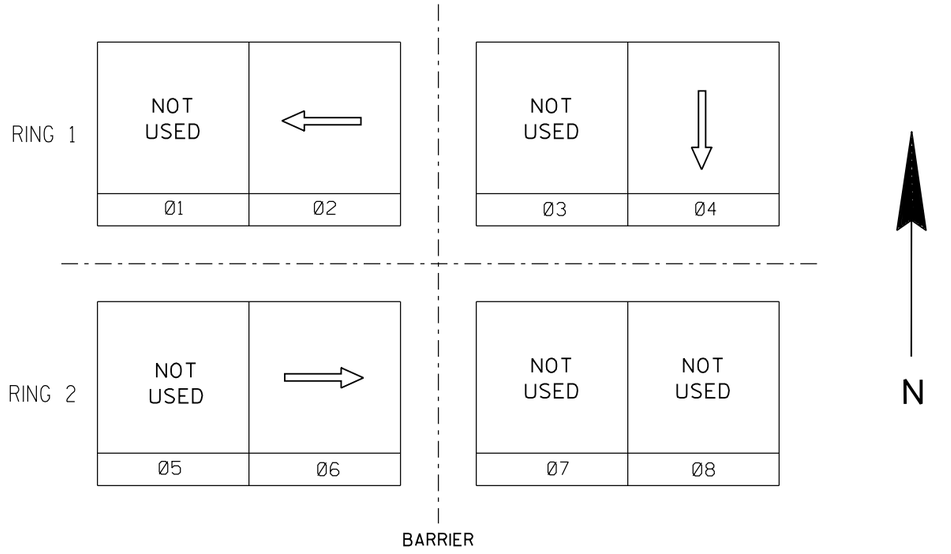
PAGE 9 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2C	SHEET 126	E

FILE NAME: L:\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh9_SB IH43 Ramps.dgn
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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

	HEAD NUMBERS	FLASH	
Ø1			
Ø2	5, 6, 7	R	
Ø3			
Ø4	10, 11, 12	R	
Ø5	8, 9	R	
Ø6	1, 2, 3, 4	R	
Ø7			
Ø8			O.L. ASSIGNMENTS
OLA			
OLB			
OLC	8,9	R ←	5 + 6
OLD			



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MAX	X
3				
4				X
5				
6	X	2	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	x
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	x
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	x
IN SEPARATE DOT LIGHTING CABINET	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	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
41		X			4	4					

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	6	4
3		
4	-	2,6
5		
6	2	4
7		
8		

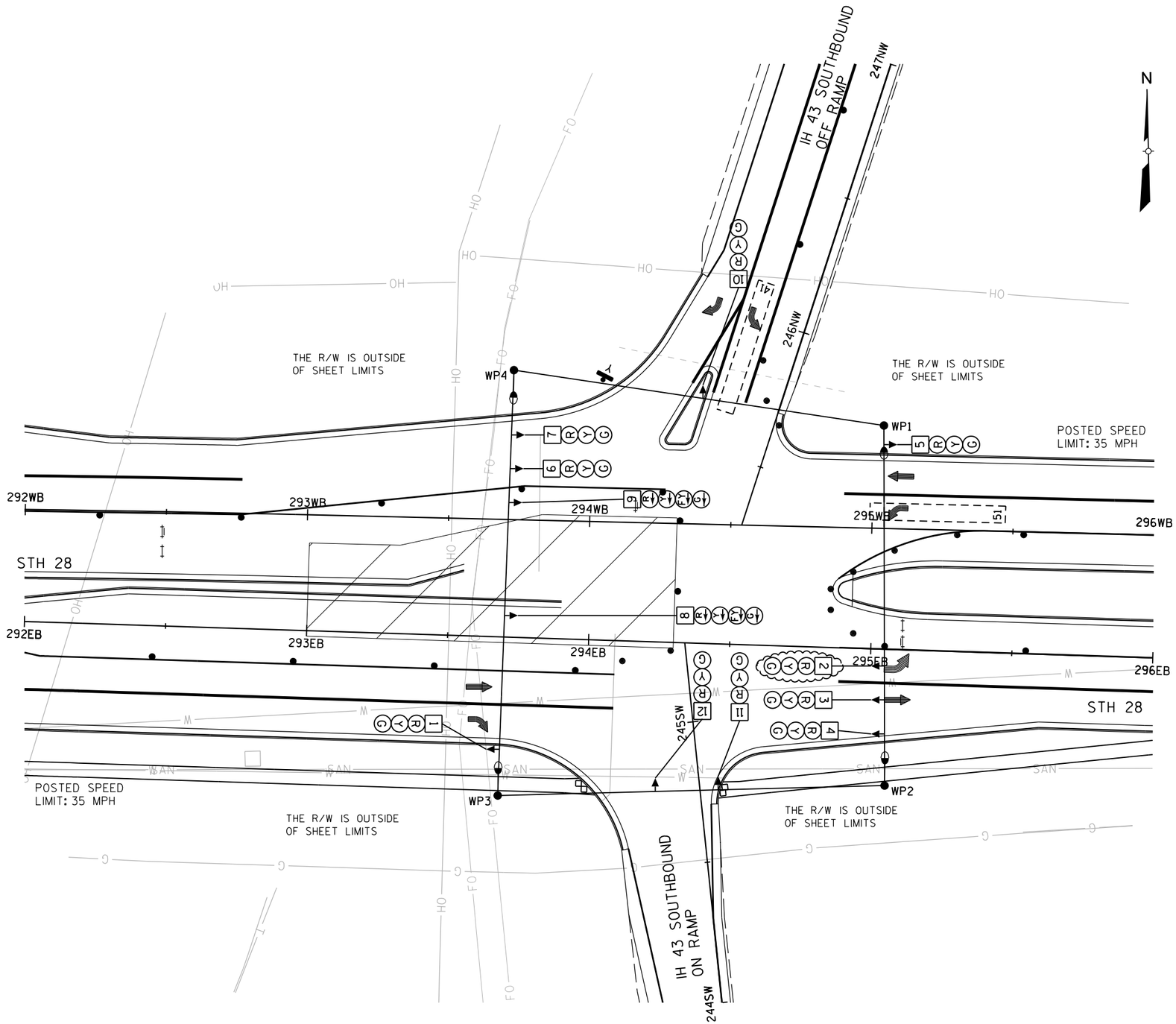
TYPE OF PRE-EMPT	
NONE	x
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475

CONTROLLER TYPE: TEMP

DATE DECEMBER 2014 PAGE NO. 10 OF 13



LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- YIELD SIGN
- STOP SIGN
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

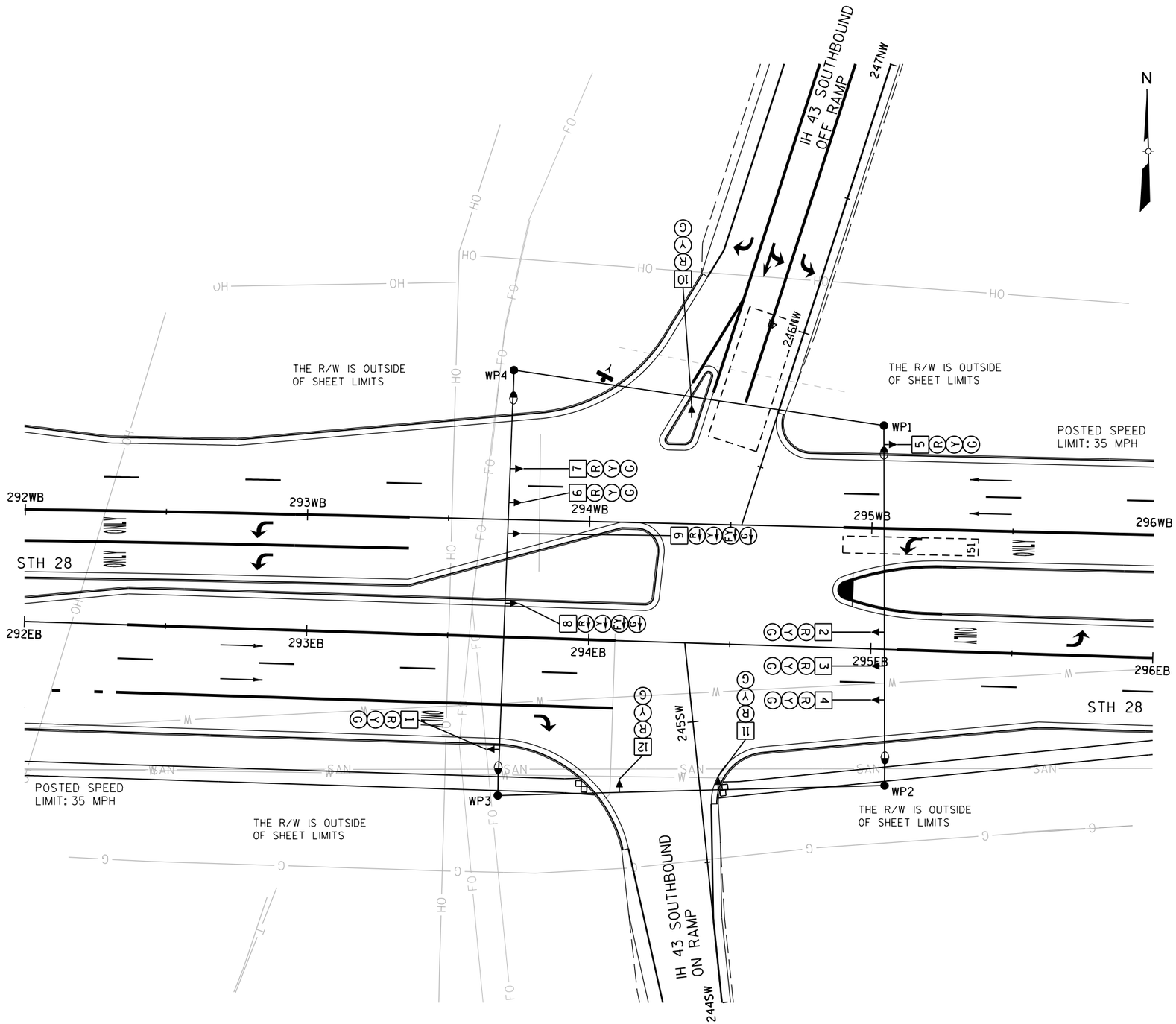
TRAFFIC CONTROL SIGNAL
IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3 | SHEET 128 | E

FILE NAME: L:\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh11_SB IH43 Ramps.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:38:51 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- YIELD SIGN
- STOP SIGN
- SIGNAL HEAD TO BE BAGGED
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475

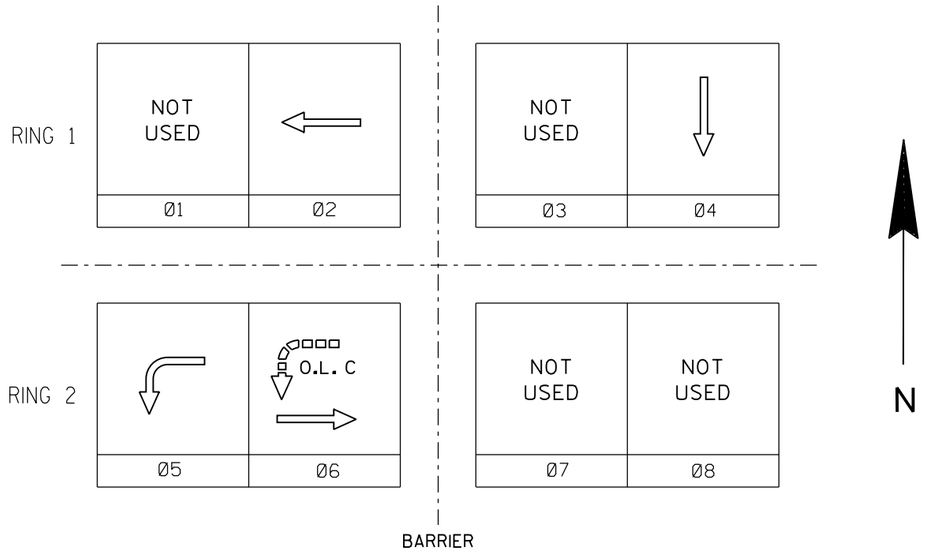
REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 12 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - POSTCONSTRUCTION STAGE	SHEET 129	E

FILE NAME: L:\work\projects\60187755\000.CAD\001.Drawings\Design\temp_sig_sh12_SB IH43 Ramps.dgn
BATCH PRINT SHEET 25 OF 63
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PLOT TIME: 2:38:54 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH	
Ø1			
Ø2	5, 6, 7	R	
Ø3			
Ø4	10, 11, 12	R	
Ø5	8, 9	R	
Ø6	1, 2, 3, 4	R	
Ø7			
Ø8			O.L. ASSIGNMENTS
OLA			
OLB			
OLC	8,9	R ←	5 + 6
OLD			



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MAX	X
3				
4				X
5		2		X
6	X	2	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	5 OR 6	4
3		
4	-	2,5,6
5	2	4,6
6	2	4,5
7		
8		

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
41		X			4	4					
51		X			5	5					

IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475

CONTROLLER TYPE: TEMP

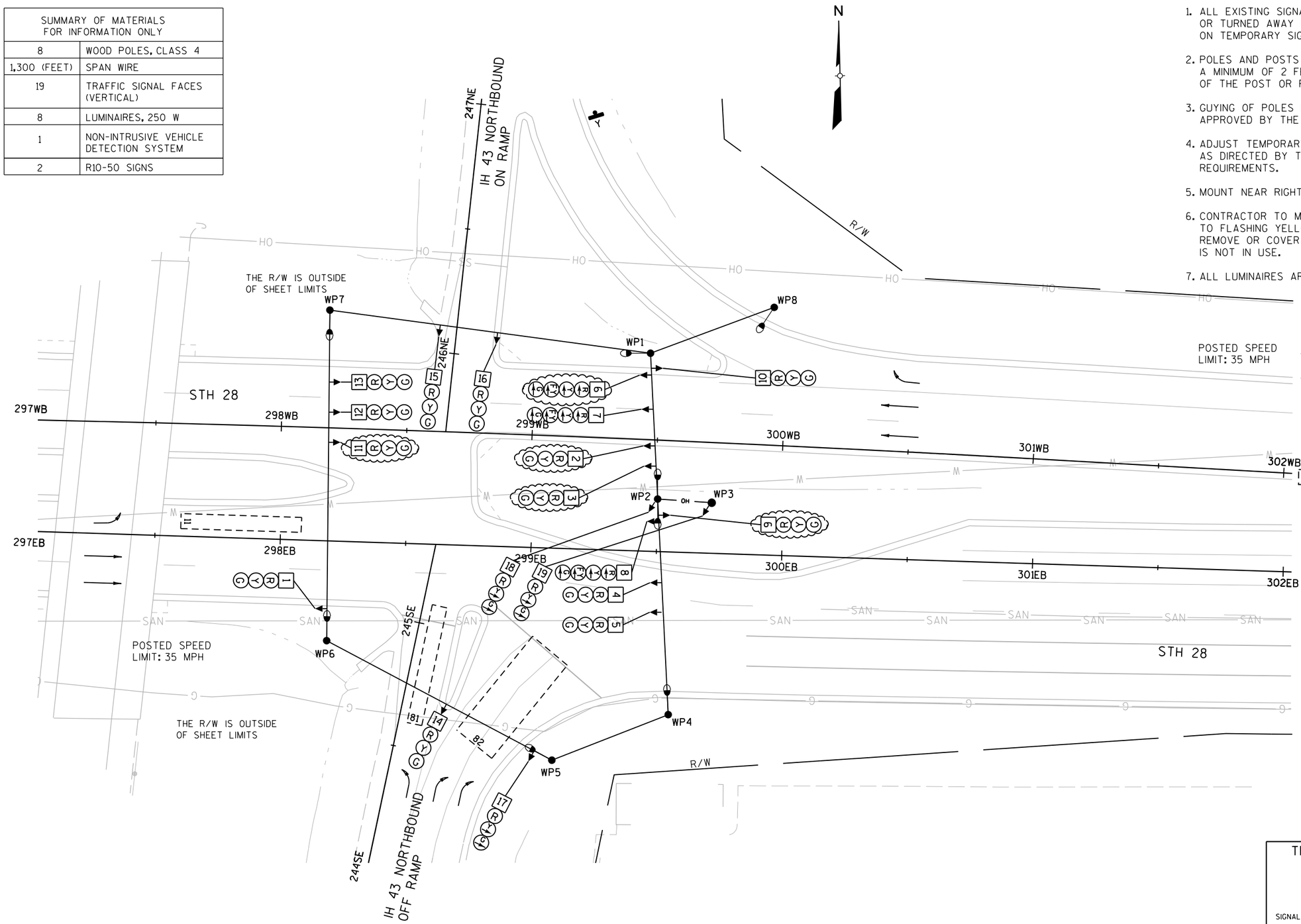
DATE DECEMBER 2014 PAGE NO. 13 OF 13

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - STAGE 3 & POSTCON | SHEET 130 | E

SUMMARY OF MATERIALS FOR INFORMATION ONLY	
8	WOOD POLES, CLASS 4
1,300 (FEET)	SPAN WIRE
19	TRAFFIC SIGNAL FACES (VERTICAL)
8	LUMINAIRES, 250 W
1	NON-INTRUSIVE VEHICLE DETECTION SYSTEM
2	R10-50 SIGNS

CONSTRUCTION NOTES:

1. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
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.
6. CONTRACTOR TO MOUNT R10-50 SIGNS (LEFT TURN YIELD TO FLASHING YELLOW ARROW) NEXT TO HEADS 7 AND 8. REMOVE OR COVER SIGNS WHEN THE FLASHING YELLOW ARROW IS NOT IN USE.
7. ALL LUMINAIRES ARE 250 W HPS UNLESS OTHERWISE NOTED.



LEGEND

POSTED SPEED LIMIT: 35 MPH

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

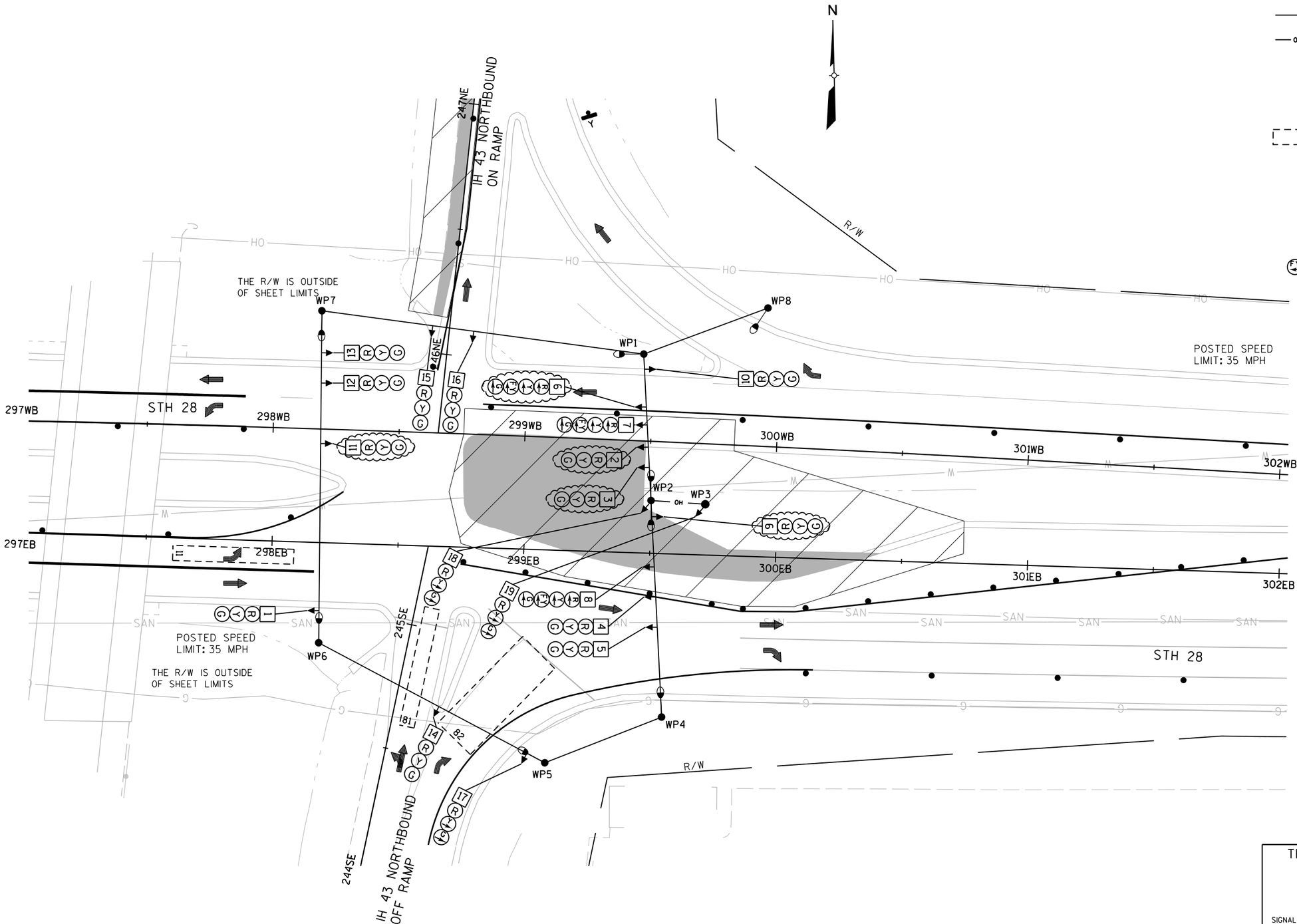
SIGNAL NO. 59-2006

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 1 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION STAGE	SHEET 131	E

FILE NAME: L:\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh1_NB IH43 Ramps.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:39:00 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

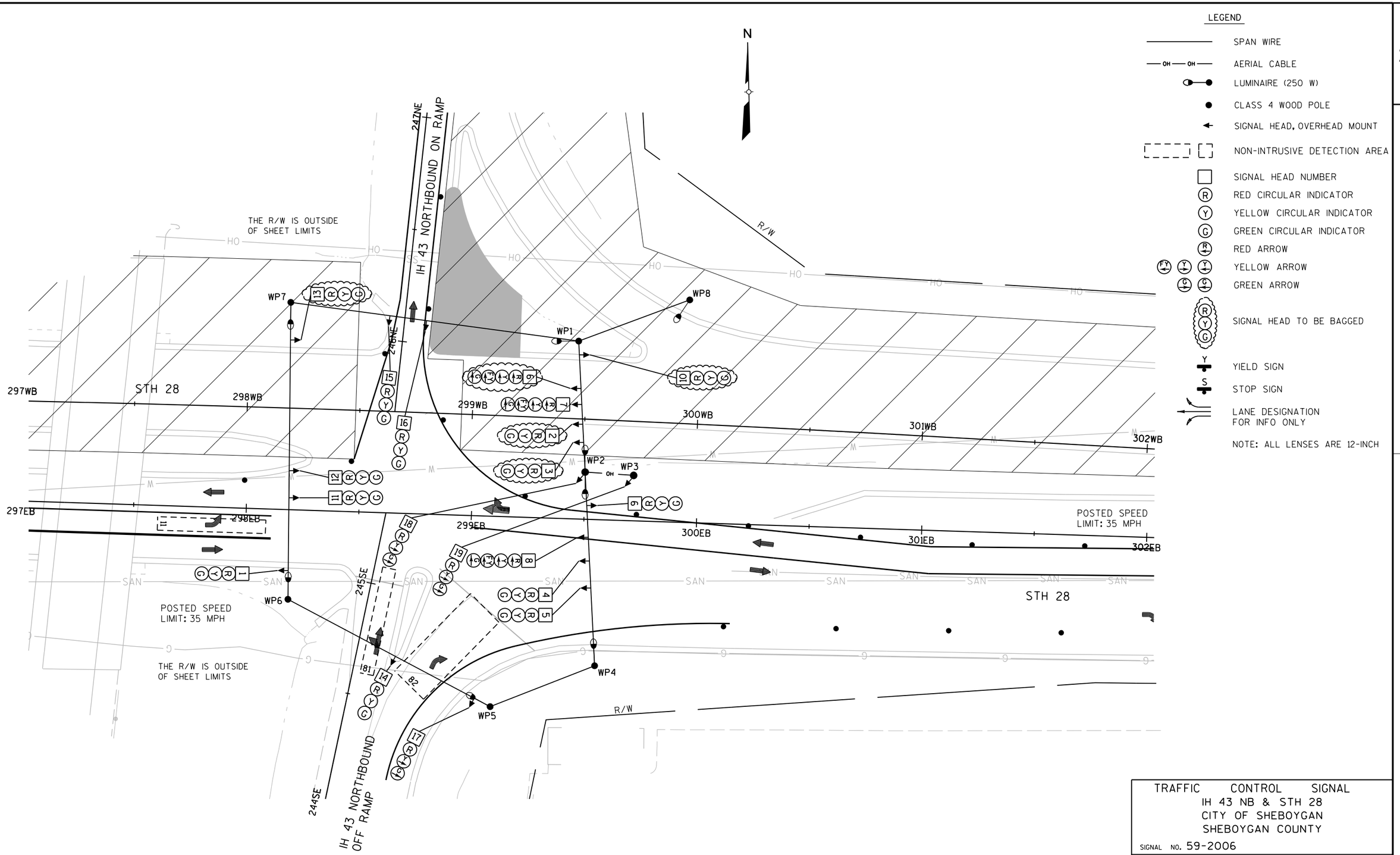
SIGNAL NO. 59-2006

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 2 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 132	E

FILE NAME: L:\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh2_NB IH43 Ramps.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:39:04 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



TRAFFIC CONTROL SIGNAL
IH 43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 59-2006

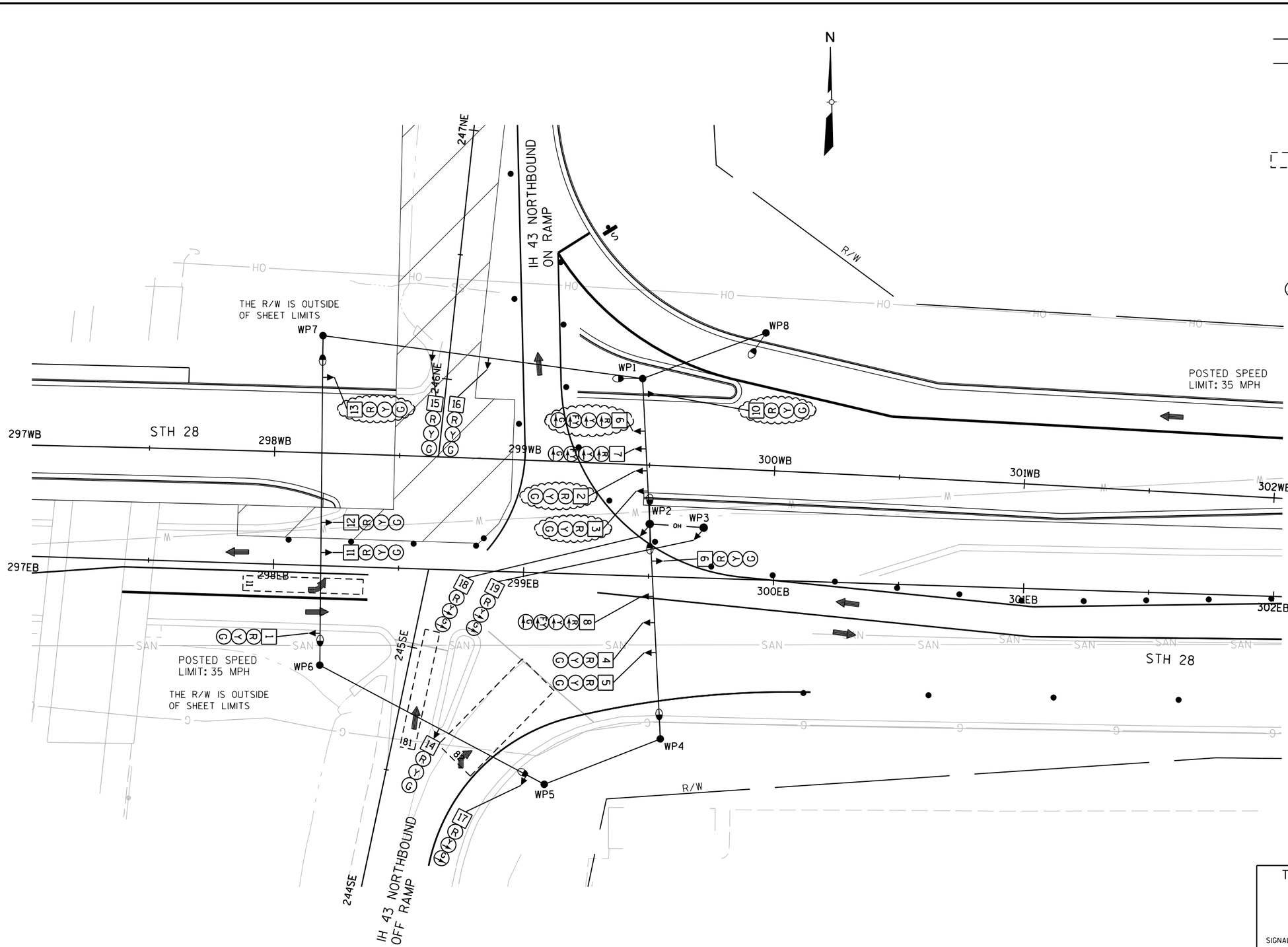
REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 3 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 133	E

FILE NAME: L:\work\projects\60187755\000.CAD\001.Drawings\Design\temp_sig_sh3_NB IH43 Ramps.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:39:08 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY
- NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 59-2006

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 4 OF 13

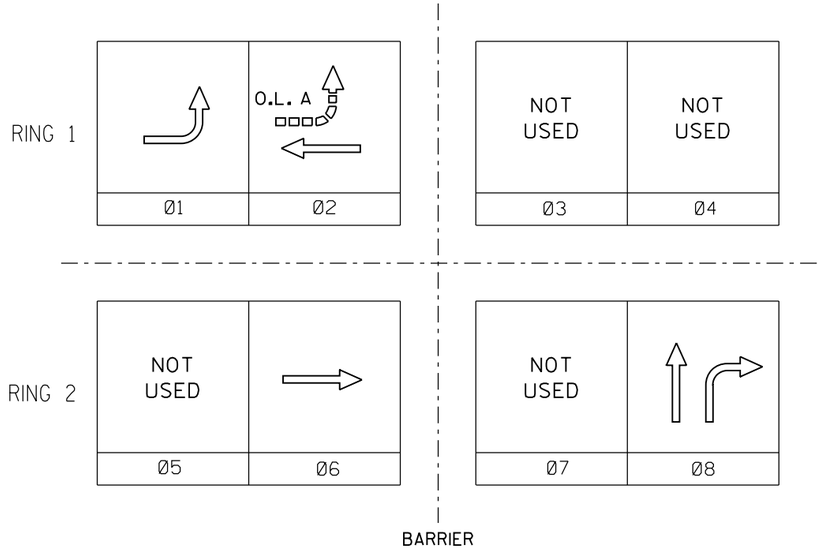
PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1C	SHEET 134	E

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PLOT DATE: 7/29/2015
PLOT TIME: 2:39:12 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

	HEAD NUMBERS	FLASH
Ø1	6, 7, 8	-
Ø2	9, 10, 11, 12, 13	R
Ø3		
Ø4		
Ø5		
Ø6	1, 2, 3, 4, 5	R
Ø7		
Ø8	14, 15, 16, 17, 18, 19	R
OLA	6,7,8	R
OLB		
OLC		
OLD		

O.L. ASSIGNMENTS
1 + 2



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3				
4				
5				
6	X	2	MAX	X
7				
8				X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	6	2,8
2	6	1,8
3		
4		
5		
6	1 OR 2	8
7		
8	-	1,2,6

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11		X			1	1					
81		X			8	8					
82			X		8	8					

IH-43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

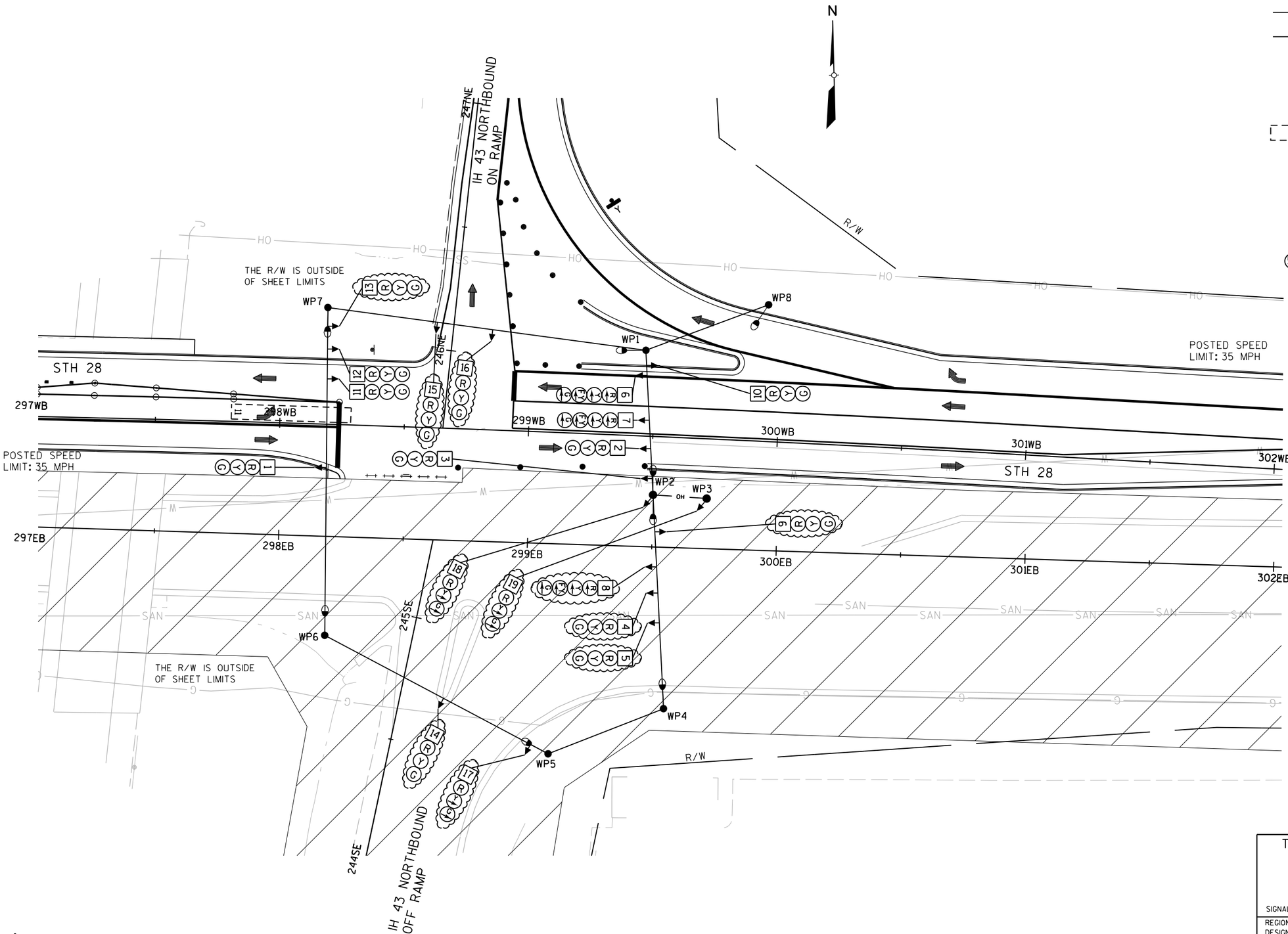
SIGNAL NO. 59-2006

CONTROLLER TYPE: TEMP

DATE DECEMBER 2014 PAGE NO. 5 OF 13

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - PRECON & STAGES 1A,1B,&1C | SHEET 135 | E

2



TRAFFIC CONTROL SIGNAL
IH 43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 59-2006

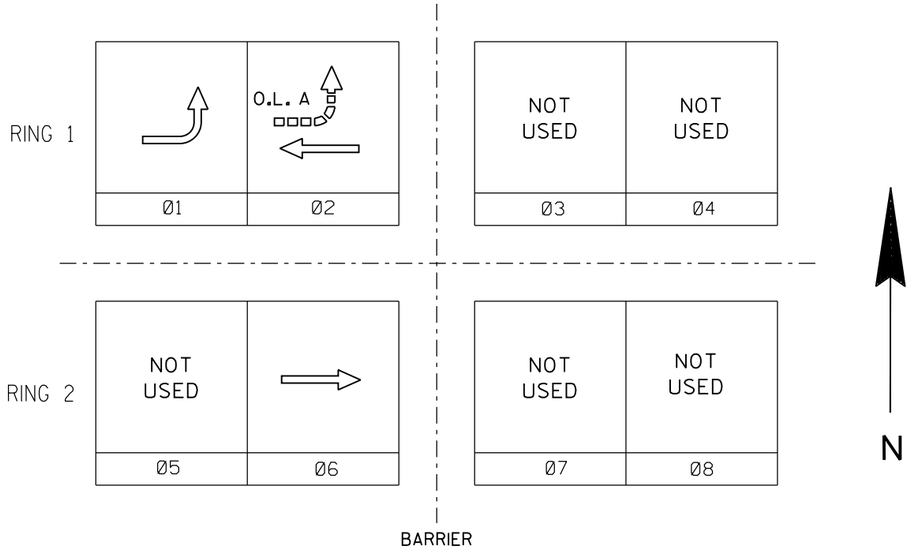
REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A	SHEET 136	E

FILE NAME: L:\work\projects\60187755\000.CAD\001_Drawings\Design\temp_sig_sh6_NB IH43 Ramps.dgn
BATCH PRINT SHEET 32 OF 63
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PLOT DATE: 7/29/2015
PLOT TIME: 2:39:19 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	6, 7, 8	-
Ø2	9, 10, 11, 12, 13	R
Ø3		
Ø4		
Ø5		
Ø6	1, 2, 3, 4, 5	R
Ø7		
Ø8	14, 15, 16, 17, 18, 19	R
OLA	6,7,8	R ←
OLB		
OLC		
OLD		

O.L. ASSIGNMENTS
1 + 2



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3				
4				
5				
6	X	2	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	6	2
2	6	2
3		
4		
5		
6	1 OR 2	-
7		
8		

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11		X			1	1					

IH-43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 59-2006

CONTROLLER TYPE: TEMP

DATE DECEMBER 2014 PAGE NO. 7 OF 13

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - STAGE 2A | SHEET 137 | E

2

N

LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

IH 43 NORTHBOUND ON RAMP

247NE

246NE

245SE

IH 43 NORTHBOUND OFF RAMP

R/W

THE R/W IS OUTSIDE OF SHEET LIMITS

THE R/W IS OUTSIDE OF SHEET LIMITS

STH 28

STH 28

POSTED SPEED LIMIT: 35 MPH

POSTED SPEED LIMIT: 35 MPH

297WB 298WB 299WB 300WB 301WB 302WB

297EB 298EB 299EB 300EB 301EB 302EB

WP1 WP2 WP3 WP4 WP5 WP6 WP7 WP8

HO SAN M G

TRAFFIC CONTROL SIGNAL
IH 43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 59-2006

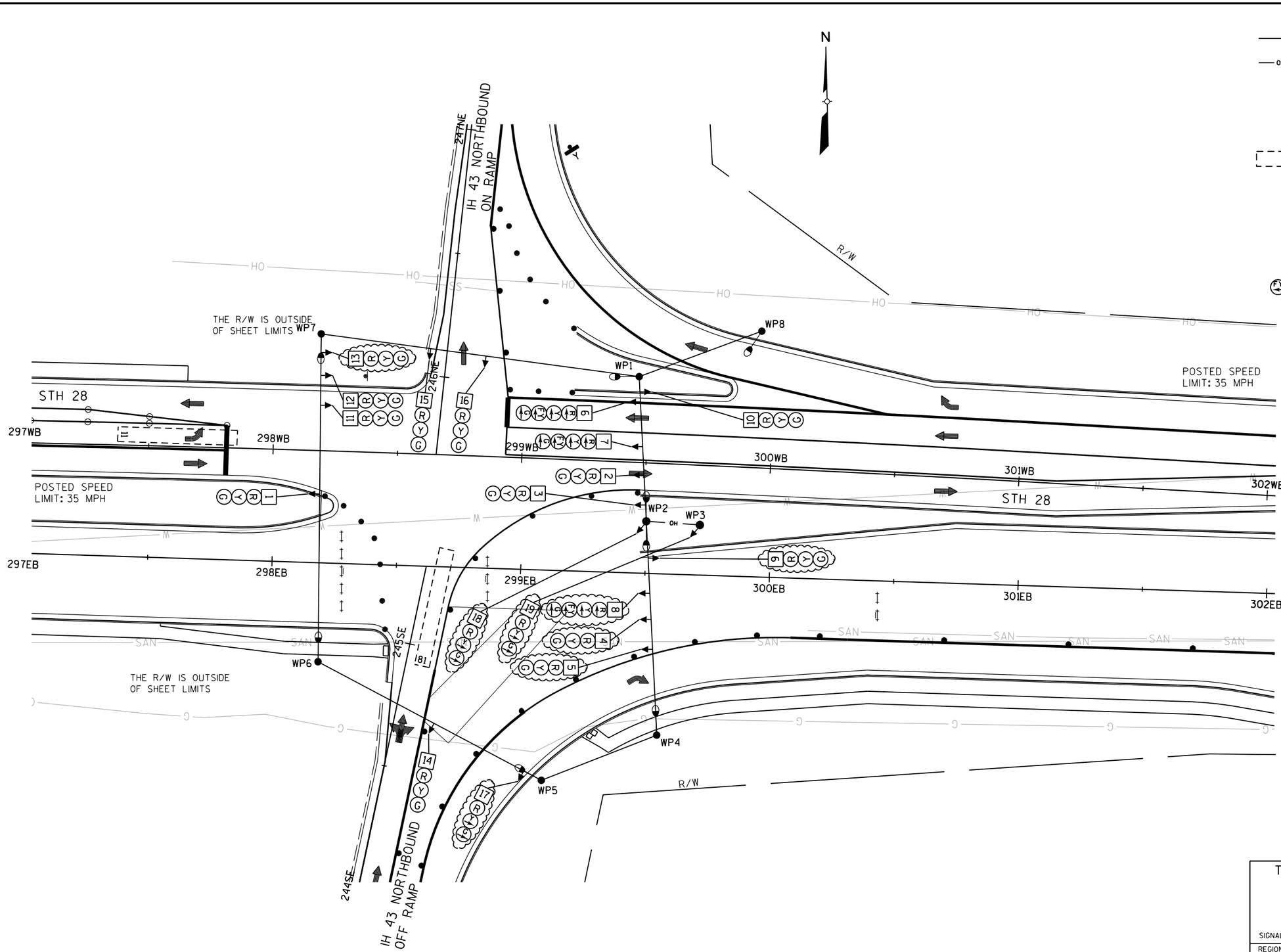
REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 8 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2B	SHEET 138	E

FILE NAME: L:\work\projects\60187755\000.CAD\001.Drawings\Design\temp_sig_sh8_NB IH43 Ramps.dgn
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PLOT TIME: 2:39:26 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY
- NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 59-2006

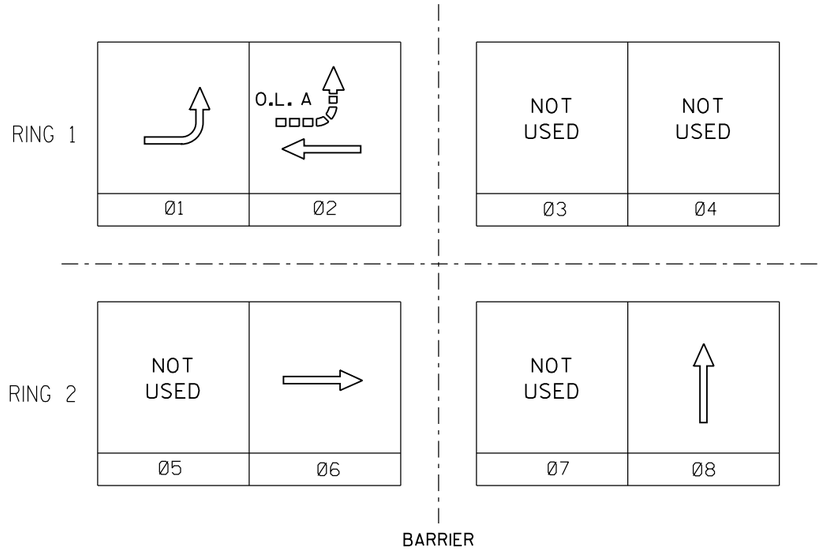
REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2C	SHEET 139	E

FILE NAME: L:\work\projects\60187755\000.CAD\001_Drawings\Design\temp_sig_sh9_NB IH43 Ramps.dgn
BATCH PRINT SHEET 35 OF 63
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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	6, 7, 8	-
Ø2	9, 10, 11, 12, 13	R
Ø3		
Ø4		
Ø5		
Ø6	1, 2, 3, 4, 5	R
Ø7		
Ø8	14, 15, 16, 17, 18, 19	R
OLA	6,7,8	R ←
OLB		
OLC		
OLD		

O.L. ASSIGNMENTS
1 + 2



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3				
4				
5				
6	X	2	MAX	X
7				
8				X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	6	2,8
2	6	1,8
3		
4		
5		
6	1 OR 2	8
7		
8	-	1,2,6

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11		X			1	1					
81		X			8	8					
82		X			8	8					

IH-43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 59-2006

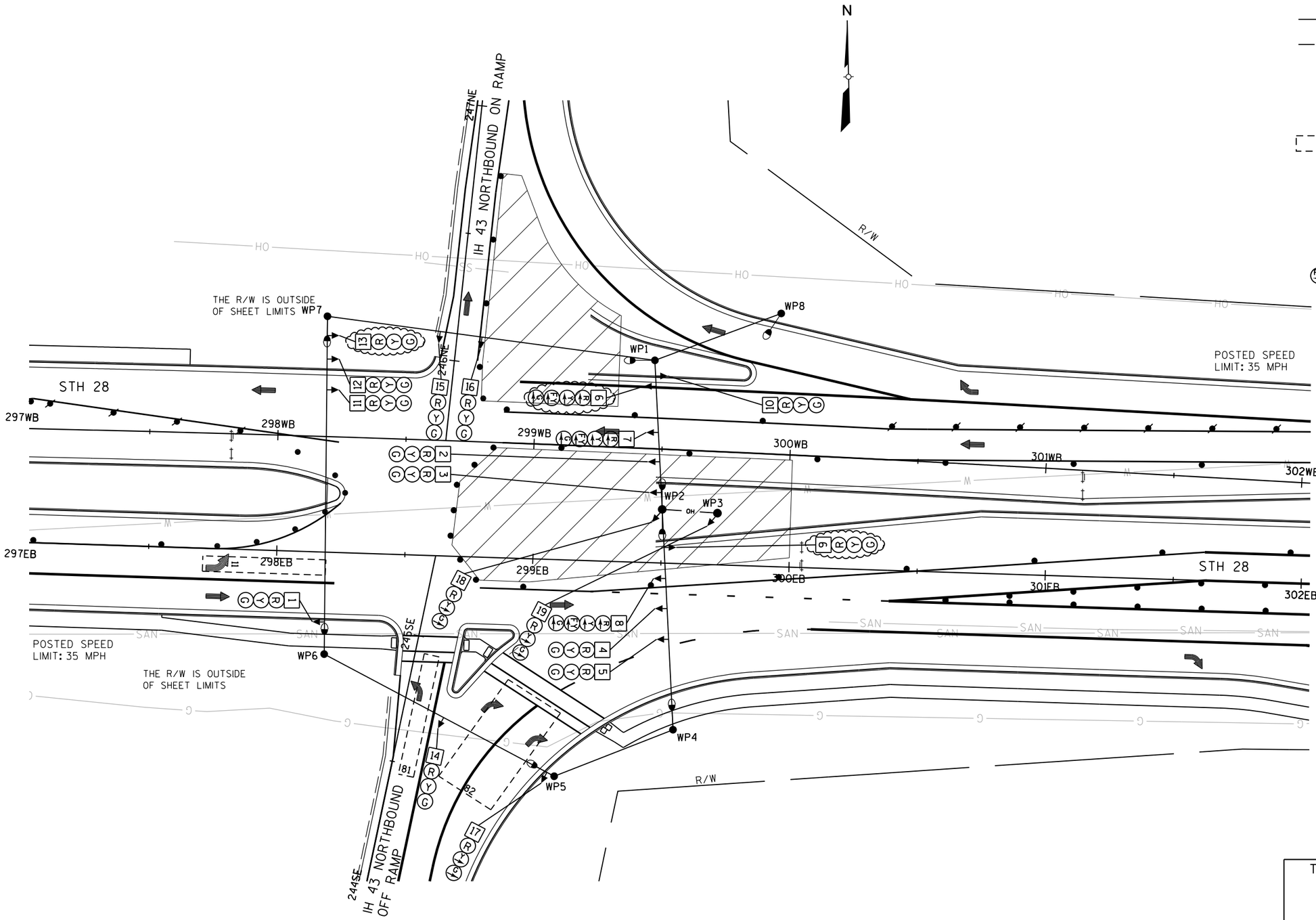
CONTROLLER TYPE: TEMP

DATE DECEMBER 2014

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - STAGES 2B & 2C | SHEET 140 | E

FILE NAME: L:\work\projects\60187755\000_CAD\001_Drawings\Design\Temp_sequence_sh10_NB 1H43 Ramps (2B 2C).dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:39:33 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY
- NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

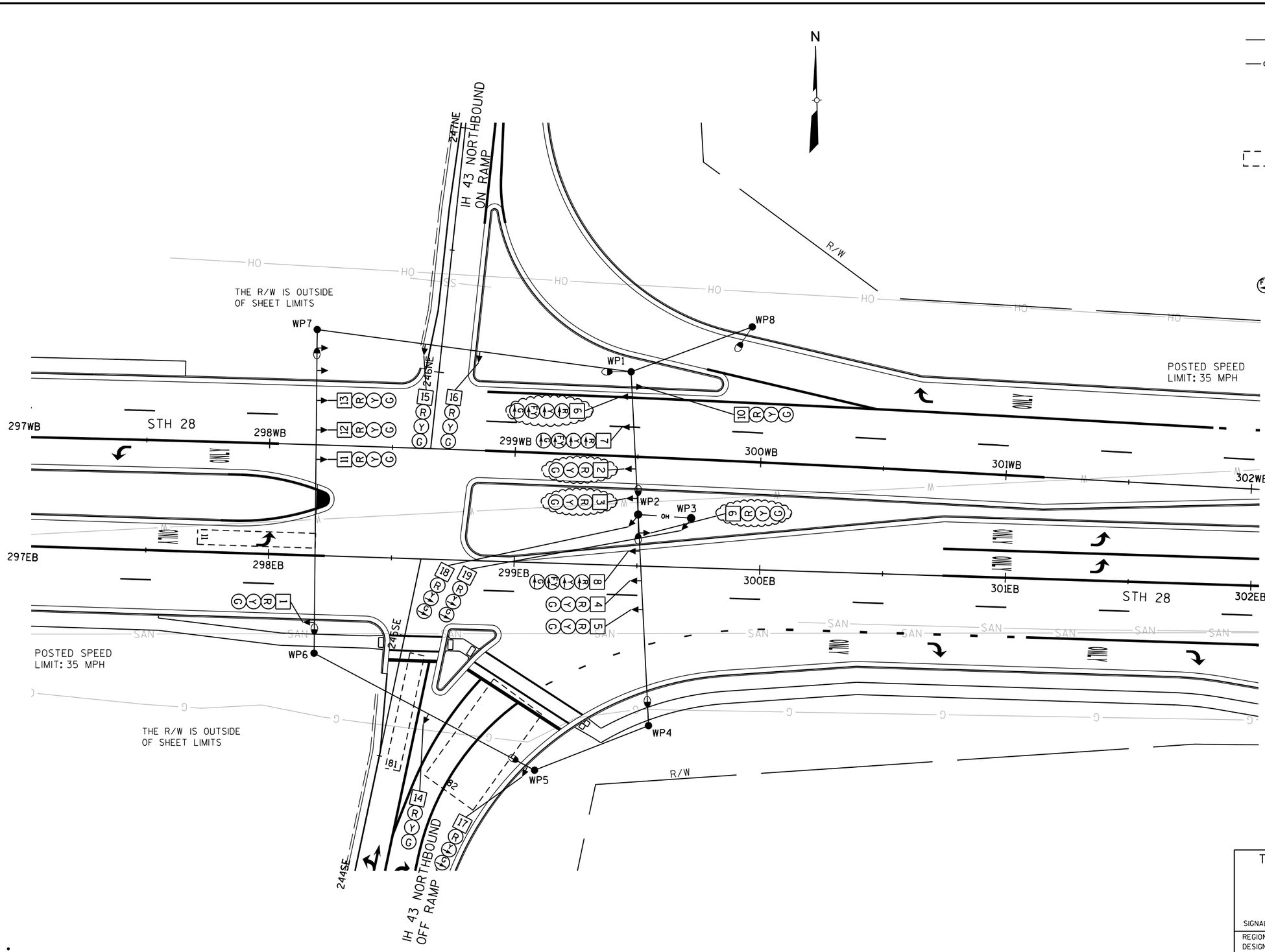
SIGNAL NO. 59-2006

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

PAGE 11 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 141	E

FILE NAME: L:\work\projects\60187755\000.CAD\001_Drawings\Design\temp_sig_sh11_NB IH43 Ramps.dgn
BATCH PRINT SHEET 37 OF 63
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PLOT DATE: 7/29/2015
PLOT TIME: 2:39:37 PM
PLOT SCALE: 1:40



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY
- NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
IH 43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 59-2006

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

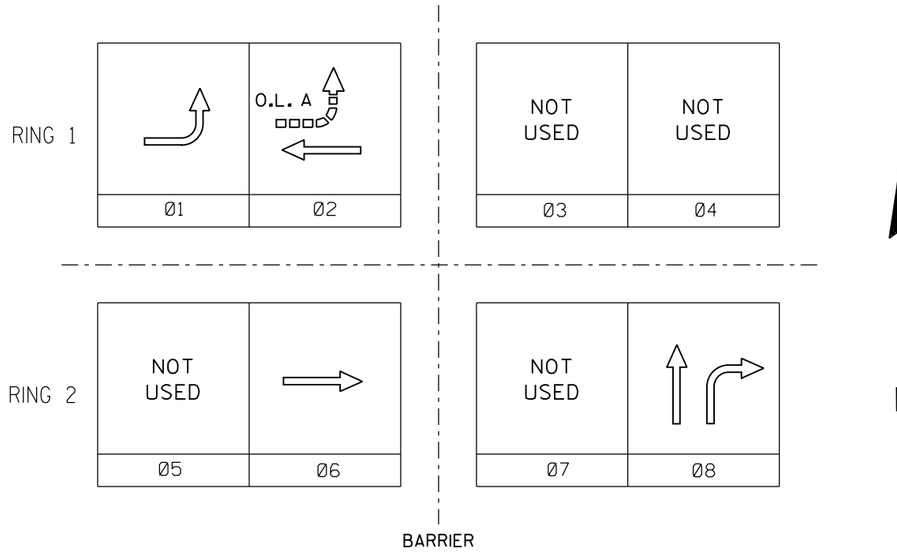
PAGE 12 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - POST CONSTRUCTION	SHEET 142	E

FILE NAME: L:\work\projects\60187755\000.CAD\001_Drawings\Design\temp_sig_sh12_NB IH43 Ramps.dgn
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PLOT TIME: 2:39:40 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	6, 7, 8	-
Ø2	9, 10, 11, 12, 13	R
Ø3		
Ø4		
Ø5		
Ø6	1, 2, 3, 4, 5	R
Ø7		
Ø8	14, 15, 16, 17, 18, 19	R
OLA	6,7,8	R
OLB		
OLC		
OLD		

O.L. ASSIGNMENTS
1 + 2



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3				
4				
5				
6	X	2	MAX	X
7				
8				X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	6	2,8
2	6	1,8
3		
4		
5		
6	1 OR 2	8
7		
8	-	1,2,6

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11		X			1	1					
81		X			8	8					
82		X			8	8					

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

IH-43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 59-2006

CONTROLLER TYPE: TEMP

DATE DECEMBER 2014

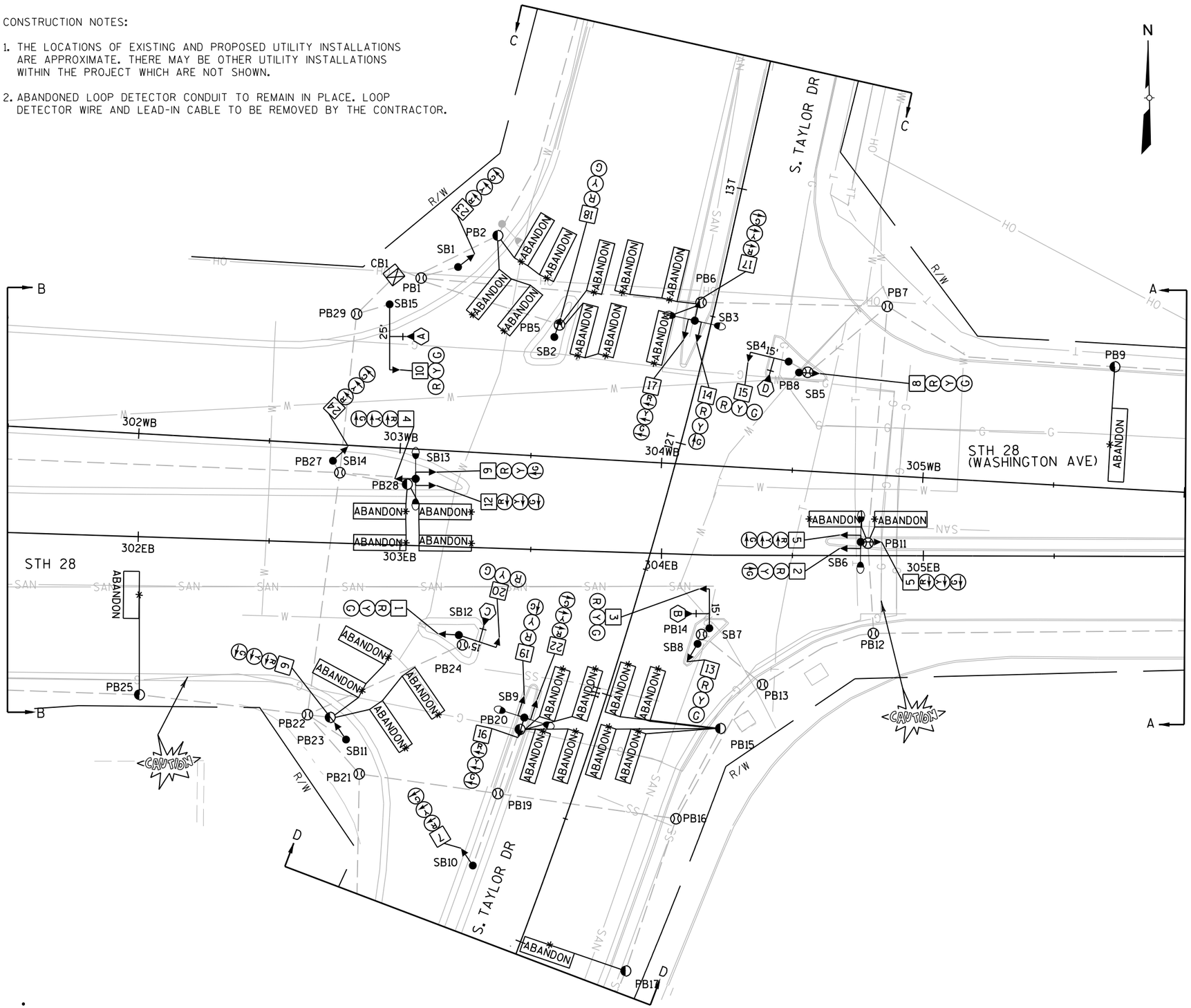
PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - STAGE 3 & POSTCON | SHEET 143 | E

FILE NAME: L:\work\projects\60187755\000_CAD\001_Drawings\Design\Temp_sequence_sh13_NB IH43 Ramps (3 Post).dgn
BATCH PRINT SHEET 39 OF 63
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PLOT TIME: 2:39:43 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.

2. ABANDONED LOOP DETECTOR CONDUIT TO REMAIN IN PLACE. LOOP DETECTOR WIRE AND LEAD-IN CABLE TO BE REMOVED BY THE CONTRACTOR.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- SIGNAL HEAD, DUAL MOUNT TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- LUMINAIRE LED-C (UNLESS OTHERWISE NOTED), TRAFFIC POLE, TRANSFORMER BASE
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- EVP DESIGNATOR
- EVP DETECTOR HEAD

NOTE: GRAYSHADE REPRESENTS EXISTING
BOLD REPRESENTS ITEMS TO BE REMOVED

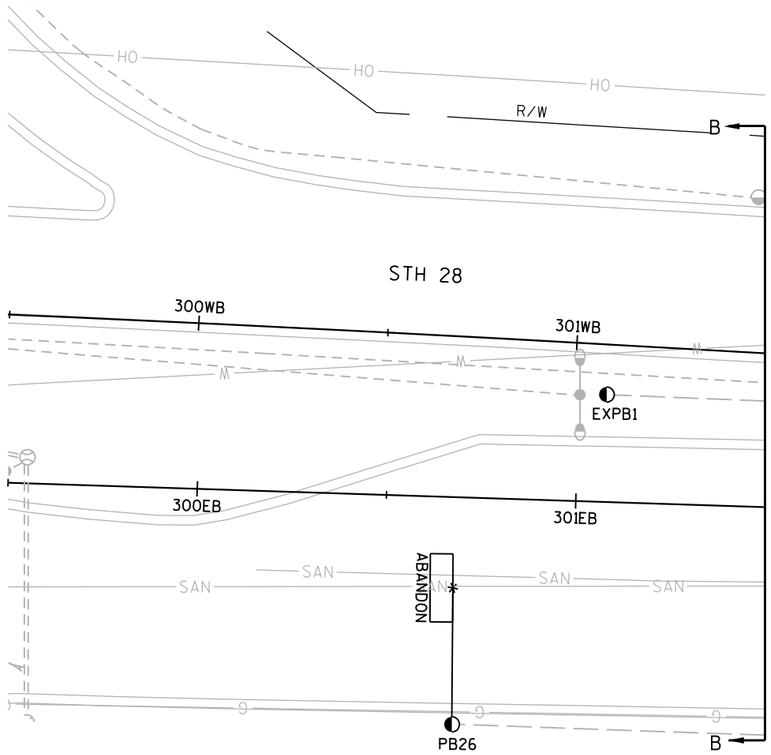
TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PAGE 1 OF 3

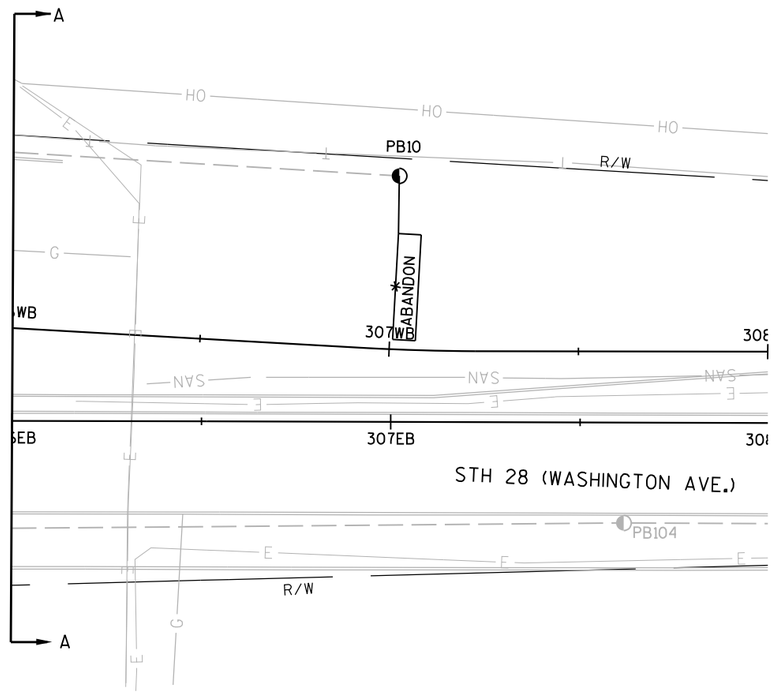
PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 144	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\removal_Taylor Dr_shl.dgn PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\AE_PDF_11 x 17 Traffic Signals.plt PLOT DATE: 7/29/2015 PLOT SCALE: 1:40
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WISDOT/CADDS SHEET 42

2



THE R/W IS OUTSIDE
OF SHEET LIMITS



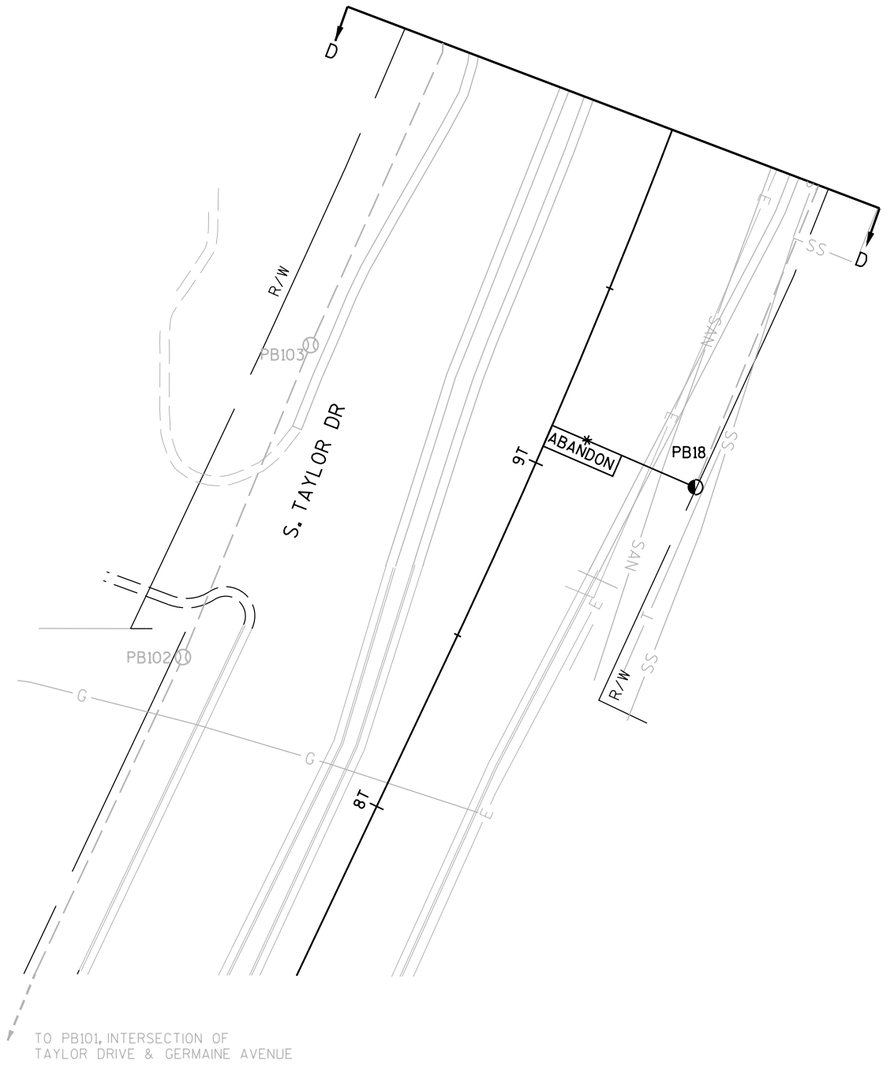
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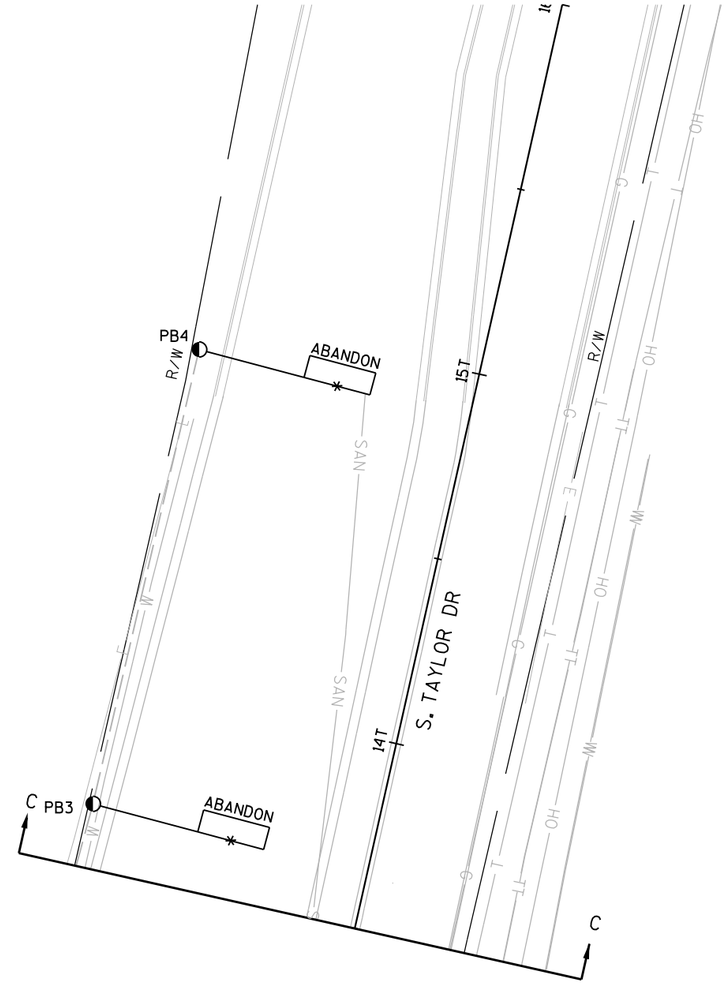
TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 145 E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\removal_Taylor Dr_sh2.dgn PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\AE_PDF_11 x 17 Traffic Signals.plt PLOT DATE: 7/29/2015 PLOT SCALE: 1:40
BATCH PRINT SHEET 41 OF 63 PEN TABLE: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT_Traffic.tbl PLOT TIME: 2:39:52 PM
WISDOT/CADDS SHEET 42

2





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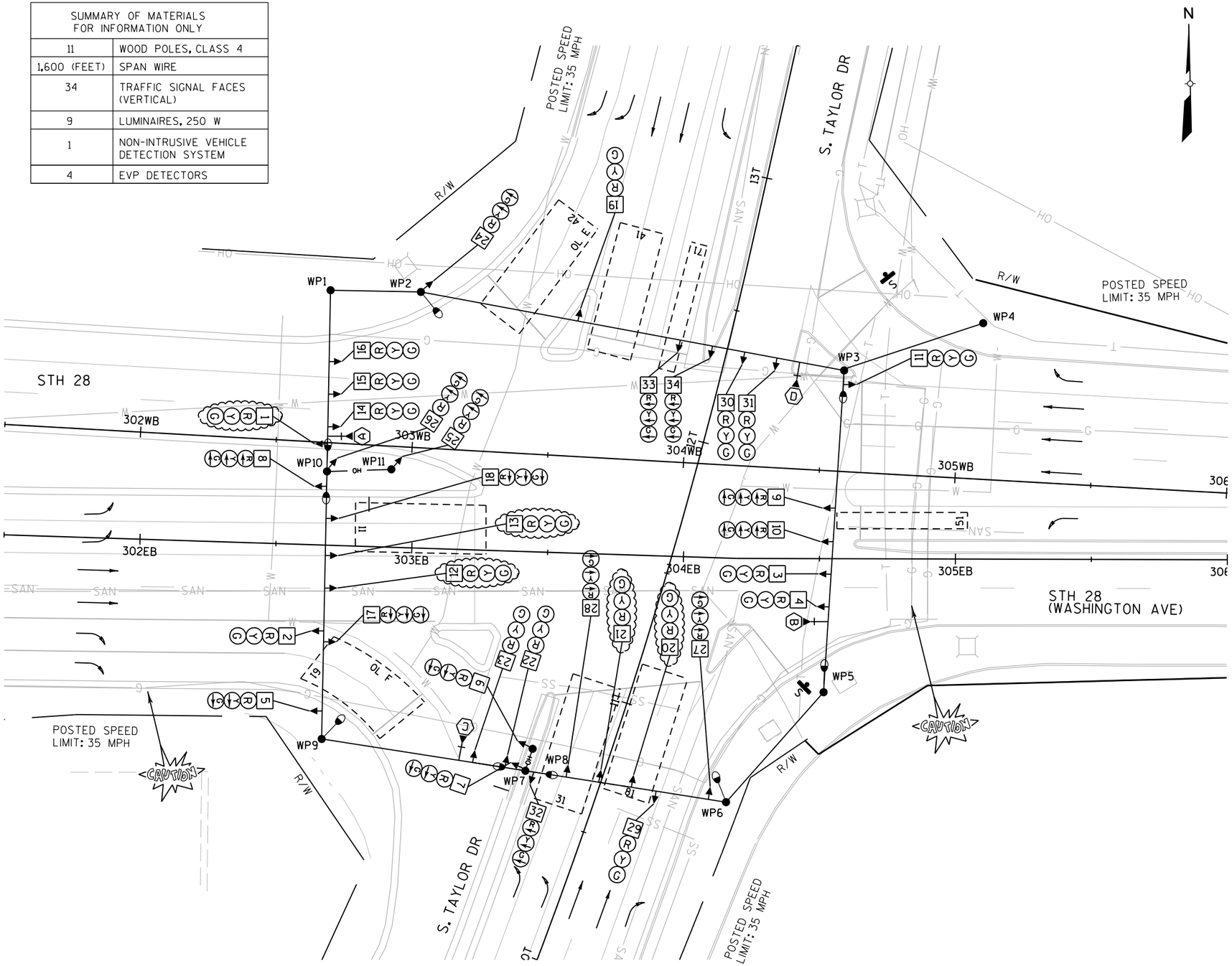
TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PAGE 3 OF 3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 146	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\removal_Taylor Dr_sh3.dgn PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\AE_PDF_11 x 17 Traffic Signals.plt PLOT DATE: 7/29/2015 PLOT SCALE: 1:40
BATCH PRINT SHEET 42 OF 63 PEN TABLE: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\MS_Printing\Pen_Tables\ET_WisDOT_Traffic.tbl PLOT TIME: 2:39:56 PM
WISDOT/CADDS SHEET 42

SUMMARY OF MATERIALS FOR INFORMATION ONLY	
11	WOOD POLES, CLASS 4
1,600 (FEET)	SPAN WIRE
34	TRAFFIC SIGNAL FACES (VERTICAL)
9	LUMINAIRES, 250 W
1	NON-INTRUSIVE VEHICLE DETECTION SYSTEM
4	EVP DETECTORS



CONSTRUCTION NOTES:

1. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
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.
6. ALL LUMINAIRES ARE 250 W HPS UNLESS OTHERWISE NOTED.

LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- (X) EVP DESIGNATOR
- EVP DETECTOR HEAD
- Y YIELD SIGN
- S STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PAGE 1 OF 13

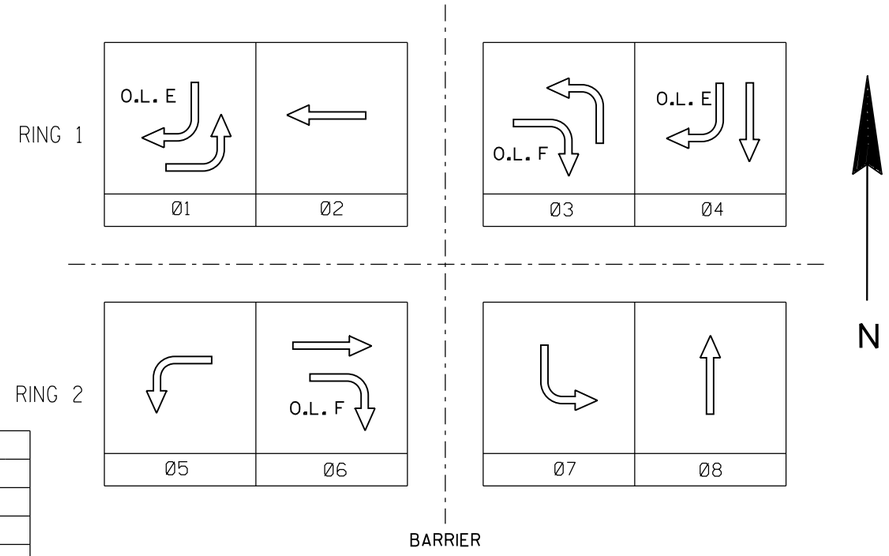
PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - PRECONSTRUCTION STAGE	SHEET 147	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh1_Taylor.dgn
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PLOT DATE: 7/29/2015
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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

	HEAD NUMBERS	FLASH
Ø1	8,9,10	R ←
Ø2	11,12,13,14,15,16	R
Ø3	32,33,34	R ←
Ø4	19,20,21,22,23	R
Ø5	17,18	R ←
Ø6	1,2,3,4	R
Ø7	27,28	R ←
Ø8	29,30,31	R
OLE	24,25,26	R
OLF	5,6,7	R

O.L. ASSIGNMENTS
1+4
3+6



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3		8		X
4		8		X
5		2		X
6	X	2	MAX	X
7		4		X
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	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	1,2,5,6,8

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	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					
31		X			3	3					
41		X			4	4					
42		X			4	4		X			
51		X			5	5					
61		X			6	6		X			
71		X			7	7					
81		X			8	8					

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE DETECTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	1+6	4+7	3+8

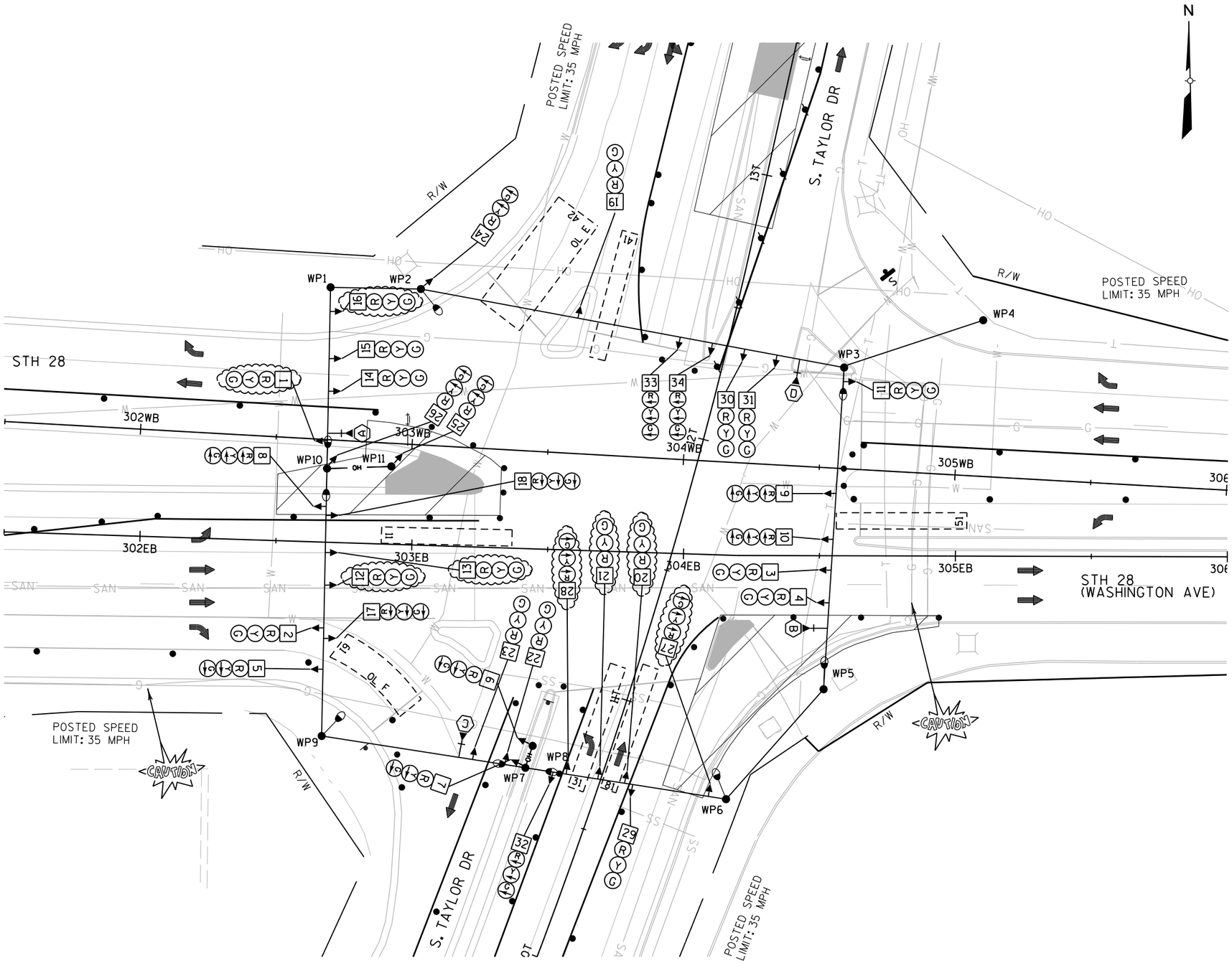
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

CONTROLLER TYPE: TEMP

DATE DECEMBER 2014 PAGE NO. 2 OF 13

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - PRECONSTRUCTION STAGE | SHEET 148 | E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\Temp_sequence_sh2_Taylor.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:40:02 PM
PLOT SCALE: 1:40
BATCH PRINT SHEET 44 OF 63



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

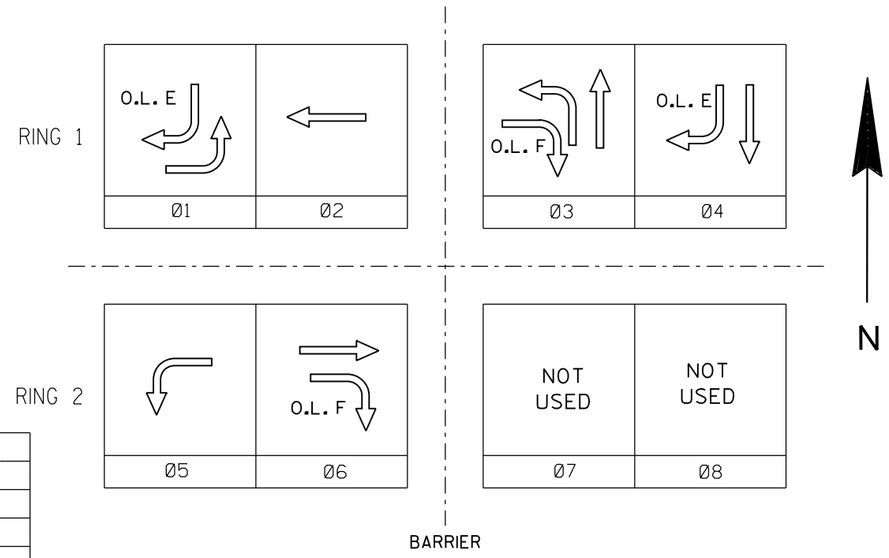
TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1A	SHEET 149	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh3_Taylor.dgn
BATCH PRINT SHEET 45 OF 63
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PLOT DATE: 7/29/2015
PLOT TIME: 2:40:06 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	8,9,10	R
Ø2	11,12,13,14,15,16	R
Ø3	29,30,31,32,33,34	R
Ø4	19,20,21,22,23	R
Ø5	17,18	R
Ø6	1,2,3,4	R
Ø7	27,28	R
Ø8		-
OLE	24,25,26	R
OLF	5,6,7	R

O.L. ASSIGNMENTS
1+4
3+6



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3		8		X
4		8		X
5		2		X
6	X	2	MAX	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2,3,4
2	5 OR 6	1,3,4
3		1,2,4,5,6
4		1,2,3,5,6
5	1 OR 2	3,4,6
6	1 OR 2	3,4,5
7		
8		

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	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					
31		X			3	3					
41		X			4	4					
42		X			4	4		X			
51		X			5	5					
61		X			6	6		X			
81		X			8	8					

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE DETECTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	1+6	4	3+8

STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

CONTROLLER TYPE: TEMP

DATE DECEMBER 2014 PAGE NO. 4 OF 13

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - STAGE 1A | SHEET 150 | E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\Temp_sequence_sh4_Taylor #1.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:40:09 PM
PLOT SCALE: 1:40
BATCH PRINT SHEET 46 OF 63
WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

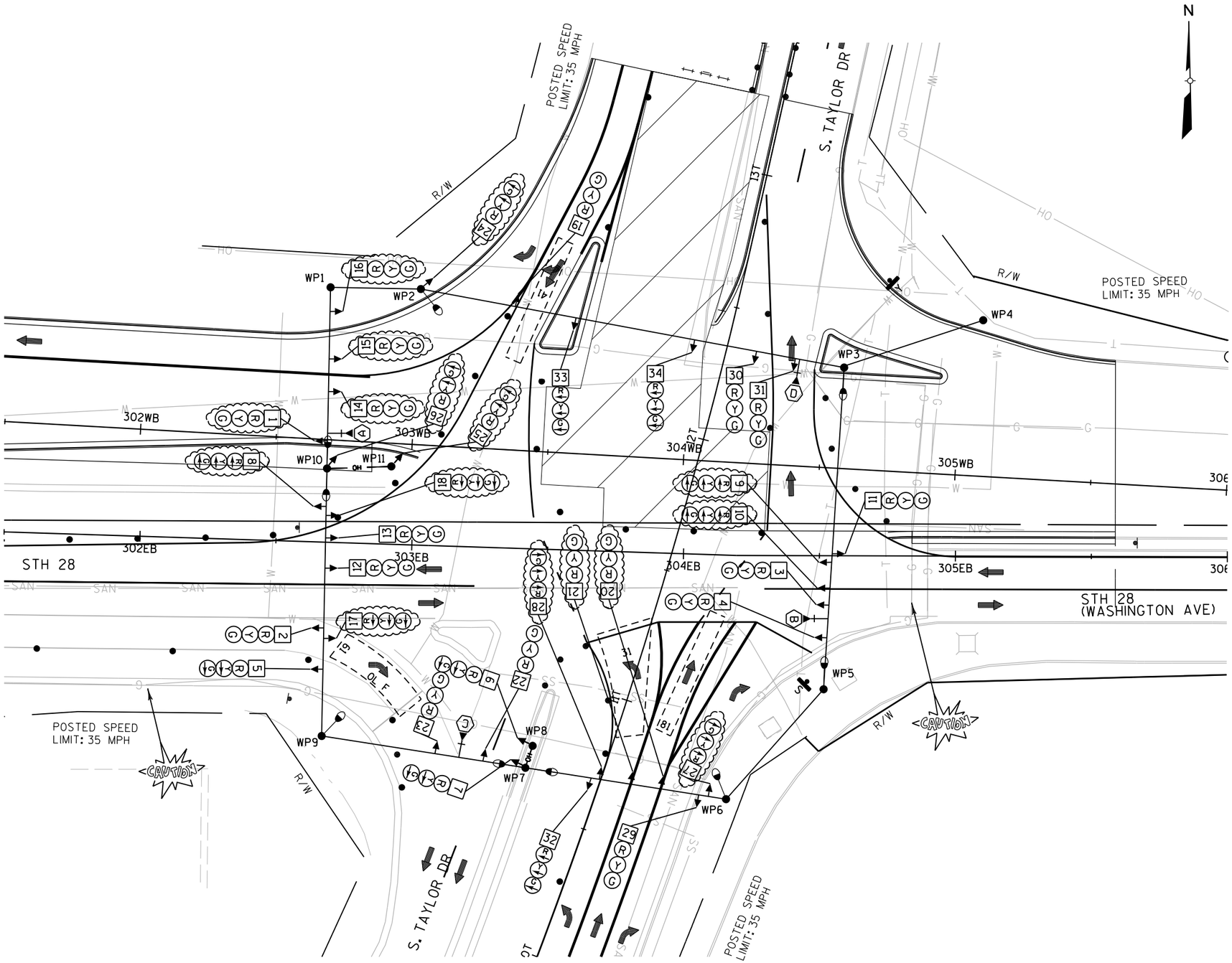
NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PAGE 5 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1B	SHEET 151	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh5_Taylor.dgn
BATCH PRINT SHEET 47 OF 63
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\AE_PDF_11 x 17 Traffic Signals.plt
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PLOT DATE: 7/29/2015
PLOT TIME: 2:40:13 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

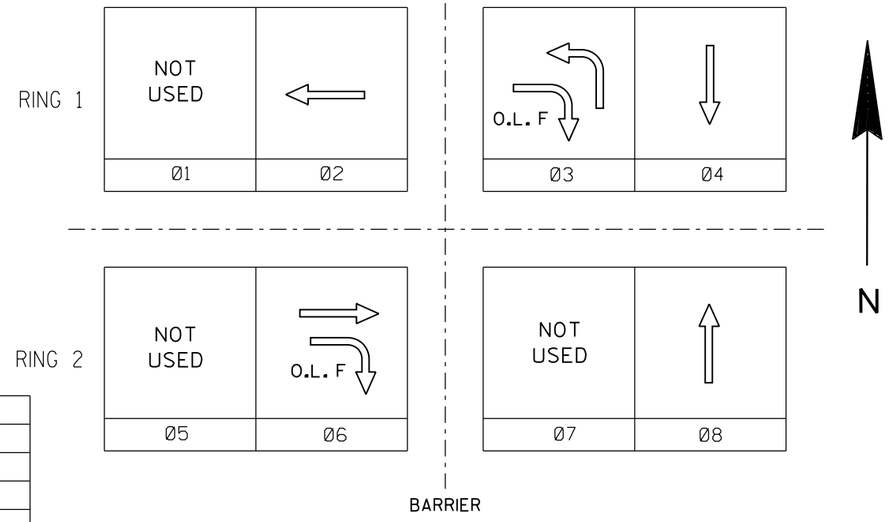
TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 1C	SHEET 152	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh6_Taylor.dgn
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PLOT TIME: 2:40:17 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	8,9,10	R
Ø2	11,12,13,14,15,16	R
Ø3	32,33,34	R
Ø4	19,20,21,22,23	R
Ø5	17,18	R
Ø6	1,2,3,4	R
Ø7	27,28	R
Ø8	29,30,31	R
OLE	24,25,26	R
OLF	5,6,7	R

O.L. ASSIGNMENTS
1+4
3+6



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MAX	X
3		8		X
4		8		X
5				
6	X	2	MAX	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	6	3,4,8
3	8	2,4,6
4	8	2,3,6
5		
6	2	3,4,8
7		
8	3 OR 4	2,6

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
31		X			3	3					
41		X			4	4					
61		X			6	6		X			
81		X			8	8					

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

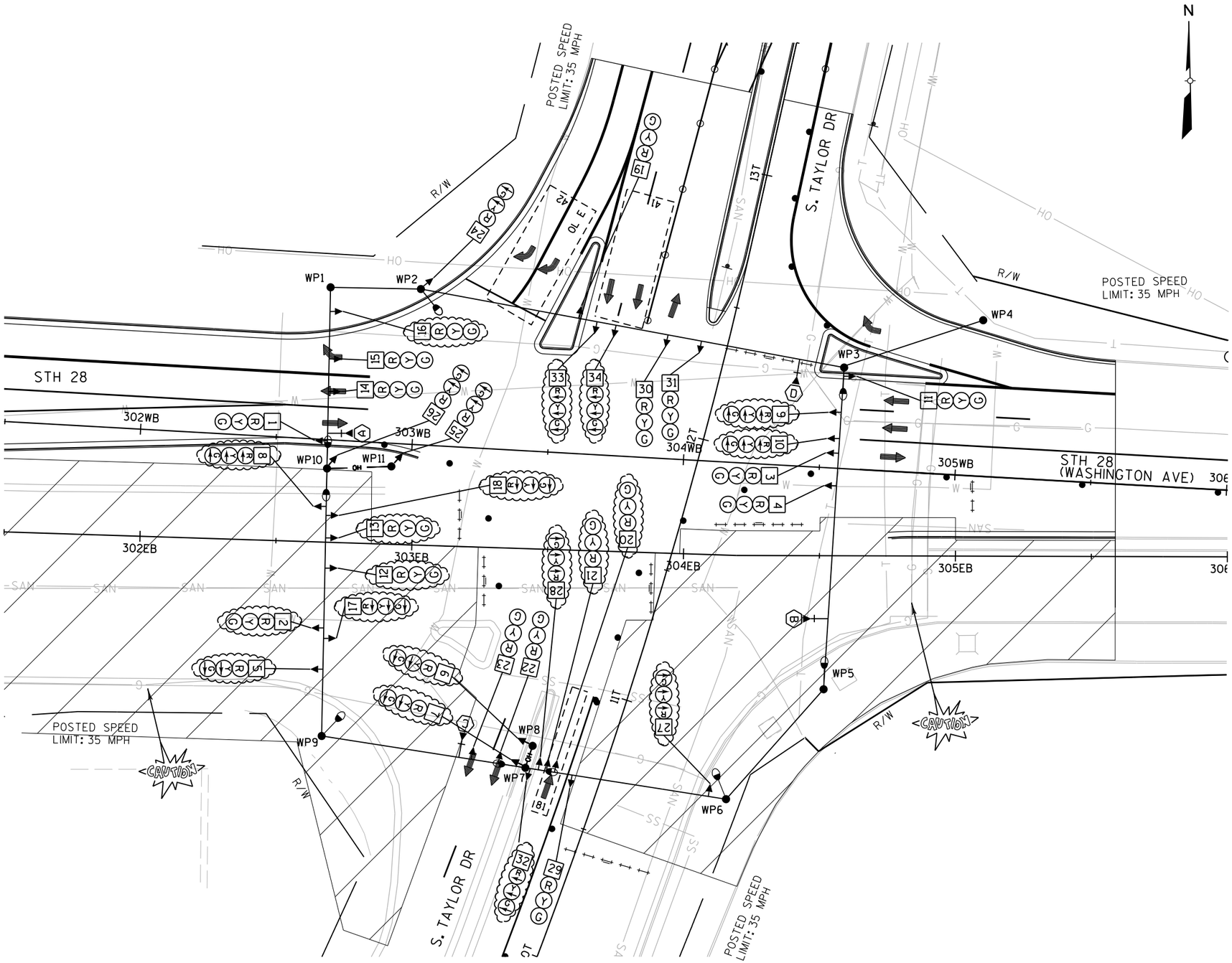
EMERGENCY VEHICLE DETECTOR	A, B	C	D
MOVEMENT			
PHASE	2+6	4+8	3+8

STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

CONTROLLER TYPE: TEMP

DATE DECEMBER 2014

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000.CAD\001.Drawings\Design\Temp_sequence_sh7_Taylor.dgn
BATCH PRINT SHEET 49 OF 63
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PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

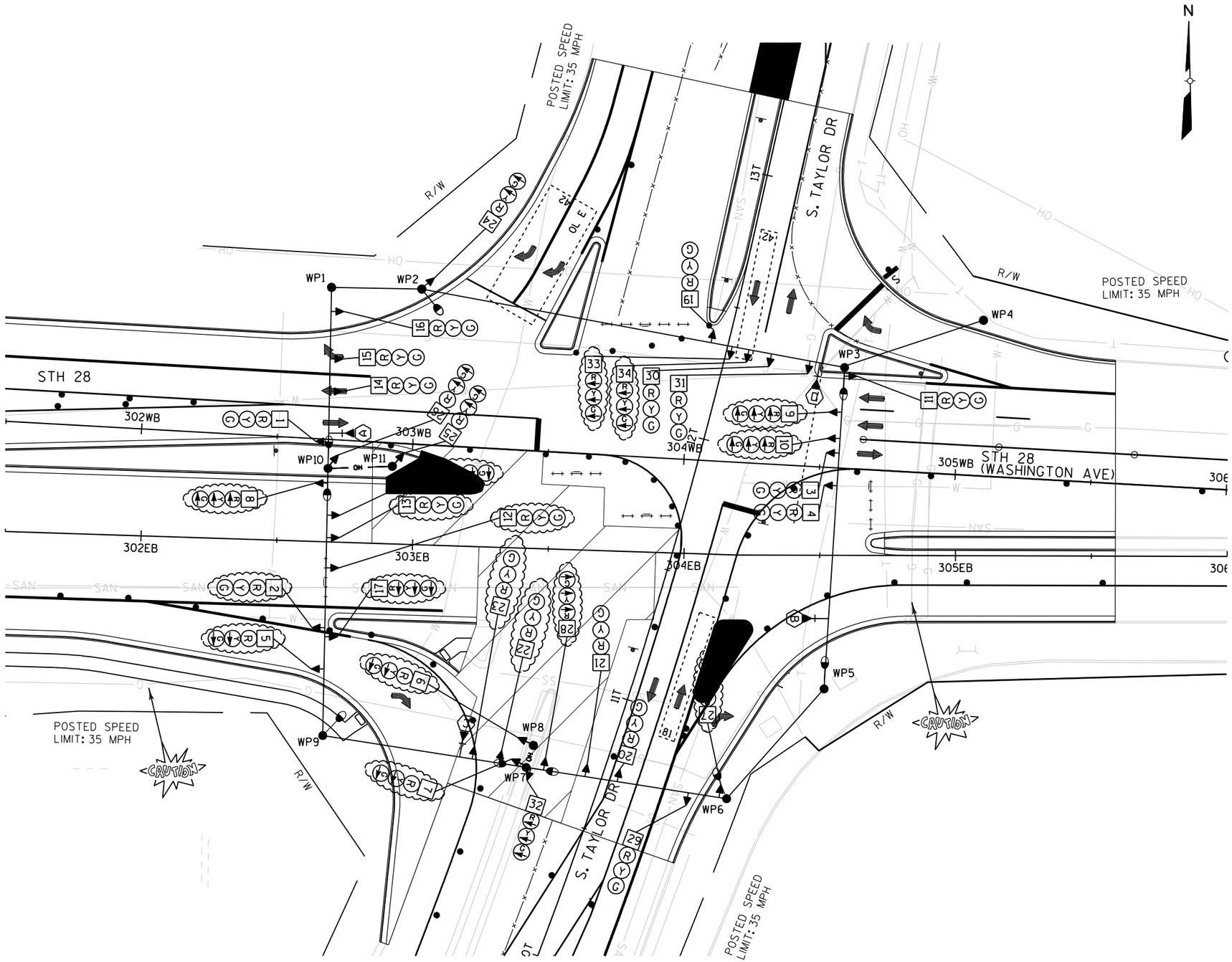
- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2A & 2B	SHEET 154	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000.CAD\001.Drawings\Design\temp_sig_sh8_Taylor.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:40:24 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

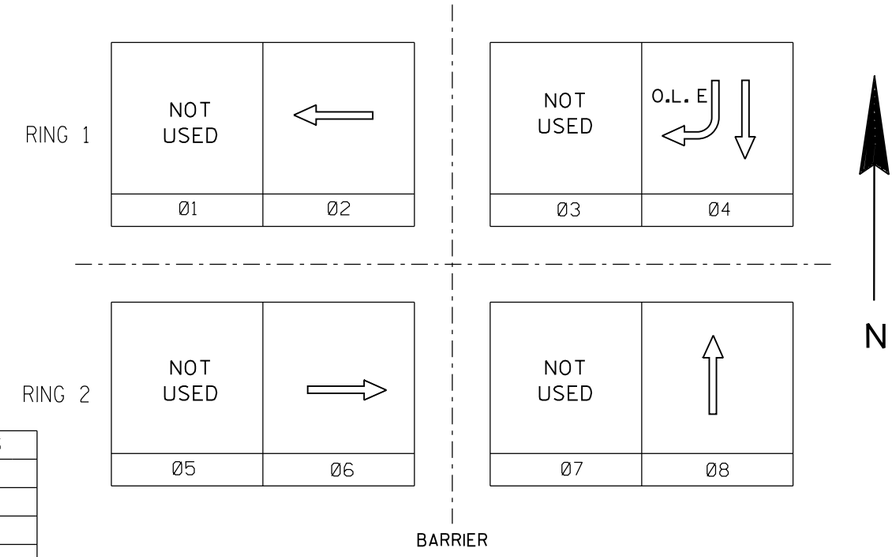
NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2C	SHEET 155	E

FILE NAME: L:\work\106730\Trans\STH 28\CADD\Sheets\signals\temp_sig_sh9_Taylor.dgn
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PLOT DATE: 11/18/2015
PLOT TIME: 10:43:13 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH	
Ø1	8,9,10	R	
Ø2	11,12,13,14,15,16	R	
Ø3	32,33,34	R	
Ø4	19,20,21,22,23	R	
Ø5	17,18	R	
Ø6	1,2,3,4	R	
Ø7	27,28	R	
Ø8	29,30,31	R	O.L. ASSIGNMENTS
OLE	24,25,26	R	1+4
OLF	5,6,7	R	3+6



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	MAX	X
3				
4		8		X
5				
6	X	2	MAX	X
7				
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1		
2	6	4,8
3		
4	8	2,6
5		
6	2	4,8
7		
8	4	2,6

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
41		X			4	4					
42		X			4	4		X			
81		X			8	8					

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE DETECTOR	A, B	C, D
MOVEMENT	⇆	⇊⇈
PHASE	2+6	4+8

STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

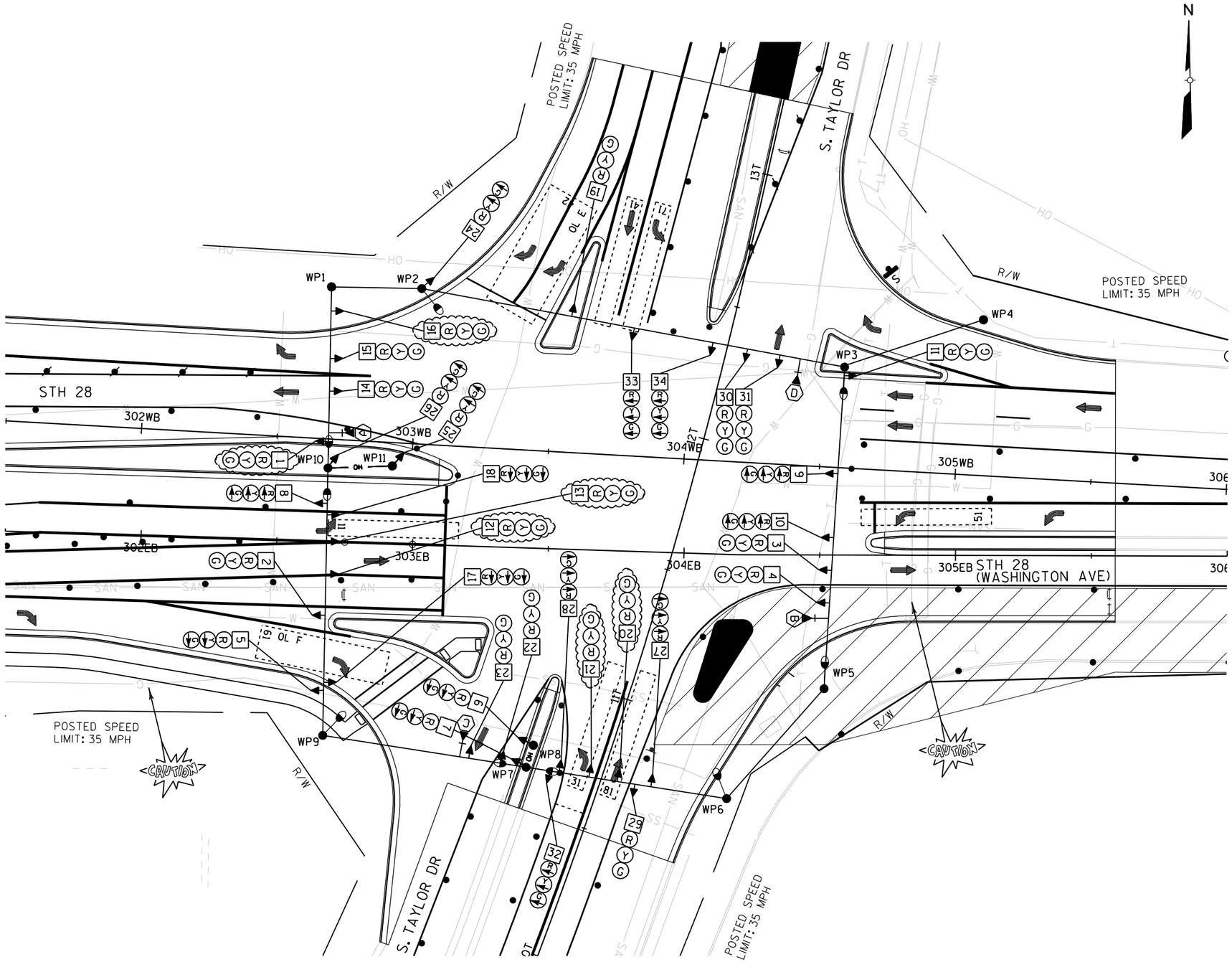
CONTROLLER TYPE: TEMP

DATE DECEMBER 2014 PAGE NO. 10 OF 13

PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | TEMPORARY SEQUENCE OF OPERATIONS - STAGE 2A & 2B & 2C | SHEET 156 | E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\Temp_sequence_sh10_TaylorPHASE2B.dgn
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PLOT DATE: 7/29/2015
PLOT TIME: 2:40:30 PM
PLOT SCALE: 1:40
BATCH PRINT SHEET 52 OF 63

WISDOT/CADDS SHEET 42



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

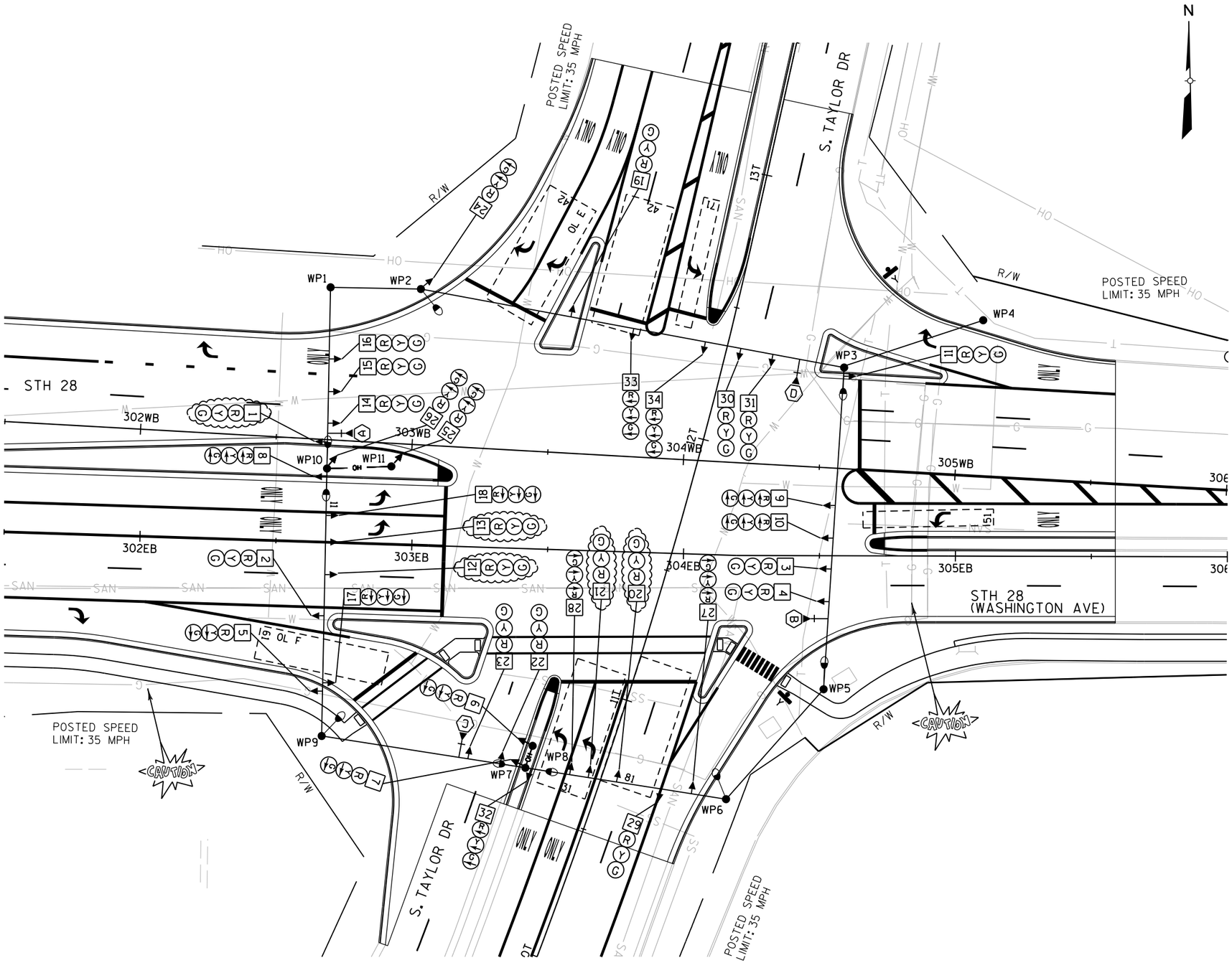
NOTE: ALL LENSES ARE 12-INCH

TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PAGE 11 OF 13

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3	SHEET 157 E

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PLOT SCALE: 1:40



LEGEND

- SPAN WIRE
- AERIAL CABLE
- LUMINAIRE (250 W)
- CLASS 4 WOOD POLE
- SIGNAL HEAD, OVERHEAD MOUNT
- NON-INTRUSIVE DETECTION AREA
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- SIGNAL HEAD TO BE BAGGED
- EVP DESIGNATOR
- EVP DETECTOR HEAD
- YIELD SIGN
- STOP SIGN
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH

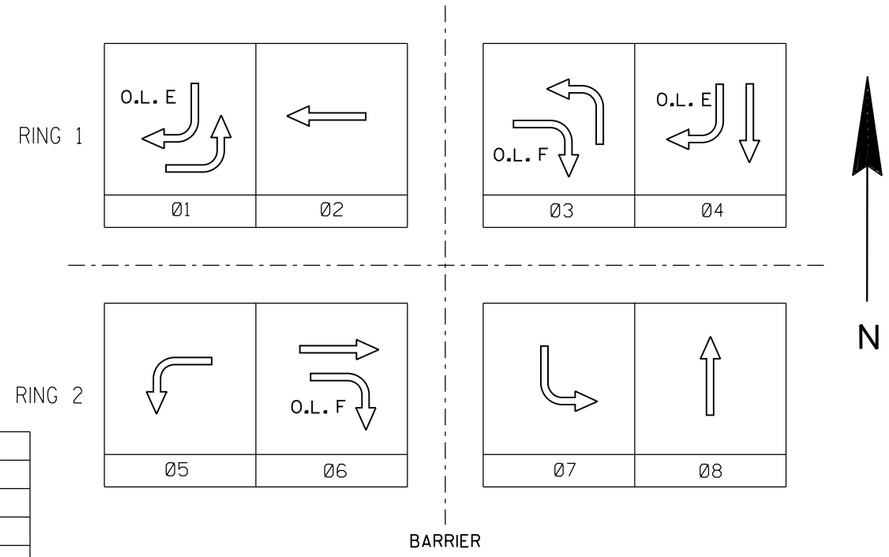
TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - POSTCONSTRUCTION STAGE	SHEET 158	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\temp_sig_sh12_Taylor.dgn
BATCH PRINT SHEET 54 OF 63
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PLOT TIME: 2:40:38 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	8,9,10	R
Ø2	11,12,13,14,15,16	R
Ø3	32,33,34	R
Ø4	19,20,21,22,23	R
Ø5	17,18	R
Ø6	1,2,3,4	R
Ø7	27,28	R
Ø8	29,30,31	R
OLE	24,25,26	R
OLF	5,6,7	R

O.L. ASSIGNMENTS
1+4
3+6



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3		8		X
4		8		X
5		2		X
6	X	2	MAX	X
7		2		X
8		4		X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	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	DETECTOR INPUT	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					
31		X			3	3					
41		X			4	4					
42		X			4	4		X			
51		X			5	5					
61		X			6	6		X			
71		X			7	7					
81		X			8	8					

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE DETECTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	1+6	4+7	3+8

STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

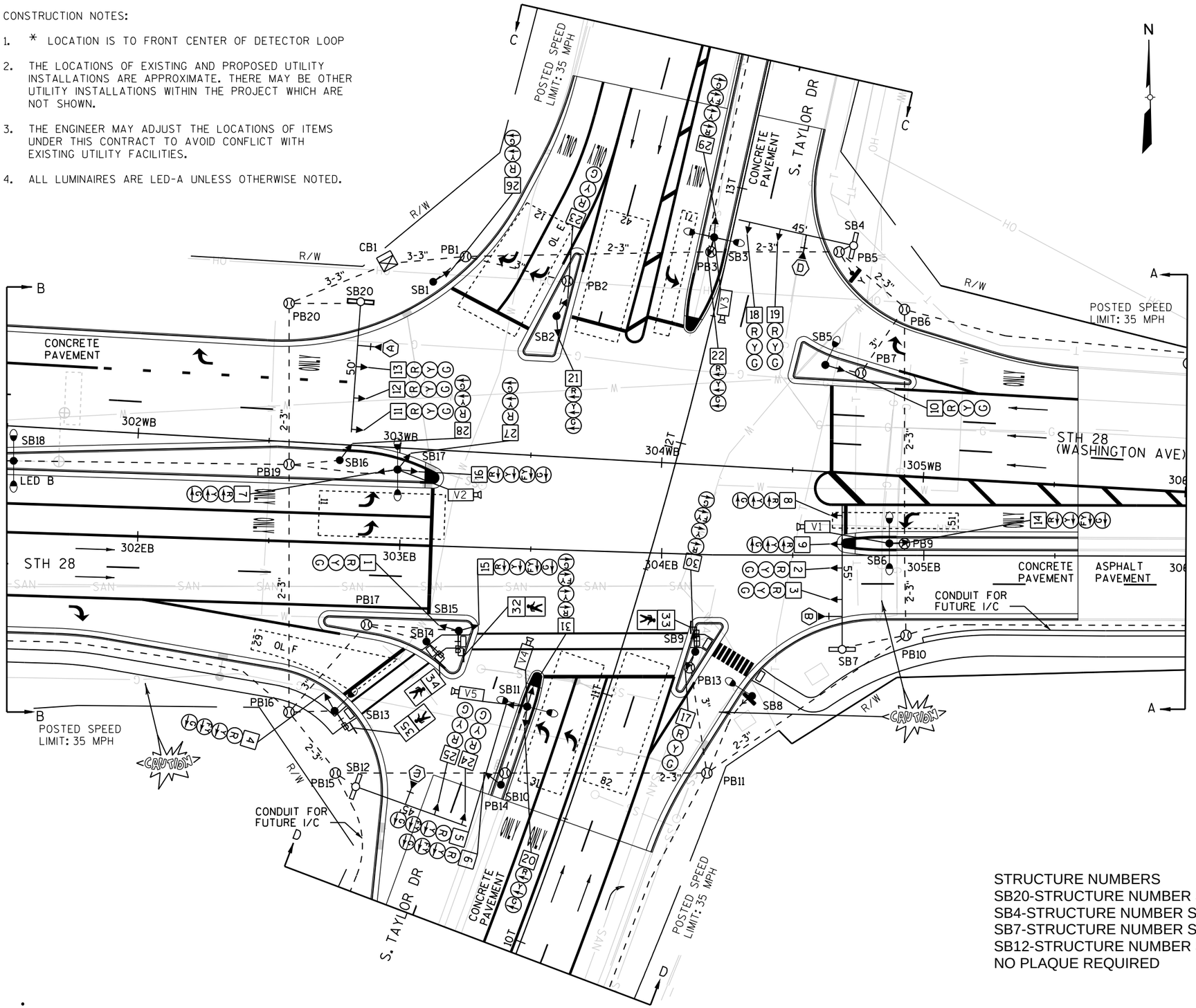
CONTROLLER TYPE: TEMP

DATE DECEMBER 2014 PAGE NO. 13 OF 13

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PLOT DATE: 7/29/2015
PLOT TIME: 2:40:41 PM
PLOT SCALE: 1:40
BATCH PRINT SHEET 55 OF 63
WISDOT/CADDS SHEET 42

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. ALL LUMINAIRES ARE LED-A UNLESS OTHERWISE NOTED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- PEDESTRIAN HEAD WITH PUSH BUTTON
- PUSH BUTTON
- LUMINAIRE LED-B (UNLESS OTHERWISE NOTED), TRAFFIC POLE, TRANSFORMER BASE
- VIDEO DETECTION AREA
- VIDEO DETECTION CAMERA
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- Y YIELD SIGN
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

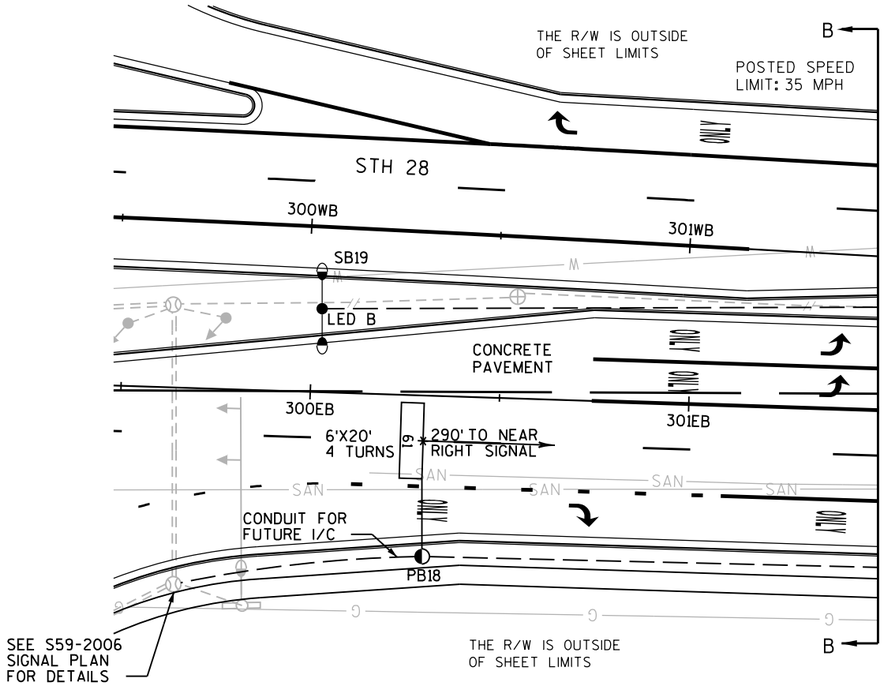
CONFIGURATION WITH HEAD NUMBERS						
3-V	4-VYFL	3-VAL	3-VR	4-VYFR	2-P	EVP
1,2,3,10,11, 12,13,17,18 19,23,24,25	14,15,16 29,30,31	7,8,9, 20,21,22	26,27,28	4,5,6	32,33 34,35	A,B,C,D

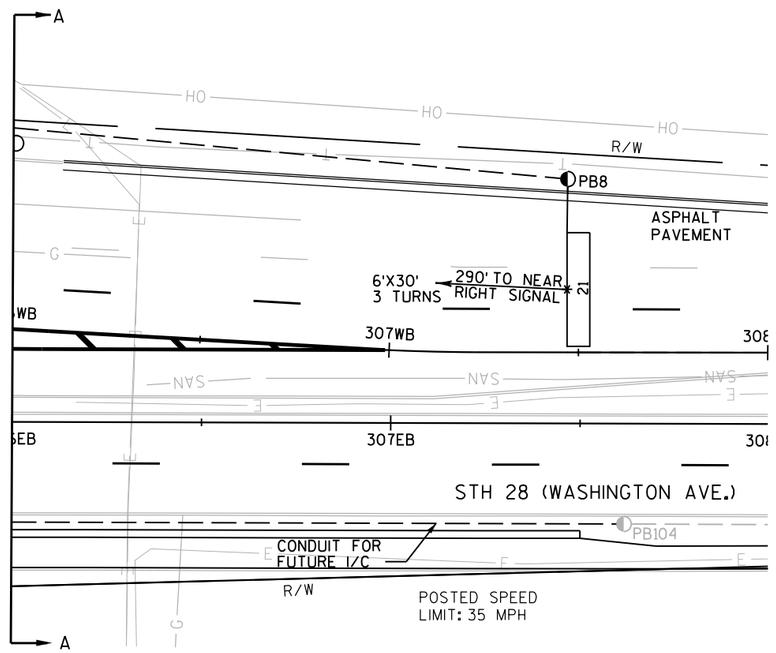
STRUCTURE NUMBERS
SB20-STRUCTURE NUMBER S-59-0061
SB4-STRUCTURE NUMBER S-59-0062
SB7-STRUCTURE NUMBER S-59-0063
SB12-STRUCTURE NUMBER S-59-0064
NO PLAQUE REQUIRED

TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY
CONTROLLER TYPE: EPAC M52
PAGE 1 OF 4

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC SIGNAL PLAN	SHEET 160	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\sigplan_Taylor Dr_shl.dgn PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\AE_PDF_11 x 17.plt
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BATCH PRINT SHEET 1 OF 1
WISDOT/CADDS SHEET 42





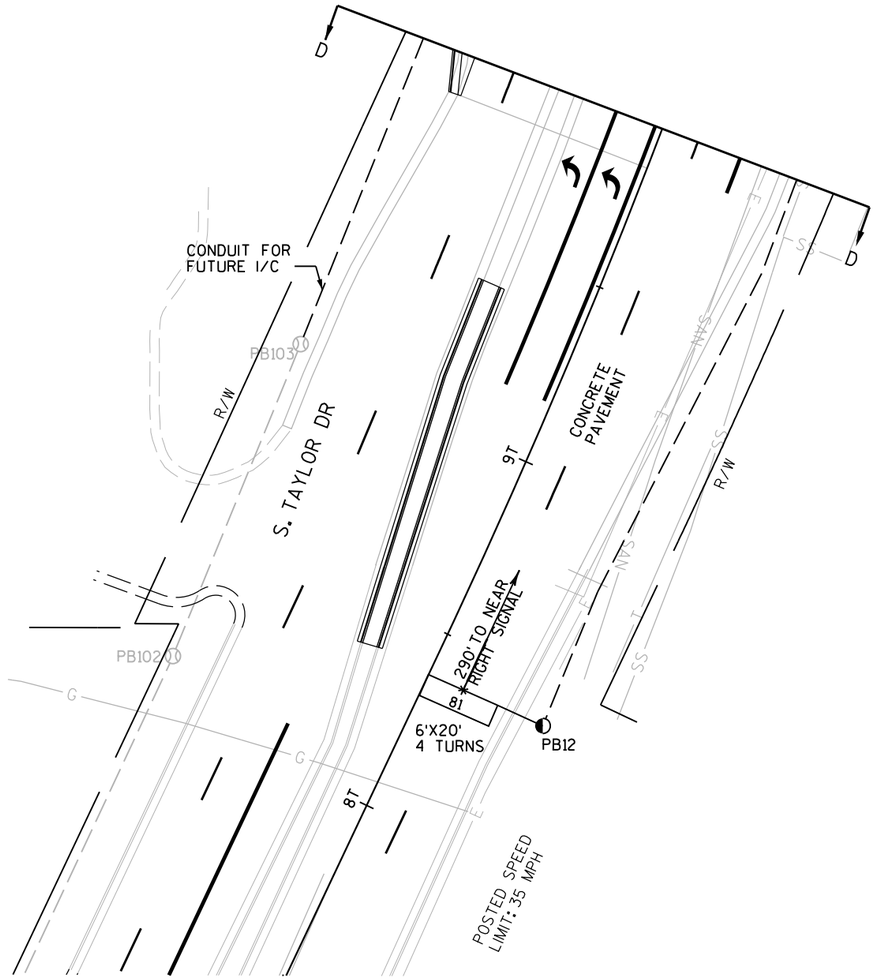


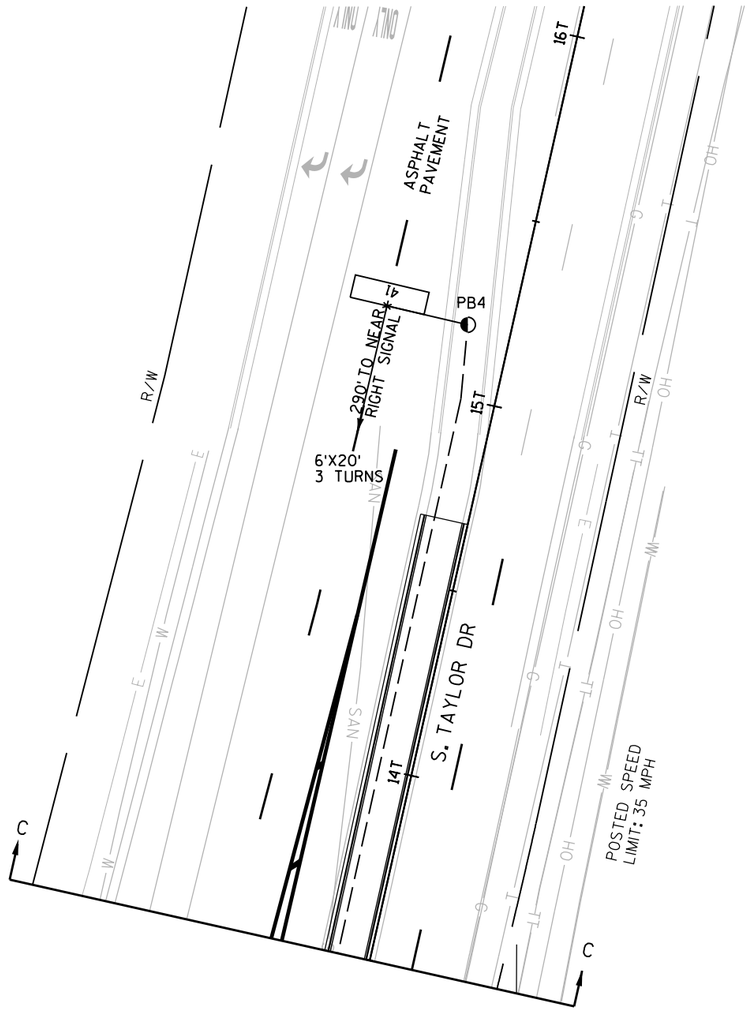
TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

CONTROLLER TYPE: EPAC M52

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC SIGNAL PLAN	SHEET 161	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000.CAD\001.Drawings\Design\sigplan_Taylor Dr_sh2.dgn PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\AE_PDF_11 x 17 Traffic Signals.plt
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PLOT DATE: 7/29/2015 PLOT TIME: 2:40:49 PM PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42





TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

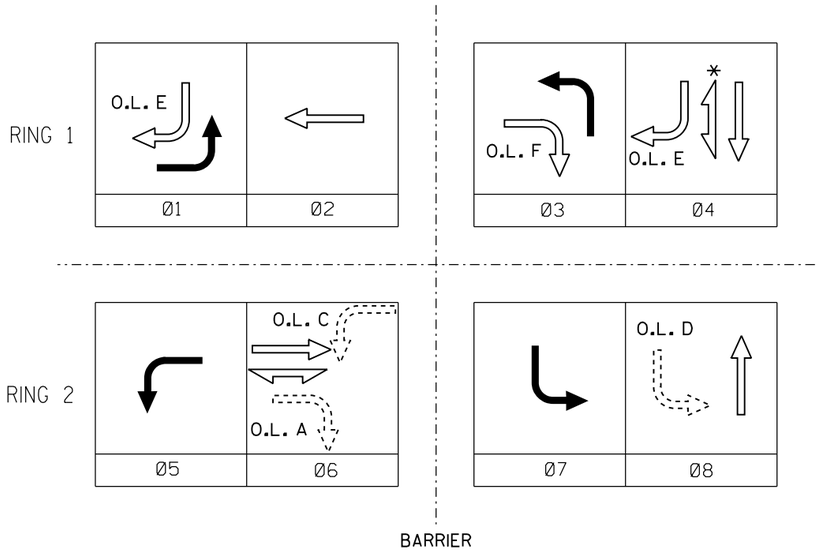
CONTROLLER TYPE: EPAC M52

PAGE 3 OF 4

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC SIGNAL PLAN	SHEET 162	E

FILE NAME: \\USMSNIFS001\prod\Data\Library\work\projects\60187755\000_CAD\001_Drawings\Design\sigplan_Taylor Dr_sh3.dgn PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\MicroStation\Resources\MS_Printing\Printer_Drivers\AE_PDF_11 x 17 Traffic Signals.plt
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WISDOT/CADDS SHEET 42

	HEAD NUMBERS	FLASH
Ø1	7,8,9	R
Ø2	10,11,12,13	R
Ø3	20,21,22	R
Ø4	23,24,25	R
Ø5	14,15,16	R
Ø6	1,2,3	R
Ø7	29,30,31	R
Ø8	17,18,19	R
Ø4P	32,33	-
Ø6P	29,30	-
OLA	4,5,6	R
OLC	15,16,17	-
OLD	29,30,31	-
OLE	26,27,28	R
OLF	4,5,6	-





* PEDESTRIAN CROSSING IS FOR THE CROSSING OF THE EASTBOUND RIGHT-TURN LANE.

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

LEGEND



TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR #(S)	11	21	41	51	62	71	82	
ASSIGNED PHASE	1	2	4	5	6	7	8	
OPERATION MODE	VEH	VEH	VEH	VEH	VEH	VEH	VEH	
SWITCH								
EXTEND			X					
DELAY					X			

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR #(S)
								ASSIGNED PHASE
								OPERATION MODE
								SWITCH
								EXTEND
								DELAY

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR #(S)	12	31	42	61	63	81		
ASSIGNED PHASE	1	3	4	6	6	8		
OPERATION MODE	VEH	VEH	VEH	VEH	VEH	VEH		
SWITCH								
EXTEND						X		
DELAY	X				X			

20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR #(S)
								ASSIGNED PHASE
								OPERATION MODE
								SWITCH
								EXTEND
								DELAY

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	
GTT	X
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE DETECTOR	A	B	C	D
MOVEMENT				
PHASE	2+5	1+6	4+7	3+8

TRAFFIC CONTROL SIGNAL
STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

CONTROLLER TYPE: EPAC M52

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	SEQUENCE OF OPERATIONS	SHEET 163	E

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PLOT TIME: 1:55:54 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

PROJECT ID:	4640-05-71
INTERSECTION:	STH 28 & TAYLOR DR

SIGNAL WIRE	BLK-BLACK	RED-RED	GRN-GREEN
COLOR CODING	WHT-WHITE	BLU-BLUE	ORG-ORANGE

DATE:	Jul-15

CB1 TO	AWG 14 # OF COND.	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON	OTHER
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<FLASH YEL>	<GREEN>	D/WALK	WALK		
SB1	12	26	RED				ORG		GRN				
SB2	12	23	RED	ORG	GRN								
		21				RED/BLK	ORG/BLK		GRN/BLK				
SB3	12	22				RED	ORG		GRN				
		29				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
SB4	12	18	RED	ORG	GRN								
		19	RED	ORG	GRN								
SB5	12	10	RED	ORG	GRN								
SB6	12	14				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
SB7	12	2	RED	ORG	GRN								
		3	RED	ORG	GRN								
		8				RED/BLK	ORG/BLK		GRN/BLK				
		9				RED/BLK	ORG/BLK		GRN/BLK				
SB9	15	17	RED	ORG	GRN								
		30				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		33								BLK	BLU		
		PB										WHT/BLK	
SB10	12	6				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
SB11	15	5				RED	ORG	BLK	GRN				
		20				RED/BLK	ORG/BLK		GRN/BLK				
		31				RED/WHT	BLU/WHT	BLK/WHT	GRN/WHT				
SB12	12	24	RED	ORG	GRN								
		25	RED	ORG	GRN								
SB13	12	4				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		35								BLK	BLU		
		PB										WHT/BLK	
SB14	12	34								BLK	BLU		
		PB										WHT/BLK	
SB15	15	1	RED	ORG	GRN								
		15				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		32								BLK	BLU		
		PB										WHT/BLK	
SB16	12	28	RED				ORG		BLK				
SB17	15	7				RED	ORG		GRN				
		16				RED/BLK	ORG/BLK	BLK/WHT	GRN/BLK				
		27	RED/WHT				BLU/WHT		GRN/WHT				
SB20	12	11	RED	ORG	GRN								
		12	RED	ORG	GRN								
		13	RED	ORG	GRN								

STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

CONTROLLER TYPE: EPAC M52

DATE JULY 2015 PAGE NO. 1 OF 2

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CABLE ROUTING	SHEET 164	E

EQUIPMENT GROUNDING CONDUCTORS 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	SB17
SB17	SB20
SB20	CB1

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	SB1
PB2	SB2
PB3	SB3
PB5	SB4
PB6	SB4
PB7	SB5
PB9	SB6
PB10	SB7
PB11	SB8
PB13	SB9
PB14	SB10
PB15	SB12
PB16	SB12
PB17	SB14
PB19	SB16
PB20	SB20

LIGHTING UF 10 AWG W/ GROUND	
FROM	TO
CB1	SB3
SB3	SB5
SB5	SB6
SB6	SB8
CB1	SB17
SB17	SB18
SB18	SB19
SB17	SB13
SB13	SB11

EMERGENCY VEHICLE PREEMPTION		
HEAD	FROM	TO
A	CB1	SB20
B	CB1	SB7
C	CB1	SB12
D	CB1	SB4

NOTES:
1. USE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 18" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. 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.

STH 28 & S. TAYLOR DR.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. S53-0784

CONTROLLER TYPE: EPAC M52

DATE JULY 2015 PAGE NO. 2 OF 2

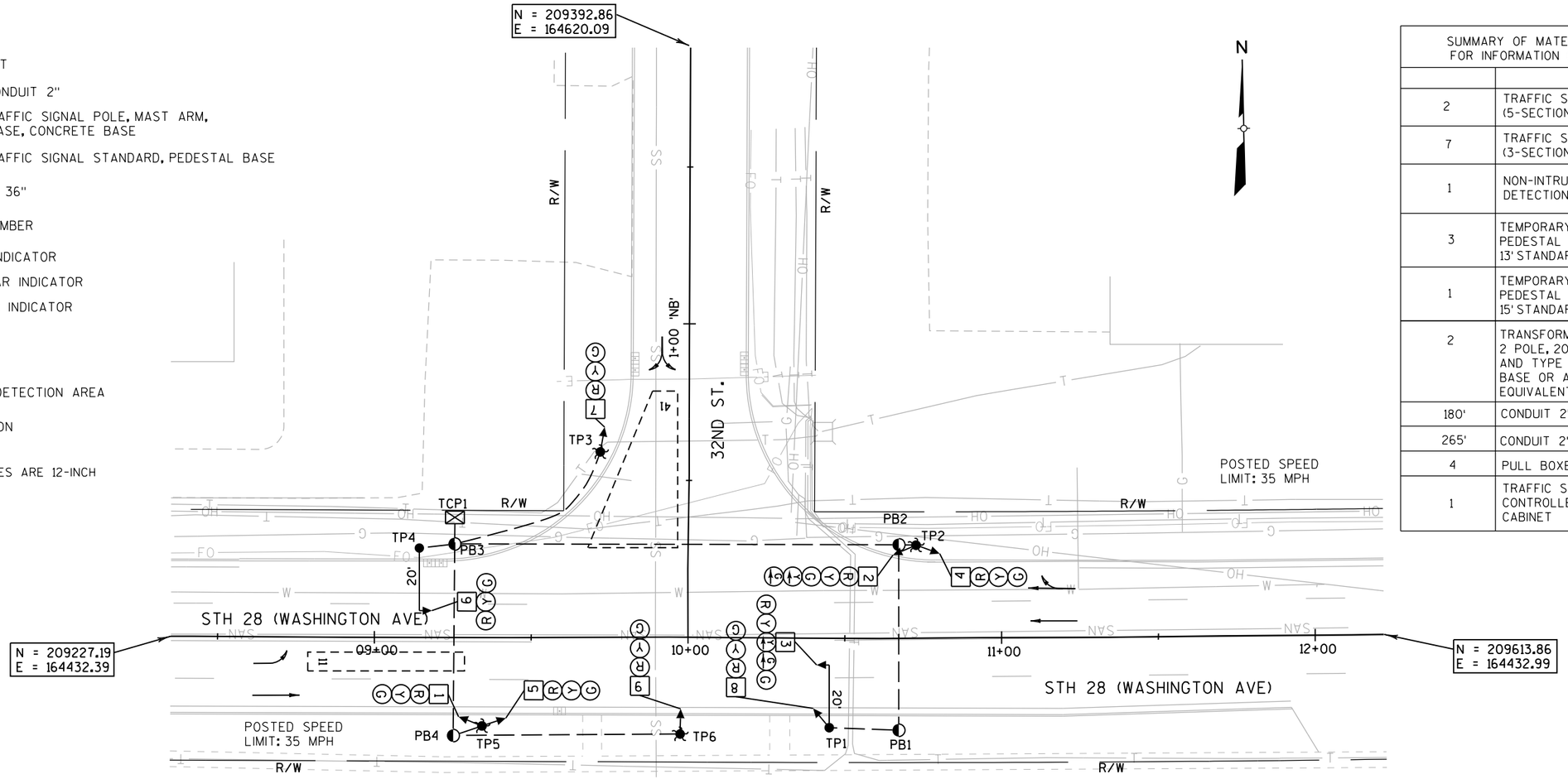
PROJECT NUMBER: 4640-05-71 | HWY: STH 28 | COUNTY: SHEBOYGAN | CABLE ROUTING | SHEET 165 | E

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2"
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, MAST ARM, TRANSFORMER BASE, CONCRETE BASE
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- PULL BOX, 24" X 36"
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- NON-INTRUSIVE DETECTION AREA
- LANE DESIGNATION FOR INFO ONLY

NOTE: ALL LENSES ARE 12-INCH



SUMMARY OF MATERIALS FOR INFORMATION ONLY	
2	TRAFFIC SIGNAL FACES (5-SECTION HEAD)
7	TRAFFIC SIGNAL FACES (3-SECTION HEAD)
1	NON-INTRUSIVE VEHICLE DETECTION SYSTEM
3	TEMPORARY BASE, PEDESTAL BASE, & 13' STANDARD POLE
1	TEMPORARY BASE, PEDESTAL BASE, & 15' STANDARD POLE
2	TRANSFORMER BASE, TYPE 2 POLE, 20' MAST ARM, AND TYPE 2 CONCRETE BASE OR APPROVED EQUIVALENT
180'	CONDUIT 2"
265'	CONDUIT 2" SPECIAL
4	PULL BOXES
1	TRAFFIC SIGNAL CONTROLLER AND CABINET

SIGNAL BASE LOCATIONS (SEE NOTE 5)	
TCP1	9+26, 38' LT
TP1	10+45, 28' RT
TP2	10+73, 30' LT
TP3	0+59 'NB', 28' LT
TP4	9+14, 29' LT
TP5	9+34, 28' RT
TP6	9+98, 31' RT

PULL BOX LOCATIONS (SEE NOTE 5)	
PB1	10+67, 29' RT
PB2	10+68, 33' LT
PB3	9+26, 30' LT
PB4	9+25, 31' RT

CONSTRUCTION NOTES:

1. 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.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. STATION EQUATION: 10+00 = 0+00 'NB'.
5. ALL SIGNAL EQUIPMENT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
6. ALL TRAFFIC SIGNAL POLES, MAST ARMS, PEDESTAL BASES, TRANSORMER BASES, AND TRAFFIC SIGNAL HEADS SHALL BE STANDARD WISDOT EQUIPMENT.

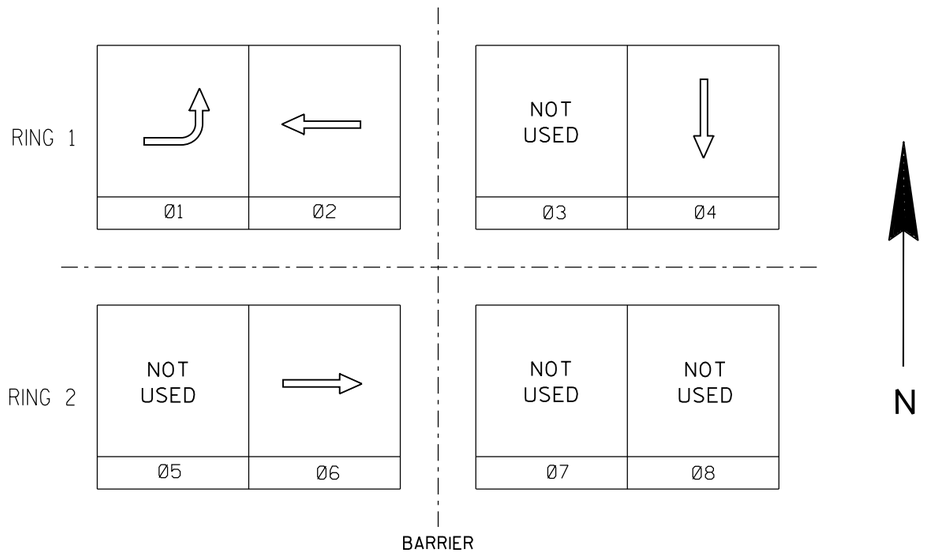
TEMPORARY TRAFFIC CONTROL SIGNAL
STH 28 & 32ND ST.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TEMPORARY TRAFFIC SIGNAL PLAN - ALL STAGES	SHEET 166	E

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PLOT TIME: 2:41:04 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

	HEAD NUMBERS	FLASH	
Ø1	2, 3	R	
Ø2	4, 5, 6	R	
Ø3		-	
Ø4	7, 8, 9	R	
Ø5		-	
Ø6	1, 2, 3	R	
Ø7		-	
Ø8		-	O.L. ASSIGNMENTS
OLA			
OLB			
OLC			
OLD			



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MAX	X
3				
4				X
5				
6	X	2	MAX	X
7				
8				

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	X
CLOSED LOOP	
TWISTED PAIR*	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	

TYPE OF COORDINATION	
NONE	
TBC	X
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	X
IN TRAFFIC SIGNAL CABINET	
IN SEPARATE DOT LIGHTING CABINET	

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	6	2,4
2	6	1,4
3		
4		1,2,6
5		
6	1 OR 2	4
7		
8		

DETECTOR LOGIC

DETECTOR NUMBER	DETECTOR INPUT	DETECTOR OPERATION			PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
		CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY							
11		X			1	1					
41		X			4	4					

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

STH 28 & 32ND ST.
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO.

CONTROLLER TYPE: TEMP

DATE JULY 2015 PAGE NO. 2 OF 2

FILE NAME: L:\work\projects\60187755\000_CAD\001_Drawings\Design\Temp_sequence_sh2_32nd St.dgn
BATCH PRINT SHEET 63 OF 63
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PLOT TIME: 2:41:06 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

MONOTUBE STRUCTURE NUMBERS	
SB2	S-59-0052
SB5	S-59-0053
SB9	S-59-0054

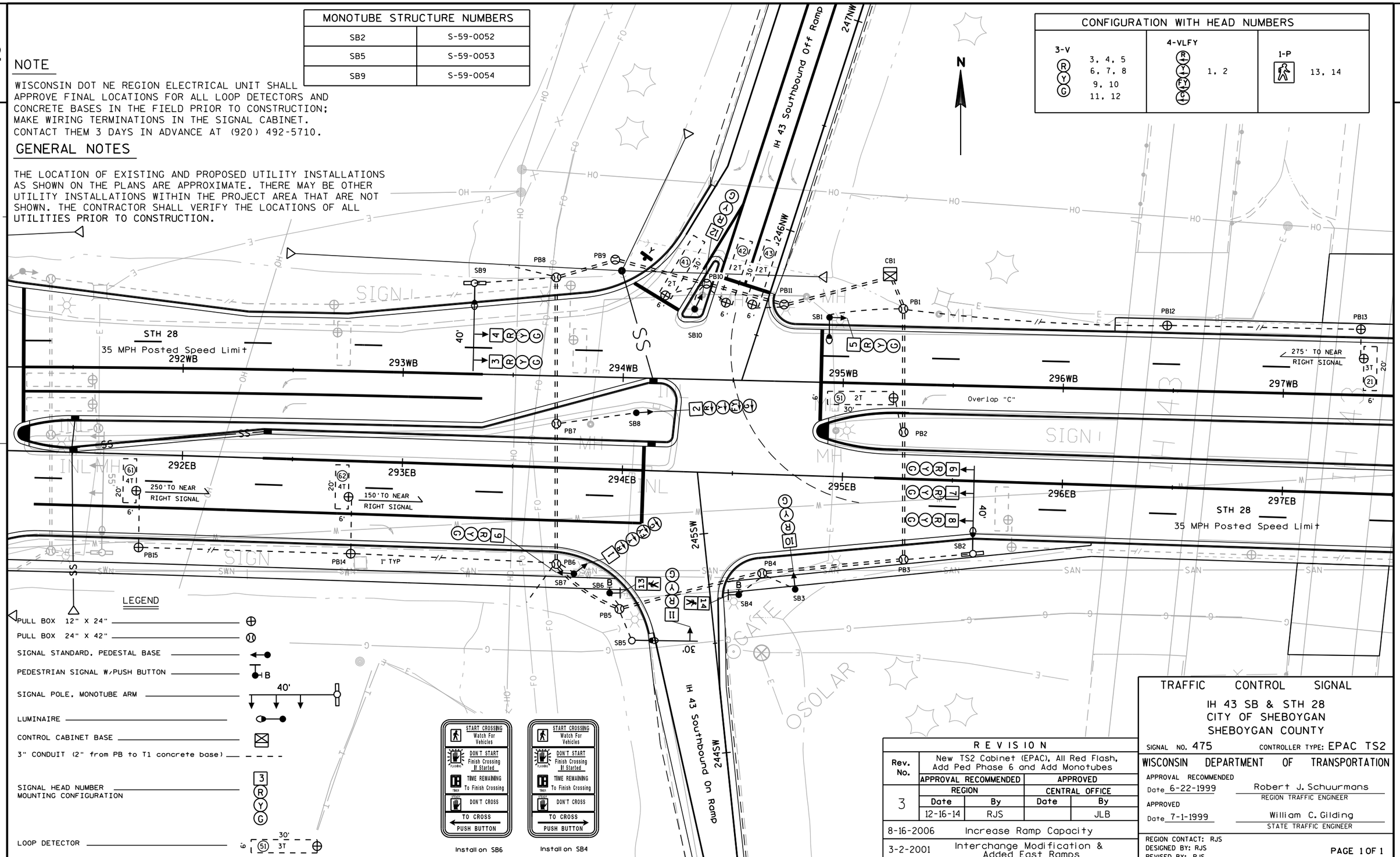
NOTE

WISCONSIN DOT NE REGION ELECTRICAL UNIT SHALL APPROVE FINAL LOCATIONS FOR ALL LOOP DETECTORS AND CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION; MAKE WIRING TERMINATIONS IN THE SIGNAL CABINET. CONTACT THEM 3 DAYS IN ADVANCE AT (920) 492-5710.

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CONFIGURATION WITH HEAD NUMBERS		
3-V (R Y G)	3, 4, 5 6, 7, 8 9, 10 11, 12	4-VLFY (R Y FY G): 1, 2 — 1-P: 13, 14



LEGEND

- PULL BOX 12" X 24"
- PULL BOX 24" X 42"
- SIGNAL STANDARD, PEDESTAL BASE
- PEDESTRIAN SIGNAL W/PUSH BUTTON (B)
- SIGNAL POLE, MONOTUBE ARM (40')
- LUMINAIRE
- CONTROL CABINET BASE
- 3" CONDUIT (2" from PB to T1 concrete base)
- SIGNAL HEAD NUMBER / MOUNTING CONFIGURATION (3 R Y G)
- LOOP DETECTOR (30' x 6', 51, 3T)

Install on SB6

Install on SB4

REVISION				
Rev. No.	New TS2 Cabinet (EPAC), All Red Flash, Add Ped Phase 6 and Add Monotubes			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
	Date	By	Date	By
3	12-16-14	RJS		JLB
8-16-2006	Increase Ramp Capacity			
3-2-2001	Interchange Modification & Added East Ramps			

TRAFFIC CONTROL SIGNAL

IH 43 SB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 475 CONTROLLER TYPE: EPAC TS2

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 6-22-1999 — Robert J. Schuurmans, REGION TRAFFIC ENGINEER

APPROVED
Date 7-1-1999 — William C. Gilding, STATE TRAFFIC ENGINEER

REGION CONTACT: RJS
DESIGNED BY: RJS
REVISED BY: RJS

PAGE 1 OF 1

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CONSTRUCTION DETAIL - TRAFFIC SIGNAL REVISION	SHEET 168 E

FILE NAME : F:\d3_traffi\S-475,rev3.dgn PLOT DATE : 22-DEC-2014 08:37 PLOT BY : dotc5s PLOT NAME : S-475,rev3,const PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

MONOTUBE STRUCTURE NUMBERS	
SB2	S-59-0055
SB4	S-59-0056
SB8	S-59-0057

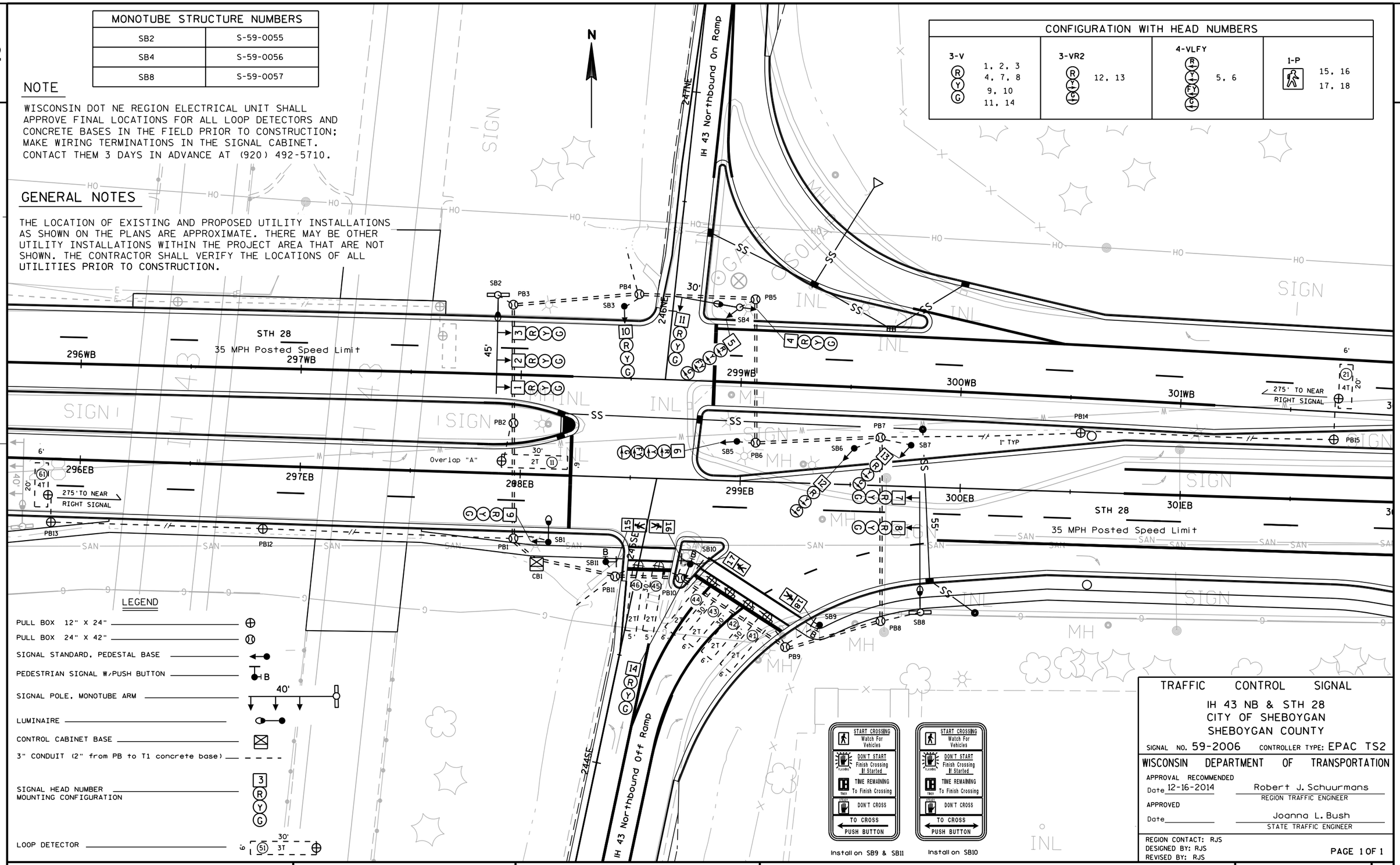
NOTE

WISCONSIN DOT NE REGION ELECTRICAL UNIT SHALL APPROVE FINAL LOCATIONS FOR ALL LOOP DETECTORS AND CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION; MAKE WIRING TERMINATIONS IN THE SIGNAL CABINET. CONTACT THEM 3 DAYS IN ADVANCE AT (920) 492-5710.

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G): 1, 2, 3 / 4, 7, 8 / 9, 10 / 11, 14	3-VR2 (R Y G): 12, 13	4-VLFY (R Y Y G): 5, 6	1-P: 15, 16 / 17, 18



LEGEND

- PULL BOX 12" X 24"
- PULL BOX 24" X 42"
- SIGNAL STANDARD, PEDESTAL BASE
- PEDESTRIAN SIGNAL W/PUSH BUTTON (B)
- SIGNAL POLE, MONOTUBE ARM (40')
- LUMINAIRE
- CONTROL CABINET BASE
- 3" CONDUIT (2" from PB to T1 concrete base)
- SIGNAL HEAD NUMBER / MOUNTING CONFIGURATION (3 R Y G)
- LOOP DETECTOR (30' x 6', 51, 3T)

Install on SB9 & SB11

Install on SB10

TRAFFIC CONTROL SIGNAL

IH 43 NB & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

SIGNAL NO. 59-2006 CONTROLLER TYPE: EPAC TS2

WISCONSIN DEPARTMENT OF TRANSPORTATION

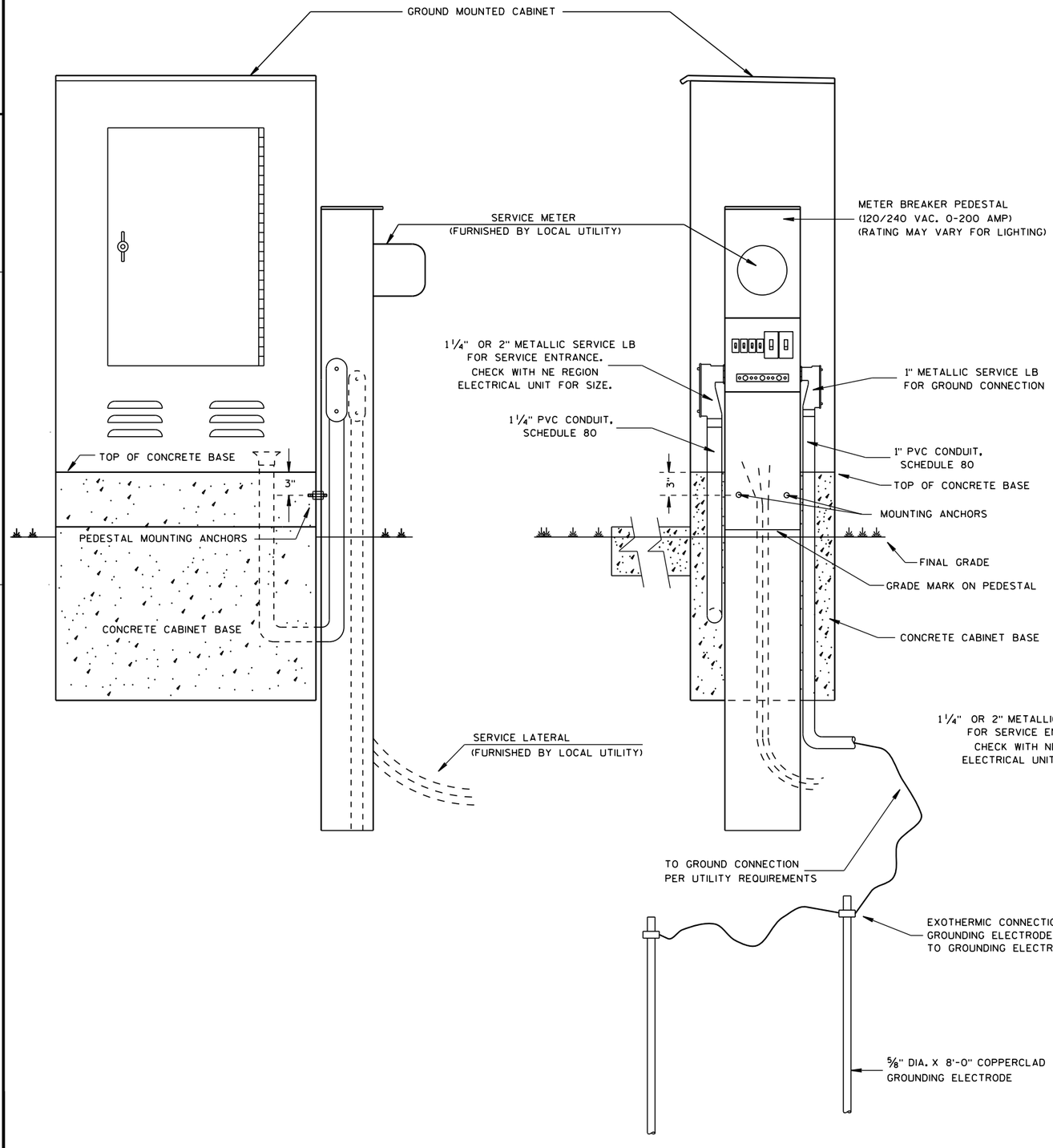
APPROVAL RECOMMENDED
Date 12-16-2014 — Robert J. Schuurmans, REGION TRAFFIC ENGINEER

APPROVED
Date ____ — Joanna L. Bush, STATE TRAFFIC ENGINEER

REGION CONTACT: RJS
DESIGNED BY: RJS
REVISED BY: RJS

PAGE 1 OF 1

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CONSTRUCTION DETAIL - TRAFFIC SIGNAL REVISION	SHEET 169	E



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.

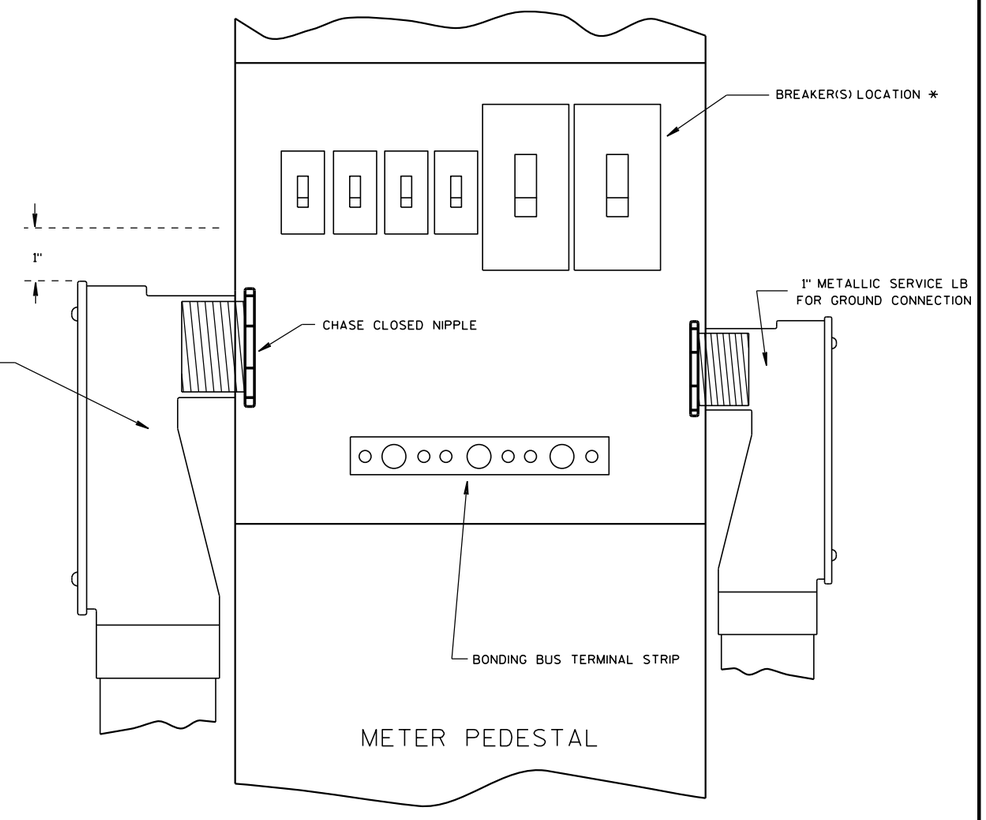
WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT OR SCHEDULE 80 PVC, NIPPLES AND/OR CONDULETS AS REQUIRED. CONDUIT LB SHALL BE OF METALLIC SERVICE ENTRANCE TYPE.

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 NEC.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CONSTRUCTION DETAIL- NER METER PEDESTAL INSTALLATION	SHEET 170 E

NOTE

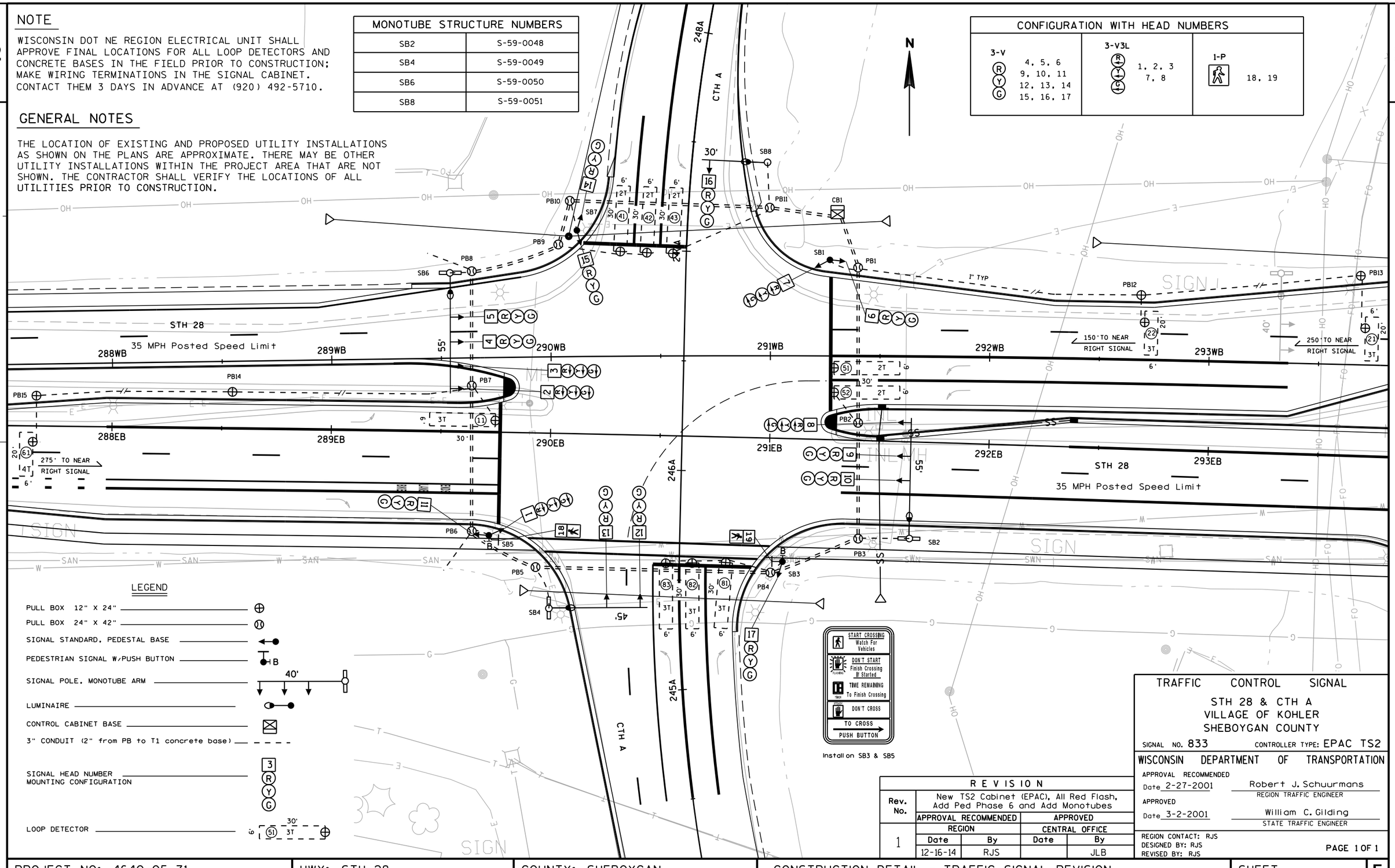
WISCONSIN DOT NE REGION ELECTRICAL UNIT SHALL APPROVE FINAL LOCATIONS FOR ALL LOOP DETECTORS AND CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION; MAKE WIRING TERMINATIONS IN THE SIGNAL CABINET. CONTACT THEM 3 DAYS IN ADVANCE AT (920) 492-5710.

MONOTUBE STRUCTURE NUMBERS	
SB2	S-59-0048
SB4	S-59-0049
SB6	S-59-0050
SB8	S-59-0051

CONFIGURATION WITH HEAD NUMBERS		
3-V (R, Y, G)	4, 5, 6 9, 10, 11 12, 13, 14 15, 16, 17	3-V3L (R, Y, G) 1, 2, 3 7, 8
1-P	18, 19	

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.



LEGEND

- PULL BOX 12" X 24"
- PULL BOX 24" X 42"
- SIGNAL STANDARD, PEDESTAL BASE
- PEDESTRIAN SIGNAL W/PUSH BUTTON (B)
- SIGNAL POLE, MONOTUBE ARM (40')
- LUMINAIRE
- CONTROL CABINET BASE
- 3" CONDUIT (2" from PB to T1 concrete base)
- SIGNAL HEAD NUMBER / MOUNTING CONFIGURATION (3 R Y G)
- LOOP DETECTOR (30', 6', 51, 3T)

Install on SB3 & SB5

REVISION				
Rev. No.	New TS2 Cabinet (EPAC), All Red Flash, Add Ped Phase 6 and Add Monotubes			
	APPROVAL RECOMMENDED		APPROVED	
	REGION		CENTRAL OFFICE	
	Date	By	Date	By
1	12-16-14	RJS		JLB

TRAFFIC CONTROL SIGNAL

STH 28 & CTH A
VILLAGE OF KOHLER
SHEBOYGAN COUNTY

SIGNAL NO. 833 CONTROLLER TYPE: EPAC TS2

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 2-27-2001 Robert J. Schuurmans
REGION TRAFFIC ENGINEER

APPROVED
Date 3-2-2001 William C. Gilding
STATE TRAFFIC ENGINEER

REGION CONTACT: RJS
DESIGNED BY: RJS
REVISED BY: RJS

PAGE 1 OF 1

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CONSTRUCTION DETAIL - TRAFFIC SIGNAL REVISION	SHEET 171 E

2

LEGEND

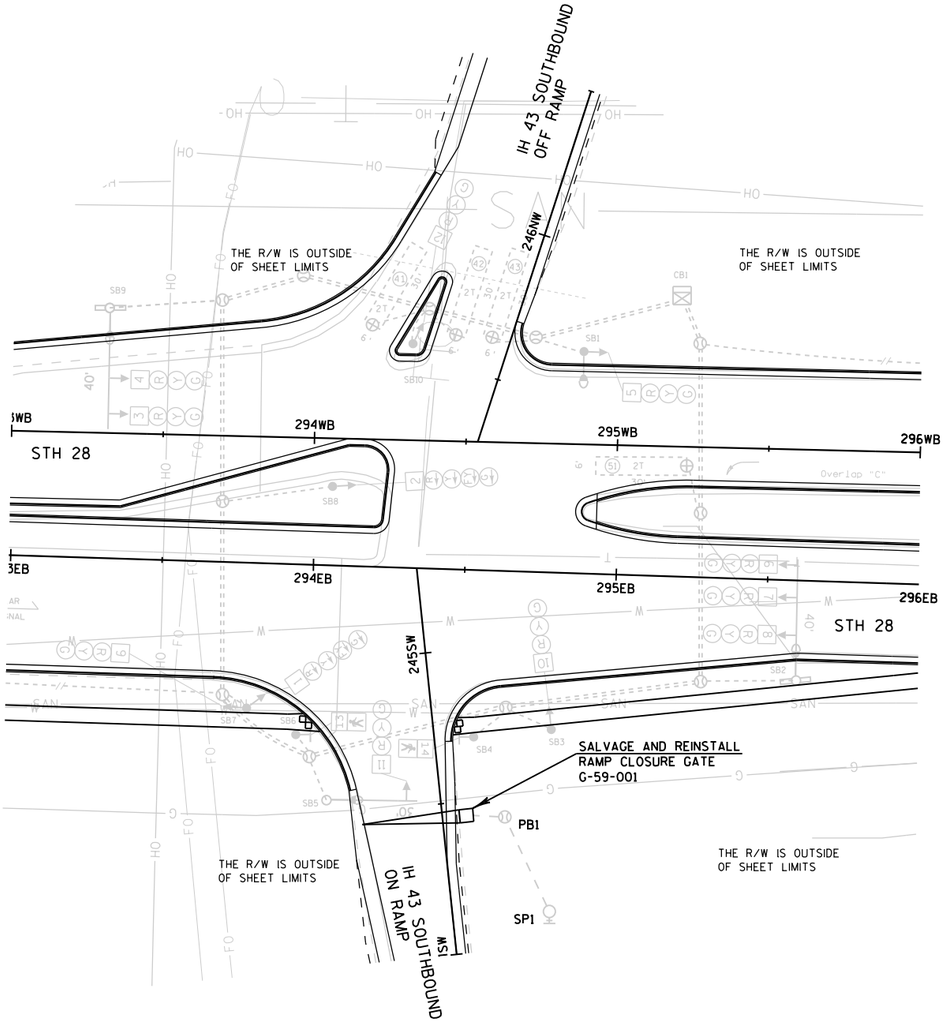
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE, LED A
- PULL BOX
- RAMP GATE
- SOLAR POWER SYSTEM

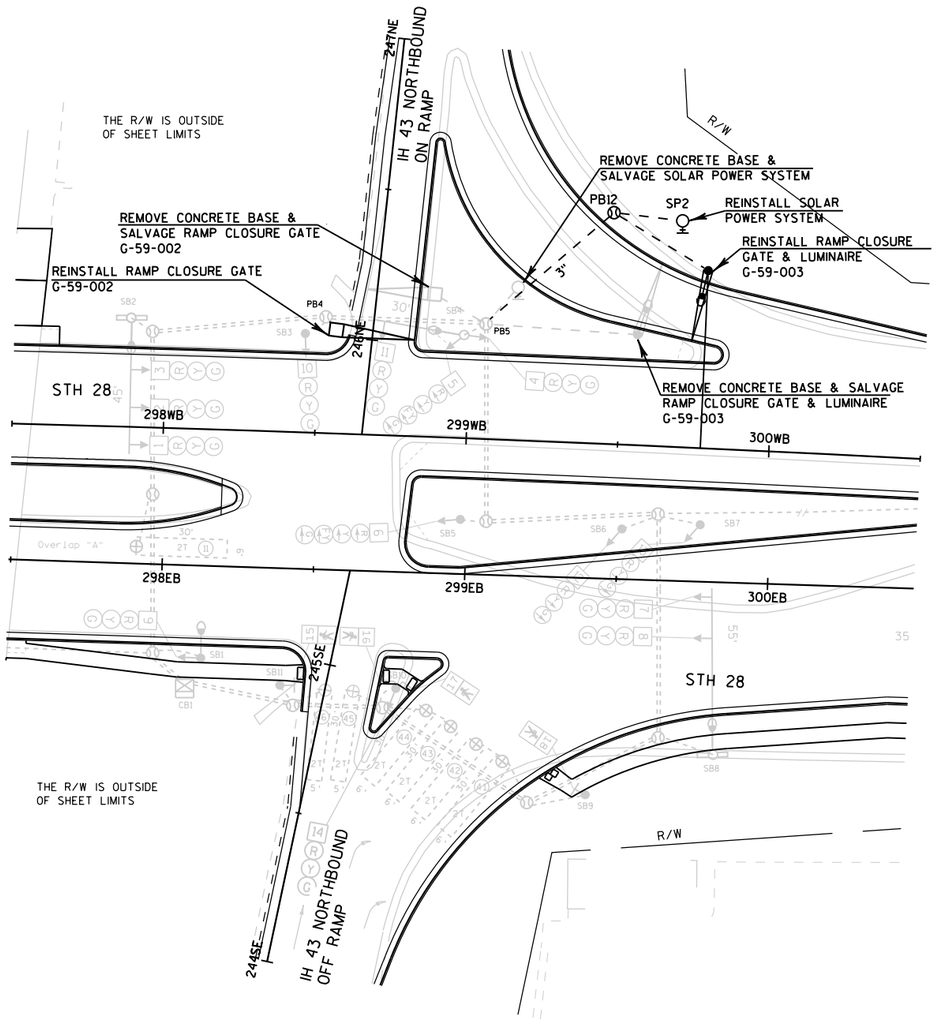
NOTE: GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
2. NOTIFY THE NORTHEAST REGION TRAFFIC SECTION AT (920) 492-5651 TO LOCATE THE RAMP GATE 5 BUSINESS DAYS PRIOR TO POURING THE RAMP GATE CONCRETE BASES.

N





RAMP CLOSURE GATES

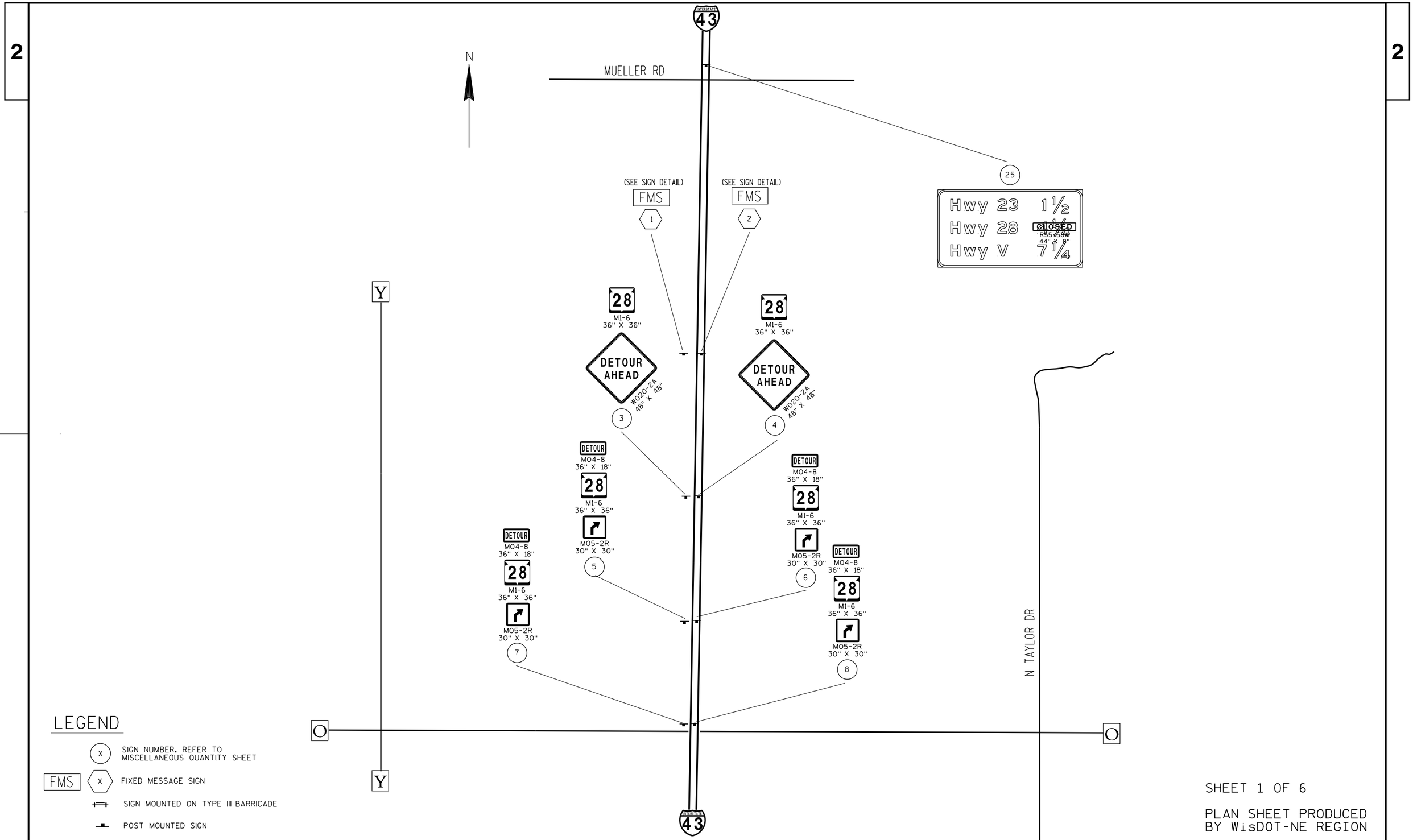
IH 43 RAMPS & STH 28
CITY OF SHEBOYGAN
SHEBOYGAN COUNTY

REGION CONTACT: RJS
DESIGNED BY: AECOM
REVISED BY:

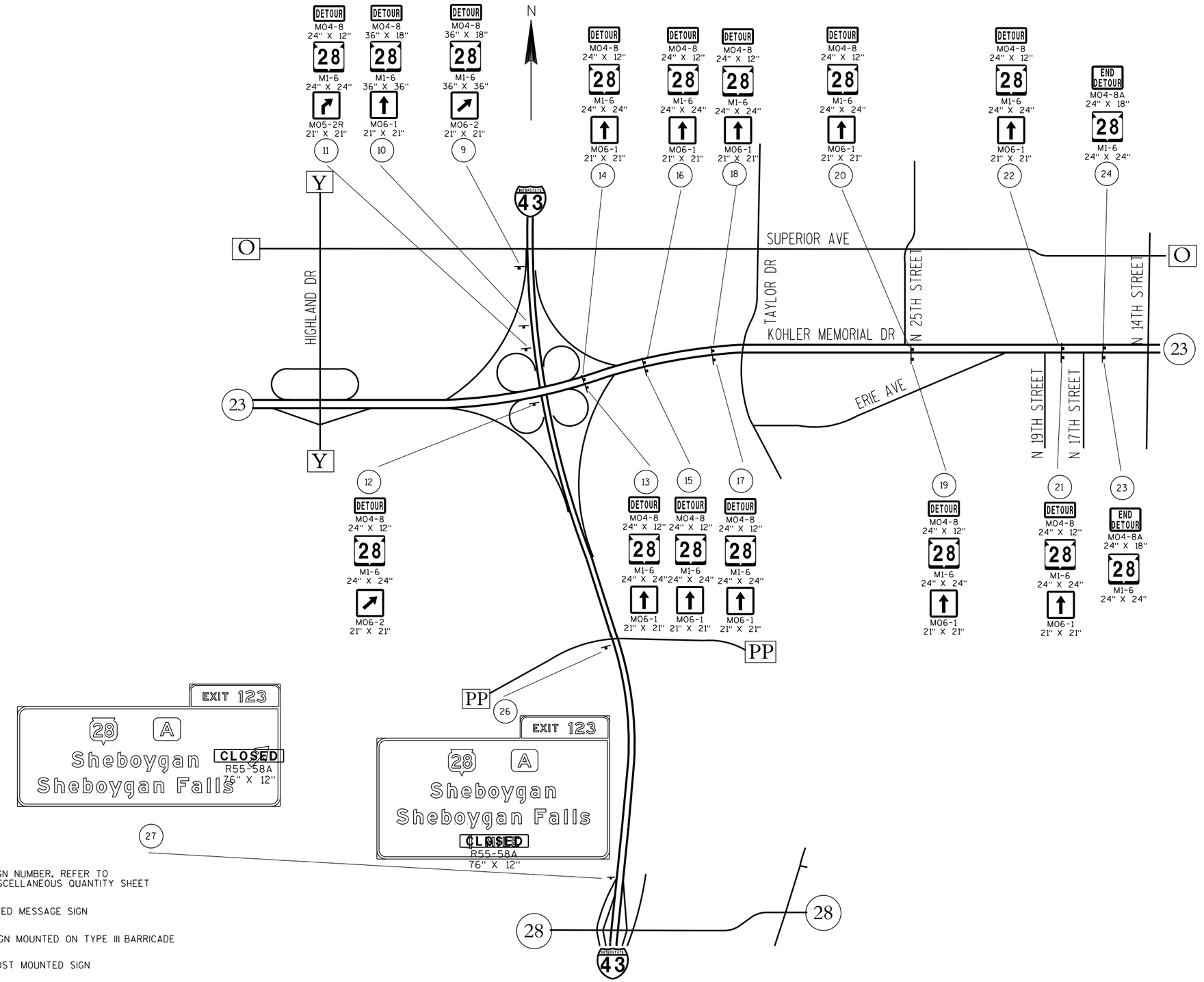
PAGE 1 OF 1

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	RAMP CLOSURE GATES	SHEET 172	E

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PLOT DATE: 7/31/2015
PLOT TIME: 3:27:24 PM
PLOT SCALE: 1:50



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	DETOUR SIGNING DETAIL (SB OFF RAMP CLOSED)	SHEET 173	E



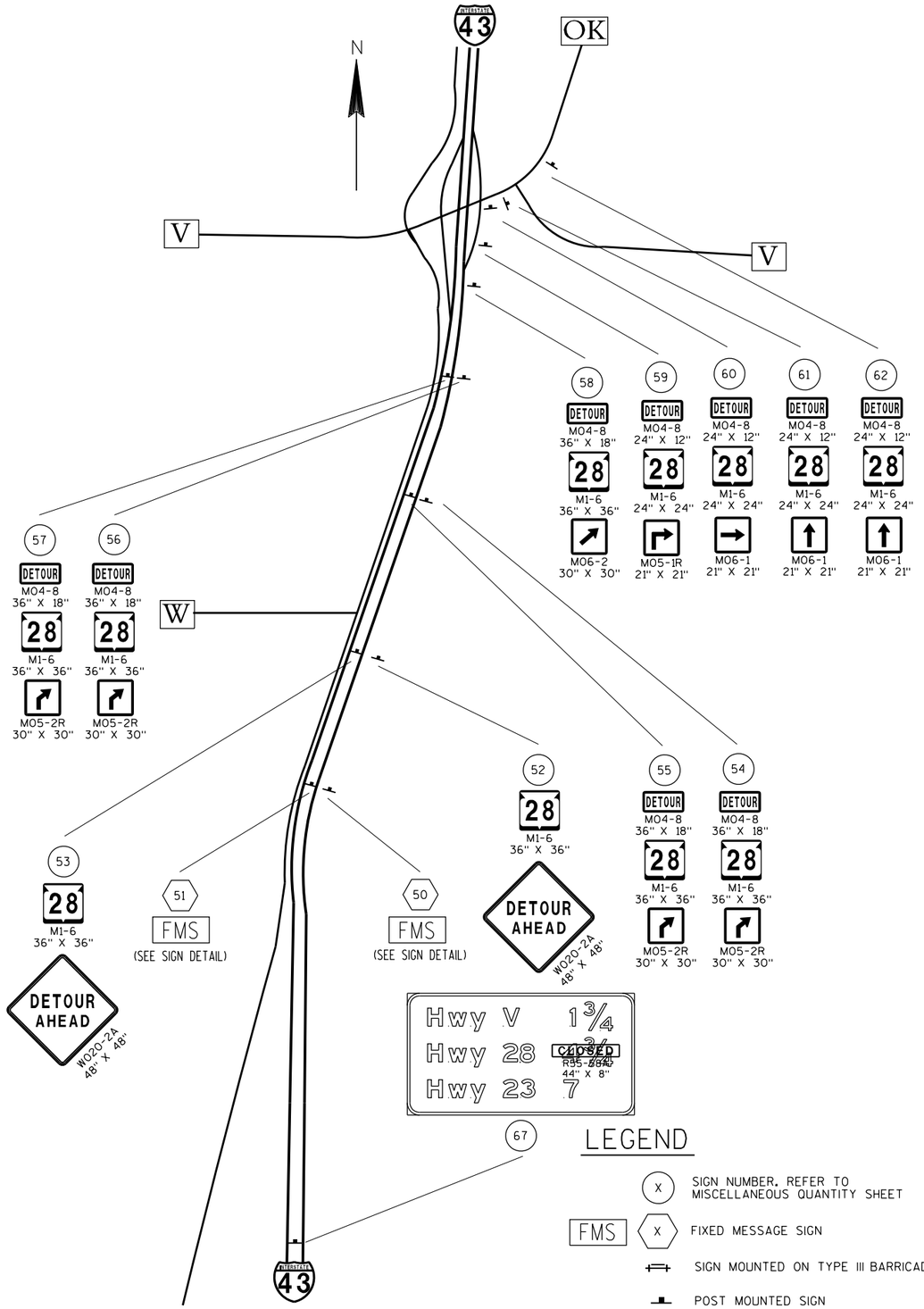
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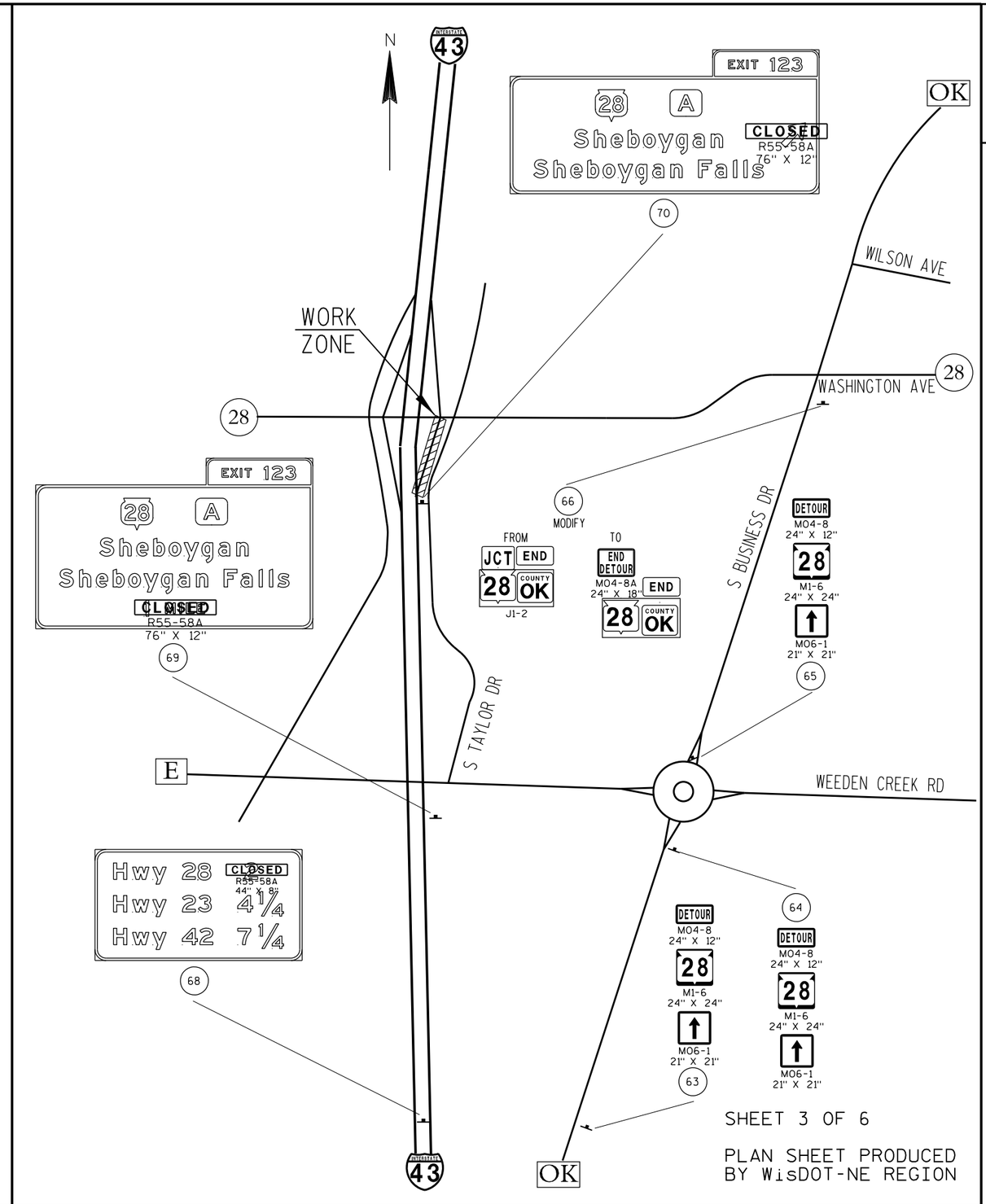
- (X) SIGN NUMBER, REFER TO MISCELLANEOUS QUANTITY SHEET
- FMS (X) FIXED MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

SHEET 2 OF 6

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	DETOUR SIGNING DETAIL (SB OFF RAMP CLOSED)	SHEET 174	E

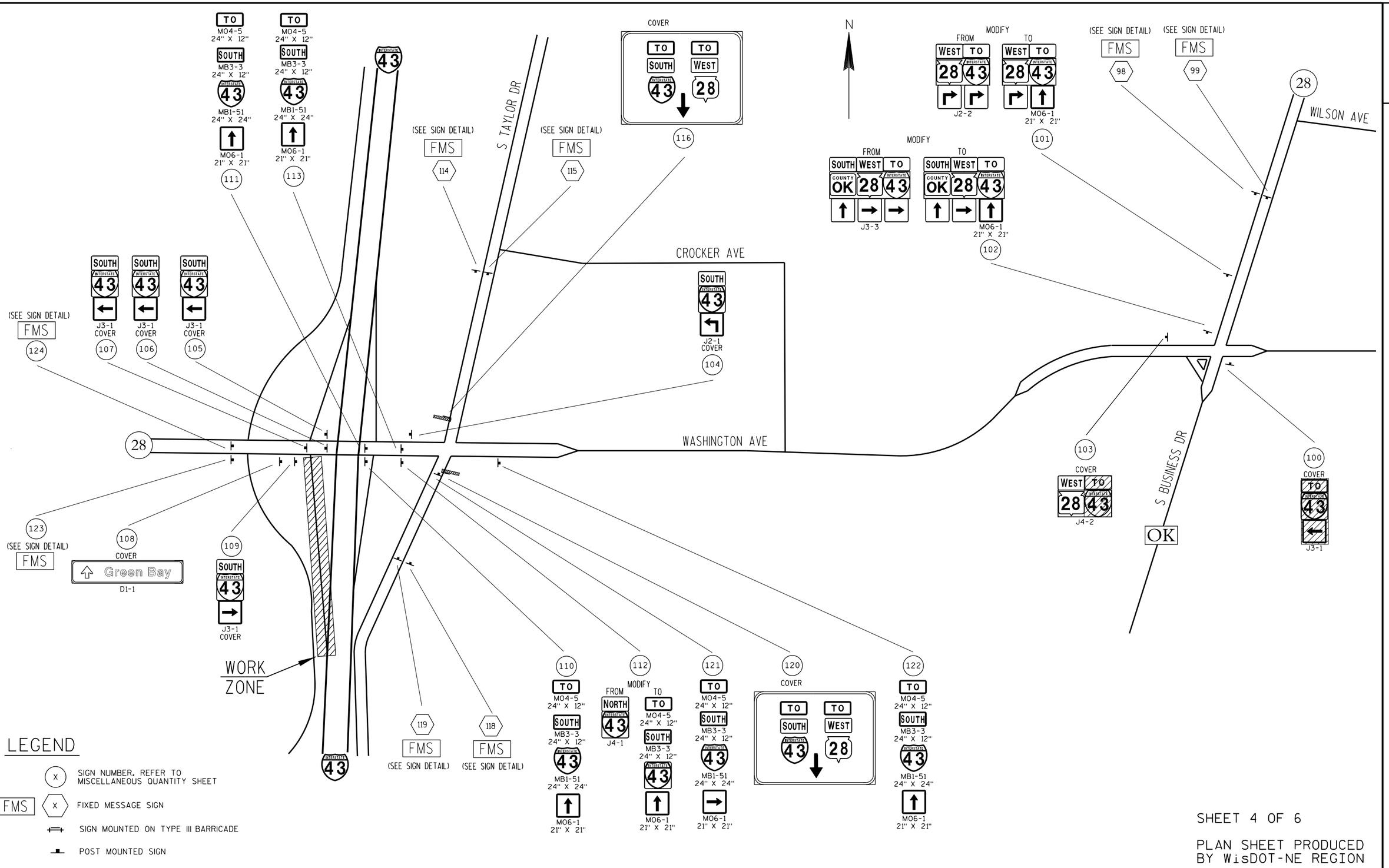




SHEET 3 OF 6

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	DETOUR SIGNING DETAIL (NB OFF RAMP CLOSED)	SHEET 175	E

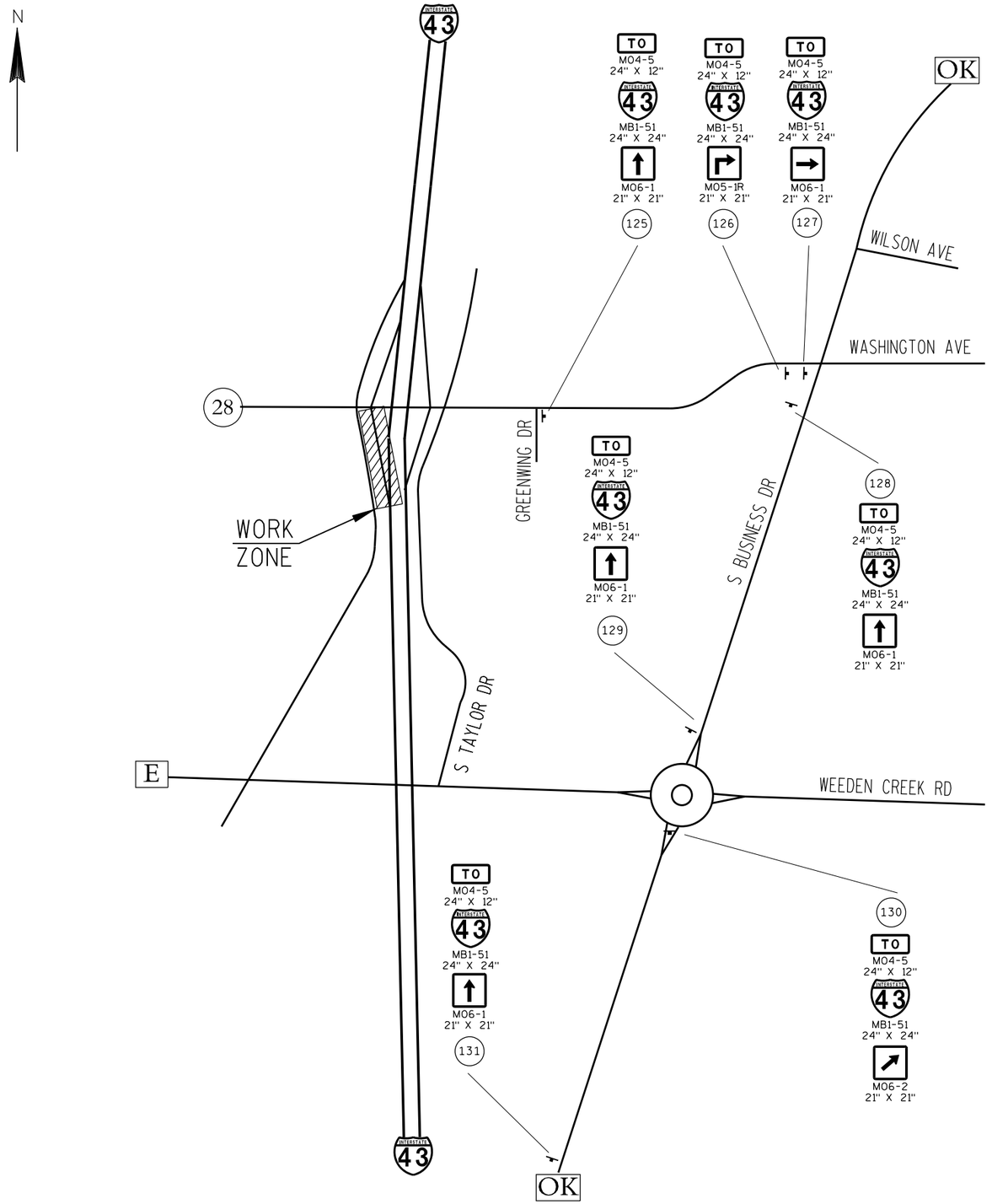


SHEET 4 OF 6

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	DETOUR SIGNING DETAIL (ON RAMP TO SB I43 CLOSED)	SHEET 176 E

2



LEGEND

- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- FMS (X) FIXED MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

SHEET 5 OF 6

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	DETOUR SIGNING DETAIL (ON RAMP TO IH 43 SB CLOSED)	SHEET 177	E

2

N

INTERSTATE 43

163
SINGLE LANE AHEAD
EXPECT DELAYS
G20-56
132" X 36"

164
SINGLE LANE AHEAD
EXPECT DELAYS
G20-56
132" X 36"

CROCKER AVE

S TAYLOR DR

WASHINGTON AVE

GREENWING DR

POND CT

S 32ND ST

28

158
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M05-1R 21" X 21"

157
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M06-1 21" X 21"

162
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M05-1L 21" X 21"

160
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M06-1 21" X 21"

161
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M06-1 21" X 21"

159
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M06-1 21" X 21"

173
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
(SEE SIGN DETAIL)
M06-1 21" X 21"

167
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M05-1R 21" X 21"

168
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M06-1 21" X 21"

169
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M06-1 21" X 21"

166
SINGLE LANE AHEAD
EXPECT DELAYS
G20-56
132" X 36"

165
SINGLE LANE AHEAD
EXPECT DELAYS
G20-56
132" X 36"

170
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M06-1 21" X 21"

171
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M05-1L 21" X 21"

172
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
28 M1-6 24" X 24"
M06-1 21" X 21"

28 M1-6 24" X 24"
M06-4 21" X 21"
154

153
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
(SEE SIGN DETAIL)
M05-1L 21" X 21"

152
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
(SEE SIGN DETAIL)
M06-1 21" X 21"

155
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
(SEE SIGN DETAIL)
M05-1L 21" X 21"

156
ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
(SEE SIGN DETAIL)
M06-1 21" X 21"
150

ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
(SEE SIGN DETAIL)
M06-1 21" X 21"

ALT M04-1A 24" X 12"
TO M04-5 24" X 12"
(SEE SIGN DETAIL)
M05-1R 21" X 21"
151

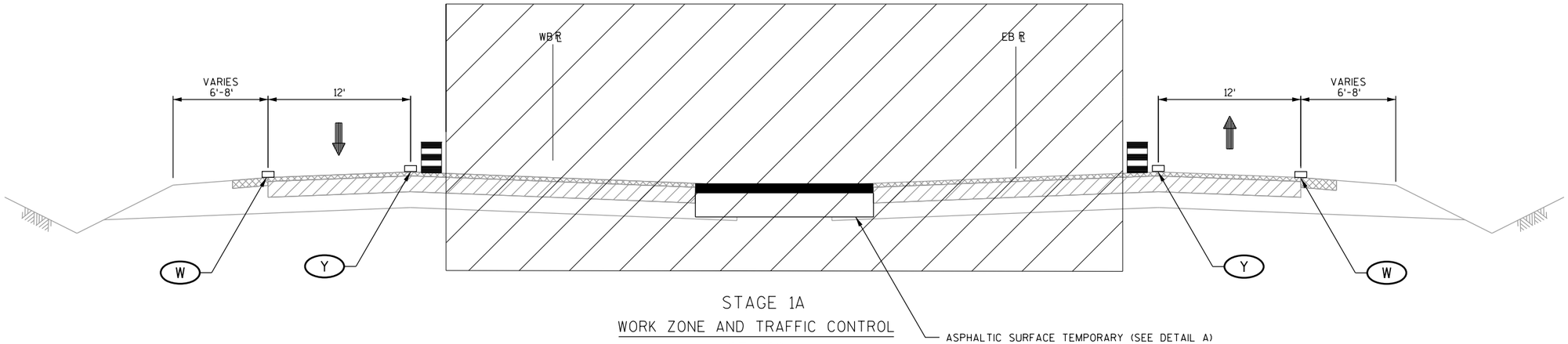
LEGEND

- (X) SIGN NUMBER. REFER TO MISCELLANEOUS QUANTITY SHEET
- FMS (X) FIXED MESSAGE SIGN
- SIGN MOUNTED ON TYPE III BARRICADE
- POST MOUNTED SIGN

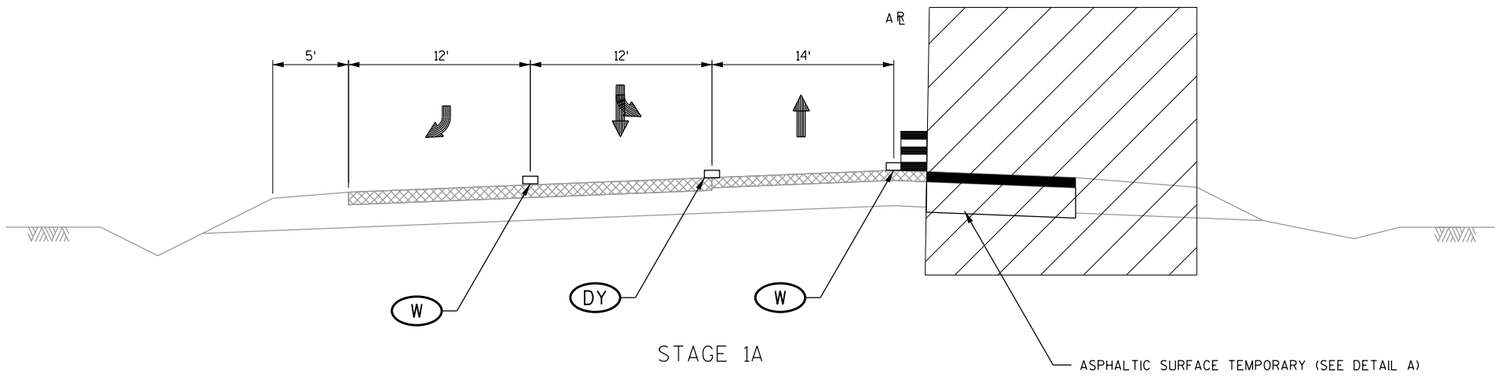
SHEET 6 OF 6

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	DETOUR SIGNING DETAIL (TAYLOR DR - ALTERNATE ROUTE)	SHEET 178	E



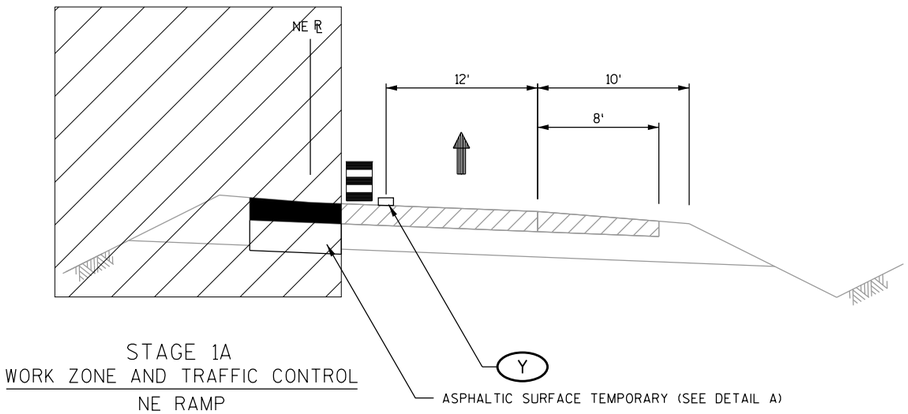
STAGE 1A
WORK ZONE AND TRAFFIC CONTROL
STH 28
MAINLINE



STAGE 1A
WORK ZONE AND TRAFFIC CONTROL
CTH A
STA 246A+34 TO STA 248A+32

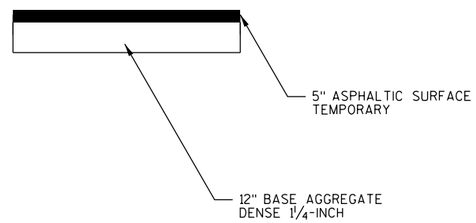
LEGEND

- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- Y — 4" YELLOW
- DY — 4" DOUBLE YELLOW
- W — 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW



STAGE 1A
WORK ZONE AND TRAFFIC CONTROL
NE RAMP
(NB ENT RAMP)

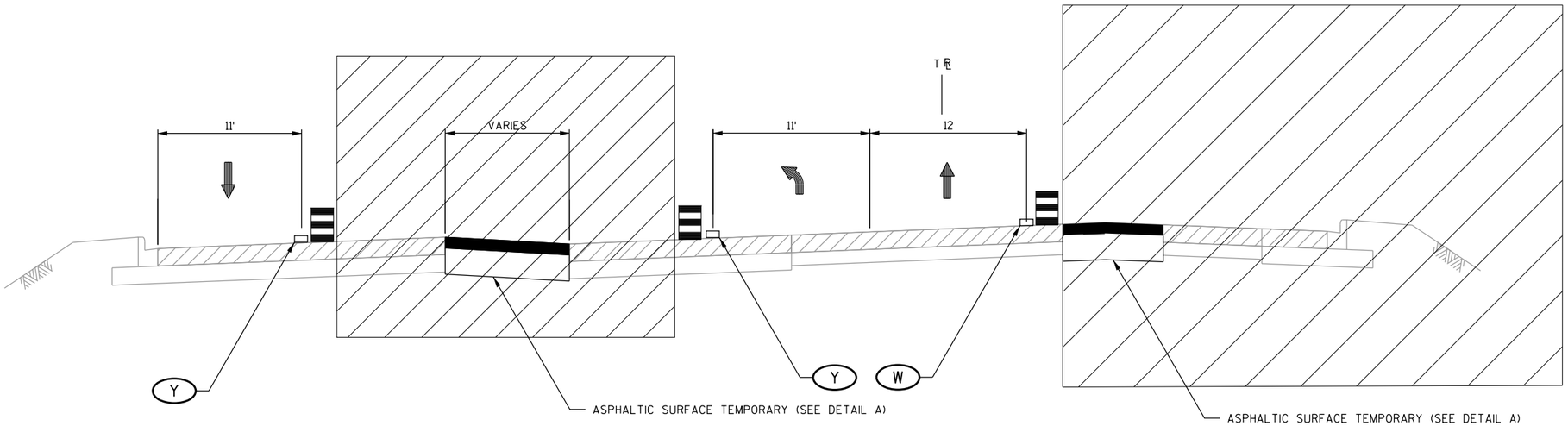
DETAIL A



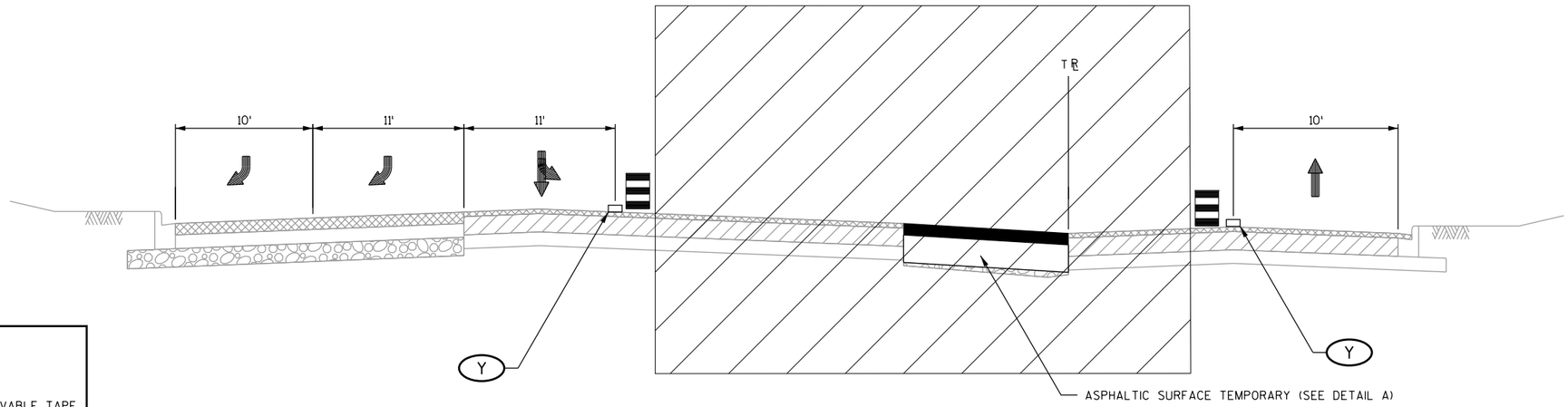
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 179	E

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WISDOT/CADDS SHEET 42



STAGE 1A
WORK ZONE AND TRAFFIC CONTROL
TAYLOR DRIVE
STA 8T+00 TO STA 10T+49

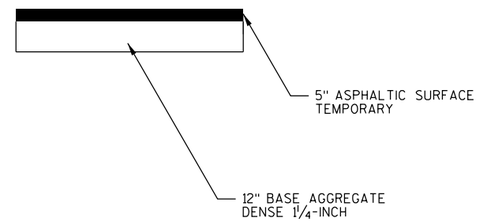


STAGE 1A
WORK ZONE AND TRAFFIC CONTROL
TAYLOR DRIVE
STA 11T+78 TO STA 13T+29

LEGEND

- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- Y — 4" YELLOW
- DY — 4" DOUBLE YELLOW
- W — 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW

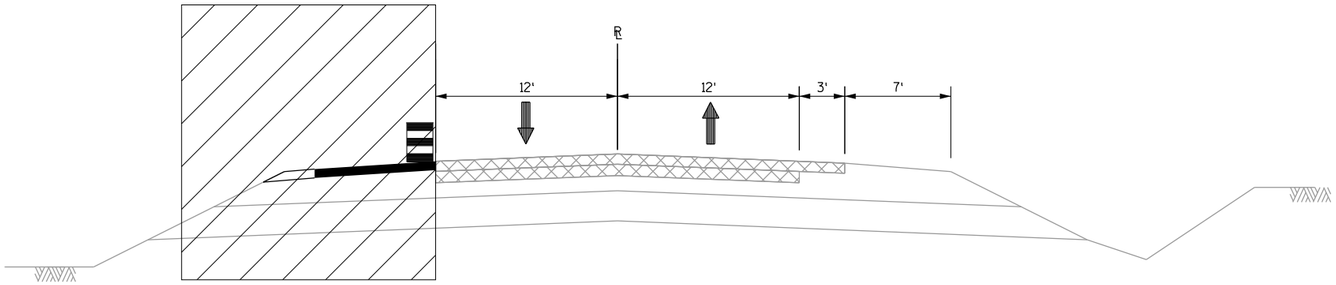
DETAIL A



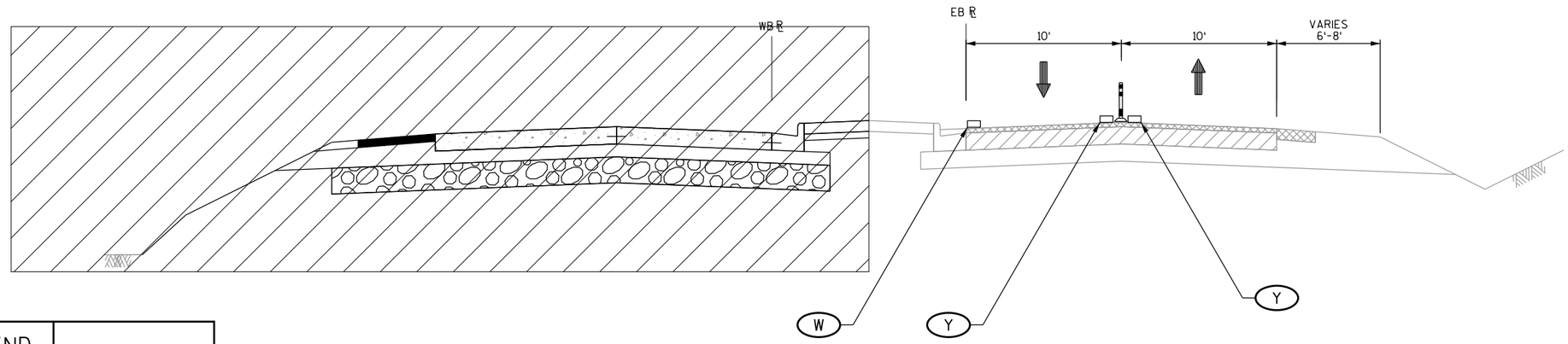
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STAGE 1B
WORK ZONE AND TRAFFIC CONTROL
STH 28
STA 244+94 TO STA 270+64



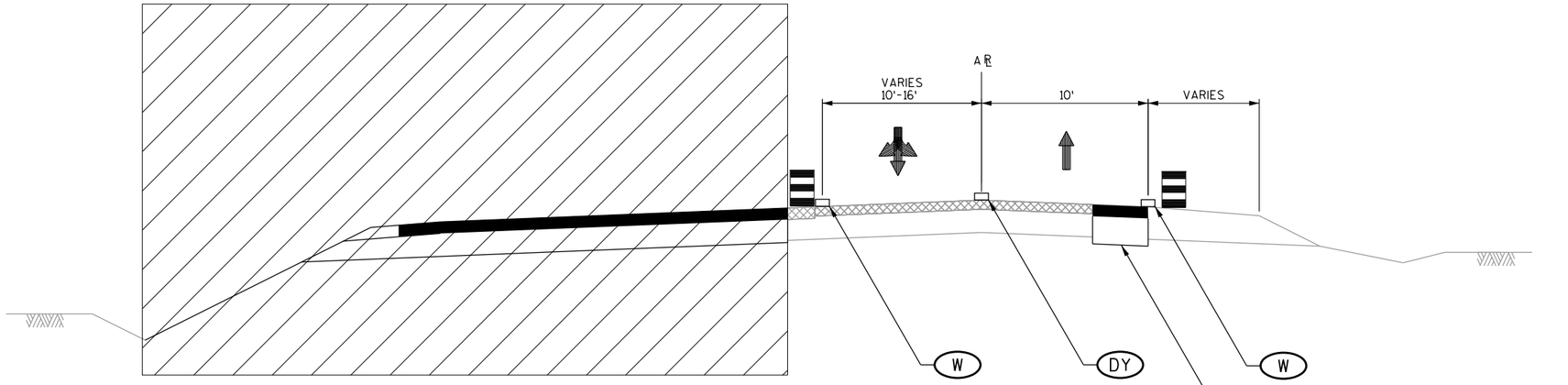
LEGEND

- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- Y — 4" YELLOW
- DY — 4" DOUBLE YELLOW
- W — 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW

STAGE 1B & 1C
WORK ZONE AND TRAFFIC CONTROL
STH 28
MAINLINE

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 181	E

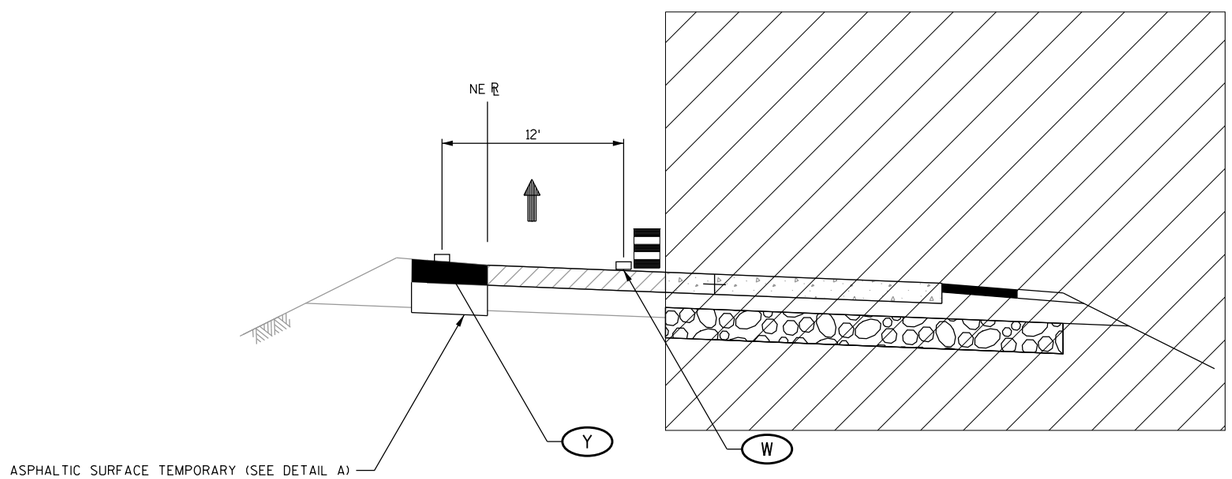
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STAGE 1B
WORK ZONE AND TRAFFIC CONTROL
CTH A
STA 247A+31 TO STA 248A+32

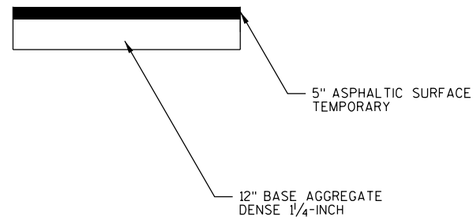
LEGEND

- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- Y — 4" YELLOW
- DY — 4" DOUBLE YELLOW
- W — 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW



STAGE 1B
WORK ZONE AND TRAFFIC CONTROL
NE RAMP
(NB ENT RAMP)

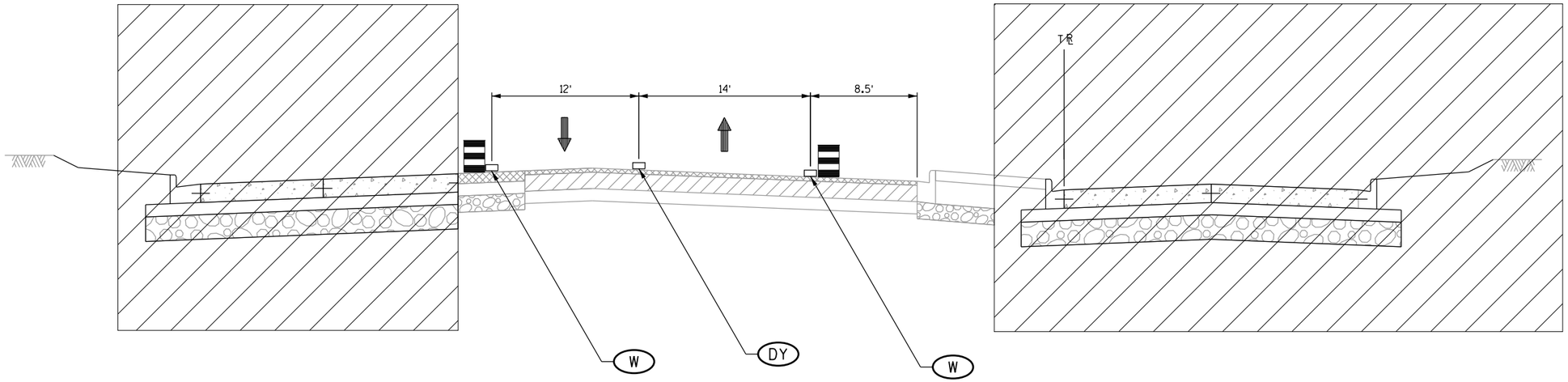
DETAIL A



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 182	E

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WISDOT/CADDS SHEET 42

2

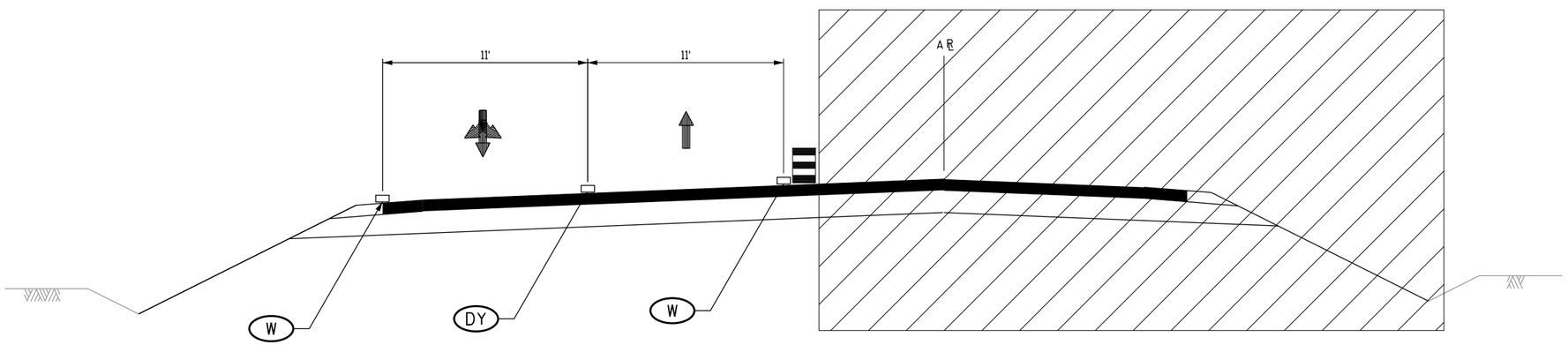


STAGE 1B

WORK ZONE AND TRAFFIC CONTROL

TAYLOR DRIVE

STA 11T+78 TO STA 13T+29



STAGE 1C

WORK ZONE AND TRAFFIC CONTROL

CTH A

STA 247A+31 TO STA 248A+32

LEGEND

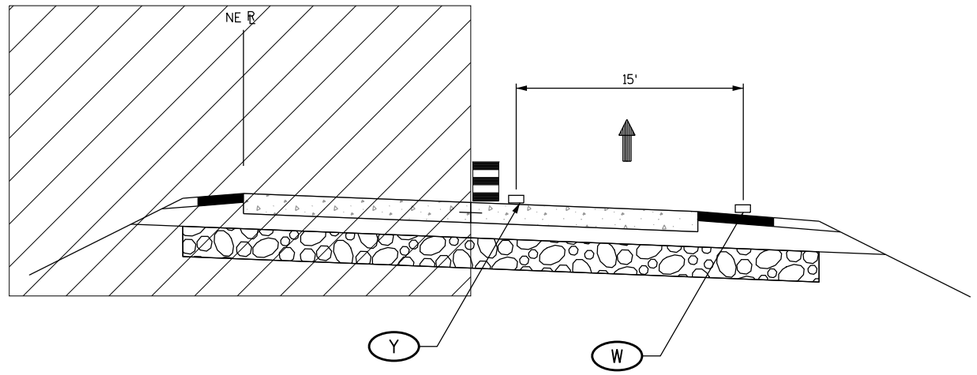
- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- Y — 4" YELLOW
- DY — 4" DOUBLE YELLOW
- W — 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET	E

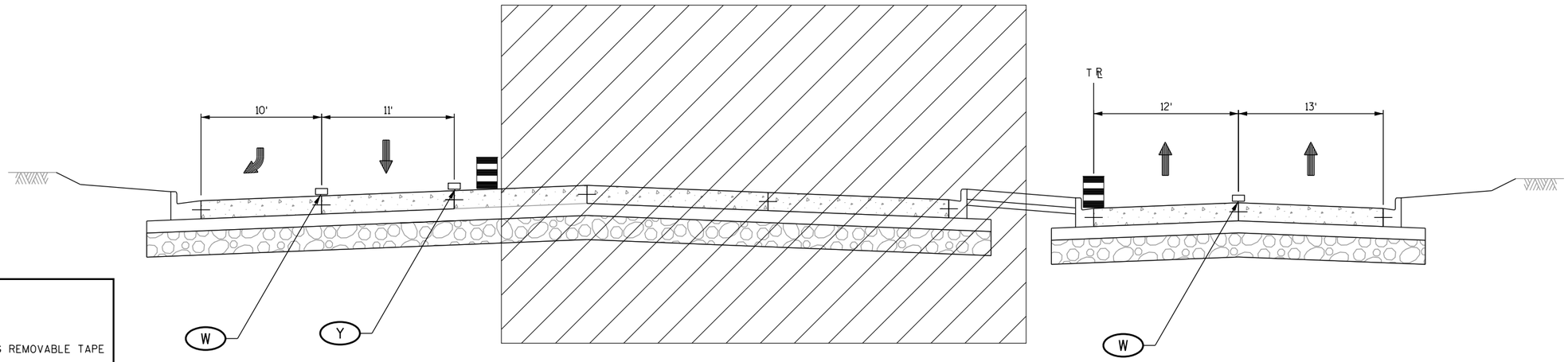
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WISDOT/CADDS SHEET 42

2



STAGE 1C
WORK ZONE AND TRAFFIC CONTROL
NE RAMP
(NB ENT RAMP)



STAGE 1C
WORK ZONE AND TRAFFIC CONTROL
TAYLOR DRIVE
STA 11T+78 TO STA 13T+29

LEGEND

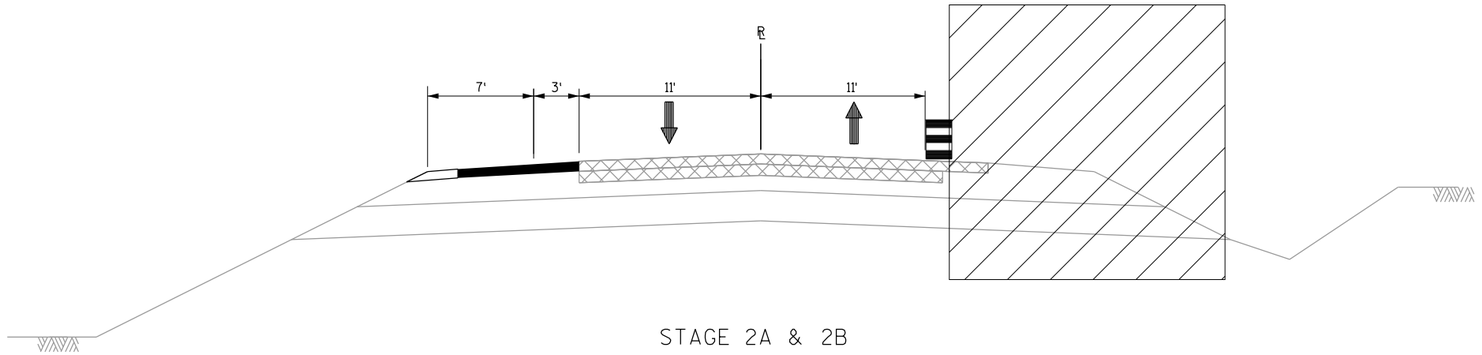
- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- Y — 4" YELLOW
- DY — 4" DOUBLE YELLOW
- W — 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 184	E

2

LEGEND

- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- (Y) 4" YELLOW
- (DY) 4" DOUBLE YELLOW
- (W) 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW

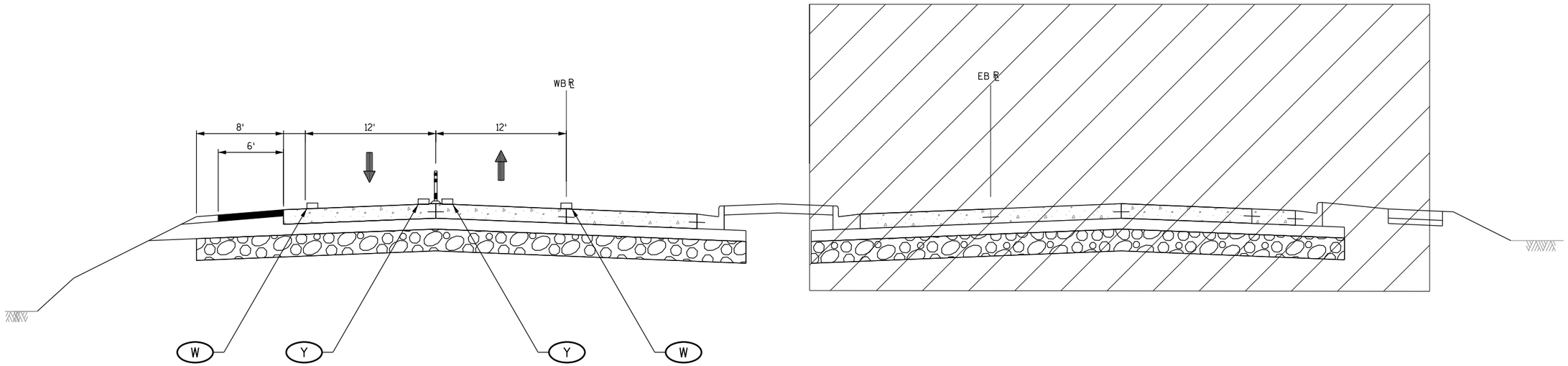


STAGE 2A & 2B

WORK ZONE AND TRAFFIC CONTROL

STH 28

STA 244+94 TO STA 270+64



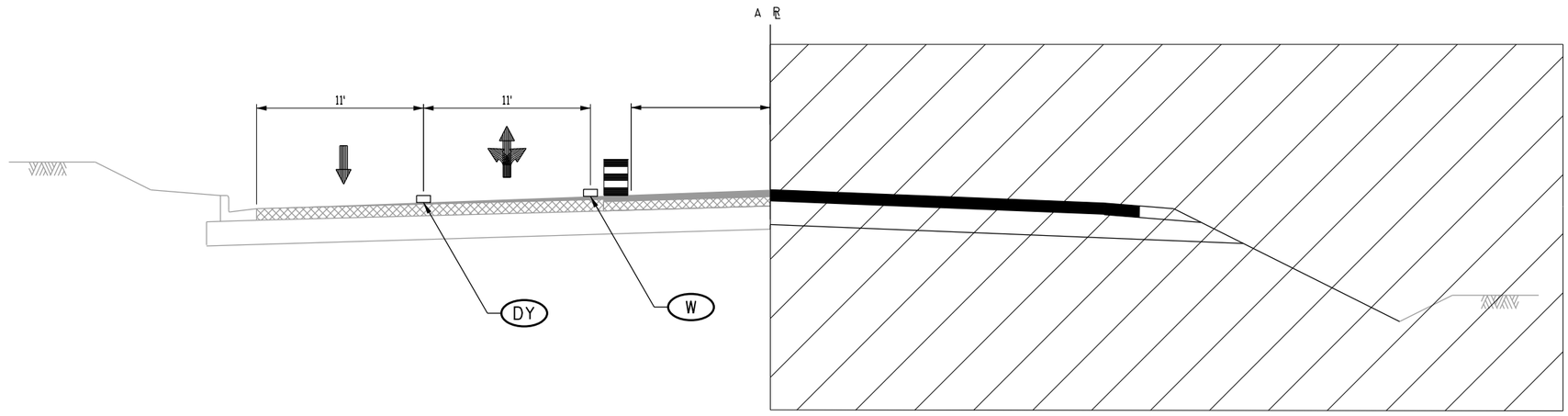
STAGE 2A, 2B, and 2C

WORK ZONE AND TRAFFIC CONTROL

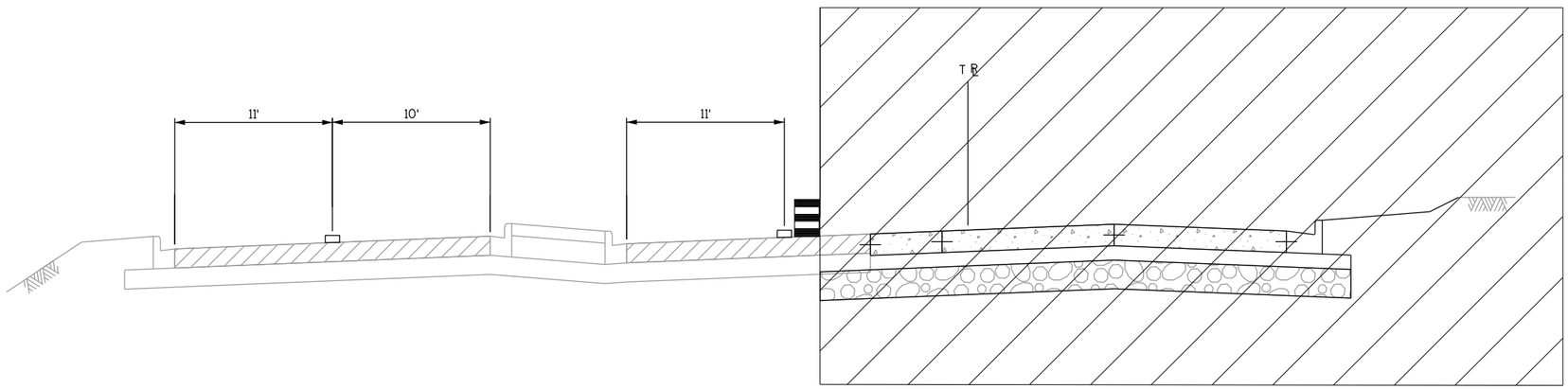
STH 28

MAINLINE

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 185	E



STAGE 2A AND 2B
WORK ZONE AND TRAFFIC CONTROL
CTH A-SOUTH LEG



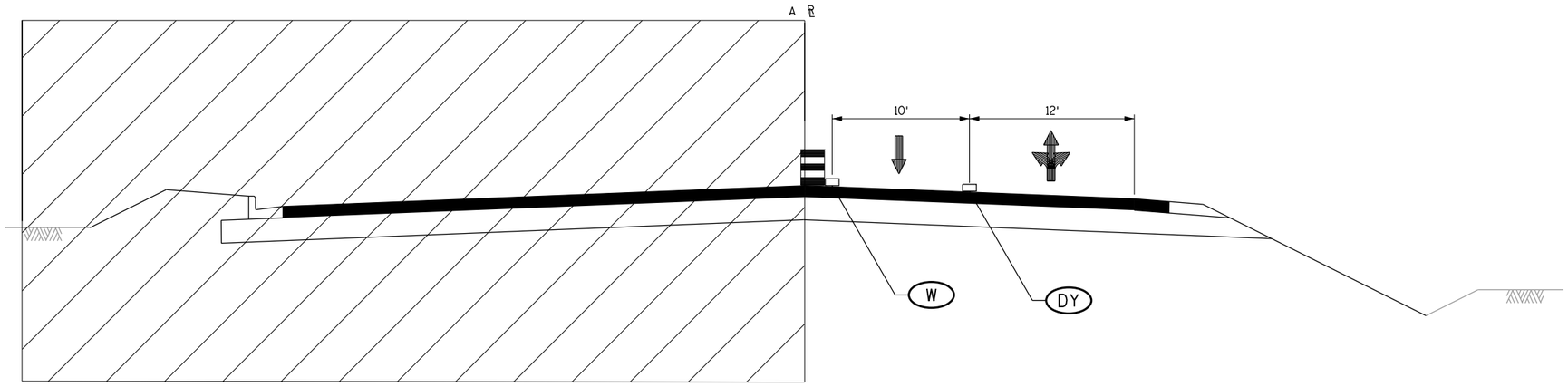
STAGE 2A AND 2B
WORK ZONE AND TRAFFIC CONTROL
TAYLOR DR.
STA. 10T+49 TO STA. 11T+78

LEGEND

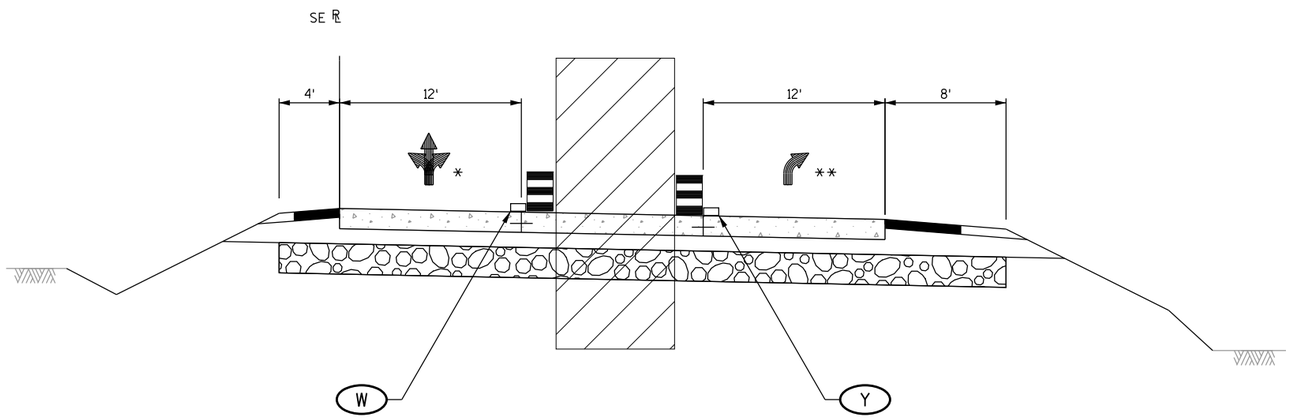
- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- Y — 4" YELLOW
- DY — 4" DOUBLE YELLOW
- W — 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 186	E

2



STAGE 2C
WORK ZONE AND TRAFFIC CONTROL
CTH A-SOUTH LEG



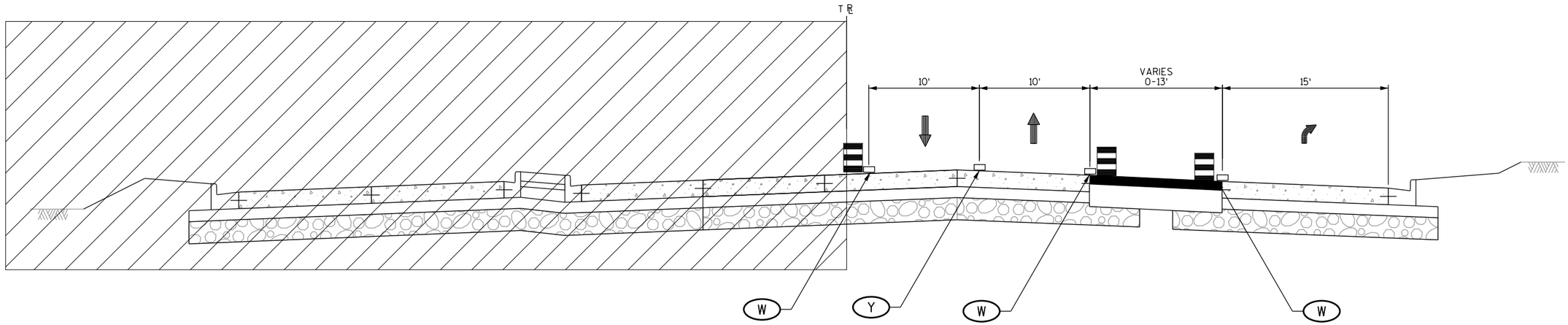
STAGE 2C
WORK ZONE AND TRAFFIC CONTROL
SE RAMP
(NB EXIT RAMP)

* RIGHT TURN FOR EB STH 28
** RIGHT TURN TO TAYLOR ONLY

LEGEND

- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- Y — 4" YELLOW
- DY — 4" DOUBLE YELLOW
- W — 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 187	E



STAGE 2C

WORK ZONE AND TRAFFIC CONTROL

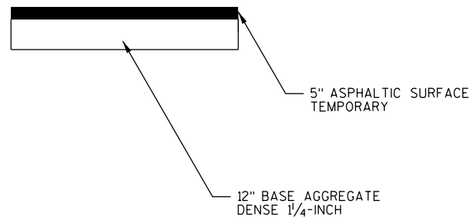
TAYLOR DRIVE

STA 10T+49 TO STA 11T+78

LEGEND

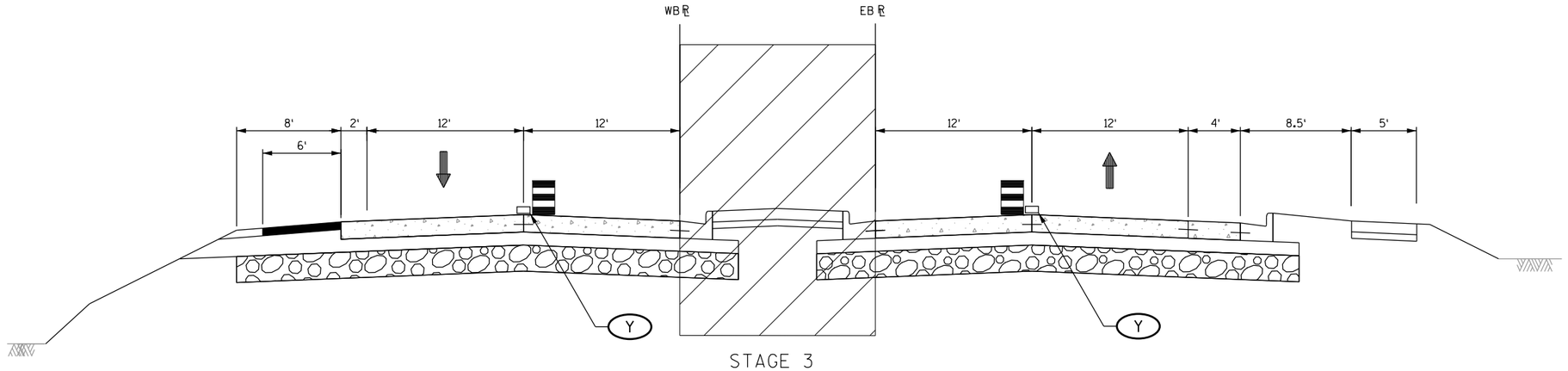
- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- (Y) 4" YELLOW
- (DY) 4" DOUBLE YELLOW
- (W) 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW

DETAIL A



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 188	E

2

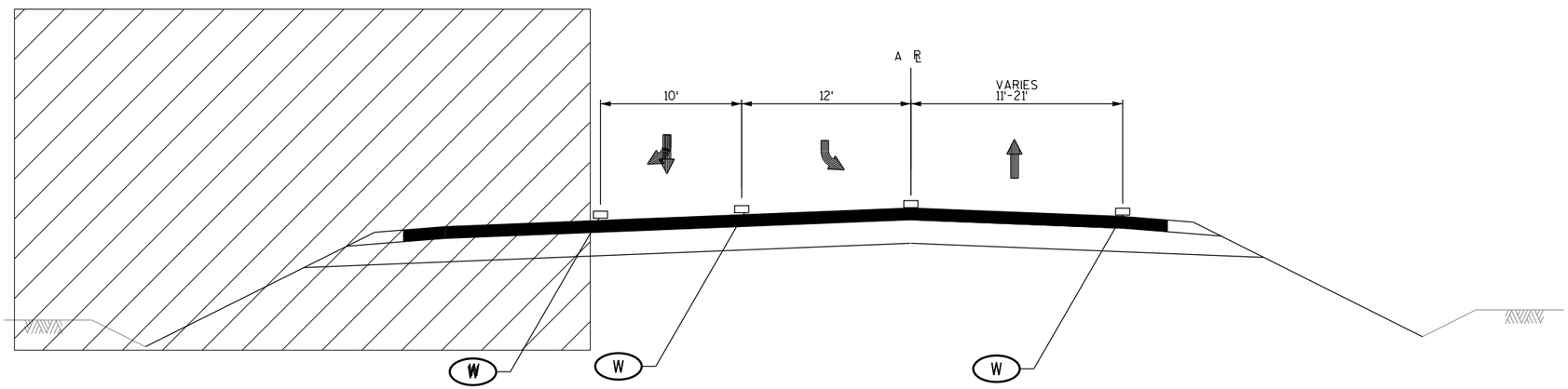


STAGE 3

WORK ZONE AND TRAFFIC CONTROL

STH 28

MAINLINE



STAGE 3

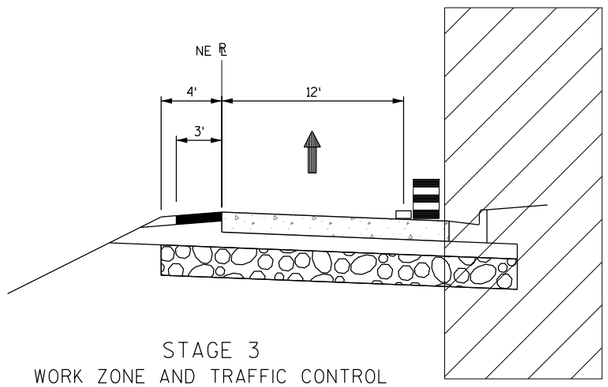
WORK ZONE AND TRAFFIC CONTROL

CTH A

STA 247+31 A TO STA 248+41 A

LEGEND

- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- Y — 4" YELLOW
- DY — 4" DOUBLE YELLOW
- W — 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW



STAGE 3

WORK ZONE AND TRAFFIC CONTROL

NE RAMP

(NB ENT RAMP)

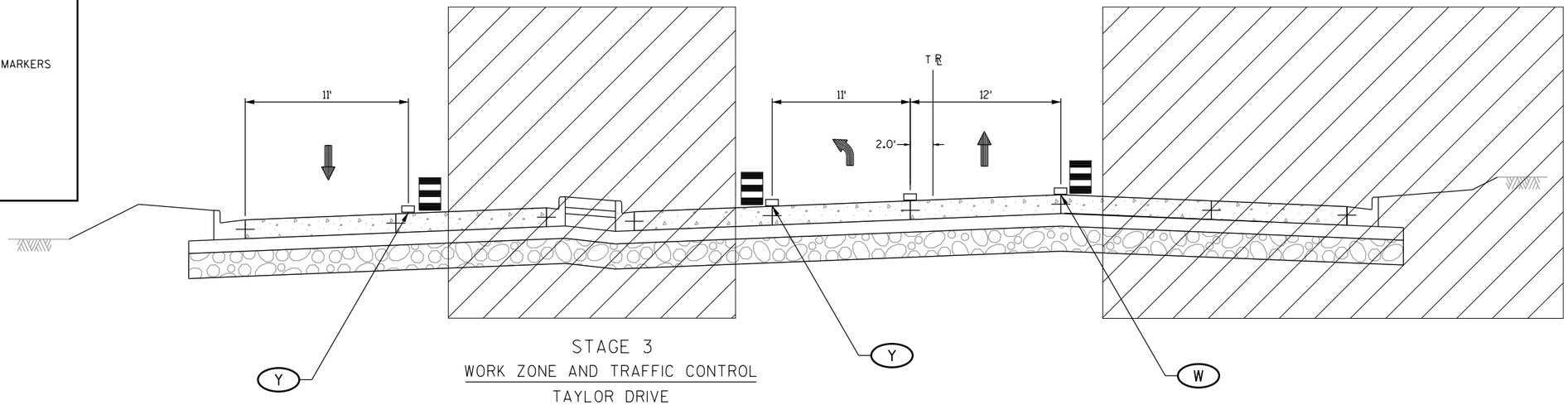
STA. 245NE+95 TO STA. 246NE+56

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 189	E

2

LEGEND

- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- (Y) 4" YELLOW
- (DY) 4" DOUBLE YELLOW
- (W) 4" WHITE
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW

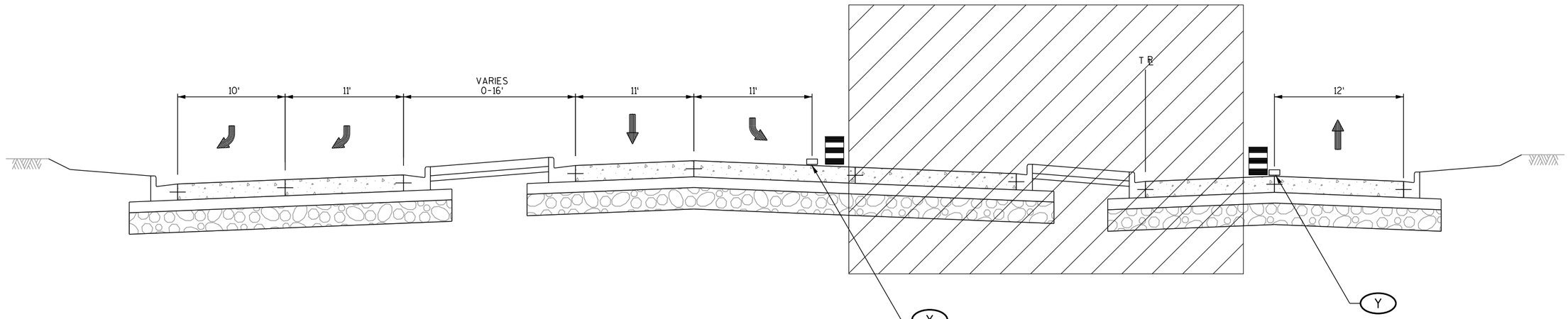


STAGE 3

WORK ZONE AND TRAFFIC CONTROL

TAYLOR DRIVE

STA 8T+13 TO STA 11T+07



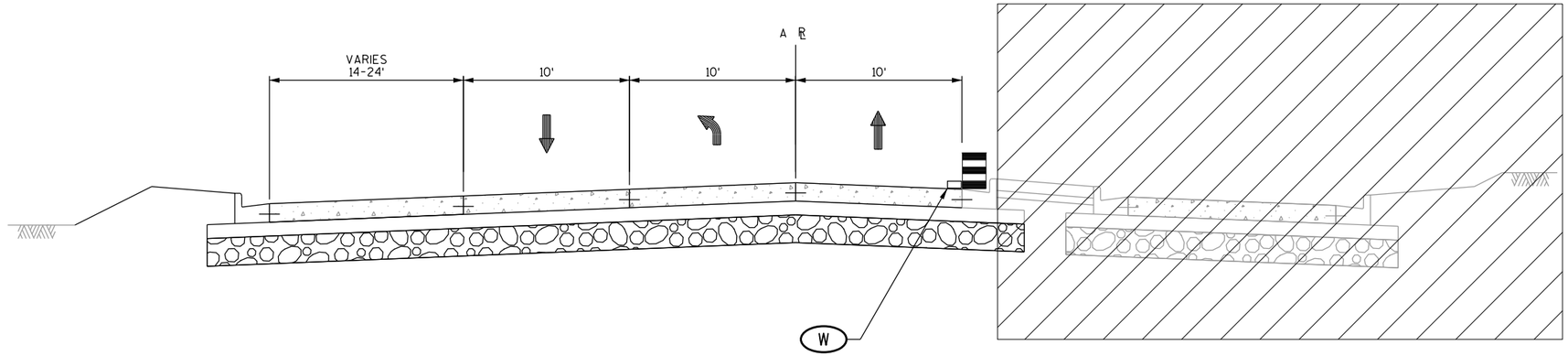
STAGE 3

WORK ZONE AND TRAFFIC CONTROL

TAYLOR DRIVE

STA. 11T+78 TO STA. 13T+29

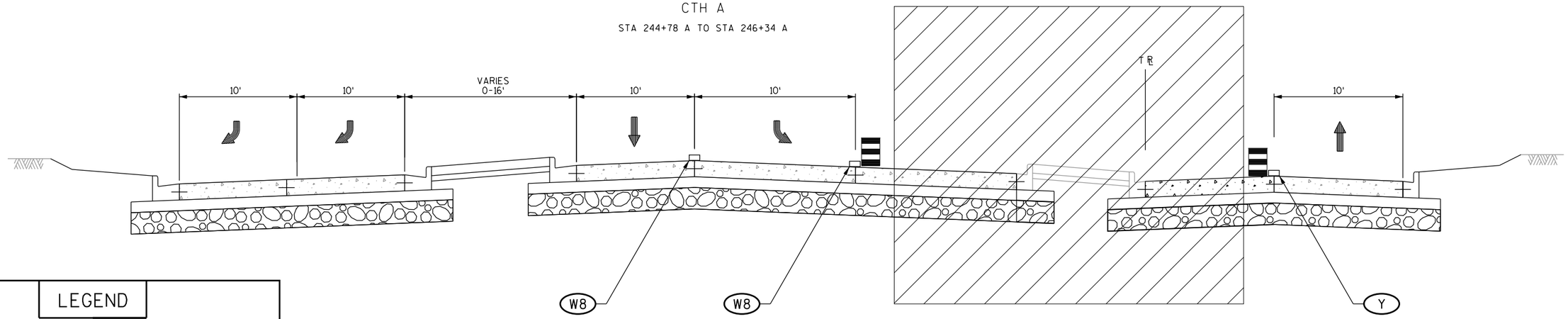
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 190	E



STAGE 3A
WORK ZONE AND TRAFFIC CONTROL

CTH A

STA 244+78 A TO STA 246+34 A



STAGE 3A
WORK ZONE AND TRAFFIC CONTROL

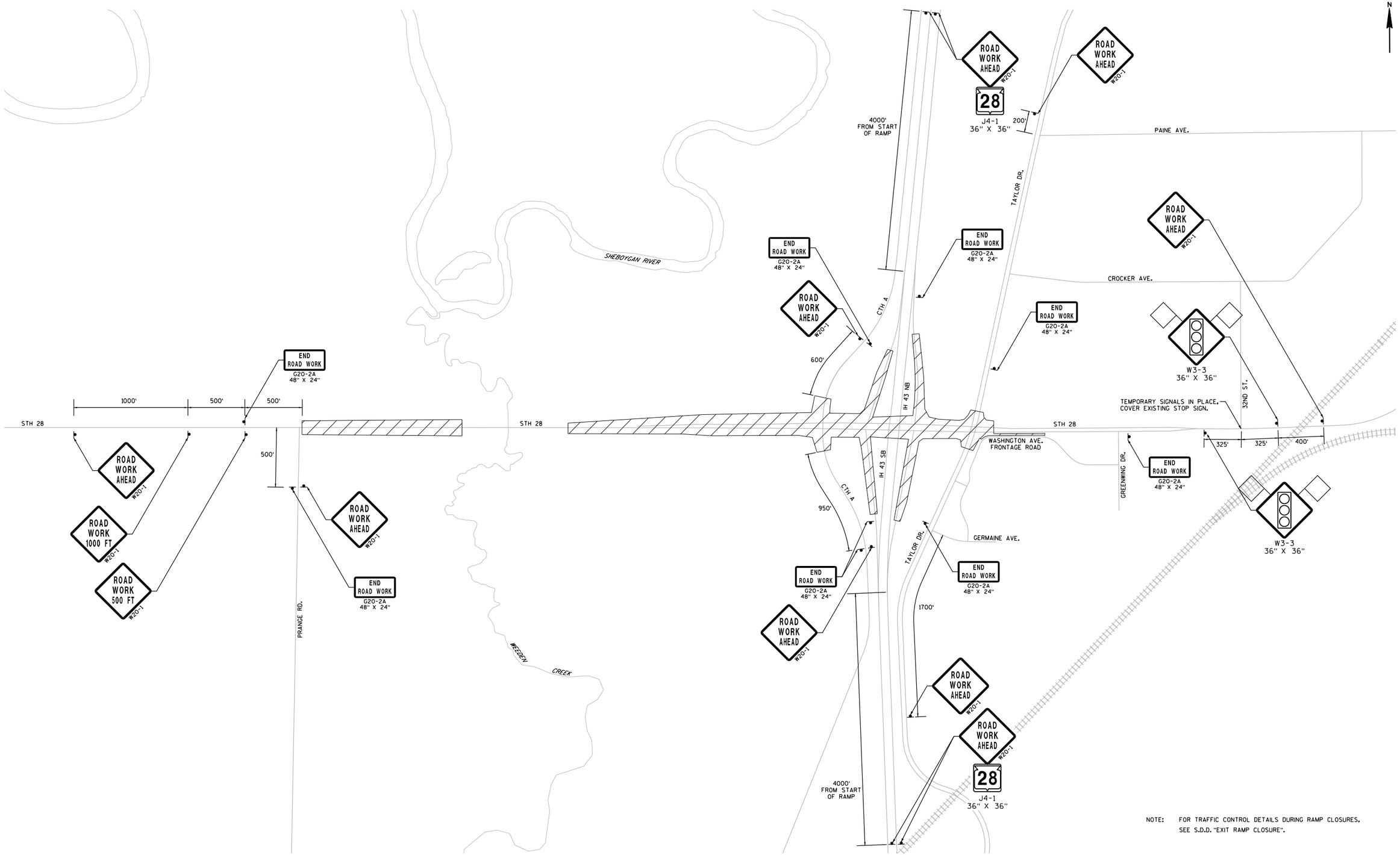
TAYLOR DRIVE

STA 11+78 T TO STA 13+29 T

LEGEND

- REMOVING PAVEMENT MARKINGS
- TEMPORARY PAVEMENT MARKING
- TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
- TEMPORARY PAVEMENT MARKING REFLECTIVE TAPE
- TEMPORARY RAISED PAVEMENT MARKERS
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKERS
- WORK ZONE
- DIRECTION OF TRAFFIC FLOW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL TYPICAL SECTIONS	SCALE: NTS	SHEET 191	E

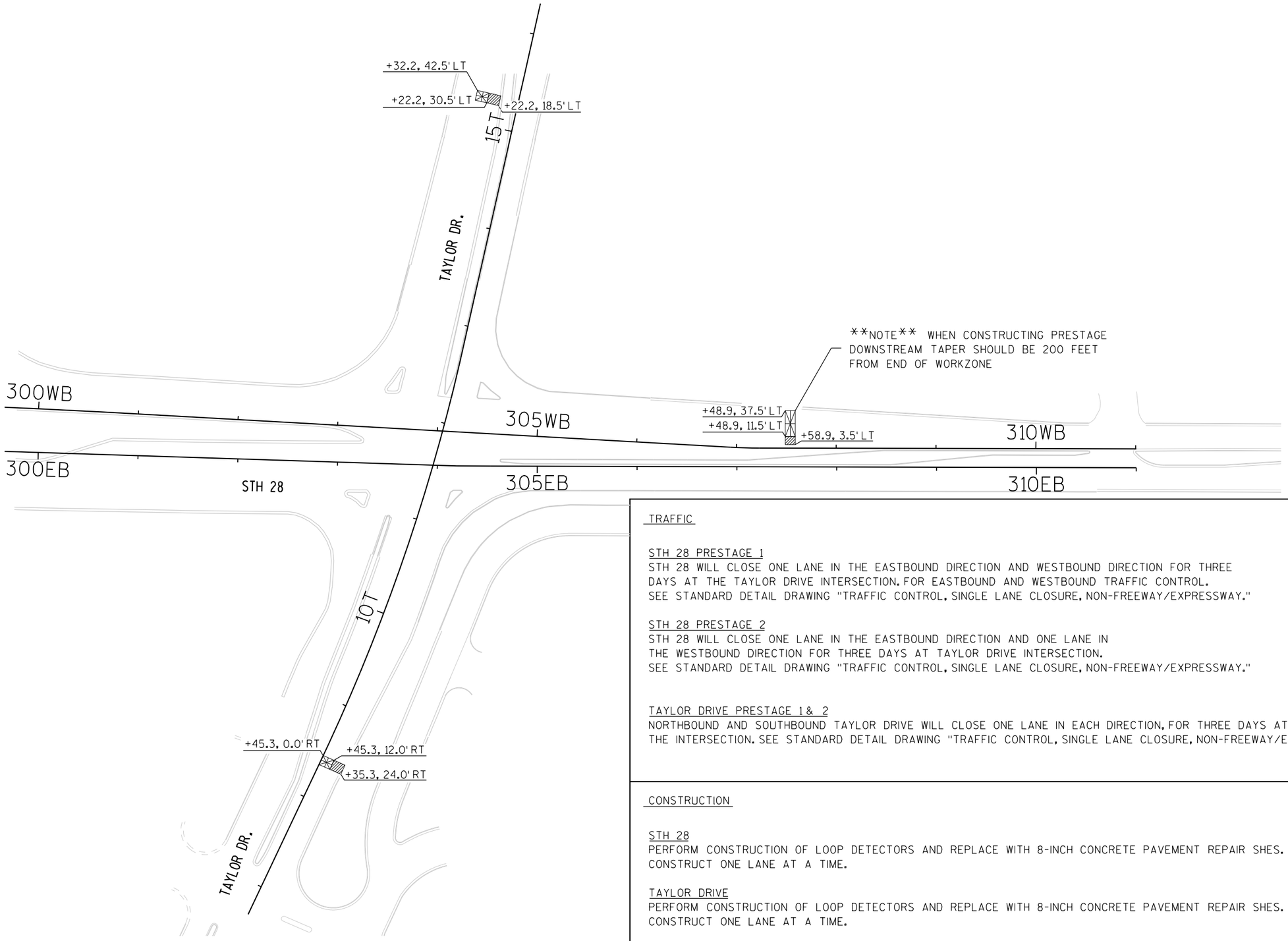


NOTE: FOR TRAFFIC CONTROL DETAILS DURING RAMP CLOSURES, SEE S.D.D. "EXIT RAMP CLOSURE".

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL DETAIL: ADVANCED WARNING SIGNS	SHEET 192	E

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WISDOT/CADDS SHEET 42

2



LEGEND

PRESTAGE 1

PRESTAGE 2

TRAFFIC

STH 28 PRESTAGE 1
STH 28 WILL CLOSE ONE LANE IN THE EASTBOUND DIRECTION AND WESTBOUND DIRECTION FOR THREE DAYS AT THE TAYLOR DRIVE INTERSECTION. FOR EASTBOUND AND WESTBOUND TRAFFIC CONTROL. SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY."

STH 28 PRESTAGE 2
STH 28 WILL CLOSE ONE LANE IN THE EASTBOUND DIRECTION AND ONE LANE IN THE WESTBOUND DIRECTION FOR THREE DAYS AT TAYLOR DRIVE INTERSECTION. SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY."

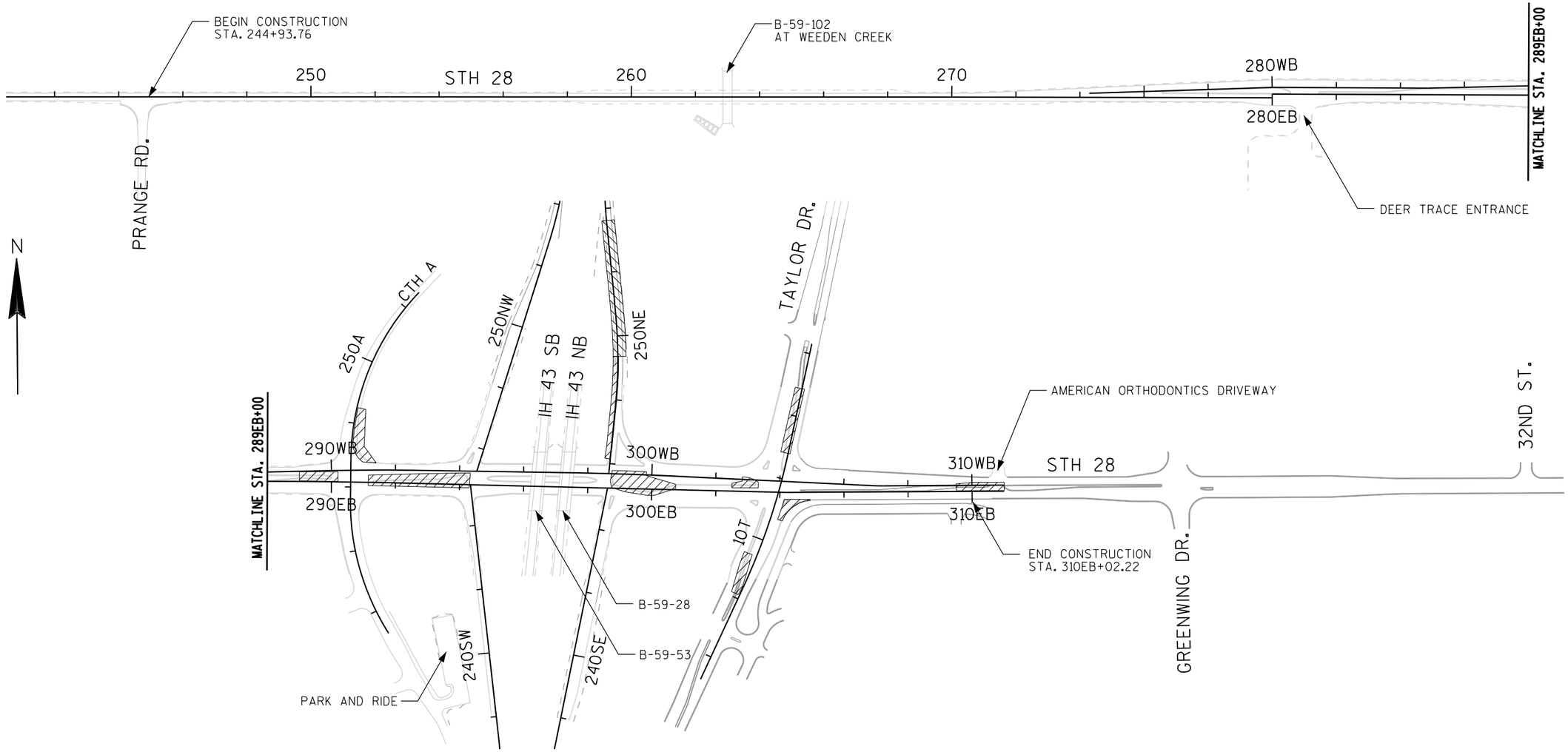
TAYLOR DRIVE PRESTAGE 1 & 2
NORTHBOUND AND SOUTHBOUND TAYLOR DRIVE WILL CLOSE ONE LANE IN EACH DIRECTION, FOR THREE DAYS AT THE INTERSECTION. SEE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY."

CONSTRUCTION

STH 28
PERFORM CONSTRUCTION OF LOOP DETECTORS AND REPLACE WITH 8-INCH CONCRETE PAVEMENT REPAIR SHES. CONSTRUCT ONE LANE AT A TIME.

TAYLOR DRIVE
PERFORM CONSTRUCTION OF LOOP DETECTORS AND REPLACE WITH 8-INCH CONCRETE PAVEMENT REPAIR SHES. CONSTRUCT ONE LANE AT A TIME.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PRESTAGE 1 AND 2	SHEET 193	E



TRAFFIC

STH 28
STH 28 REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION USING EXISTING OUTSIDE LANES FROM THE WEST END OF THE 4-LANE SECTION TO GREENWING DRIVE. WESTBOUND STH 28 INSIDE LEFT TURN LANE AT CTH A CLOSED, AND LEFT TURNS RESTRICTED TO ONE LANE. EASTBOUND STH 28 INSIDE LEFT TURN LANE AT TAYLOR DRIVE CLOSED, AND LEFT TURNS RESTRICTED TO 1-LANE. EASTBOUND STH 28 LEFT TURN LANE AT AMERICAN ORTHODONTICS DRIVEWAY CLOSED.

IH 43 RAMPS
NORTHBOUND ON-RAMP TO IH 43 CLOSED BETWEEN 6:00 PM AND 6:00 AM FOR A MAXIMUM OF TWO NIGHTS. NORTHBOUND ON-RAMP INSIDE SHOULDER CLOSED.

TAYLOR DRIVE
NORTHBOUND TAYLOR DRIVE RESTRICTED TO ONLY ONE LEFT TURN LANE SOUTH OF STH 28, AND RESTRICTED TO 1-LANE NORTHBOUND TRAFFIC IN THE OUTSIDE LANE NORTH OF STH 28. NORTHBOUND TAYLOR DRIVE RIGHT TURN LANE AT STH 28 CLOSED WITH TURNS RESTRICTED. SOUTHBOUND TAYLOR DRIVE LEFT TURN LANE NORTH OF STH 28 CLOSED AND COMBINED WITH THROUGH LANE. SOUTHBOUND TAYLOR DRIVE RESTRICTED TO 1-LANE SOUTHBOUND TRAFFIC IN THE OUTSIDE LANE SOUTH OF STH 28. ALTERNATE ROUTE IN PLACE.

CTH A
CTH A SOUTHBOUND LEFT TURN LANE CLOSED NORTH OF STH 28 AND COMBINED WITH THROUGH LANE. NORTHBOUND CTH A TRAFFIC NORTH OF STH 28 SHIFTED TO EXISTING SOUTHBOUND LEFT TURN LANE.

CONSTRUCTION

STH 28
PERFORM TEMPORARY PAVEMENT CONSTRUCTION IN THE STH 28 CENTER MEDIAN WEST OF CTH A, BETWEEN CTH A AND THE SOUTHBOUND IH 43 RAMPS, EAST OF THE NORTHBOUND IH 43 RAMPS, WEST OF TAYLOR DRIVE, AND AT THE AMERICAN ORTHODONTICS DRIVEWAY. INSTALL TEMPORARY SIGNALS AT THE 32ND STREET INTERECTION, EAST OF THE PROJECT LIMITS.

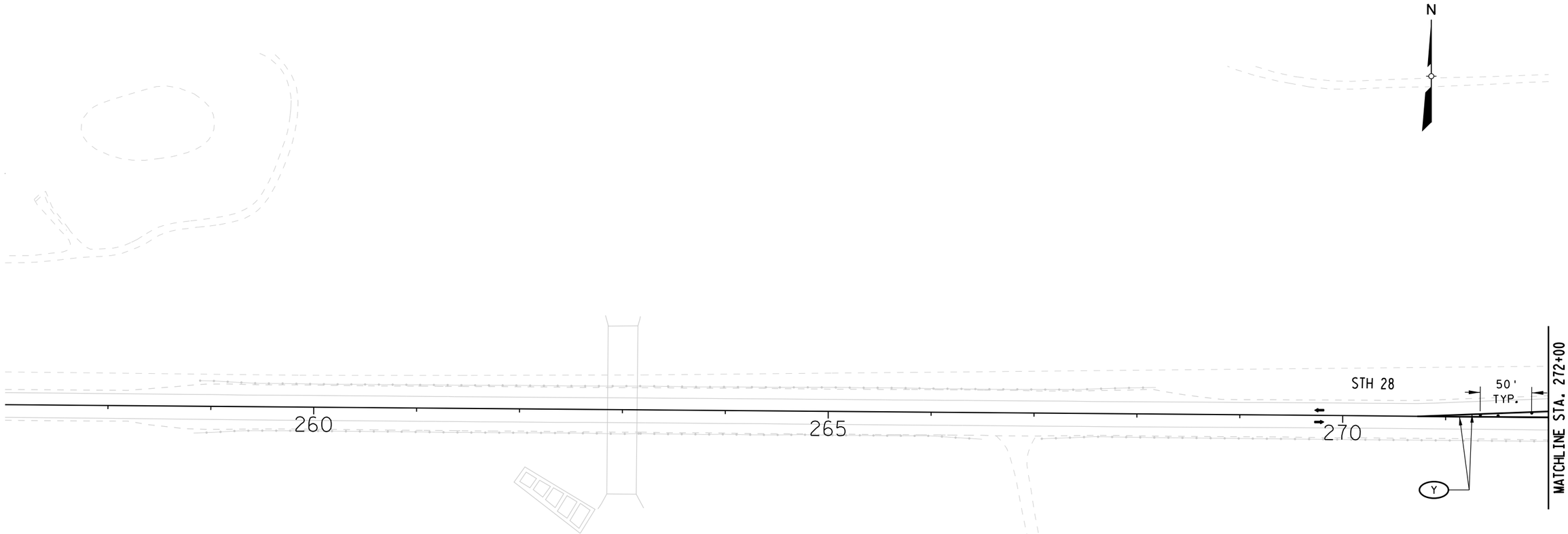
IH 43 RAMPS
PERFORM TEMPORARY SHOULDER WIDENING ON THE WEST PORTION OF THE IH 43 NORTHBOUND ON-RAMP. CONSTRUCT MILL AND RESURFACE OF THE NORTHERN LIMITS OF THE IH 43 NORTHBOUND ON-RAMP.

TAYLOR DRIVE
PERFORM TEMPORARY PAVEMENT CONSTRUCTION IN THE TAYLOR DRIVE CENTER MEDIAN BOTH NORTH AND SOUTH OF STH 28.
PERFORM TEMPORARY PAVEMENT CONSTRUCTION IN THE CHANNELIZING ISLAND OF THE SOUTHEAST QUADRANT OF THE TAYLOR DRIVE INTERSECTION.

CTH A
PERFORM TEMPORARY PAVEMENT WIDENING IN THE NORTHEAST QUADRANT OF THE CTH A INTERSECTION.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL OVERVIEW: STAGE 1A	SHEET 194	E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

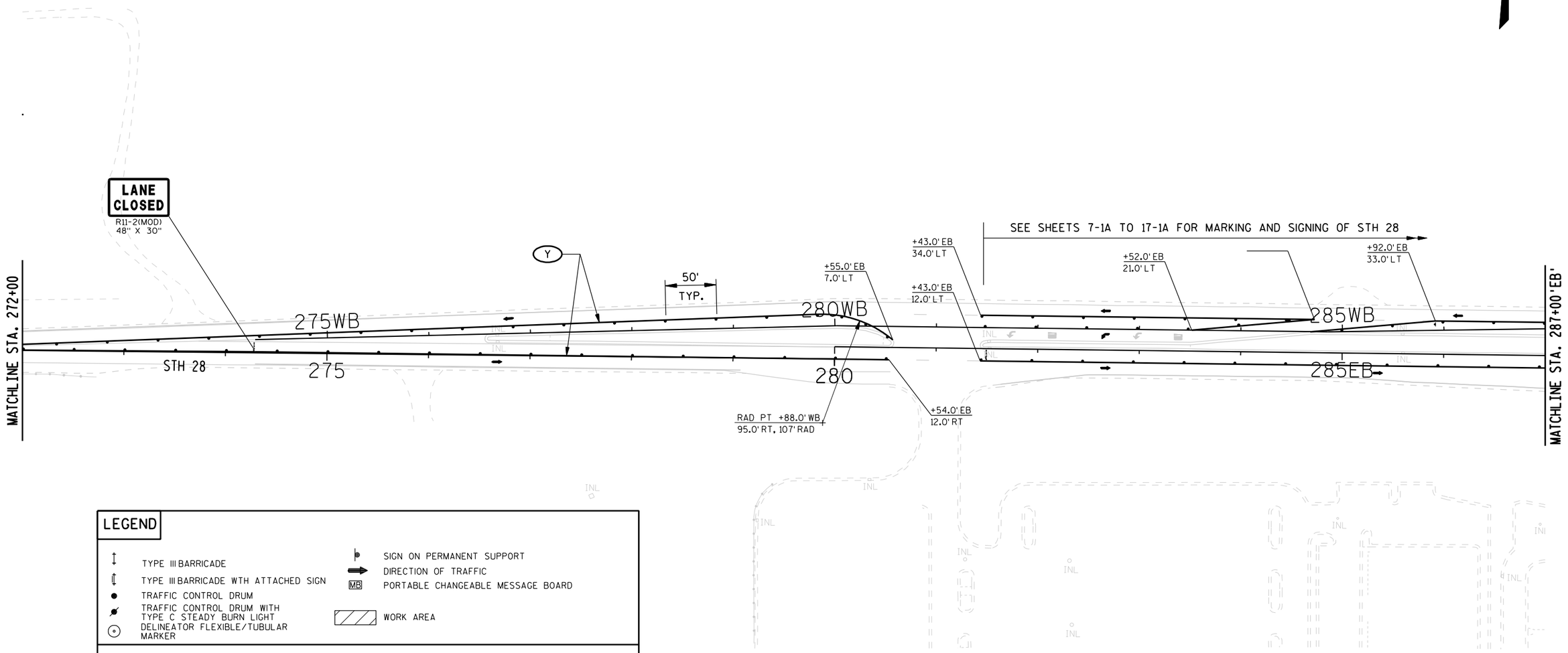
1-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IA	SHEET 195	E

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WISDOT/CADDS SHEET 42

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MS PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

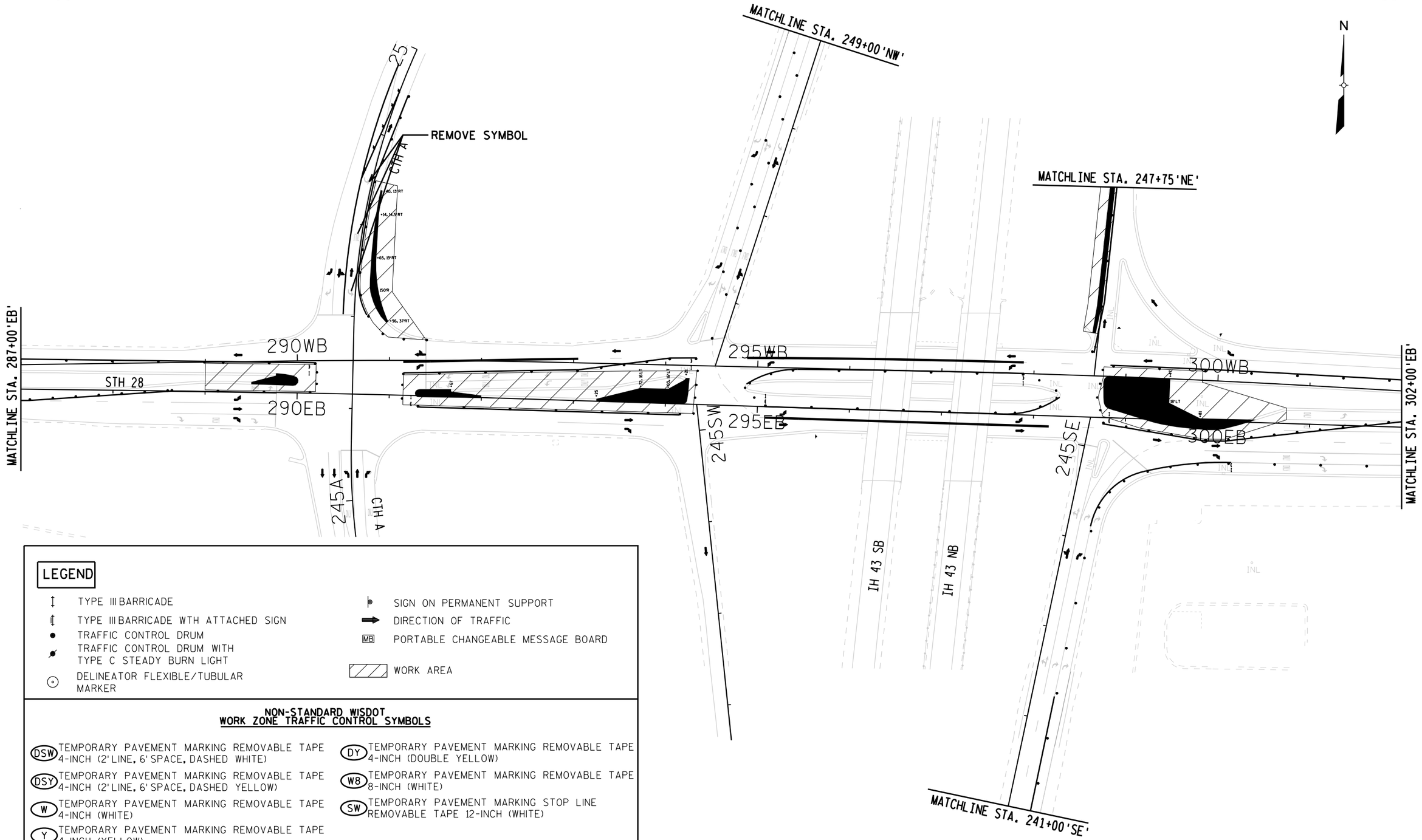
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

2-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IA	SHEET 196	E

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PLOT TIME: 10:21:15 AM
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WISDOT/CADDS SHEET 42

SEE SHEETS 7-1A TO 17-1A FOR MARKING AND SIGNING



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

3-1A

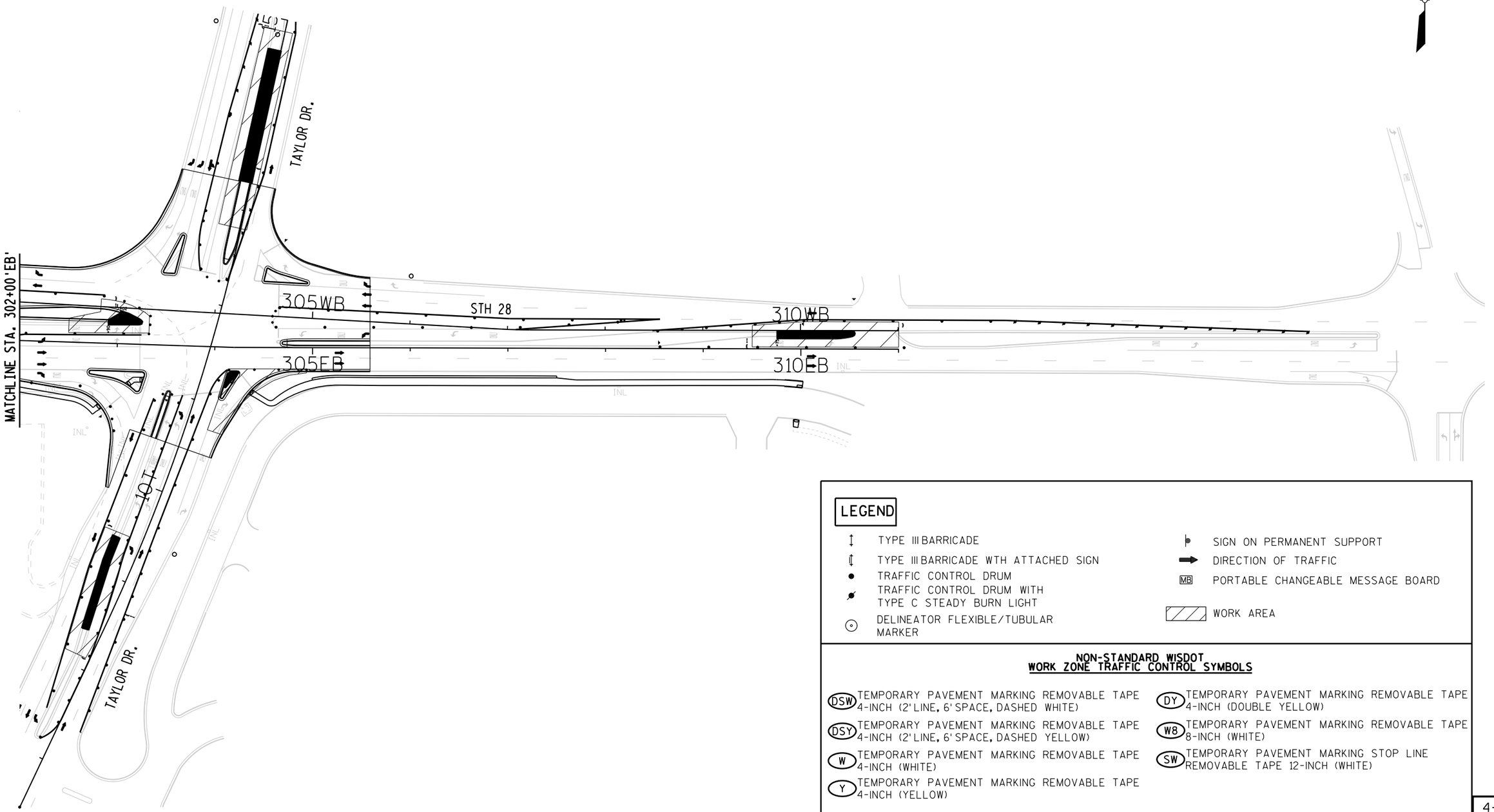
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PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

SEE SHEETS 7-1A TO 17-1A FOR MARKING AND SIGNING OF STH 28

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

4-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IA	SHEET 198 E

2

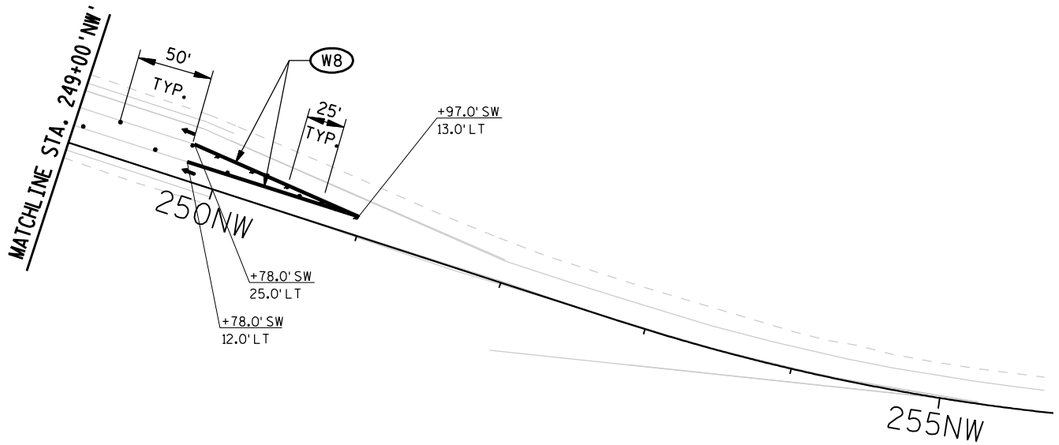
N

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT
WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



5-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IA	SHEET 199 E

2

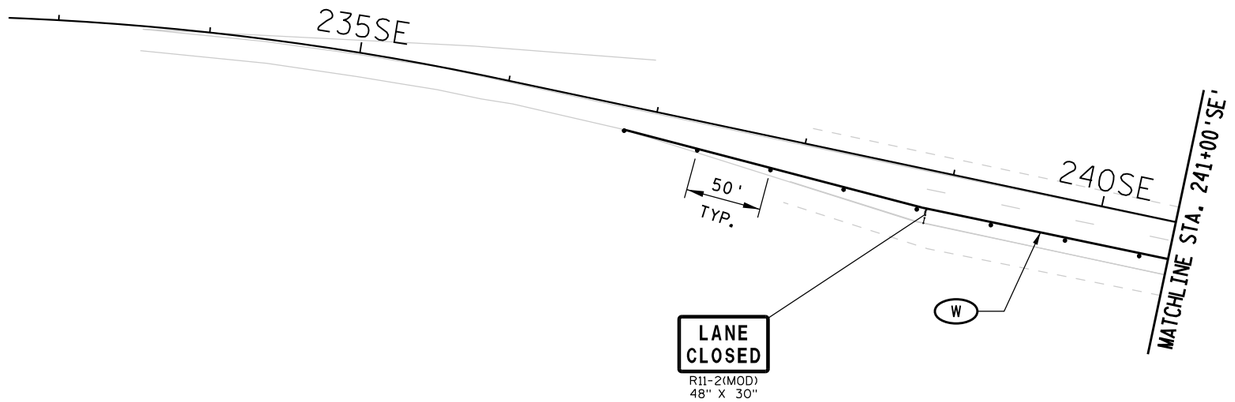
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

N



2

6-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IA	SHEET 200	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026006_s1A.DGN
BATCH PRINT SHEET 6 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:38:56 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

2

2

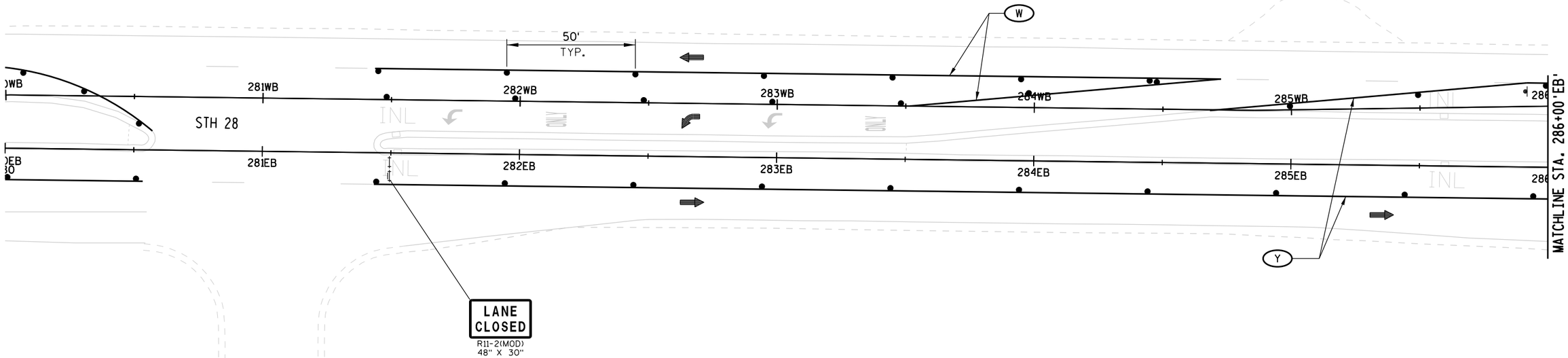
N

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



7-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1A	SHEET 201	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026007_s1A.DGN
BATCH PRINT SHEET 7 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/13/2014
PLOT TIME: 1:38:59 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 286+00 'EB'

STH 28

50' TYP.

25' TYP.

WB 287WB 288WB 289WB 290WB 291WB

EB 287EB 288EB 289EB 290EB 291EB

Y

DY

W

W8

+00 +92

+67

CTH A

248A

247A

246A

245A

+14, 14.5' RT

+65, 19' RT

150'R

+96, 37'RT

ONLY

INL

MATCHLINE STA. 292+00 'EB'

LANE CLOSED
R11-2(MOD)
48" X 30"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

8-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1A	SHEET 202 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026008_s1A.DGN
BATCH PRINT SHEET 8 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:39:01 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

LANE CLOSED
R11-2(MOD)
48" X 30"

+34.0' EB
51.0' LT

246NW

+5.0' EB
45.0' LT

+5.0' EB
33.0' LT

+5.0' EB
50.0' LT

W8

Y

WB

293WB

294WB

25'
TYP.

+72, 16' LT

+03, 16' LT

+21

+25

MATCHLINE STA. 292+00' EB

EB

STH 28

293EB

294EB

245SW

+12.0' EB
15.0' RT

LANE CLOSED
R11-2(MOD)
48" X 30"

+88.0' EB
24.0' LT

+12.0' EB
52.0' LT

295WB

296WB

297WB

298'

50'
TYP.

RAD PT +70.0' EB
100.0' LT, 100' RAD

+92.0' EB
57.0' LT

+92.0' EB
45.0' LT

+8.0' EB

295EB

296EB

297EB

298

MATCHLINE STA. 298+00' EB

+8.0' EB
12.0' RT

RAD PT +42.0' EB
60.0' LT, 102' RAD

244SW

LANE CLOSED
R11-2(MOD)
48" X 30"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

9-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1A	SHEET 203 E

FILE NAME: L:\work\106730\Trans\STH 28\CADD\Sheets\STH 28 - TC\026009_s1A.DGN
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PEN TABLE: L:\work\106730\Trans\STH 28\CADD\Sheets\ET_WisDOT.tbl
PLOT DATE: 11/18/2015
PLOT TIME: 10:11:16 AM
PLOT SCALE: 1:40

2

N

MATCHLINE STA. 247+75 'NE'

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW — TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY — TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W — TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y — TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY — TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 — TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW — TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

W4-1
36" X 36"

W4-1
36" X 36"

246NE

247NE

INL

Y

50'
TYP.

WB

299WB

+47

300WB

301WB

302

18' LT

+81, 2.5' LT

MATCHLINE STA. 298+00 'EB'

EB STH 28

299EB

301EB

25'
TYP.

MATCHLINE STA. 302+00 'EB'

W8

245SE

LANE CLOSED
R11-2(MOD)
48" X 30"

W

LANE CLOSED
R11-2(MOD)
48" X 30"

10-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1A	SHEET 204	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026010_s1A.DGN
BATCH PRINT SHEET 10 OF 54
PRINTER DRIVER: S:\..acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:39:07 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 13+00 'T'

TAYLOR DR.

LANE CLOSED
R11-2(MOD)
48" X 30"

50'
TYP.

25'
TYP.

25'
TYP.

WB

303WB

304WB

305WB

306WB

307WB

STH 28

303EB

304EB

305EB

306EB

307EB

MATCHLINE STA. 302+00 'EB'

MATCHLINE STA. 308+00 'EB'

W04-1

W04-1

MATCHLINE STA. 10+00 'T'

TAYLOR DR.

ONLY

ONLY

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

11-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1A	SHEET 205	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026011_s1A.DGN
BATCH PRINT SHEET 11 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:39:10 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 308+00 'EB'

WB 309WB 310WB 311WB

EB 309EB 310EB 311EB

W

25' TYP.

Y

25' TYP.

50' TYP.

75'

LEFT TURN LANE
R3-55L
24" X 30"

R3-2
24" X 24"

ONE WAY
R6-2L
24" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

W012-1D
24" X 24"

R3-2
24" X 24"

LANE CLOSED
R11-2(MOD)
48" X 30"

INL

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

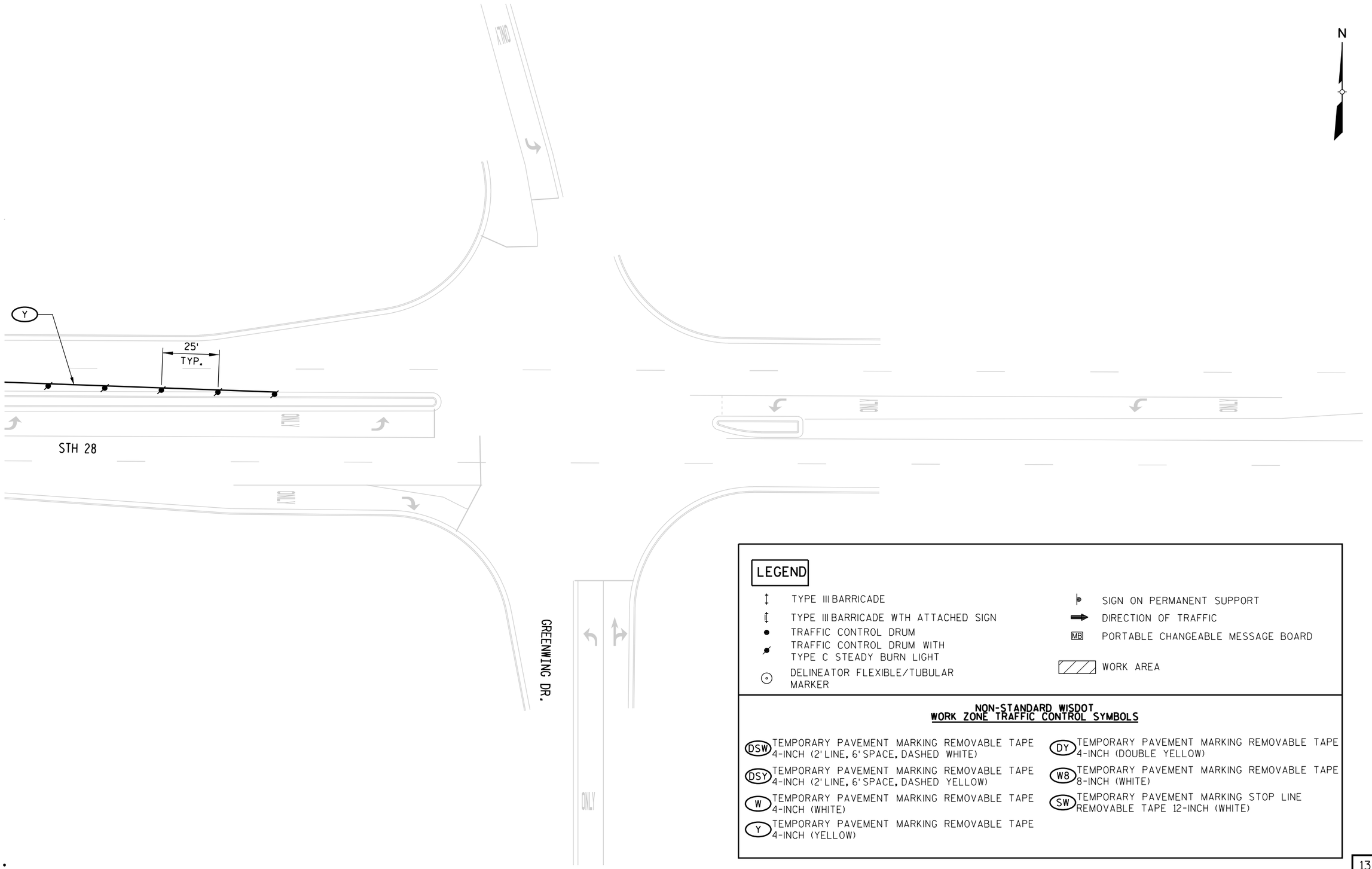
- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

12-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IA	SHEET 206	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026012_s1A.DGN
BATCH PRINT SHEET 12 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:39:13 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

13-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1A	SHEET 207	E

2

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

N

289EB 289WB 290EB 290WB 291EB 291WB 292EB 292WB

245A 246A 247A 248A 249A 250A

DY Y W

25' TYP. 25' TYP.

150'R +65, 19'RT +96, 37'RT +14, 14.5'RT +40, 13'RT +67

CTH A STH 28

REMOVE PAVEMENT MARKING SYBMOLS

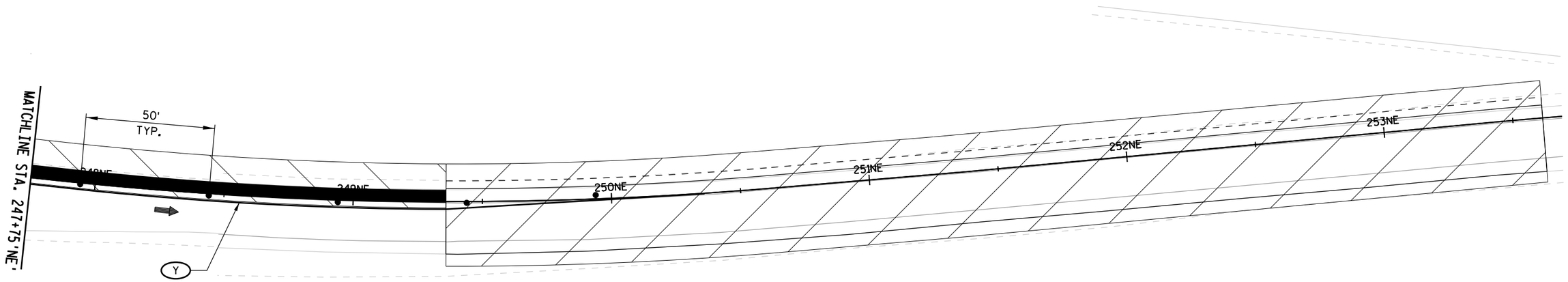
14-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1A	SHEET 208	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026014_s1A.DGN
BATCH PRINT SHEET 14 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:39:19 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

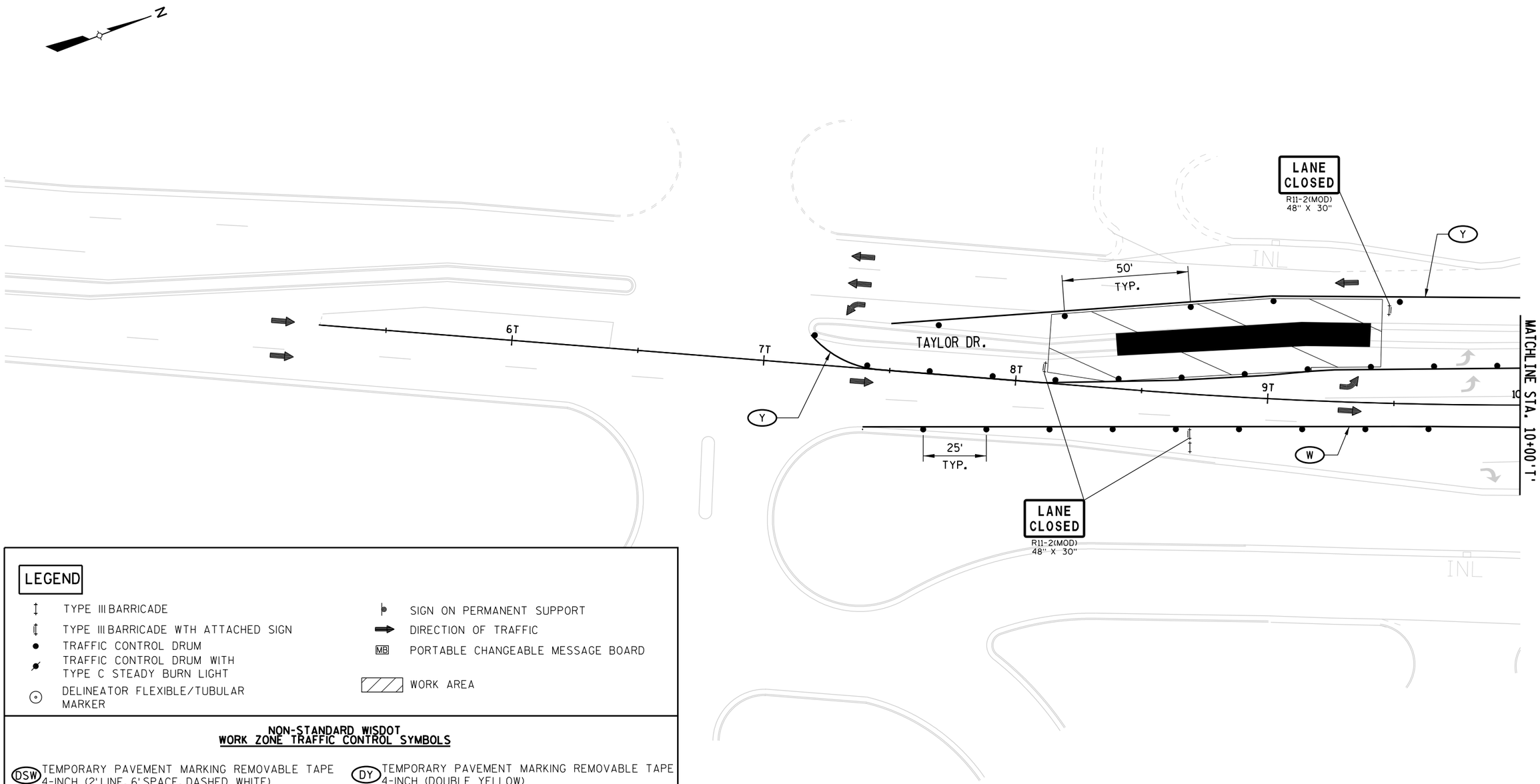
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

15-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IA	SHEET 209	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026015_s1A.DGN
BATCH PRINT SHEET 15 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/13/2014
PLOT TIME: 1:39:22 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

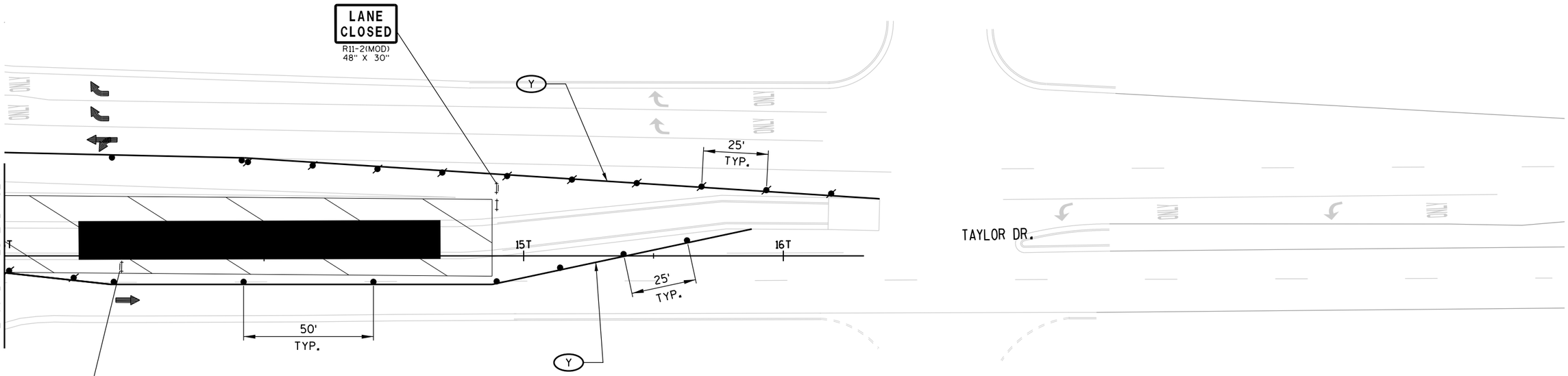
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

16-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IA	SHEET 210	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026016_s1A.DGN
BATCH PRINT SHEET 16 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:39:25 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

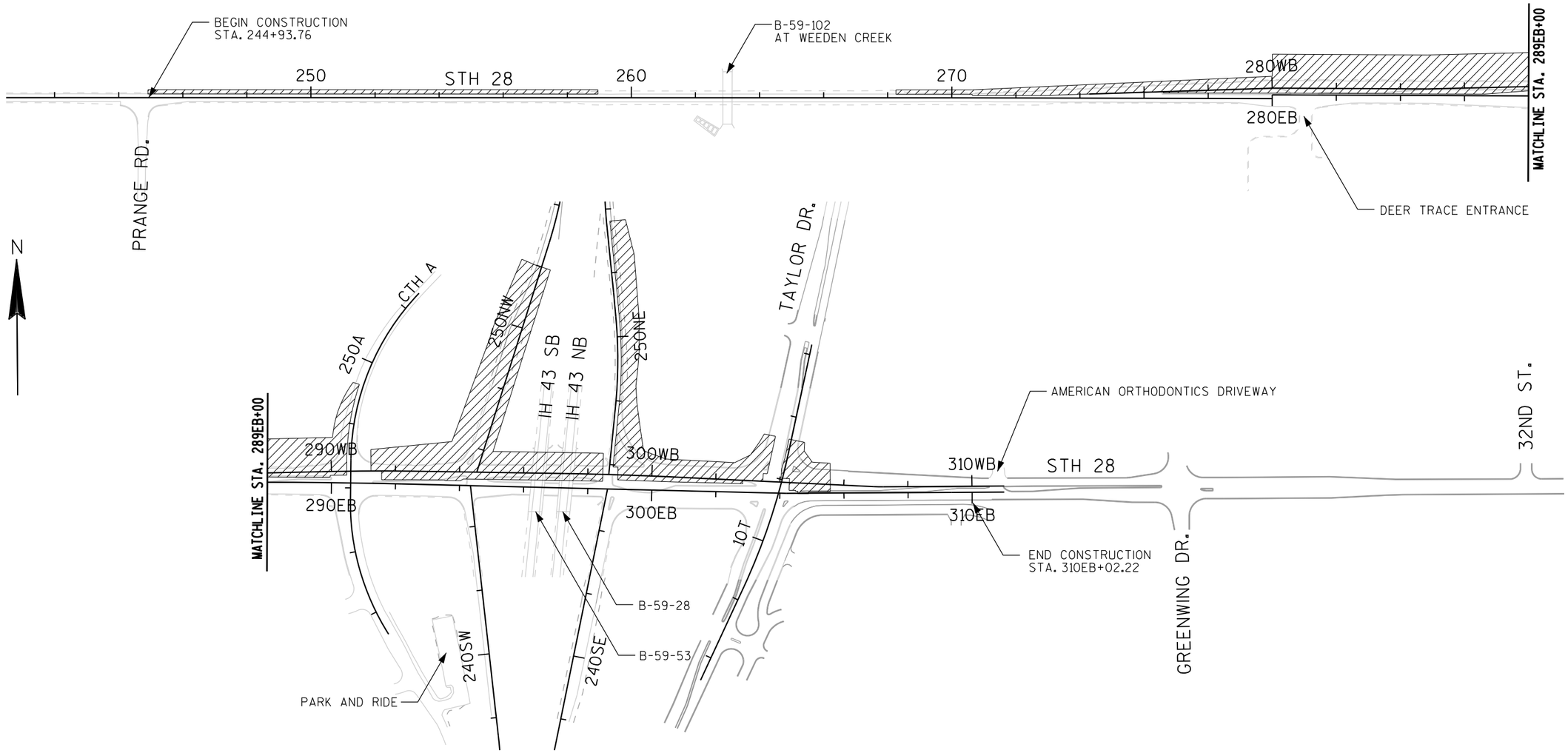
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

17-1A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IA	SHEET 211	E

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PLOT DATE: 12/13/2014
PLOT TIME: 1:39:28 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



TRAFFIC

STH 28
STH 28 REDUCED TO 1-LANE TRAFFIC WITH FLAGGING OPERATIONS DURING CONSTRUCTION ACTIVITIES FROM PRANGE ROAD TO WEEDEN CREEK. WHEN CONSTRUCTION ACTIVITIES ARE NOT BEING PERFORMED, THE WESTBOUND SHOULDER IS CLOSED.

STH 28 REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION USING EXISTING EASTBOUND ROADWAY FROM WEEDEN CREEK TO GREENWING DRIVE. A RIGHT TURN LANE IS PROVIDED FOR EASTBOUND STH 28 AT THE DEER TRACE ENTRANCE, CTH A, AND TAYLOR DRIVE. A LEFT TURN LANE IS PROVIDED FOR EASTBOUND STH 28 AT THE IH 43 NORTHBOUND ON-RAMP AND FOR WESTBOUND STH 28 AT CTH A AND IH 43 SOUTHBOUND ON-RAMP. ALL LEFT TURNS AND WESTBOUND RIGHT TURNS PROHIBITED AT TAYLOR DRIVE. THE AMERICAN ORTHODONTICS DRIVEWAY IS CLOSED. ALTERNATE ROUTES TO AND FROM TAYLOR DRIVE ARE IN PLACE WITH TEMPORARY SIGNALS IN OPERATION AT 32ND STREET.

IH 43 RAMPS
IH 43 SOUTHBOUND OFF-RAMP CLOSED. IH 43 NORTHBOUND OFF-RAMP OUTSIDE RIGHT TURN LANE CLOSED, REDUCED TO ONE RIGHT TURN LANE. IH 43 NORTHBOUND ON-RAMP OPEN TO 1-LANE TRAFFIC USING THE WIDENED SHOULDER ON THE WEST SIDE OF THE RAMP.

TAYLOR DRIVE
TAYLOR DRIVE REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION, ONE LEFT AND RIGHT TURN LANE EACH PROVIDED FOR NORTHBOUND TAYLOR DRIVE TRAFFIC AT STH 28. LEFT AND RIGHT TURNS PROHIBITED FOR SOUTHBOUND TAYLOR DRIVE TRAFFIC AT STH 28.

CTH A
CTH A REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION. SOUTHBOUND LEFT AND RIGHT TURNS COMBINED WITH THROUGH LANE.

CONSTRUCTION

STH 28
PERFORM SHOULDER WIDENING OF THE WESTBOUND SHOULDER FROM PRANGE ROAD TO WEEDEN CREEK.

PERFORM ROADWAY RECONSTRUCTION OF THE STH 28 WESTBOUND ROADWAY FROM WEEDEN CREEK TO EAST OF TAYLOR DRIVE, EXCEPT FOR GAPS AT CTH A, IH 43 NORTHBOUND ON-RAMP, AND TAYLOR DRIVE.

PERFORM WING WALL REPLACEMENTS ON THE NORTH SIDE OF THE WEEDEN CREEK BOX CULVERT B-59-102. PERFORM SLOPE PAVING ON THE NORTH SIDE OF IH 43 BRIDGE STRUCTURES B-59-28 AND B-59-53.

IH 43 RAMPS
PERFORM RAMP RECONSTRUCTION, MILL, AND RESURFACE OF THE IH 43 SOUTHBOUND OFF-RAMP.

PERFORM RAMP CONSTRUCTION OF THE MERGE LANE ON THE IH 43 NORTHBOUND ON-RAMP. CONSTRUCT TEMPORARY PAVEMENT IN THE CHANNELIZING ISLAND OF THE IH 43 NORTHBOUND ON-RAMP.

TAYLOR DRIVE
PERFORM ROADWAY RECONSTRUCTION OF THE NORTH LEG OF TAYLOR DRIVE AT STH 28, EXPECT FOR GAPS.

CTH A
PERFORM ROADWAY RECONSTRUCTION OF THE NORTH LEG OF CTH A AT STH 28, EXCEPT FOR GAPS.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL OVERVIEW: STAGE 1B	SHEET 212	E

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WISDOT/CADDS SHEET 42

2

2

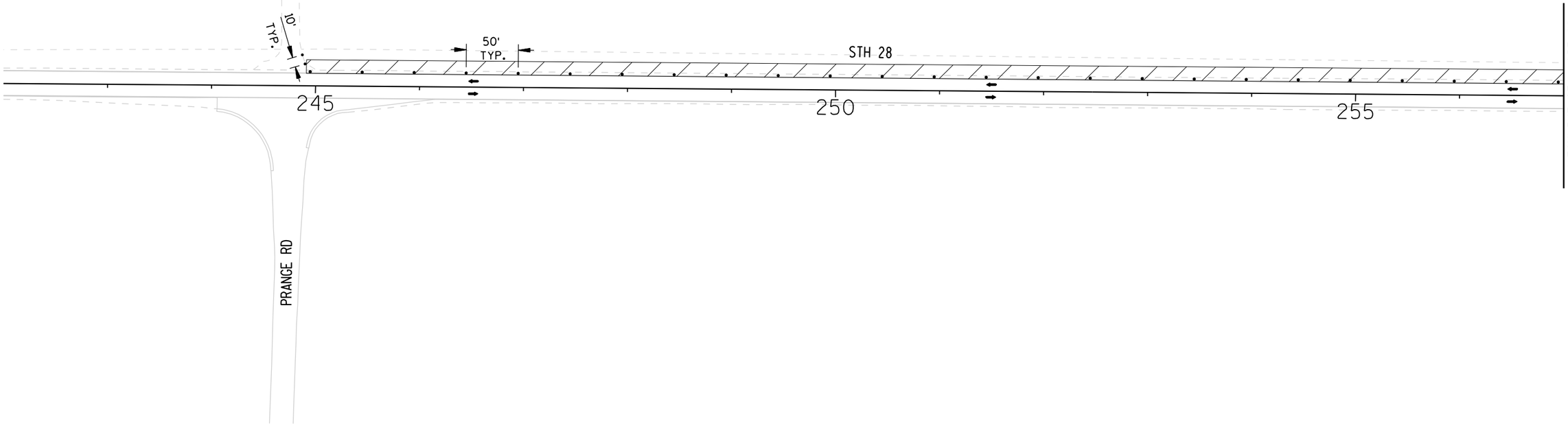
N

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT
WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

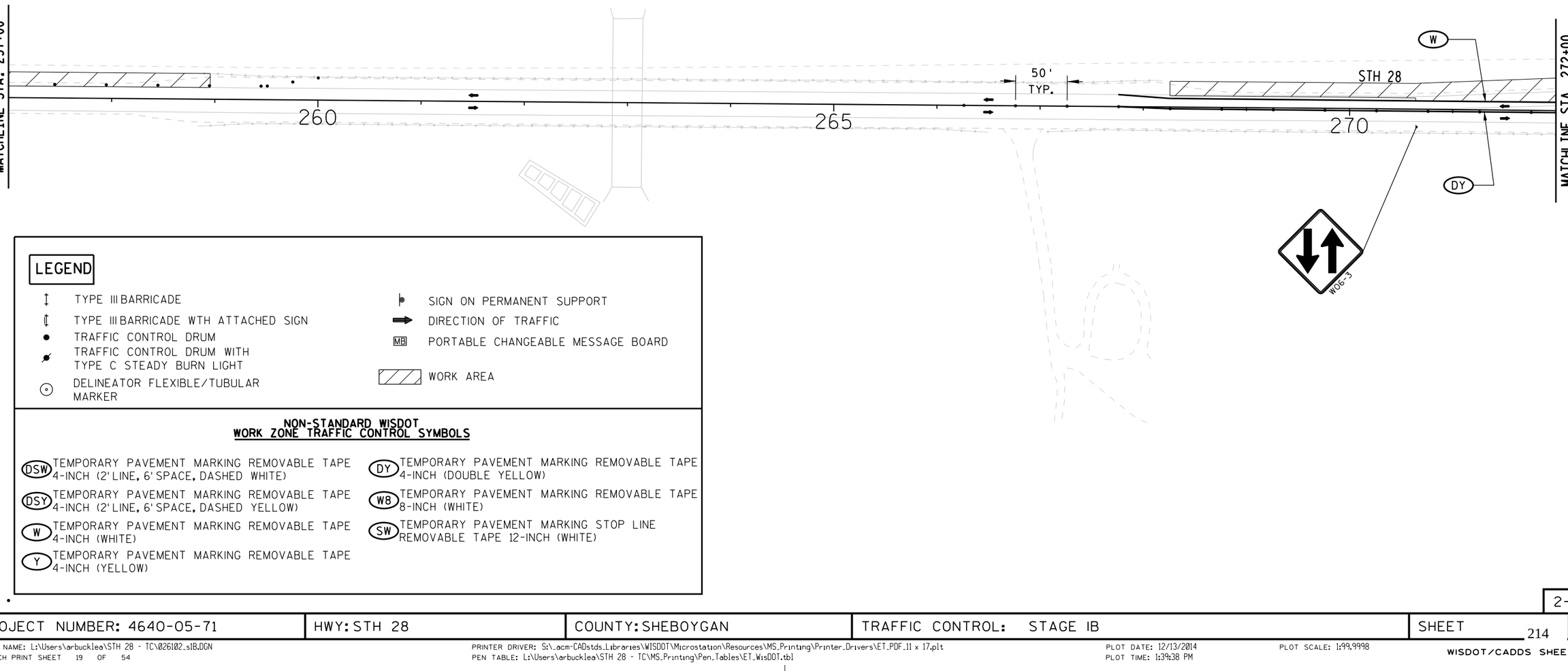


1-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 213	E

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PLOT TIME: 10:19:11 AM
PLOT SCALE: 1:100

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

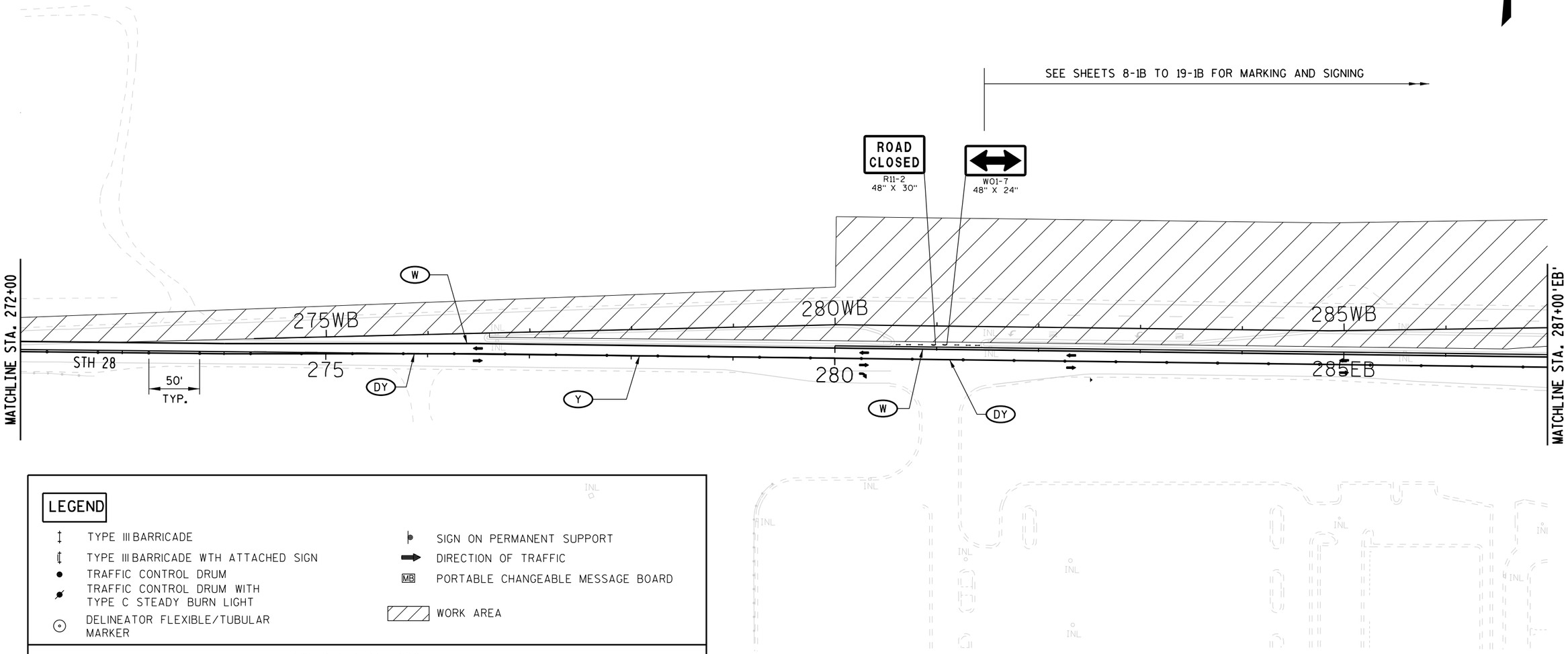
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

2

N

SEE SHEETS 8-1B TO 19-1B FOR MARKING AND SIGNING



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

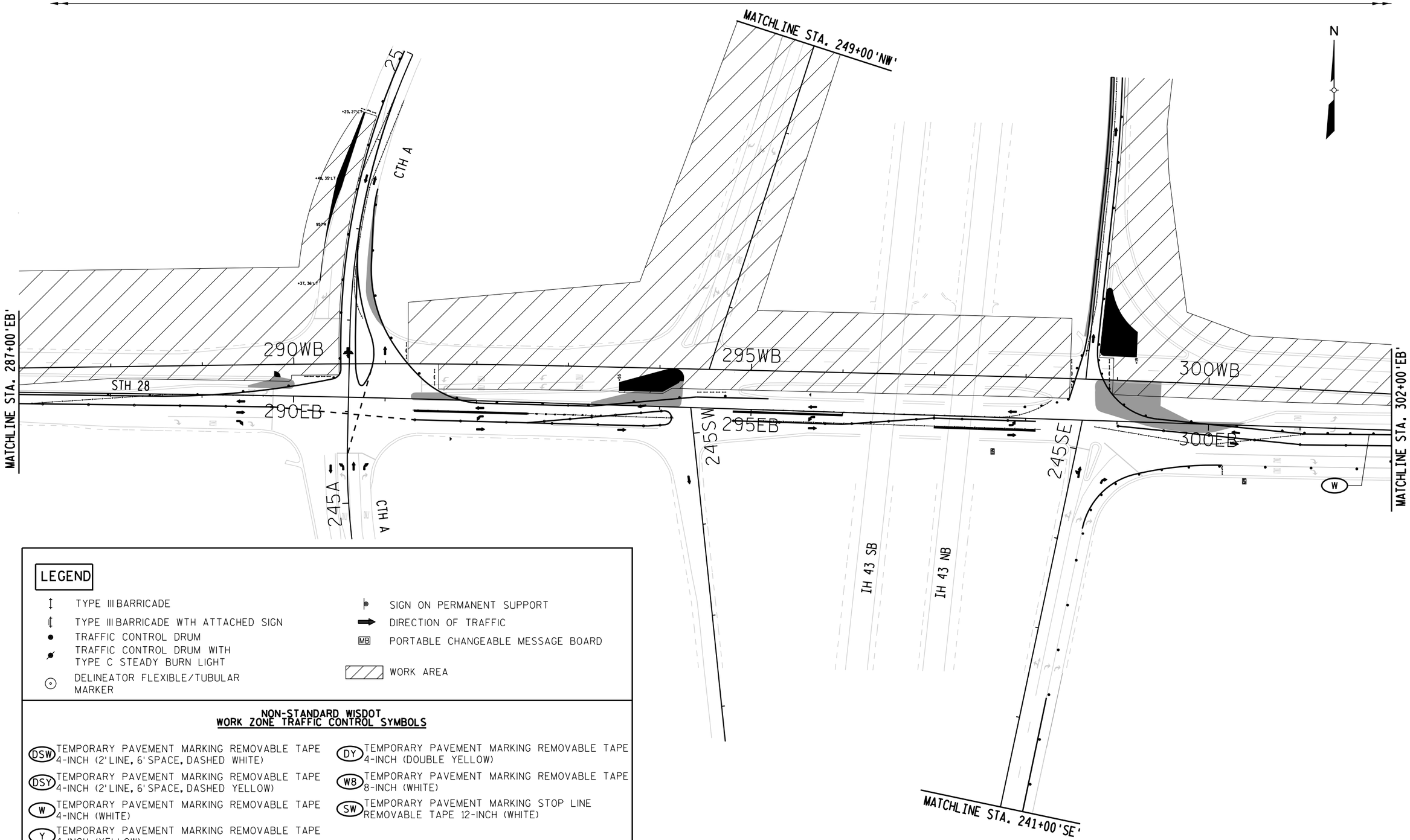
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

3-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IB	SHEET 215	E

SEE SHEETS 8-1B TO 19-1B FOR MARKING AND SIGNING



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

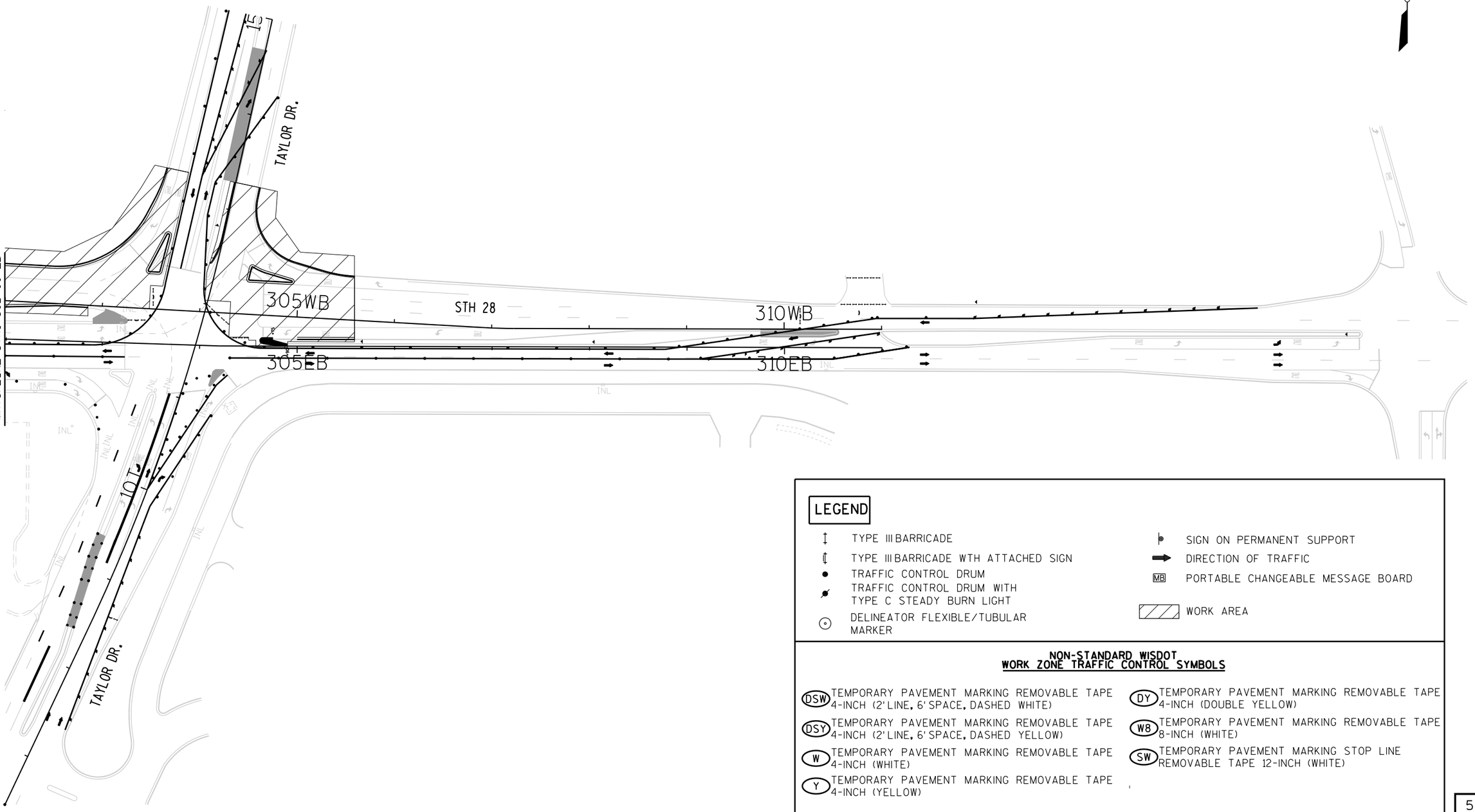
4-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 216 E

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WISDOT/CADDS SHEET 42

SEE SHEETS 8-1B TO 19-1B FOR MARKING AND SIGNING

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

5-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 217	E

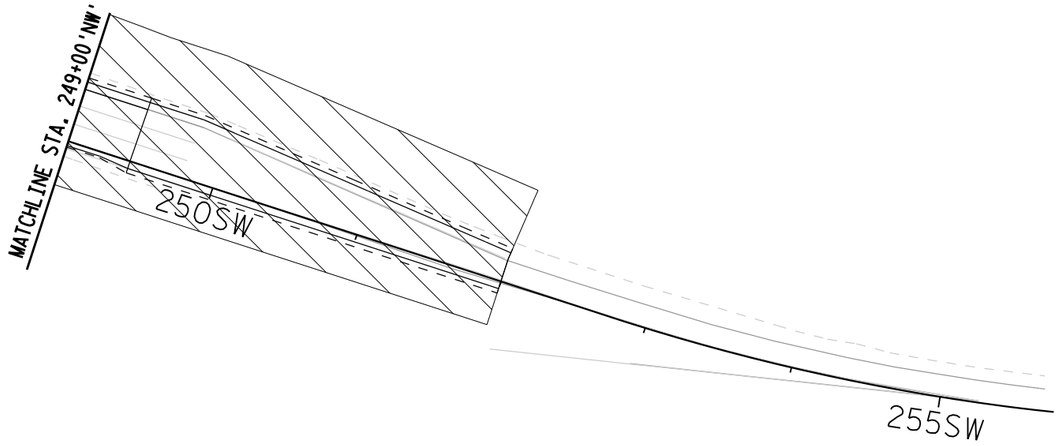
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LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



N

6-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 218	E

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WISDOT/CADDS SHEET 42

2

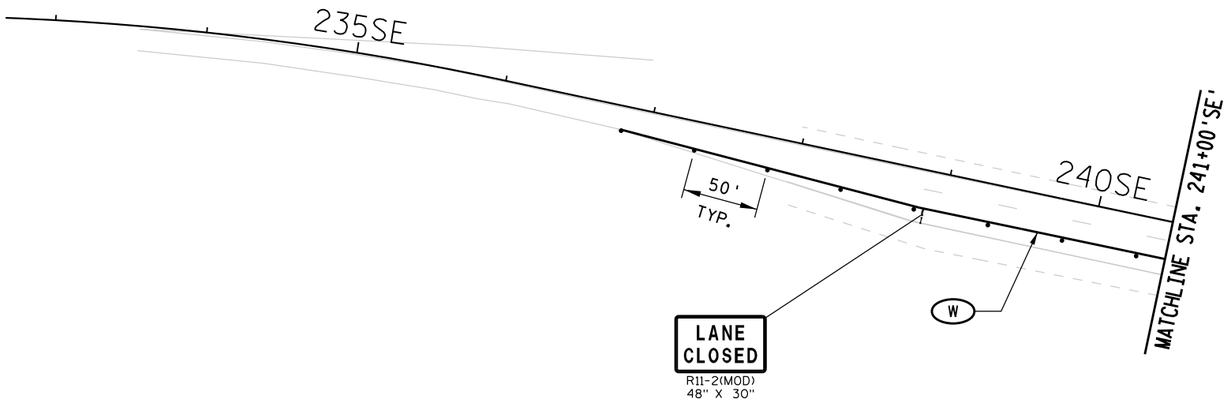
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
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- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

N



2

7-1B

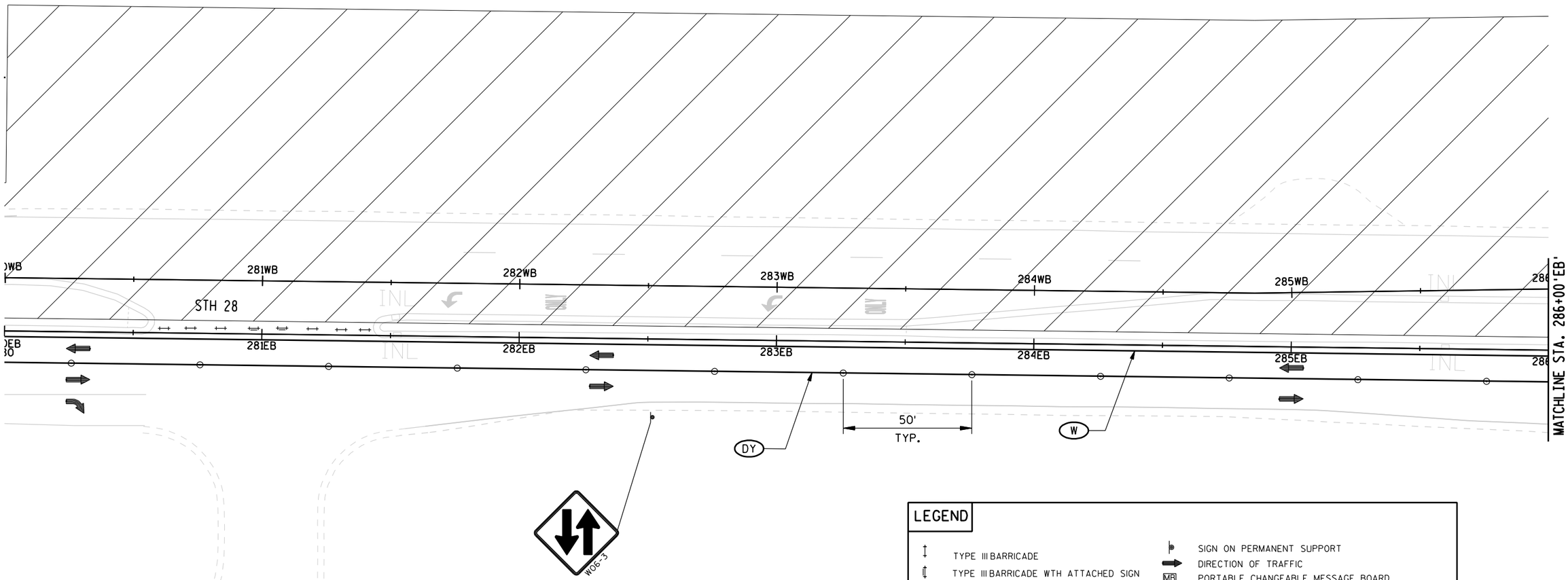
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WISDOT/CADDS SHEET 42

2

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

8-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IB	SHEET 220	E

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PLOT DATE: 11/18/2015
PLOT TIME: 10:25:08 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 286+00'EB'

MATCHLINE STA. 292+00'EB'

STH 28

287WB 288WB 289WB 290WB 291WB

287EB 288EB 289EB 290EB 291EB

957'R

248A

CTH A

DY

+73.0' A
2.0' RT

50'
TYP.

RAD PT 292+32.0' EB
145.0' RT, 151' RAD

ROAD CLOSED
R11-2
48" X 30"

+37, 36' LT

Y

247A

+85.0' EB
33.0' LT

RAD PT +37.0' A
33.0' LT, 60' RAD

RAD PT 292+05.0' EB
97.0' RT, 100' RAD

RAD PT +54.0' A
20.0' LT, 11' RAD

W

+72.0' EB
14.0' RT

REMOVE PAVEMENT

246A

W8

+31.0' EB
13.0' RT

DSY

DY

+31.0' EB
23.0' RT

50'
TYP.

W

DY

REMOVE PAVEMENT MARKING

REMOVE PAVEMENT MARKING SYMBOL

+77.0' EB
12.0' RT

ROAD CLOSED
R11-2
48" X 30"

+55.0' A
1.0' RT

245A

ONLY

ONLY

W06-3

DO NOT PASS
R4-1
24" X 30"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
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- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

9-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 221 E

FILE NAME: L:\work\106730\Trans\STH 28\CADD\Sheets\STH 28 - TC\026109_s1B.DGN
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PLOT DATE: 11/18/2015
PLOT TIME: 10:25:36 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

246NW

W06-3

293WB 294WB 295WB 296WB 297WB 298'

+55

50' TYP.

STH 28

293EB 294EB 295EB 296EB 297EB

MATCHLINE STA. 292+00'EB'

MATCHLINE STA. 298+00'EB'

20' TYP.

245SW

244SW

W

DY W8 DSW Y

REMOVE PAVEMENT MARKING

DY W8

REMOVE PAVEMENT MARKING

W8

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

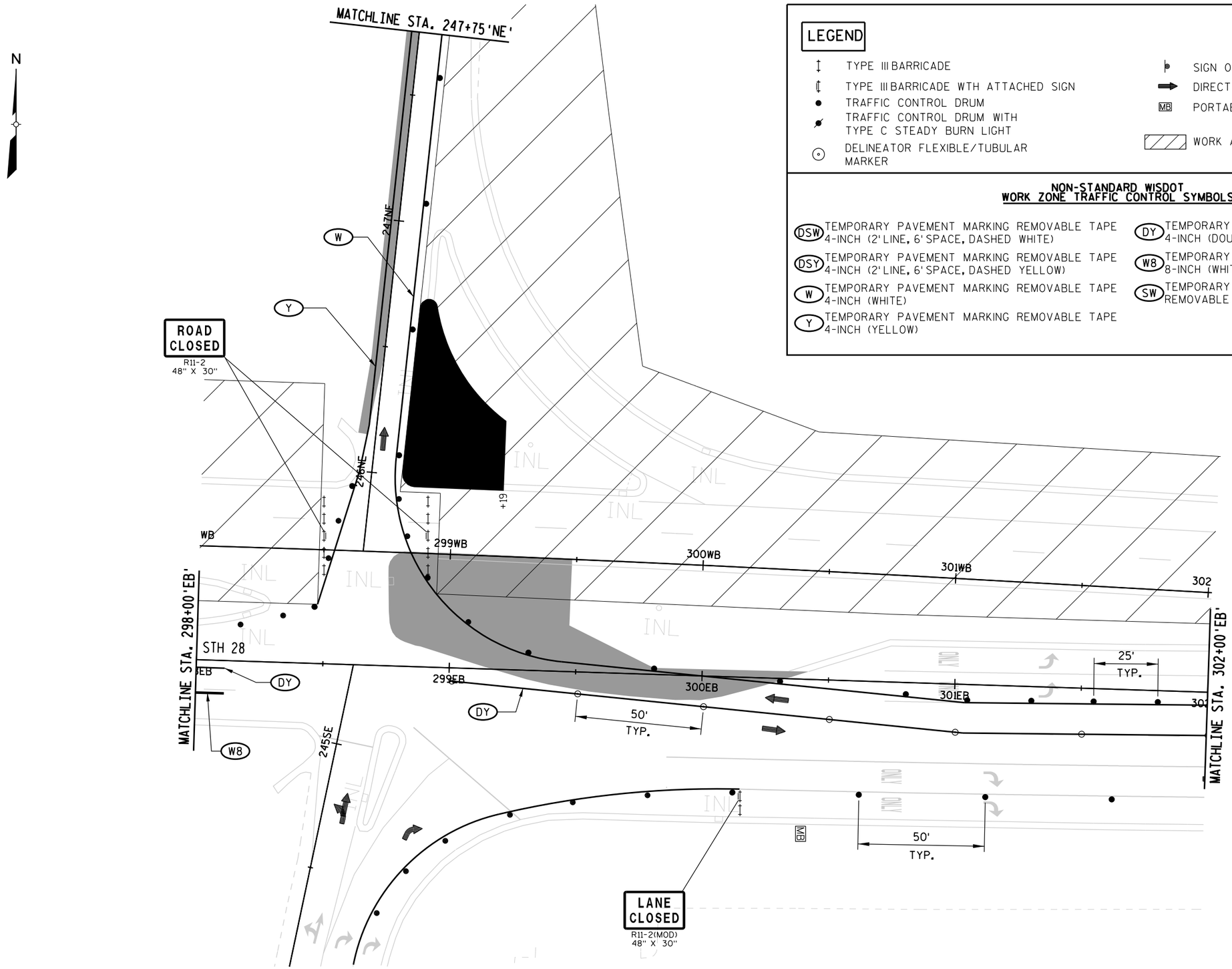
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

10-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 222	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026110_s1B.DGN
BATCH PRINT SHEET 27 OF 54
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:01 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

2

MATCHLINE STA. 13+75 'T'

N

ROAD CLOSED
R11-2
48" X 30"

W06-3

DY

TAYLOR DR.

W01-3R

15 M.P.H.
W013-1
24" X 24"

ROAD CLOSED
R11-2
48" X 30"

W06-3

W06-1

W

WB

303WB

304WB

305WB

306WB

307WB

STH 28

25'
TYP.

303EB

304EB

305EB

306EB

307EB

50'
TYP.

MATCHLINE STA. 302+00 'EB'

MATCHLINE STA. 308+00 'EB'

W8

REMOVE PAVEMENT MARKING SYMBOL

MATCHLINE STA. 10+00 'T'

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

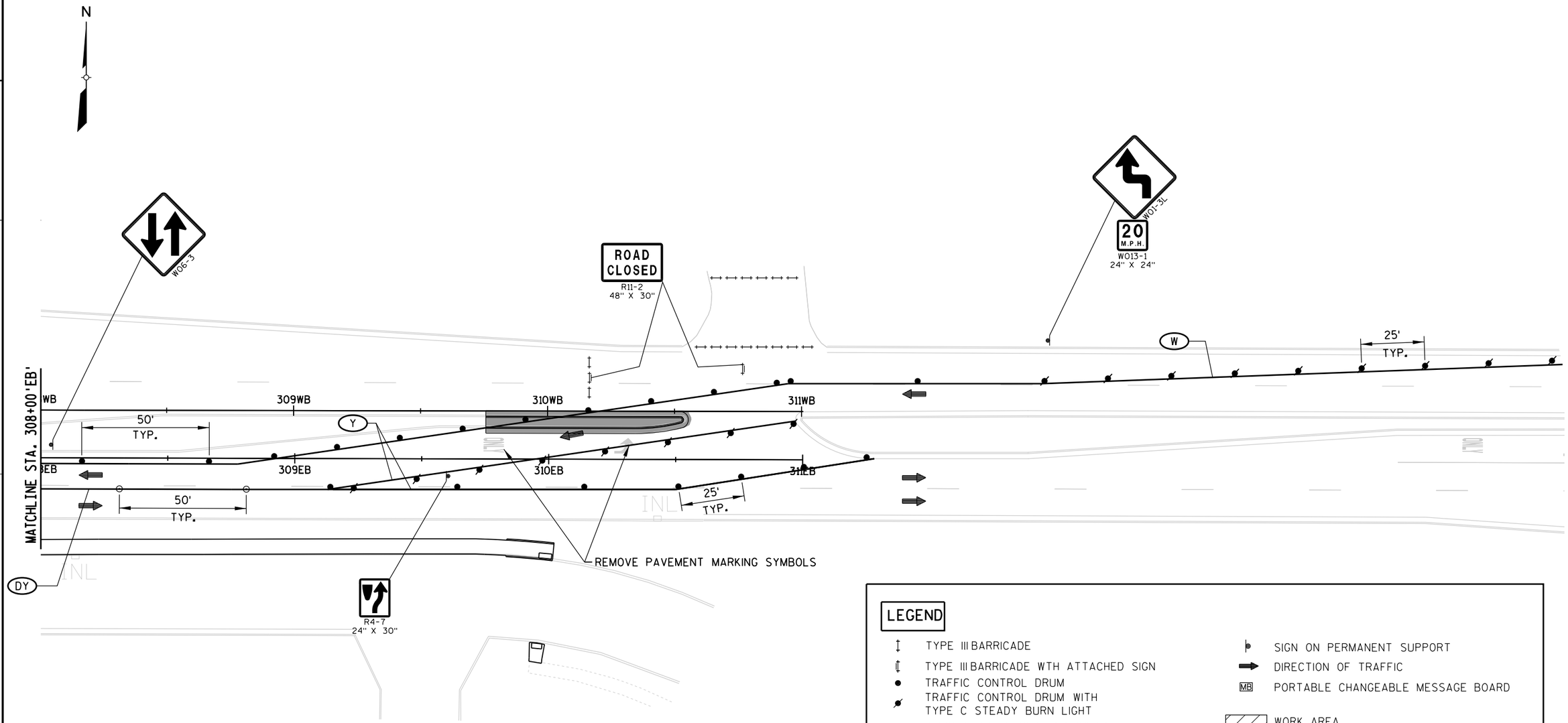
- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

12-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IB	SHEET 224	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026112_s1B.DGN
BATCH PRINT SHEET 29 OF 54
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:07 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

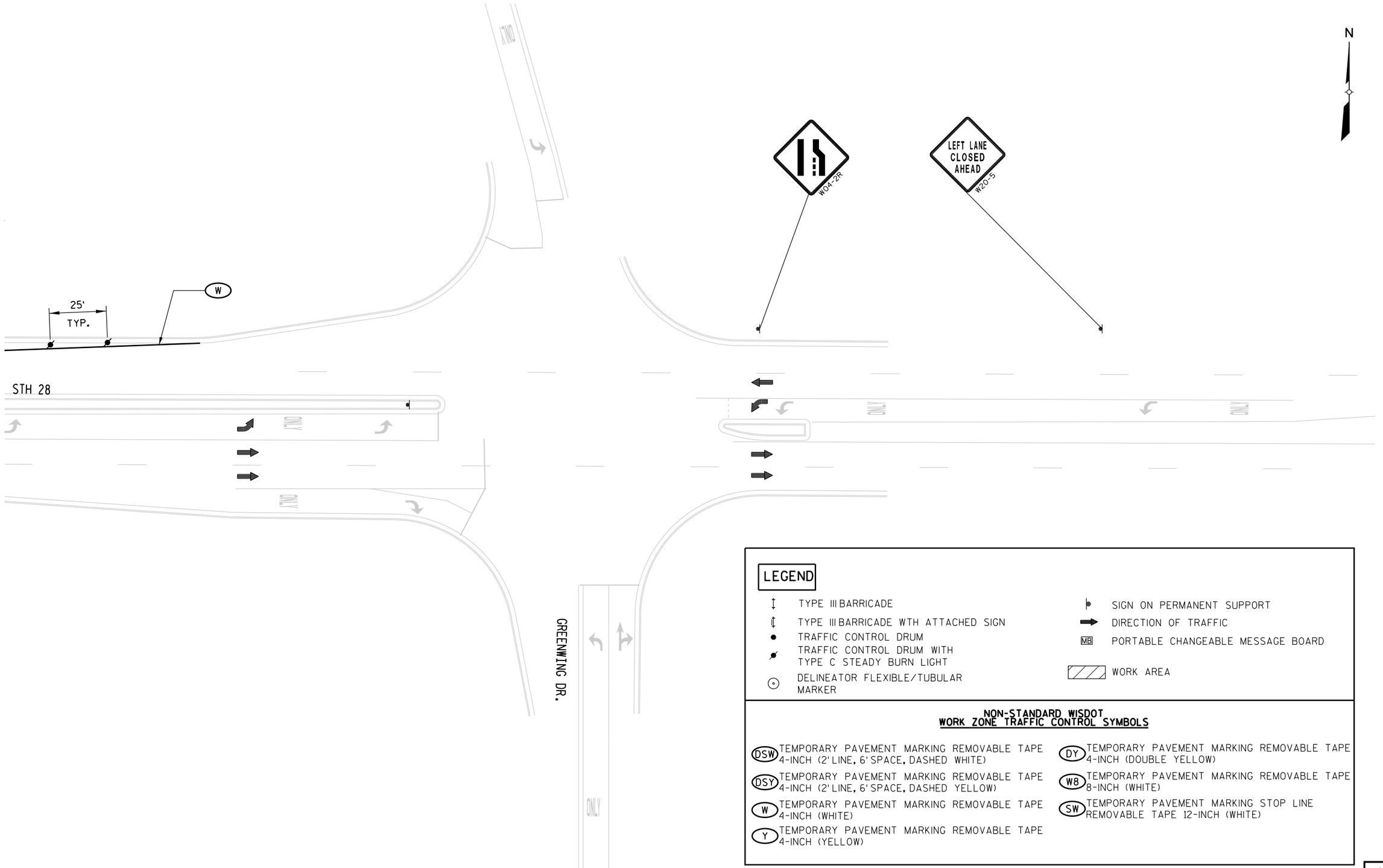
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

13-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 225	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026113_s1B.DGN
BATCH PRINT SHEET 30 OF 54
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:10 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

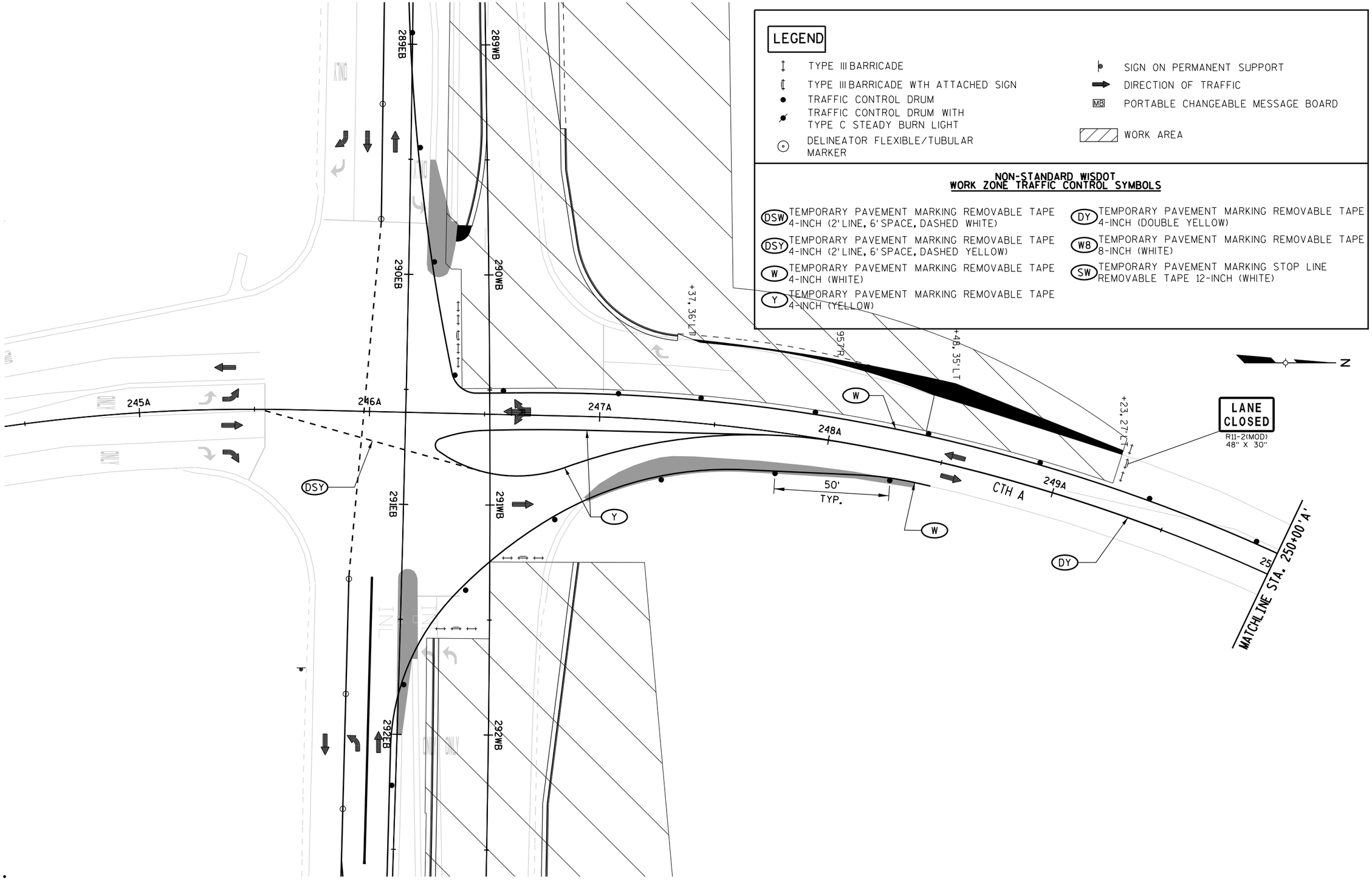
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- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

14-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 226	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026114_s1B.DGN
BATCH PRINT SHEET 31 OF 54
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:13 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



15-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 227 E

2

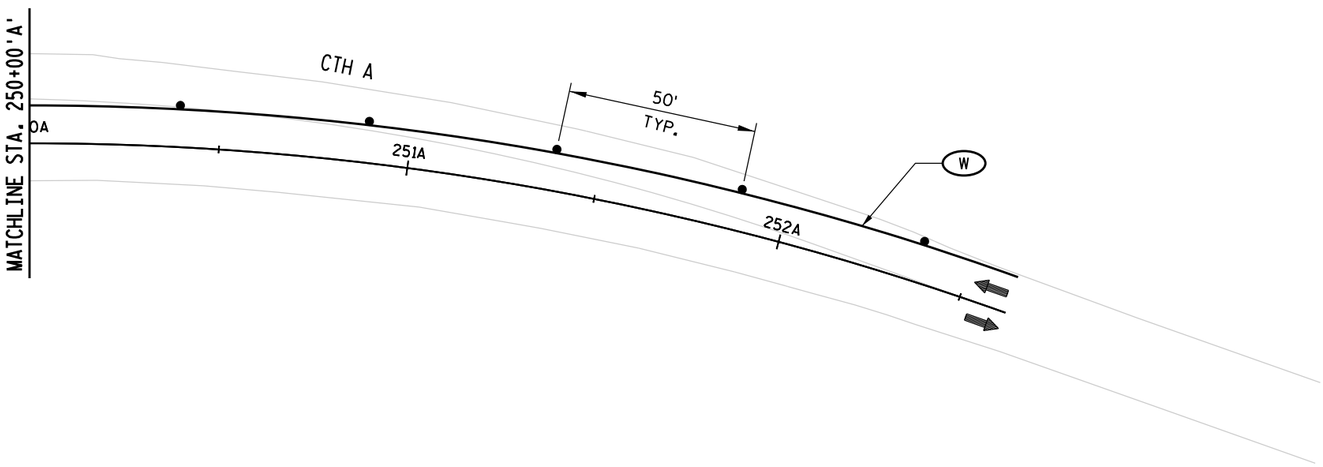
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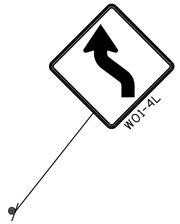
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)





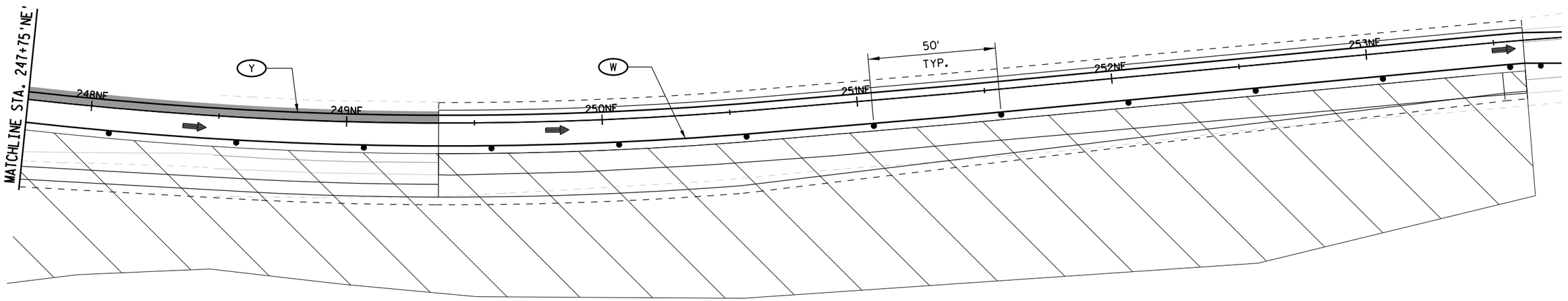
16-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 228	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026116_s1B.DGN
BATCH PRINT SHEET 33 OF 54
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:19 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

IH 43 NB

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

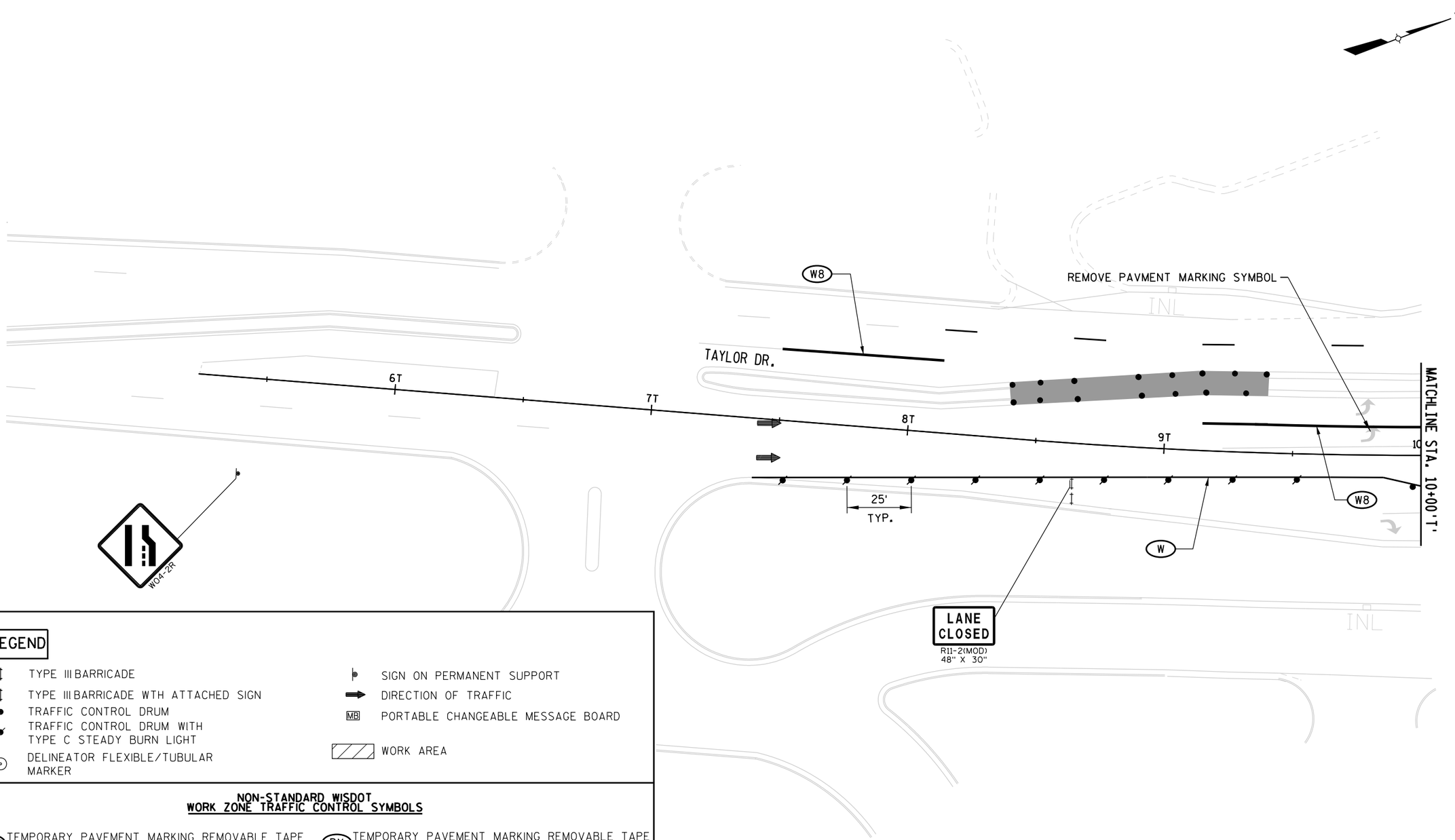
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

17-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 229 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026117_s1B.DGN
BATCH PRINT SHEET 34 OF 54
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PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
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- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

18-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 230 E

2

N

LANE CLOSED
R11-2(MOD)
48" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

MB

W

50'
TYP.

25'
TYP.

TAYLOR DR.

Y

14T

15T

16T

25'
TYP.

W

MATCHLINE STA. 13+75 'T'

SEE SHEET 12-1B

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

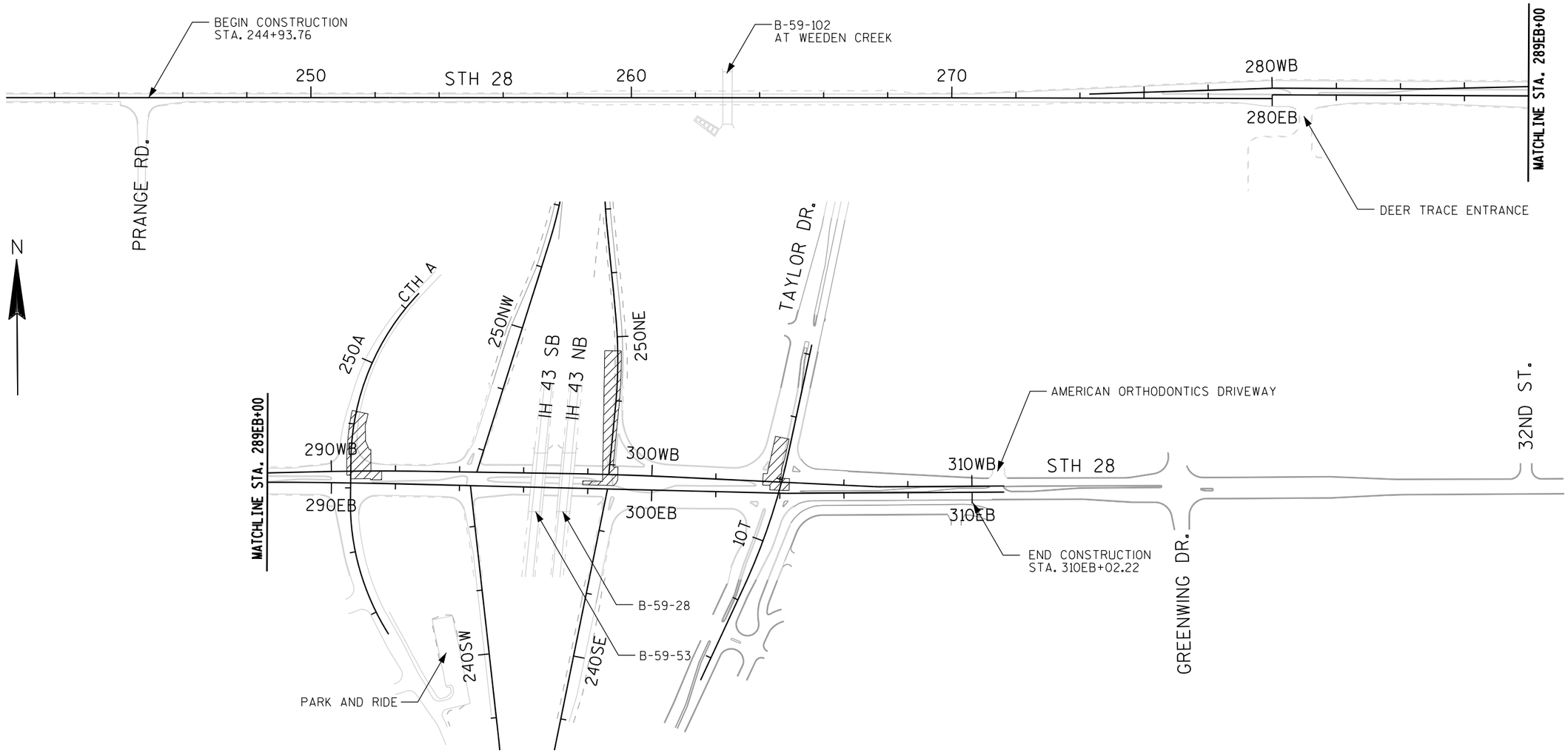
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

19-1B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1B	SHEET 231	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026119_s1B.DGN
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:29 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



TRAFFIC

STH 28
STH 28 REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION USING EXISTING EASTBOUND ROADWAY FROM WEEDEN CREEK TO GREENWING DRIVE. A RIGHT TURN LANE IS PROVIDED FOR EASTBOUND STH 28 AT THE DEER TRACE ENTRANCE, CTH A, AND TAYLOR DRIVE. A LEFT TURN LANE IS PROVIDED FOR EASTBOUND STH 28 AT THE IH 43 NORTHBOUND ON-RAMP AND FOR WESTBOUND STH 28 AT CTH A AND IH 43 SOUTHBOUND ON-RAMP. ALL LEFT TURNS AND WESTBOUND RIGHT TURNS PROHIBITED AT TAYLOR DRIVE. THE AMERICAN ORTHODONTICS DRIVEWAY IS CLOSED. ALTERNATE ROUTES TO AND FROM TAYLOR DRIVE ARE IN PLACE WITH TEMPORARY SIGNALS IN OPERATION AT 32ND STREET.

IH 43 RAMPS
IH 43 SOUTHBOUND OFF-RAMP INSIDE LEFT TURN LANE CLOSED, REDUCED TO ONE LEFT TURN LANE AND ONE RIGHT TURN LANE.
IH 43 NORTHBOUND OFF-RAMP OUTSIDE RIGHT TURN LANE CLOSED, REDUCED TO ONE RIGHT TURN LANE AND ONE LEFT TURN LANE.
IH 43 NORTHBOUND ON-RAMP OPEN TO 1-LANE TRAFFIC USING THE NEWLY CONSTRUCTED MERGE LANE.

TAYLOR DRIVE
TAYLOR DRIVE REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION. ONE LEFT AND RIGHT TURN LANE EACH PROVIDED FOR NORTHBOUND TAYLOR DRIVE TRAFFIC AT STH 28. ONE RIGHT TURN LANE PROVIDED FOR SOUTHBOUND TAYLOR DRIVE TRAFFIC EXCLUSIVELY FOR ACCESS TO THE NORTHBOUND IH 43 ON-RAMP ONLY, USING THE NEWLY CONSTRUCTED WESTBOUND STH 28. LEFT AND RIGHT TURNS TO STH 28 PROHIBITED FOR SOUTHBOUND TAYLOR DRIVE TRAFFIC.

CTH A
CTH A REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION. SOUTHBOUND LEFT AND RIGHT TURNS COMBINED WITH THROUGH LANE.

CONSTRUCTION

STH 28
PERFORM ROADWAY RECONSTRUCTION OF THE STH 28 WESTBOUND ROADWAY FROM WEEDEN CREEK TO EAST OF TAYLOR DRIVE AT THE GAPS CREATED DURING STAGE 1B AT CTH A, IH 43 NORTHBOUND ON-RAMP, AND TAYLOR DRIVE.

IH 43 RAMPS
PERFORM RAMP RECONSTRUCTION OF THE INSIDE LANE ON THE IH 43 NORTHBOUND ON-RAMP, REMOVING THE TEMPORARY SHOULDER WIDENING PLACED DURING STAGE 1A.

TAYLOR DRIVE
PERFORM ROADWAY RECONSTRUCTION OF THE SOUTHBOUND LEFT LANES AND CENTER MEDIAN ON THE NORTH LEG OF TAYLOR DRIVE AT STH 28.

CTH A
PERFORM ROADWAY RECONSTRUCTION OF THE NORTHBOUND LANES ON THE NORTH LEG OF CTH A AT STH 28, REMOVING THE TEMPORARY SHOULDER WIDENING PLACED DURING STAGE 1A.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL OVERVIEW: STAGE 1C	SHEET 232	E

2

N

STH 28

260

265

270

MATCHLINE STA. 272+00

W06-3

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

1-1C

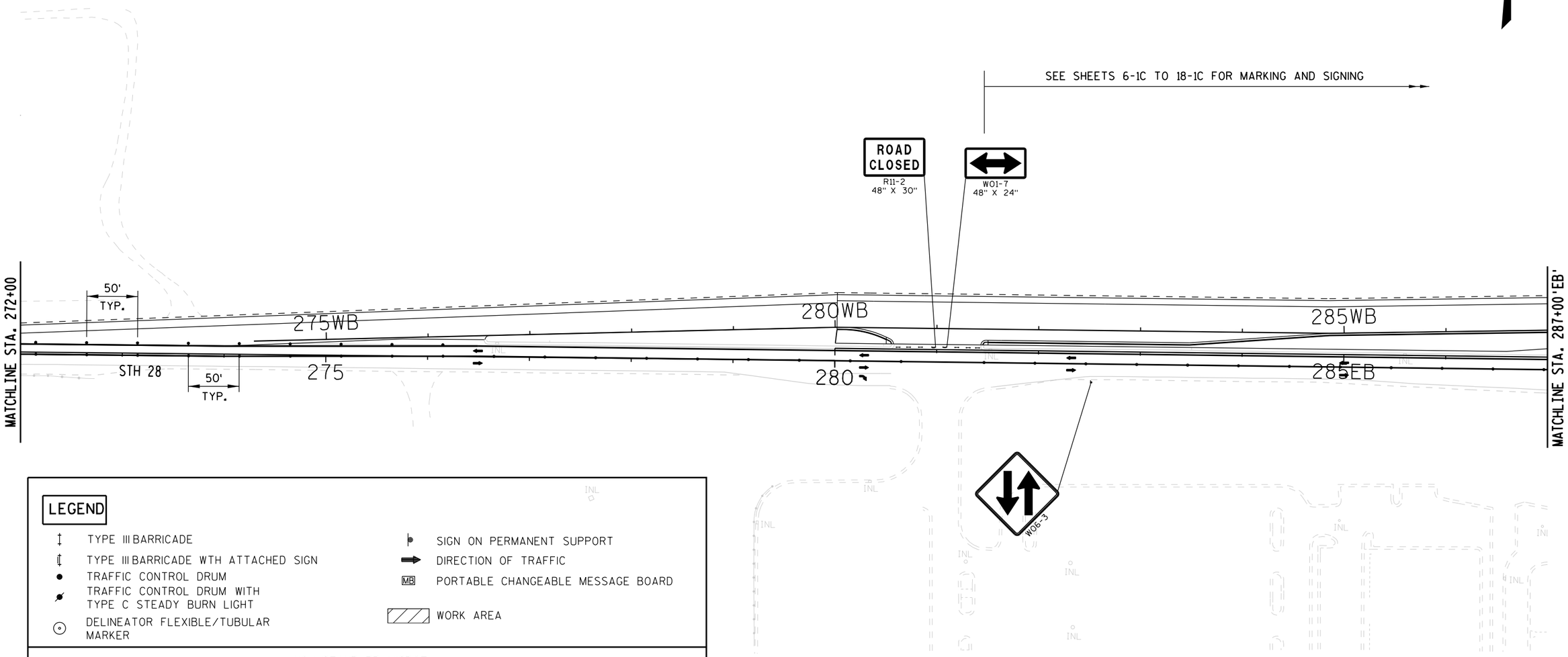
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BATCH PRINT SHEET 37 OF 54
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PLOT TIME: 1:40:33 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

2

N

SEE SHEETS 6-1C TO 18-1C FOR MARKING AND SIGNING



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

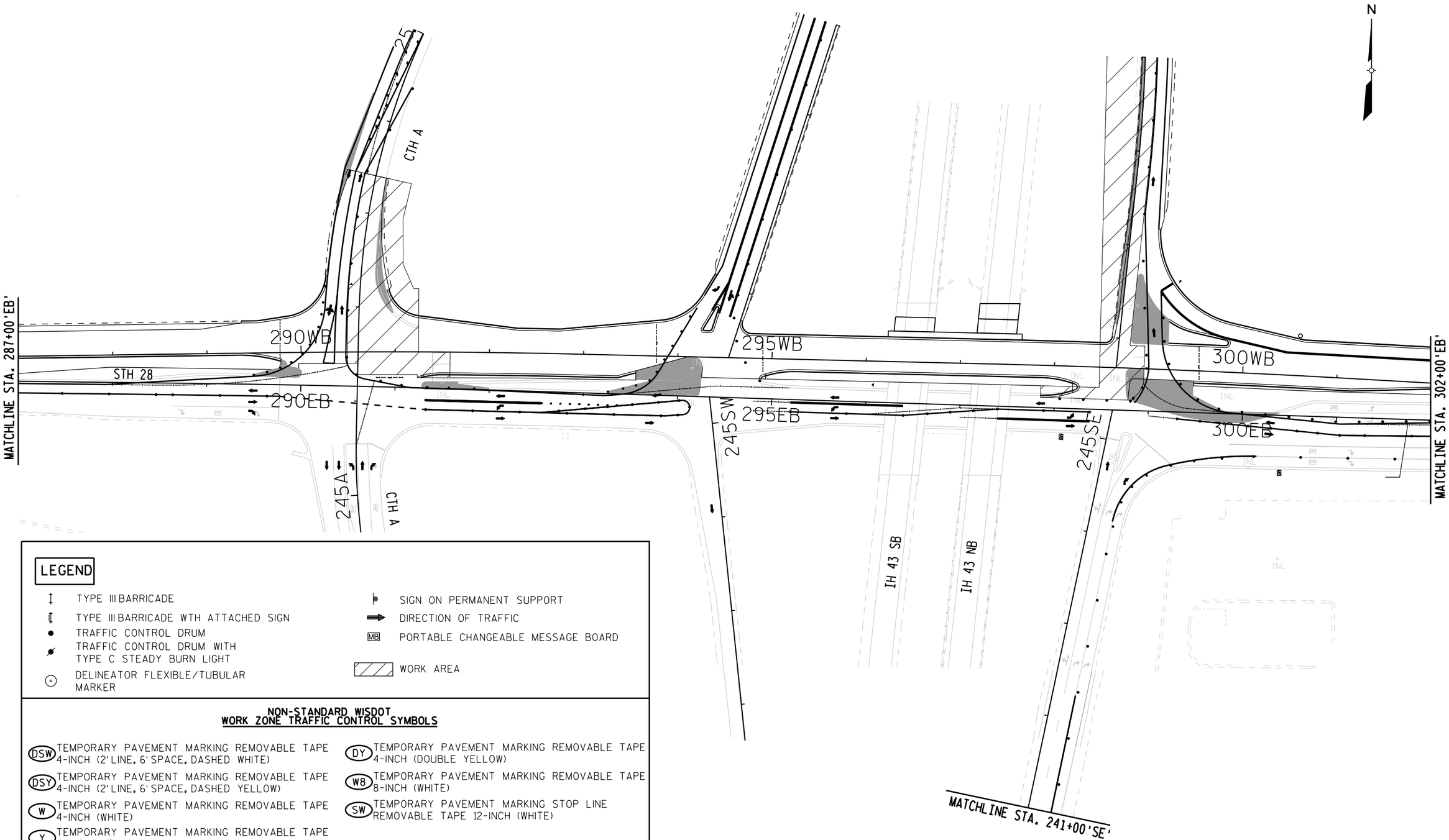
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

2-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 234	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026202_s1C.DGN
BATCH PRINT SHEET 38 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/13/2014
PLOT TIME: 1:40:36 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

SEE SHEETS 6-1C TO 18-1C FOR MARKING AND SIGNING



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

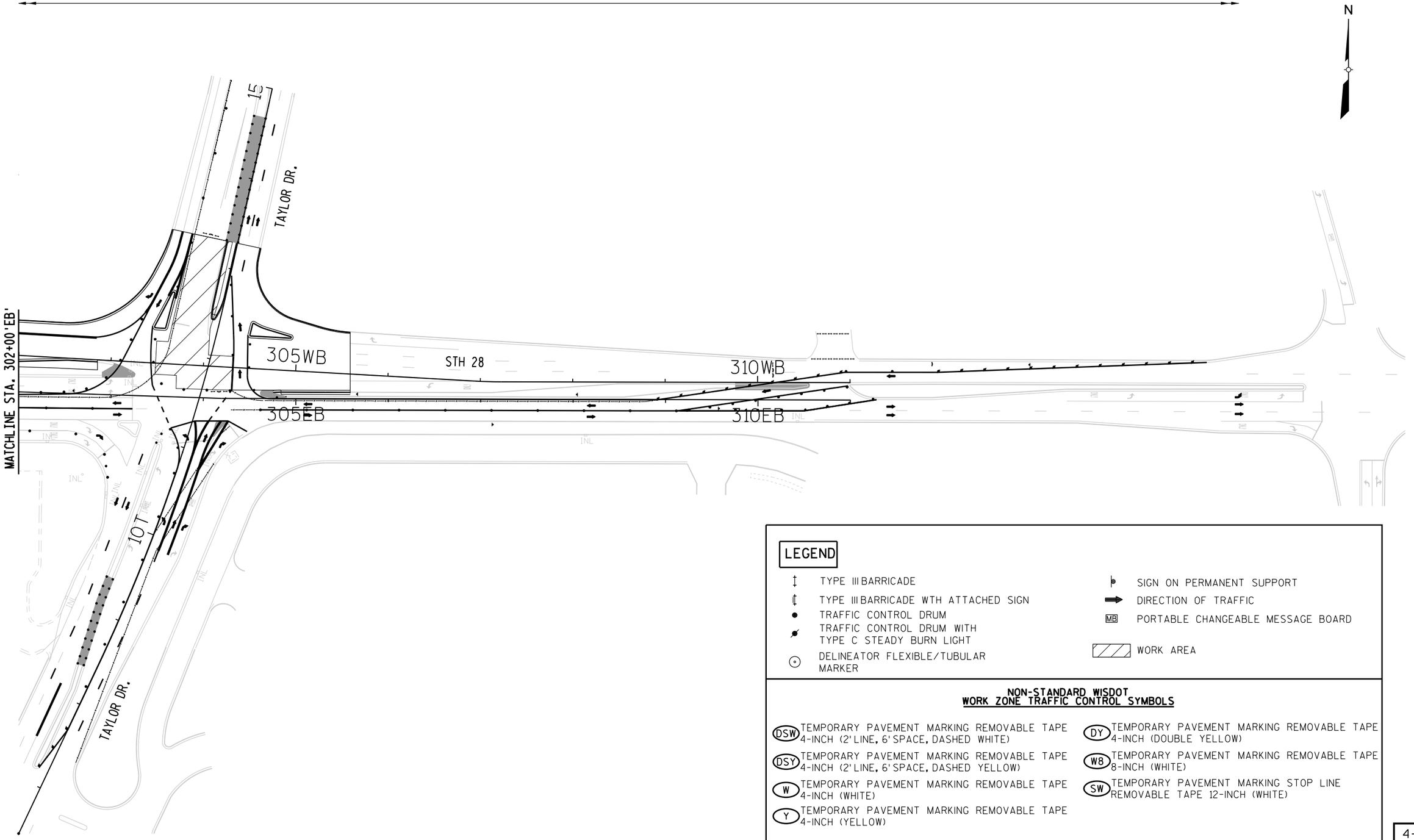
3-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 235	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026203_sIC.DGN
BATCH PRINT SHEET 39 OF 54
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:38 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

SEE SHEETS 6-1C TO 18-1C FOR MARKING AND SIGNING

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

4-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 236	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026204_sIC.DGN
BATCH PRINT SHEET 40 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:41 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

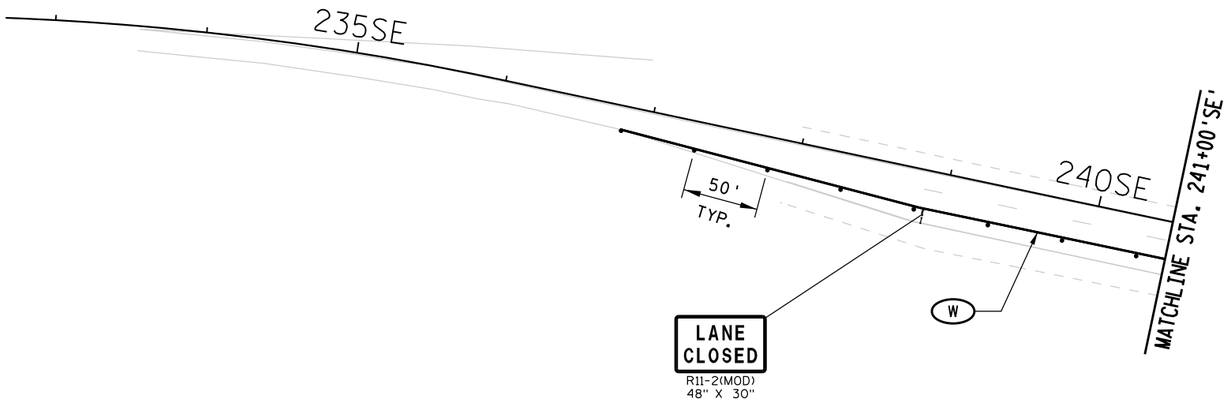
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

N



5-1C

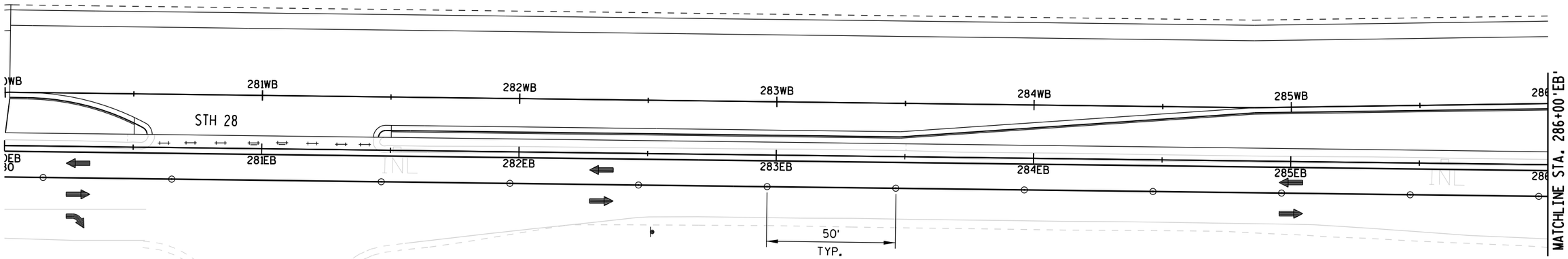
PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IC	SHEET 237	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026205_sIC.DGN
BATCH PRINT SHEET 41 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
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PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

2

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

6-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 238	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026206_s1C.DGN
BATCH PRINT SHEET 42 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/13/2014
PLOT TIME: 1:40:47 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 286+00'EB'

WB 287WB 288WB 289WB

STH 28

EB 287EB 288EB 289EB

50' TYP.

290WB 291WB 292

290EB 291EB 292

25' TYP.

MATCHLINE STA. 292+00'EB'

CTH A

248A

247A

246A

245A

DY

50' TYP.

ROAD CLOSED
R11-2
48" X 30"

W

Y

W

REMOVE PAVEMENT MARKING

ONLY

ONLY

KING

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

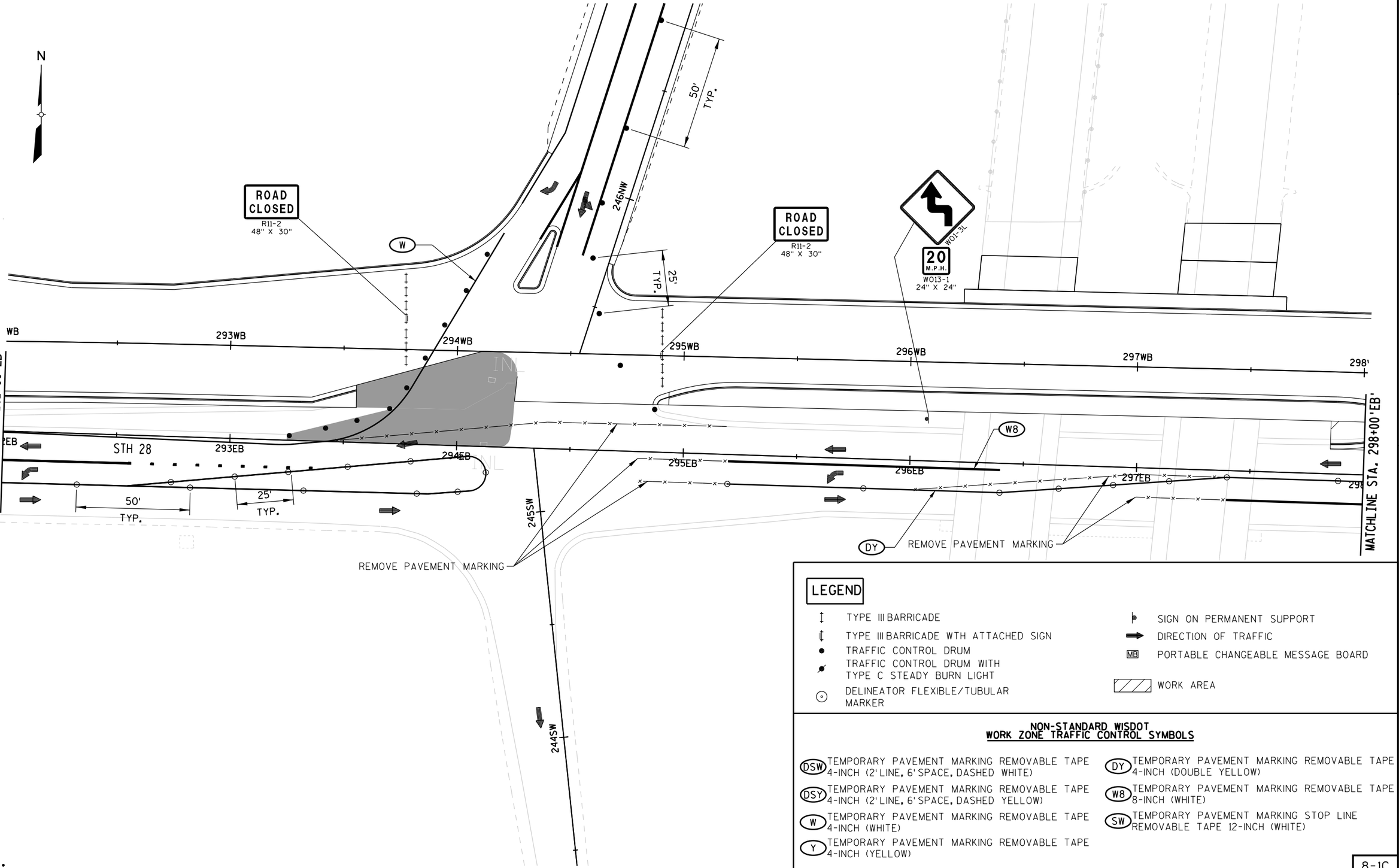
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

7-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 239 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026207_sIC.DGN
BATCH PRINT SHEET 43 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:50 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

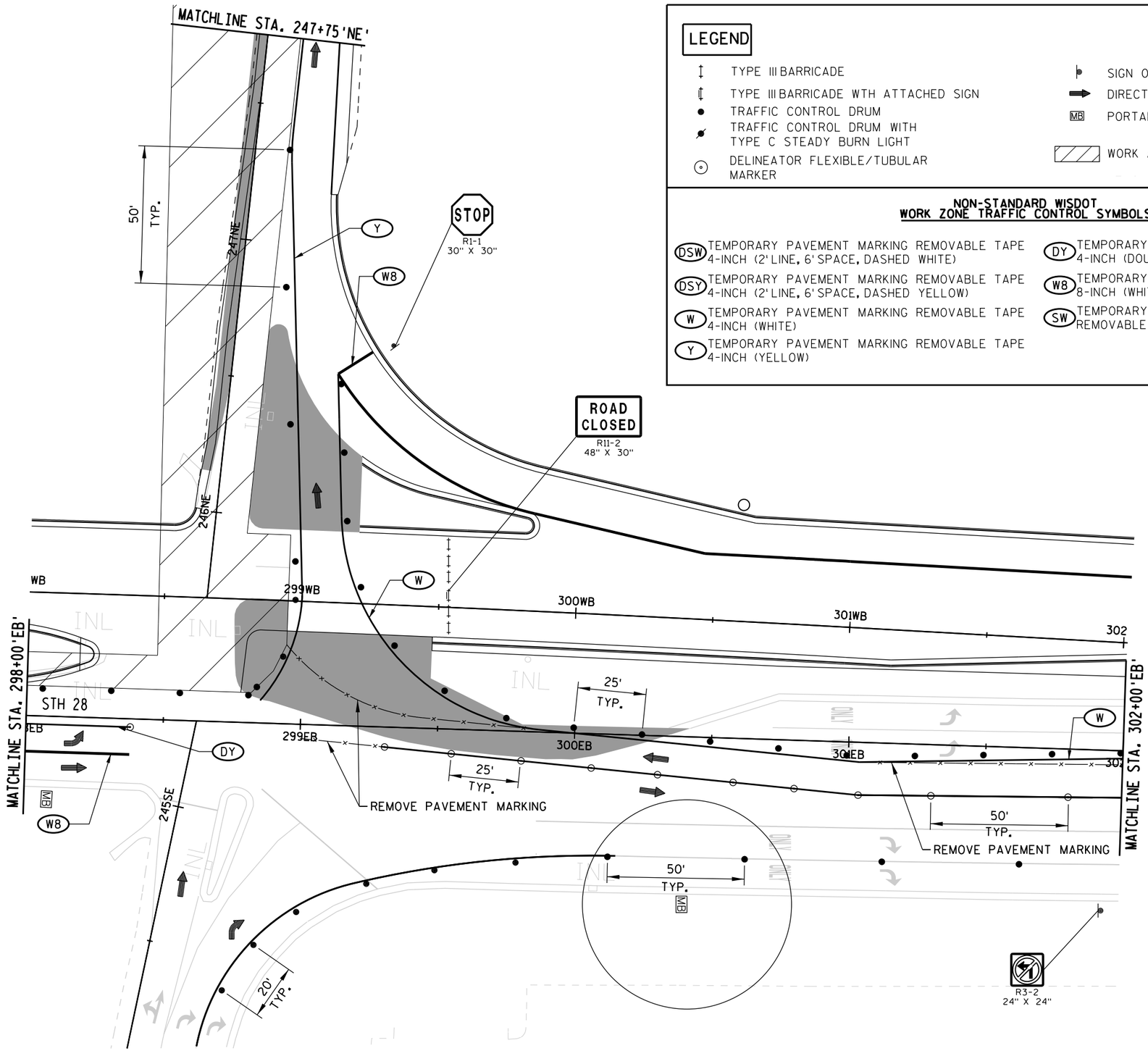
8-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE IC	SHEET 240	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026208_s1C.DGN
BATCH PRINT SHEET 44 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:54 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

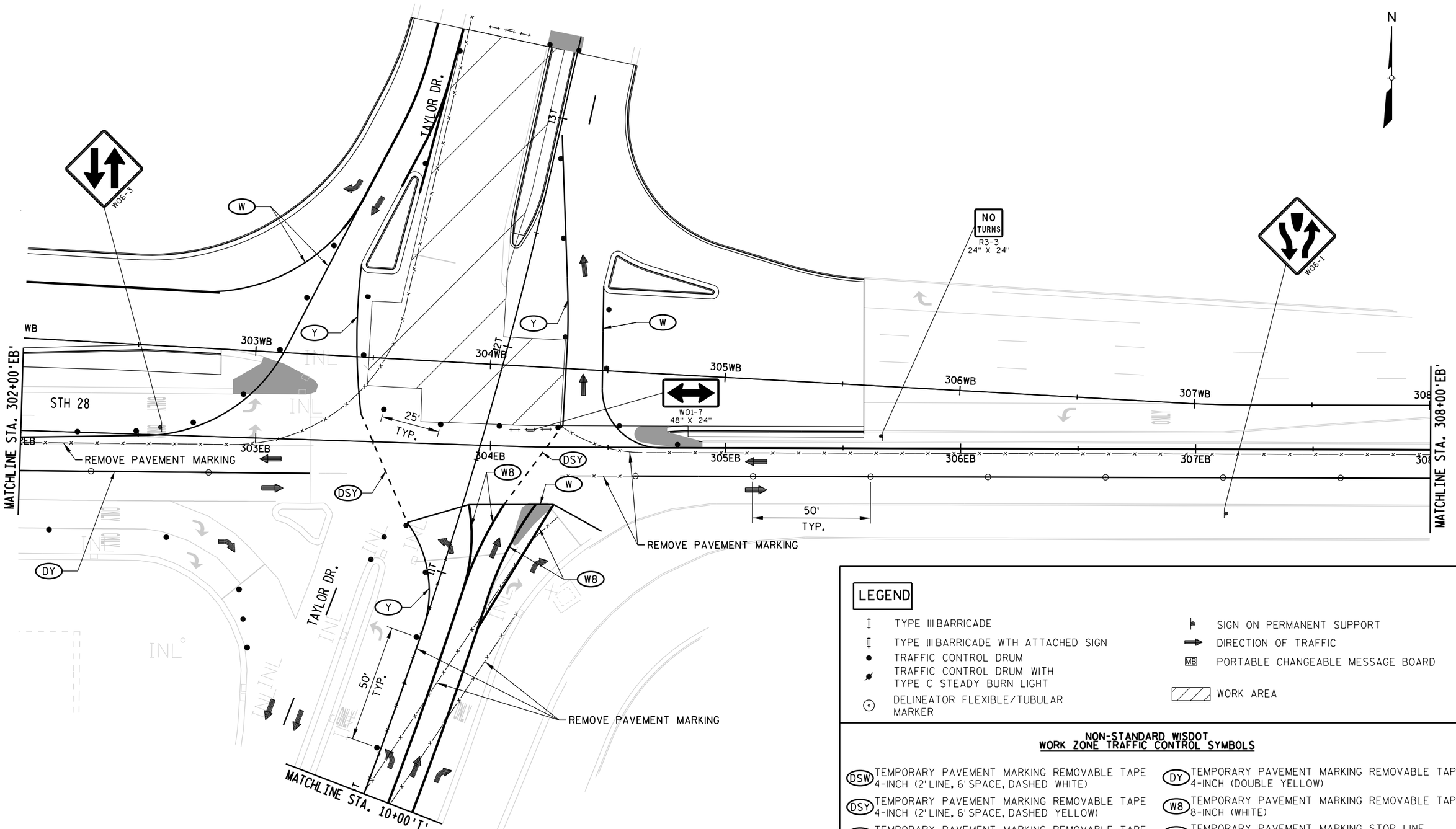
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

9-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 241 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026209_s1C.DGN
BATCH PRINT SHEET 45 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:40:57 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

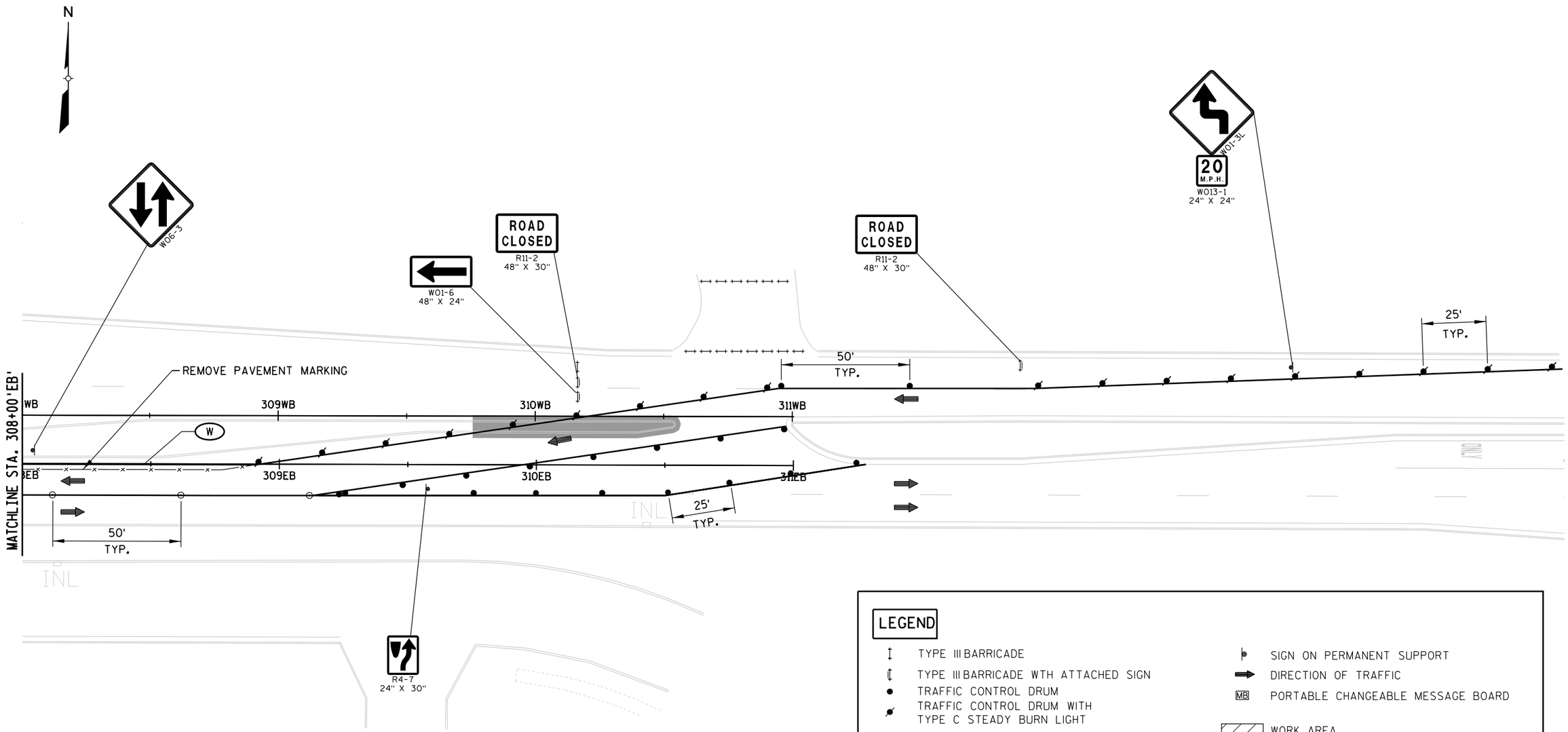
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

10-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 242	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026210_s1C.DGN
BATCH PRINT SHEET 46 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:41:00 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

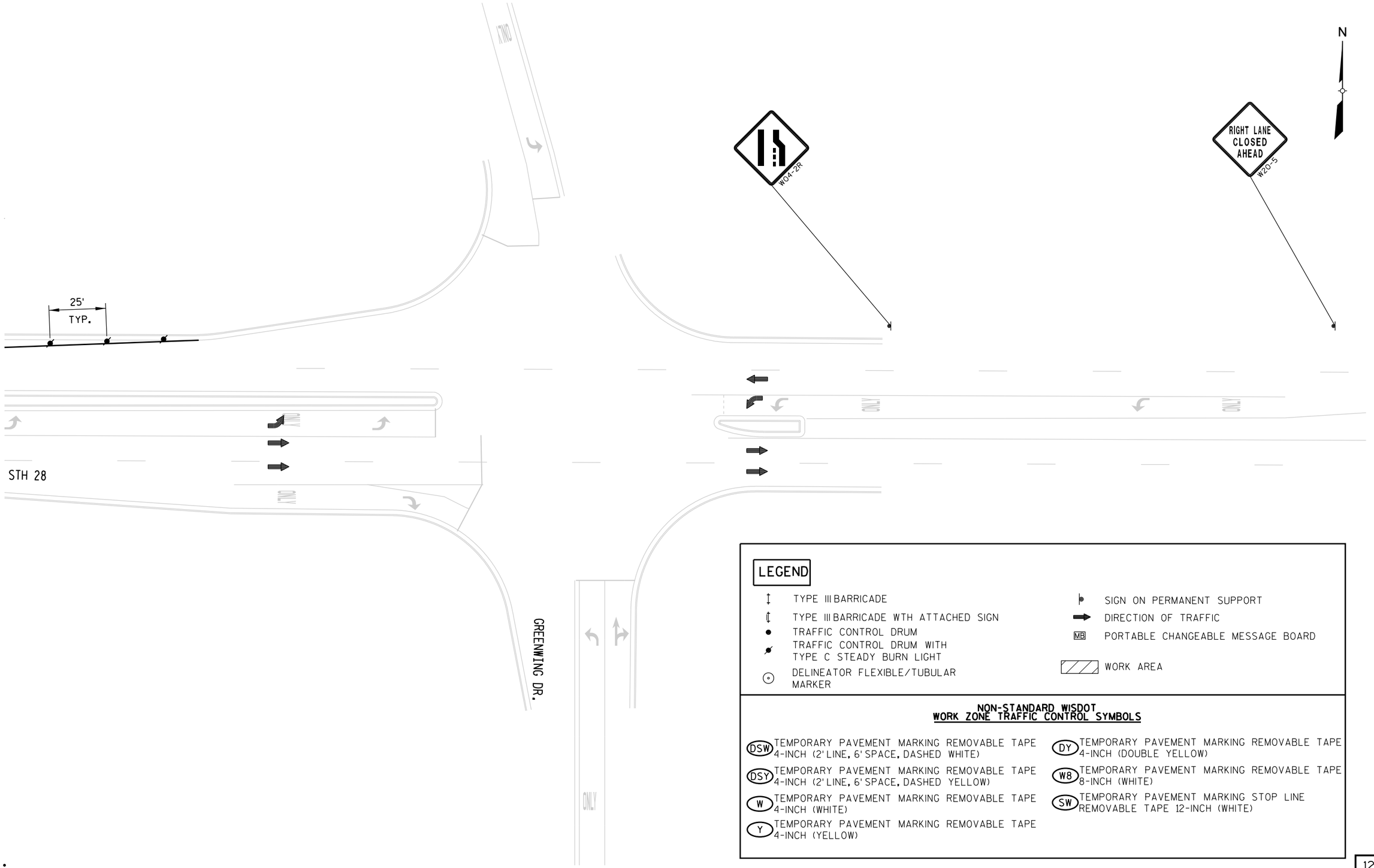
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

11-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 243	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026211_s1C.DGN
BATCH PRINT SHEET 47 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/13/2014
PLOT TIME: 1:41:03 PM
PLOT SCALE: 1:40

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

12-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 244 E

2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

289EB
289WB
290EB
290WB
291EB
291WB
292EB
292WB
245A
246A
247A
248A
249A
ONLY
ONLY
ONLY
Y
DY
W
Y
REMOVE PAVEMENT MARKING
50' TYP.
25' TYP.
CTH A
MATCHLINE STA. 250+00 'A'
W01-3R
20 M.P.H.
W013-1
24" X 24"

13-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 245 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026213.s1C.DGN
BATCH PRINT SHEET 49 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:41:10 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

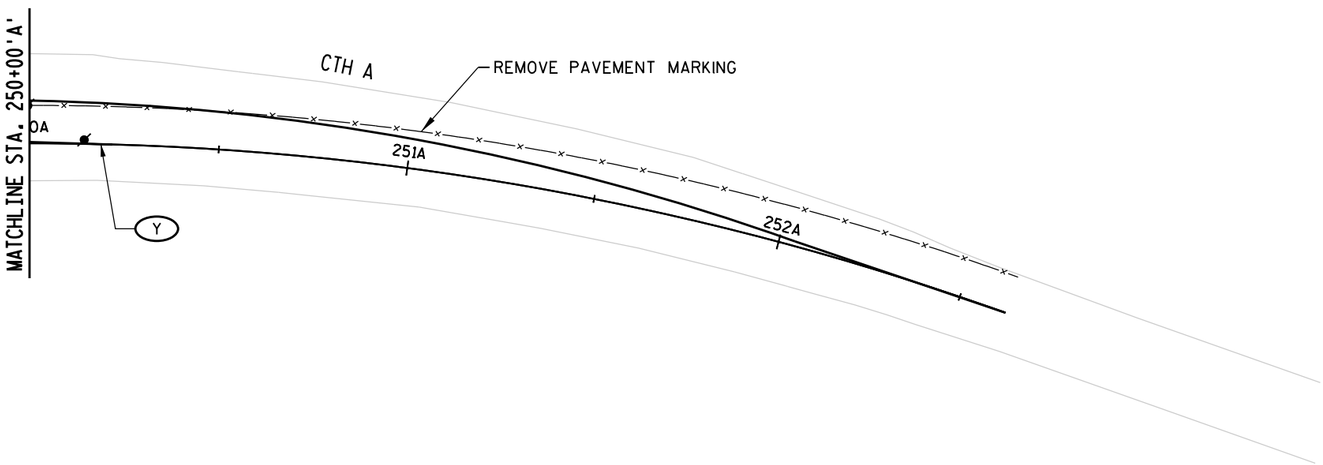
N

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



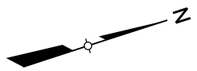
14-1C

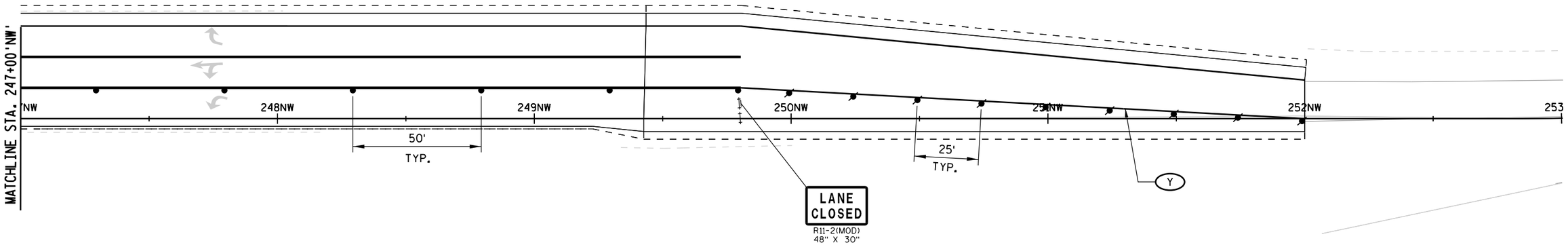
PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 246	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026214_s1C.DGN
BATCH PRINT SHEET 50 OF 54
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PLOT DATE: 12/13/2014
PLOT TIME: 1:41:13 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

14-1C





LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

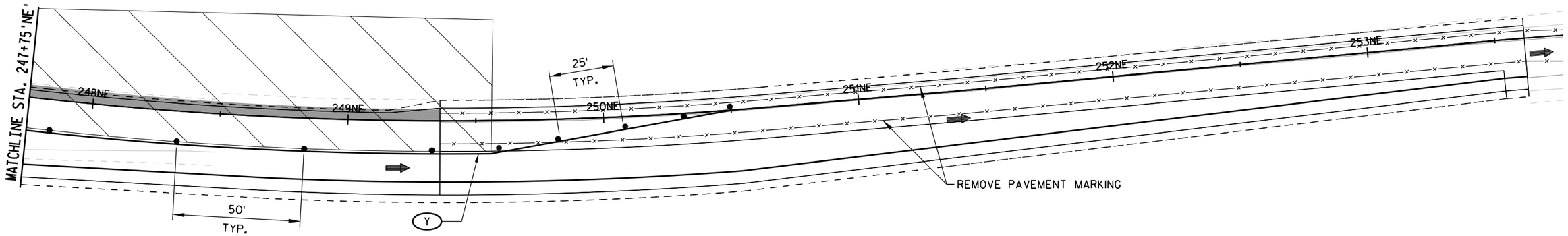
15-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 247	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026215_s1C.DGN
BATCH PRINT SHEET 51 OF 54
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PLOT DATE: 12/13/2014
PLOT TIME: 1:41:16 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

IH 43 NB

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

16-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 248	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026216_s1C.DGN
BATCH PRINT SHEET 52 OF 54
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/13/2014
PLOT TIME: 1:41:19 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

INL

6T

7T

TAYLOR DR.

25'
TYP.

8T

9T

10'
TYP.

50'
TYP.

MATCHLINE STA. 10+00'T'

Y

LEFT LANE
MUST
TURN LEFT
R3-7L
30" X 30"

REMOVE PAVEMENT MARKING

W04-2L

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

17-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 249	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026217_s1C.DGN
BATCH PRINT SHEET 53 OF 54
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PLOT DATE: 12/13/2014
PLOT TIME: 1:41:23 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

LANE CLOSED
R11-2(MOD)
48" X 30"

REMOVE PAVEMENT MARKING

Y

W8

LANE CLOSED
R11-2(MOD)
48" X 30"

Y

TAYLOR DR.

50'
TYP.

25'
TYP.

25'
TYP.

LANE CLOSED
R11-2(MOD)
48" X 30"

LEFT TURN LANE
R3-55L
24" X 30"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

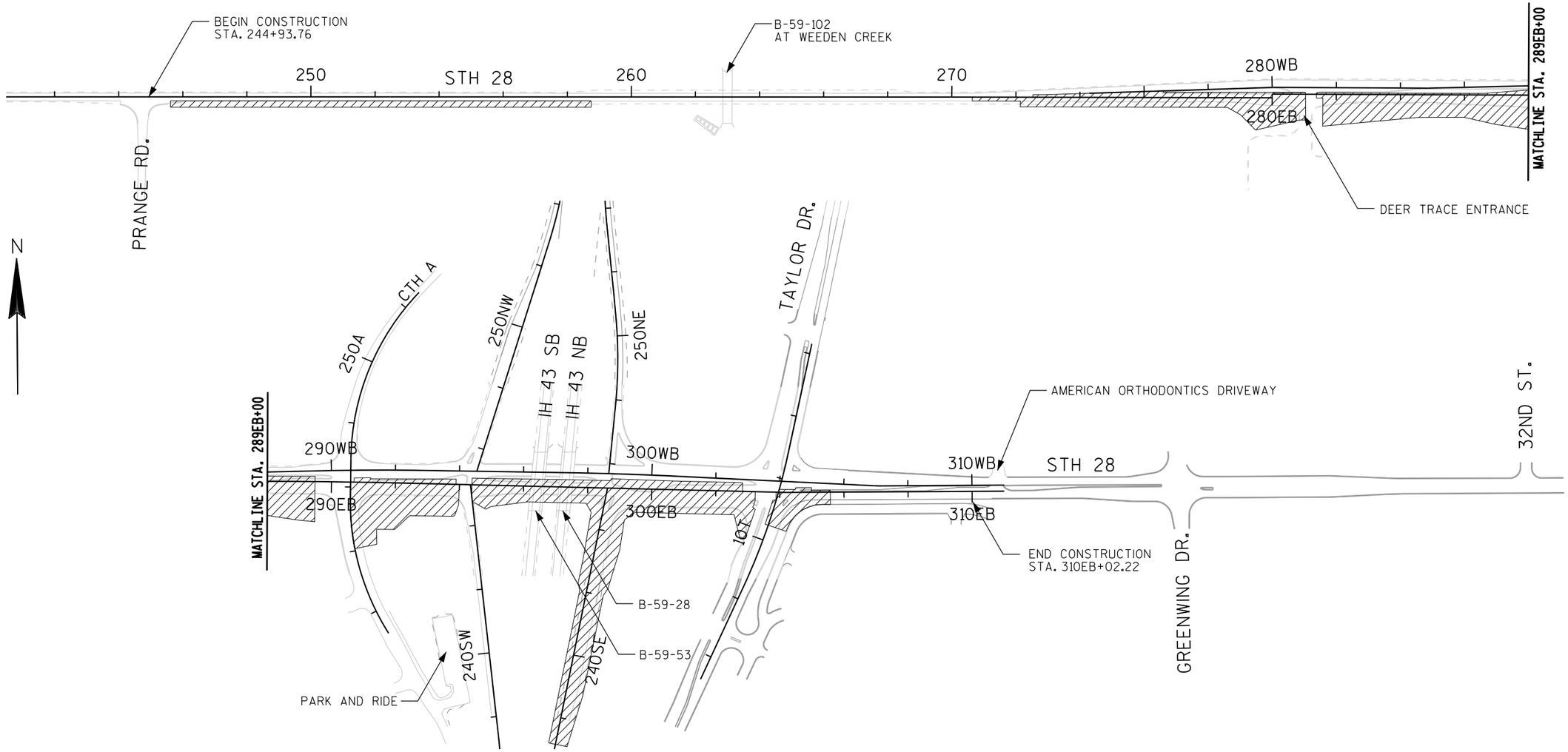
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

18-1C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 1C	SHEET 250	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026218_s1C.DGN
BATCH PRINT SHEET 54 OF 54
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PLOT DATE: 12/13/2014
PLOT TIME: 1:41:27 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



TRAFFIC

STH 28
STH 28 REDUCED TO 1-LANE TRAFFIC WITH FLAGGING OPERATIONS DURING CONSTRUCTION ACTIVITIES FROM PRANGE ROAD TO WEEDEN CREEK. WHEN CONSTRUCTION ACTIVITIES ARE NOT BEING PERFORMED, THE EASTBOUND SHOULDER IS CLOSED.

STH 28 REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION USING NEWLY CONSTRUCTED WESTBOUND ROADWAY FROM WEEDEN CREEK TO GREENWING DRIVE. A RIGHT TURN LANE IS PROVIDED FOR EASTBOUND STH 28 AT THE IH 43 SOUTHBOUND ON-RAMP AND FOR WESTBOUND STH 28 AT THE IH 43 NORTHBOUND ON-RAMP AND TAYLOR DRIVE. A LEFT TURN LANE IS PROVIDED FOR EASTBOUND STH 28 AT THE IH 43 NORTHBOUND ON-RAMP AND FOR WESTBOUND STH 28 AT CTH A AND IH 43 SOUTHBOUND ON-RAMP. ALL LEFT TURNS AND EASTBOUND RIGHT TURNS PROHIBITED AT TAYLOR DRIVE. THE LEFT TURN LANE AT THE AMERICAN ORTHODONTICS DRIVEWAY IS CLOSED. ALTERNATE ROUTES TO AND FROM TAYLOR DRIVE ARE IN PLACE WITH TEMPORARY SIGNALS IN OPERATION AT 32ND STREET.

IH 43 RAMPS
IH 43 NORTHBOUND OFF-RAMP CLOSED. IH 43 SOUTHBOUND OFF-RAMP INSIDE LEFT LANE CLOSED, REDUCED TO ONE LEFT TURN LANE.

TAYLOR DRIVE
TAYLOR DRIVE REDUCED TO 1-LANE TRAFFIC FOR NORTHBOUND TAYLOR DRIVE TRAFFIC ONLY. ALL LEFT TURNS AND NORTHBOUND RIGHT TURNS PROHIBITED FOR TAYLOR DRIVE TRAFFIC AT STH 28.

CTH A
CTH A REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION. NORTHBOUND LEFT AND RIGHT TURNS COMBINED WITH THROUGH LANE. A RIGHT TURN LANE IS PROVIDED FOR SOUTHBOUND CTH A TRAFFIC AT STH 28.

CONSTRUCTION

STH 28
PERFORM SHOULDER WIDENING OF THE EASTBOUND SHOULDER FROM PRANGE ROAD TO WEEDEN CREEK.

PERFORM ROADWAY RECONSTRUCTION OF THE STH 28 EASTBOUND ROADWAY FROM WEEDEN CREEK TO EAST OF TAYLOR DRIVE, EXCEPT FOR GAPS AT THE DEER TRACE ENTRANCE, CTH A, IH 43 SOUTHBOUND ON-RAMP, AND TAYLOR DRIVE. CONSTRUCT SIDEWALK FROM DEER TRACE ENTRANCE TO TAYLOR DRIVE.

PERFORM WING WALL REPLACEMENTS ON THE SOUTH SIDE OF THE WEEDEN CREEK BOX CULVERT B-59-102. PERFORM SLOPE PAVING ON THE SOUTH SIDE OF IH 43 BRIDGE STRUCTURES B-59-28 AND B-59-53.

IH 43 RAMPS
PERFORM RAMP RECONSTRUCTION, MILL, AND RESURFACE OF THE IH 43 NORTHBOUND OFF-RAMP.

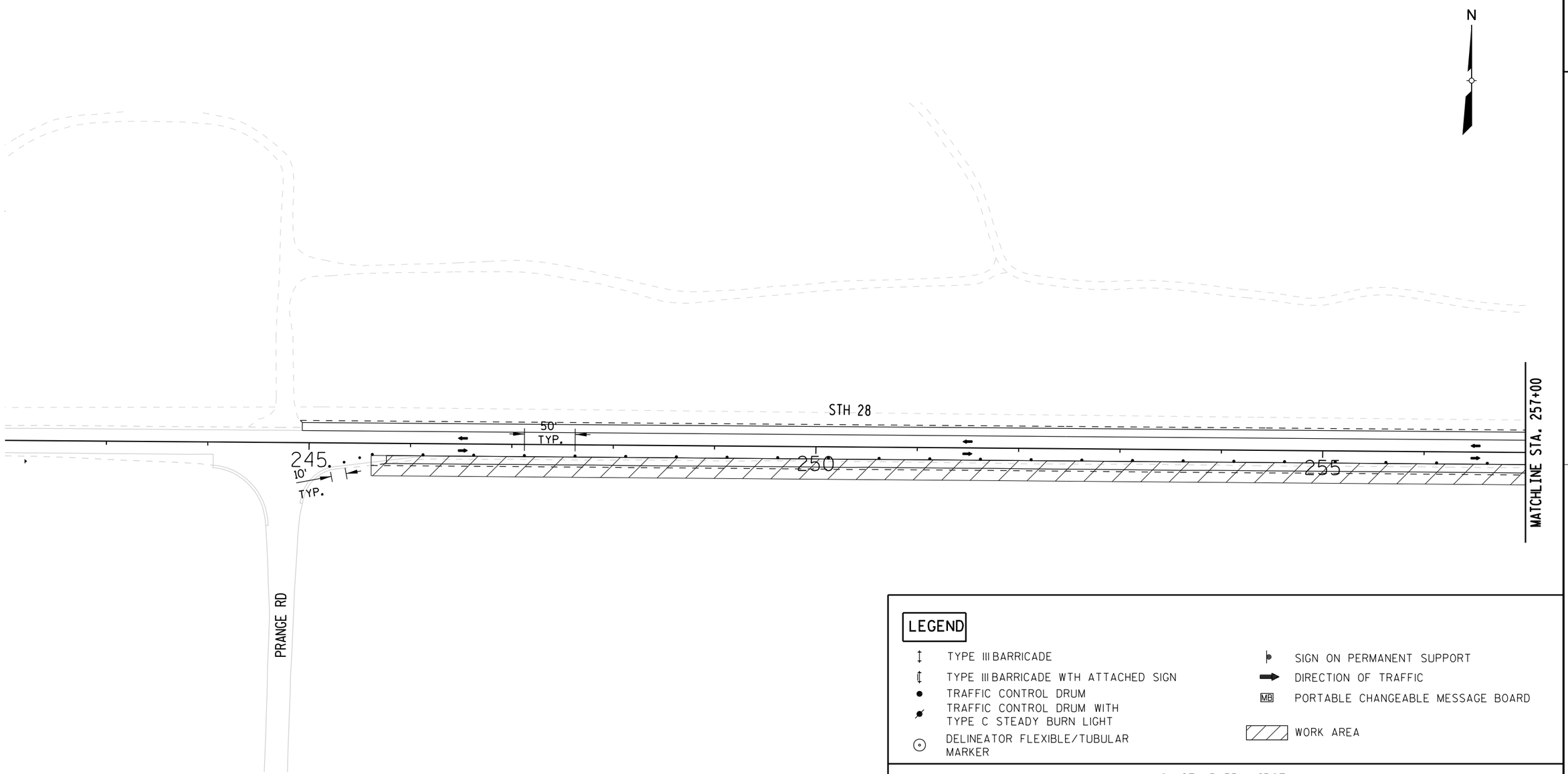
TAYLOR DRIVE
PERFORM ROADWAY RECONSTRUCTION OF THE SOUTH LEG OF TAYLOR DRIVE AT STH 28, EXCEPT FOR GAPS.

CTH A
PERFORM ROADWAY RECONSTRUCTION OF THE SOUTH LEG OF CTH A AT STH 28, EXCEPT FOR GAPS.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL OVERVIEW: STAGE 2A	SHEET 251	E

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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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

1-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 252	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026301_s2A.DGN
BATCH PRINT SHEET 1 OF 21
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/14/2014
PLOT TIME: 9:25:29 AM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

2

N

MATCHLINE STA. 257+00

50'
TYP.

260

265

270

STH 28

REMOVE PAVEMENT MARKING

W

DY

MATCHLINE STA. 272+00

W06-3

DO NOT PASS

R4-1
24" X 30"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

2-2A

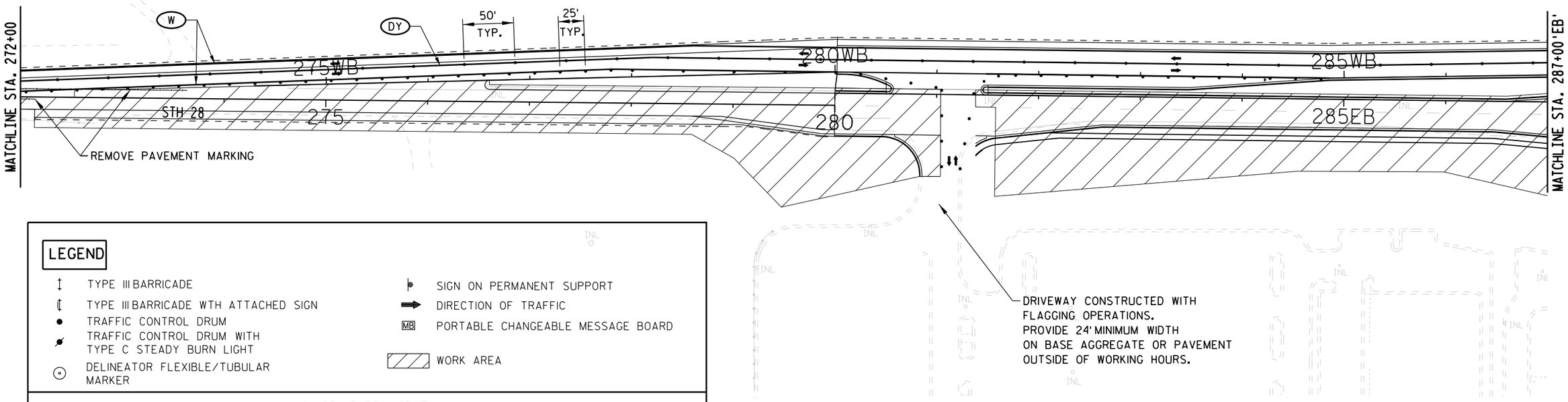
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FILE NAME: L:\Users\arbucklea\STH 28 - TC\026302_s2A.DGN
BATCH PRINT SHEET 2 OF 21
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/14/2014
PLOT TIME: 9:25:31 AM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

2

N

SEE SHEETS 8-2A TO 19-2A FOR MARKING AND SIGNING



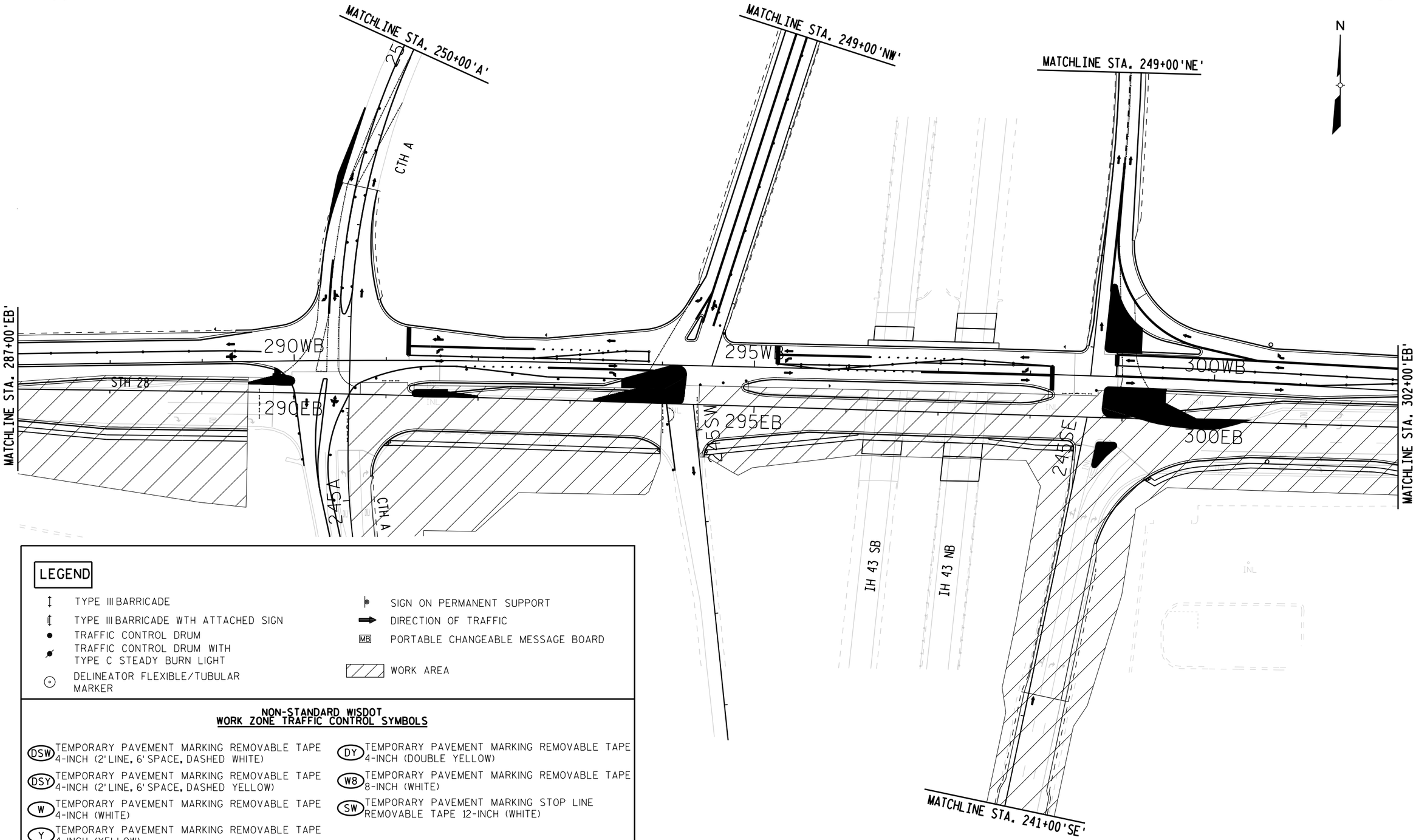
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

SEE SHEETS 8-2A TO 19-2A FOR MARKING AND SIGNING



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

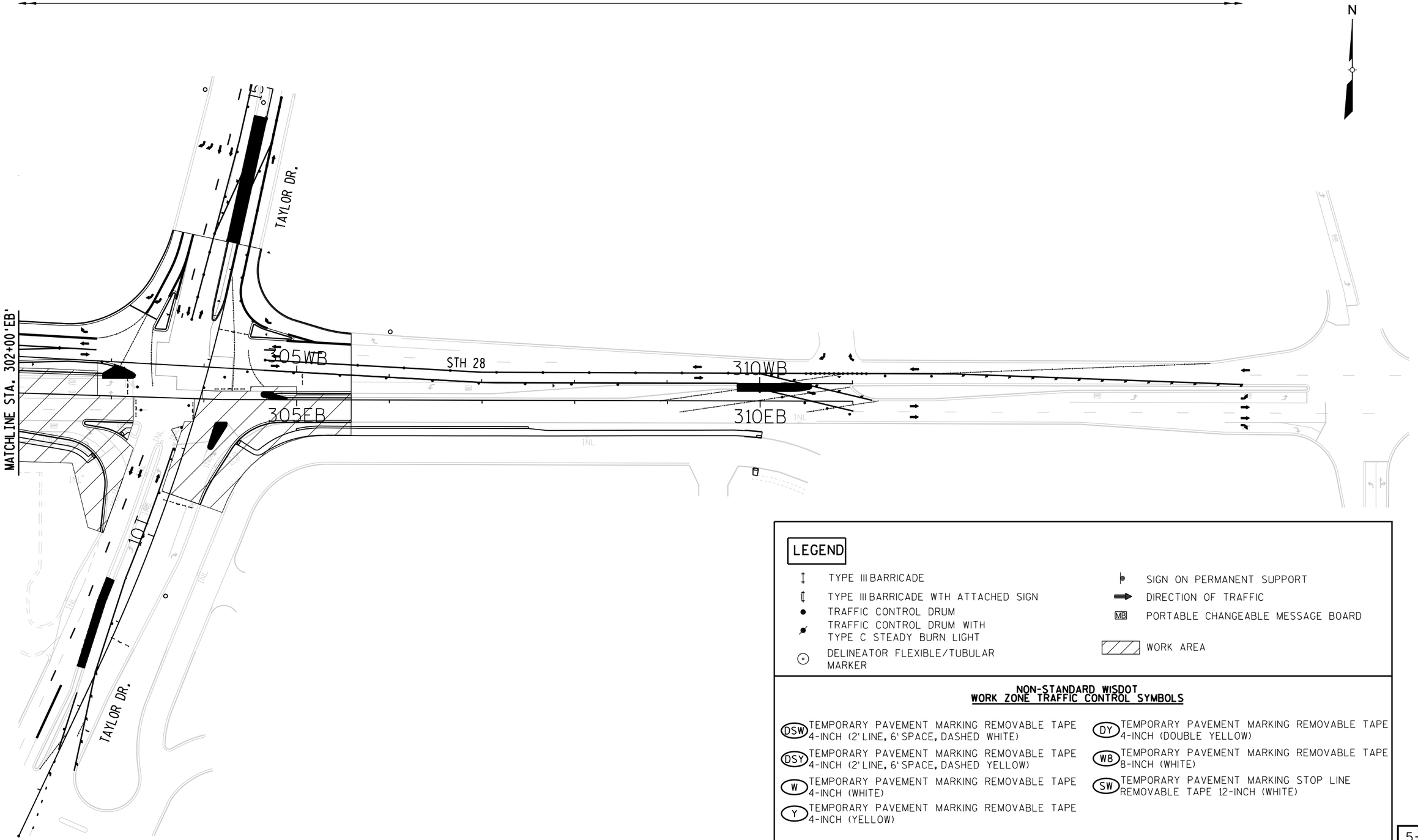
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

4-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 255	E

SEE SHEETS 8-2A TO 19-2A FOR MARKING AND SIGNING

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

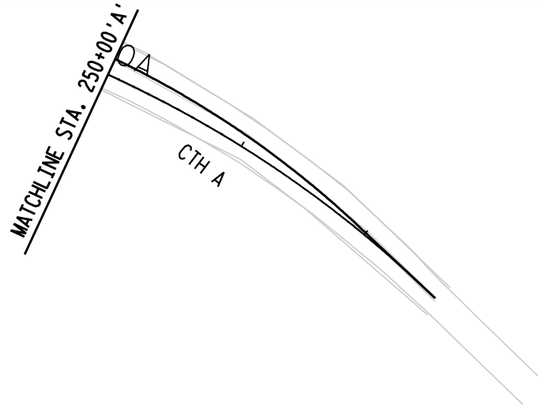
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

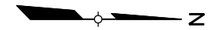
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

5-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 256 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026305_s2A.DGN
BATCH PRINT SHEET 5 OF 21
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/14/2014
PLOT TIME: 9:25:39 AM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42





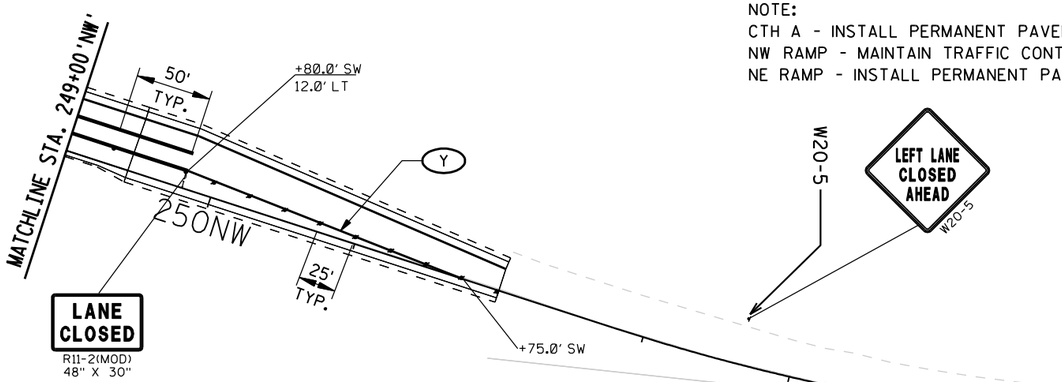
LEGEND

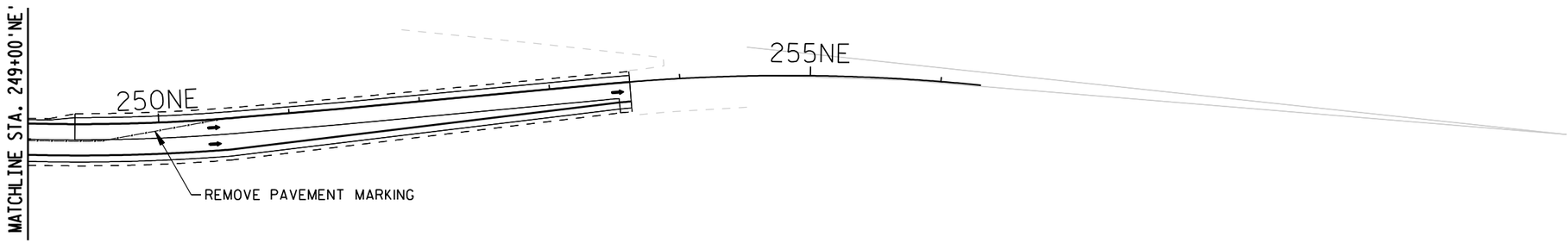
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT
WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

NOTE:
CTH A - INSTALL PERMANENT PAVEMENT MARKING AS SHOWN IN THE PAVEMENT MARKING DETAILS.
NW RAMP - MAINTAIN TRAFFIC CONTROL ITEMS AS SHOWN ON SHEET X-1C.
NE RAMP - INSTALL PERMANENT PAVEMENT MARKINGS AS SHOWN IN THE PAVEMENT MARKING DETAILS.





6-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 257 E

FILE NAME: L:\work\106730\Trans\STH 28\CADD\Sheets\STH 28 - TC\026306_s2a.DGN
BATCH PRINT SHEET OF
PRINTER DRIVER: C:\Users\stevensons\Desktop\Cadd\CADD Setup\ET_PDF_11 x 17.plt
PEN TABLE: L:\work\106730\Trans\STH 28\CADD\Sheets\ET_WisDOT.tbl
PLOT DATE: 11/18/2015
PLOT TIME: 10:27:12 AM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

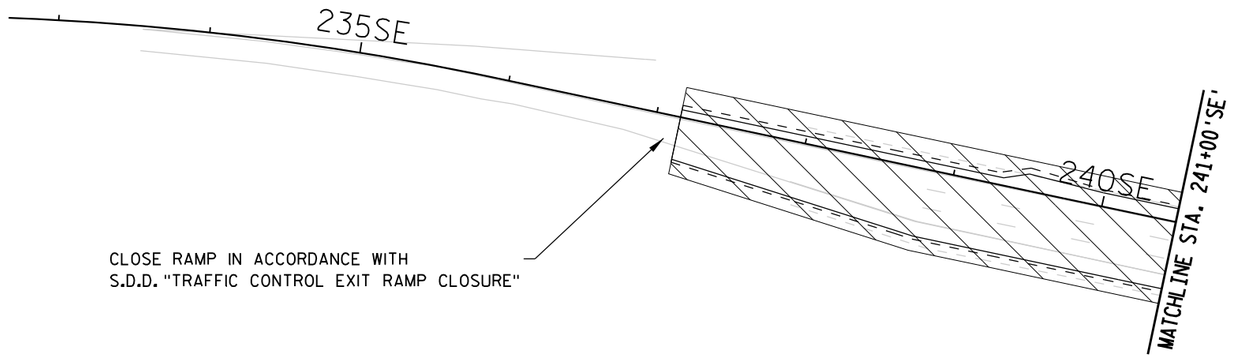
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

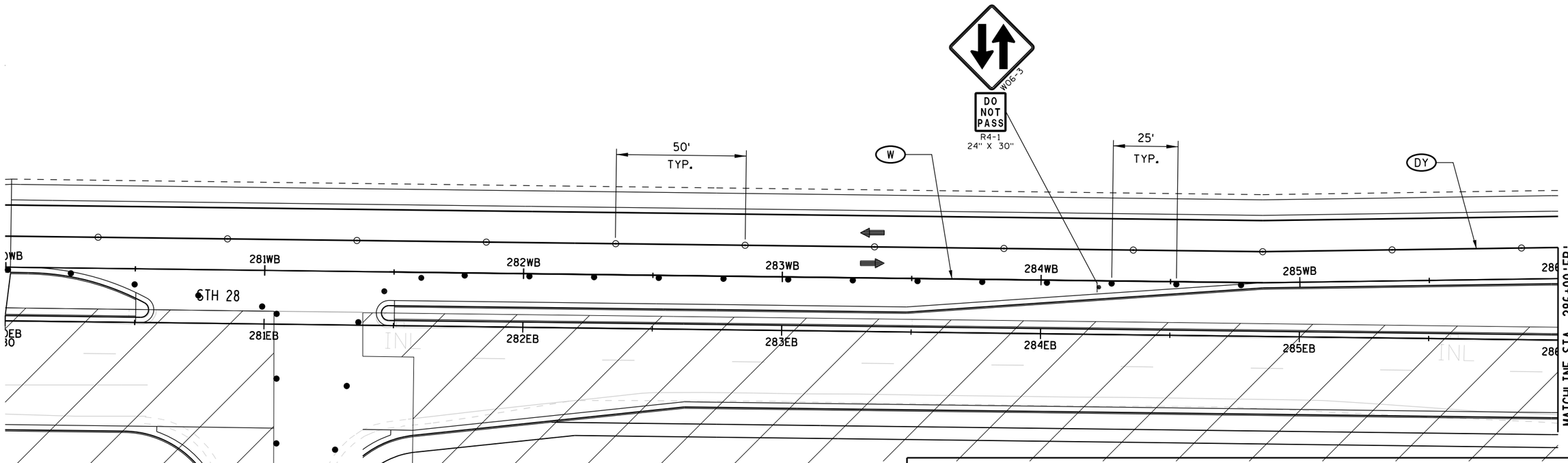
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

N



2

N



DRIVEWAY TO BE CONSTRUCTED
WITH FLAGGING OPERATIONS.
PROVIDE 24' MINIMUM WIDTH
ON BASE AGGREGATE OR PAVEMENT
OUTSIDE OF WORKING HOURS.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

8-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 259	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026308_s2A.DGN
BATCH PRINT SHEET 8 OF 21
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/14/2014
PLOT TIME: 9:25:47 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

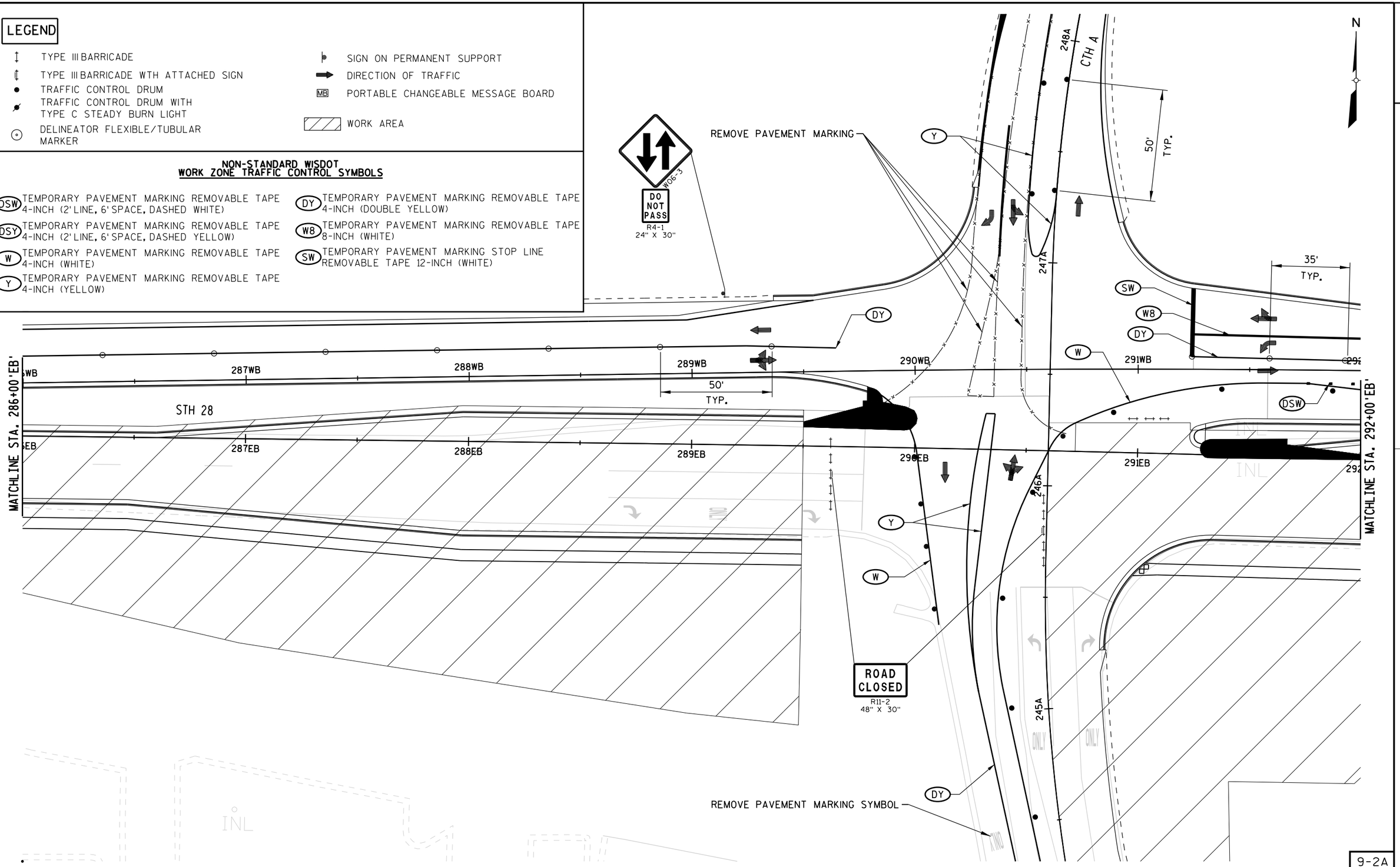
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

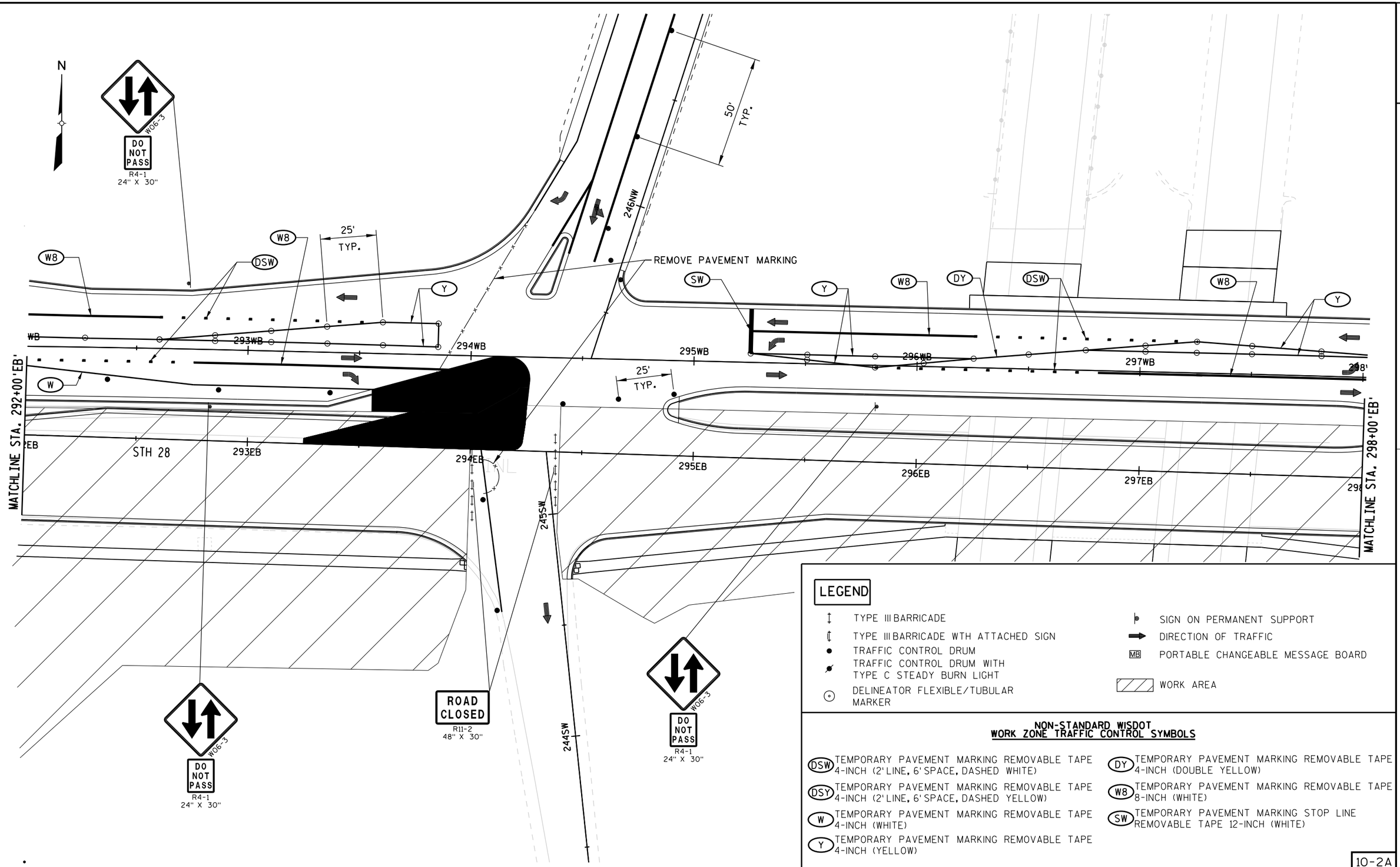
- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



9-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 260 E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

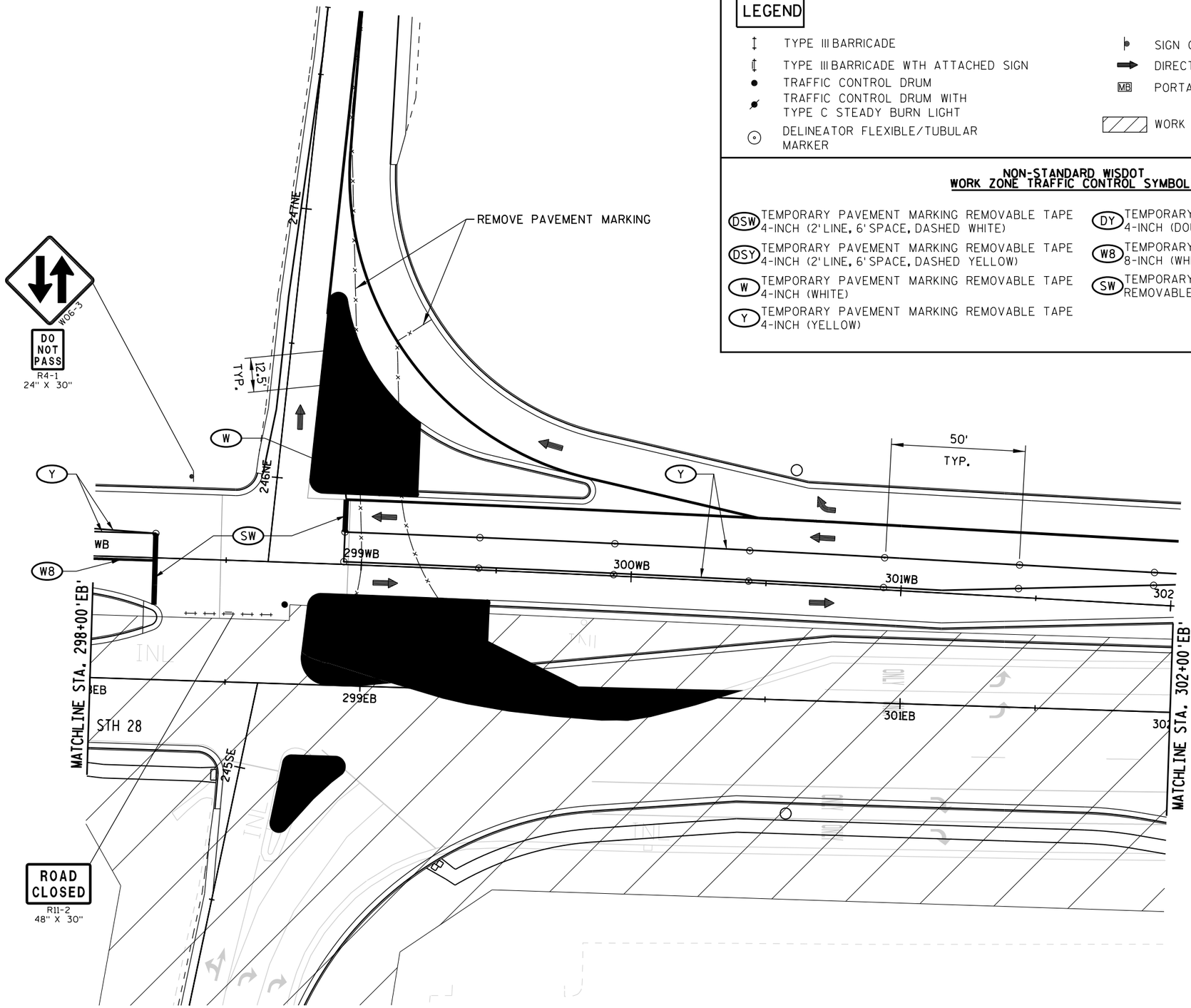
10-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 261 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026310_s2A.DGN
BATCH PRINT SHEET 10 OF 21
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/14/2014
PLOT TIME: 9:25:53 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

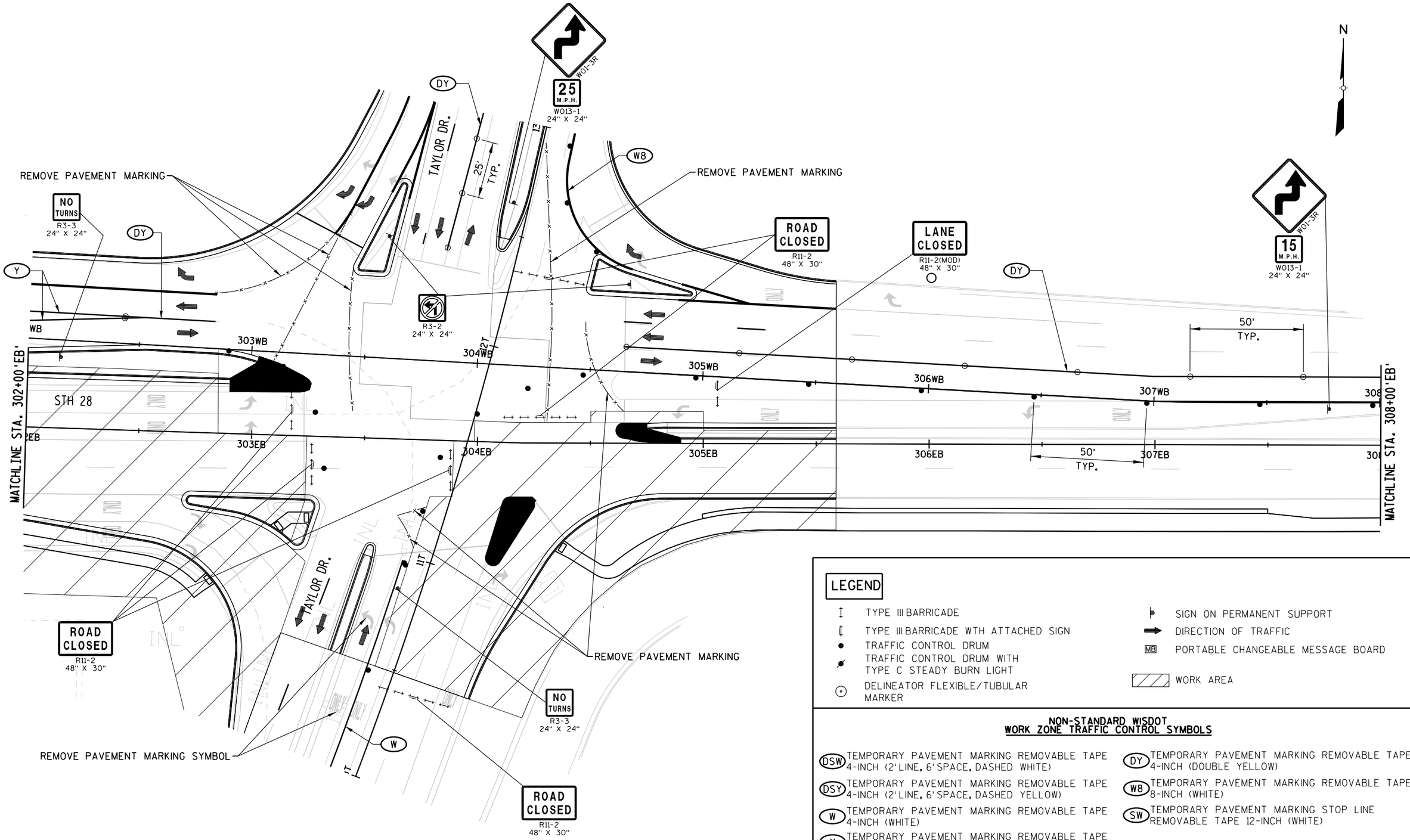
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

11-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 262 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026311_s2A.DGN
BATCH PRINT SHEET 11 OF 21
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/14/2014
PLOT TIME: 9:25:55 AM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

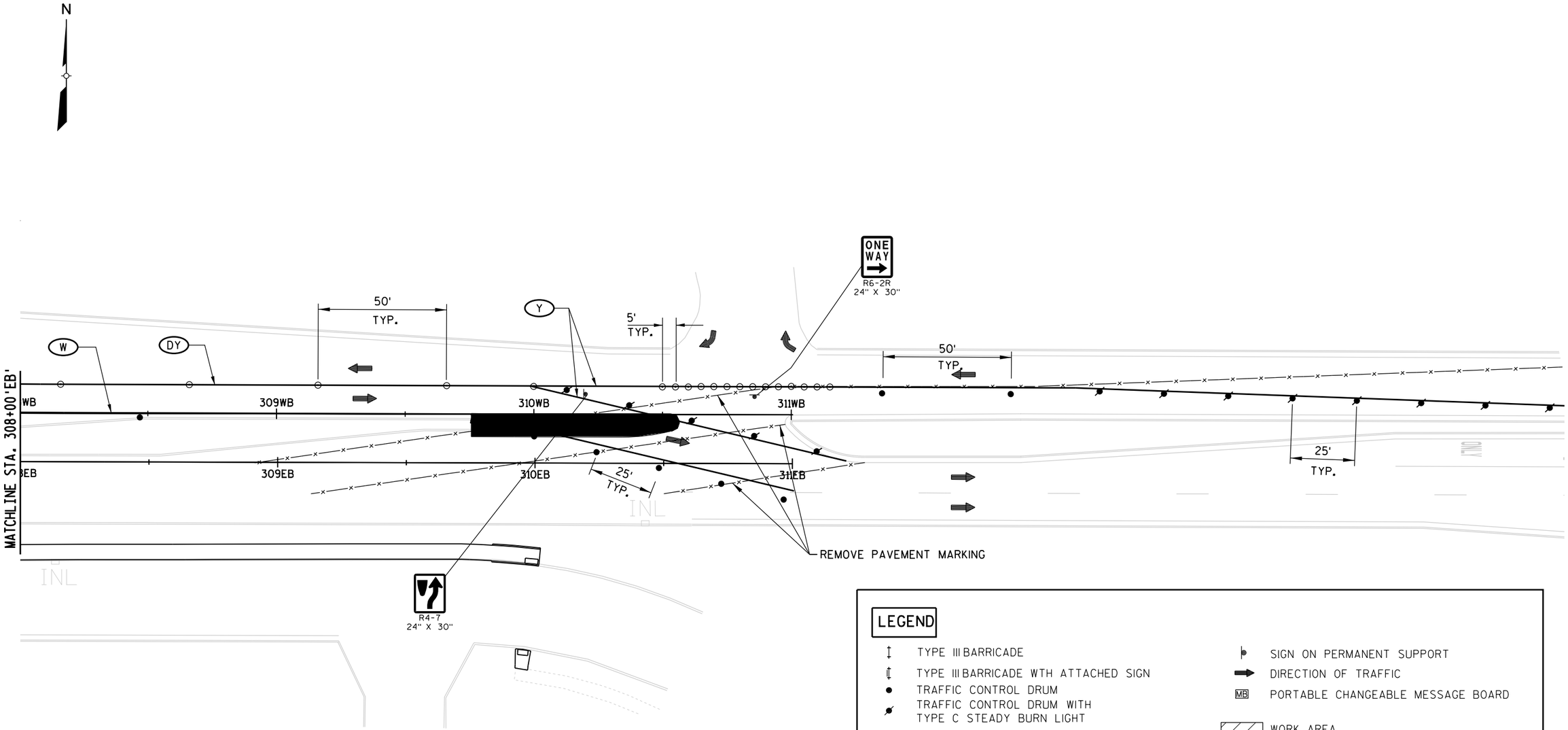
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

12-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 263	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026312_s2A.DGN
BATCH PRINT SHEET 12 OF 21
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/14/2014
PLOT TIME: 9:25:58 AM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

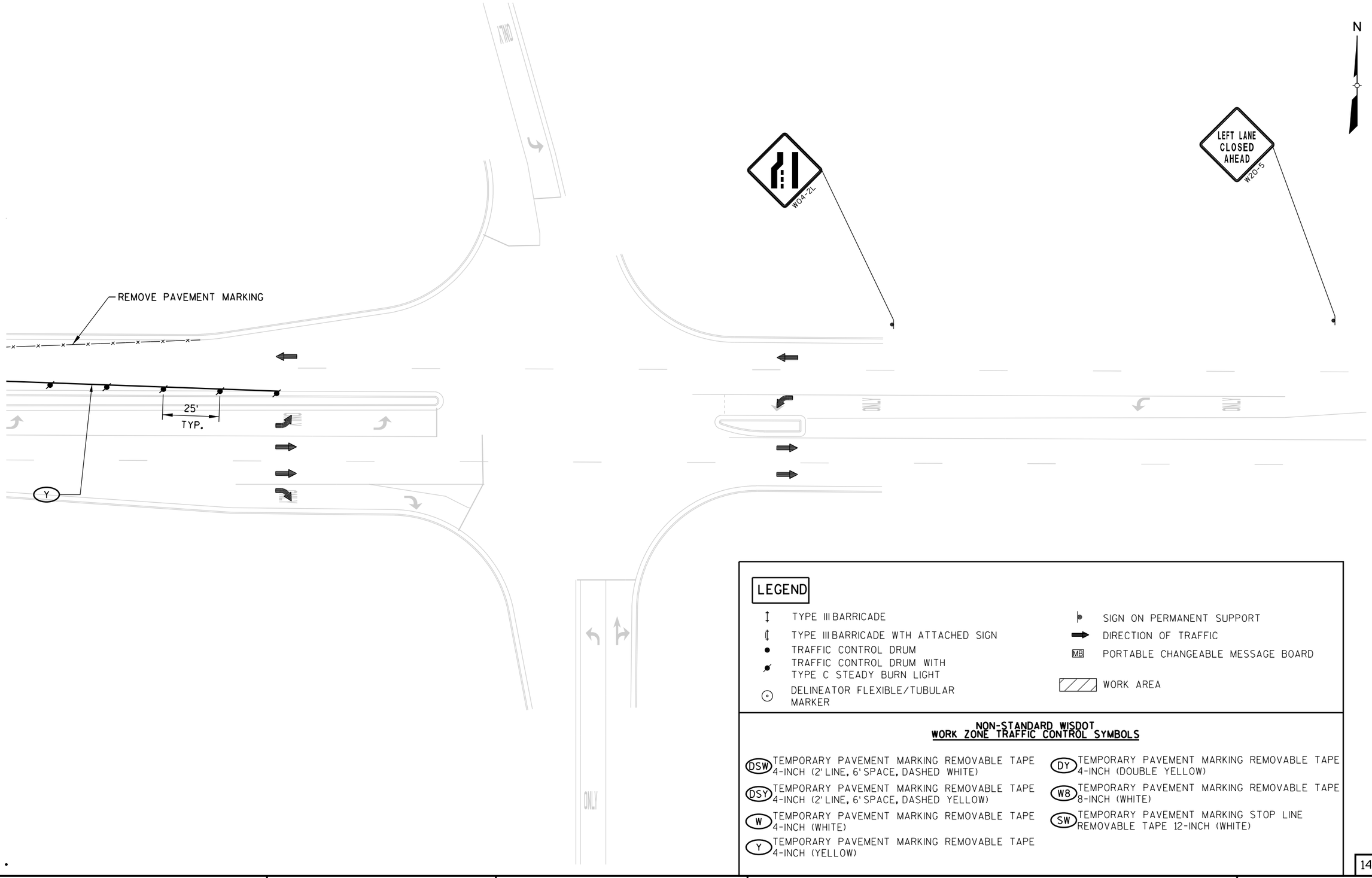
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

13-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 264	E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

14-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 265 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026314_s2A.DGN
BATCH PRINT SHEET 14 OF 21
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/14/2014
PLOT TIME: 9:26:03 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

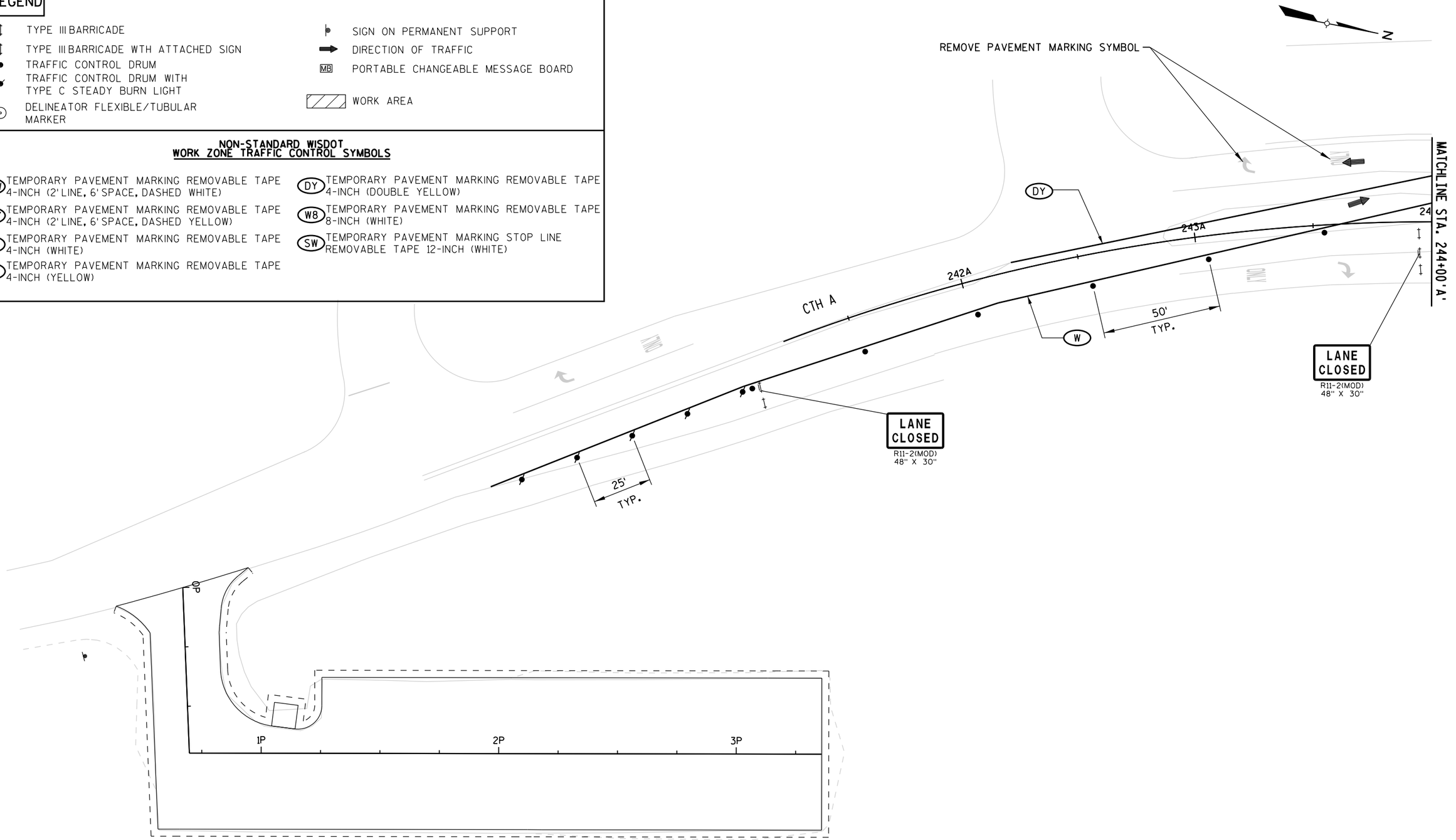
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

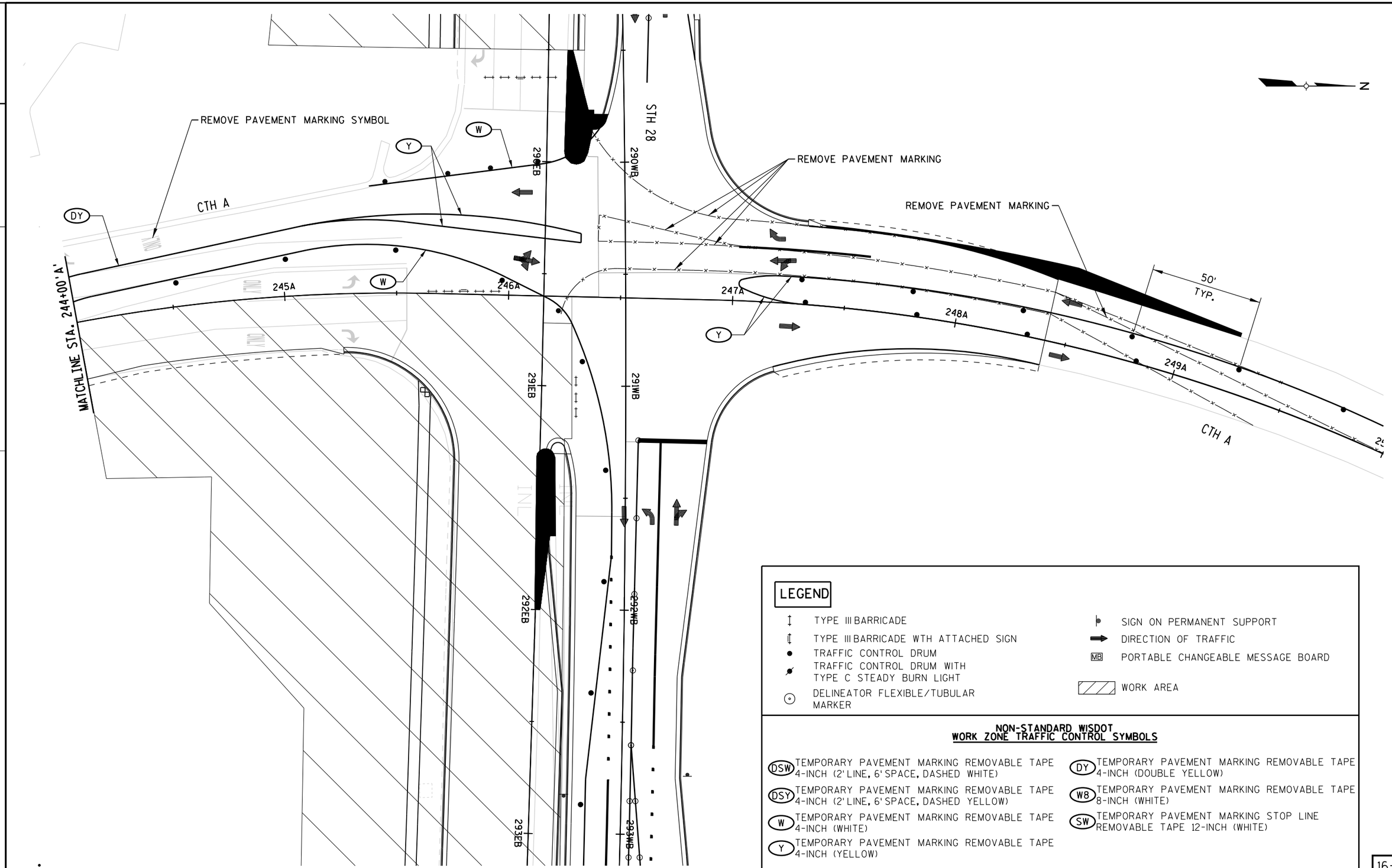


15-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 266	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026315_s2A.DGN
BATCH PRINT SHEET 15 OF 21
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/14/2014
PLOT TIME: 9:26:06 AM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

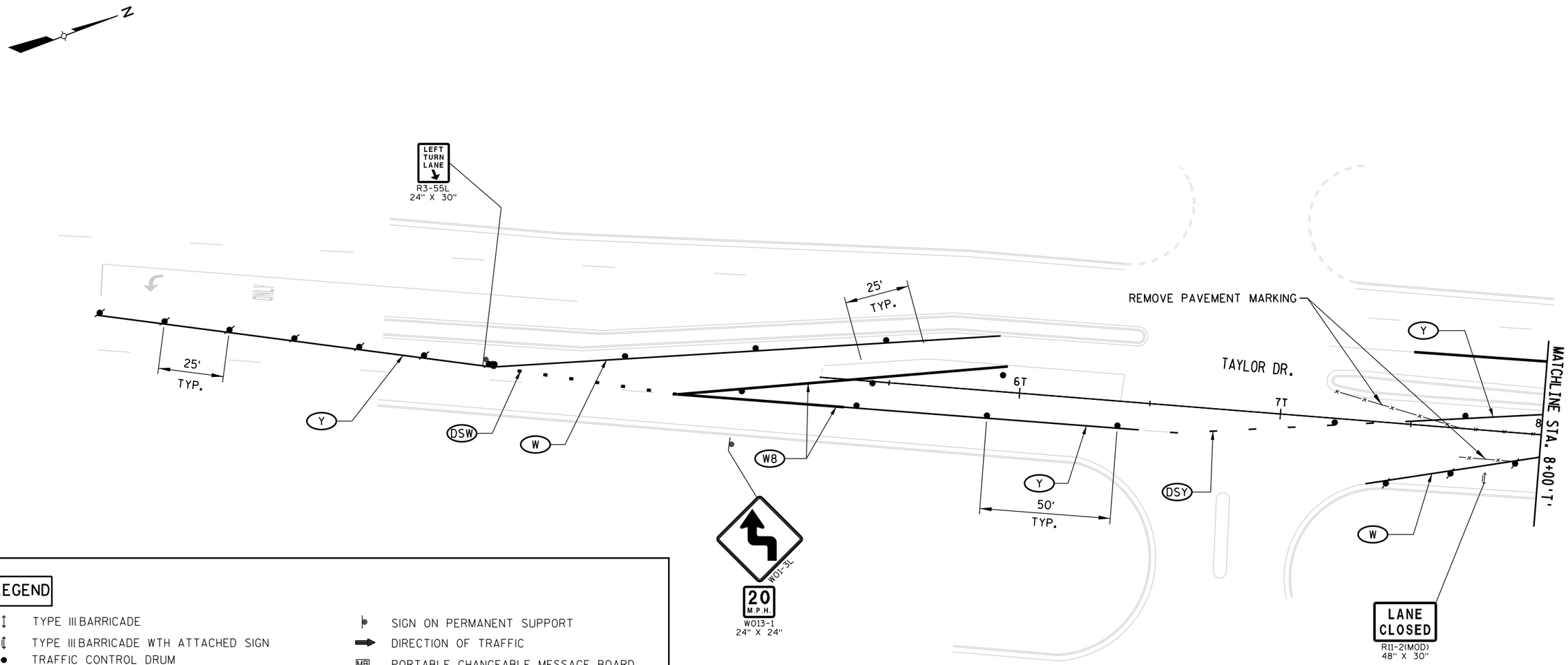
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

16-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 267	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026316_s2A.DGN
BATCH PRINT SHEET 16 OF 21
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PLOT DATE: 12/14/2014
PLOT TIME: 9:26:08 AM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

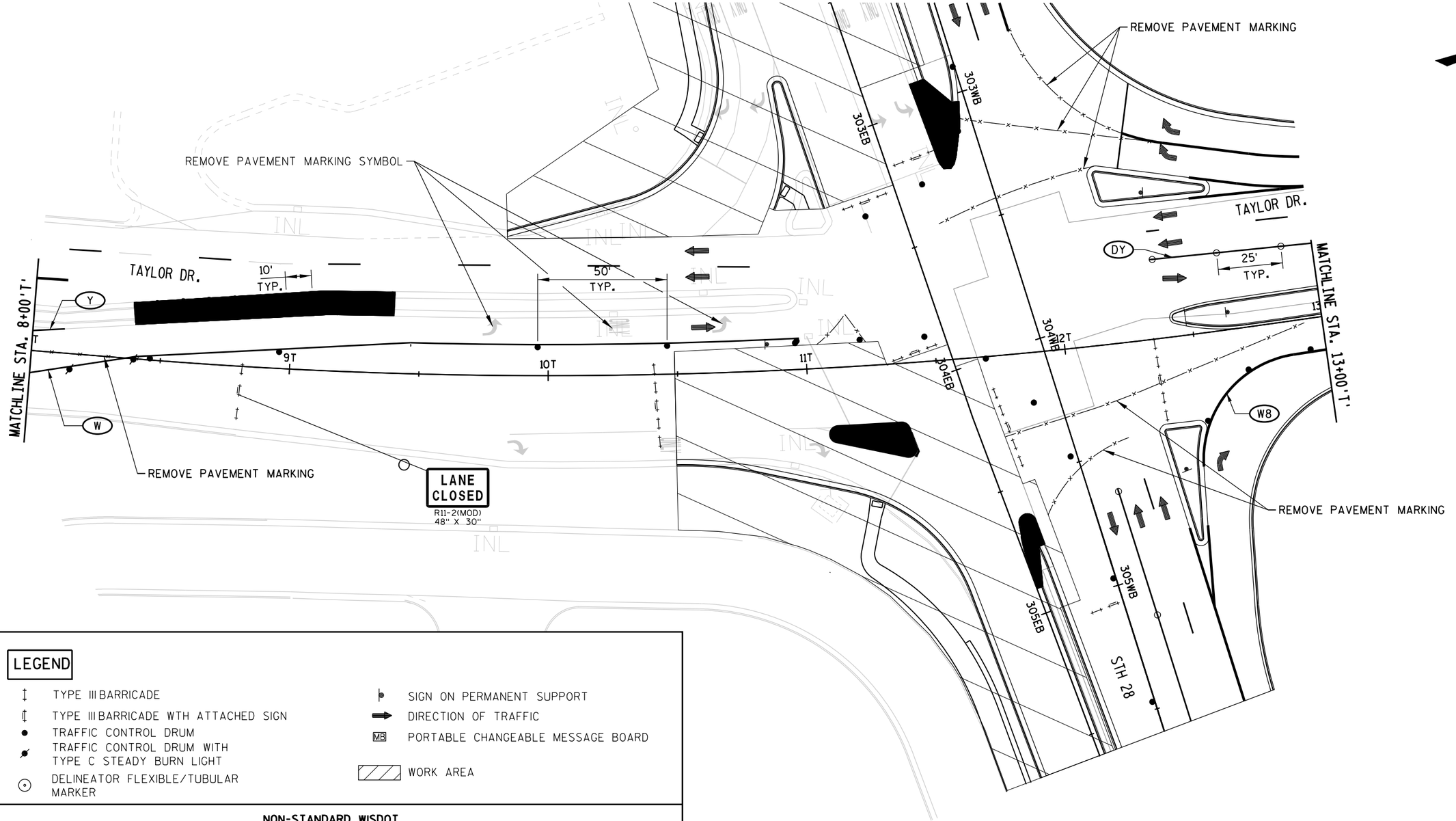
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

17-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 268 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026317_s2A.DGN
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PLOT DATE: 12/14/2014
PLOT TIME: 9:26:11 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2



SEE SHEET 12-2A FOR
SIGNS AT INTERSECTION

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

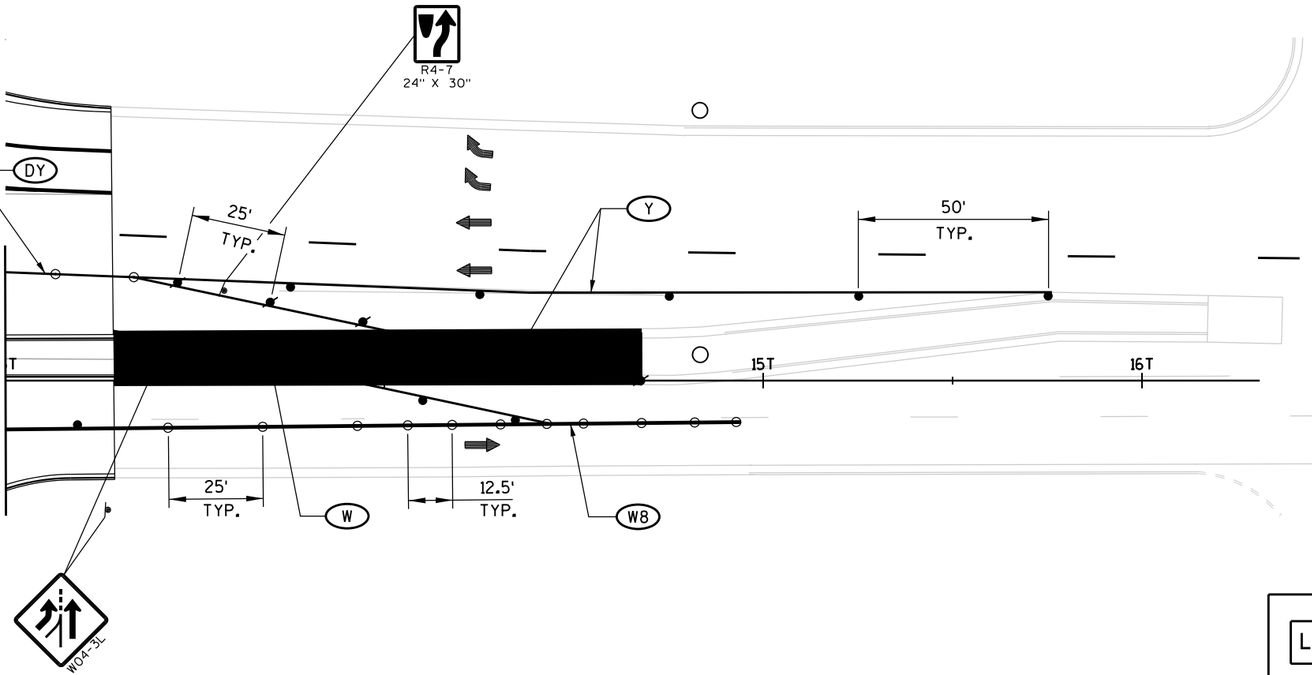
18-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 269	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026318_s2A.DGN
BATCH PRINT SHEET 18 OF 21
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PLOT DATE: 12/14/2014
PLOT TIME: 9:26:14 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N



TAYLOR DR.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

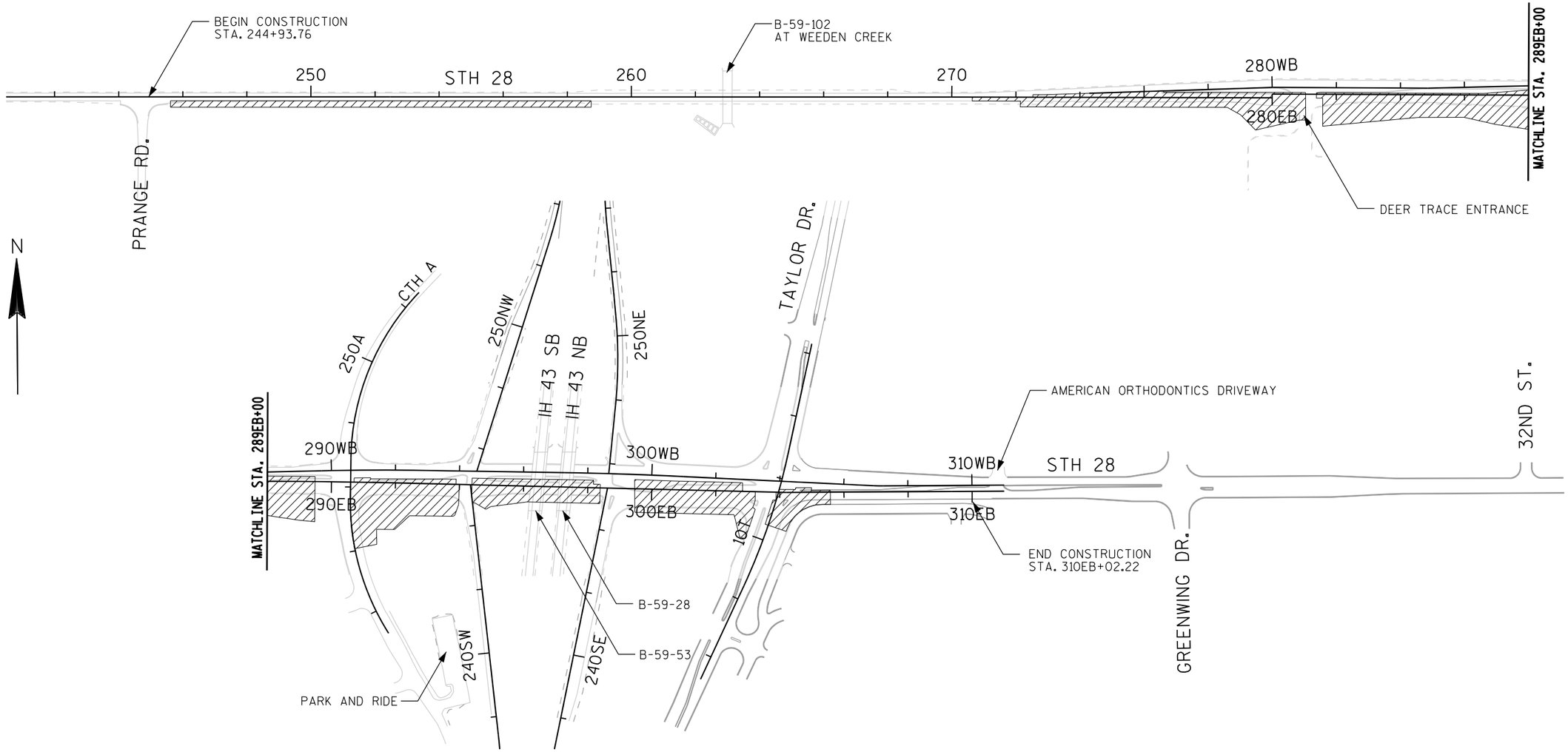
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

19-2A

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2A	SHEET 270 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026319_s2A.DGN
BATCH PRINT SHEET 19 OF 21
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PLOT DATE: 12/14/2014
PLOT TIME: 9:26:16 AM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



TRAFFIC

STH 28
TRAFFIC PATTERNS ON STH 28 WILL REMAIN FROM STAGE 2A.

IH 43 RAMPS
IH 43 NORTHBOUND OFF-RAMP IS OPEN. THE OUTSIDE RIGHT LANE IS CLOSED AND REDUCED TO ONE RIGHT TURN LANE. TRAFFIC PATTERNS ON THE OTHER RAMPS WILL REMAIN FROM STAGE 2A.

TAYLOR DRIVE
TRAFFIC PATTERNS ON TAYLOR DRIVE WILL REMAIN FROM STAGE 2A.

CTH A
TRAFFIC PATTERNS ON CTH A WILL REMAIN FROM STAGE 2A.

CONSTRUCTION

STH 28
CONSTRUCTION ACTIVITIES ON STH 28 WILL BE THE SAME AS STAGE 2A.

IH 43 RAMPS
NO CONSTRUCTION ACTIVTIES ON THE IH 43 RAMPS DURING THIS STAGE.

TAYLOR DRIVE
CONSTRUCTION ACTIVITIES ON TAYLOR DIRVE WILL BE THE SAME AS STAGE 2A.

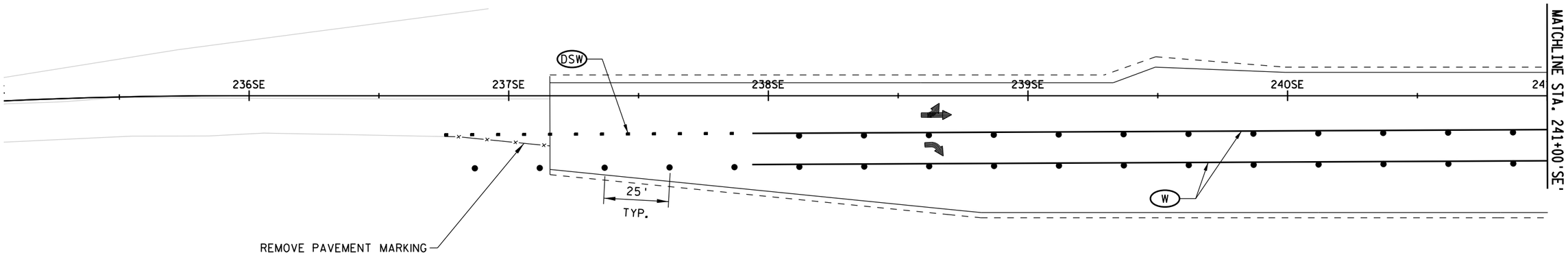
CTH A
CONSTRUCTION ACTIVITIES ON CTH A WILL BE THE SAME AS STAGE 2A.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL OVERVIEW: STAGE 2B	SHEET 271	E

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WISDOT/CADDS SHEET 42

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

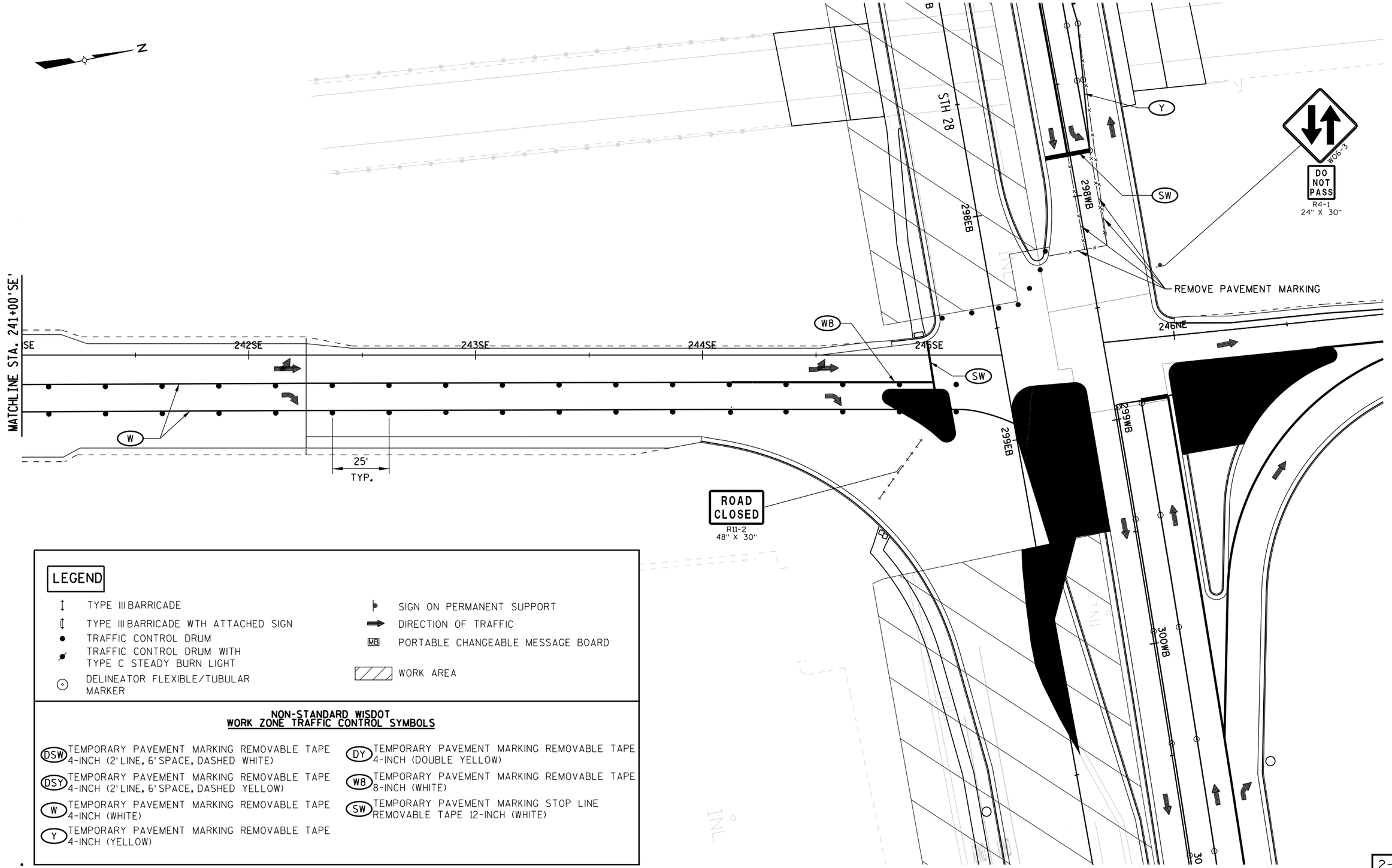
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

1-2B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2B	SHEET 272	E

2



LEGEND

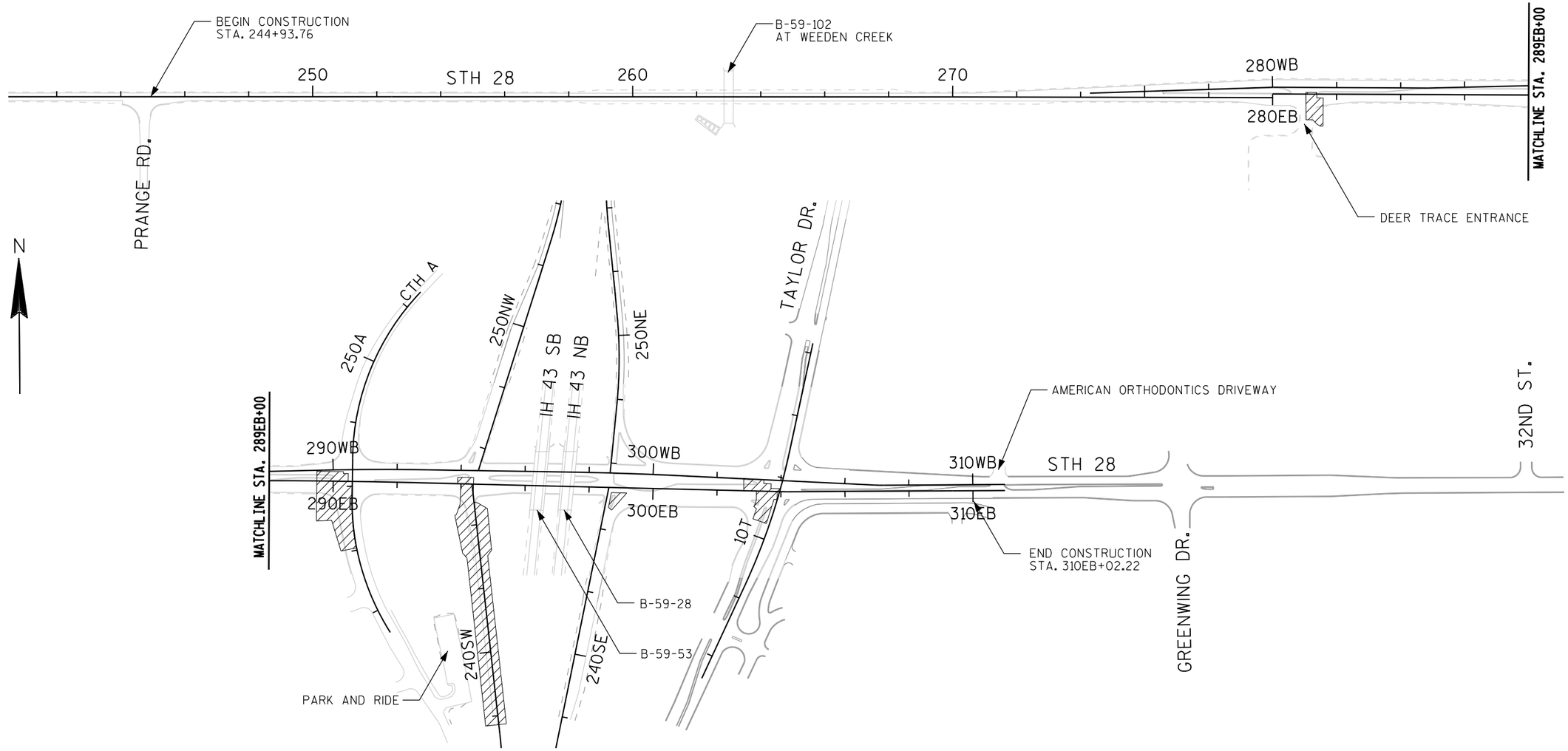
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

2-2B

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2B	SHEET 273	E



TRAFFIC

STH 28
STH 28 REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION USING NEWLY CONSTRUCTED WESTBOUND ROADWAY FROM WEEDEN CREEK TO GREENWING DRIVE. A RIGHT TURN LANE IS PROVIDED FOR WESTBOUND STH 28 AT THE IH 43 NORTHBOUND ON-RAMP AND TAYLOR DRIVE. A LEFT TURN LANE IS PROVIDED FOR EASTBOUND STH 28 AT THE IH 43 NORTHBOUND ON-RAMP AND FOR WESTBOUND STH 28 AT CTH A. ALL LEFT TURNS AND EASTBOUND RIGHT TURNS PROHIBITED AT TAYLOR DRIVE. THE LEFT TURN LANE AT THE AMERICAN ORTHODONTICS DRIVEWAY IS CLOSED. ALTERNATE ROUTES TO AND FROM TAYLOR DRIVE ARE IN PLACE WITH TEMPORARY SIGNALS IN OPERATION AT 32ND STREET.

IH 43 RAMPS
IH 43 SOUTHBOUND ON-RAMP CLOSED. IH 43 NORTHBOUND OFF-RAMP CENTER LANE CLOSED. THE OUTSIDE RIGHT TURN LANE IS FOR TRAFFIC TO SOUTHBOUND TAYLOR DRIVE ONLY. COMBINED LEFT AND RIGHT TURNS TO STH 28 IN THE INSIDE LEFT LANE. IH 43 SOUTHBOUND OFF-RAMP INSIDE LEFT LANE CLOSED, REDUCED TO ONE LEFT TURN LANE AND ONE RIGHT TURN LANE.

TAYLOR DRIVE
TAYLOR DRIVE REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION. ALL LEFT TURNS AND NORTHBOUND RIGHT TURNS PROHIBITED FOR TAYLOR DRIVE TRAFFIC AT STH 28.

CTH A
CTH A REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION. NORTHBOUND LEFT AND RIGHT TURNS COMBINED WITH THROUGH LANE. A RIGHT TURN LANE IS PROVIDED FOR SOUTHBOUND CTH A TRAFFIC AT STH 28.

CONSTRUCTION

STH 28
PERFORM ROADWAY RECONSTRUCTION OF THE STH 28 EASTBOUND ROADWAY FROM WEEDEN CREEK TO EAST OF TAYLOR DRIVE AT THE GAPS CREATED DURING STAGE 2A AND 2B AT THE DEER TRACE ENTRANCE, CTH A, IH 43 SOUTHBOUND ON-RAMP, AND TAYLOR DRIVE.

IH 43 RAMPS
PERFORM RAMP RECONSTRUCTION, MILLING, AND RESURFACING OF THE IH 43 SOUTHBOUND ON-RAMP. CONSTRUCT THE SPLITTER ISLAND ON THE IH 43 NORTHBOUND OFF-RAMP.

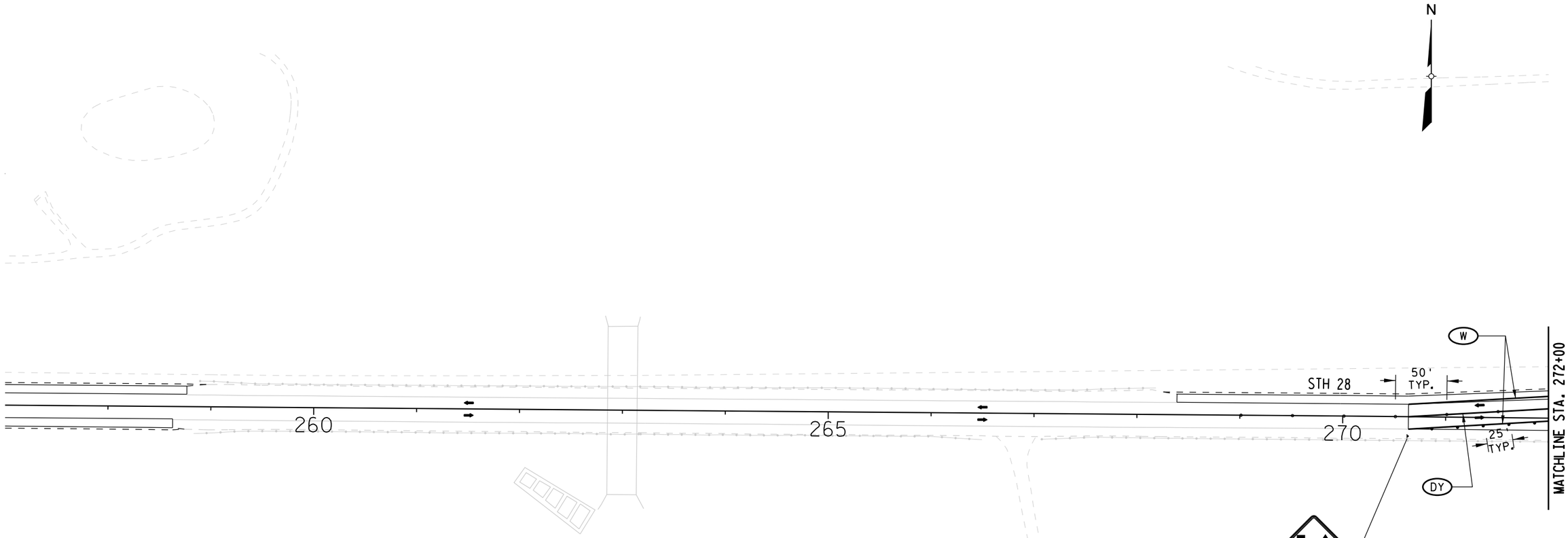
TAYLOR DRIVE
PERFORM ROADWAY RECONSTRUCTION OF SOUTHBOUND LANES, CENTER MEDIAN, AND NORTHBOUND LEFT TURN LANES ON THE SOUTH LEG OF TAYLOR DRIVE.

CTH A
PERFORM ROADWAY RECONSTRUCTION OF THE SOUTHBOUND LANES AND NORTHBOUND LEFT TURN LANE ON THE SOUTH LEG OF CTH A.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL OVERVIEW: STAGE 2C	SHEET 274	E

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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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

1-2C

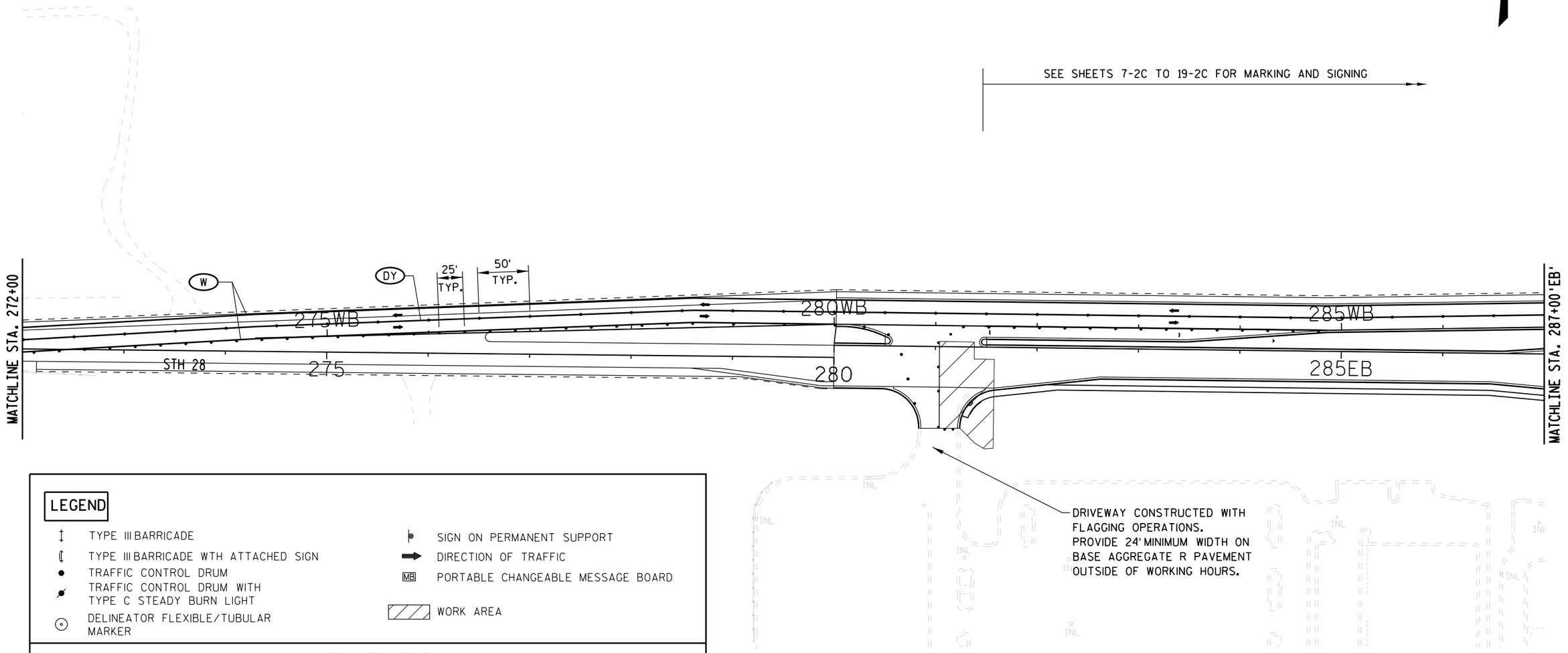
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PLOT TIME: 2:02:44 PM
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WISDOT/CADDS SHEET 42

2

N

SEE SHEETS 7-2C TO 19-2C FOR MARKING AND SIGNING



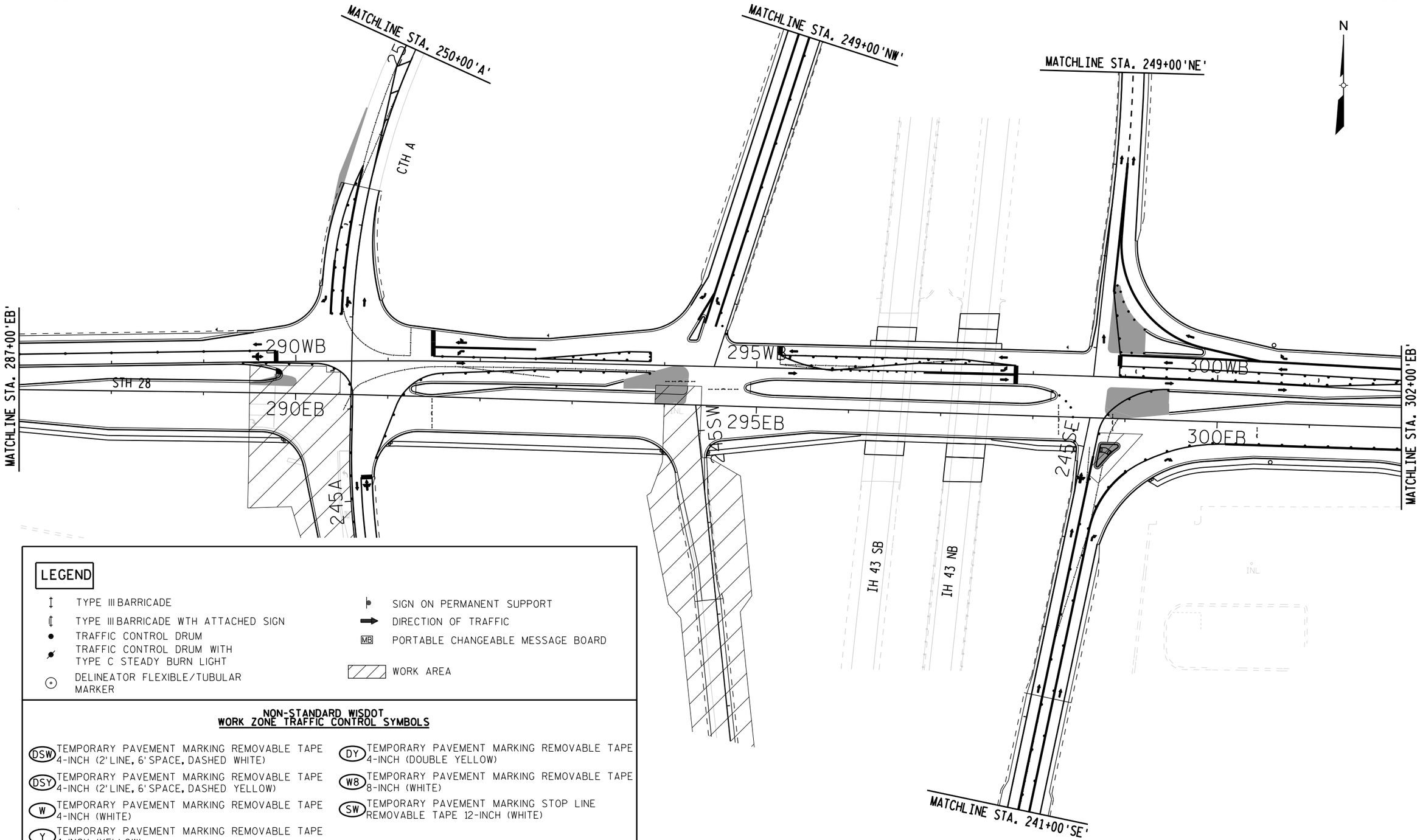
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

SEE SHEETS 7-2C TO 19-2C FOR MARKING AND SIGNING



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

3-2C

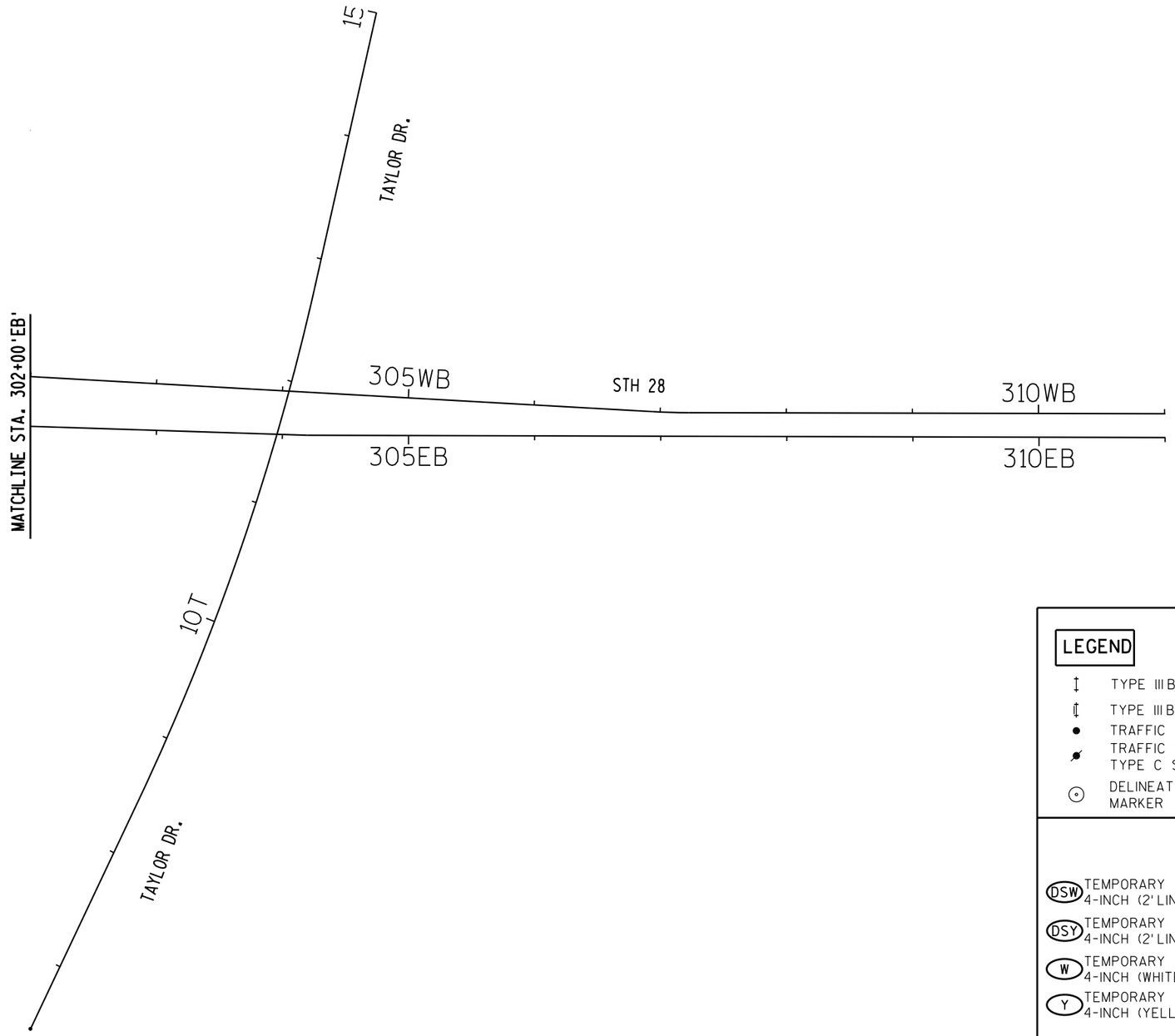
PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 277 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026403_s2C.DGN
BATCH PRINT SHEET 3 OF 19
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PLOT TIME: 2:02:57 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

SEE SHEETS 7-2C TO 19-2C FOR MARKING AND SIGNING

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

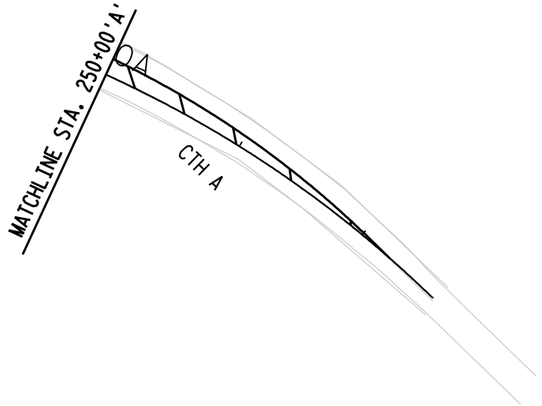
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

4-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 278	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026404_s2C.DGN
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WISDOT/CADDS SHEET 42



LEGEND

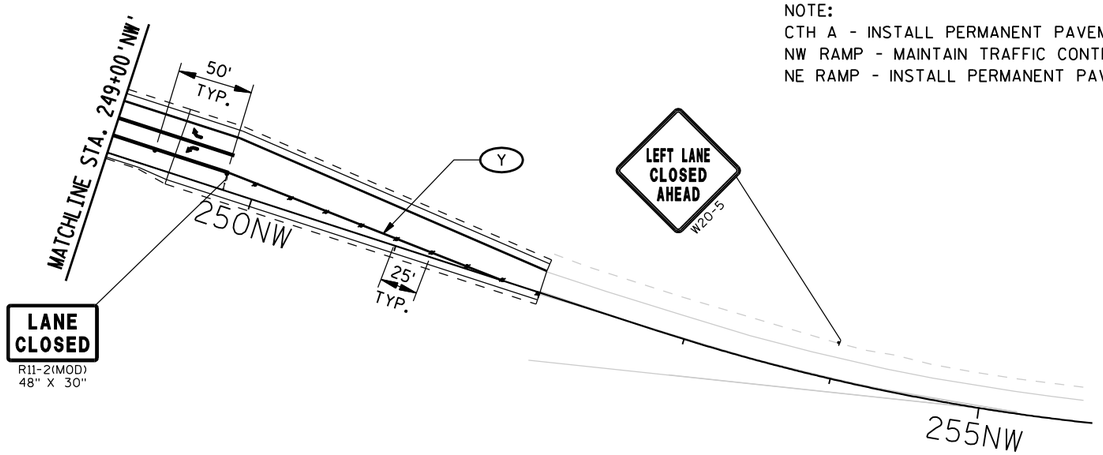
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

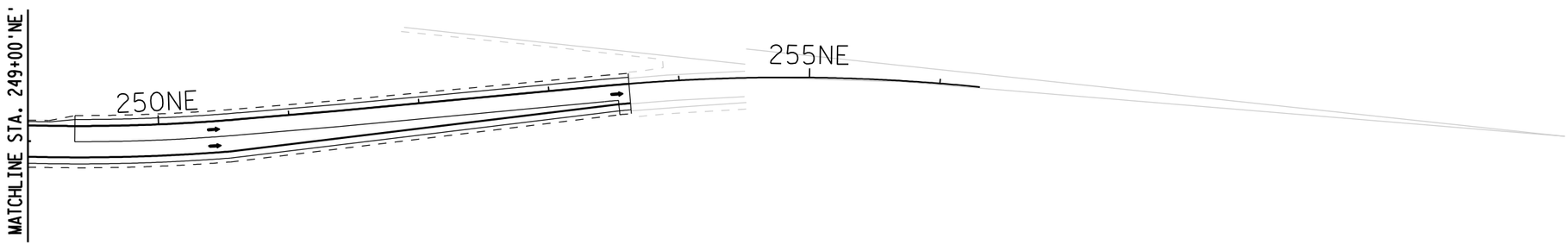
NON-STANDARD WISDOT
WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

N

NOTE:
CTH A - INSTALL PERMANENT PAVEMENT MARKING AS SHOWN IN THE PAVEMENT MARKING DETAILS.
NW RAMP - MAINTAIN TRAFFIC CONTROL ITEMS AS SHOWN ON SHEET (X) OF STAGE 1C
NE RAMP - INSTALL PERMANENT PAVEMENT MARKINGS AS SHOWN IN THE PAVEMENT MARKING DETAILS.





2

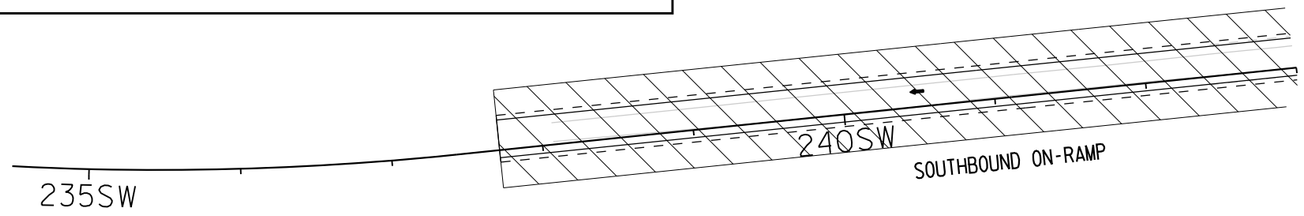
LEGEND

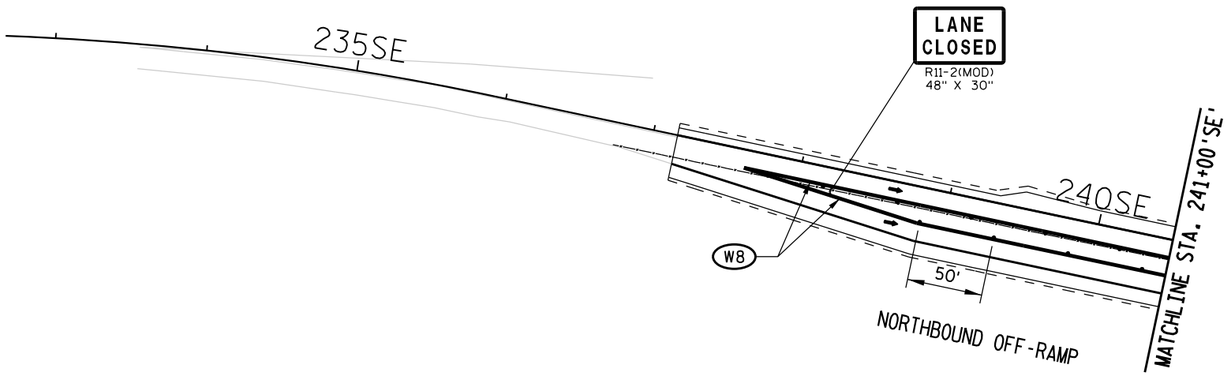
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

N



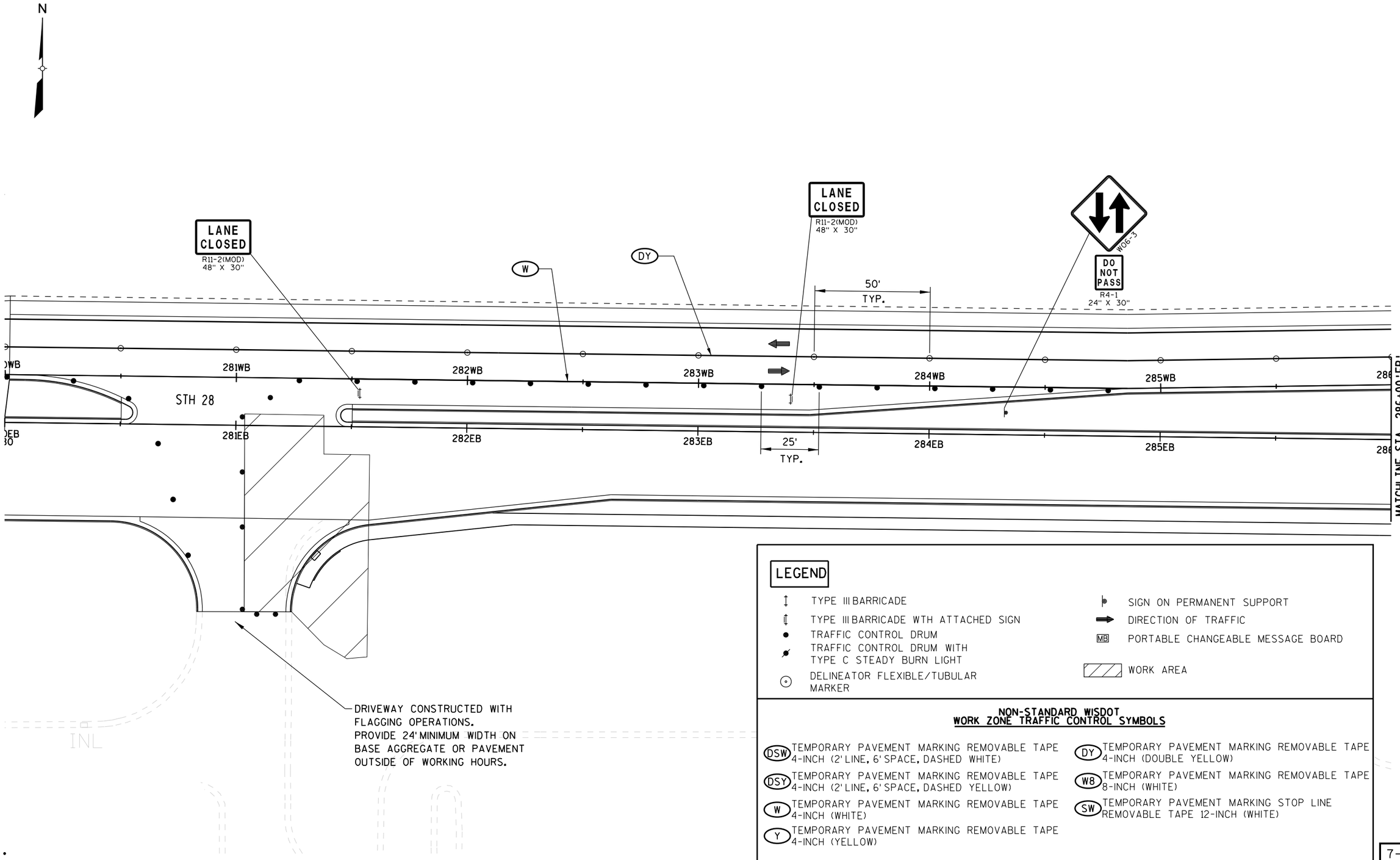


6-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 280	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026406_s2C.DGN
BATCH PRINT SHEET 6 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/15/2014
PLOT TIME: 2:03:18 PM
PLOT SCALE: 1:99.9998
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

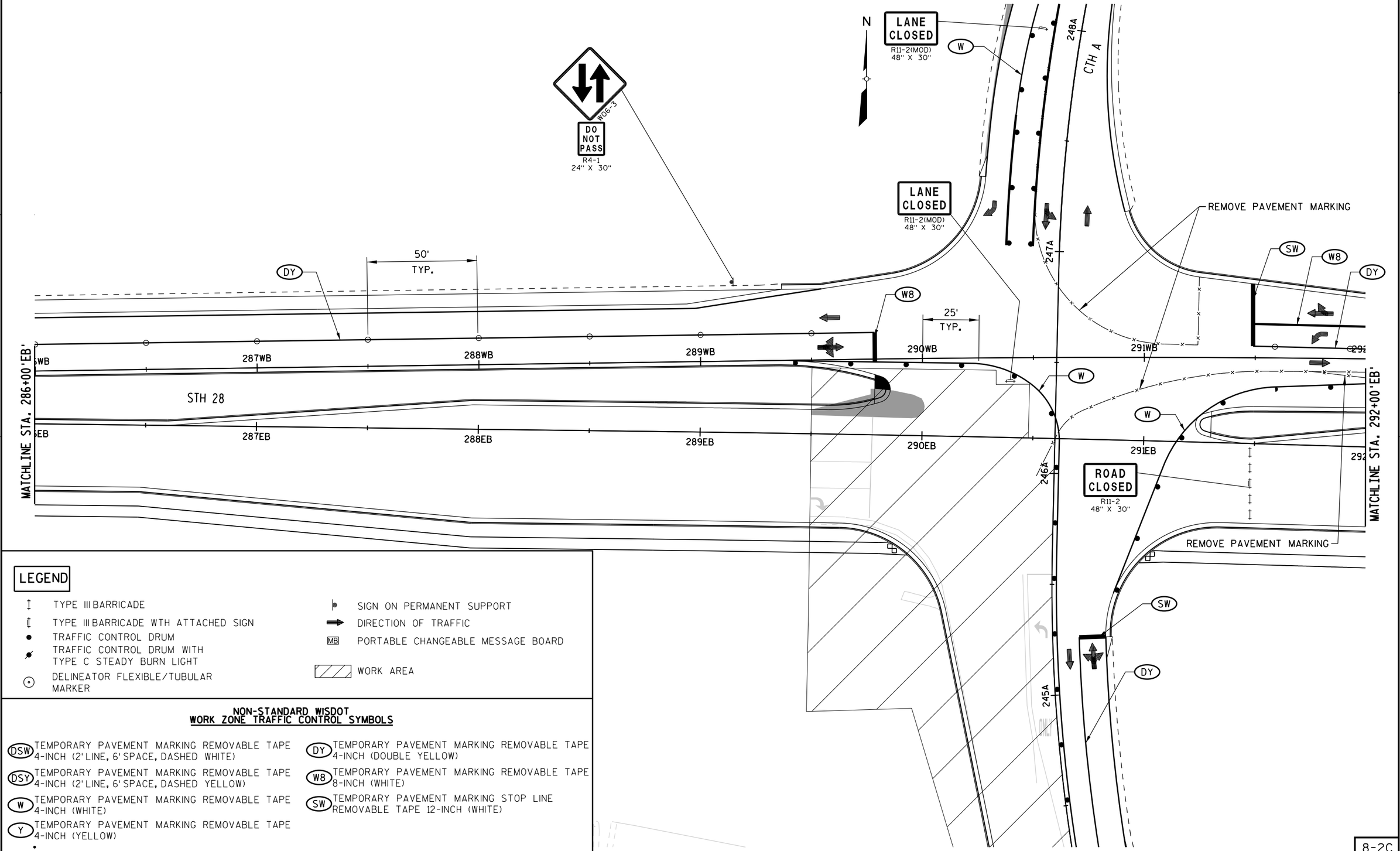
- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

7-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 281	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026407_s2C.DGN
BATCH PRINT SHEET 7 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:03:24 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

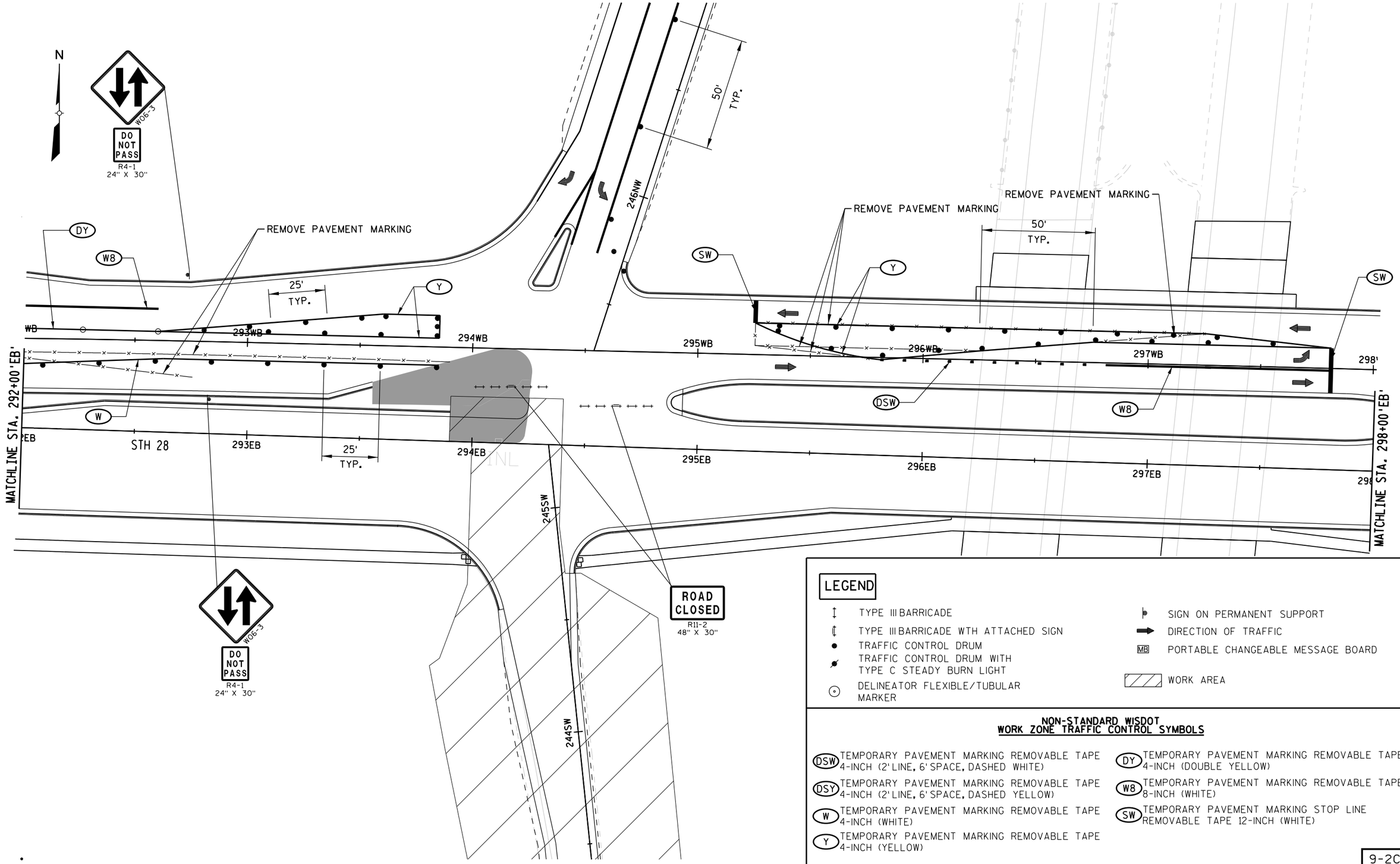
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

8-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 282 E

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

9-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 283 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026409_s2C.DGN
BATCH PRINT SHEET 9 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT TIME: 2:03:38 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

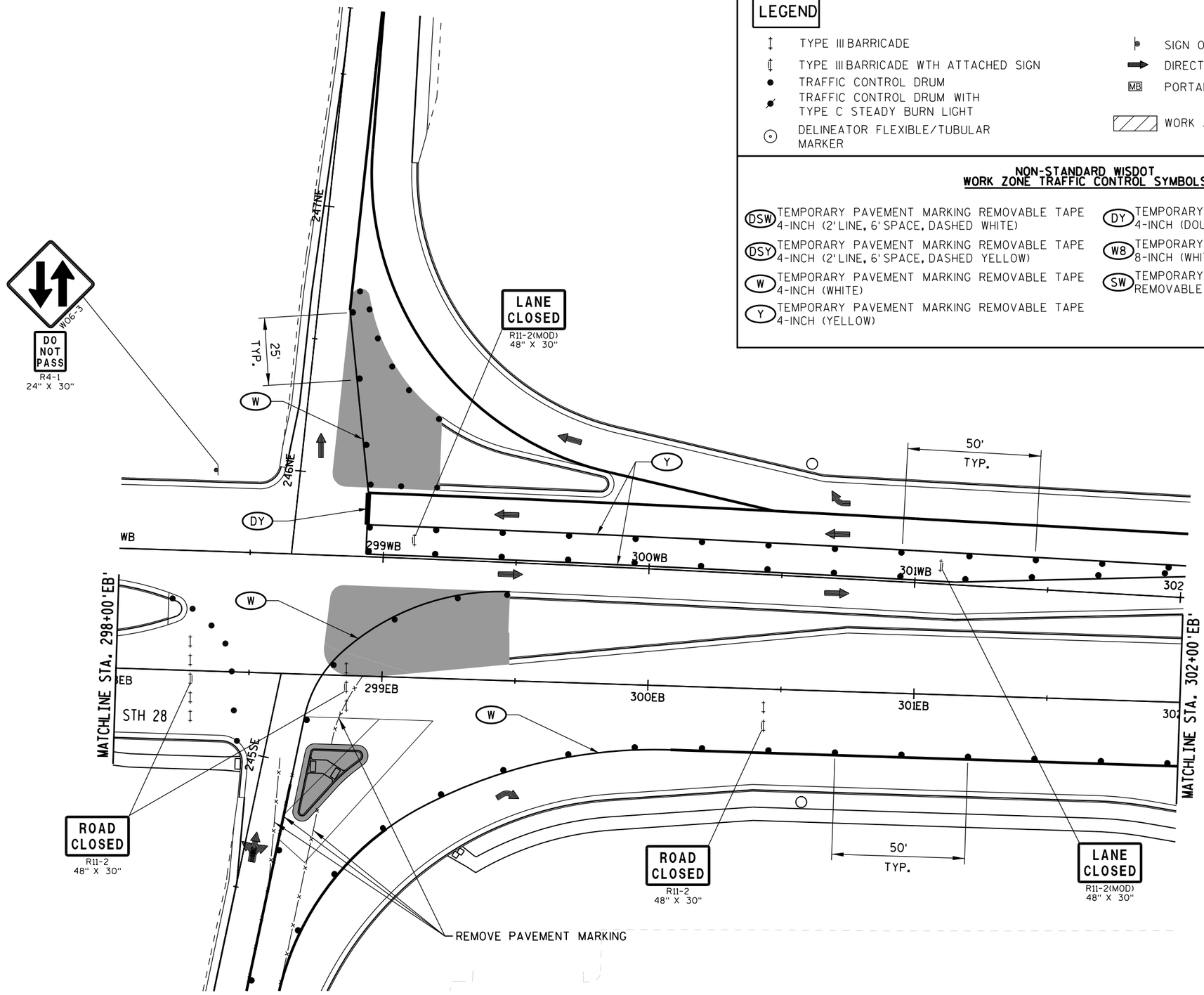
N

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



10-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 284 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026410_s2C.DGN
BATCH PRINT SHEET 10 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:03:44 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N

REMOVE PAVEMENT MARKING

ROAD CLOSED
R11-2
48" X 30"

NO TURNS
R3-3
24" X 24"

TAYLOR DR.

12'

DY

SW

R3-2
24" X 24"

NO TURNS
R3-3
24" X 24"

W01-3R
15 M.P.H.
W013-1
24" X 24"

REMOVE PAVEMENT MARKING

DY

50'
TYP.

WB

303WB

304WB

27'

SW

W

305WB

306WB

307WB

308

MATCHLINE STA. 302+00'EB'

STH 28

303EB

304EB

305EB

306EB

307EB

MATCHLINE STA. 308+00'EB'

W

DY

25'
TYP.

LANE CLOSED
R11-2(MOD)
48" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

TAYLOR DR.

11'

W8

W01-3R
25 M.P.H.
W013-1
24" X 24"

REMOVE PAVEMENT MARKING

11'

Y

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

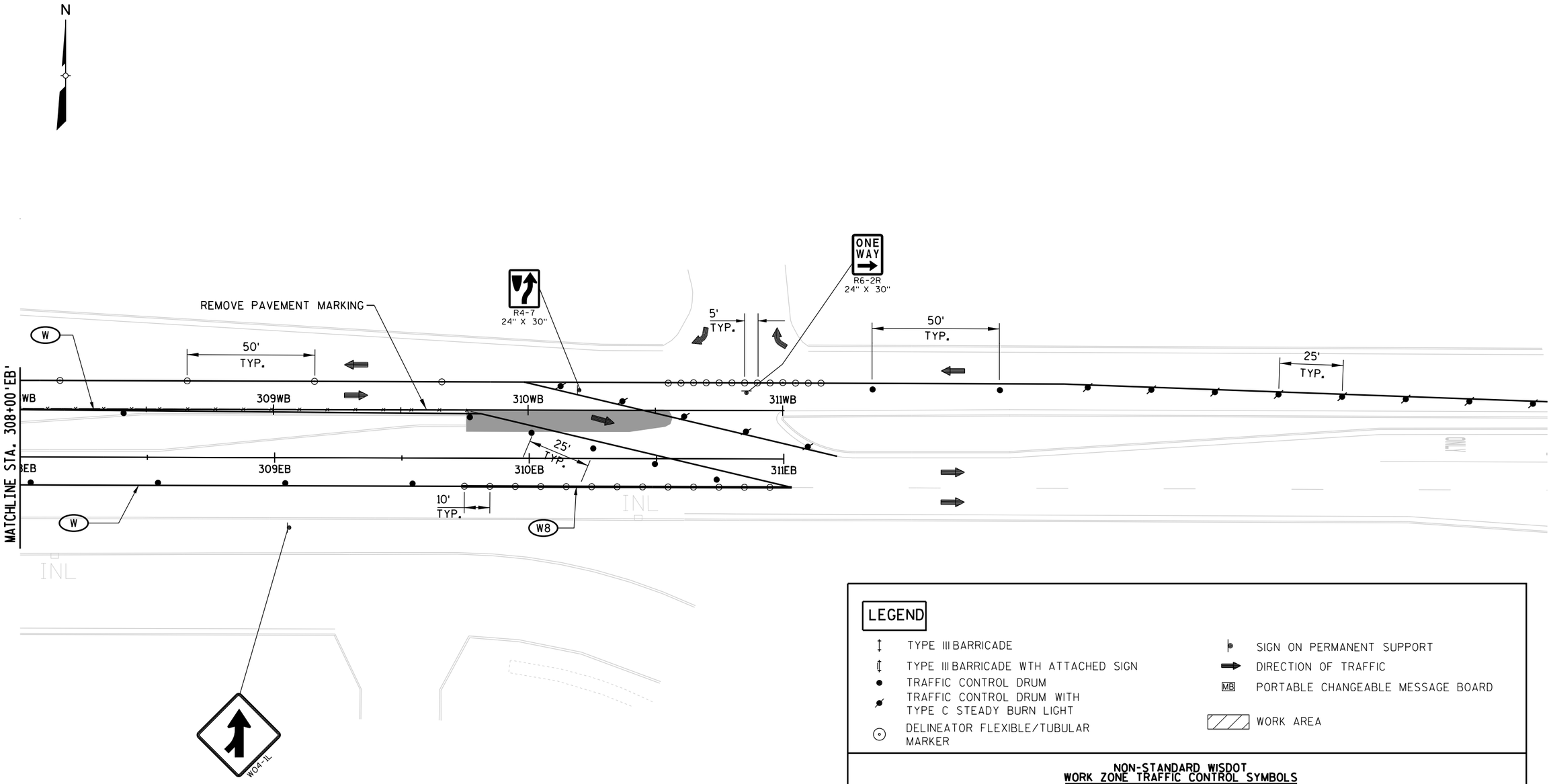
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
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- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

11-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 285	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026411_s2C.DGN
BATCH PRINT SHEET 11 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:03:50 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

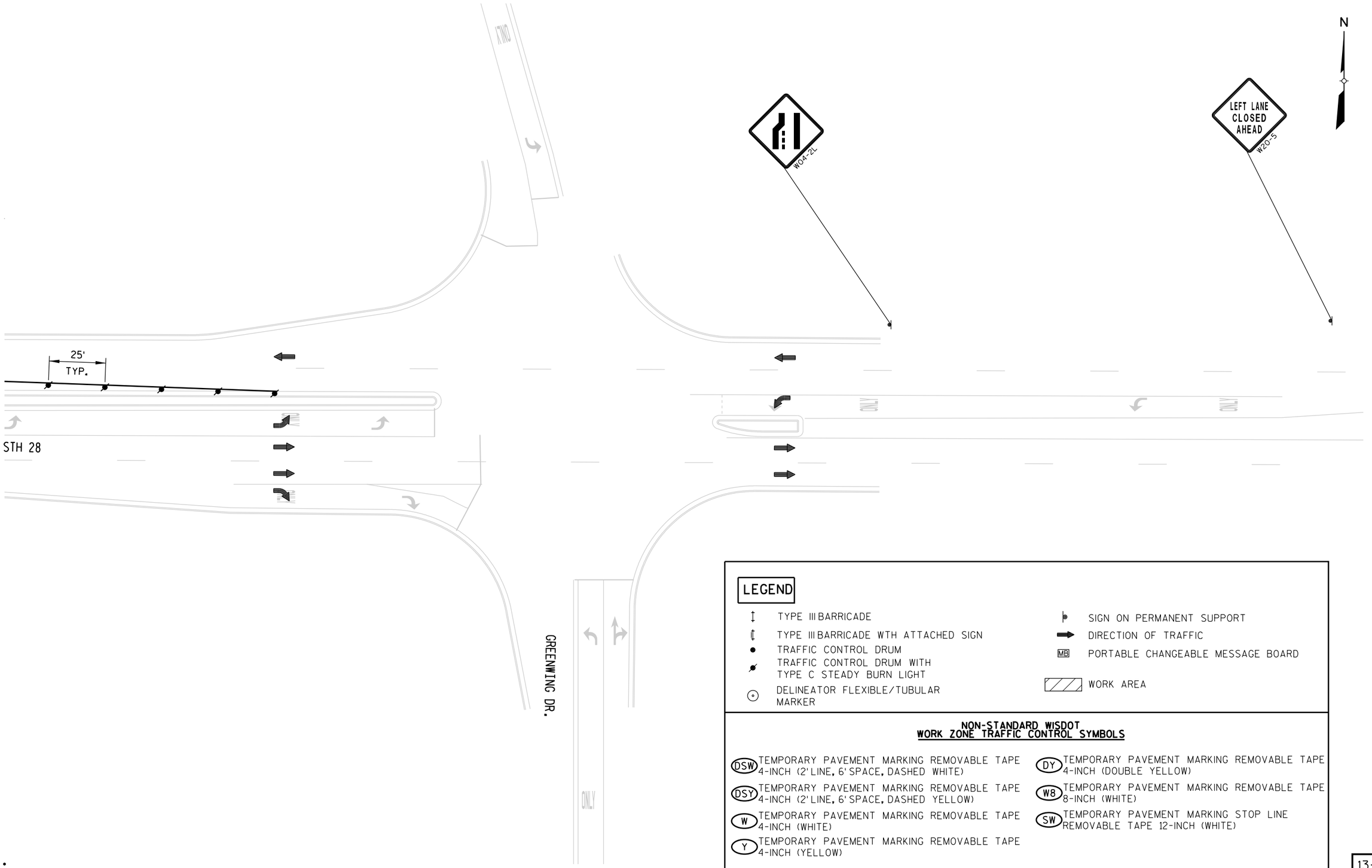
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

12-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 286	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026412_s2C.DGN
BATCH PRINT SHEET 12 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:03:55 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

13-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 287	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026413_s2C.DGN
BATCH PRINT SHEET 13 OF 19
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PLOT DATE: 12/15/2014
PLOT TIME: 2:04:02 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

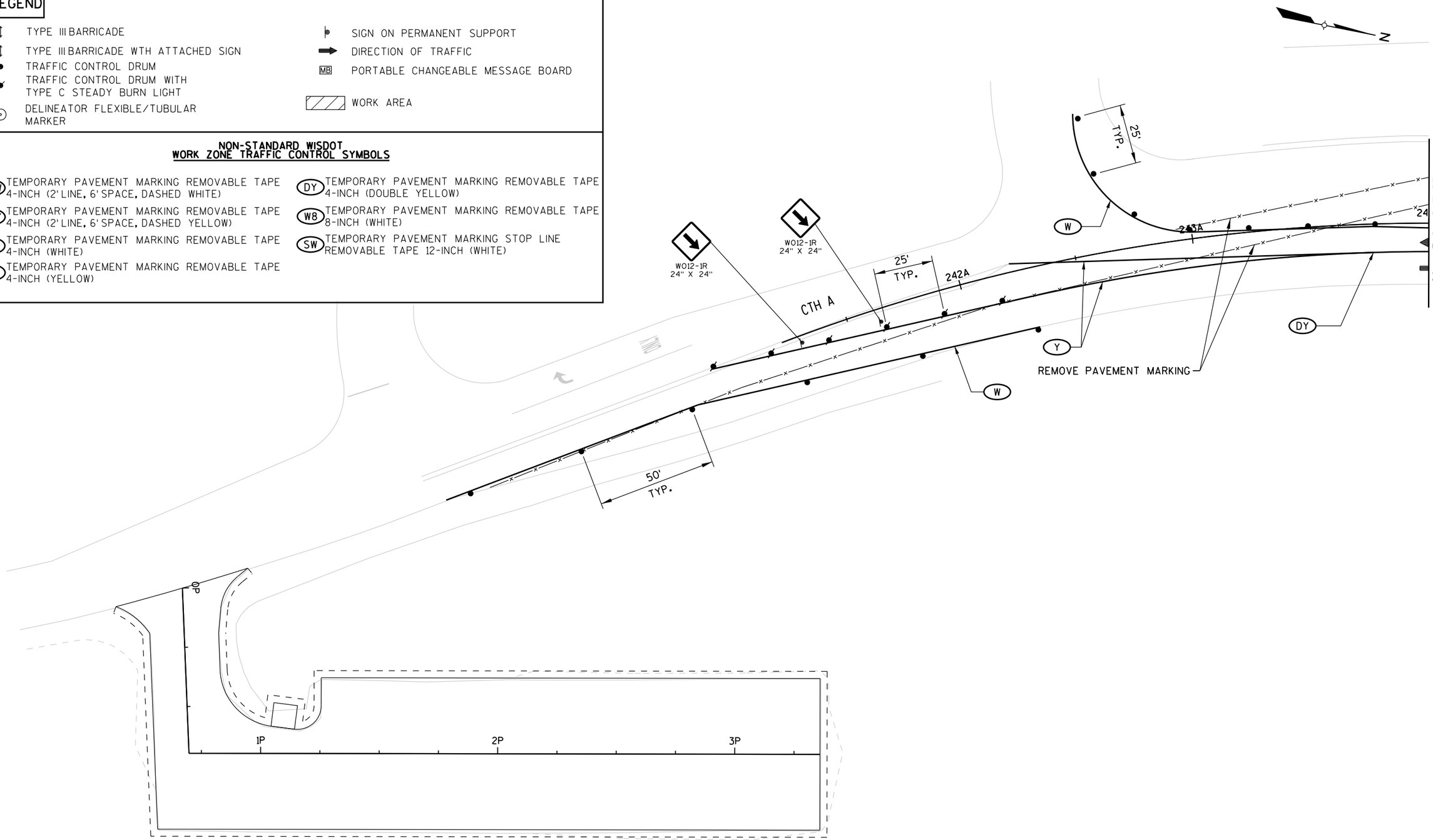
2

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



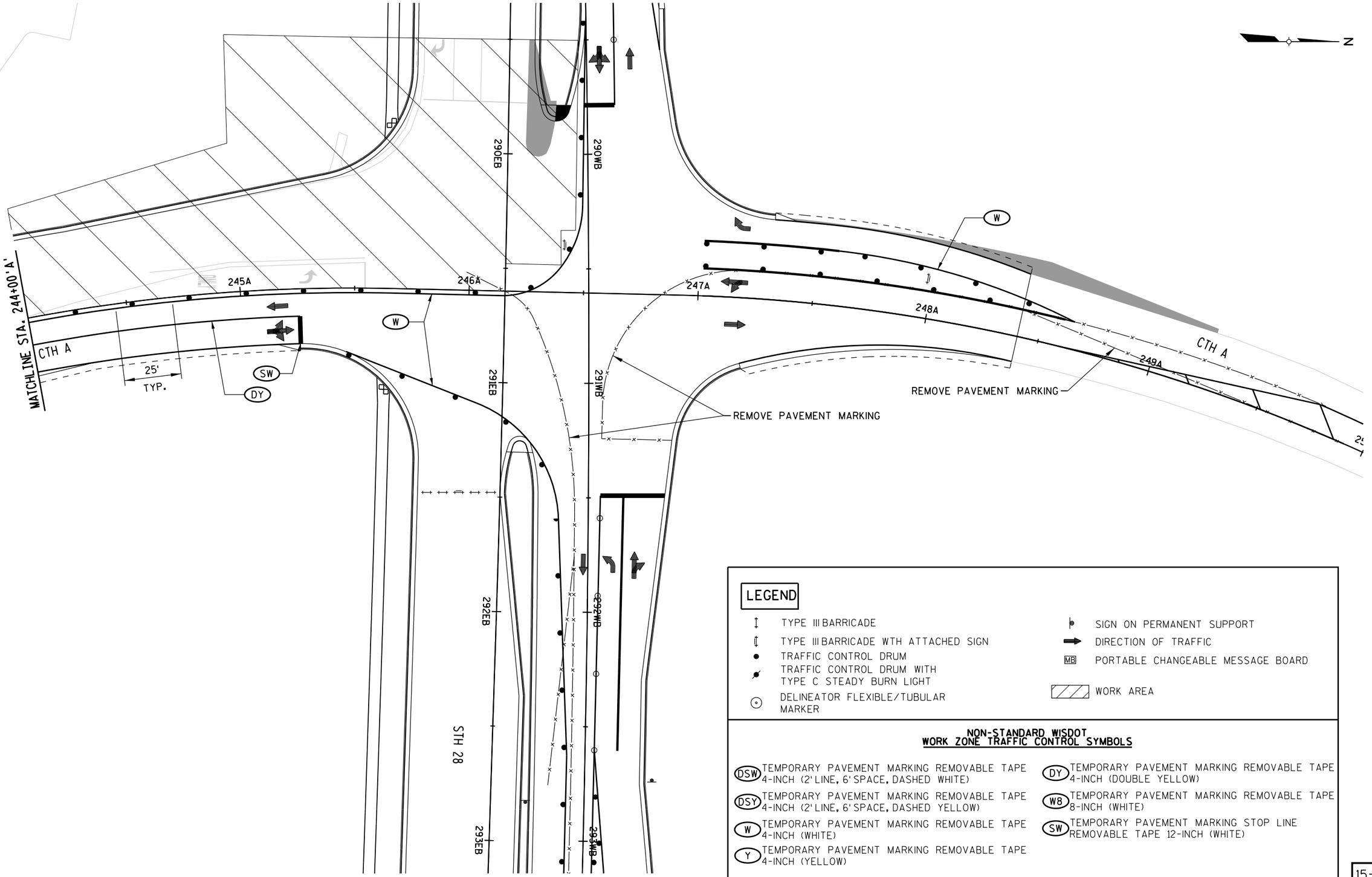
2

14-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 288 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026414_s2C.DGN
BATCH PRINT SHEET 14 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:04:07 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

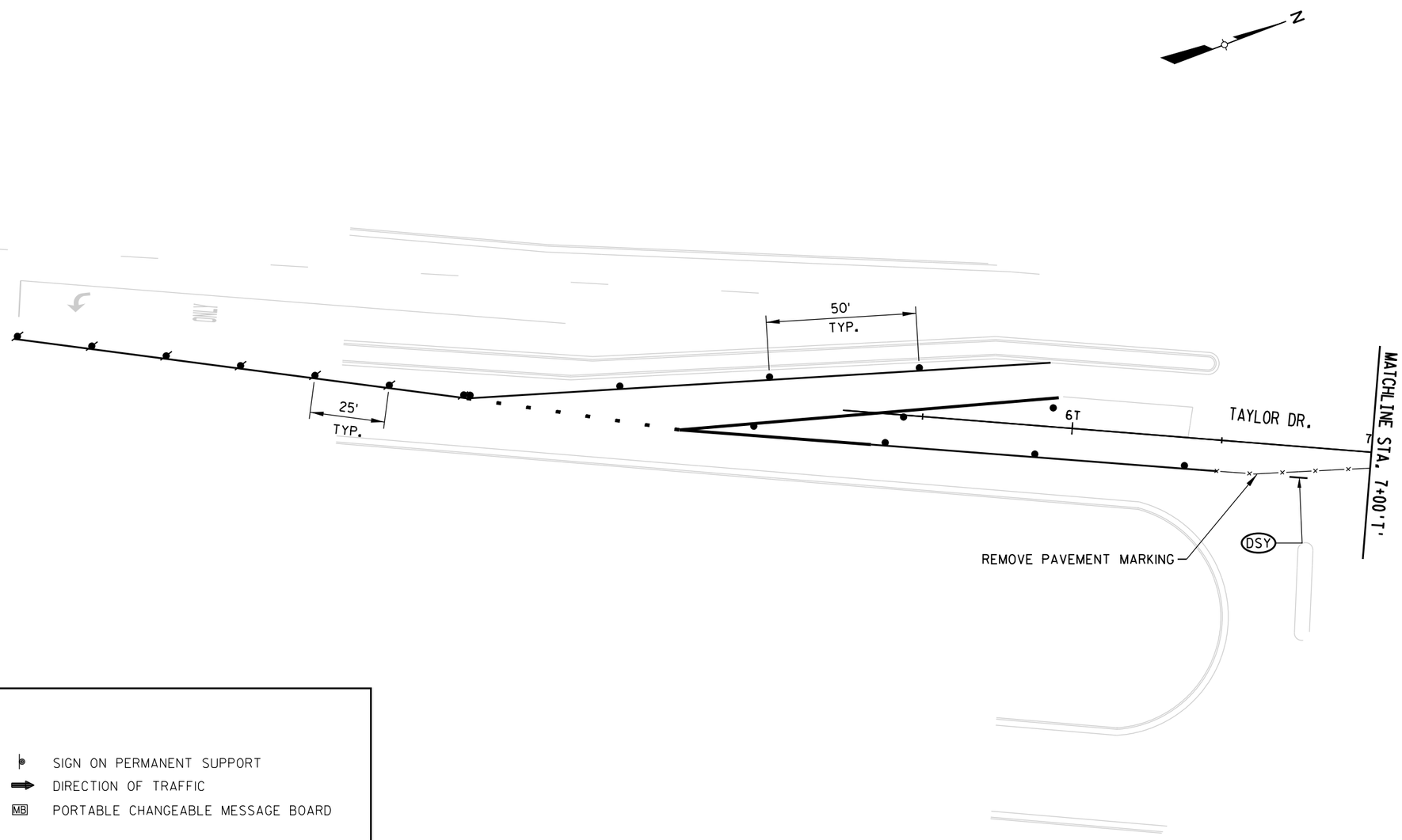
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

15-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 289 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026415_s2C.DGN
BATCH PRINT SHEET 15 OF 19
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PLOT DATE: 12/15/2014
PLOT TIME: 2:04:13 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

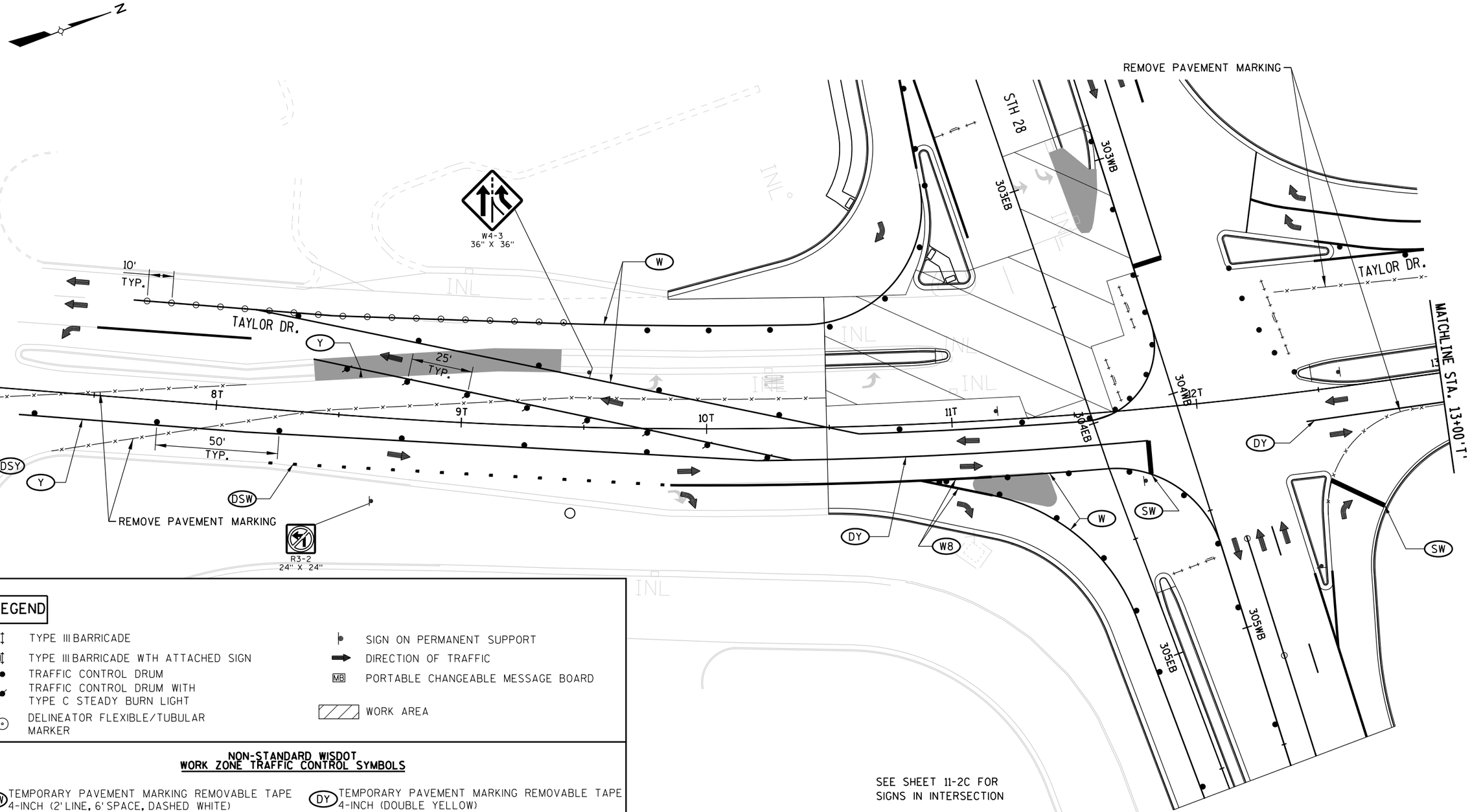
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

16-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 290	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026416_s2C.DGN
BATCH PRINT SHEET 16 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:04:18 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

SEE SHEET 11-2C FOR SIGNS IN INTERSECTION

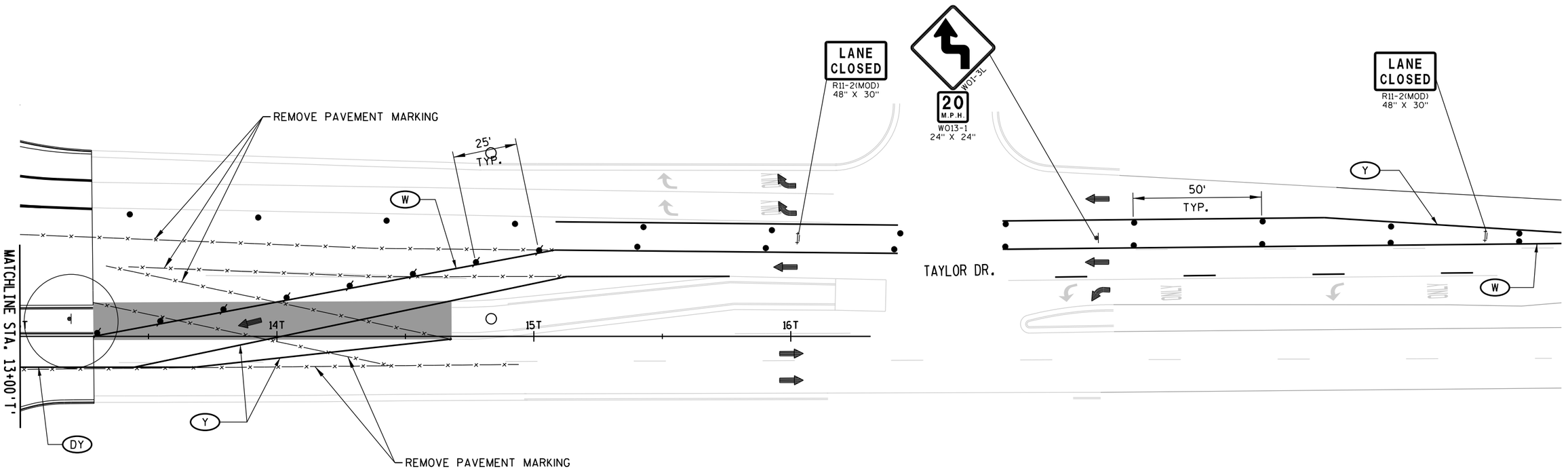
17-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 291 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026417_s2C.DGN
BATCH PRINT SHEET 17 OF 19
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PLOT DATE: 12/15/2014
PLOT TIME: 2:04:25 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

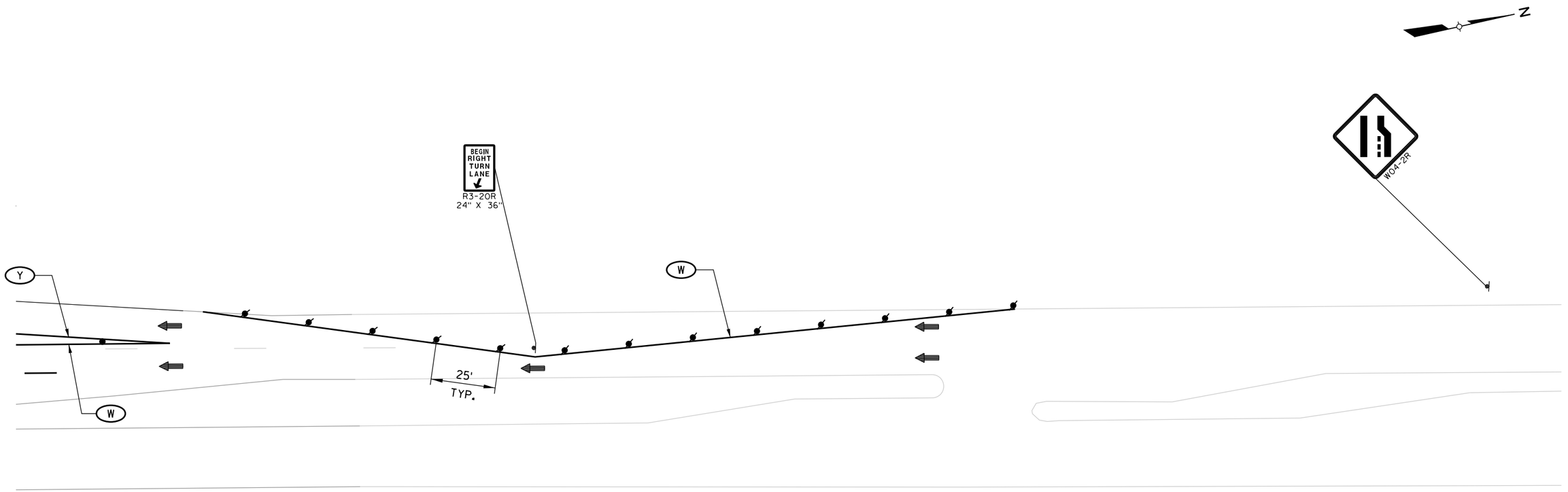
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

18-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 292	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026418_s2C.DGN
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PLOT DATE: 12/15/2014
PLOT TIME: 2:04:31 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

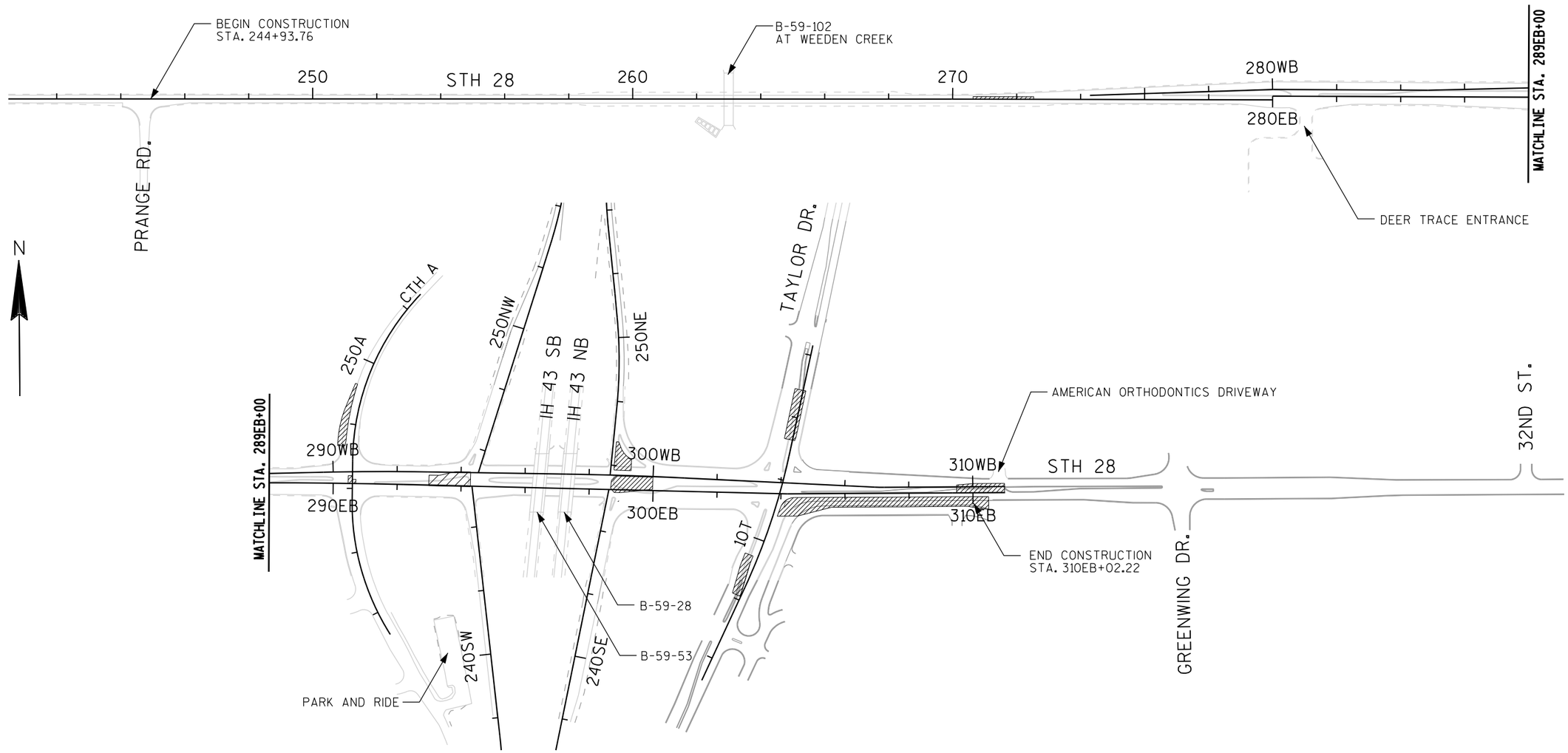
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

19-2C

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 2C	SHEET 293	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026419_s2C.DGN
BATCH PRINT SHEET 19 OF 19
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PLOT TIME: 2:04:37 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



TRAFFIC

STH 28
STH 28 REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION USING THE NEWLY CONSTRUCTED OUTSIDE LANES FROM THE WEST END OF THE 4-LANE SECTION TO GREENWING DRIVE. RIGHT AND LEFT TURN LANES ARE PROVIDED AT ALL INTERSECTIONS. THE LEFT TURN LANE AT THE AMERICAN ORTHODONTICS DRIVEWAY IS CLOSED.

IH 43 RAMPS
IH 43 SOUTHBOUND OFF-RAMP INSIDE LEFT LANE CLOSED, REDUCED TO ONE LEFT TURN LANE AND ONE RIGHT TURN LANE.

TAYLOR DRIVE
TAYLOR DRIVE REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION. NORTHBOUND RIGHT TURNS PROHIBITED FOR TAYLOR DRIVE TRAFFIC AT STH 28. ALTERNATE ROUTE IN PLACE.

CTH A
CTH A REDUCED TO 1-LANE TRAFFIC IN EACH DIRECTION. NORTHBOUND AND SOUTHBOUND RIGHT TURNS COMBINED WITH THROUGH LANE.

CONSTRUCTION

STH 28
PERFORM MILL AND OVERLAY OF STH 28 FROM THE 4-LANE TRANSITION TO THE DEER TRACE ENTRANCE.

PERFORM ROADWAY RECONSTRUCTION OF STH 28 IN THE CENTER OF THE CTH A/STH 28 INTERSECTION AND THE STH 28 CENTER MEDIANS WEST OF CTH A, BETWEEN CTH A AND THE IH 43 SOUTHBOUND RAMPS, EAST OF THE IH 43 NORTHBOUND RAMPS, AND THE AMERICAN ORTHODONTICS DRIVEWAY. CONSTRUCT THE SIDEWALK WITH RETAINING WALL IN THE MEDIAN BETWEEN STH 28 AND THE FRONTAGE ROAD FROM TAYLOR DRIVE TO GREENWING DRIVE. REMOVE TEMPORARY SIGNALS AT THE 32ND STREET INTERSECTION, EAST OF THE PROJECT LIMITS.

IH 43 RAMPS
PERFORM ROADWAY RECONSTRUCTION OF THE SPLITTER ISLAND ON THE NORTHBOUND ON-RAMP.

TAYLOR DRIVE
PERFORM ROADWAY RECONSTRUCTION IN THE TAYLOR DRIVE CENTER MEDIAN BOTH NORTH AND SOUTH OF STH 28, AND THE CHANNELIZING ISLAND IN THE SOUTHEAST QUADRANT OF THE TAYLOR DRIVE INTERSECTION.

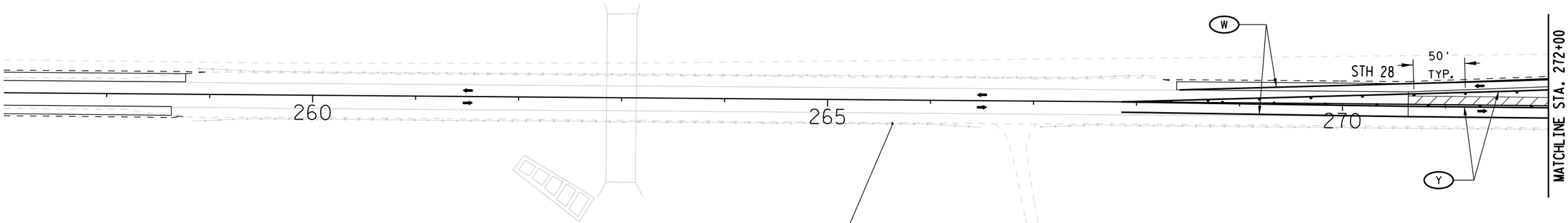
CTH A
PERFORM TEMPORARY ASPHALT REMOVAL AND DITCH RESTORATION OF THE SOUTHBOUND SHOULDER ON THE NORTH LEG OF CTH A.

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL OVERVIEW: STAGE 3	SHEET 294	E

2

N

SEE SHEETS 1-3 TO 5-3 FOR MARKING AND SIGNING





LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

1-3

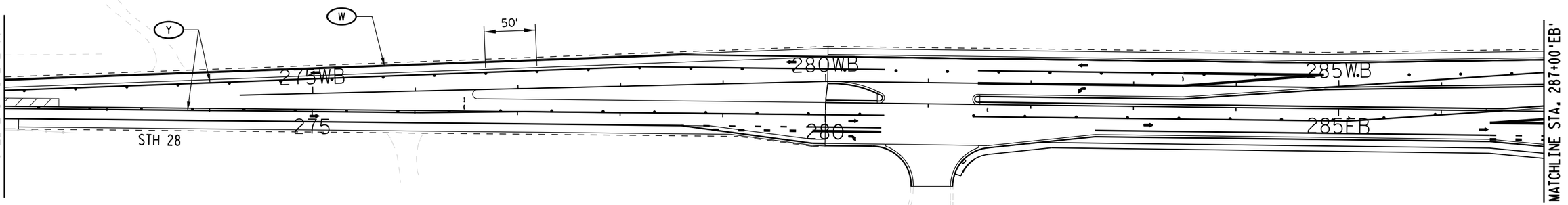
PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 295	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026501_s3.DGN
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PLOT TIME: 1:59:44 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

2

N

SEE SHEETS 10-3 TO 20-3 FOR MARKING AND SIGNING





LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

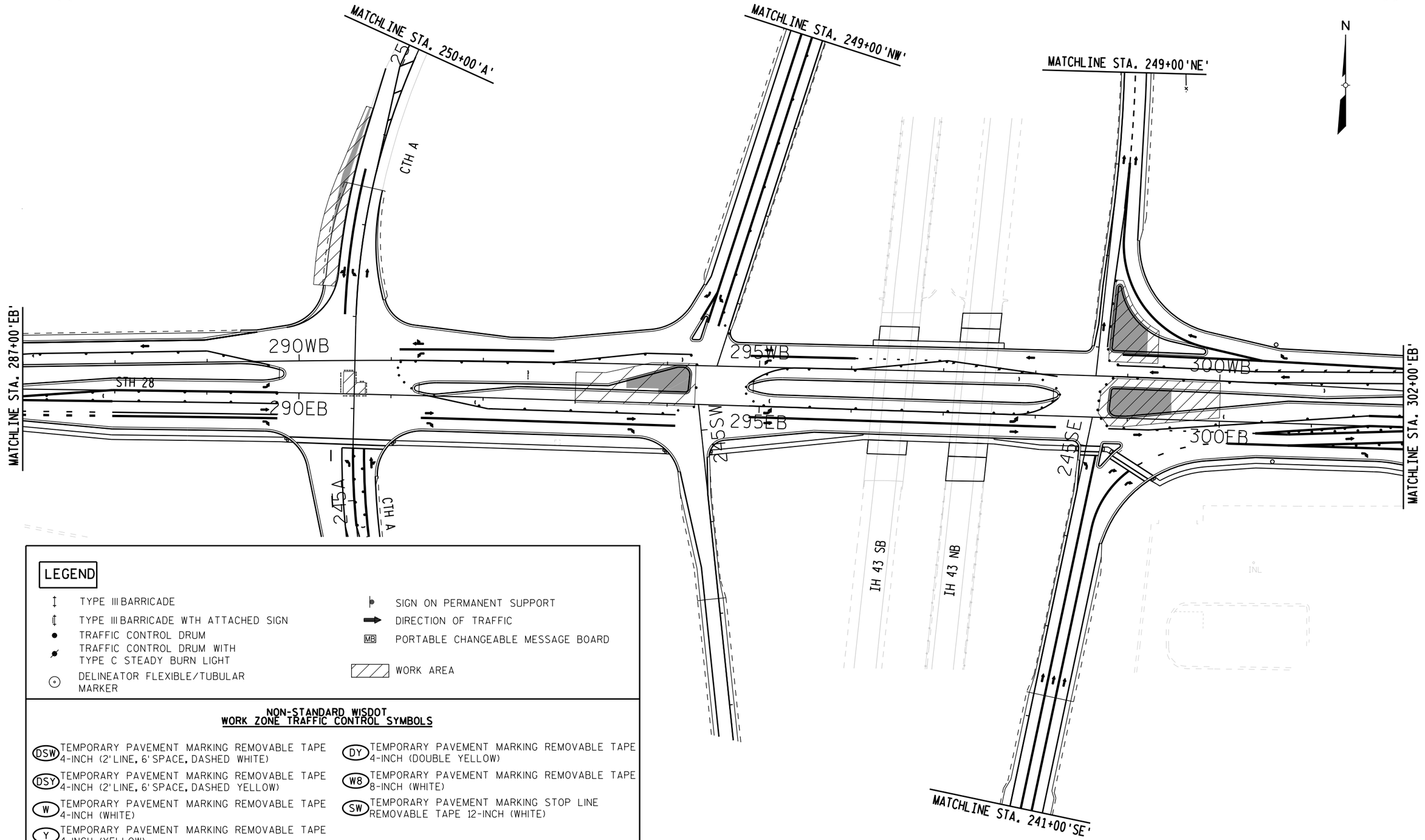
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

2-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 296	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026502_s3.DGN
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PLOT TIME: 1:59:50 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

SEE SHEETS 10-3 TO 20-3 FOR MARKING AND SIGNING



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

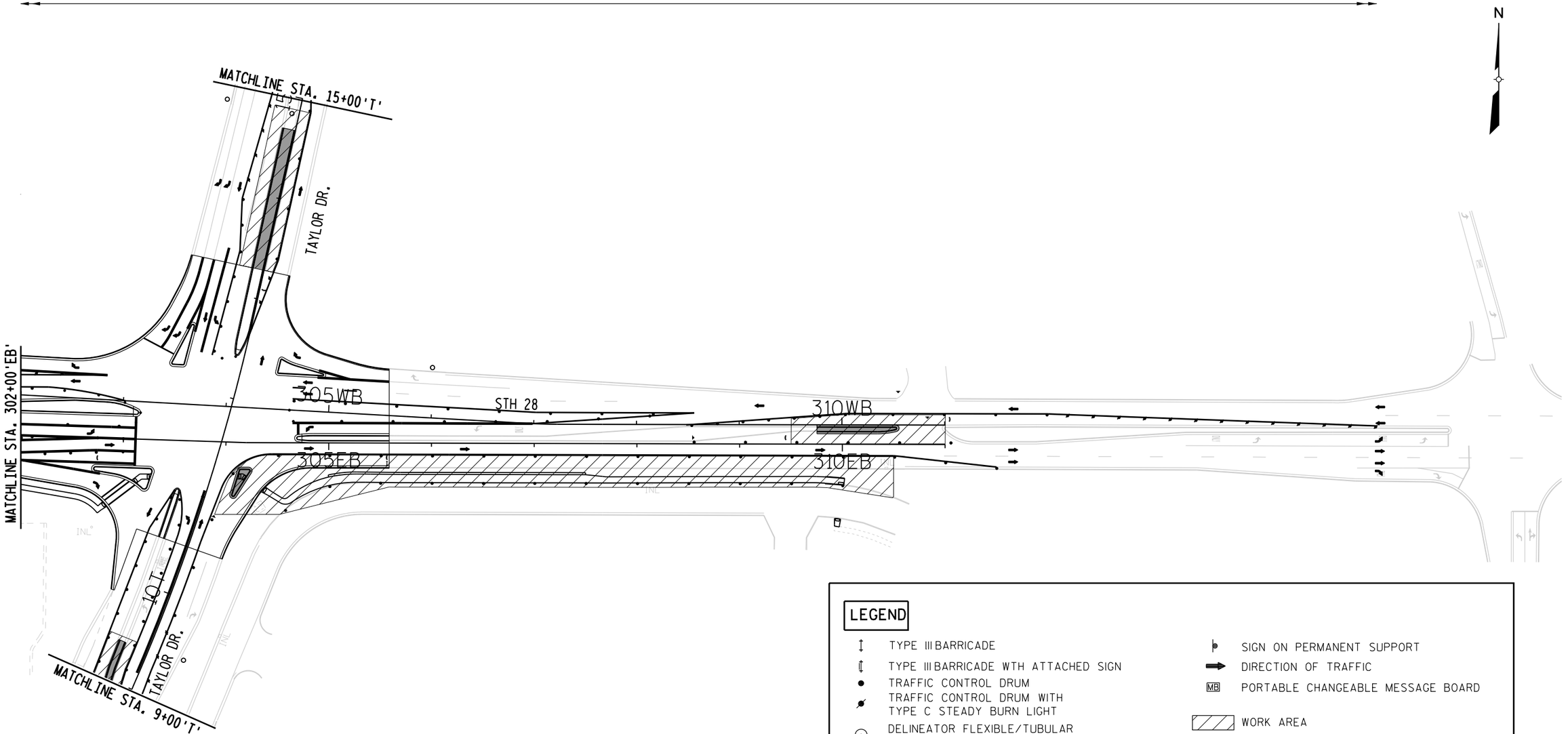
3-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 297 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026503_s3.DGN
BATCH PRINT SHEET 3 OF 19
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PLOT TIME: 1:59:58 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

SEE SHEETS 10-3 TO 20-3 FOR MARKING AND SIGNING

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

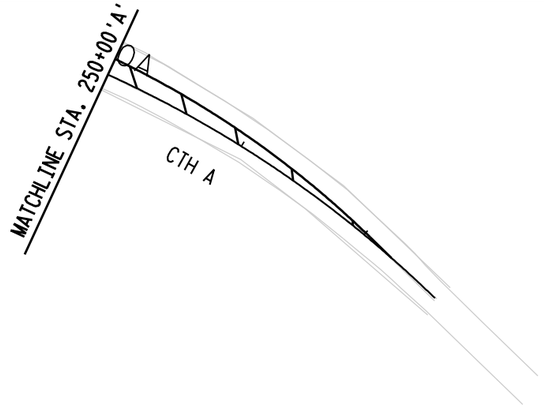
NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

4-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 298 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026504_s3.DGN
BATCH PRINT SHEET 4 OF 19
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PLOT TIME: 2:00:04 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42



LEGEND

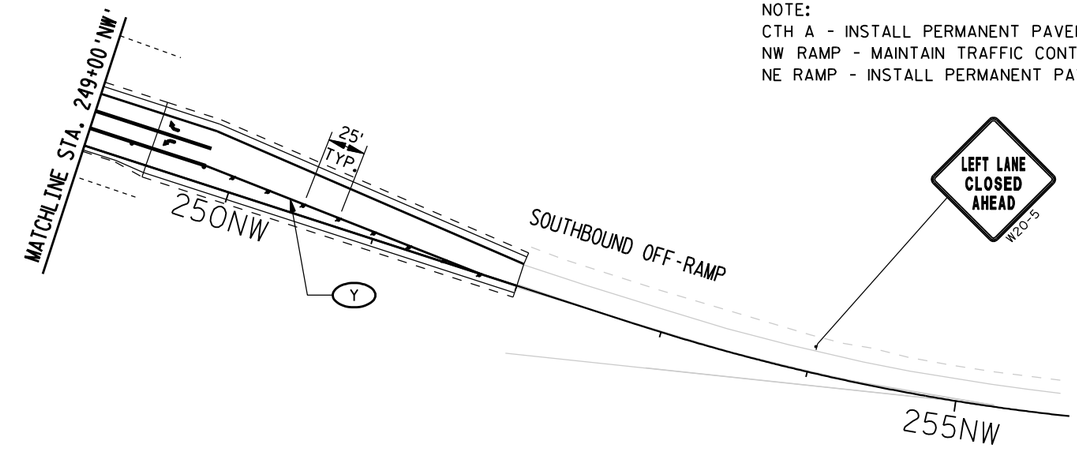
TYPE III BARRICADE	SIGN ON PERMANENT SUPPORT
TYPE III BARRICADE WTH ATTACHED SIGN	DIRECTION OF TRAFFIC
TRAFFIC CONTROL DRUM	MB PORTABLE CHANGEABLE MESSAGE BOARD
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT	WORK AREA
DELINEATOR FLEXIBLE/TUBULAR MARKER	

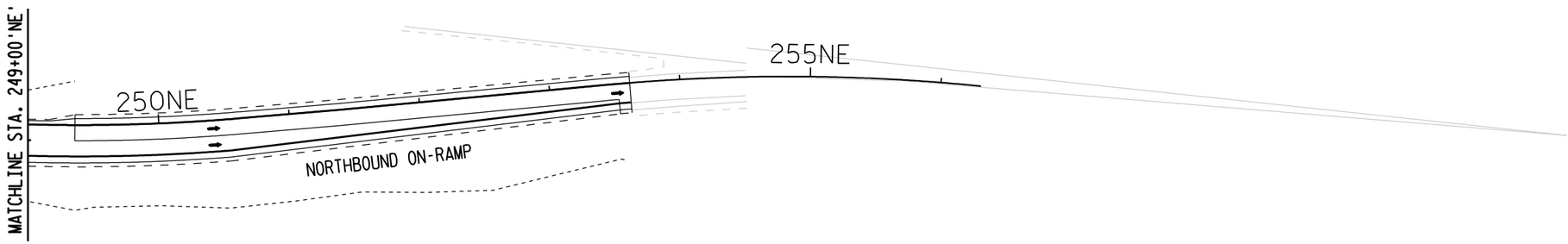
NON-STANDARD WISDOT
WORK ZONE TRAFFIC CONTROL SYMBOLS

(DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)	(DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
(DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)	(W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
(W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)	(SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)
(Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)	

N

NOTE:
CTH A - INSTALL PERMANENT PAVEMENT MARKING AS SHOWN IN THE PAVEMENT MARKING DETAILS.
NW RAMP - MAINTAIN TRAFFIC CONTROL ITEMS AS SHOWN ON SHEET (X) OF STAGE 1C
NE RAMP - INSTALL PERMANENT PAVEMENT MARKINGS AS SHOWN IN THE PAVEMENT MARKING DETAILS.





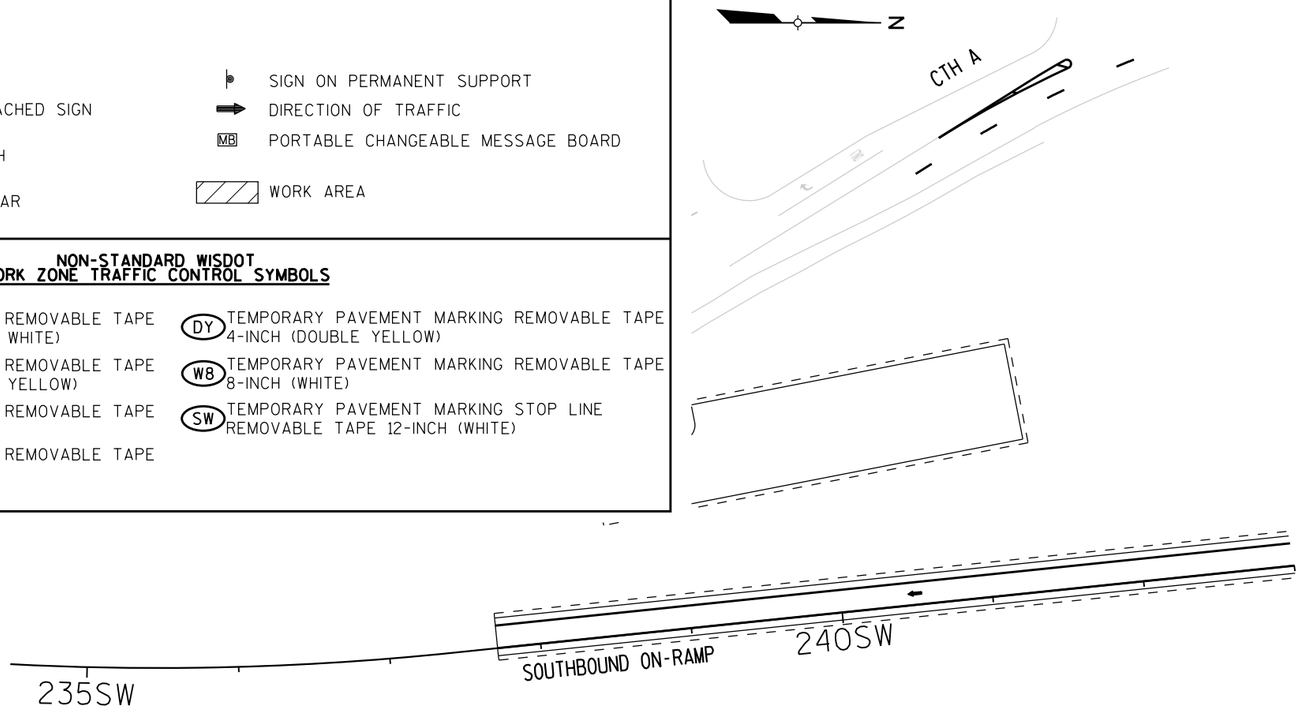
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PLOT TIME: 6:11:32 AM
PLOT SCALE: 1:100
WISDOT/CADDS SHEET 42

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



2

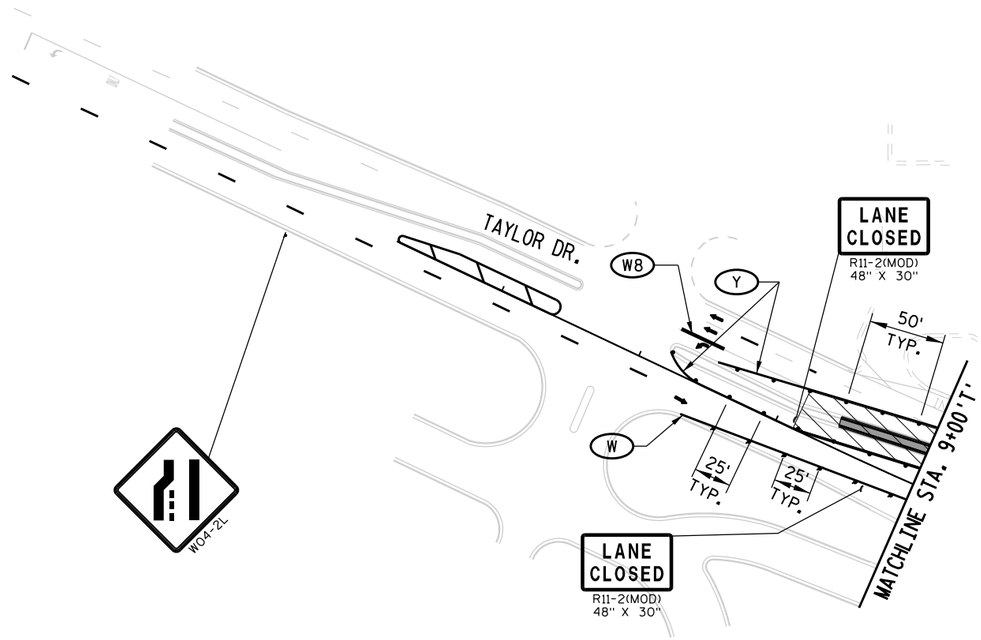
6-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 300	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026506_s3.DGN
BATCH PRINT SHEET 6 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/15/2014
PLOT TIME: 2:00:17 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

2

N



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2'LINE, 6'SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

NOTE:
INSTALL PERMANENT PAVEMENT MARKING AS SHOWN IN THE PAVEMENT MARKING DETAILS.

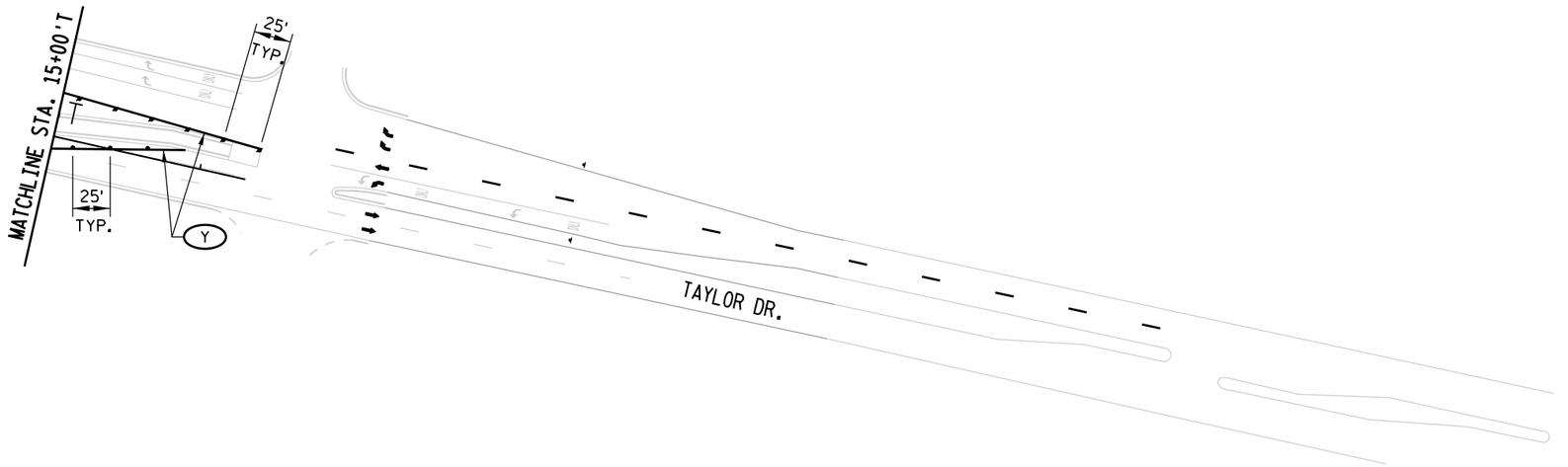
7-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 301	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026507_s3.DGN
BATCH PRINT SHEET 7 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:00:23 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

2

N



NOTE:
INSTALL PERMANENT PAVEMENT MARKING AS SHOWN IN THE PAVEMENT MARKING DETAILS.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

8-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 302	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026508_s3.DGN
BATCH PRINT SHEET 8 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/15/2014
PLOT TIME: 2:00:29 PM
PLOT SCALE: 1:99.9998
WISDOT/CADDS SHEET 42

2

2

N

50'
TYP.

LANE CLOSED
R11-2(MOD)
48" X 30"

W

W8

BEGIN LEFT TURN LANE
R3-20L
24" X 36"

281WB 282WB 283WB 284WB 285WB

STH 28

Y

281EB 282EB 283EB 284EB 285EB

MATCHLINE STA. 286+00 'EB'

LANE CLOSED
R11-2(MOD)
48" X 30"

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

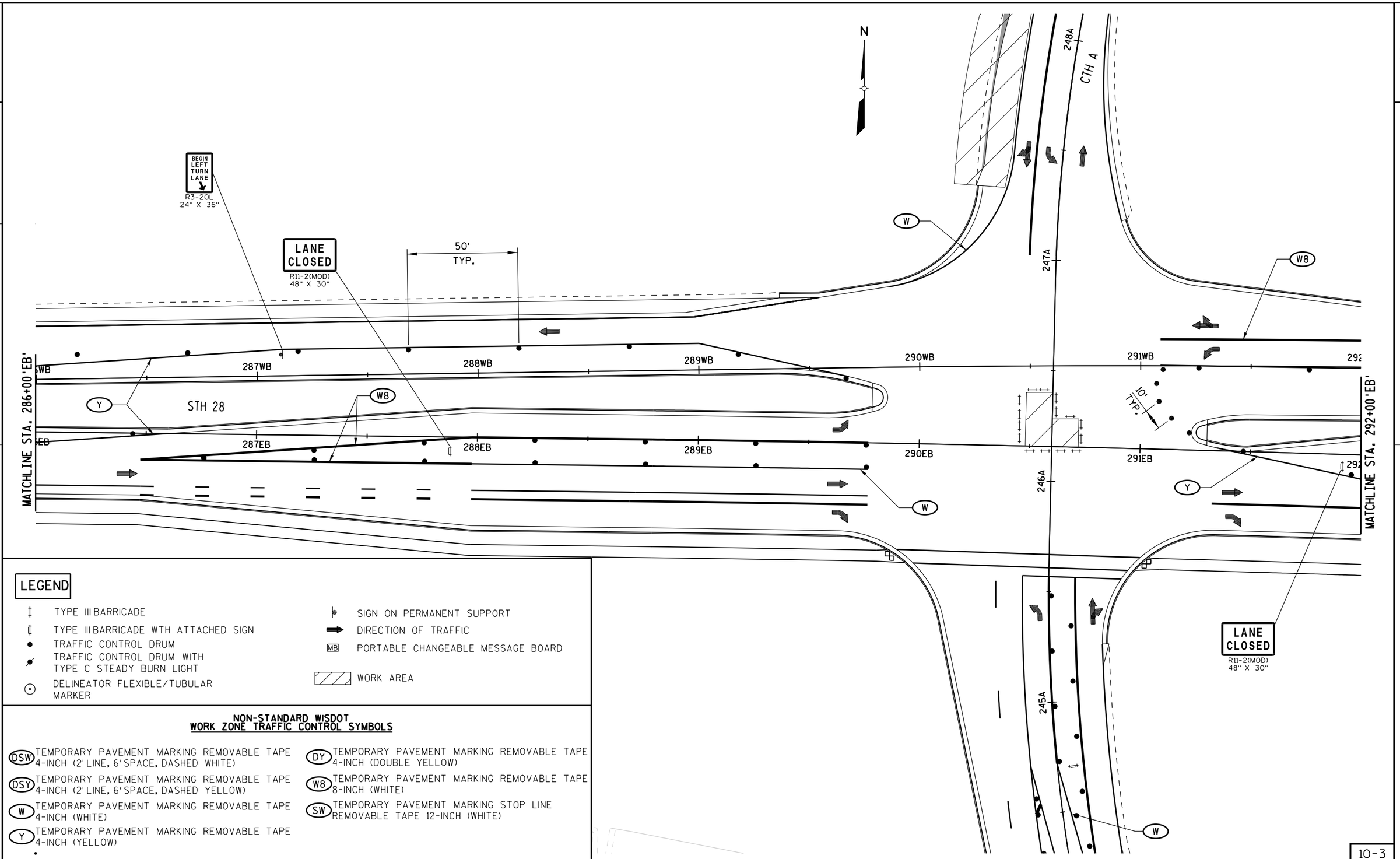
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

9-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 303 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026509_s3.DGN
BATCH PRINT SHEET 9 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/15/2014
PLOT TIME: 2:00:35 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

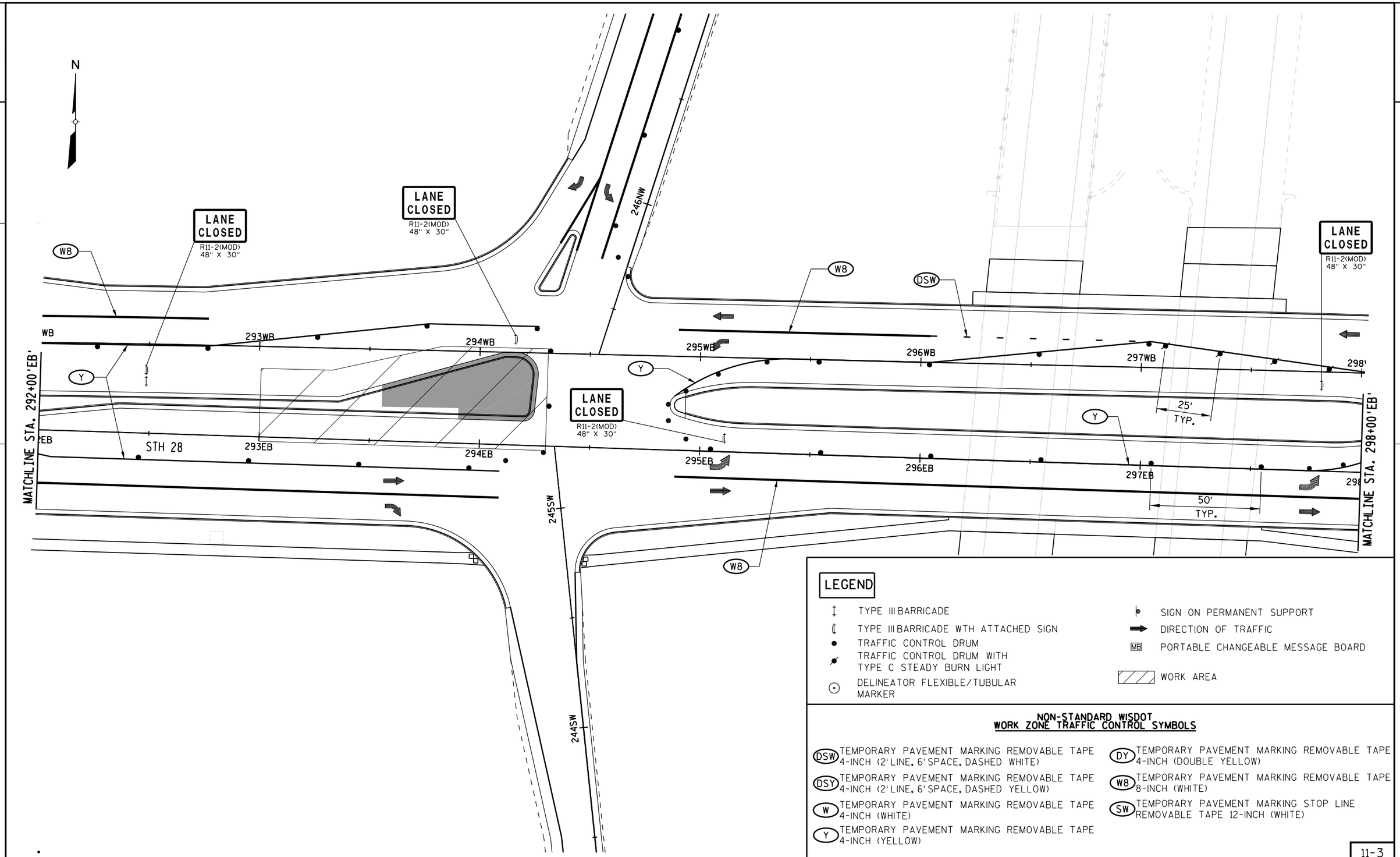
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

10-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 304 E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026510_s3.DGN
BATCH PRINT SHEET 10 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:00:42 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

11-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 305	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026511_s3.DGN
BATCH PRINT SHEET 11 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:00:48 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

2

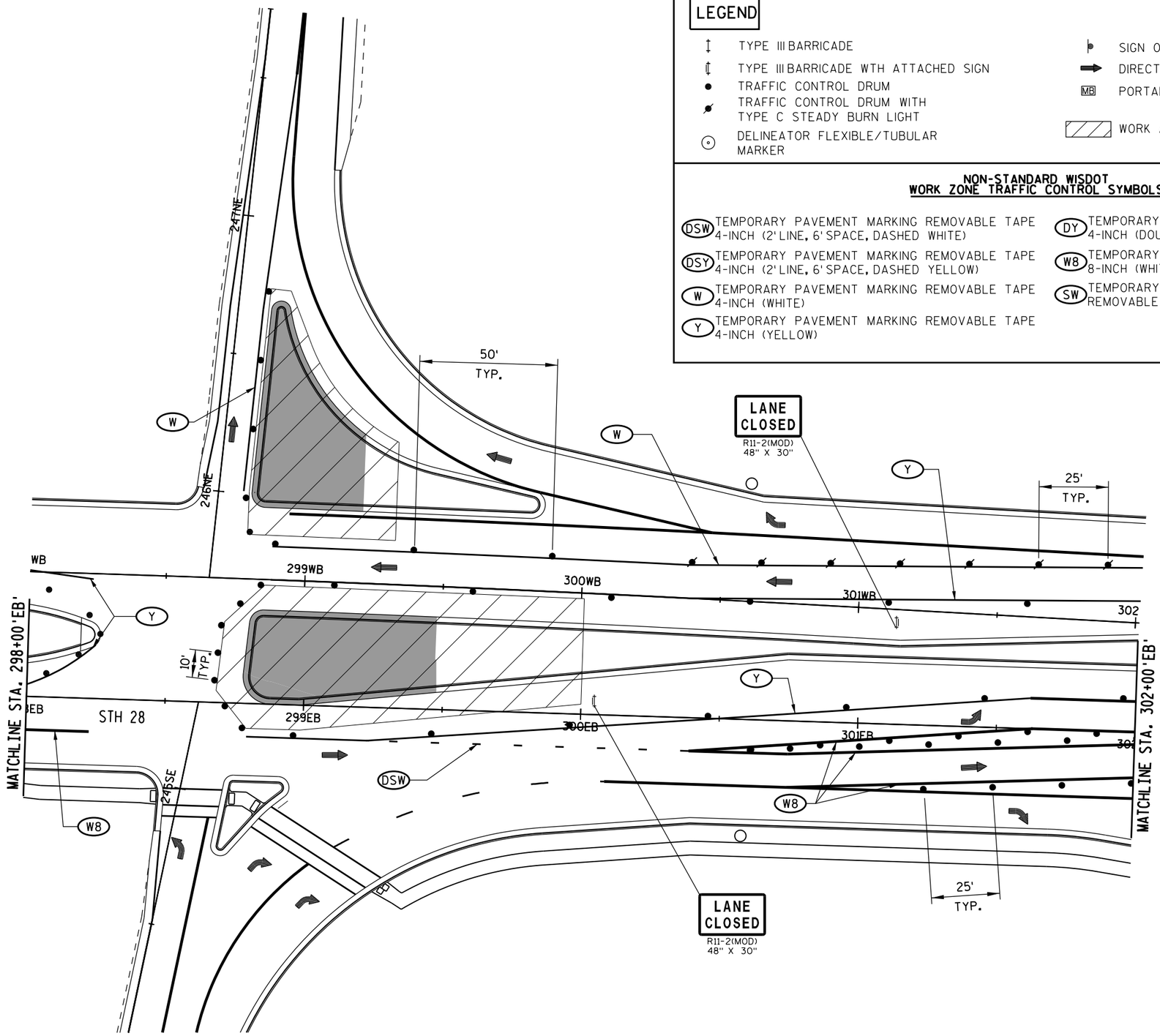
N

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

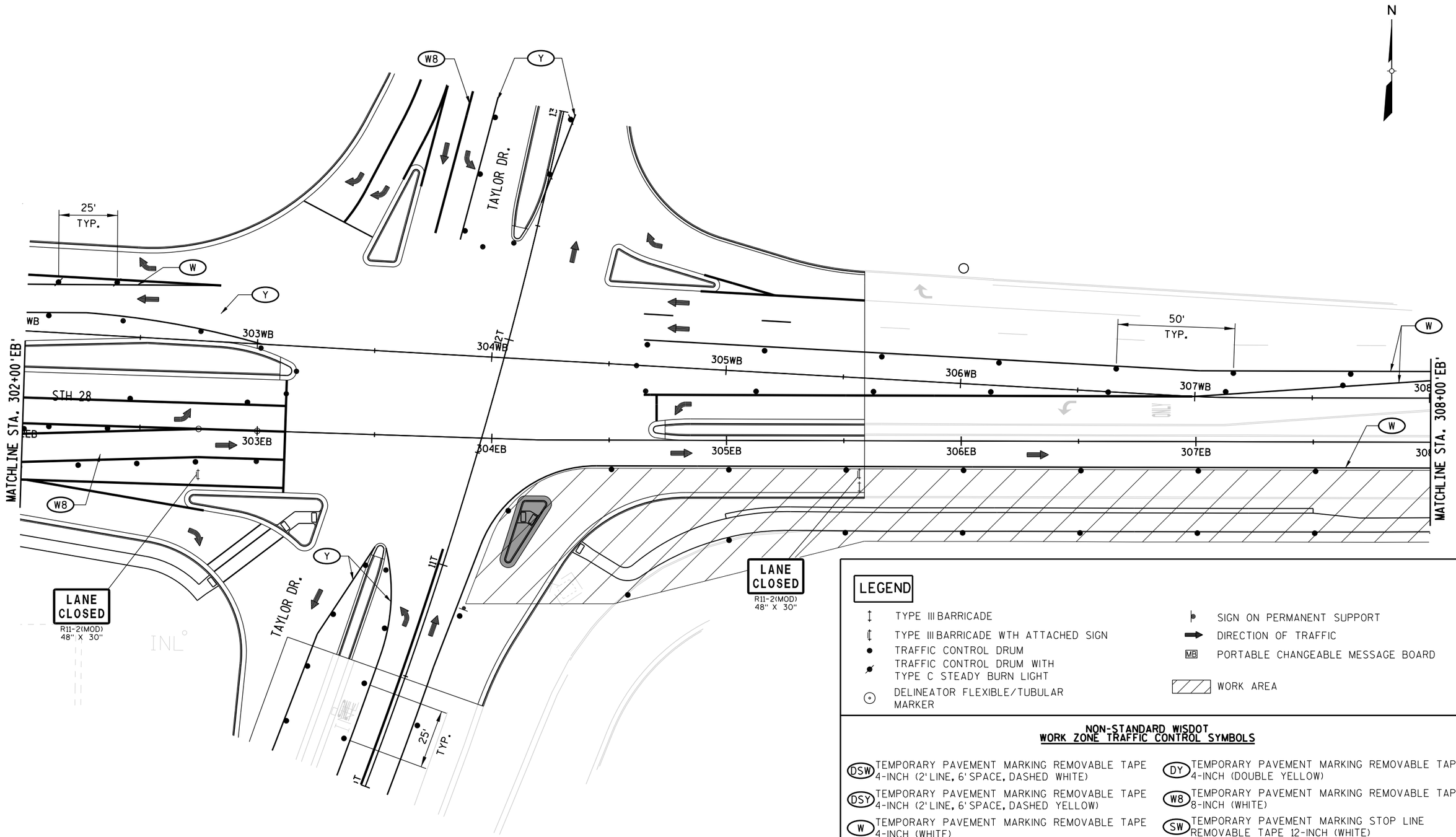


12-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 306	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026512_s3.DGN
BATCH PRINT SHEET 12 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:00:54 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

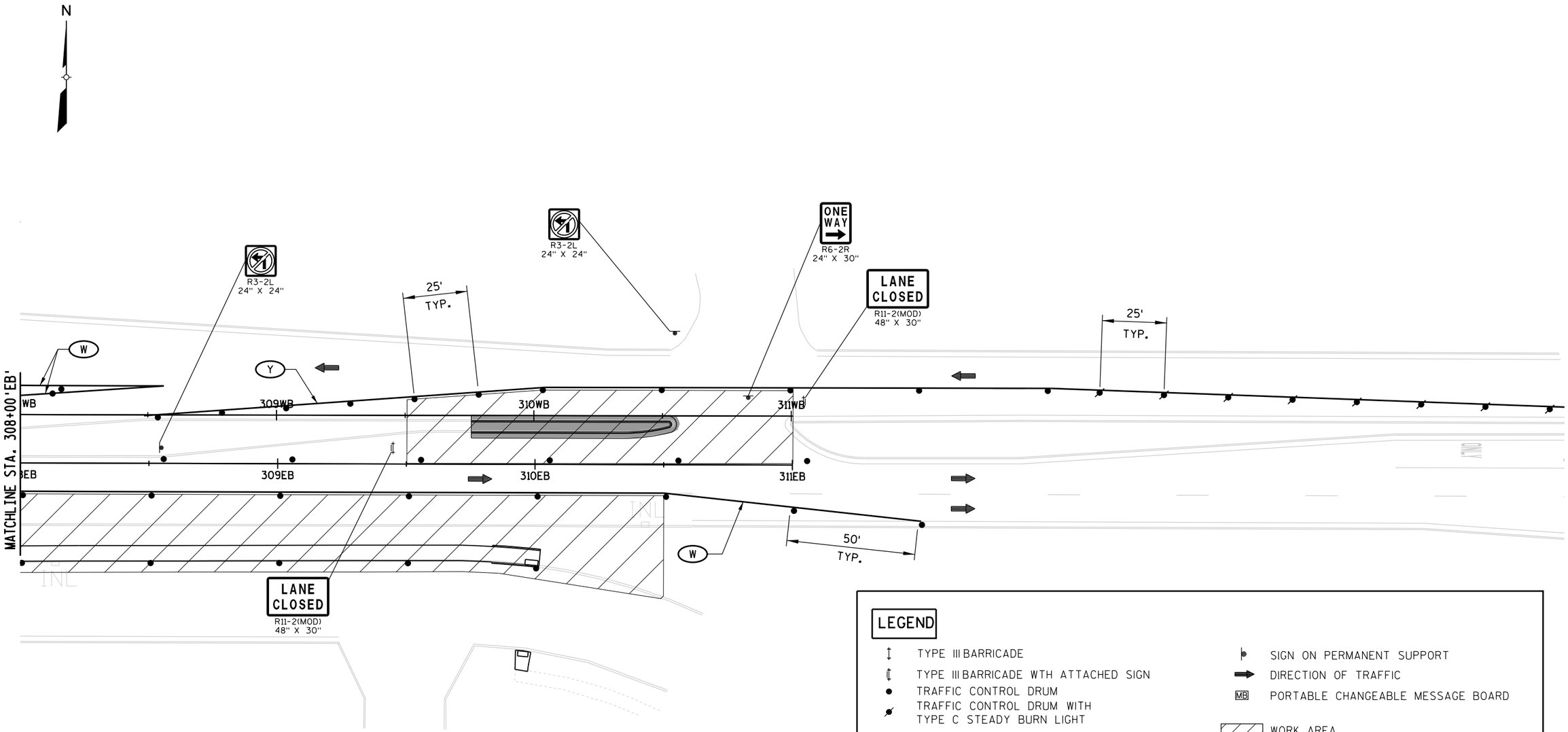
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

13-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 307	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026513_s3.DGN
BATCH PRINT SHEET 13 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:00:59 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

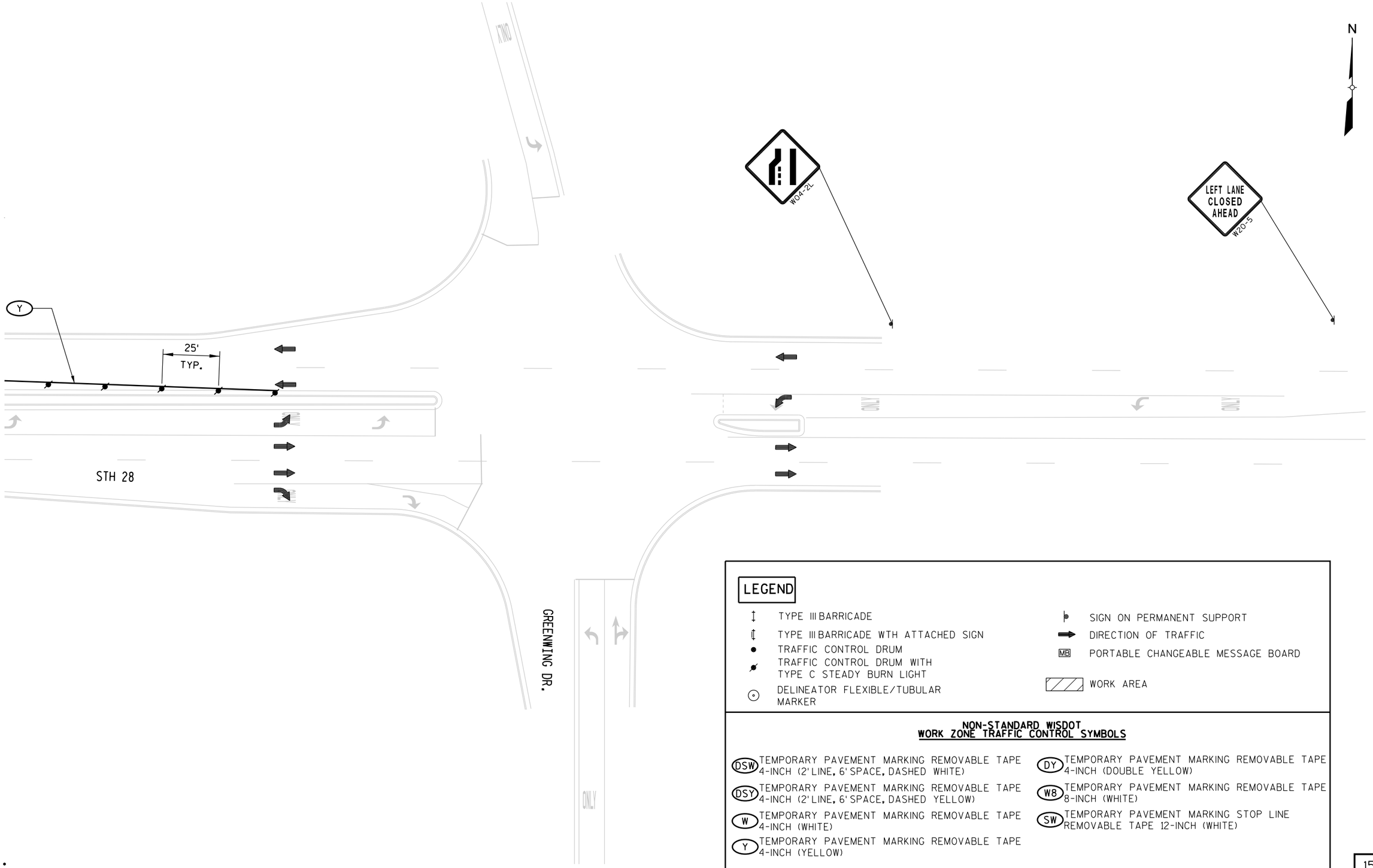
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

14-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 308	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026514_s3.DGN
BATCH PRINT SHEET 14 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:01:05 PM
PLOT SCALE: 1:40
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
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

15-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 309	E

FILE NAME: L:\Users\arbucklea\STH 28 - TC\026515_s3.DGN
BATCH PRINT SHEET 15 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
PEN TABLE: L:\Users\arbucklea\STH 28 - TC\MS_Printing\Pen_Tables\ET_WisDOT.tbl
PLOT DATE: 12/15/2014
PLOT TIME: 2:01:10 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42

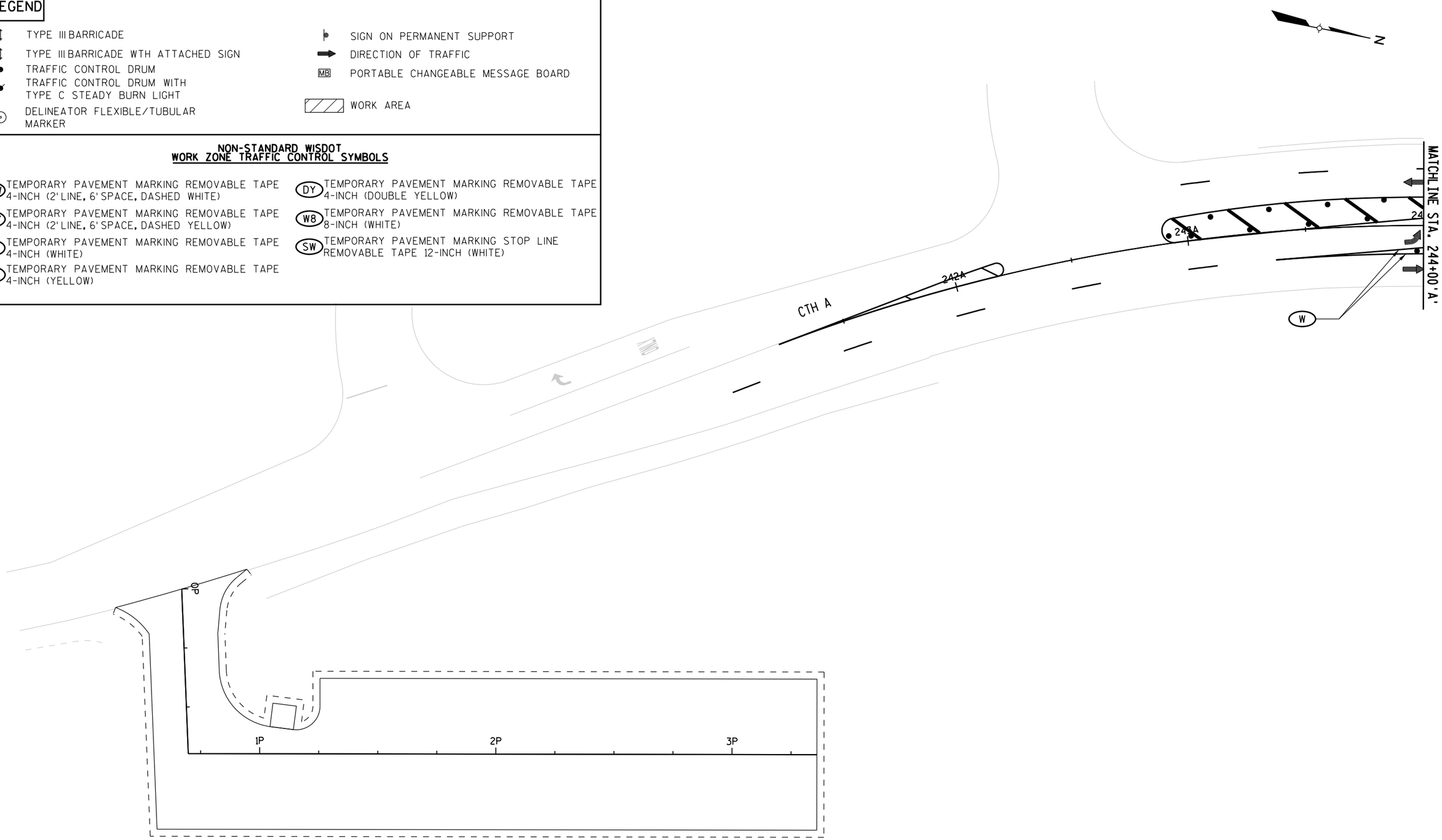
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LEGEND

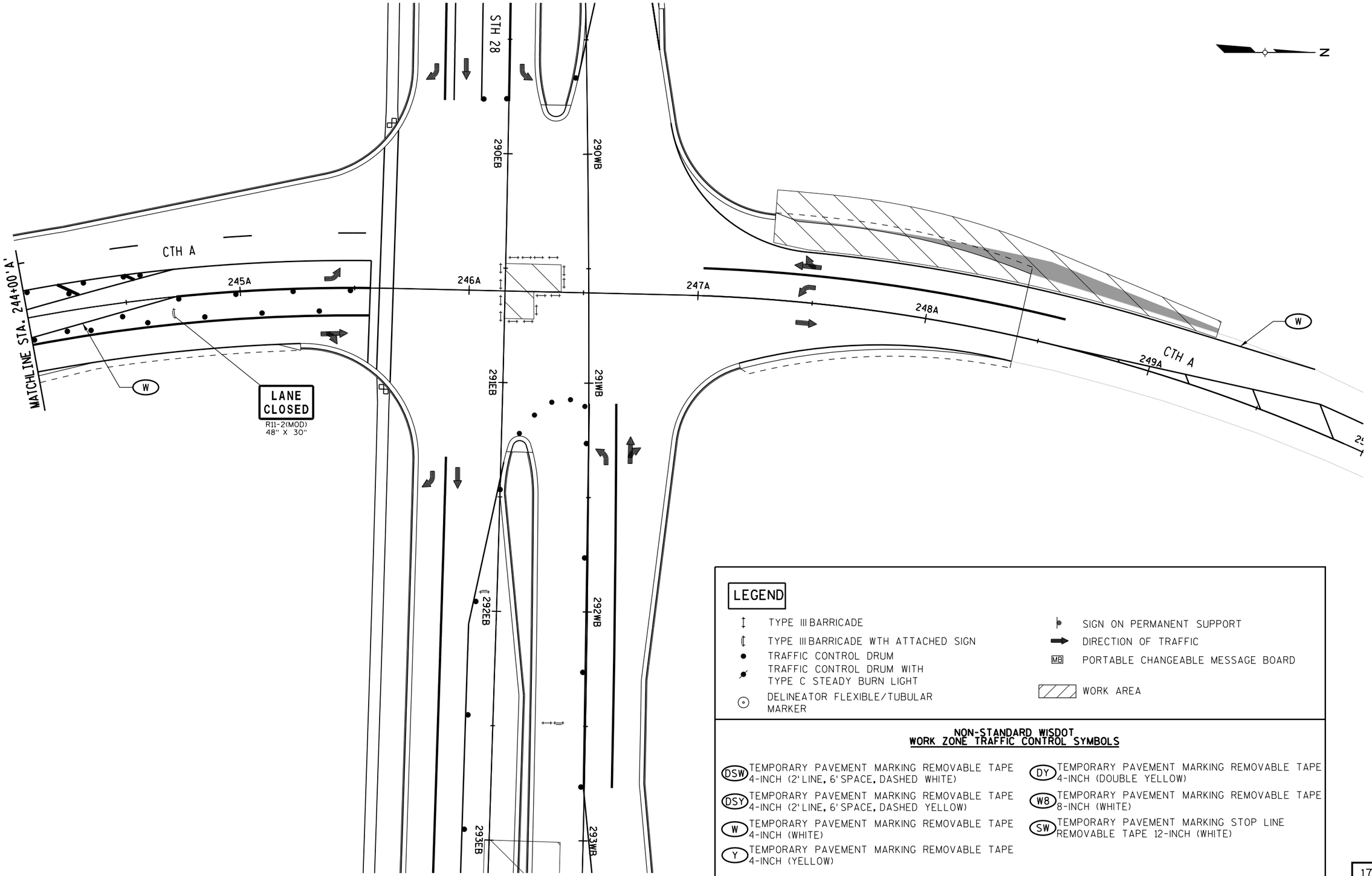
- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)



FILE NAME: L:\Users\arbucklea\STH 28 - TC\026516_s3.DGN
BATCH PRINT SHEET 16 OF 19
PRINTER DRIVER: S:_acm-CADstds_Libraries\WISDOT\Microstation\Resources\MS_Printing\Printer_Drivers\ET_PDF_11 x 17.plt
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PLOT DATE: 12/15/2014
PLOT TIME: 2:01:14 PM
PLOT SCALE: 1:40
WISDOT/CADDS SHEET 42



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

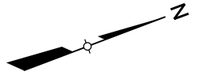
- DSW TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- DSY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- W TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- Y TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- DY TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- W8 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- SW TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

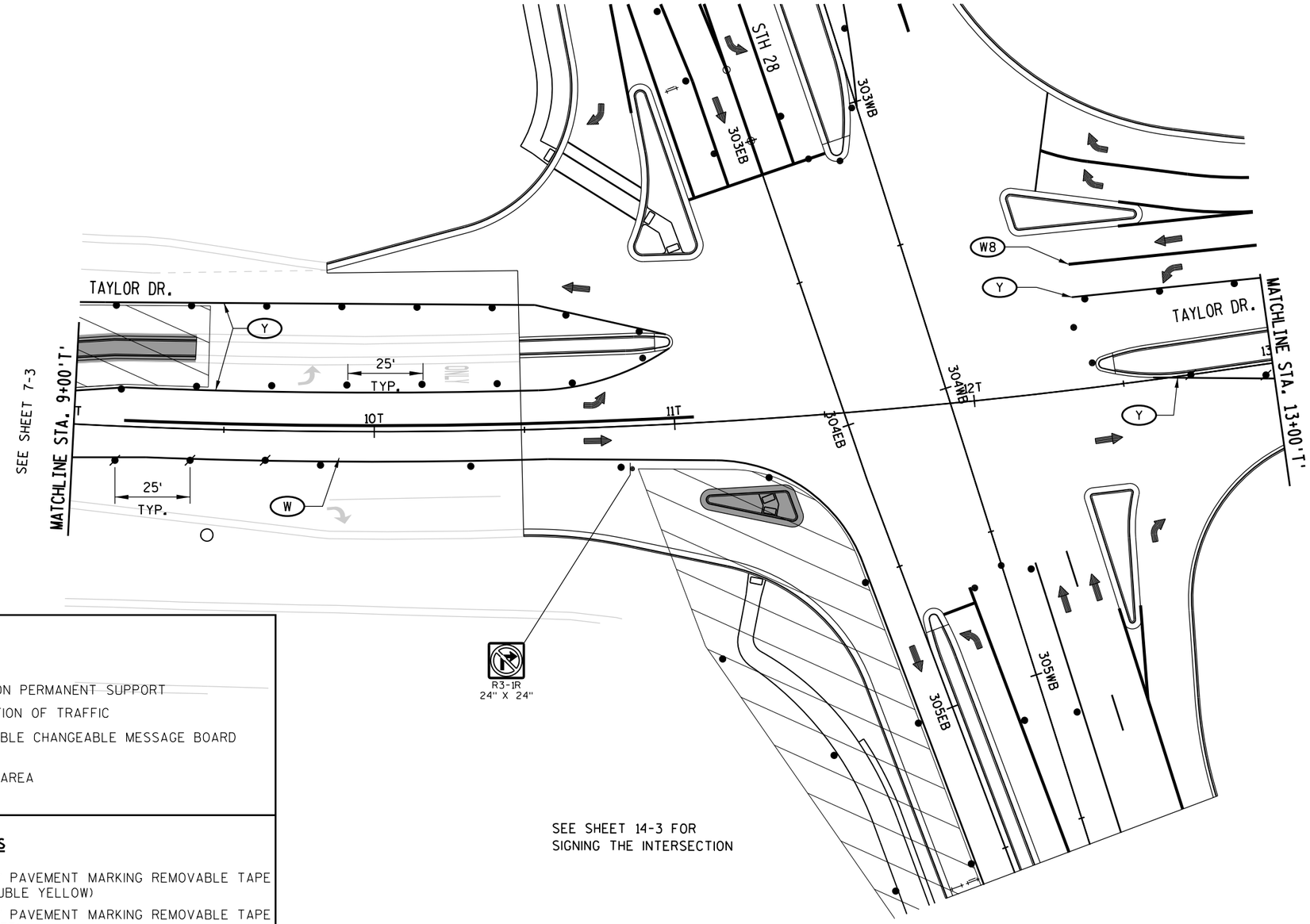
17-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 311 E

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WISDOT/CADDS SHEET 42

2





SEE SHEET 14-3 FOR
SIGNING THE INTERSECTION

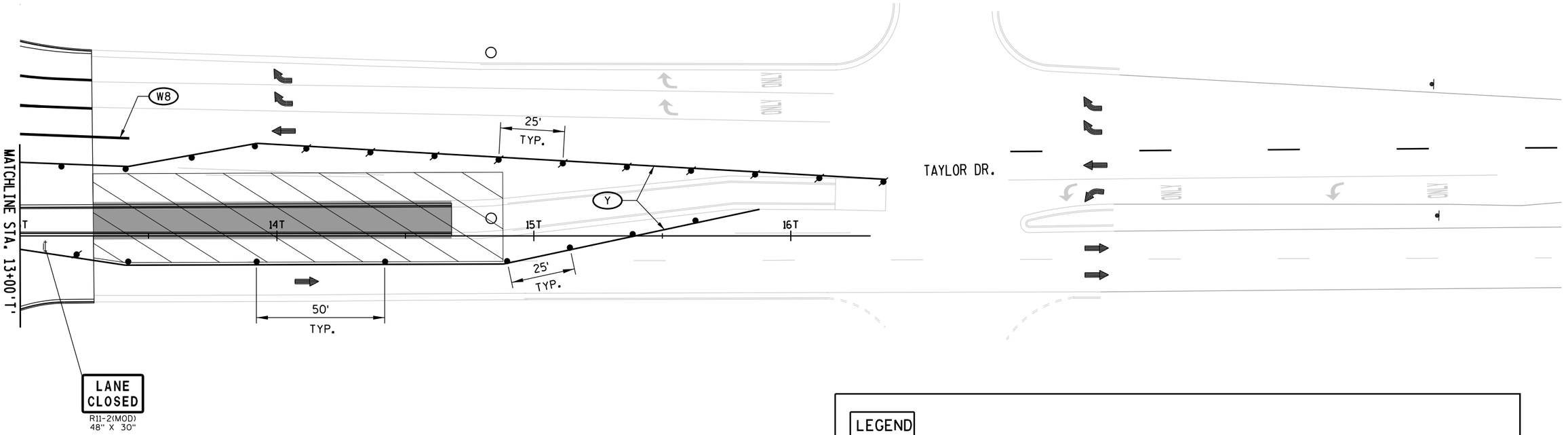
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

2



LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- DELINEATOR FLEXIBLE/TUBULAR MARKER
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA

NON-STANDARD WISDOT WORK ZONE TRAFFIC CONTROL SYMBOLS

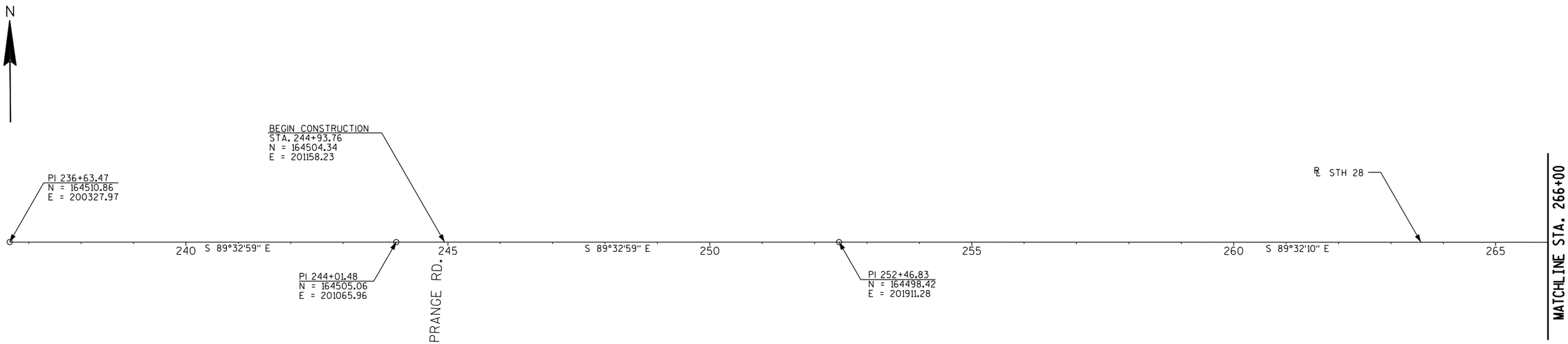
- (DSW) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED WHITE)
- (DSY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (2' LINE, 6' SPACE, DASHED YELLOW)
- (W) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (Y) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (DY) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (W8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (SW) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 12-INCH (WHITE)

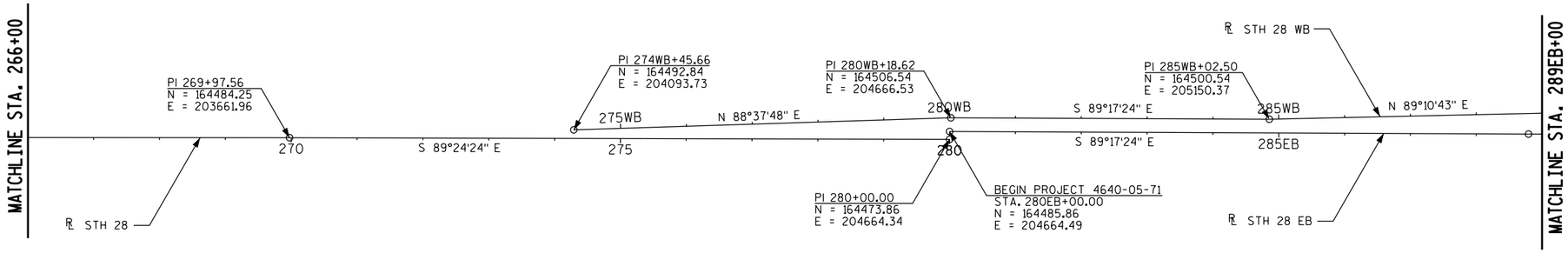
19-3

PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	TRAFFIC CONTROL: STAGE 3	SHEET 313	E

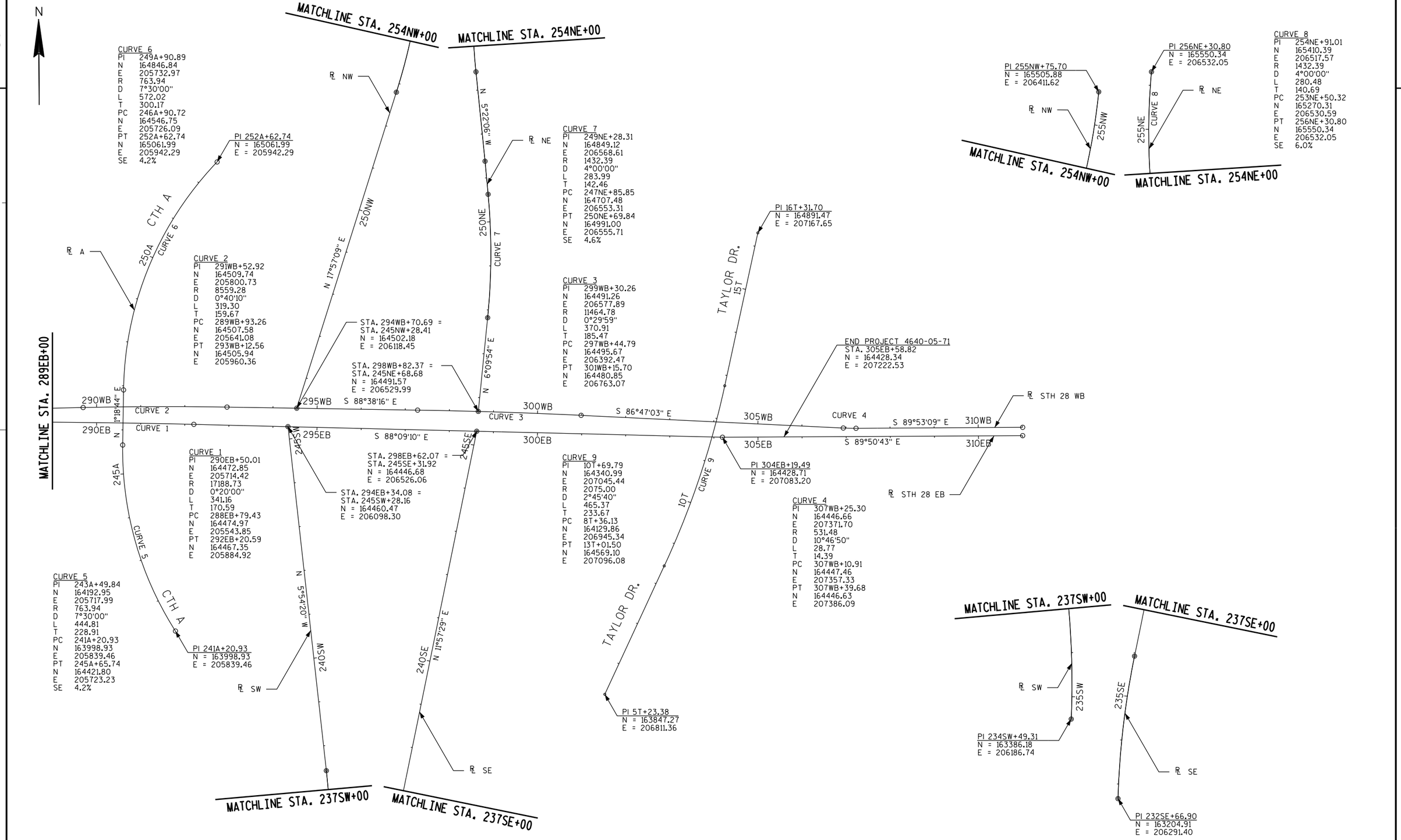
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WISDOT/CADDS SHEET 42

2





PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	ALIGNMENT DIAGRAM	SCALE, FEET 0 100 200	SHEET 314	E



PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	ALIGNMENT DIAGRAM	SCALE, FEET 0 100 200	SHEET 315	E

DATE 01DEC15 E S T I M A T E O F Q U A N T I T I E S

LINE 4640-05-71

NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	203.0100	Removing Small Pipe Culverts	EACH	7.000	7.000
0020	203.0200	Removing Old Structure (station) 01. 263+00	LS	1.000	1.000
0030	204.0100	Removing Pavement	SY	17,520.000	17,520.000
0040	204.0110	Removing Asphaltic Surface	SY	3,580.000	3,580.000
0050	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,690.000	1,690.000
0060	204.0120	Removing Asphaltic Surface Milling	SY	11,170.000	11,170.000
0070	204.0150	Removing Curb & Gutter	LF	1,420.000	1,420.000
0080	204.0155	Removing Concrete Sidewalk	SY	1,220.000	1,220.000
0090	204.0170	Removing Fence	LF	430.000	430.000
0100	204.0180	Removing Delineators and Markers	EACH	12.000	12.000
0110	204.0195	Removing Concrete Bases	EACH	60.000	60.000
0120	204.0210	Removing Manholes	EACH	2.000	2.000
0130	204.0220	Removing Inlets	EACH	21.000	21.000
0140	204.0245	Removing Storm Sewer (size) 01. 12-INCH	LF	468.000	468.000
0150	204.0245	Removing Storm Sewer (size) 02. 18-INCH	LF	284.000	284.000
0160	204.0245	Removing Storm Sewer (size) 03. 24-INCH	LF	187.000	187.000
0170	204.0245	Removing Storm Sewer (size) 04. 30-INCH	LF	70.000	70.000
0180	204.0245	Removing Storm Sewer (size) 05. 36-INCH	LF	31.000	31.000
0190	205.0100	Excavation Common	CY	30,600.000	30,600.000
0200	206.2000	Excavation for Structures Culverts (structure) 01. B-59-102	LS	1.000	1.000
0210	206.5000	Cofferdams (structure) 01. B-59-102	LS	1.000	1.000
0220	210.0100	Backfill Structure	CY	140.000	140.000
0230	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	115.000	115.000
0240	211.0500	Prepare Foundation for Base Aggregate	STA	61.000	61.000
0250	213.0100	Finishing Roadway (project) 01. 4640-05-71	EACH	1.000	1.000
0260	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,083.000	1,083.000
0270	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	17,152.000	17,152.000
0280	305.0500	Shaping Shoulders	STA	40.000	40.000
0290	313.0110	Pit Run	TON	22,711.000	22,711.000
0300	320.0145	Concrete Base 8-Inch	SY	400.000	400.000
0310	415.0080	Concrete Pavement 8-Inch	SY	24,295.000	24,295.000
0320	415.1080	Concrete Pavement HES 8-Inch	SY	7,149.000	7,149.000
0330	416.0610	Drilled Tie Bars	EACH	971.000	971.000
0340	416.0620	Drilled Dowel Bars	EACH	905.000	905.000
0350	416.1010	Concrete Surface Drains	CY	1.330	1.330
0360	440.4410	Incentive IRI Ride	DOL	6,000.000	6,000.000
0370	455.0105	Asphaltic Material PG58-28	TON	190.000	190.000
0380	455.0605	Tack Coat	GAL	1,622.000	1,622.000
0390	460.1100	HMA Pavement Type E-0.3	TON	964.000	964.000
0400	460.1103	HMA Pavement Type E-3	TON	2,489.000	2,489.000
0410	460.2000	Incentive Density HMA Pavement	DOL	1,933.000	1,933.000
0420	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	500.000	500.000
0430	465.0105	Asphaltic Surface	TON	230.000	230.000
0440	465.0125	Asphaltic Surface Temporary	TON	534.000	534.000
0450	465.0315	Asphaltic Flumes	SY	24.000	24.000
0460	502.5002	Masonry Anchors Type L No. 4 Bars	EACH	76.000	76.000
0470	504.0100	Concrete Masonry Culverts	CY	34.000	34.000
0480	505.0400	Bar Steel Reinforcement HS Structures	LB	790.000	790.000
0490	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	1,710.000	1,710.000

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DATE 01DEC15 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	4640-05-71 QUANTITY
0500	516.0500	Rubberized Membrane Waterproofing	SY	21.000	21.000
0510	520.8000	Concrete Collars for Pipe	EACH	8.000	8.000
0520	522.0118	Culvert Pipe Reinforced Concrete Class III 18-Inch	LF	253.000	253.000
0530	522.0318	Culvert Pipe Reinforced Concrete Class IV 18-Inch	LF	558.000	558.000
0540	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	3.000	3.000
0550	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	17.000	17.000
0560	601.0105	Concrete Curb Type A	LF	37.000	37.000
0570	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	750.000	750.000
0580	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	9,550.000	9,550.000
0590	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	239.000	239.000
0600	601.0600	Concrete Curb Pedestrian	LF	37.000	37.000
0610	602.0410	Concrete Sidewalk 5-Inch	SF	15,115.000	15,115.000
0620	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	138.000	138.000
0630	604.0400	Slope Paving Concrete	SY	281.000	281.000
0640	604.0600	Slope Paving Select Crushed Material	SY	200.000	200.000
0650	606.0100	Riprap Light	CY	10.300	10.300
0660	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	500.000	500.000
0670	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	187.000	187.000
0680	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	214.000	214.000
0690	611.0420	Reconstructing Manholes	EACH	8.000	8.000
0700	611.0530	Manhole Covers Type J	EACH	6.000	6.000
0710	611.0612	Inlet Covers Type C	EACH	1.000	1.000
0720	611.0615	Inlet Covers Type F	EACH	2.000	2.000
0730	611.0624	Inlet Covers Type H	EACH	25.000	25.000
0740	611.2004	Manholes 4-FT Diameter	EACH	2.000	2.000
0750	611.2005	Manholes 5-FT Diameter	EACH	1.000	1.000
0760	611.2006	Manholes 6-FT Diameter	EACH	1.000	1.000
0770	611.3004	Inlets 4-FT Diameter	EACH	1.000	1.000
0780	611.3230	Inlets 2x3-FT	EACH	20.000	20.000
0790	611.3253	Inlets 2.5x3-FT	EACH	2.000	2.000
0800	611.8110	Adjusting Manhole Covers	EACH	4.000	4.000
0810	616.0100	Fence Woven Wire (height) 01. 4.5-FEET	LF	430.000	430.000
0820	619.1000	Mobilization	EACH	1.000	1.000
0830	620.0300	Concrete Median Sloped Nose	SF	530.000	530.000
0840	623.0200	Dust Control Surface Treatment	SY	42,540.000	42,540.000
0850	624.0100	Water	MGAL	250.000	250.000
0860	625.0500	Salvaged Topsoil	SY	30,035.000	30,035.000
0870	627.0200	Mulching	SY	16,531.000	16,531.000
0880	628.1504	Silt Fence	LF	1,680.000	1,680.000
0890	628.1520	Silt Fence Maintenance	LF	1,680.000	1,680.000
0900	628.1905	Mobilizations Erosion Control	EACH	21.000	21.000
0910	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0920	628.2004	Erosion Mat Class I Type B	SY	3,651.000	3,651.000
0930	628.2006	Erosion Mat Urban Class I Type A	SY	3,954.000	3,954.000
0940	628.2008	Erosion Mat Urban Class I Type B	SY	718.000	718.000
0950	628.2023	Erosion Mat Class II Type B	SY	336.000	336.000

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DATE 01DEC15 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	4640-05-71 QUANTITY
0960	628.7005	Inlet Protection Type A	EACH	10.000	10.000
0970	628.7010	Inlet Protection Type B	EACH	11.000	11.000
0980	628.7015	Inlet Protection Type C	EACH	44.000	44.000
0990	628.7555	Culvert Pipe Checks	EACH	100.000	100.000
1000	628.7570	Rock Bags	EACH	19.000	19.000
1010	629.0210	Fertilizer Type B	CWT	12.000	12.000
1020	630.0120	Seeding Mixture No. 20	LB	28.000	28.000
1030	630.0130	Seeding Mixture No. 30	LB	47.000	47.000
1040	630.0140	Seeding Mixture No. 40	LB	30.000	30.000
1050	633.0100	Delineator Posts Steel	EACH	16.000	16.000
1060	633.0500	Delineator Reflectors	EACH	16.000	16.000
1070	633.5200	Markers Culvert End	EACH	20.000	20.000
1080	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	14.000	14.000
1090	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	78.000	78.000
1100	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	12.000	12.000
1110	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	3.000	3.000
1120	635.0200	Sign Supports Structural Steel HS	LB	1,956.000	1,956.000
1130	636.0100	Sign Supports Concrete Masonry	CY	3.200	3.200
1140	636.0500	Sign Supports Steel Reinforcement	LB	196.000	196.000
1150	637.1220	Signs Type I Reflective SH	SF	494.000	494.000
1160	637.2210	Signs Type II Reflective H	SF	1,392.630	1,392.630
1170	637.2215	Signs Type II Reflective H Folding	SF	117.600	117.600
1180	637.2230	Signs Type II Reflective F	SF	102.000	102.000
1190	638.2601	Removing Signs Type I	EACH	2.000	2.000
1200	638.2602	Removing Signs Type II	EACH	103.000	103.000
1210	638.3000	Removing Small Sign Supports	EACH	70.000	70.000
1220	641.8100	Overhead Sign Support (structure) 01. S-59-20	LS	1.000	1.000
1230	641.8100	Overhead Sign Support (structure) 02. S-59-24	LS	1.000	1.000
1240	641.8100	Overhead Sign Support (structure) 03. S-59-22	LS	1.000	1.000
1250	641.8100	Overhead Sign Support (structure) 04. S-59-23	LS	1.000	1.000
1260	642.5201	Field Office Type C	EACH	1.000	1.000
1270	643.0200	Traffic Control Surveillance and Maintenance (project) 01. 4640-05-71	DAY	165.000	165.000
1280	643.0300	Traffic Control Drums	DAY	52,530.000	52,530.000
1290	643.0420	Traffic Control Barricades Type III	DAY	9,715.000	9,715.000
1300	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	287.000	287.000
1310	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	287.000	287.000
1320	643.0705	Traffic Control Warning Lights Type A	DAY	12,745.000	12,745.000
1330	643.0715	Traffic Control Warning Lights Type C	DAY	8,240.000	8,240.000
1340	643.0900	Traffic Control Signs	DAY	10,610.000	10,610.000
1350	643.0910	Traffic Control Covering Signs Type I	EACH	2.000	2.000
1360	643.0920	Traffic Control Covering Signs Type II	EACH	8.000	8.000
1370	643.1000	Traffic Control Signs Fixed Message	SF	332.000	332.000
1380	643.1050	Traffic Control Signs PCMS	DAY	170.000	170.000
1390	643.2000	Traffic Control Detour (project) 01. 4640-05-71	EACH	1.000	1.000
1400	643.3000	Traffic Control Detour Signs	DAY	15,438.000	15,438.000
1410	645.0130	Geotextile Fabric Type R	SY	31.000	31.000
1420	646.0106	Pavement Marking Epoxy 4-Inch	LF	17,668.000	17,668.000

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DATE 01DEC15 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	4640-05-71 QUANTITY
1430	646.0126	Pavement Marking Epoxy 8-Inch	LF	8,670.000	8,670.000
1440	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	51.000	51.000
1450	647.0176	Pavement Marking Arrows Epoxy Type 3	EACH	6.000	6.000
1460	647.0356	Pavement Marking Words Epoxy	EACH	40.000	40.000
1470	647.0456	Pavement Marking Curb Epoxy	LF	531.000	531.000
1480	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	480.000	480.000
1490	647.0606	Pavement Marking Island Nose Epoxy	EACH	10.000	10.000
1500	647.0656	Pavement Marking Parking Stall Epoxy	LF	950.000	950.000
1510	647.0706	Pavement Marking Diagonal Epoxy 6-Inch	LF	40.000	40.000
1520	647.0716	Pavement Marking Diagonal Epoxy 8-Inch	LF	363.000	363.000
1530	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	1,006.000	1,006.000
1540	647.0736	Pavement Marking Diagonal Epoxy 18-Inch	LF	574.000	574.000
1550	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	566.000	566.000
1560	647.0796	Pavement Marking Crosswalk Epoxy 24-Inch	LF	48.000	48.000
1570	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	78,810.000	78,810.000
1580	649.0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	5,340.000	5,340.000
1590	649.1000	Temporary Pavement Marking Stop Line Removable Tape 12-Inch	LF	250.000	250.000
1600	650.4500	Construction Staking Subgrade	LF	13,229.000	13,229.000
1610	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	319.000	319.000
1620	650.6500	Construction Staking Structure Layout (structure) 01. B-59-102	LS	1.000	1.000
1630	650.7000	Construction Staking Concrete Pavement	LF	6,876.000	6,876.000
1640	650.8000	Construction Staking Resurfacing Reference	LF	3,459.000	3,459.000
1650	650.8500	Construction Staking Electrical Installations (project) 01. 4640-05-71	LS	1.000	1.000
1660	650.9910	Construction Staking Supplemental Control (project) 01. 4640-05-71	LS	1.000	1.000
1670	650.9920	Construction Staking Slope Stakes	LF	13,229.000	13,229.000
1680	652.0210	Conduit Rigid Nonmetallic Schedule 40 1-Inch	LF	1,490.000	1,490.000
1690	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	2,041.000	2,041.000
1700	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	6,341.000	6,341.000
1710	652.0700.S	Install Conduit into Existing Item	EACH	2.000	2.000
1720	652.0800	Conduit Loop Detector	LF	2,780.000	2,780.000
1730	653.0105	Pull Boxes Steel 12x24-Inch	EACH	40.000	40.000
1740	653.0135	Pull Boxes Steel 24x36-Inch	EACH	4.000	4.000
1750	653.0140	Pull Boxes Steel 24x42-Inch	EACH	50.000	50.000
1760	653.0905	Removing Pull Boxes	EACH	81.000	81.000
1770	654.0101	Concrete Bases Type 1	EACH	24.000	24.000
1780	654.0102	Concrete Bases Type 2	EACH	8.000	8.000
1790	654.0105	Concrete Bases Type 5	EACH	6.000	6.000
1800	654.0110	Concrete Bases Type 10	EACH	3.000	3.000
1810	654.0113	Concrete Bases Type 13	EACH	11.000	11.000
1820	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	4.000	4.000
1830	654.0220	Concrete Control Cabinet Bases Type 10	EACH	1.000	1.000
1840	655.0230	Cable Traffic Signal 5-14 AWG	LF	8,295.000	8,295.000
1850	655.0240	Cable Traffic Signal 7-14 AWG	LF	1,278.000	1,278.000

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DATE 01DEC15 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	4640-05-71 QUANTITY
1860	655.0260	Cable Traffic Signal 12-14 AWG	LF	5,206.000	5,206.000
1870	655.0270	Cable Traffic Signal 15-14 AWG	LF	1,476.000	1,476.000
1880	655.0305	Cable Type UF 2-12 AWG Grounded	LF	2,780.000	2,780.000
1890	655.0320	Cable Type UF 2-10 AWG Grounded	LF	1,691.000	1,691.000
1900	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	9,170.000	9,170.000
1910	655.0610	Electrical Wire Lighting 12 AWG	LF	1,800.000	1,800.000
1920	655.0615	Electrical Wire Lighting 10 AWG	LF	1,800.000	1,800.000
1930	655.0700	Loop Detector Lead In Cable	LF	7,602.000	7,602.000
1940	655.0800	Loop Detector Wire	LF	7,752.000	7,752.000
1950	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. STH 28 & CTH A	LS	1.000	1.000
1960	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. IH 43 SB & STH 28	LS	1.000	1.000
1970	656.0200	Electrical Service Meter Breaker Pedestal (location) 03. IH 43 NB & STH 28	LS	1.000	1.000
1980	656.0200	Electrical Service Meter Breaker Pedestal (location) 04. STH 28 & S Taylor Drive	LS	1.000	1.000
1990	657.0100	Pedestal Bases	EACH	24.000	24.000
2000	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	11.000	11.000
2010	657.0315	Poles Type 4	EACH	8.000	8.000
2020	657.0322	Poles Type 5-Aluminum	EACH	3.000	3.000
2030	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	13.000	13.000
2040	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	6.000	6.000
2050	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	5.000	5.000
2060	657.0609	Luminaire Arms Single Member 4-Inch Clamp 6-FT	EACH	10.000	10.000
2070	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	5.000	5.000
2080	657.0709	Luminaire Arms Truss Type 4-Inch Clamp 12-FT	EACH	2.000	2.000
2090	657.1350	Install Poles Type 10	EACH	3.000	3.000
2100	657.1355	Install Poles Type 12	EACH	4.000	4.000
2110	657.1360	Install Poles Type 13	EACH	7.000	7.000
2120	657.1530	Install Monotube Arms 30-FT	EACH	3.000	3.000
2130	657.1540	Install Monotube Arms 40-FT	EACH	2.000	2.000
2140	657.1545	Install Monotube Arms 45-FT	EACH	4.000	4.000
2150	657.1550	Install Monotube Arms 50-FT	EACH	1.000	1.000
2160	657.1555	Install Monotube Arms 55-FT	EACH	4.000	4.000
2170	657.1812	Install Luminaire Arms Steel 12-FT	EACH	10.000	10.000
2180	658.0110	Traffic Signal Face 3-12 Inch Vertical	EACH	61.000	61.000
2190	658.0115	Traffic Signal Face 4-12 Inch Vertical	EACH	13.000	13.000
2200	658.0215	Backplates Signal Face 3 Section 12-Inch	EACH	61.000	61.000
2210	658.0220	Backplates Signal Face 4 Section 12-Inch	EACH	13.000	13.000
2220	658.0416	Pedestrian Signal Face 16-Inch	EACH	12.000	12.000
2230	658.0500	Pedestrian Push Buttons	EACH	11.000	11.000
2240	658.0600	Led Modules 12-Inch Red Ball	EACH	53.000	53.000
2250	658.0605	Led Modules 12-Inch Yellow Ball	EACH	45.000	45.000
2260	658.0610	Led Modules 12-Inch Green Ball	EACH	45.000	45.000
2270	658.0615	Led Modules 12-Inch Red Arrow	EACH	21.000	21.000
2280	658.0620	Led Modules 12-Inch Yellow Arrow	EACH	42.000	42.000
2290	658.0625	Led Modules 12-Inch Green Arrow	EACH	29.000	29.000

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DATE 01DEC15 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	4640-05-71 QUANTITY
2300	658.0635	Led Modules Pedestrian Countdown Timer 16-Inch	EACH	12.000	12.000
2310	658.5069	Signal Mounting Hardware (location) 01. CTH A & STH 28	LS	1.000	1.000
2320	658.5069	Signal Mounting Hardware (location) 02. IH 43 SB & STH 28	LS	1.000	1.000
2330	658.5069	Signal Mounting Hardware (location) 03. IH 43 NB & STH 28	LS	1.000	1.000
2340	658.5069	Signal Mounting Hardware (location) 04. STH 28 & S Taylor Drive	LS	1.000	1.000
2350	659.1115	Luminaires Utility LED A	EACH	1.000	1.000
2360	659.1125	Luminaires Utility LED C	EACH	12.000	12.000
2370	661.0200	Temporary Traffic Signals for Intersections (location) 01. CTH A & STH 28	LS	1.000	1.000
2380	661.0200	Temporary Traffic Signals for Intersections (location) 02. IH 43 SB & STH 28	LS	1.000	1.000
2390	661.0200	Temporary Traffic Signals for Intersections (location) 03. IH 43 NB & STH 28	LS	1.000	1.000
2400	661.0200	Temporary Traffic Signals for Intersections (location) 04. STH 28 & Taylor Drive	LS	1.000	1.000
2410	690.0150	Sawing Asphalt	LF	172.000	172.000
2420	690.0250	Sawing Concrete	LF	810.000	810.000
2430	715.0415	Incentive Strength Concrete Pavement	DOL	7,464.000	7,464.000
2440	715.0502	Incentive Strength Concrete Structures	DOL	500.000	500.000
2450	999.1950.S	Bicycle Rack Asphalt or Concrete-Mounted	EACH	1.000	1.000
2460	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
2470	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,100.000	2,100.000
2480	SPV.0035	Special 10. Coloring Concrete Butterfield U317 Terra Cotta Unimix	CY	477.000	477.000
2490	SPV.0060	Special 10. Traffic Signal Controller and Cabinet STH 28 & S Taylor Drive	EACH	1.000	1.000
2500	SPV.0060	Special 11. GPS Device with GPS Receiver STH 28 & Greenwing Drive	EACH	1.000	1.000
2510	SPV.0060	Special 12. Luminaires Utility Type 1	EACH	11.000	11.000
2520	SPV.0060	Special 13. Luminaires Utility Type 2	EACH	4.000	4.000
2530	SPV.0105	Special 01. Removing Sign Cantilever S-59-18	LS	1.000	1.000
2540	SPV.0105	Special 02. Removing Sign Bridge S-59-20	LS	1.000	1.000
2550	SPV.0105	Special 07. Railing Steel Pipe Galvanized Pedestrian	LS	1.000	1.000
2560	SPV.0105	Special 10. Remove Traffic Signals STH 28 & S Taylor Drive	LS	1.000	1.000
2570	SPV.0105	Special 11. Emergency Vehicle Preemtion System STH 28 & S Taylor Drive	LS	1.000	1.000
2580	SPV.0105	Special 13. Temporary Non-Intrusive Vehicle Detection System Taylor Drive	LS	1.000	1.000
2590	SPV.0105	Special 14. Temporary Non-Intrusive Vehicle Detection System 32nd Street	LS	1.000	1.000
2600	SPV.0105	Special 17. Temporary Infrared EVP System STH 28 & S Taylor Drive	LS	1.000	1.000
2610	SPV.0105	Special 18. Vehicular Video Detection System STH 28 & S Taylor Drive	LS	1.000	1.000

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DATE 01DEC15 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	4640-05-71 QUANTITY
2620	SPV.0105	Special 20. Temporary Traffic Signal STH 28 & 32nd Street	LS	1.000	1.000
2630	SPV.0105	Special 21. Salvage and Reinstall Ramp Closure Gates IH 43 SB	LS	1.000	1.000
2640	SPV.0105	Special 22. Salvage and Reinstall Ramp Closure Gates IH 43 NB	LS	1.000	1.000
2650	SPV.0105	Special 25. Remove Traffic Signal (STH 28 & CTH A)	LS	1.000	1.000
2660	SPV.0105	Special 26. Remove Traffic Signal (IH 43 SB & STH 28)	LS	1.000	1.000
2670	SPV.0105	Special 27. Remove Traffic Signal (IH 43 NB & STH 28)	LS	1.000	1.000
2680	SPV.0165	Special 01. Stamped Concrete Sidewalk (5-Inch)	SF	30,900.000	30,900.000
2690	SPV.0165	Special 02. Wall Modular Block Gravity LRFD **P**	SF	840.000	840.000

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REMOVING SMALL PIPE CULVERTS

STATION	LOCATION	203.0100 EACH
280EB+70 - 281EB+34	RT	2
284EB+78 - 285EB+39	LT	1
289EB+94 - 291EB+08	RT	1
290EB+00 - 291EB+04	LT	1
294EB+01 - 294EB+60	RT	1
294EB+08 - 294EB+86	LT	1
TOTAL		7

REMOVING ASPHALTIC SURFACE

STAGE	STATION	LOCATION	204.0110 SY
STAGE 1B	244+93 - 258+77	LT	465
	268+39 - 280EB+02	LT	395
	298EB+94 - 299EB+47	LT	65
STAGE 1C	298EB+75 - 298EB+94	RT	30
	246A+94 - 248A+41	RT	85
	246NE+14 - 249NE+35	LT	175
	11T+20 - 11T+39	RT	15
STAGE 2A	245+76 - 258+63	RT	410
	272+14 - 279+13	RT	290
	299EB+11 - 299EB+48	LT/RT	30
STAGE 2A/2B	291EB+28 - 292EB+00	LT	55
	293EB+25 - 293EB+90	LT/RT	80
	299EB+49 - 300EB+42	LT/RT	125
	304EB+64 - 304EB+90	LT	20
STAGE 2C	289EB+50 - 290EB+01	LT	50
	293EB+90 - 294EB+25	LT	40
	302EB+90 - 303EB+26	LT	45
	244SE+79 - 245SE+12	RT	50
STAGE 3	293EB+55 - 294EB+26	LT	170
	298EB+78 - 299EB+48	LT	240
	309EB+75 - 310EB+56	LT	80
	247A+37 - 249A+23	LT	75
	245NE+96 - 246NE+71	RT	215
	8T+39 - 9T+40	LT	105
	11T+07 - 11T+41	RT	40
	13T+29 - 14T+68	LT/RT	230
TOTAL			3,580

REMOVING ASPHALTIC SURFACE ITEMS

STATION	LOCATION	204.0115 BUTT JOINTS SY	204.0120 MILLING SY
270+64 - 271+64	STH 28	290	-
271+64 - 280EB+00	STH 28	-	4,050
237SW+71 - 238SW+71	SB ON-RAMP	270	-
238SW+71 - 243SW+16	SB ON-RAMP	-	1,260
249NW+43 - 251NW+00	SB OFF-RAMP	-	740
251NW+00 - 252NW+00	SB OFF-RAMP	340	-
237SE+16 - 238SE+16	NB OFF-RAMP	410	-
238SE+16 - 242SE+25	NB OFF-RAMP	-	2,240
249NE+36 - 252NE+62	NB ON-RAMP	-	900
252NE+62 - 253NE+62	NB ON-RAMP	275	-
0P+00 - 0P+25	PARK AND RIDE	105	-
0P+25 - 3P+35	PARK AND RIDE	-	1,980
TOTAL		1,690	11,170

REMOVING CURB & GUTTER

STAGE	STATION	LOCATION	204.0150 LF
STAGE 1A	289EB+50 - 290EB+01	LT	70
	291EB+28 - 292EB+00	LT	110
	293EB+25 - 294EB+25	LT	120
	298EB+75 - 300EB+42	LT/RT	260
	302EB+90 - 303EB+26	LT	60
	309EB+75 - 310EB+56	LT	160
	246A+96 - 247A+43	RT	50
	8T+39 - 9T+40	LT	200
	11T+20 - 11T+40	RT	50
	13T+29 - 14T+68	LT	280
STAGE 1B	304EB+64 - 304EB+90	LT	40
STAGE 3	309EB+83 - 310EB+02	RT	20
TOTAL			1,420

REMOVING CONCRETE SIDEWALK

STATION	LOCATION	204.0150 SY
281EB+46 - 283EB+50	LT	90
291EB+30 - 292EB+03	LT	30
294EB+89 - 298EB+26	LT	530
296EB+14 - 297EB+56	RT	75
296EB+21 - 297EB+64	LT	70
309EB+75 - 310EB+56	LT	30
245NW+45 - 245NW+79	RT	20
244SE+71 - 245SE+09	RT	20
8T+39 - 9T+40	LT	50
10T+49 - 10T+95	LT	20
10T+97 - 11T+10	LT	15
11T+20 - 11T+40	RT	15
12T+17 - 12T+42	LT	15
12T+30 - 14T+68	LT	240
TOTAL		1,220

REMOVING FENCE

STATION	LOCATION	204.0170 LF
248NE+81 - 253NE+02	RT	430
TOTAL		430

REMOVING DELINEATORS AND MARKERS

STATION	LOCATION	204.0180 EACH
245NW+54 - 249NW+43	LT	4
242SE+25 - 245SE+08	RT	2
245NE+95 - 253NE+62	RT	6
TOTAL		12

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

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REMOVING PAVEMENT

STATION	204.0100 SY
290EB+99 - 305EB+59	17,300
284EB+78 - 285EB+39	220
TOTAL	17,520

REMOVING MANHOLES AND INLETS

STRUCTURE NO.	STATION	LOCATION	204.0210 MANHOLES EACH	204.0220 INLETS EACH
1	281EB+52	0' LT	-	1
2	281EB+52	7' LT	-	1
5	285EB+59	19' LT	-	1
10	291EB+50	0' LT	-	1
9	291EB+50	6.5' LT	-	1
12	294EB+12	1' LT	-	1
13	294EB+15	29' LT	-	1
16	298EB+19	19' LT	-	1
17	298EB+20	27' LT	-	1
18	298EB+76	34' LT	-	1
21	299EB+11	81' RT	1	-
27	299EB+29	89' LT	-	1
26	299EB+99	89' LT	-	1
30A	303EB+00	86' LT	-	1
32	303EB+19	20' LT	-	1
31	303EB+20	26' LT	-	1
22	244SE+81	15' RT	-	1
28	246NE+37	16' RT	-	1
37	10T+21	63' LT	-	1
38	10T+25	64' LT	-	1
41	10T+94	37' RT	-	1
34	11T+00	26' LT	-	1
30	303EB+04	28' LT	1	-
TOTAL			2	21

REMOVING STORM SEWER

STATION	LOCATION	204.0245.01 12-INCH LF	204.0245.02 18-INCH LF	204.0245.03 24-INCH LF	204.0245.04 30-INCH LF	204.0245.05 36-INCH LF
281EB+52	LT	12	-	-	-	-
285EB+60	LT	11	-	-	-	-
291EB+50 - 291EB+52	RT	52	-	-	-	-
293EB+98 - 294EB+12	LT	89	-	-	-	-
298EB+19 - 299EB+82	LT	173	-	-	-	-
298EB+86 - 299EB+66	LT	-	140	-	-	-
299EB+11 - 299EB+82	LT/RT	-	-	187	-	-
299EB+66 - 299EB+99	LT	37	-	-	-	-
302EB+33 - 303EB+00	RT	-	-	-	70	-
303EB+04 - 303EB+31	LT	33	-	-	-	-
303EB+33 - 303EB+69	RT	36	-	-	-	-
245A+21 - 245A+44	LT	-	27	-	-	-
244SE+29 - 244SE+70	LT/RT	-	117	-	-	-
10T+36 - 10T+58	LT	25	-	-	-	-
10T+64 - 10T+94	RT	-	-	-	-	31
TOTAL		468	284	187	70	31

SHAPING SHOULDERS

STATION	LOCATION	305.0500 STA
237SW+71 - 243SW+16	LT/RT	10
249NW+43 - 252NW+00	LT/RT	6
237SE+16 - 242SE+25	LT/RT	10
249NE+36 - 253NE+62	LT/RT	8
0P+00 - 3P+36	LT/RT	6
TOTAL		40

PREPARING FOUNDATION

STATION	LOCATION	211.0400 ASPHALTIC SHOULDERS STA	211.0500 BASE AGGREGATE STA
244+94 - 258+77	LT	14	-
245+77 - 258+63	RT	13	-
268+39 - 270+64	LT	2	-
270+64 - 276+58	LT	6	-
272+14 - 276+58	RT	4	-
276+58 - 280+00	LT/RT	7	-
280WB+00 - 290WB+60	LT	11	-
280EB+00 - 305EB+59	MAINLINE	-	26
237SW+71 - 244SW+92	LT/RT	14	7
245NW+54 - 252NW+00	LT/RT	13	6
237SE+16 - 245SE+08	LT/RT	16	8
245NE+95 - 246NE+56	LT	1	1
246NE+56 - 253NE+62	LT/RT	14	7
244A+07 - 245A+80	MAINLINE	-	2
246A+34 - 247A+50	MAINLINE	-	1
10T+49 - 13T+29	MAINLINE	-	3
TOTAL		115	61

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ALL ITEMS IN CATEGORY 0010

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Division	From/To Station	Location	Excavation Common (CY) (1) 205.0100		Fill (CY)	Mass Ordinate +/- (3)	Comment:
			Cut (CY)	EBS (CY)			
1	278+60-310+00	STH 28	19,778	500	2,305	17,473	
	244+00-244+89	SW RAMP	795	100	73	722	
	245+58-249+43	NW RAMP	2,482	100	84	2,398	
	242+25-245+00	SE RAMP	1,468	100	102	1,366	
	246+00-253+62	NE RAMP	3,386	100	261	3,125	
	244+07-247+74	CTH A	1,691	100	422	1,269	
Project 4640-05-71 - Division 1 Subtotal			29,600	1,000	3,247	26,353	

Project 4640-05-71 Totals **30,600**

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

BASE AGGREGATE DENSE ITEMS

STAGE	STATION			LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	313.0110 PIT RUN TON	624.0100 WATER MGAL
STAGE 1A	249NE+36	-	253NE+62	LT	40	-	-	0.4
	289EB+50	-	290EB+01	LT	-	30	-	0.3
	291EB+28	-	292EB+00	LT	-	35	-	0.4
	293EB+25	-	294EB+25	LT	-	100	-	1.0
	298EB+75	-	300EB+42	LT/RT	-	300	-	3.0
	302EB+90	-	303EB+26	LT	-	30	-	0.3
	309EB+75	-	310EB+52	LT	-	105	-	1.0
	246A+94	-	248A+41	RT	-	55	-	0.2
	246NE+15	-	249NE+36	LT	-	110	-	1.0
	8T+39	-	9T+40	LT	-	50	-	0.2
	11T+20	-	11T+41	RT	-	10	-	0.1
	13T+29	-	14T+68	LT	-	120	-	1.2
	UNDISTRIBUTED				15	470	-	5.0
SUBTOTAL					55	1415	0	14.1
STAGE 1B	244+91	-	258+95	LT	80	-	-	0.8
	268+26	-	298EB+36	LT	125	-	-	1.2
	280EB+00	-	280EB+50	LT	-	10	-	0.1
	280EB+02	-	290EB+49	LT	-	1,985	2,900	20.0
	281EB+50	-	289EB+50	LT	-	145	-	1.4
	291EB+24	-	298EB+47	LT	-	1,260	2,260	12.0
	291EB+58	-	293EB+55	LT	-	10	-	0.1
	293EB+55	-	294EB+25	LT	-	85	-	0.9
	294EB+93	-	298EB+19	LT	-	45	-	0.5
	298EB+78	-	303EB+64	LT	-	800	1,430	8.0
	299EB+19	-	299EB+82	LT	-	10	-	0.1
	299EB+47	-	302EB+84	LT	-	25	-	0.2
	304EB+04	-	305EB+59	LT	-	445	790	4.5
	304EB+48	-	304EB+94	LT	-	5	-	0.1
	305EB+00	-	305EB+59	LT	-	2	-	0.1
	247A+05	-	248A+41	LT	0	32	56	0.5
	248A+41	-	249A+23	LT	8	45	-	0.2
	245NW+48	-	245NW+76	LT	-	3	-	0.1
	245NW+62	-	249NW+43	LT	-	900	1,170	9.0
	245NW+80	-	249NW+43	RT	15	-	-	0.1
	246NW+19	-	249NW+43	LT	30	-	-	0.3
	249NW+43	-	252NW+00	RT	20	-	-	0.2
	249NW+43	-	252NW+01	LT	20	-	-	0.2

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

BASE AGGREGATE DENSE ITEMS (CONT.)

STAGE	STATION			LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	313.0110 PIT RUN TON	624.0100 WATER MGAL
	245NE+96	-	246NE+71	RT	-	135	-	1.3
	246NE+07	-	249NE+36	RT	-	595	630	6.0
	247NE+31	-	249NE+36	RT	20	-	-	0.2
	249NE+36	-	253NE+62	RT	40	530	-	5.7
	12T+18	-	12T+61	LT	-	5	-	0.1
	12T+28	-	13T+29	LT	-	130	230	1.3
	12T+47	-	13T+29	LT	-	5	-	0.1
	12T+81	-	13T+29	RT	-	60	110	0.6
	UNDISTRIBUTED				15	365	490	3.6
SUBTOTAL					373	7,632	10,066	80
STAGE 1C	290EB+49	-	291EB+58	LT	-	220	395	2.2
	297EB+85	-	298EB+19	LT	-	5	-	0.1
	298EB+47	-	298EB+94	LT	-	75	140	1.0
	303EB+47	-	304EB+30	LT	-	150	260	1.5
	247A+03	-	247A+31	LT/RT	-	0	0	0.0
	247A+31		248A+41	LT/RT	0	0	-	0.0
	248A+41	-	249A+23	LT	0			0.0
	246NE+01	-	249NE+36	LT/RT	-	315	350	3.0
	246NE+09	-	249NE+36	LT	15	-	-	0.1
	12T+28	-	13T+29	LT	-	145	260	1.5
	12T+48	-	13T+29	LT	-	5	-	0.1
	UNDISTRIBUTED				5	55	85	0.5
SUBTOTAL					20	970	1,490	10
STAGE 2A	298EB+19	-	299EB+48	LT/RT	-	315	580	3.0
	298EB+78	-	299EB+11	LT	-	10	-	0.1
	299EB+27	-	299EB+50	RT	-	2	-	0.2
	237SE+16	-	244SE+72	LT	50	15	-	0.7
	237SE+16	-	243SE+85	RT	50	540	-	5.9
	242SE+25	-	244SE+52	RT	-	30	690	0.3
	UNDISTRIBUTED				5	45	65	0.5
SUBTOTAL					105	957	1,335	11
STAGE 2B	245+61	-	258+74	RT	70	-	-	0.7
	272+14	-	280+00	RT	50	-	-	0.5
	278+60	-	281EB+04	RT	-	225	440	2.2
	280+59	-	281EB+04	RT	-	75	-	0.7
	281EB+38	-	289EB+50	RT	-	1,250	2,280	12.5
	281EB+50	-	289EB+50	LT	-	35	-	0.4

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

BASE AGGREGATE DENSE ITEMS (CONT.)

STAGE	STATION			LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	313.0110 PIT RUN TON	624.0100 WATER MGAL
	281EB+58	-	289EB+50	RT	-	70	-	0.7
	290EB+60	-	294EB+00	RT	-	655	1,170	6.5
	290EB+99	-	293EB+90	LT	-	25	-	0.3
	291EB+30	-	294EB+00	RT	-	15	-	0.1
	294EB+40	-	298EB+40	LT/RT	-	665	1,190	6.6
	294EB+48	-	298EB+40	RT	-	40	-	0.4
	299EB+47	-	302EB+84	LT	-	30	-	0.3
	299EB+48	-	303EB+24	LT/RT	-	940	1,680	9.4
	299EB+50	-	302EB+86	RT	-	30	-	0.3
	302EB+72	-	303EB+24	RT	-	10	-	0.1
	303EB+90	-	305EB+59	RT	-	210	380	2.1
	304EB+74	-	305EB+59	LT	-	5	-	0.1
	244A+07	-	245A+26	RT	30	0	-	0.3
	245A+26	-	245A+80	RT	-	0	0	0.0
	10T+49	-	11T+31	RT	-	150	270	1.5
	11T+07	-	11T+40	RT	-	15	-	0.1
	UNDISTRIBUTED				5	230	385	2.3
SUBTOTAL					155	4,675	7,795	48
STAGE 2C	281EB+04	-	281EB+38	RT	-	150	170	1.5
	281EB+27	-	281EB+58	RT	-	4	-	0.1
	289EB+50	-	289EB+78	LT	-	7	-	0.1
	289EB+50	-	289EB+94	RT	-	3	-	0.1
	289EB+50	-	290EB+60	LT/RT	-	285	510	3.0
	293EB+90	-	294EB+40	RT	-	110	200	1.1
	302EB+85	-	303EB+09	LT	-	4	-	0.1
	302EB+85	-	303EB+99	LT/RT	-	185	330	1.9
	303EB+19	-	303EB+28	RT	-	2	-	-

BASE AGGREGATE DENSE ITEMS (CONT.)

STAGE	STATION			LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	313.0110 PIT RUN TON	624.0100 WATER MGAL
	244A+07	-	245A+26	LT	0	0	-	0.0
	245A+26	-	245A+80	LT	-	0	0	0.0
	237SW+71	-	244SW+34	RT	55	-	-	0.5
	237SW+71	-	244SW+57	LT	60	-	-	0.6
	243SW+16	-	244SW+71	LT	-	265	310	2.7
	244SE+79	-	245SE+12	RT	-	10	20	0.1
	244SE+82	-	245SE+09	RT	5	5	-	0.1
	10T+49	-	11T+12	LT	-	95	170	1.0
	UNDISTRIBUTED				5	70	110	0.7
SUBTOTAL					125	1,195	1,820	14
STAGE 3	290EB+48	-	290EB+72	LT	-	15	30	0.1
	293EB+55	-	294EB+26	LT	30	40	40	0.4
	298EB+78	-	299EB+48	LT	45	55	40	1.0
	304EB+34	-	310EB+02	RT	-	70	-	0.7
	309EB+75	-	310EB+52	LT	10	5	-	0.1
	247A+31	-	248A+41	LT	30	-	-	0.3
	247A+37	-	248A+41	LT	-	30	20	0.5
	245NE+96	-	246NE+71	RT	40	40	45	1.2
	8T+39	-	9T+40	LT	10	5	-	0.1
	11T+07	-	11T+40	RT	5	5	20	0.3
	13T+29	-	14T+68	LT	35	25	-	0.6
	UNDISTRIBUTED				10	15	10	0.3
SUBTOTAL					215	305	205	6
PARK & RIDE	0P+00	-	3P+40	LT	15	-	-	-
	0P+00	-	3P+40	RT	15	-	-	-
	1P+04	-	1P+16	LT	-	2	-	-
	UNDISTRIBUTED				5	1	-	68
SUBTOTAL					35	3	0	68
TOTAL					1,083	17,152	22,711	250

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UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

CONCRETE PAVEMENT ITEMS

STAGE	STATION			LOCATION	320.0145 CONCRETE BASE 8-INCH SY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.1080 CONCRETE PAVEMENT HES 8-INCH SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	416.1010 CONCRETE SURFACE DRAINS CY
PRESTAGE 1	307EB+49	-	307EB+59	LT	-	-	-	3	16	-
	8T+35	-	8T+45	RT	-	-	-	3	8	-
	15T+22	-	15T+32	LT	-	-	-	3	8	-
SUBTOTAL					0	0	0	9	32	0
PRESTAGE 2	307EB+49	-	307EB+59	LT	-	-	-	6	8	-
	8T+35	-	8T+45	RT	-	-	-	6	8	-
	15T+22	-	15T+32	LT	-	-	-	6	8	-
SUBTOTAL					0	0	0	18	24	0
STAGE 1B	280EB+00	-	290EB+50	LT	-	3,810	-	-	-	-
	291EB+24	-	298EB+47	LT	-	3,360	-	-	-	-
	298EB+78	-	303EB+64	LT	-	2,160	-	-	-	-
	304EB+04	-	305EB+59	LT	-	1,260	-	-	41	-
	246A+34	-	247A+31	LT	-	79	-	-	-	-
	245NW+62	-	249NW+43	LT	-	1,560	-	-	24	-
	246NE+07	-	249NE+36	RT	-	820	-	-	-	-
	249NE+36	-	253NE+53	RT	400	-	-	167	-	-
	12T+28	-	13T+29	LT	-	320	-	-	14	-
	12T+81	-	13T+29	RT	-	150	-	-	16	-
SUBTOTAL					400	13519	0	167	95	0
STAGE 1C	290EB+49	-	291EB+58	LT	-	-	670	13	38	-
	298EB+47	-	298EB+94	LT	-	-	235	9	53	-
	303EB+47	-	304EB+30	LT	-	-	465	15	61	-
	246A+34	-	247A+31	RT	-	-	126	10	-	-
	246NE+01	-	249NE+36	LT/RT	-	-	490	108	8	-
	12T+28	-	13T+29	LT	-	-	420	78	24	-
SUBTOTAL					0	0	2406	233	184	0
STAGE 2A	298EB+19	-	299EB+48	LT/RT	-	-	955	32	66	-
	242SE+25	-	244SE+52	RT	-	-	945	-	24	-
SUBTOTAL					0	0	1900	32	90	0

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

CONCRETE PAVEMENT ITEMS (CONT.)

STAGE	STATION			LOCATION	320.0145 CONCRETE BASE 8-INCH SY	415.0080 CONCRETE PAVEMENT 8-INCH SY	415.1080 CONCRETE PAVEMENT HES 8-INCH SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	416.1010 CONCRETE SURFACE DRAINS CY
STAGE 2B	280EB+00	-	281EB+04	RT	-	490	-	18	-	-
	281EB+38	-	289EB+50	RT	-	3,140	-	2	-	-
	290EB+60	-	294EB+00	RT	-	1,790	-	-	34	-
	294EB+40	-	298EB+40	LT/RT	-	1,730	-	-	-	-
	299EB+48	-	303EB+24	LT/RT	-	2,530	-	25	-	-
	303EB+90	-	305EB+59	RT	-	560	-	34	14	-
	245A+26	-	245A+80	RT	-	106	-	-	-	-
	10T+49	-	11T+31	RT	-	430	-	-	27	-
SUBTOTAL					0	10776	0	79	75	0
STAGE 2C	281EB+04	-	281EB+38	RT	-	-	235	21	60	-
	289EB+50	-	290EB+60	LT/RT	-	-	855	34	71	-
	293EB+90	-	294EB+40	RT	-	-	335	10	90	-
	302EB+85	-	303EB+99	LT/RT	-	-	555	65	85	-
	245A+26	-	245A+80	LT	-	-	208	12	-	1.33
	243SW+16	-	244SW+71	LT	-	-	355	-	10	-
	10T+49	-	11T+12	LT	-	-	250	36	25	-
SUBTOTAL					0	0	2793	178	341	1.33
STAGE 3	290EB+48	-	290EB+72	LT	-	-	50	-	64	-
	309EB+75	-	310EB+52	LT	-	-	-	65	-	-
	8T+39	-	9T+40	LT	-	-	-	80	-	-
	13T+29	-	14T+68	LT	-	-	-	110	-	-
SUBTOTAL					0	0	50	255	64	0
TOTAL					400	24,295	7,149	971	905	1.33

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

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HMA PAVEMENT ITEMS

STATION			LOCATION	455.0105 ASPHALTIC MATERIAL PG58-28 TONS	455.0605 TACK COAT GAL	460.1100 HMA PAVEMENT TYPE E-0.3 TONS	460.1103 HMA PAVEMENT TYPE E-3 TONS	460.4110.S REHEATING HMA PAVEMENT LONGITUDINAL JOINTS LF	465.0105 ASPHALTIC SURFACE TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON	465.0315 ASPHALTIC FLUMES SY
244+94	-	258+77	LT	13	62	241	-	-	-	-	-
245+77	-	258+63	RT	13	59	230	-	-	-	-	-
268+39	-	270+64	LT	2	10	39	-	-	-	-	-
270+64	-	276+58	MAIN	21	153	104	282	100	-	-	-
272+14	-	276+58	RT	4	20	77	-	-	-	-	-
276+58	-	280+00	MAINLINE	9	64	44	117	-	-	-	-
276WB+58	-	280WB+00	MAINLINE	8	57	60	93	-	-	-	-
237SW+71	-	243SW+16	SW RAMP	19	152	-	339	100	-	-	-
243SW+16	-	244SW+92	SW RAMP	1	7	25	-	-	-	-	-
245NW+54	-	249NW+43	NW RAMP	3	16	61	-	-	-	-	-
249NW+43	-	252NW+00	NW RAMP	13	106	-	237	100	-	-	-
237SE+16	-	242SE+25	SE RAMP	34	274	-	612	100	-	-	-
242SE+25	-	245SE+08	SE RAMP	2	10	36	-	-	-	-	13
245NE+95	-	249NE+36	NE RAMP	3	12	47	-	-	-	-	11
249NE+36	-	253NE+62	NE RAMP	18	145	-	323	100	-	-	-
0P+00	-	3P+36	PARK AND RIDE	-	103	-	-	-	230	-	-
280EB+00	-	310EB+00	STAGE 1A	-	147	-	-	-	-	409	-
280EB+00	-	310EB+00	STAGE 1B	-	45	-	-	-	-	125	-
247A+31	-	249A+23	STAGE 1B	8	50	-	139	-	-	-	-
247A+31	-	248A+41	STAGE 1C	3	20	-	54	-	-	-	-
281EB+04	-	281EB+49	STAGE 2A & 2B	1	12	-	27	-	-	-	-
244A+07	-	245A+26	STAGE 2B	5	34	-	95	-	-	-	-
280EB+59	-	281EB+04	STAGE 2C	1	12	-	26	-	-	-	-
244A+07	-	245A+26	STAGE 2C	8	52	-	144	-	-	-	-
TOTAL				190	1,622	964	2,489	500	230	534	24

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

REINFORCED CONCRETE PIPE ITEMS

STRUCTURE NUMBER FROM	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE %	522.0118 CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	522.0318 CULVERT PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	520.8000 CULVERT PIPE CONCRETE COLLAR EACH	PIPE JOINT TIES (NOTE 1) EACH
P41	P40	686.26	685.84	0.6	-	68	-	-	-	-	12
P1	P2	687.69	687.58	1.5	-	-	8	-	-	-	-
P2	EXISTING	687.58	687.42	2.0	-	-	8	-	-	1	-
EXISTING	P3	686.61	686.45	2.0	-	-	8	-	-	1	2
P43	P42	698.92	697.42	2.5	-	62	-	-	-	-	12
4	P4	699.30	699.14	2.0	-	-	8	-	-	1	-
EXISTING	P5	699.11	699.11	0.1	-	-	8	-	-	1	2
P9	P7	706.47	706.25	0.5	62	-	-	-	-	-	6
P8	P7	704.39	703.60	0.8	-	102	-	-	-	-	6
P7	P6	703.60	703.10	0.8	62	-	-	-	-	-	6
P45	P44	705.05	704.77	0.3	-	107	-	-	-	-	12
EXISTING	P48	EXISTING	704.77	-	-	24	-	-	-	1	6
P10	P11	706.10	705.98	1.1	-	-	12	-	-	-	-
P11	P13	705.98	705.31	1.0	-	-	67	-	-	-	6
P12	P11	706.65	705.98	0.8	-	-	87	-	-	-	-
P47	P46	707.32	707.13	0.4	-	53	-	-	-	-	12
P14	P15	707.17	707.05	0.5	-	-	25	-	-	-	-
P15	P16	707.05	706.93	1.4	-	-	51	-	-	-	-
P18	P16	706.47	706.35	0.5	-	22	-	-	-	-	6
P19	P16	706.99	706.35	0.8	-	78	-	-	-	-	6
P16	P17	706.35	705.71	0.5	129	-	-	-	-	-	6
P20	P21	705.39	705.34	0.6	-	-	9	-	-	-	-
P21	P22	704.17	703.88	0.5	-	-	-	-	60	-	-
P22	19	703.88	703.39	0.5	-	-	-	-	98	-	-
P39	P25	704.48	703.23	3.6	-	42	-	36	-	-	6
P25	P24	703.23	702.95	0.5	-	-	-	57	-	-	-
P26	P24	704.88	702.95	3.5	-	-	-	-	56	-	6
P31	P30	704.32	704.06	0.5	-	-	-	53	-	-	-
P30	25	704.06	703.83	0.6	-	-	-	41	-	-	-
P29	25	704.03	703.83	0.5	-	-	40	-	-	-	-
SUBTOTAL					253	558	331	187	214	5	112

NOTES: (1) PIPE JOINT TIES ARE NOT A PAY ITEM. FOR INFORMATION ONLY.
(2) ELEVATIONS MEASURED TO OUTSIDE OF PIPE. ADD THE FOLLOWING PIPE THICKNESSES FOR INSIDE DIAMETER ELEVATION:
12-INCH DIAMETER = 2-INCH PIPE THICKNESS
18-INCH DIAMETER = 2.5-INCH PIPE THICKNESS
24-INCH DIAMETER = 3-INCH PIPE THICKNESS

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

REINFORCED CONCRETE PIPE ITEMS (CONT.)

STRUCTURE NUMBER FROM	TO	INLET ELEVATION	DISCHARGE ELEVATION	SLOPE %	522.0118 CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	522.0318 CULVERT PIPE REINFORCED CONCRETE CLASS IV 18-INCH LF	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	520.8000 CULVERT PIPE CONCRETE COLLAR EACH	PIPE JOINT TIES (NOTE 1) EACH
P33	P35	701.91	701.62	0.5	-	-	58	-	-	1	-
P34	P35	701.64	701.62	0.5	-	-	5	-	-	-	-
P35	31A	701.62	700.95	3.9	-	-	18	-	-	-	-
P27	23	701.91	700.14	0.5	-	-	5	-	-	-	-
P36	P37	701.08	701.06	0.5	-	-	5	-	-	-	-
P37	EXISTING	701.08	EXISTING	1.6	-	-	8	-	-	1	-
33	35	700.75	700.52	0.7	-	-	34	-	-	-	-
EXISTING	P38	699.91	699.84	1.3	-	-	8	-	-	1	-
P38	42	699.84	699.44	1.5	-	-	28	-	-	-	-
SUBTOTAL					0	0	169	0	0	3	0
TOTAL					253	558	500	187	214	8	112

NOTES: (1) PIPE JOINT TIES ARE NOT A PAY ITEM. FOR INFORMATION ONLY.
(2) ELEVATIONS MEASURED TO OUTSIDE OF PIPE. ADD THE FOLLOWING PIPE THICKNESSES FOR INSIDE DIAMETER ELEVATION:
12-INCH DIAMETER = 2-INCH PIPE THICKNESS
18-INCH DIAMETER = 2.5-INCH PIPE THICKNESS
24-INCH DIAMETER = 3-INCH PIPE THICKNESS

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

STORM SEWER STRUCTURES

STRUCTURE NUMBER	STATION	OFFSET	RIM ELEVATION	FLOWLINE ELEVATION	DEPTH (FEET)	611.0530 MANHOLE COVERS TYPE J EACH	611.0612 INLET COVERS TYPE C EACH	611.0615 INLET COVERS TYPE F EACH	611.0624 INLET COVERS TYPE H EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.3253 INLETS 2.5X3-FT EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	NOTES
P1	281EB+52	0' LT	691.65	687.69	3.96	-	-	-	1	-	-	-	-	1	-	-	-
P2	281EB+52	9.70' LT	691.28	687.58	3.70	-	-	-	1	-	-	-	-	1	-	-	-
4	285EB+60	0' LT	702.29	699.50	2.79	-	-	-	1	-	-	-	-	-	-	-	-
P4	285EB+60	22.68' LT	702.29	699.14	3.15	-	-	-	1	-	-	-	-	1	-	-	-
P7	290EB+06	89.97' LT	711.28	703.60	7.68	1	-	-	-	1	-	-	-	-	-	-	-
P10	291EB+50	16.70' LT	709.71	706.10	3.61	-	-	-	1	-	-	-	-	1	-	-	-
P11	291EB+50	0.18' LT	710.27	705.98	4.29	-	-	-	1	-	-	-	-	1	-	-	-
P12	292EB+38	11.0' LT	710.38	706.65	3.73	-	-	-	1	-	-	-	-	1	-	-	-
P16	293EB+97	90.38' LT	710.64	706.35	4.29	1	-	-	-	-	1	-	-	-	-	-	-
P15	294EB+12	42.0' LT	710.34	707.05	3.29	-	-	-	1	-	-	-	-	1	-	-	-
P14	294EB+13	11.0' LT	710.50	707.17	3.33	-	-	-	1	-	-	-	-	1	-	-	-
P20	298EB+18	16.66' LT	708.34	705.36	2.98	-	-	-	1	-	-	-	-	1	-	-	-
P21	298EB+18	29.0' LT	708.06	704.17	3.89	-	-	-	1	-	-	-	-	1	-	-	-
P22	298EB+81	27.40' LT	708.20	703.88	4.32	-	-	-	1	-	-	-	-	1	-	-	-
25	299EB+66	70.14' LT	707.53	703.83	3.70	-	-	-	1	-	-	-	-	-	-	-	-
19	299EB+82	26.30' LT	707.72	703.39	4.33	1	-	-	-	-	-	1	-	-	-	-	-
P29	299EB+99	91.54' LT	707.12	704.03	3.09	-	-	-	1	-	-	-	-	1	-	-	-
P23	300EB+03	39.73' RT	707.32	702.85	4.47	-	-	-	1	-	-	-	1	-	-	-	CONSTRUCT OVER EXISTING STORM SEWER
20	300EB+08	56.40' RT	707.78	701.24	6.54	1	-	-	-	-	-	-	-	-	-	-	-
23	302EB+33	52.50' RT	706.32	699.14	7.18	1	-	-	-	-	-	-	-	-	-	-	ADD NEW FLAT TOP SLAB
P27	302EB+34	43.58' RT	705.95	701.91	4.04	-	-	-	1	-	-	-	-	1	-	-	-
24	302EB+91	70.17' RT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	ADD NEW FLAT TOP SLAB
P33	303EB+00	87.21' LT	705.24	701.91	3.33	-	-	-	1	-	-	-	-	1	-	-	-
P34	303EB+10	22.0' LT	705.61	701.64	3.97	-	-	-	1	-	-	-	-	1	-	-	-
P35	303EB+11	30.60' LT	705.68	701.62	4.06	-	-	-	1	-	-	-	-	1	-	-	-
33	303EB+33	46.32' RT	704.07	700.75	3.32	-	-	-	-	-	-	-	-	-	-	1	ADD NEW FLAT TOP SLAB
35	303EB+69	49.68' RT	704.68	700.52	4.16	-	1	-	-	-	-		-	-	-	-	-
31A	303EB+31	23.70' LT	711.43	700.95	10.48	-	-	-	-	-	-	-	-	-	-	1	-
P24	244SE+64	69.95' RT	707.74	702.95	4.79	1	-	-	-	1	-	-	-	-	-	-	-
P25	244SE+90	15.0' RT	708.48	703.23	5.25	-	-	1	-	-	-	-	-	-	1	-	-
SUBTOTAL						6	1	1	20	2	1	1	1	16	1	2	

NOTES: (1) INLETS MEASURED TO THE FLANGE LINE OF THE CURB & GUTTER
(2) DEPTH OF STRUCTURE IS RIM ELEVATION MINUS THE DEPTH OF FRAM AND RINGS, MINUS THE INVERT ELEVATION.
THE DEPTH OF FRAME AND RINGS IS:
MANHOLE COVERS TYPE J = 1.07 FT
INLET COVERS TYPE C = 1.07 FT
INLET COVERS TYPE F = 0.79 FT
INLET COVERS TYPE H = 0.83 FT

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

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STORM SEWER STRUCTURES (CONT.)

STRUCTURE NUMBER	STATION	OFFSET	RIM ELEVATION	FLOWLINE ELEVATION	DEPTH (FEET)	611.0530 MANHOLE COVERS TYPE J EACH	611.0612 INLET COVERS TYPE C EACH	611.0615 INLET COVERS TYPE F EACH	611.0624 INLET COVERS TYPE H EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2X3-FT EACH	611.3253 INLETS 2.5X3-FT EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	NOTES
P30	246NE+19	63.0' RT	707.73	704.06	3.67	-	-	1	-	-	-	-	-	-	1	-	-
P31	246NE+37	12.0' RT	707.65	704.32	3.33	-	-	-	1	-	-	-	-	1	-	-	-
P36	10T+16	63.30' LT	704.35	701.08	3.27	-	-	-	1	-	-	-	-	1	-	-	-
P37	10T+23	64.95' LT	704.33	701.06	3.27	-	-	-	1	-	-	-	-	1	-	-	-
39	10T+61	30.88' LT	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
40	10T+62	7.71' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
42	10T+64	40.08' RT	705.18	699.44	5.74	-	-	-	-	-	-	-	-	-	-	1	-
P38	10T+93	40.37' RT	704.57	699.84	4.73	-	-	-	1	-	-	-	-	1	-	-	-
SUBTOTAL						0	0	1	5	0	0	0	0	4	1	2	
TOTAL						6	1	2	25	2	1	1	1	20	2	4	

NOTES: (1) INLETS MEASURED TO THE FLANGE LINE OF THE CURB & GUTTER

(2) DEPTH OF STRUCTURE IS RIM ELEVATION MINUS THE DEPTH OF FRAM AND RINGS, MINUS THE INVERT ELEVATION.
THE DEPTH OF FRAME AND RINGS IS:
MANHOLE COVERS TYPE J = 1.07 FT
INLET COVERS TYPE C = 1.07 FT
INLET COVERS TYPE F = 0.79 FT
INLET COVERS TYPE H = 0.83 FT

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

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APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE

STRUCTURE NUMBER	STATION	OFFSET	PIPE ELEVATION	522.1012 12-INCH EACH	522.1018 18-INCH EACH	633.5200 MARKERS CULVERT END EACH
P40	280EB+76	63.59' RT	685.84	-	1	1
P41	281EB+42	71.65' RT	686.26	-	1	1
P3	281EB+50	73.88' LT	686.45	1	-	1
P42	284EB+84	69.67' LT	697.42	-	1	1
P43	285EB+33	70.80' LT	698.92	-	1	1
P5	285EB+60	64.92' LT	699.11	1	-	1
P6	289EB+43	95.09' LT	703.10	-	1	1
P44	289EB+94	72.37' RT	704.77	-	1	1
P45	291EB+02	72.44' RT	705.05	-	1	1
P8	291EB+09	99.27' LT	704.39	-	1	1
P13	291EB+50	66.60' RT	705.31	1	-	1
P17	292EB+66	93.11' LT	705.71	-	1	1
P9	247A+41	51.14' LT	706.47	-	1	1
P48	245A+33	74.42' LT	704.77	-	1	1
P46	244SW+62	39.18' LT	707.13	-	1	1
P47	244SW+62	13.62' RT	707.32	-	1	1
P18	245NW+83	63.97' LT	706.08	-	1	1
P19	245NW+81	9.98' RT	706.99	-	1	1
P26	244SE+06	57.93' RT	704.88	-	1	1
P39	244SE+73	19.73' LT	704.48	-	1	1
TOTAL				3	17	20

NOTES: (1) ELEVATIONS MEASURED TO OUTSIDE OF PIPE. ADD THE FOLLOWING PIPE THICKNESSES FOR INSIDE DIAMETER ELEVATIONS:

12-INCH DIAMETER = 2-INCH PIPE THICKNESS
18-INCH DIAMETER = 2.5-INCH PIPE THICKNESS
24-INCH DIAMETER = 3-INCH PIPE THICKNESS

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

CONCRETE CURB

STATION		STATION	LOCATION	601.0105 CURB TYPE A LF	601.0405 CURB AND GUTTER 18-INCH TYPE A LF	601.0409 CURB AND GUTTER 30-INCH TYPE A LF
280EB+00	-	280EB+57	MEDIAN	-	-	115
280EB+00	-	280EB+84	RT	-	-	105
281EB+24	-	289EB+95	RT	-	-	895
281EB+43	-	289EB+83	MEDIAN	-	-	1685
289EB+36		290EB+12	LT	-	-	80
291EB+00		293EB+97	RT	-	-	300
291EB+03	-	294EB+08	LT	-	-	310
291EB+25	-	294EB+23	MEDIAN	-	-	625
294EB+51	-	298EB+46	RT	-	-	400
294EB+68	-	298EB+52	LT	-	-	385
294EB+88	-	298EB+24	MEDIAN	-	-	680
298EB+81	-	303EB+14	MEDIAN	-	-	895
299EB+21	-	302EB+86	RT	-	-	375
299EB+29	-	303EB+03	LT	-	-	390
302EB+72	-	303EB+28	RT ISLAND	-	-	135
304EB+42	-	305EB+59	RT	-	-	110
304EB+50	-	304EB+95	LT ISLAND	-	-	105
304EB+66	-	305EB+59	LT	-	-	105
304EB+69	-	305EB+59	MEDIAN	-	-	180
309EB+75	-	310EB+53	MEDIAN	-	-	160
309EB+83	-	310EB+02	RT	37	-	-
244A+07	-	245A+63	LT	-	-	170
245A+26	-	245A+63	RT	-	-	40
247A+01	-	247A+20	RT	-	-	25
247A+03	-	247A+31	LT	-	-	30
244SW+58	-	244SW+85	LT	-	-	30
244SW+70	-	244SW+82	RT	-	-	15
245NW+62	-	246NW+08	LT	-	-	50
245NW+48	-	245NW+77	MEDIAN	-	-	65
245NW+62	-	245NW+70	RT	-	-	10
244SE+83	-	245SE+01	LT	-	-	20
244SE+81	-	245SE+08	MEDIAN	-	-	80
243SE+99	-	244SE+74	RT	-	-	80
245NE+94	-	246NE+01	LT	-	-	10
245NE+98	-	246NE+69	MEDIAN	-	-	300
246NE+59	-	247NE+20	RT	-	-	70
TOTAL				37	0	9030

CONCRETE CURB (CONT.)

STATION		STATION	LOCATION	601.0105 CURB TYPE A LF	601.0405 CURB AND GUTTER 18-INCH TYPE A LF	601.0409 CURB AND GUTTER 30-INCH TYPE A LF
8T+39	-	9T+40	MEDIAN	-	200	-
9T+84	-	10T+61	LT	-	-	85
10T+49	-	11T+00	MEDIAN	-	100	-
10T+49	-	11T+41	RT	-	-	100
11T+09	-	11T+36	RT ISLAND	-	-	70
12T+19	-	12T+62	LT ISLAND	-	-	100
12T+26	-	13T+28	LT	-	-	110
12T+43	-	14T+68	MEDIAN	-	450	-
12T+79	-	13T+29	RT	-	-	55
SUBTOTAL				0	750	520
TOTAL				37	750	9550

CONCRETE CURB (CONT.)

STATION		STATION	LOCATION	601.0411 CURB AND GUTTER 30-INCH TYPE D LF	
280EB+46	-	208EB+86	RT	60	DEER TRACE ENTRANCE
281EB+22	-	281EB+58	RT	60	DEER TRACE ENTRANCE
244A+06	-	245A+25	LT	119	CTH A
TOTAL				239	

SLOPE PAVING ITEMS

STRUCTURE	LOCATION	604.0400 CONCRETE SY	604.0600 SELECT CRUSHED MATERIAL SY
B-59-53	NORTH	71	-
B-59-53	SOUTH	71	-
B-59-28	NORTH	70	78
B-59-28	SOUTH	69	122
TOTAL		281	200

FENCE WOVEN WIRE (4.5-FEET)

STATION		STATION	LOCATION	616.0100 LF
248NE+81	-	253NE+02	RT	430
TOTAL				430

CONCRETE MEDIAN SLOPED NOSE

STATION	LOCATION	620.0300 SF
280EB+53	LT	62
281EB+48	LT	58
289EB+82	LT	70
291EB+28	LT	62
294EB+90	LT	62
298EB+22	LT	63
303EB+12	LT	53
304EB+71	LT	46
10T+94	LT	22
12T+45	LT	32
TOTAL		530

RIPRAP

STATION	LOCATION	606.0100 RIPRAP LIGHT CY	645.0130 GEOTEXTILE FABRIC TYPE R SY
289EB+88	71' RT	4.9	14.7
292EB+39	95' LT	1.9	5.6
246NE+23	22' LT	1.6	4.7
244SE+57	24' LT	2.0	6.0
TOTAL		10.3	31

MOBILIZATION

PROJECT	619.1000 EACH
PROJECT 4640-05-71	1
TOTAL	1

DUST CONTROL

PROJECT	623.0200 DUST CONTROL SURFACE TREATMENT SY
PROJECT 4640-05-71	42,540

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

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SIDEWALK ITEMS

STATION			LOCATION	601.0600 PEDESTRIAN CURB LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	SPV.0035.10 COLORING CONCRETE BUTTERFIELD U317 TERRA COTTA UNIMIX (CY)	SPV.0165.01 STAMPED CONCRETE SIDEWALK (5-INCH) SF
280EB+00	-	280EB+50	MEDIAN	-	-	-		650
281EB+50	-	289EB+78	MEDIAN	-	-	-		10450
281EB+33	-	289EB+94	RT	-	4455	16		-
281EB+35	-	281EB+46	RT	18	-	-		-
290EB+99	-	294EB+04	RT	-	1500	16		-
291EB+30	-	294EB+23	MEDIAN	-	-	-		2490
294EB+48	-	298EB+48	RT	-	2150	16		-
294EB+93	-	298EB+19	MEDIAN	-	-	-		5340
296EB+22	-	297EB+64	LT	-	855	-		-
298EB+80	-	303EB+09	MEDIAN	-	-	-		5140
299EB+27	-	302EB+86	RT	-	1835	16		-
302EB+72	-	303EB+29	RT ISLAND	-	-	-		340
303EB+10	-	303EB+28	RT ISLAND	-	85	16		-
303EB+15	-	303EB+26	RT ISLAND	-	-	-		70
303EB+34	-	310EB+02	RT	-	4000	18		-
304EB+50		304EB+95	LT ISLAND	-	-	-		275
304EB+74		305EB+59	MEDIAN	-	-	-		345
309EB+75		310EB+53	MEDIAN	-	-	-		270
309EB+84	-	310EB+02	RT MAIN	19	-	-		-
309EB+93	-	309EB+99	RT FRONTAGE RD	-	40	8		-
245NW+48	-	245NW+77	LT	-	-	-		135
244SE+82	-	244SE+98	RT	-	-	-		100
244SE+98	-	245SE+05	RT	-	60	16		-
245SE+05	-	245SE+10	RT	-	-	-		85
245NE+98	-	246NE+69	RT	-	-	-		2220
8T+39		9T+40	LT MEDIAN	-	-	-		430
10T+49		10T+95	LT MEDIAN	-	-	-		170
11T+10		11T+28	RT ISLAND	-	-	-		75
11T+32		11T+38	RT ISLAND	-	-	-		40
11T+26	-	11T+33	RT ISLAND	-	35	16		-
12T+19	-	12T+62	LT ISLAND	-	-	-		265
12T+48		14T+68	MEDIAN	-	-	-		2010
1P+04		1P+15	PARK AND RIDE LT	-	100	-		-
CATEGORY 0010							66	4290
CATEGORY 0030							411	26610
TOTALS				37	15115	138	477	30900

SILT FENCE

STATION			LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
262EB+34	-	262EB+77	RT	50	50
262EB+55	-	262EB+82	LT	50	50
263EB+17	-	263EB+51	LT	50	50
263EB+21	-	263EB+71	RT	50	50
277EB+53	-	281EB+38	LT	402	402
281EB+62	-	284EB+77	LT	315	315
249NE+36	-	253NE+54	RT	428	428
UNDISTRIBUTED				335	335
TOTAL				1,680	1,680

MOBILIZATIONS EROSION CONTROL

PROJECT	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
PROJECT 4640-05-71	21	6
TOTAL	21	6

ROCK BAGS

STATION	LOCATION	628.7570 EACH	COMMENTS
278EB+00	RT	5	
281EB+51	LT	5	
289EB+94	RT	3	
298EB+35	RT	3	EXISTING PIPE
298EB+53	LT	3	EXISTING PIPE
TOTAL		19	

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

LANDSCAPING ITEMS

STATION			LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2004 EROSION MAT CLASS I TYPE B SY	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.2023 EROSION MAT CLASS II TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB
262EB+34	-	262EB+77	RT	214	-	-	-	214	-	0.13	0.64	-	-
262EB+55	-	262EB+82	LT	173	-	-	-	173	-	0.11	0.52	-	-
263EB+17	-	263EB+51	LT	146	-	-	-	146	-	0.09	0.44	-	-
263EB+21	-	263EB+71	RT	184	-	-	-	184	-	0.12	0.55	-	-
278EB+60	-	280EB+84	RT	914	732	183	109	-	-	0.18	1.26	1.67	1.05
280EB+02	-	290EB+12	LT	4318	3869	450	83	-	-	1.87	4.45	7.50	4.43
281EB+25	-	289EB+94	RT	2954	2504	450	496	-	-	2.17	4.03	2.23	9.48
291EB+01	-	293EB+97	RT	1622	1322	299	334	-	-	1.23	3.10	1.50	2.78
291EB+03	-	294EB+05	LT	1205	765	130	334	-	-	0.07	1.48	2.23	3.20
294EB+52	-	298EB+46	RT	605	203	-	223	-	-	0.06	0.53	0.77	0.05
294EB+68	-	298EB+57	LT	345	67	-	325	-	-	0.16	-	1.01	0.31
299EB+22	-	302EB+85	RT	782	342	-	235	-	-	0.36	0.56	1.88	1.55
300EB+00	-	303EB+10	LT	223	26	-	342	-	-	0.14	-	1.00	-
304EB+34	-	305EB+59	RT	276	33	-	132	-	-	0.02	-	0.73	-
304EB+72	-	305EB+59	LT	145	37	-	115	-	-	0.09	-	0.65	-
305EB+59		310EB+04	RT	664	-	-	289	-	-	-	-	1.30	-
244A+06	-	245A+63	LT	316	134	-	194	-	-	0.20	-	1.09	0.33
244A+07	-	245A+62	RT	296	160	136	42	-	-	0.19	-	-	1.34
247A+02	-	248A+41	RT	309	176	133	22	-	-	0.13	-	1.15	0.20
247A+03	-	248A+41	LT	243	148	93	35	-	-	0.15	-	0.87	0.22
243SW+16	-	244SW+82	RT	509	509	-	-	-	-	0.26	0.74	-	-
243SW+16	-	244SW+85	LT	438	288	150	-	-	-	0.27	1.20	1.17	-
245NW+60	-	249NW+43	RT	554	443	111	-	-	167	0.43	0.32	2.57	-
245NW+62	-	249NW+43	LT	1670	1332	338	55	-	-	0.95	3.22	2.89	4.84
242SE+25	-	245SE+01	LT	691	524	167	-	-	-	-	0.68	2.00	-
242SE+25	-	244SE+73	RT	492	339	153	98	-	-	0.35	-	2.50	-
245NE+96	-	249NE+36	LT	739	402	337	-	-	-	0.12	-	3.06	-
246NE+24	-	253NE+53	RT	2654	2133	521	160	-	169	1.73	4.39	5.86	-
9T+83	-	10T+61	LT	74	-	-	88	-	-	0.05	-	0.33	-
10T+49		11T+41	RT	70	-	-	84	-	-	0.04	-	0.30	-
12T+25	-	13T+28	LT	138	30	-	110	-	-	0.09	-	0.62	-
12T+80	-	13T+29	RT	64	14	-	49	-	-	0.04	-	0.29	-
UNDISTRIBUTED				6007	4133	913	988	179	84	3	7	12	7
TOTAL				30035	16531	3651	3954	718	336	12	28	47	30

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

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ERECTION OF TYPE I SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II FOLDING REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	641.8100 OVERHEAD SIGN SUPPORT LS (STR)	REMARKS
1	PRANGE RD	R1-1	30" X 30"	5.18	---	---	---	1	---	---	---	
2	"	R1-1	30" X 30"	5.18	---	---	---	1	---	---	---	
3	VACANT	---	---	---	---	---	---	---	---	---	---	
4	STH 28, E. OF PRANGE RD	I3-1	42" X 24"	7.00	---	---	1	---	---	---	---	WEEDEN CREEK, SEE SIGN DETAIL SHEET
5	"	I3-1	42" X 24"	7.00	---	---	1	---	---	---	---	WEEDEN CREEK, SEE SIGN DETAIL SHEET
6	"	W14-3	48" X 36"	---	---	6.00	---	1	---	---	---	
7	"	W3-5	36" X 36"	---	---	9.00	---	1	---	---	---	35 MPH
8	"	W6-1	36" X 36"	---	---	9.00	---	1	---	---	---	
9	"	W6-3	36" X 36"	---	---	9.00	---	1	---	---	---	
10	"	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	35 MPH
11	"	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	55 MPH
12	"	R4-7	36" X 48"	12.00	---	---	---	---	1	---	---	
13	"	R5-1	36" X 36"	9.00	---	---	---	1	---	---	---	
14	"	R5-1A	42" X 30"	8.75	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #15
15	"	W6-2	36" X 36"	---	---	9.00	---	1	---	---	---	
16	"	R5-1	30" X 30"	6.25	---	---	---	1	---	---	---	
17	"	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	
18	STH 28, W. OF CTH A	R6-2L	24" X 30"	5.00	---	---	---	1	---	---	---	
19	VACANT	---	---	---	---	---	---	---	---	---	---	
20	STH 28, W. OF CTH A	R5-1	30" X 30"	6.25	---	---	---	1	---	---	---	
21	"	W4-2L	36" X 36"	---	---	9.00	---	1	---	---	---	
22	"	W3-3	36" X 36"	---	---	9.00	---	1	---	---	---	
23	"	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	35 MPH
24	"	R5-1A	36" X 24"	6.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #25
25	"	D2-3	108" X 36"	27.00	---	---	---	3	---	---	---	SHEBOYGAN FALLS 2, WALDO 10, KEWASKUM 31, SEE SIGN DETAIL SHEET
26	"	J1-2	48" X 39"	13.00	---	---	---	1	---	---	---	JCT I-43, JCT CTH A
27	"	W9-1L	36" X 36"	---	---	9.00	---	1	---	---	---	
28	"	W9-1L	36" X 36"	---	---	9.00	---	1	---	---	---	
29	"	D1-1	54" X 15"	5.63	---	---	1	---	---	---	---	KOHLER, SEE SIGN DETAIL SHEET
30	"	D4-5	36" X 48"	12.00	---	---	---	---	1	---	---	
31	"	R2-1	24" X 30"	5.00	---	---	---	1	---	---	---	35 MPH
32	"	R3-8V	72" X 30"	15.00	---	---	---	2	---	---	---	
33	"	R3-8V	72" X 30"	15.00	---	---	---	2	---	---	---	
34	"	R5-1A	36" X 24"	6.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #33
35	"	J4-1	24" X 36"	6.00	---	---	---	1	---	---	---	WEST STH 28
36	"	R10-50	30" X 36"	7.50	---	---	---	---	---	---	---	TO BE MOUNTED ON MONOTUBE SIGNAL ARM NEXT TO FLASHING YELLOW HEAD
37	"	R1-1F	36" X 36"	---	7.46	---	---	1	---	---	---	
38	"	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #37
	PAGE SUBTOTALS			214.74	7.46	78.00	3	30	2	0	0	

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

3

ERECTION OF TYPE I SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II FOLDING REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	641.8100 OVERHEAD SIGN SUPPORT LS (STR)	REMARKS
39	STH 28, W. OF CTH A	J13-1	24" X 45"	7.50	---	---	---	---	1	---	---	CTH A, SEE PLAN SHEET
40	"	R5-1	30" X 30"	6.25	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #39
41	"	R10-50	30" X 36"	7.50	---	---	---	---	---	---	---	TO BE MOUNTED ON MONOTUBE SIGNAL ARM NEXT TO FLASHING YELLOW HEAD
42	"	R10-50	30" X 36"	7.50	---	---	---	---	---	---	---	TO BE MOUNTED ON MONOTUBE SIGNAL ARM NEXT TO FLASHING YELLOW HEAD
43	CTH A, AT STH 28	R6-2L	24" X 30"	5.00	---	---	---	1	---	---	---	
44	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #43
45	"	R1-1F	30" X 30"	---	5.18	---	---	1	---	---	---	
46	"	R1-1F	30" X 30"	---	5.18	---	---	---	---	---	---	
47	"	R6-2R	24" X 30"	5.00	---	---	---	1	---	---	---	
48	"	R6-2L	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #47
49	STH 28, E. OF CTH A	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	
50	"	R5-1	30" X 30"	6.25	---	---	---	---	1	---	---	
51	"	J13-1	24" X 45"	7.50	---	---	---	---	---	---	---	CTH A, MOUNT ON BACK OF SIGN #50, SEE PLAN SHEET
52	"	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #49
53	"	R10-50	30" X 36"	7.50	---	---	---	---	---	---	---	TO BE MOUNTED ON MONOTUBE SIGNAL ARM NEXT TO FLASHING YELLOW HEAD
54	"	D4-5	36" X 48"	12.00	---	---	---	---	1	---	---	
55	"	D1-72	120" X 60"	50.00	---	---	---	---	---	3	---	SEE SIGN DETAIL SHEET
56	"	D1-1	54" X 15"	5.63	---	---	1	---	---	---	---	KOHLER, SEE SIGN DETAIL SHEET
57	STH 28, W. OF WEST RAMP TERMINI	R3-7R	30" X 30"	6.25	---	---	---	1	---	---	---	
58	"	R3-2	30" X 30"	6.25	---	---	---	1	---	---	---	
59	"	R3-8Y	30" X 36"	7.50	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #58
60	"	R1-1F	36" X 36"	---	7.46	---	---	1	---	---	---	
61	"	R1-1F	36" X 36"	---	7.46	---	---	1	---	---	---	
62	"	J3-1	24" X 57"	9.50	---	---	---	---	1	---	---	SOUTH I-43, SEE PLAN SHEET
63	I-43 SB OFF RAMP TO STH 28, AT INTERSECTION	R5-1	36" X 36"	9.00	---	---	---	1	---	---	---	
64	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #63
65	"	D4-5	36" X 48"	12.00	---	---	---	---	1	---	---	
66	"	R1-2	36" X 31"	3.88	---	---	---	1	---	---	---	
67	"	W12-1D	24" X 24"	---	---	4.00	1	---	---	---	---	
68	I-43 SB OFF RAMP TO STH 28	R5-1A	36" X 24"	6.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #69
69	"	J3-2	48" X 57"	19.00	---	---	---	---	1	---	---	
70	"	R5-1A	36" X 24"	6.00	---	---	---	1	---	---	---	
71	"	D1-3	102" X 36"	25.50	---	---	---	2	---	---	---	SHEBOYGAN, KOHLER, SHEBOYGAN FALLS, SEE SIGN DETAIL SHEET
72	"	R3-8P	54" X 30"	11.25	---	---	---	2	---	---	---	
73	"	R3-8P	54" X 30"	11.25	---	---	---	2	---	---	---	
74	I-43 SB OFF RAMP TO STH 28, AT INTERSECTION	R5-1	30" X 30"	6.25	---	---	---	1	---	---	---	
75	STH 28, BETWEEN RAMP TERMINI	R1-1F	36" X 36"	---	7.46	---	---	1	---	---	---	
76	"	R5-1	30" X 30"	6.25	---	---	---	1	---	---	---	
77	"	R3-1	30" X 30"	6.25	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #76
78	"	R10-50	30" X 36"	7.50	---	---	---	---	---	---	---	TO BE MOUNTED ON MONOTUBE SIGNAL ARM NEXT TO FLASHING YELLOW HEAD
	PAGE SUBTOTALS			307.26	40.20	4.00	2	20	6	3	0	

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ERECTION OF TYPE I SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II FOLDING REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	641.8100 OVERHEAD SIGN SUPPORT LS (STR)	REMARKS
79	STH 28, BETWEEN RAMP TERMINI	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	
80	"	R11-54F	48" X 30"	---	10.00	---	1	---	---	---	---	
81	"	D1-71	---	---	---	---	---	---	---	---	---	SEE TYPE I MISC QUANTITIES
82	"	D1-70	---	---	---	---	---	---	---	---	---	SEE TYPE I MISC QUANTITIES
83	STH 28 ON RAMP TO I-43 SB	R5-57	36" X 36"	9.00	---	---	---	1	---	---	---	
84	STH 28, BETWEEN RAMP TERMINI	R3-5L	42" X 48"	14.00	---	---	---	---	---	---	---	TO BE MOUNTED TO B-59-53 ON SIDE OF PARAPET USING A36 STEEL AS SHOWN IN CONSTRUCTION DETAIL, CENTERED OVER LANE
85	"	R5-1A	36" X 24"	6.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #86
86	"	J1-1	24" X 39"	6.50	---	---	---	1	---	---	---	JCT CTH A
87	VACANT	---	---	---	---	---	---	---	---	---	---	
88	STH 28, BETWEEN RAMP TERMINI	R5-1A	36" X 24"	6.00	---	---	---	1	---	---	---	MOUNT ON BACK OF SIGN #87
89	"	R3-5L	42" X 48"	14.00	---	---	---	---	---	---	---	TO BE MOUNTED TO B-59-28 ON SIDE OF PARAPET USING A36 STEEL AS SHOWN IN CONSTRUCTION DETAIL, CENTERED OVER LANE
90	"	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	
91	"	R10-50	30" X 36"	7.50	---	---	---	---	---	---	---	TO BE MOUNTED ON MONOTUBE SIGNAL ARM NEXT TO FLASHING YELLOW HEAD
92	"	R3-1	30" X 30"	6.25	---	---	---	1	---	---	---	
93	"	R5-1	30" X 30"	6.25	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #92
94	"	R5-1	30" X 30"	6.25	---	---	---	1	---	---	---	
95	I-43 NB OFF RAMP TO STH 28, AT INTERSECTION	R5-1	30" X 30"	6.25	---	---	---	1	---	---	---	
96	STH 28, E. OF RAMP TERMINI	J3-1	24" X 57"	9.50	---	---	---	---	1	---	---	NORTH I-43, SEE PLAN SHEET
97	I-43 NB OFF RAMP TO STH 28, AT INTERSECTION	R1-1F	30" X 30"	---	5.18	---	---	1	---	---	---	
98	"	W12-1D	24" X 24"	---	---	4.00	1	---	---	---	---	
99	"	R10-11F	30" X 36"	7.50	---	---	---	---	1	---	---	
99A	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #99
100	I-43 NB OFF RAMP TO STH 28	R5-1A	36" X 24"	6.00	---	---	---	---	1	---	---	
101	"	R5-1A	36" X 24"	6.00	---	---	---	---	---	---	---	MOUNT TO BACK OF SIGN #103
102	"	J3-2	48" X 57"	19.00	---	---	---	---	---	---	---	TO CTH A, WEST STH 28, SEE PLAN SHEET, MOUNT TO BACK OF SIGN #100
103	"	D1-3	102" X 36"	25.50	---	---	---	3	---	---	---	KOHLER, SHEBOYGAN FALLS, SHEBOYGAN, SEE SIGN DETAIL SHEET
104	"	SP	54" X 30"	11.25	---	---	---	---	---	---	---	BAND TO VERTICAL COLUMN OF S-59-19
105	"	D15-1	48" X 90"	30.00	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-19 CENTERED OVER LEFT LANE USING W5X3.7 ALUMINUM I-BEAMS
106	"	E6-54R	---	---	---	---	---	---	---	---	---	SEE TYPE I MISC QUANTITIES
107	"	E6-54R	---	---	---	---	---	---	---	---	---	SEE TYPE I MISC QUANTITIES
108	"	SP	54" X 30"	11.25	---	---	---	---	---	---	---	BAND TO VERTICAL COLUMN OF S-59-19
109	STH 28, E. OF RAMP TERMINI	R1-1F	36" X 36"	---	7.46	---	---	1	---	---	---	
110	"	R10-11F	30" X 36"	7.50	---	---	---	---	1	---	---	
110A	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #110
111	"	R1-1F	36" X 36"	---	7.46	---	---	1	---	---	---	
112	STH 28 ON RAMP TO I-43 NB	R5-57	36" X 36"	9.00	---	---	---	1	---	---	---	
113	STH 28, E. OF RAMP TERMINI	D1-70	---	---	---	---	---	---	---	---	---	SEE TYPE I MISC QUANTITIES
114	"	D1-71	---	---	---	---	---	---	---	---	---	SEE TYPE I MISC QUANTITIES
115	"	R3-2	30" X 30"	6.25	---	---	---	1	---	---	---	
116	"	W12-1D	24" X 24"	4.00	---	---	1	---	---	---	---	
117	"	D1-1	96" X 15"	10.00	---	---	2	---	---	---	---	UW SHEBOYGAN, SEE SIGN DETAIL SHEET
118	"	D15-1	48" X 78"	26.00	---	---	---	---	---	---	1 (S-59-20)	STA 300+59'EB', TO BE MOUNTED TO S-59-20 CENTERED OVER LEFT LANE USING W5X3.7 ALUMINUM I-BEAMS
	PAGE SUBTOTALS			296.75	30.10	4.00	5	16	4	0	1	

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

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ERECTION OF TYPE I SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II FOLDING REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	641.8100 OVERHEAD SIGN SUPPORT LS (STR)	REMARKS
119	STH 28, E. OF RAMP TERMINI	D15-1	48" X 78"	26.00	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-20 CENTERED OVER LEFT LANE USING W5X3.7 ALUMINUM I-BEAMS
120	"	D15-1	48" X 90"	30.00	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-20 CENTERED OVER STRAIGHT THRU LANE USING W5X3.7 ALUMINUM I-BEAMS
121	"	D15-1	48" X 90"	30.00	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-20 CENTERED OVER STRAIGHT THRU LANE USING W5X3.7 ALUMINUM I-BEAMS
122	"	D15-1	48" X 78"	26.00	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-20 CENTERED OVER RIGHT LANE USING W5X3.7 ALUMINUM I-BEAMS
123	"	R11-54F	48" X 30"	---	10.00	---	1	---	---	---	---	
124	"	R3-7R	30" X 30"	6.25	---	---	---	1	---	---	---	
125	"	R3-7R	30" X 30"	6.25	---	---	---	1	---	---	---	
126	"	R10-50	30" X 36"	7.50	---	---	---	---	---	---	---	TO BE MOUNTED ON MONOTUBE SIGNAL ARM NEXT TO FLASHING YELLOW HEAD
127	"	J1-1	24" X 39"	6.50	---	---	---	1	---	---	---	JCT I-43
128	STH 28, AT TAYLOR DR INTERSECTION	R1-1F	36" X 36"	---	7.46	---	---	1	---	---	---	
129	"	W12-1D	24" X 24"	---	---	4.00	1	---	---	---	---	
130	"	R1-2	36" X 31"	3.88	---	---	---	1	---	---	---	
131	"	R10-50	30" X 36"	7.50	---	---	---	---	---	---	---	TO BE MOUNTED ON MONOTUBE SIGNAL ARM NEXT TO FLASHING YELLOW HEAD
132	"	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #128
133	TAYLOR DRIVE, AT STH 28 INTERSECTION	R5-1	30" X 30"	6.25	---	---	---	1	---	---	---	
134	"	R5-1	30" X 30"	6.25	---	---	---	1	---	---	---	
135	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #134
136	"	W12-1D	24" X 24"	---	---	4.00	1	---	---	---	---	
137	TAYLOR DRIVE, N. OF STH 28	D15-1	48" X 90"	30.00	---	---	---	---	---	---	1 (S-59-24)	STA 14+83'T', TO BE MOUNTED TO S-59-24 CENTERED OVER RIGHT LANE USING W5X3.7 ALUMINUM I-BEAMS
138	"	D15-2	90" X 90"	56.25	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-24 CENTERED OVER SECOND RIGHT LANE USING W5X3.7 ALUMINUM I-BEAMS
139	"	D15-1	48" X 78"	26.00	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-24 CENTERED OVER STRAIGHT THRU LANE USING W5X3.7 ALUMINUM I-BEAMS
140	"	D15-1	48" X 78"	26.00	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-24 CENTERED OVER STRAIGHT THRU LANE USING W5X3.7 ALUMINUM I-BEAMS
141	"	D15-1	48" X 90"	30.00	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-24 CENTERED OVER LEFT LANE USING W5X3.7 ALUMINUM I-BEAMS
142	TAYLOR DRIVE, AT STH 28 INTERSECTION	R1-1F	36" X 36"	---	7.46	---	---	1	---	---	---	
143	"	R10-50	30" X 36"	7.50	---	---	---	---	---	---	---	TO BE MOUNTED ON MONOTUBE SIGNAL ARM NEXT TO FLASHING YELLOW HEAD
144	"	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	
145	"	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #144
146	"	W12-1D	24" X 24"	---	---	4.00	1	---	---	---	---	
147	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #133
148	"	R1-2	36" X 31"	3.88	---	---	---	1	---	---	---	
149	"	R4-7	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #142
150	STH 28, AT TAYLOR DR INTERSECTION	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	
151	"	R10-50	30" X 36"	7.50	---	---	---	---	---	---	---	TO BE MOUNTED ON MONOTUBE SIGNAL ARM NEXT TO FLASHING YELLOW HEAD
152	"	R1-2	36" X 31"	3.88	---	---	---	1	---	---	---	
153	"	W12-1D	24" X 24"	---	---	4.00	---	---	---	---	---	
154	"	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #150
155	STH 28, E. OF TAYLOR DRIVE	D15-1	48" X 78"	26.00	---	---	---	---	---	---	1 (S-59-22)	STA 306+00'WB', TO BE MOUNTED TO S-59-22 OVER RIGHT LANE USING W5X3.7 ALUMINUM I-BEAMS
156	"	D15-1	48" X 78"	26.00	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-22 OVER STRAIGHT THRU LANE USING W5X3.7 ALUMINUM I-BEAMS
157	"	D15-1	48" X 78"	26.00	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-22 OVER STRAIGHT THRU LANE USING W5X3.7 ALUMINUM I-BEAMS
158	TAYLOR DRIVE, S. OF STH 28	D15-2	90" X 90"	56.25	---	---	---	---	---	---	1 (S-59-23)	STA 9+46'T', TO BE MOUNTED TO S-59-23 CENTERED OVER LEFT LANE USING W5X3.7 ALUMINUM I-BEAMS
159	"	D15-2	90" X 90"	56.25	---	---	---	---	---	---	---	TO BE MOUNTED TO S-59-23 CENTERED OVER SECOND LEFT LANE USING W5X3.7 ALUMINUM I-BEAMS
	PAGE SUBTOTALS			573.89	39.84	16.00	4	12	0	0	3	
	PROJECT TOTALS			**1392.63**	**117.60**	**102.00**	**14**	**78**	**12**	**3**	**4**	

PLAN SHEET PRODUCED

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REMOVAL OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SPV.0105.01 REMOVING SIGN CANTILEVER S-59-18 LS	SPV.0105.02 REMOVING SIGN BRIDGE S-59-20 LS	REMARKS
100	PRANGE RD	R1-1	1	1	---	---	
101	"	R1-1	1	1	---	---	
102	VACANT	---	---	---	---	---	
103	STH 28, E. OF PRANGE RD	I3-1	1	1	---	---	
104	"	I3-1	1	1	---	---	
105	"	W14-3	1	1	---	---	
106	"	W3-5	1	1	---	---	
107	"	R2-1	1	1	---	---	
108	"	W6-1	1	1	---	---	
109	STH 28, W. OF CTH A	R4-7	1	1	---	---	
110	"	R2-1	1	1	---	---	
111	"	R5-1	1	1	---	---	
112	"	W6-3	---	---	---	---	MOUNTED ON BACK OF SIGN #111, PART OF REMOVAL FOR SIGN #111
113	"	W5-52L	---	---	---	---	MOUNTED ON BACK OF SIGN #109, PART OF REMOVAL FOR SIGN #109
114	"	R5-1A	1	1	---	---	
115	"	R4-7	1	1	---	---	
116	"	R6-2L	1	1	---	---	
117	"	R5-1	1	1	---	---	
118	"	W3-3	1	2	---	---	
119	"	R5-1	1	1	---	---	
120	"	W4-2L	---	---	---	---	MOUNTED ON BACK OF SIGN #119, PART OF REMOVAL FOR SIGN #119
121	"	J1-2	1	1	---	---	
122	"	D2-3	1	2	---	---	
123	"	R3-7L	1	1	---	---	
124	"	R2-1	1	1	---	---	
125	"	J4-1	1	1	---	---	ALSO REMOVE R2-1
126	"	D1-1	1	2	---	---	
127	"	R5-1A	---	---	---	---	MOUNTED ON BACK OF SIGN #126, PART OF REMOVAL FOR SIGN #126
128	STH 28, AT CTH A INTERSECTION	J13-1	1	1	---	---	
129	"	D4-5	1	1	---	---	
130	"	R5-1	---	---	---	---	MOUNTED ON BACK OF SIGN #128, PART OF REMOVAL FOR SIGN #128
131	"	R10-5	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
132	"	R4-7	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #131
133	CTH A	R6-2L	1	1	---	---	
134	"	R6-2R	---	---	---	---	PART OF REMOVAL FOR SIGN #133
135	"	R1-1F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
136	STH 28, AT CTH A INTERSECTION	R4-7	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
137	"	R5-1	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
138	"	R10-5	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #136
139	"	J13-1	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #137
140	"	D4-5	1	1	---	---	
141	STH 28, AT SB I-43 RAMP TERMINI	R3-7L	1	1	---	---	
142	"	R3-8Y	1	1	---	---	
143	"	R3-2	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
	PAGE SUBTOTALS		34	32	0	0	

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REMOVAL OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SPV.0105.01 REMOVING SIGN CANTILEVER S-59-18 LS	SPV.0105.02 REMOVING SIGN BRIDGE S-59-20 LS	REMARKS
144	STH 28, AT SB I-43 RAMP TERMINI	R5-1	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #143
145	SB I-43 OFF-RAMP AT STH 28	R5-1	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #154
146	STH 28, AT SB I-43 RAMP TERMINI	J3-1	1	1	---	---	ALSO REMOVE R11-54F
147	"	R5-1	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR #156
148	SB I-43 ON-RAMP	R5-57	1	1	---	---	
149	"	R6-2L	1	1	---	---	ALSO REMOVE R11-54F
150	STH 28, AT SB I-43 RAMP TERMINI	R4-7	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
151	"	J3-1	1	---	---	---	MOUNTED TO LIGHT POLE
152	SB I-43 OFF-RAMP AT STH 28	D4-5	1	1	---	---	
153	"	R1-2	1	1	---	---	
154	"	R1-1F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
155	"	R1-1F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
156	STH 28, AT SB I-43 RAMP TERMINI	R3-1	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
157	STH 28, BETWEEN RAMP TERMINI	J2-2	1	1	---	---	
158	"	D1-1	1	2	---	---	
159	"	J3-1	---	---	---	---	MOUNTED ON BACK OF SIGN #158, PART OF REMOVAL FOR SIGN #158
160	"	J3-2	1	1	---	---	
161	"	J1-1	1	1	---	---	
162	"	R5-1A	---	---	---	---	PART OF REMOVAL FOR SIGN #161
163	"	R3-5L	1	---	---	---	MOUNTED ABOVE STH 28 ON SB I-43 BRIDGE STRUCTURE
164	"	D1-1	1	2	---	---	
165	"	J2-1	1	1	---	---	
166	"	R6-2L	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
167	"	R3-1	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
168	NB I-43 OFF-RAMP AT STH 28	D4-5	1	1	---	---	
169	STH 28, BETWEEN RAMP TERMINI	R5-1	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #167
170	"	R11-54F	1	1	---	---	
171	NB I-43 OFF-RAMP AT STH 28	R5-1	---	---	---	---	MOUNTED ON BACK OF SIGN #168, PART OF REMOVAL FOR SIGN #168
172	NB I-43 ON-RAMP AT STH 28	R1-2	1	1	---	---	
173	STH 28, AT NB I-43 RAMP TERMINI	J3-1	1	1	---	---	
174	NB I-43 OFF-RAMP AT STH 28	R1-1F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
175	STH 28, AT NB I-43 RAMP TERMINI	R10-11F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
176	NB I-43 OFF-RAMP AT STH 28	R1-1F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
177	STH 28, AT NB I-43 RAMP TERMINI	R10-11F	1	---	---	1	REMOVE SIGN BRIDGE S-59-20, MOUNTED TO TRAFFIC SIGNAL, ALSO REMOVE R6-2R
178	STH 28, E. OF NB I-43 RAMP TERMINI	W3-3	1	1	---	---	
179	"	R5-1A	---	---	---	---	MOUNTED ON BACK OF SIGN #178, PART OF REMOVAL FOR SIGN #178
180	"	R3-2	1	---	---	---	MOUNTED TO LIGHT POLE
181	NB I-43 OFF-RAMP AT STH 28	R5-1	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #174
182	STH 28, E. OF NB I-43 RAMP TERMINI	R5-1A	---	---	---	---	MOUNTED ON BACK OF SIGN #183, PART OF REMOVAL FOR SIGN #183
183	"	J3-1	1	1	---	---	
184	"	R11-54F	1	1	---	---	
185	"	R3-5L	1	---	1	---	REMOVE SIGN CANTILEVER S-59-18
186	"	R3-5L	1	---	---	---	MOUNTED TO S-59-18
187	"	R3-8Y	1	2	---	---	
	PAGE SUBTOTALS		34	22	1	1	

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REMOVAL OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	SPV.0105.01 REMOVING SIGN CANTILEVER STRUCTURE LS	SPV.0105.02 REMOVING SIGN BRIDGE STRUCTURE LS	REMARKS
188	STH 28, E. OF NB I-43 RAMP TERMINI	D1-3	1	2	---	---	
189	"	R3-8MM	1	---	---	---	MOUNTED TO SIGN CANTILEVER S-59-21 COLUMN
190	"	R3-5R	1	---	1	---	REMOVE SIGN CANTILEVER S-59-21
191	"	R3-5R	1	---	---	---	MOUNTED TO S-59-21
192	"	J3-2	1	1	---	---	
193	"	R5-1	---	---	---	---	MOUNTED TO BACK OF SIGN #192, PART OF REMOVAL FOR SIGN #192
194	"	R2-1	1	1	---	---	
195	"	J1-1	1	1	---	---	
196	TAYLOR DR, AT STH 28 INTERSECTION	R10-11F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
197	STH 28, E. OF NB I-43 RAMP TERMINI	R10-11F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
198	"	R1-1F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
199	TAYLOR DR, AT STH 28 INTERSECTION	R1-1F	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #200
200	"	R4-7	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL, ALSO REMOVE R10-5
201	STH 28, AT TAYLOR DR INTERSECTION	R4-7	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
202	"	R4-7	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL, ALSO REMOVE R10-5
203	"	R10-5	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #201
204	TAYLOR DR, AT STH 28 INTERSECTION	R10-5	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL, ALSO REMOVE R1-1F
205	"	R4-7	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #204
206	"	R1-1F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
207	I-43 SB OFF-RAMP	D1-3	1	2	---	---	
208	"	R3-8P	1	2	---	---	
209	"	R3-8P	1	2	---	---	
210	"	J3-2	1	1	---	---	ALSO REMOVE R5-1A
211	"	R5-1A	1	1	---	---	
212	I-43 NB OFF-RAMP	J3-2	1	1	---	---	
213	"	R5-1A	---	---	---	---	MOUNTED TO S-59-19, PART OF REMOVAL FOR SIGN #214
214	"	J2-1	1	---	---	---	MOUNTED TO S-59-19
215	"	R5-1A	1	---	---	---	MOUNTED TO S-59-19
216	"	R3-6L	1	---	---	---	MOUNTED TO S-59-19 OVERHEAD
217	S. TAYLOR DRIVE	R10-11F	1	---	---	---	MOUNTED TO TRAFFIC SIGNAL
218	"	R3-8Y	1	---	---	---	MOUNTED TO VERTICAL COLUMN OF S-59-23
219	"	D15-1	1	---	1	---	REMOVE SIGN CANTILEVER S-59-23
220	"	D15-1	1	---	---	---	
221	"	R1-1	1	1	---	---	
222	STH 28, E. OF TAYLOR DRIVE	R3-5R	1	---	---	---	MOUNTED TO S-59-22 OVERHEAD
223	"	D15-1	1	---	1	---	REMOVE SIGN CANTILEVER S-59-22
224	"	R1-1	1	1	---	---	
225	N. TAYLOR DRIVE	D15-1	1	---	---	---	MOUNTED TO S-59-24 OVERHEAD
226	"	D15-1	1	---	1	---	REMOVE SIGN CANTILEVER S-59-24
	PAGE SUBTOTALS		35	16	4	0	
	PROJECT TOTALS		**103**	**70**	**5**	**1**	

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ERECTION OF TYPE I SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	637.1220 SIGNS TYPE I REFLECTIVE SH W X H	S.F.	635.0200 SIGN SUPPORTS STRUCT. STEEL HIGH-STRENGTH LB	636.0100 SIGN SUPPORTS CONCRETE MASONRY CY	636.0500 SIGN SUPPORTS STEEL REINFORCEMENT LB	TYPE/SIZE OF STEEL	638.2601 REMOVING SIGNS TYPE I EACH	INFO ONLY - POST LENGTH TO BE VERIFIED BY CONTRACTOR POST NO. 1 LENGTH FT	POST NO. 2 LENGTH FT	OFFSET DISTANCE FT	DISTANCE BETWEEN POSTS (S) FT	REMARKS
81	STH 28, SW QUADRANT OF INTERCHANGE	D1-71	144" X 114"	114.00	970	1.6	98	2-TYPE B	---	20.5	21.8	17.5	9.0	SEE SIGN DETAIL SHEET
82	"	D1-70	132" X 60"	55.00	---	---	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #81, SEE SIGN DETAIL SHEET
106	I-43 NB OFF-RAMP TO STH 28	E6-54R	144" X 90"	90.00	---	---	---	---	1	---	---	---	---	MOUNT TO S-59-19, CENTERED OVER LANE, SEE SIGN DETAIL SHEET
107	"	E6-54R	144" X 66"	66.00	---	---	---	---	1	---	---	---	---	MOUNT TO S-59-19, CENTERED OVER LANE, SEE SIGN DETAIL SHEET
113	STH 28, NE QUADRANT OF INTERCHANGE	D1-70	132" X 60"	55.00	986	1.6	98	2-TYPE B	---	20.9	22.4	17.5	9.0	SEE SIGN DETAIL SHEET
114	"	D1-71	144" X 114"	114.00	---	---	---	---	---	---	---	---	---	MOUNT ON BACK OF SIGN #113, SEE SIGN DETAIL SHEET
	PROJECT TOTALS			**494.00**	**1956**	**3.20**	**196**		**2**					

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INLET PROTECTION

STATION	LOCATION	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH
276EB+58	12' LT	-	-	1
276EB+58	20' LT	-	-	1
281EB+52	1' LT	2	-	-
281EB+52	8' LT	2	-	-
285EB+60	1' LT	1	-	-
285EB+60	20' LT	2	-	-
291EB+50	1' LT	-	1	1
291EB+50	15' LT	-	1	1
292EB+38	12' LT	-	-	1
294EB+13	1' LT	-	1	1
294EB+13	12' LT	-	-	1
294EB+13	29' LT	-	1	-
294EB+13	40' LT	-	-	1
298EB+18	28' LT	-	-	2
298EB+19	18'LT	-	-	2
298EB+76	33' LT	-	1	-
298EB+81	27' LT	-	-	1
299EB+30	90' LT	1	-	1
299EB+66	71' LT	-	-	1
299EB+82	26' LT	1	-	-
300EB+00	91' LT	-	-	2
300EB+03	39' RT	-	-	1
300EB+08	56' RT	-	-	1
302EB+34	48' RT	-	-	2
302EB+72	87' RT	1	-	-
302EB+96	110'RT	-	-	2
303EB+00	87' LT	-	-	2
303EB+10	23' LT	-	1	1
303EB+12	27' RT	-	1	1
306EB+81	23' RT	-	-	1
306EB+82	64' LT	-	-	1
306EB+93	8' LT	-	-	1
308EB+13	40' RT	-	-	1
310EB+42	44' LT	-	-	1
310EB+43	23' RT	-	-	1
SUBTOTAL		10	7	33

INLET PROTECTION (CONT.)

STATION	LOCATION	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH
246NE+37	15' RT	-	1	2
244SE+81	15'RT	-	-	1
244SE+90	16' RT	-	1	1
9T+00	62' LT	-	-	1
10T+25	23' LT	-	-	1
10T+61	31' LT	-	-	1
10T+93	40' RT	-	-	2
11T+01	13' LT	-	1	-
11T+01	26' LT	-	1	-
16T+00	11' LT	-	-	1
16T+17	66' LT	-	-	1
SUBTOTAL		0	4	11
TOTAL		10	11	44

FIELD OFFICE TYPE C

PROJECT	642.5201 EACH
PROJECT 4640-05-71	1
TOTAL	1

DELINEATORS

STATION	LOCATION	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS EACH
245NW+54 - 249NW+43	LT	4	4
243SW+16 - 244SW+92	LT	2	2
242SE+25 - 245SE+08	RT	3	3
246NE+56 - 253NE+62	RT	7	7
TOTAL		16	16

CULVERT PIPE CHECKS

STATION	LOCATION	628.7555 EACH
273EB+81	LT	5
276EB+14	RT	5
281EB+41	RT	5
281EB+59	RT	5
285EB+43	LT	5
285EB+47	LT	5
291EB+09	LT	5
291EB+13	RT	5
291EB+20	RT	5
291EB+24	LT	5
294EB+65	RT	5
294EB+70	RT	5
294EB+92	LT	5
247A+58	LT	5
243A+92	RT	5
244A+24	RT	5
244A+69	LT	5
246NW+34	LT	5
246NE+37	LT	5
246NE+73	RT	5
TOTAL		100

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TRAFFIC CONTROL

STAGE	DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAYS
STAGE 1A	15	368	5,520	32	480	50	750	38	570	34	510	-	-
STAGE 1B	40	267	10,680	76	3,040	95	3,800	40	1,600	38	1,520	3	120
STAGE 1C	25	260	6,500	66	1,650	91	2,275	49	1,225	28	700	2	50
STAGE 2A	10	356	3,560	69	690	89	890	54	540	50	500	-	-
STAGE 2B	30	352	10,560	65	1,950	83	2,490	54	1,620	43	1,290	-	-
STAGE 2C	20	333	6,660	44	880	57	1,140	63	1,260	39	780	-	-
STAGE 3	25	362	9,050	41	1,025	56	1,400	57	1,425	21	525	-	-
ADVANCE WARNING	165	-	-	-	-	-	-	-	-	29	4,785	-	-
TOTAL			52,530		9,715		12,745		8,240		10,610		170

TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (PROJECT)

PROJECT	643.0200 DAYS
PROJECT 4640-05-71	165
TOTAL	165

TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER ITEMS

STAGE	643.0500 POSTS EACH	643.0600 BASES EACH
STAGE 1A	-	-
STAGE 1B	91	91
STAGE 1C	8	8
STAGE 2A	125	125
STAGE 2B	-	-
STAGE 2C	63	63
STAGE 3	-	-
TOTAL	287	287

REMOVABLE TAPE

STAGE	649.0400 4-INCH WHITE LF	649.0400 4-INCH WHITE 2' LINE, 6' SPACE LF	649.0400 4-INCH WHITE 12.5' LINE, 37.5' SPACE LF	649.0400 4-INCH YELLOW LF	649.0801 8-INCH WHITE LF	649.1000 12-INCH STOP LINE WHITE LF
STAGE 1A	2371	-	-	9031	1036	-
STAGE 1B	8354	22	62.5	10626	608	-
STAGE 1C	2492	-	100	3429	-	15
STAGE 2A	5314	100	262.5	10938	959	-
STAGE 2B	890	-	-	-	-	90
STAGE 2C	4853	69	12.5	7422	1012	145
STAGE 3	4584	54	-	7823	1725	-
SUBTOTAL	28858	245	437.5	49269	5340	250
TOTAL			78810		5340	250

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ALL ITEMS IN CATEGORY 0010

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 28 DAYS	643.3000 DETOUR SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE S.F.	643.0910 COVERING SIGNS TYPE 1 EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
	SB OFF RAMP CLOSED - STAGE 1B									
1	600' S OF TYPE 1 (23-SHEBOYGAN/HOHLER; 1 1/4 MILES-EXIT 126 B/A)	FMS	11'-0"x5'-6"	1			60.50			SEE SIGN DETAIL
2	ACROSS FROM SIGN # 1 (MEDIAN SIDE)	FMS	11'-0"x5'-6"	1			60.50			SEE SIGN DETAIL
3	1200' S OF SIGN # 1	M 1-6	36"x36"	1	28	28				28
	" " "	WO 20-2-A	48"x48"	1	28	28				
4	ACROSS FROM SIGN # 3 (MEDIAN SIDE)	M 1-6	36"x36"	1	28	28				28
	" " "	WO 20-2-A	48"x48"	1	28	28				
5	1200' S OF SIGN # 3	MO 4-8	36"x18"	1	28	28				
	" " "	M 1-6	36"x36"	1	28	28				28
	" " "	MO 5-2-R	30"x30"	1	28	28				
6	ACROSS FROM SIGN # 5 (MEDIAN SIDE)	MO 4-8	36"x18"	1	28	28				
	" " "	M 1-6	36"x36"	1	28	28				28
	" " "	MO 5-2-R	30"x30"	1	28	28				
7	1200' S OF SIGN # 5	MO 4-8	36"x18"	1	28	28				
	" " "	M 1-6	36"x36"	1	28	28				28
	" " "	MO 5-2-R	30"x30"	1	28	28				
8	ACROSS FROM SIGN # 7 (MEDIAN SIDE)	MO 4-8	36"x18"	1	28	28				
	" " "	M 1-6	36"x36"	1	28	28				28
	" " "	MO 5-2-R	30"x30"	1	28	28				
9	LT OF TYPE 1 (23-SHEBOYGAN/HOHLER; TILT RT-EXIT 126 B/A)	MO 4-8	36"x18"	1	28	28				
	" " "	M 1-6	36"x36"	1	28	28				28
	" " "	MO 6-2	30"x30"	1	28	28				RIGHT
10	RT OF EAST LEG @ SIGN BRIDGE # S-59-4	MO 4-8	36"x18"	1	28	28				
	" " "	M 1-6	36"x36"	1	28	28				28
	" " "	MO 6-1	30"x30"	1	28	28				AHEAD
11	200' S OF W 4-1 (MERGING TRAFFIC) SIGN	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 5-2-R	21"x21"	1	28	28				
12	LT OF WEST LEG @ SIGN BRIDGE # S-59-5	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-2	21"x21"	1	28	28				RIGHT
13	LT OF E 5-1 (EXIT-TILT RT) SIGN	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-1	21"x21"	1	28	28				AHEAD
14	ACROSS FROM SIGN # 13 (MEDIAN SIDE)	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-1	21"x21"	1	28	28				AHEAD
15	LT OF SOUTH LEG TO SIGN BRIDGE # S-59-10	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-1	21"x21"	1	28	28				AHEAD
16	RT OF NORTH LEG TO SIGN BRIDGE # S-59-10	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-1	21"x21"	1	28	28				AHEAD
	PAGE SUBTOTALS					1,120	121	0	0	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 28 DAYS	643.3000 DETOUR SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE S.F.	643.0910 COVERING SIGNS TYPE 1 EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
17	200' E OF GORE EXIT SIGN @ TAYLOR DR (EB)	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-1	21"x21"	1	28	28				AHEAD
18	ACROSS FROM SIGN # 17 (MEDIAN SIDE)	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-1	21"x21"	1	28	28				AHEAD
19	RT OF J4-1 (EAST 23) E OF 25TH ST INTERSECTION	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-1	21"x21"	1	28	28				AHEAD
20	ACROSS FROM SIGN # 19 (MEDIAN SIDE)	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-1	21"x21"	1	28	28				AHEAD
21	200' E OF 19TH ST INTERSECTION ON KOHLER MEMORIAL DR	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-1	21"x21"	1	28	28				AHEAD
22	ACROSS FROM SIGN # 21 (MEDIAN SIDE)	MO 4-8	24"x12"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
	" " "	MO 6-1	21"x21"	1	28	28				AHEAD
23	200' E OF 17TH ST INTERSECTION ON KOHLER MEMORIAL DR	MO 4-8-A	24"x18"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
24	ACROSS FROM SIGN # 23 (MEDIAN SIDE)	MO 4-8-A	24"x18"	1	28	28				
	" " "	M 1-6	24"x24"	1	28	28				28
25	TYPE 1 (HWY 23- 1 1/2; HWY 28- 4 1/4; HWY V- 7 1/4)	R 55-58-A	44"x8"	1	28	28				OVER - 4 1/4
26	TYPE 1 28/A; SHEBOYGAN/SHEBOYGAN FALLS; 1 1/4 MILES)	R 55-58-A	76"x12"	1	28	28				OVER - 1 1/4
27	TYPE 1 28/A; SHEBOYGAN/SHEBOYGAN FALLS; TILT RT)	R 55-58-A	76"x12"	1	28	28				OVER - TILT RT
	PAGE SUBTOTALS					700	0	0	0	
	STAGE 1B TOTALS					**1,820**	**121**	**0**	**0**	

PLAN SHEET PRODUCED
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ALL ITEMS IN CATEGORY 0010

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 10 DAYS	643.3000 DETOUR SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE S.F.	643.0910 COVERING SIGNS TYPE 1 EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
	NB OFF RAMP CLOSED - STAGE 2A									
	GAP IN SIGN NUMBERING (28-49)									
50	1000' S OF TYPE 1 (V/OK; WALDO/SHEEBOYGAN; EXIT 1 MILE)	FMS	11'-0"x5'-6"	1			60.50			SEE SIGN DETAIL
51	ACROSS FROM SIGN # 50 (MEDIAN SIDE)	FMS	11'-0"x5'-6"	1			60.50			SEE SIGN DETAIL
52	1000' N OF TYPE 1 (V/OK; WALDO/SHEEBOYGAN; EXIT 1 MILE)	M 1-6	36"x36"	1	10	10				28
	" " "	WO 20-2-A	48"x48"	1	10	10				
53	ACROSS FROM SIGN # 52 (MEDIAN SIDE)	M 1-6	36"x36"	1	10	10				28
	" " "	WO 20-2-A	48"x48"	1	10	10				
54	1500' S OF SIGN # 52	MO 4-8	36"x18"	1	10	10				
	" " "	M 1-6	36"x36"	1	10	10				28
	" " "	MO 5-2-R	30"x30"	1	10	10				
55	ACROSS FROM SIGN # 54 (MEDIAN SIDE)	MO 4-8	36"x18"	1	10	10				
	" " "	M 1-6	36"x36"	1	10	10				28
	" " "	MO 5-2-R	30"x30"	1	10	10				
56	1200' S OF SIGN # 54	MO 4-8	36"x18"	1	10	10				
	" " "	M 1-6	36"x36"	1	10	10				28
	" " "	MO 5-2-R	30"x30"	1	10	10				
57	ACROSS FROM SIGN # 56 (MEDIAN SIDE)	MO 4-8	36"x18"	1	10	10				
	" " "	M 1-6	36"x36"	1	10	10				28
	" " "	MO 5-2-R	30"x30"	1	10	10				
58	LT OF TYPE 1 (V/OK; WALDO/SHEEBOYGAN; TILT RT)	MO 4-8	36"x18"	1	10	10				
	" " "	M 1-6	36"x36"	1	10	10				28
	" " "	MO 6-2	30"x30"	1	10	10				RIGHT
59	125' N OF W 3-1 (STOP AHEAD) SIGN ON NB OFF- RAMP TO CTY V/OK	MO 4-8	24"x12"	1	10	10				
	" " "	M 1-6	24"x24"	1	10	10				28
	" " "	MO 5-1-R	21"x21"	1	10	10				
60	LT OF J 13-2 (CTY V-LT & RT; CTY OK- LT & RT)	MO 4-8	24"x12"	1	10	10				
	" " "	M 1-6	24"x24"	1	10	10				28
	" " "	MO 6-1	21"x21"	1	10	10				RIGHT
61	LT OF J 13-1 (CTY V-AH RT)	MO 4-8	24"x12"	1	10	10				
	" " "	M 1-6	24"x24"	1	10	10				28
	" " "	MO 6-1	21"x21"	1	10	10				AHEAD
62	LT OF D1-1 (SHEBOYGAN - 6)	MO 4-8	24"x12"	1	10	10				
	" " "	M 1-6	24"x24"	1	10	10				28
	" " "	MO 6-1	21"x21"	1	10	10				AHEAD
63	250' N OF STAHL RD INTERSECTION ON CTY OK	MO 4-8	24"x12"	1	10	10				
	" " "	M 1-6	24"x24"	1	10	10				28
	" " "	MO 6-1	21"x21"	1	10	10				AHEAD
64	200 S OF W2-6 (R-A-B AHEAD) SIGN ON CTY OK	MO 4-8	24"x12"	1	10	10				
	" " "	M 1-6	24"x24"	1	10	10				28
	" " "	MO 6-1	21"x21"	1	10	10				AHEAD
	PAGE SUBTOTALS					370	121	0	0	

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ALL ITEMS IN CATEGORY 0010

3

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 10 DAYS	643.3000 DETOUR SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE S.F.	643.0910 COVERING SIGNS TYPE 1 EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
65	ABOVE D1-1 (BUSINESS DR) IN N. SPLITTER ISLAND OF CTY EE & CTY OK ROUNDABOUT	MO 4-8	24"x12"	1	10	10				
	" " "	M 1-6	24"x24"	1	10	10				28
	" " "	MO 6-1	21"x21"	1	10	10				AHEAD
66	MODIFY J1-2 (JCT 28; END OK)	MO 4-8-A	24"x18"	1	10	10				
	" " "	M 1-5-A	EXISTING		10	0				28
67	TYPE 1 (HWY V- 1 3/4; HWY 28- 4 3/4; HWY 23- 7)	R 55-58-A	44"x8"	1	10	10				OVER - 4 3/4
68	TYPE 1 (HWY 28- 2; HWY 23- 4 1/4; HWY 42- 7 1/4)	R 55-58-A	44"x8"	1	10	10				OVER - 2
69	TYPE 1 (28/A; SHEBOYGAN/SHEBOYGAN FALLS; 1 MILE)	R 55-58-A	76"x12"	1	10	10				OVER -1 MILE
70	TYPE 1 (28/A; SHEBOYGAN/SHEBOYGAN FALLS; TILT RT)	R 55-58-A	76"x12"	1	10	10				OVER -TILT RT ARROW
	PAGE SUBTOTALS					80	0	0	0	
	STAGE 2A TOTALS					**450**	**121**	**0**	**0**	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 20 DAYS	643.3000 DETOUR SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE S.F.	643.0910 COVERING SIGNS TYPE 1 EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
	SB ON RAMP CLOSED - STAGE 2C									
	GAP IN SIGN NUMBERING (71-97)									
98	SAME LOCATION AS SIGN # 73	FMS	4'-6"x2'-6"		20	0	11.25			SEE SIGN DETAIL
99	SAME LOCATION AS SIGN # 74	FMS	4'-6"x2'-6"		20	0	11.25			SEE SIGN DETAIL
100	J3-1 (TO-43-LT)				20	0			1	TO-43-LEFT
101	MODIFY J2-2 (W-28-AH RT; TO-43-AH RT)	M 4-5	EXISTING		20	0				
	" " "	MB 1-51	EXISTING		20	0				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
102	MODIFY J3-3 (S-OK-AH; W-28-RT; TO-43-RT)	M 4-5	EXISTING		20	0				
	" " "	MB 1-51	EXISTING		20	0				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
103	J4-2 (W-28; TO-43)				20	0			1	TO-43
104	J2-1 (S-43-AH LT)				20	0			1	SOUTH-43-AHEAD LEFT
105	J3-1 (S-43-LT) RT-SIDE				20	0			1	SOUTH-43-LEFT
106	J3-1 (S-43-LT) MEDIAN -SIDE				20	0			1	SOUTH-43-LEFT
107	J3-1 (S-43-LT) MEDIAN -SIDE				20	0			1	SOUTH-43-LEFT
108	D1-1 (LT-MILWAUKEE)				20	0			1	LEFT-MILWAUKEE
109	J3-1 (S-43-RT)				20	0			1	SOUTH-43-RIGHT
110	LT OF J 1-1 (JCT TA)	MO 4-5	24"x12"	1	20	20				
	" " "	MB 3-3	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
111	ACROSS FROM SIGN # 110 (MEDIAN SIDE)	MO 4-5	24"x12"	1	20	20				
	" " "	MB 3-3	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
112	SAME LOCATION AS SIGN # 84	MO 4-5	24"x12"	1	20	20				
	" " "	MB 3-3	24"x12"	1	20	20				
	" " "	MB 1-51	EXISTING		20	0				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
113	SAME LCOATION AS SIGN # 85	MO 4-5	24"x12"	1	20	20				
	" " "	MB 3-**3**	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
114	SAME LCOATION AS SIGN # 86	FMS	4'-6"x2'-6"		20	0	11.25			SEE SIGN DETAIL
115	SAME LCOATION AS SIGN # 87	FMS	4'-6"x2'-6"		20	0	11.25			SEE SIGN DETAIL
116	TYPE 1 (TO-SOUTH-43, DOWN ARROW, TO-WEST-28) ON TAYLOR DR (NORTH LEG)				20	0		1		TO-NORTH-43
117	SAME LOCATION AS SIGN # 89	MO 4-5	24"x12"	1	20	20				
	" " "	MB 3-3	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				LEFT
118	SAME LOCATION AS SIGN # 90	FMS	4'-6"x2'-6"		20	0	11.25			SEE SIGN DETAIL
	PAGE SUBTOTALS					420	56	1	8	

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ALL ITEMS IN CATEGORY 0010

3

TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 20 DAYS	643.3000 DETOUR SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE S.F.	643.0910 COVERING SIGNS TYPE 1 EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
119	SAME LOCATION AS SIGN # 91	FMS	4'-6"x2'-6"		20	0	11.25			SEE SIGN DETAIL
120	TYPE 1 (TO-SOUTH-43, DOWN ARROW, TO-WEST-28) ON TAYLOR DR (SOUTH LEG)				20	0		1		TO-NORTH-43
121	SAME LOCATION AS SIGN # 93	MO 4-5	24"x12"	1	20	20				
	" " "	MB 3-3	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				LEFT
122	SAME LOCATION AS SIGN # 94	MO 4-5	24"x12"	1	20	20				
	" " "	MB 3-3	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
123	SAME LOCATION AS SIGN # 95	FMS	4'-6"x2'-6"		20	0	11.25			SEE SIGN DETAIL
124	SAME LOCATION AS SIGN # 96	FMS	4'-6"x2'-6"		20	0	11.25			SEE SIGN DETAIL
125	200' E OF GREENWING DR INTERSECTION ON HWY 28	MO 4-5	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
126	200' W OF SIGN # 127	MO 4-5	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 5-1-R	21"x21"	1	20	20				
127	ABOVE J 3-2 (E-28-LT; S-OK-RT)	MO 4-5	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				RIGHT
128	200' S OF HWY 28 INTERSECTION ON CTY OK	MO 4-5	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
129	LT OF J1-1 (JCT EE)	MO 4-5	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
130	ABOVE D1-1 (BUSINESS DR) IN S. SPLITTER ISLAND OF CTY EE & CTY OK ROUNDABOUT	MO 4-5	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-2	21"x21"	1	20	20				RIGHT
131	200' S OF STAHL RD INTERSECTION ON CTY OK	MO 4-5	24"x12"	1	20	20				
	" " "	MB 1-51	24"x24"	1	20	20				43
	" " "	MO 6-1	21"x21"	1	20	20				AHEAD
	PAGE SUBTOTALS					580	34	1	0	
	STAGE 2C TOTALS					**1,000**	**90**	**2**	**8**	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 156 DAYS	643.3000 DETOUR SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE S.F.	643.0910 COVERING SIGNS TYPE 1 EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
	TAYLOR DR - ALT ROUTE									
	GAP IN SIGN NUMBERING (132-149)									
150	NE QUAD OF HWY 28 & 32ND ST INTERSECTION	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	TAYLOR DR	36"x12"	1	156	156				SEE SIGN DETAIL
	" " "	MO 6-1	21"x21"	1	156	156				RIGHT
151	300' E OF SIGN # 150 ON HWY 28	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	TAYLOR DR	36"x12"	1	156	156				SEE SIGN DETAIL
	" " "	MO 5-1-R	21"x21"	1	156	156				
152	SW QUAD OF HWY 28 & 32ND ST INTERSECTION	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	TAYLOR DR	36"x12"	1	156	156				SEE SIGN DETAIL
	" " "	MO 6-1	21"x21"	1	156	156				LEFT
153	300' W OF SIGN # 152 ON HWY 28	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	TAYLOR DR	36"x12"	1	156	156				SEE SIGN DETAIL
	" " "	MO 5-1-L	21"x21"	1	156	156				
154	RT OF SB STOP SIGN ON 32ND ST	M 1-6	24"x24"	1	156	156				
	" " "	MO 6-4	21"x21"	1	156	156				
155	250' S OF SIGN # 156	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	TAYLOR DR	36"x12"	1	156	156				SEE SIGN DETAIL
	" " "	MO 5-1-L	21"x21"	1	156	156				
156	RT OF STOP SIGN	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	TAYLOR DR	36"x12"	1	156	156				SEE SIGN DETAIL
	" " "	MO 6-1	21"x21"	1	156	156				LEFT
157	SW QUAD CROCKER ST & 32ND ST	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 6-1	21"x21"	1	156	156				RIGHT
158	250' S OF SIGN # 157	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 5-1-R	21"x21"	1	156	156				
159	200' E OF TAYLOR DR ON CROCKER ST	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 6-1	21"x21"	1	156	156				AHEAD
	PAGE SUBTOTALS					5,928	0	0	0	

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TRAFFIC CONTROL DETOUR SIGN SUMMARY

SIGN NO.	LOCATION	SIGN CODE	SIZE W X H	NUMBER IN SERVICE	APPROX. SERVICE PERIOD 156 DAYS	643.3000 DETOUR SIGNS DAYS	643.1000 SIGNS FIXED MESSAGE S.F.	643.0910 COVERING SIGNS TYPE 1 EACH	643.0920 COVERING SIGNS TYPE II EACH	REMARKS
160	NW QUAD OF TAYLOR DR & CROCKER ST INTERSECTION	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 6-1	21"x21"	1	156	156				LEFT
161	MEDIAN QUAD OF TAYLOR DR & CROCKER ST INTERSECTION	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 6-1	21"x21"	1	156	156				LEFT
162	300' N OF SIGN # 160	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 5-1-L	21"x21"	1	156	156				LEFT
163	300' N OF SIGN # 162	G-20-56	132"x36"	1	156	156				
164	ACROSS FROM SIGN # 163	G-20-56	132"x36"	1	156	156				
165	500' S OF GERMAINE AVE INTERSECTION ON TAYLOR DR	G-20-56	132"x36"	1	156	156				
166	ACROSS FROM SIGN # 165 (MEDIAN SIDE)	G-20-56	132"x36"	1	156	156				
167	250' S OF GERMAINE AVE INTERSECTION ON TAYLOR DR	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 5-1-R	21"x21"	1	156	156				LEFT
168	SE QUAD OF TAYLOR DR & GERMAINE AVE INTERSECTION	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 6-1	21"x21"	1	156	156				RIGHT
169	SE QUAD OF GERMAINE AVE & POND CT INTERSECTION	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 6-1	21"x21"	1	156	156				LEFT
170	NE QUAD OF POND CT & GREENWING DR INTERSECTION	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 6-1	21"x21"	1	156	156				AHEAD
171	250' W OF STOP SIGN ON GREENWING DR (WEST LEG)	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 5-1-L	21"x21"	1	156	156				LEFT
172	RT OF STOP SIGN ON GREENWING DR (WEST LEG)	MO 4-1-A	24"x12"	1	156	156				
	" " "	MO 4-5	24"x12"	1	156	156				
	" " "	M 1-6	24"x24"	1	156	156				28
	" " "	MO 6-1	21"x21"	1	156	156				LEFT
	PAGE SUBTOTALS					6,240	0.00	0	0	
	ALTERNATE ROUTE TOTALS					**12,168**	**0.00**	**0**	**0**	
	PROJECT TOTALS					15,438	332.00	2	8	

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ALL ITEMS IN CATEGORY 0010

PAVEMENT MARKING EPOXY

STATION			LOCATION	646.0106 4-INCH WHITE LF	646.0106 4-INCH YELLOW LF	646.0106 4-INCH DOUBLE YELLOW LF	646.0106 4-INCH DASHED WHITE 3-FT LINE 9-FT SKIP LF	646.0106 4-INCH DASHED WHITE 12.5-FT LINE 37.5-FT SKIP LF	646.0126 8-INCH WHITE LF	646.0126 8-INCH DASHED WHITE 2-FT LINE 6-FT SKIP LF	646.0126 8-INCH DASHED WHITE 3-FT LINE 9-FT SKIP LF
26785	-	27064	CENTERLINE	-	-	424	-	-	-	-	-
26839	-	289WB+77	EDGE LINE	2117	-	-	-	-	-	-	-
27064	-	280EB+00	EDGE LINE	937	-	-	-	-	-	-	-
27064	-	277WB+05	MEDIAN	-	-	1284	-	-	-	-	-
27064	-	27706	MEDIAN	-	-	1284	-	-	-	-	-
27706	-	289EB+77	EB CENTERLINE	-	-	-	-	312.5	-	-	-
27706	-	289WB+77	WB CENTERLINE	-	-	-	-	250	-	-	-
27860	-	27988	BIKE LANE	-	-	-	33	-	-	-	-
27890	-	27988	BIKE LANE	-	-	-	-	-	-	-	24
27988	-	280EB+55	BIKE LANE	67	-	-	-	-	67	-	-
281WB+48	-	283WB+48	TURN LANE	-	-	-	-	-	200	-	-
282EB+63	-	286EB+48	BIKE LANE LINE	385	-	-	-	-	-	-	-
286EB+48	-	287EB+98	DOTTED LANE	150	-	-	-	-	-	-	39
287EB+98	-	289EB+77	BIKE LANE	180	-	-	-	-	360	-	-
291WB+28	-	293WB+35	TURN LANE	-	-	-	-	75	336	-	-
291EB+33	-	294EB+10	RT LANE LINES	-	-	-	-	75	176	-	24
292EB+37	-	294EB+10	TURN LANE	-	-	-	-	-	173	-	-
294EB+89	-	298EB+23	TURN LANE	-	-	-	-	87.5	334	-	-
294WB+89	-	298WB+23	TURN LANE	-	-	-	-	87.5	334	-	-
298WB+88	-	301WB+16	SOLID TURN LINE	-	-	-	-	-	228	-	-
298WB+88	-	302WB+83	SOLID TURN LINE	-	-	-	-	100	296	-	24
299WB+83	-	300WB+45	SOLID TURN LINE	-	-	-	-	-	64	-	-
298EB+88	-	303EB+12	DASH LINE	-	-	-	-	112.5	-	-	-
299EB+13	-	300EB+09	DASH LINE	-	-	-	-	-	-	26	-
300EB+09	-	303EB+12	SOLID TURN LINE	-	-	-	-	-	203	-	24
300EB+74	-	303EB+12	TURN LANES	-	-	-	-	-	476	-	-
302EB+03	-	302EB+78	TURN LANE	-	-	-	-	-	77	-	-
304WB+65	-	306WB+99	SOLID CHANNEL LINE	-	-	-	-	-	486	-	-
304WB+65	-	315WB+20	CENTER DASH	-	-	-	-	287.5	-	-	-
304WB+87	-	305WB+57	SOLID TURN LINE	-	-	-	-	-	70	-	-
304WB+88	-	305WB+20	SOLID TURN LINE	-	-	-	-	-	31	-	-
304EB+76	-	310EB+50	CENTER DASH	-	-	-	-	150	-	-	-
309EB+55	-	310EB+54	SOLID TURN LINE	-	-	-	-	-	98	-	-
240A+96	-	244A+07	CENTER DASH	-	-	-	-	75	-	-	-
241A+21	-	242A+18	CHANNEL LINES	-	-	408	-	-	-	-	-
242A+95	-	245A+57	CENTER CHANNEL LINES	-	-	922	-	-	-	-	-
			SUBTOTALS	3836	0	4322	33	1612.5	4009	26	135

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

PAVEMENT MARKING EPOXY (CONT.)

STATION			LOCATION	646.0106 4-INCH WHITE LF	646.0106 4-INCH YELLOW LF	646.0106 4-INCH DOUBLE YELLOW LF	646.0106 4-INCH DASHED WHITE 3-FT LINE 9-FT SKIP LF	646.0106 4-INCH DASHED WHITE 12.5-FT LINE 37.5-FT SKIP LF	646.0126 8-INCH WHITE LF	646.0126 8-INCH DASHED WHITE 2-FT LINE 6-FT SKIP LF	646.0126 8-INCH DASHED WHITE 3-FT LINE 9-FT SKIP LF
243A+00	-	245A+57	SB LANES	-	-	-	-	25	75	-	24
244A+07	-	245A+57	SOLID TURN LINE	-	-	-	-	-	148	-	-
244A+07	-	245A+26	EDGE LINE	115	-	-	-	-	-	-	-
244A+72	-	245A+57	SOLID TURN LINE	-	-	-	-	-	85	-	-
247A+02	-	247A+59	SOLID TURN LINE	-	-	-	-	-	59	-	-
247A+02	-	248A+60	SOLID TURN LINE	-	-	-	-	-	160	-	-
247A+02	-	249A+91	CENTER LINE	-	-	578	-	-	-	-	-
247A+20	-	248A+41	EDGE LINE	109	-	-	-	-	-	-	-
247A+31	-	248A+41	EDGE LINE	115	-	-	-	-	-	-	-
248A+60	-	252A+63	CENTER LINE	-	-	816	-	-	-	-	-
238SW+00	-	244SW+58	LT EDGE LINE	687	-	-	-	-	-	-	-
238SW+00	-	244SW+70	RT EDGE LINE	-	699	-	-	-	-	-	-
245NW+70	-	249NW+80	SOLID TURN LINES	-	-	-	-	-	855	-	-
245NW+70	-	252NW+00	REFERENCE LINE	-	630	-	-	-	-	-	-
246NW+08	-	252NW+00	EDGE LINE	593	-	-	-	-	-	-	-
237SE+16	-	244SE+85	REFERNCE LINE	-	768	-	-	-	-	-	-
237SE+16	-	244SE+00	EDGE LINE	685	-	-	-	-	-	-	-
238SE+82	-	244SE+13	TURN LANE	-	-	-	-	-	530	-	-
238SE+82	-	244SE+89	TURN LANE	-	-	-	-	-	609	-	-
244SE+13	-	244SE+92	TURN LANE	-	-	-	-	-	77	-	-
244SE+19	-	244SE+92	TURN LANE	-	-	-	-	-	74	-	-
246NE+00	-	253NE+62	REFERENCE LINE	-	761	-	-	-	-	-	-
246NE+25	-	248NE+03	RAMP TURN LANE	-	-	-	-	-	161	-	-
246NE+67	-	248NE+03	SOLID LINE	-	-	-	-	-	90	-	-
247NE+23	-	253NE+62	EDGE LINE	647	-	-	-	-	-	-	-
248NE+03	-	249NE+53	CENTER SKIPS	-	-	-	24	-	-	-	-
2T+48	-	11T+66	CENTER DASH	-	-	-	-	212.5	-	-	-
5T+24	-	6T+35	MEDIAN	-	-	-	-	-	242	-	-
7T+18	-	8T+11	TURN LANE	-	-	-	-	-	93	-	-
7T+26	-	11T+66	CENTER DASH	-	-	-	-	87.5	-	-	-
9T+17	-	11T+02	TURN LANES	-	-	-	-	-	375	-	-
9T+85	-	11T+05	TURN LANE	-	-	-	-	-	130	-	-
10T+83	-	11T+18	TURN LANE	-	-	-	-	-	33	-	-
12T+28	-	13T+28	TURN LANES	-	-	-	-	-	222	-	-
12T+37	-	14T+83	MEDIAN	-	-	-	-	-	458	-	-
12T+37	-	22T+49	CENTER DASH	-	-	-	-	250	-	-	-
12T+48	-	14T+94	CENTER DASH	-	-	-	-	62.5	-	-	-
			SUBTOTALS	2951	2858	1394	24	637.5	4476	0	24
			TOTALS			17668				8670	

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

PAVEMENT MARKING EPOXY (CONTINUED)

STATION	LOCATION	647.0456 YELLOW CURB EPOXY LF	647.0566 WHITE STOP LINE EPOXY 18-INCH LF	647.0606 YELLOW ISLAND NOSE EPOXY EACH	647.0653 WHITE PARKING STALL EPOXY LF	647.0706 WHITE DIAGONAL EPOXY 6-INCH LF	647.0726 WHITE DIAGONAL EPOXY 12-INCH LF	647.0726 YELLOW DIAGONAL EPOXY 12-INCH LF	647.0766 WHITE CROSSWALK EPOXY 6-INCH LF	647.0796 WHITE CROSSWALK EPOXY 24-INCH LF
270+64 - 276+50	MEDIAN	-	-	-	-	-	-	480	-	-
280EB+00 - 280EB+55	MEDIAN	57	-	1	-	-	-	-	-	-
281EB+48	MEDIAN	10	-	1	-	-	-	-	-	-
289EB+77	MEDIAN	82	-	1	-	-	-	-	-	-
291EB+33	MEDIAN	54	-	1	-	-	-	-	-	-
294EB+89	MEDIAN	76	-	1	-	-	-	-	-	-
298EB+23	MEDIAN	83	-	1	-	-	-	-	-	-
303EB+03 - 303EB+12	CROSSWALK	-	29	-	-	-	-	-	63	-
303EB+12	MEDIAN	42	42	1	-	-	-	-	-	-
304EB+65	MEDIAN	39	-	1	-	-	-	-	-	-
304WB+65 - 306WB+99	MEDIAN	-	33	-	-	-	216	-	-	-
241A+21 242A+18	MEDIAN	-	-	-	-	-	-	12	-	-
242A+95 - 244A+72	MEDIAN	-	-	-	-	-	-	68	-	-
245A+57 - 245A+65	CROSSWALK	-	45	-	-	-	-	-	207	-
247A+02	STOP LINE	-	146	-	-	-	-	-	-	-
248A+60 - 252A+63	MEDIAN	-	-	-	-	-	-	83	-	-
244SE+89 - 244SE+92	CROSSWALK	-	65	-	-	-	-	-	135	-
5T+24 - 6T+35	MEDIAN	-	-	-	-	-	39	-	-	-
10T+99	MEDIAN	34	-	1	-	-	-	-	-	-
11T+00 - 11T+22	CROSSWALK	-	50	-	-	-	-	-	161	48
12T+28	RIGHT TURN LANE	-	33	-	-	-	-	-	-	-
12T+37	THRU LANE	-	22	-	-	-	-	-	-	-
12T+44	LEFT TURN LANE	54	15	1	-	-	-	-	-	-
12T+44 - 14T+83	MEDIAN	-	-	-	-	-	108	-	-	-
0P+00 3P+25	PARK AND RIDE	-	-	-	950	40	-	-	-	-
TOTALS		531	480	10	950	40	1006		566	48

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

3

PAVEMENT MARKING EPOXY (CONTINUED)

STATION		LOCATION	647.0166 ARROWS EPOXY TYPE 2 EACH	647.0176 ARROWS EPOXY TYPE 3 EACH	647.0356 WORDS EPOXY EACH
287EB+98	- 289EB+77	TURN LANE	4	-	2
291WB+28	- 293WB+35	TURN LANE	4	-	2
291EB+33	- 294EB+10	RT LANE LINES	2	-	2
294EB+89	- 298EB+23	TURN LANE	2	-	2
294WB+89	- 298WB+23	TURN LANE	2	-	2
300EB+09	- 303EB+12	RT TURN LINE	2	-	2
300EB+74	- 303EB+12	LT TURN LANES	4	-	4
300WB+45	- 302WB+83	RT TURN LANE	1	-	1
304WB+65	- 306WB+99	LT TURN LANE	1	-	1
304WB+90	- 305WB+60	RT TURN LANE	1	-	1
309EB+55	- 310EB+54	LT TURN LANE	1	-	1
243A+00	- 244A+72	SB RT TURN	2	-	2
243A+00	245A+57	NB TURN LANES	3	-	3
247A+02	248A+41	SB TURN LANES	3	-	2
245NW+70	- 249NW+80	TURN LANES	6	3	4
238SE+82	- 244SE+19	TURN LANES	6	3	4
9T+17	- 11T+02	TURN LANES	4	-	2
12T+28	- 13T+28	RT TURN LANES	2	-	2
12T+44	- 14T+38	LT TURN LANES	1	-	1
	TOTAL		51	6	40

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

3

CONSTRUCTION STAKING

STATION			LOCATION	650.4500 SUBGRADE LF	650.5500 CURB, GUTTER, AND CURB & GUTTER LF	650.6500 STRUCTURE LAYOUT LS	650.7000 CONCRETE PAVEMENT LF	650.8000 RESURFACING REFERENCE LF	650.8500 ELECTRIAL INSTALLATIONS LS	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
PROJECT 4640-05-71				-	-	1	-	-	1	1	-
244+94	-	258+77	LT	1,383	-	-	-	-	-	-	1,383
245+77	-	258+63	RT	1,286	-	-	-	-	-	-	1,286
268+39	-	270+64	LT	225	-	-	-	-	-	-	225
270+64	-	280+00	LT	936	-	-	-	936	-	-	936
272+14	-	280+00	RT	786	-	-	-	786	-	-	786
280WB+00	-	305WB+59	MAINLINE	2,559	-	-	2,559	-	-	-	2,559
280EB+00	-	305EB+59	MAINLINE	2,559	-	-	2,559	-	-	-	2,559
309WB+76	-	310WB+55	MAINLINE	-	79	-	-	-	-	-	-
237SW+71	-	243SW+16	SW RAMP	545	-	-	-	545	-	-	545
243SW+16	-	244SW+92	SW RAMP	176	-	-	176	-	-	-	176
245NW+54	-	249NW+43	NW RAMP	389	-	-	389	-	-	-	389
249NW+43	-	252NW+00	NW RAMP	257	-	-	-	257	-	-	257
237SE+16	-	242SE+25	SE RAMP	509	-	-	-	509	-	-	509
242SE+25	-	245SE+08	SE RAMP	283	-	-	283	-	-	-	283
245NE+95	-	246NE+56	NE RAMP	61	-	-	61	-	-	-	61
246NE+56	-	249NE+36	NE RAMP	280	-	-	280	-	-	-	280
249NE+36	-	253NE+62	NE RAMP	426	-	-	-	426	-	-	426
244A+07	-	245A+80	CTH A	173	-	-	173	-	-	-	173
246A+34	-	247A+50	CTH A	116	-	-	116	-	-	-	116
8T+35	-	9T+36	TAYLOR DR	-	101	-	-	-	-	-	-
10T+49	-	11T+78	TAYLOR DR	129	-	-	129	-	-	-	129
11T+78	-	13T+29	TAYLOR DR	151	-	-	151	-	-	-	151
13T+29	-	14T+68	TAYLOR DR	-	139	-	-	-	-	-	-
TOTAL				13,229	319	1	6,876	3,459	1	1	13,229

650.6500 IS IN CATEGORY 0020

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

SAWING

STATION	LOCATION	ASPHALT 690.0150 LF	CONCRETE 690.025 LF
0+00P	LT/RT	60	-
270+64	LT/RT	24	-
280EB+00	RT	-	40
280WB+00	LT	-	36
281EB+00	RT	-	30
305EB+15	LT/RT	-	100
244A+06	LT/RT	48	-
247A+74	LT/RT	40	-
237SW+71	LT/RT	-	20
243SW+20	LT/RT	-	20
249NW+45	LT/RT	-	20
252NW+00	LT/RT	-	20
237SE+16	LT/RT	-	24
242SE+25	LT/RT	-	30
249NE+30-253NE+60	LT/RT	-	470
TOTAL		172	810

BICYLE RACK ASPHALT OR CONCRETE-MOUNTED

LOCATION	999.1950.S EACH
PARK AND RIDE LOT	1
TOTALS	1

WALL MODULAR BLOCK GRAVITY LRFD

STATION	LOCATION	SPV.0165.02 SF
305+00EB - 307+50EB	RT	840
TOTALS		840

RAILING STEEL PIPE
GALVANIZED PEDESTRIAN

STATION	LOCATION	SPV.0105.07 LS
305+00EB - 307+50EB	RT	1
TOTALS		1

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

TRAFFIC SIGNAL QUANTITY SUMMARY SHEET 1 OF 2

ITEM NUMBER		DESCRIPTION		UNIT	STH 28 & S. TAYLOR DR. QUANTITY	IH 43 & STH 28 RAMP GATES QUANTITY	IH 43 NB & STH 28 TRAFFIC SIGNAL INSTALLATION (S59-2006) QUANTITY	IH 43 SB & STH 28 TRAFFIC SIGNAL REVISION 3 (S-475) QUANTITY	STH 28 & CTH A TRAFFIC SIGNAL REVISION 1 (S-833) QUANTITY	TOTAL QUANTITY
204.0195		REMOVING CONCRETE BASES		EACH	16	4	14	13	13	60
652.0210		CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH		L.F.			480	500	510	1490
652.0225		CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH		L.F.	1575	66	140	180	80	2041
652.0235		CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH		L.F.	2275	56	1320	1310	1380	6341
652.0700.S		INSTALL CONDUIT INTO EXISTING ITEM		EACH	2					2
652.0800		CONDUIT LOOP DETECTOR		L.F.	360		750	590	1080	2780
653.0105		PULL BOXES STEEL 12X24-INCH		EACH			13	11	16	40
653.0135		PULL BOXES STEEL 24X36-INCH		EACH	4					4
653.0140		PULL BOXES STEEL 24X42-INCH		EACH	16	1	11	11	11	50
653.0905		REMOVING PULL BOXES		EACH	30		18	17	16	81
654.0101		CONCRETE BASES TYPE 1		EACH	7		7	6	4	24
654.0102		CONCRETE BASES TYPE 2		EACH	6		1	1		8
654.0105		CONCRETE BASES TYPE 5		EACH	3	3				6
654.0110		CONCRETE BASES TYPE 10		EACH			1	1	1	3
654.0113		CONCRETE BASES TYPE 13		EACH	4		2	2	3	11
654.0217		CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL		EACH	1		1	1	1	4
654.0220		CONCRETE CONTROL CABINET BASES TYPE 10		EACH		1				1
655.0230		CABLE TRAFFIC SIGNAL 5-14 AWG		L.F.	945		2965	2440	1945	8295
655.0240		CABLE TRAFFIC SIGNAL 7-14 AWG		L.F.	198		450	370	260	1278
655.0260		CABLE TRAFFIC SIGNAL 12-14 AWG		L.F.	3346		330	390	1140	5206
655.0270		CABLE TRAFFIC SIGNAL 15-14 AWG		L.F.	1476					1476
655.0305		CABLE TYPE UF 2-12 AWG GROUNDED		L.F.			860	940	980	2780
655.0320		CABLE TYPE UF 2-10 AWG GROUNDED		L.F.	1691					1691
655.0515		ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG		L.F.	2970		1930	2280	1990	9170
655.0610		ELECTRICAL WIRE LIGHTING 12 AWG		L.F.			600	600	600	1800
655.0615		ELECTRICAL WIRE LIGHTING 10 AWG		L.F.	1800					1800
655.0700		LOOP DETECTOR LEAD IN CABLE		L.F.	1912		1500	1650	2540	7602
655.0800		LOOP DETECTOR WIRE		L.F.	1252		1870	1560	3070	7752
656.0200.01		ELECTRICAL SERVICE METER BREAKER PEDESTAL (STH 28 & CTH A)		L.S.					1	1
656.0200.02		ELECTRICAL SERVICE METER BREAKER PEDESTAL (IH 43 NB & STH 28)		L.S.				1		1
656.0200.03		ELECTRICAL SERVICE METER BREAKER PEDESTAL (IH 43 NB & STH 28)		L.S.			1			1
656.0200.04		ELECTRICAL SERVICE METER BREAKER PEDESTAL STH 28 & S TAYLOR DRIVE		L.S.	1					1
657.0100		PEDESTAL BASES		EACH	7		7	6	4	24
657.0255		TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE		EACH	9		1	1		11
657.0315		POLES TYPE 4		EACH	6		1	1		8

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

ITEM NUMBER		DESCRIPTION	UNIT	STH 28 & S. TAYLOR DR. QUANTITY	IH 43 & STH 28 RAMP GATES QUANTITY	IH 43 NB & STH 28 TRAFFIC SIGNAL INSTALLATION (S59-2006) QUANTITY	IH 43 SB & STH 28 TRAFFIC SIGNAL REVISION 3 (S-475) QUANTITY	STH 28 & CTH A TRAFFIC SIGNAL REVISION 1 (S-833) QUANTITY	TOTAL QUANTITY
657.0322		POLES TYPE 5-ALUMINUM	EACH	3					3
657.0420		TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT	EACH	3		4	2	4	13
657.0425		TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT	EACH	3		1	2		6
657.0430		TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT	EACH	1		2	2		5
657.0609		LUMINAIRE ARMS SIGNAL MEMBER 4 -INCH CLAMP 6-FT	EACH	10					10
657.0610		LUMINAIRE ARMS SIGNAL MEMBER 4 1/2-INCH CLAMP 6-FT	EACH	5					5
657.0709		LUMINAIRE ARMS TRUSS TYPE 4-INCH CLAMP 12-FT	EACH			1	1		2
657.1350		INSTALL POLES TYPE 10	EACH			1	1	1	3
657.1355		INSTALL POLES TYPE 12	EACH	4					4
657.1360		INSTALL POLES TYPE 13	EACH			2	2	3	7
657.1530		INSTALL MONOTUBE ARMS 30-FT	EACH			1	1	1	3
657.1540		INSTALL MONOTUBE ARMS 40-FT	EACH				2		2
657.1545		INSTALL MONOTUBE ARMS 45-FT	EACH	2		1		1	4
657.1550		INSTALL MONOTUBE ARMS 50-FT	EACH	1					1
657.1555		INSTALL MONOTUBE ARMS 55-FT	EACH	1		1		2	4
657.1812		INSTALL LUMINAIRE ARMS STEEL 12-FT	EACH			3	3	4	10
658.0110		TRAFFIC SIGNAL FACE 3-12" VERTICAL	EACH	22		12	10	17	61
658.0115		TRAFFIC SIGNAL FACE 4-12" VERTICAL	EACH	9		2	2		13
658.0215		BACKPLATES SIGNAL FACE 3 SECTION 12-INCH	EACH	22		12	10	17	61
658.0220		BACKPLATES SIGNAL FACE 4 SECTION 12-INCH	EACH	9		2	2		13
658.0416		PEDESTRIAN SIGNAL FACE 16-INCH	EACH	4		4	2	2	12
658.0500		PEDESTRIAN PUSH BUTTONS	EACH	4		3	2	2	11
658.0600		LED MODULES 12-INCH RED BALL	EACH	19		12	10	12	53
658.0605		LED MODULES 12-INCH YELLOW BALL	EACH	13		10	10	12	45
658.0610		LED MODULES 12-INCH GREEN BALL	EACH	13		10	10	12	45
658.0615		LED MODULES 12 - INCH RED ARROW	EACH	12		2	2	5	21
658.0620		LED MODULES 12-INCH YELLOW ARROW	EACH	27		6	4	5	42
658.0625		LED MODULES 12-INCH GREEN ARROW	EACH	18		4	2	5	29
658.0635		LED MODULES PEDESTRIAN COUNTDOWN TIME 16-INCH	EACH	4		4	2	2	12
658.5069.01		SIGNAL MOUNTING HARDWARE (STH 28 & CTH A)	L.S.					1	1
658.5069.02		SIGNAL MOUNTING HARDWARE (IH 43 SB & STH 28)	L.S.				1		1
658.5069.03		SIGNAL MOUNTING HARDWARE (IH 43 NB & STH 28)	L.S.			1			1
658.5069.04		SIGNAL MOUNTING HARDWARE STH 28 & S TAYLOR DRIVE	L.S.	1					1
659.1115		LUMINAIRES UTILITY LED-A	EACH		1				1
659.1125		LUMINAIRES UTILITY LED-C	EACH			4	4	4	12
661.0200.01		TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS CTH A & STH 28	L.S.					1	1
661.0200.02		TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS IH 43 SB & STH 28	L.S.				1		1
661.0200.03		TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS IH 43 NB & STH 28	L.S.			1			1
661.0200.04		TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS STH 28 & S TAYLOR DRIVE	L.S.	1					1
SPV.0060.10		TRAFFIC SIGNAL CONTROLLER AND CABINET STH 28 & TAYLOR DRIVE	EACH	1					1
SPV.0060.11		GPS DEVICE WITH GPS RECEIVER STH 28 & GREENWING DRIVE	EACH	1					1
SPV.0060.12		LUMINAIRES UTILITY TYPE 1	EACH	11					11
SPV.0060.13		LUMINAIRES UTILITY TYPE 2	EACH	4					4
SPV.0105.10		REMOVE TRAFFIC SIGNALS STH 28 & S TAYLOR DRIVE	L.S.	1					1
SPV.0105.11		EMERGENCY VEHICLE PREEMPTION SYSTEM STH 28 & S TAYLOR DRIVE	L.S.	1					1
SPV.0105.13		TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS TAYLOR DRIVE	L.S.	1					1
SPV.0105.14		TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS 32ND STREET	L.S.	1					1
SPV.0105.17		TEMPORARY INFRARED EVP SYSTEM STH 28 & S TAYLOR DRIVE	L.S.	1					1
SPV.0105.18		VEHICULAR VIDEO DETECTION SYSTEM STH 28 & S TAYLOR DRIVE	L.S.	1					1
SPV.0105.20		TEMPORARY TRAFFIC SIGNAL STH 28 & 32ND STREET	L.S.	1					1
SPV.0105.21		SALVAGE AND REINSTALL RAMP CLOSURE GATES IH 43 SB	L.S.		1				1
SPV.0105.22		SALVAGE AND REINSTALL RAMP CLOSURE GATES IH 43 NB	L.S.		1				1
SPV.0105.25		REMOVE TRAFFIC SIGNAL (STH 28 & CTH A)	L.S.					1	1
SPV.0105.26		REMOVE TRAFFIC SIGNAL (IH 43 SB & STH 28)	L.S.				1		1
SPV.0105.27		REMOVE TRAFFIC SIGNAL (IH 43 NB & STH 28)	L.S.			1			1

TRAFFIC SIGNAL QUANTITY SUMMARY SHEET 2 OF 2

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

3

3

TEMPORARY TRAFFIC SIGNALS

** LOCATION	661.0200.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
STH 28 & CTH A	1
TOTAL	1

LEGEND

*	ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE
**	FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 28 & CTH A
PAGE 1 OF 1

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TEMPORARY TRAFFIC SIGNALS

** LOCATION	661.0200.02 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
IH 43 SB & STH 28	1
TOTAL	1

LEGEND

*	ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE
**	FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

IH 43 SB & STH 28
PAGE 1 OF 1

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3

TEMPORARY TRAFFIC SIGNALS

** LOCATION	661.0200.03 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS L.S.
IH 43 NB & STH 28	1
TOTAL	1

LEGEND

*	ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE
**	FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

IH 43 NB & STH 28
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TEMPORARY TRAFFIC SIGNALS

** LOCATION	**SPV.0105.20** TEMPORARY TRAFFIC SIGNAL STH 28 & 32ND STREET L.S.	SPV.0105.14 TEMPORARY NON-INTRUSIVE VEHICLE DETECTION SYSTEM FOR INTERSECTIONS 32ND STREET L.S.
STH 28 & 32ND STREET	1	1
TOTAL	1	1

LEGEND

*	ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE
**	FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 28 & 32ND STREET
PAGE 1 OF 1

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* REMOVING CONCRETE BASES

BASE NO.	LOCATION	204.0195 REMOVING CONCRETE BASES EACH
G-59-001	294EB+53, 81' RT	1
G-59-002	298WB+88, 47' LT	1
G-59-003	299WB+55, 36' LT	1
SP2	299WB+15, 50' LT	1
	TOTAL	4

CONCRETE BASES

BASE NO.	LOCATION	* 654.0105 CONCRETE BASE TYPE 5 EACH	654.0220 CONCRETE CONTROL CABINET BASES TYPE 10 EACH
G-59-001	294EB+53, 81' RT	1	
G-59-002	246NE+02, 12' LT	1	
G-59-003	299WB+77, 59' LT	1	
SP2	299WB+68, 75' LT		1
	TOTAL	3	1

* LIGHTING EQUIPMENT

BASE NO.	659.1115 LUMINAIRES UTILITY LED-A EACH
G-59-003	1
TOTAL	1

3

* CONDUIT

LOC.	TO	LOC.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
PB4		G-59-002	6	
PB5		PB12		56
PB12		SP2	23	
1		G-59-003	37	
		TOTAL	66	56

RAMP GATES

** LOCATION	SPV.0105.21 SALVAGE AND REINSTALL RAMP CLOSURE GATES IH 43 SB LS	SPV.0105.22 SALVAGE AND REINSTALL RAMP CLOSURE GATES IH 43 NB LS
IH 43 SB & STH 28	1	
IH 43 NB & STH 28		1
TOTAL	1	1

* PULL BOXES

PULL BOX NO.	LOCATION	653.0140 PULL BOXES STEEL 24"x42" EACH
PB12	299WB+45, 76' LT	1
	TOTAL	1

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 28 & IH 43
PAGE 1 OF 1

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PLOT TIME: 3:11:03 PM
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WISDOT/CADDS SHEET 42

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* CONDUIT

LOC.	TO LOC.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
CB1	PB1		90
PB1	SB1	16	
PB1	PB2		40
PB2	SB2	14	
PB1	PB3		188
PB3	SB3	7	
PB3	PB4	246	
PB3	PB5		98
PB5	SB4	6	
PB5	PB6		66
PB6	PB7		30
PB7	SB5	11	
PB6	PB8	256	
PB6	PB9		178
PB9	SB6	6	
PB9	PB10		70
PB10	SB7	25	
PB10	PB11		184
PB10	PB104		267
PB11	SB8	35	
PB11	PB12	250	
PB11	PB13		41
PB13	SB9	7	
PB11	PB14		154
PB14	SB10	5	
PB14	SB11	27	
PB14	PB15		130
PB15	SB12	9	
PB15	PB16		58
PB15	PB103		133
PB16	SB13	17	
PB16	PB17		45
PB17	SB14	25	
PB17	SB15	35	
PB16	PB18	235	
PB16	PB19		190
PB18	PB##		66
PB19	SB16	19	
PB19	SB17	42	
PB19	SB18	105	
SB19	SB19	150	
PB19	PB20		124
PB20	SB20	27	
PB20	CB1		123
	TOTAL	1575	2275

* REMOVING CONCRETE BASES

SIGNAL BASE NO.	LOCATION	204.0195 REMOVING CONCRETE BASES EACH
CB1	302WB+94, 65' LT	1
SB1	303WB+18, 70' LT	1
SB2	303WB+57, 46' LT	1
SB3	304WB+10, 55' LT	1
SB4	304WB+46, 41' LT	1
SB5	304WB+54, 38' LT	1
SB6	304EB+76, 05' LT	1
SB7	304EB+19, 28' RT	1
SB8	304EB+15, 34' RT	1
SB9	303EB+50, 64' RT	1
SB10	10T+21, 27' LT	1
SB11	302EB+82, 75' RT	1
SB12	303EB+24, 34' RT	1
SB13	303WB+07, 11' RT	1
SB14	302WB+75, 06' RT	1
SB15	302WB+93, 55' LT	1
	TOTAL	16

PULL BOXES

PULL BOX NO.	** LOCATION	653.0135 PULL BOXES STEEL 24"x36" EACH	* 653.0140 PULL BOXES STEEL 24"x42" EACH
PB1	303WB+21, 74' LT		1
PB2	303WB+60, 67' LT		1
PB3	304WB+14, 81' LT		1
PB4	15T+20, 12' LT	1	
PB5	304WB+63, 84' LT		1
PB6	304WB+89, 64' LT		1
PB7	304WB+74, 38' LT		1
PB8	307WB+46, 52' LT	1	
PB9	304EB+93, 05' LT		1
PB10	304EB+93, 31' RT		1
PB11	304EB+18, 83' RT		1
PB12	8T+39, 33' RT	1	
PB13	304EB+12, 33' RT		1
PB14	303EB+43, 86' RT		1
PB15	302EB+78, 88' RT		1
PB16	302EB+60, 65' RT		1
PB17	302EB+88, 31' RT		1
PB18	300EB+31, 42' RT	1	
PB19	302WB+58, 09' RT		1
PB20	302WB+55, 53' LT		1
	TOTAL	4	16

* REMOVING PULL BOXES

PULL BOX NO.	LOCATION	653.0905 REMOVING PULL BOXES EACH
PB1	303WB+05, 65' LT	1
PB2	303WB+33, 83' LT	1
PB3	13T+67, 75' LT	1
PB4	14T+90, 74' LT	1
PB5	303WB+58, 54' LT	1
PB6	304WB+12, 62' LT	1
PB7	304WB+88, 65' LT	1
PB8	304WB+50, 39' LT	1
PB9	305WB+71, 46' LT	1
PB10	307WB+01, 45' LT	1
PB11	304EB+79, 05' LT	1
PB12	304EB+81, 30, RT	1
PB13	304EB+39, 49' RT	1
PB14	304EB+16, 31' RT	1
PB15	304EB+23, 62' RT	1
PB16	304EB+09, 101' RT	1
PB17	10T+04, 42' RT	1
PB18	9T+11, 41' RT	1
PB19	303EB+41, 94' RT	1
PB20	303EB+48, 69' RT	1
PB21	302EB+87, 88' RT	1
PB22	302EB+67, 66' RT	1
PB23	302EB+76, 67' RT	1
PB24	303EB+25, 37' RT	1
PB25	302EB+03, 63' RT	1
PB26	300EB+69, 60' RT	1
PB27	302WB+78, 11' RT	1
PB28	303EB+02, 22' LT	1
PB29	302WB+80, 50' LT	1
EXPB1	301EB+07, 28' LT	1
	TOTAL	30

FOR INFORMATION ONLY

STATE FURNISHED TRAFFIC SIGNAL EQUIPMENT

SIG. BASE NO.	POLES TYPE 12 EACH	MONOTUBE ARMS 45-FT EACH	MONOTUBE ARMS 50-FT EACH	MONOTUBE ARMS 55-FT EACH
SB4	1	1		
SB7	1			1
SB12	1	1		
SB20	1		1	
TOTAL	4	2	1	1

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 28 & S. TAYLOR DR.
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TRAFFIC SIGNAL CABLE AND ELECTRICAL WIRE

LOC.	TO	LOC.	* 655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	* 655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	* 655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.	* 655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG L.F.
CB1		SB1			73			73	
CB1		SB2			127				
CB1		SB3			172		172		
CB1		SB4			236				
CB1		SB5			334				
CB1		SB6			383				
CB1		SB7			458				
CB1		SB09				533			
CB1		SB10			384				
CB1		SB11				406			
CB1		SB12			308				
CB1		SB13			272				
CB1		SB14			338				
CB1		SB15				350			
CB1		SB16			165				
CB1		SB17				187	187		
CB1		SB20			96			96	
PB1		SB1						32	
PB2		SB2						30	
PB3		SB3						22	
PB5		SB4						22	
PB6		SB4						57	
PB7		SB5						27	
PB9		SB6						22	
PB10		SB7						41	
PB11		SB8						51	
PB13		SB9						23	
PB14		SB10						21	
PB15		SB12						25	
PB16		SB13						33	
PB17		SB14						40	
PB19		SB16						42	
PB20		SB20						43	
SB1		SB2						110	
SB2		SB3						208	
SB3		SB4						105	
SB4		SB5						135	
SB5		SB6						191	
SB6		SB7						106	
SB7		SB9						220	
SB9		SB10						184	
SB10		SB11						57	
SB11		SB12						141	
SB12		SB13						96	
SB13		SB14						126	

TRAFFIC SIGNAL CABLE AND ELECTRICAL WIRE (CONTINUED ON NEXT SHEET)

LOC.	TO	LOC.	* 655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	* 655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	* 655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0270 CABLE TRAFFIC SIGNAL 15-14 AWG L.F.	655.0320 CABLE TYPE UF 2-10 AWG GROUNDED L.F.	* 655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG L.F.
SB14		SB15						85	
SB15		SB16						249	
SB16		SB17						86	
SB17		SB20						171	
SB3		SB5					198		
SB5		SB6					191		
SB6		SB8					223		
SB17		SB18					172		
SB18		SB19					160		
SB17		SB13					194		
SB13		SB11					194		
SB1		HEAD 26	19						
SB2		HEAD 21	19						
SB2		HEAD 23	19						
SB3		HEAD 22	19						
SB3		HEAD 29		22					
SB3		LUMINAIRE							240
SB4		HEAD 18	66						
SB4		HEAD 19	54						
SB5		HEAD 10	19						
SB5		LUMINAIRE							120
SB6		HEAD 14		22					
SB6		LUMINAIRE							240
SB7		HEAD 2	56						
SB7		HEAD 3	44						
SB7		HEAD 8	76						
SB7		HEAD 9	65						
SB8		LUMINAIRE							120
SB9		HEAD 17	21						
SB9		HEAD 30		22					
SB9		HEAD 33	15						
SB10		HEAD 6		22					
SB11		HEAD 5		22					
SB11		HEAD 20	19						
SB11		HEAD 31		22					
SB11		LUMINAIRE							240
SB12		HEAD 24	68						
SB12		HEAD 25	57						
SB13		HEAD 4		22					

LEGEND

*	ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE
**	FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 28 & S. TAYLOR DR.
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WISDOT/CADDS SHEET 42

TRAFFIC SIGNAL FACES

SIG. HEAD NO.	SIG. BASE NO.	* 658.0110 TRAFFIC SIGNAL FACE 3-12" VERTICAL EACH	* 658.0115 TRAFFIC SIGNAL FACE 4-12" VERTICAL EACH	* 658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	* 658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	* 658.0600 LED MODULES 12-INCH RED BALL EACH	* 658.0605 LED MODULES 12-INCH YELLOW BALL EACH	* 658.0610 LED MODULES 12-INCH GREEN BALL EACH	* 658.0615 LED MODULES 12-INCH RED ARROW EACH	* 658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	* 658.0625 LED MODULES 12-INCH GREEN ARROW EACH	* 658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
1	SB15	1		1			1	1	1				
2	SB7	1		1			1	1	1				
3	SB7	1		1			1	1	1				
4	SB13		1		1		1				2	1	
5	SB11		1		1		1				2	1	
6	SB10		1		1		1				2	1	
7	SB17	1		1						1	1	1	
8	SB7	1		1						1	1	1	
9	SB7	1		1						1	1	1	
10	SB5	1		1			1	1	1				
11	SB20	1		1			1	1	1				
12	SB20	1		1			1	1	1				
13	SB20	1		1			1	1	1				
14	SB3		1		1					1	2	1	
15	SB15		1		1					1	2	1	
16	SB17		1		1					1	2	1	
17	SB9	1		1			1	1	1				
18	SB4	1		1			1	1	1				
19	SB4	1		1			1	1	1				
20	SB11	1		1						1	1	1	
21	SB2	1		1						1	1	1	
22	SB3	1		1						1	1	1	
23	SB2	1		1			1	1	1				
24	SB12	1		1			1	1	1				
25	SB12	1		1			1	1	1				
26	SB1	1		1			1				1	1	
27	SB17	1		1			1				1	1	
28	SB16	1		1			1				1	1	
29	SB6		1		1					1	2	1	
30	SB9		1		1					1	2	1	
31	SB11		1		1					1	2	1	
32	SB15					1							1
33	SB9					1							1
34	SB14					1							1
35	SB13					1							1
TOTAL		22	9	22	9	4	19	13	13	12	27	18	4

VIDEO DETECTION SYSTEM

** LOCATION	SPV.0105.18 VEHICULAR VIDEO DETECTION SYSTEM STH 28 & S TAYLOR DRIVE L.S.
STH 28 & S TAYLOR DRIVE	1
TOTAL	1

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 28 & S. TAYLOR DR.
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PROJECT NUMBER: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	MISCELLANEOUS QUANTITIES	SHEET 373	E

TRAFFIC SIGNAL EQUIPMENT

SIG. BASE NO.	* 657.0100 PEDESTAL BASES EACH	* 657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	* 657.0315 POLES TYPE 4 EACH	657.0322 POLES TYPE 5-ALUMINUM EACH	* 657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10-FT EACH	* 657.0609 LUMINAIRE ARMS SINGLE MEMBER 4-INCH CLAMP 6-FT EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	657.1355 INSTALL POLES TYPE 12 EACH	* 657.1545 INSTALL MONOTUBE ARMS 45-FT EACH	657.1550 INSTALL MONOTUBE ARMS 50-FT EACH	* 657.1555 INSTALL MONOTUBE ARMS 55-FT EACH	* 658.0500 PEDESTRIAN PUSH BUTTONS EACH	SPV.0060.12 LUMINAIRES UTILITY TYPE 1 EACH	SPV.0060.13 LUMINAIRES UTILITY TYPE 2 EACH
SB1	1				1											
SB2	1				1											
SB3		1	1					2							2	
SB4										1	1					
SB5		1	1					1							1	
SB6		1	1					2							2	
SB7										1			1			
SB8		1		1					1						1	
SB9	1					1								1		
SB10	1					1										
SB11		1	1					2							2	
SB12										1	1					
SB13		1	1					1						1	1	
SB14	1						1							1		
SB15	1					1								1		
SB16	1				1											
SB17		1	1					2								2
SB18		1							2							2
SB19		1							2						2	
SB20										1		1				
TOTAL	7	9	6	3	3	3	1	10	5	4	2	1	1	4	11	4

REMOVE TRAFFIC SIGNALS

** LOCATION	SPV.0105.10 REMOVE TRAFFIC SIGNALS STH 28 & S TAYLOR DRIVE L.S.
STH 28 & S TAYLOR DRIVE	1
TOTAL	1

SIGNAL MOUNTING HARDWARE

** LOCATION	658.5069.04 SIGNAL MOUNTING HARDWARE L.S.
STH 28 & S TAYLOR DRIVI	1
TOTAL	1

EMERGENCY VEHICLE PREEMPTION

** LOCATION	SPV.0105.11 EMERGENCY VEHICLE PREEMPTION SYSTEM STH 28 & S TAYLOR DRIVE L.S.
STH 28 & S TAYLOR DRIVE	1
TOTAL	1

ELECTRICAL SERVICE METER BREAKER PEDESTAL

CABINET NO.	** LOCATION	656.0200.04 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
CB1	302WB+92, 70' LT	1
	TOTAL	1

LEGEND

*	ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE
**	FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 28 & S. TAYLOR DR.
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INSTALL CONDUIT INTO EXISTING ITEM

PULL BOX NO.	** LOCATION	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH
PB103	9T+5, 67' LT	1
PB104	307EB+62, 27' RT	1
	TOTAL	2

* TRAFFIC DETECTOR LOOPS

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 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
21	PB8	307WB+47, 17' LT.	6 X 30	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSEWITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	469	300
41	PB4	15T+20, 33' LT.	6 X 20	3	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	76	377	240
61	PB18	300EB+30, 12' RT.	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSEWITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	440	388
81	PB12	8T+38, 10' RT.	6 X 20	4	CONCRETE	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	94	626	324
						TOTAL	360	1912	1252

LEGEND

* ADDITIONAL ITEMS FOR QUANTITIES LISTED ELSEWHERE

** FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

ALL ITEMS ON THIS SHEET ARE CATEGORY 0010

STH 28 & S. TAYLOR DR.
PAGE 6 OF 6

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WISDOT/CADDS SHEET 42

Conduit Rigid Nonmetallic Schedule 40

Location				
STH 28 & CTH A (S-833)		652.0210	652.0225	652.0235
		1-Inch	2-Inch	3-Inch
FROM	TO	LF	LF	LF
CB1	PB1			30
CB1	PB1			30
PB1	SB1		10	
PB1	PB12	140		
PB12	PB13	100		
PB1	PB2			70
PB1	PB2			70
PB2	PB3			50
PB2	PB3			50
PB3	SB2			30
PB3	PB4			50
PB3	PB4			50
PB4	SB3		10	
PB4	PB5			110
PB4	PB5			110
PB5	SB4			20
PB5	PB6			40
PB5	PB6			40
PB6	SB5		10	
PB6	DRAIN		20	
PB6	PB7			70
PB6	PB7			70
PB7	PB14	140		
PB14	PB15	130		
PB7	PB8			50
PB7	PB8			50
PB8	SB6			10
PB8	DRAIN		20	
PB8	PB9			40
PB8	PB9			40
PB9	PB10			20
PB9	PB10			20
PB10	SB7		10	
PB10	PB11			90
PB10	PB11			90
PB11	SB8			20
PB11	CB1			30
PB11	CB1			30
	TOTALS	510	80	1,380

Pull Boxes Steel

	653.0105	653.0140
	12x24-Inch	24x42-Inch
LOCATION	EACH	EACH
STH 28 & CTH A (S-833)	16	11
TOTALS	16	11

Removing Pull Box

	653.0905
LOCATION	EACH
STH 28 & CTH A (S-833)	16
TOTAL	16

Concrete Bases

				654.0217
				Control
	654.0101	654.0110	654.0113	Cabinet
	Type 1	Type 10	Type 13	Type 9
				Special
LOCATION	EACH	EACH	EACH	EACH
STH 28 & CTH A (S-833)	4	1	3	1
TOTALS	4	1	3	1

Removing Concrete Bases

	204.0195
LOCATION	EACH
STH 28 & CTH A (S-833)	13
TOTAL	13

Loop Detectors

			652.0800	655.0700	
			Conduit	Lead In	655.0800
	LOOP	# OF		Cable	Wire
LOCATION	NO.	TURNS	LF	LF	LF
STH 28 & CTH A (S-833)	11	3	90	250	270
	21	3	80	300	230
	22	3	70	200	200
	41	2	100	160	220
	42	2	90	160	250
	43	2	120	50	260
	51	2	90	120	220
	52	2	90	120	200
	61	4	70	520	260
	81	3	100	220	280
	82	3	90	220	320
	83	3	90	220	360
		TOTALS	1,080	2,540	3,070

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

3

TRAFFIC SIGNALS

	656.0200		657.0420					
	Electrical Service							
	Meter Breaker	657.0100	Traffic	657.1350	657.1360	657.1530	657.1545	657.1555
	Pedestal		Signal					
	(STH 28 & CTH A)	Pedestal	Standard	Install	Install	Install	Install	Install
		Bases	Aluminum	Poles	Poles	Monotube	Monotube	Monotube
	LS		13-FT	Type 10	Type 13	Arms 30-FT	Arms 45-FT	Arms 55-FT
LOCATION		EACH	EACH	EACH	EACH	EACH	EACH	EACH
STH 28 & CTH A (S-833)	1	4	4	1	3	1	1	2
TOTALS	1	4	4	1	3	1	1	2

TRAFFIC SIGNALS

	658.0110	658.0416	658.0500	658.0600	658.0605	658.0610		
	Traffic							
	Signal	Pedestrian	Pedestrian	LED Modules	LED Modules	LED Modules		
	Face	Signal Face	Push	12-Inch	12-Inch	12-Inch		
	3-12 Inch	16-Inch	Buttons	Red Ball	Yellow Ball	Green Ball		
	Vertical							
LOCATION	EACH	EACH	EACH	EACH	EACH	EACH		
STH 28 & CTH A (S-833)	17	2	2	12	12	12		
TOTALS	17	2	2	12	12	12		

TRAFFIC SIGNALS

	658.0615	658.0620	658.0625	658.0635	658.5069	SPV.0105.25
					Signal	Remove
	LED Modules	LED Modules	LED Modules	LED Modules	Mounting	Traffic
	12-Inch	12-Inch	12-Inch	Pedestrian Countdown	Hardware	Signal
	Red Arrow	Yellow Arrow	Green Arrow	Timer 16-Inch	(STH 28 & CTH A)	(STH 28 & CTH A)
LOCATION	EACH	EACH	EACH	EACH	LS	LS
STH 28 & CTH A (S-833)	5	5	5	2	1	1
TOTALS	5	5	5	2	1	1

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

TRAFFIC SIGNAL CABLE

STH 28 & CTH A (S-833)	655.0230	655.0240	655.0260		655.0230 Base to Head	655.0240 Base to Head	658.0215 Backplates	658.0220 Backplates
	5-14 AWG	7-14 AWG	12-14 AWG	HEAD NO.	5-14 AWG	7-14 AWG	Signal Face 3 Section 12-Inch	Signal Face 4 Section 12-Inch
From CB1 to	LF	LF	LF		LF	LF	EACH	EACH
SB1			70	6	15		1	
				7		15	1	
SB2			230	8		80	1	
				9	70		1	
				10	60		1	
SB3	270			17	15		1	
SB3	270			19	10			
SB4	400			12	70		1	
				13	60		1	
SB5			400	1		15	1	
				11	15		1	
SB5	400			18	10			
SB6			260	2		80	1	
				3		70	1	
				4	60		1	
				5	50		1	
SB7			180	14	15		1	
				15	15		1	
SB8	90			16	50		1	
Sub Total	1,430	0	1,140		515	260	17	0
TOTALS	1,945	260	1,140				17	0

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

Electrical Wire Traffic Signals 10 AWG		
LOCATION		655.0515
STH 28 & CTH A (S-833)		
		(Equipment Grounding Conductor)
		(Green)
		LF
FROM	TO	
CB1	SB1	70
SB1	PB1	40
SB1	SB2	220
SB2	PB2	120
SB2	PB3	60
SB2	SB3	140
SB3	PB4	40
SB3	SB4	190
SB4	PB5	50
SB4	SB5	120
SB5	PB6	40
SB5	SB6	200
SB6	PB7	100
SB6	PB8	40
SB6	SB7	140
SB7	PB9	70
SB7	PB10	40
SB7	SB8	170
SB8	PB11	50
SB8	CB1	90
	TOTAL	1,990

Signal Lighting Cable		
		655.0305
LOCATION		Type UF
STH 28 & CTH A (S-833)		2-12 AWG
		Grounded
FROM	TO	LF
CB1	SB2	230
CB1	SB4	400
CB1	SB6	260
CB1	SB8	90
	TOTAL	980

Electrical Wire Lighting 12 AWG		
LOCATION		
STH 28 & CTH A (S-833)		
120 Volt System		655.0610
FROM	TO	LF
SB2	Luminaire	150
SB4	Luminaire	150
SB6	Luminaire	150
SB8	Luminaire	150
	TOTAL	600

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

Conduit Rigid Nonmetallic Schedule 40

Location				
IH 43 NB & STH 28 (S59-2006)		652.0210	652.0225	652.0235
		1-Inch	2-Inch	3-Inch
FROM	TO	LF	LF	LF
CB1	PB1			20
CB1	PB1			20
PB1	PB12	130		
PB12	PB13	130		
PB1	SB1		20	
PB1	PB2			50
PB1	PB2			50
PB2	PB3			60
PB2	PB3			60
PB3	SB2			10
PB3	PB4			60
PB3	PB4			60
PB4	DRAIN		20	
PB4	SB3		10	
PB4	PB5			60
PB4	PB5			60
PB5	SB4			10
PB5	SB6			70
PB5	PB6			70
PB6	SB5		10	
PB6	PB7			60
PB6	PB7			60
PB7	PB14	110		
PB14	PB15	110		
PB7	SB7		10	
PB7	SB6		10	
PB7	PB8			80
PB7	PB8			80
PB8	SB8			20
PB8	PB9			50
PB8	PB9			50
PB9	SB9		20	
PB9	PB10			60
PB9	PB10			60
PB10	SB10		10	
PB10	PB11			30
PB10	PB11			30
PB11	SB11		10	
PB11	DRAIN		20	
PB11	CB1			40
PB11	CB1			40
	TOTALS	480	140	1,320

Pull Boxes Steel

	653.0105	653.0140
	12x24-Inch	24x42-Inch
LOCATION	EACH	EACH
IH 43 NB & STH 28 (S59-2006)	13	11
TOTALS	13	11

Removing Pull Box

	653.0905
LOCATION	EACH
IH 43 NB & STH 28 (S59-2006)	18
TOTAL	18

Concrete Bases

					654.0217
					Control
	654.0101	654.0102	654.0110	654.0113	Cabinet
	Type 1	Type 2	Type 10	Type 13	Type 9
					Special
LOCATION	EACH	EACH	EACH	EACH	EACH
IH 43 NB & STH 28 (S59-2006)	7	1	1	2	1
TOTALS	7	1	1	2	1

Removing Concrete Bases

	204.0195
LOCATION	EACH
IH 43 NB & STH 28 (S59-2006)	14
TOTAL	14

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

STH 28 & IH 43 NB SIGNAL

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

3

3

Loop Detectors

LOCATION	LOOP NO.	# OF TURNS	652.0800 Conduit LF	655.0700 Lead In Cable LF	655.0800 Wire LF
IH 43 NB & STH 28 (S59-2006)	11	2	90	90	200
	21	4	70	490	260
	41	2	90	150	190
	42	2	85	150	220
	43	2	85	90	220
	44	2	90	90	190
	45	2	85	90	170
	46	2	85	60	170
	61	4	70	290	250
		TOTALS	750	1,500	1,870

TRAFFIC SIGNALS

LOCATION	656.0200 Electrical Service Meter Breaker Pedestal (IH 43 NB & STH 28) LS	657.0100 Bases EACH	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle EACH	657.0315 Poles Type 4 EACH	657.0420 Traffic Signal Standard Aluminum 13-FT EACH	657.0425 Traffic Signal Standard Aluminum 15-FT EACH	657.0430 Traffic Signal Standard Aluminum 10-FT EACH	657.1350 Install Poles Type 10 EACH	657.1360 Install Poles Type 13 EACH
IH 43 NB & STH 28 (S59-200	1	7	1	1	4	1	2	1	2
TOTALS	1	7	1	1	4	1	2	1	2

TRAFFIC SIGNALS

LOCATION	657.1530 Install Monotube Arms 30-FT EACH	657.1545 Install Monotube Arms 45-FT EACH	657.1555 Install Monotube Arms 55-FT EACH	658.0110 Traffic Signal Face 3-12 Inch Vertical EACH	658.0115 Traffic Signal Face 4-12 Inch Vertical EACH	658.0416 Pedestrian Signal Face 16-Inch EACH	658.0500 Pedestrian Push Buttons EACH	658.0600 LED Modules 12-Inch Red Ball EACH
IH 43 NB & STH 28 (S59-200	1	1	1	12	2	4	3	12
TOTALS	1	1	1	12	2	4	3	12

TRAFFIC SIGNALS

LOCATION	658.0605 LED Modules 12-Inch Yellow Ball EACH	658.0610 LED Modules 12-Inch Green Ball EACH	658.0615 LED Modules 12-Inch Red Arrow EACH	658.0620 LED Modules 12-Inch Yellow Arrow EACH	658.0625 LED Modules 12-Inch Green Arrow EACH	658.0635 LED Modules Pedestrian Countdown Timer 16-Inch EACH	658.5069 Signal Mounting Hardware (IH 43 NB & STH 28) LS	SPV.0105.27 Remove Traffic Signal (IH 43 NB & STH 28) LS
IH 43 NB & STH 28 (S59-200	10	10	2	6	4	4	1	1
TOTALS	10	10	2	6	4	4	1	1

3

TRAFFIC SIGNAL CABLE

IH 43 NB & STH 28 (S59-2006)	655.0230	655.0240	655.0260		655.0230 Base to Head	655.0240 Base to Head	658.0215 Backplates	658.0220 Backplates
	5-14 AWG	7-14 AWG	12-14 AWG	HEAD NO.	5-14 AWG	7-14 AWG	Signal Face 3 Section 12-Inch	Signal Face 4 Section 12-Inch
From CB1 to	LF	LF	LF		LF	LF	EACH	EACH
SB1	70			9	15		1	
SB2	200			1	70		1	
				2	60		1	
				3	50		1	
SB3	260			10	15		1	
SB4	330			11	60		1	
SB4			330	4	20		1	
				5		20		1
SB5		410		6		20		1
SB6	340			12	15		1	
SB7	340			13	15		1	
SB8	260			7	80		1	
				8	70		1	
SB9	200			18	10			
SB10	120			17	10			
SB10	120			14	15		1	
SB10	120			16	10			
SB11	80			15	10			
Sub Total	2,440	410	330		525	40	12	2
TOTALS	2,965	450	330				12	2

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

Electrical Wire Traffic Signals 10 AWG

LOCATION		655.0515
IH 43 NB & STH 28 (S59-2006)		
		(Equipment Grounding Conductor)
		(Green)
		LF
FROM	TO	
CB1	SB1	70
SB1	PB1	50
SB1	SB2	200
SB2	PB2	110
SB2	PB3	40
SB2	SB3	120
SB3	PB4	40
SB3	SB4	120
SB4	PB5	40
SB4	SB5	130
SB5	PB6	40
SB5	SB6	120
SB6	PB7	40
SB6	SB7	50
SB7	SB8	150
SB8	PB8	50
SB8	SB9	130
SB9	PB9	50
SB9	SB10	130
SB10	PB10	40
SB10	SB11	90
SB11	PB11	40
SB11	CB1	80
	TOTAL	1,930

Lighting Summary

	657.0709	657.1812	659.1125
	Luminaire		
	Arms	Install	Luminaires
	Truss Type	Luminaire	Utility
	4-Inch Clamp	Arms	LED-C
	12-FT	Steel 12-FT	
LOCATION	EACH	EACH	EACH
IH 43 NB & STH 28 (S59-2006)	1	3	4
TOTALS	1	3	4

Signal Lighting Cable

		655.0305
LOCATION		Type UF
IH 43 NB & STH 28 (S59-2006)		2-12 AWG
		Grounded
FROM	TO	LF
CB1	SB1	70
CB1	SB2	200
CB1	SB4	330
CB1	SB8	260
	TOTAL	860

Electrical Wire Lighting 12 AWG

LOCATION		
IH 43 NB & STH 28 (S59-2006)		
120 Volt System		655.0610
FROM	TO	LF
SB1	Luminaire	150
SB2	Luminaire	150
SB4	Luminaire	150
SB8	Luminaire	150
	TOTAL	600

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

3

Conduit Rigid Nonmetallic Schedule 40

Location				
IH 43 SB & STH 28 (S-475)	652.0210	652.0225	652.0235	
	1-Inch	2-Inch	3-Inch	
FROM	TO	LF	LF	LF
CB1	PB1			20
CB1	PB1			20
PB1	SB1		30	
PB1	PB12	130		
PB12	PB13	130		
PB1	PB2			60
PB1	PB2			60
PB2	PB3			60
PB2	PB3			60
PB3	SB2			30
PB3	PB4			60
PB3	PB4			60
PB4	SB3		20	
PB4	SB4		20	
PB4	PB5			70
PB4	PB5			70
PB4	PB5			70
PB5	SB5			20
PB5	SB6		10	
PB5	PB6			40
PB5	PB6			40
PB6	DRAIN		20	
PB6	PB14	140		
PB14	PB15	100		
PB6	SB7		10	
PB6	PB7			70
PB6	PB7			70
PB7	SB8		40	
PB7	PB8			70
PB7	PB8			70
PB8	SB9			40
PB8	DRAIN		20	
PB8	PB9			30
PB8	PB9			30
PB9	PB10			40
PB9	PB10			40
PB10	SB10		10	
PB10	PB11			40
PB10	PB11			40
PB11	CB1			50
PB11	CB1			50
TOTALS		500	180	1,310

Pull Boxes Steel

	653.0105	653.0140
	12x24-Inch	24x42-Inch
LOCATION	EACH	EACH
IH 43 SB & STH 28 (S-475)	11	11
TOTALS	11	11

Removing Pull Box

	653.0905
LOCATION	EACH
IH 43 SB & STH 28 (S-475)	17
TOTAL	17

Concrete Bases

					654.0217
					Control
	654.0101	654.0102	654.0110	654.0113	Cabinet
	Type 1	Type 2	Type 10	Type 13	Type 9
					Special
LOCATION	EACH	EACH	EACH	EACH	EACH
IH 43 SB & STH 28 (S-475)	6	1	1	2	1
TOTALS	6	1	1	2	1

Removing Concrete Bases

	204.0195
LOCATION	EACH
IH 43 SB & STH 28 (S-475)	13
TOTAL	13

Loop Detectors

			652.0800	655.0700	
			Conduit	Lead In	655.0800
	LOOP	# OF		Cable	Wire
LOCATION	NO.	TURNS	LF	LF	LF
IH 43 SB & STH 28 (S-475)	21	3	70	280	200
	41	2	90	120	200
	42	2	90	120	200
	43	2	90	70	200
	51	2	90	100	200
	61	4	80	530	280
	62	4	80	430	280
		TOTALS	590	1,650	1,560

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

3

TRAFFIC SIGNALS

	656.0200		657.0255		657.0420	657.0425	657.0430	
	Electrical Service		Transformer					
	Meter Breaker	657.0100	Bases	657.0315	Traffic	Traffic	Traffic	657.1350
	Pedestal		Breakaway		Signal	Signal	Signal	
	(IH 43 SB & STH 28)	Pedestal	11 1/2-Inch	Poles	Standard	Standard	Standard	Install
		Bases	Bolt Circle	Type 4	Aluminum	Aluminum	Aluminum	Poles
	LS				13-FT	15-FT	10-FT	Type 10
LOCATION		EACH	EACH	EACH	EACH	EACH	EACH	EACH
IH 43 SB & STH 28 (S-475)	1	6	1	1	2	2	2	1
TOTALS	1	6	1	1	2	2	2	1

TRAFFIC SIGNALS

				658.0110	658.0115	658.0416	658.0500	658.0600
	657.1360	657.1530	657.1540	Traffic	Traffic			
				Signal	Signal	Pedestrian	Pedestrian	LED Modules
	Install	Install	Install	Face	Face	Signal Face	Push	12-Inch
	Poles	Monotube	Monotube	3-12 Inch	4-12 Inch	16-Inch	Buttons	Red Ball
	Type 13	Arms 30-FT	Arms 40-FT	Vertical	Vertical			
LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
IH 43 SB & STH 28 (S-475)	2	1	2	10	2	2	2	10
TOTALS	2	1	2	10	2	2	2	10

TRAFFIC SIGNALS

	658.0605	658.0610	658.0615	658.0620	658.0625	658.0635	658.5069	SPV.0105.26
							Signal	Remove
	LED Modules	LED Modules	LED Modules	LED Modules	LED Modules	LED Modules	Mounting	Traffic
	12-Inch	12-Inch	12-Inch	12-Inch	12-Inch	Pedestrian Countdown	Hardware	Signal
	Yellow Ball	Green Ball	Red Arrow	Yellow Arrow	Green Arrow	Timer 16-Inch	(IH 43 SB & STH 28)	(IH 43 SB & STH 28)
LOCATION	EACH	EACH	EACH	EACH	EACH	EACH	LS	LS
IH 43 SB & STH 28 (S-475)	10	10	2	4	2	2	1	1
TOTALS	10	10	2	4	2	2	1	1

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

TRAFFIC SIGNAL CABLE

IH 43 SB & STH 28 (S-475)	655.0230	655.0240	655.0260		655.0230	655.0240	658.0215	658.0220
					Base to Head	Base to Head	Backplates	Backplates
	5-14	7-14	12-14	HEAD	5-14	7-14	Signal Face	Signal Face
	AWG	AWG	AWG	NO.	AWG	AWG	3 Section	4 Section
							12-Inch	12-Inch
From CB1 to	LF	LF	LF		LF	LF	EACH	EACH
SB1	80			5	15		1	
SB2	230			6	70		1	
				7	60		1	
				8	50		1	
SB3	280			10	15		1	
SB4	280			14	10			
SB5	360			11	60		1	
SB6	350			13	10			
SB7			390	1		20		1
				9	20		1	
SB8		340		2		20		1
SB9	270			3	70		1	
				4	60		1	
SB10	140			12	15		1	
Sub Total	1,990	340	390		455	40	10	2
TOTALS	2,445	380	390				10	2

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

Electrical Wire Traffic Signals 10 AWG

LOCATION		655.0515
IH 43 SB & STH 28 (S-475)		
		(Equipment Grounding Conductor)
		(Green)
		LF
FROM	TO	
CB1	SB1	80
SB1	PB1	60
SB1	SB2	230
SB2	PB2	130
SB2	PB3	60
SB2	SB3	150
SB3	PB4	50
SB3	SB4	70
SB4	SB5	160
SB5	PB5	40
SB5	SB6	60
SB6	SB7	100
SB7	PB6	40
SB7	SB8	160
SB8	PB7	70
SB8	SB9	200
SB9	PB8	70
SB9	PB9	110
SB9	SB10	180
SB10	PB10	40
SB10	CB1	140
CB1	PB11	80
	TOTAL	2,280

Lighting Summary

	657.0709	657.1812	659.1125
	Luminaire		
	Arms	Install	Luminaires
	Truss Type	Luminaire	Utility
	4-Inch Clamp	Arms	LED-C
	12-FT	Steel 12-FT	
LOCATION	EACH	EACH	EACH
IH 43 SB & STH 28 (S-475)	1	3	4
TOTALS	1	3	4

Signal Lighting Cable

		655.0305
LOCATION		Type UF
IH 43 SB & STH 28 (S-475)		2-12 AWG
		Grounded
FROM	TO	LF
CB1	SB1	80
CB1	SB2	230
CB1	SB5	360
CB1	SB9	270
	TOTAL	940

Electrical Wire Lighting 12 AWG

LOCATION		
IH 43 SB & STH 28 (S-475)		
120 Volt System		655.0610
FROM	TO	LF
SB1	Luminaire	150
SB2	Luminaire	150
SB5	Luminaire	150
SB9	Luminaire	150
	TOTAL	600

UNLESS OTHERWISE NOTED
ALL ITEMS IN CATEGORY 0010

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 4640-05-21

SHEBOYGAN FALLS - SHEBOYGAN
PRANGE ROAD - TAYLOR DRIVE

STH 28
SHEBOYGAN COUNTY



NOTES:

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, SHEBOYGAN COUNTY, NAD 83 (91 ADJUSTMENT) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES, GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL RIGHT OF WAY LINES DEPICTED IN NON-AQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT OF WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS. OTHER RECORDED DOCUMENTS OR FROM CENTERLINE OF EXISTING PAVEMENT.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" I.D. X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT

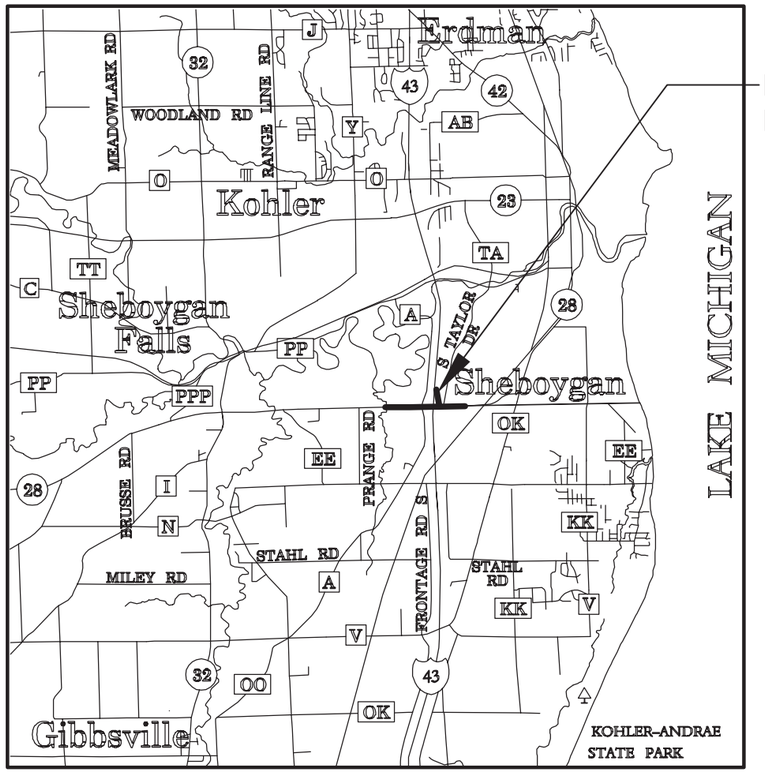
DISTANCES SHOWN FROM THE RIGHT-OF-WAY LINE TO BUILDINGS ARE APPROXIMATE ONLY.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING REFERENCES:
EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 28 WAS ESTABLISHED FROM PREVIOUS PROJECT I.D.'S:
S 0604 (5), 1221-1-22, 4010-3-21 & 4010-3-22.
EXISTING HIGHWAY RIGHT-OF-WAY FOR IH-43 WAS ESTABLISHED FROM PREVIOUS PROJECT I.D.'S:
T01-3 (18) / 1452-1-21 & 1221-1-22.
EXISTING HIGHWAY RIGHT-OF-WAY FOR TAYLOR DRIVE WAS ESTABLISHED BY THE SUBDIVISION PLAT OF SHEBOYGAN INDUSTRIAL PARK NO. 1.

A **TEMPORARY LIMITED EASEMENT** (T.L.E.) 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 T.L.E.'S EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.



R-22-E | R-23-E

PROJECT LOCATION

N

T-15-N

T-14-N

LAYOUT
SCALE 0 1 MI.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	SECTION LINE	S/L
CORNER	COR.	STATION	STA.
DOCUMENT	DOC.	TEMPORARY LIMITED EASEMENT	T.L.E.
EASEMENT	EASE.	VOLUME	V.
HIGHWAY EASEMENT	H.E.	**CURVE DATA**	
LAND CONTRACT	LC	LONG CHORD	LCH
MONUMENT	MON.	LONG CHORD BEARING	LCB
PAGE	P.	RADIUS	R
PERMANENT LIMITED EASEMENT	P.L.E.	DEGREE OF CURVE	D
PROPERTY LINE	P.L.	CENTRAL ANGLE OR DELTA	DELTA
RECORDED AS	(100')	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	SIGN	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	RWBZ01	QUARTER LINE	
PARCEL NUMBER	02	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	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	⊠	

PROJECT NUMBER 4640-05-21 - 4.01
SHEET 2 OF 2
AMENDMENT NO:___

FILE NAME : L:\WORK\60187755\000_CADD\SURVEY\NEW PLAT\SHEETS\040101T_RP.DWG PLOT DATE : 3/11/2014 3:55 PM PLOT BY : LAHAYE, CHRIS PLOT NAME : 040101T_RP.DWG

TITLE SHEET 4.01T

4

4

TRANSPORTATION PROJECT PLAT NO: 4640-05-21 - 4.01

PART OF THE SE 1/4 OF THE SE 1/4 AND GOVERNMENT LOT 9, SECTION 32, TOWNSHIP 15 NORTH, RANGE 23 EAST, AND PART OF LOT 1, CSM VOL. 21, P. 148-153, LOCATED IN THE NW 1/4 OF THE NE 1/4 OF SECTION 5, TOWNSHIP 14 NORTH, RANGE 23 EAST, VILLAGE OF KOHLER, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 28, PRANGE ROAD - TAYLOR DRIVE, SHEBOYGAN 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 SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN 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.

0 BY DOCUMENT NO. 1995249

1985515
SHEBOYGAN COUNTY WI
RECORDED ON
04/30/2014 11:47 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 139

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4640-05-21-4.01
SHEET 1 OF 2
AMENDMENT NO:___

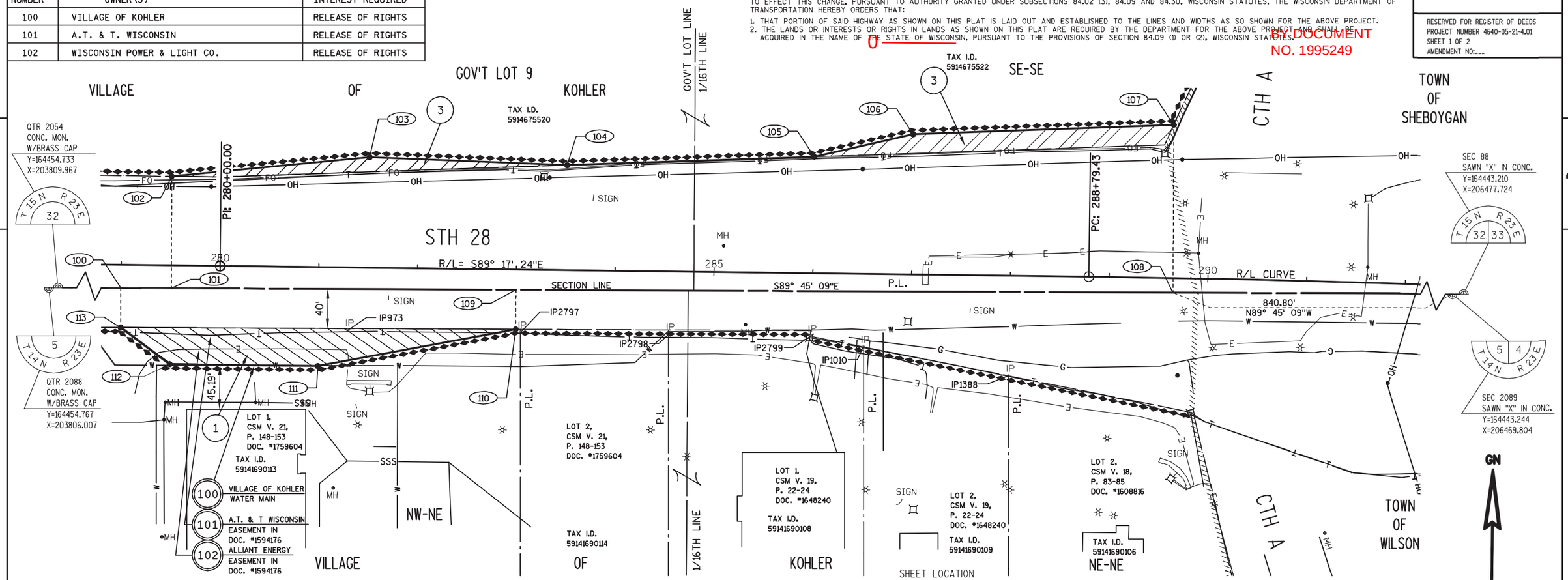
SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
1	INLAND REAL ESTATE DEER TRACE LLC	FEE	10328	0 ~~15995~~	10328	-----	-----
3	KOHLER CO.	FEE	9254	-----	9254	-----	-----

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
100	VILLAGE OF KOHLER	RELEASE OF RIGHTS
101	A.T. & T. WISCONSIN	RELEASE OF RIGHTS
102	WISCONSIN POWER & LIGHT CO.	RELEASE OF RIGHTS



EXISTING RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
PROJECT I.D. 1221-1-22 & S 0604(5).
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN D.O.T. REGIONAL OFFICE IN GREEN BAY.

R/L ALIGNMENT

P.I. STA.	269+97.56	P.I. STA.	280+00.00
Y	164484.245	Y	164473.865
X	203661.955	X	204664.338
P.C. STA.	288+79.43	P.T. STA.	292+20.35
Y	164462.968	Y	164455.361
X	205543.699	X	205884.532

R/L CURVE DATA

P.I.	= 290+49.90
Y	164,460.855
X	205,714.153
Δ.	= 1° 08' 14"
D.	= 00° 20' 01"
T.	= 170.46'
L.	= 340.92'
R.	= 17176.73'
P.T.	= 292+20.35

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET	Y	X
100	278+99.76	23.43 R	164451.477	204563.859
101	279+50.68	23.12 R	164451.257	204614.784
102	279+50.00	90.13 L	164564.504	204615.274
103	281+50.00	112.00 L	164583.998	204815.714
104	283+50.00	106.29 L	164575.813	205015.628
105	286+00.00	117.91 L	164584.330	205265.753
106	287+00.00	142.00 L	164607.180	205366.044
107	289+62.81	154.99 L	164616.703	205629.748
108	289+65.01	14.82 R	164446.876	205629.015
109	282+99.68	20.40 R	164449.750	204963.739
110	283+00.00	60.40 R	164409.750	204963.567
111	281+00.00	100.00 R	164372.634	204763.091
112	279+50.00	100.00 R	164374.388	204613.305
113	279+00.00	63.43 R	164411.477	204563.686

RIGHT OF WAY COURSE TABLE

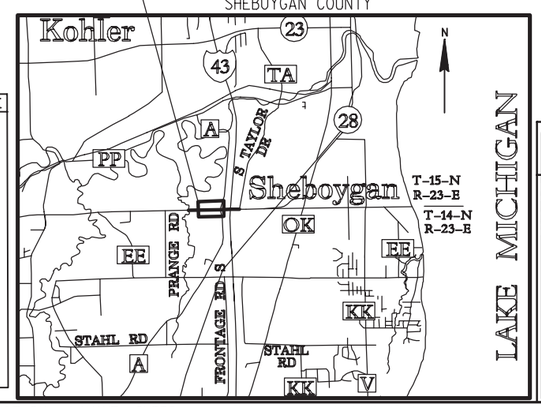
FROM - TO	BEARING	DISTANCE
2054 - 100	S89°45'09"E	753.90'
100 - 101	S89°45'09"E	50.93'
101 - 102	N00°14'51"E	113.25'
102 - 103	N84°26'43"E	201.39'
103 - 104	S87°39'20"E	200.08'
104 - 105	N88°02'59"E	250.27'
105 - 106	N77°09'54"E	102.86'
106 - 107	N87°55'55"E	263.88'
107 - 108	S00°14'51"W	169.83'
108 - 109	N89°45'09"W	665.28'
109 - 110	S00°14'51"W	40.00'
110 - 111	S79°30'39"W	203.88'
111 - 112	N89°19'44"W	149.80'
112 - 113	N53°13'21"W	61.95'
113 - 100	N00°14'51"E	40.00'

FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
973	1" I.D. IRON PIPE	281+30.06	63.55 R
1010	1" I.D. IRON PIPE	286+52.16	73.83 R
1388	1" I.D. IRON PIPE	287+99.38	101.28 R
2797	3/4" REBAR	283+04.75	63.61 R
2798	1" O.D. IRON PIPE	284+54.69	63.64 R
2799	1" I.D. IRON PIPE	285+98.41	63.72 R

SHEET LOCATION

LOCATION MAP
SHEBOYGAN COUNTY



PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4640-05-21- 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 4/21/2014
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van Erem 4/25/2014
PRINTED NAME SIGNATURE DATE

FILE NAME : L:\WORK\60187755\000_CADD\SURVEY\NEW PLAT\SHEETS\040101_RP.DWG
APPRAISAL PLAT DATE : 3/12/14
PLOT DATE : 4/25/2014 10:51 AM PLOT BY : LAHAYE, CHRIS PLOT NAME : 040101_RP.DWG_

TRANSPORTATION PROJECT PLAT NO: 4640-05-21 - 4.02

PART OF THE SW 1/4 OF THE SW 1/4 OF SECTION 33, TOWNSHIP 15 NORTH, RANGE 23 EAST,
CITY OF SHEBOYGAN, SHEBOYGAN COUNTY, WISCONSIN.

RELOCATION ORDER STH 28, PRANGE ROAD - TAYLOR DRIVE, SHEBOYGAN 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 SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN 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.

1985867
SHEBOYGAN COUNTY WI
RECORDED ON
05/08/2014 10:28 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 141

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4640-05-21-4.02
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
4	ACUITY, A MUTUAL INSURANCE CO.	FEE & T.L.E.	1738	-----	1738	8293	-----

FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
1220	1" I.D. IRON PIPE	246+49.64	178.04 R
1223	1" I.D. IRON PIPE	246+96.62	97.87 R
2801	7/8" O.D. PIPE	299+35.79	77.49 R
2802	1" I.D. IRON PIP	301+78.96	53.22 R

SCALE, FEET
0 50 100

NB ENTRANCE RAMP ALIGNMENT

P.I. STA. 245+68.68 — P.C. STA. 247+82.28
Y 164491.571 — Y 164703.932
X 206529.986 — X 206552.924

P.T. STA. 250+62.59 — P.I. STA. 251+37.89
Y 164983.798 — Y 165058.834
X 206556.170 — X 206549.822
Δ. = 00° 31' 58" L

P.C. STA. 253+41.70 — P.T. STA. 256+30.79
Y 165261.743 — Y 165550.390
X 206530.755 — X 206531.526

NB ENTRANCE RAMP CURVE 1 DATA

P.I. = 249+22.87
Y 164843.709
X 206568.022
Δ. = 11° 00' 02"
D. = 03° 55' 28"
T. = 140.59'
L. = 280.32'
R. = 1460.00'
P.T. = 250+62.59

NB ENTRANCE RAMP CURVE 2 DATA

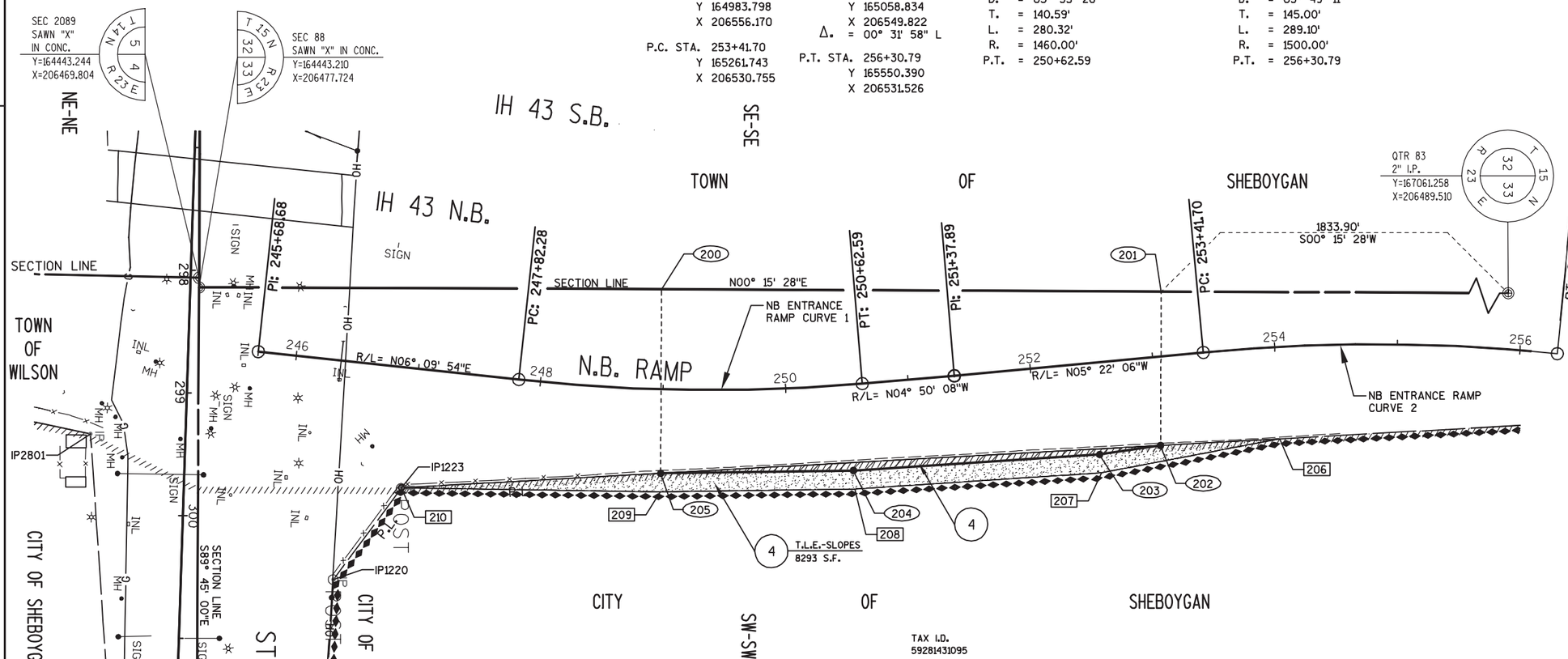
P.I. = 254+86.69
Y 165406.104
X 206517.189
Δ. = 11° 02' 33"
D. = 03° 49' 11"
T. = 145.00'
L. = 289.10'
R. = 1500.00'
P.T. = 256+30.79

R/L ALIGNMENT

P.T. STA. 292+20.35 — P.I. STA. 304+19.43
Y 164455.361 — Y 164416.709
X 205884.532 — X 207082.989

R/L CURVE DATA

P.I. = 290+49.90
Y 164460.855
X 205714.153
Δ. = 1° 08' 14"
D. = 00° 20' 01"
T. = 170.46'
L. = 340.92'
R. = 17176.73'
P.T. = 292+20.35



RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

POINT	STATION	OFFSET		Y	X
200	248+96.44	81.35	L	164820.186	206479.421
201	253+12.12	52.50	L	165227.383	206481.254
202	252+99.84	72.18	R	165226.819	206606.533
203	252+49.83	74.89	R	165177.286	206613.909
204	250+50.00	70.00	R	164976.546	206626.977
205	249+00.00	68.44	R	164819.512	206629.247
206	254+00.00	74.80	R	165323.979	206601.114
207	252+49.80	89.89	R	165178.656	206628.847
208	250+50.00	85.00	R	164977.681	206641.934
209	249+00.00	83.44	R	164819.107	206644.242
210	246+96.62	97.87	R	164608.266	206641.028

RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
88 - 200	N00°15'28"E	376.98'
200 - 201	N00°15'28"E	407.20'
201 - 202	S89°44'31"E	125.28'
202 - 203	S08°28'13"E	50.08'
203 - 204	S03°43'28"E	201.17'
204 - 205	S00°49'42"E	157.05'
205 - 200	N89°44'31"W	149.83'

TAX I.D.
59281431095

EXISTING RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: PROJECT I.D. 1452-1-21.
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION,
CONTACT THE WISCONSIN D.O.T. REGIONAL OFFICE IN GREEN BAY.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 1985515 AND FILED IN VOL. 1 , PAGE 139.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4640-05-21- 4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN KENNETH R. WOLF S-1421 SHEBOYGAN, WISCONSIN LAND SURVEYOR

Kenneth R. Wolf 4/21/2014
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM — Curt Van Erem — 5/6/2014
PRINTED NAME SIGNATURE DATE

TRANSPORTATION PROJECT PLAT NO: 4640-05-21 - 4.03

PART OF LOT 3, BLOCK 2, SHEBOYGAN INDUSTRIAL PARK NO. 1, LOCATED IN THE SW 1/4 OF THE SW 1/4 OF SECTION 33, TOWNSHIP 15 NORTH, RANGE 23 EAST, AND PART OF LOTS 1 & 2, CSM VOL. 11, P. 132-133, LOCATED IN THE NW 1/4 OF THE NW 1/4 OF SECTION 4, TOWNSHIP 14 NORTH, RANGE 23 EAST, CITY OF SHEBOYGAN, SHEBOYGAN COUNTY, WISCONSIN.
RELOCATION ORDER STH 28, PRANGE ROAD - TAYLOR DRIVE, SHEBOYGAN 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 SUBSECTIONS 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE WISCONSIN 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.

1985868
SHEBOYGAN COUNTY WI
RECORDED ON
05/08/2014 10:34 AM
ELLEN R. SCHLEICHER
REGISTER OF DEEDS
PLAT FEE: 25.00
Cashier ID: 9

Vol.: 1Page(s): 142

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 4640-05-21-4.03
AMENDMENT NO:___

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	SQUARE FOOTAGE REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.	P.L.E. S.F.
6	AMERICAN ORTHODONTICS CORP.	FEE & T.L.E.	727	-----	727	389	-----
7	QUALITY STATE OIL CO. INC	FEE	322	-----	322	-----	-----
8	MICHAEL & MARY ANN FIORE	FEE	76	-----	76	-----	-----

UTILITY INTERESTS REQUIRED

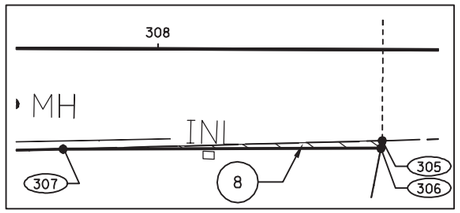
UTILITY NUMBER	OWNER (S)	INTEREST REQUIRED
101	A.T. & T.	RELEASE OF RIGHTS
103	AMERICAN TRANSMISSION CO.	RELEASE OF RIGHTS

GN

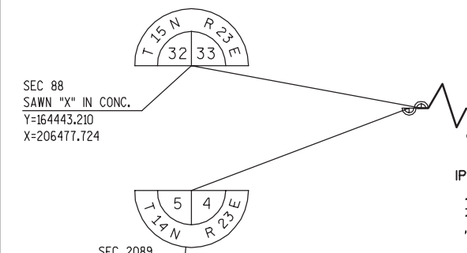
SCALE, FEET
0 50 100

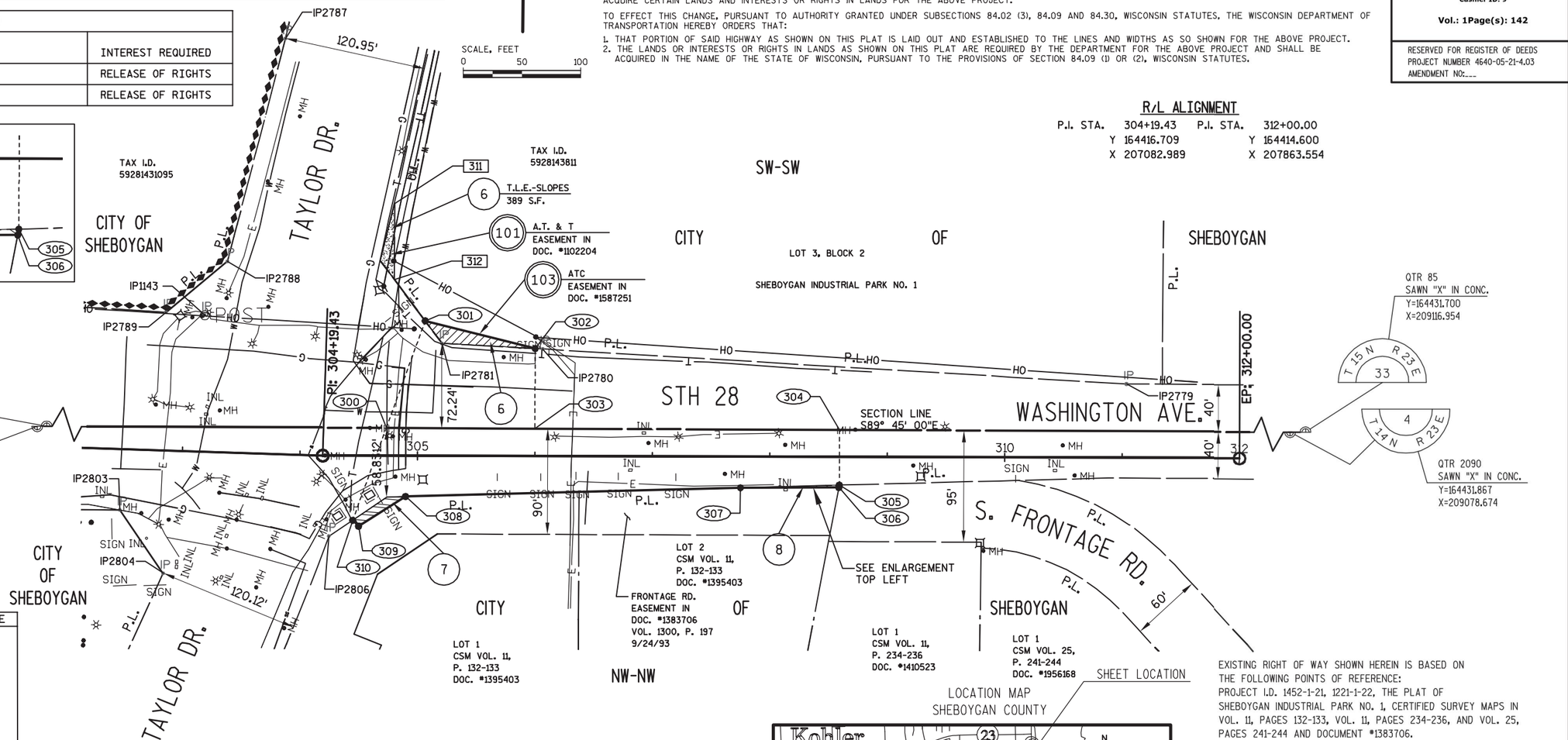
R/L ALIGNMENT

P.I. STA. 304+19.43 Y 164416.709 X 207082.989
P.I. STA. 312+00.00 Y 164414.600 X 207863.554



ENLARGEMENT
N.T.S.





RIGHT OF WAY COURSE TABLE

FROM - TO	BEARING	DISTANCE
88 - 300	S89°45'00"E	659.30'
300 - 301	N19°59'43"E	96.99'
301 - 302	S75°52'11"E	96.54'
302 - 303	S00°15'00"W	68.12'
303 - 304	S89°45'00"E	259.33'
304 - 305	S00°15'00"W	47.02'
305 - 306	S10°46'20"W	2.05'
306 - 307	S89°51'58"W	83.76'
307 - 308	S88^29'41"W	285.12'
308 - 309	S57°45'32"W	47.37'
309 - 310	N44°38'17"W	7.10'
310 - 300	N19°59'43"E	83.67'
2090 - 304	N89°45'00"W	1555.85'

RIGHT OF WAY STATION, OFFSET AND COORDINATE TABLE

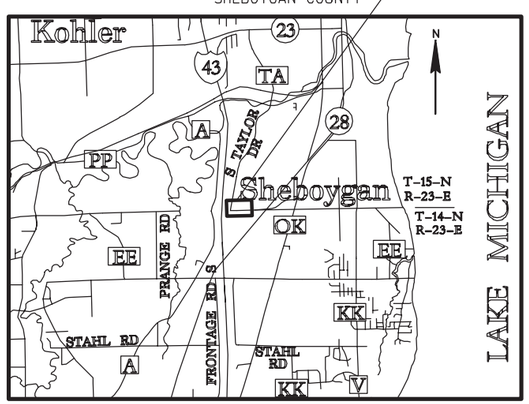
POINT	STATION	OFFSET	Y	X
300	304+73.40	23.77 L	164440.335	207137.022
301	305+06.32	115.00 L	164531.474	207170.185
302	306+00.00	91.69 L	164507.906	207263.807
303	305+99.89	23.56 L	164439.783	207263.509
304	308+59.22	23.13 L	164438.652	207522.840
305	308+59.14	23.89 R	164391.630	207522.635
306	308+58.77	25.91 R	164389.614	207522.251
307	307+75.00	26.33 R	164389.419	207438.487
308	304+90.00	34.59 R	164381.928	207153.466
309	304+50.00	59.97 R	164356.656	207113.397
310	304+45.00	54.94 R	164361.706	207108.410

FOUND MONUMENTATION TABLE

POINT	DESCRIPTION	STATION	OFFSET
1143	1" I.D. IRON PIPE	303+14.83	116.53 L
2779	7/8" O.D. PIPE	311+03.33	62.86 L
2780	7/8" O.D. PIPE	306+06.35	91.27 L
2781	7/8" O.D. PIPE	305+20.59	95.85 L
2787	1" I.D. IRON PIPE	303+76.03	353.74 L
2788	7/8" O.D. PIPE	303+32.98	162.71 L
2789	7/8" O.D. PIPE	302+82.08	117.73 L
2803	7/8" O.D. PIPE	302+48.23	51.71 R
2804	7/8" O.D. PIPE	302+86.72	104.46 R
2806	1" I.D. IRON PIPE	304+24.64	68.47 R

SHEET LOCATION

LOCATION MAP
SHEBOYGAN COUNTY



EXISTING RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
PROJECT I.D. 1452-1-21, 1221-1-22, THE PLAT OF SHEBOYGAN INDUSTRIAL PARK NO. 1, CERTIFIED SURVEY MAPS IN VOL. 11, PAGES 132-133, VOL. 11, PAGES 234-236, AND VOL. 25, PAGES 241-244 AND DOCUMENT #1383706.
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN D.O.T. REGIONAL OFFICE IN GREEN BAY.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED IN THE OFFICE OF REGISTER OF DEEDS IN SHEBOYGAN COUNTY AS SHEET 2 OF 2 OF DOCUMENT NO. 1985515 AND FILED IN VOL. 1 , PAGE 139.

PREPARED BY: AECOM
4135 TECHNOLOGY PARKWAY
SHEBOYGAN, WI 53083
T 920-458-8711 WWW.AECOM.COM

I, KENNETH R. WOLF, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 4640-05-21- 4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

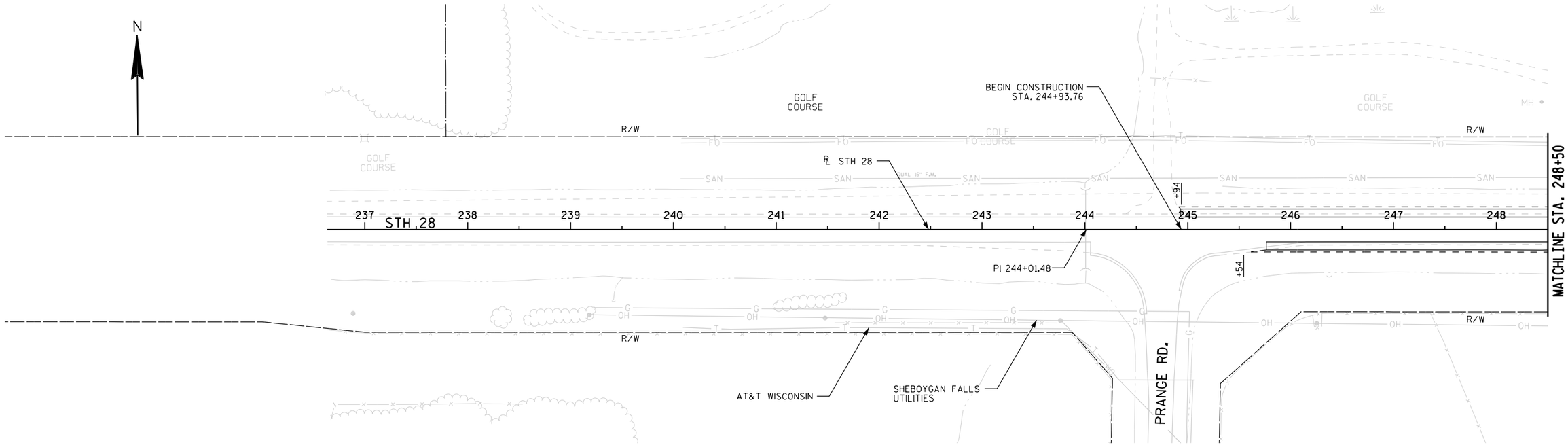
WISCONSIN KENNETH R. WOLF S-1421. SHEBOYGAN, WISCONSIN LAND SURVEYOR

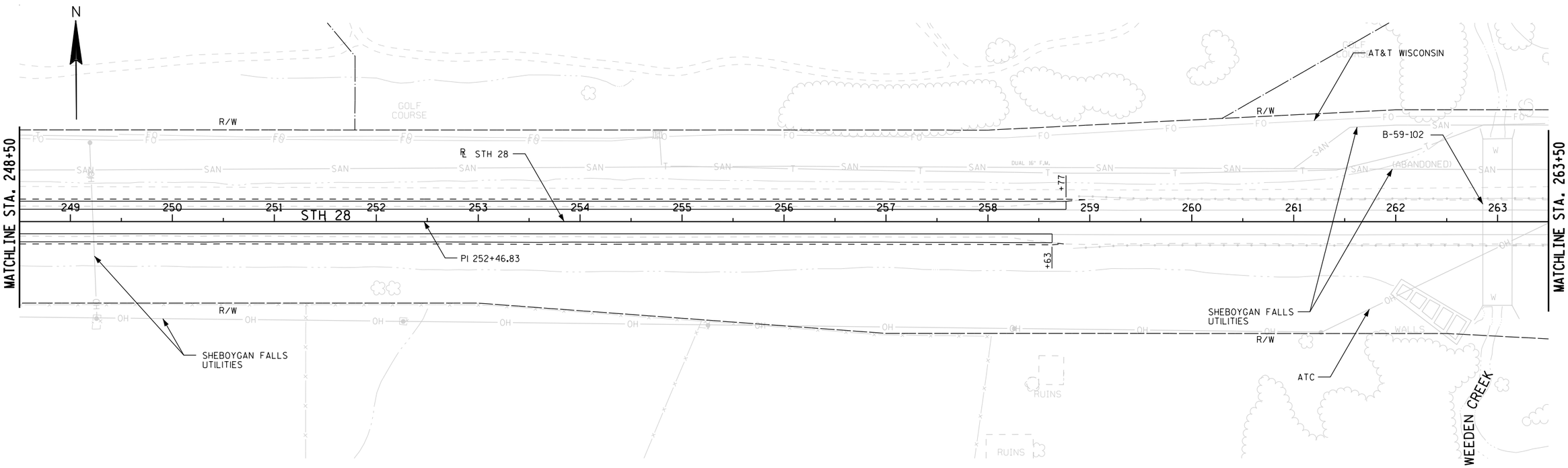
Kenneth R. Wolf 4/21/2014
KENNETH R. WOLF DATE
REGISTRATION NUMBER: S-1421

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NORTHEAST REGION.

CURT VAN EREM Curt Van Erem 5/6/2014
PRINTED NAME SIGNATURE DATE

391





PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PLAN	SHEET 392	E

N

GOLF COURSE

GOLF COURSE

RUINS

AT&T WISCONSIN

SHEBOYGAN FALLS UTILITIES

R/W

R/W

℄ STH 28 WB

℄ STH 28

MATCHLINE STA. 263+50

MATCHLINE STA. 277+50

STH 28

264 265 266 267 268 269 270 271 272 273 274 275 276 277

275WB 276WB 277WB

+39 +64 +14

ATC

PI 269+97.56

R/W

R/W

(ABANDONED)

DUAL 16" F.M.

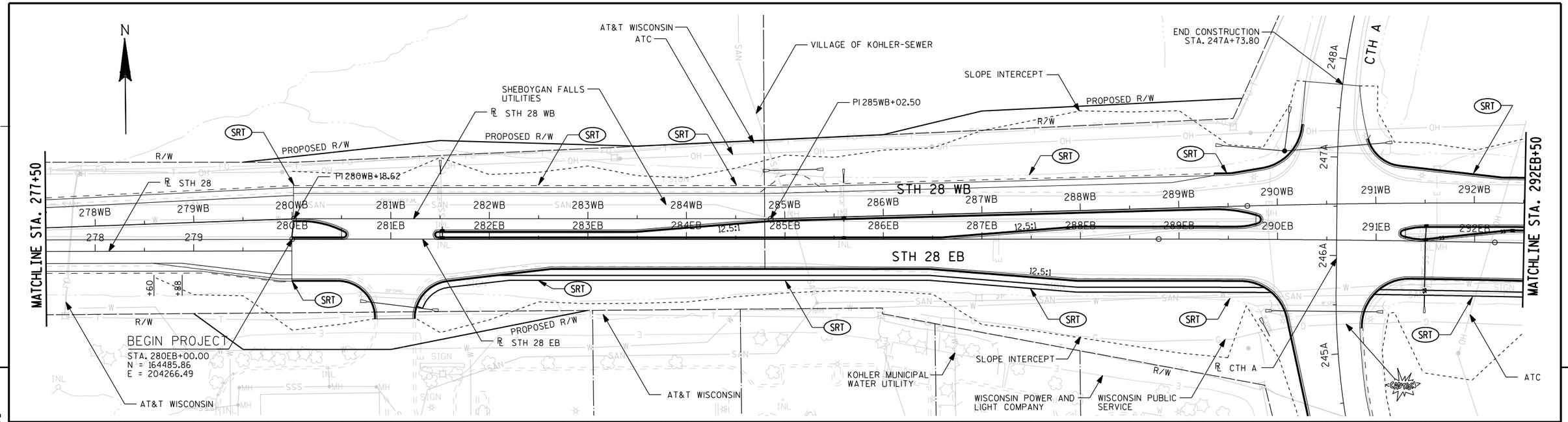
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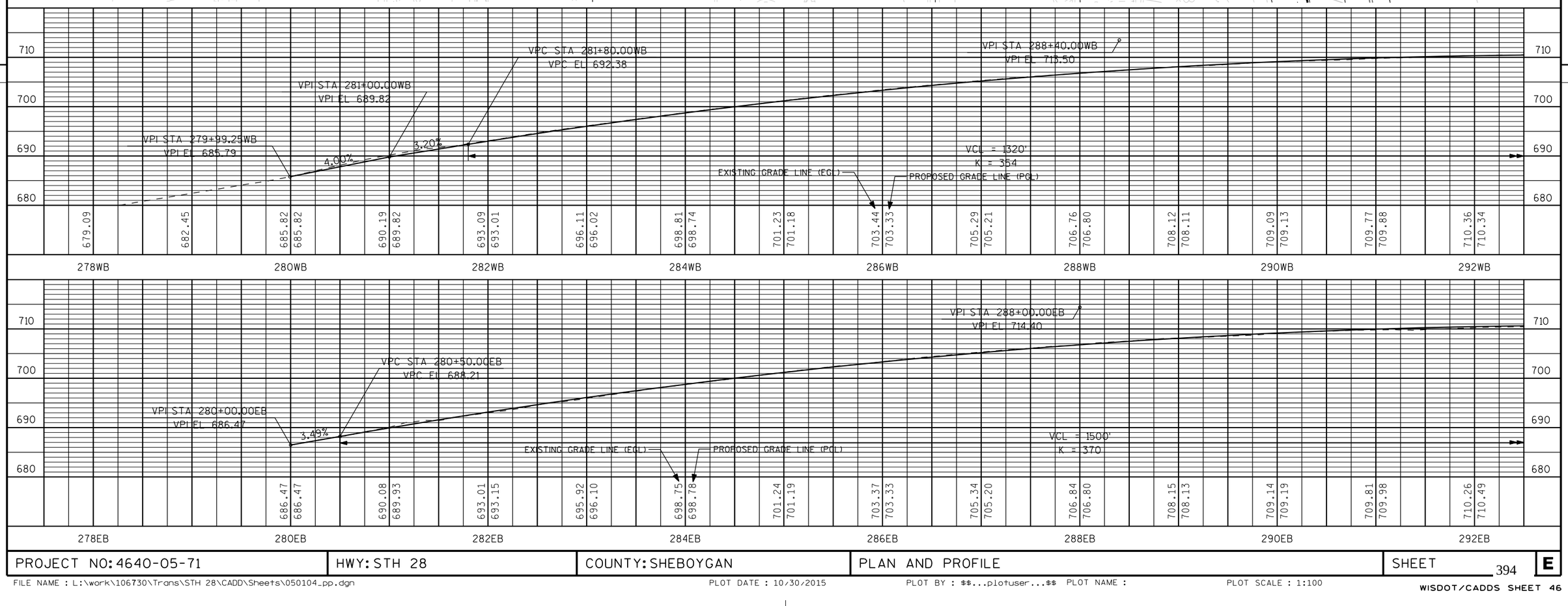
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PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PLAN	SHEET 393 E

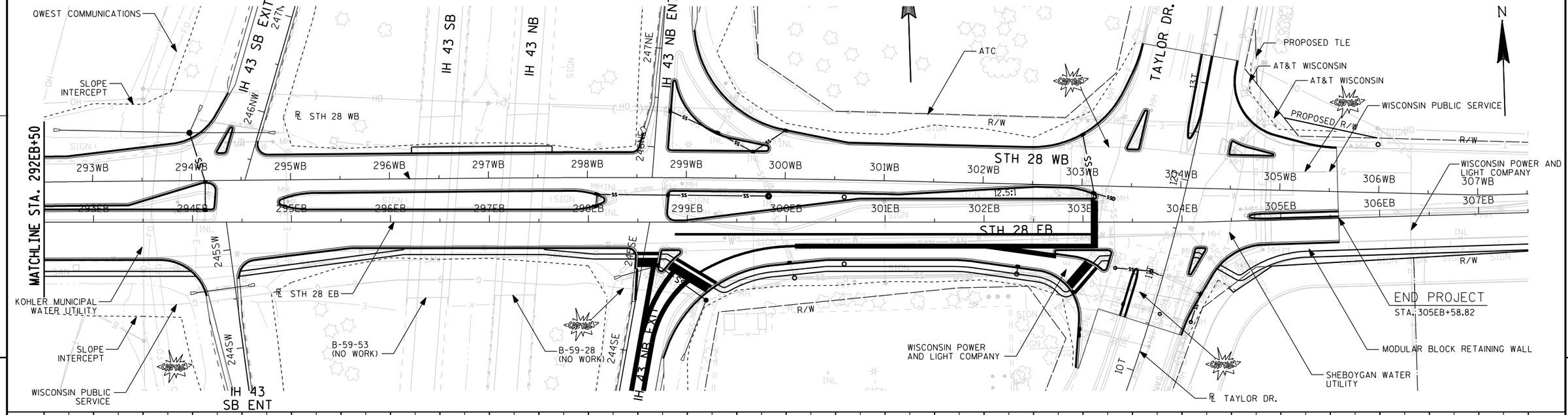
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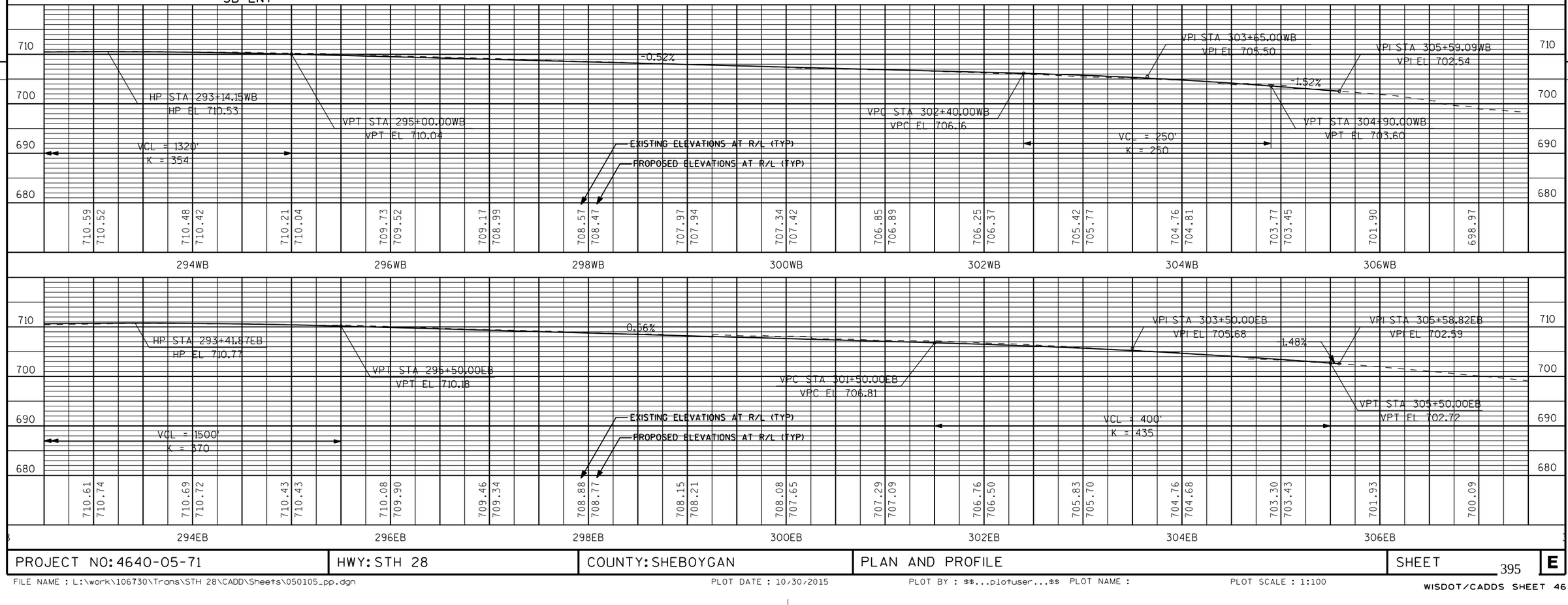
WISDOT/CADDS SHEET 44



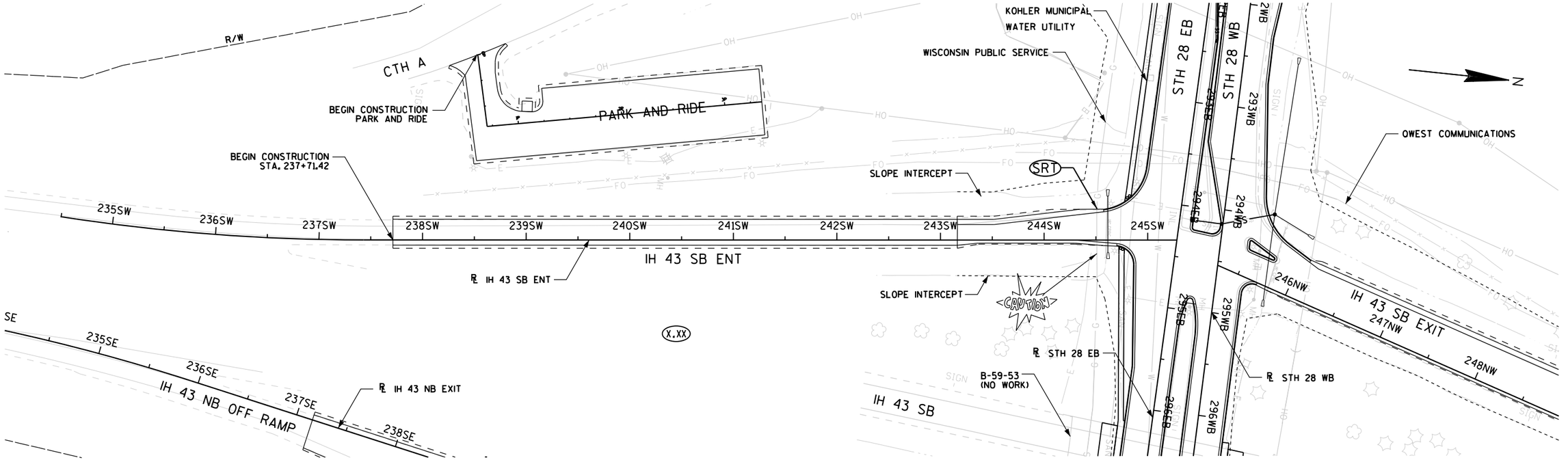


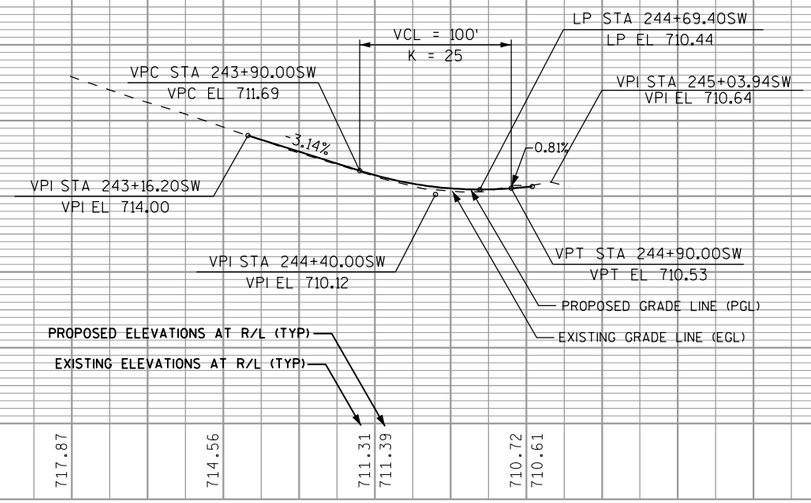
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PLAN AND PROFILE	SHEET 394	E





PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PLAN AND PROFILE	SHEET 395	E

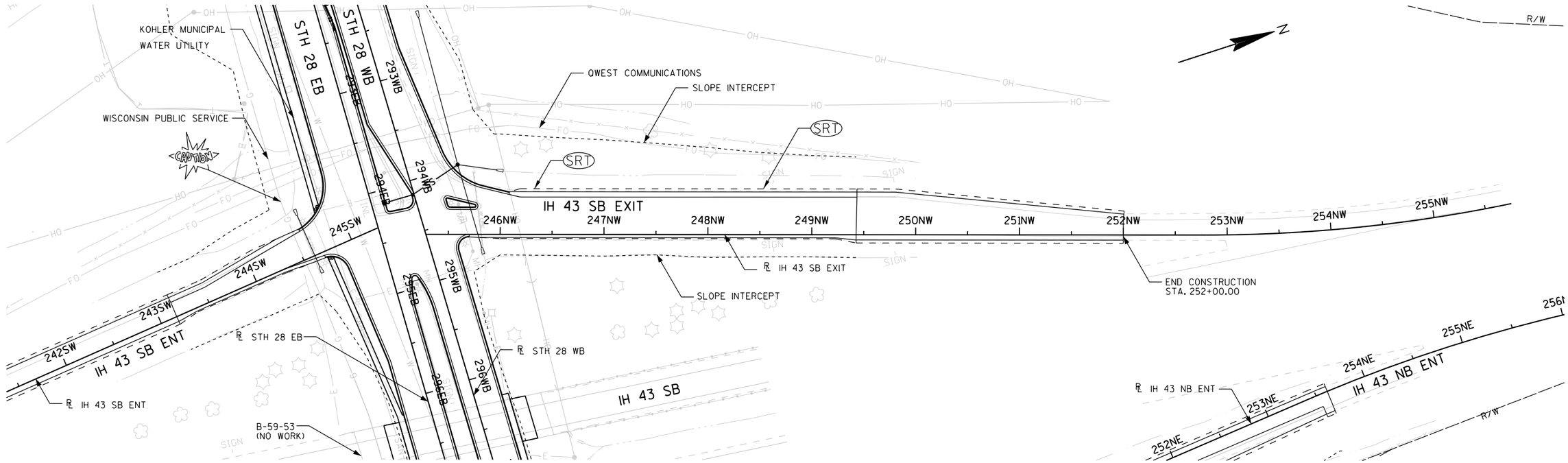




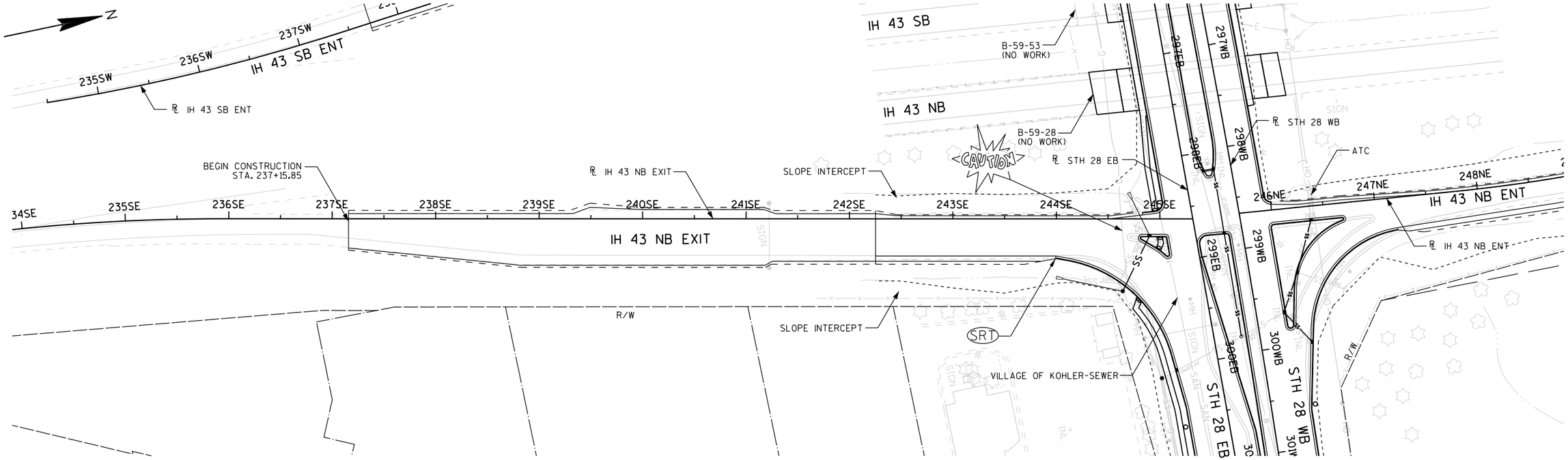
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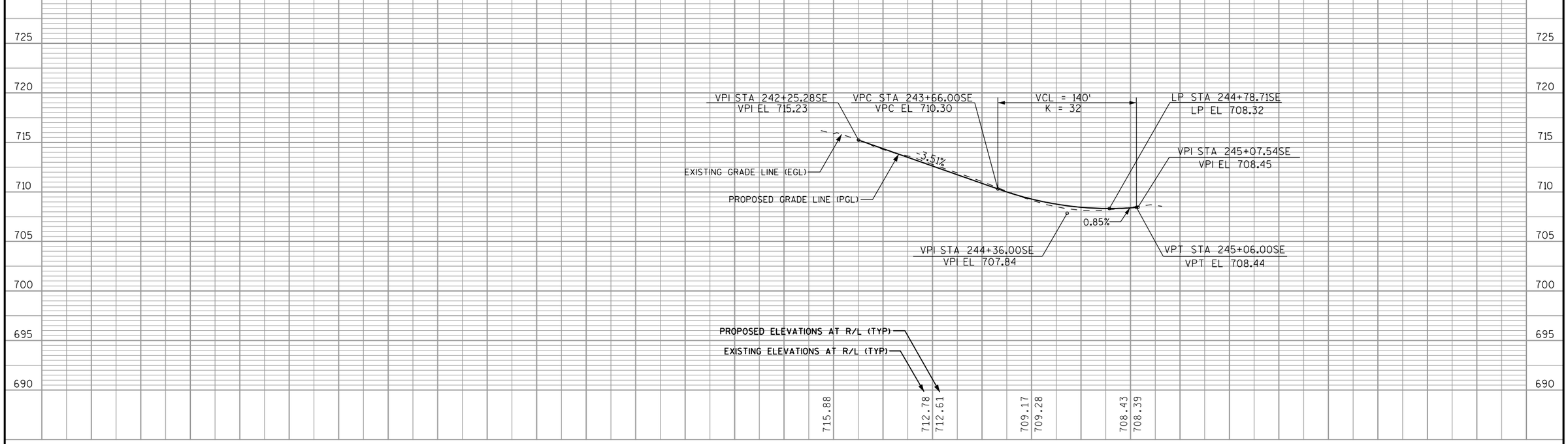
235SW 236SW 238SW 240SW 242SW 244SW 246SW 247SW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PLAN AND PROFILE	SHEET 396	E

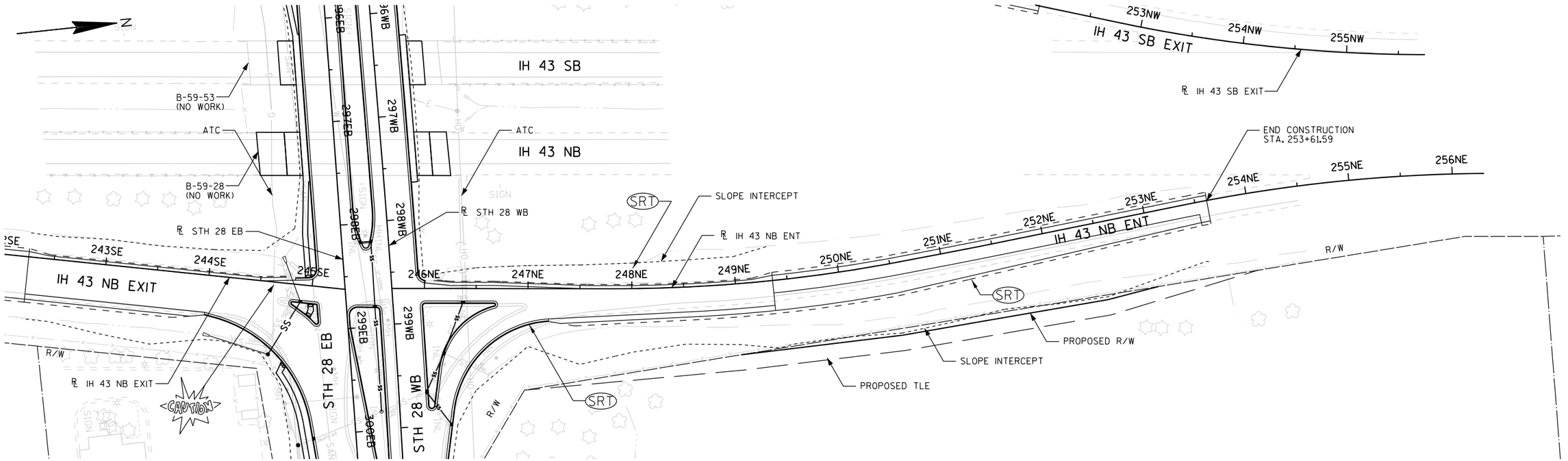


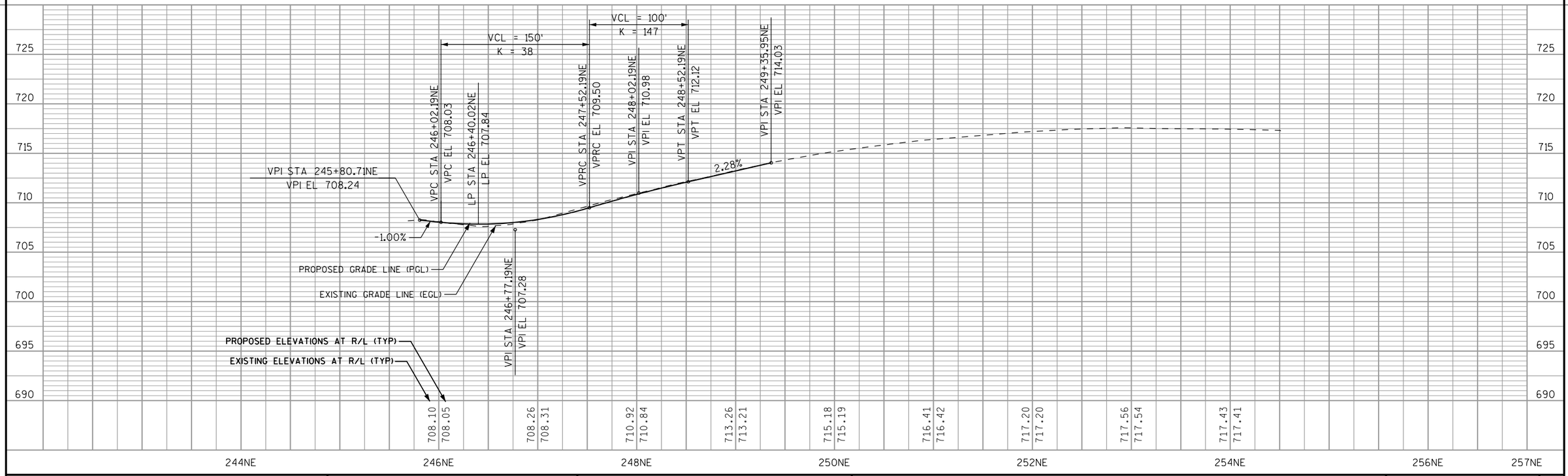
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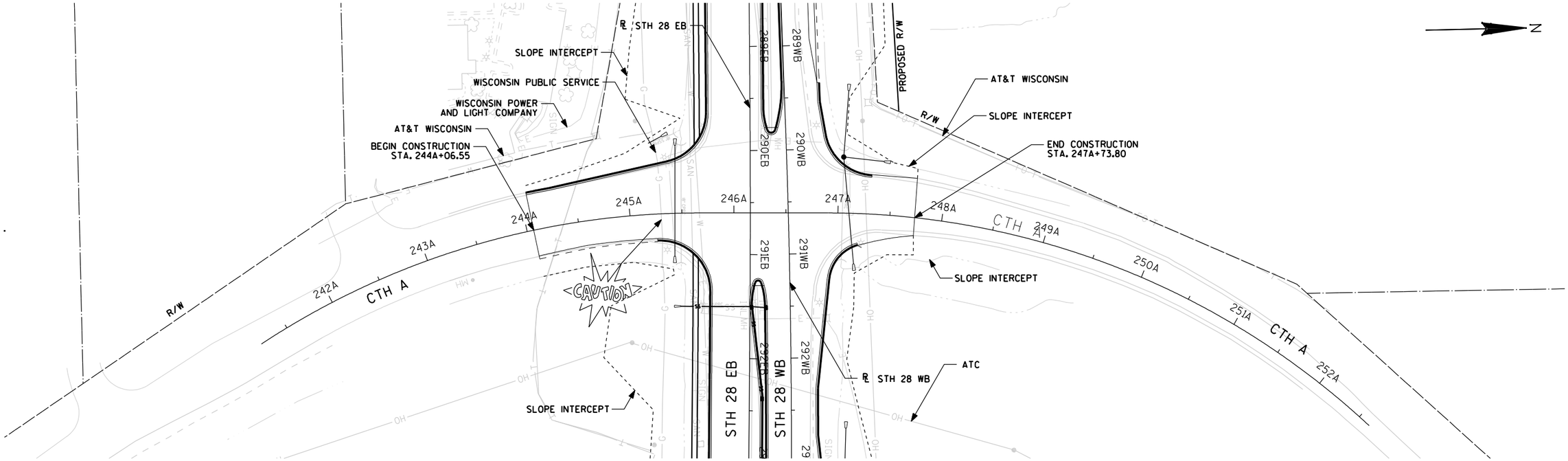


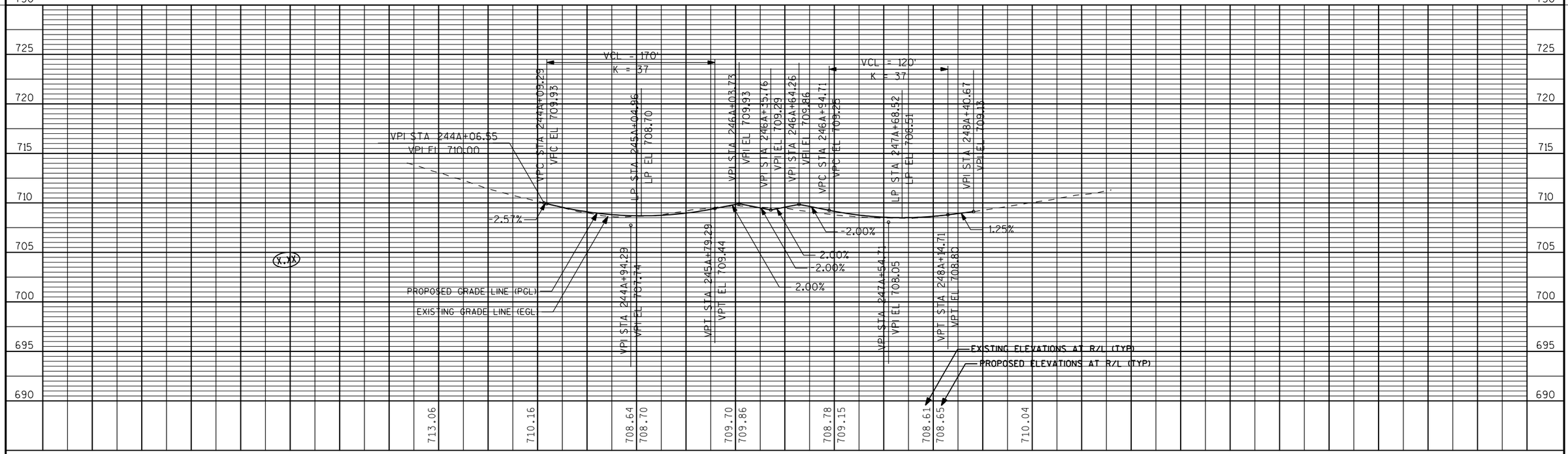
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PLAN AND PROFILE	SHEET 398	E





PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PLAN AND PROFILE	SHEET 399	E





PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PLAN AND PROFILE	SHEET 400	E

Standard Detail Drawing List

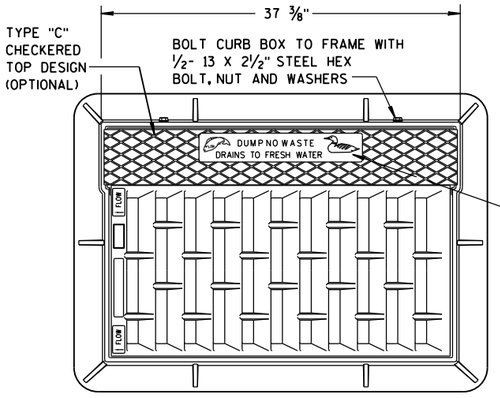
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-01	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-16A	CURB RAMPS TYPES 1 AND 1-A
08D05-16B	CURB RAMPS TYPES 2 AND 3
08D05-16C	CURB RAMPS TYPES 4A AND 4A1
08D05-16D	CURB RAMPS TYPE 4B AND 4B1
08D05-16E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-09	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C05-09	CONCRETE CONTROL CABINET BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-07	CONCRETE BASE TYPE 10
09C12-06A	CONCRETE BASE TYPE 13
09C12-06B	CONCRETE BASE TYPE 13
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-14C	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
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
09E08-07B	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-07C	TYPE 12 POLE 35'-55' MONOTUBE ARM
09E08-07E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11B02-02	CONCRETE MEDIAN NOSE
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
15A02-08	DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-12A	PAVEMENT MARKING SYMBOLS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)

6

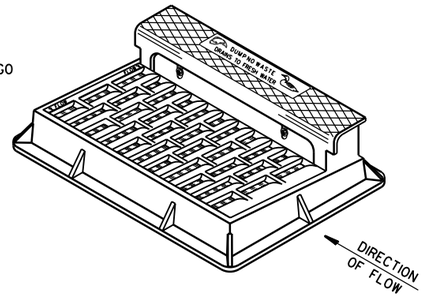
Standard Detail Drawing List

15C11-06	FLEXIBLE TUBULAR MARKER POST
15C25-02	42" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D15-01	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D16-02	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-03	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-03	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D34-01A	RAMP GATE SOLAR POWER
15D34-01B	RAMP GATE SOLAR POWER
15D34-01C	RAMP GATE SOLAR POWER
15D34-01D	RAMP GATE SOLAR POWER
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

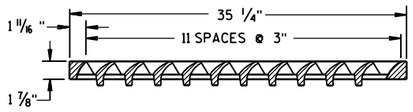
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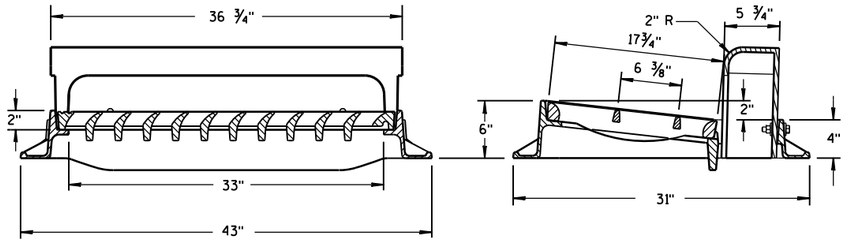


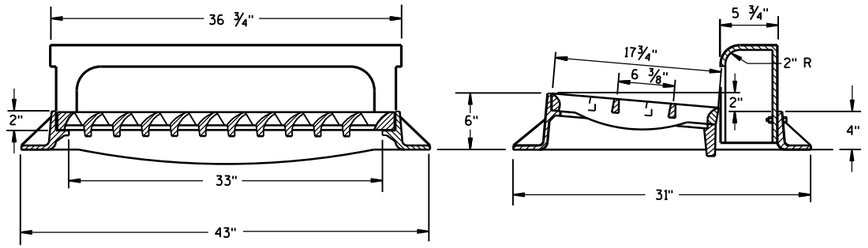
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

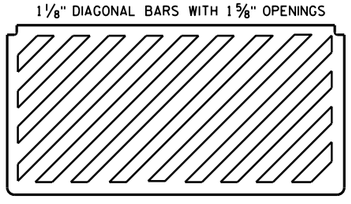






TYPE "H"

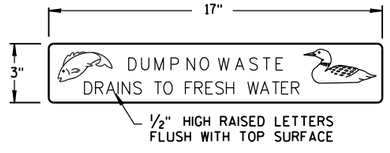
NOTE: EITHER CASTING IS ACCEPTABLE



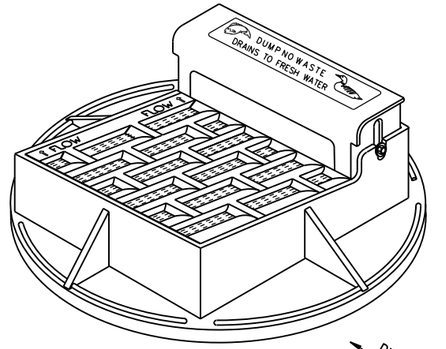
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

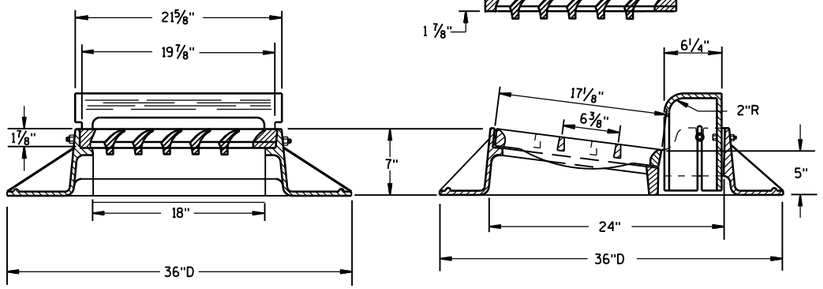


LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

NOTE:
GRATE IS REVERSIBLE.



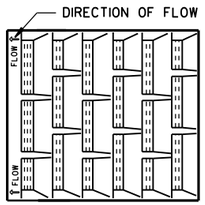
TYPE "A"

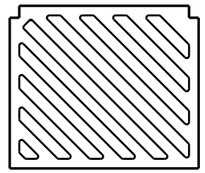
GENERAL NOTES

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.

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.

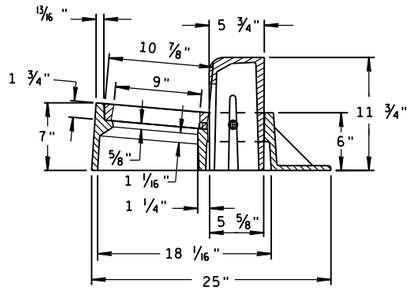


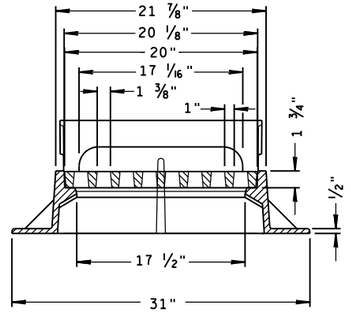


SPECIAL GRATE FOR TYPE "A" COVER

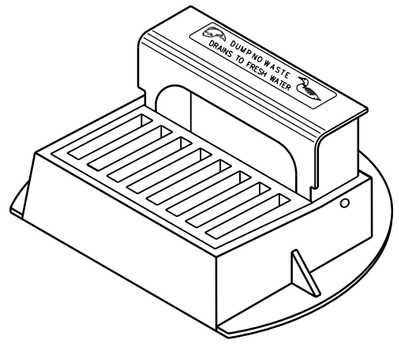
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)





TYPE "Z"

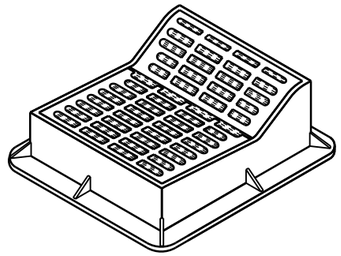


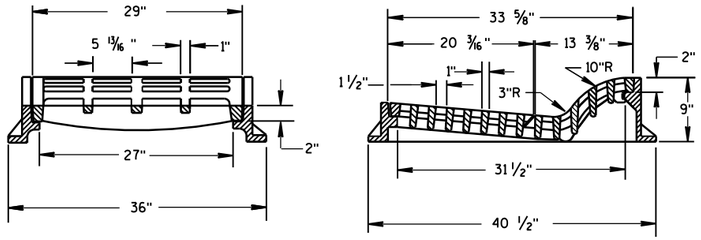
INLET COVERS TYPE A, H, A-S, H-S & Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

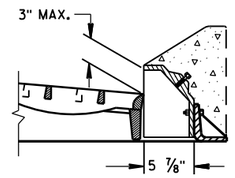
S.D.D. 8 A 5-19a





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

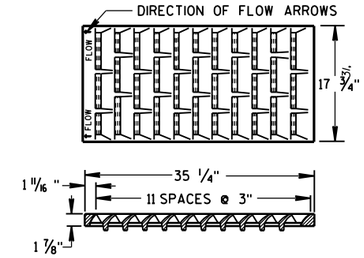
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

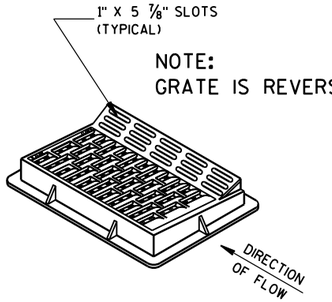
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

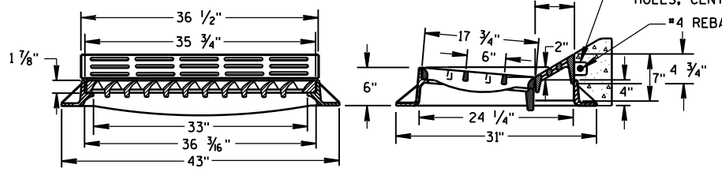
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



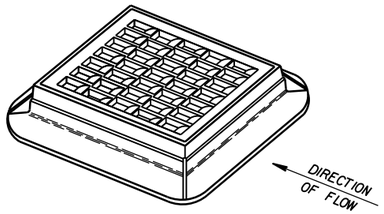


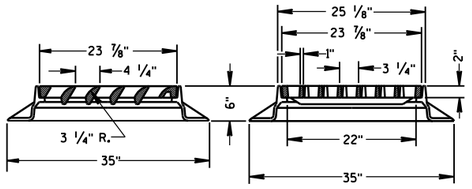


TYPE "HM"

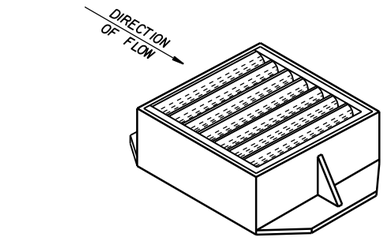
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

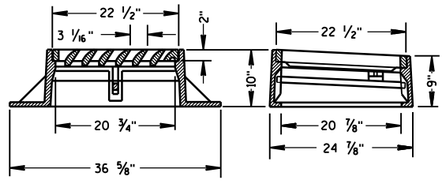
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



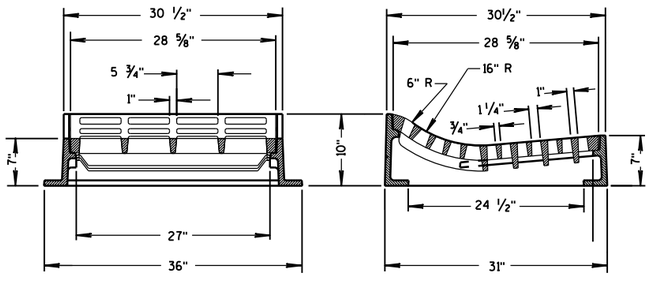


TYPE "S"



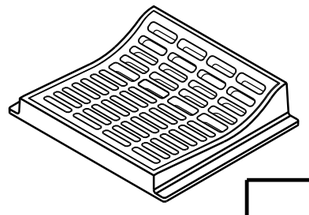


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

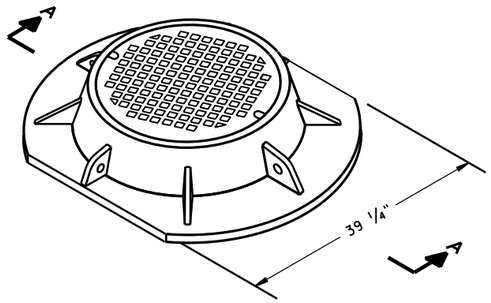
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

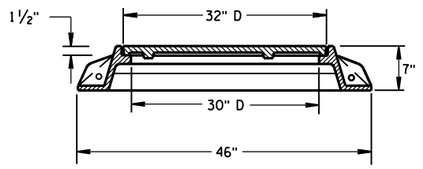
APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

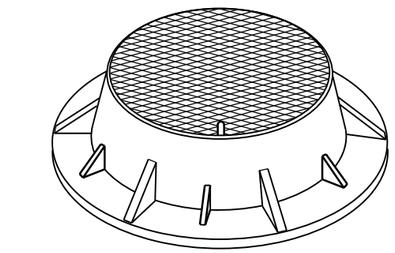
404

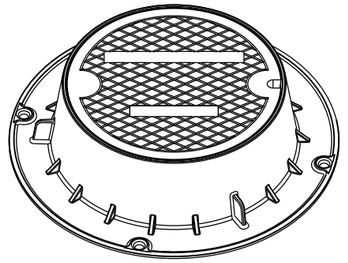
FHWA

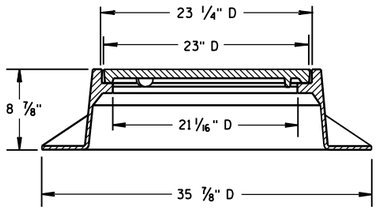


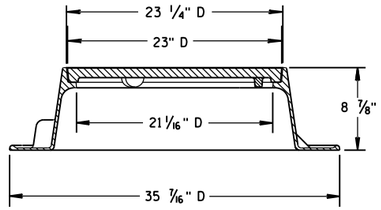


SECTION A-A
TYPE "K"









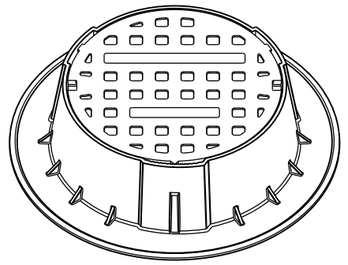
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

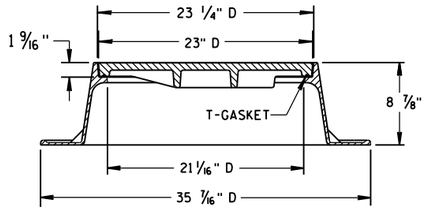
GENERAL NOTES

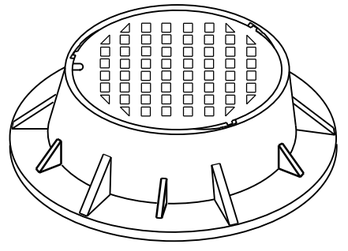
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

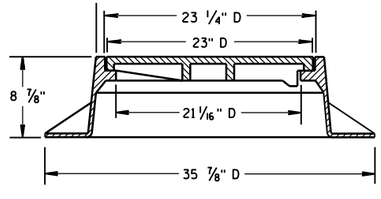
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

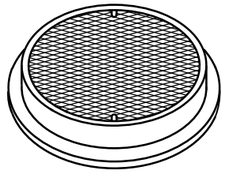


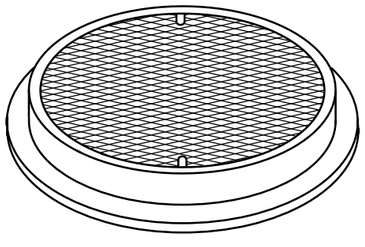


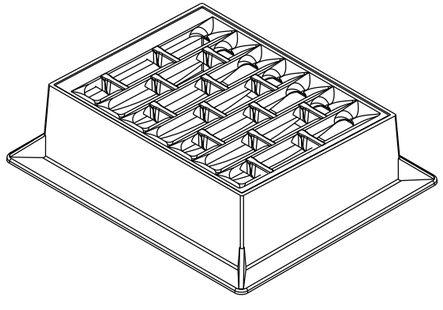


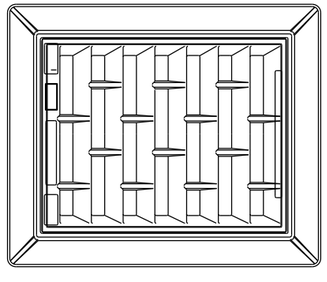


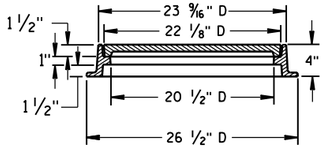
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



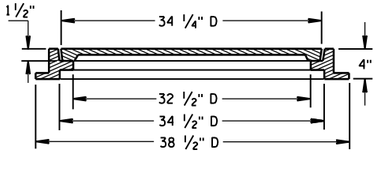




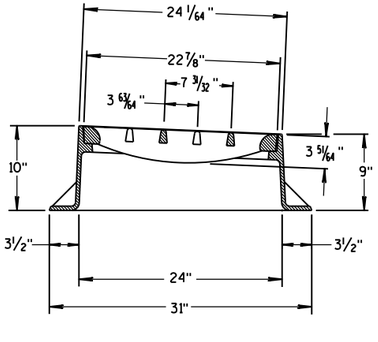


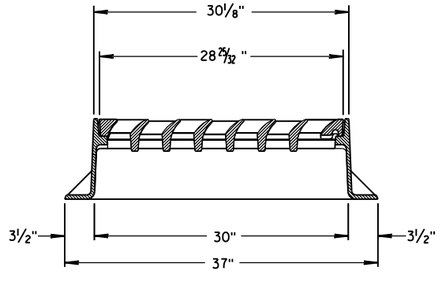


TYPE "L"



TYPE "M"





INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

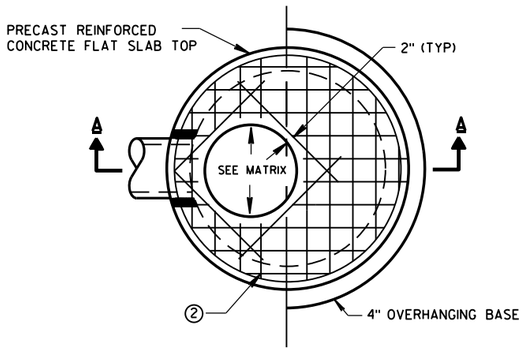
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

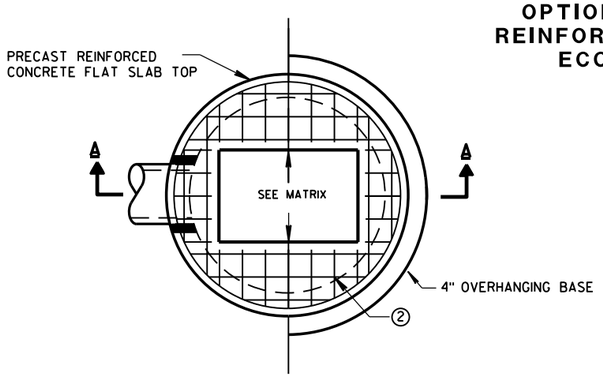
S.D.D. 8 A 5-19d

6

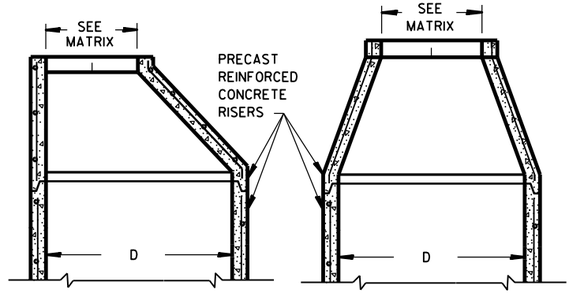
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

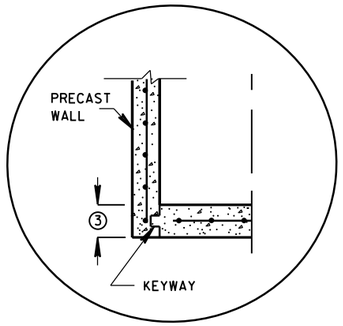


PLAN VIEW RECTANGULAR OPENING

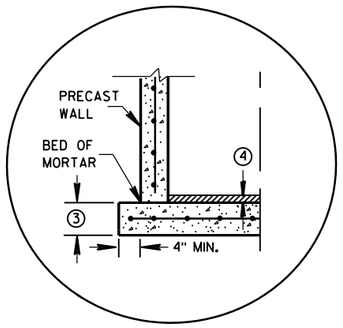


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

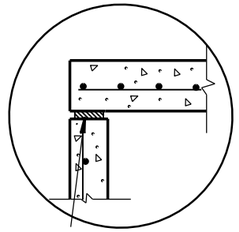


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



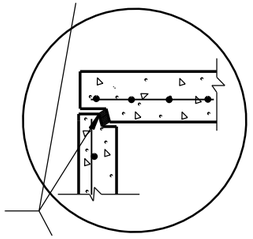
SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

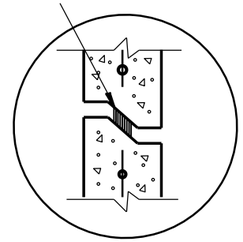


TOP WITH PLAIN END JOINT

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

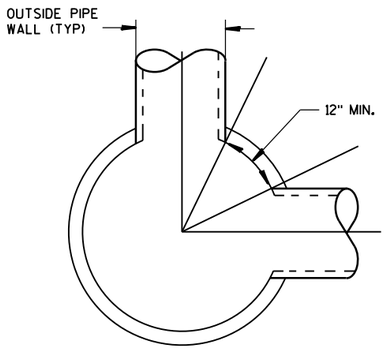


TOP WITH TONGUE AND GROOVE JOINT

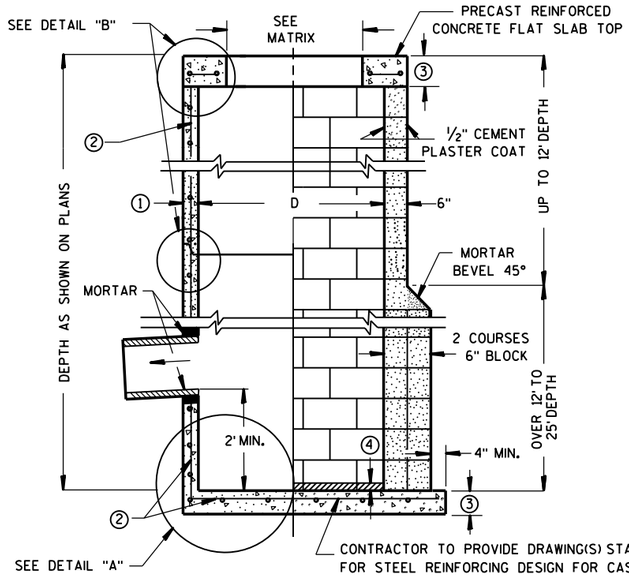


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



DETAIL "C"



CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

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 CATCH BASIN 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 CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE 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 1/2 INCH 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.

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.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS 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".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

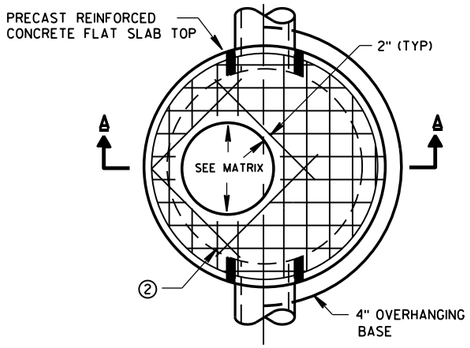
CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

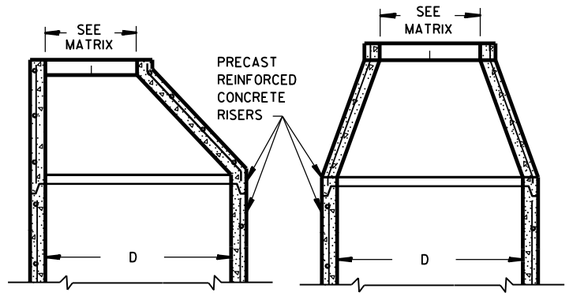
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

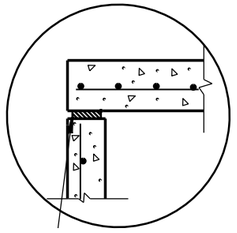


PLAN VIEW CIRCULAR OPENING

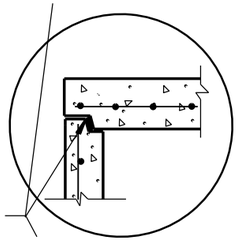


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

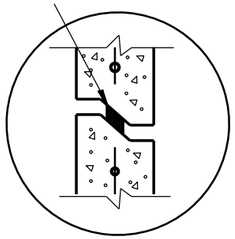


TOP WITH PLAIN END JOINT



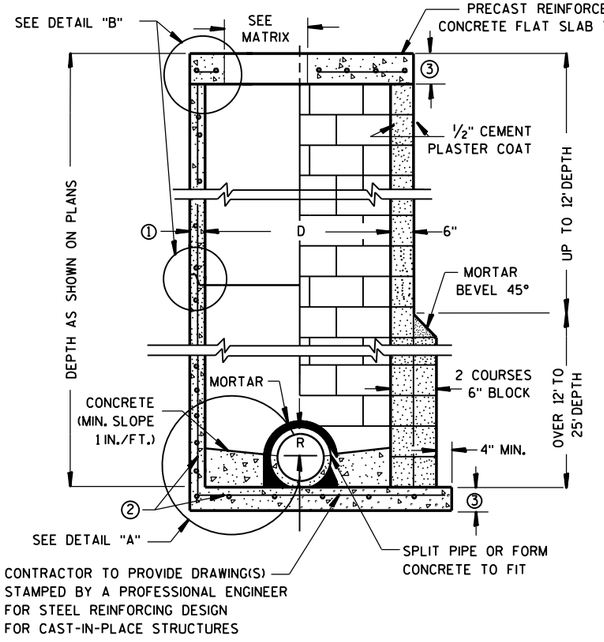
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



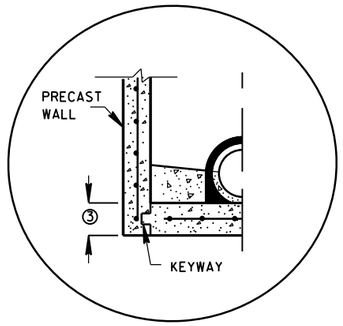
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

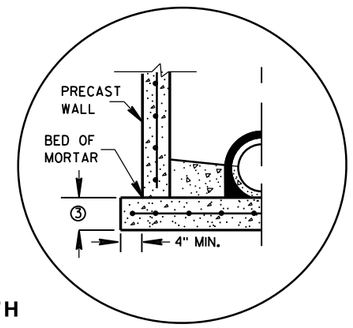


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

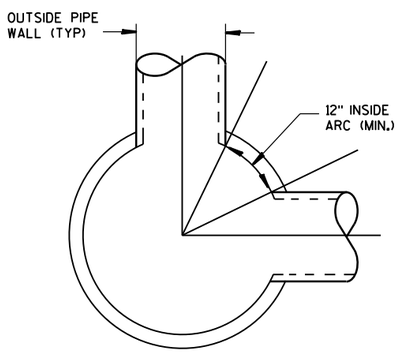


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

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

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

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

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

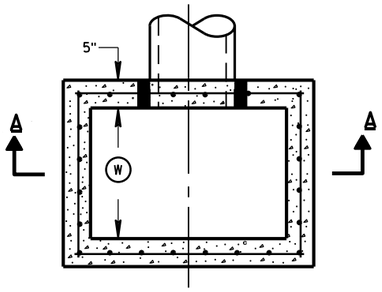
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

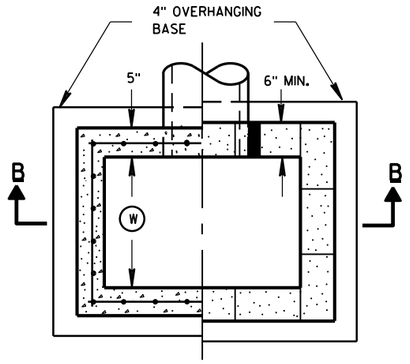
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

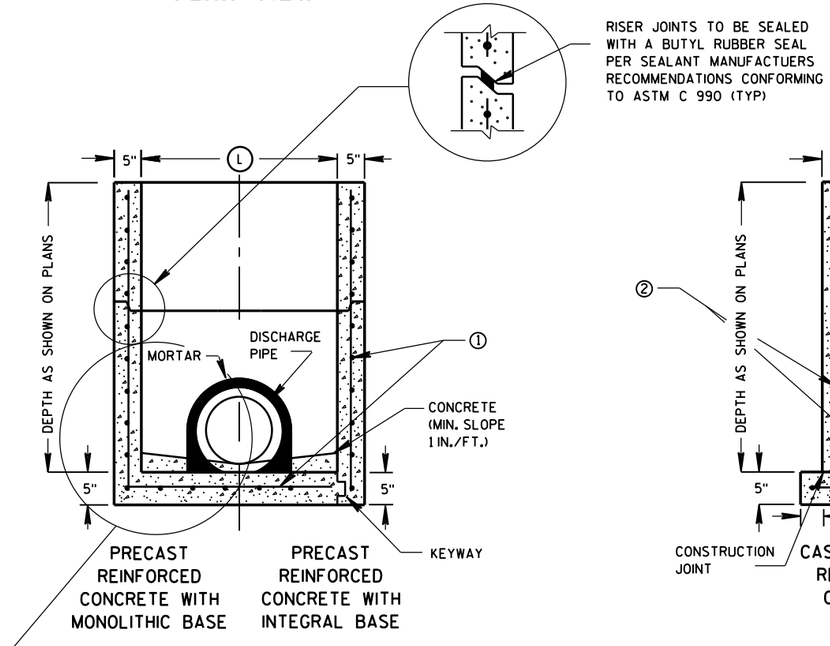
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S.D.D. 8 B 9-1



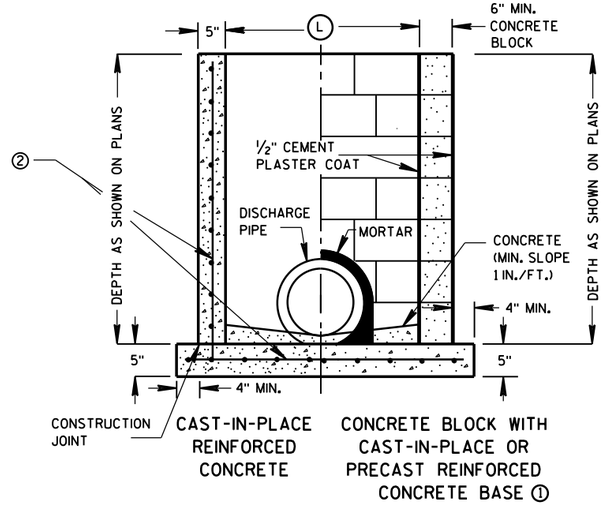
PLAN VIEW



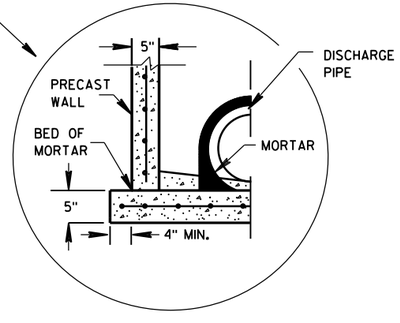
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE 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 SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

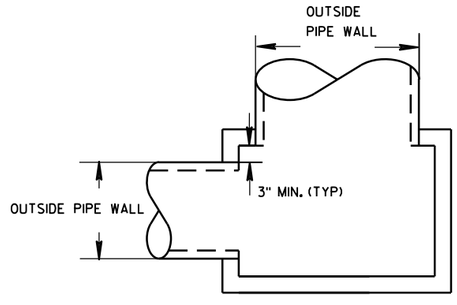
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

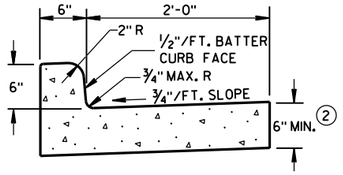
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

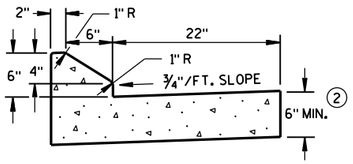
APPROVED
6/5/2012
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DE ENGINEER
FHWA

6

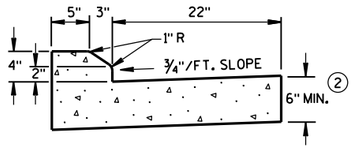
S.D.D. 8 C 7-1



TYPES A & D ①

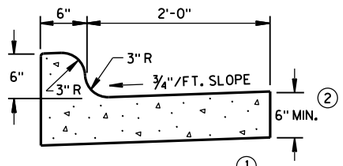


6" SLOPED CURB TYPES G & J ①

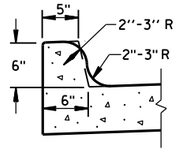


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

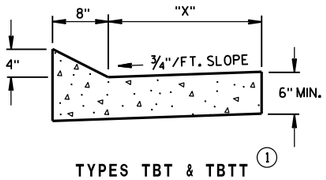


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

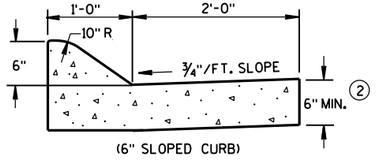
CONCRETE CURB & GUTTER 30"



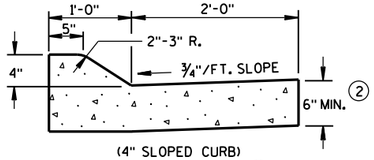
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

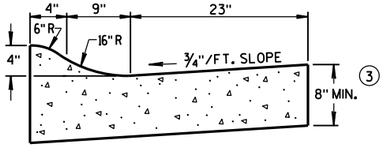


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

CONCRETE CURB & GUTTER 36"

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.

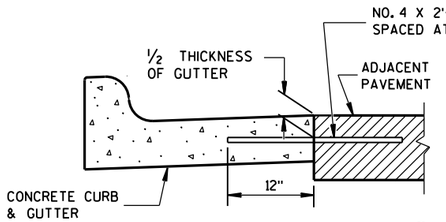
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

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.

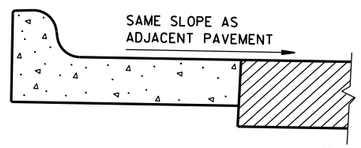
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

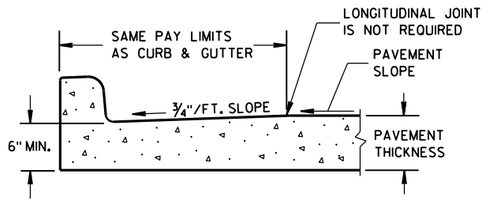
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



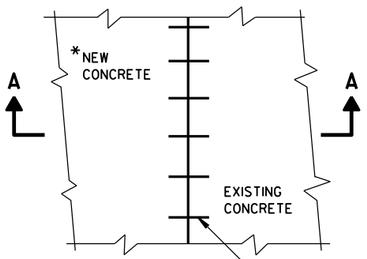
TYPICAL TIE BAR LOCATION ①



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)

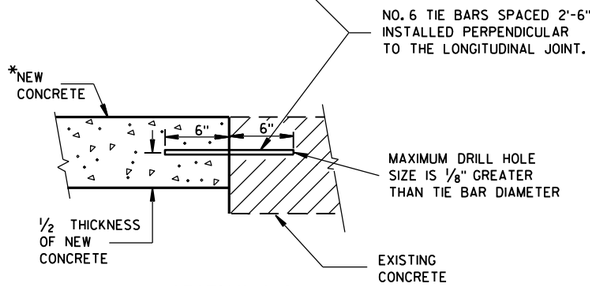


PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



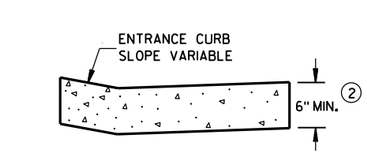
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

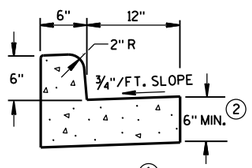


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

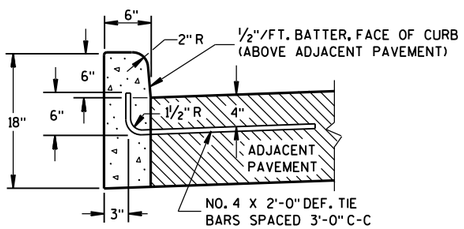


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

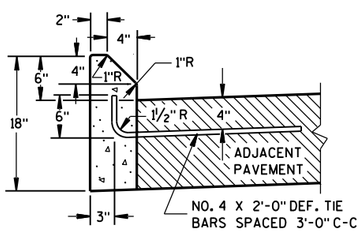


① TYPES A & D

CONCRETE CURB & GUTTER 18"

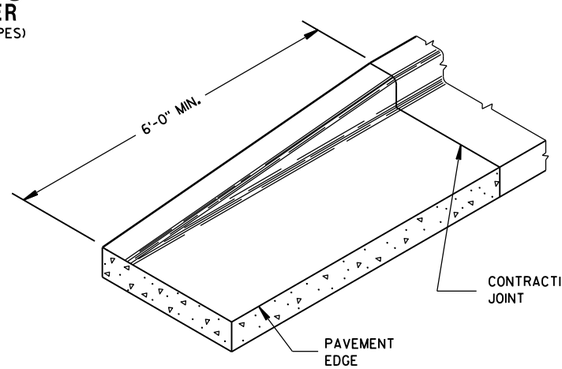


① TYPES A & D



① TYPES G & J

CONCRETE CURB



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

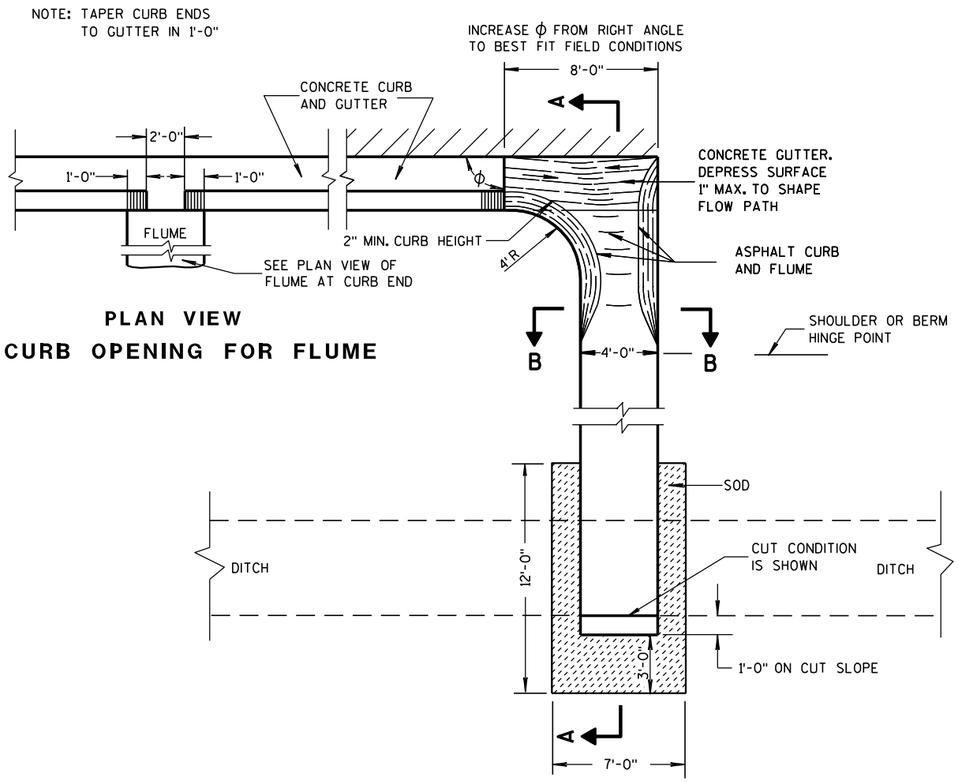
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

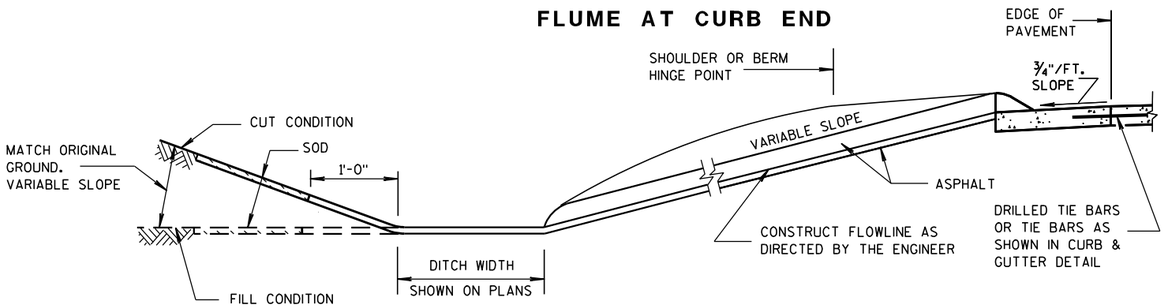
S.D.D. 8 D 1-18

ASPHALTIC FLUME

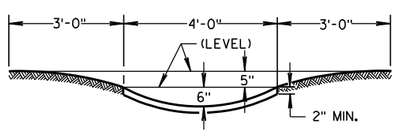


PLAN VIEW
CURB OPENING FOR FLUME

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.

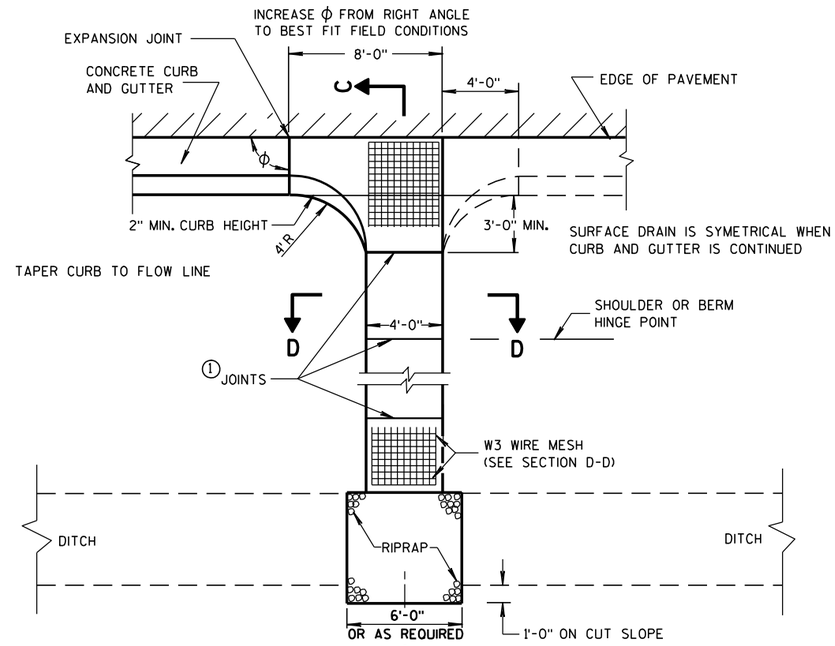
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

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.

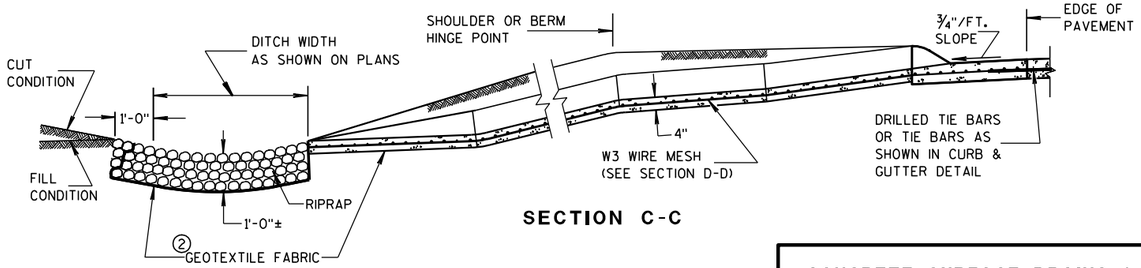
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

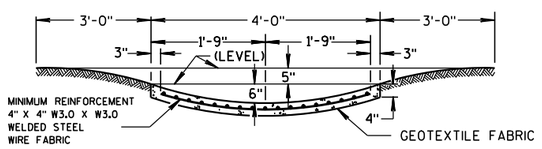
③ CONCRETE SURFACE DRAIN



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 — MENT

FHWA

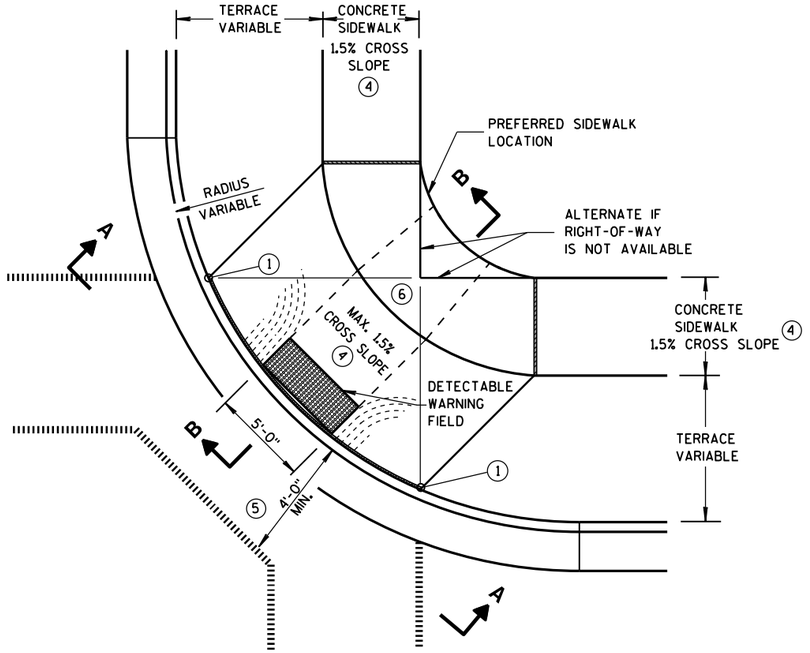
410

6

S.D.D. 8 D 4-5

6

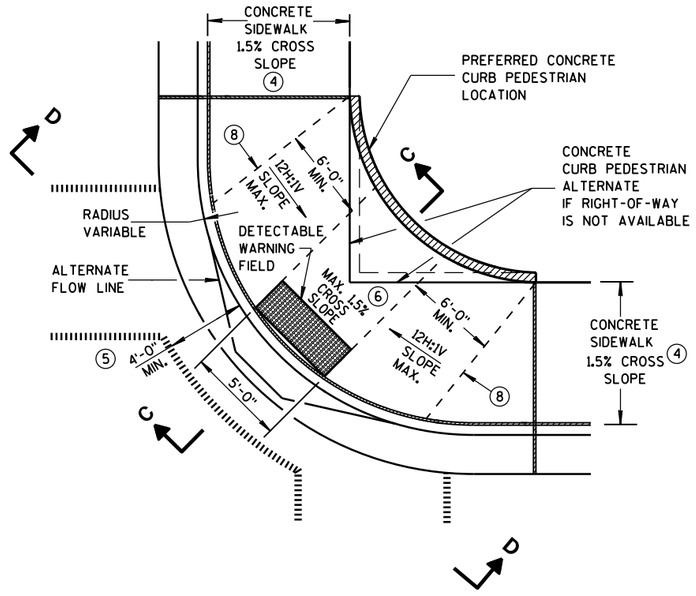
S.D.D. 8 D 4-5



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.

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%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

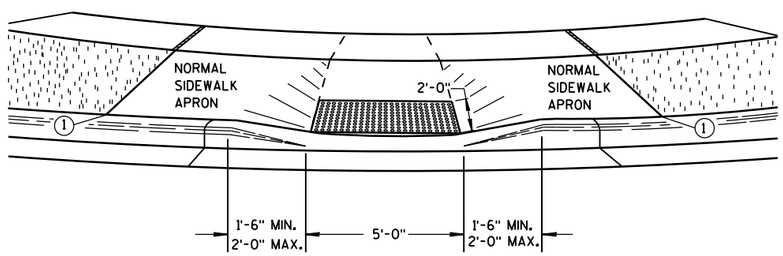
(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

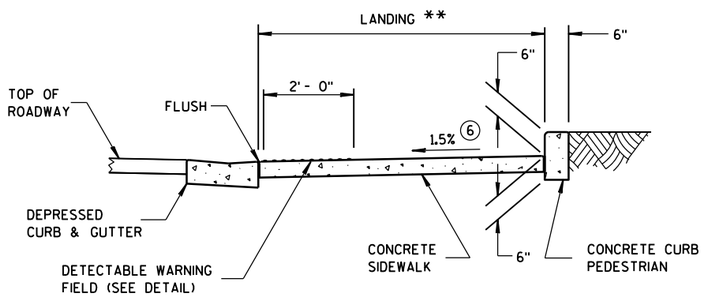
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A-A

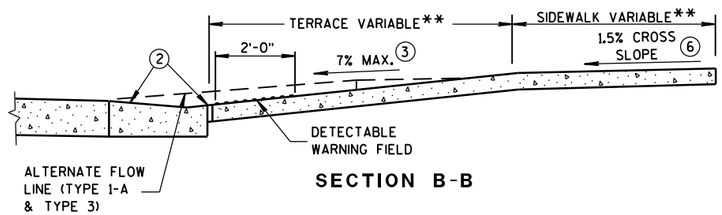
** WIDTH SHOWN ELSEWHERE IN THE PLANS



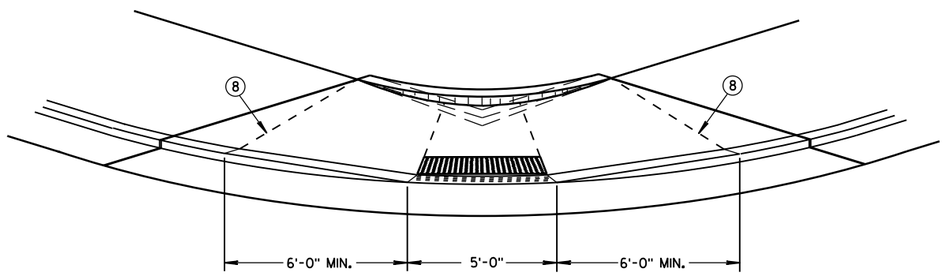
SECTION C-C

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



SECTION B-B



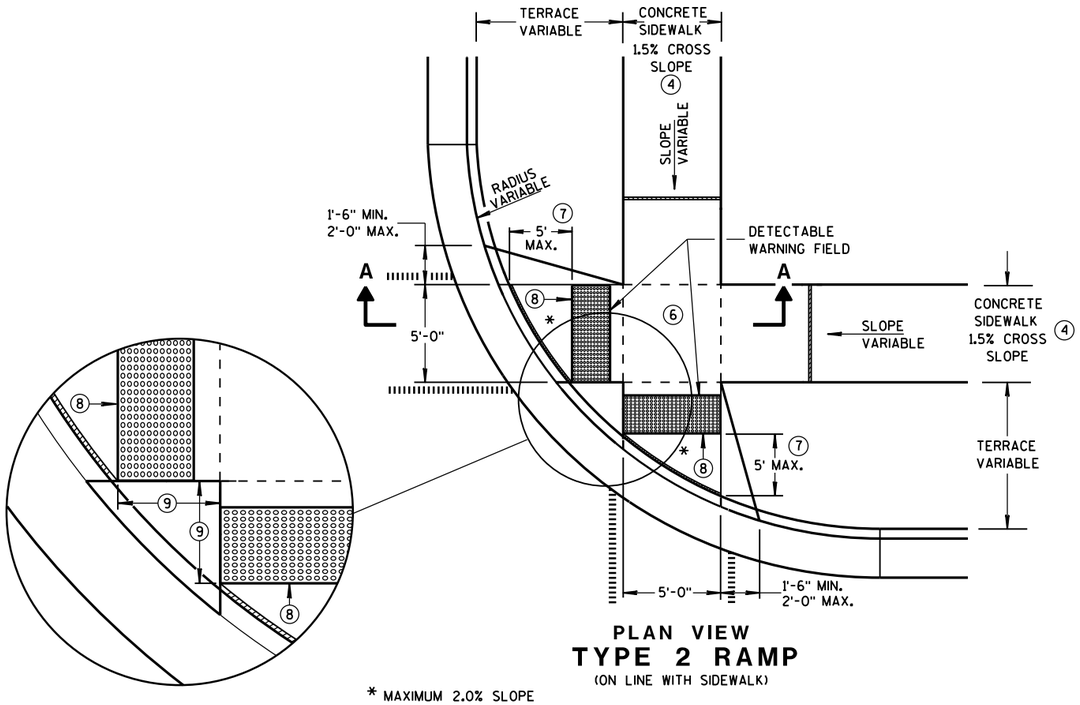
VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-16a

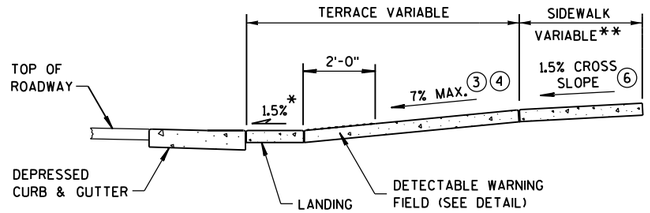


PLAN VIEW

TYPE 2 RAMP

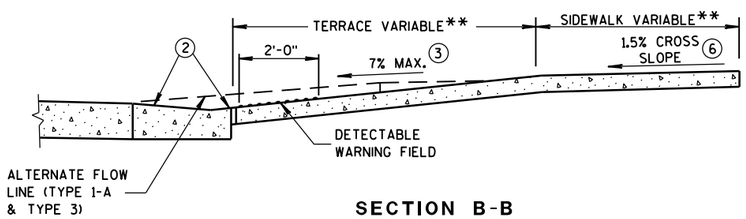
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



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.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

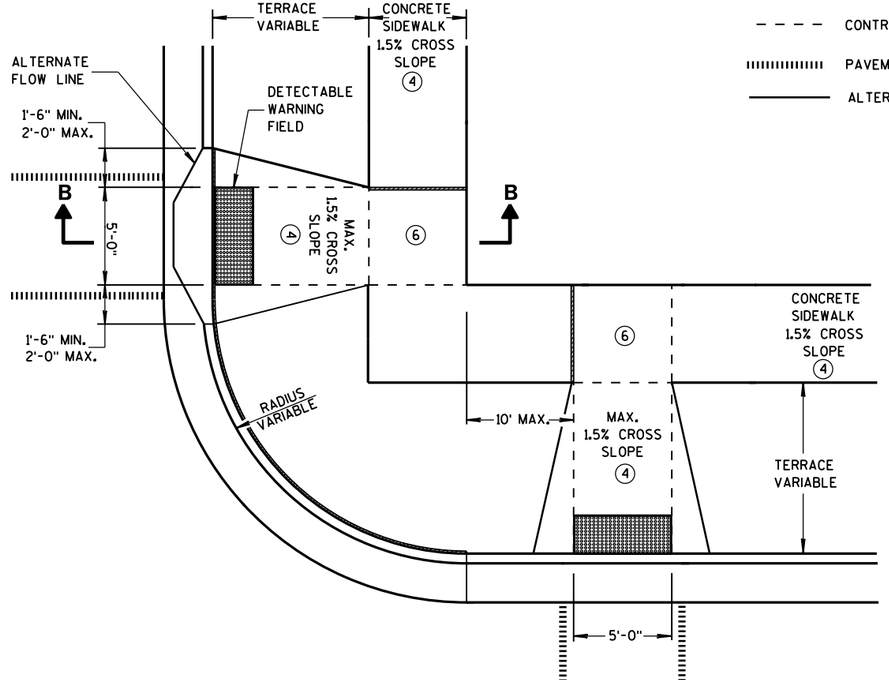
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. 2" MINIMUM CURB HEIGHT.

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

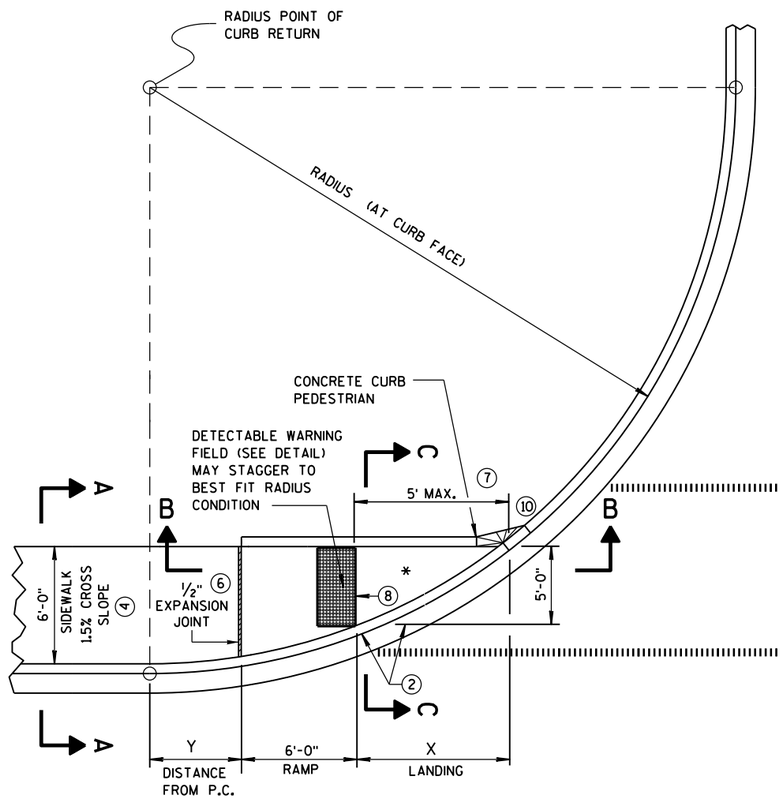
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 8 D 5-16b

6

S.D.D. 8 D 5-16b

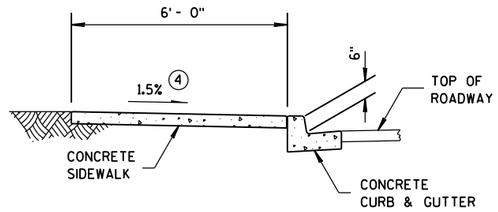


CURB RAMP TYPE 4A

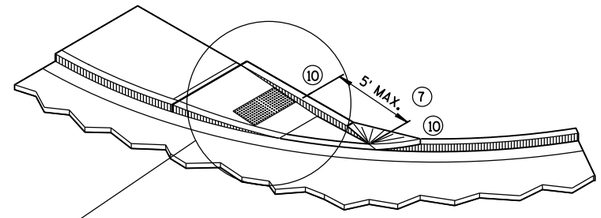
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

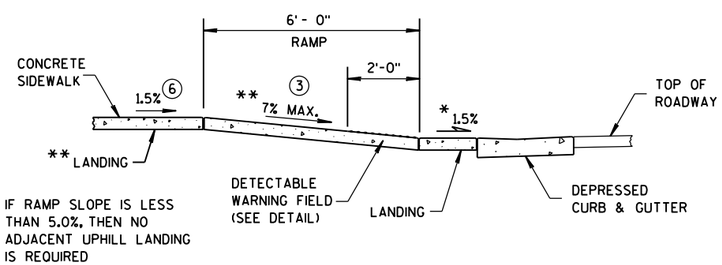
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

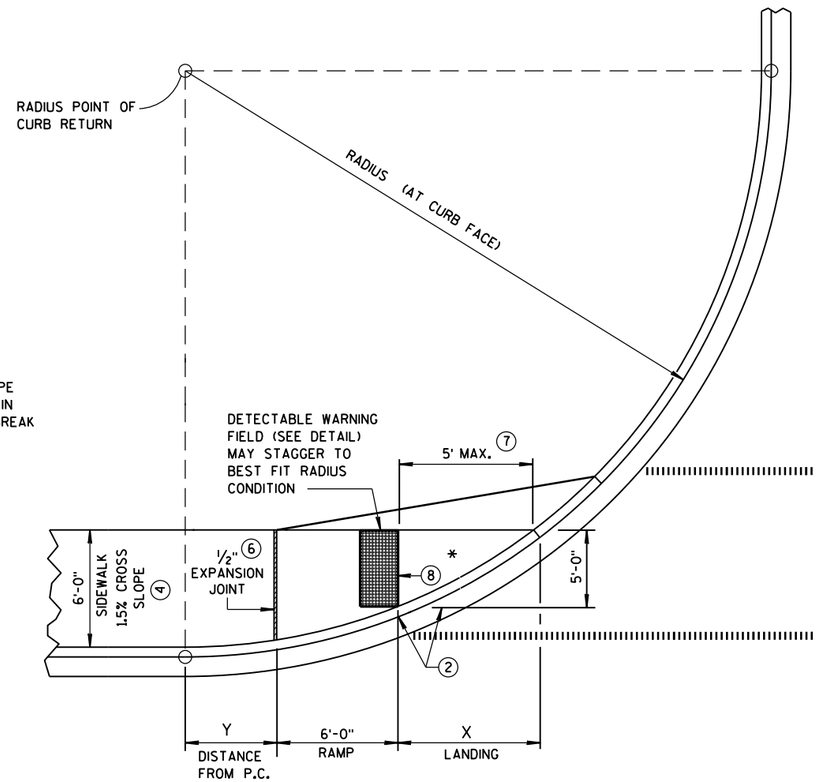
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

SECTION C-C FOR TYPE 4A



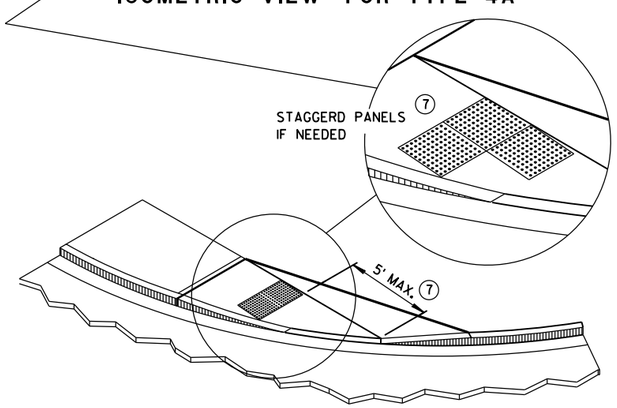
SECTION B-B FOR TYPE 4A



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4A1

PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

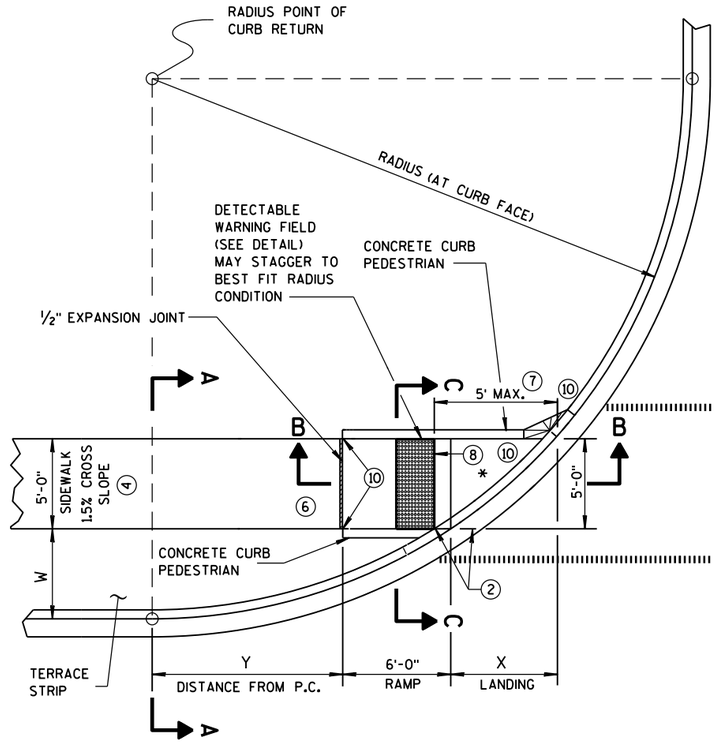
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

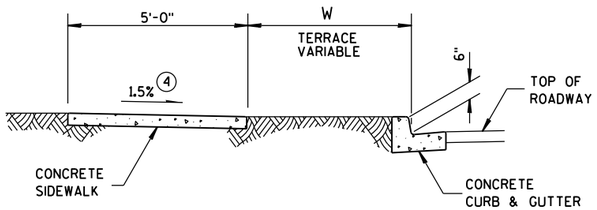
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

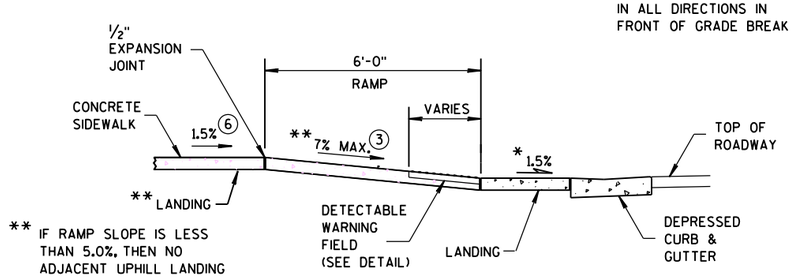
S.D.D. 8 D 5-16c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



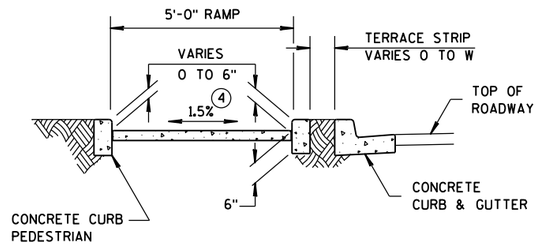
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C-C FOR TYPE 4B

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

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

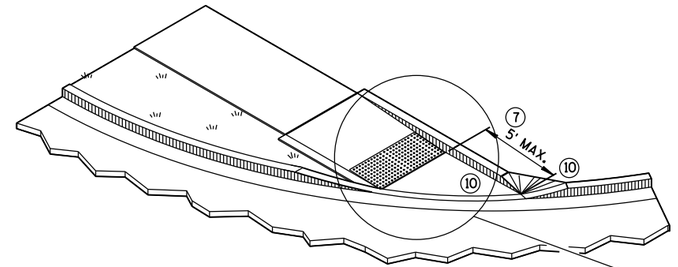
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

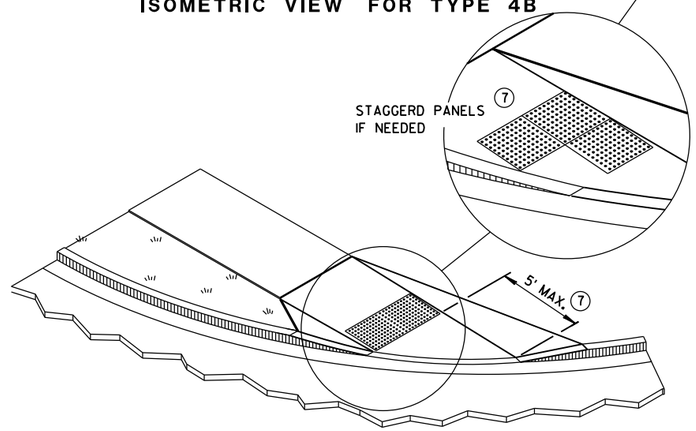
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

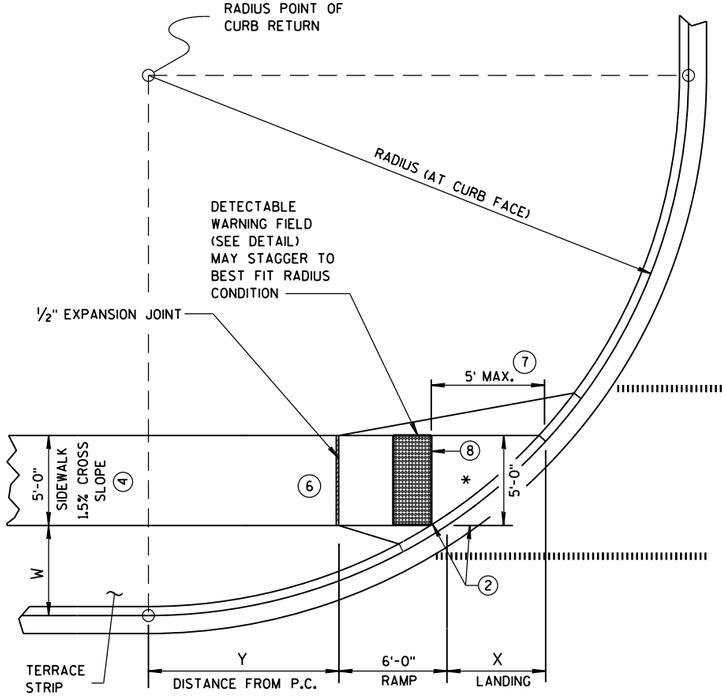
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



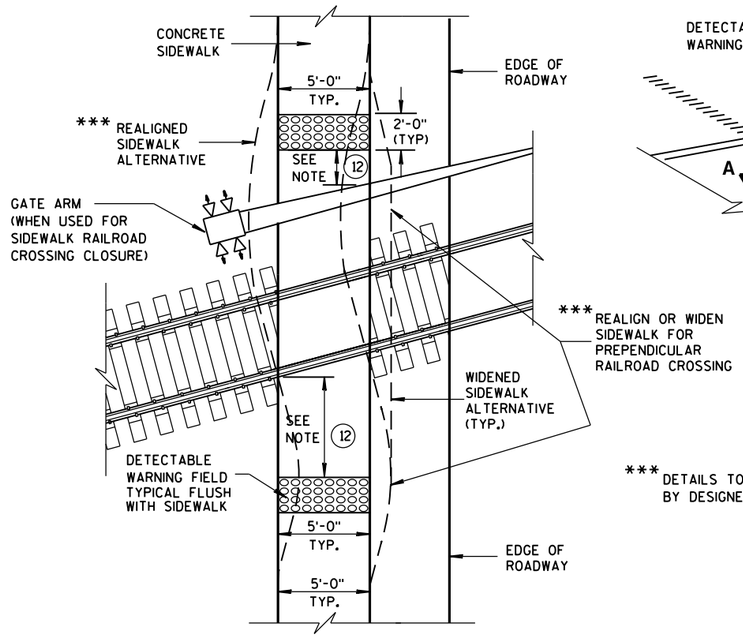
CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

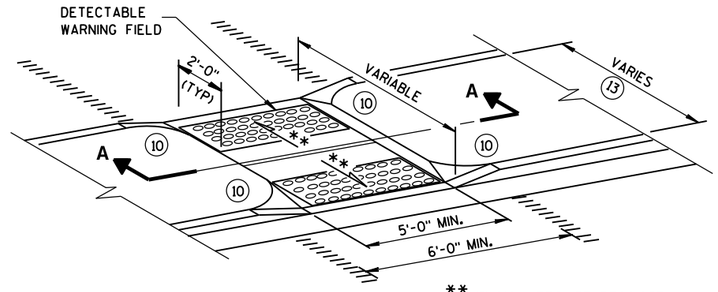
6

S.D.D. 8 D 5-16d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



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.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

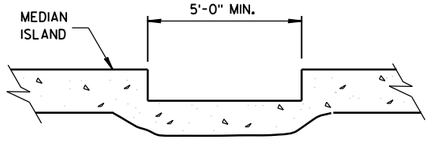
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) 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.

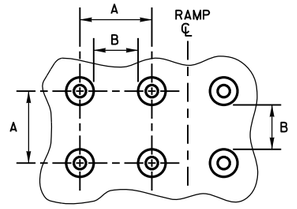
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



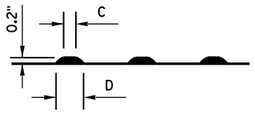
SECTION A-A

	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.

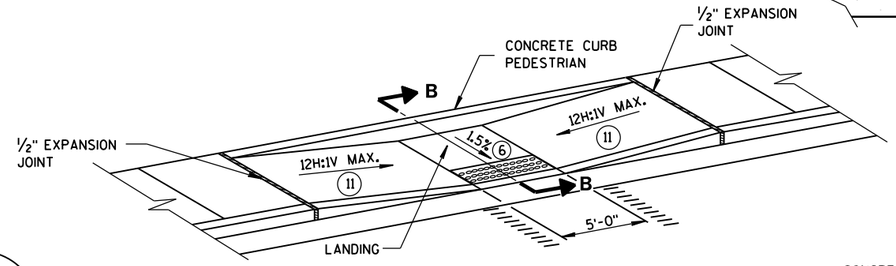


PLAN VIEW

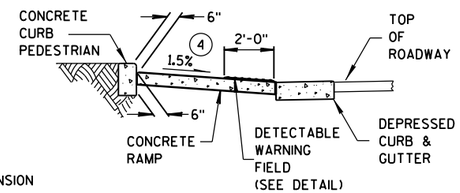


ELEVATION VIEW

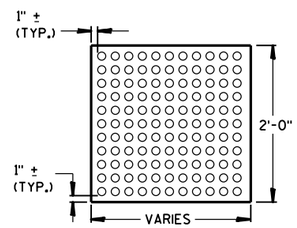
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



MID-BLOCK CROSSING
TYPE 7A

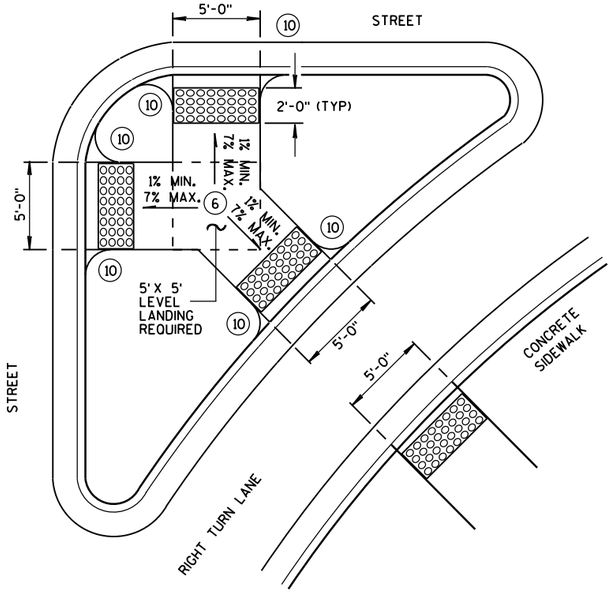


SECTION B-B

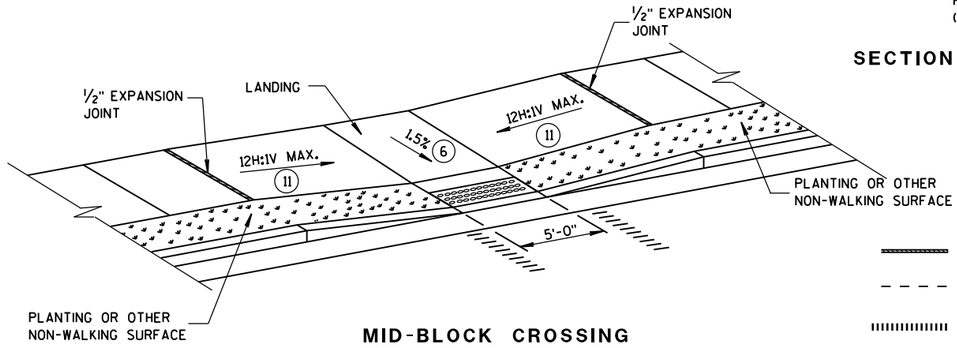


PLAN VIEW
DETECTABLE WARNING FIELD (TYPICAL)

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



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

- 1/2" 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

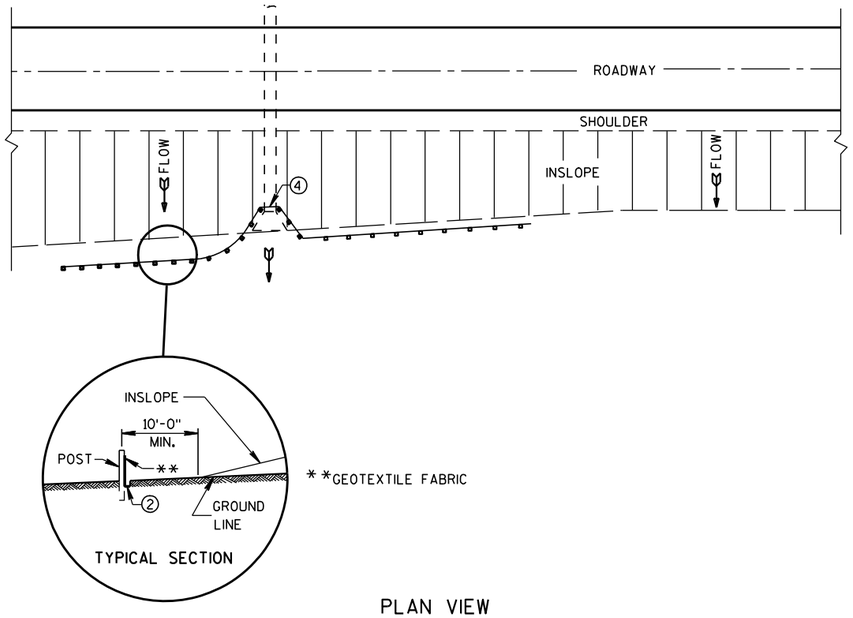
APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS [illegible]ENT ENGINEER
FHWA

6

S.D.D. 8 D 5-16e

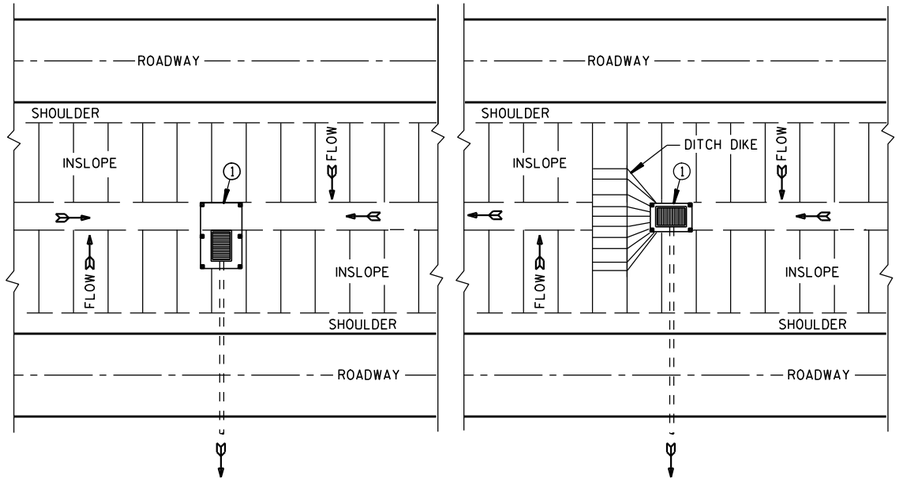
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S.D.D. 8 D 5-16e



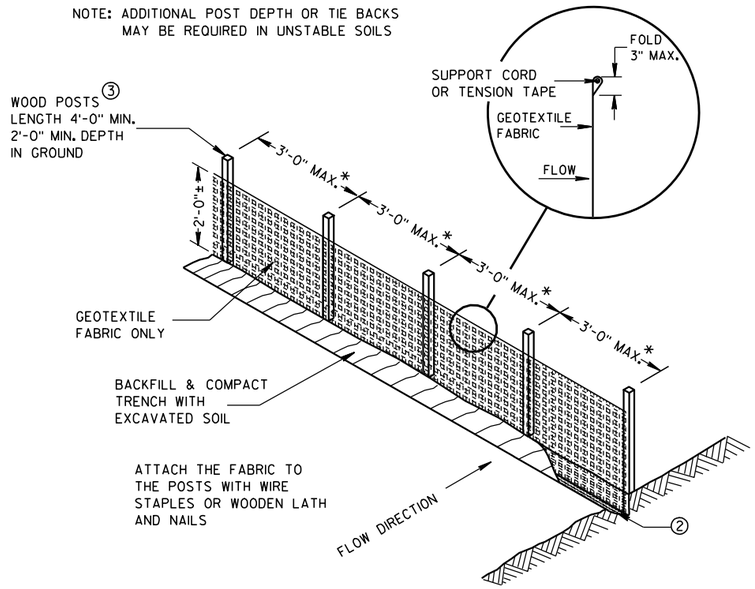
PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



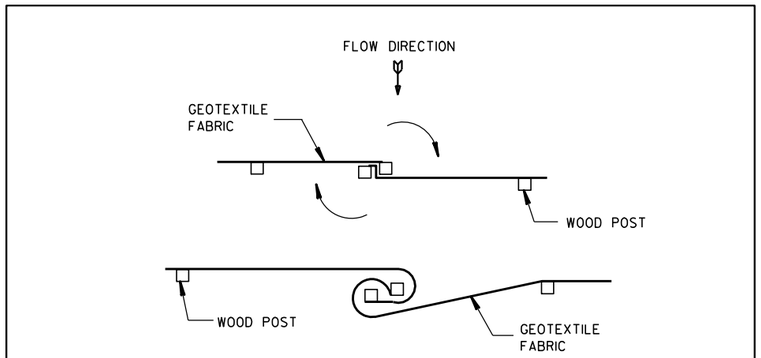
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS



*NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE

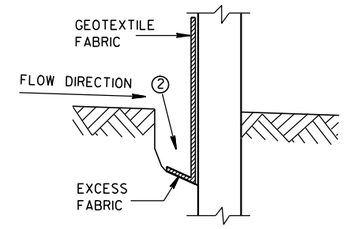


JOINING TWO LENGTHS OF SILT FENCE 5

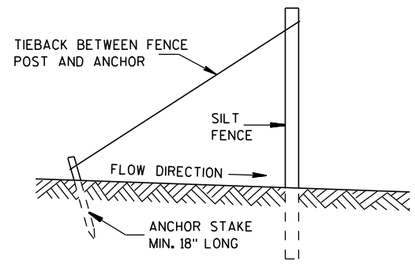
GENERAL NOTES

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 TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

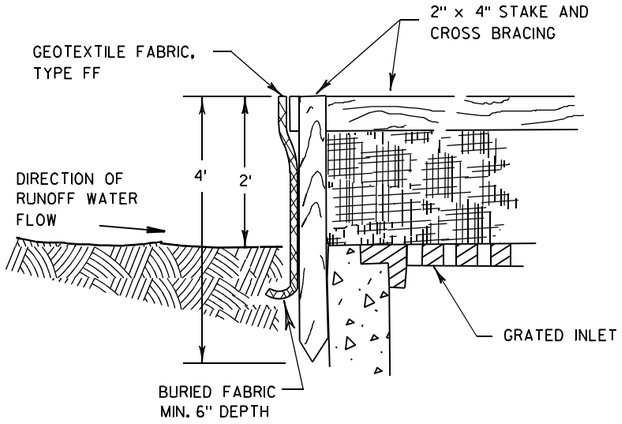
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

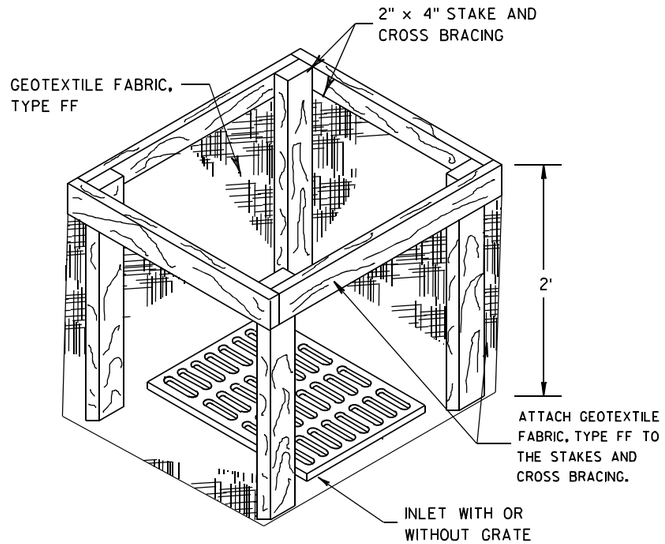
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S.D.D. 8 E 9-6

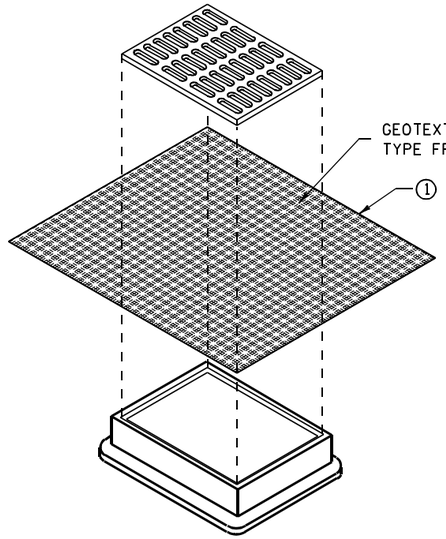
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S.D.D. 8 E 9-6



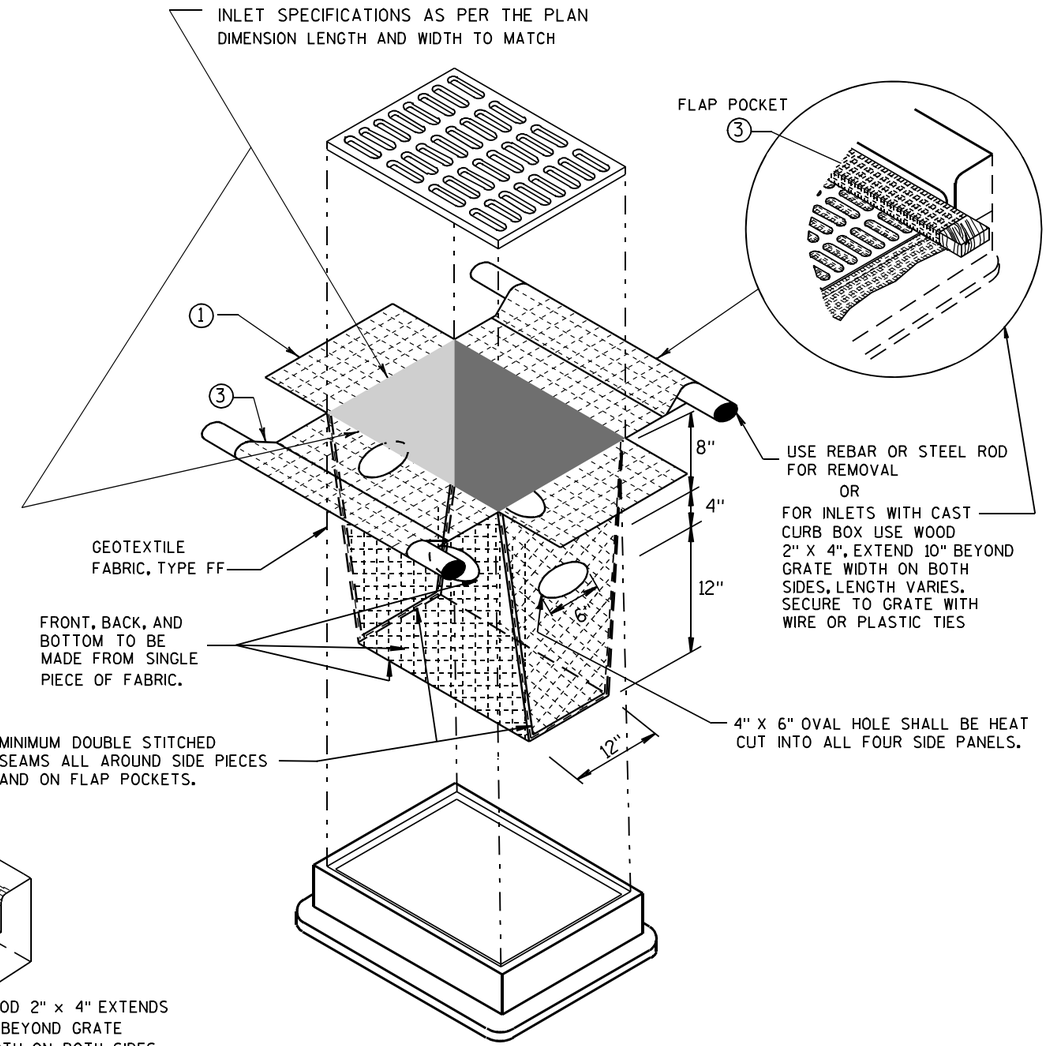


INLET PROTECTION, TYPE A



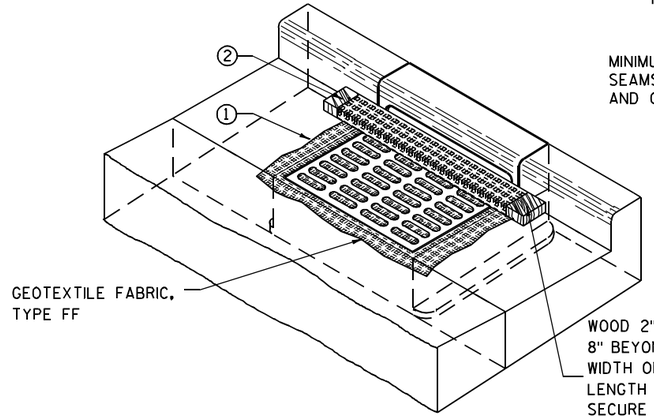
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 E 10-2

6

S.D.D. 8 E 10-2

METAL APRON ENDWALLS

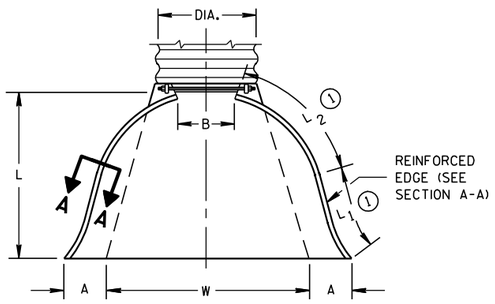
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 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

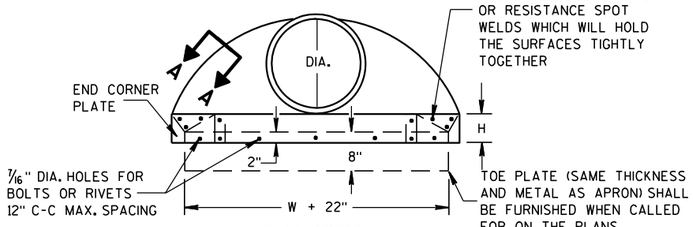
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE
	T	A	B	C	D	E	G	
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

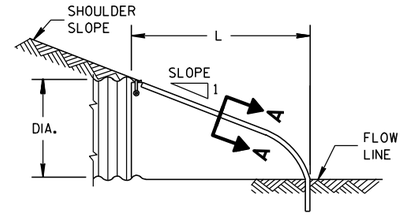
*MINIMUM
**MAXIMUM



PLAN VIEW

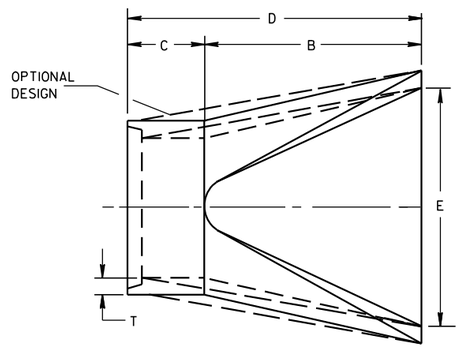


END VIEW

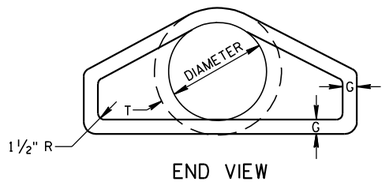


SIDE ELEVATION

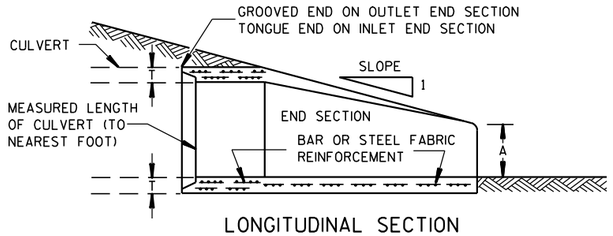
METAL ENDWALLS



PLAN

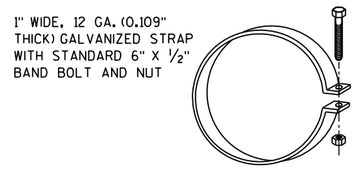


END VIEW



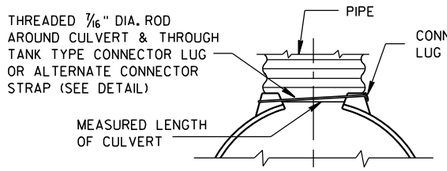
LONGITUDINAL SECTION

CONCRETE ENDWALLS

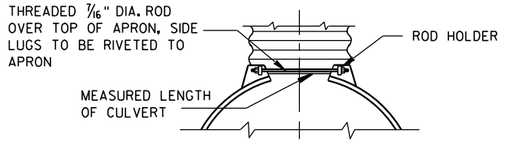


ALTERNATE FOR TYPE 1 CONNECTION

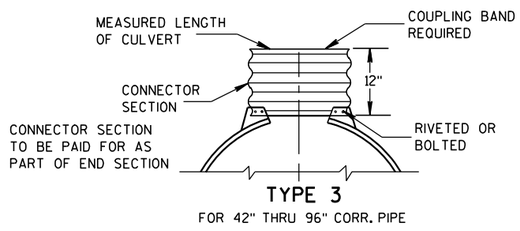
END SECTION CONNECTOR STRAP



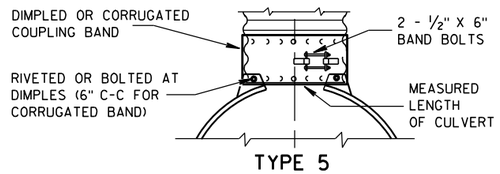
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

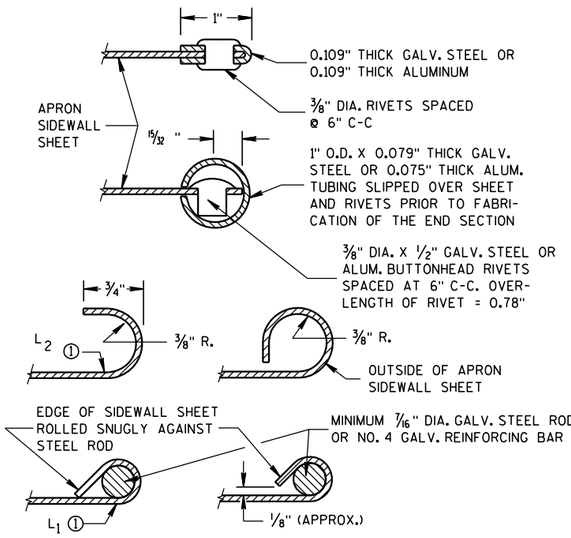
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

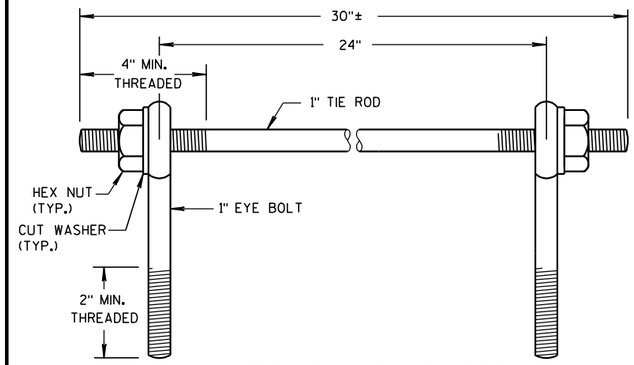
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

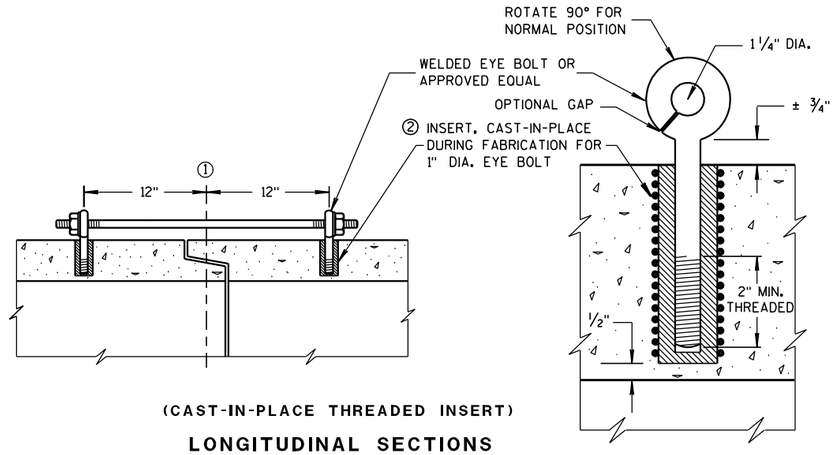
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



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.

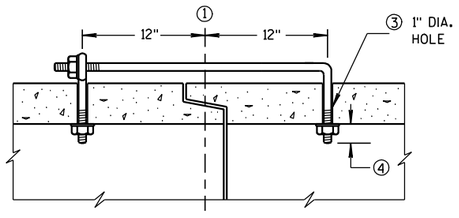
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

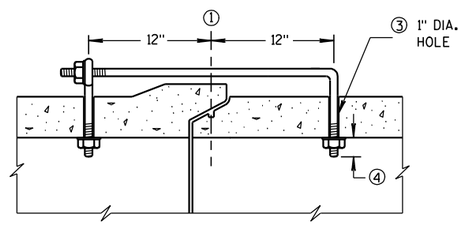
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

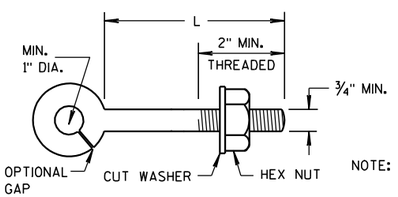


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

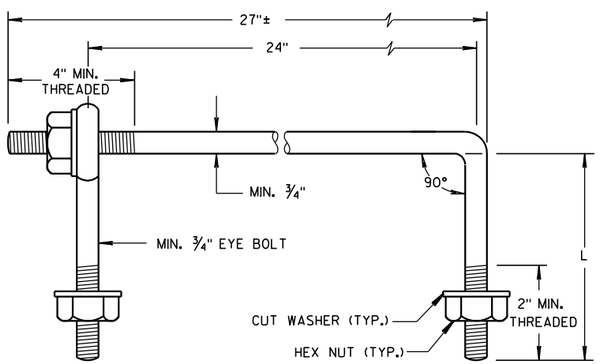
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

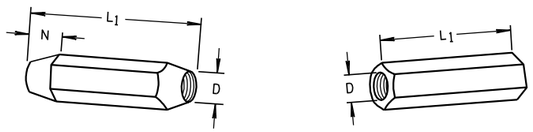
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

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

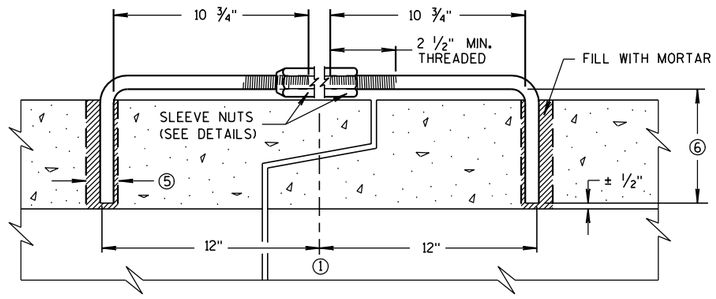
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

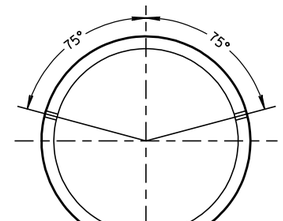
SLEEVE NUTS



LONGITUDINAL SECTION

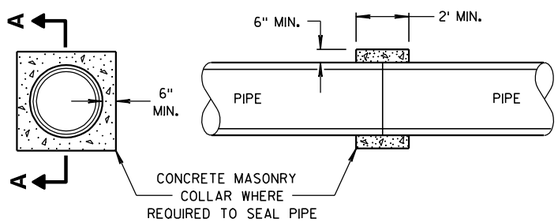
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

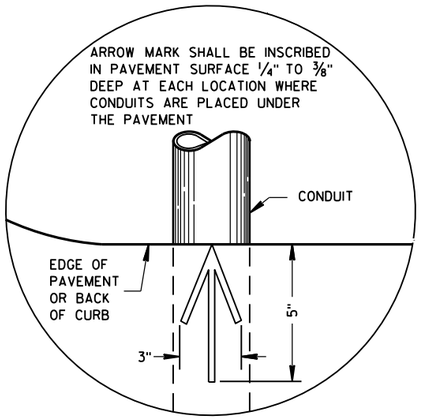
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
419
FHWA

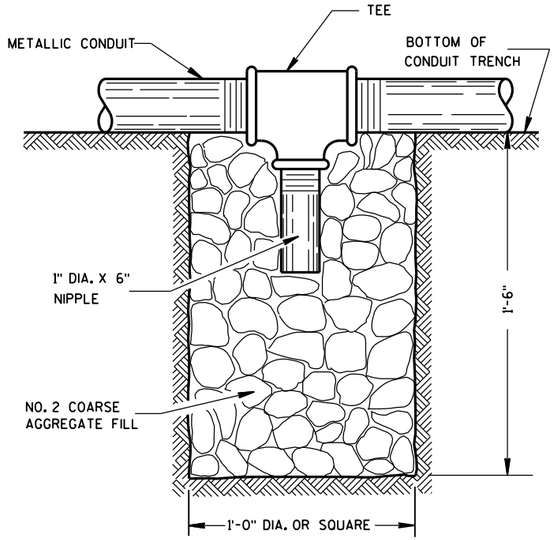
6

S.D.D. 8 F 4-7



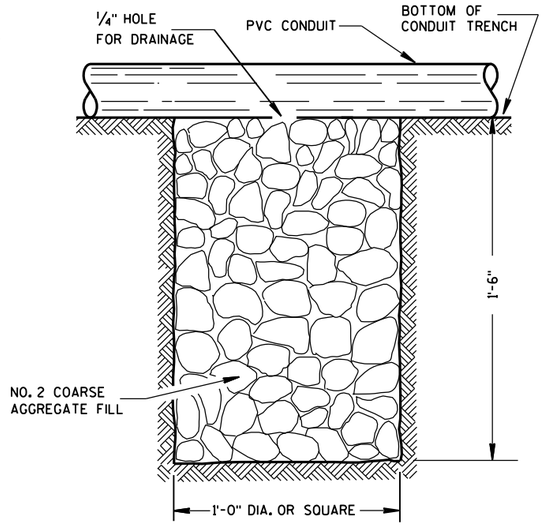
PLAN VIEW

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.

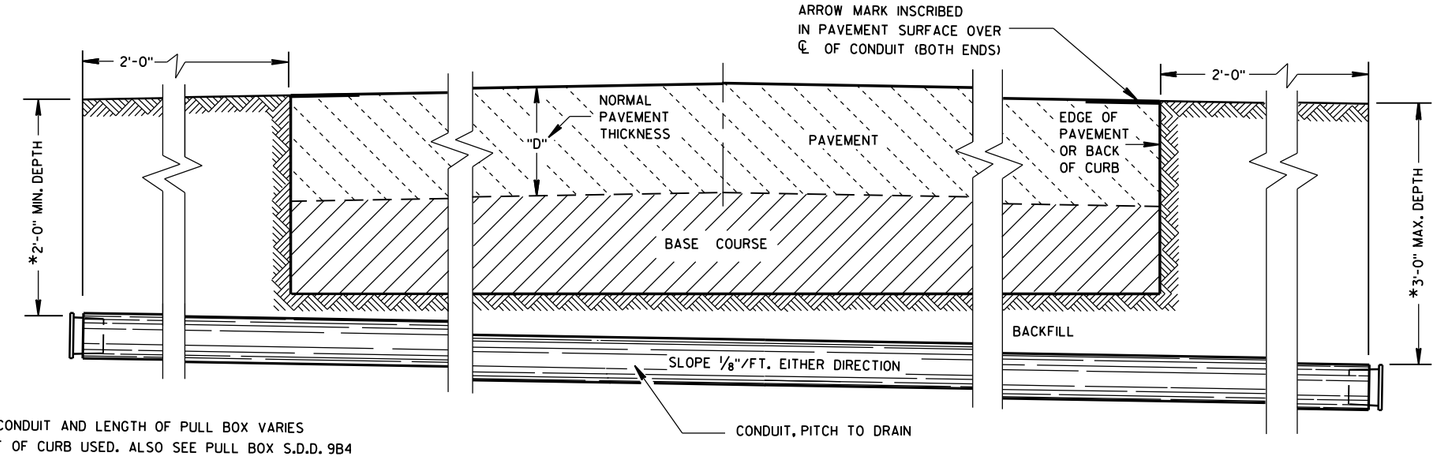
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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.).

TRACER 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
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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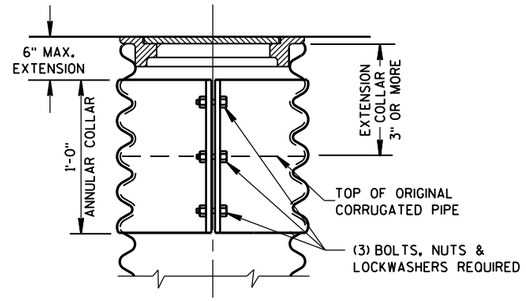
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

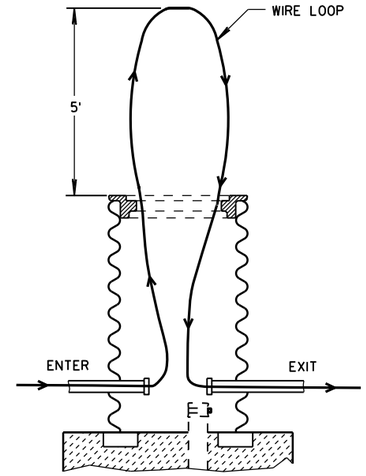
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	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.

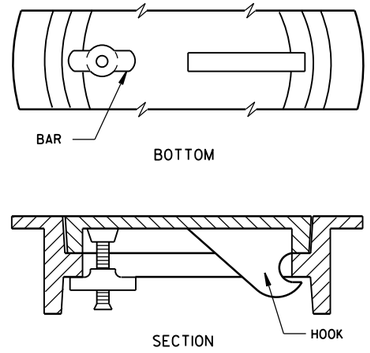
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

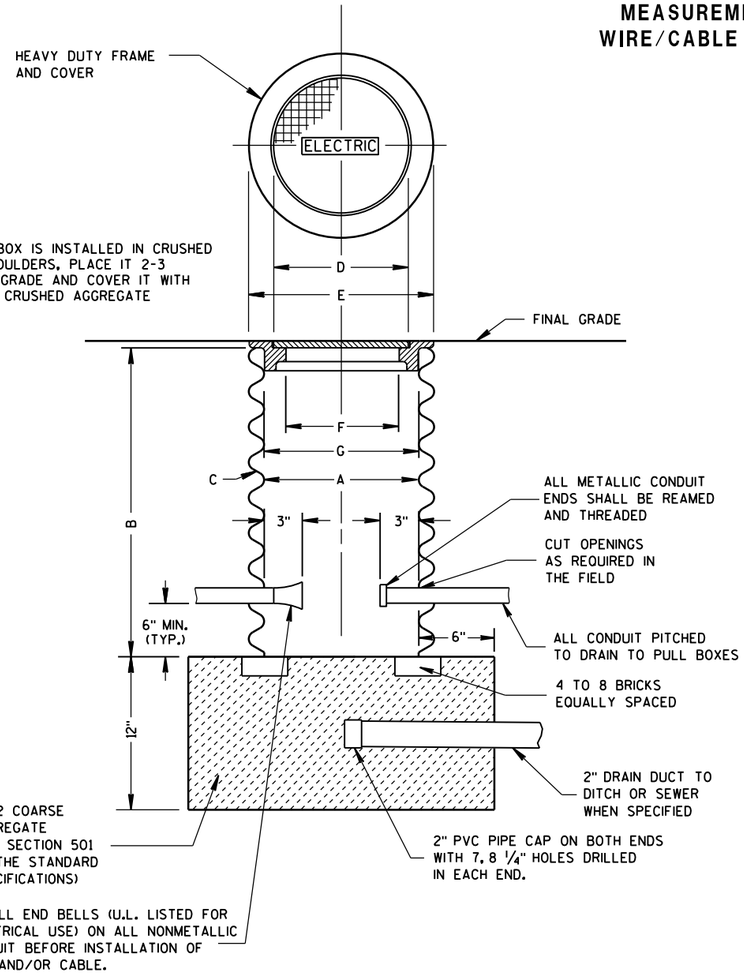


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



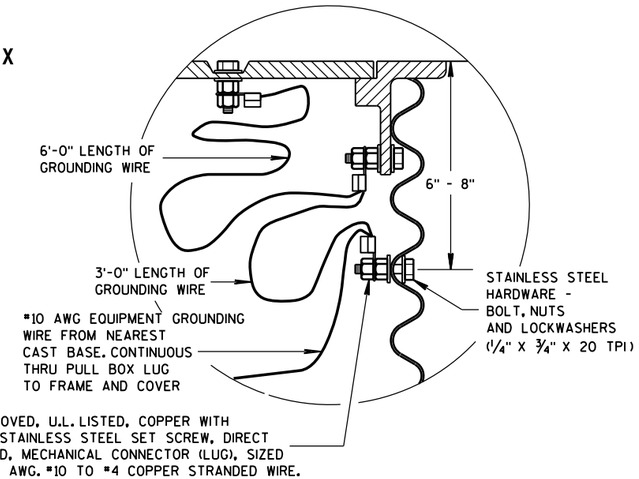
ALTERNATE COVER (LOCKING)

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

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.

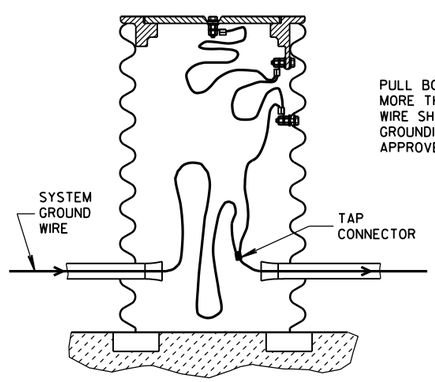
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

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.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

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 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

PULL BOX

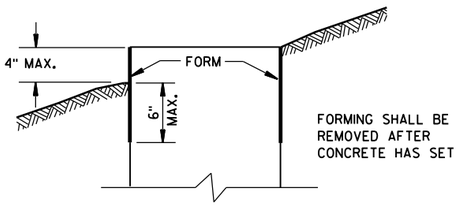
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FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
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 1, TYPE 2, TYPE 5, AND TYPE 6 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 OF THE STANDARD SPECIFICATIONS.

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.

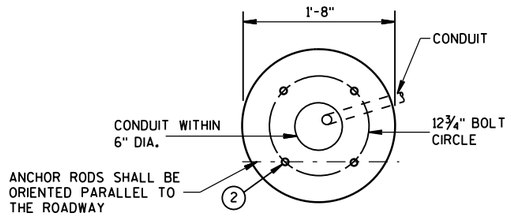
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

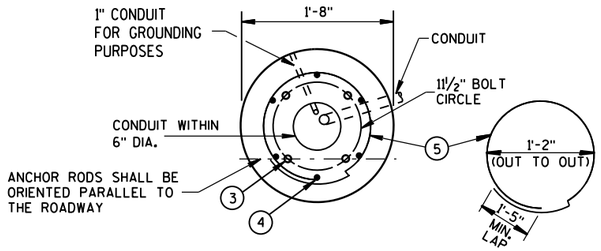
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

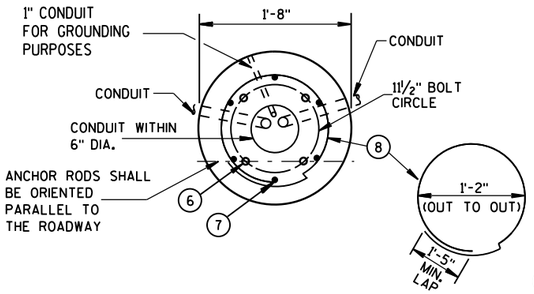
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



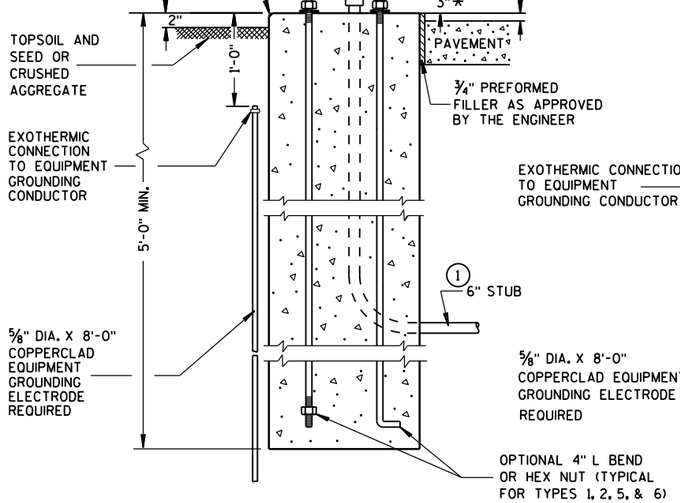




FORM ALL EXPOSED CONCRETE. PROVIDE 1" CHAMFER ALL AROUND

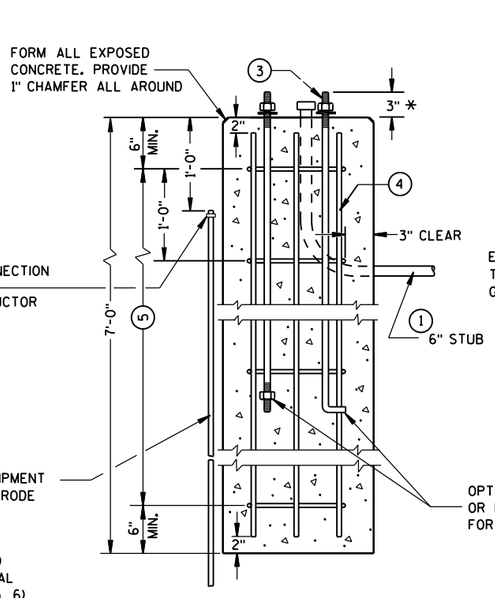
HALF SECTION IN UNPAVED AREA

(TYPICAL FOR TYPES 1, 2, 5, & 6)

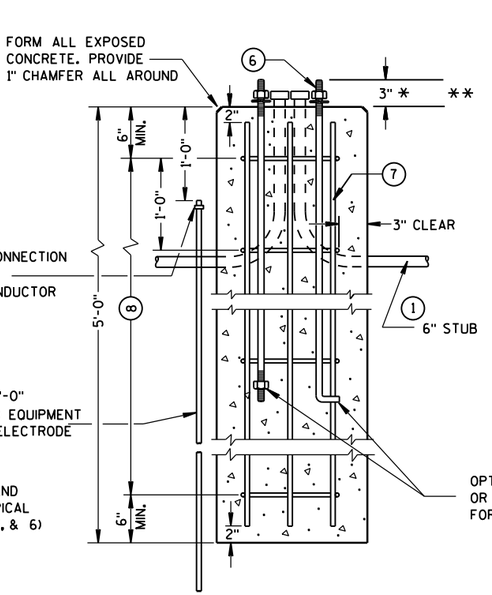


HALF SECTION IN PAVEMENT

(TYPICAL FOR TYPES 1, 2, 5, & 6)



TYPE 2



TYPE 5 & 6

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, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
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S.D.D. 9 C 2-7

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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.

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, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

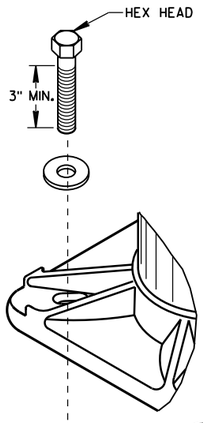
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

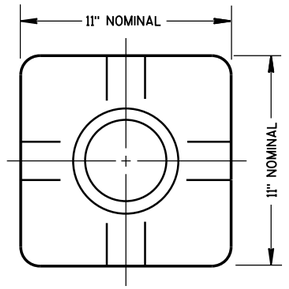
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

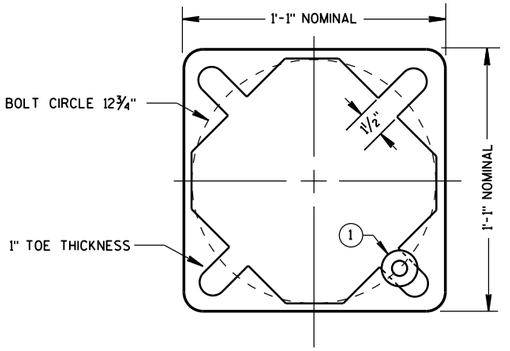
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

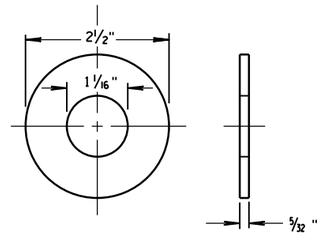




TOP VIEW
(PEDESTAL BASE)

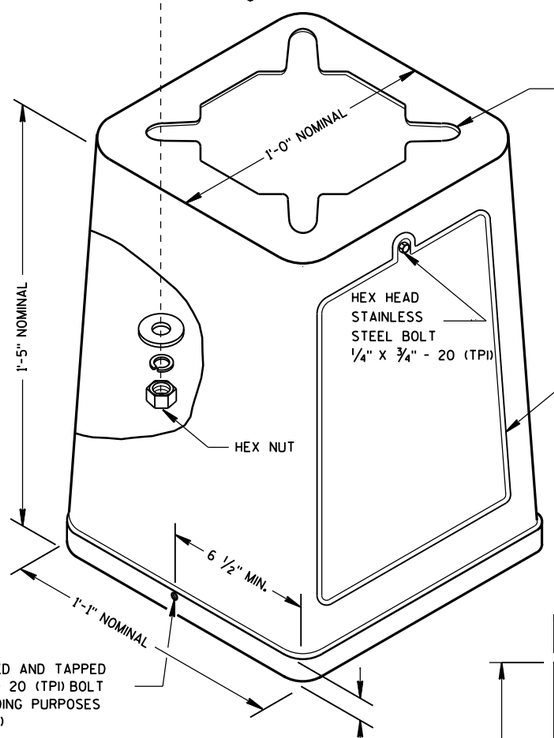


BOTTOM VIEW
(PEDESTAL BASE)

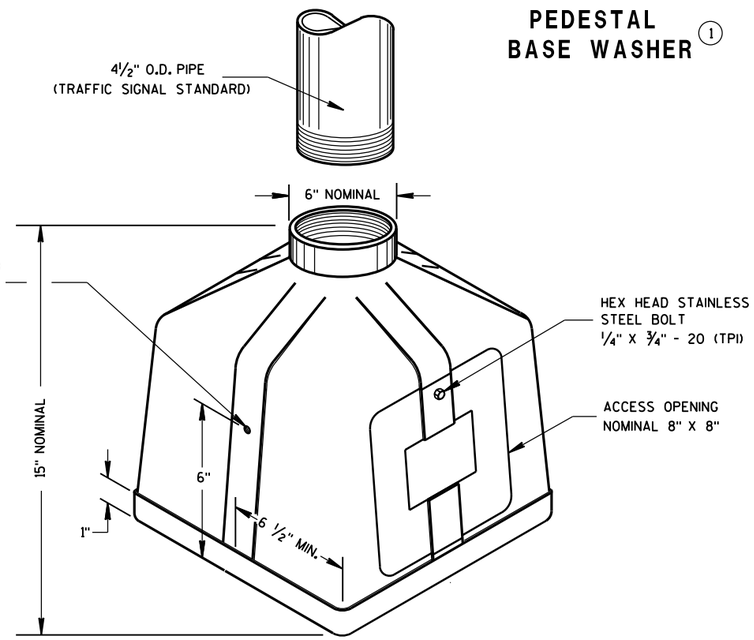


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

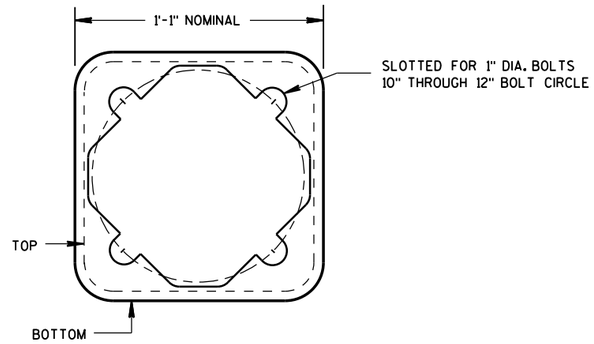


ISOMETRIC VIEW

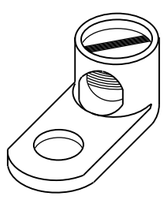


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

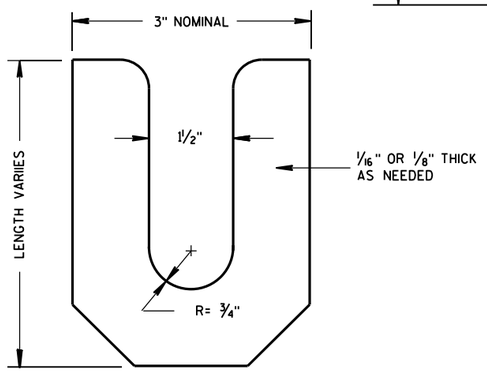


TYPICAL MECHANICAL CONNECTOR LUG

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
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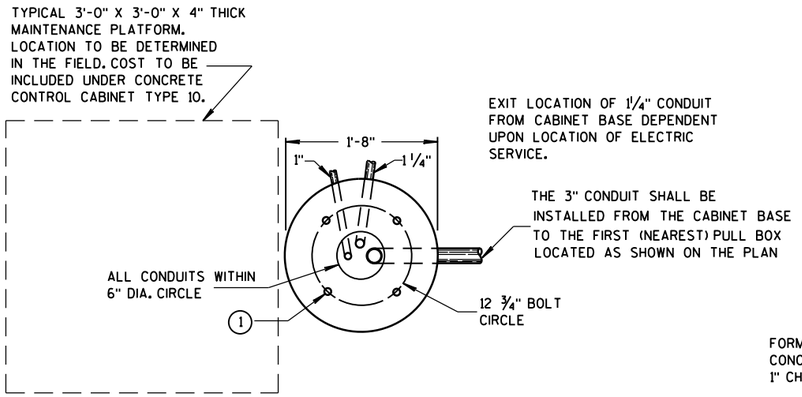
S.D.D. 9 C 3-4

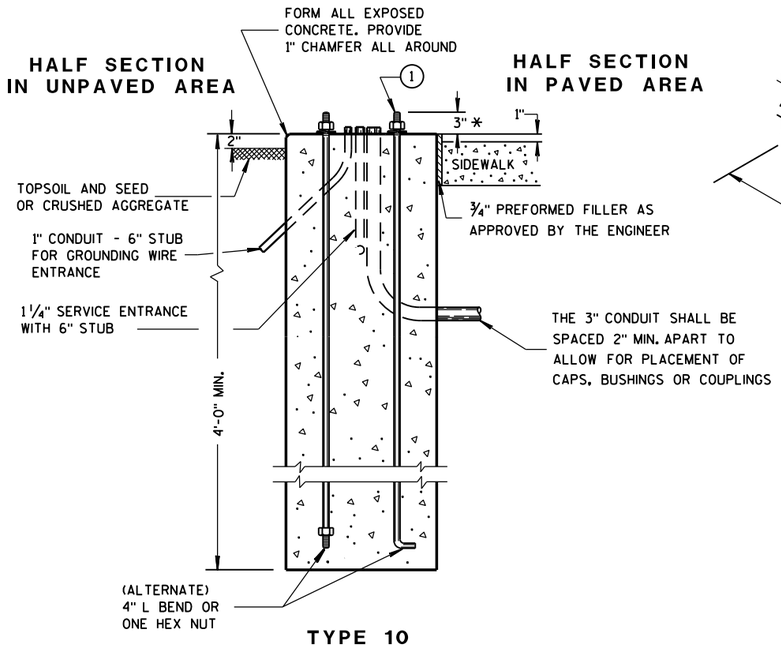
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S.D.D. 9 C 3-4

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65 *

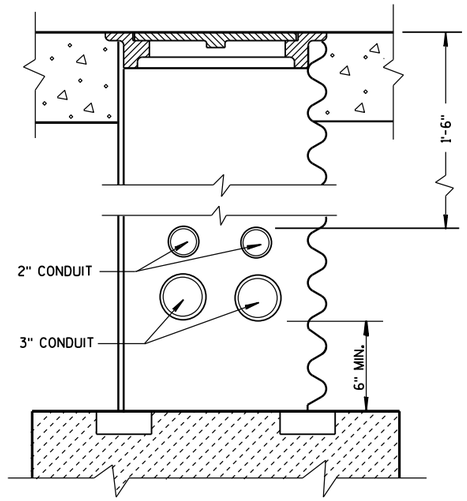
* INCLUDES MAINTENANCE PLATFORM.





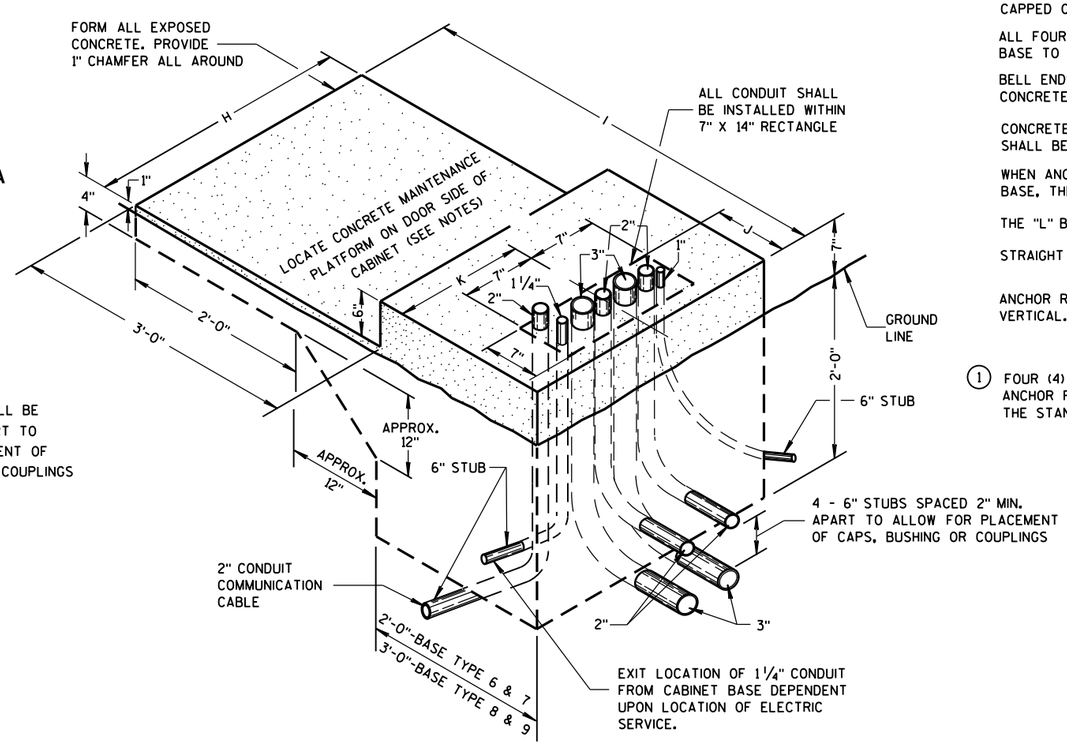
TYPE 10

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.



CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6".
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

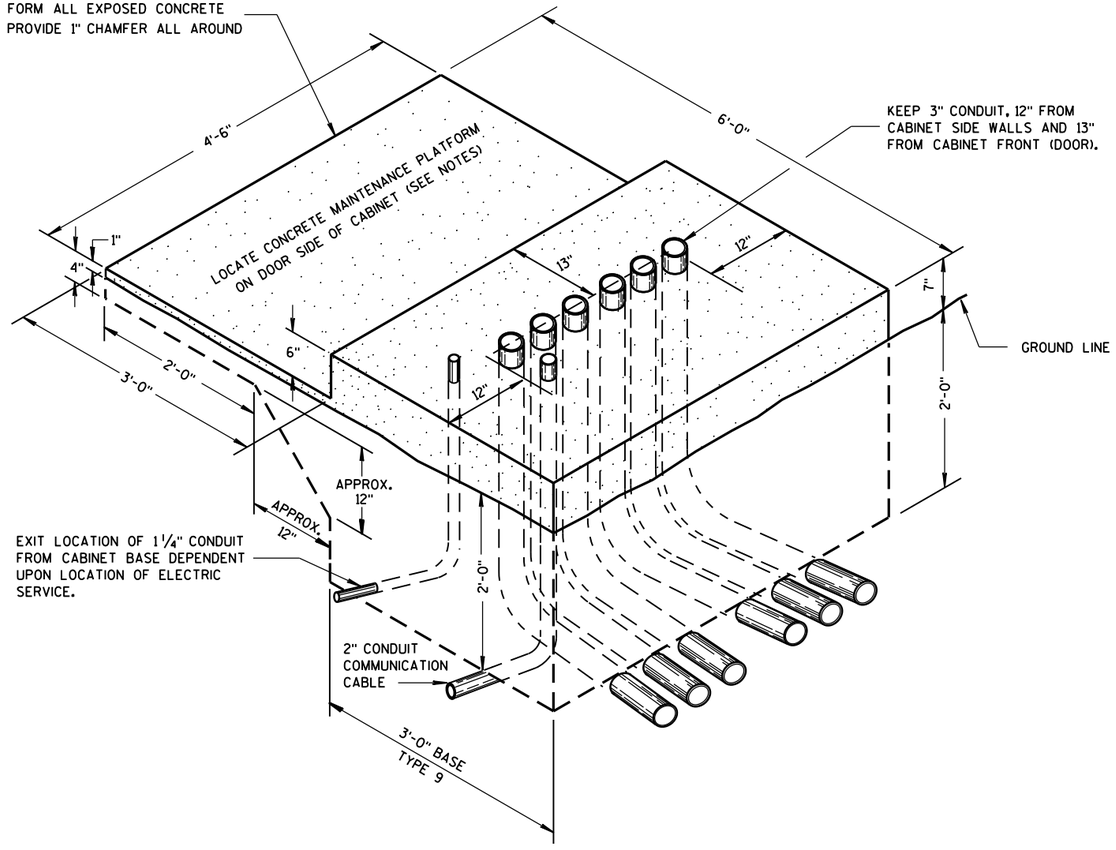
CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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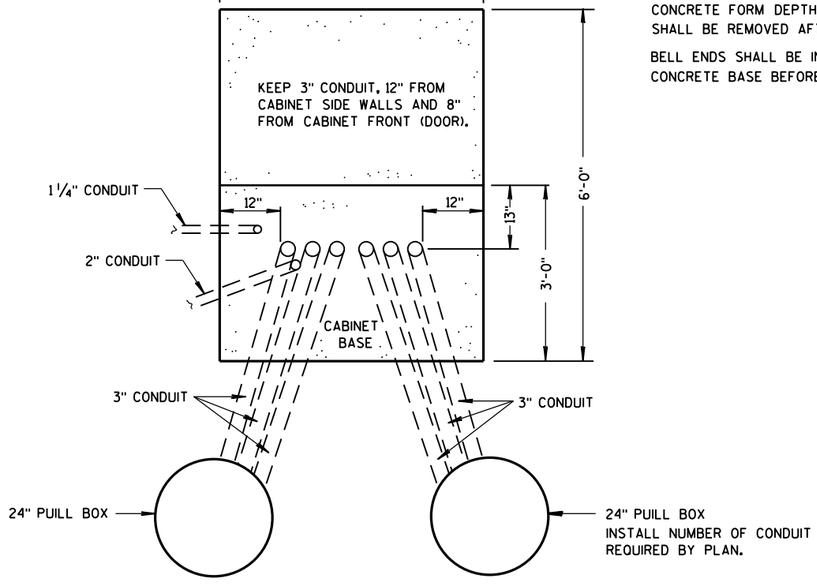
S.D.D. 9 C 5-9



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

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.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 425
FHWA

6
S.D.D. 9 C 6-7

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 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 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

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. CONDUIT IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

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).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE 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.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

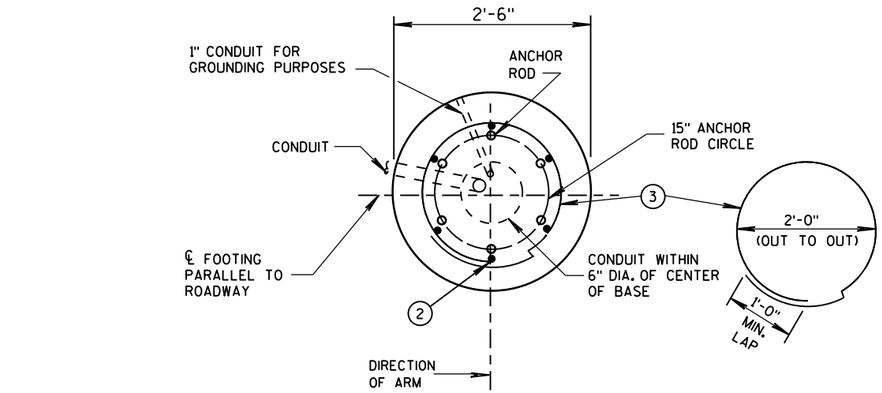
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

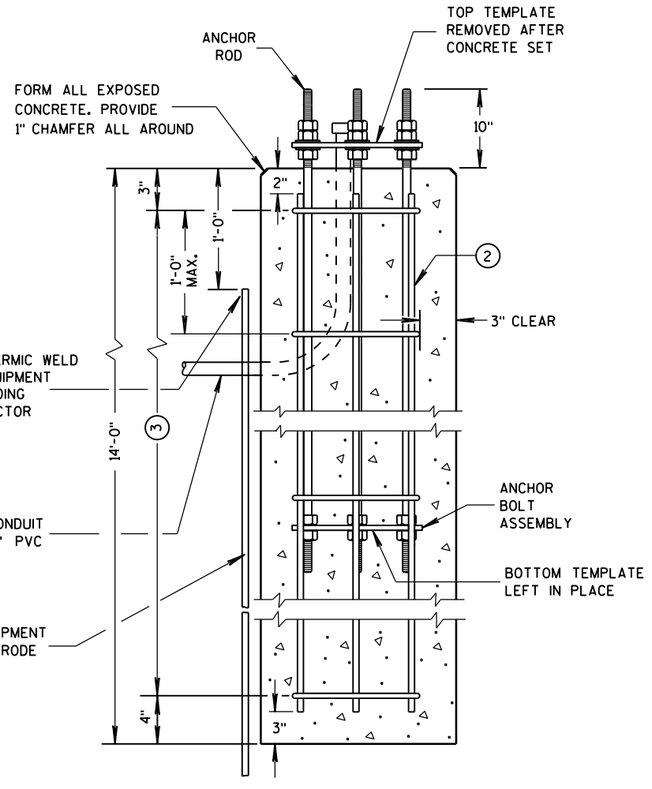
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES, (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (15) NO. 4 X 7'-4" BAR STEEL REINFORCEMENT @ 1'-0" MAX. C-C.

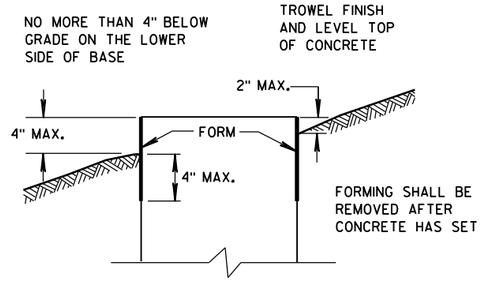
CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, AASHTO M314 GRADE 55	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.



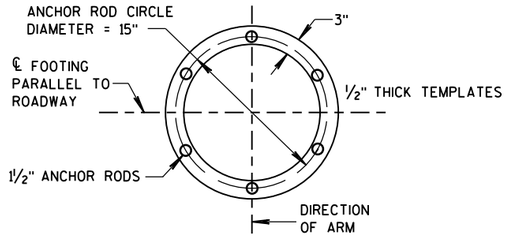


CONCRETE BASE TYPE 10
(FOR TYPE 9 & 10 POLES)

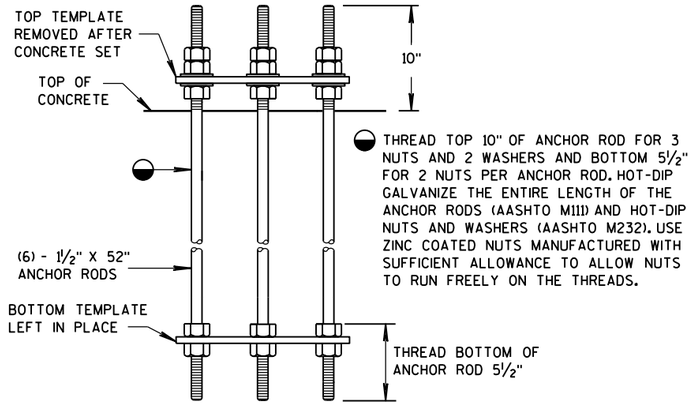
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	69
LBS. OF VERTICAL BAR STEEL	122

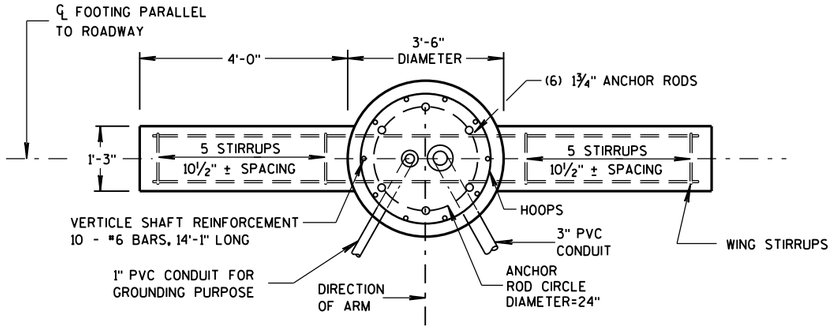
CONCRETE BASE TYPE 10

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

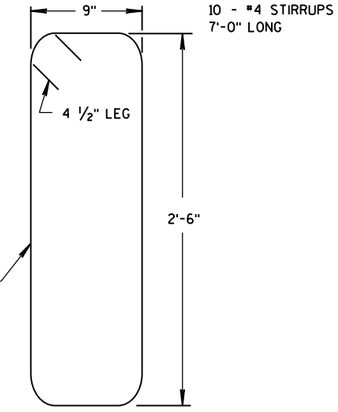
APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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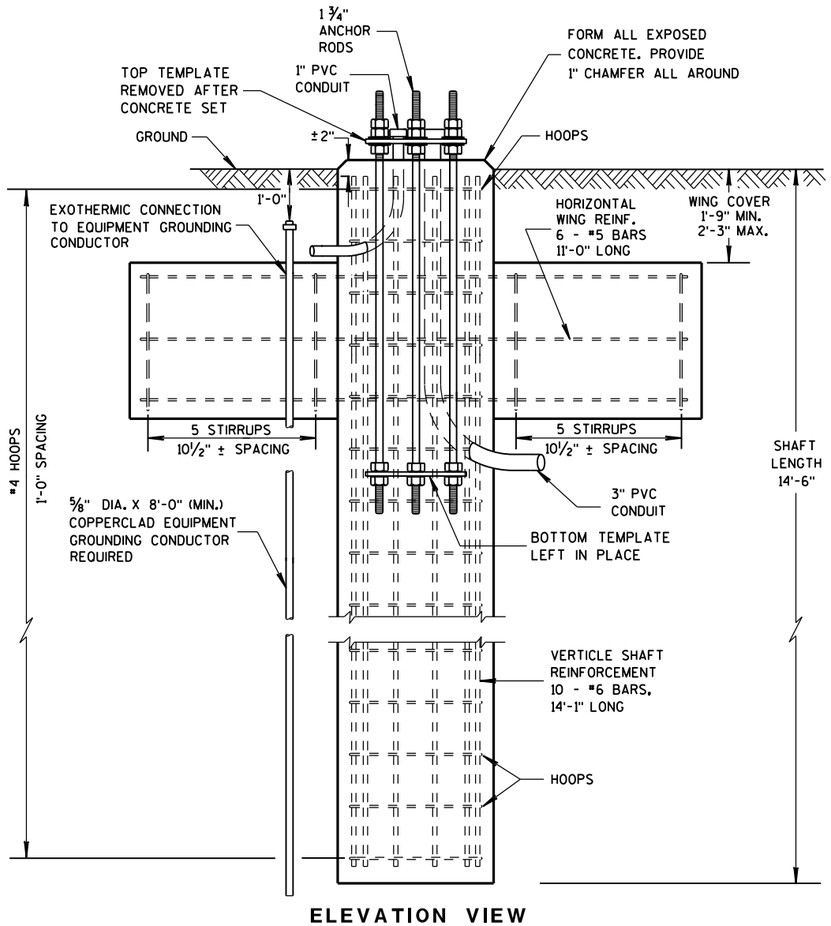
S.D.D. 9 C 11-7



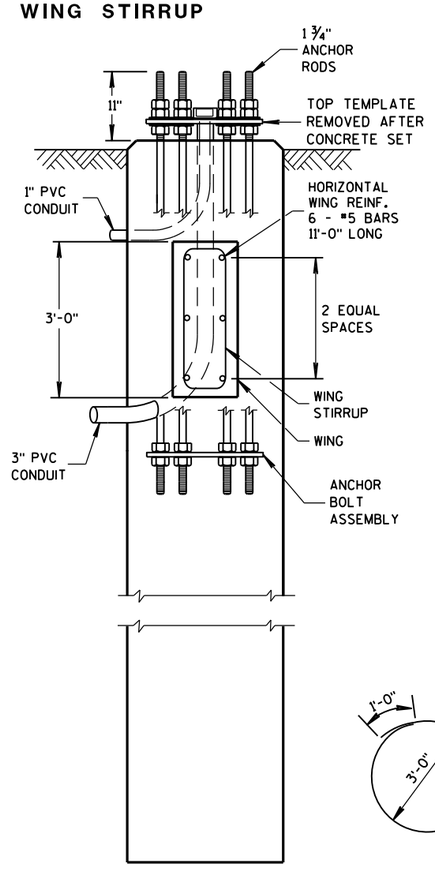
PLAN VIEW



WING STIRRUP

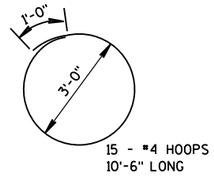


ELEVATION VIEW



SIDE VIEW

DOES NOT SHOW HOOPS OR VERTICAL SHAFT REINFORCEMENT



15 - #4 HOOPS 10'-6" LONG

HOOP DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BASES (SHAFT), BELOW THE WING, 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 BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF THE 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.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE 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.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL 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, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, AASHTO M314 GRADE 55	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

(FOR TYPE 12 & 13 POLES)

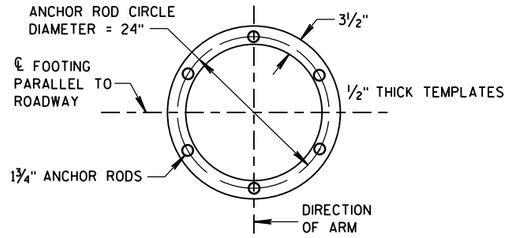
CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 433 LBS.

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.
SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

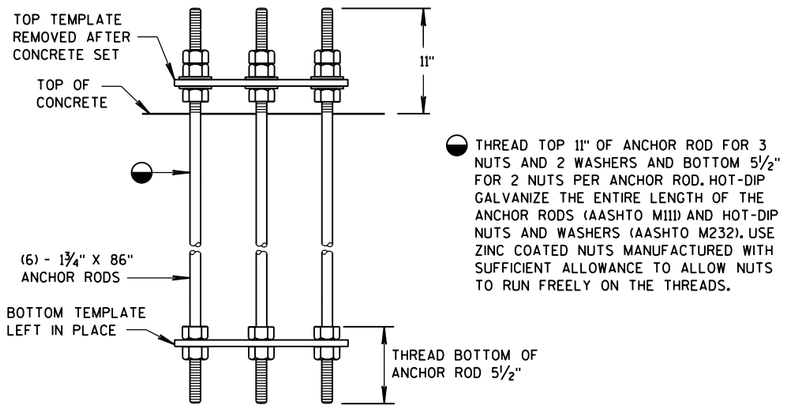
CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 9 C 12-6a

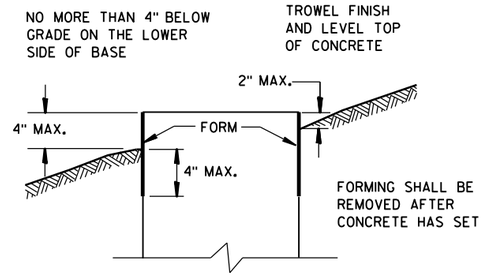


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

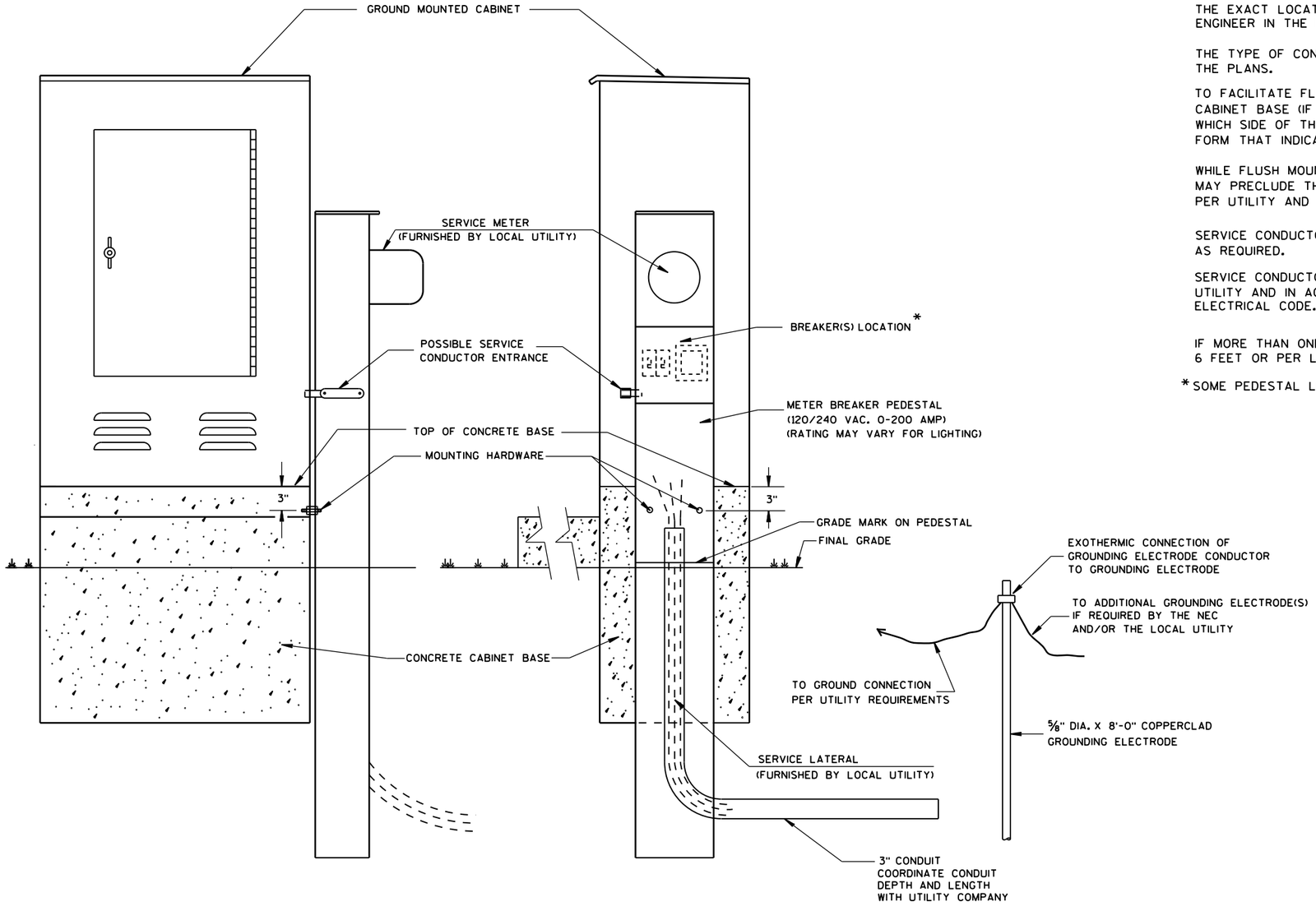
CONCRETE BASE TYPE 13	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED Feb. 2015 DATE FHWA	/S/ Ahmet Demirbilek STATE ELECTRICAL

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S.D.D. 9 C 12-6b

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S.D.D. 9 C 12-6b



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.

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S.D.D. 9 D 1-5

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S.D.D. 9 D 1-5

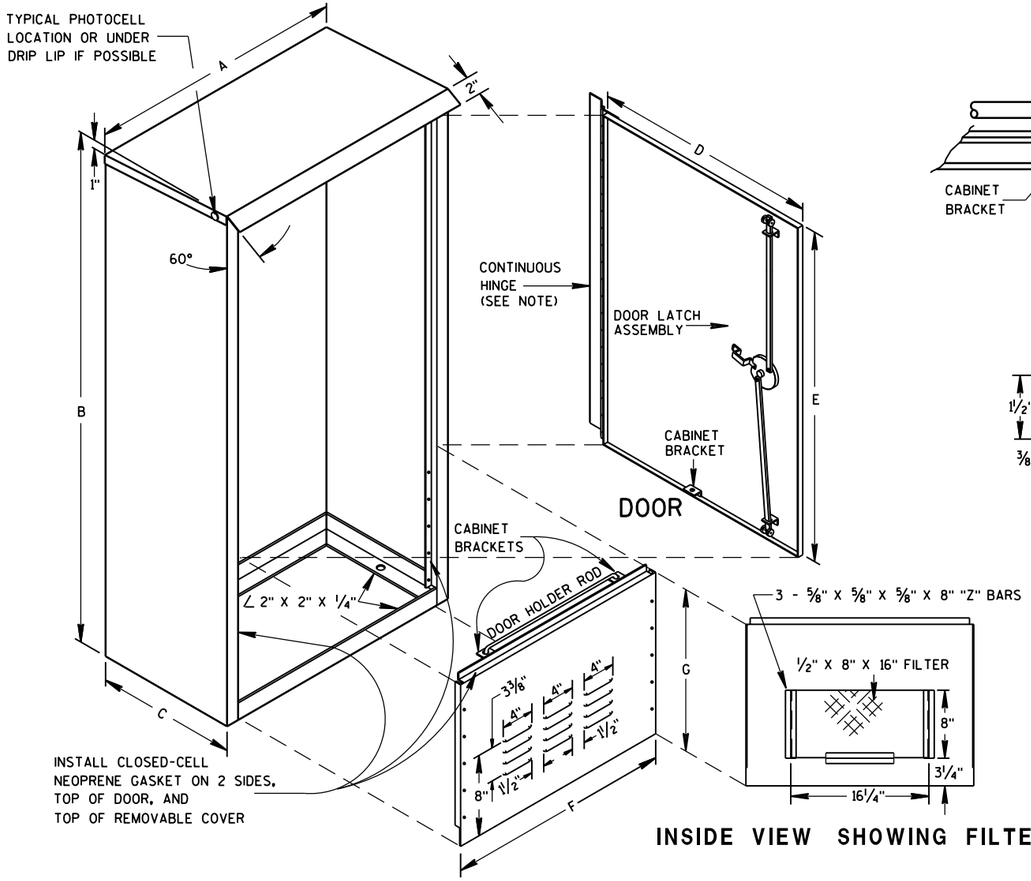
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

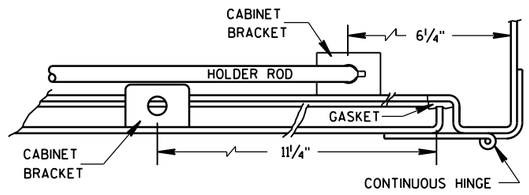
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

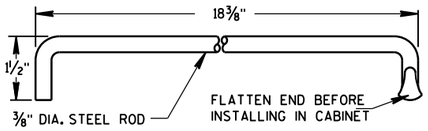


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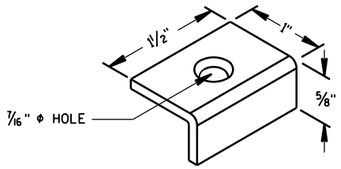
INSIDE VIEW SHOWING FILTER



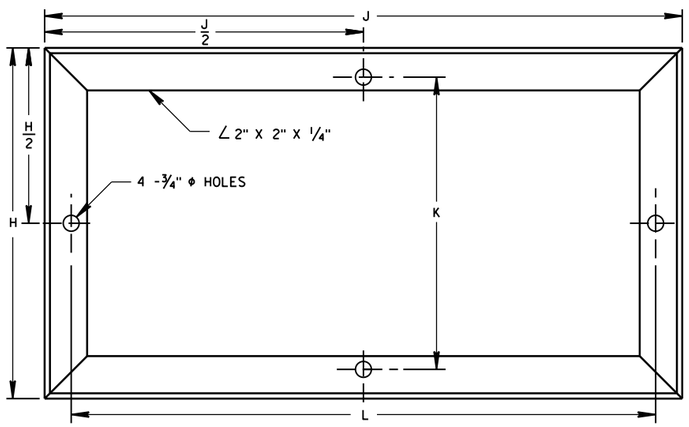
HINGE & DOOR HOLDER



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

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.

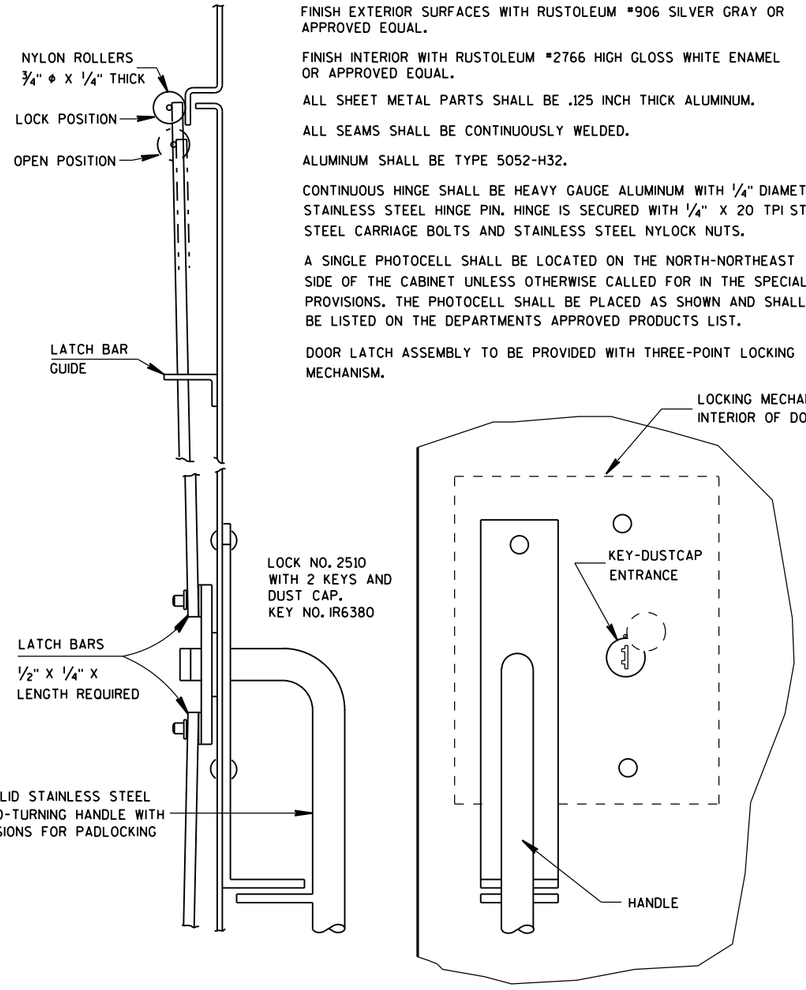
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

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 LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

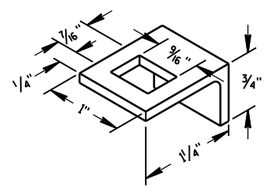
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

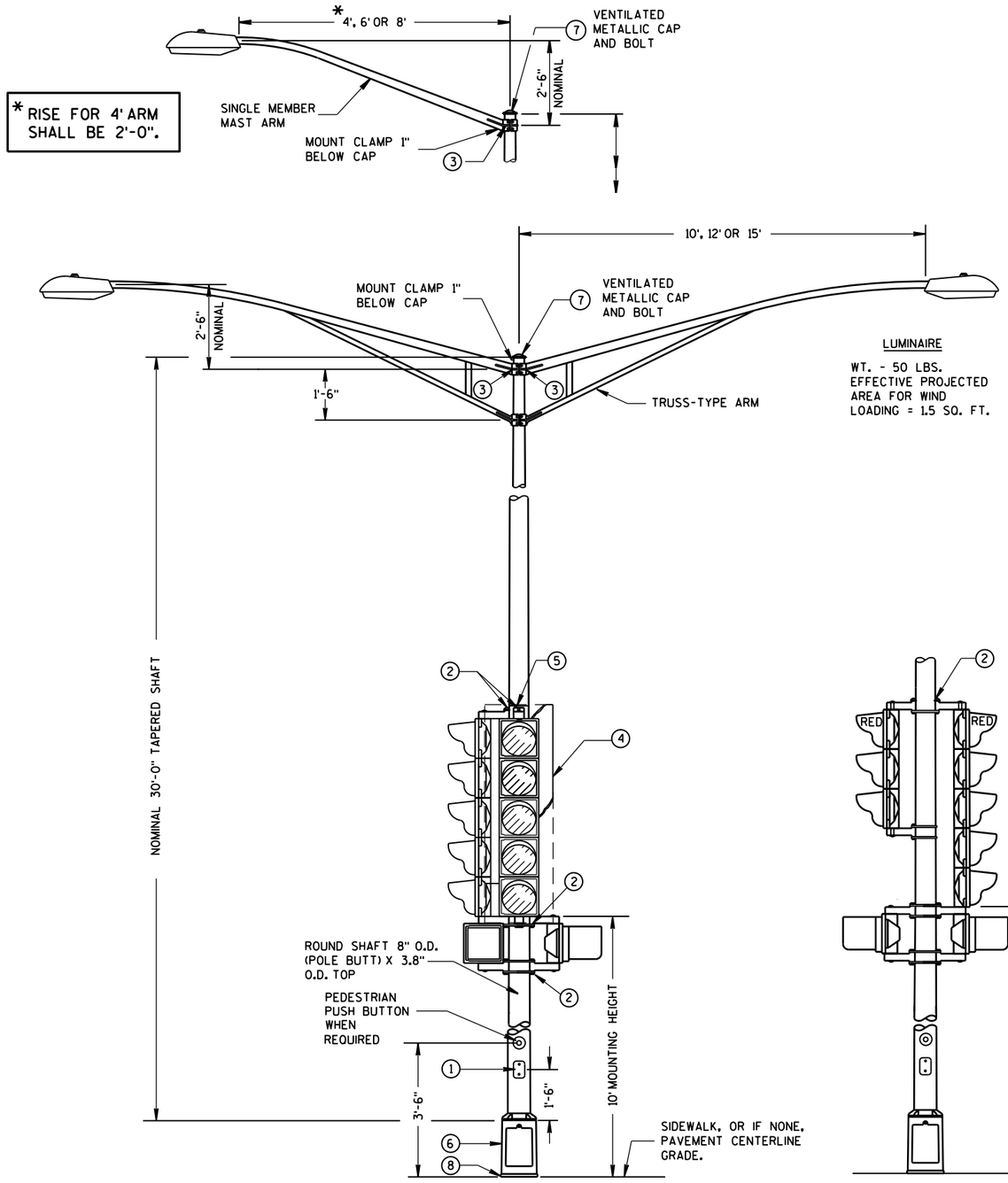
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

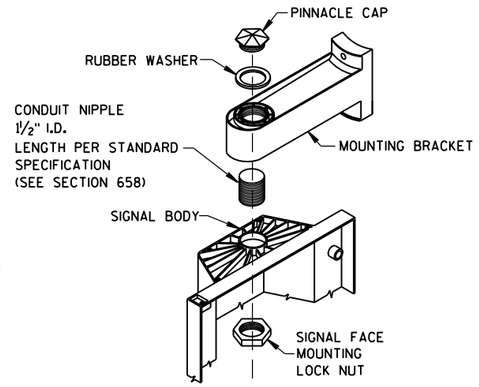
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TYPE 4 POLE MOUNTING CONFIGURATION



SIGNAL FACE MOUNTING DETAIL
(BANDED)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 4 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL WITH A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

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 MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, CONNECTIONS 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) SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658).

(3) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

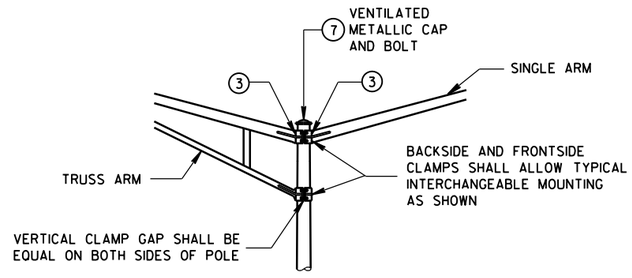
(4) SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.

(5) POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.

(6) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(7) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(8) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.



INTERCHANGEABLE MOUNTING DETAIL

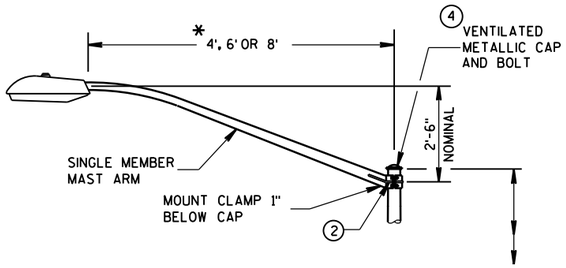
POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4

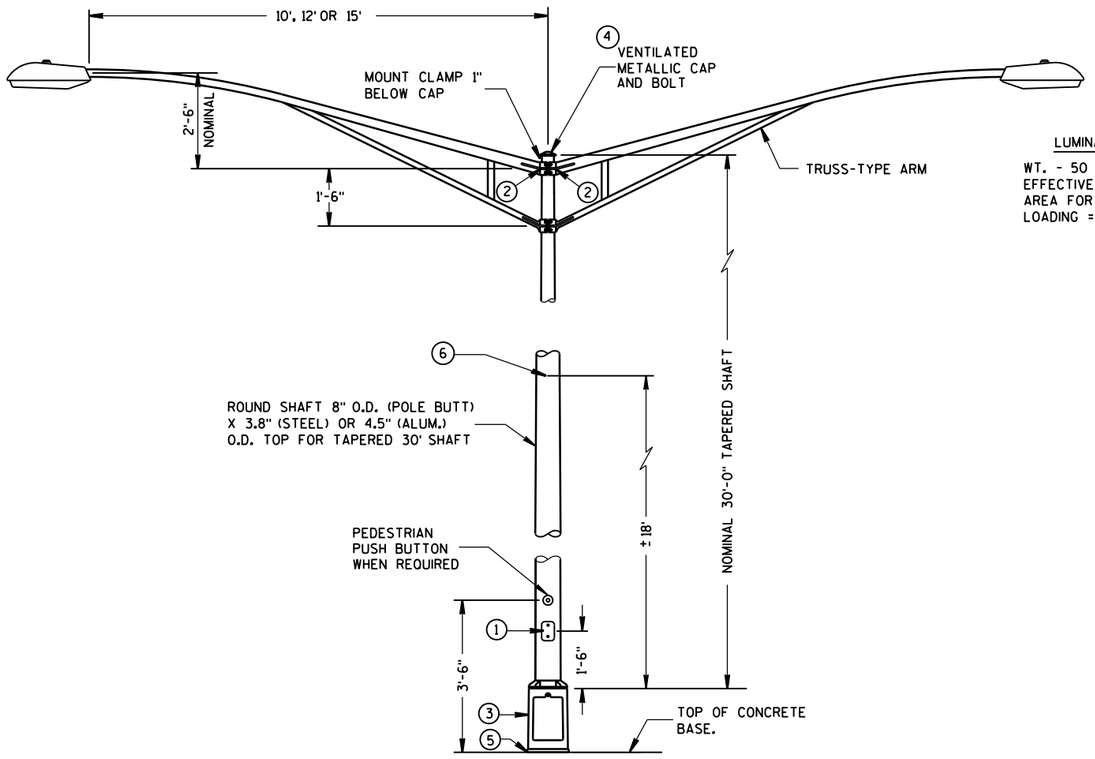
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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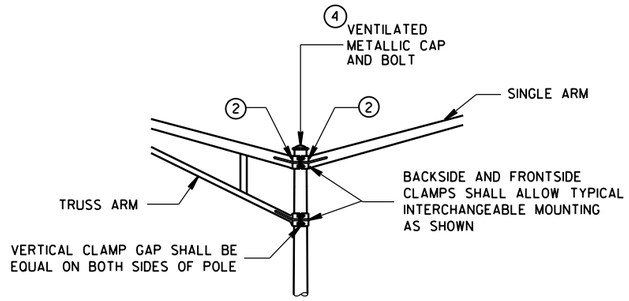
S.D.D. 9 E 1-14c

*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.

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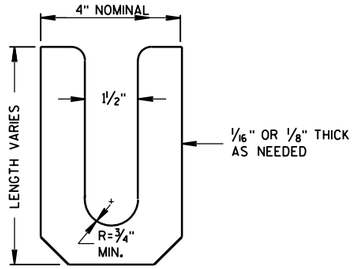
S.D.D. 9 E 1-14d

POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

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DEPARTMENT OF TRANSPOI

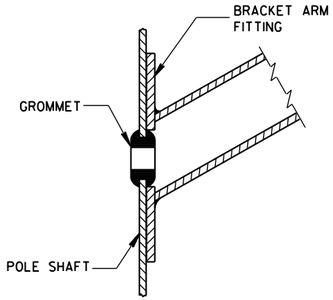
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S.D.D. 9 E 1-14d

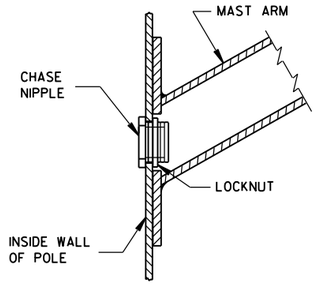


LEVELING SHIM (13)

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.

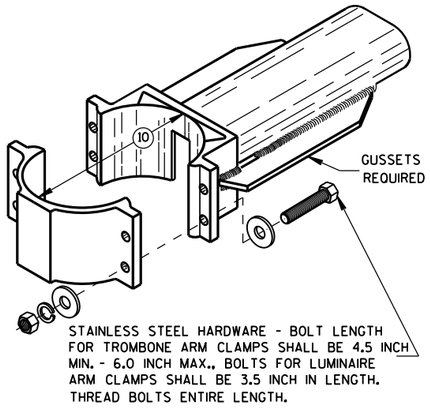
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

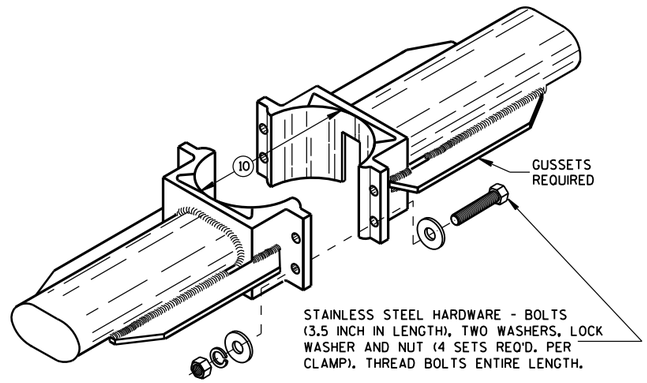
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) 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.

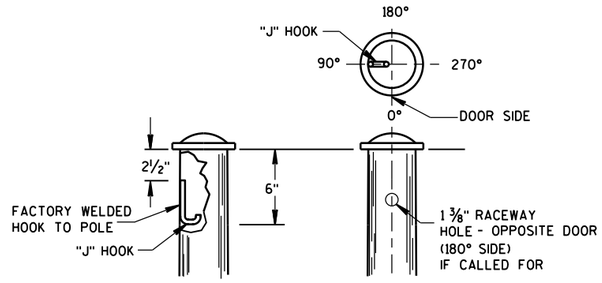
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



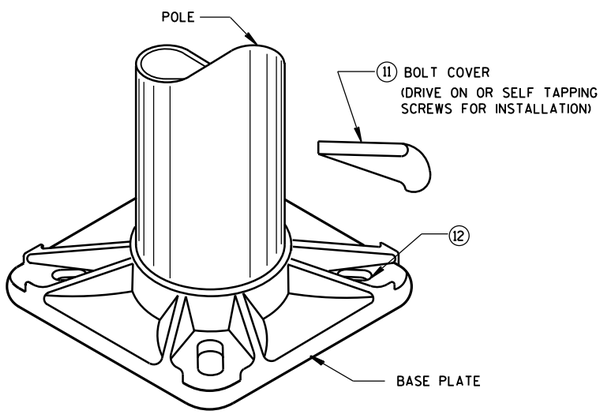
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



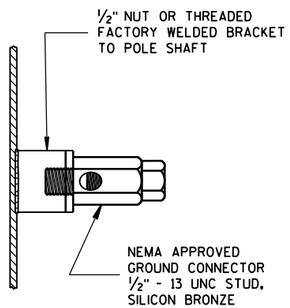
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

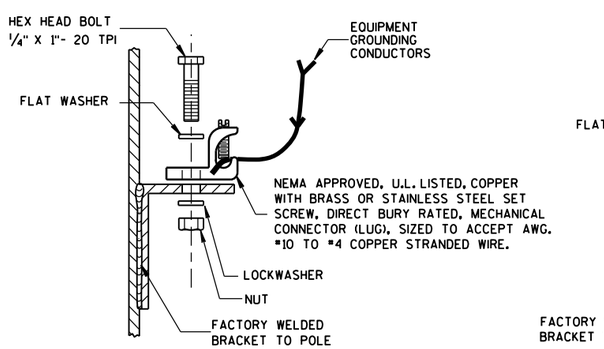


TYPICAL "J" HOOK LOCATION



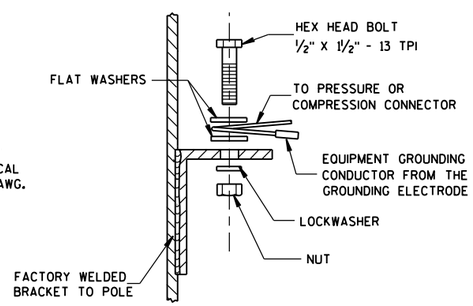
BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

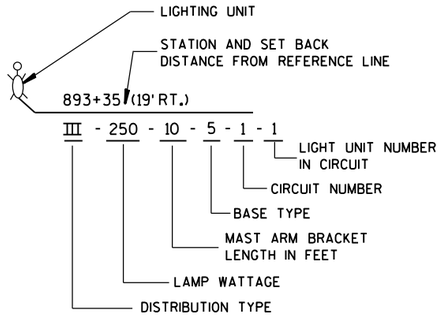
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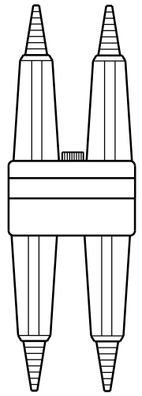
S.D.D. 9 E 1-14g

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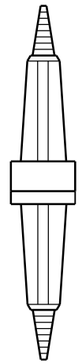
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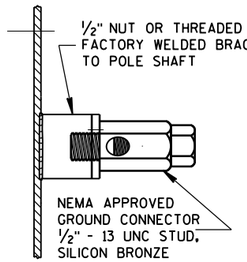
LIGHTING UNIT CODE
(TYPICAL)

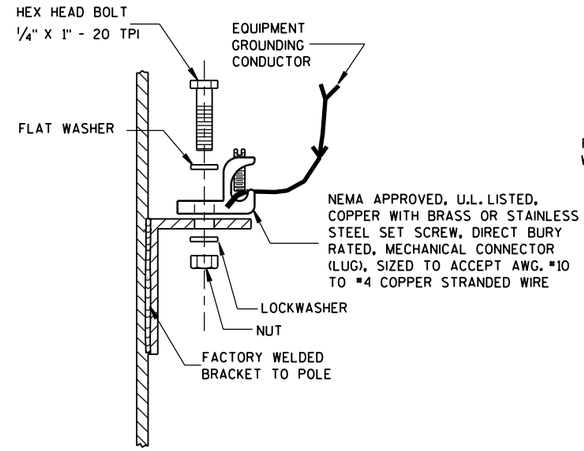


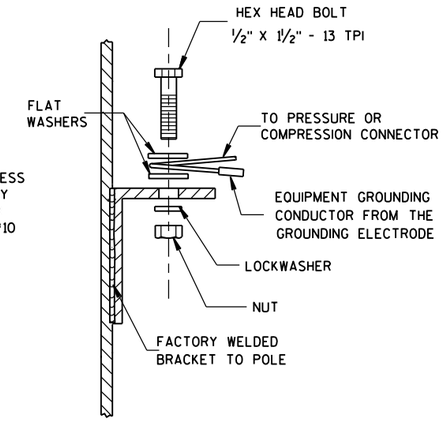
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



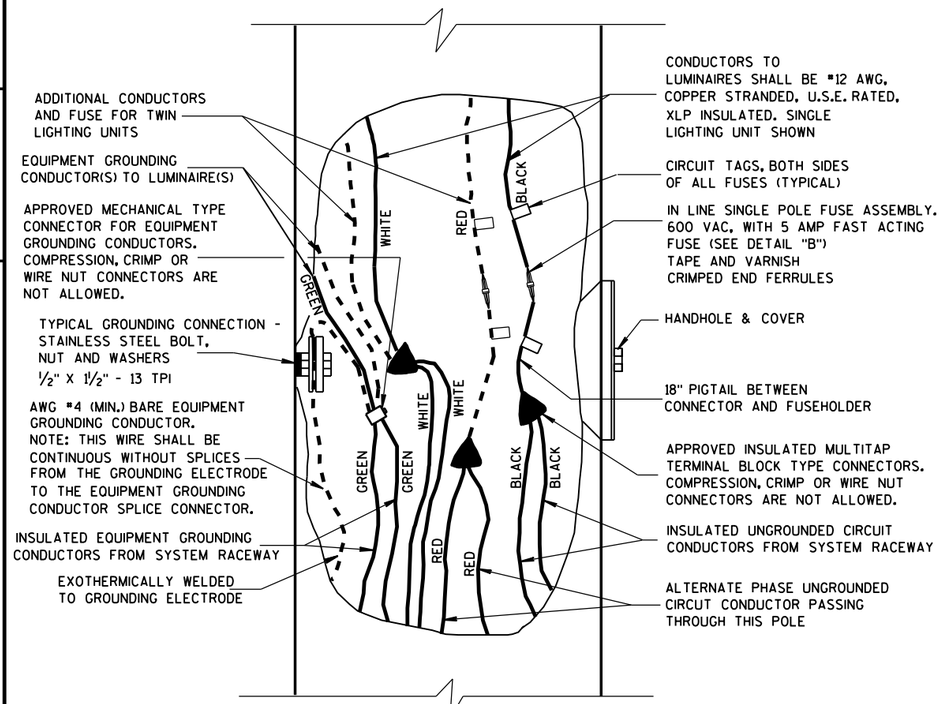
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



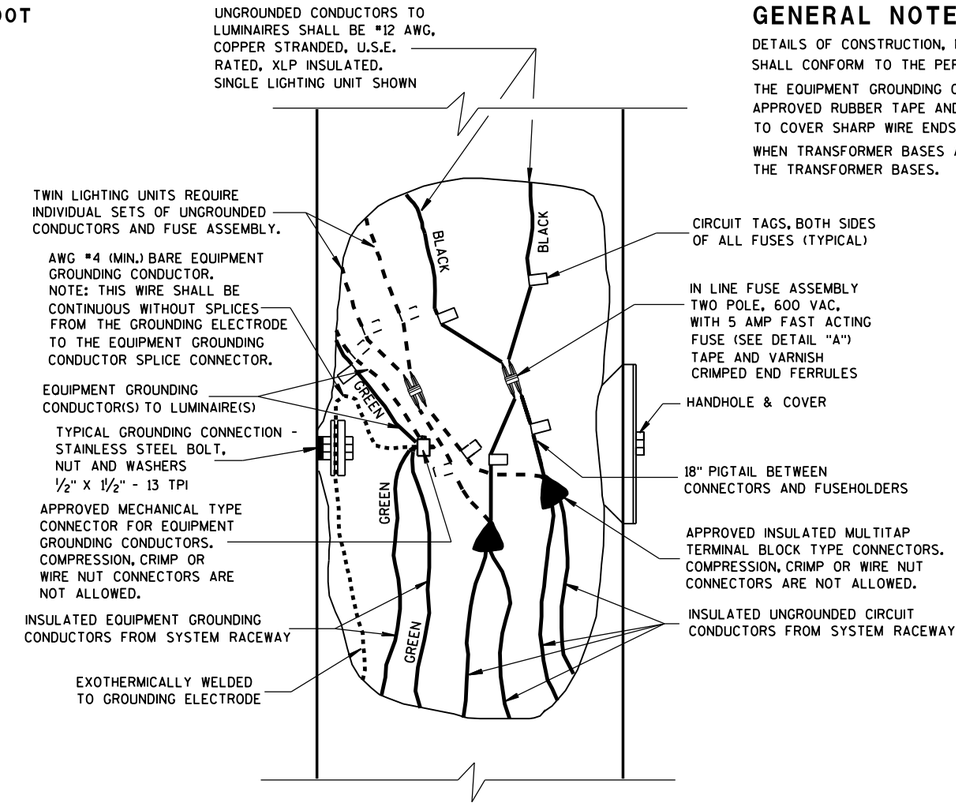




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

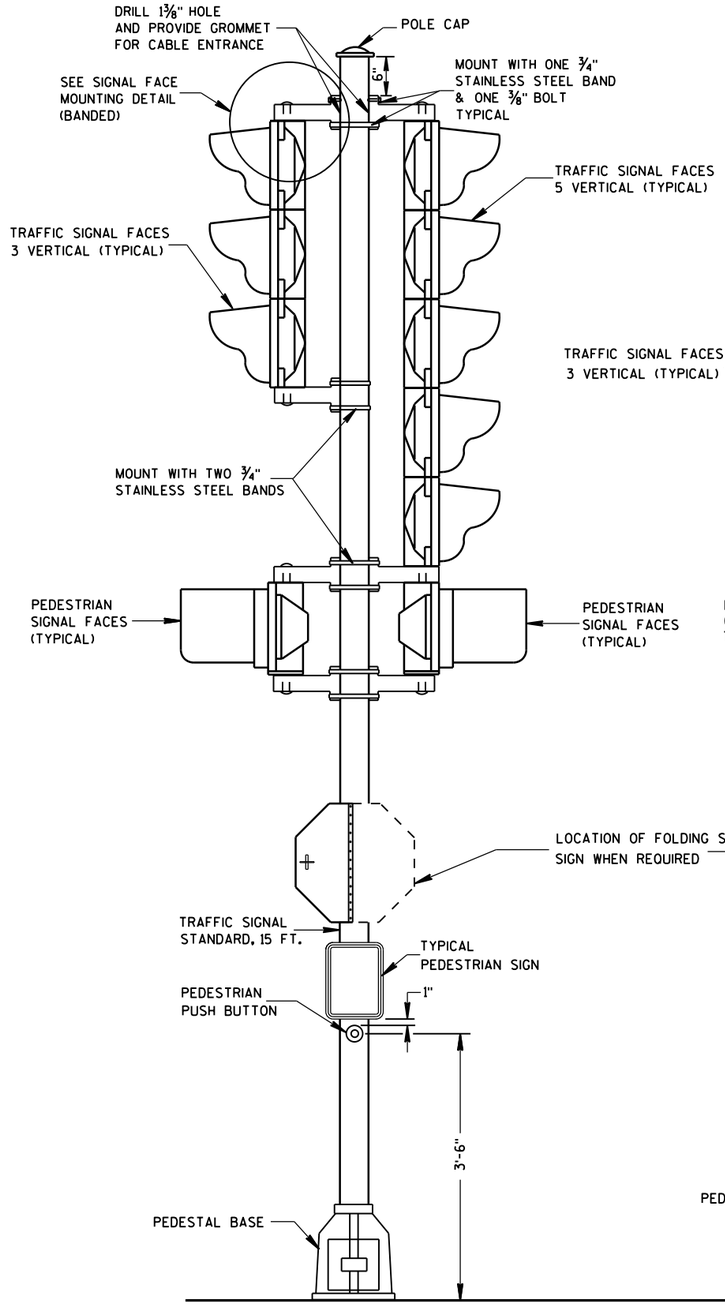
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

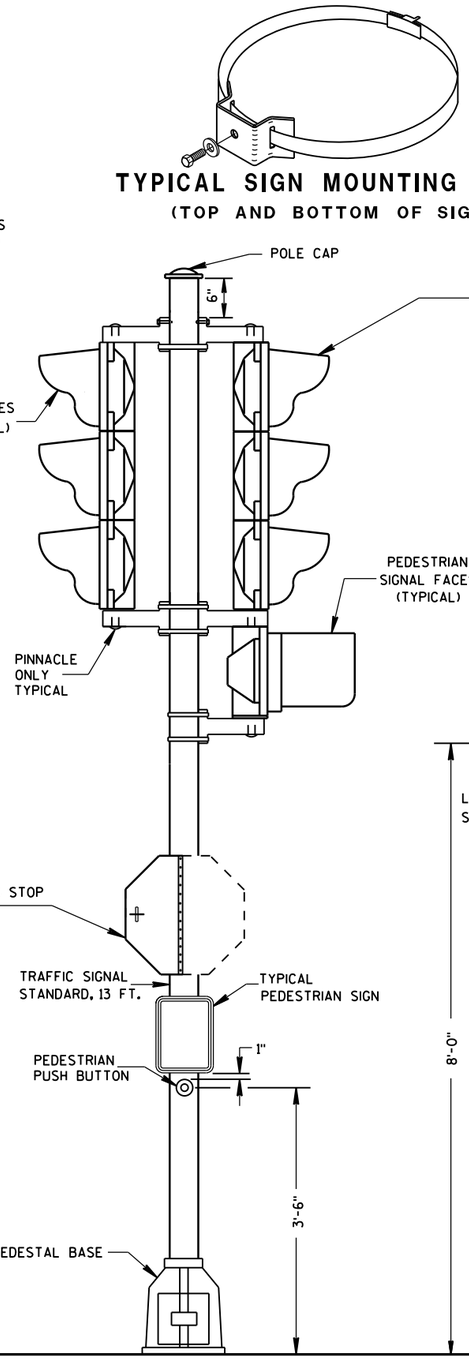
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 E 3-5

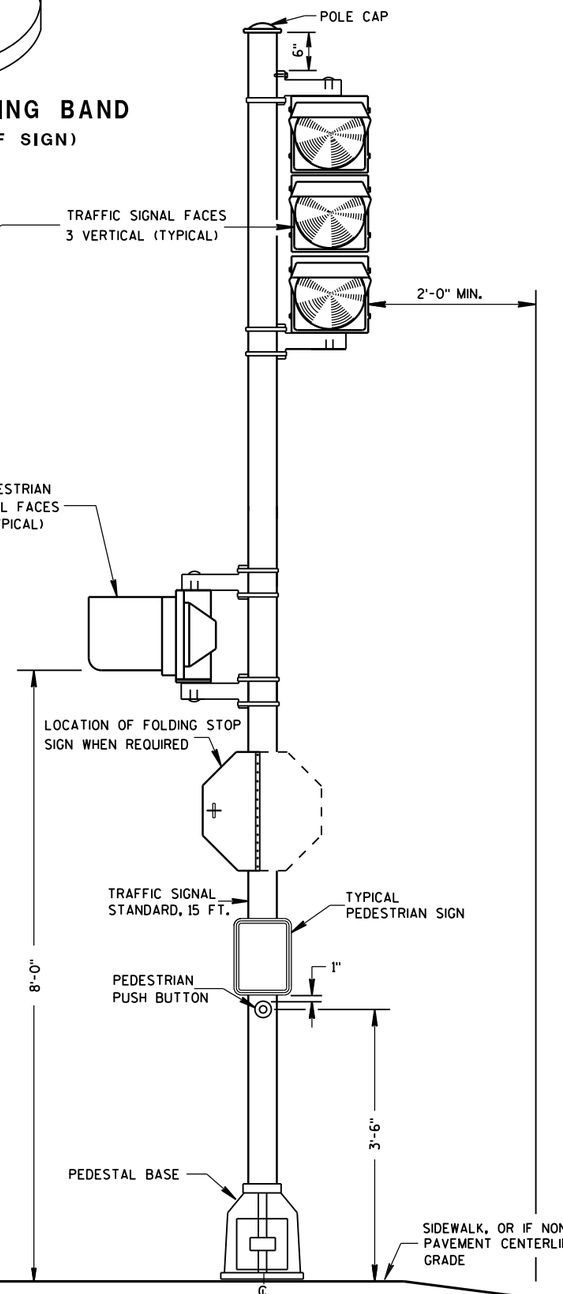


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



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.

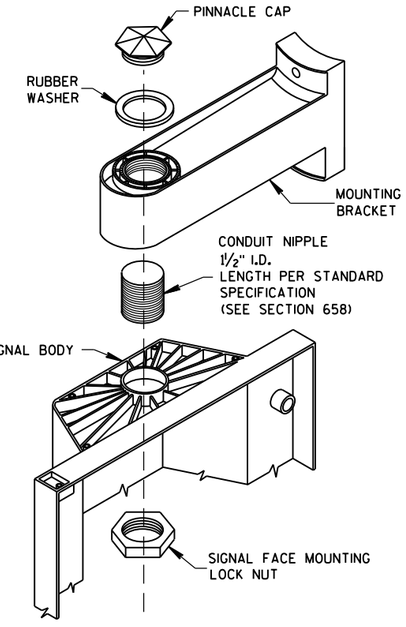
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

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)

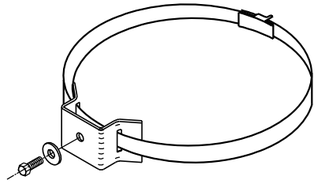
TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.

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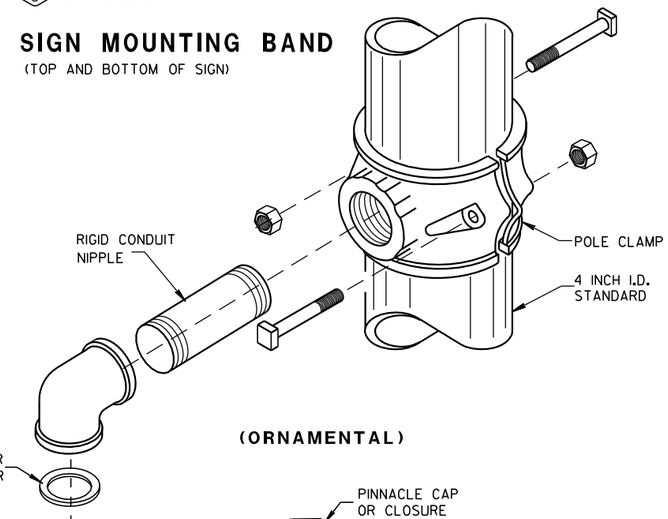
APPROVED
2/28/2013 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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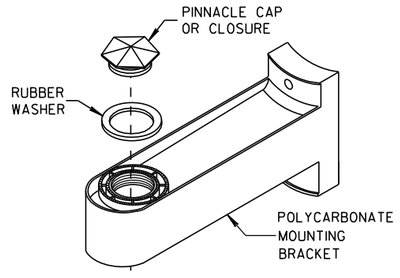
S.D.D. 9 E 6-5



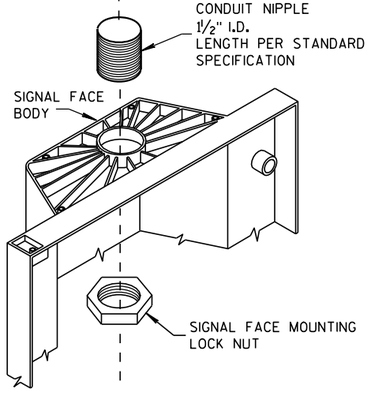
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



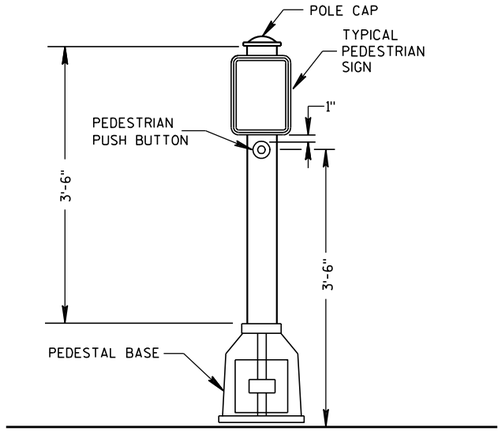
(ORNAMENTAL)



(BANDED)



SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING

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.

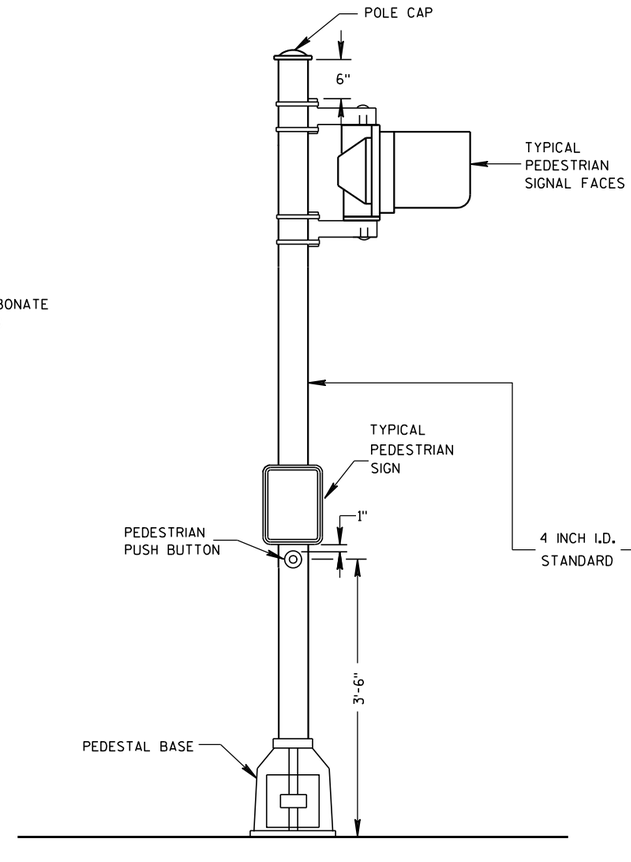
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

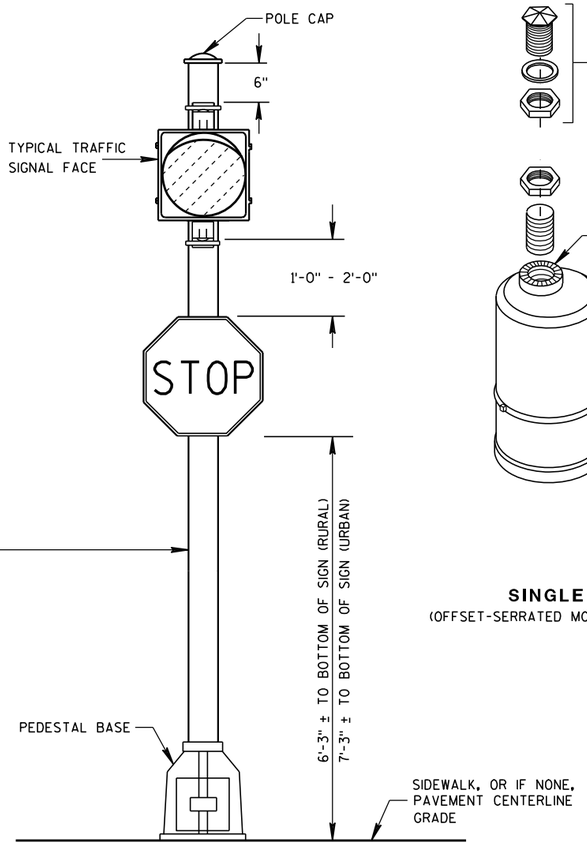
MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

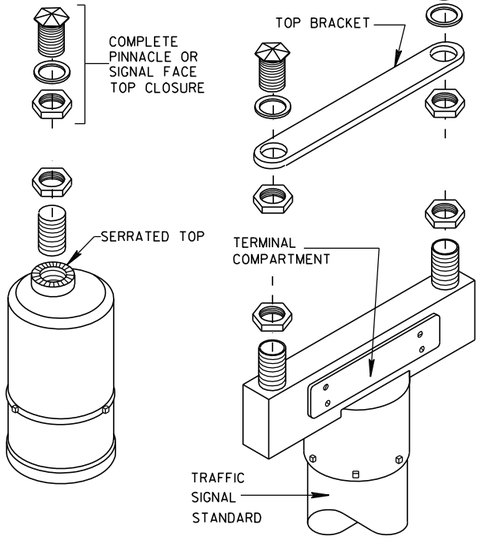
FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED



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
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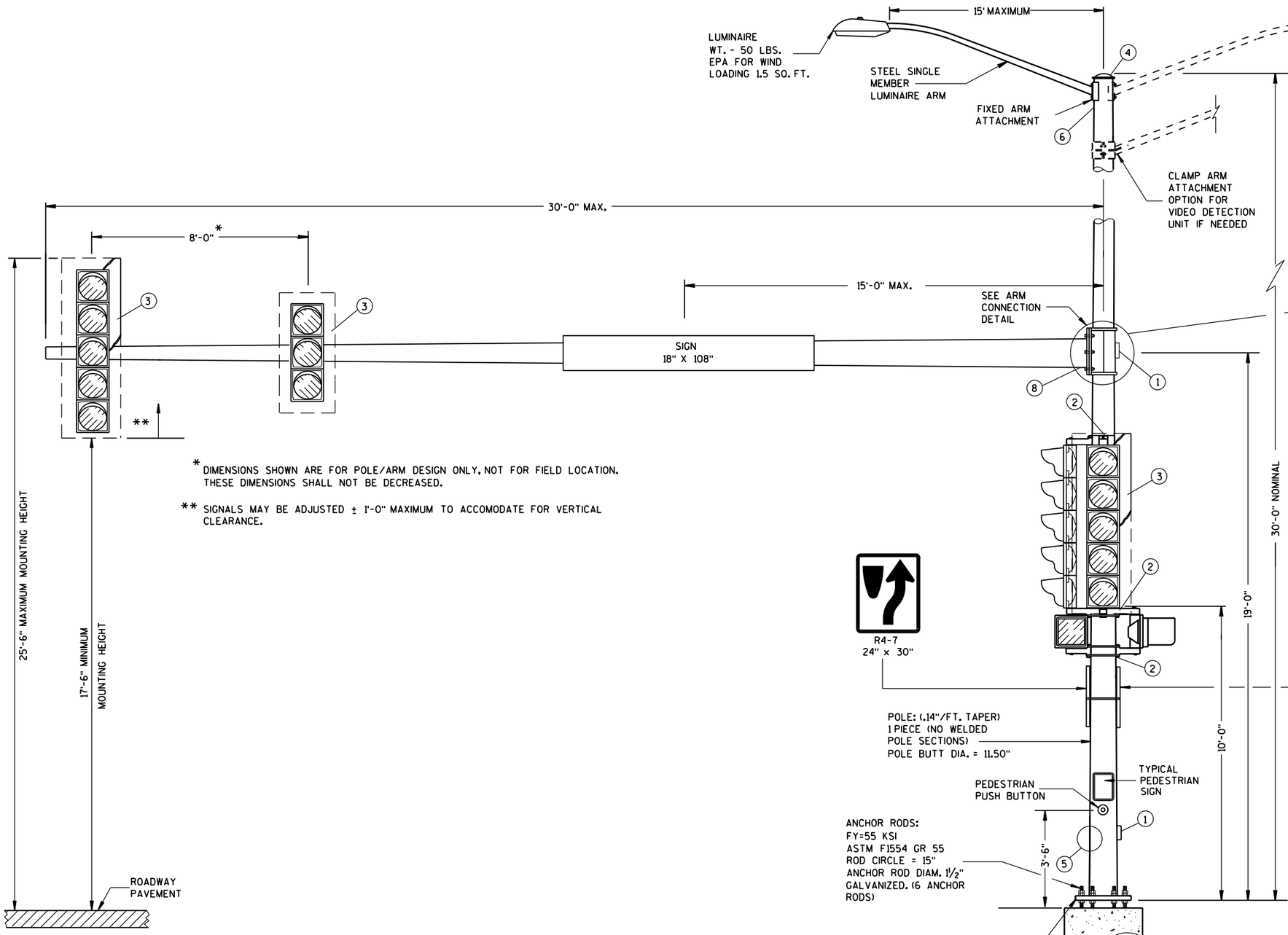
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S.D.D. 9 E 7-5

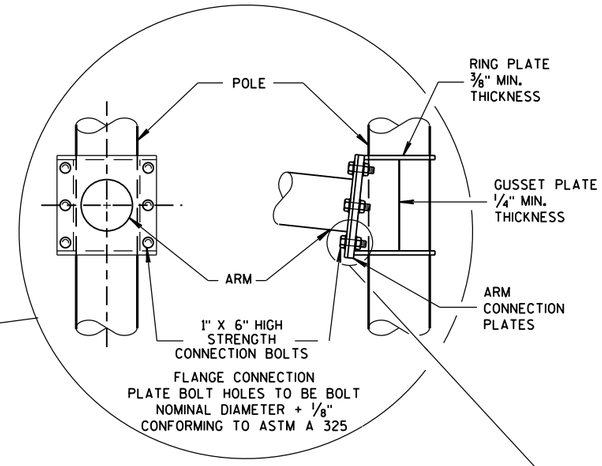
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S.D.D. 9 E 7-5

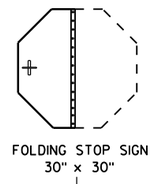


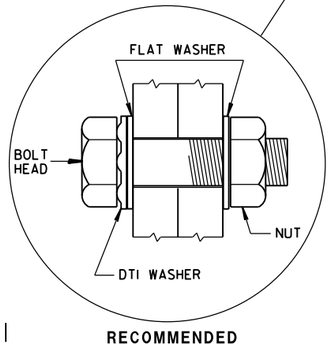
* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

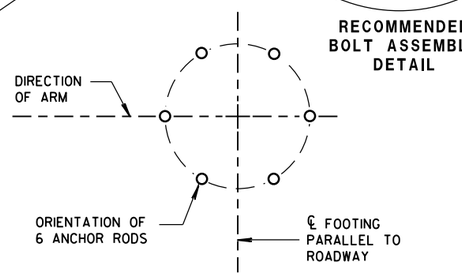


6 BOLT ARM CONNECTION DETAIL





RECOMMENDED BOLT ASSEMBLY DETAIL



ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 10 POLE
15'- 30' MONOTUBE ARM

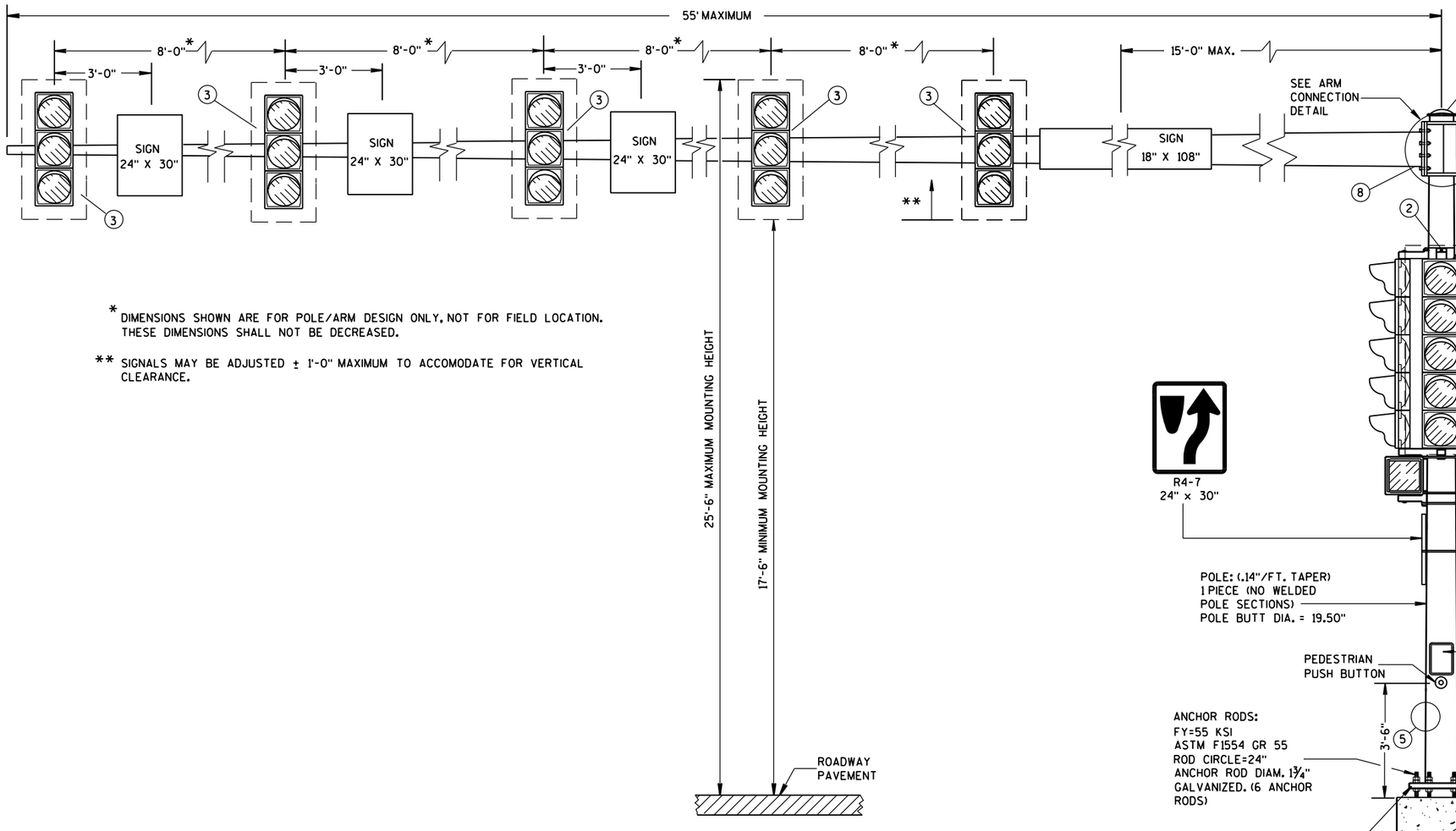
TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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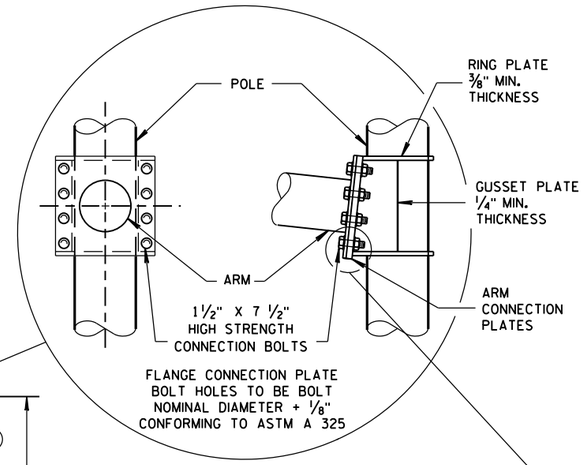
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S.D.D. 9 E 8-7b

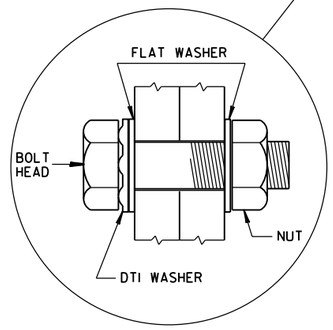


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

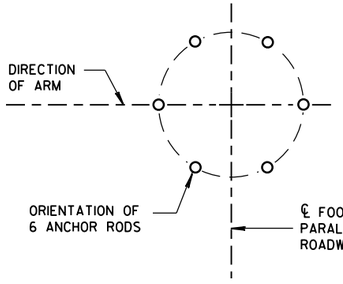
** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.



8 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL



ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 12 POLE 35'- 55' MONOTUBE ARM

TYPE 12 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
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S.D.D. 9 E 8-7c

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO 2013 6TH EDITION AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

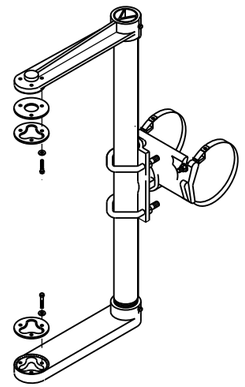
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

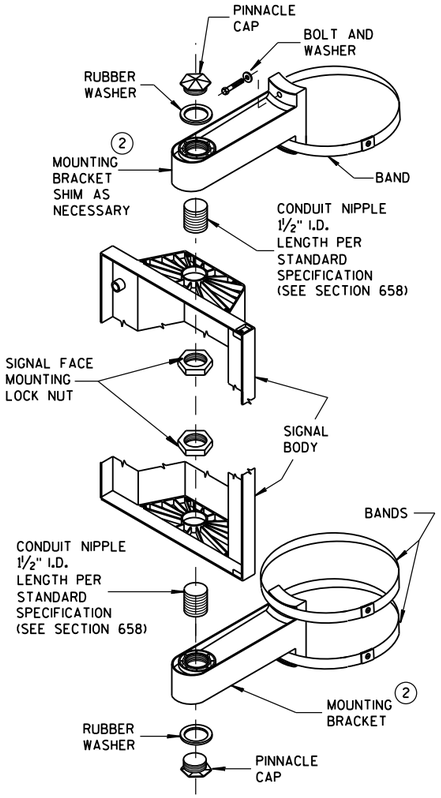
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

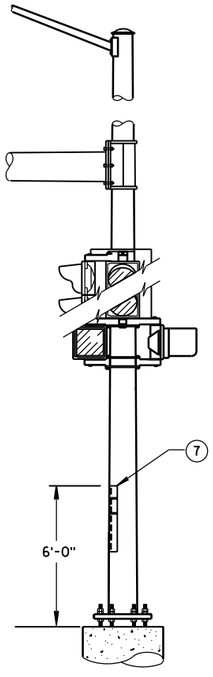


SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

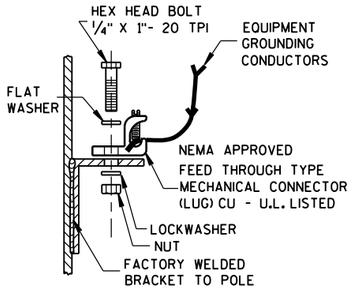
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE VERTICAL MOUNTING DETAIL

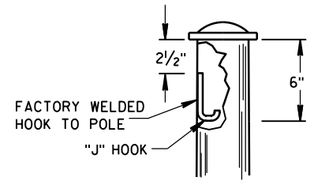


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

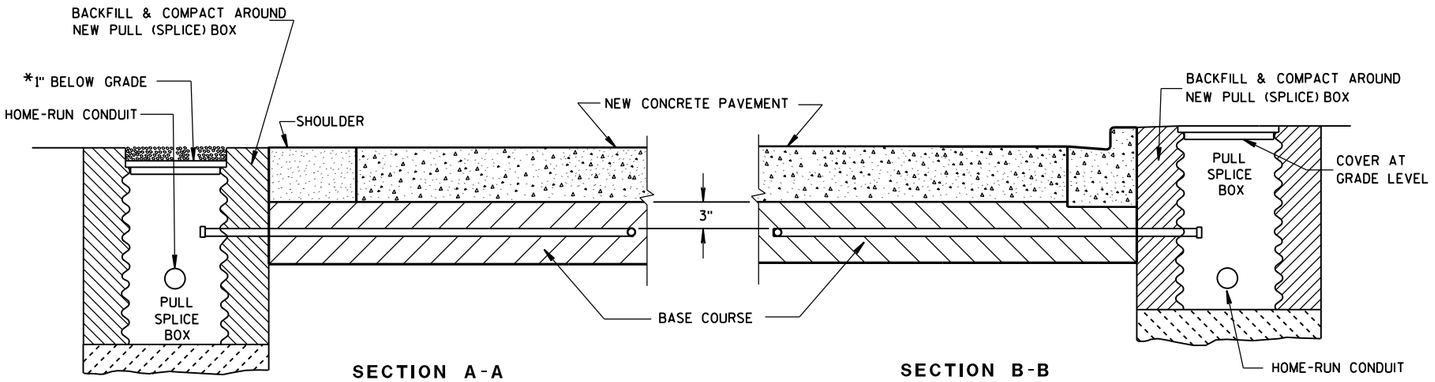
GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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6

S.D.D. 9 E 8-7e



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

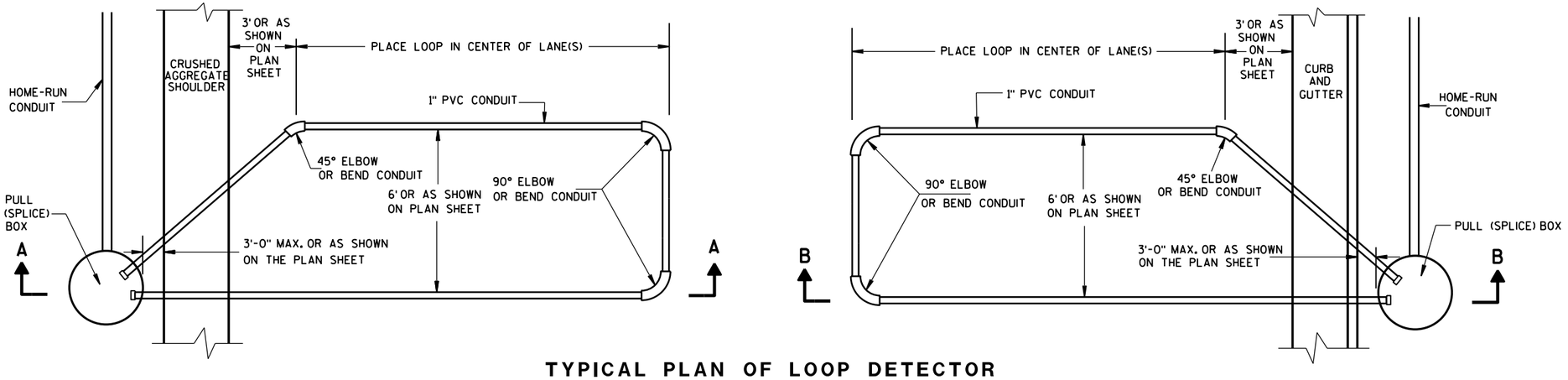
SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.

6



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

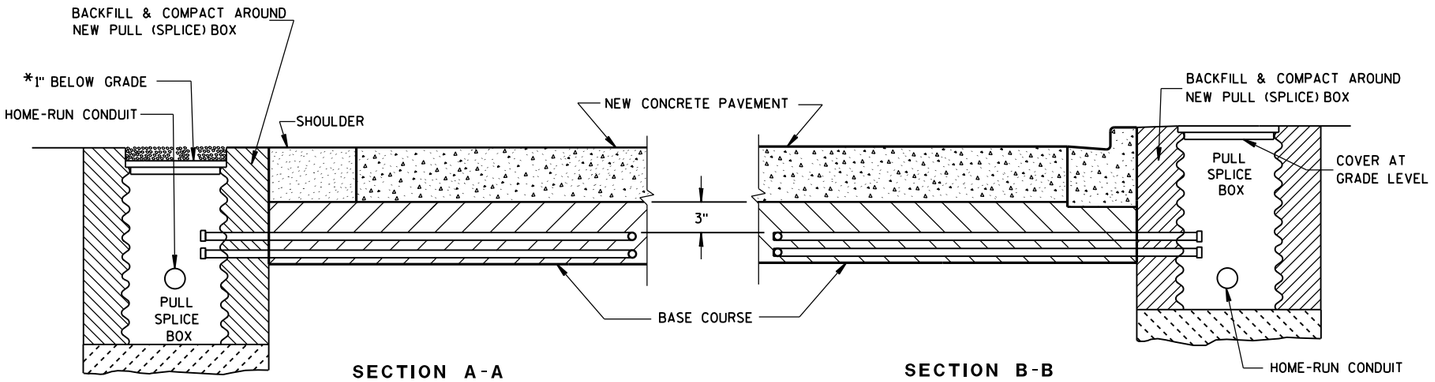
LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
FHWA

S.D.D. 9 F 15-4a

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S.D.D. 9 F 15-4a



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

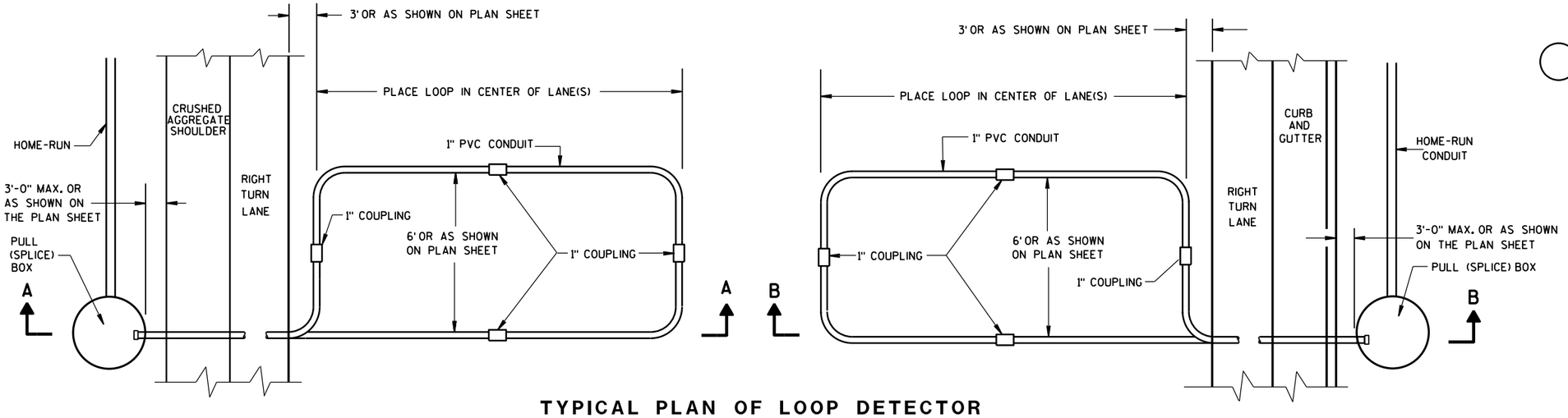
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

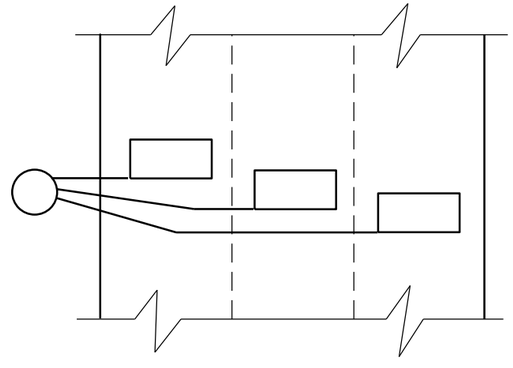
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept. 2014 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL
FHWA	

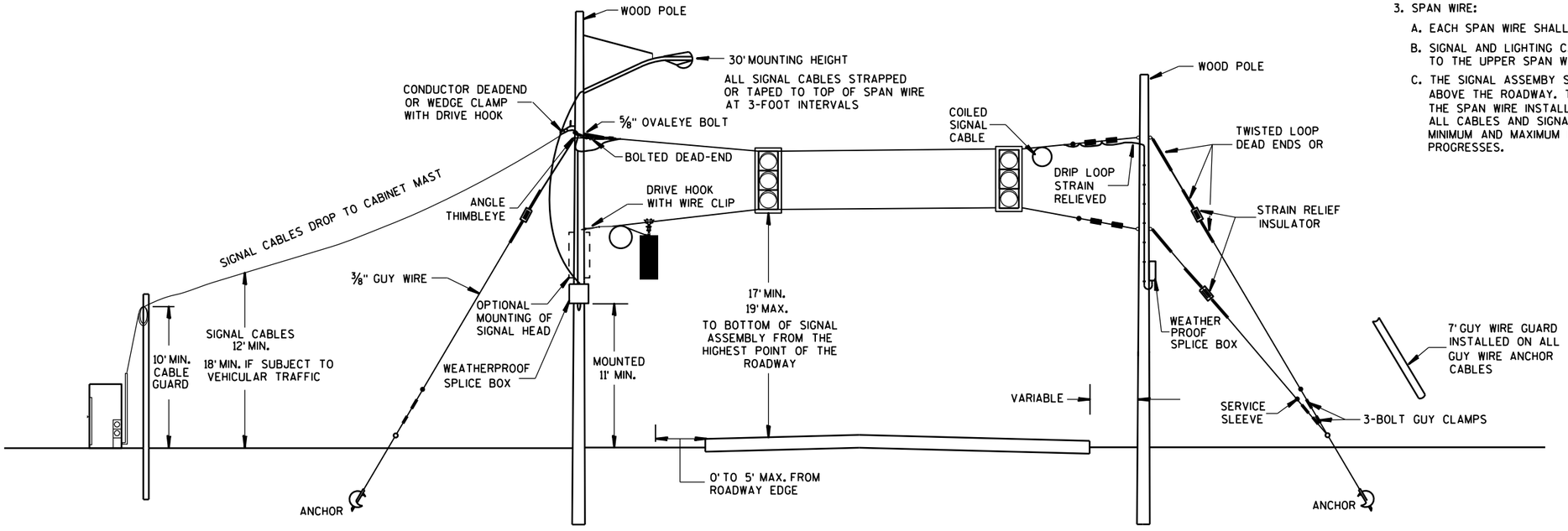
GENERAL NOTES

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.



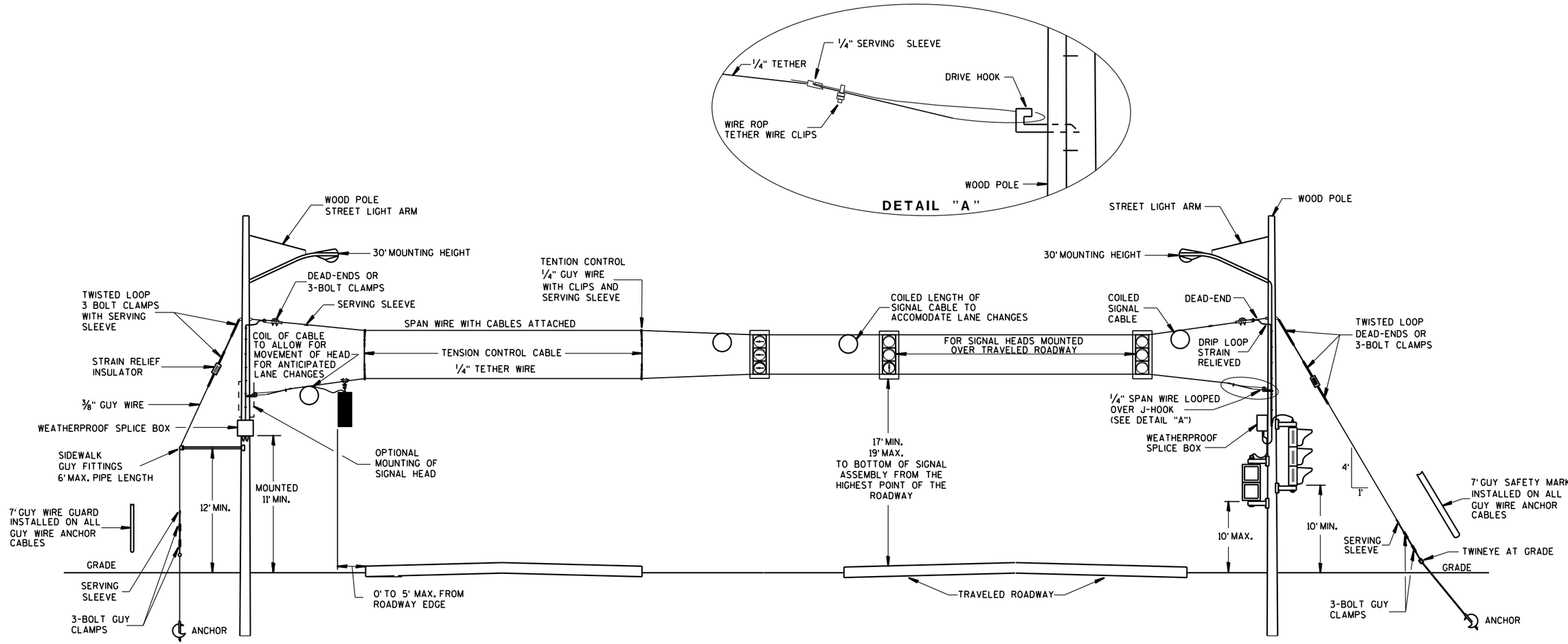
SPAN WIRE
TEMPORARY SIGNALS

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
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 442
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GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
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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'

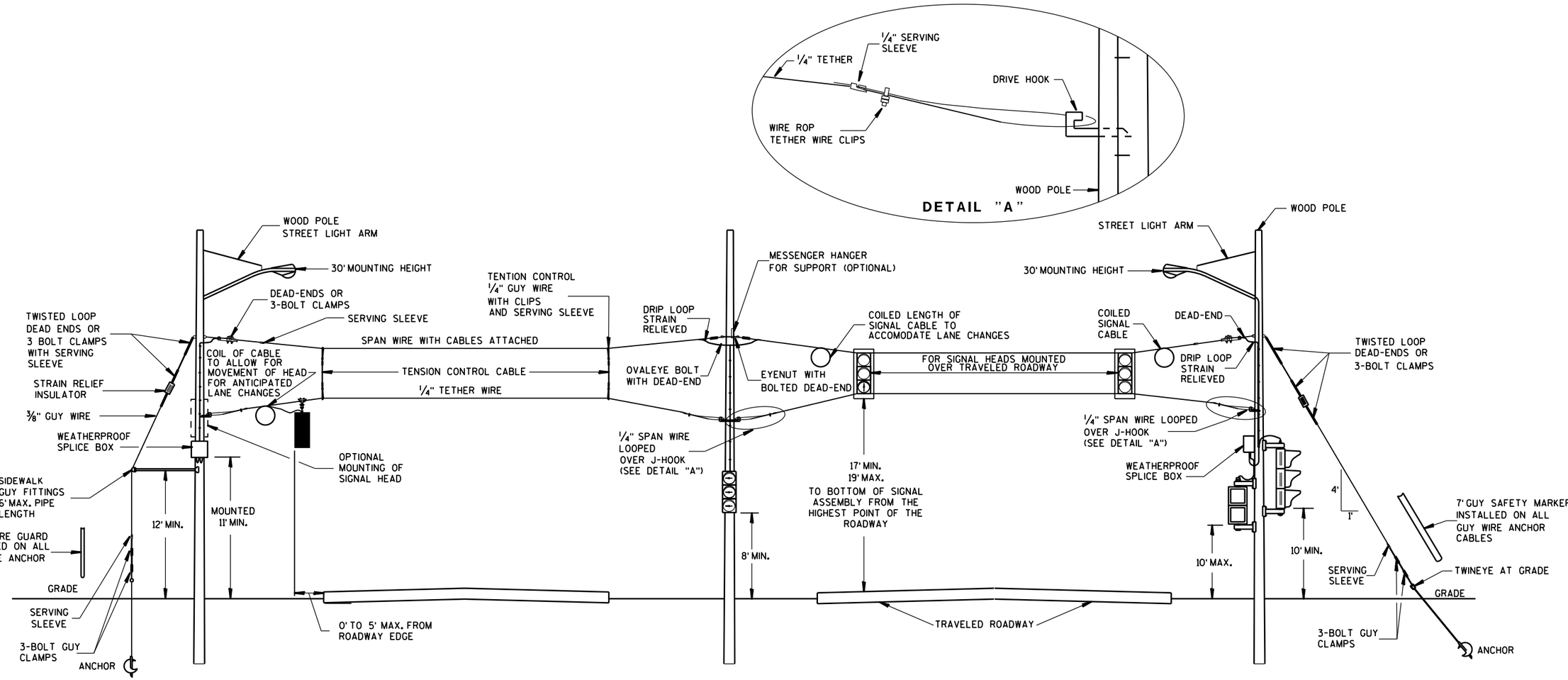
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June, 2015 — DATE
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S.D.D. 9 G 1-4b



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.

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   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

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MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

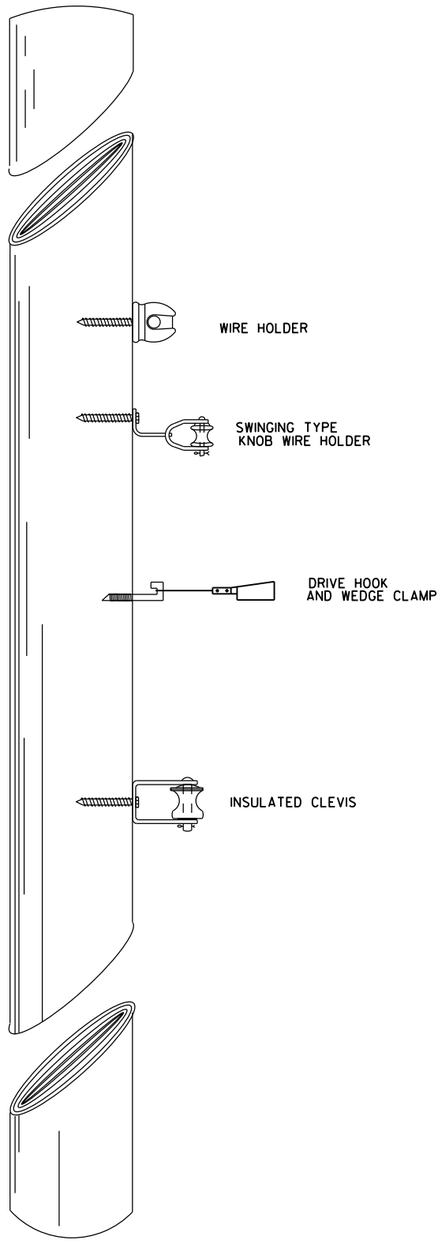
SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

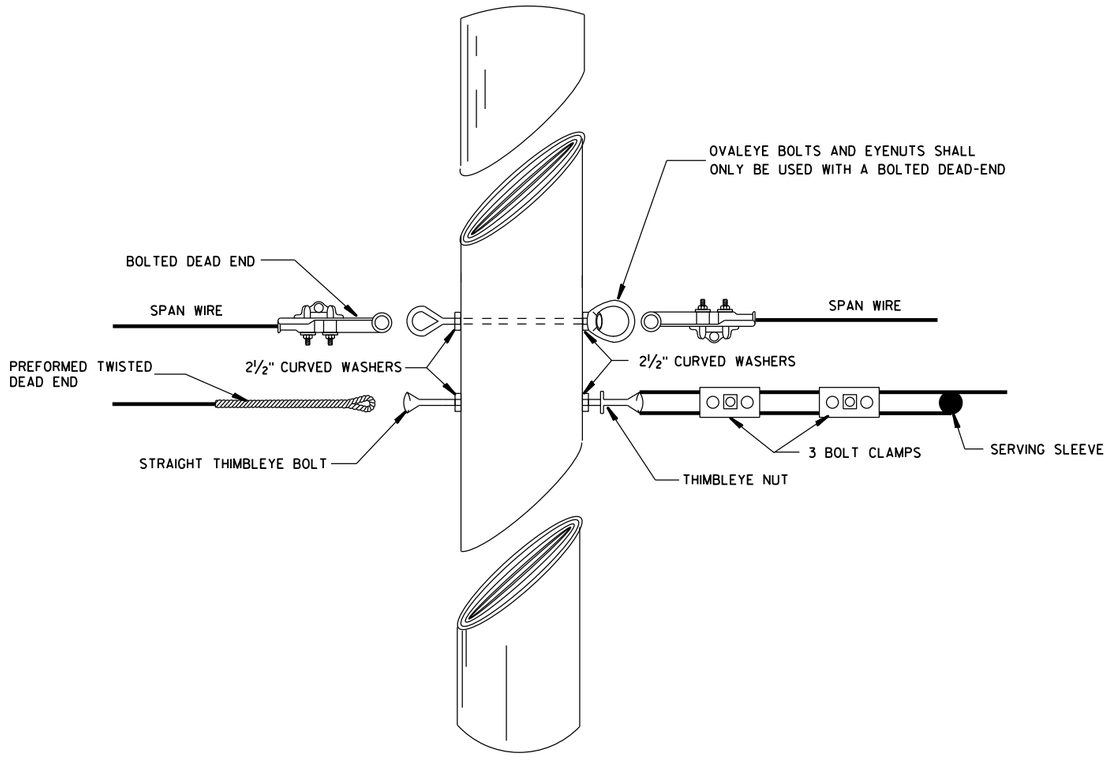
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FHWA

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S.D.D. 9 G 1-4c



TYPICAL CABLE HANGERS



TYPICAL DEAD-ENDING

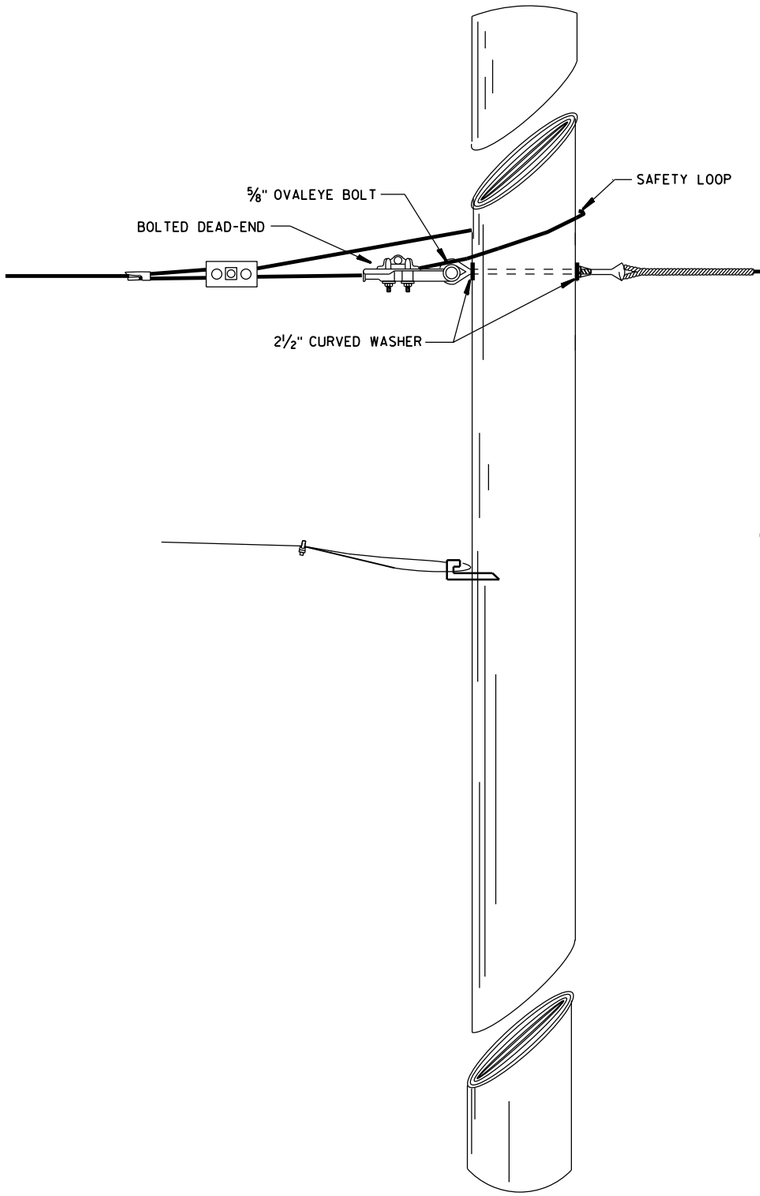
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

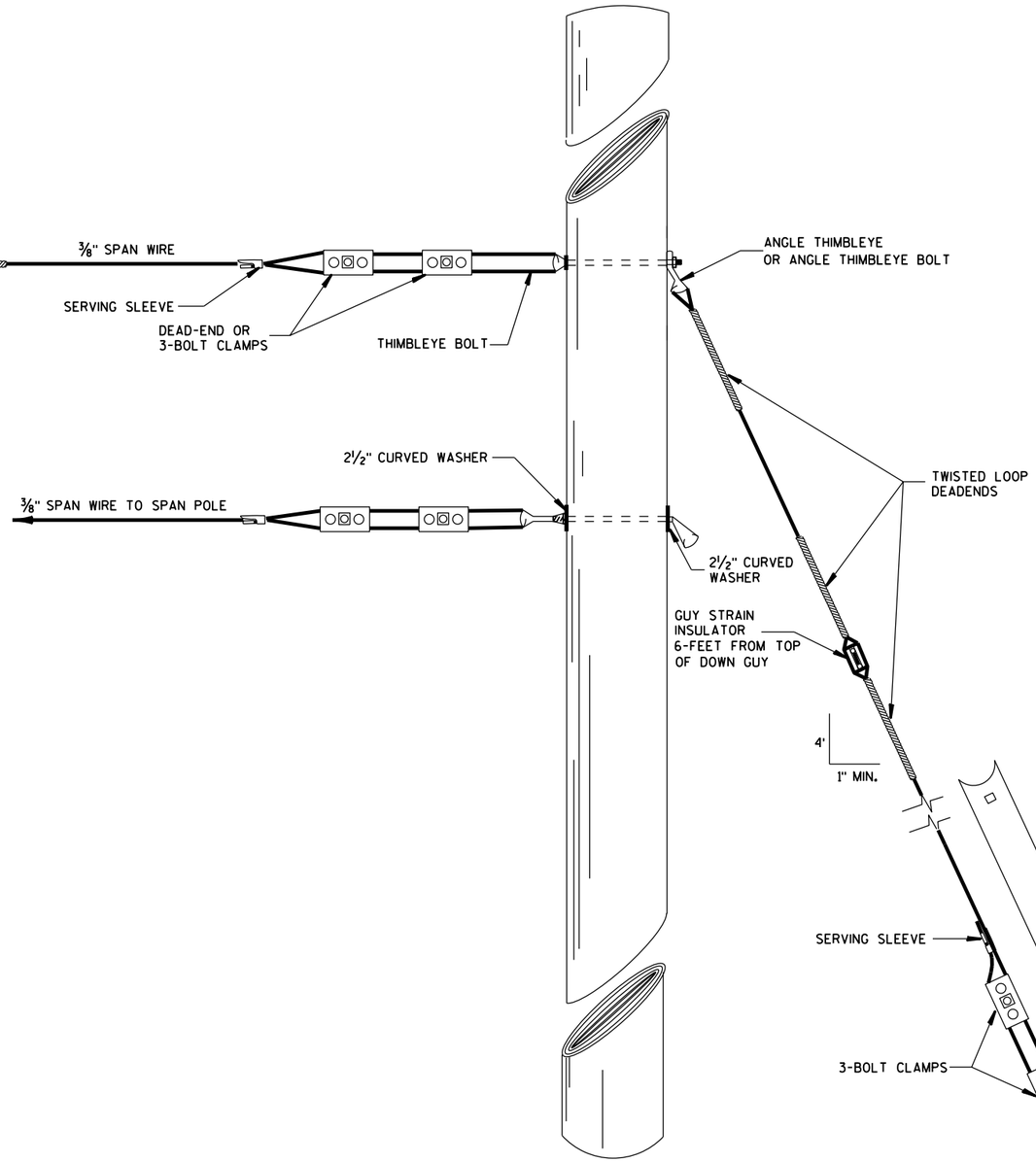
APPROVED
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 445
FHWA

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



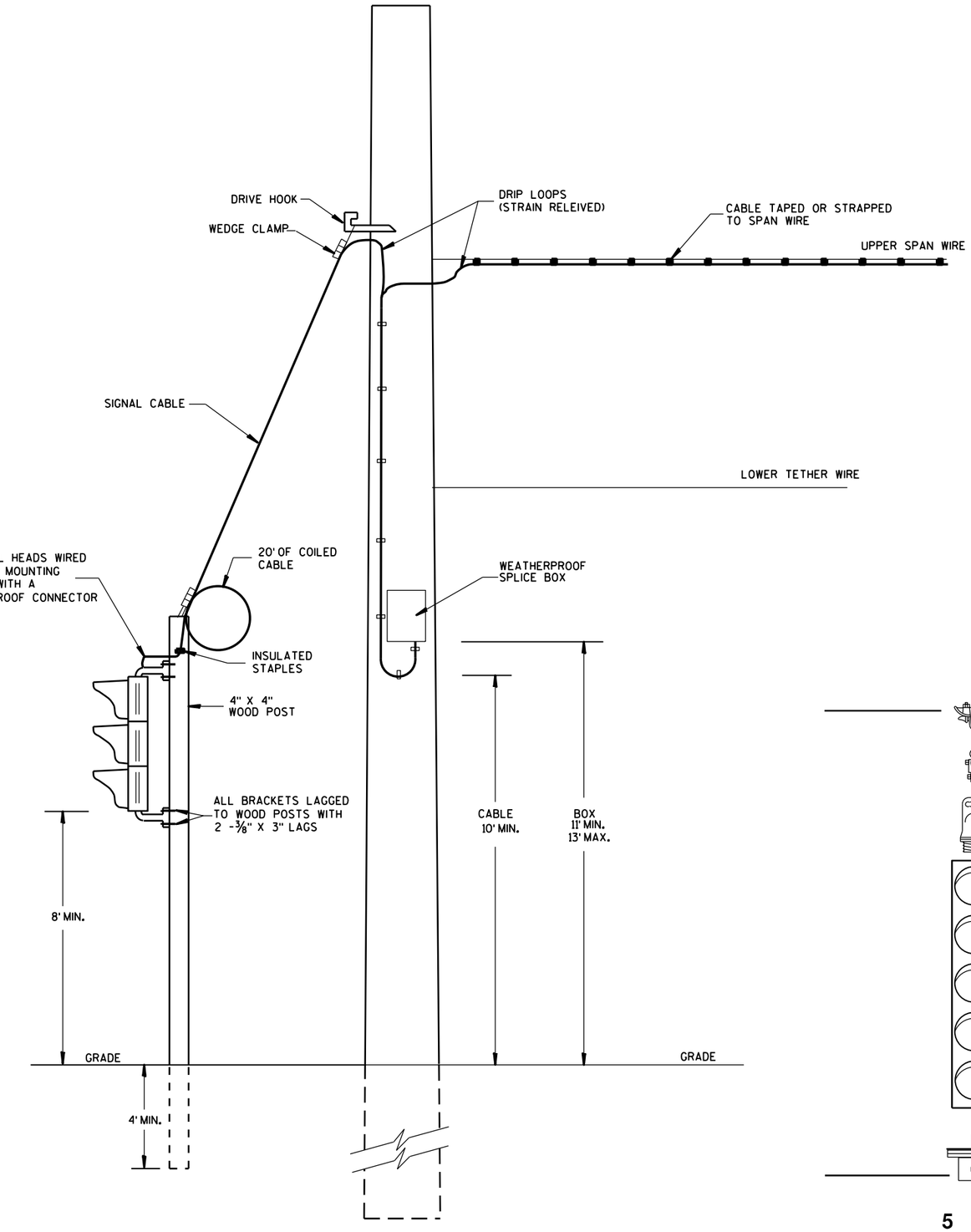
GUY POLE

TYPICAL DEAD-ENDINGS OR GUYING

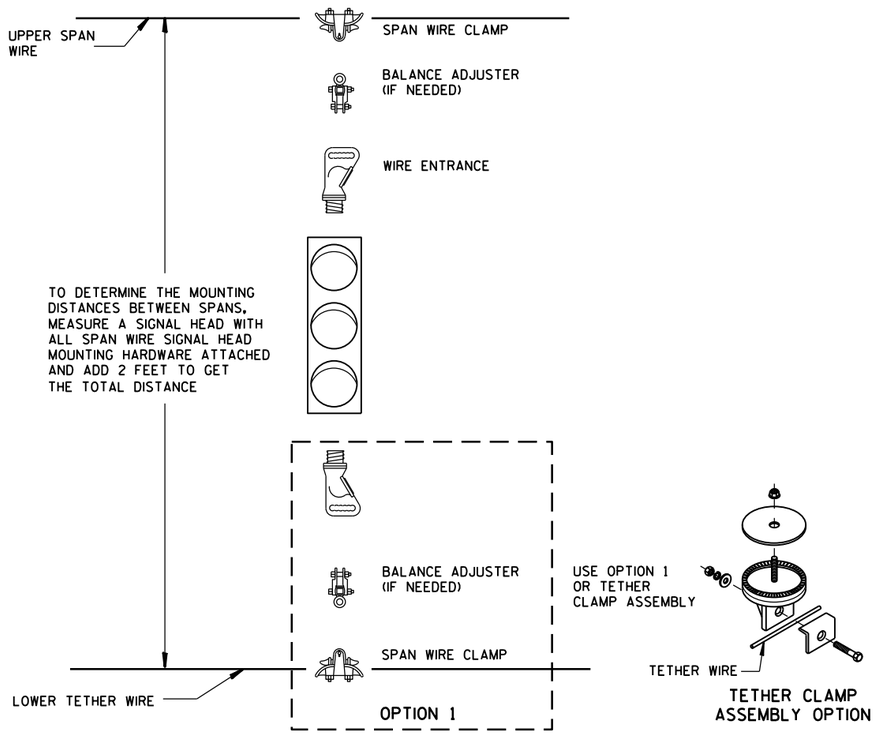
SPAN WIRE TEMPORARY TRAFFIC SIGNAL
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVED June. 2015 (DATE) /S/ Ahmet Demirbilek STATE ELECTRICAL
FHWA

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S.D.D. 9 G 1-4e

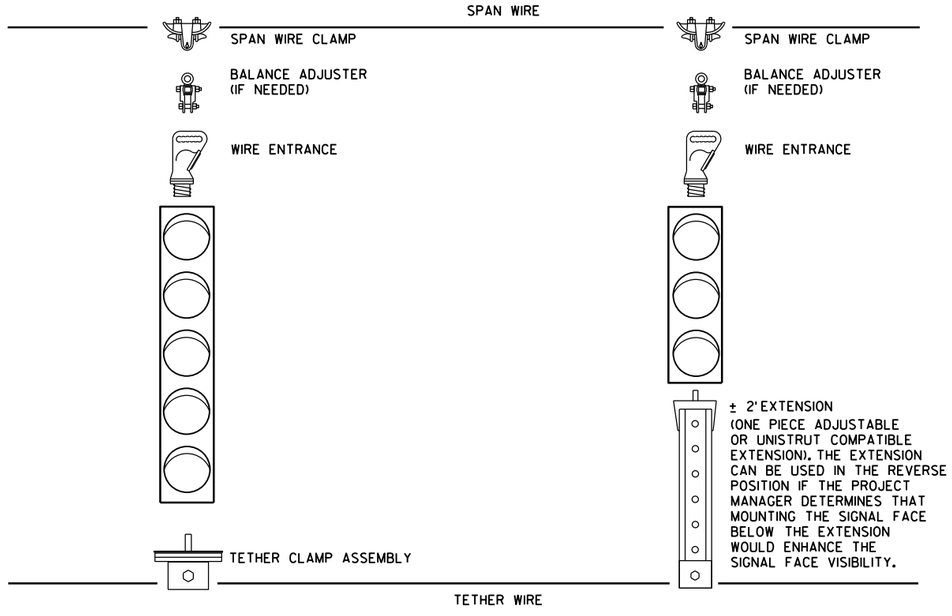


TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TETHER CLAMP ASSEMBLY OPTION

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

June. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

447

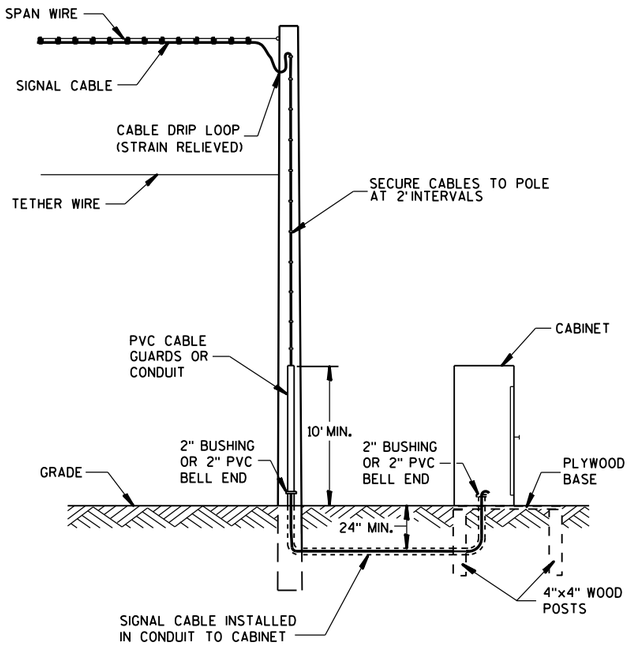
FHWA

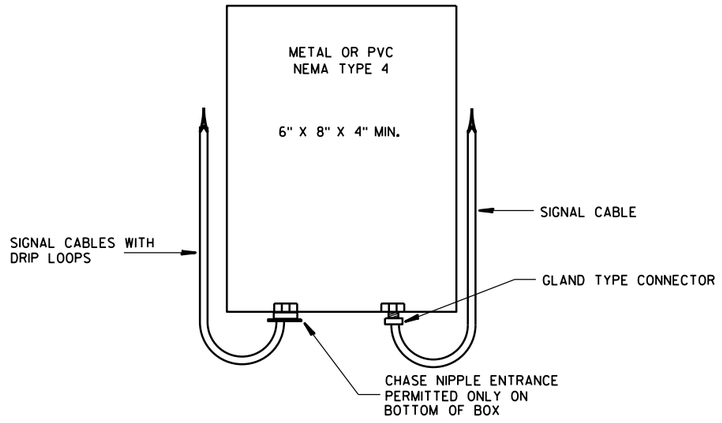
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S.D.D. 9 G 1-4f

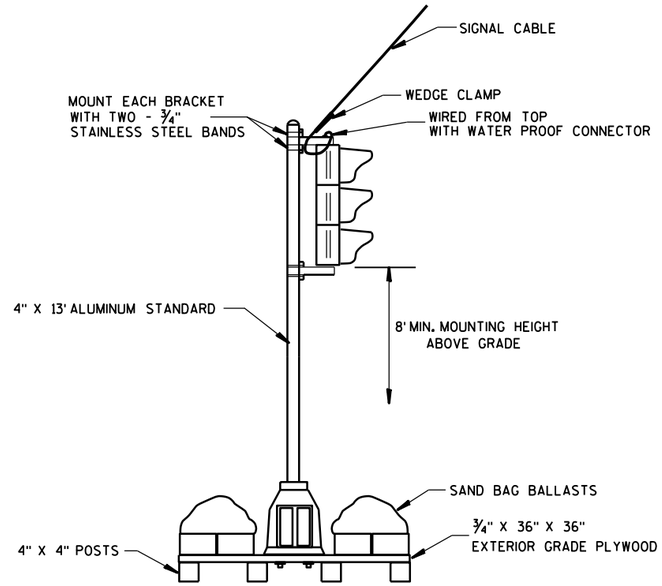
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S.D.D. 9 G 1-4f

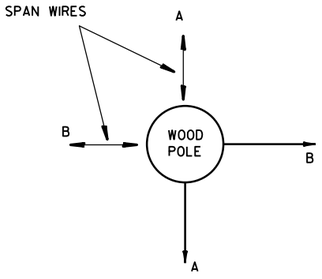




SPLICE BOX

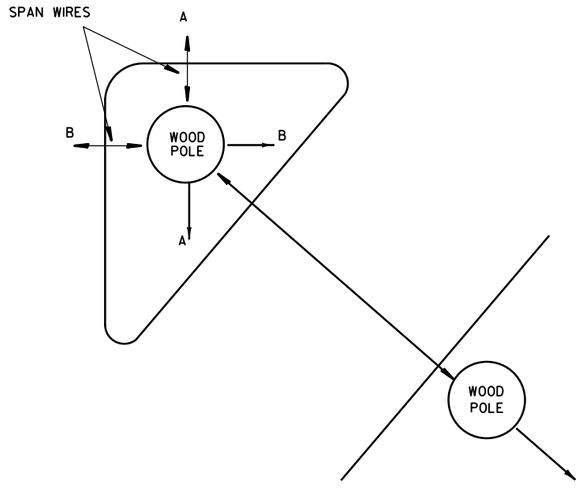


TYPICAL SKID TYPE TEMPORARY

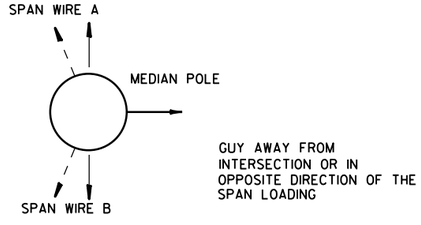


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

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

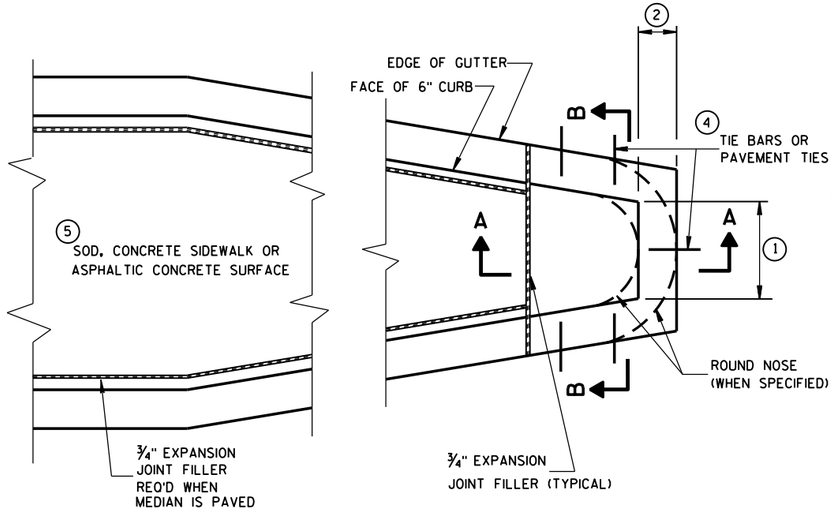
APPROVED
June, 2015 — DATE
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FHWA

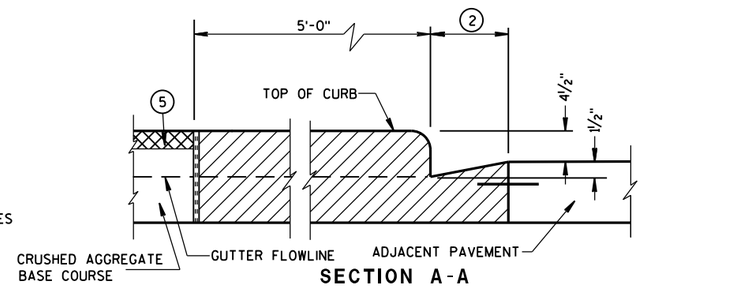
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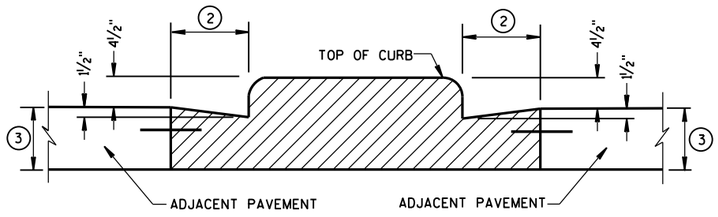
S.D.D. 9 G 1-4g

6

S.D.D. 9 G 1-4g







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.

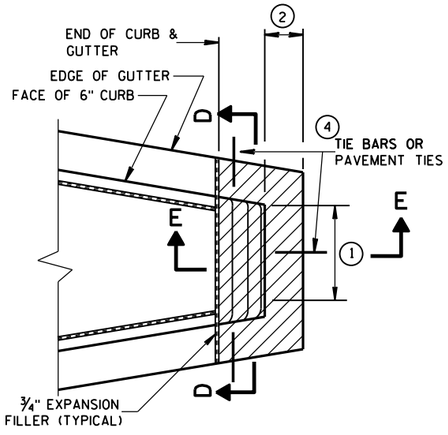
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

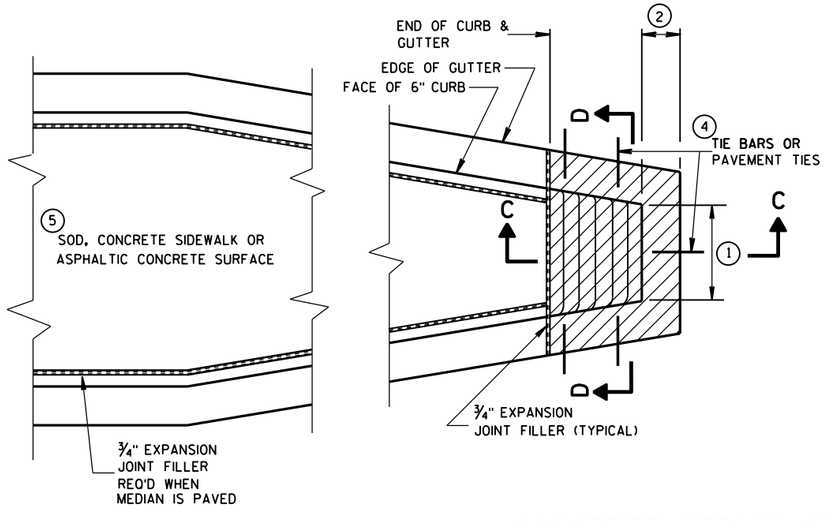
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

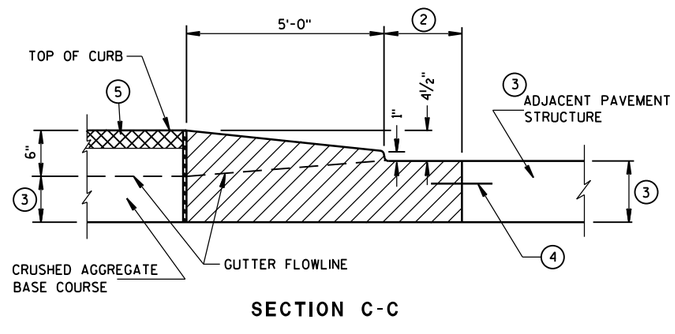
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

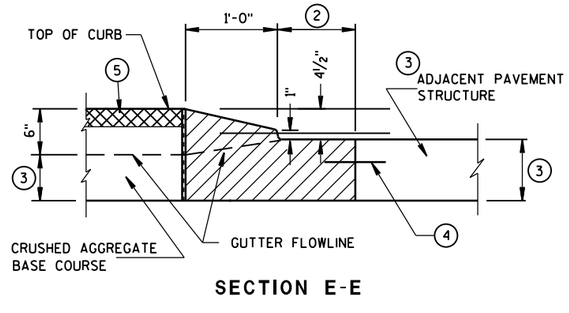
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



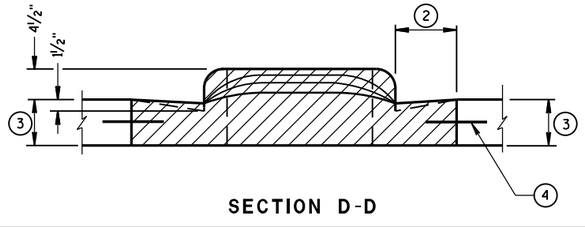






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

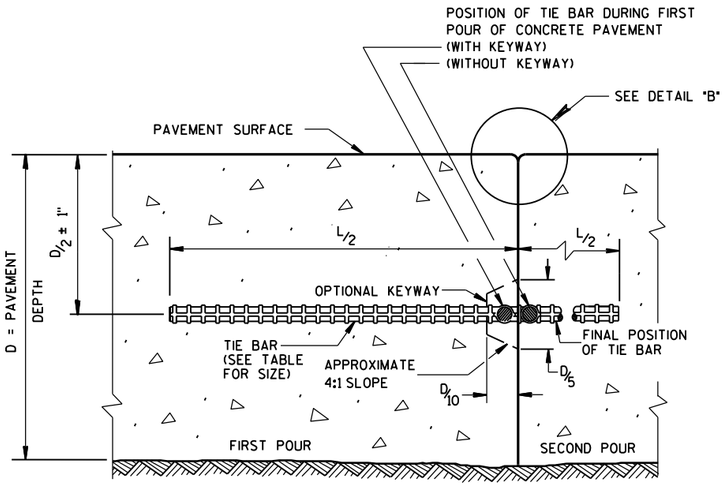
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zoga
ROADWAY STANDARDS D ENGINEER
FHWA

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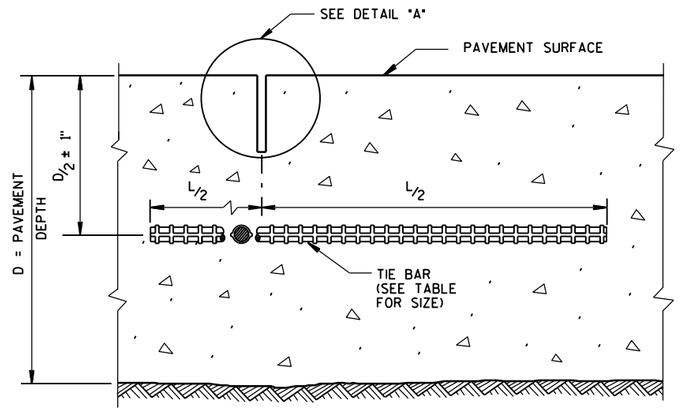
S.D.D. 11 B 2-2

6

S.D.D. 11 B 2-2



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.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

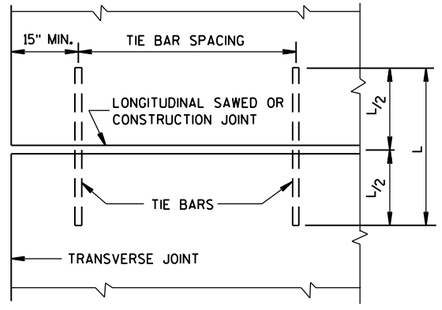
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

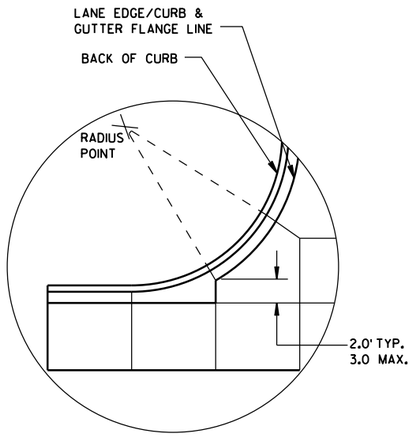
CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

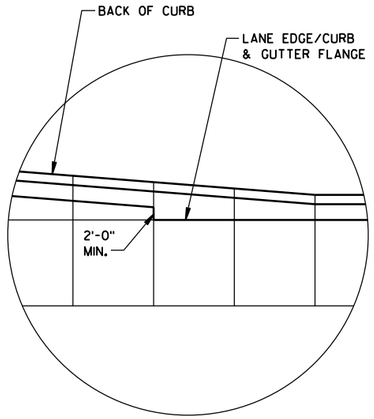
APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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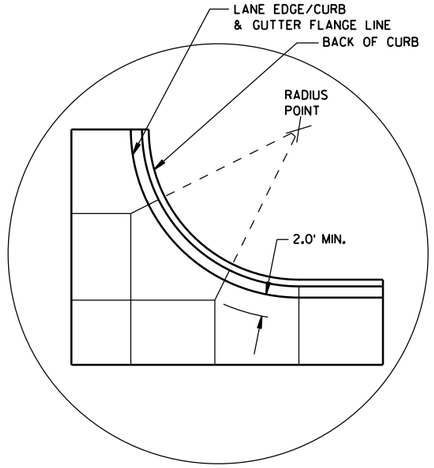
S.D.D. 13 C 1-18



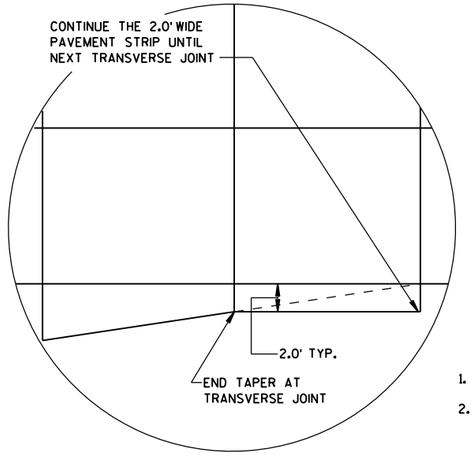
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

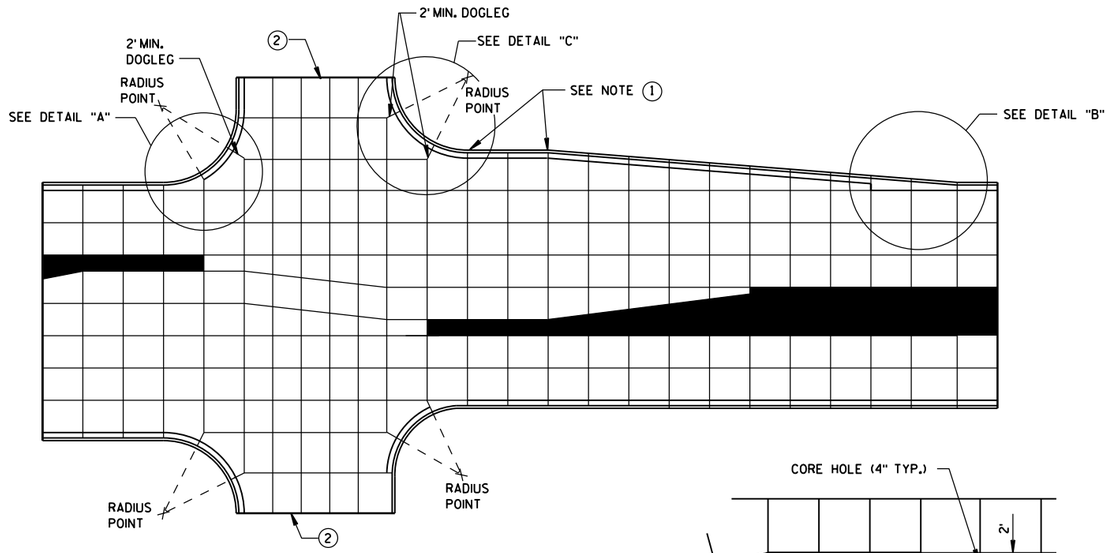
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

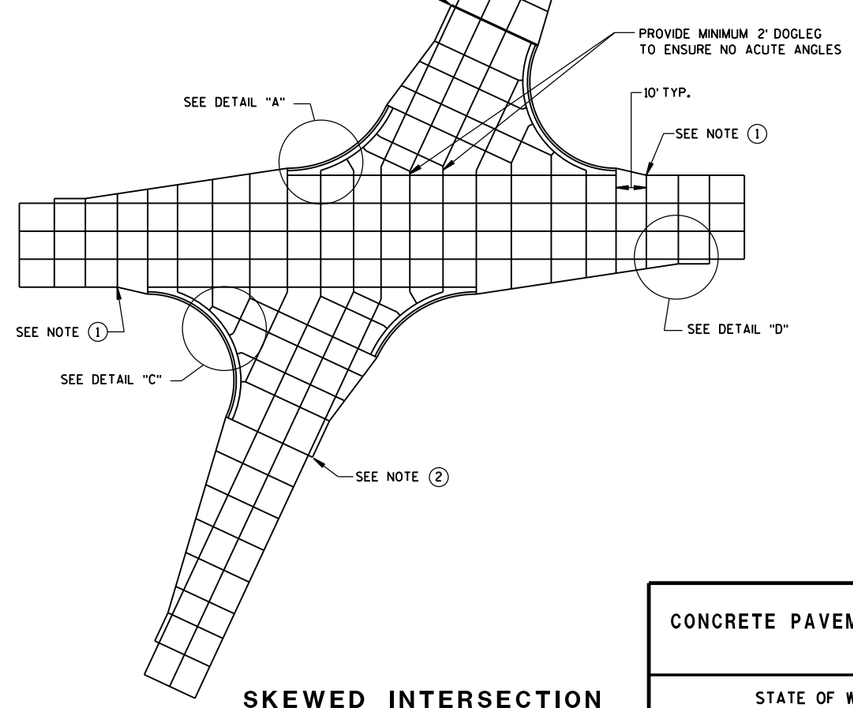
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



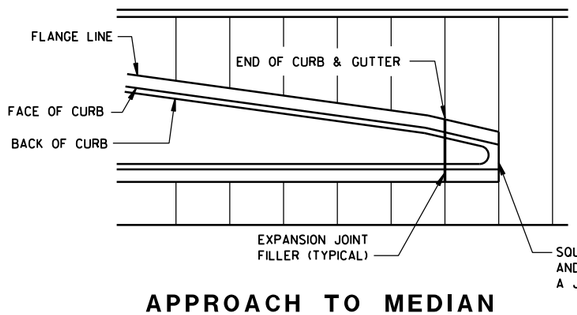
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

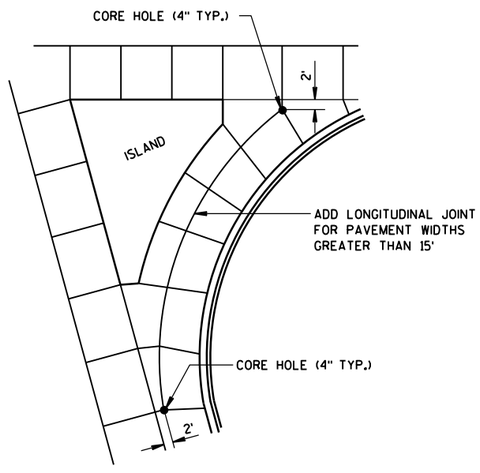
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

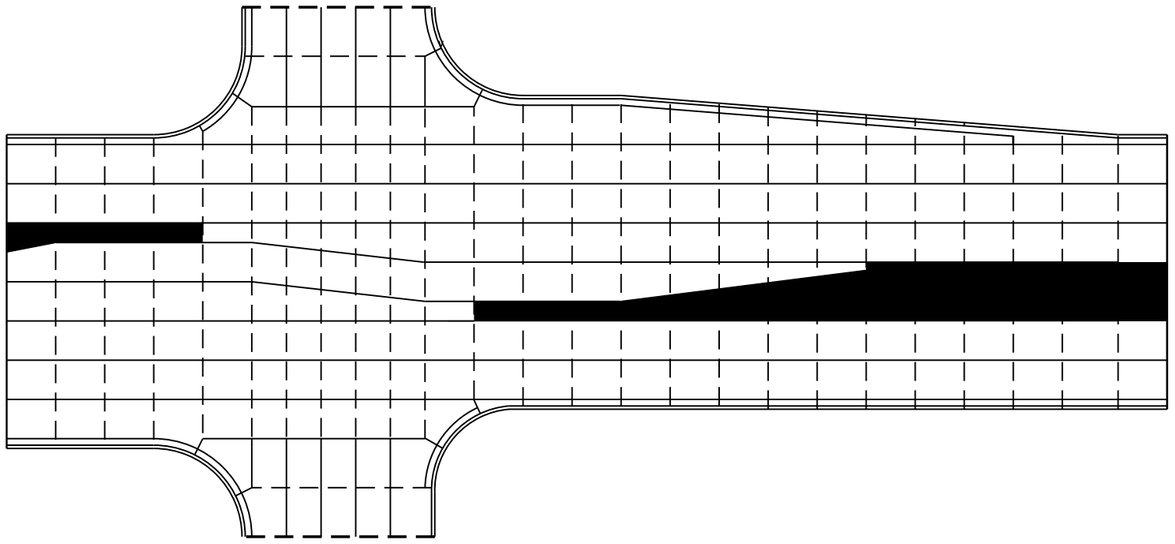
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S.D.D. 13 C 18-3a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

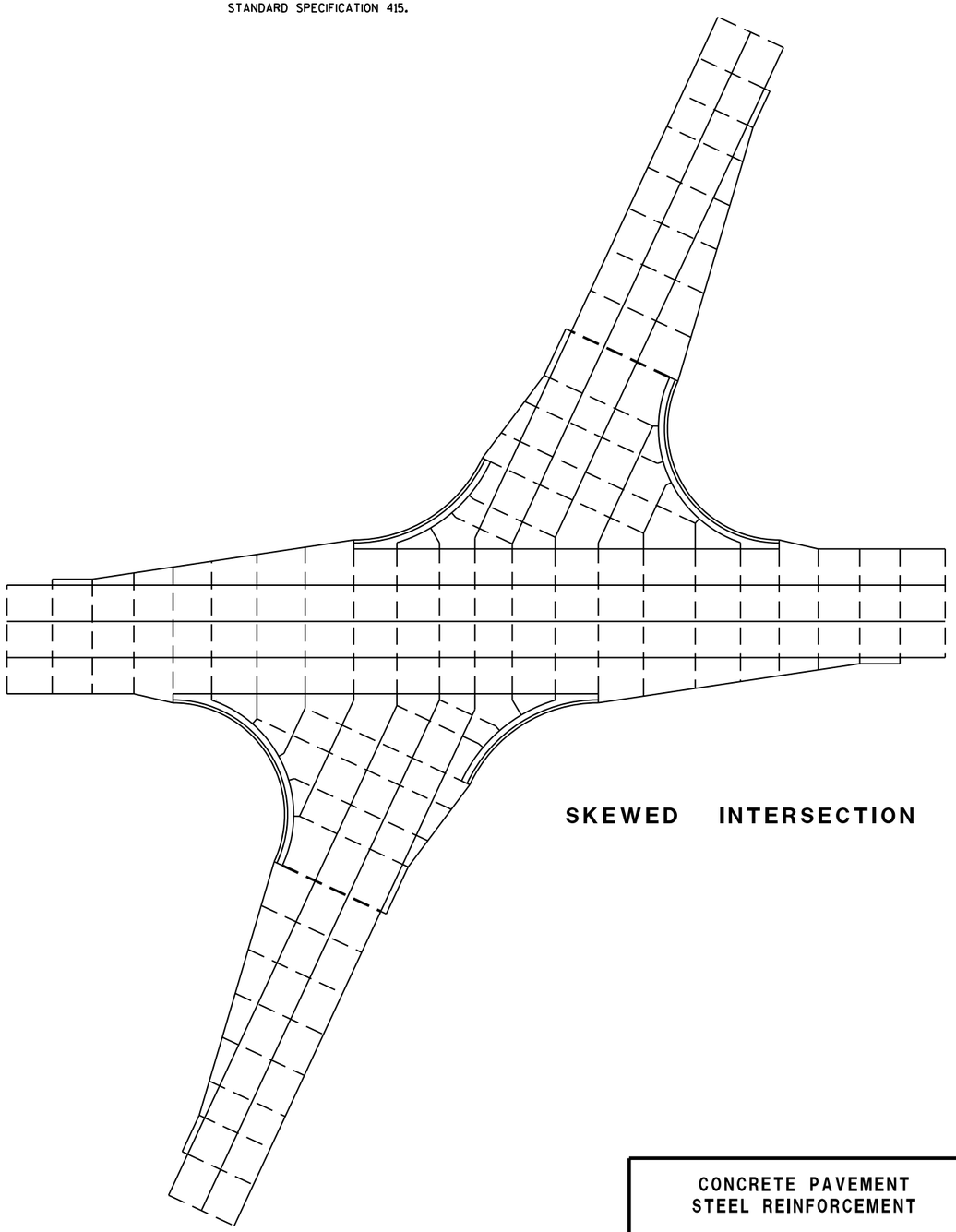
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

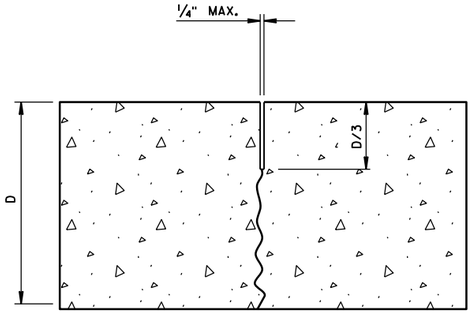
S.D.D. 13 C 18-3b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

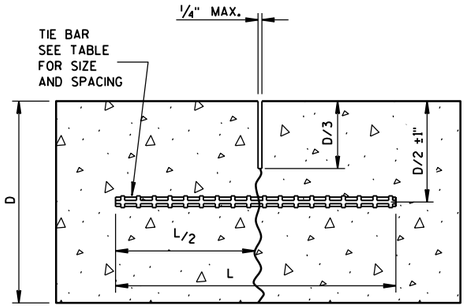
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 C 18-3b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

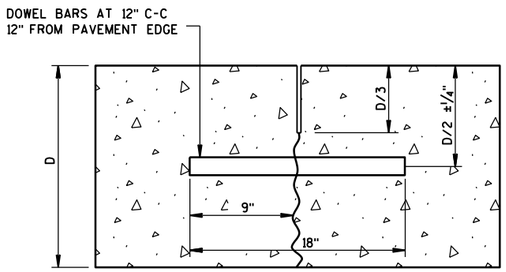
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

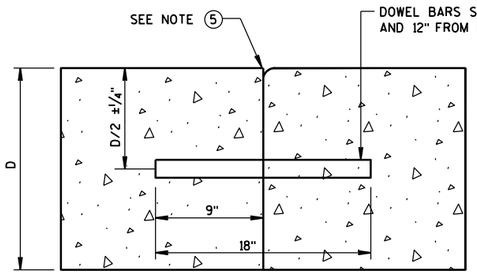
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



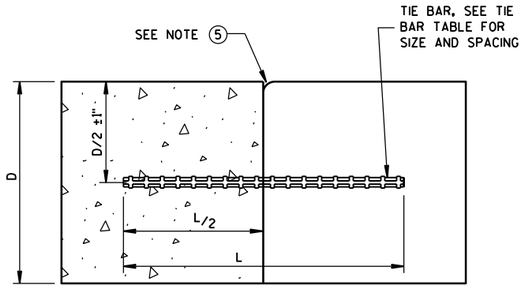
DOWELED-TRANSVERSE

CONTRACTION JOINTS

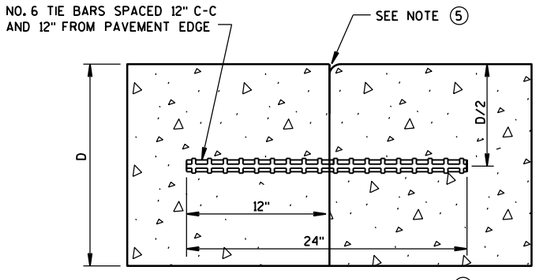
SEE NOTE (2)



DOWELED TRANSVERSE (3)

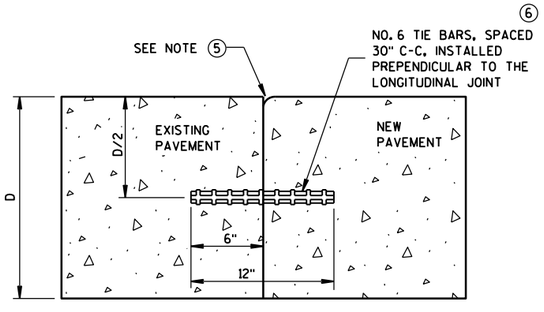


TIED LONGITUDINAL



TIED TRANSVERSE (3)

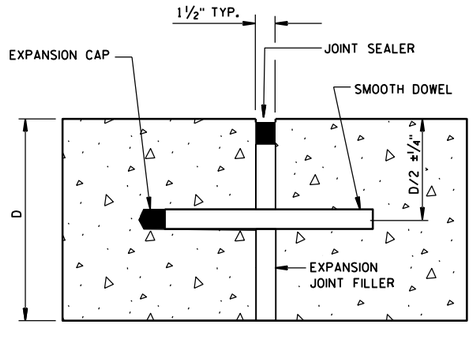
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

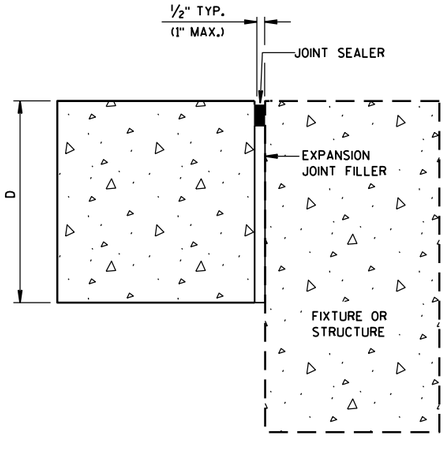
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

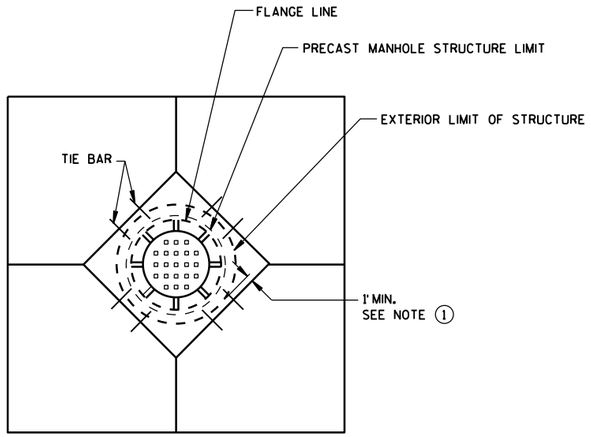
EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

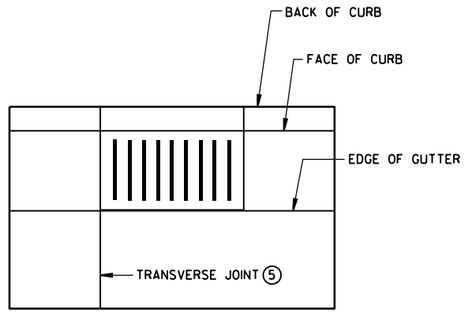
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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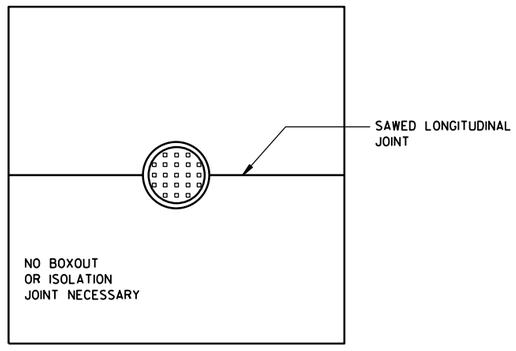
S.D.D. 13 C 18-3c



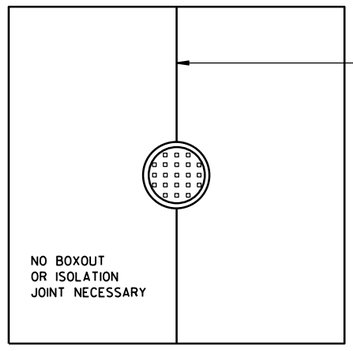
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



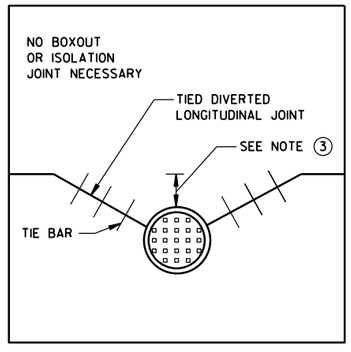
INLET WITH TRANSVERSE JOINT



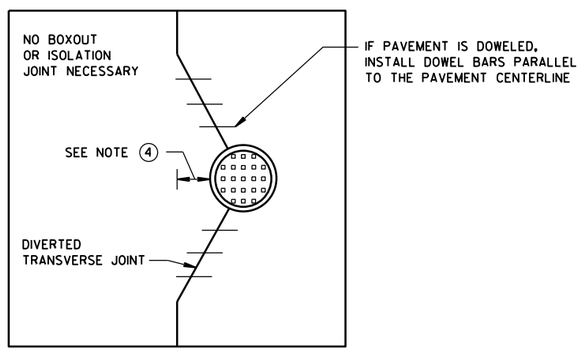
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

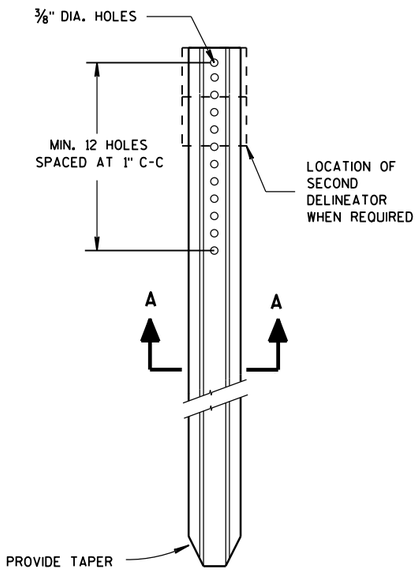
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

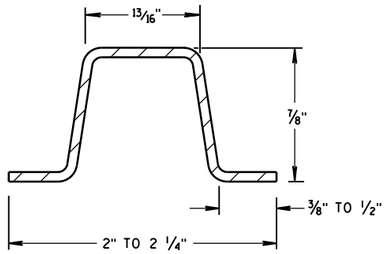
APPROVED
June, 2015
DATE
/S/ Peter Kemp, P.E.
PAVEMENT SUPER
FHWA

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S.D.D. 13 C 18-3d

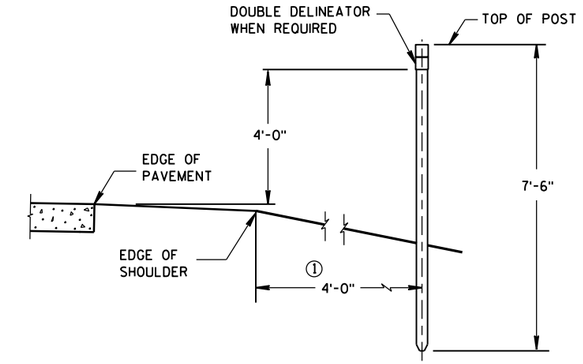


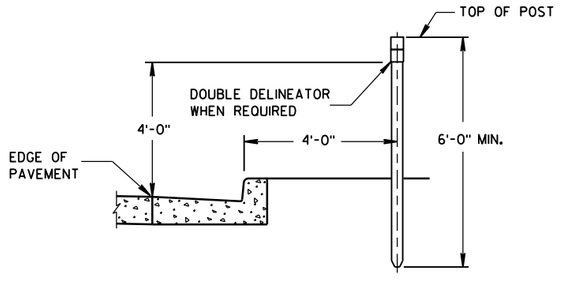
DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.



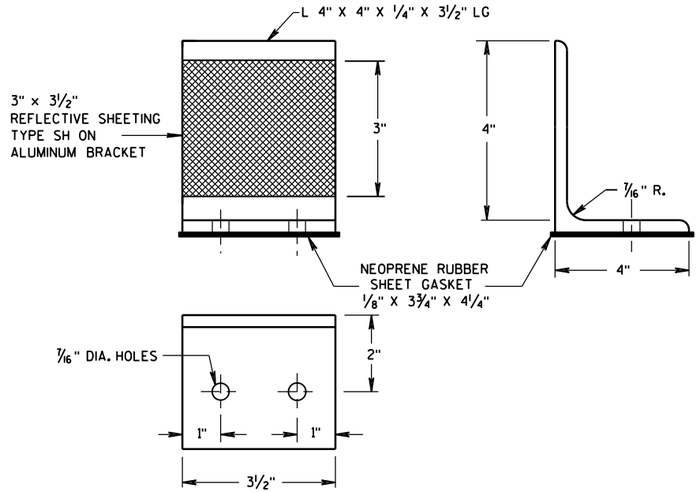


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

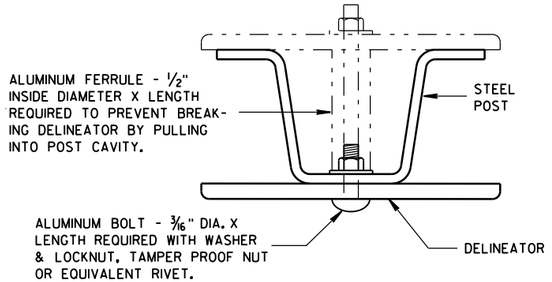
GENERAL NOTES

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

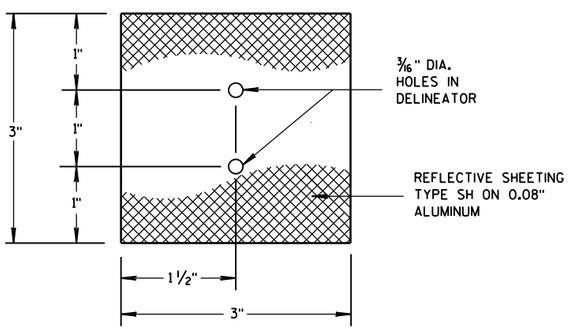
① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



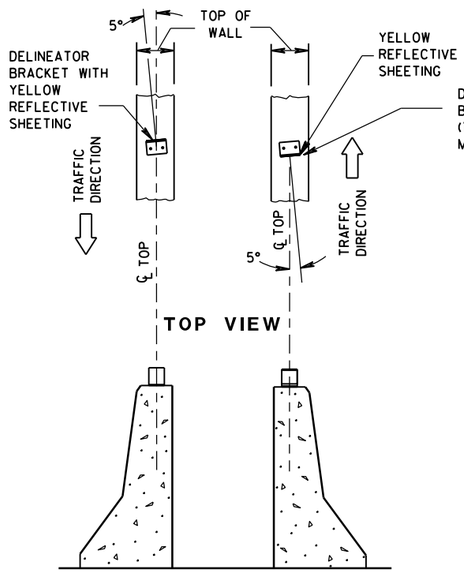
DELINEATOR BRACKET



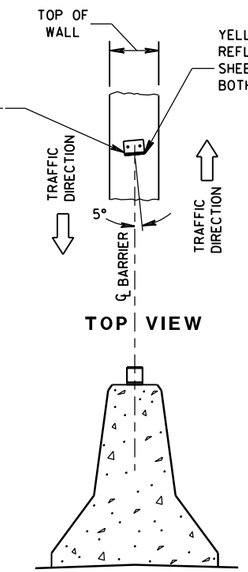
MOUNTING DETAIL FOR DELINEATOR



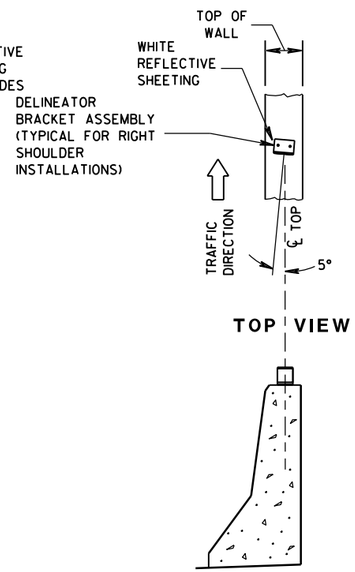
3"x 3" DELINEATOR



DOUBLE BARRIERS IN MEDIAN

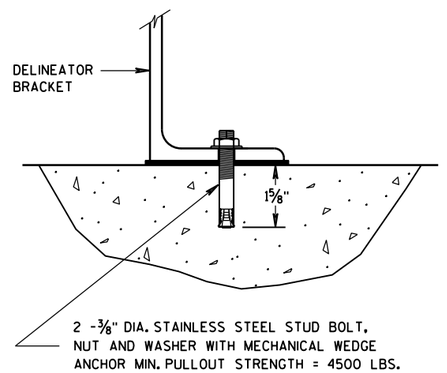


MEDIAN BARRIER



BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

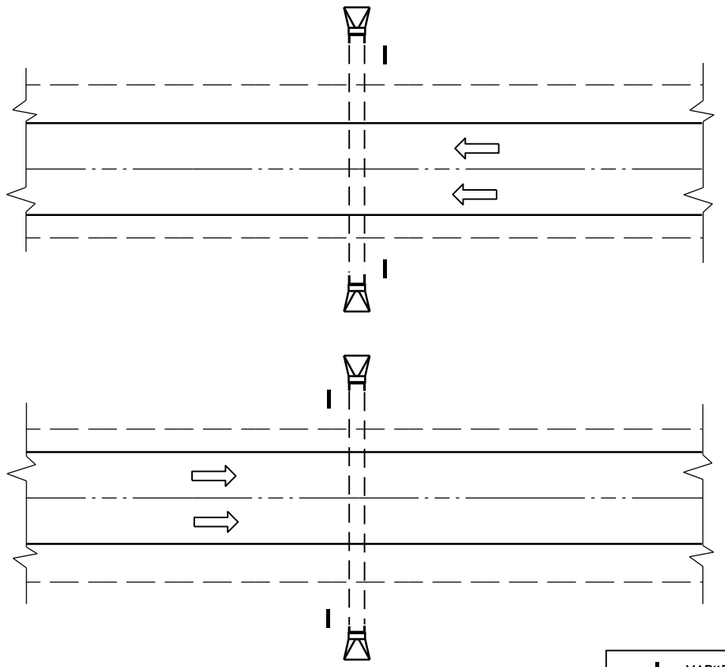
APPROVED
7/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC E
FHWA

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S.D.D. 15 A 2-8

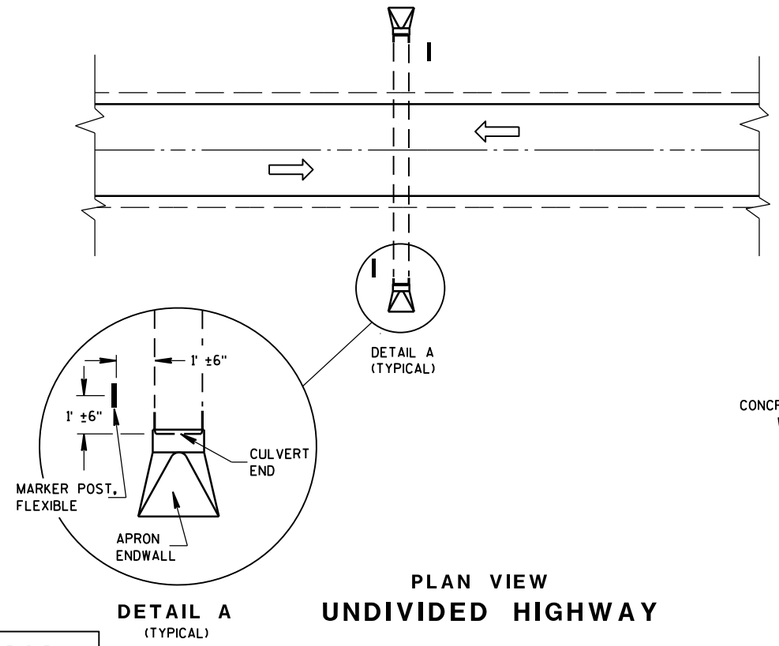
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S.D.D. 15 A 2-8



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

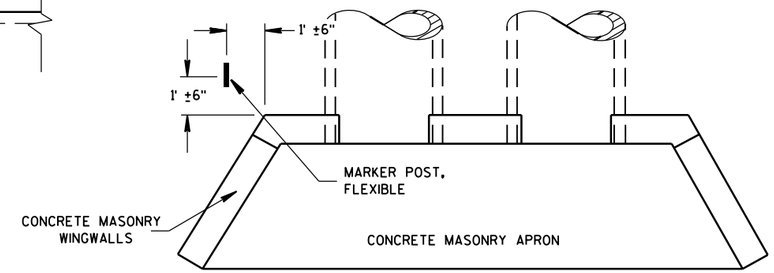
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

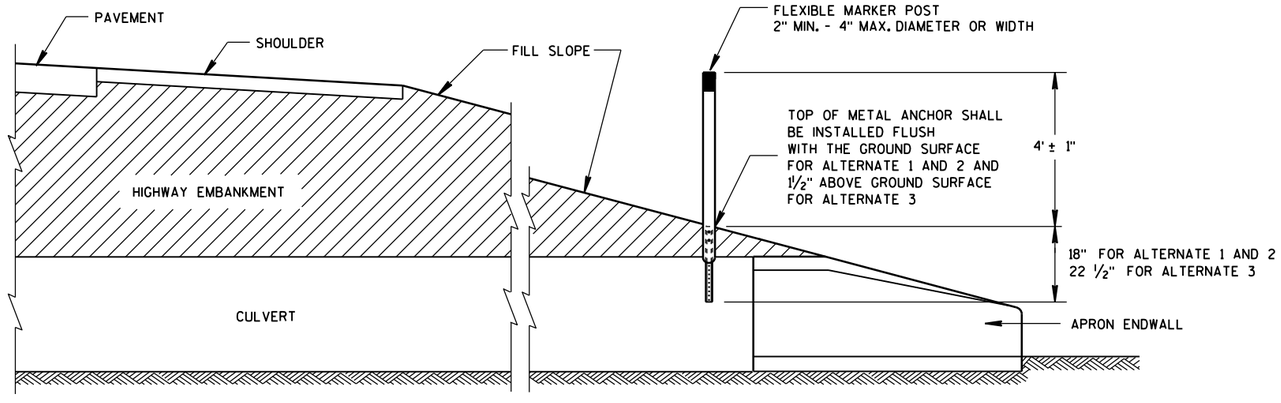
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

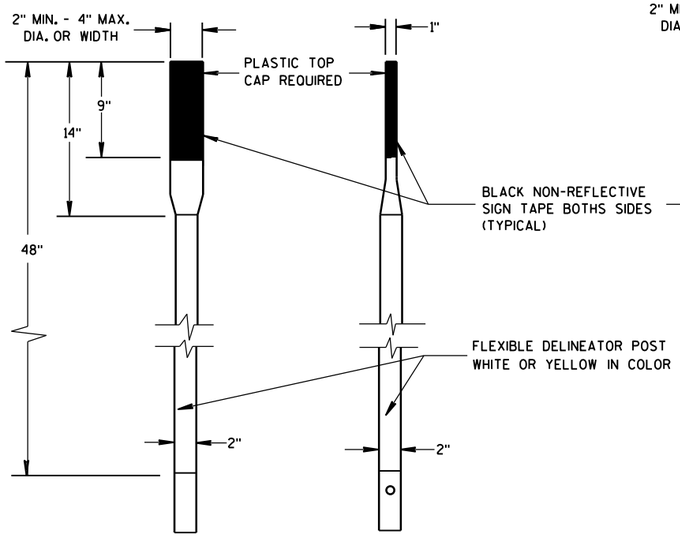
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

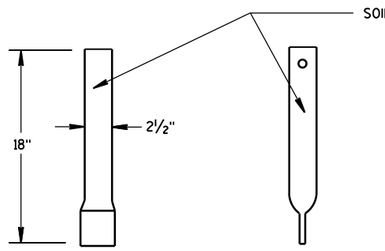
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S.D.D. 15 A 3-2a

6

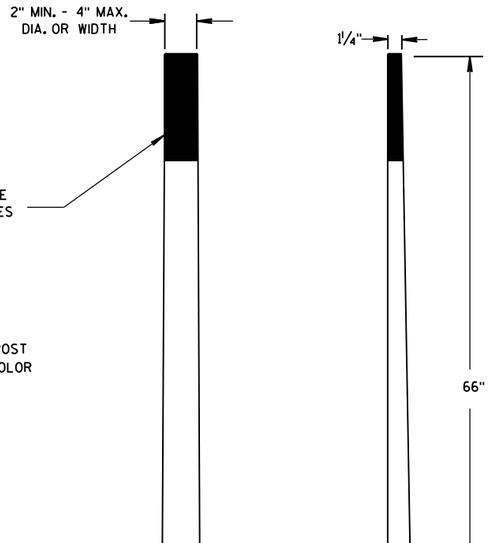
S.D.D. 15 A 3-2a





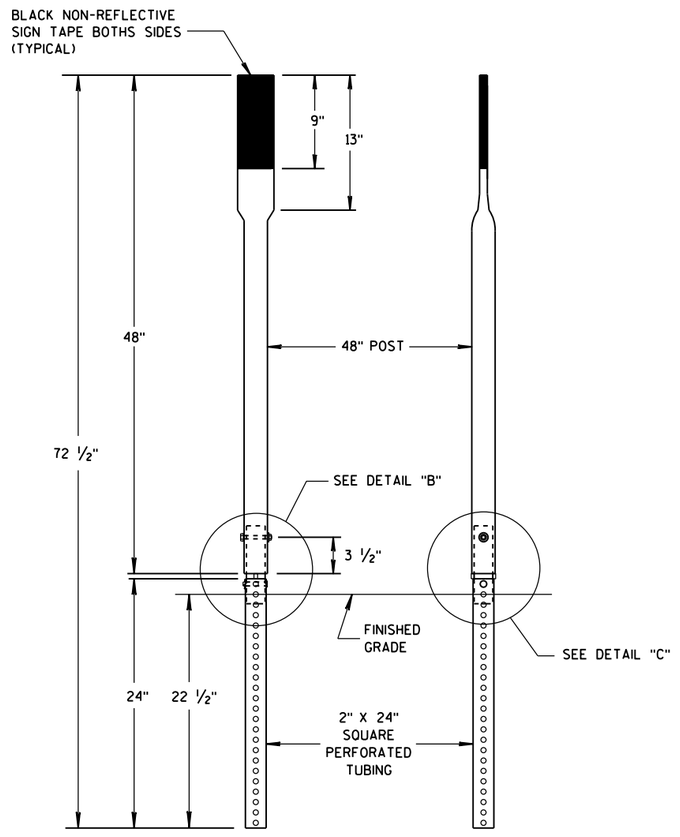
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

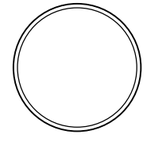
ALTERNATE 2



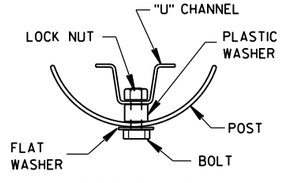
FRONT VIEW SIDE VIEW

ALTERNATE 3

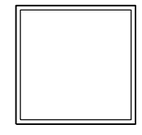
FLEXIBLE MARKER POSTS



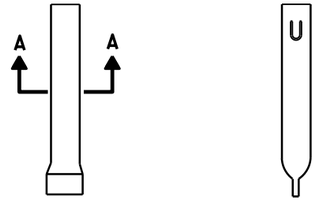
SECTION A-A



SECTION B-B

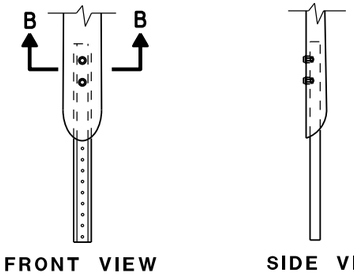


SECTION C-C



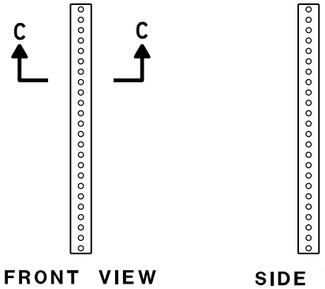
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

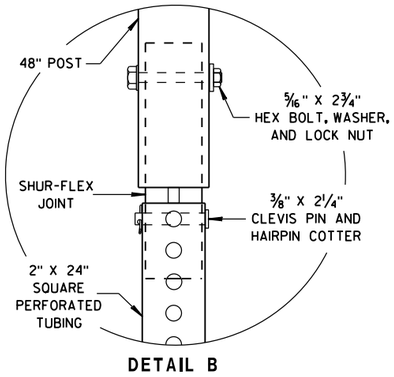
ALTERNATE 2



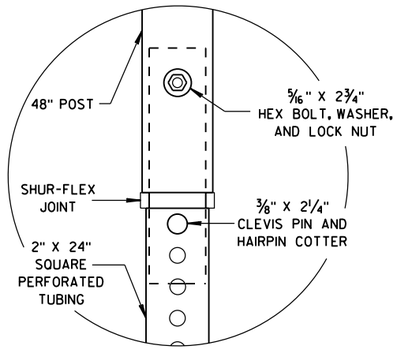
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
457
IGN
FHWA

6

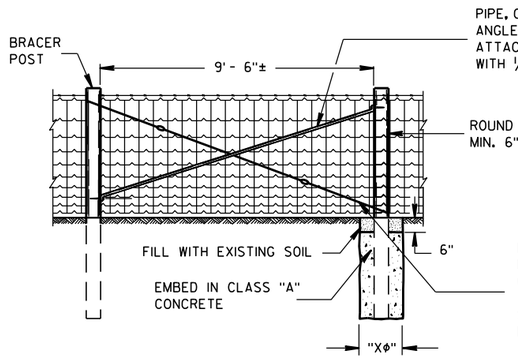
S.D.D. 15 A 3-2b

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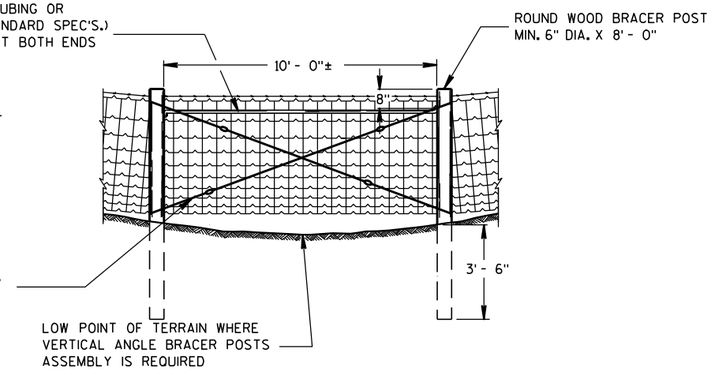
S.D.D. 15 A 3-2b

NOTE: PULL OR STRETCHER POST ASSEMBLIES SHALL BE PLACED MIDWAY BETWEEN END POSTS AND CORNER POSTS WHERE A RUN OF FENCE EXCEEDS 660' BUT IS LESS THAN 1,320'. FOR RUNS OF FENCE IN EXCESS OF 1,320' MAXIMUM SPACING OF PULL OR STRETCHER POST ASSEMBLIES SHALL BE 660'± C-C.

ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



PULL OR STRETCHER POSTS ASSEMBLY



VERTICAL ANGLE BRACER POSTS ASSEMBLY

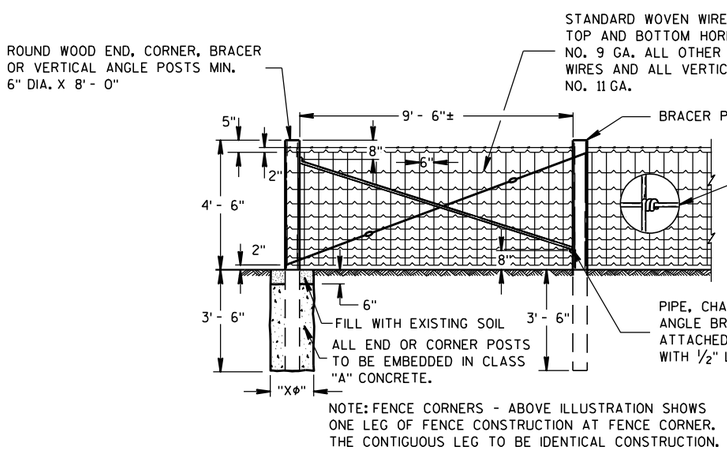
GENERAL NOTES

"XΦ" = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VERTICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

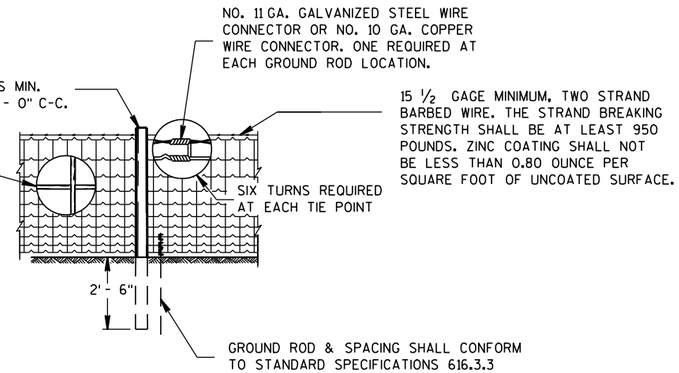
DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EXPANSION AND CONTRACTION. STAPLE ARRANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MANUFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.



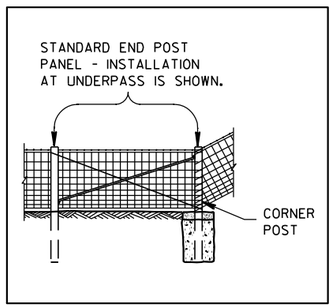
NOTE: FENCE CORNERS - ABOVE ILLUSTRATION SHOWS ONE LEG OF FENCE CONSTRUCTION AT FENCE CORNER. THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.

END OR CORNER POSTS ASSEMBLY

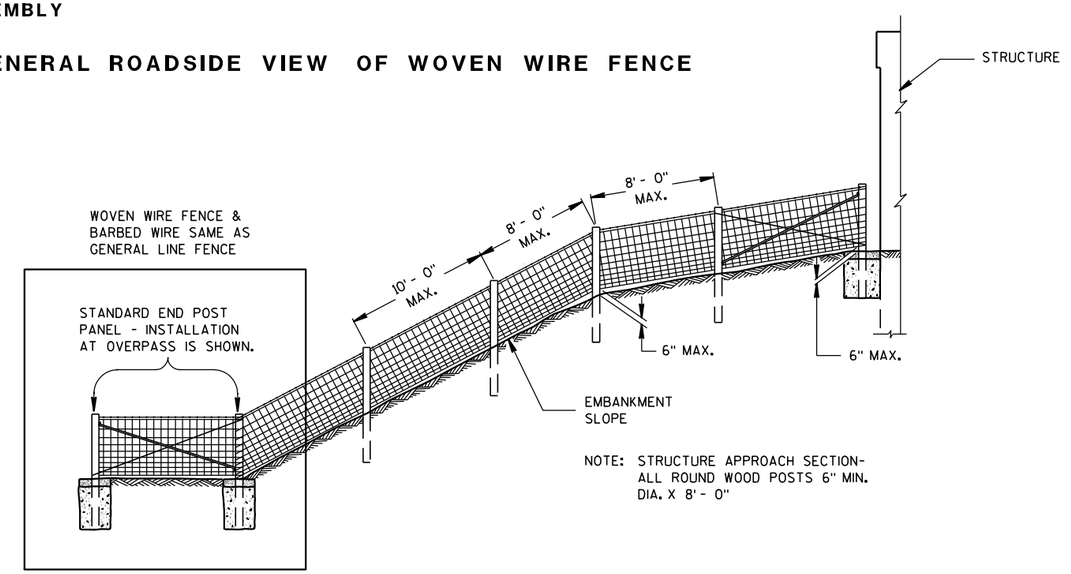


LINE FENCE CONSTRUCTION

GENERAL ROADSIDE VIEW OF WOVEN WIRE FENCE



ALTERNATE FENCE DESIGN AT STRUCTURE



NOTE: STRUCTURE APPROACH SECTION- ALL ROUND WOOD POSTS 6" MIN. DIA. X 8' - 0"

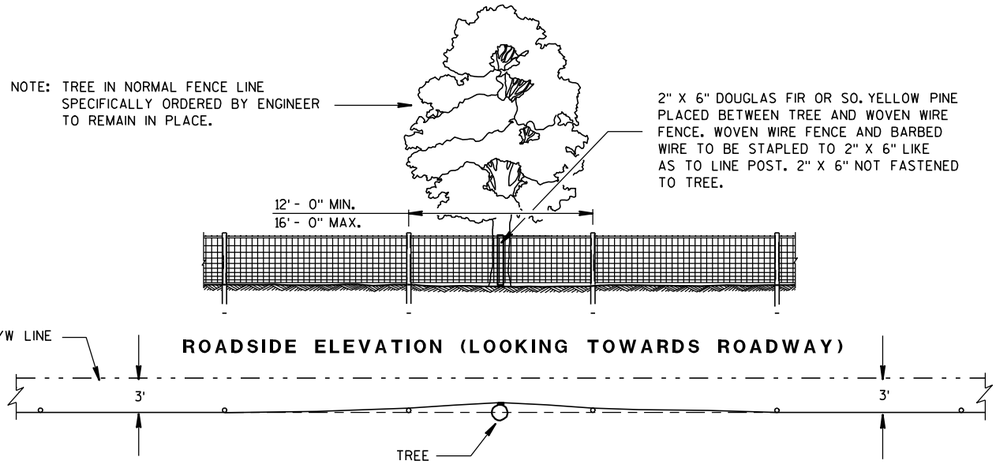
FENCE DESIGN AT STRUCTURE APPROACH

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

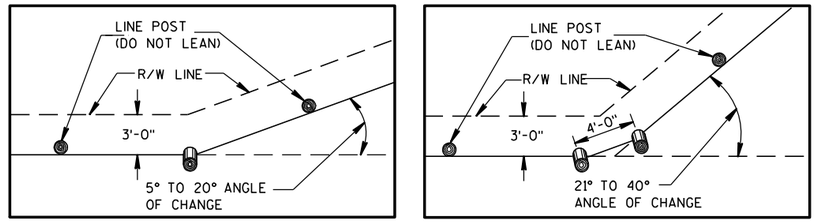
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S.D.D. 15 B 1-8a
S.D.D. 15 B 1-8a



PLAN VIEW

FENCE DESIGN AT TREES REMAINING IN NORMAL FENCE LINE



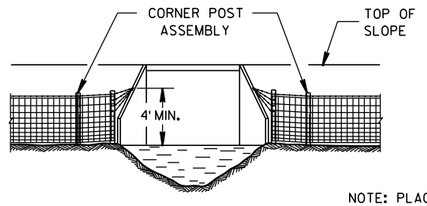
PLAN VIEW
SINGLE POST CORNER

PLAN VIEW
DOUBLE POST CORNER

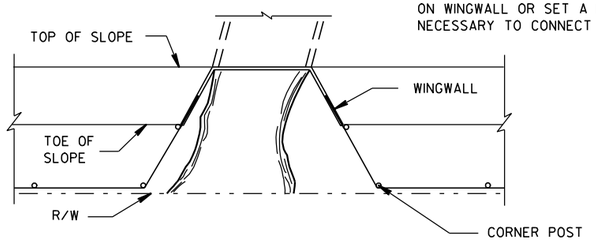
RIGHT OF WAY LINE CHANGE 40° AND LESS

NOTE: SINGLE AND DOUBLE POSTS SHALL BE A MIN. 6" DIA. X 8'-0" WITH A LEAN OF 4" TOWARD THE OUTSIDE OF THE CURVE.

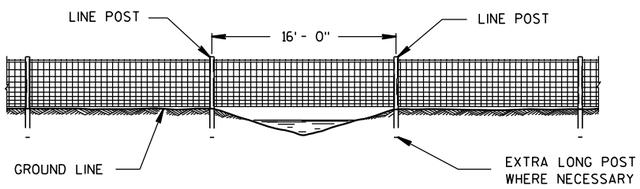
WHEN THE RIGHT OF WAY LINE CHANGE IS MORE THAN 40° USE THE CORNER OR STRETCHER POSTS ASSEMBLY.



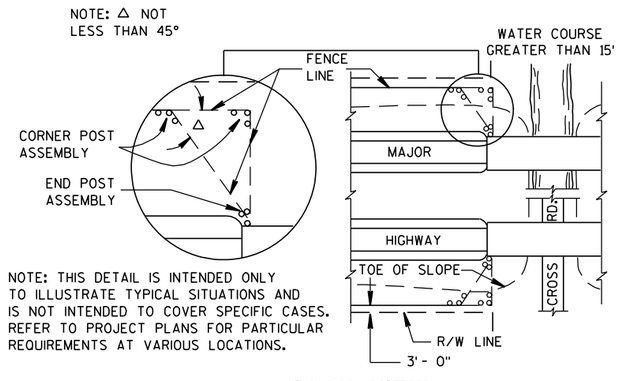
NOTE: PLACE A MINIMUM OF 4 STRANDS OF BARBED WIRE, 6" MAXIMUM CENTERS IN FAN SHAPE CONNECTED TO AN EYE BOLT ON WINGWALL OR SET A LONE POST WHEN NECESSARY TO CONNECT BARBED WIRE.



FENCE INSTALLATION TO WINGWALLS

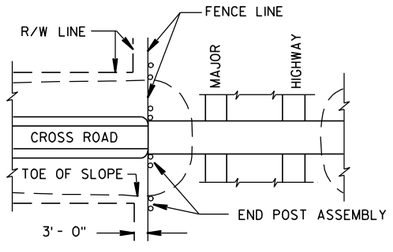


FENCE CONSTRUCTION OVER STREAM COURSES OF 15 FT. OR LESS IN WIDTH



PLAN VIEW

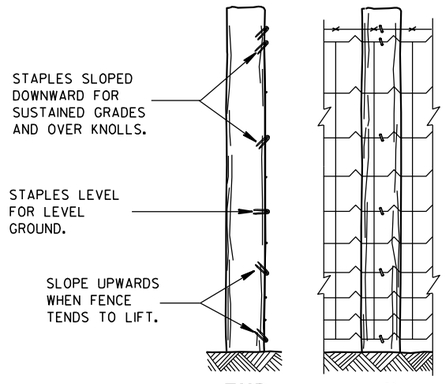
MAJOR HIGHWAY OVERPASS OR STREAM COURSE CROSSING OF GREATER THAN 15 FT. IN WIDTH



PLAN VIEW

MAJOR HIGHWAY UNDERPASS

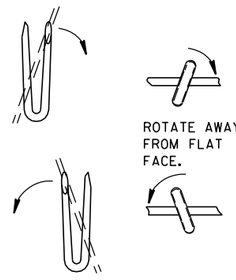
NOTE: WHEN POSTS ARE DRIVEN THE SMALL END SHALL BE DOWN.



END ELEVATION

FARM SIDE ELEVATION

FENCE MOUNTING DETAIL



LINE POST

FENCE LOCATION AT STRUCTURES

FENCE WOVEN WIRE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/4/2008
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS [illegible]459 [illegible]ENT
ENGINEER
FHWA

6
S.D.D. 15 B 1-8b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

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

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

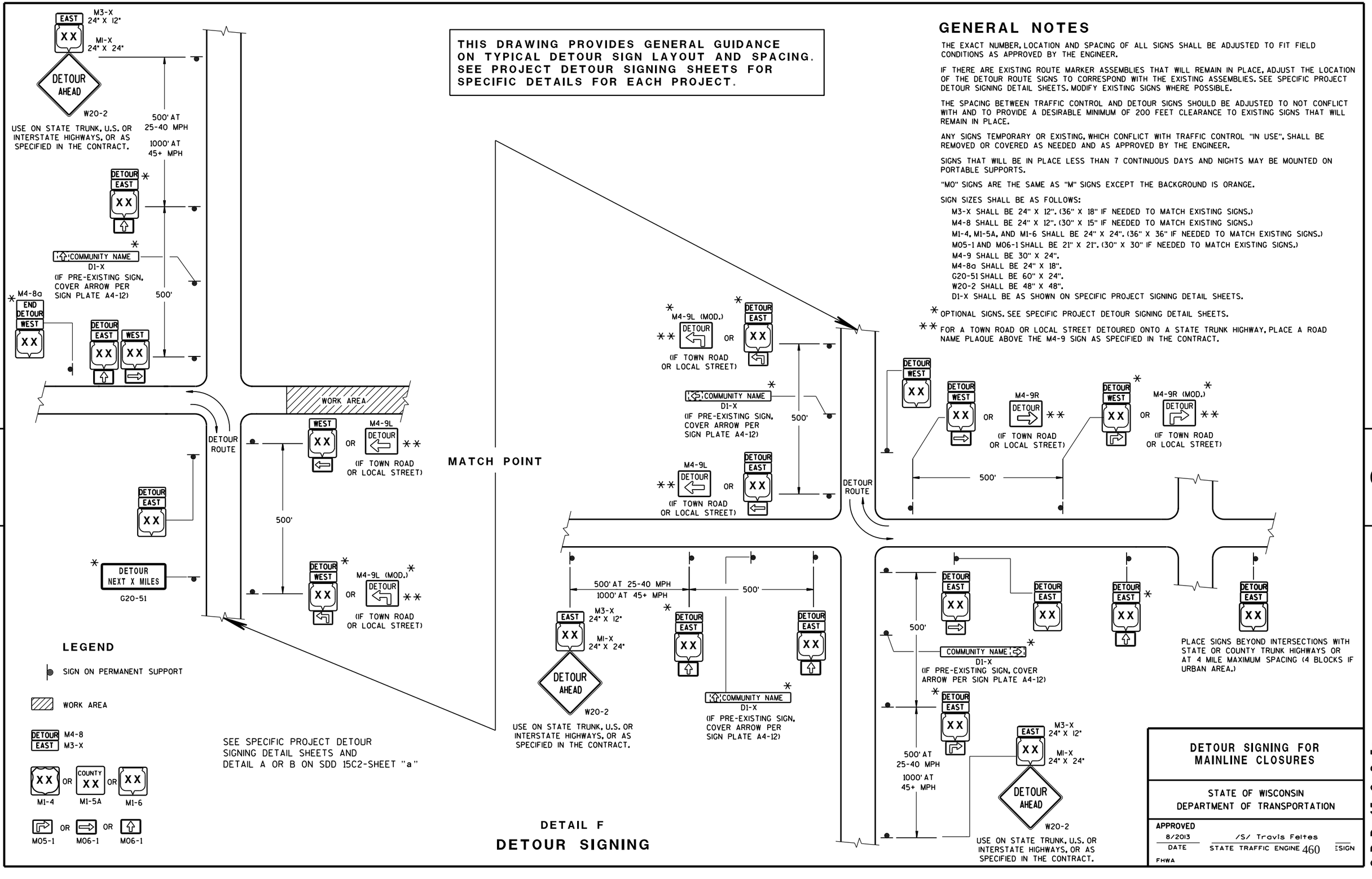
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

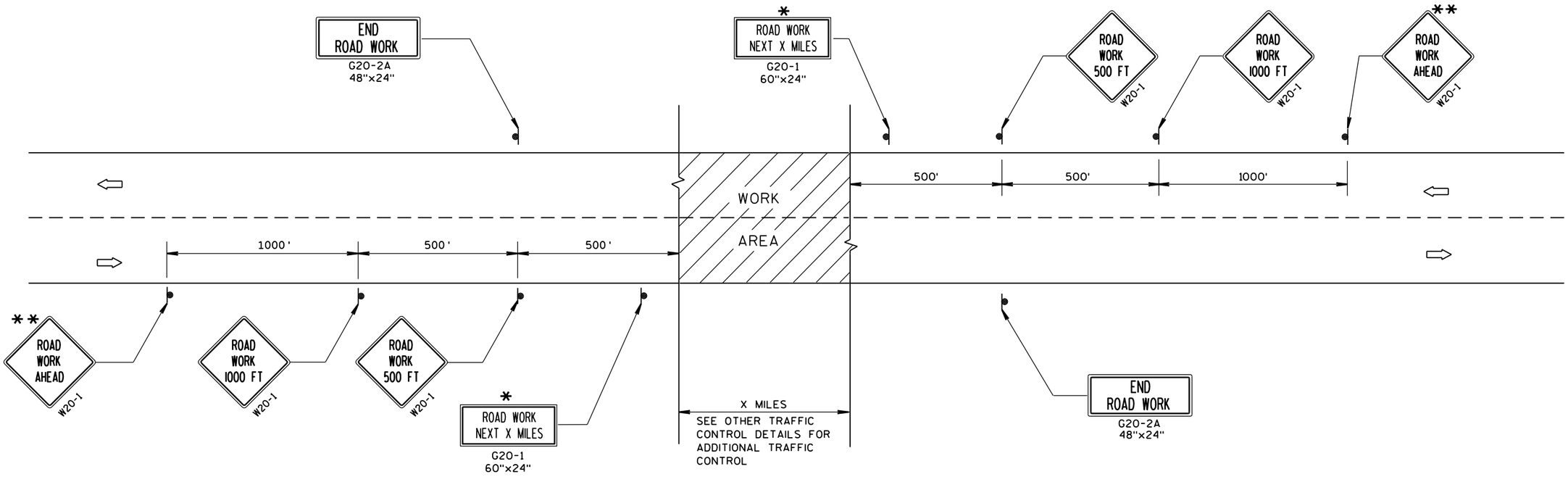
APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

6 S.D.D. 15 C 2-5c



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

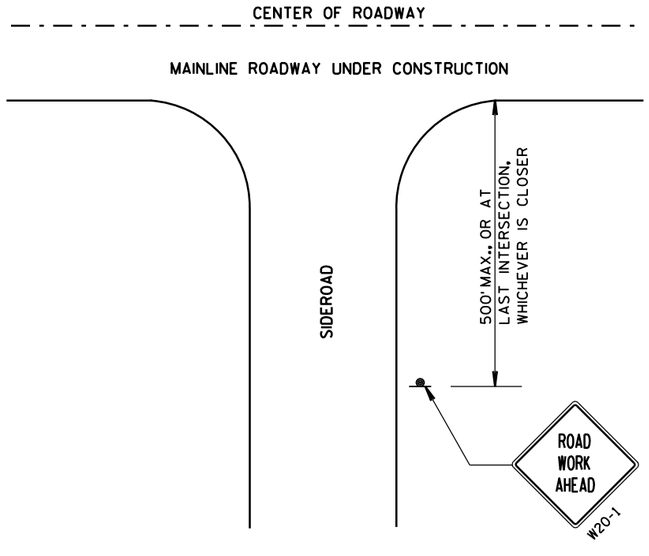
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC ENGINEER

SIGN

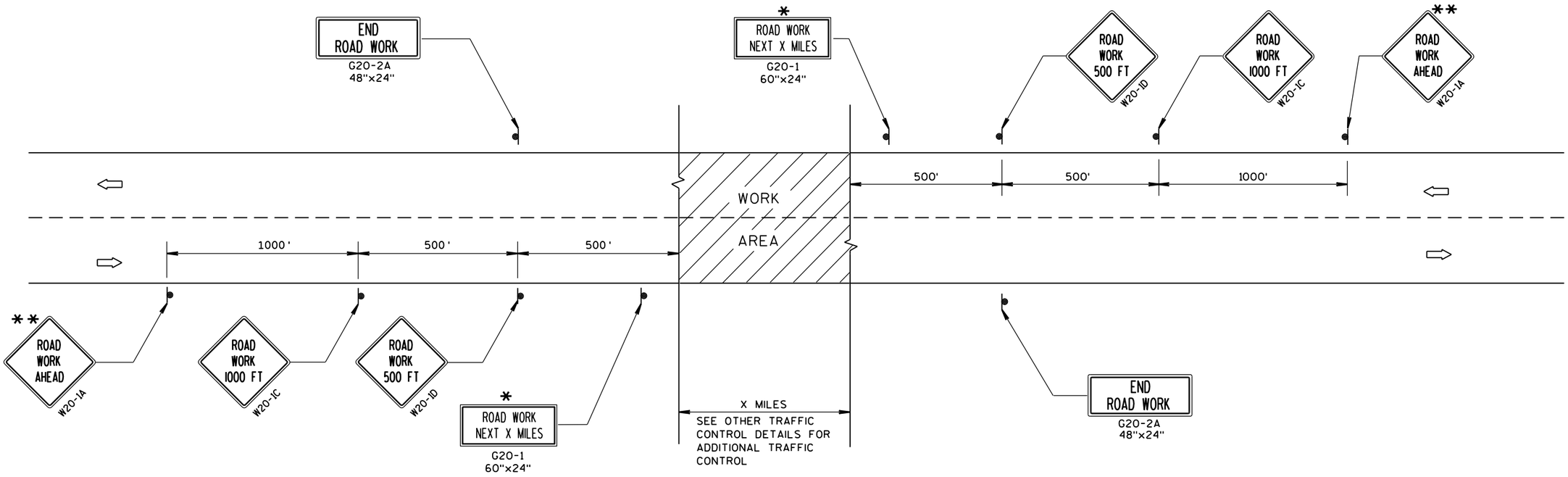
FHWA

6

S.D.D. 15 C 4-2

6

S.D.D. 15 C 4-2



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

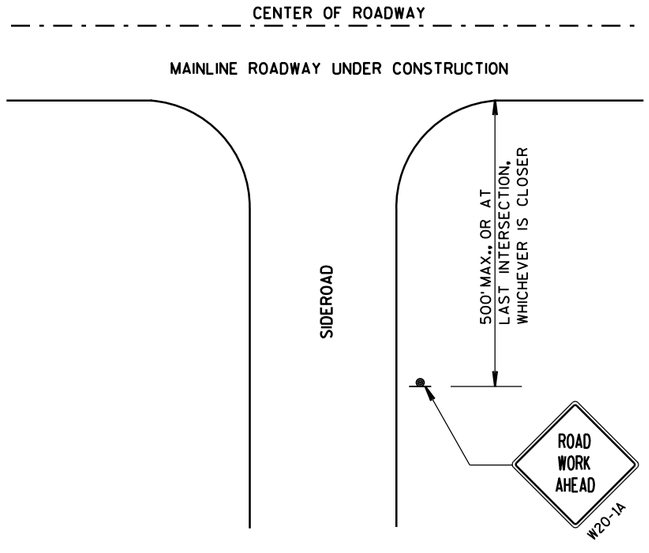
ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

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 W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

FHWA

6

S.D.D. 15 C 4-3

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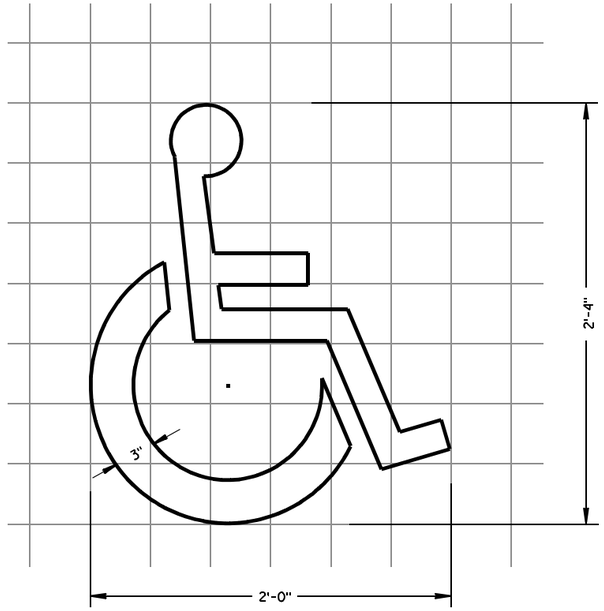
S.D.D. 15 C 4-3

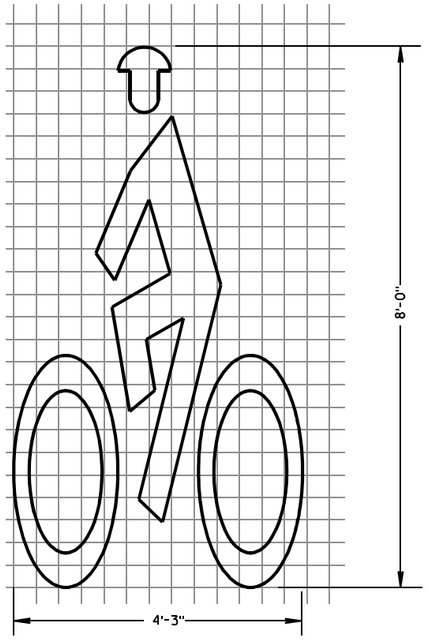
GENERAL NOTES

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

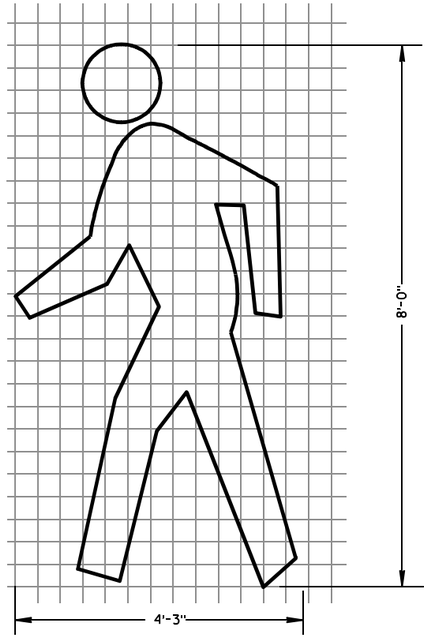
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A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

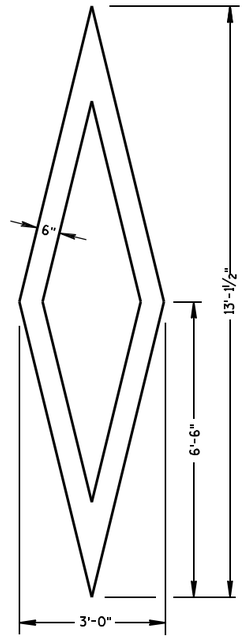




BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N Nathan — STATE TRAFFIC ENGINEER

FHWA

6

S.D.D. 15 C 7-12a

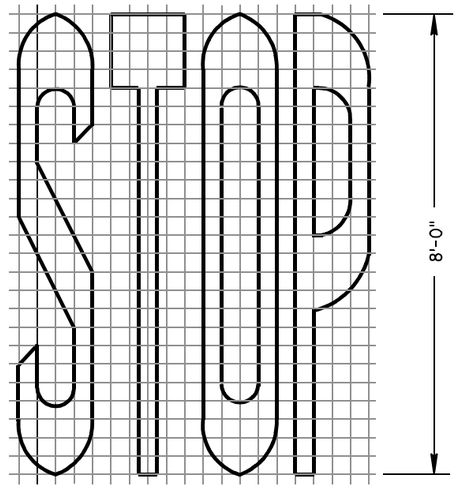
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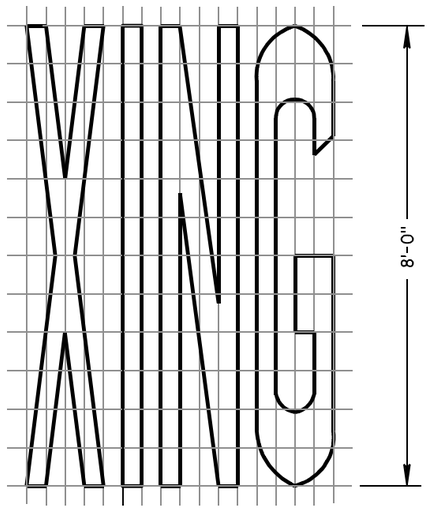
S.D.D. 15 C 7-12a

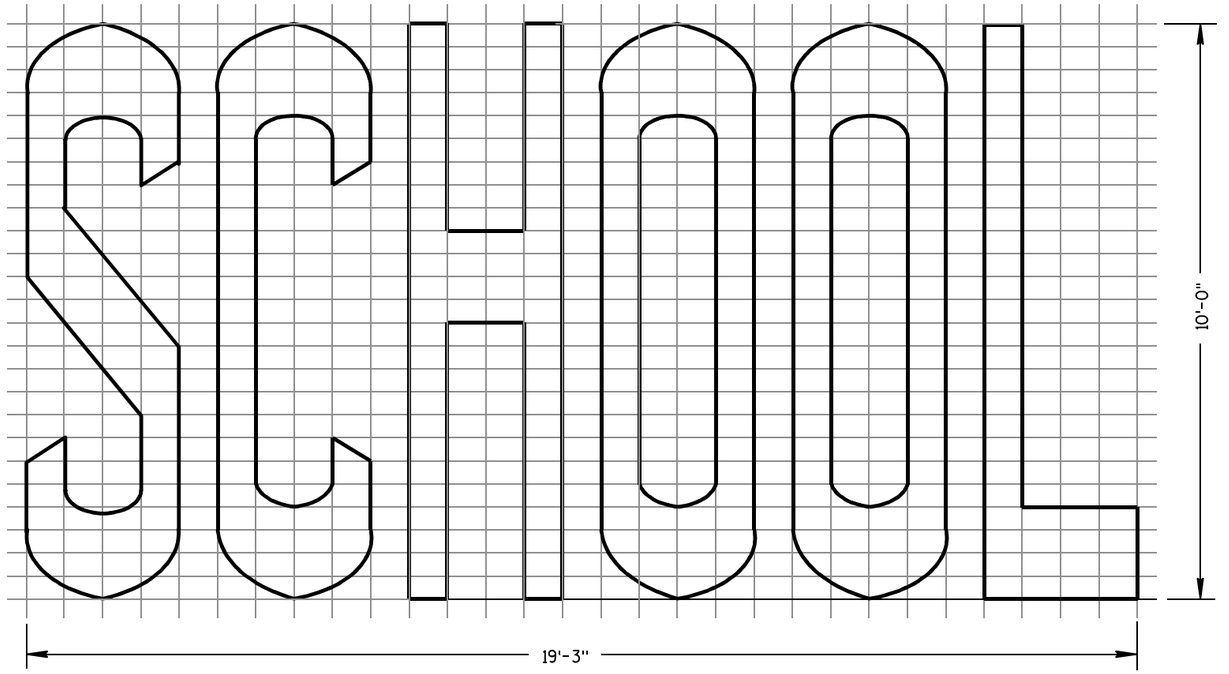
GENERAL NOTES

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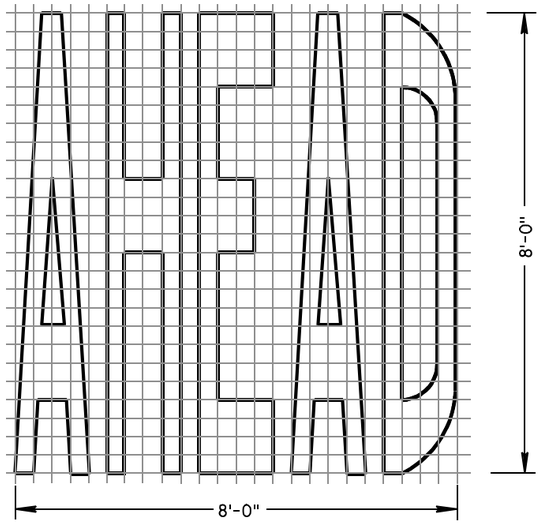
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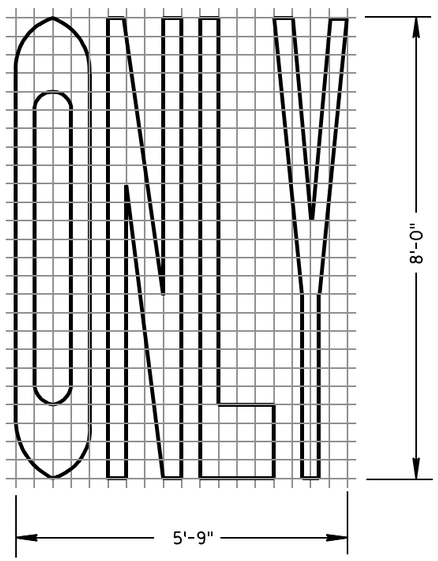


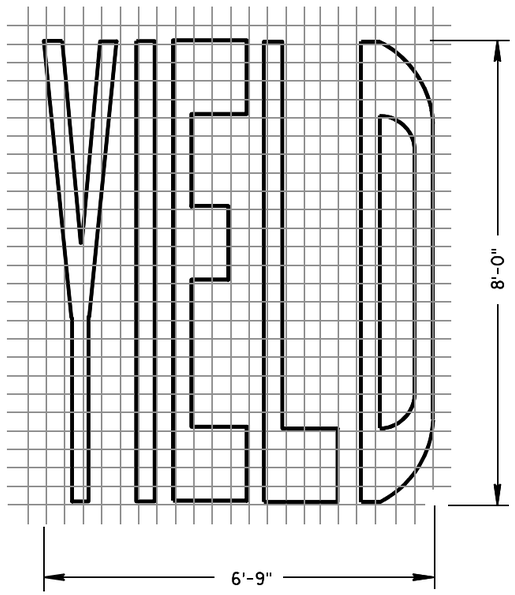


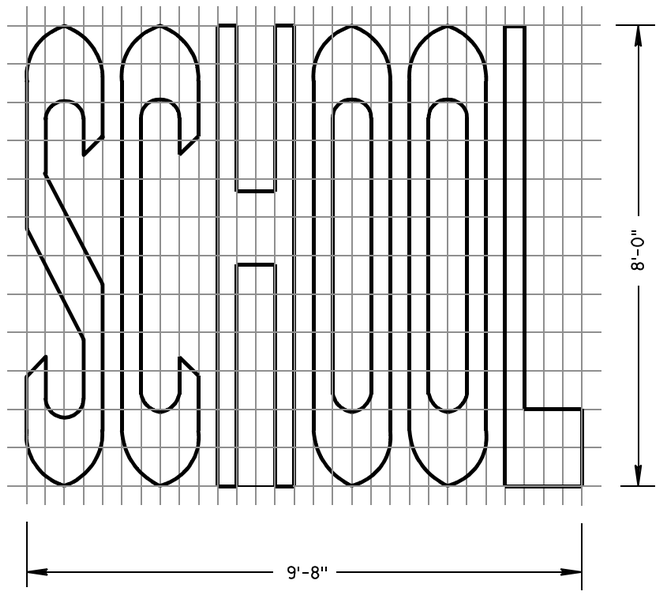


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

FHWA

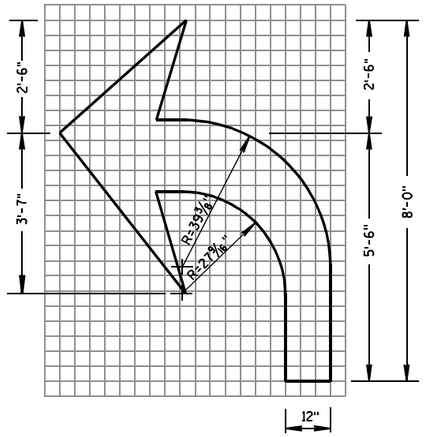
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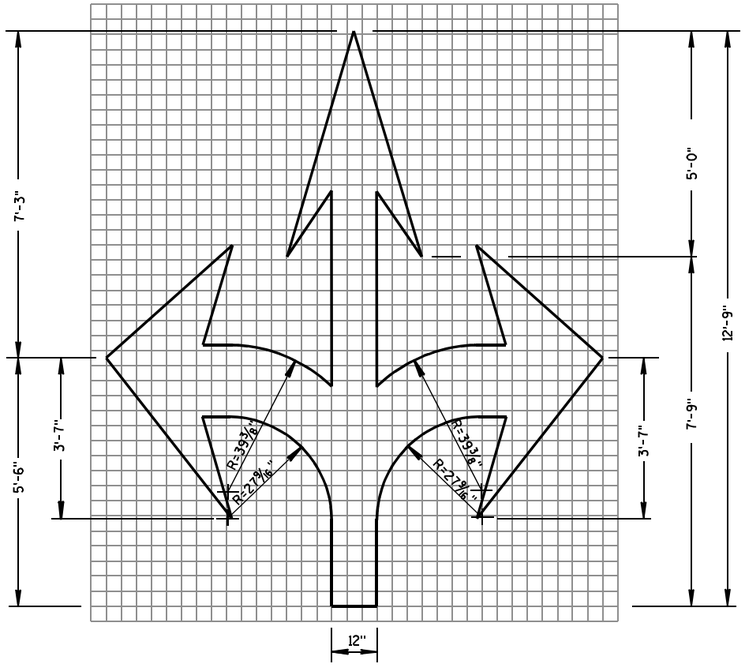
S.D.D. 15 C 7-12b

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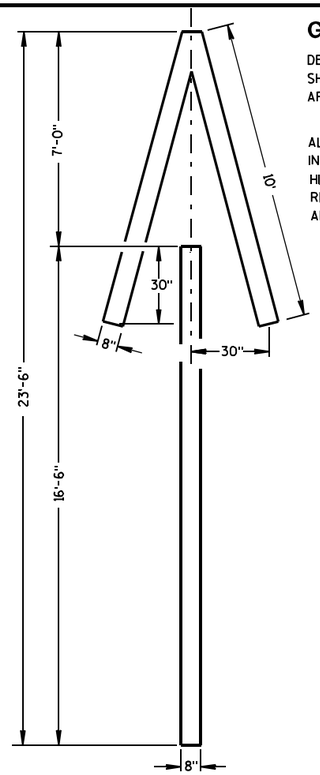
S.D.D. 15 C 7-12b



TYPE 2



TYPE 6

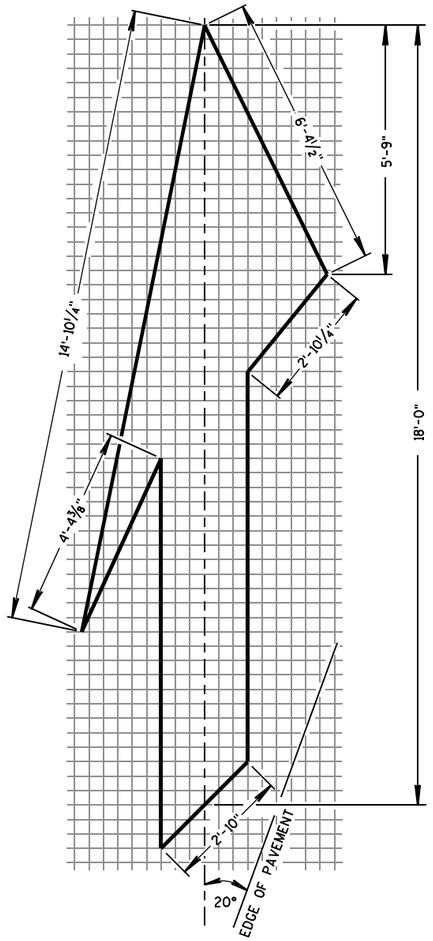


TYPE 4

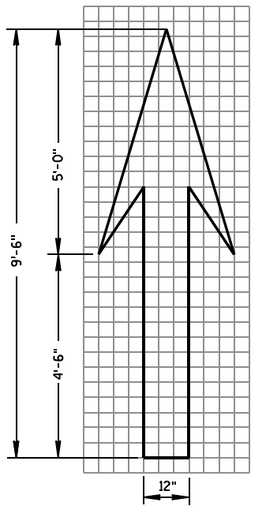
GENERAL NOTES

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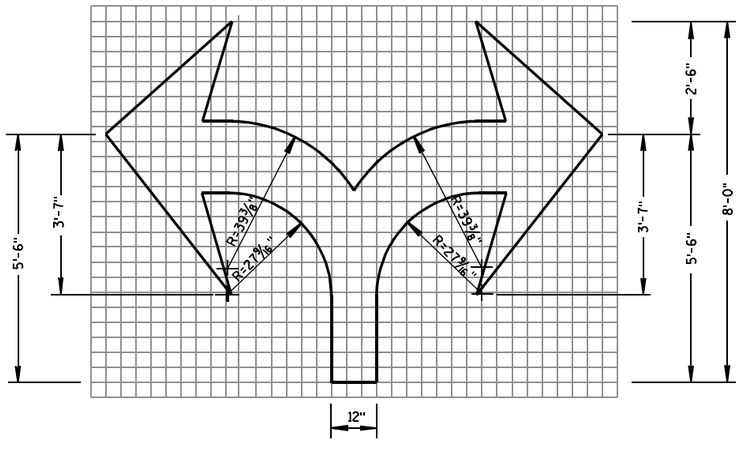
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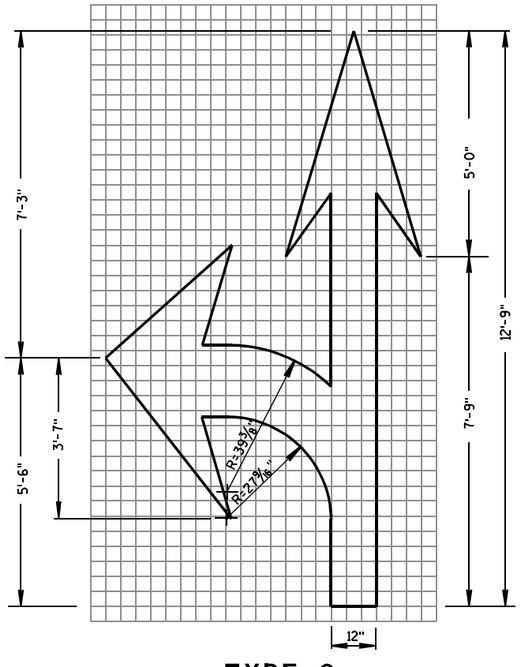
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nothdurft — STATE TRAFFIC ENGINEER

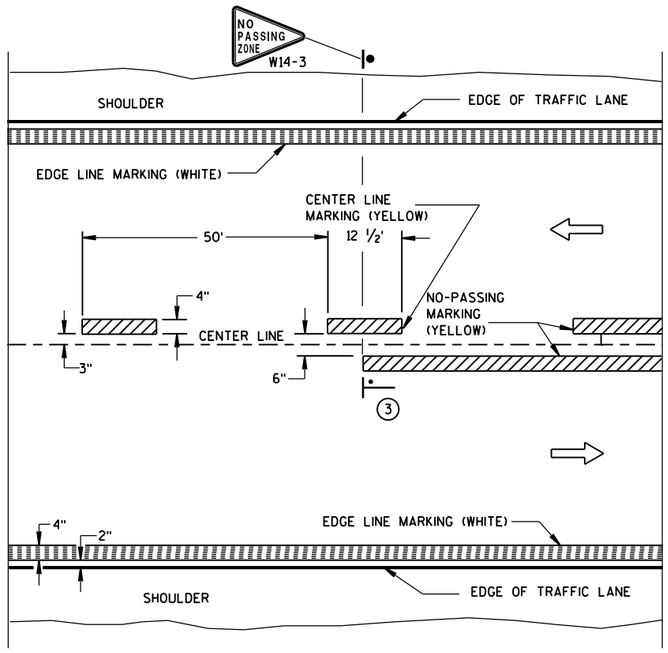
FHWA

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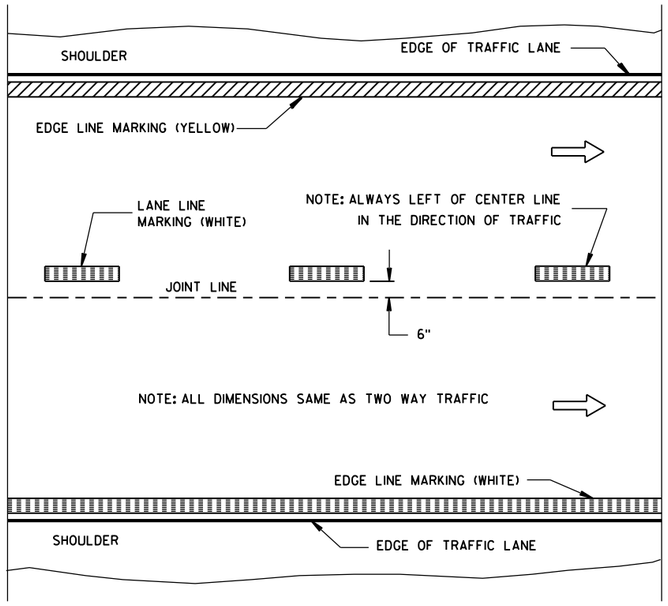
S.D.D. 15 C 7-12c

6

S.D.D. 15 C 7-12c

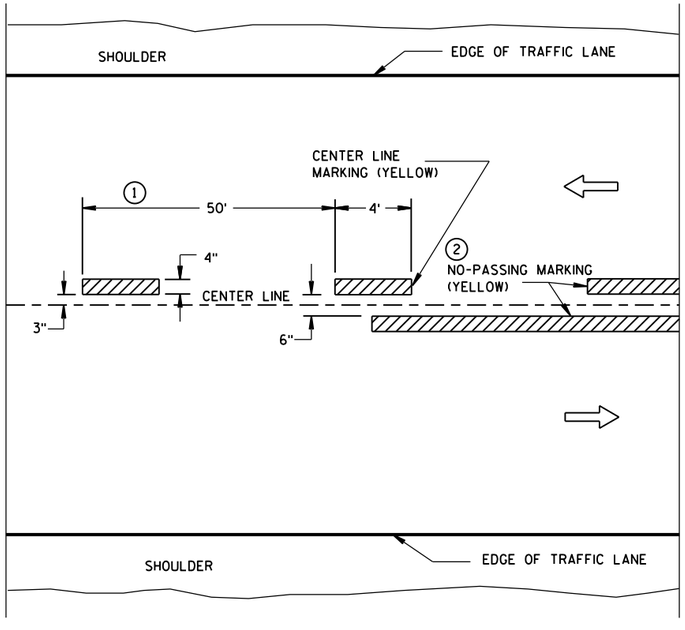


TWO WAY TRAFFIC

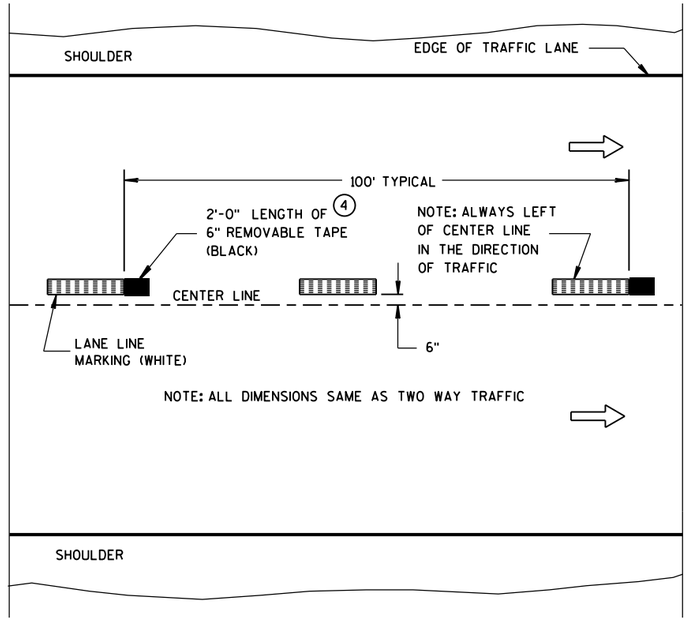


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

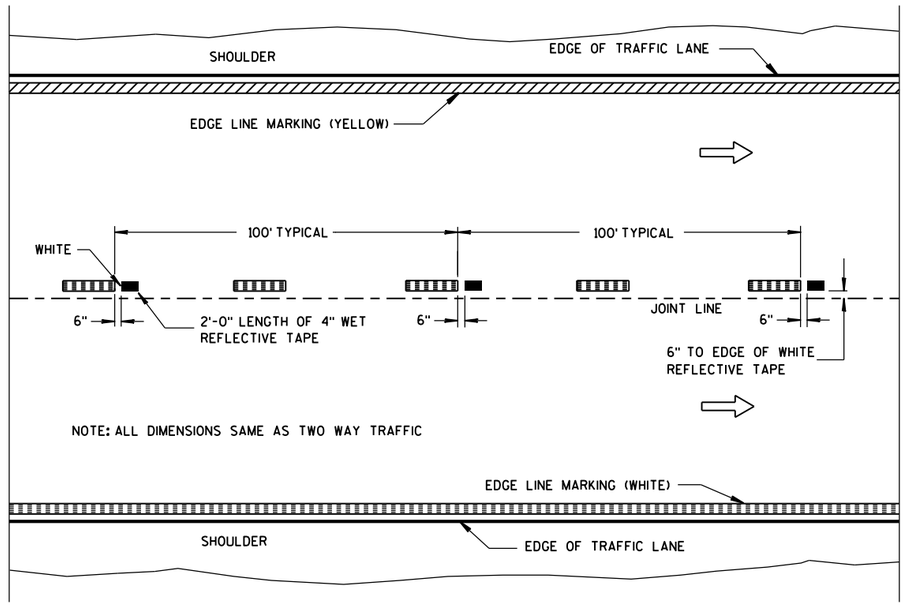
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
4. CONCRETE ONLY.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-13-2013 — DATE

/S/ Travis Feltes — STATE TRAFFIC E

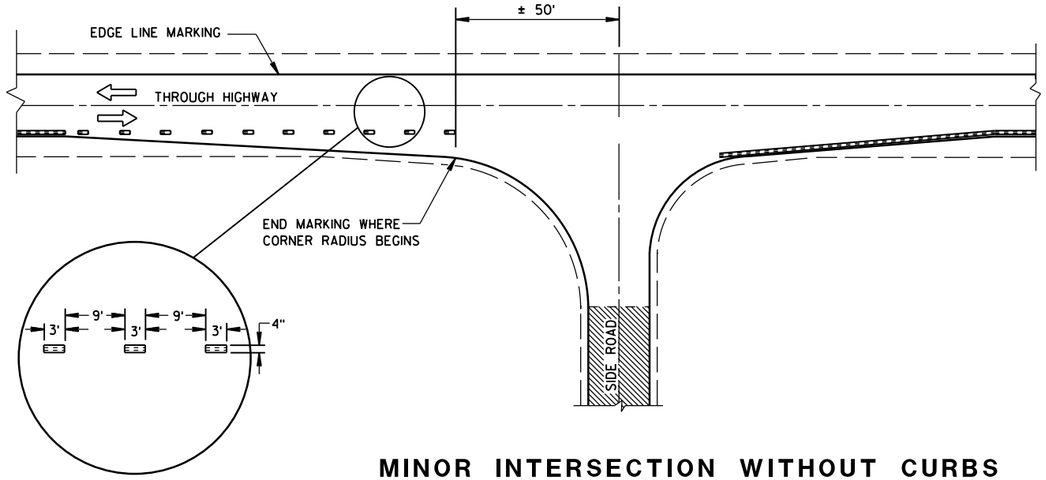
FHWA

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S.D.D. 15 C 8-16a

6

S.D.D. 15 C 8-16a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

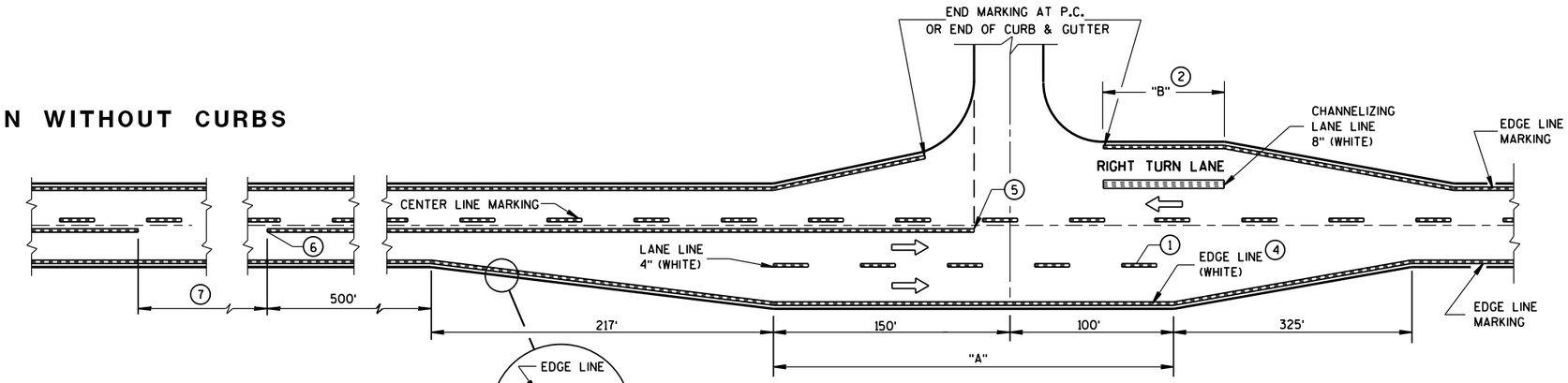
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

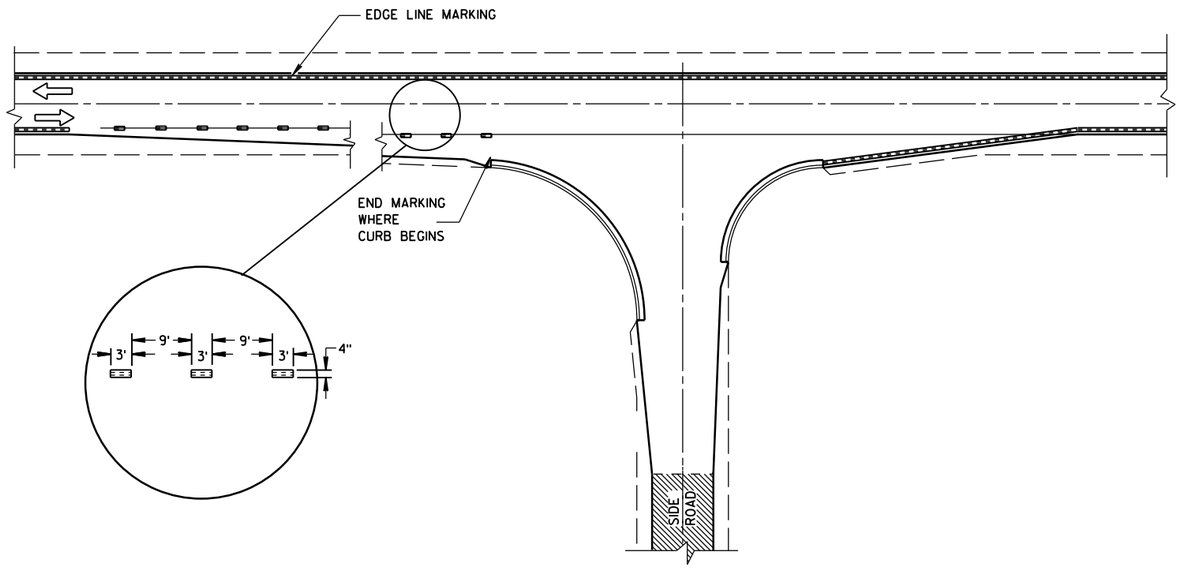
(7)

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



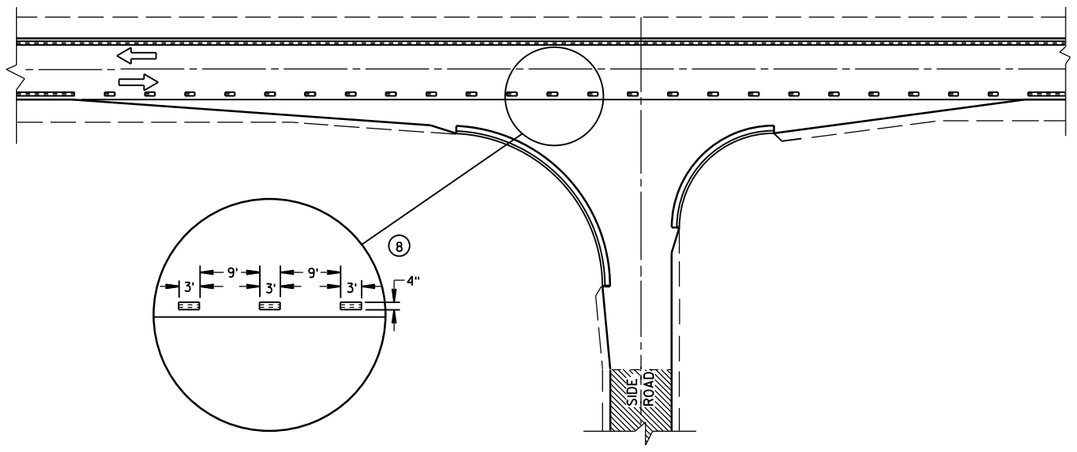
MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS

(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS

(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

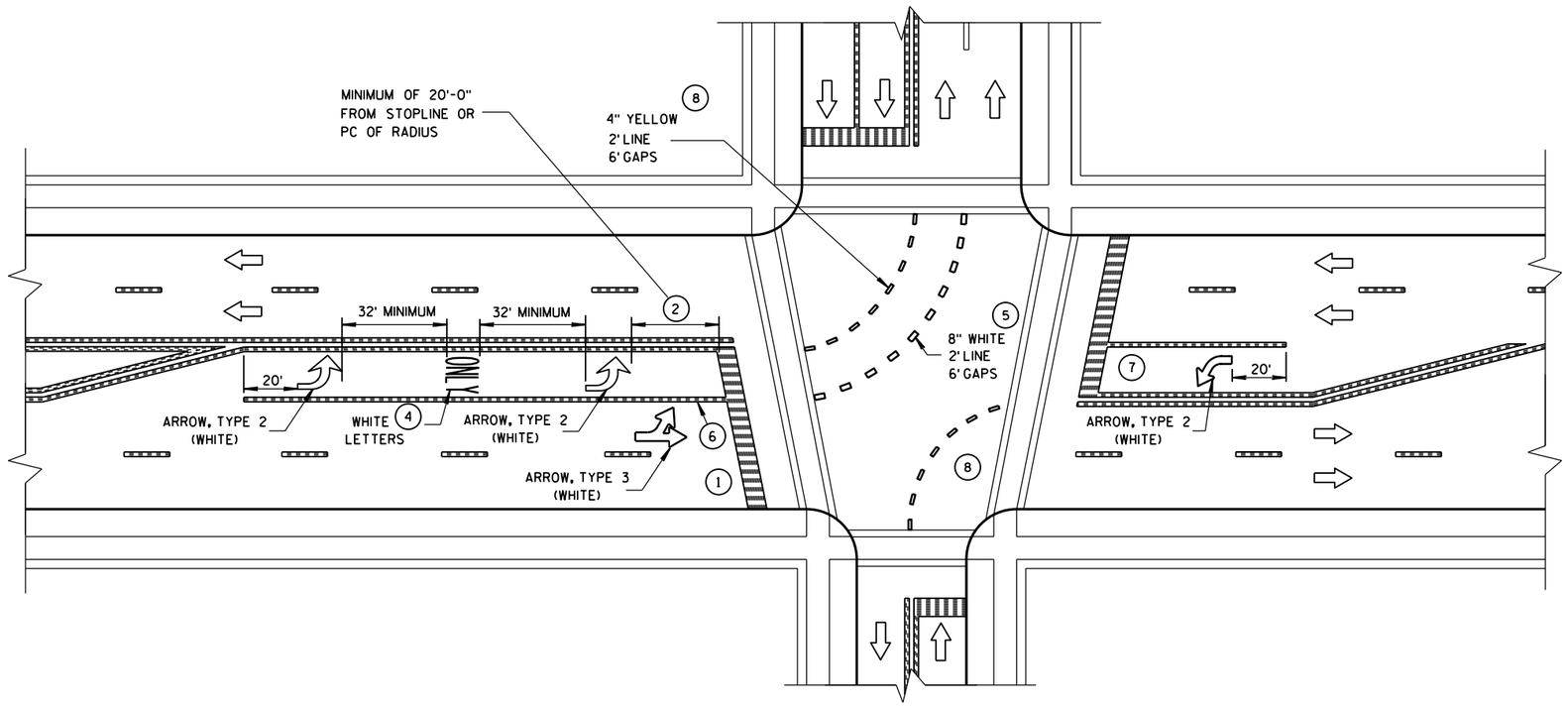
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 467

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S.D.D. 15 C 8-16b

6

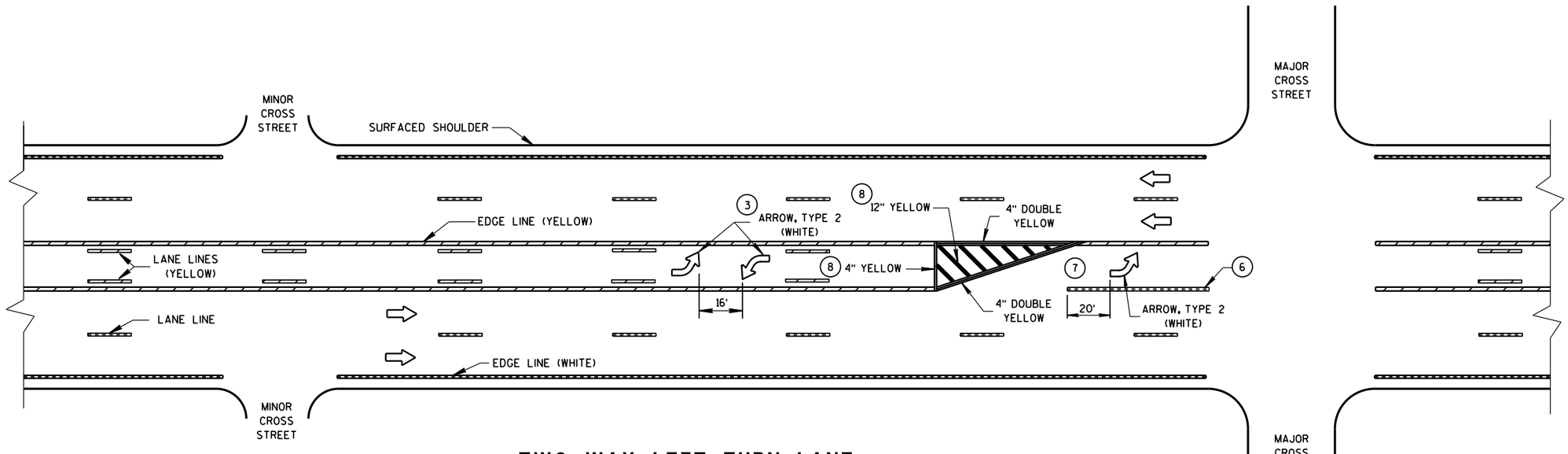
S.D.D. 15 C 8-16b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

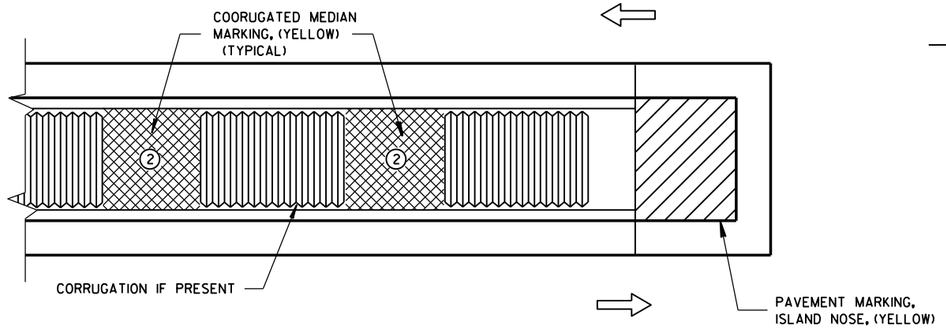
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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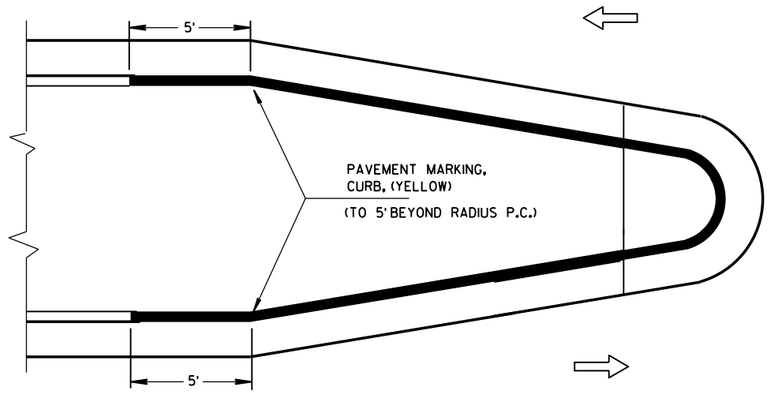
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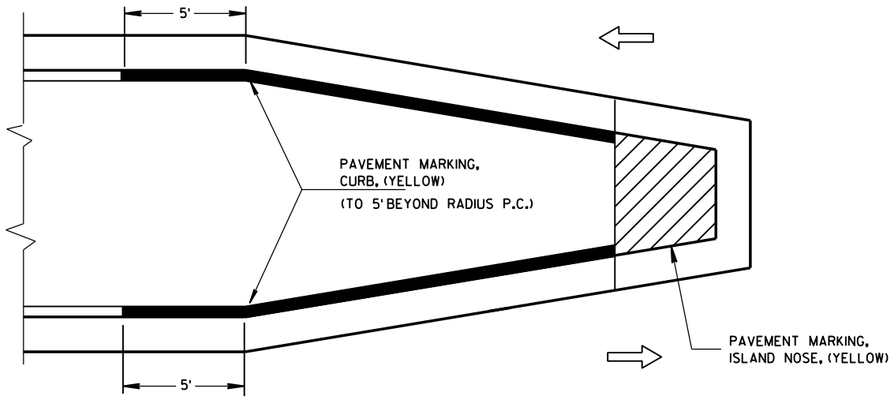
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

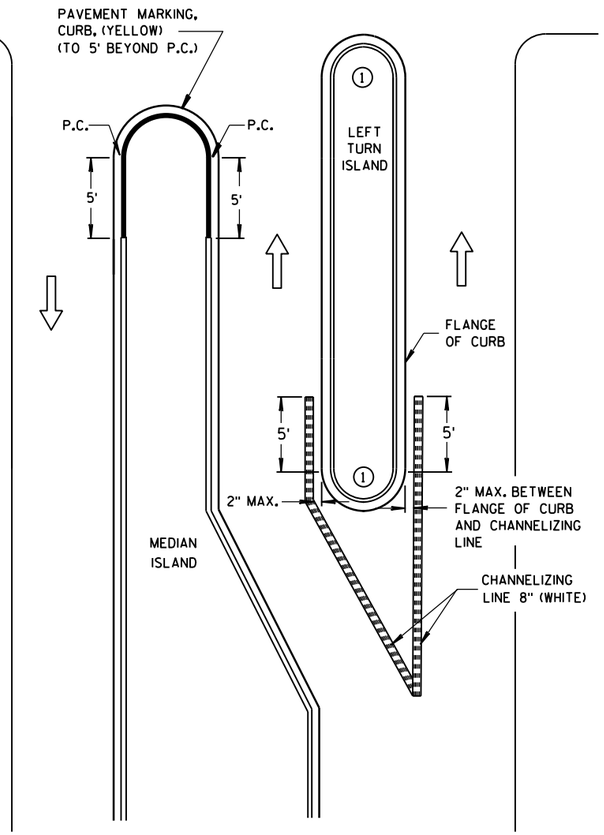


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

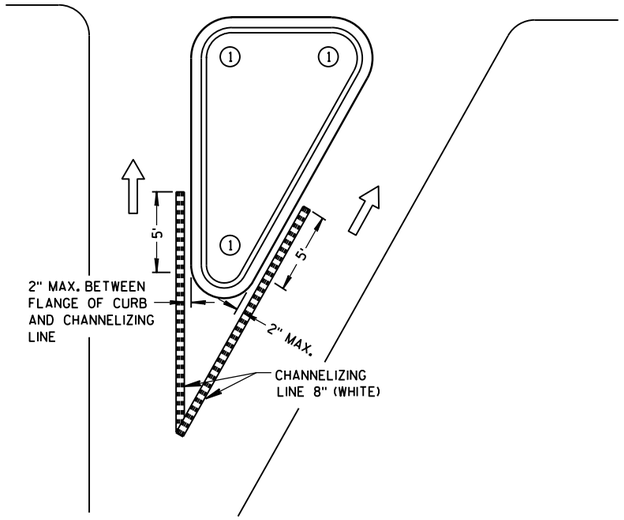


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

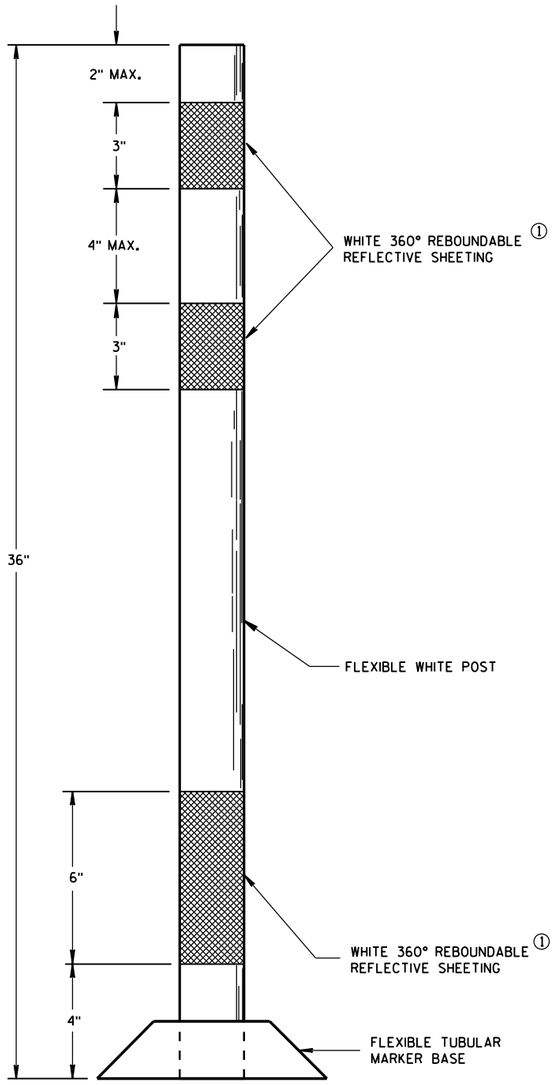
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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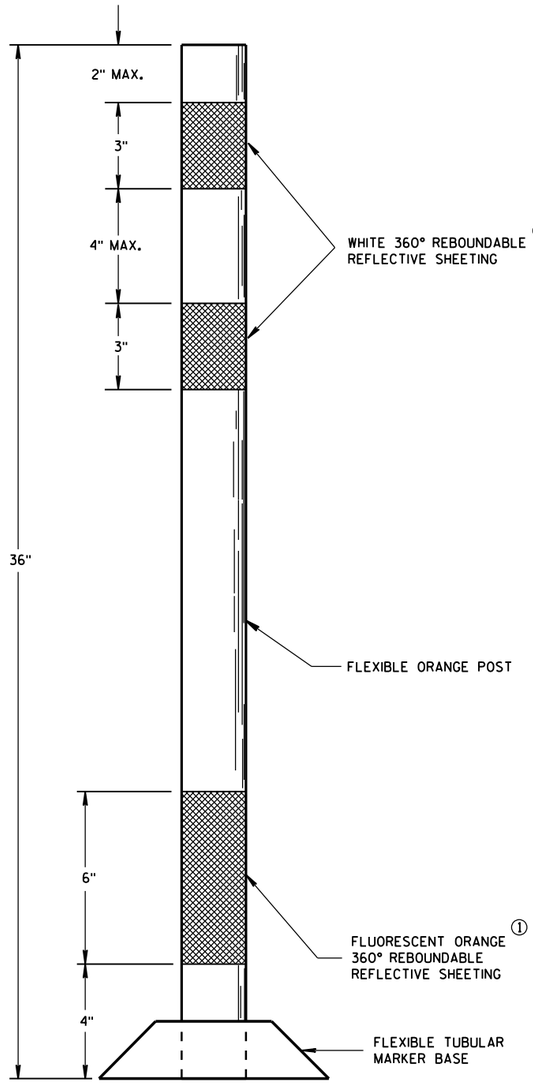
S.D.D. 15 C 8-16f

6

S.D.D. 15 C 8-16f



FLEXIBLE
TUBULAR MARKER POST
PERMANENT CROSSOVER



FLEXIBLE
TUBULAR MARKER POST
WORK ZONE

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.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-16-2015
DATE
FHWA

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON
SAFETY ENGINE

6

S.D.D. 15 C 11-6

6

S.D.D. 15 C 11-6

GENERAL NOTES

ORIENT ANCHOR BOLTS IN FOOTING AND PROVIDE ANCHOR BOLT STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR BOLTS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

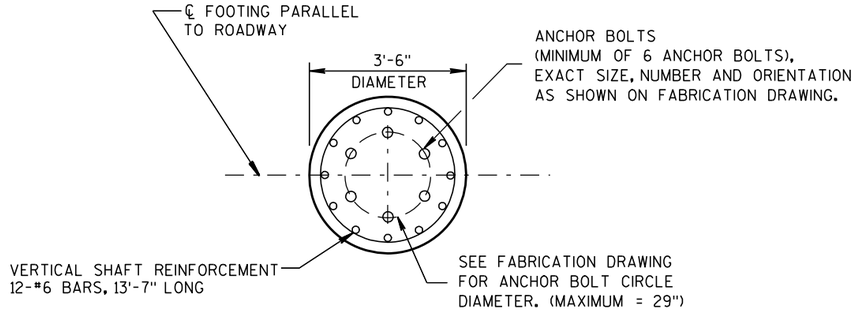
IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

THE REINFORCEMENT AND ANCHOR BOLTS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

ANY DAMAGE TO THE CONCRETE BASE DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

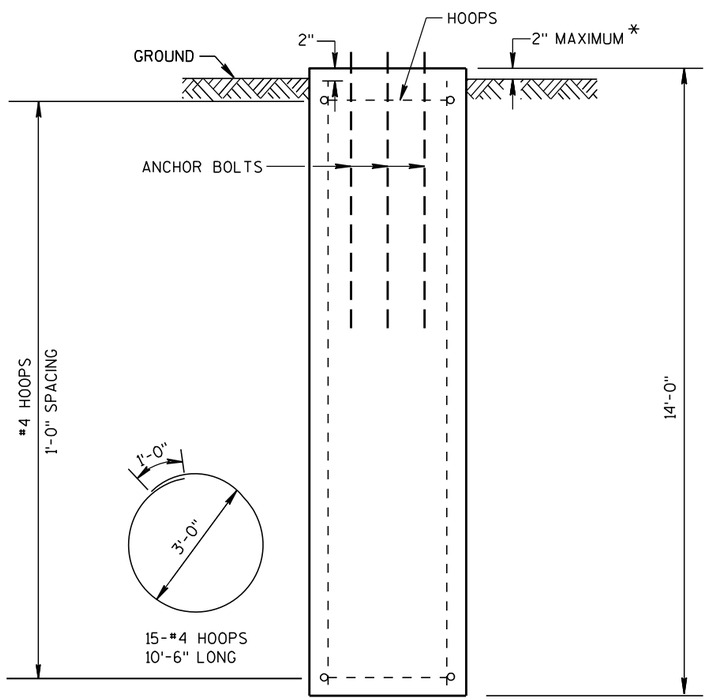
CONCRETE MASONRY ---------- fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 ------- fy=60,000 p.s.i.
ANCHOR BOLTS ---------- AASHTO M314 GRADE 55

THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



PLAN VIEW

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.



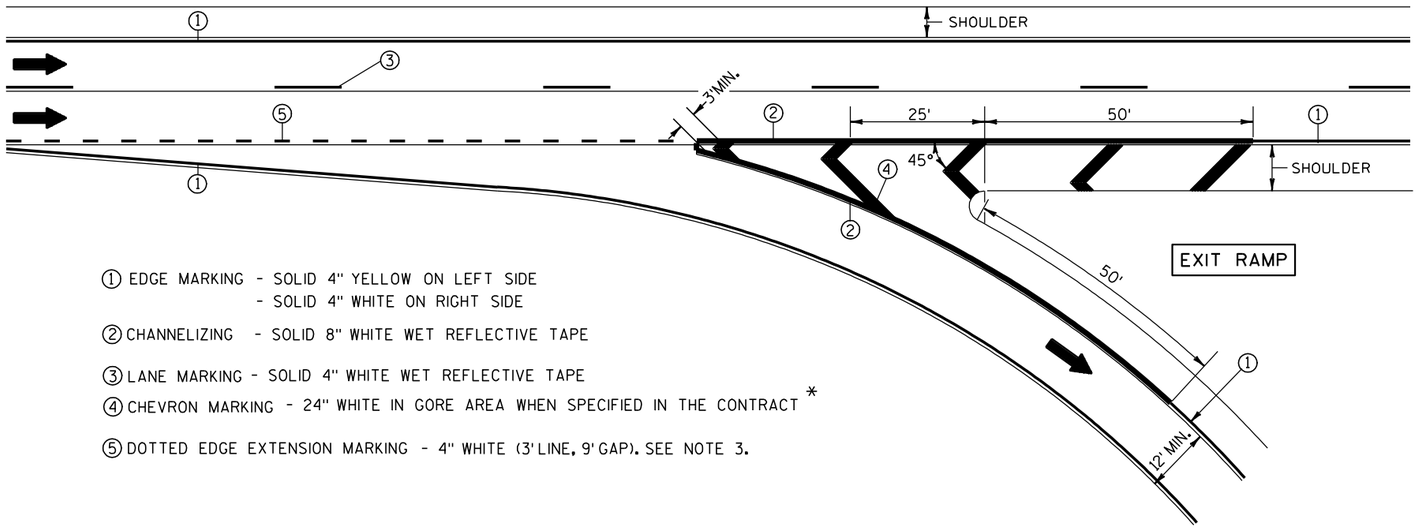
ELEVATION VIEW

CONCRETE - 5.0 C.Y. PER FOOTING
H.S. REINFORCEMENT - 350 LBS. PER FOOTING

42" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-17-09 DATE
/S/ Thomas N. Nothdurm STATE TRAFFIC ENGINEER
471 SIGN
FHWA



① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE

② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE

③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE

④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *

⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 9' GAP). SEE NOTE 3.

NOTES:

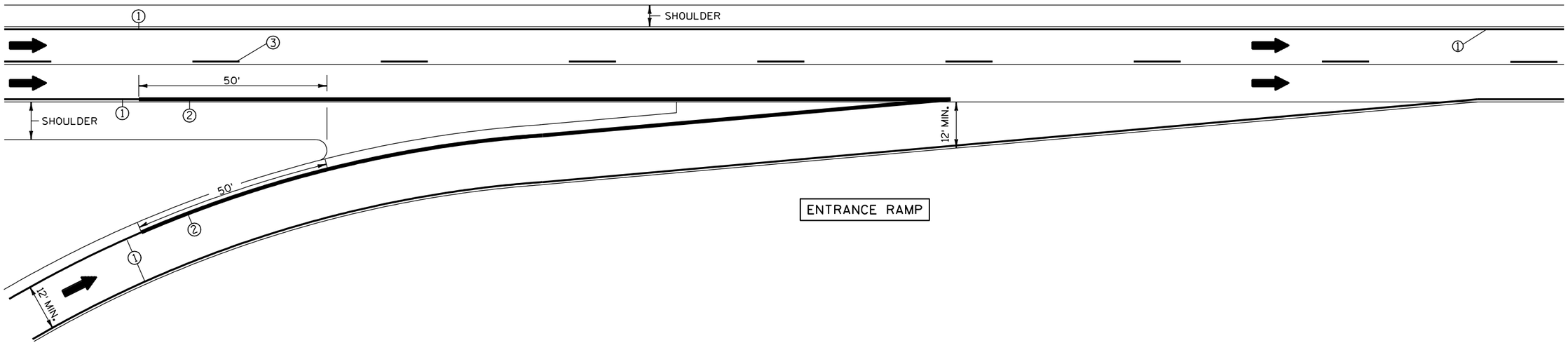
1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.

3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

4. RETRACE EXISTING DIAGONAL MARKINGS.

* REFER TO DESIGN NOTES.



6

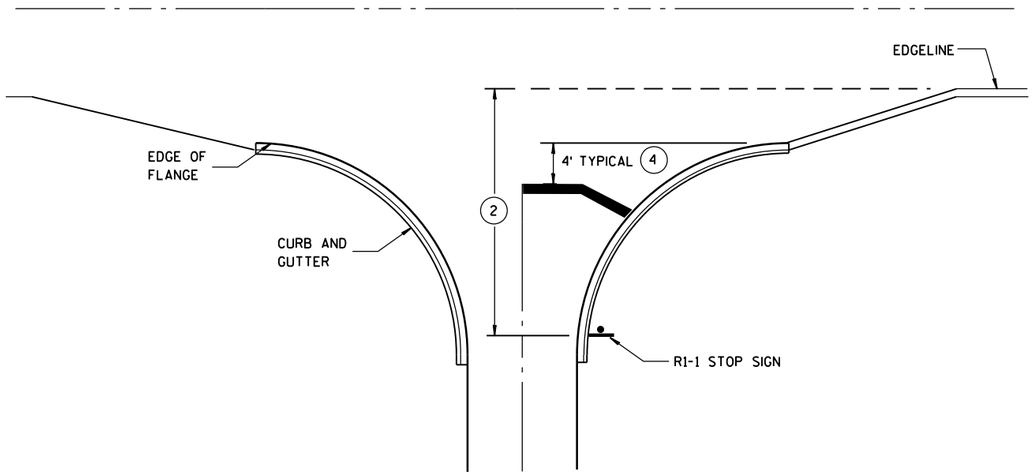
S.D.D. 15 C 31-1a

PAVEMENT MARKING
(RAMPS AND GORES)

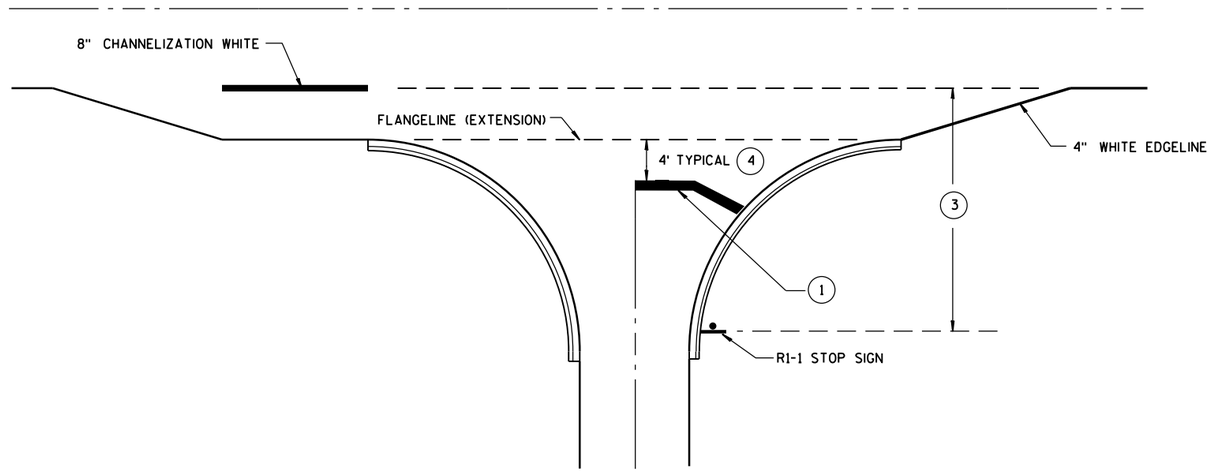
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

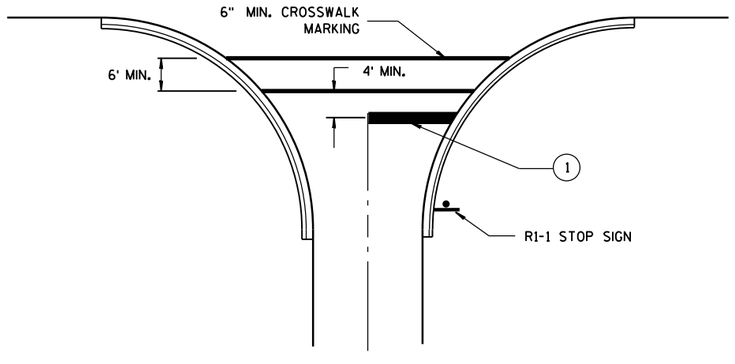
S.D.D. 15 C 31-1a



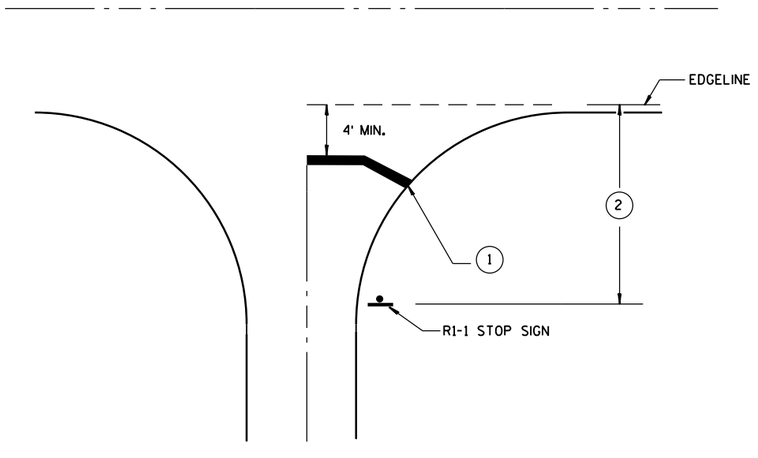
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



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

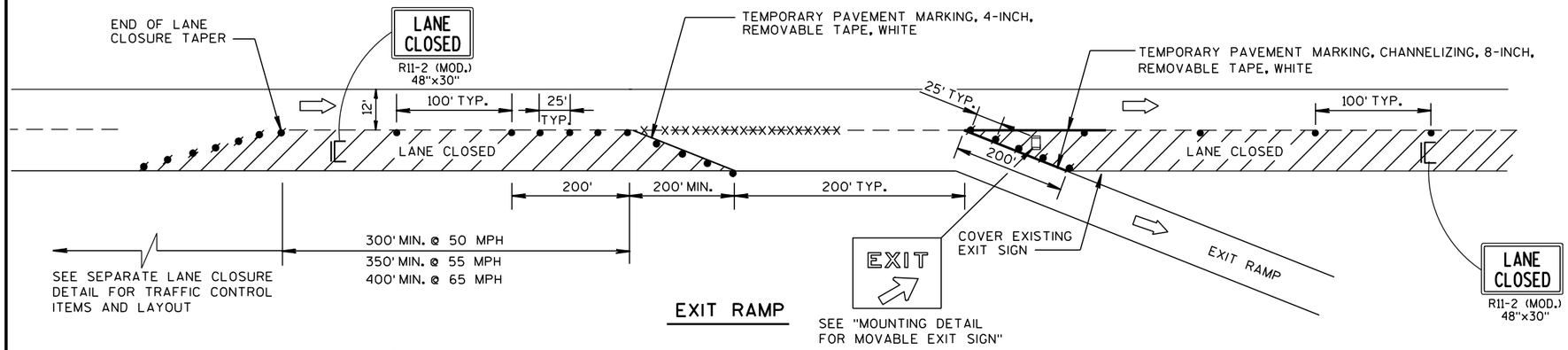
4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

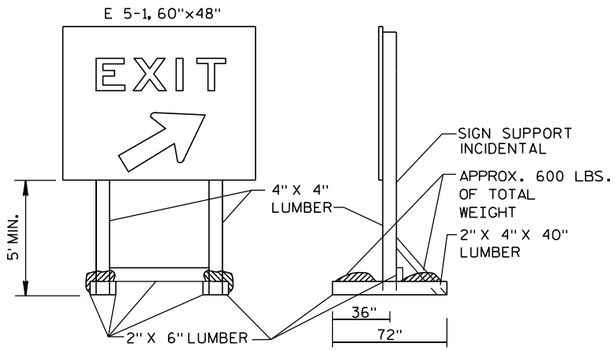
FHWA

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S.D.D. 15 C 33-1

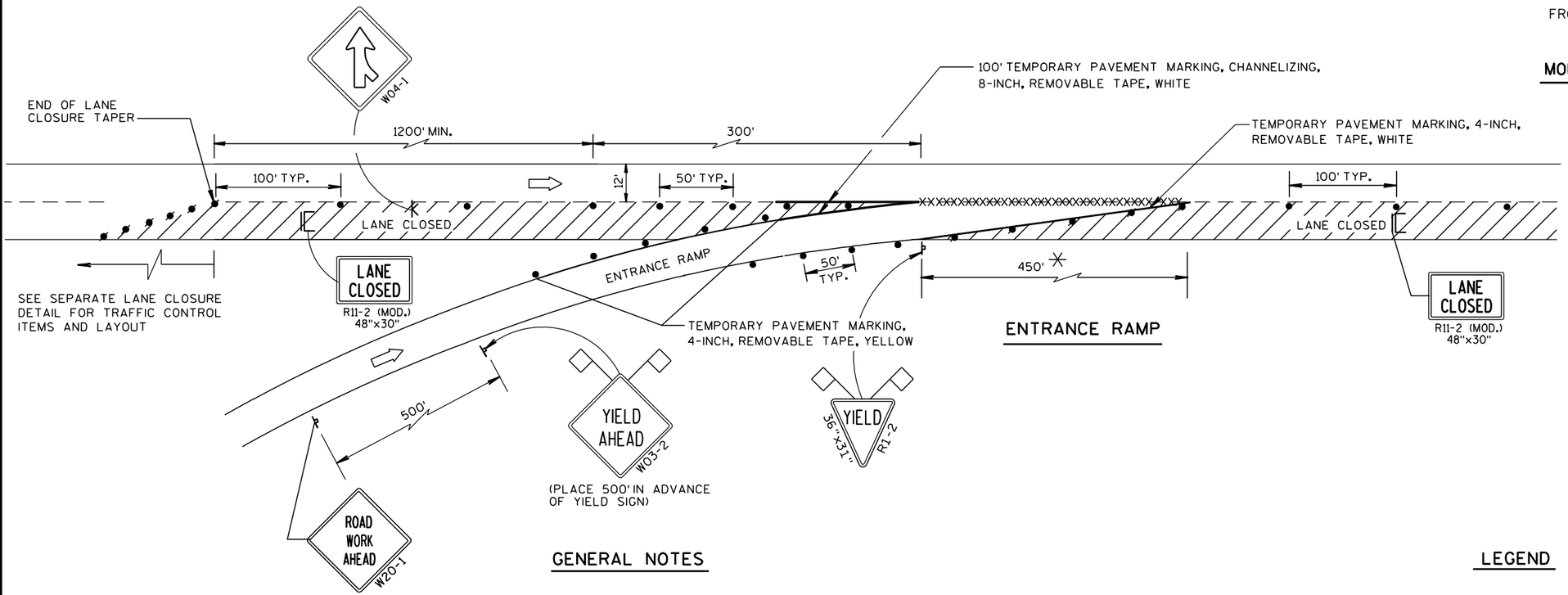


EXIT RAMP



NOTE: ALL LUMBER DIMENSIONS ARE NOMINAL

MOUNTING DETAIL FOR MOVABLE EXIT SIGN



ENTRANCE RAMP

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2 (MOD.) "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

✳ LENGTH OF OPENING MAY BE REDUCED TO 150 FEET DURING STAGING OF WORK IN IMMEDIATE AREA OF RAMP TAPER.

LEGEND

- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT
- TRAFFIC CONTROL, DRUM
- TRAFFIC CONTROL, DRUM WITH WARNING LIGHT, TYPE C (STEADY-BURN)
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE (8' EQUIVALENT) WITH SIGN
- FLAGS, 16"x16" MIN., ORANGE
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/24/2000 DATE
/S/ Chester J. [illegible] CHIEF SIGNS AND MARKINGS ENGINEER
FHWA

6
S.D.D. 15 D 15-1

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TRAFFIC CONTROL DRUM

SIGN ON PERMANENT SUPPORT

TYPE "A" WARNING LIGHT (FLASHING)

DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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.

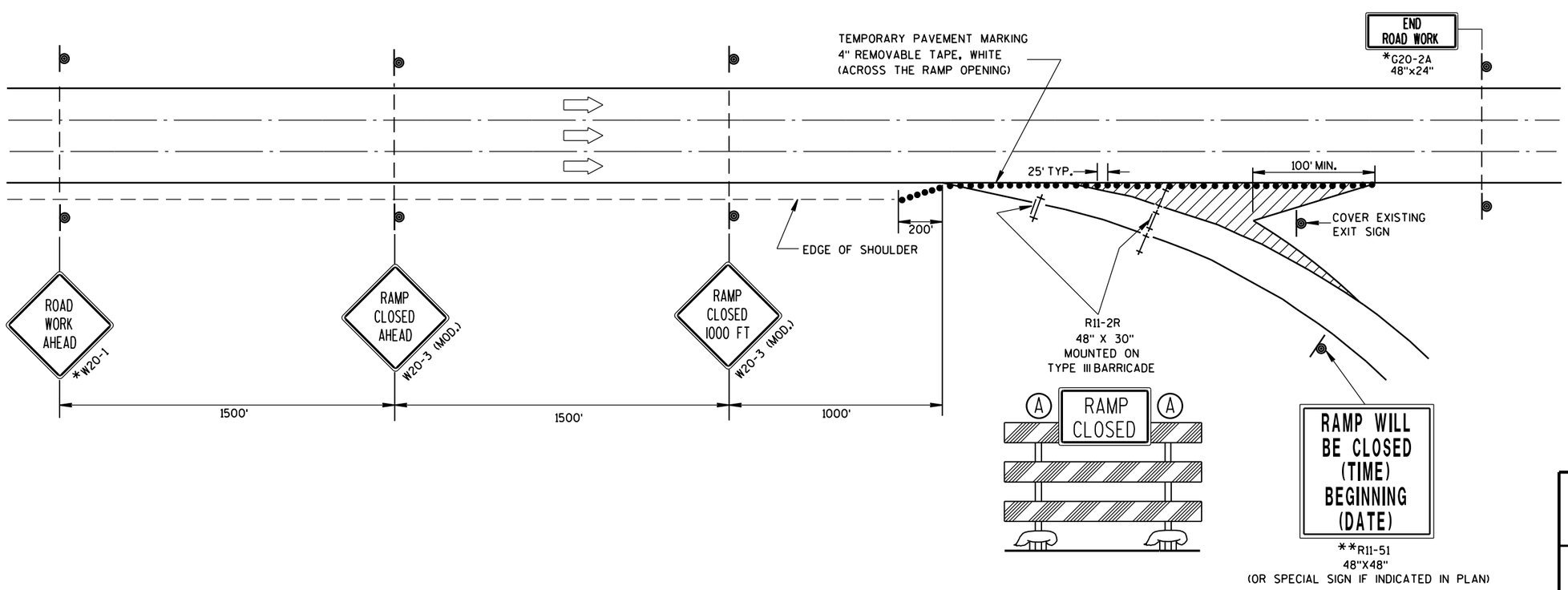
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROPOFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN THE WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

*W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP WILL BE CLOSED" SIGN 10 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



TRAFFIC CONTROL,
EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

DESIGN

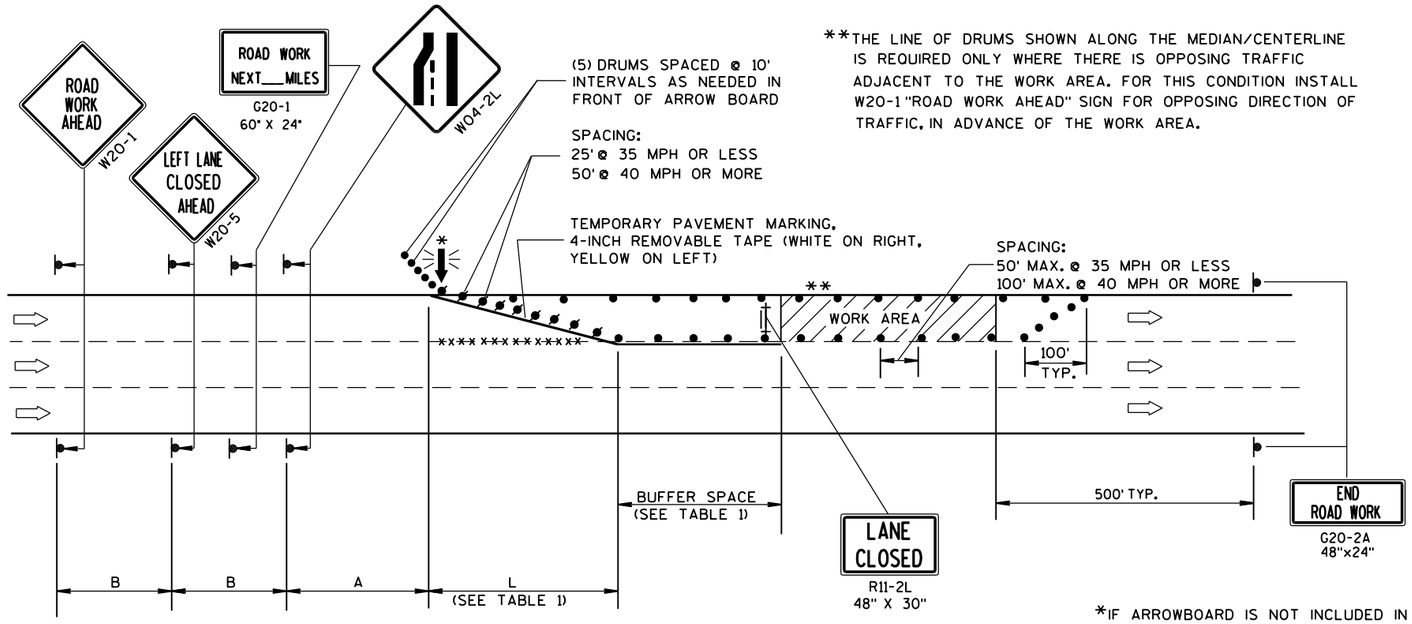
FHWA

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S.D.D. 15 D 16-2

6

S.D.D. 15 D 16-2



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

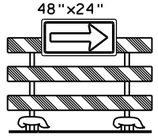


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

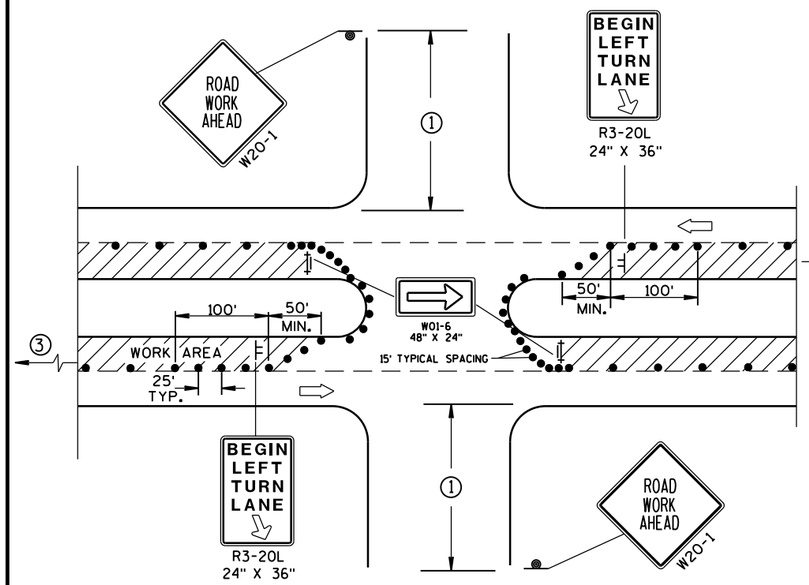
TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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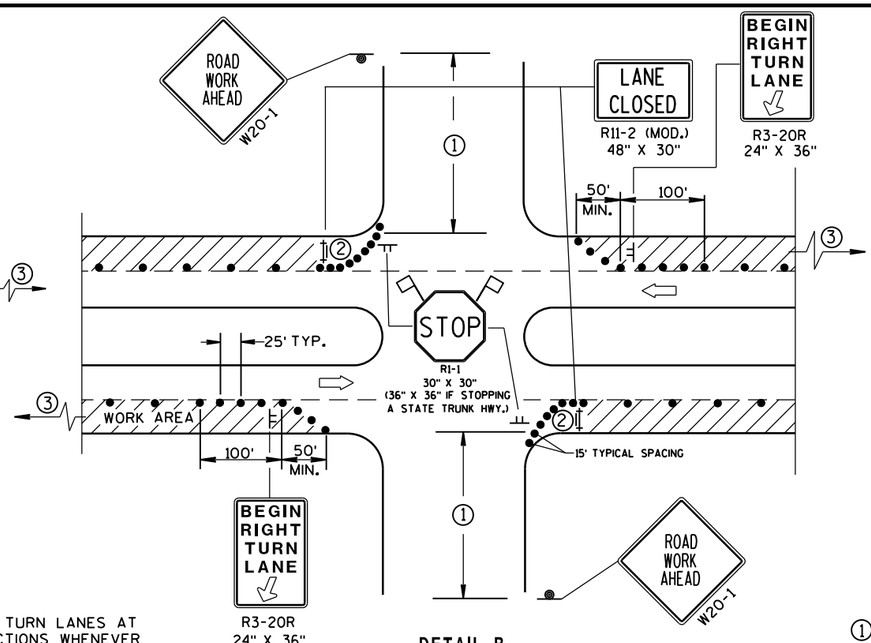
S.D.D. 15 D 20-3



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

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

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

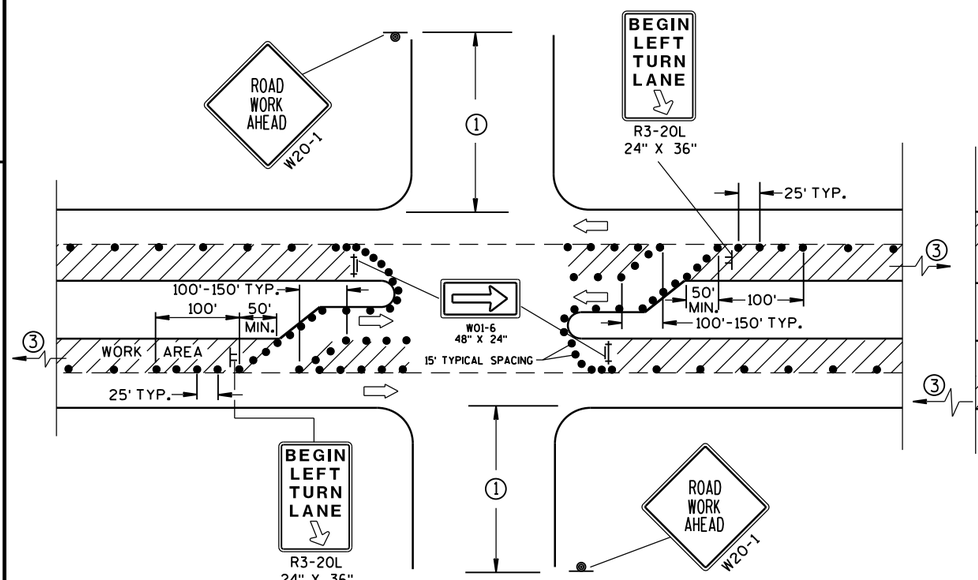
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

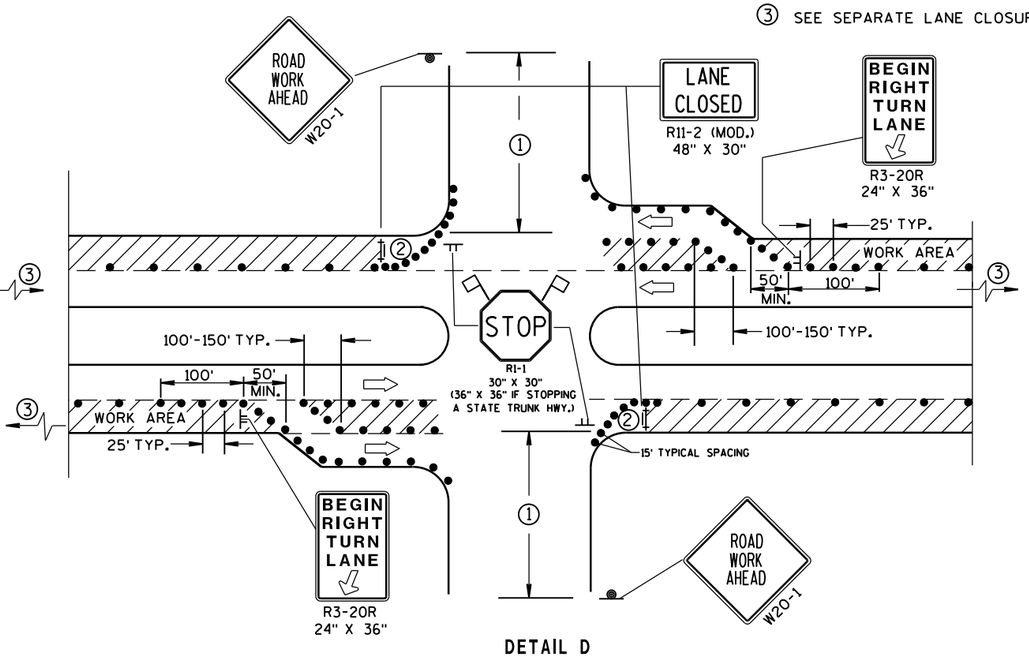
② ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

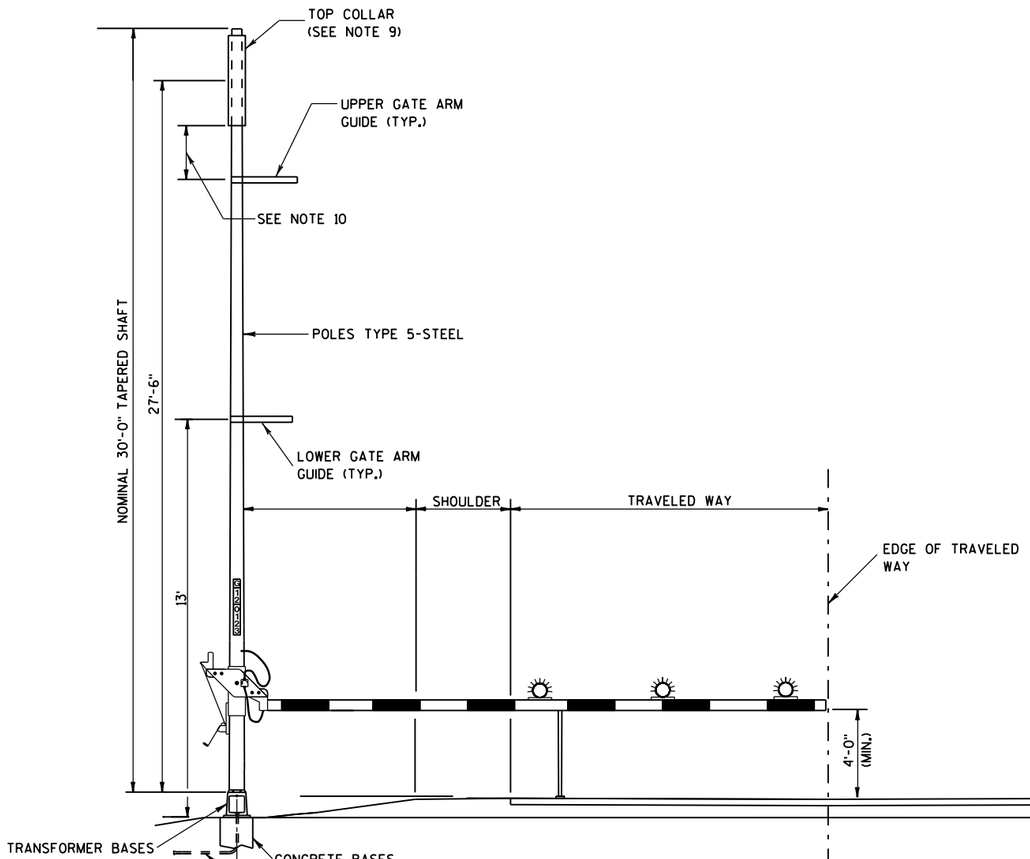
APPROVED
Nov. 2014 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 D 21-3

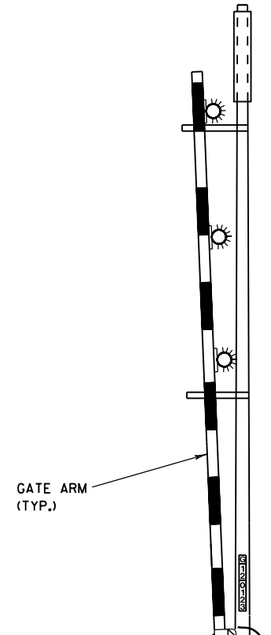
6

S.D.D. 15 D 21-3



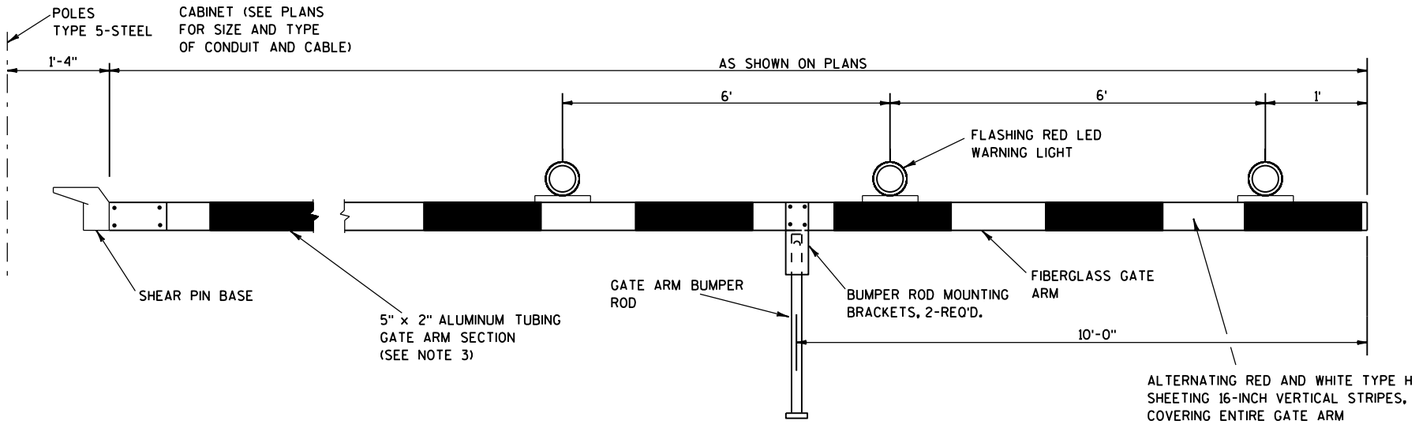
TYPICAL LOWERED POSITION

TYPICAL RAISED POSITION



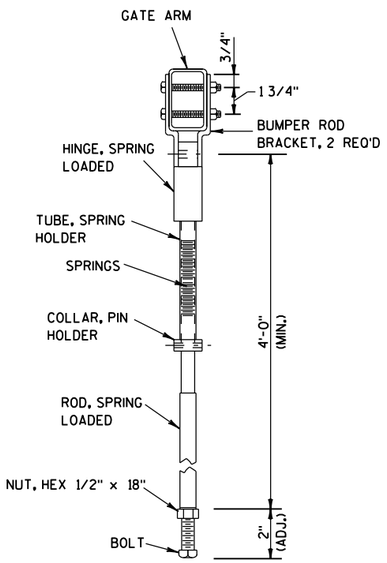
GENERAL NOTES

1. THE LOCATION OF RAMP CLOSURE GATES AND MOUNTING HEIGHT OF GATE ARM PIVOT SHALL BE VERIFIED BY THE ENGINEER.
2. HEIGHT OF GATE ARM GUIDES MAY BE VARIED AS REQUIRED FOR WARNING LIGHT CLEARANCE.
3. FIBERGLASS/ALUMINUM GATE ARM AND SHEAR PIN BASE SHALL BE SUPPLIED BY THE SAME VENDOR.
4. GATE ARM TO BE MOUNTED ON PROPOSED POLE AS INDICATED ON THE PLANS. PROPOSED POLE SHALL BE TYPE 5 POLE.
5. LOCATION OF THE CONCRETE BASE AND LENGTH OF THE GATE ARM WILL BE VERIFIED BY THE ENGINEER TO ENSURE ADEQUATE COVERAGE OF THE TRAVELED LANE.
6. GATE PIVOTS, SUPPORTS AND GUIDES, AND ALL ASSOCIATED HARDWARE SHALL BE GALVANIZED. ALL ROUGH EDGES AND BURRS SHALL BE GROUND SMOOTH PRIOR TO GALVANIZING.
7. ALL EXPOSED BOLT THREADS SHALL BE PAINTED WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A 780.
8. ANY FIELD DAMAGE TO THE GALVANIZING SHALL BE REPAIRED WITH TWO COATS OF ZINC RICH PAINT CONFORMING WITH THE REQUIREMENTS OF ASTM A 780.
9. A STANDARD LIGHTING LUMINAIRE ARM MAY BE MOUNTED TO THE TYPE 5 POLE IN LIEU OF THE TOP COLLAR.
10. UPPER GATE ARM GUIDE IS TO BE INSTALLED 6 TO 12-INCHES BELOW THE BOTTOM OF THE TOP COLLAR.

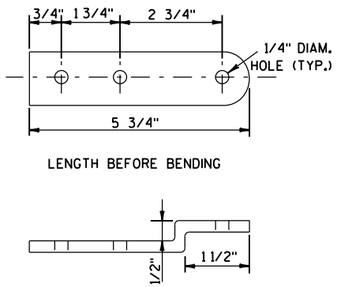


GATE DETAIL

(SOLAR POWER OPTION)



GATE ARM BUMPER ROD DETAIL



BUMPER ROD MOUNTING
BRACKET DETAIL

RAMP GATE
SOLAR POWER

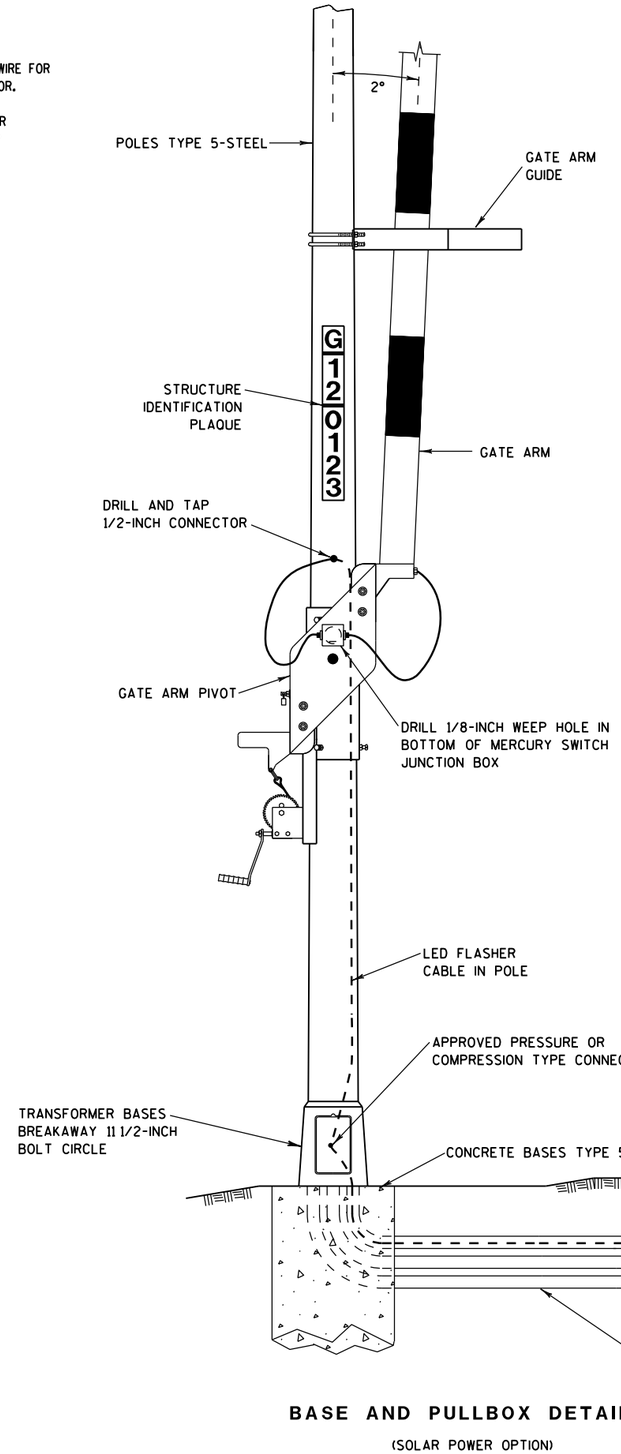
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 15 D 34-1a

WIRING NOTES

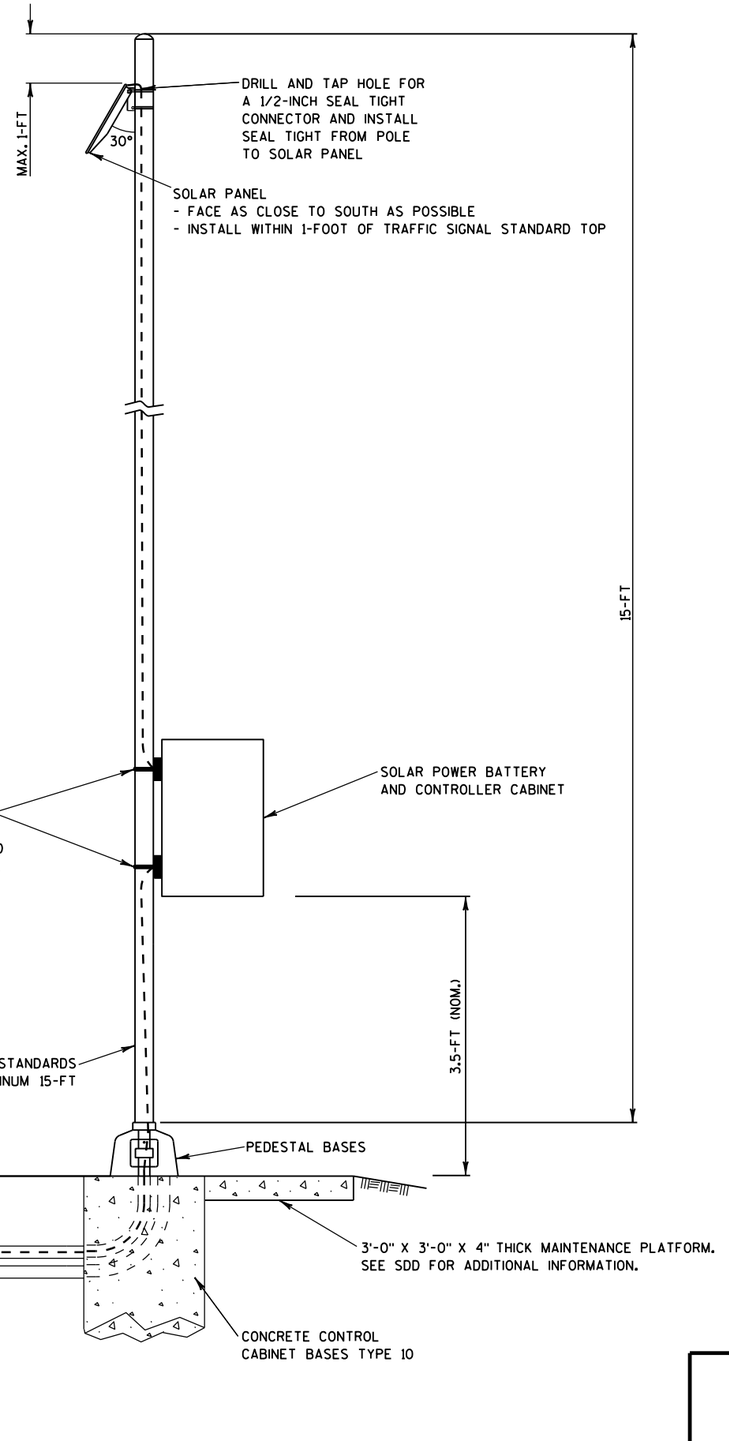
1. WIRING FROM SOLAR PANEL TO CABINET SHALL BE BLUE #10 XLP WIRE FOR POSITIVE CONDUCTOR AND WHITE #10 XLP FOR NEGATIVE CONDUCTOR.

2. WIRING FROM CABINET TO GATE ARM SHALL BE WHITE #10 XLP FOR COMMON, RED #10 XLP FOR FLASHER CIRCUIT 1, AND BLUE #10 XLP FOR FLASHER CIRCUIT 2.



BASE AND PULLBOX DETAIL

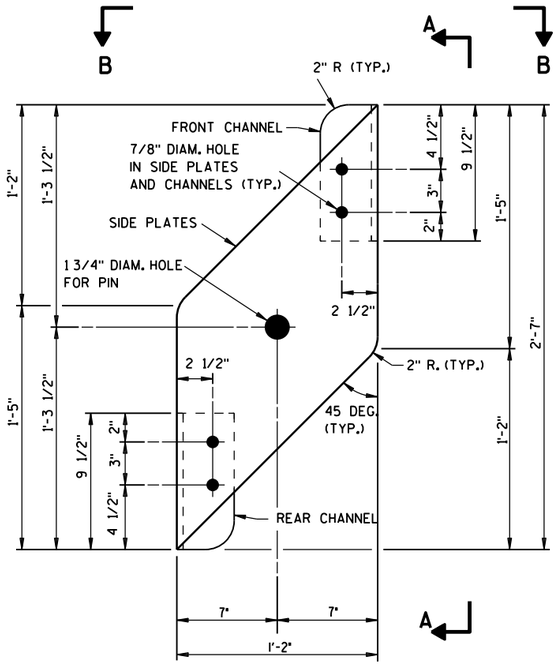
(SOLAR POWER OPTION)



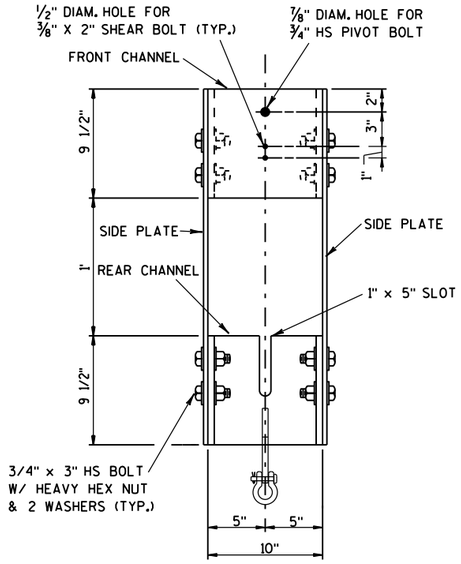
RAMP GATE
SOLAR POWER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

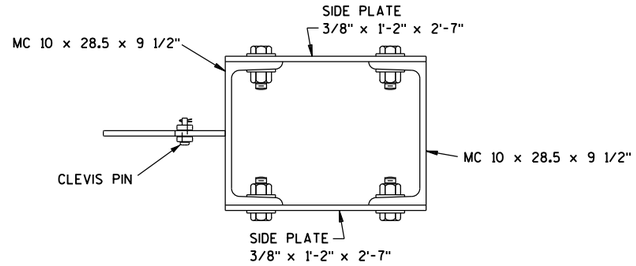
6
S.D.D. 15 D 34-1b



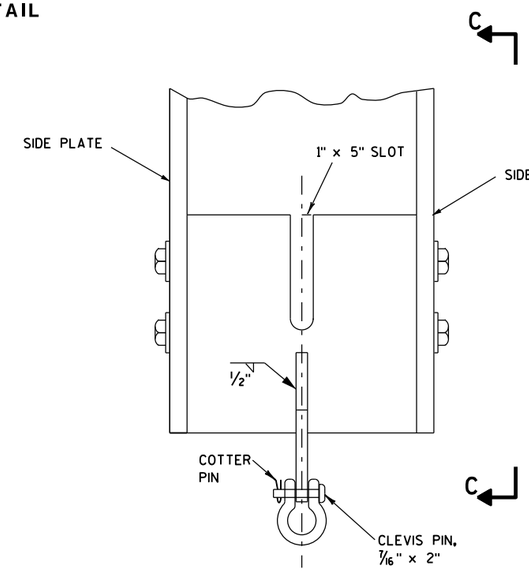
SIDE PLATE DETAIL



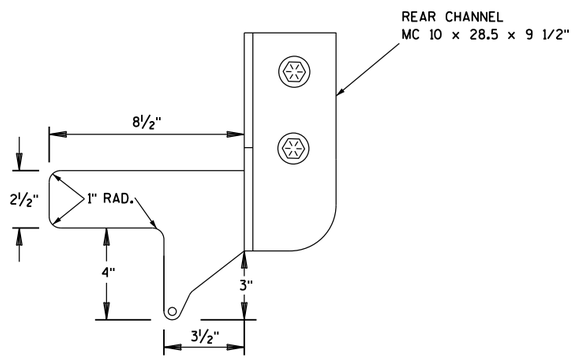
SECTION A-A



SECTION B-B



YOKE ASSEMBLY DETAIL



SECTION C-C

RAMP GATE
SOLAR POWER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 480

6

S.D.D. 15 D 34-1c

6

S.D.D. 15 D 34-1c

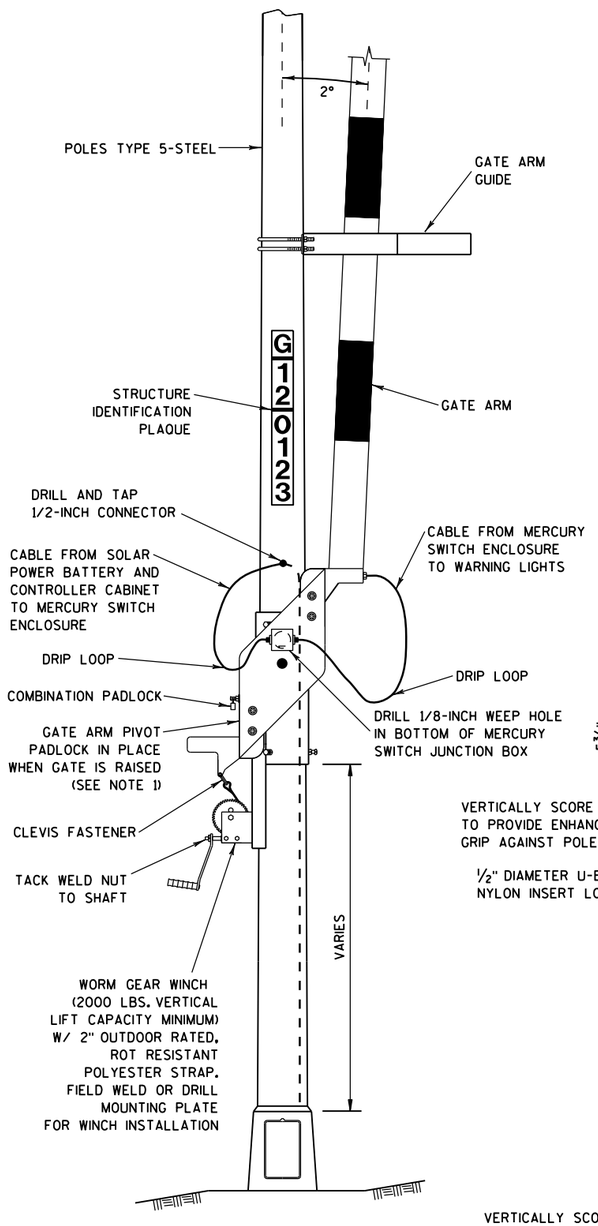
GENERAL NOTES

1. WHEN THE GATE IS FULLY RAISED, THE NUT AND WASHER SHALL BE PLACED SNUGLY AGAINST THE OUTSIDE OF THE REAR CHANNEL AND PADLOCKED IN PLACE.

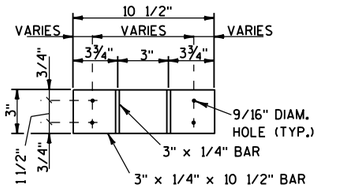
2. WHEN THE GATE IS FULLY LOWERED, THE NUT AND WASHER SHALL BE PLACED SNUGLY AGAINST THE INSIDE OF THE REAR CHANNEL AND PADLOCKED INTO PLACE.

3. ANTI-SEIZE LUBRICATING MATERIAL SHALL BE USED ON ALL BOLT THREADS BEFORE INSTALLATION.

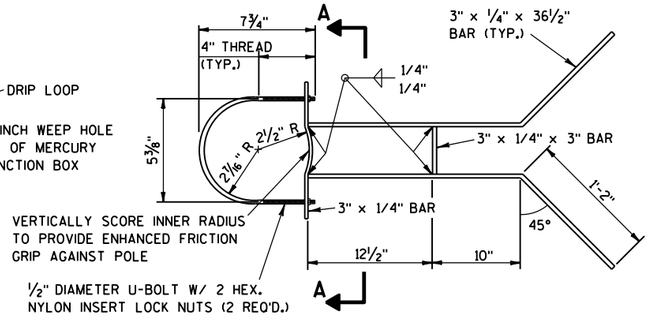
4. ALL BOLTS SHALL BE GALVANIZED AND CONFORM TO ASTM A307, GRADE A, UNLESS DESIGNATED AS HS (HIGH STRENGTH), WHICH SHALL CONFORM TO ASTM A325. BOLTS OF 1/2" NOMINAL DIAMTER OR LESS MAY BE STAINLESS STEEL.



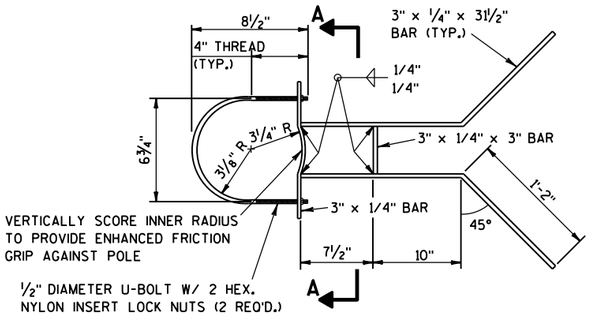
GATE PIVOT ASSEMBLY



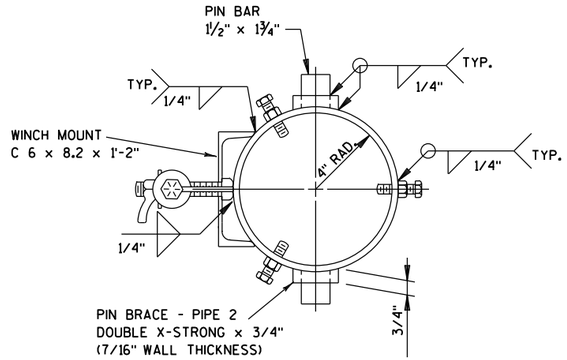
SECTION A-A
U-BOLTS NOT SHOWN



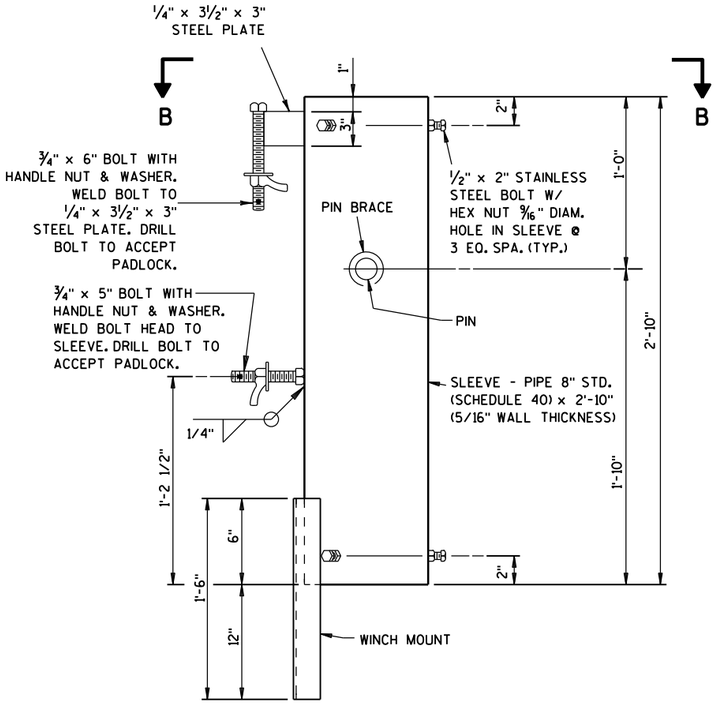
UPPER GATE ARM GUIDE DETAIL



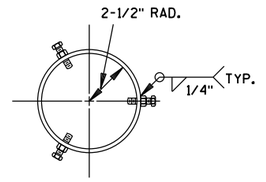
LOWER GATE ARM GUIDE DETAIL



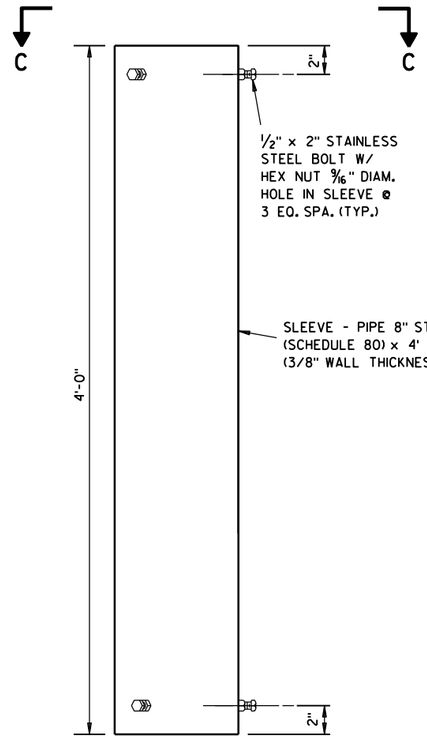
SECTION B-B



PIVOT SLEEVE DETAIL



SECTION C-C



TOP COLLAR

RAMP GATE
SOLAR POWER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

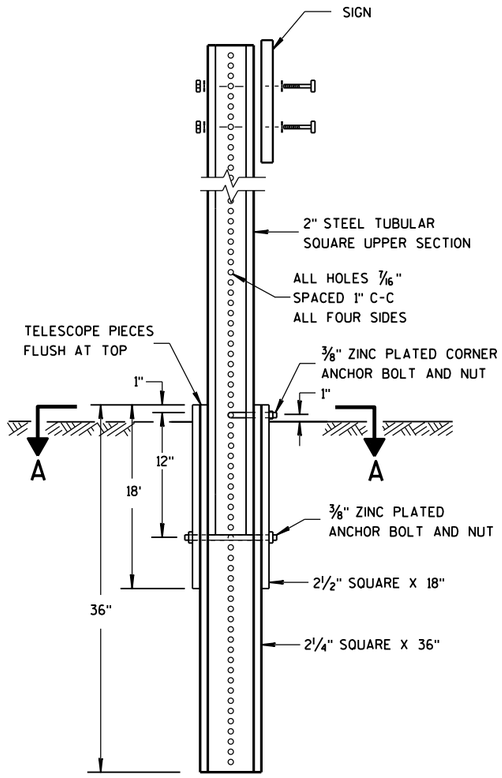
APPROVED
4-30-2013
DATE
/S/ Bill Wondrachek
STATE TRAFFIC I
MANAGEMENT EN
FHWA

6

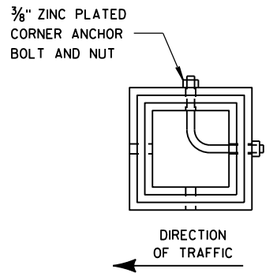
S.D.D. 15 D 34-1d

6

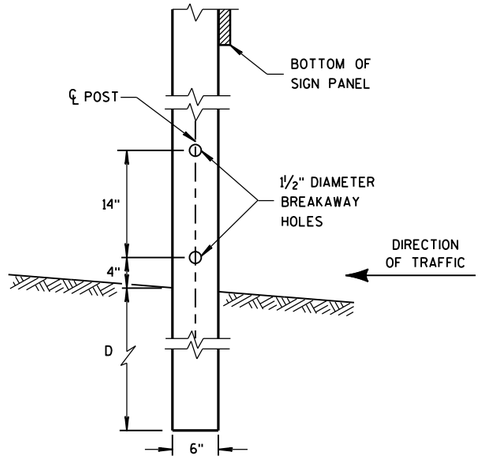
S.D.D. 15 D 34-1d



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



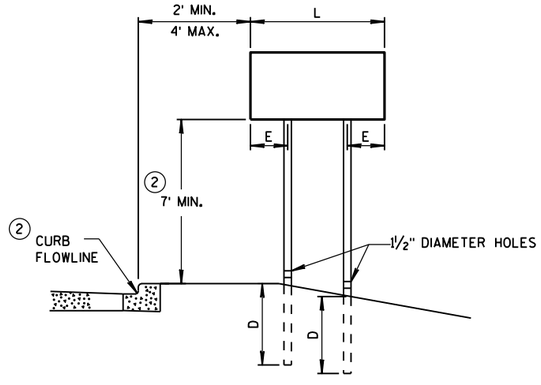
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

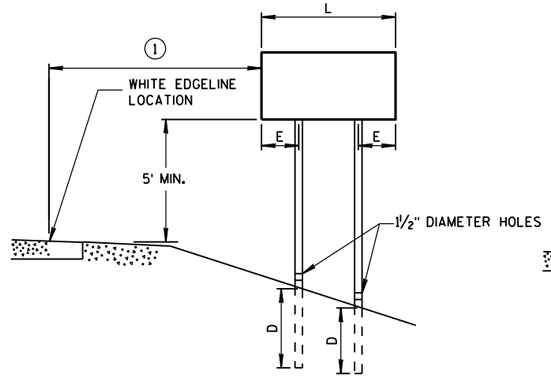
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

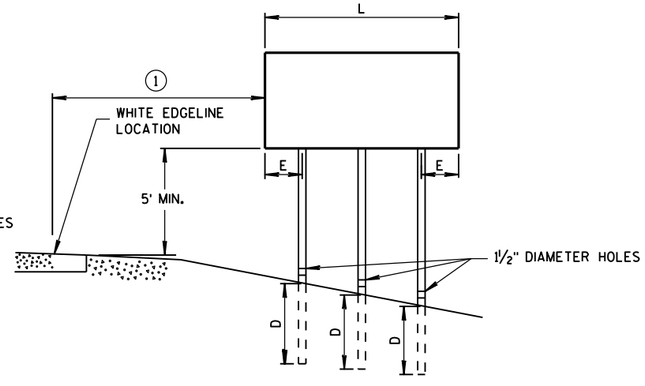
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL 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).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

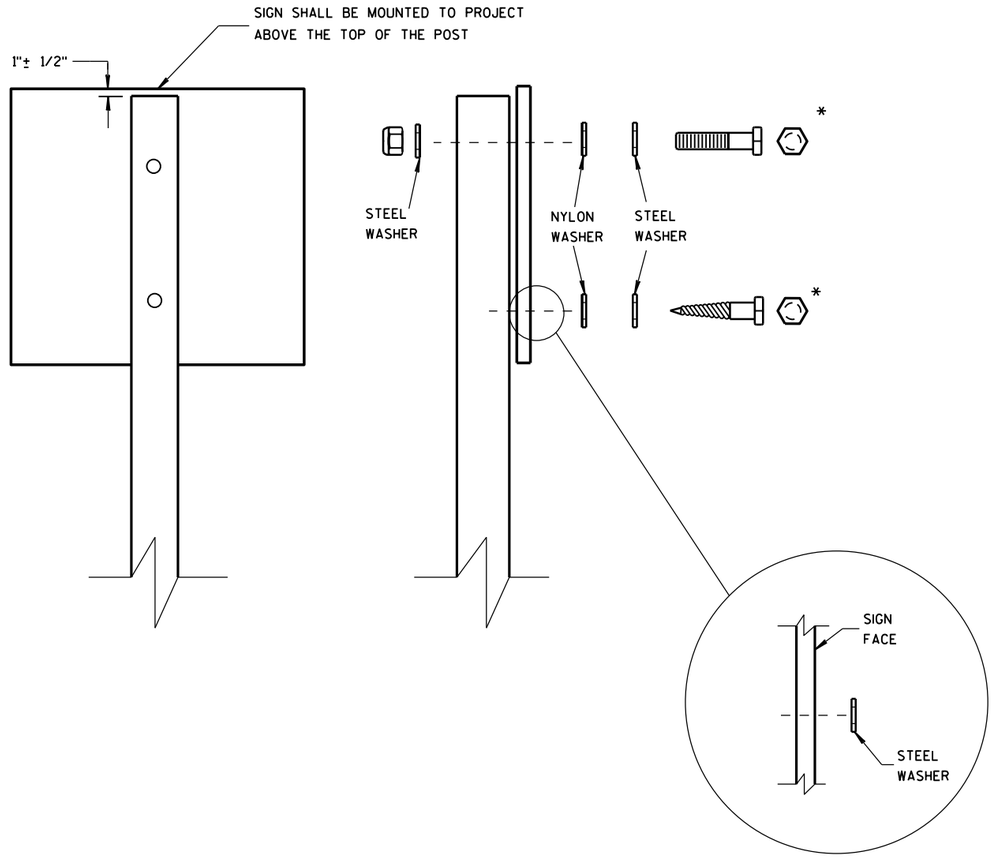
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPO

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S.D.D. 15 D 38-1a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

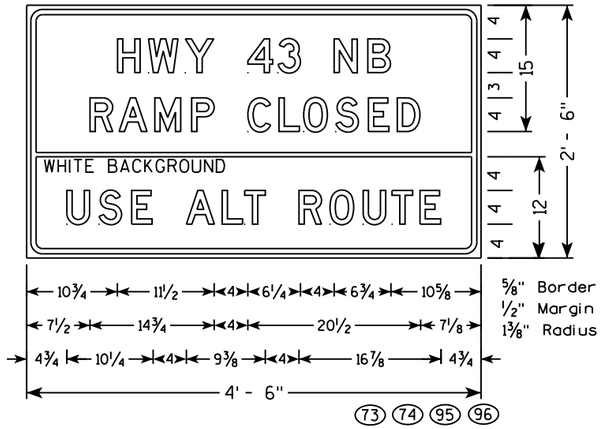
S.D.D. 15 D 38-1b

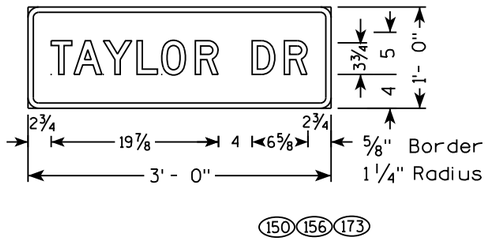
ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

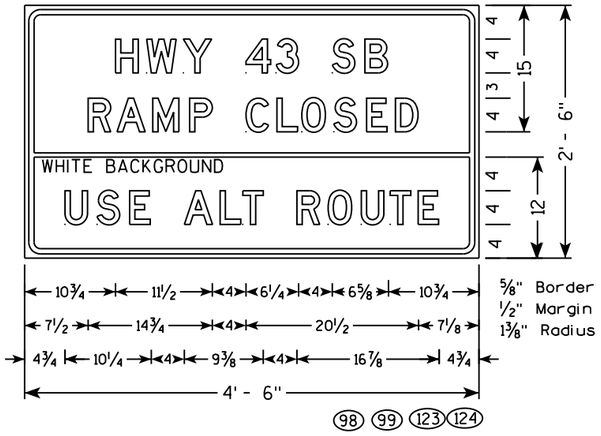
SIGN

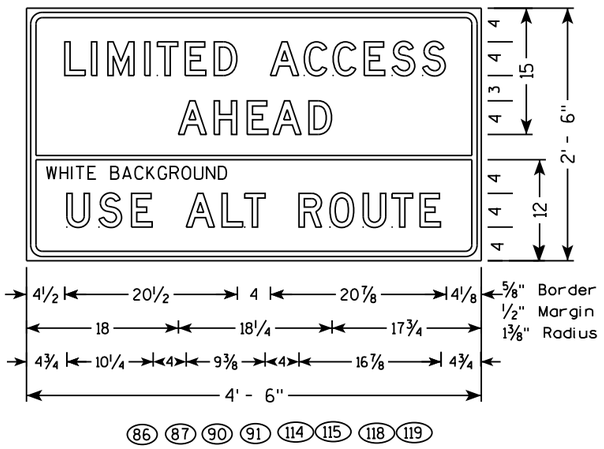


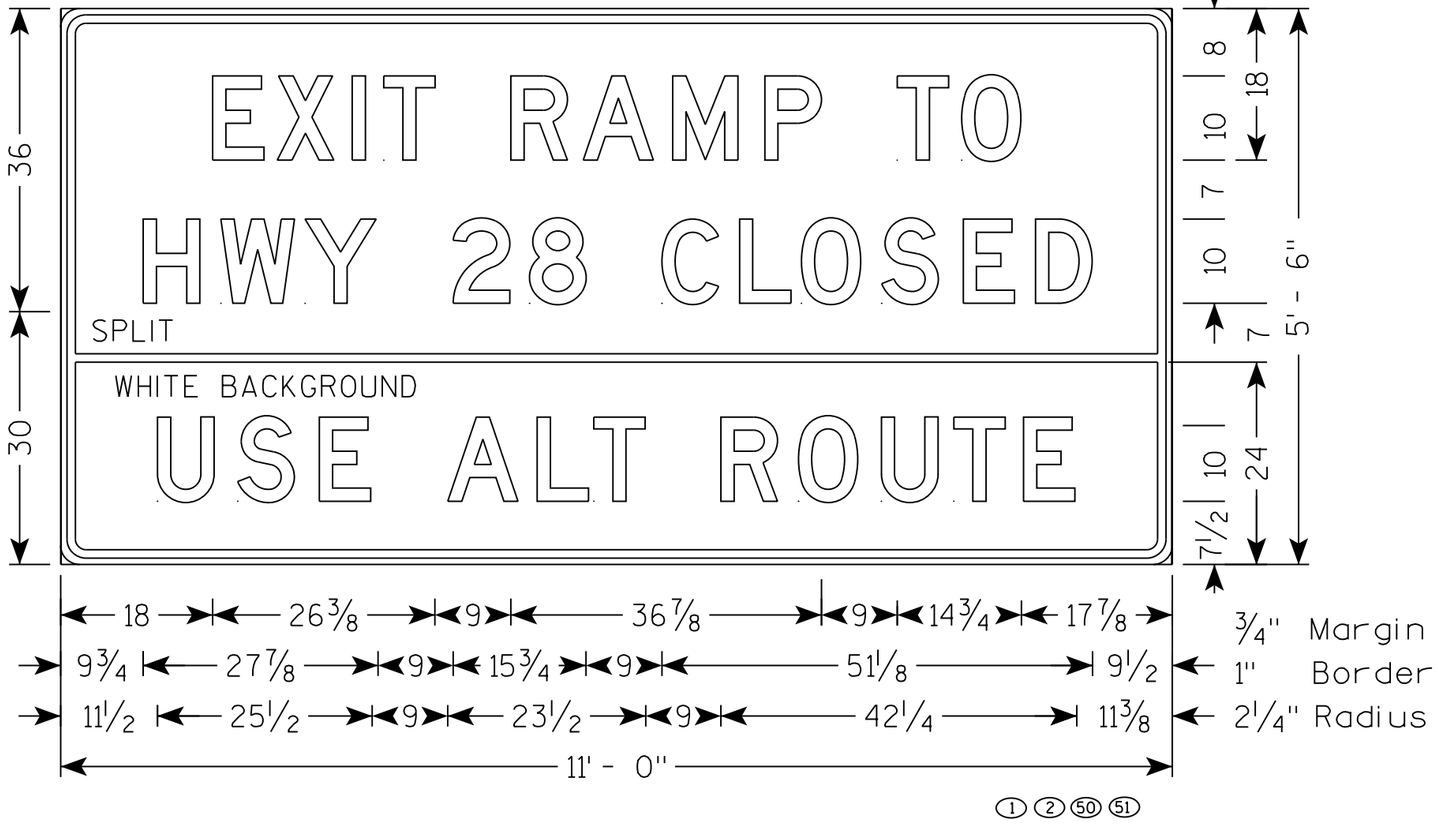


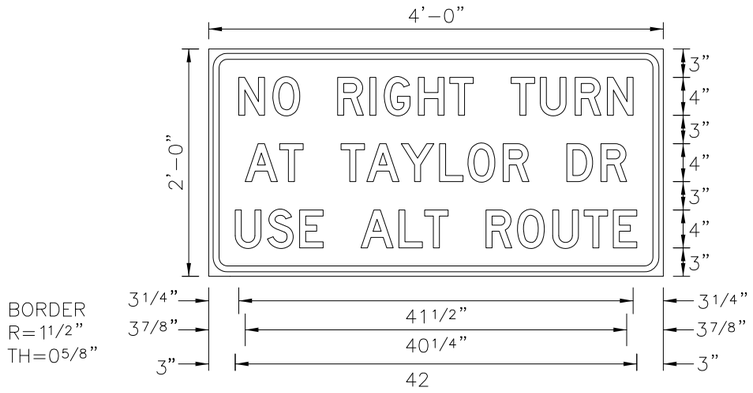
NOTES

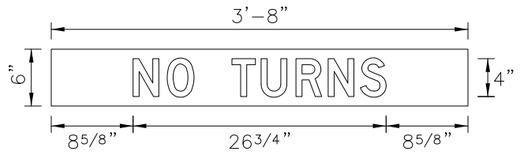
1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - ORANGE except as Shown
   Message - BLACK
3. Message Series - D

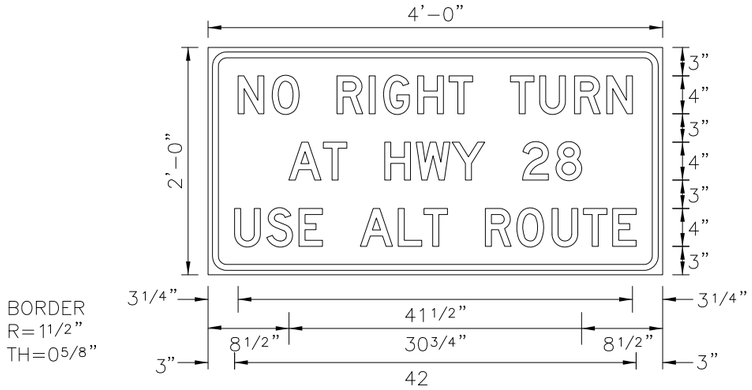


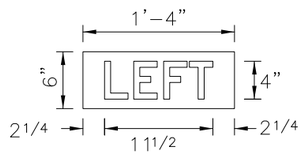












NOTES

1. SIGN IS FIXED MESSAGE SIGN - TYPE F REFLECTIVE SHEETING - REFERENCE WIS DOT STANDARD SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION LATEST EDITION.
2. COLOR:
   BACKGROUND - ORANGE
   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. ADJUST MESSAGE WITH DEMOUNTABLE PLAQUES SHOWN TO MATCH CONSTRUCTION STAGE.

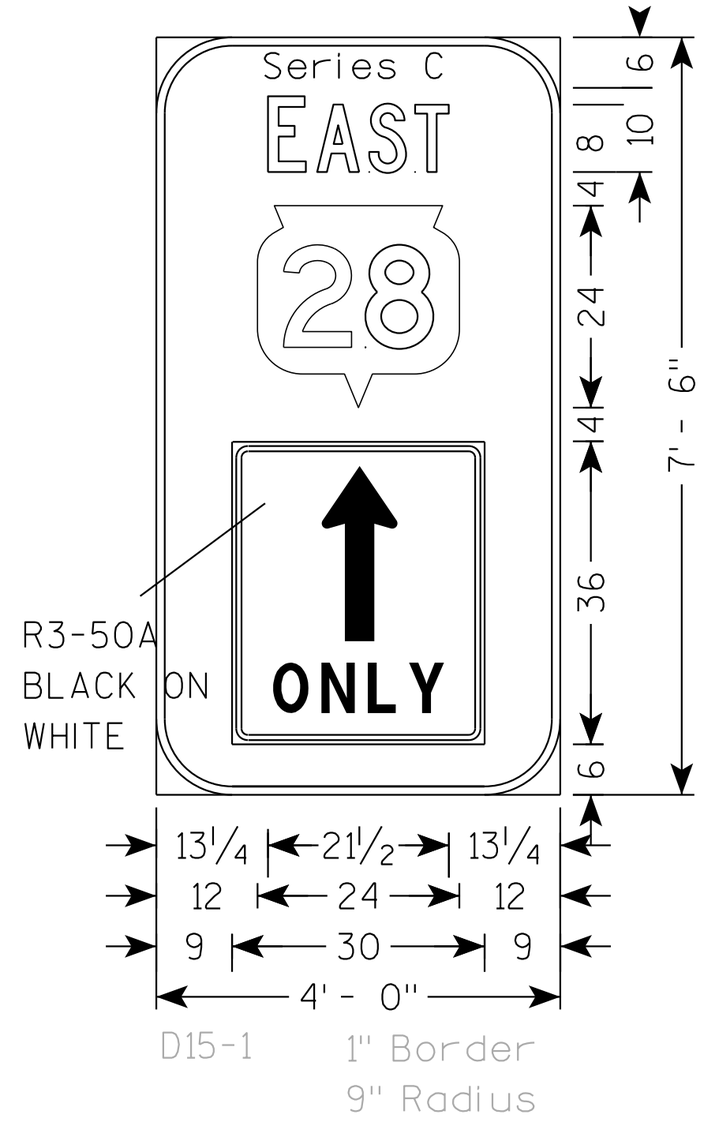
7

7

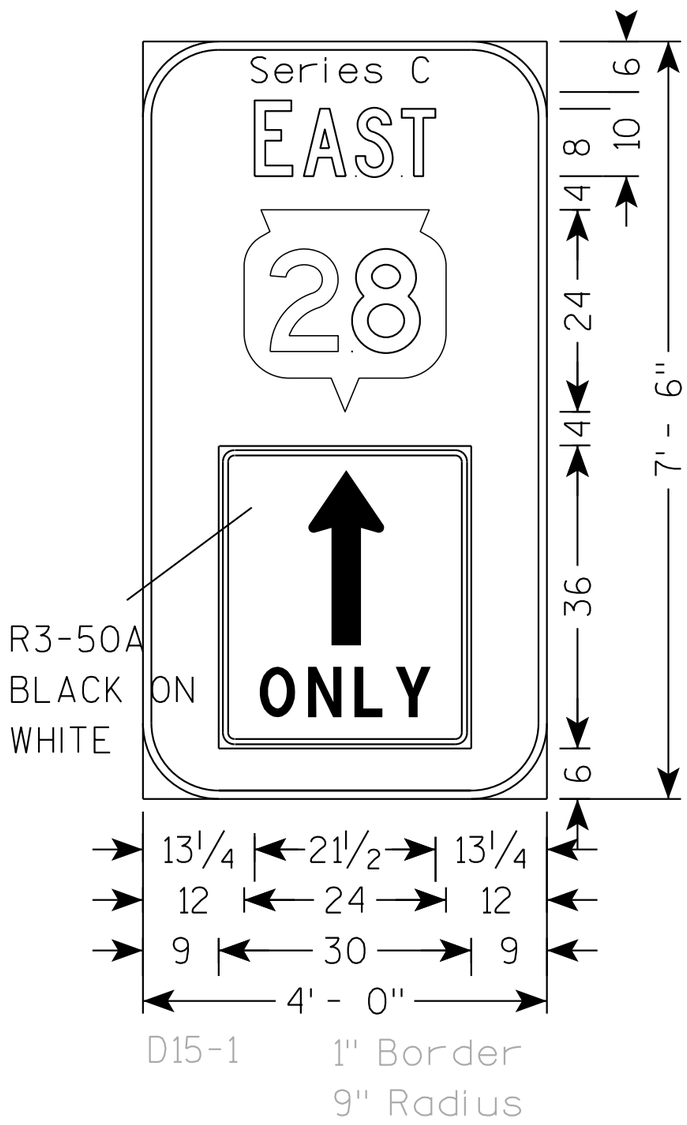
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	FIXED MESSAGE SIGNS	SHEET 485	E

NOTES

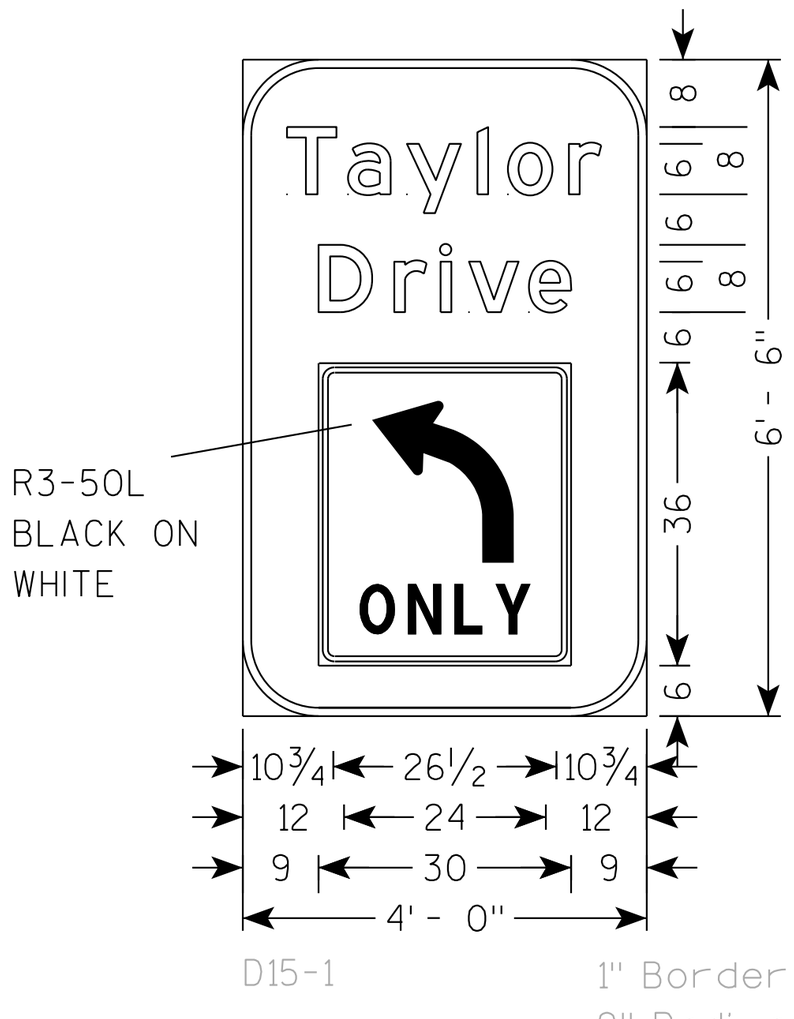
1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



D15-1 1" Border 9" Radius



D15-1 1" Border 9" Radius



D15-1 1" Border 9" Radius

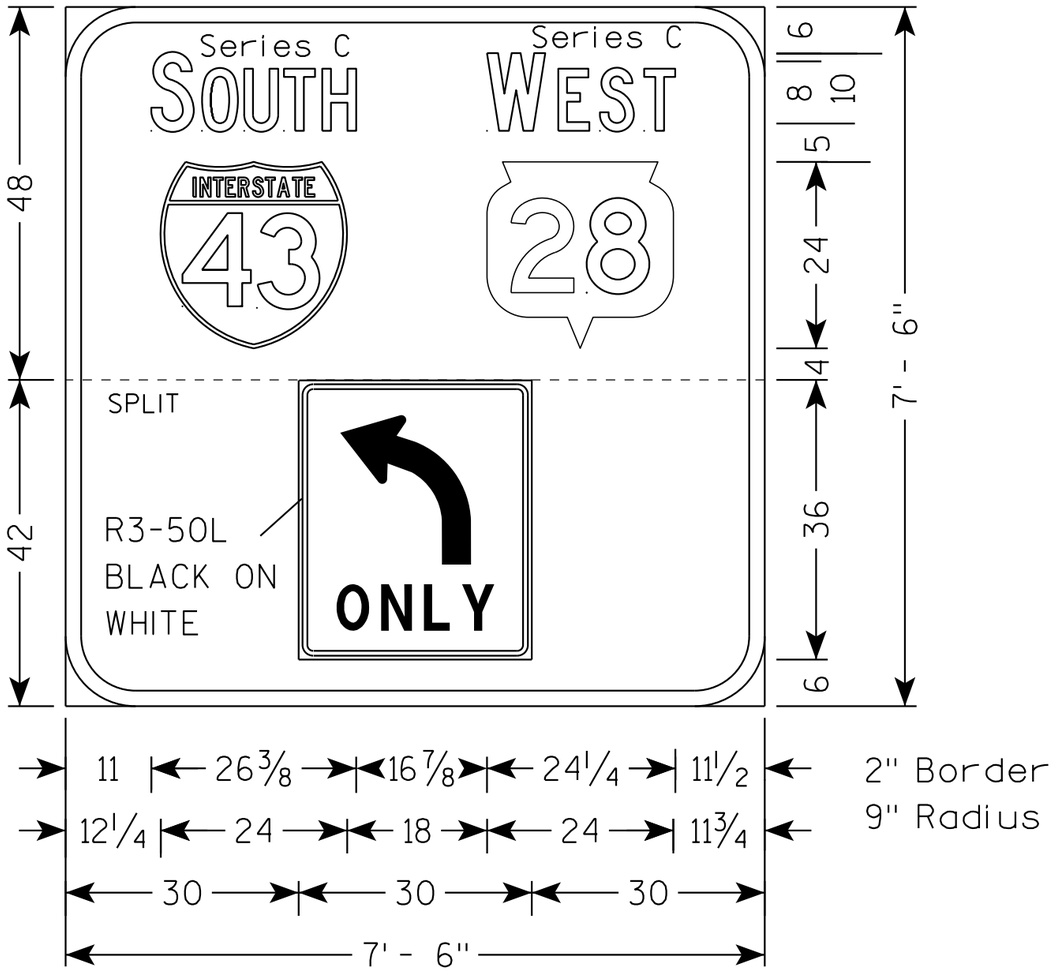
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7

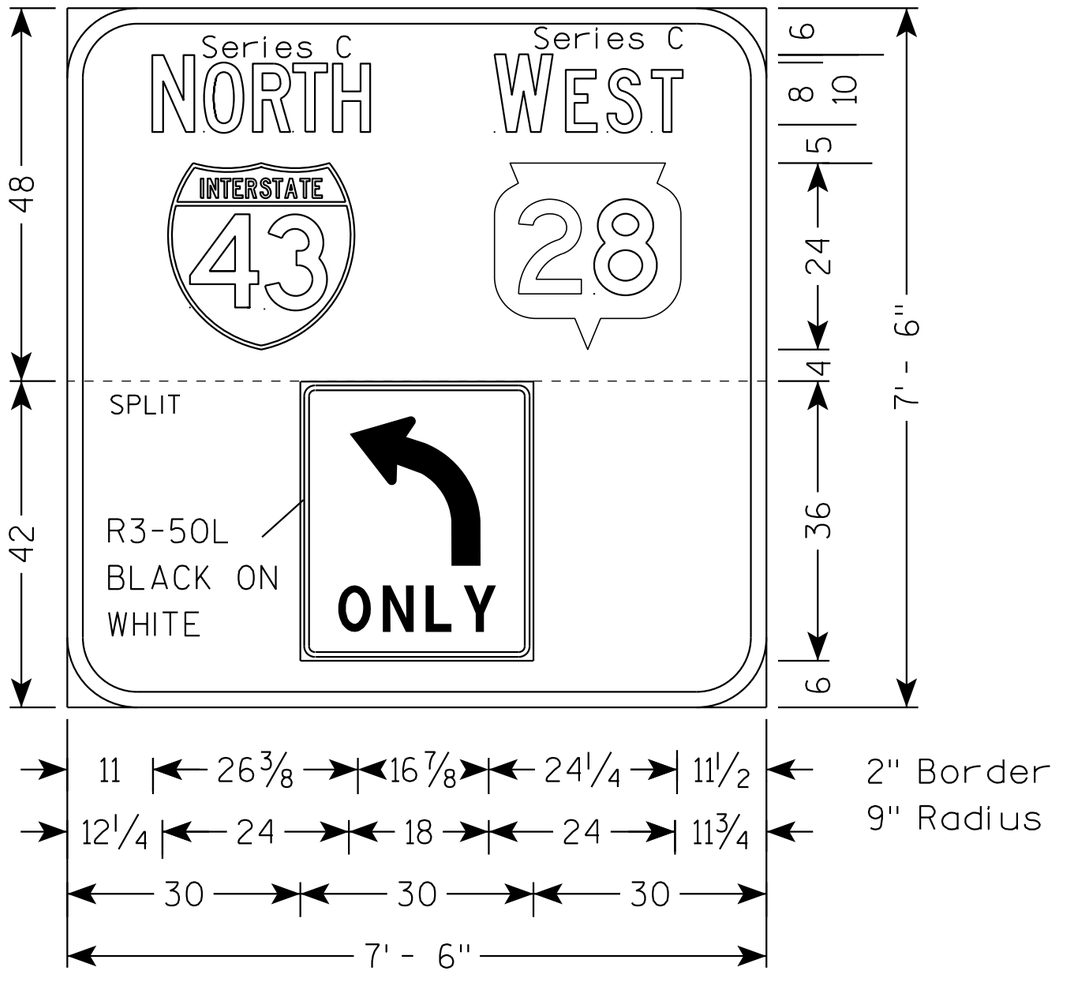
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET NO:	E

NOTES

1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



D15-2



D15-2

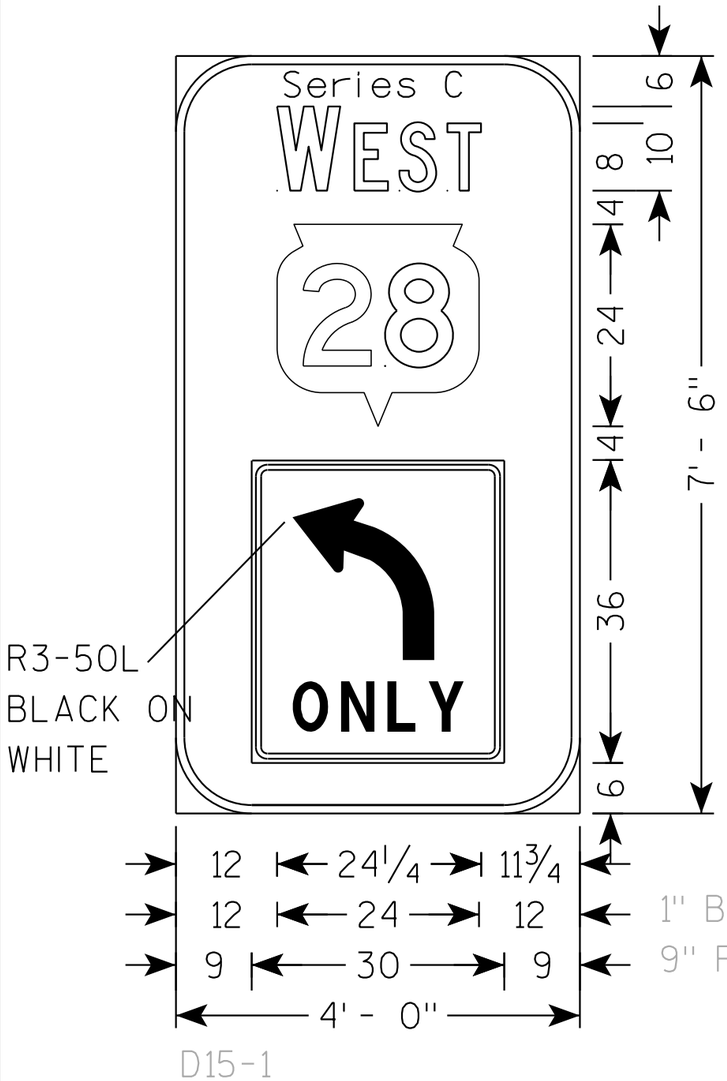
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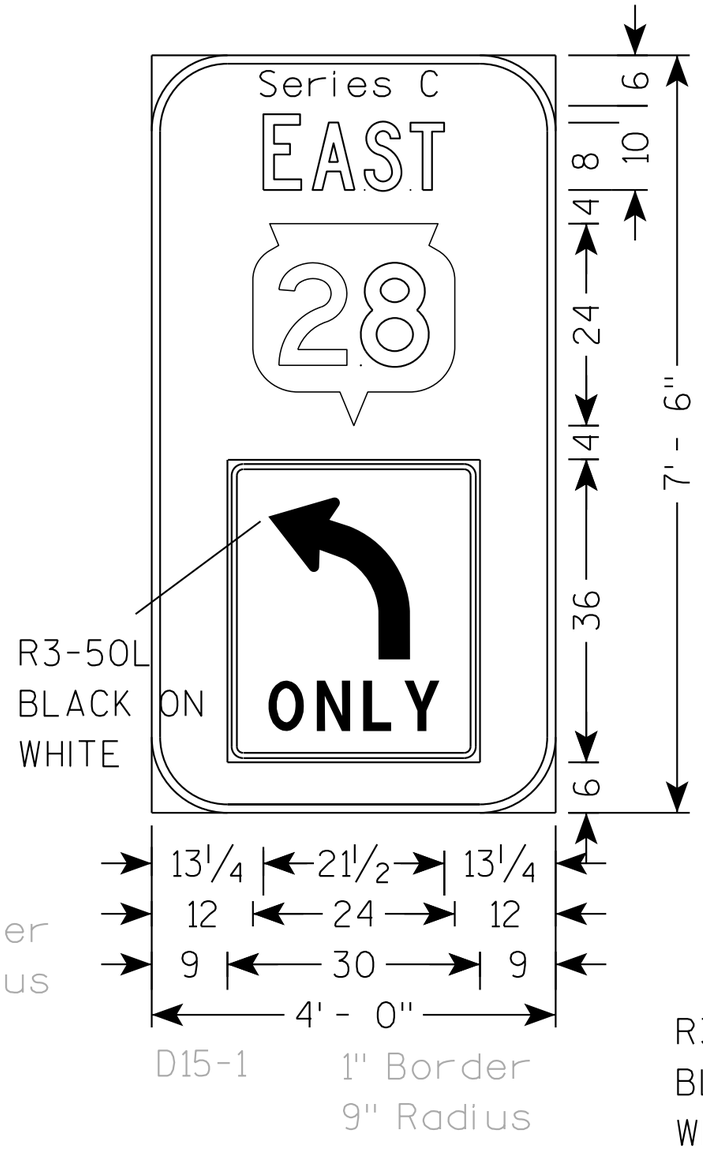
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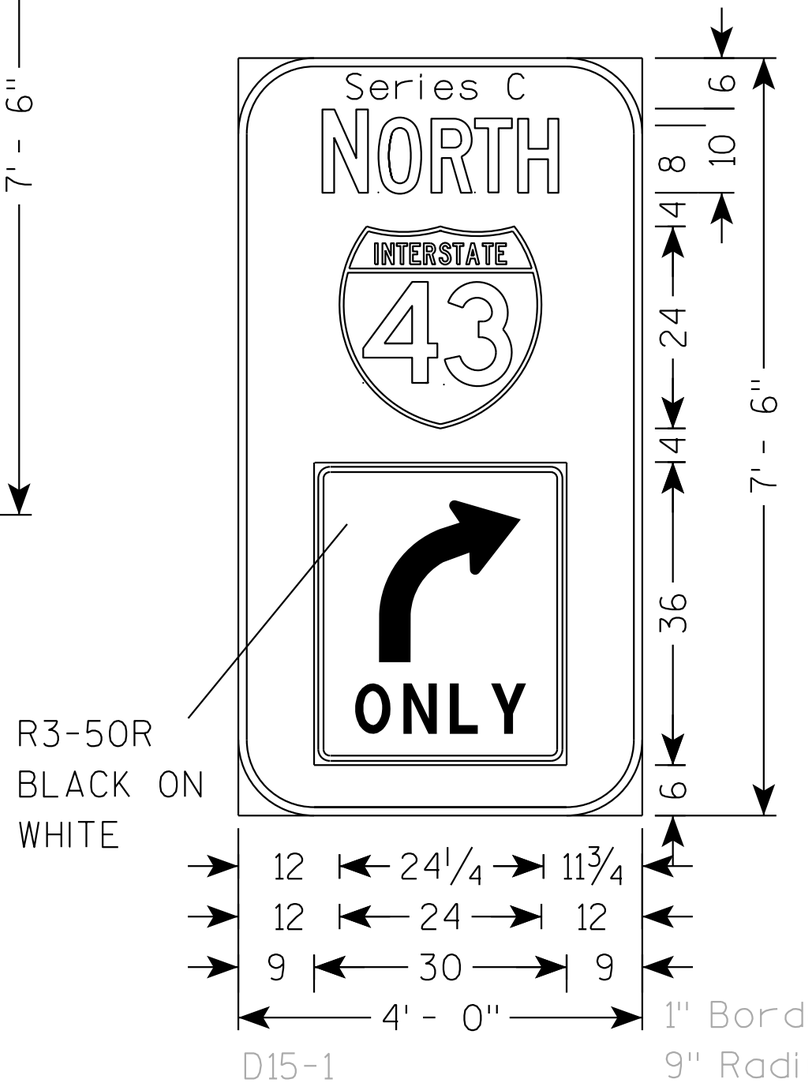
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET NO:	E

NOTES

1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E







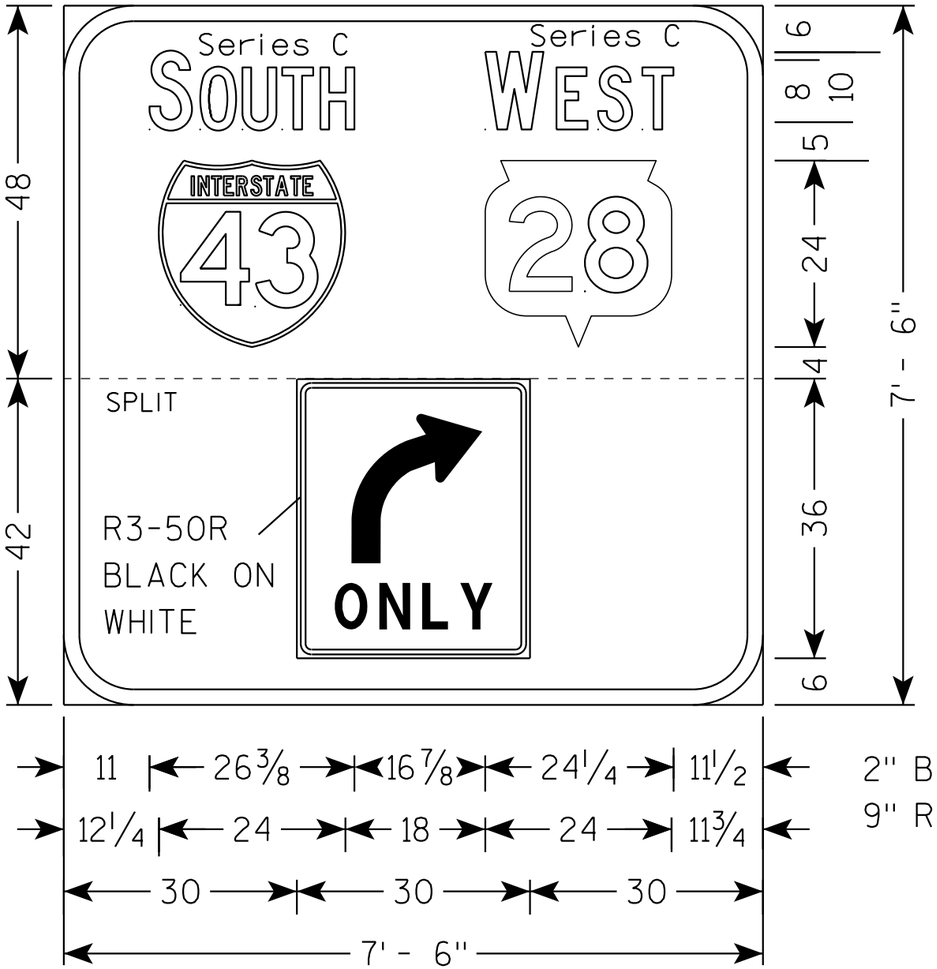
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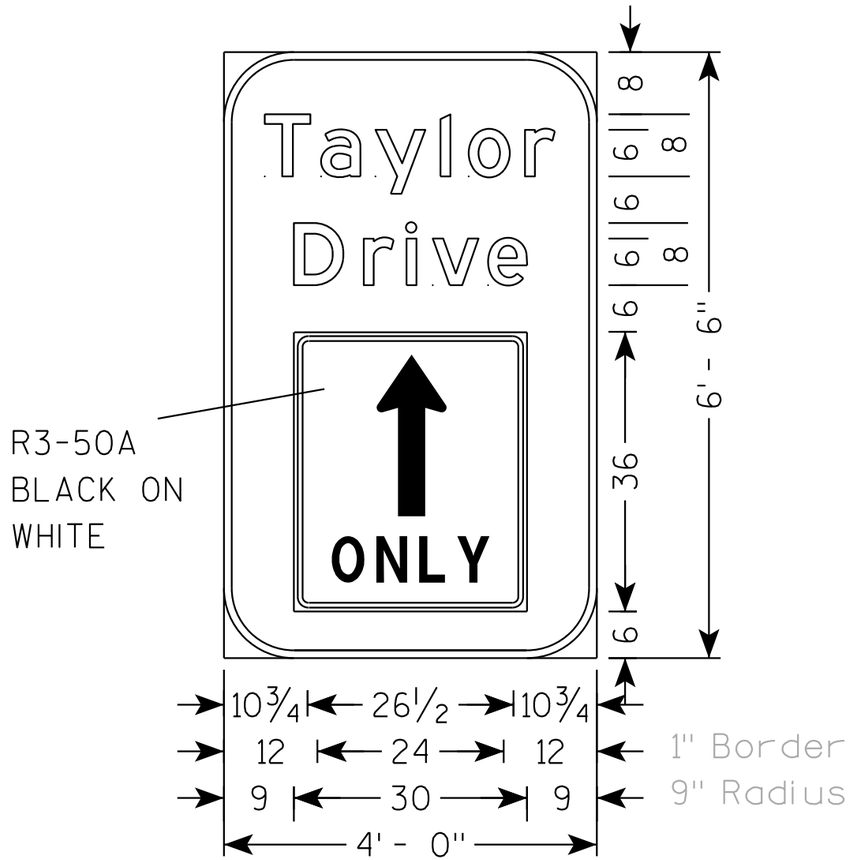
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET NO: E

NOTES

1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



D15-2



D15-1

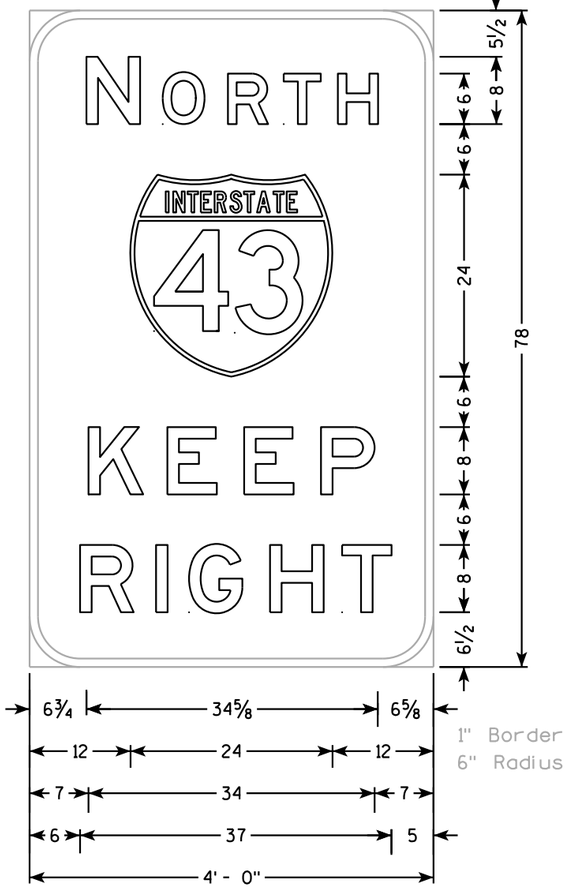
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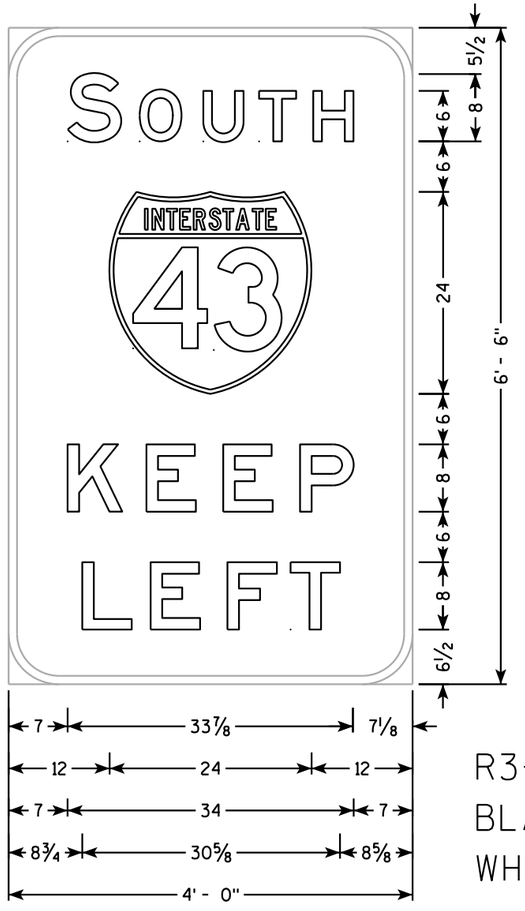
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET NO:	E

NOTES

1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E

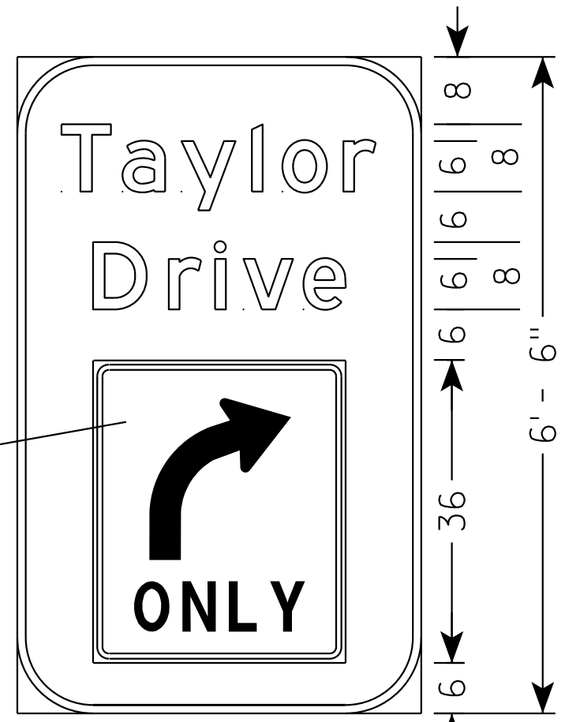


D15-1

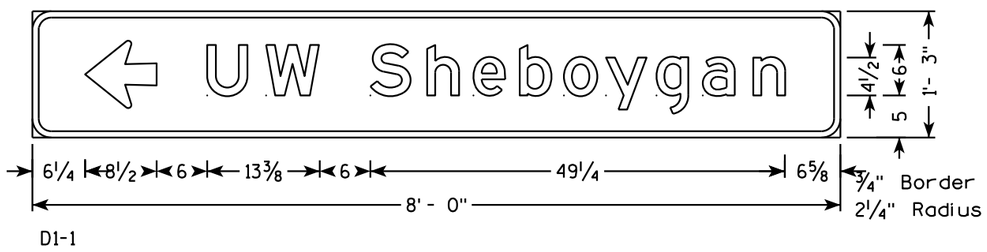


D15-1

R3-50R
BLACK ON
WHITE



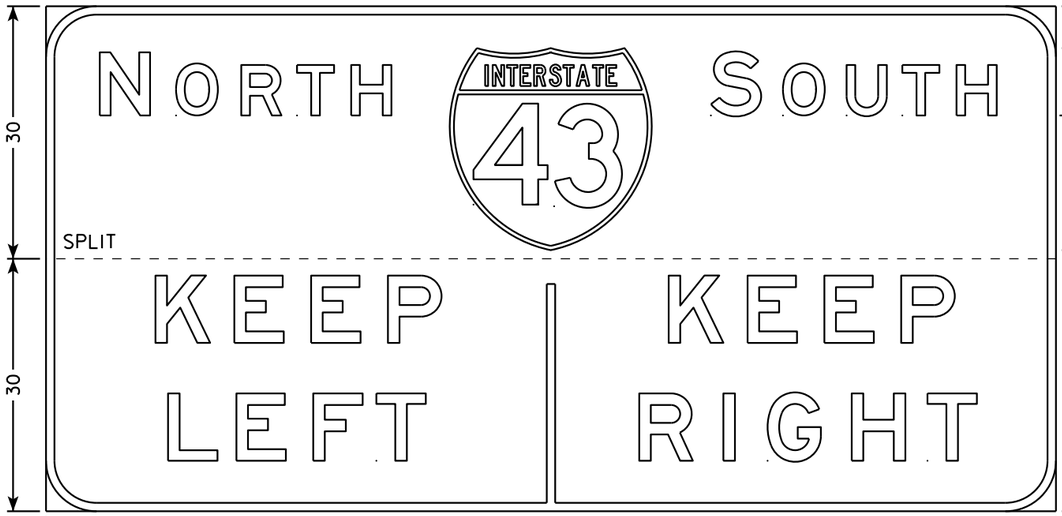
D15-1



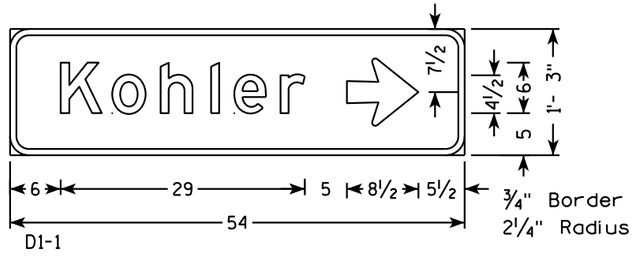
D1-1

NOTES

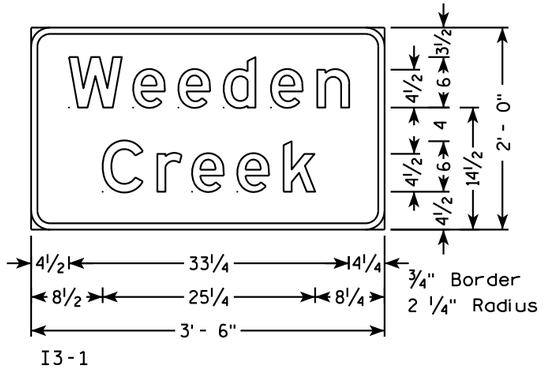
1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



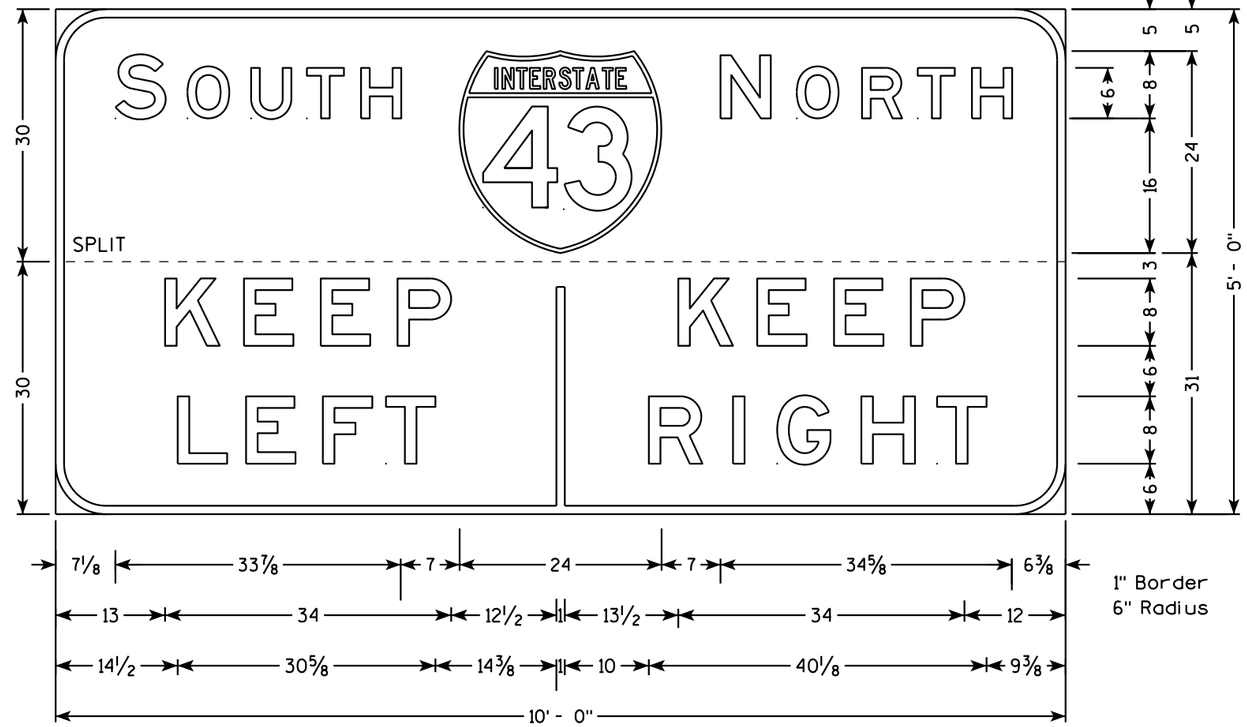
D1-72



D1-1



I3-1

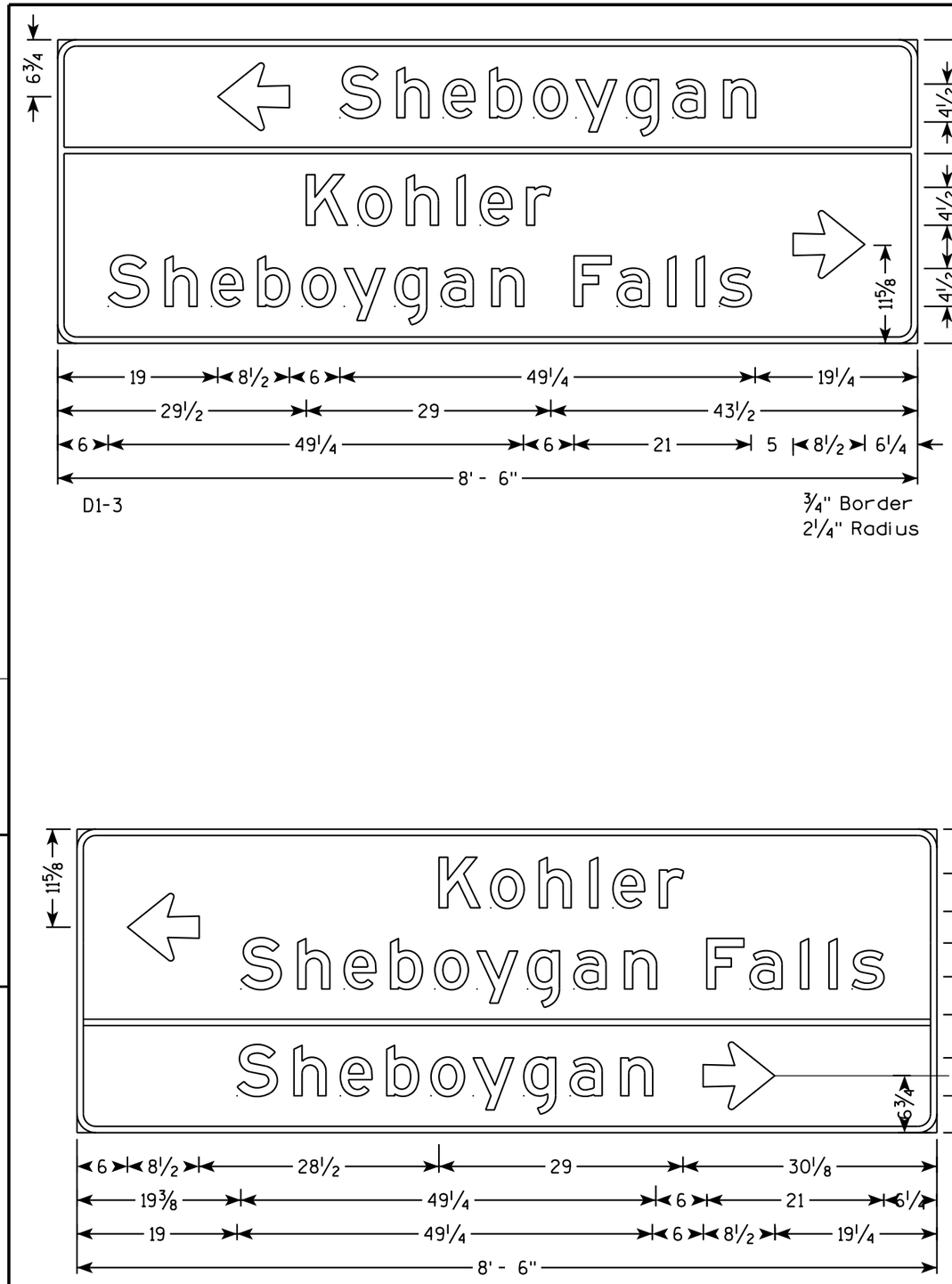


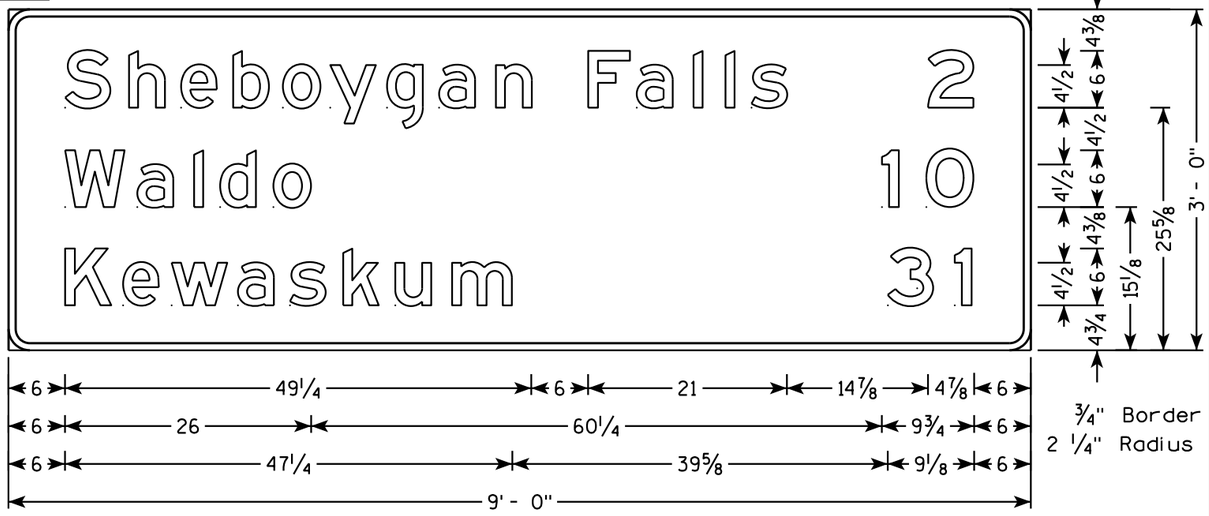
D1-72

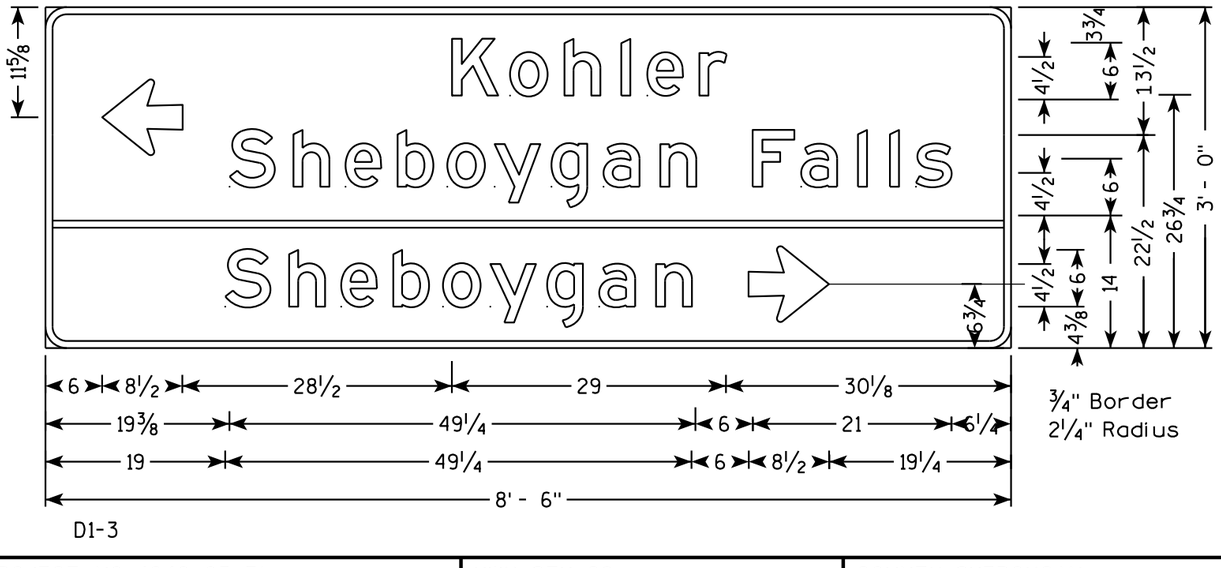
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET NO: E

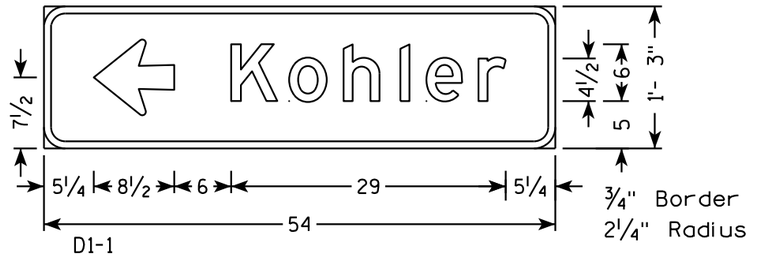
NOTES

1. All Sign Type II - Type H Reflective
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E









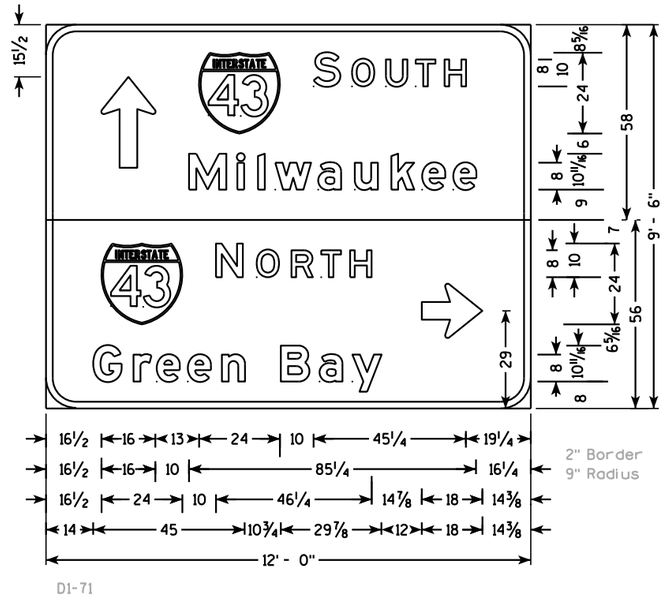
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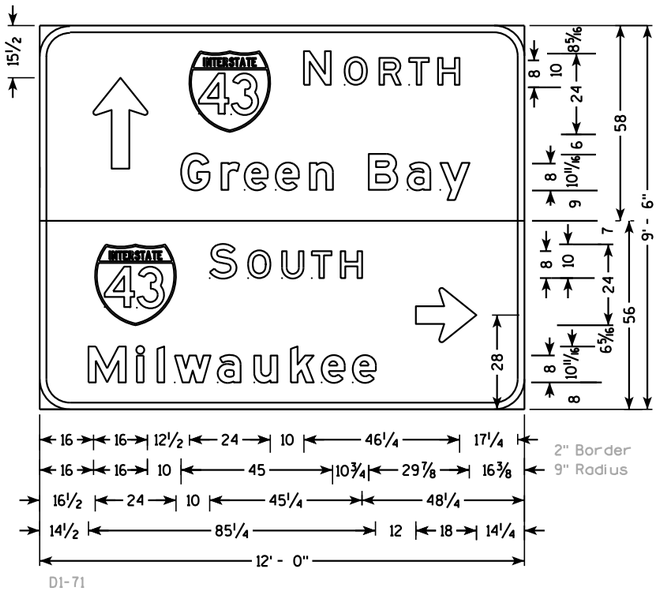
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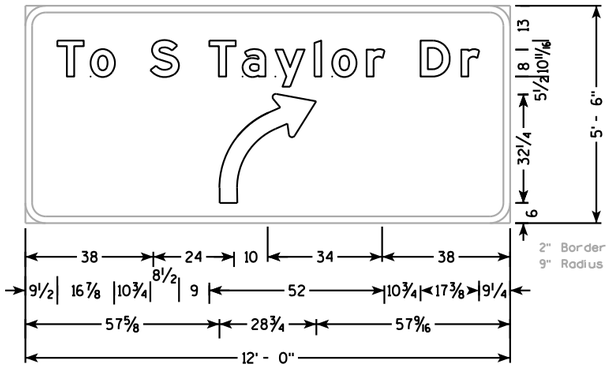
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	PERMANENT SIGNING	SHEET NO: 492	E

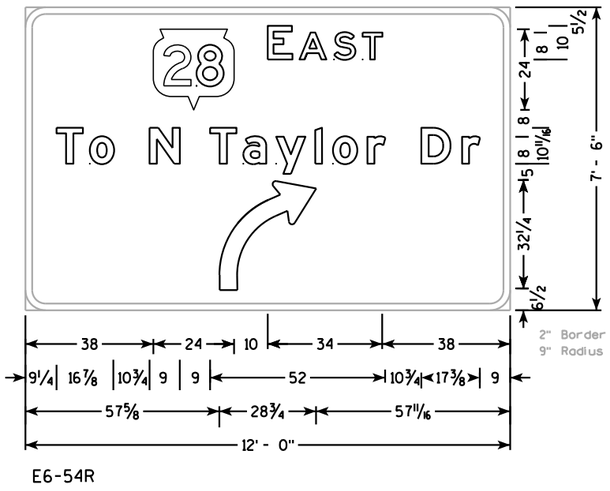
NOTES

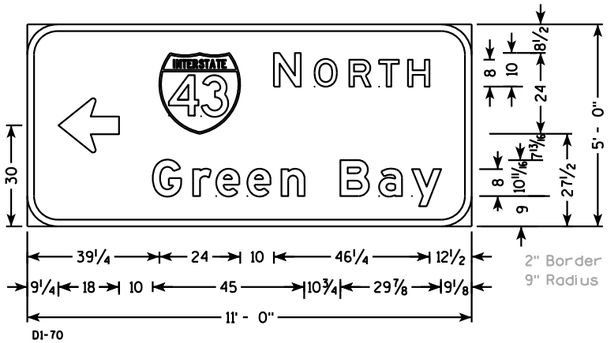
1. All Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all cap Words are Series E

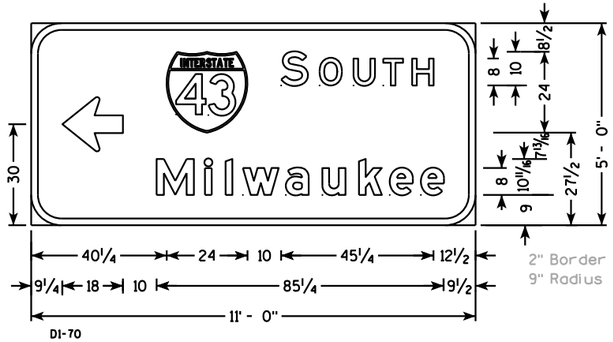








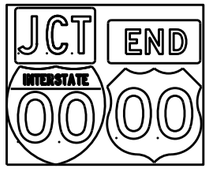




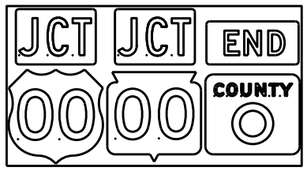
TYPICAL ASSEMBLIES



J1-1



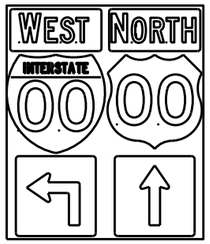
J1-2



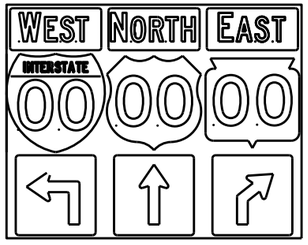
J1-3



J2-1



J2-2

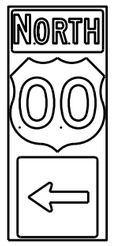


J2-3

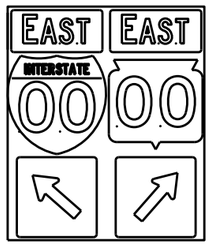


JV

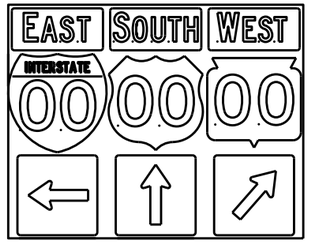
(Typical Vertical J-Assembly
See Note 10 and 11)



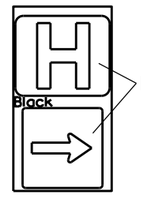
J3-1



J3-2



J3-3

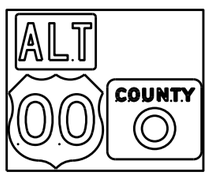


Blue Background

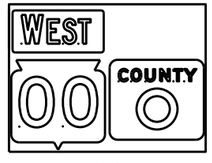
JH-1



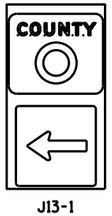
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

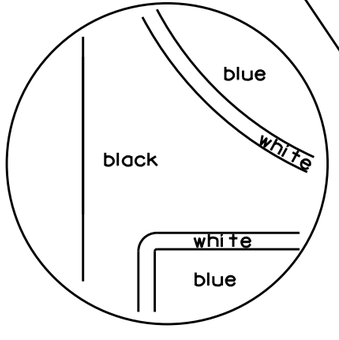


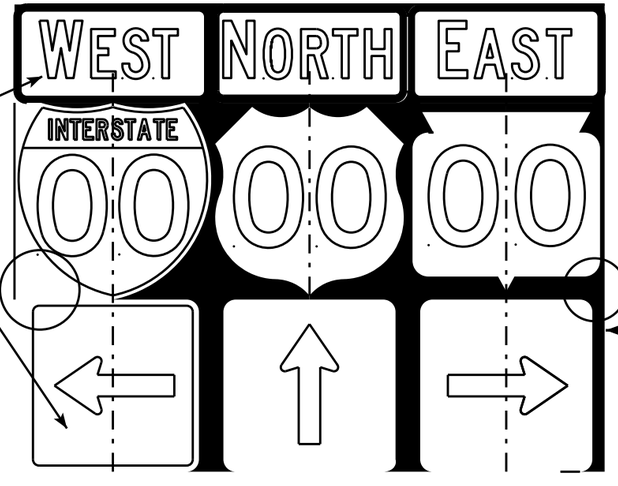
J23-1

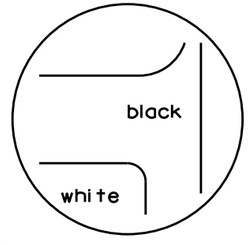


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

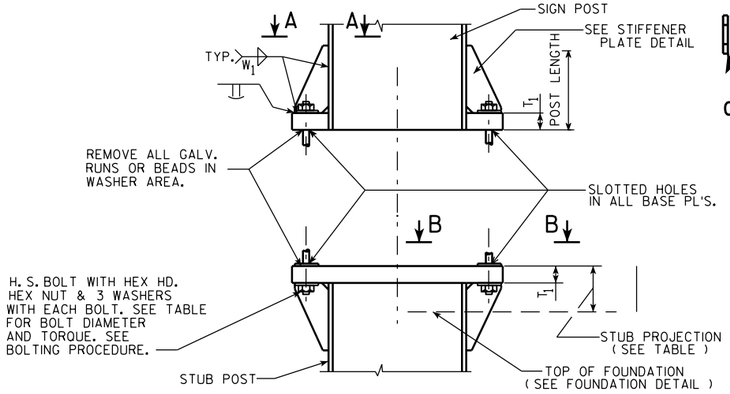
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL A2-1S.8

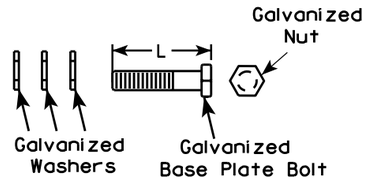
PROJECT NO: SHEET NO: E

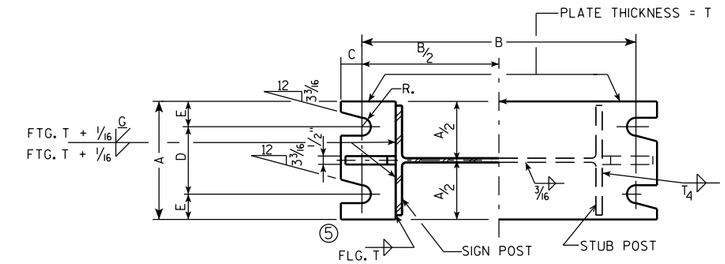
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

WISDOT/CADDS SHEET 42



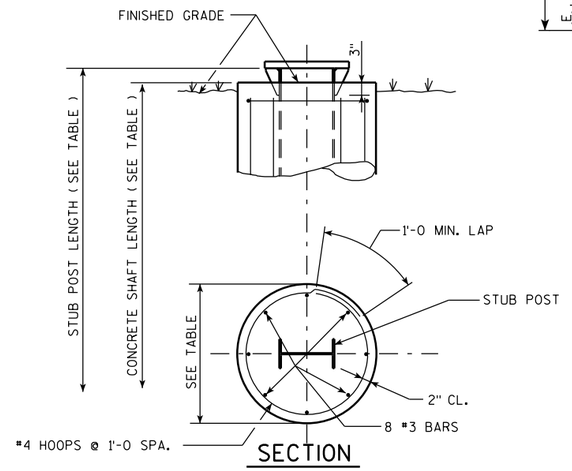
SIGN POST AND STUB POST ELEVATION



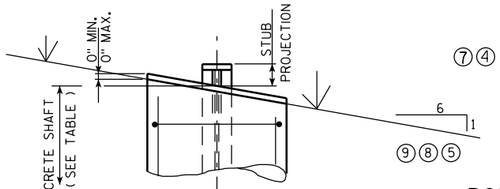


SECTION A-A

SECTION B-B



SECTION



SHAFT PLACEMENT

⑦④

⑨⑧⑤

DESIGN DATA

WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.

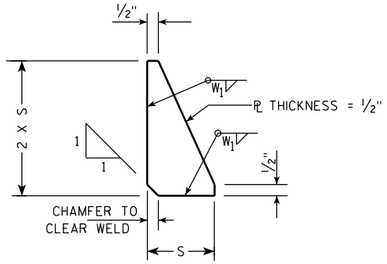
GROUP LOADS	PERCENT OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD & WIND	140
3. DEAD, ICE & 1/2 WIND[4]	140

[4] 25 P.S.F. MIN.

ALLOWABLE SOIL PRESSURE = 1 1/2 T / 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.

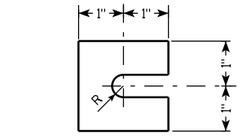
GENERAL NOTES

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.



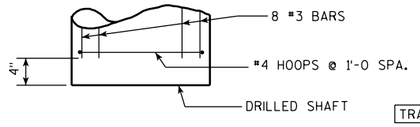
STIFFENER PLATE DETAIL

(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.

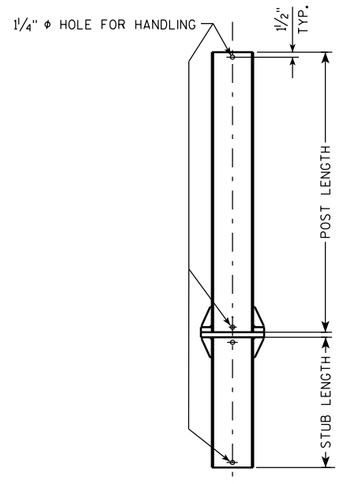
SHIM DETAIL



FOUNDATION DETAIL

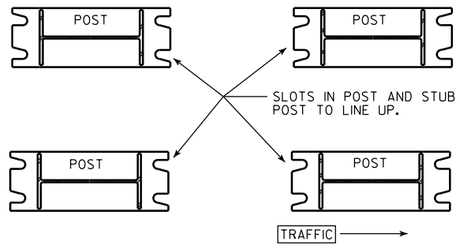
	QUANTITIES FOR 1 FOOTING	
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
⑦ E	1.0	62

REINF.	TYPE	#3	#4
	A	8 @ 4'-5	5 @ 6'-3
	B	8 @ 6'-5	7 @ 6'-3
	C	8 @ 6'-11	7 @ 6'-3
	D	8 @ 7'-5	8 @ 6'-3
⑦	E	8 @ 7'-11	9 @ 6'-3



POST DETAIL

TRAFFIC →



POST ON THE RIGHT — POST ON THE LEFT

POST SLOT ORIENTATION ⑦

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. PRIOR TO BOLT TIGHTENING LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. 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)
5. 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.

				BASE CONNECTION DATA TABLE										FOUNDATION DATA				②
L	X	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
3 3/4	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 3/4	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
5		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#
5		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#
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 6/30/14 PLATE NO. A3-1.15

⑩	1-21-14	LUBRICATION OF BASE BOLTS
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" ③ 4-23-79 TYPE "E"
①	5-4-78	T_1 , T_2 & W_1
NO.	DATE	REVISION

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

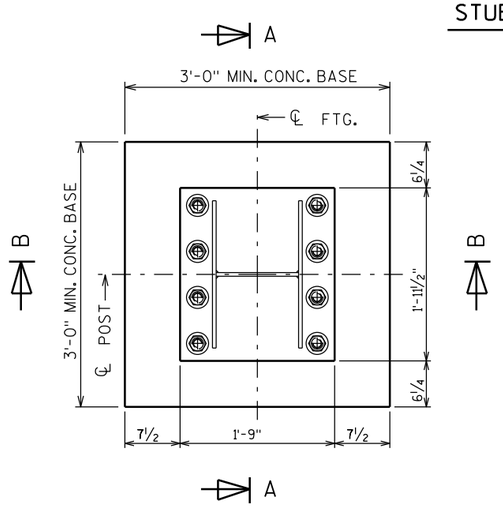
SHEET 495

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

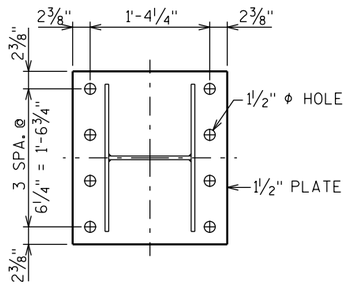
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WISDOT/CADDS SHEET 42

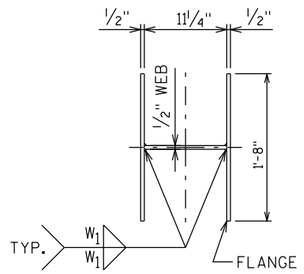
STUB AND MASONRY ANCHOR DETAILS



STUB SECTION



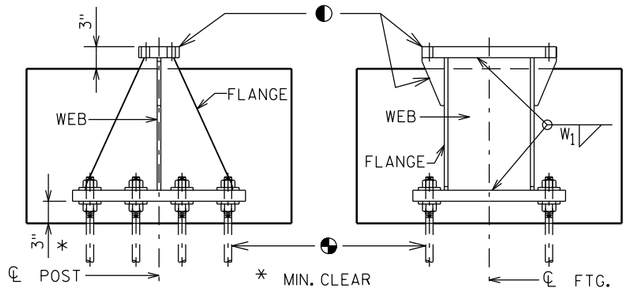
BASE PLATE



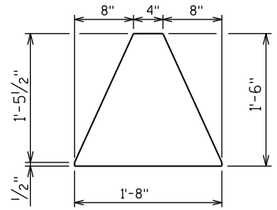
STUB

◐ SEE PLATE NO. A3-1 FOR DETAILS

◒ MASONRY ANCHORS TYPE S 1¼-INCHES (ADHESIVE). ALLOWABLE PULL OUT CAPACITY 14,995 KIPS. EMBED 1'-3" IN ROCK.



SECTION A SECTION B



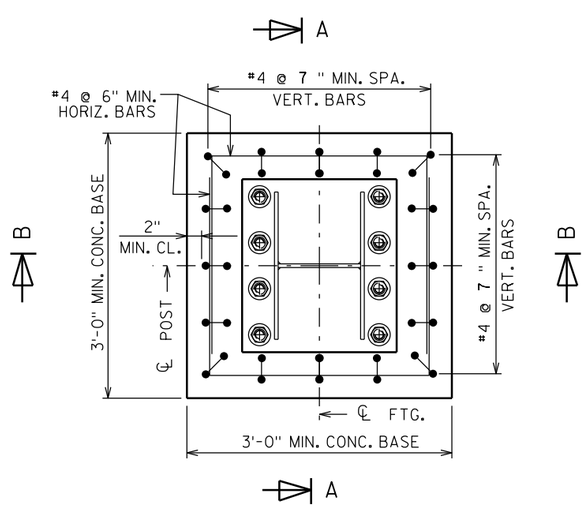
FLANGE

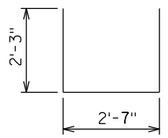
GENERAL NOTES

1. Quantities per Base:
   - REINFORCING BAR STEEL = 62 LBS
   - CONCRETE = 0.6 C.Y.
   - STEEL WEIGHT = 335 LBS
2. All materials, except anchor rod, nuts and washers, are to be A.S.T.M. A709 grade 50. All materials to be galvanized after fabrication.
3. If the contractor encounters rock before reaching the footing depth, per the A3-1 Sign Detail, determine the pull-out capacity of a test adhesive anchor installed in the rock. If the test result equals or exceeds the pull-out capacity of 14,995 KIPS, the contractor may install the breakaway stub for rock, according to this detail.

CONCRETE BASE AND REINFORCING STEEL DETAILS

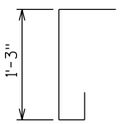
CONCRETE BASE SECTION





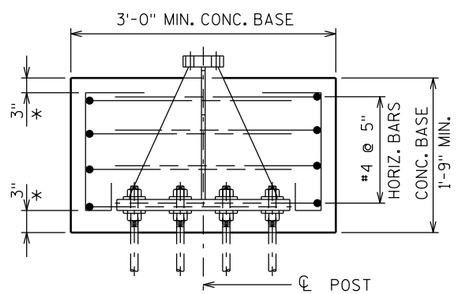
HORIZONTAL BAR

8 BARS @ 6'-11" LENGTH



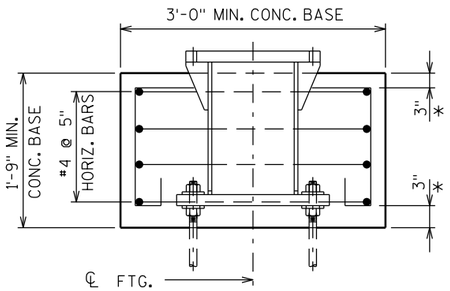
VERTICAL BARS

16 BARS @ 2'-4" LENGTH
MAY BE PLACED IN SKEW
FOR CLEARANCE NEED



SECTION A

* MIN. CLEAR



SECTION B

ALTERNATE BREAK-AWAY BASE ON ROCK
A3-1M

WISCONSIN DEPT OF TRANSPORTATION

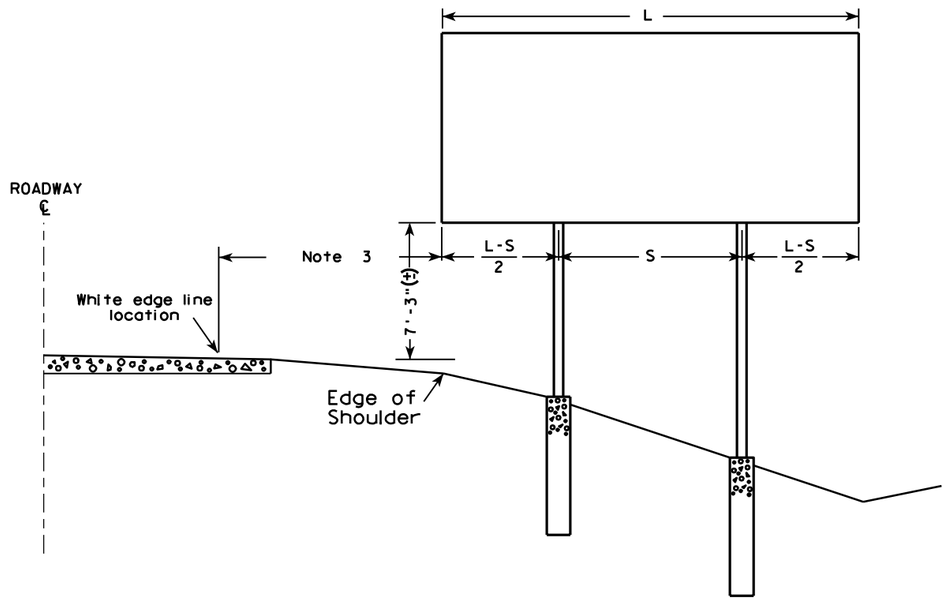
APPROVED Matthew R Rauch
for State Traffic Engineer

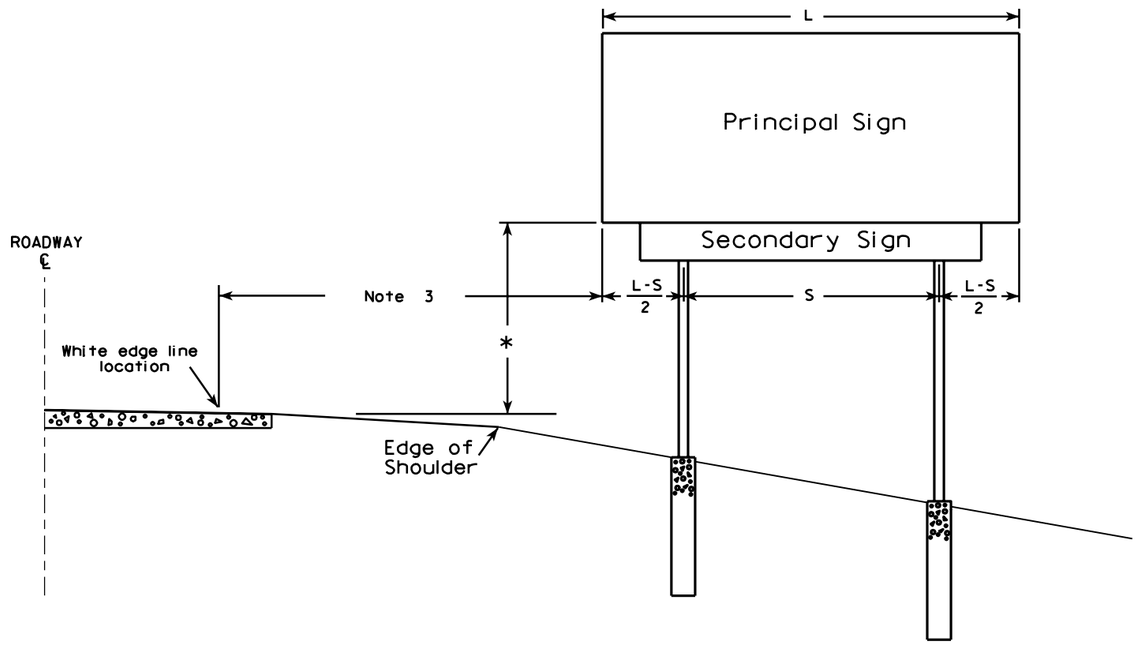
DATE 2/06/2014 PLAN A3-1M.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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WISDOT/CADDS SHEET 42





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

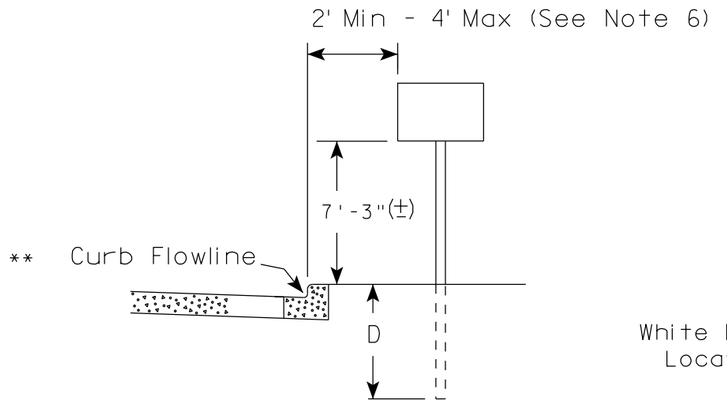
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

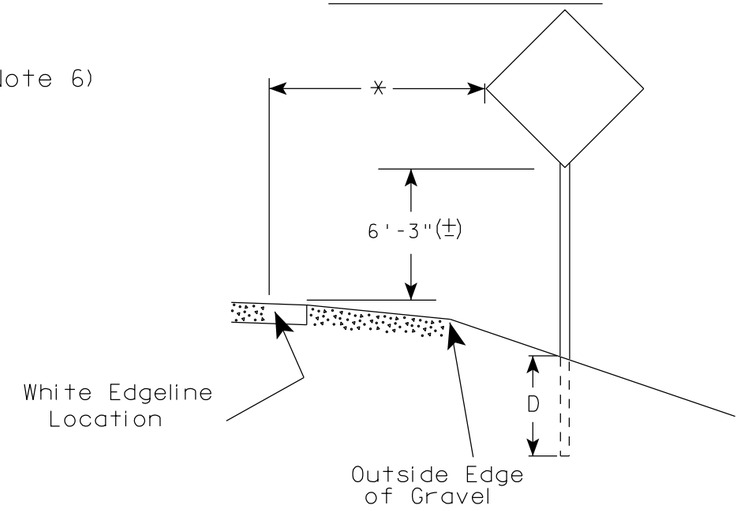
DATE 4/02/08 PLATE NO. A4-1.9

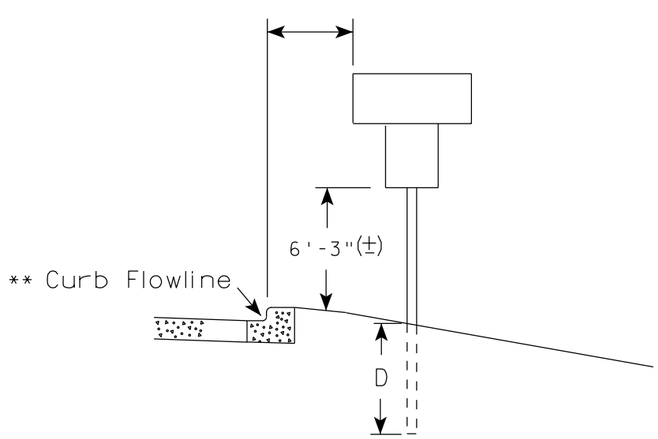
PROJECT NO:				SHEET NO: 497	E

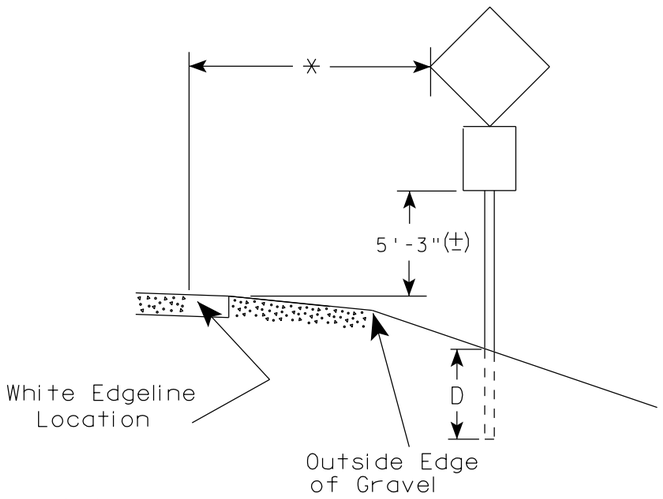
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

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.

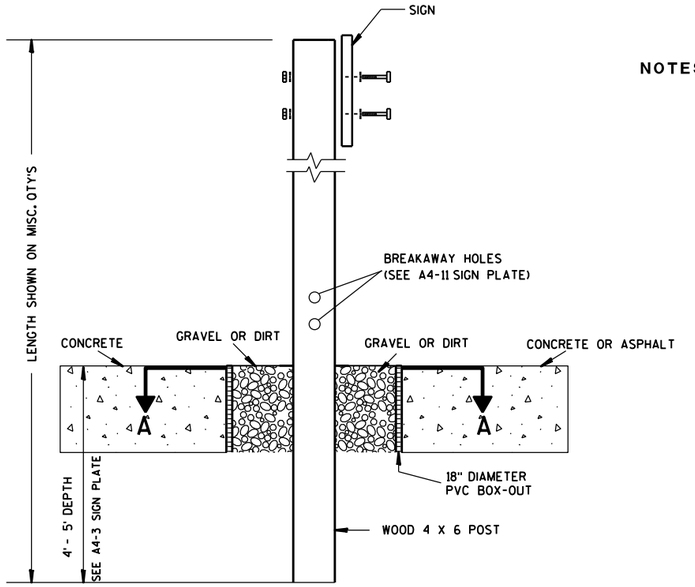
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

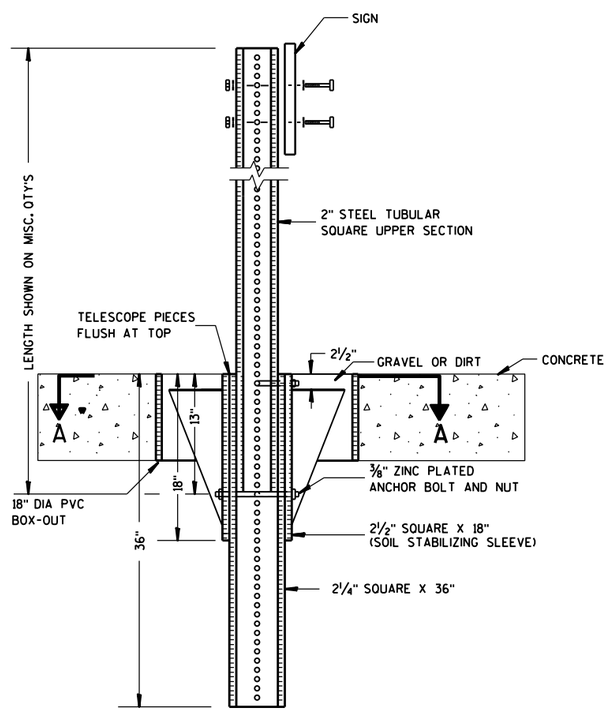
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

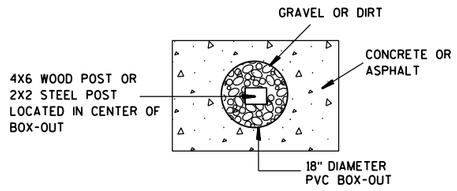
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

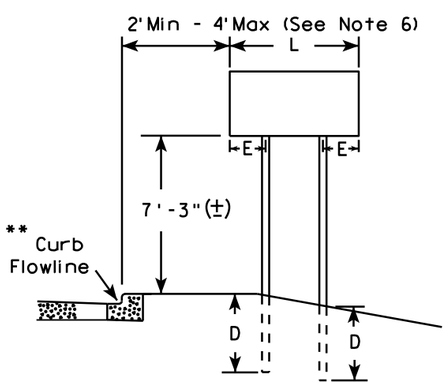
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

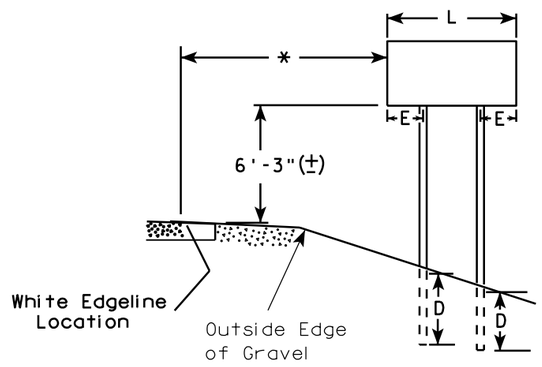
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

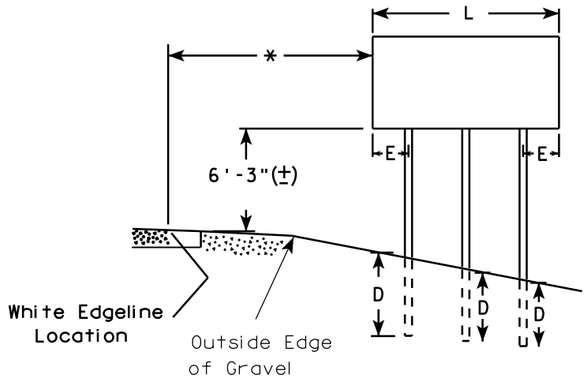
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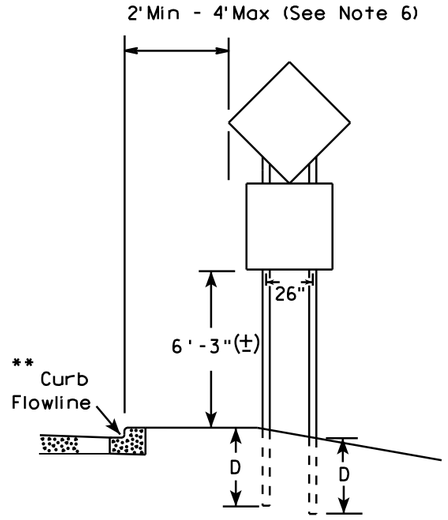
URBAN AREA



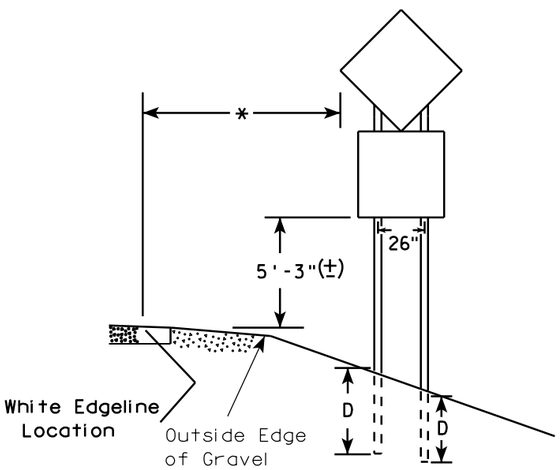
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

***

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

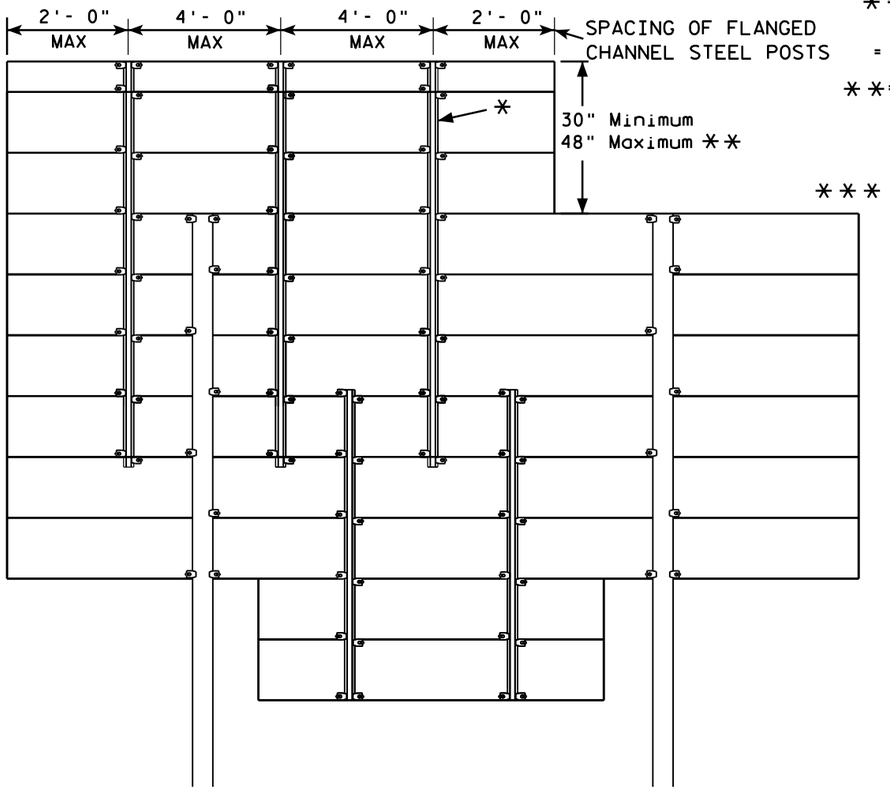
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. AA-A 500 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

GROUND MOUNTED SIGN

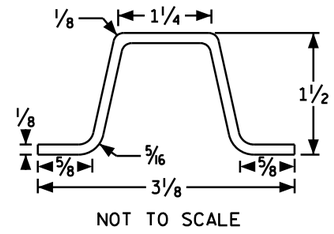


*=2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

**=FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

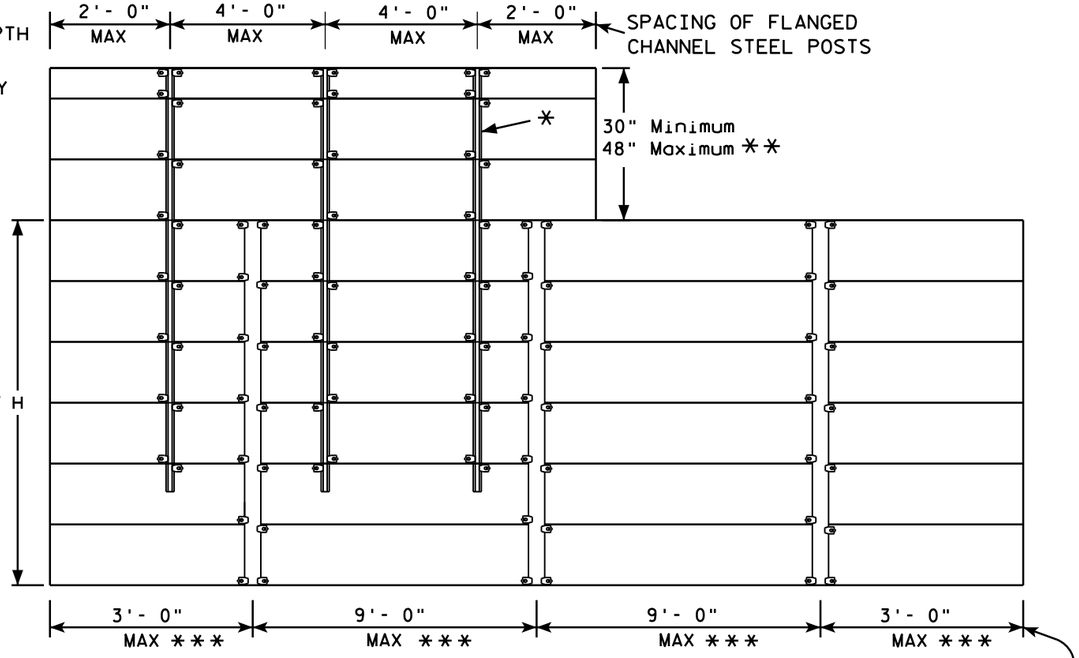
*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



SPACING OF ALUMINUM SIGN SUPPORTS
5" X 3.5" X 3.7 LBS./ft.

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)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

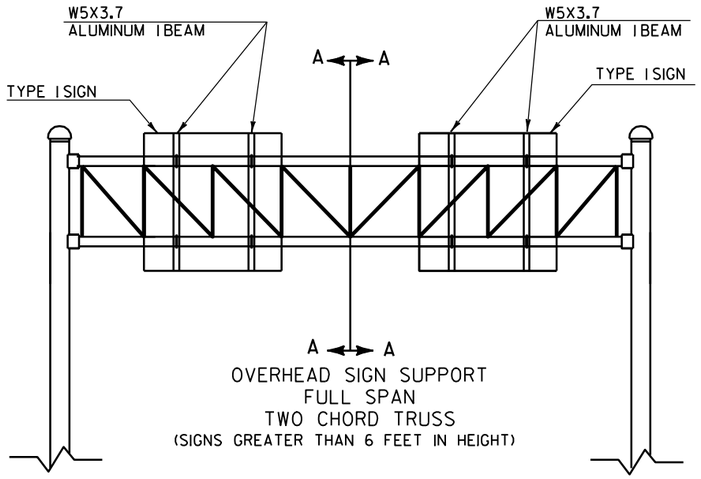
ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

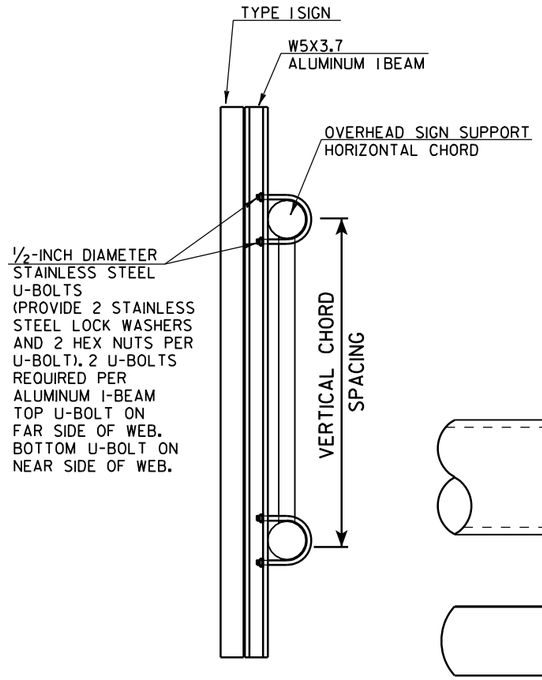
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/05/13 PLAT 501 A4-6.12

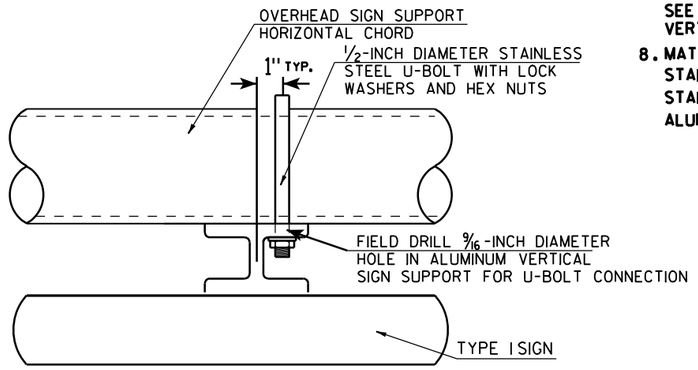
PROJECT NO:				SHEET NO:	E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



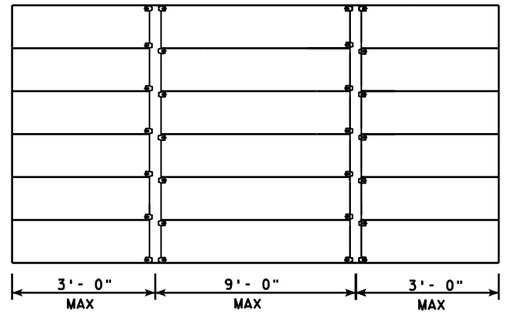
CUT SECTION A-A



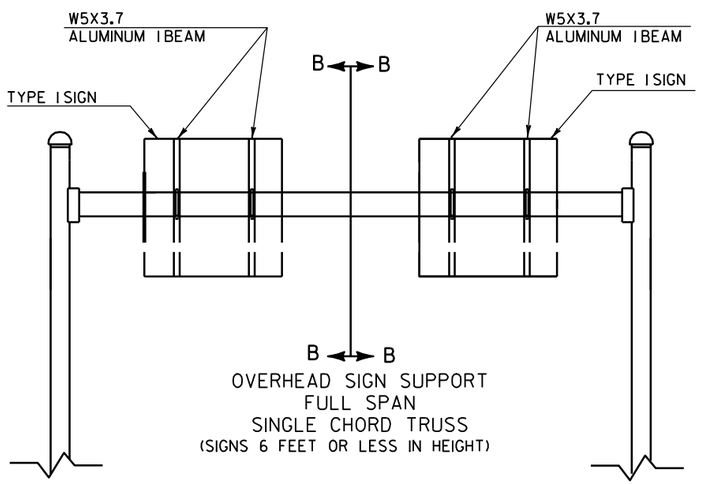
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

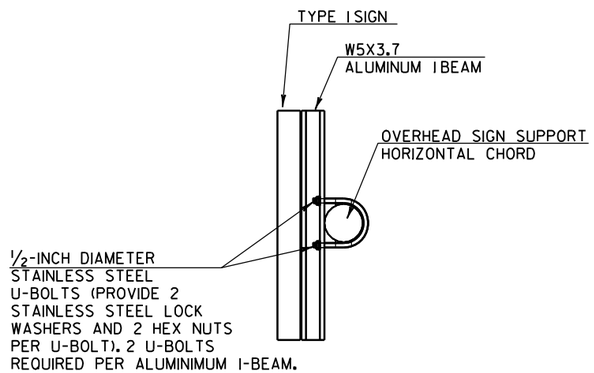
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE 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.



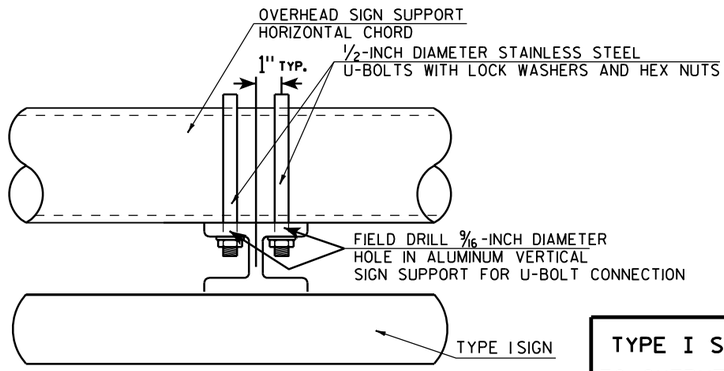
SPACING OF W5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



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

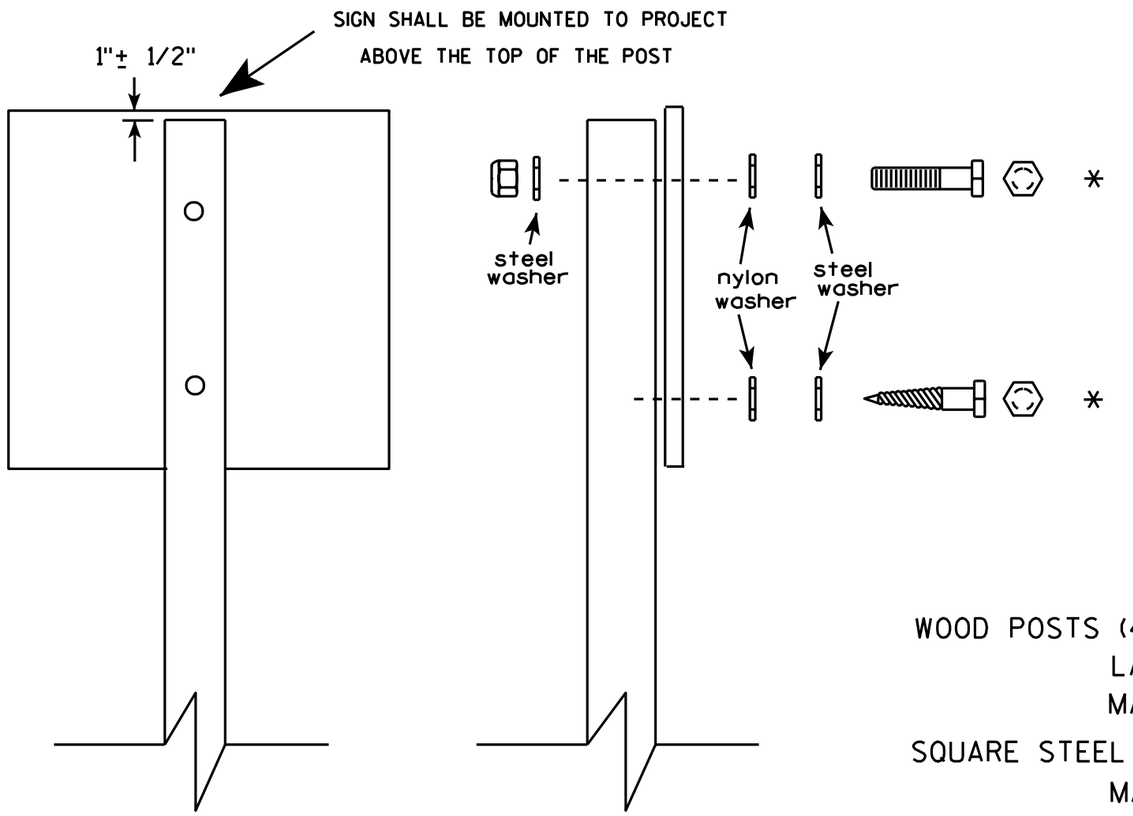
TYPE I SIGN CONNECTION TO OVERHEAD SIGN SUPPORT

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: 502	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

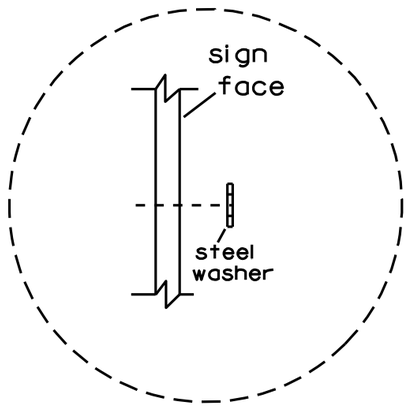
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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

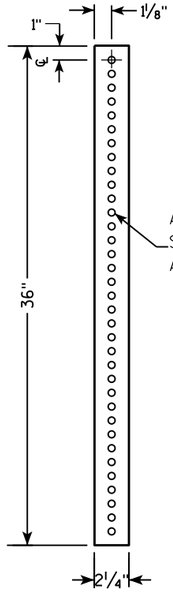
7

PROJECT NO:

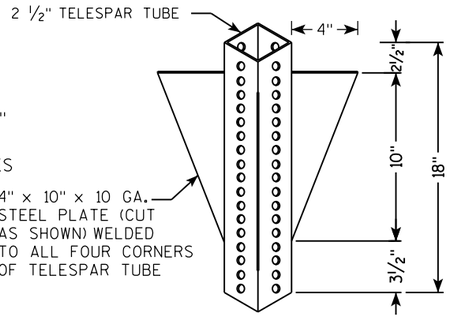
SHEET NO: 503 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

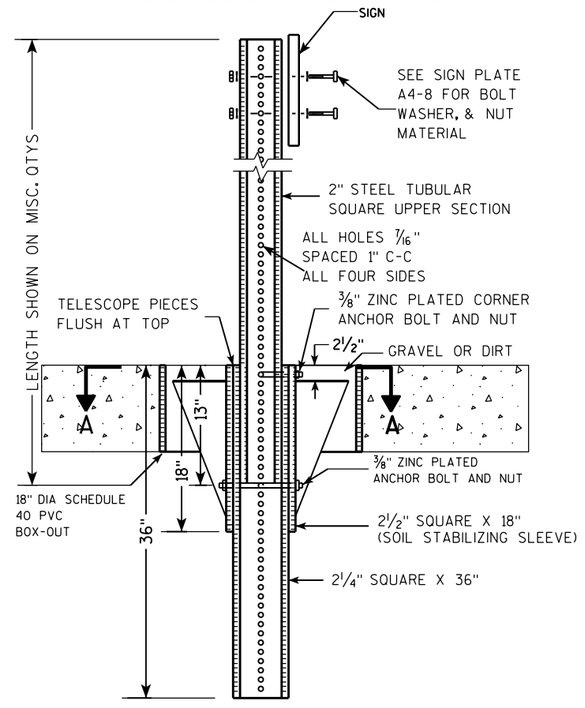
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



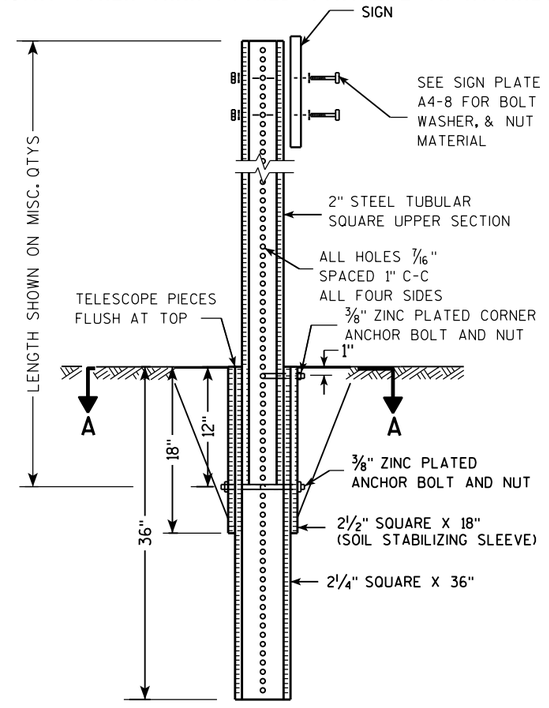
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

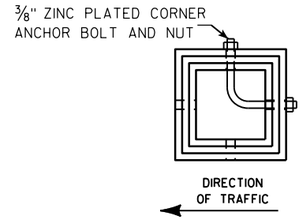


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





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).

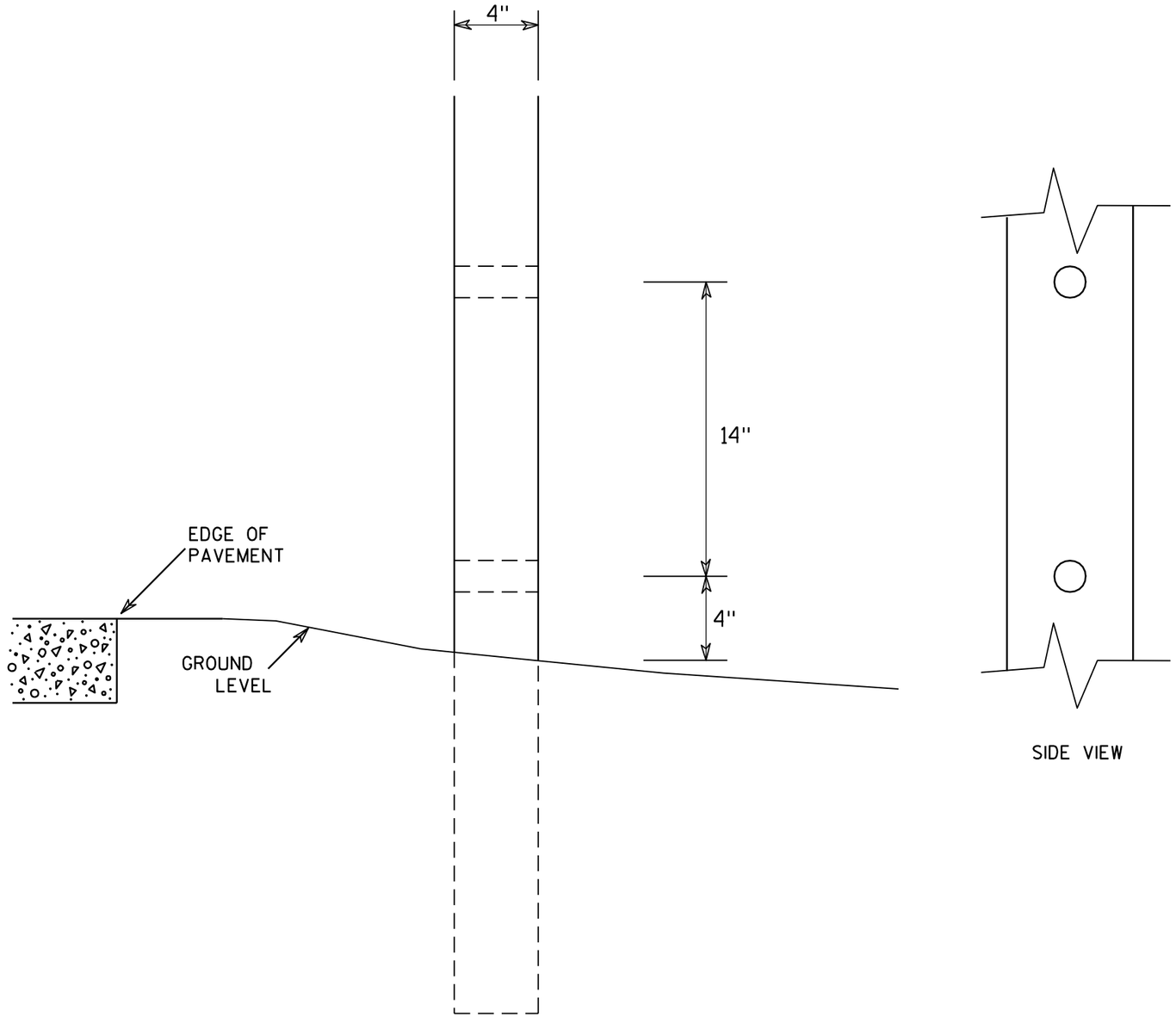
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 504 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

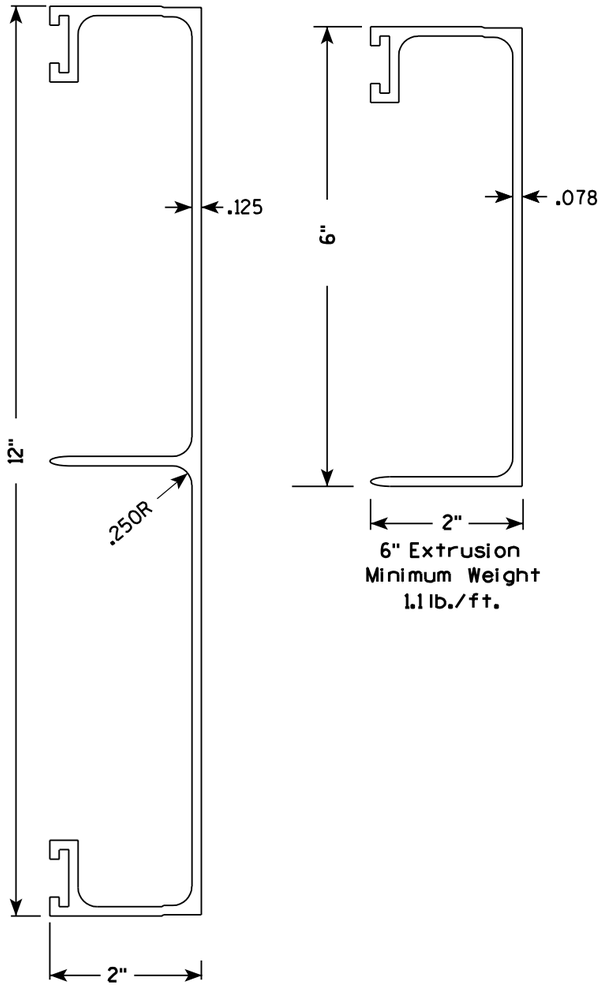
WISCONSIN DEPT OF TRANSPORTATION

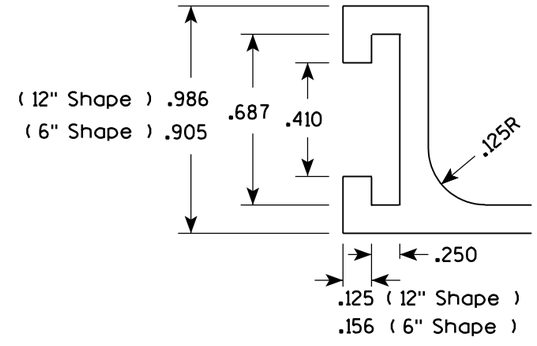
APPROVED Chester J Spang
for State Traffic Engineer

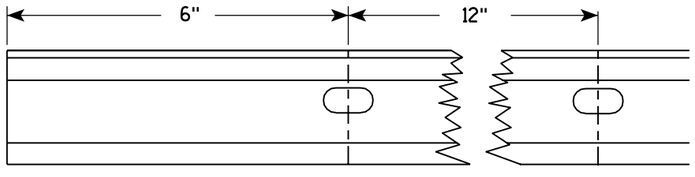
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 505	E

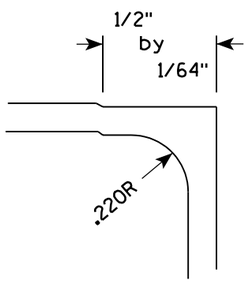
Extruded Shape







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.

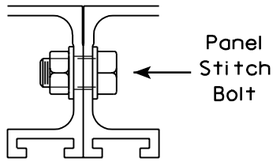


Hardware

STITCH BOLT, WASHER & NUT

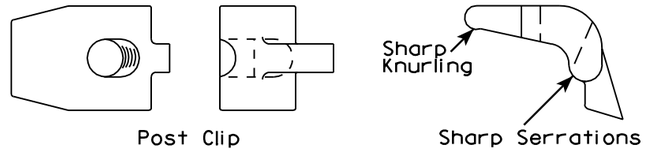
The hardware includes:

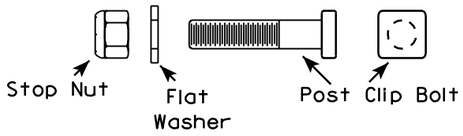
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



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

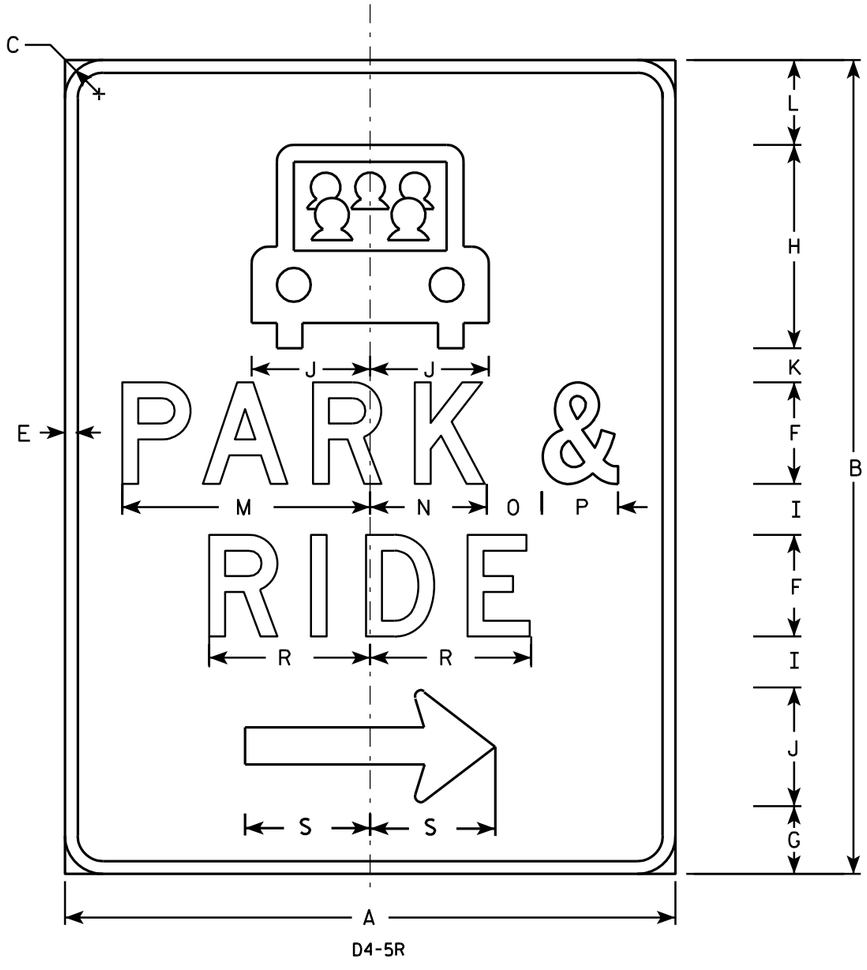
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

DATE 11/18/99 PLATE NO. A5-2.9

PROJECT NO:

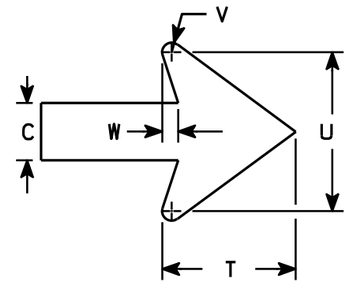
SHEET NO: 506 E



D4-5R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White - Type H Reflective
3. Message Series - 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. The D4-5L is the same as a D4-5R except the arrow 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																											
2	30	36	1 3/8		5/8	5	1 3/8	9	2	5	1 5/8	5	11 3/4	5 1/2	2 3/4	3 3/4		8	6 1/8	4	4 3/8	3/8	1/2				7.50
3	36	48	2 1/4		3/4	6	4	12	3	7	2	5	14 5/8	6 7/8	3 1/4	4 1/2		9 1/2	7 1/2	5 1/4	6 1/4	3/8	5/8				12.0
4																											
5																											

STANDARD SIGN
D4-5 L&R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/15/10 PLATE NO. D4-5.2

PROJECT NO:

SHEET NO: 507 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\D45.DGN PLOT DATE : 15-NOV-2010 14:08 PLOT BY : dotsja

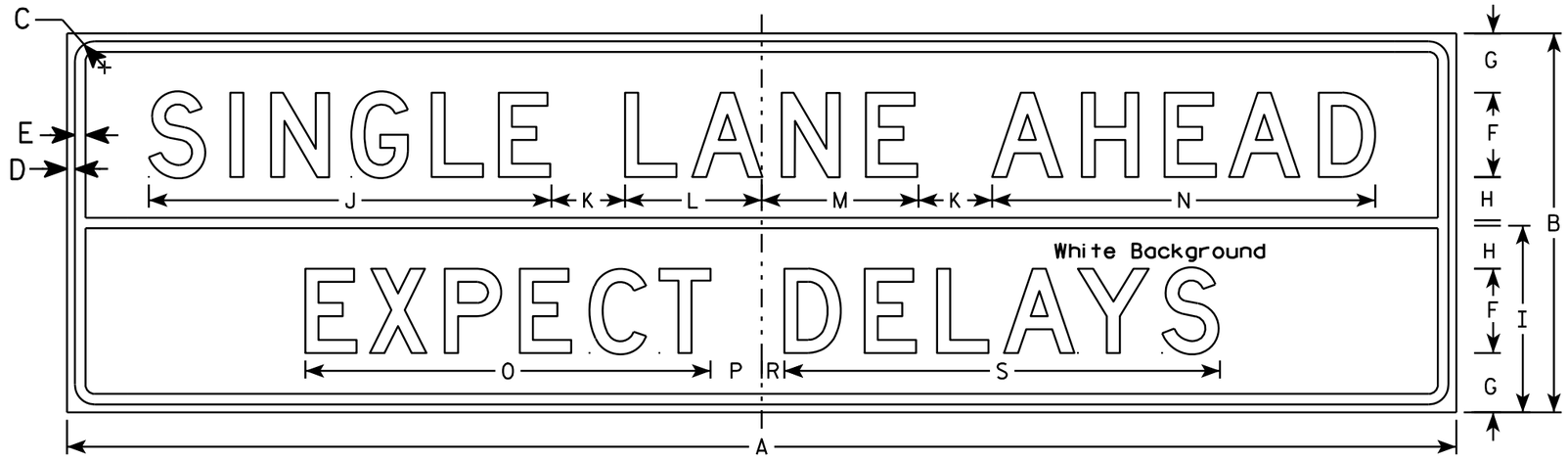
WISDOT/CADDS SHEET 42

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 - Orange except as noted
   Message - Black
3. Message Series - D



G20-56

Metric equivalent for this sign is:

SIZE	
1	
2	
3	
4	3300 mm X 900 mm
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m²
1																												
2																												
3																												
4	132	36	2 1/4	3/4	1	8	5 5/8	4 1/8	17 3/4	38 1/4	7	13	15	36 3/8	38 1/2	5		2	41 3/8								33.0	2.97
5																												

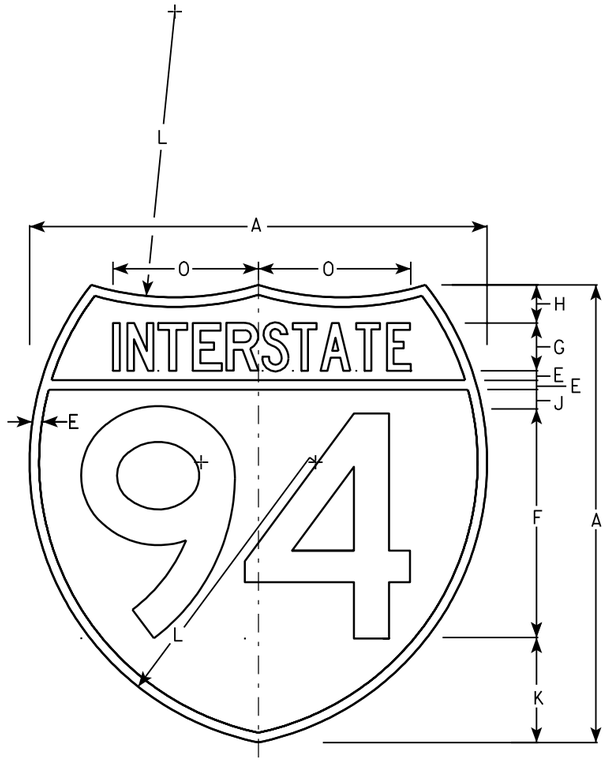
STANDARD SIGN
G20-56

WISCONSIN DEPT OF TRANSPORTATION

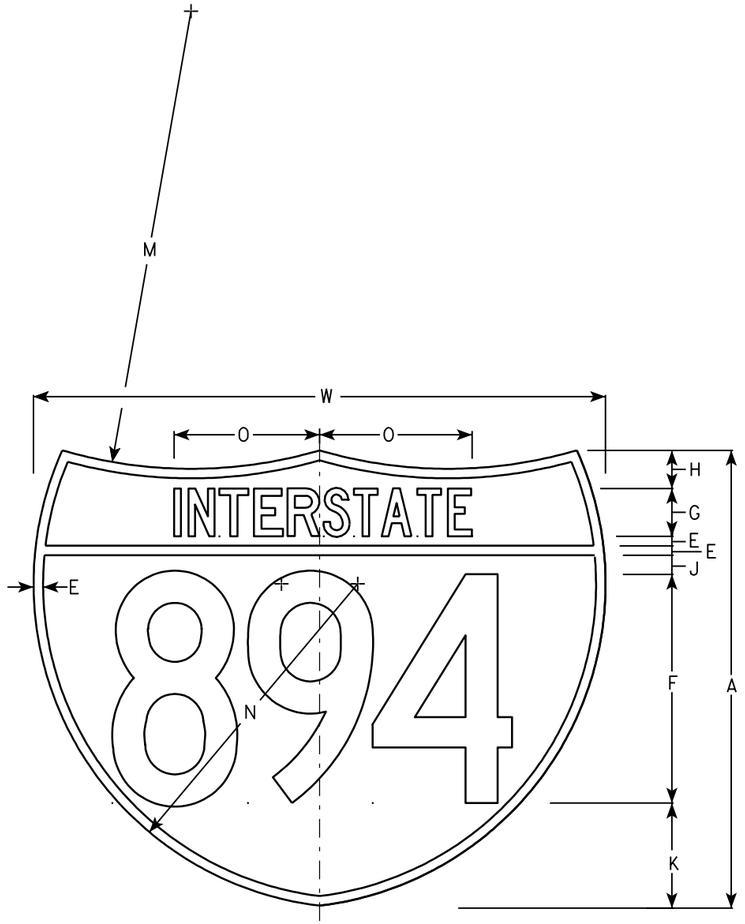
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-56.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 508	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

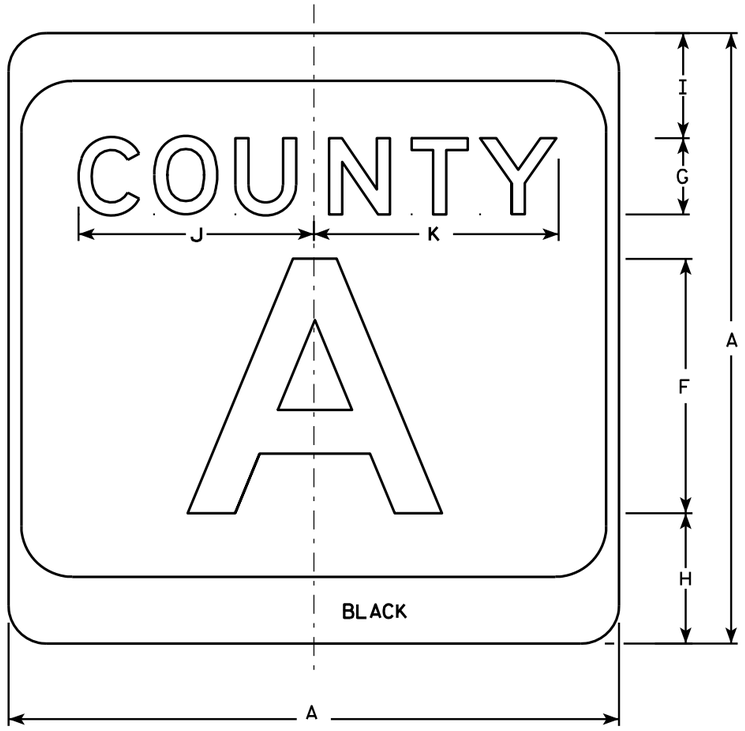
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

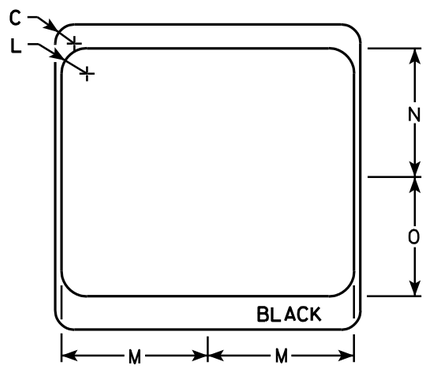
APPROVED Matthew R Rauch
for State Traffic Engineer

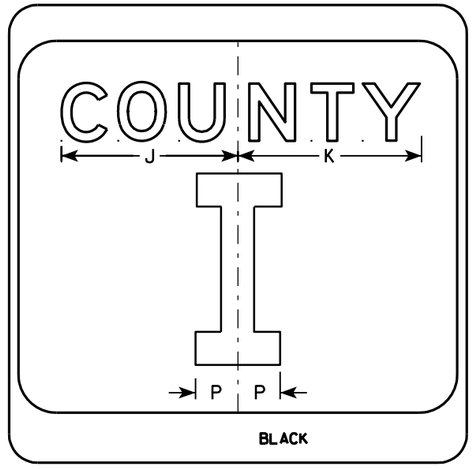
DATE 08/23/05 PLATE NO. M1-1.8

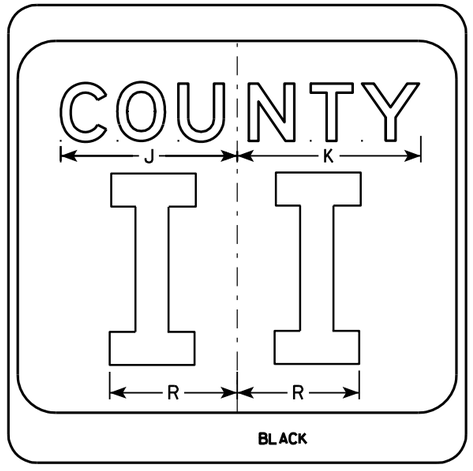
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 509	E



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

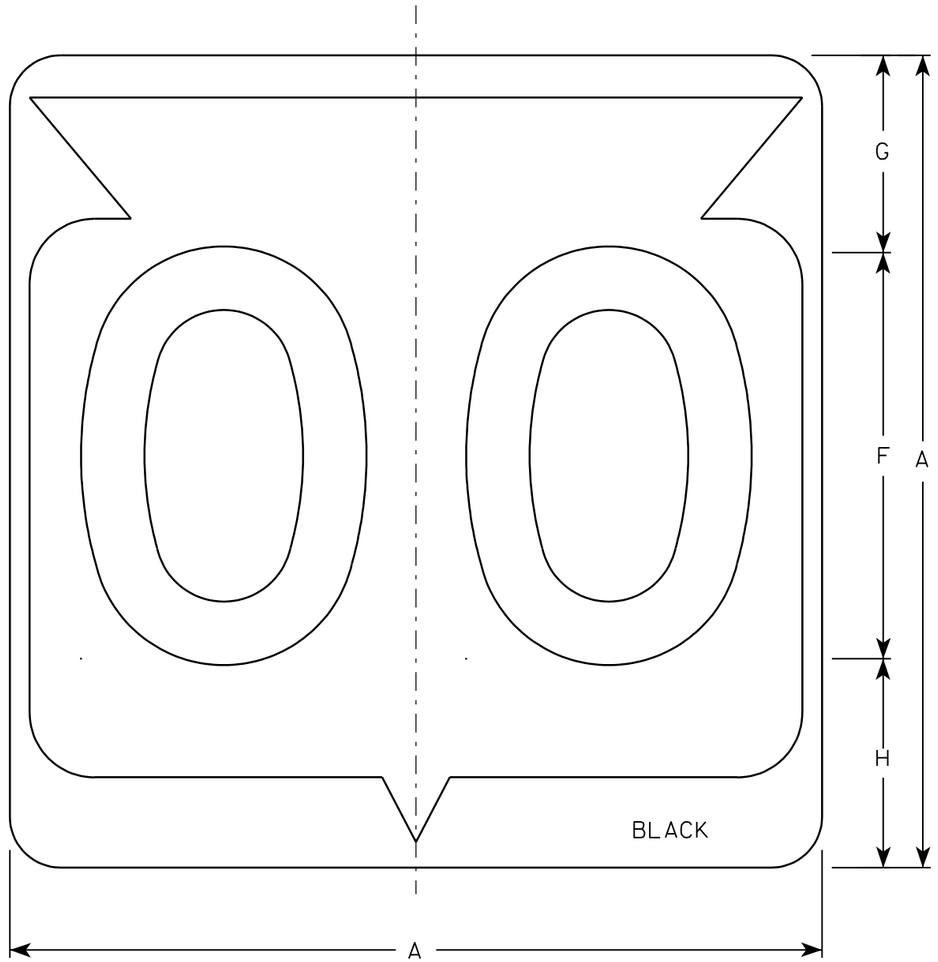
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

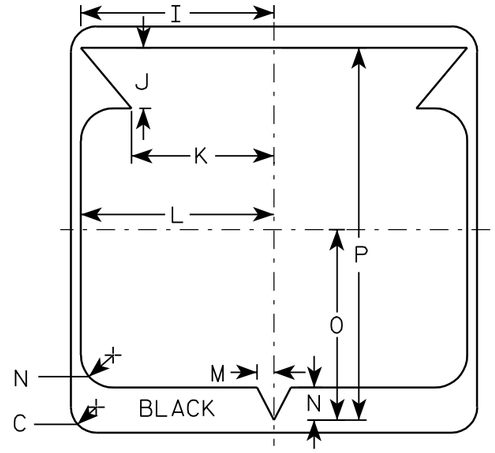
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 510	E



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

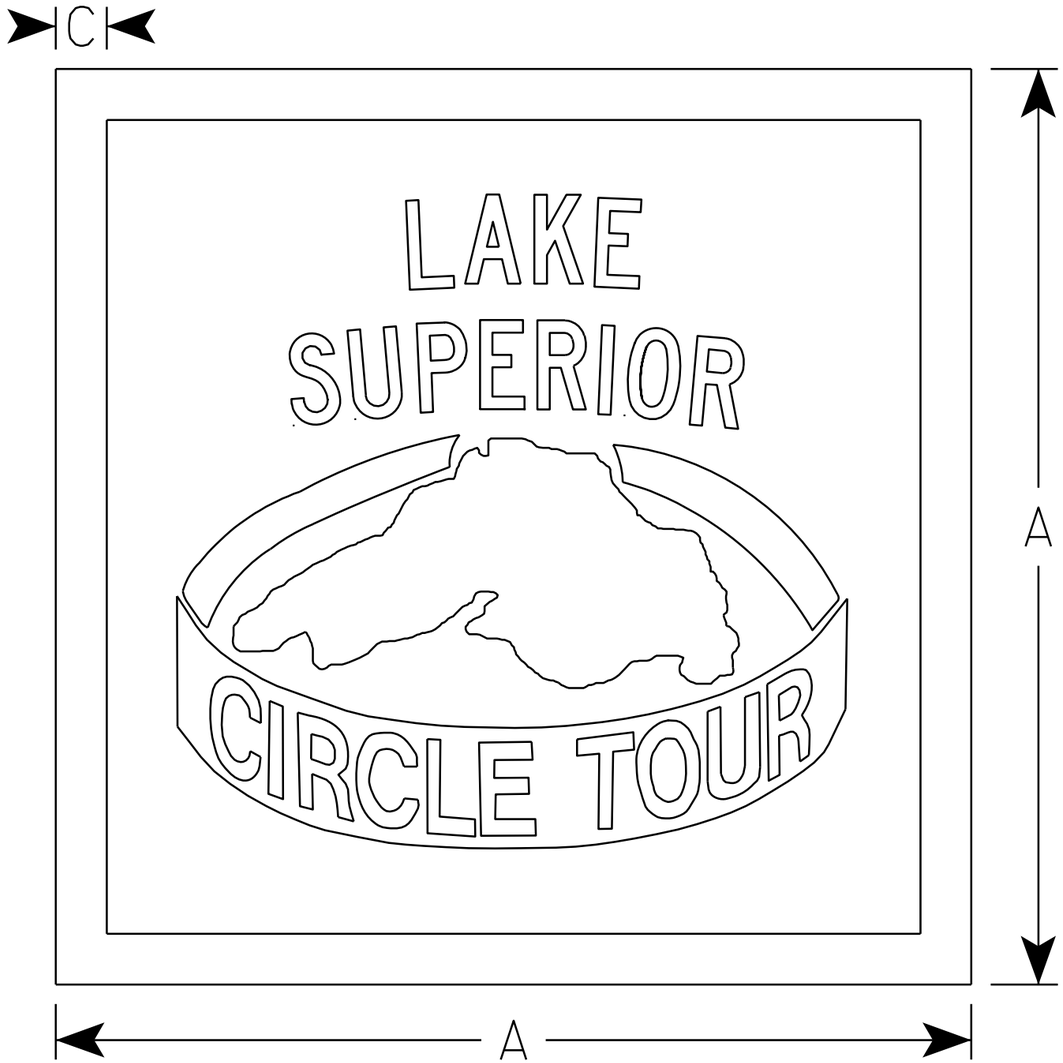
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

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: 511	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 - Green
   Message - White - Graphics - White
   Circle Tour Message is Green
3. Message Series - Special
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.	Area m2
1																												
2	24		1 ½																								4.0	.36
3																												
4	36		2																								9.0	.81
5																												

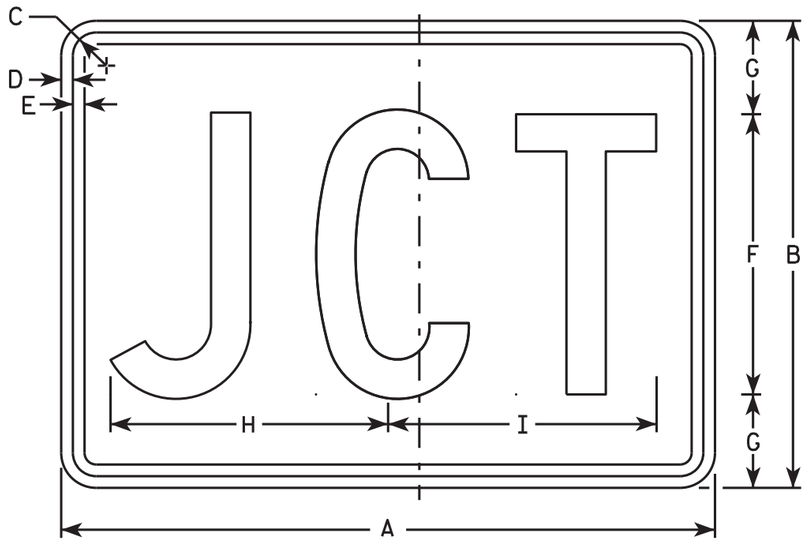
STANDARD SIGN
M1-91

WISCONSIN DEPT OF TRANSPORTATION

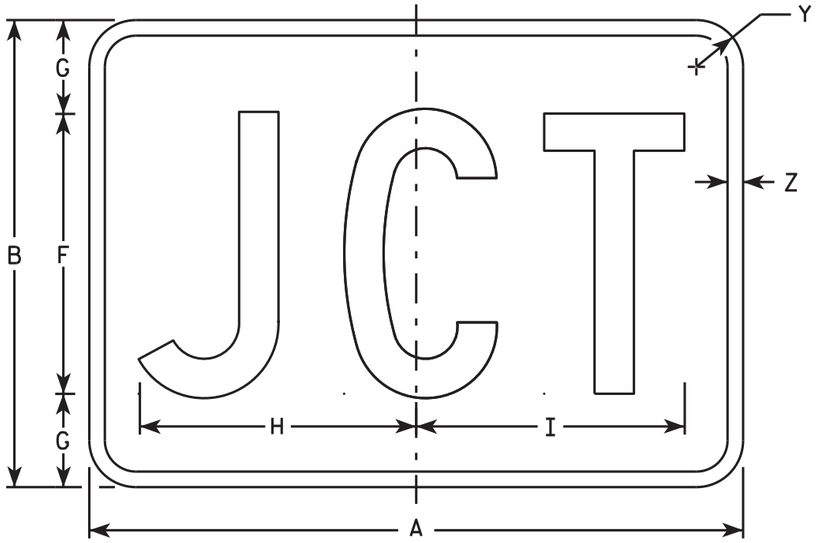
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/05/09 PLATE NO. M1-91.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 512	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

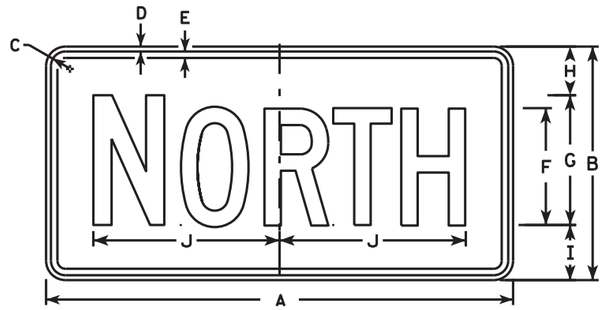
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

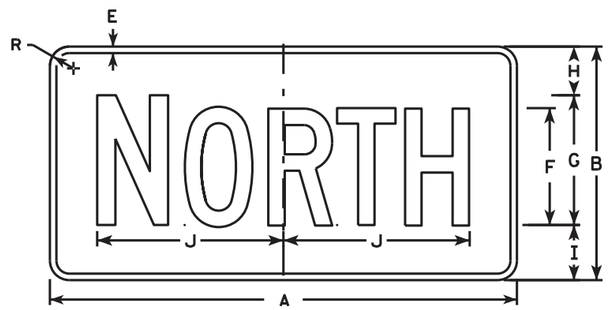
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M2-1.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



M3-1
MM3-1
MP3-1



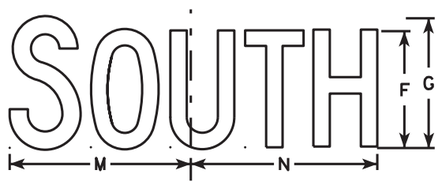
MB3-1
MK3-1
MN3-1



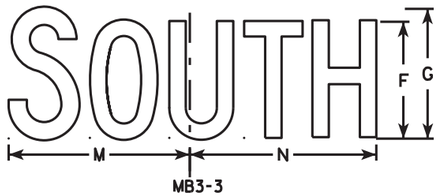
M3-2
MM3-2
MP3-2



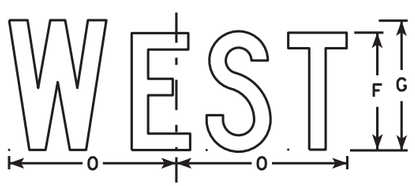
MB3-2
MK3-2
MN3-2



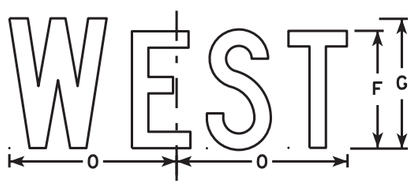
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
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

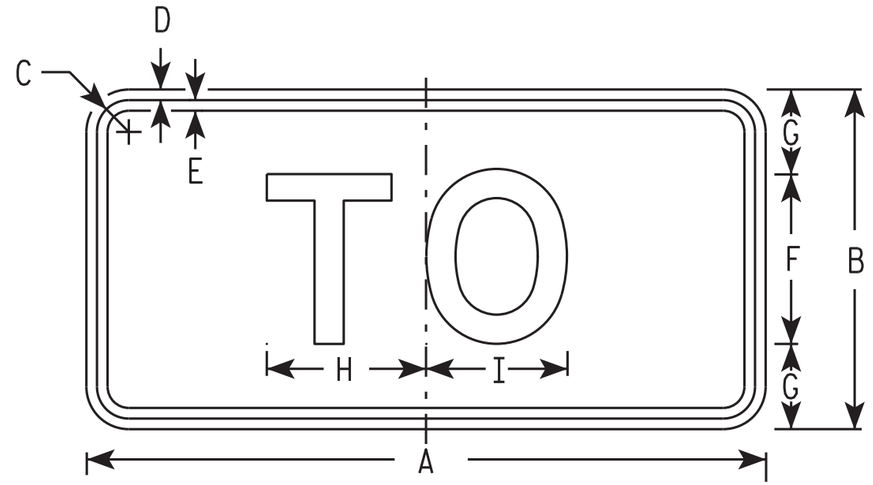
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

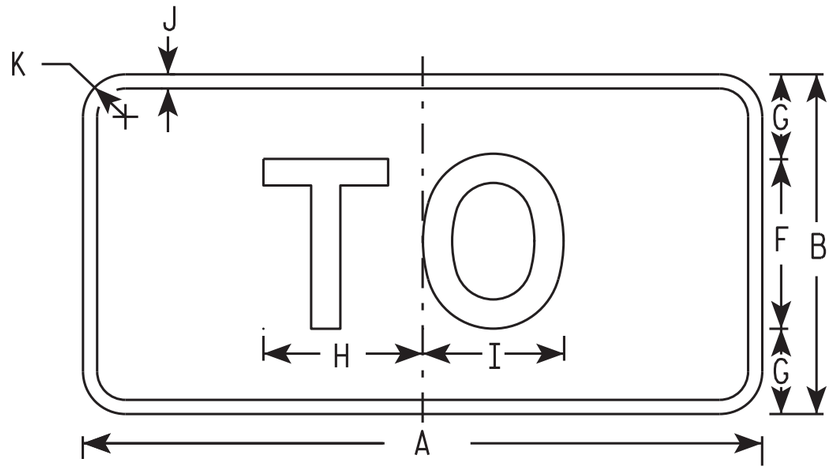
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO. M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



M4-5
MM4-5
MP4-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

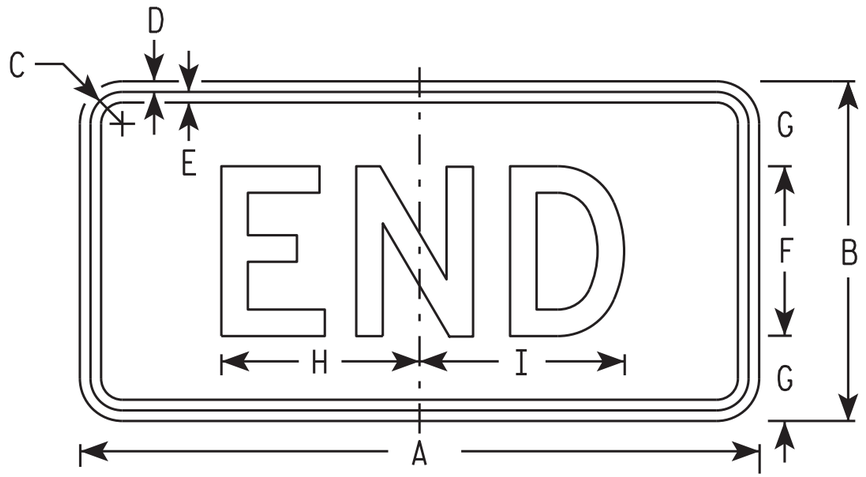
STANDARD SIGN
M4-5

WISCONSIN DEPT OF TRANSPORTATION

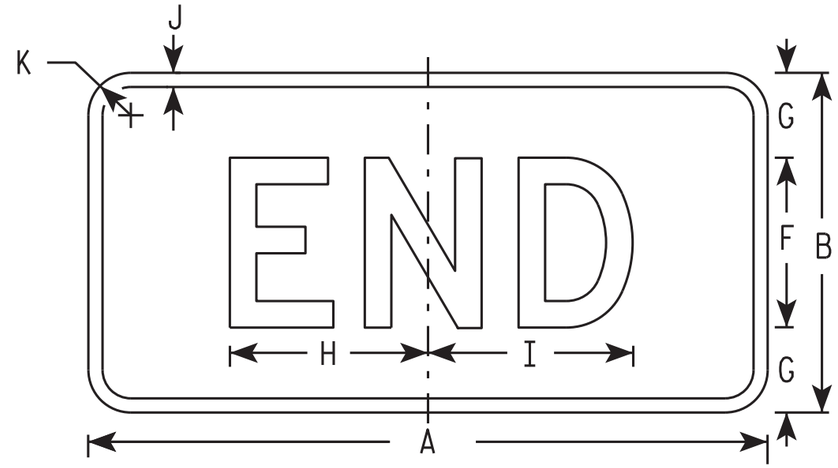
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-5.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
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
   Message - Black

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	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

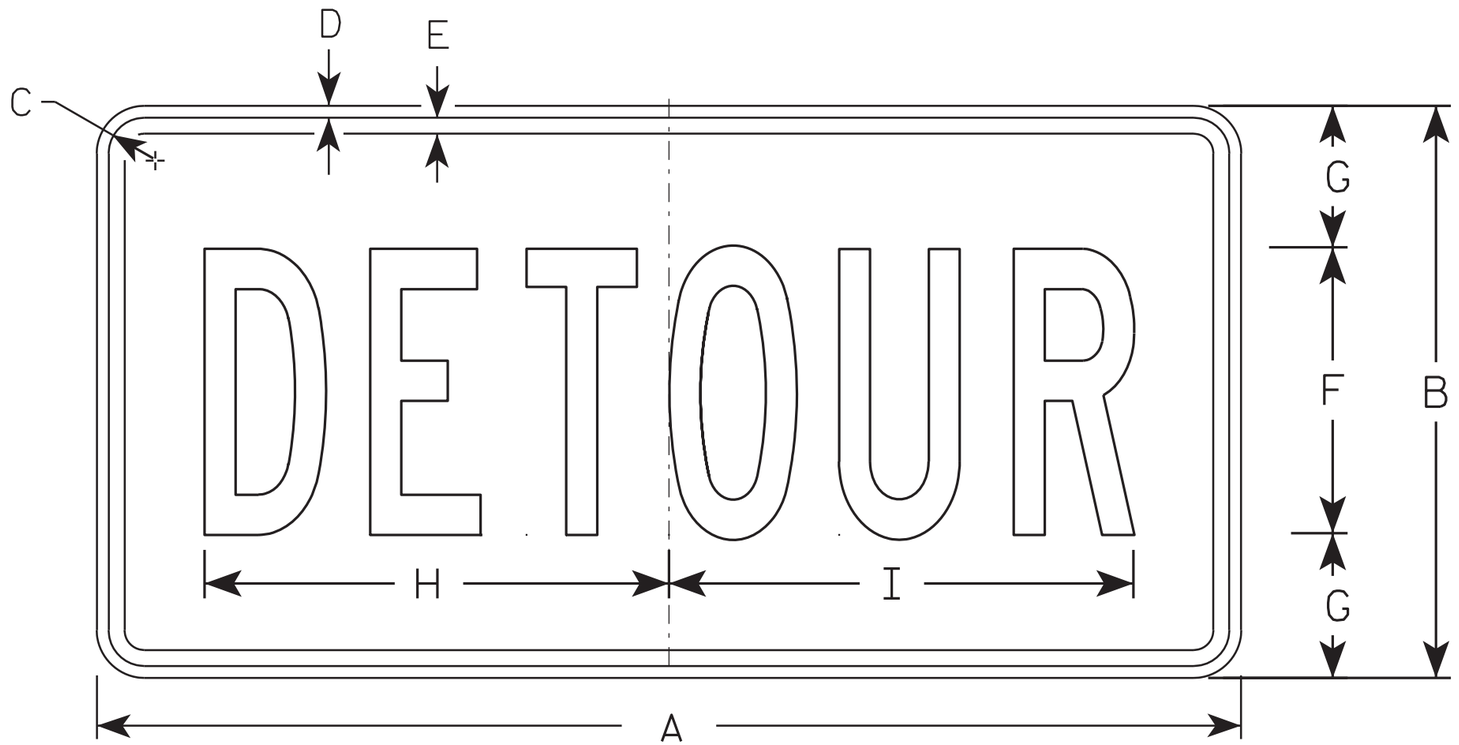
STANDARD SIGN
M4-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M4-7.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

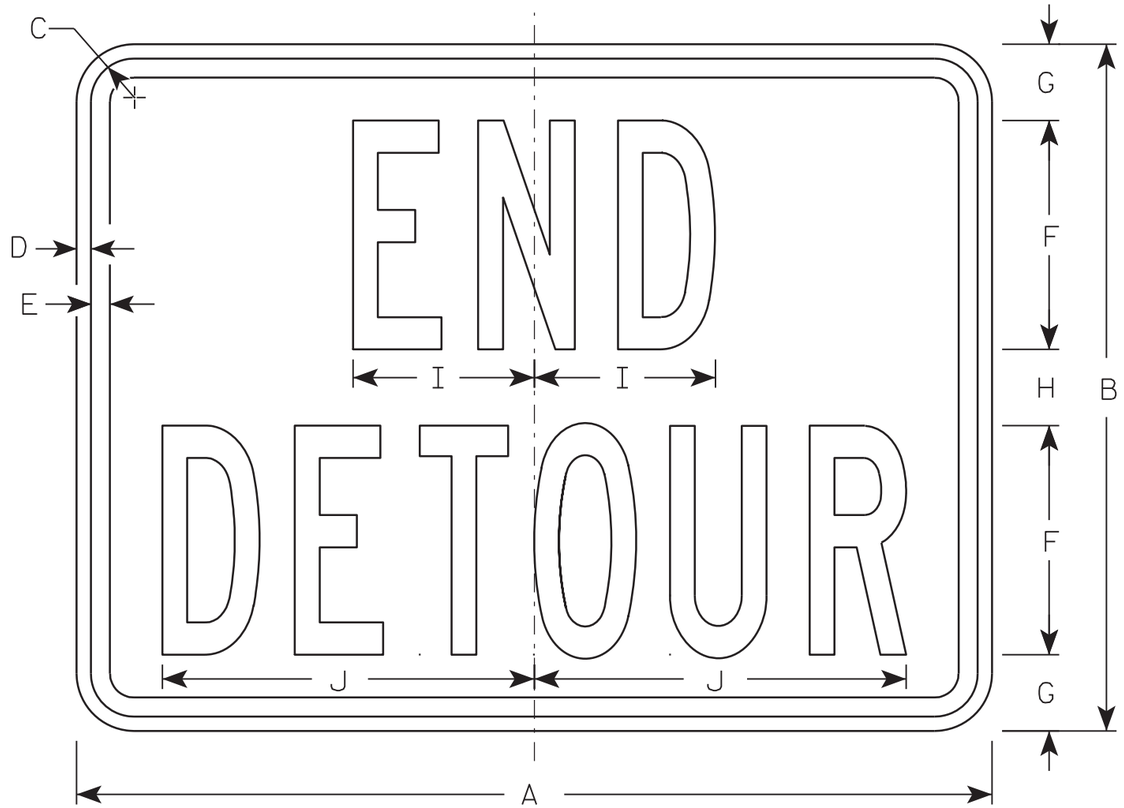
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 517	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

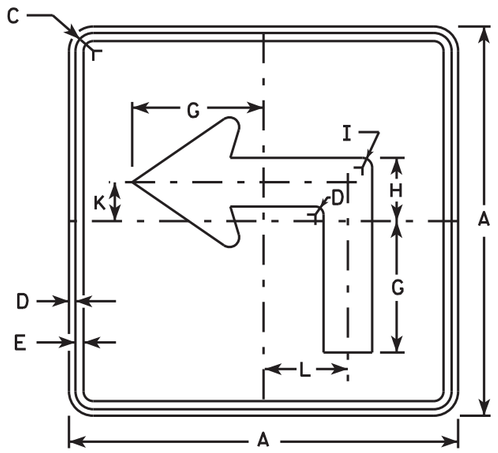
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

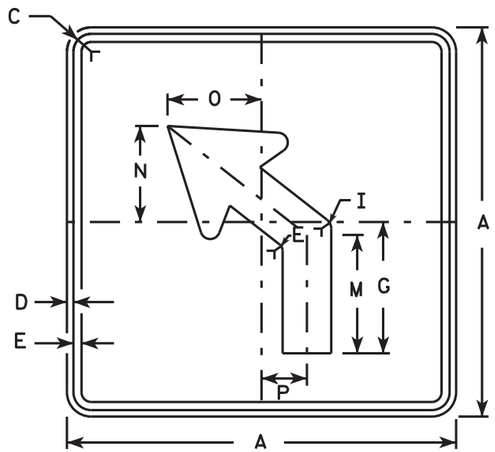
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

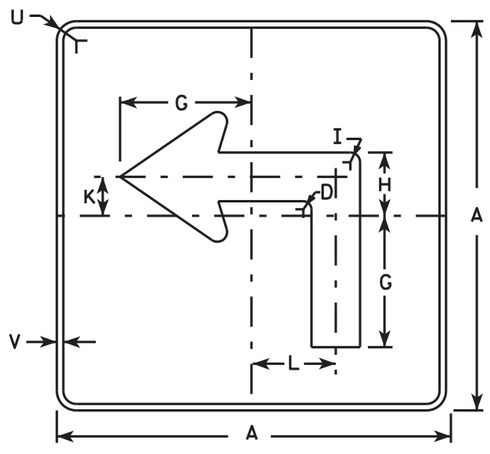
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 518	E



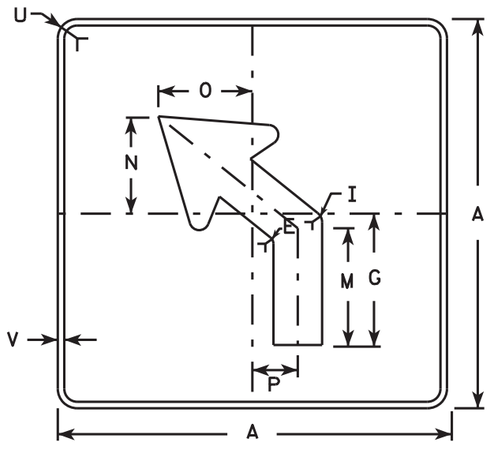
M5-1L
MM5-1L
MO5-1L
MP5-1L



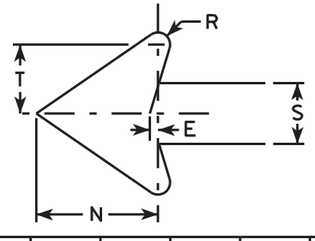
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   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
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 7/8	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 7/8	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 7/8	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

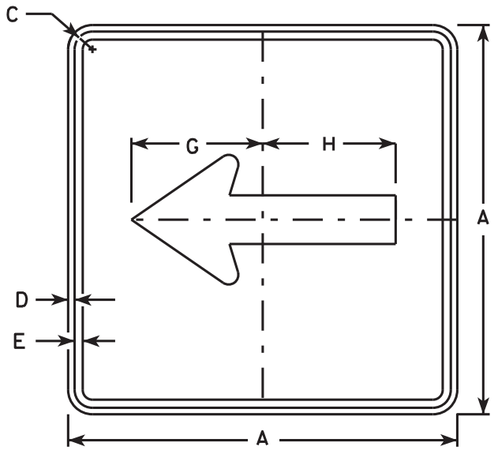
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

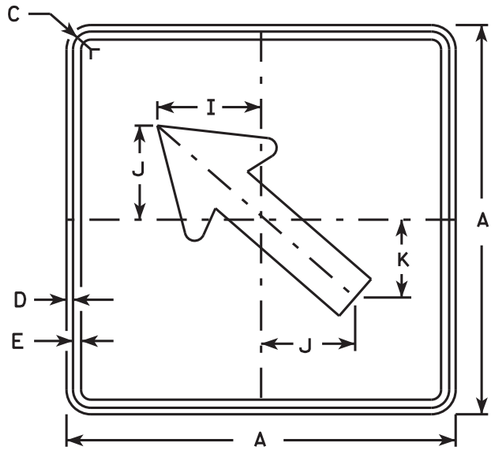
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



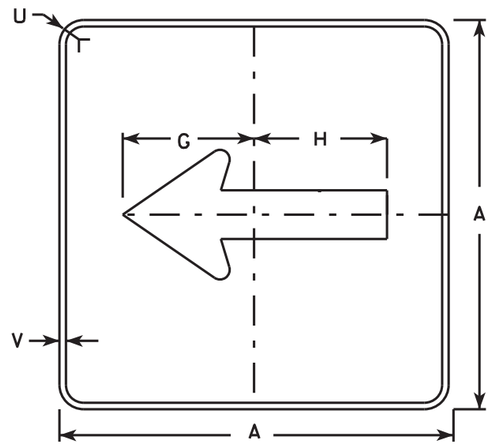
M6-1
MM6-1
MO6-1
MP6-1



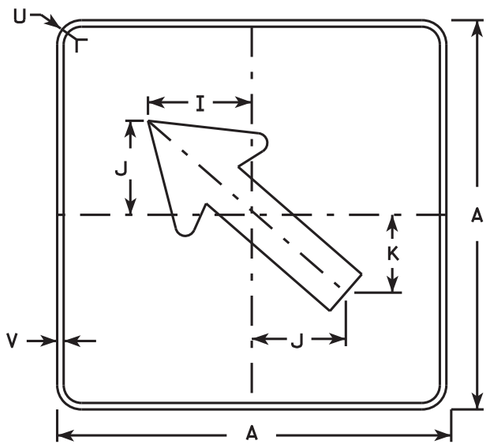
M6-2
MM6-2
MO6-2
MP6-2

NOTES

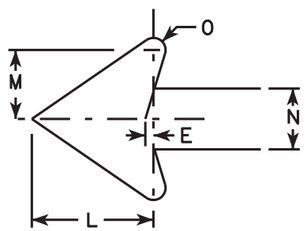
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

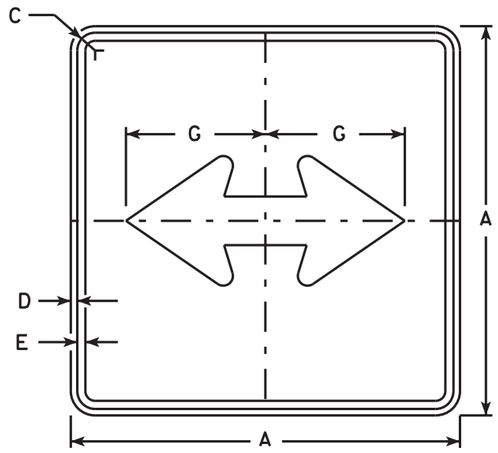
STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

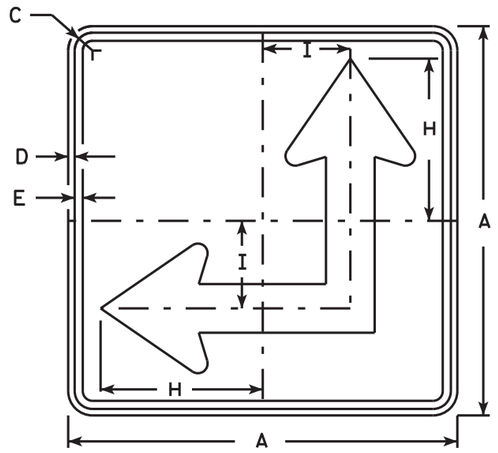
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15

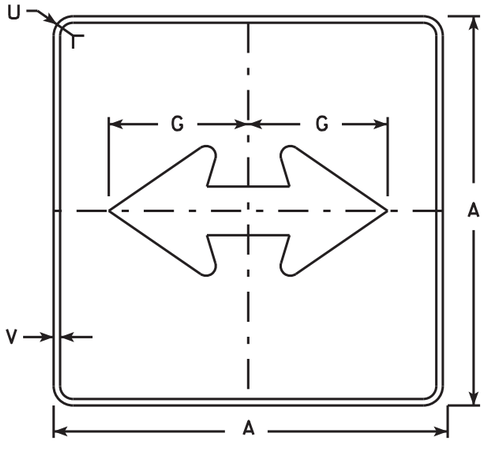
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



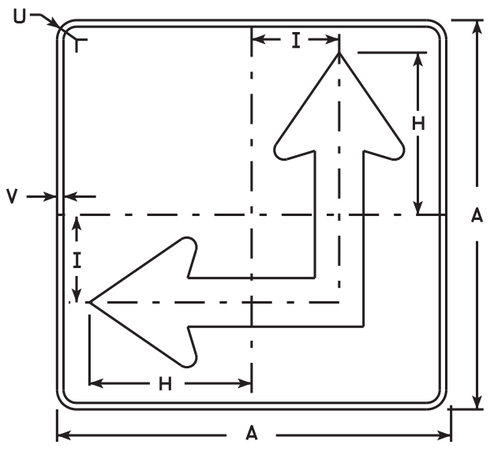
M6-4
MM6-4
MO6-4
MP6-4



M6-6
MM6-6
MO6-6
MP6-6



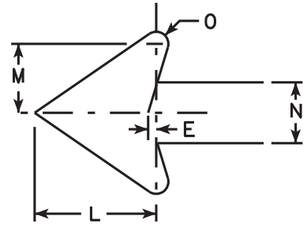
MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6

NOTES

1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
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

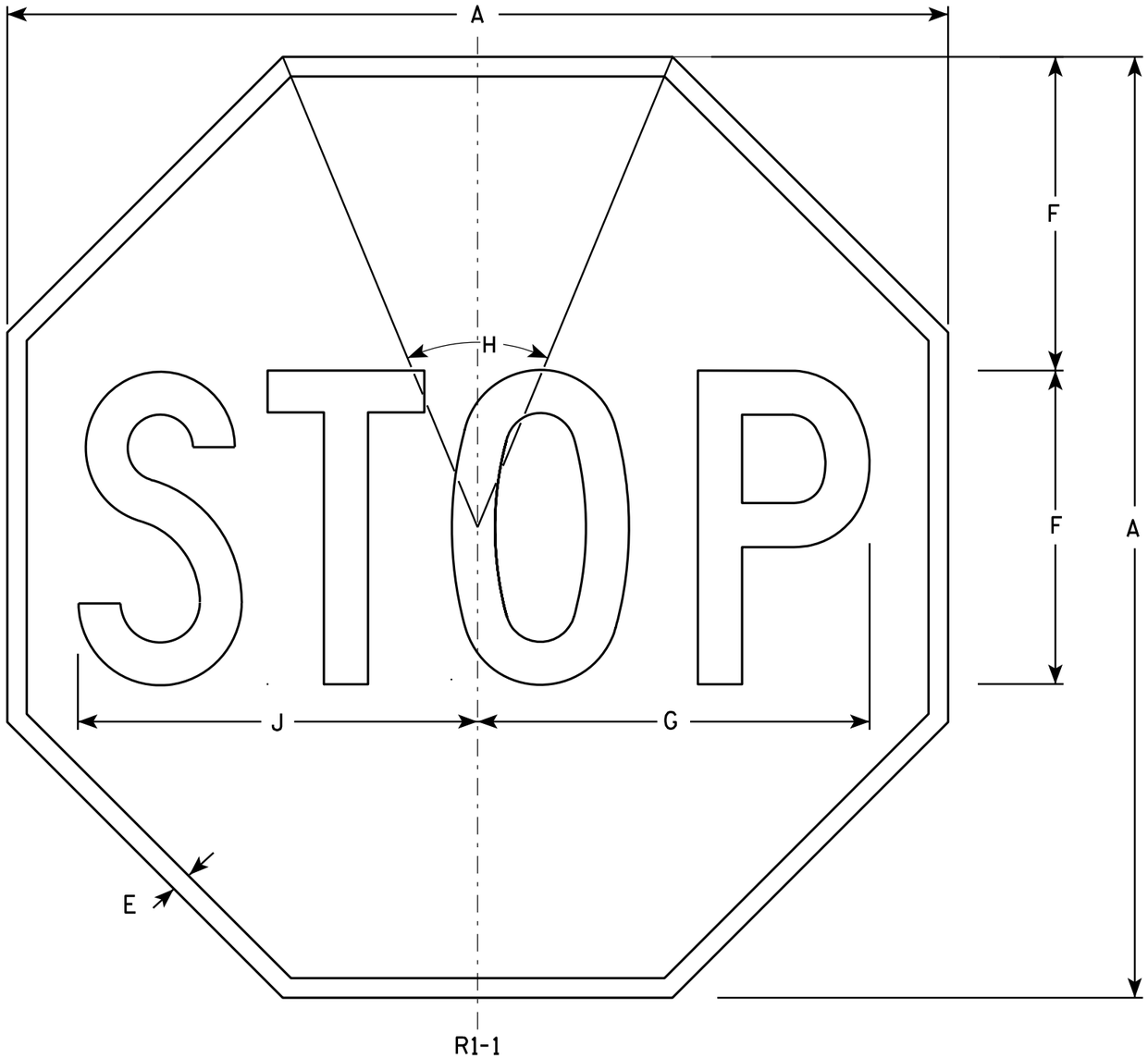
STANDARD SIGN
M6-4 & M6-6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-4.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

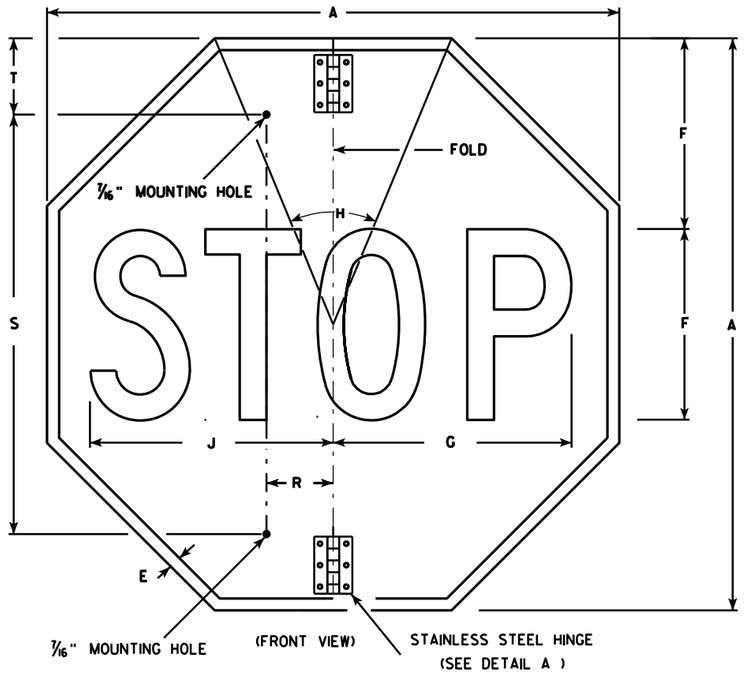
STANDARD SIGN
R1-1

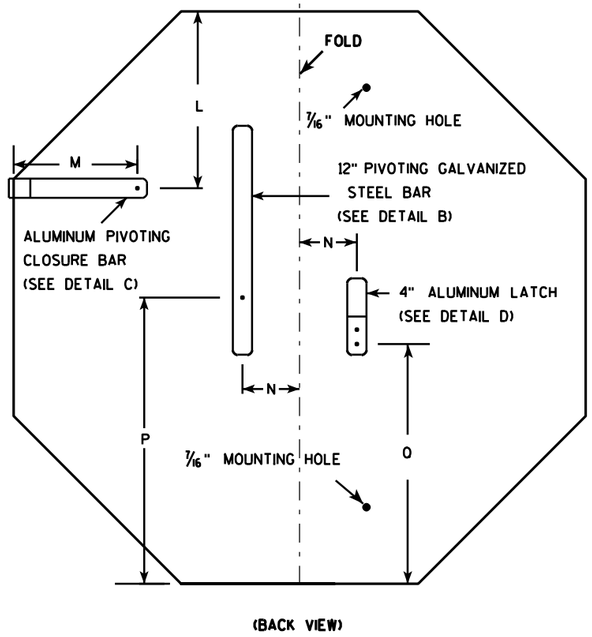
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

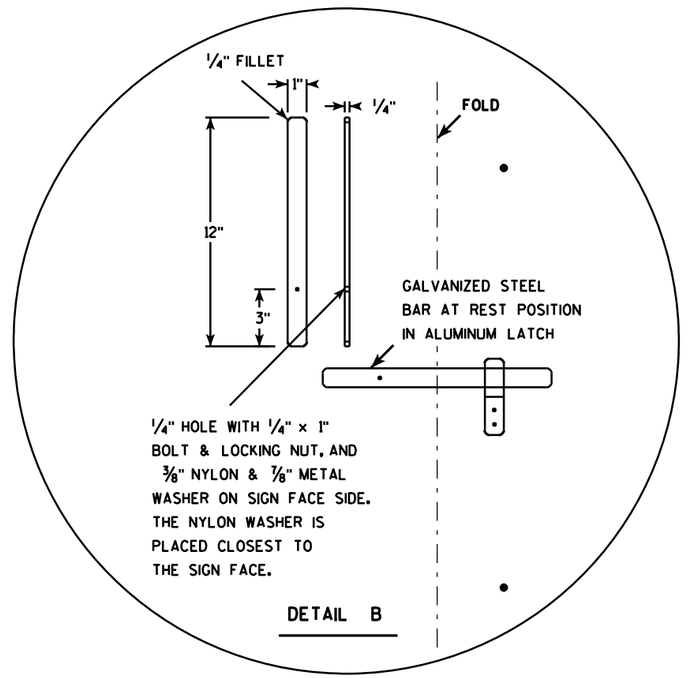
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 522	E

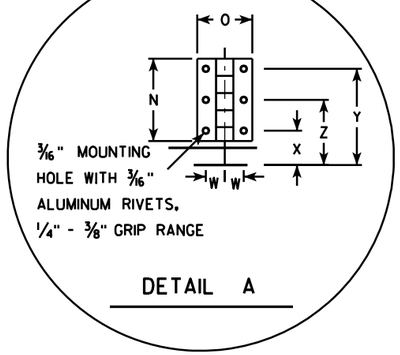


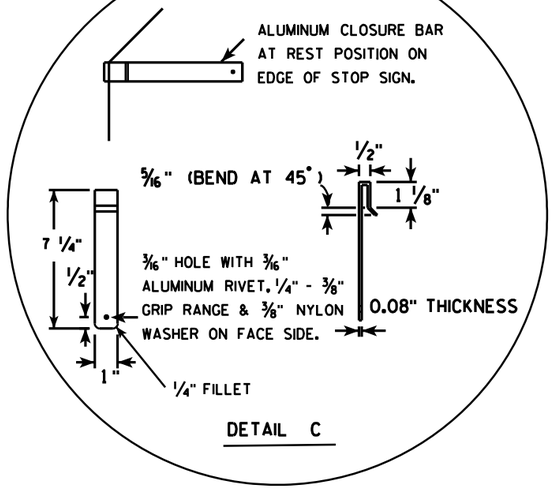


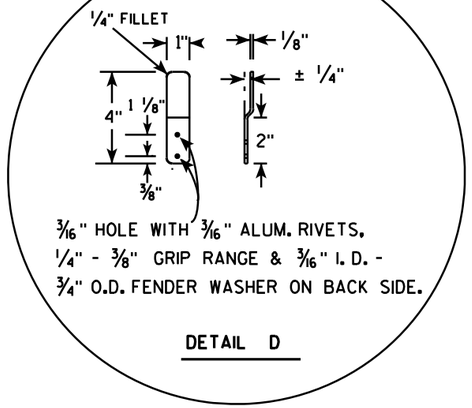
NOTES

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.









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																											

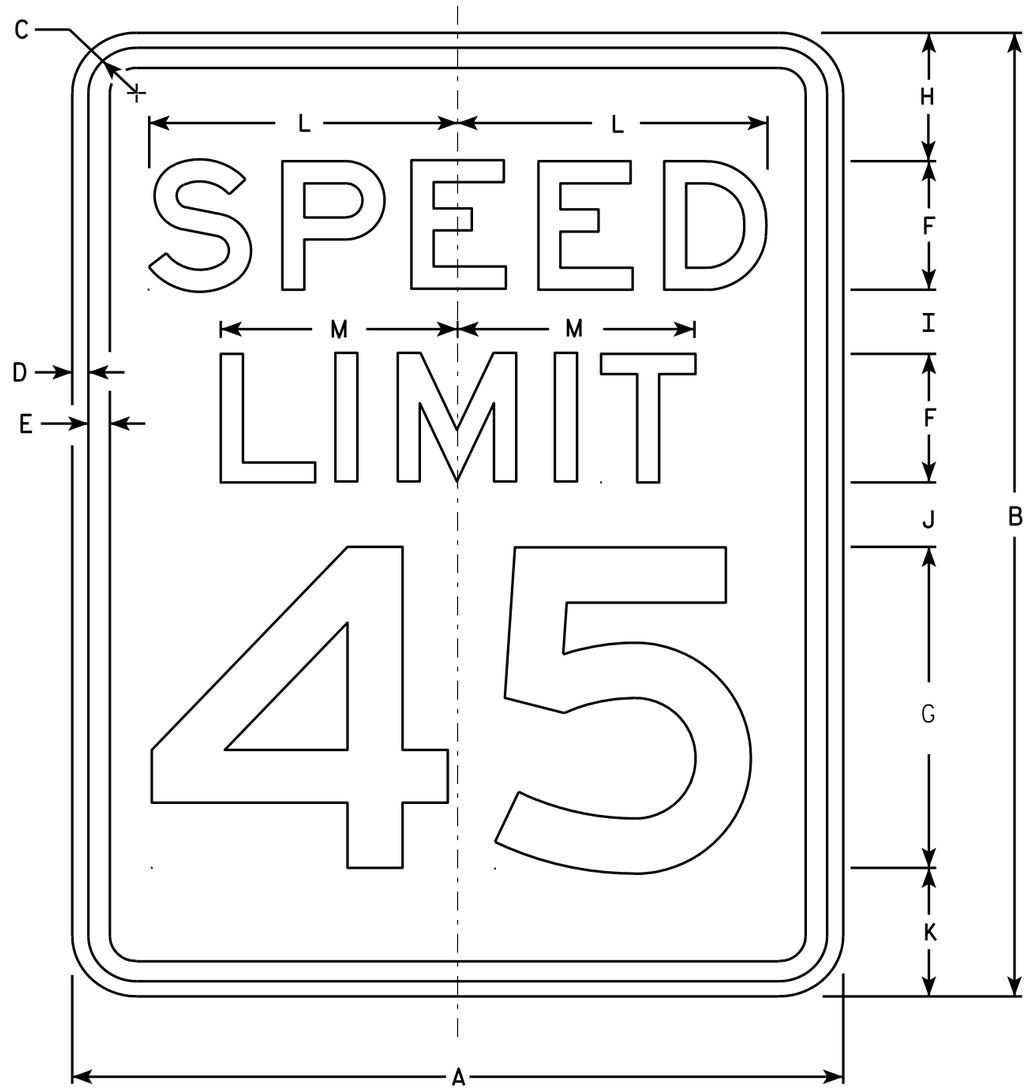
STANDARD SIGN
R1-1F

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: 523	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

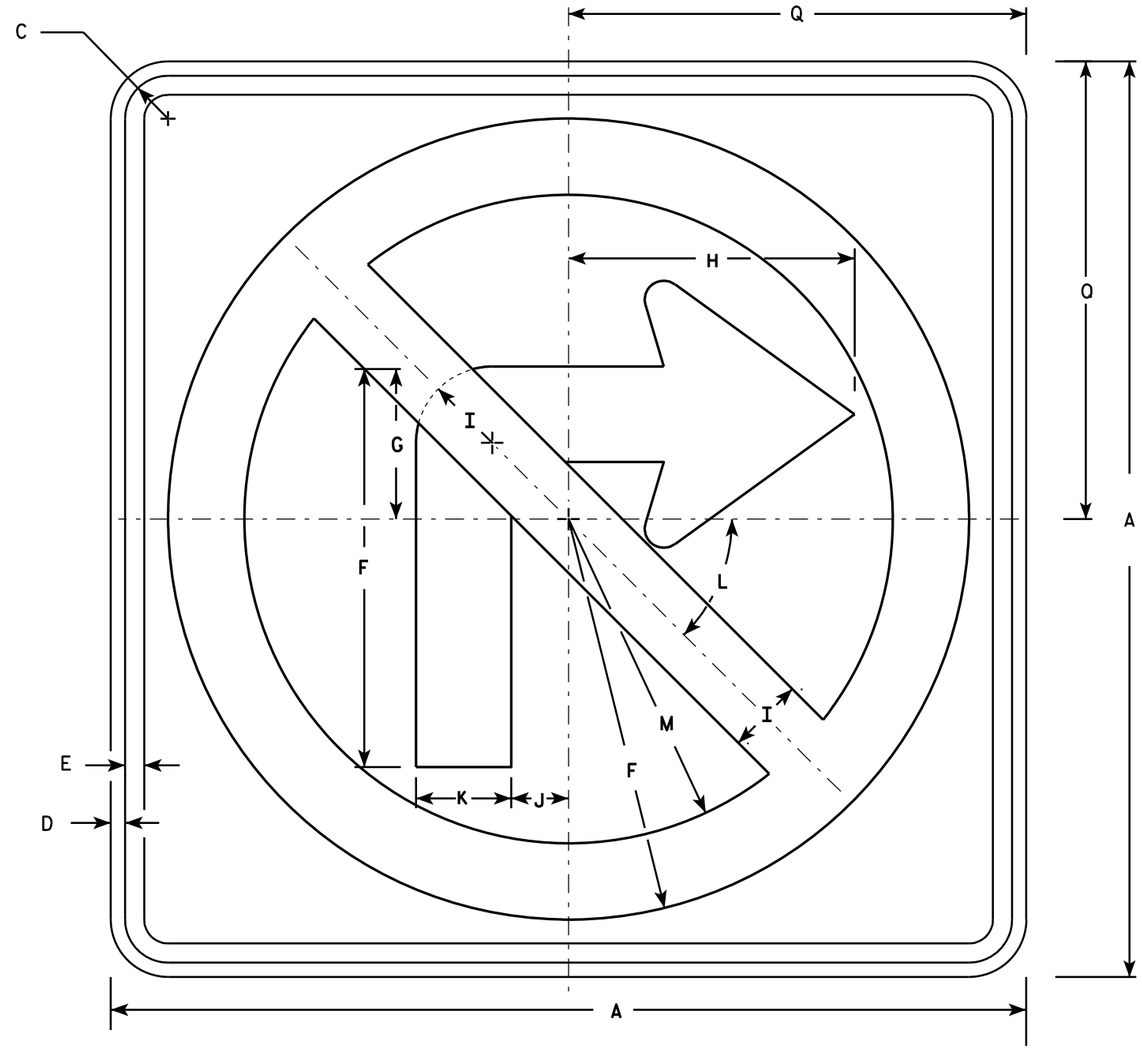
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 524 | E

7

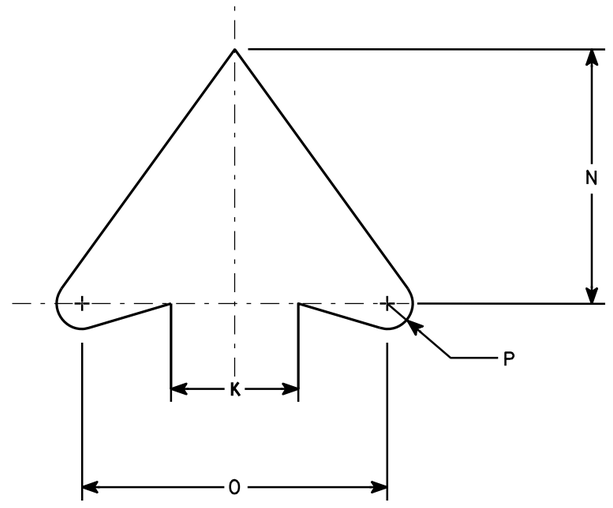
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000
WISDOT/CADDS SHEET 42



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

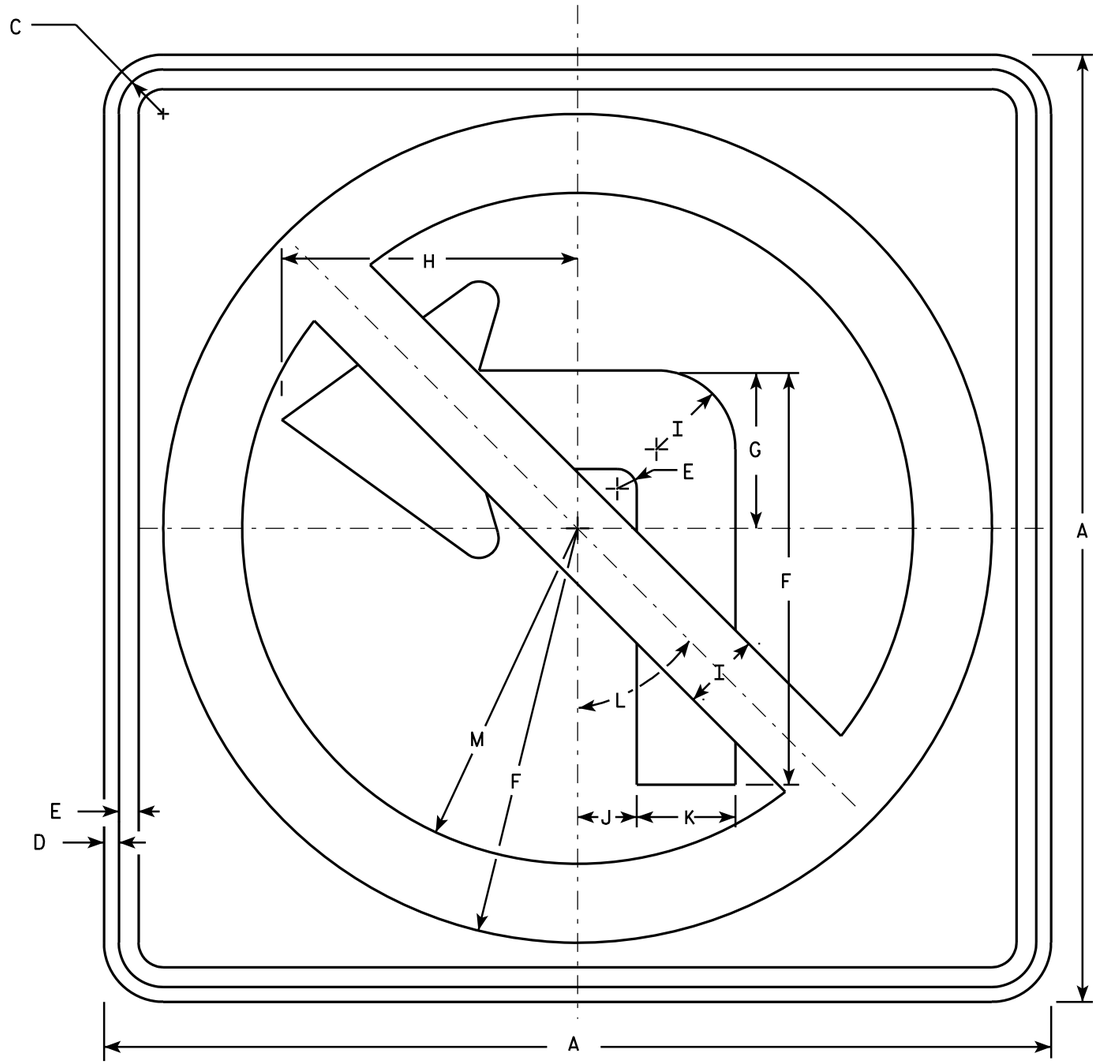
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

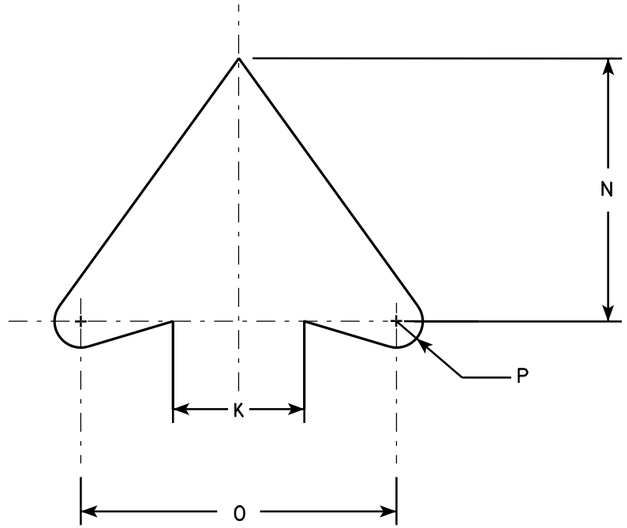
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 525	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

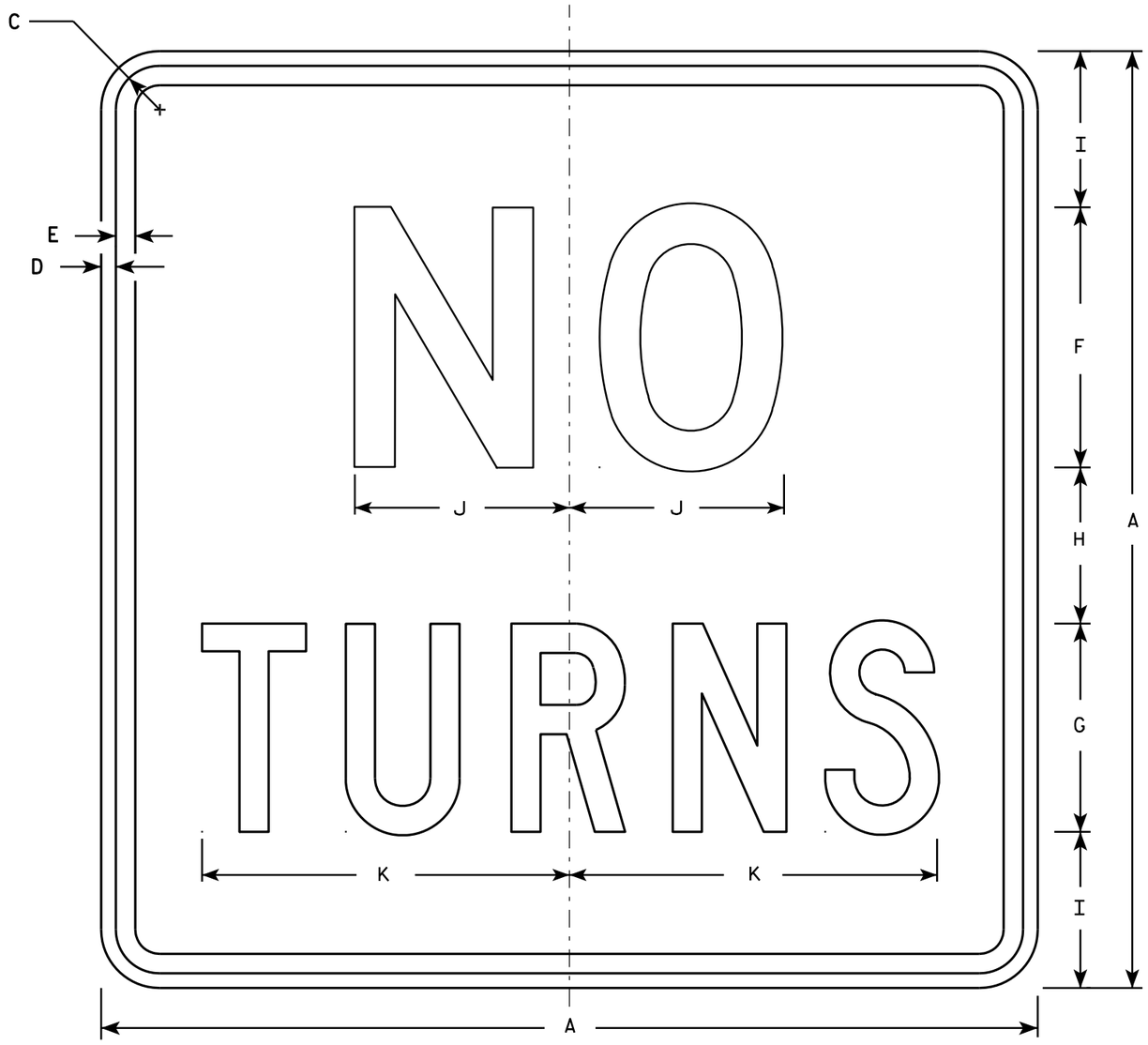
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 526	E



R3-3

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 - 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 and Line 2 is 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																											
2S	24		1 1/8	3/8	1/2	6	5	4	4 1/2	5 1/8	8 3/4																4.0
2M	36		1 5/8	5/8	3/4	10	8	6	6	8 1/4	14 1/8																9.0
3	36		1 5/8	5/8	3/4	10	8	6	6	8 1/4	14 1/8																9.0
4	36		1 5/8	5/8	3/4	10	8	6	6	8 1/4	14 1/8																9.0
5	48		2 1/4	3/4	1	12	10	8	9	10 1/4	17 5/8																16.0

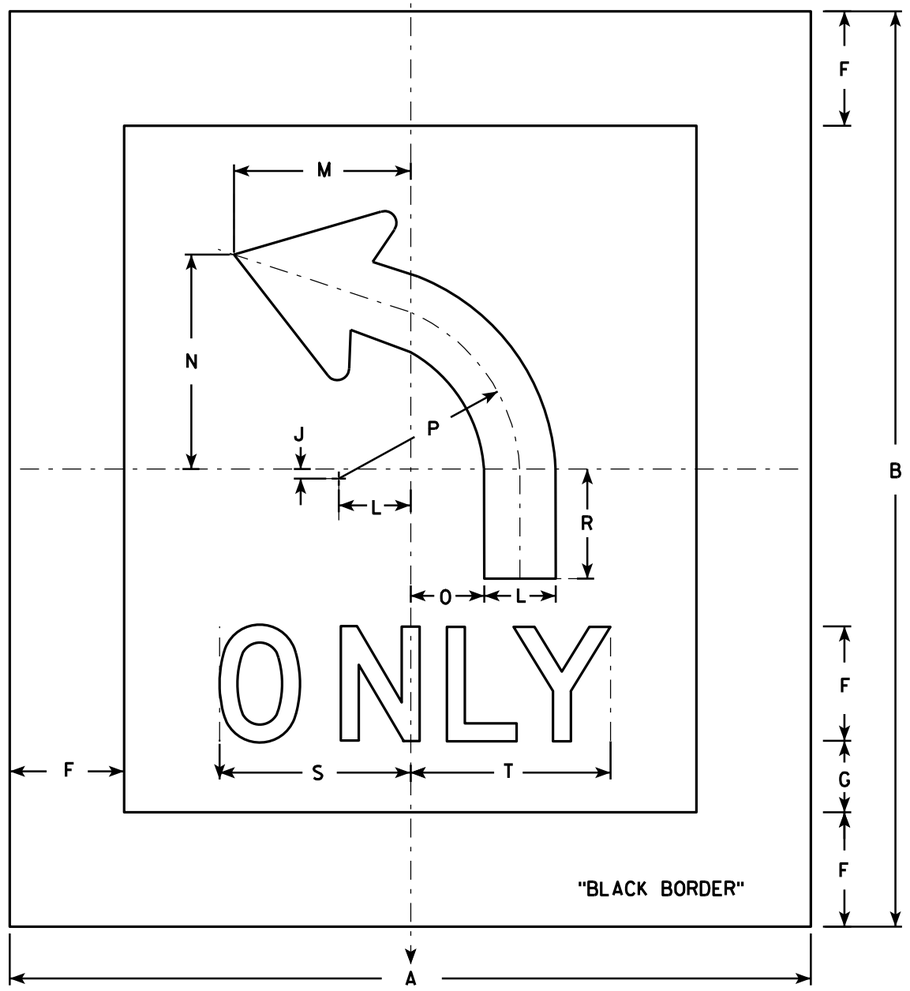
STANDARD SIGN
R3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-3.10

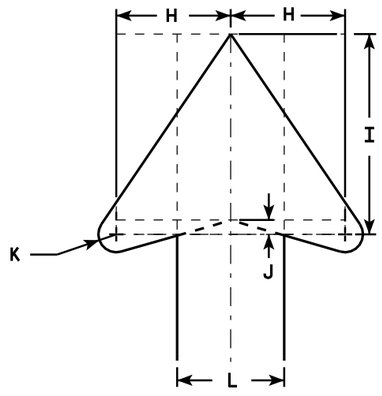
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 527 | E



R3-5L

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. When base material is metal, the corners shall be rounded.
5. R3-5R is the same as R3-5L except curved portion of arrow points right.
6. The 6" border is non-reflective black.



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	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

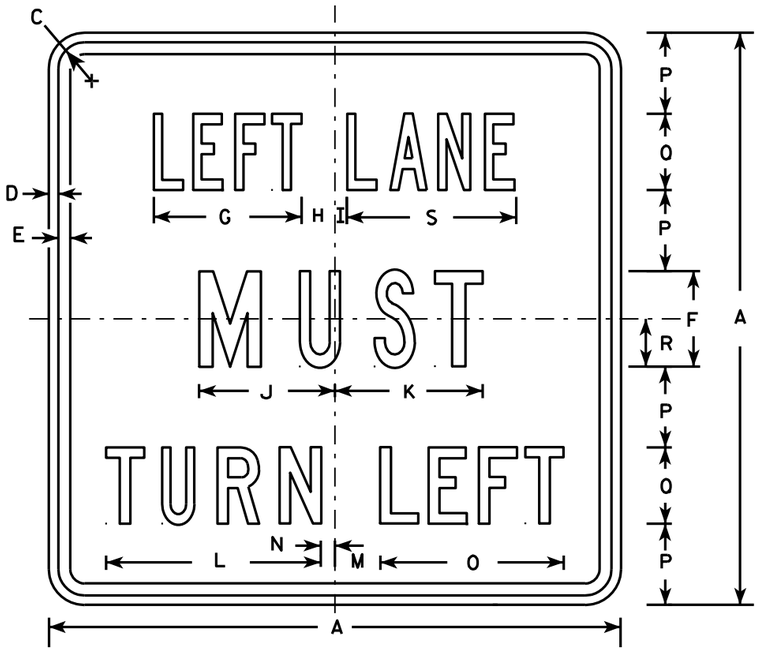
STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

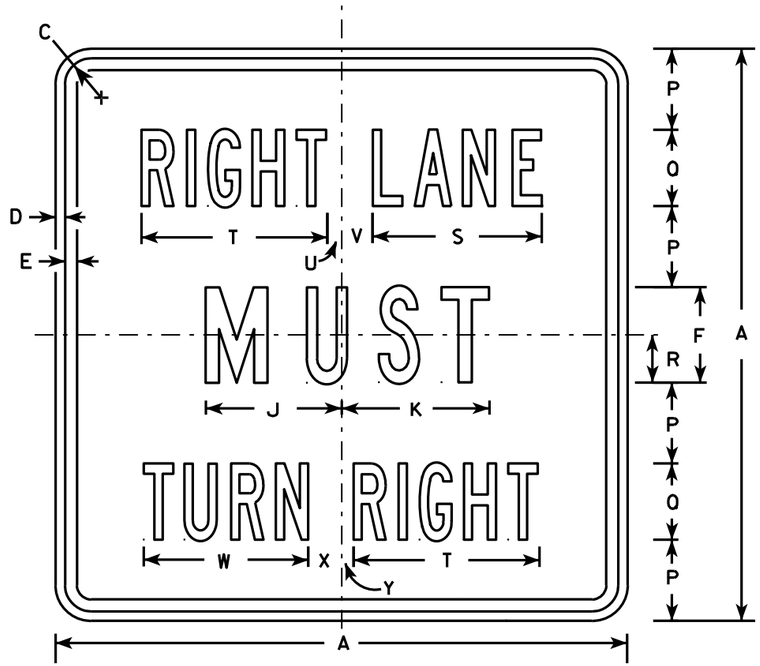
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 528 | 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																											

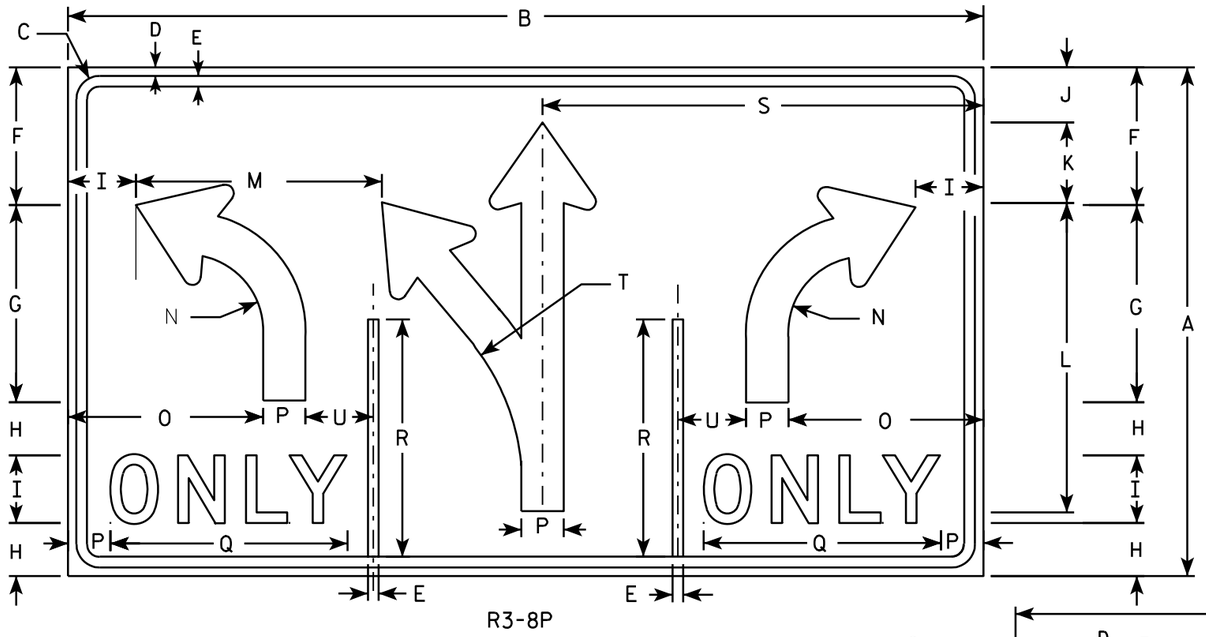
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

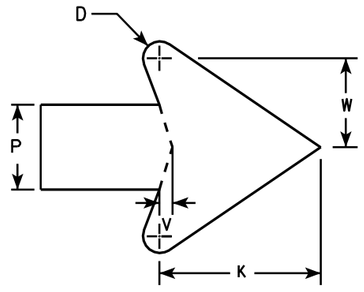
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 529 | E



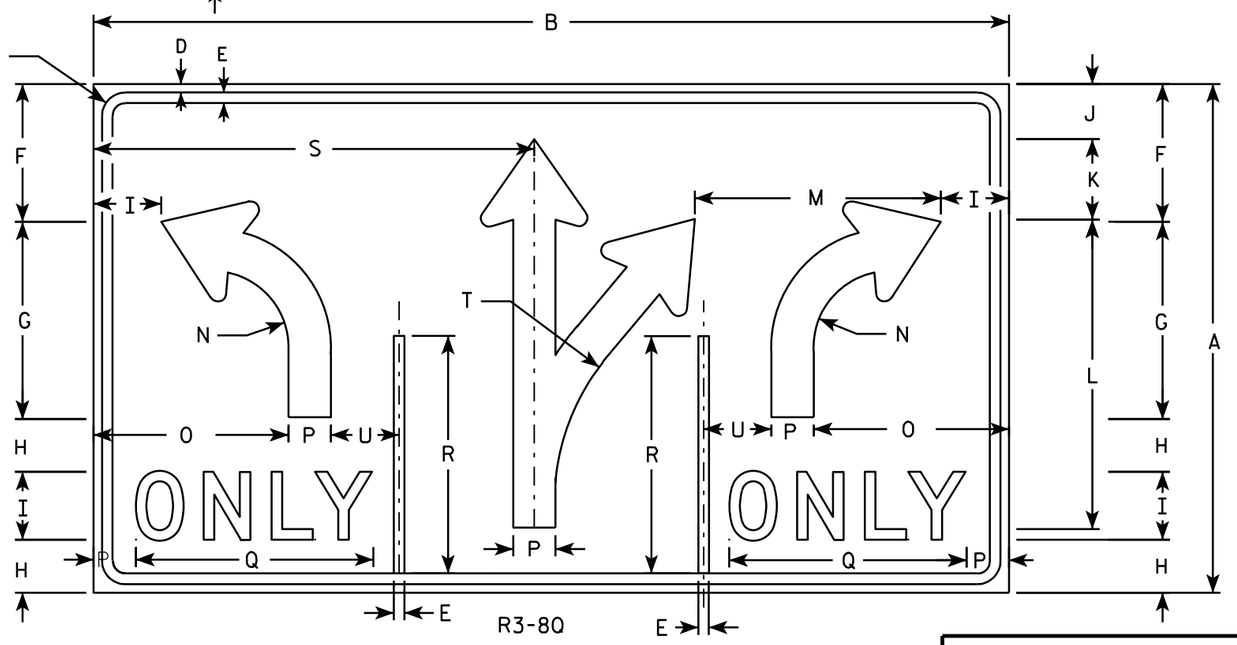
R3-8P

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



R3-8Q

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	54	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	14 1/2	4 1/2	11 1/2	2 1/2	14	14	26	13 1/4	4	3/8	2 5/8				11.25
2M	30	54	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	14 1/2	4 1/2	11 1/2	2 1/2	14	14	26	13 1/4	4	3/8	2 5/8				11.25
3																											
4	48	84	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	22 5/8	7 1/4	17 1/4	3 3/4	20 5/8	22 3/8	40 3/4	21 7/8	7	5/8	4				28.0
5	48	84	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	22 5/8	7 1/4	17 1/4	3 3/4	20 5/8	22 3/8	40 3/4	21 7/8	7	5/8	4				28.0

STANDARD SIGN
R3-8P & R3-8Q

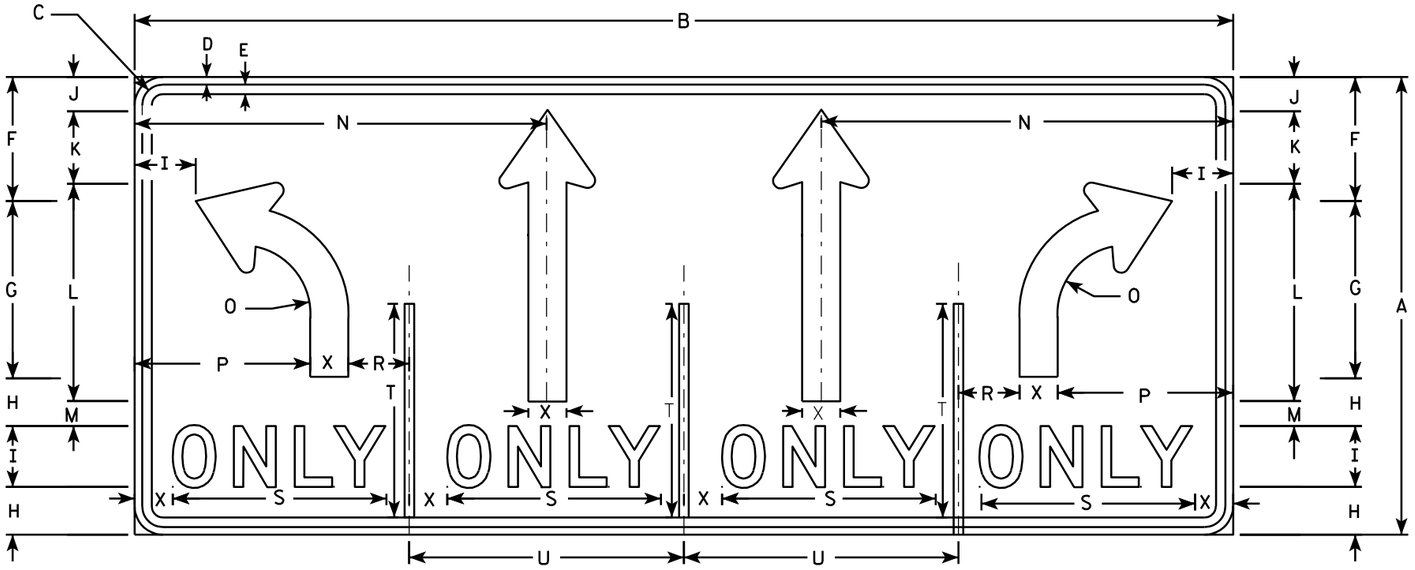
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8P.2

PROJECT NO:

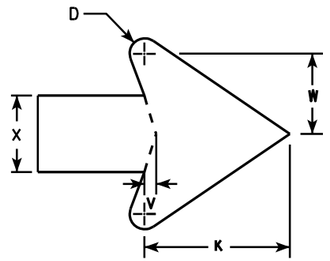
SHEET NO: 530 E



R3-8V

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	72	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	27	4 1/2	11 1/2		4	14	14	18	3/8	2 5/8	2 1/2			15.0
2M	30	72	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	27	4 1/2	11 1/2		4	14	14	18	3/8	2 5/8	2 1/2			15.0
3																											
4	48	108	2 1/4	3/4	1	14 3/8	17 1/4	5 3/8	6	5 3/8	7 1/8	21 1/2	3	40 1/2	7 1/4	17 1/4		6	20 5/8	22 3/8	27	5/8	4	3 3/4			36.0
5	48	108	2 1/4	3/4	1	14 3/8	17 1/4	5 3/8	6	5 3/8	7 1/8	21 1/2	3	40 1/2	7 1/4	17 1/4		6	20 5/8	22 3/8	27	5/8	4	3 3/4			36.0

STANDARD SIGN
R3-8V

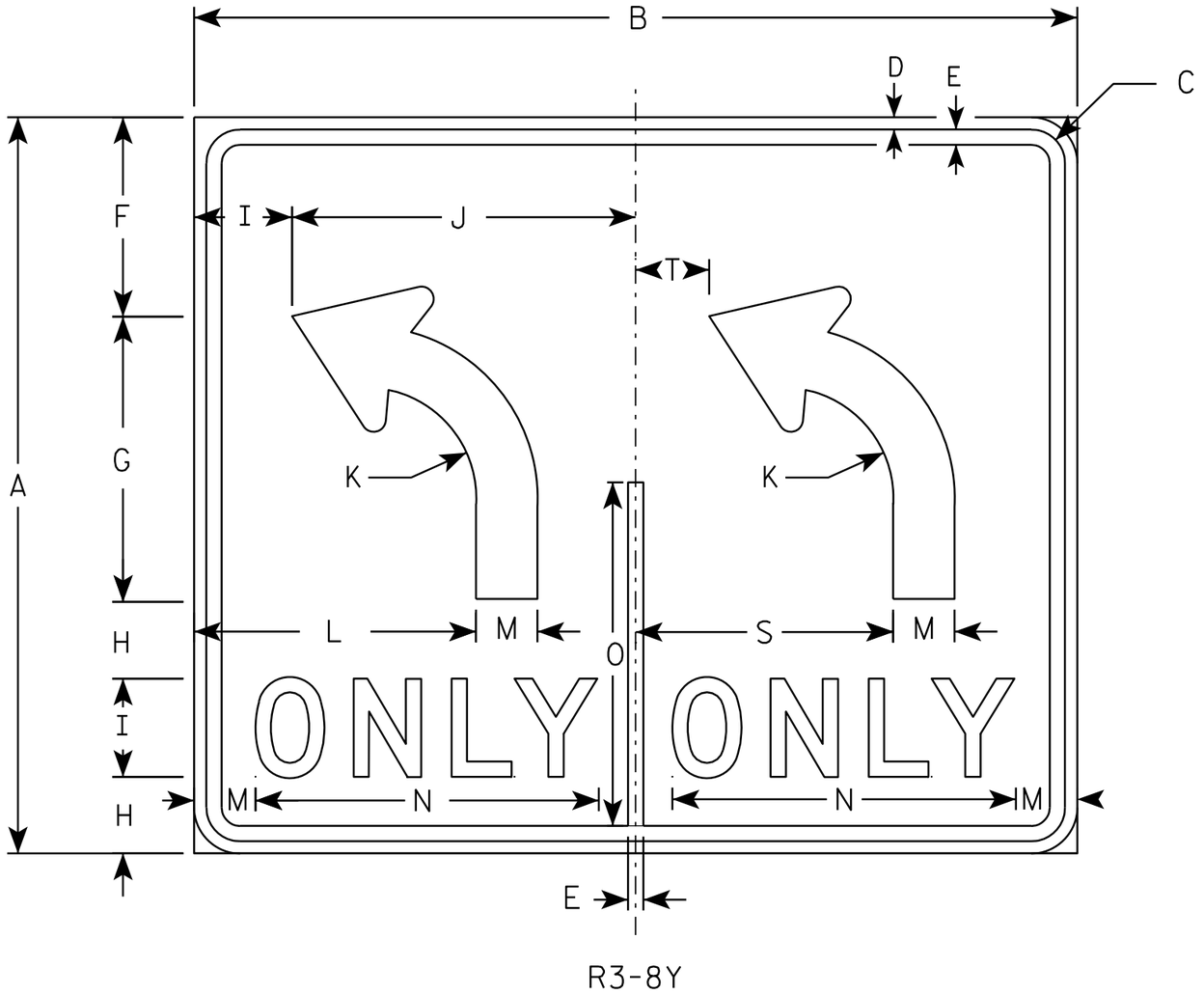
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/18/11 PLATE NO. R3-8V.3

PROJECT NO:

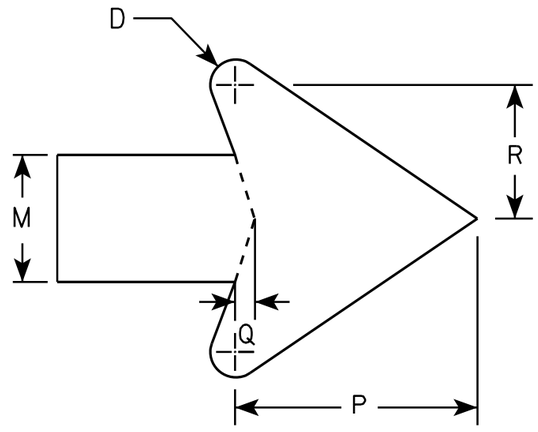
SHEET NO: 531 E



R3-8Y

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	10 1/2	3							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	10 1/2	3							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	15 3/4	4 1/2							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	15 3/4	4 1/2							18.0

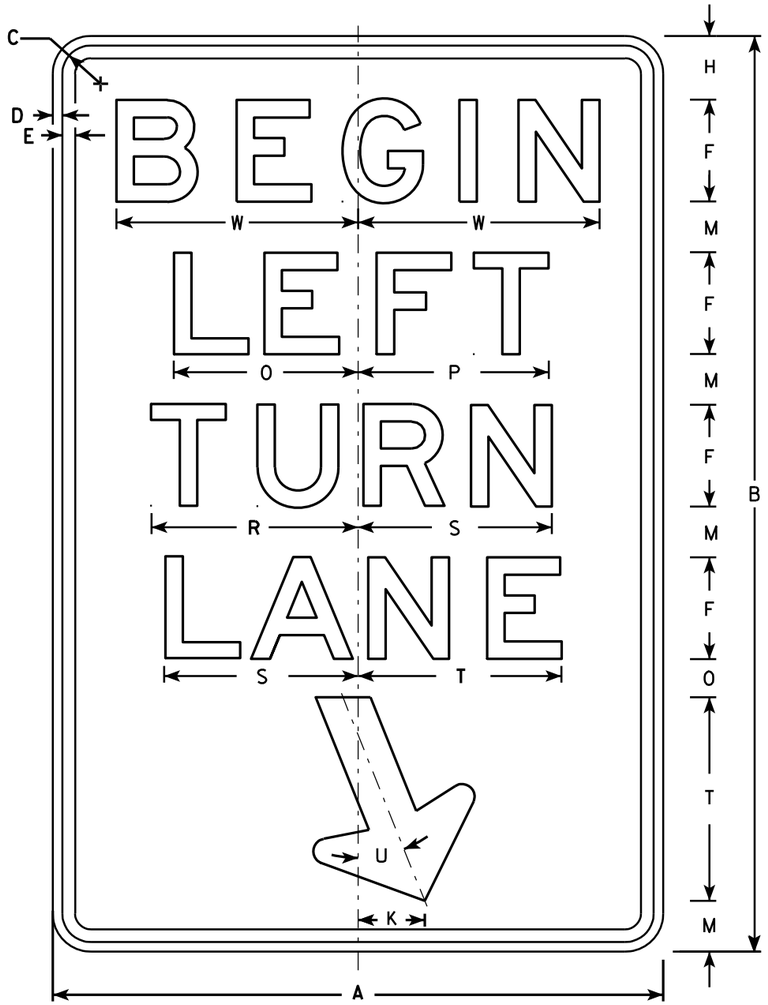
STANDARD SIGN
R3-8Y

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8Y.2

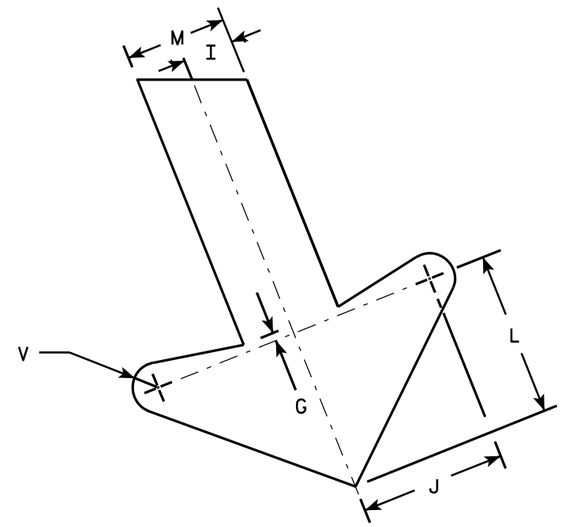
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 532	E



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																											

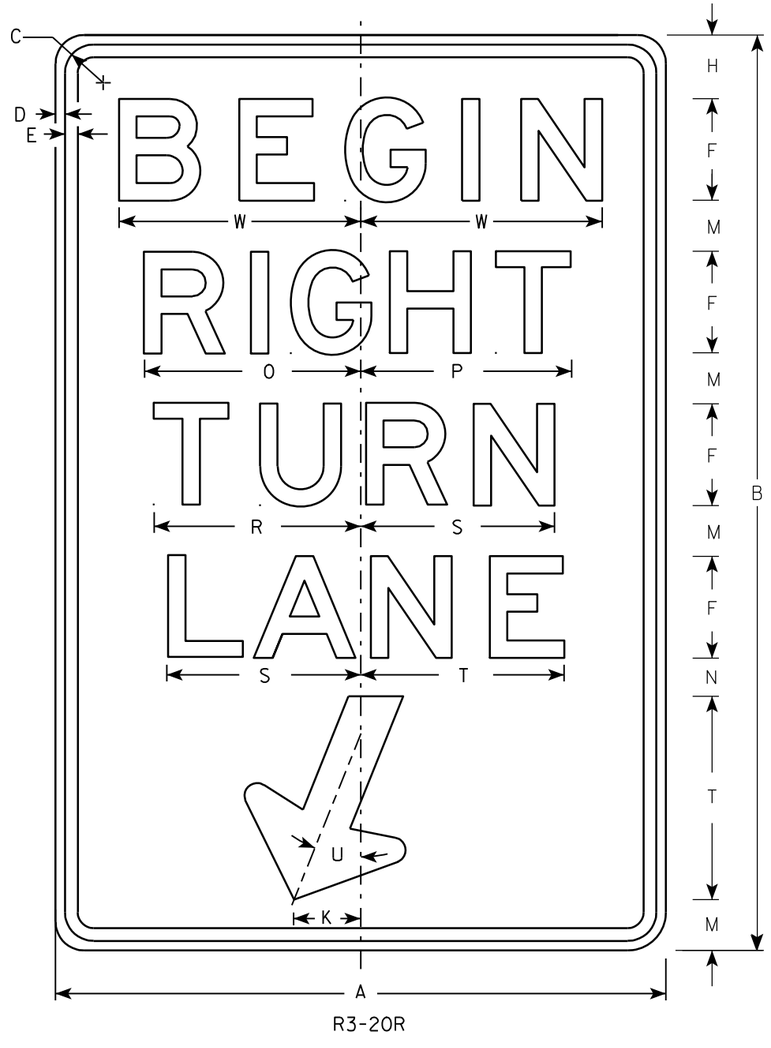
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

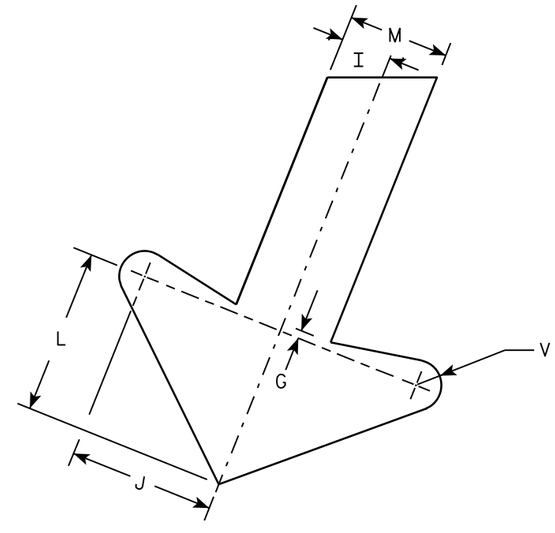
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 533	E



R3-20R

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	8 1/2	8 1/4		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	8 1/2	8 1/4		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	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

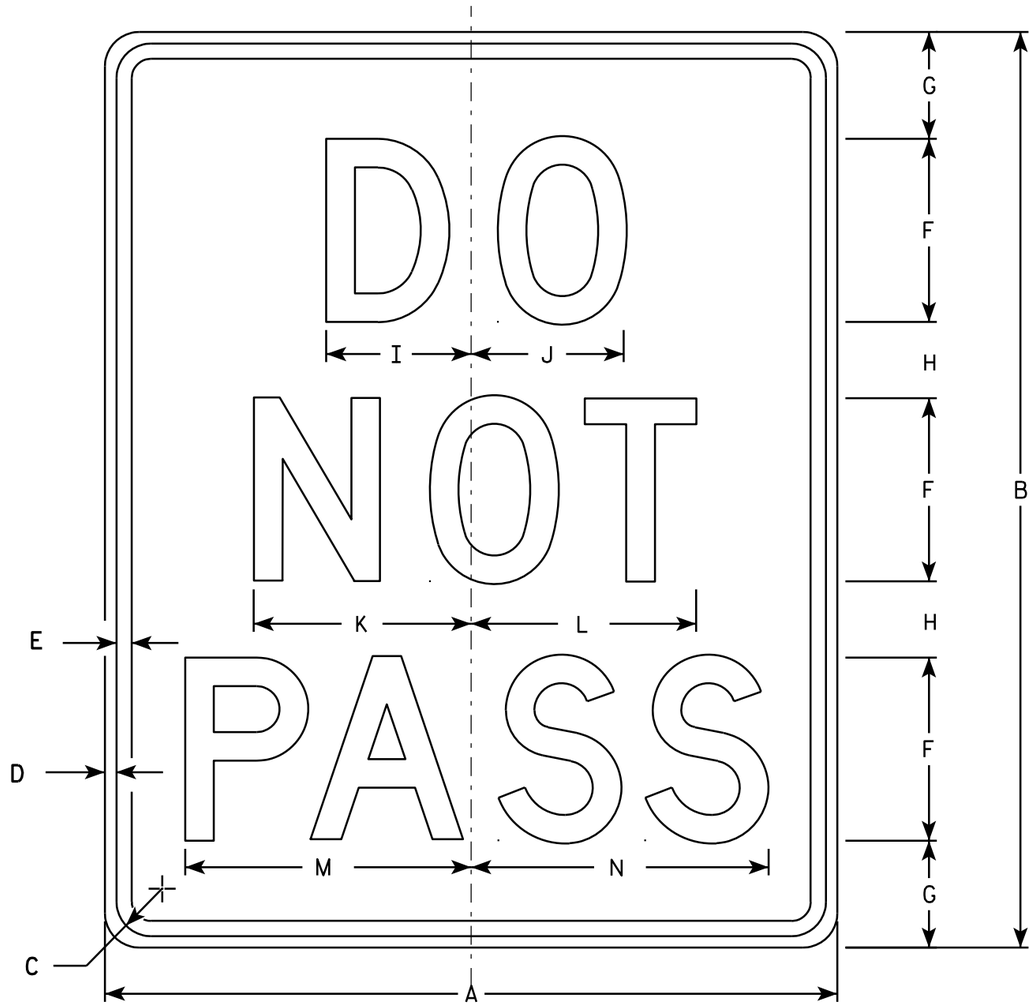
STANDARD SIGN
R3-20R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 534 | E



R4-1

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 - 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	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 7/8	12 1/4	15 5/8	16 1/4													20.0

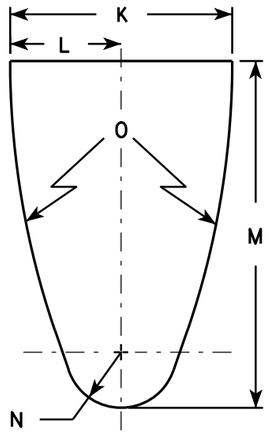
STANDARD SIGN
R4-1

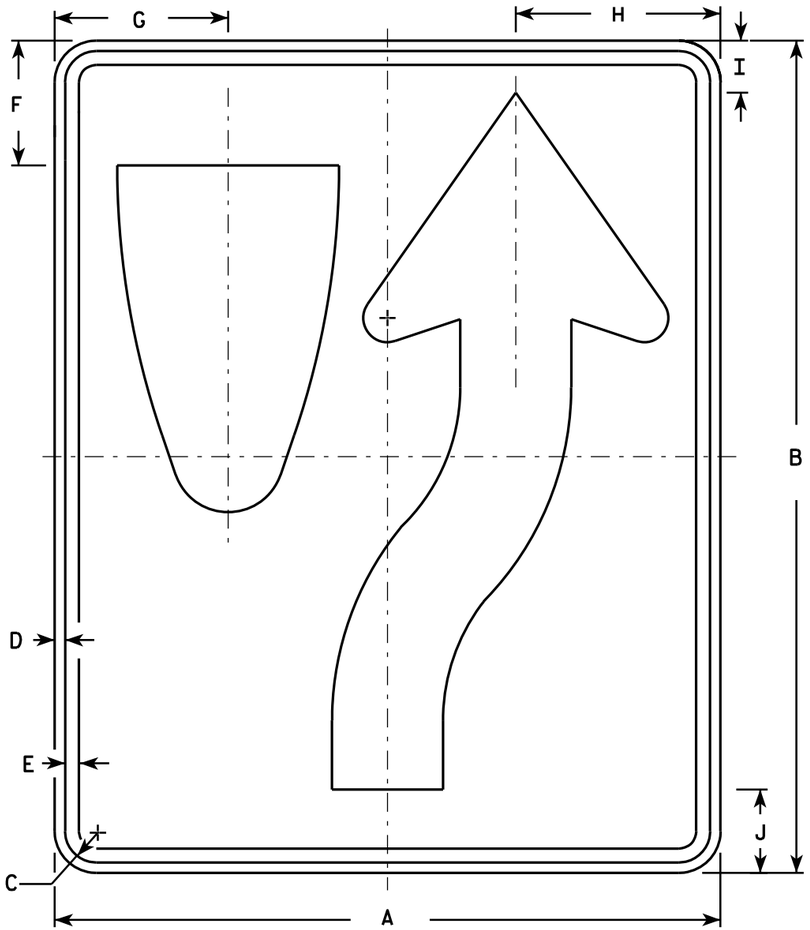
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-1.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 535 | E

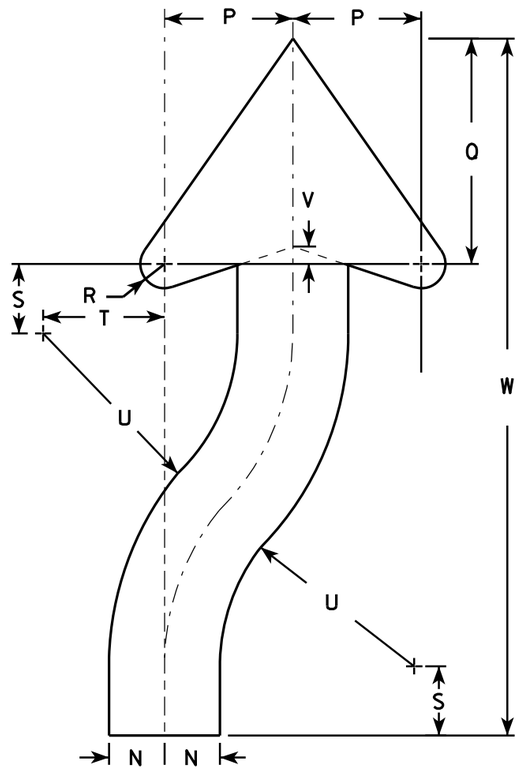




R4-7

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

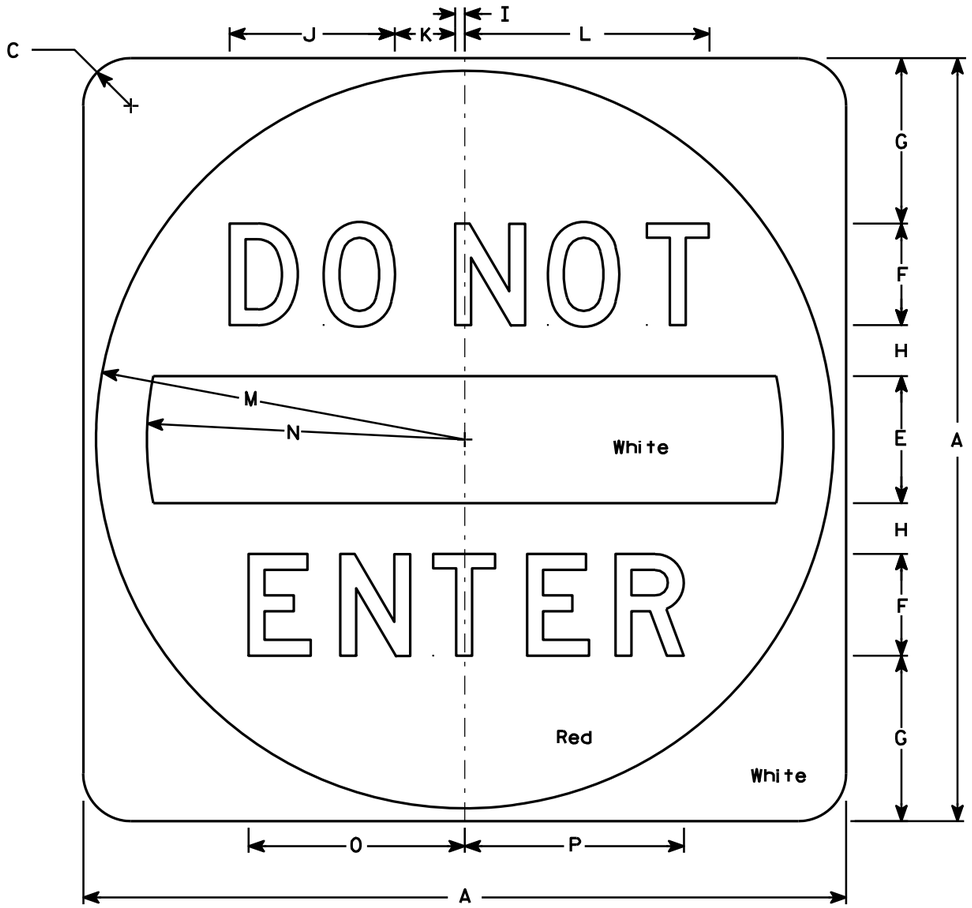
STANDARD SIGN
R4-7 & R4-8

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: 536	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

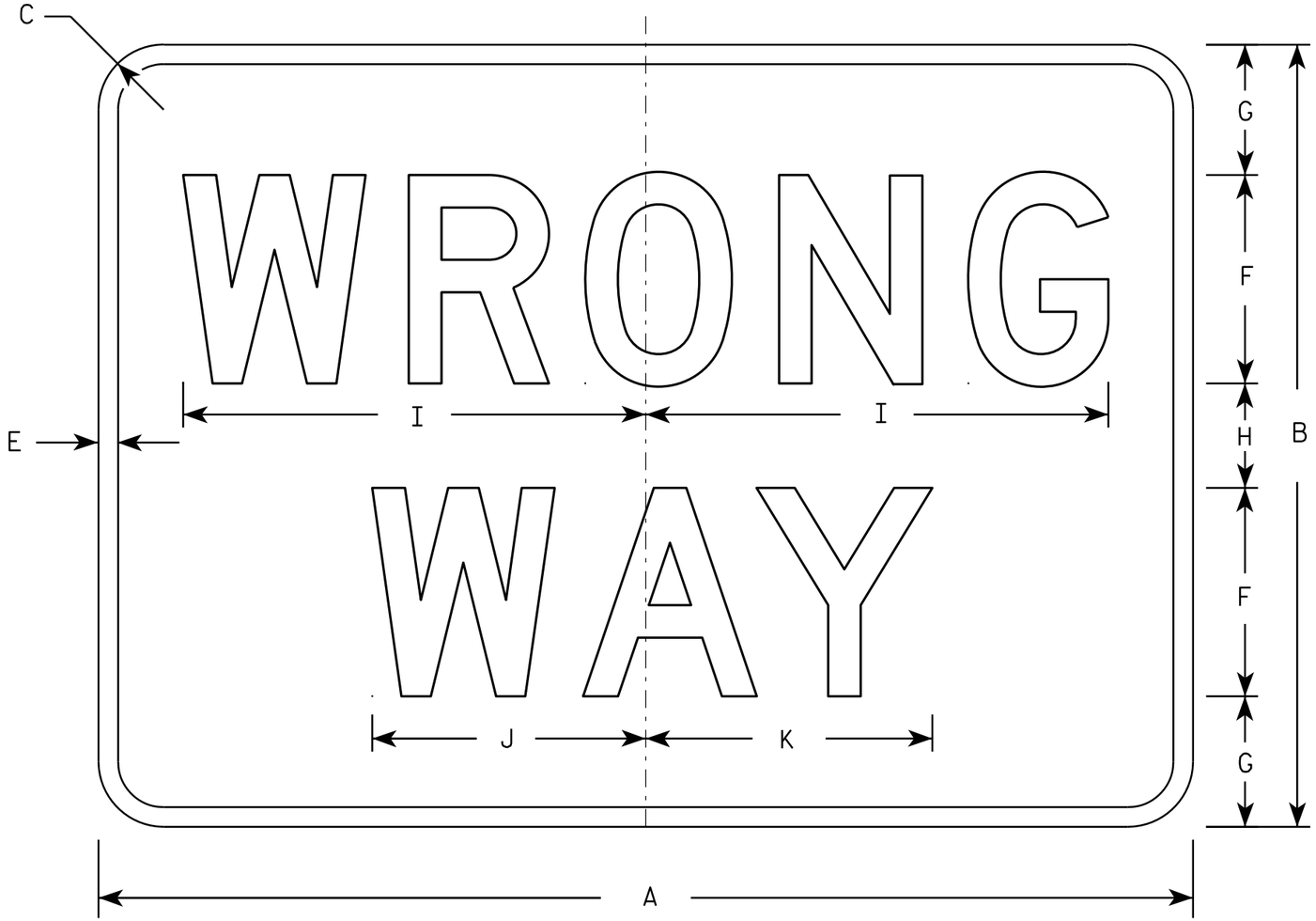
STANDARD SIGN
R5-1

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: 537 | 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: 538	E



R5-57

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Lines 1, 2, and 5 are Series C.
   Lines 3 and 4 are Series B.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0
5	36		1 5/8	5/8	3/4	4	3	2	3 1/2	14 1/4	14 7/8	11	11 1/2	4 3/4	1 3/4	9		1 3/8	10	11	2 1/2	1 3/4	15 1/2	13	13 5/8		9.0

STANDARD SIGN
R5-57

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R5-57.10

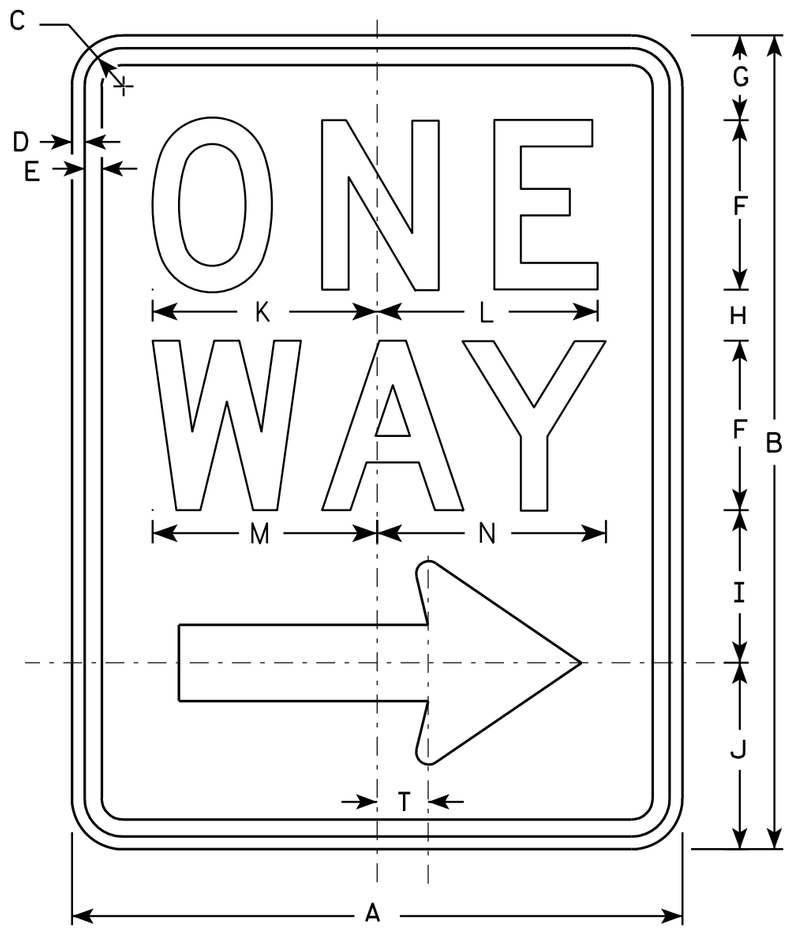
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 539 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R557.DGN PLOT DATE : 29-MAR-2011 14:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

WISDOT/CADDS SHEET 42

7

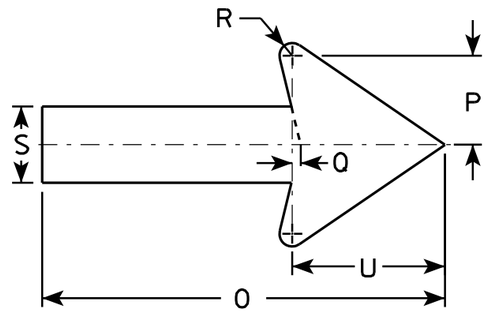
7



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	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																										

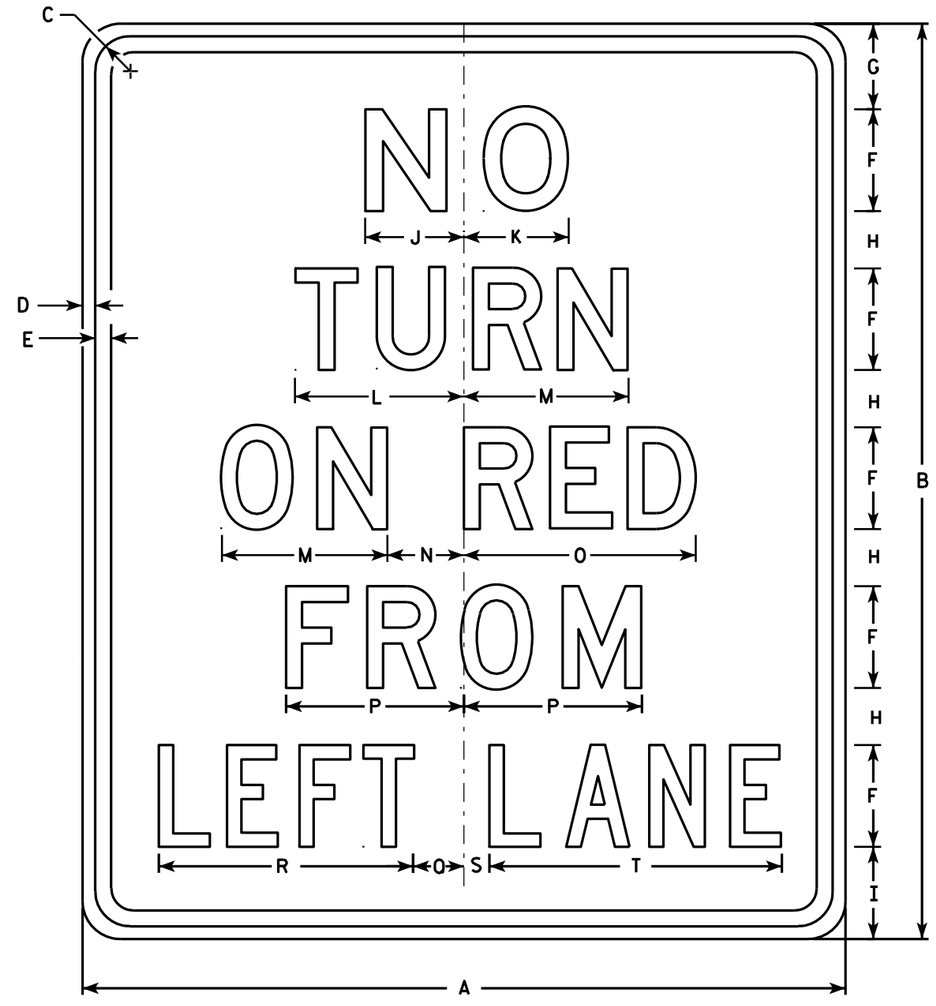
STANDARD SIGN
R6-2 R&L

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: 540	E



R10-11F

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 E.
   Lines 2, 3 and 4 are Series D.
   Line 5 is 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																											
2S	30	36	1 3/8	1/2	5/8	4	3 3/8	2 1/4	3 5/8	3 7/8	4 1/8	6 5/8	6 1/2	3	9 1/8	7	2	10	1	11 1/2							7.5
2M	30	36	1 3/8	1/2	5/8	4	3 3/8	2 1/4	3 5/8	3 7/8	4 1/8	6 5/8	6 1/2	3	9 1/8	7	2	10	1	11 1/2							7.5
3																											
4																											
5																											

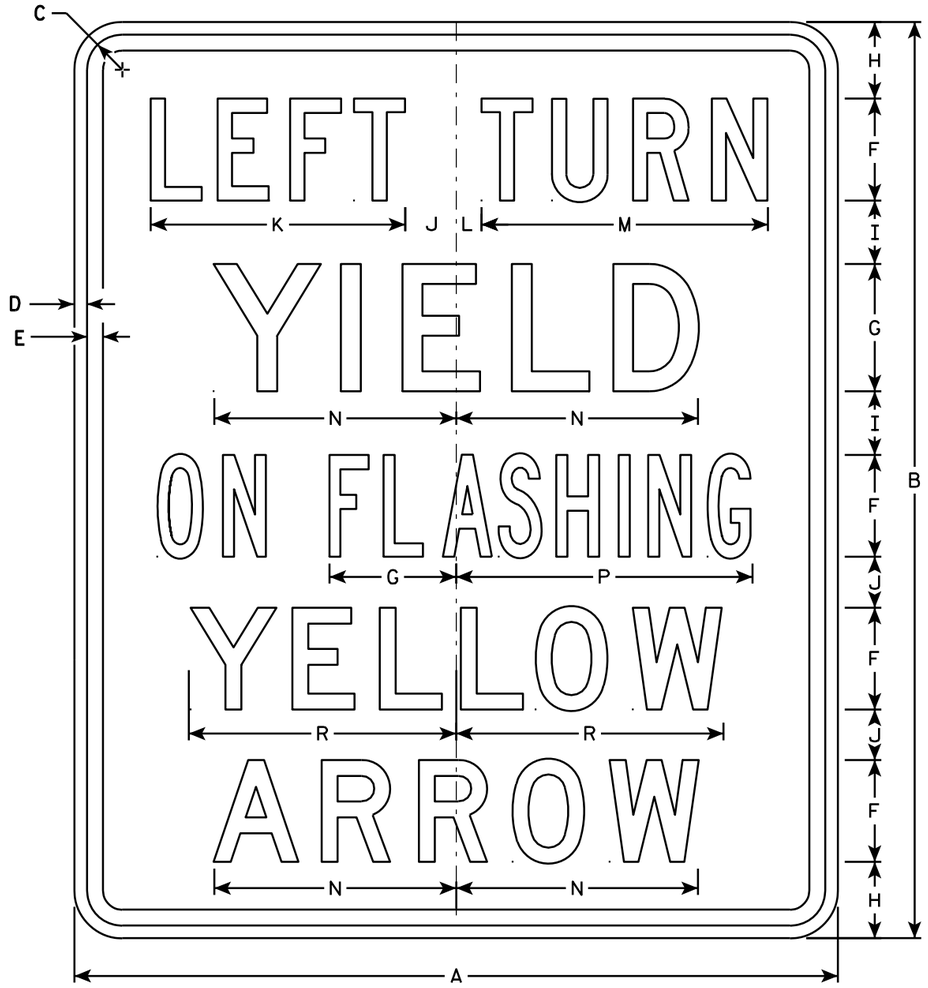
STANDARD SIGN
R10-11F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/5/11 PLATE NO. R10-11F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 541	E

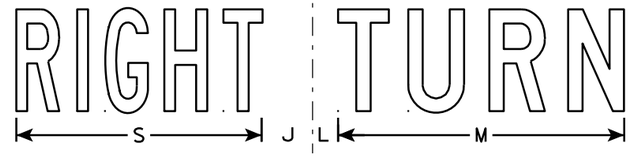


R10-50L

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 C.
   Lines 2, 4 and 5 are Series D.
   Line 3 is Series B.

"RIGHT" Is Series B



R10-50R

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	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
2M	30	36	1 3/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
3																											
4																											
5																											

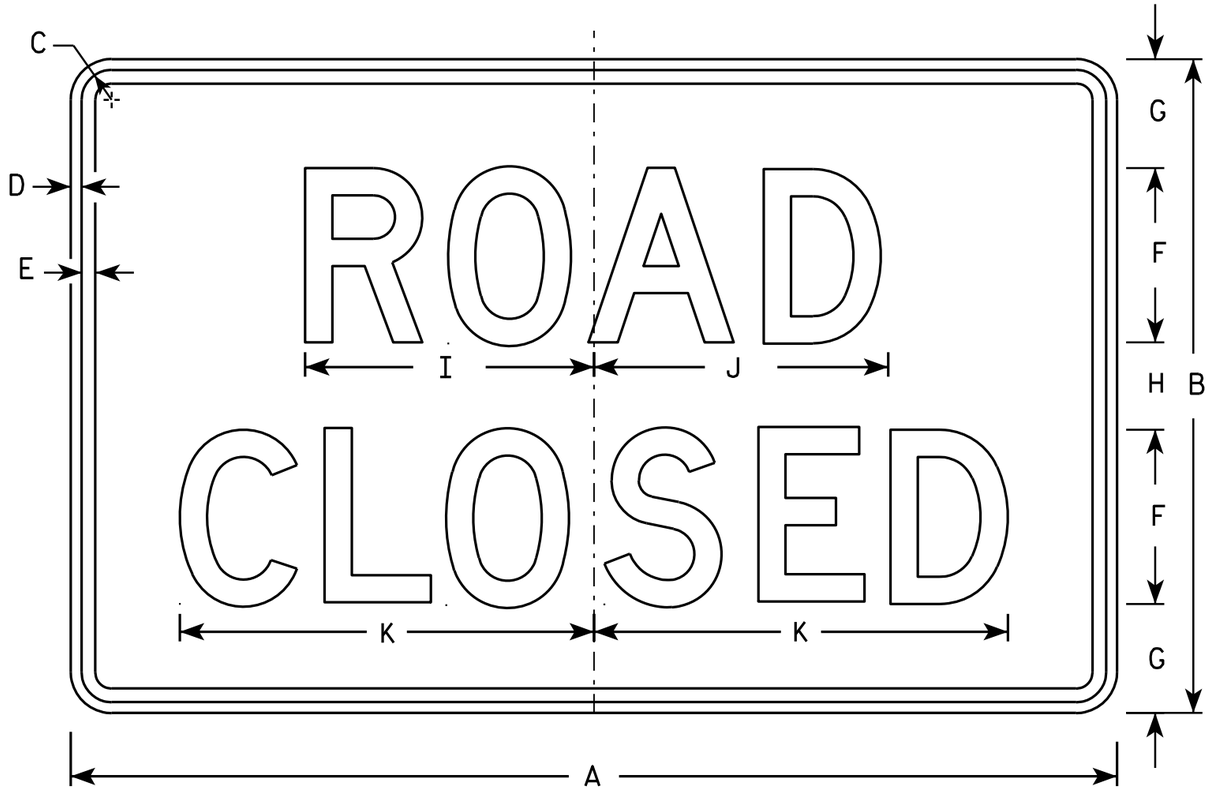
STANDARD SIGN
R10-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/11/13 PLATE NO. R10-50.2

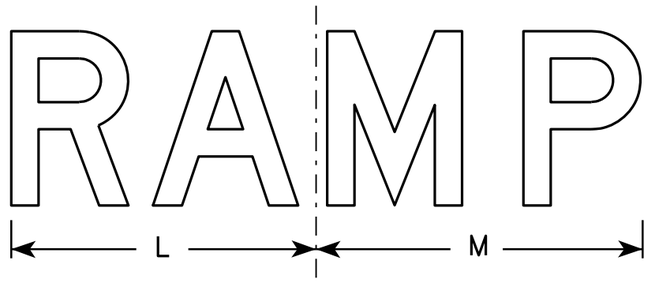
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 542	E



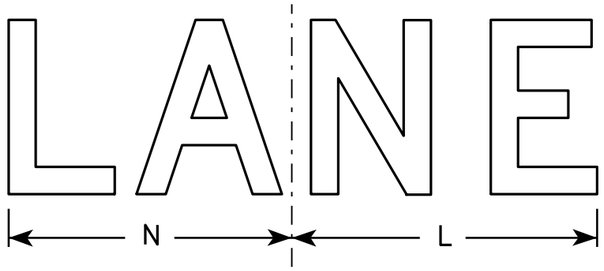
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

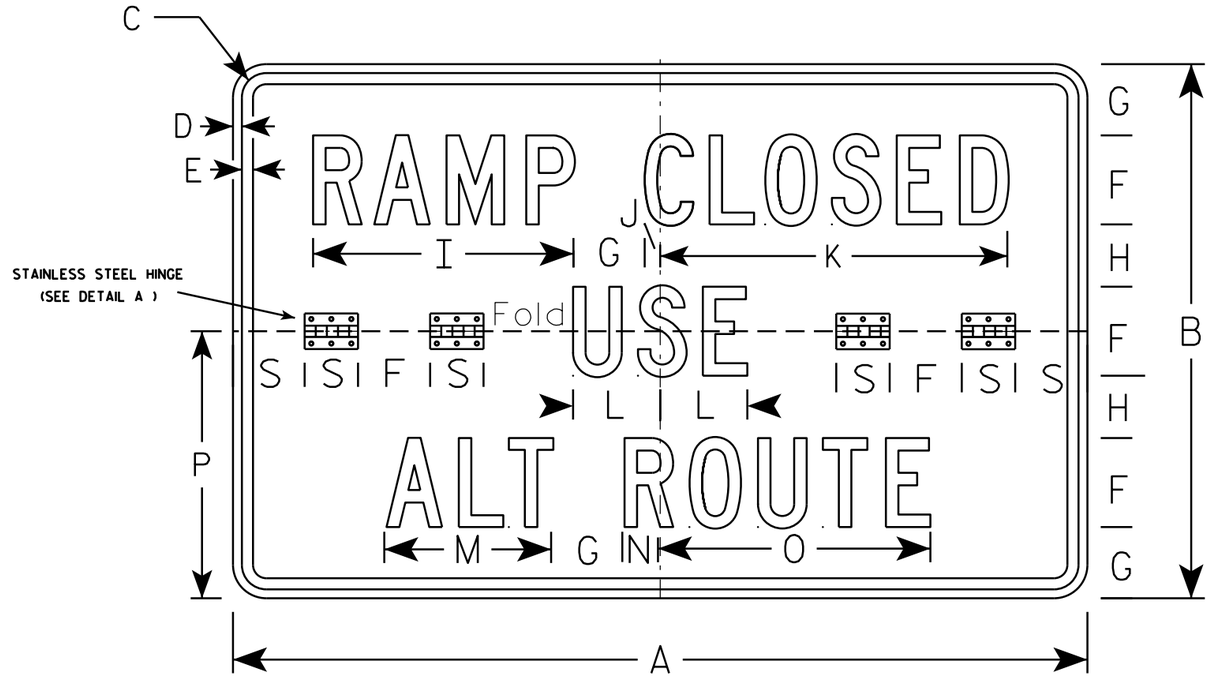
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

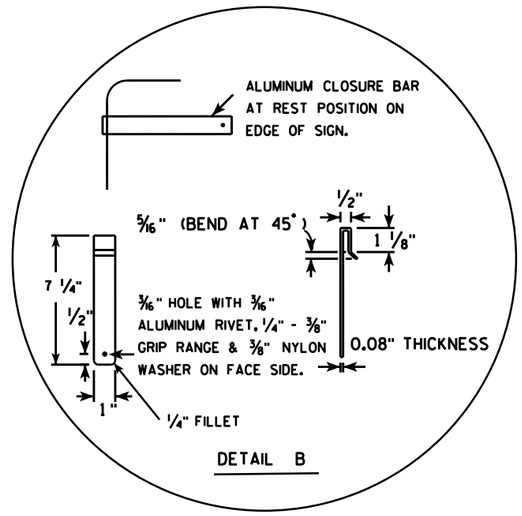
DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 543	E



R11-54F

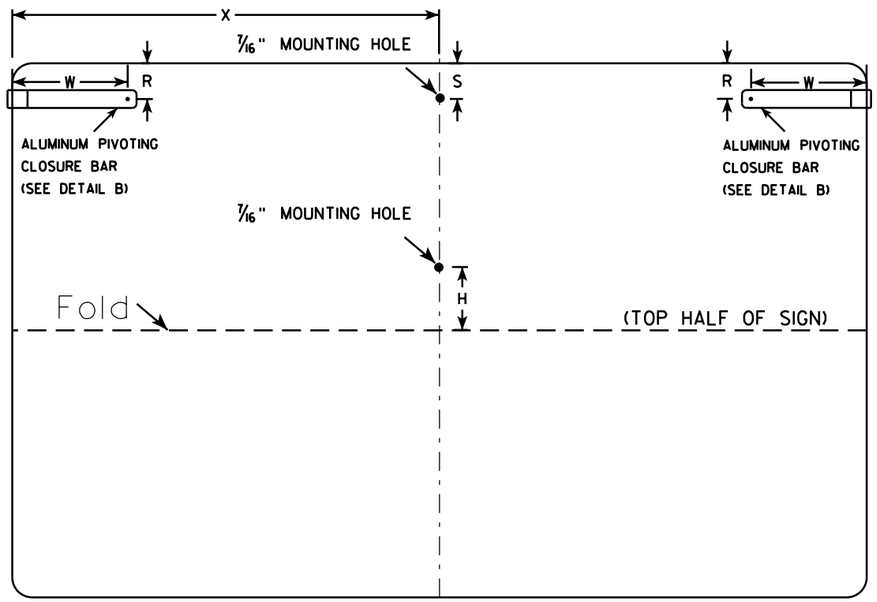
DETAIL A



DETAIL B

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - C
4. Sign Base Material shall be aluminum, corners and borders shall be rounded.
5. All hardware used on the folding sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.
6. Refer to plate A5-3A for sign blank layout.



(BACK VIEW)

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
2M	48	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
3																											
4																											
5																											

STANDARD SIGN
R11-54F

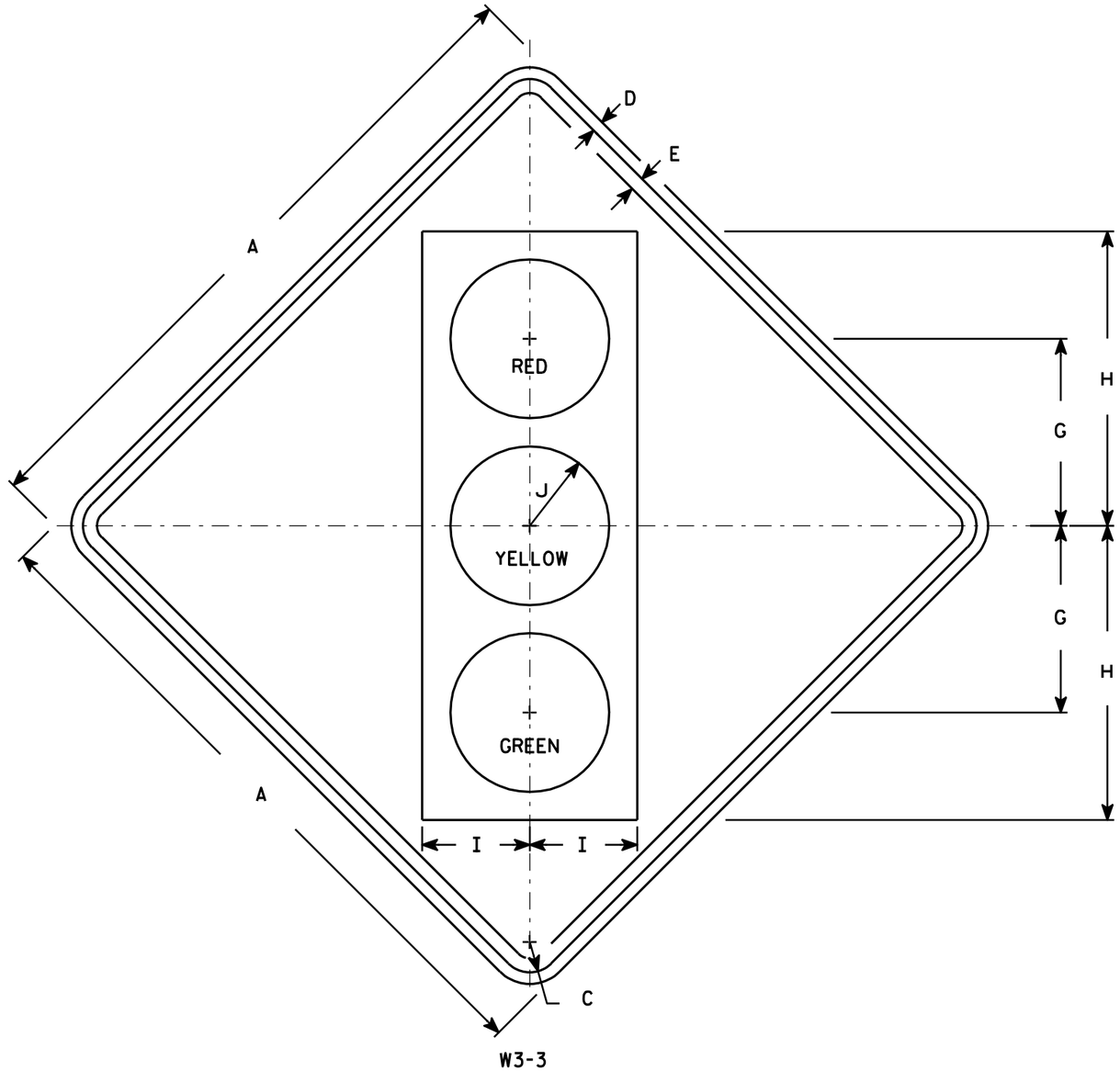
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/28/14 PLATE NO. R11-54F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R1154F.DGN PLOT DATE : 28-MAY-2014 14:15 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 8.511110:1.000000
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 - 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

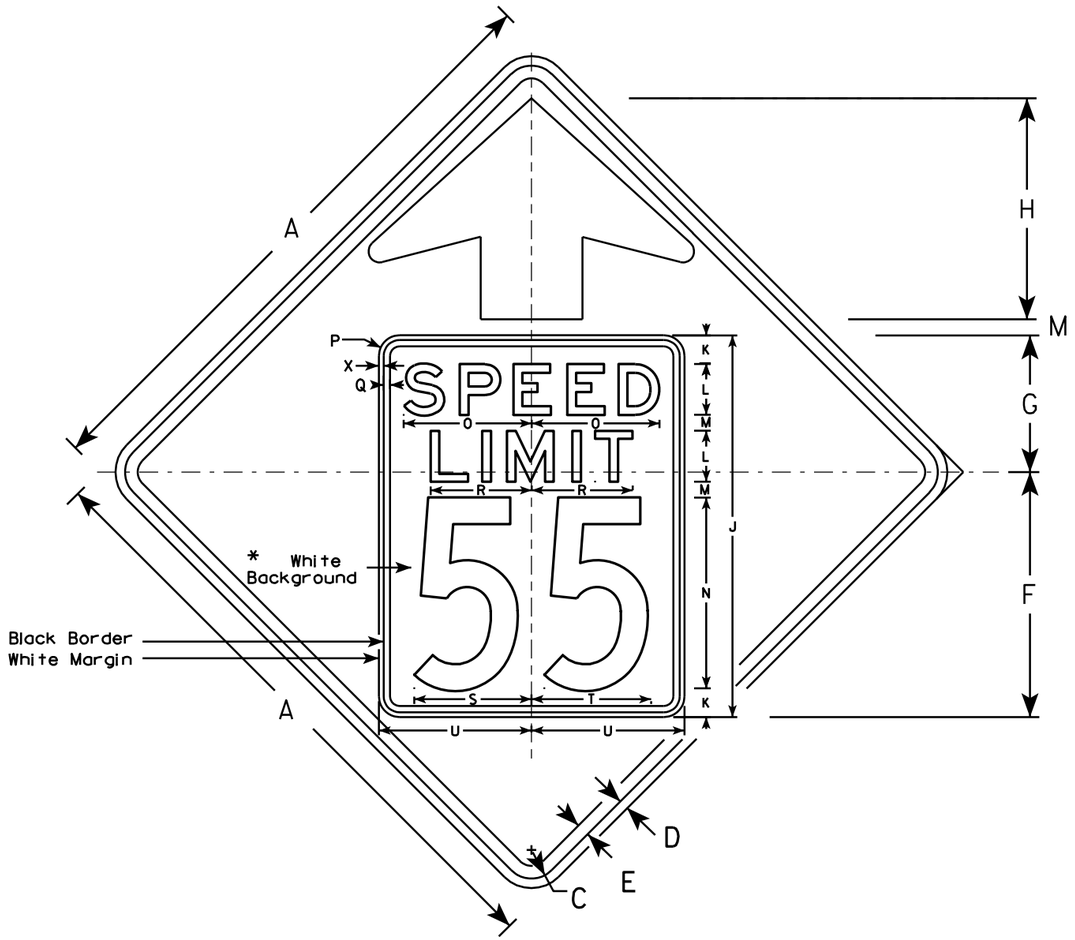
STANDARD SIGN
W3-3

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: 545 | E

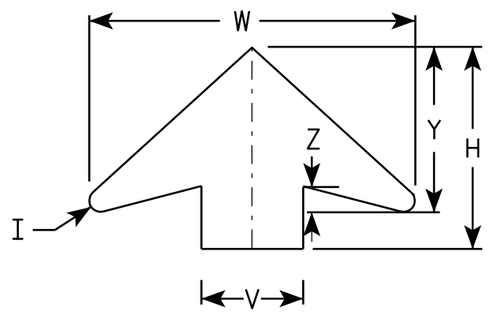


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White 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																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

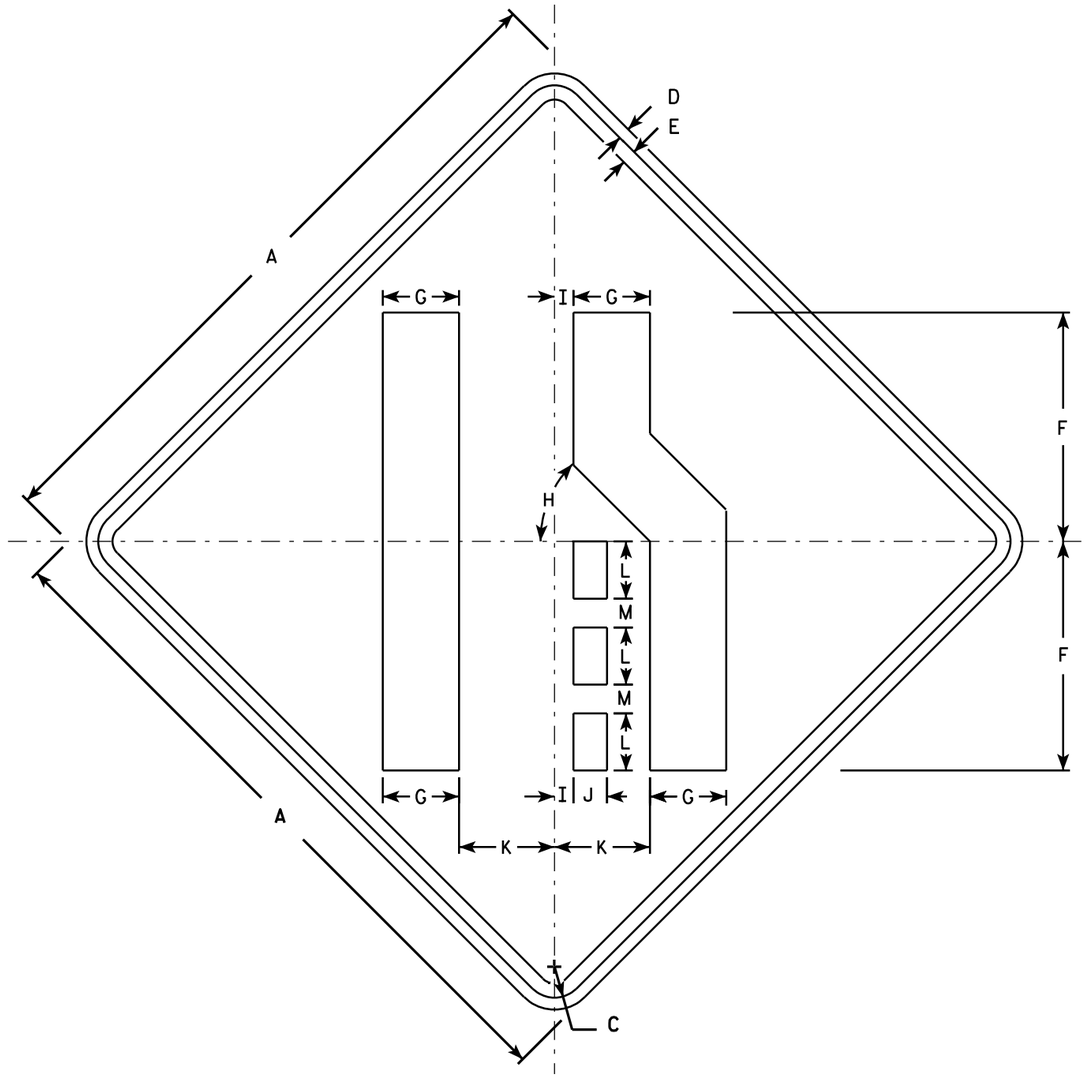
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 546 E



W4-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

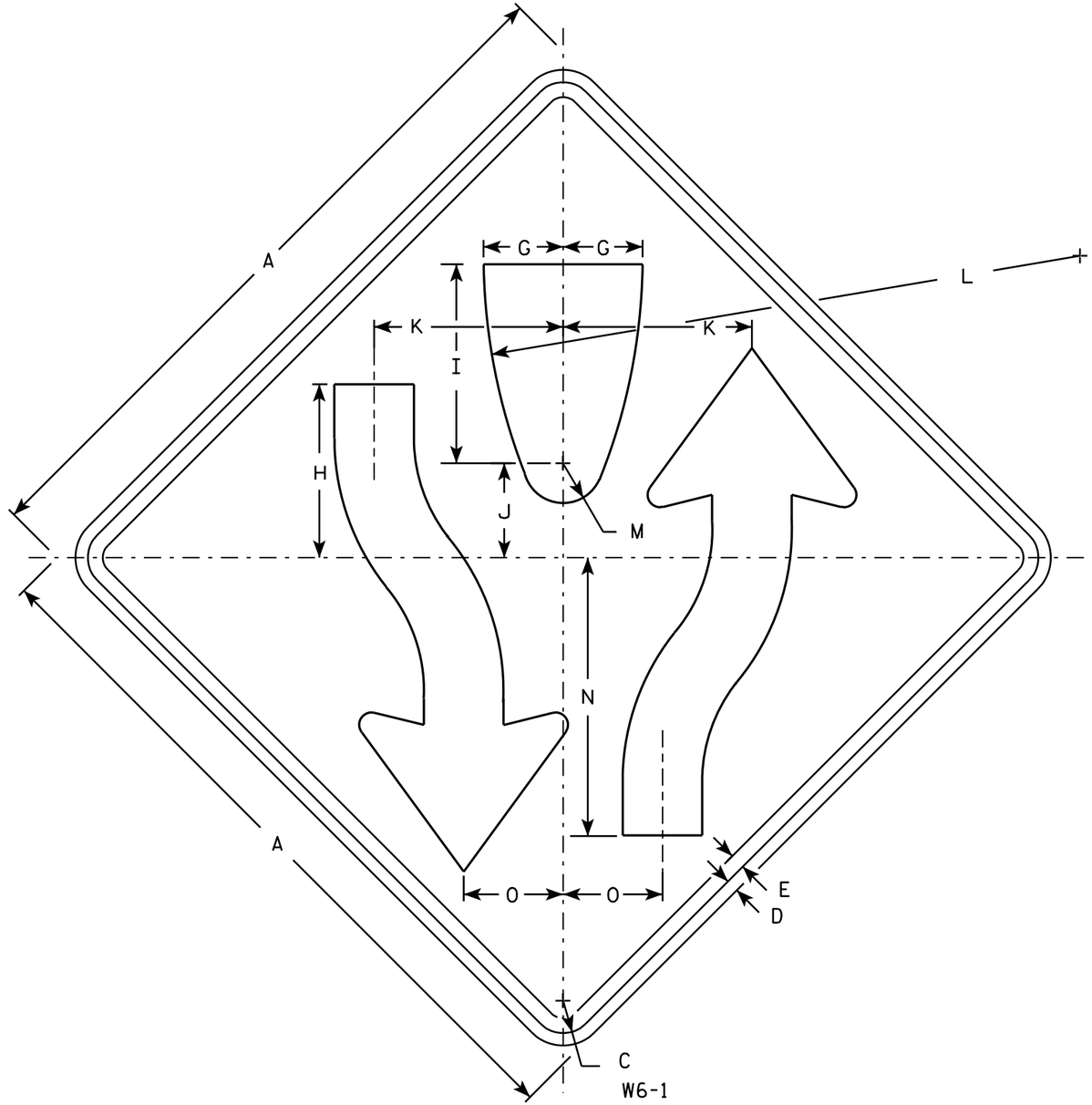
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

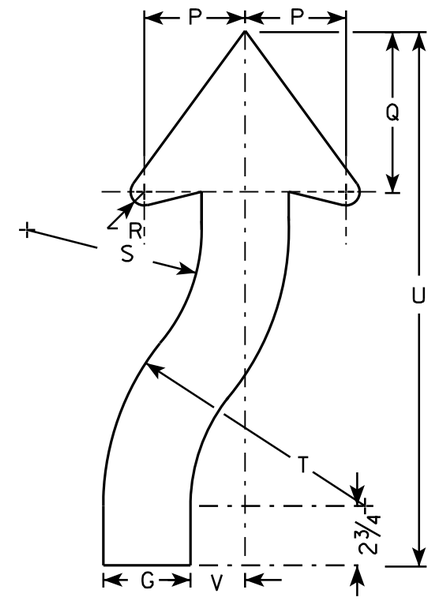
PROJECT NO:

SHEET NO: 547 E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

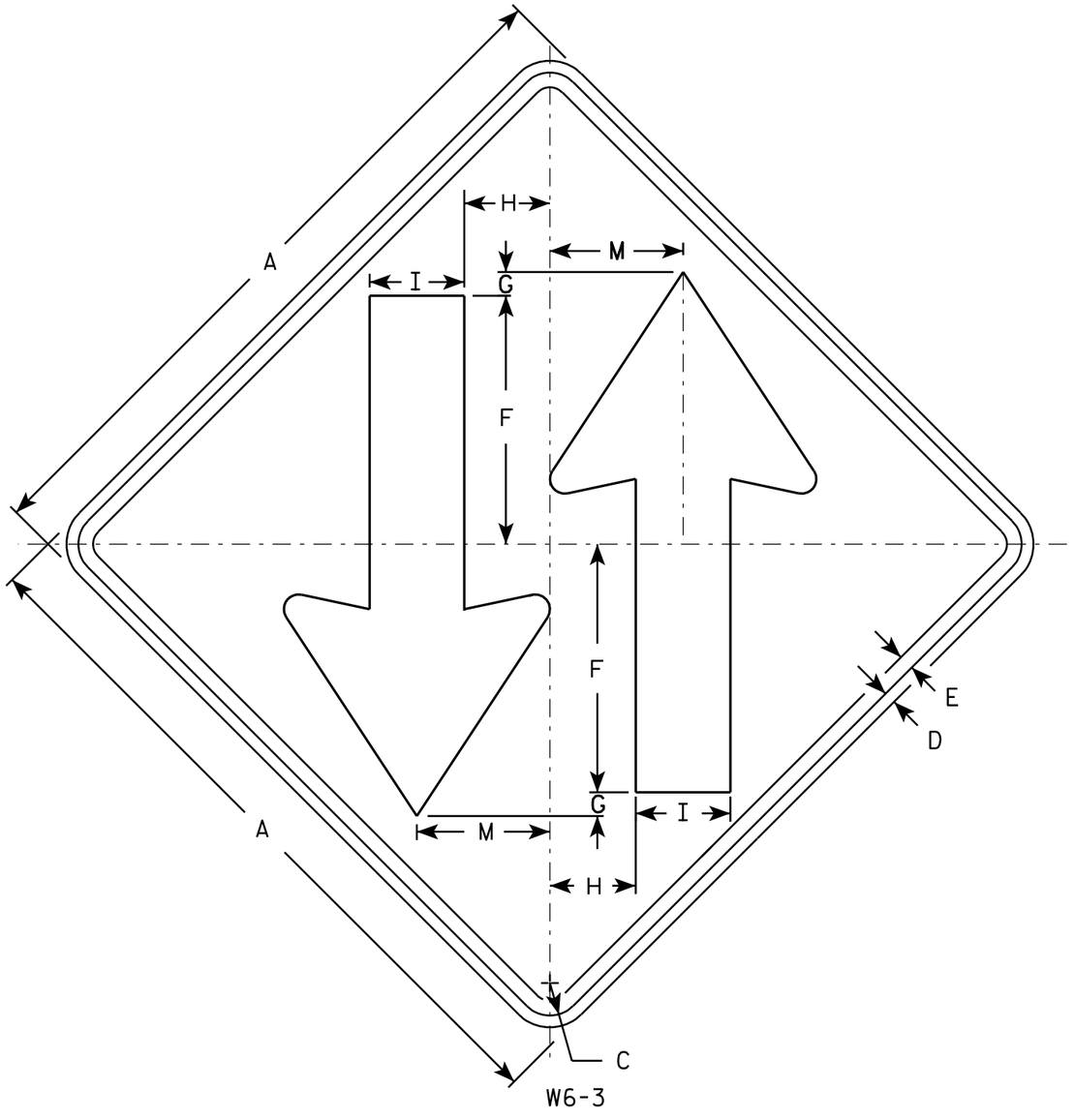
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

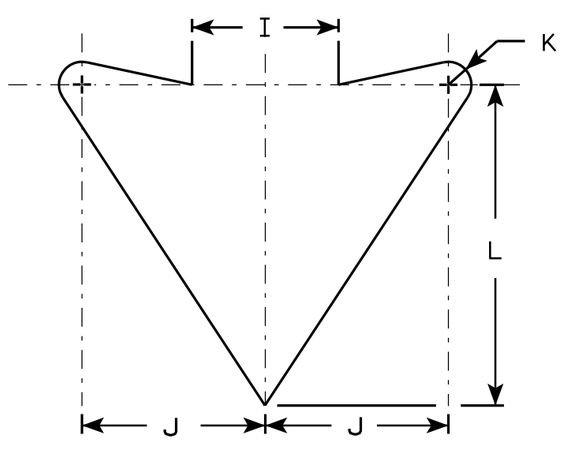
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 548	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10 1/2	1	3 5/8	4	5	5/8	8 3/4	5 5/8														6.25
2S	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2M	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
3																											
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

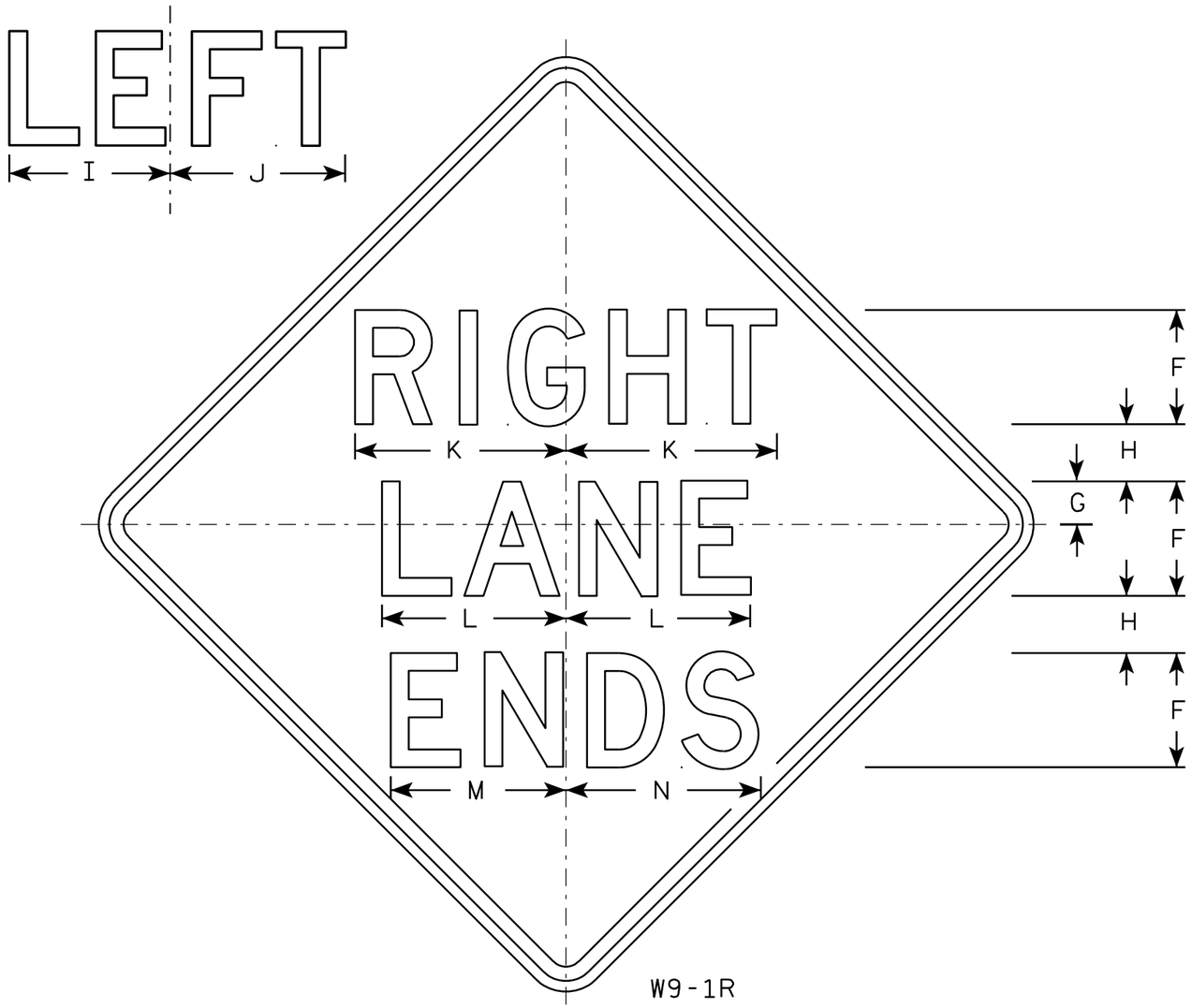
STANDARD SIGN
W6-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-3.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 549 | E



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:

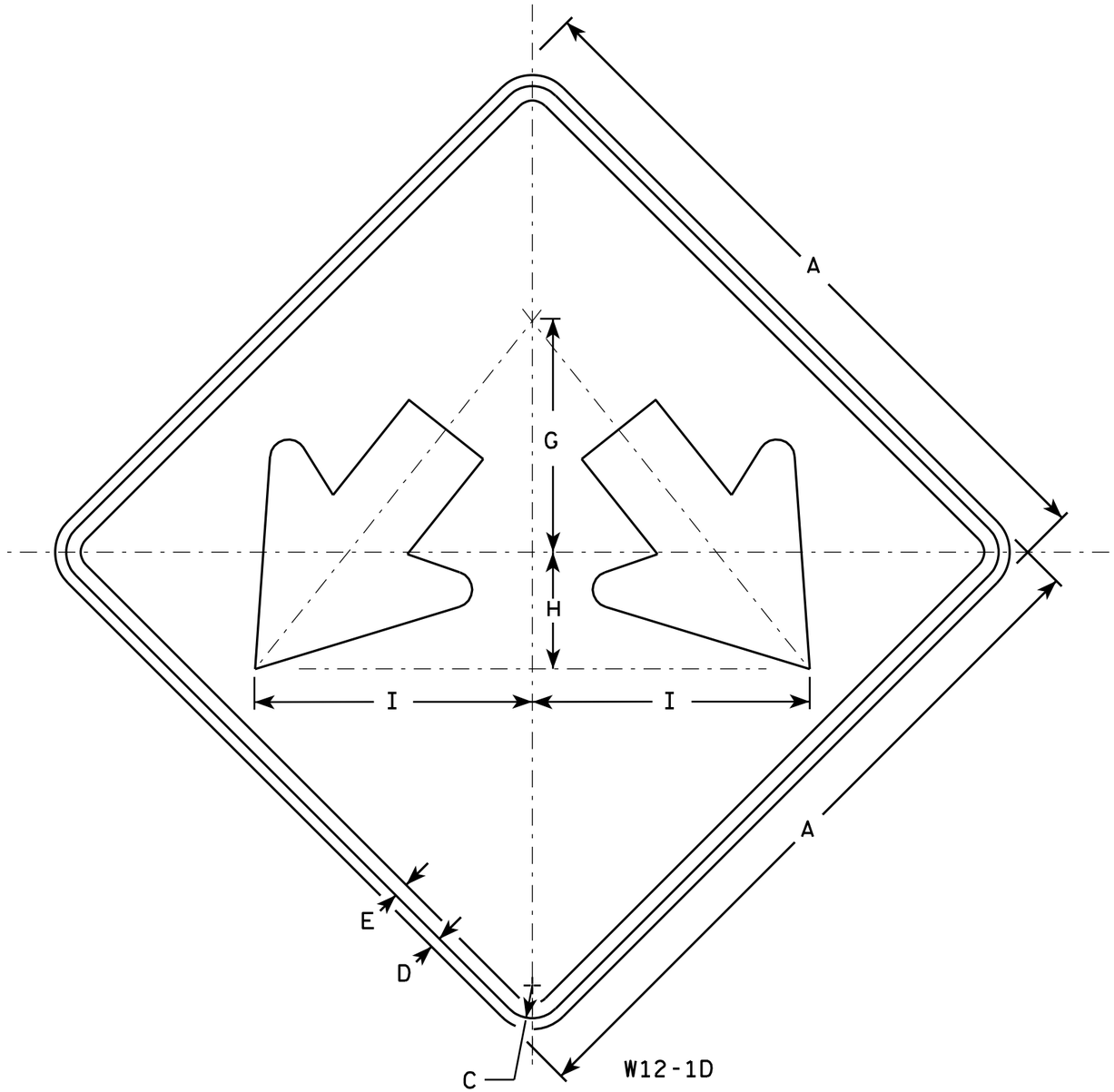
SHEET NO: 550 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

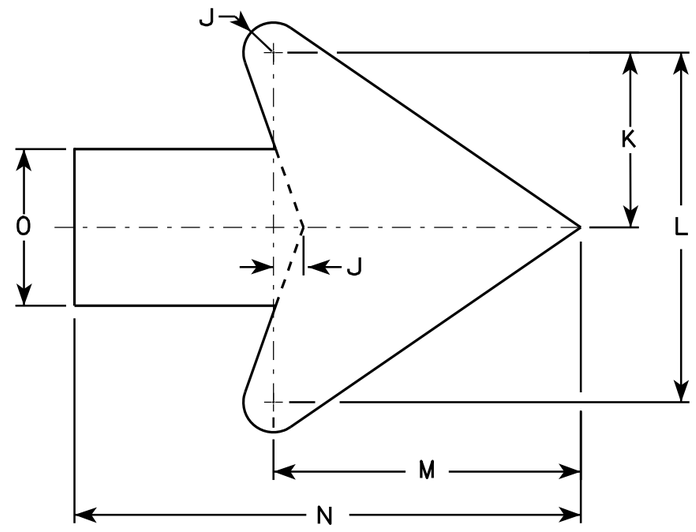
7

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 - 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

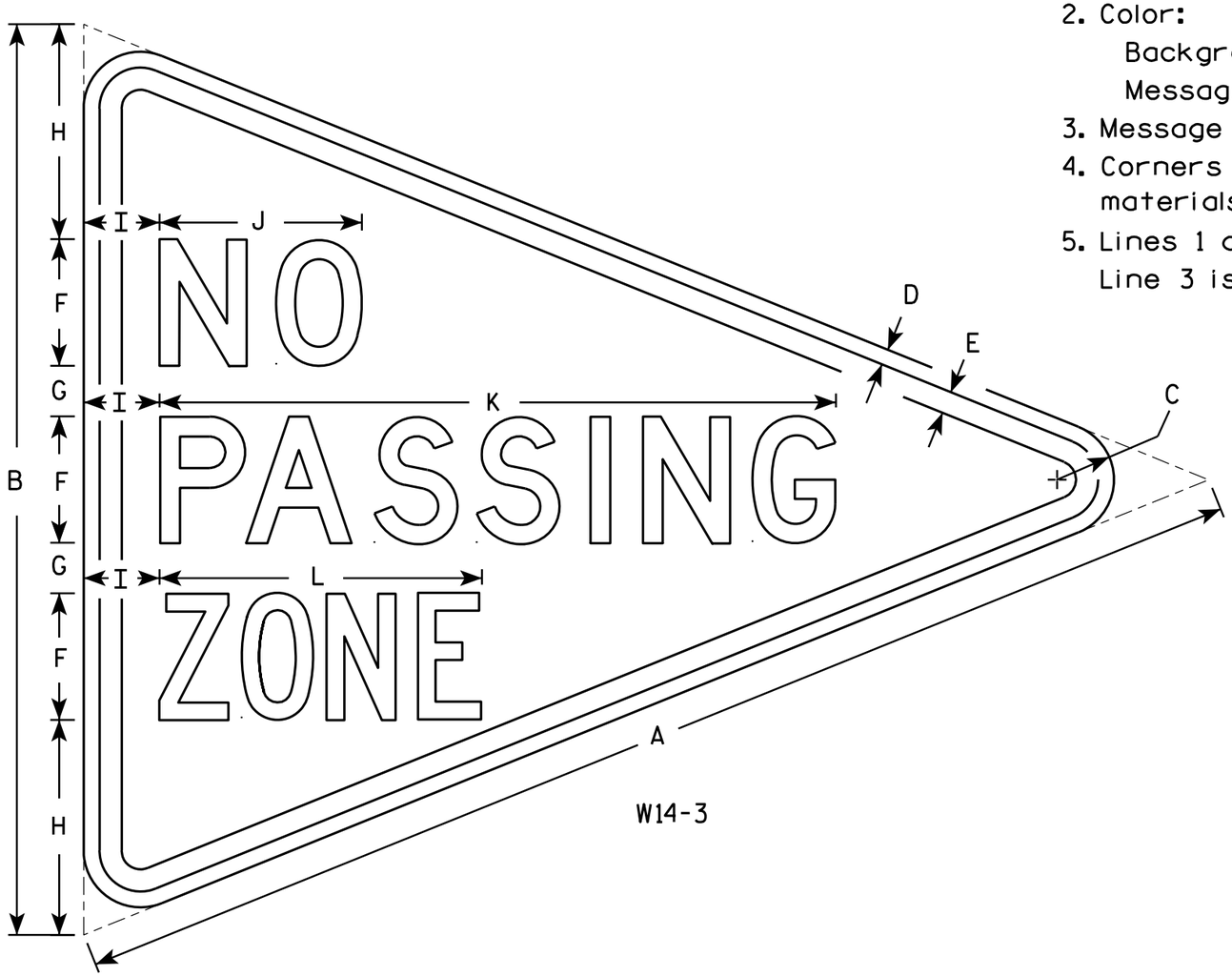
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 551	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																											

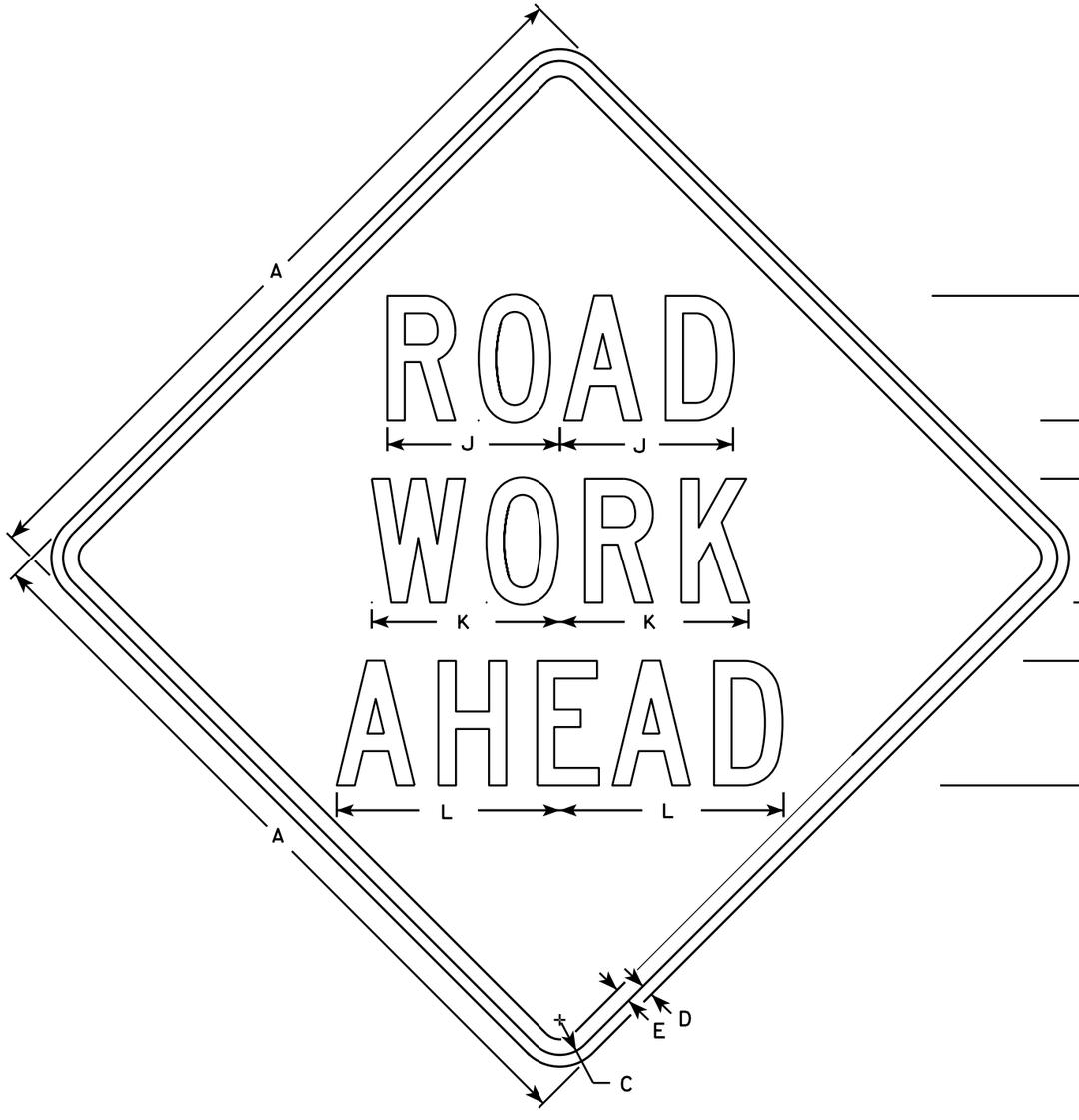
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

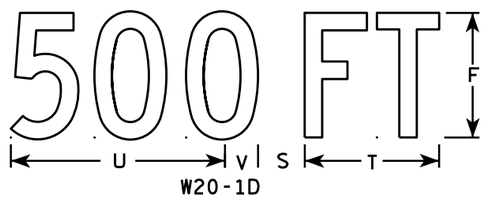
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

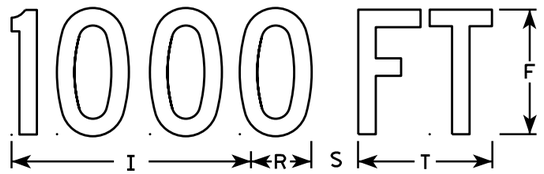
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 552	E



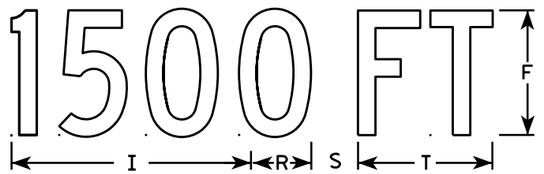
W20-1A



W20-1D



W20-1C



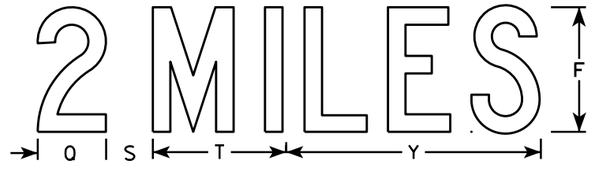
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer

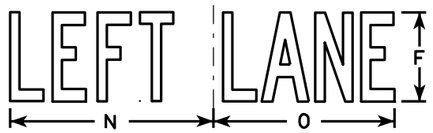
DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

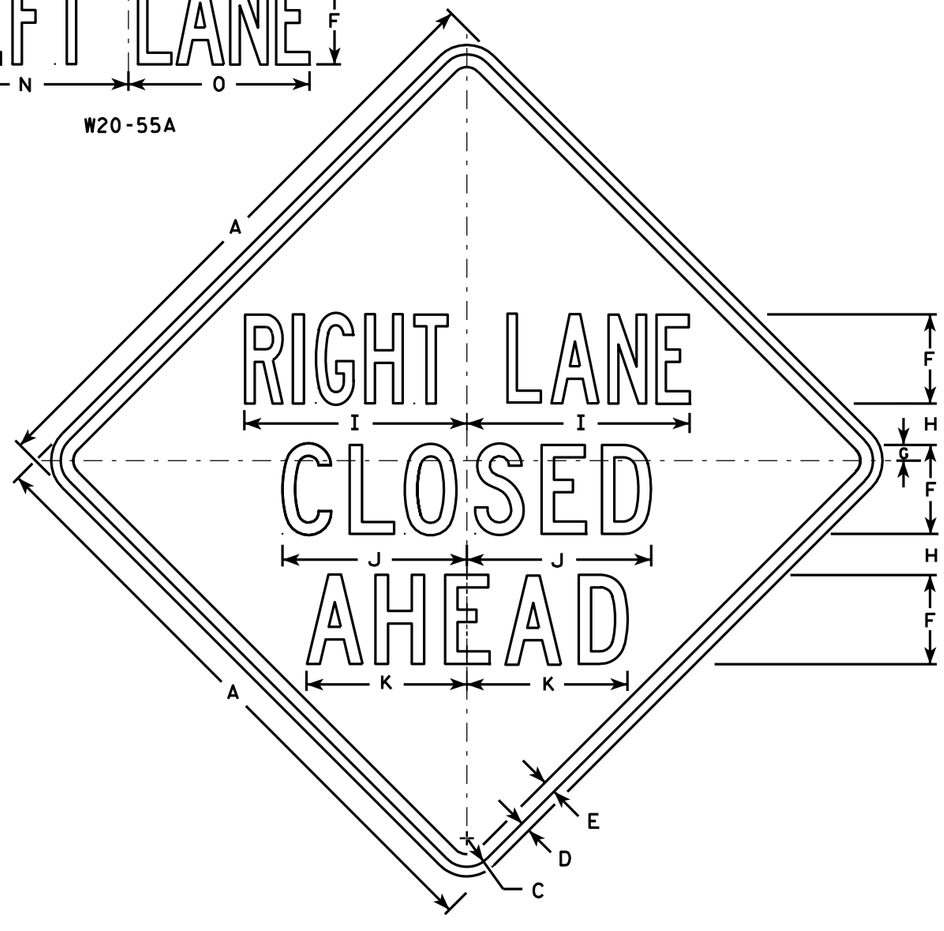
SHEET NO: E



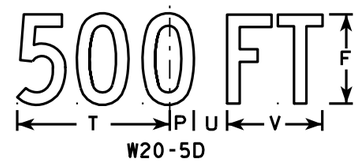
W20-56A



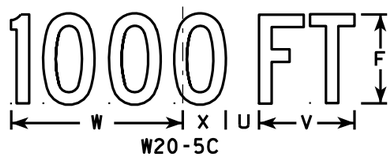
W20-55A



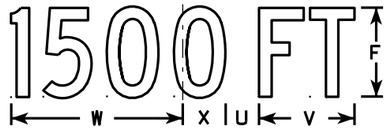
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is 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	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

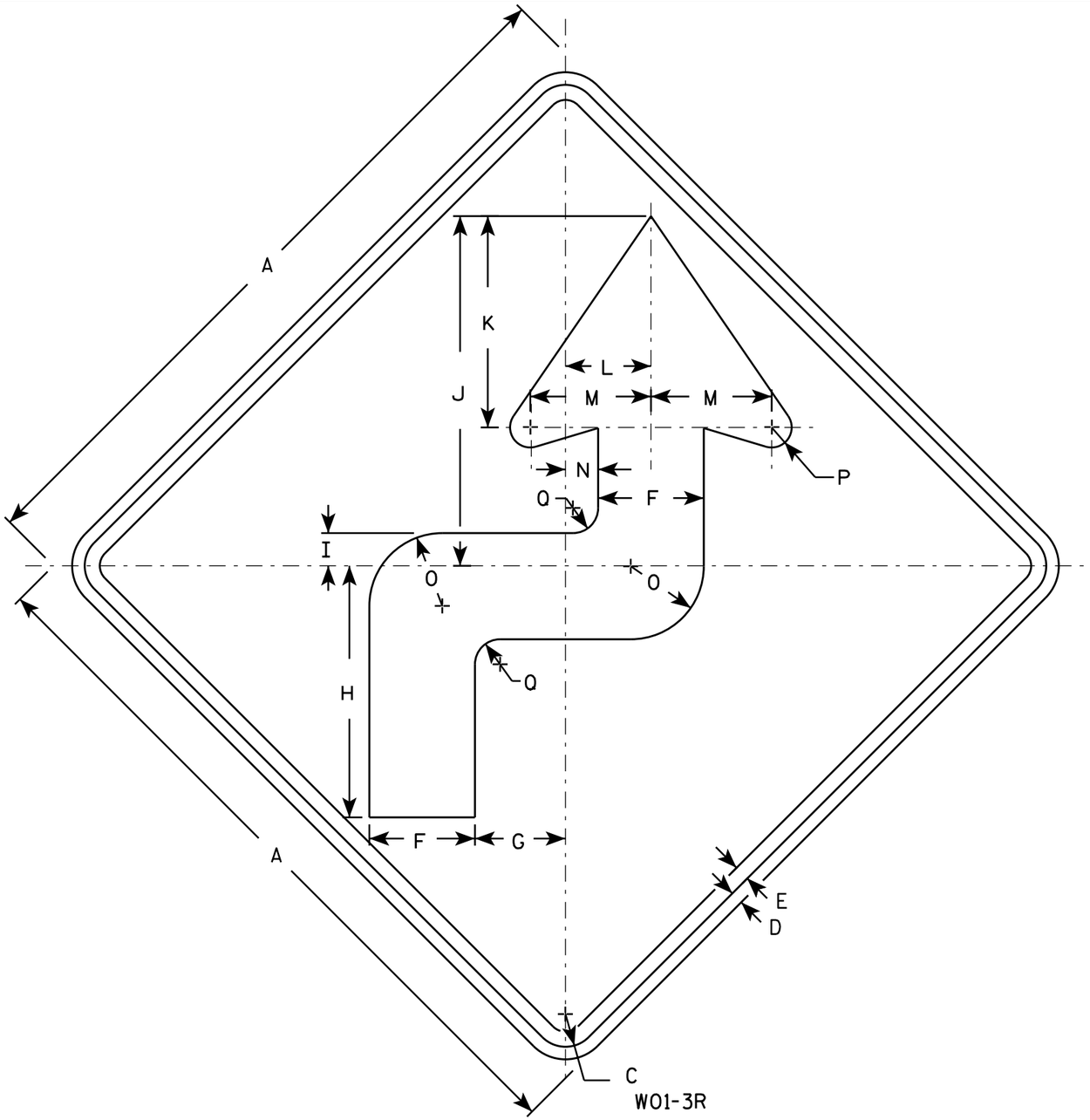
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 554	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
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 - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-3L is the same as W01-3R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5 1/4	4 1/2	12 1/2	1 5/8	17 3/8	10 1/2	4 1/4	6	1 5/8	3 5/8	1	1 1/4										9.0
2S	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
2M	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
3	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
4	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0
5	48		2 1/4	3/4	1	7	6	16 5/8	2 1/4	23 1/4	14	5 5/8	8	2 1/8	4 7/8	1 1/4	1 5/8										16.0

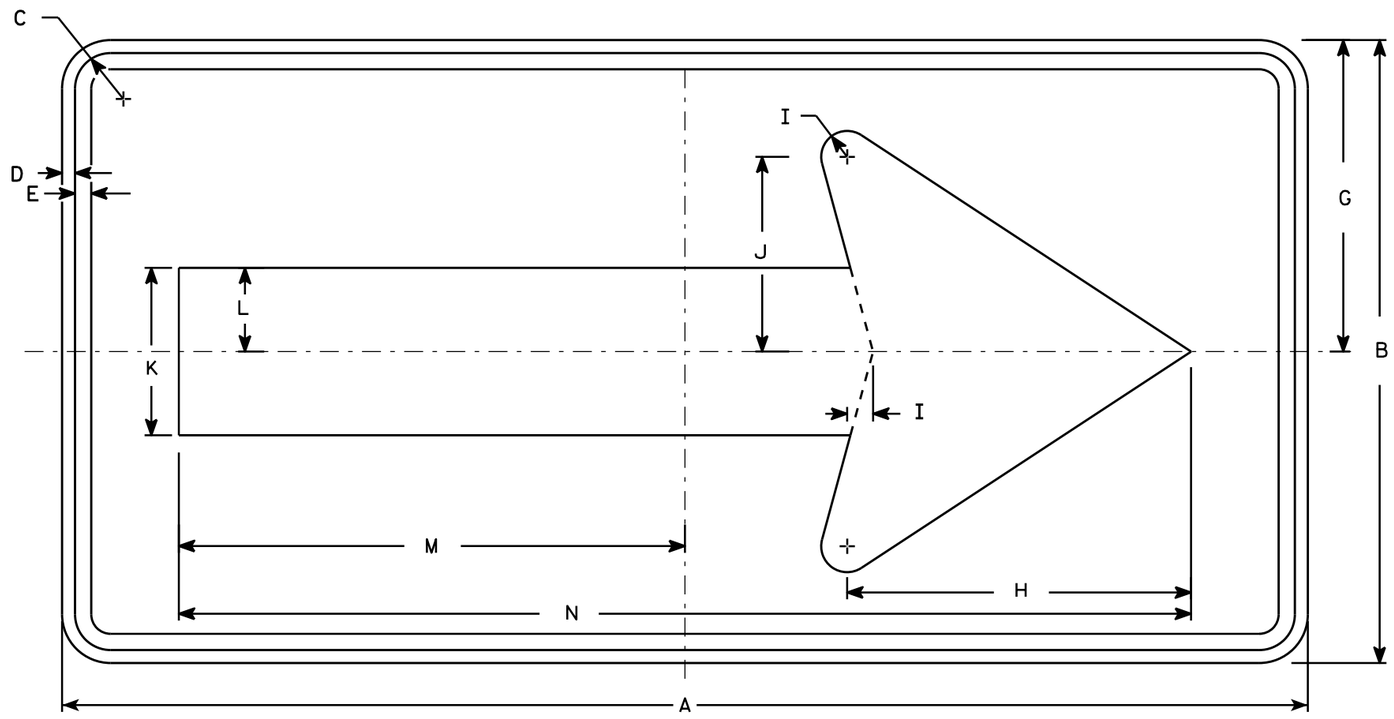
STANDARD SIGN
W01-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE 555 W01-3.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

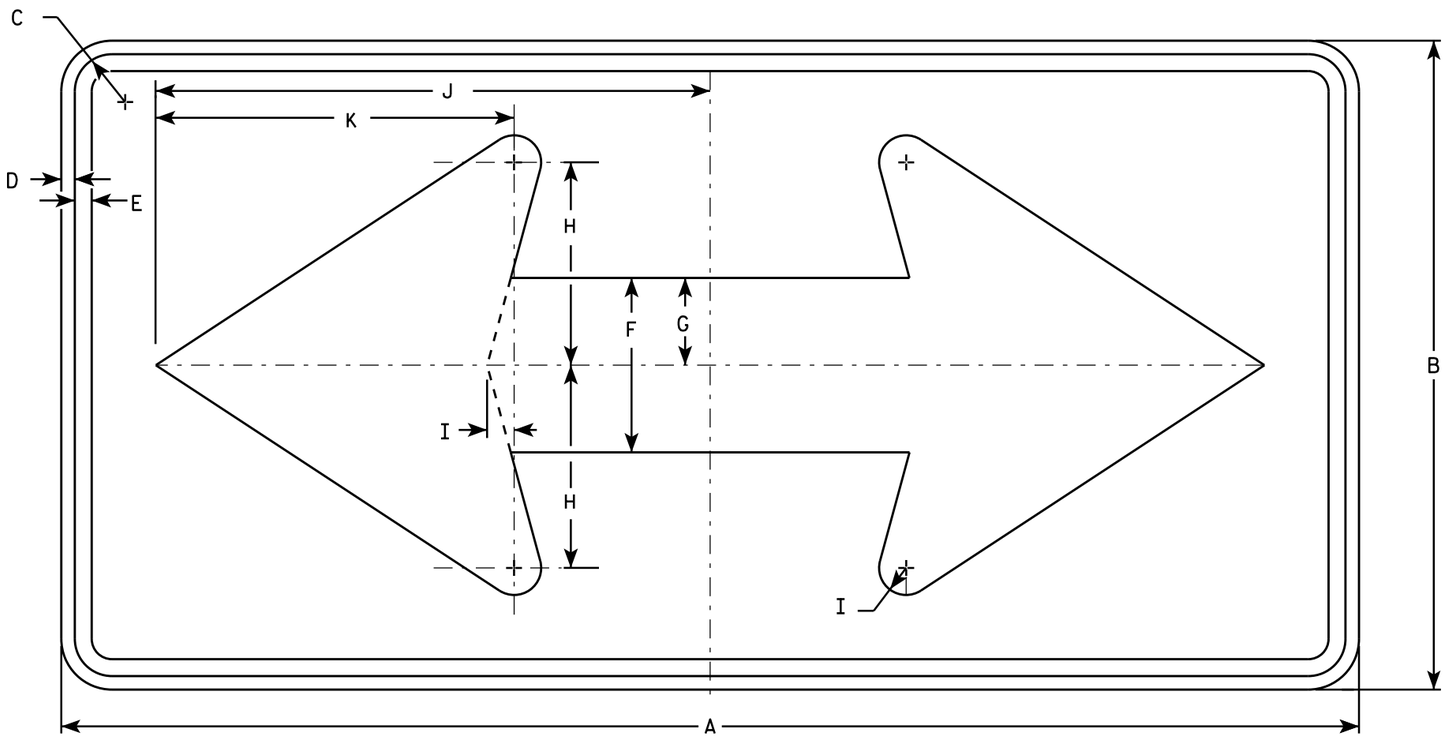
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W01-7

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5

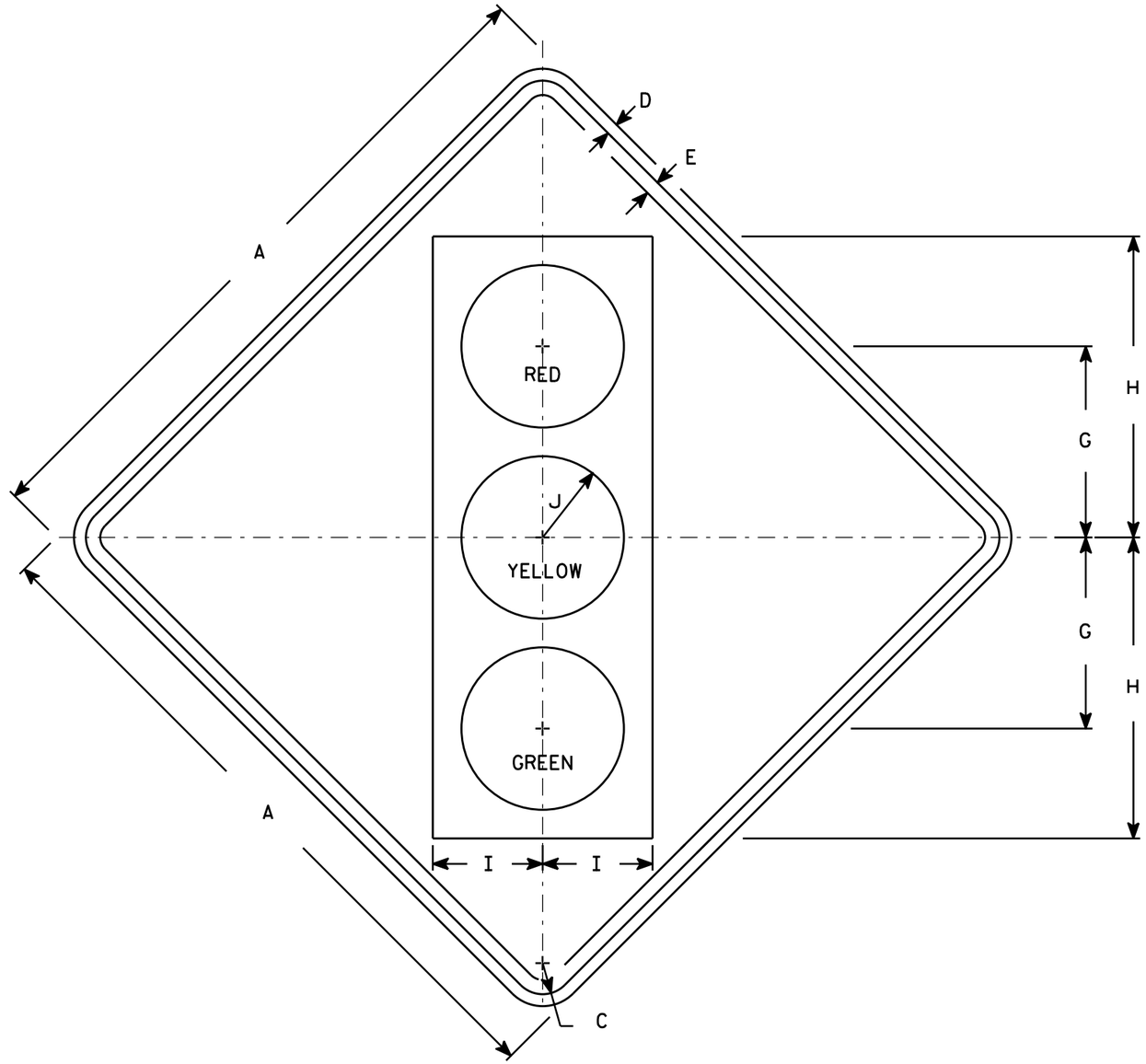
STANDARD SIGN
W01-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE 1557 W01-7.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W03-3

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 - 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	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2S	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
2M	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
3	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
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

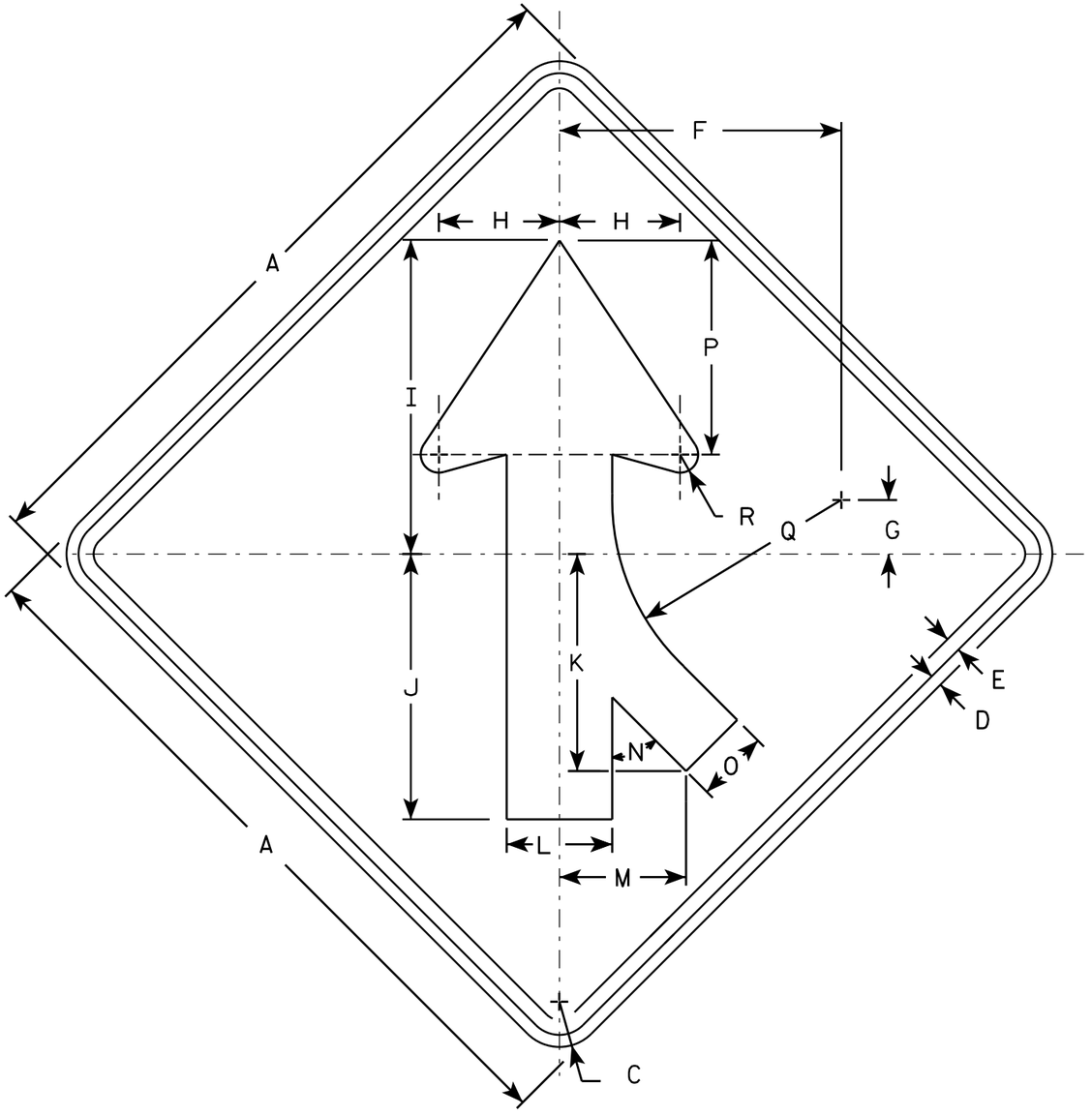
STANDARD SIGN
W03-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLAT 558 W03-3.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W04-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0
2S	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
2M	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
3	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0

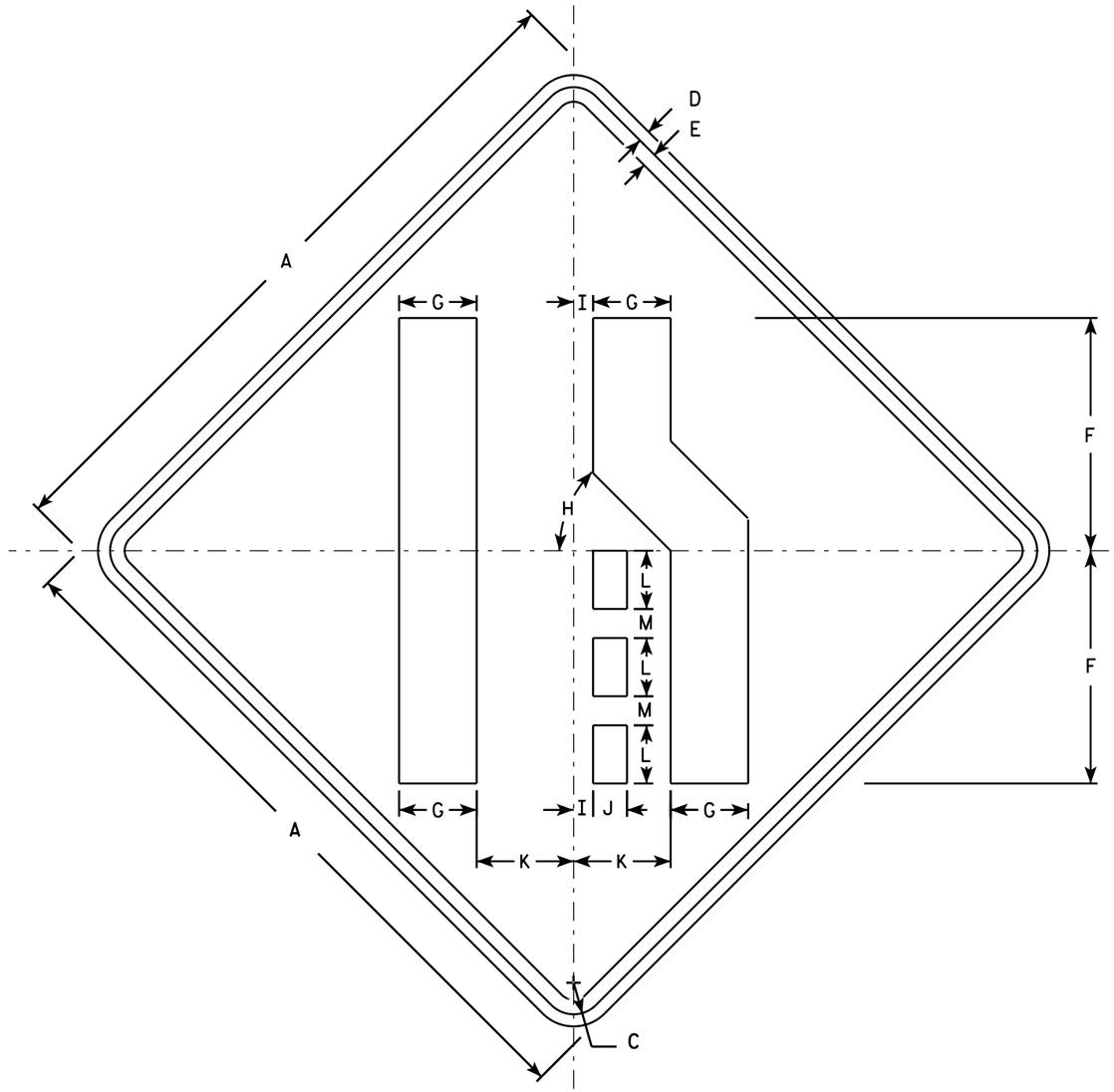
STANDARD SIGN
W04-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO. W04-1.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

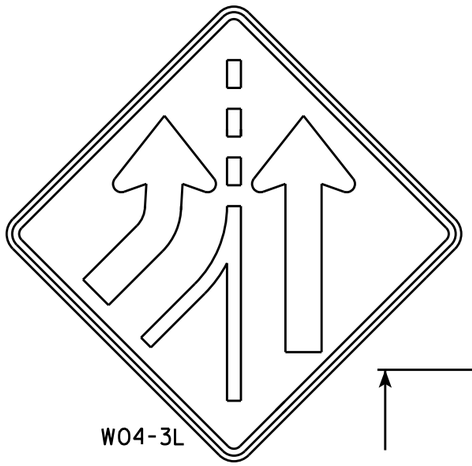
STANDARD SIGN
W04-2

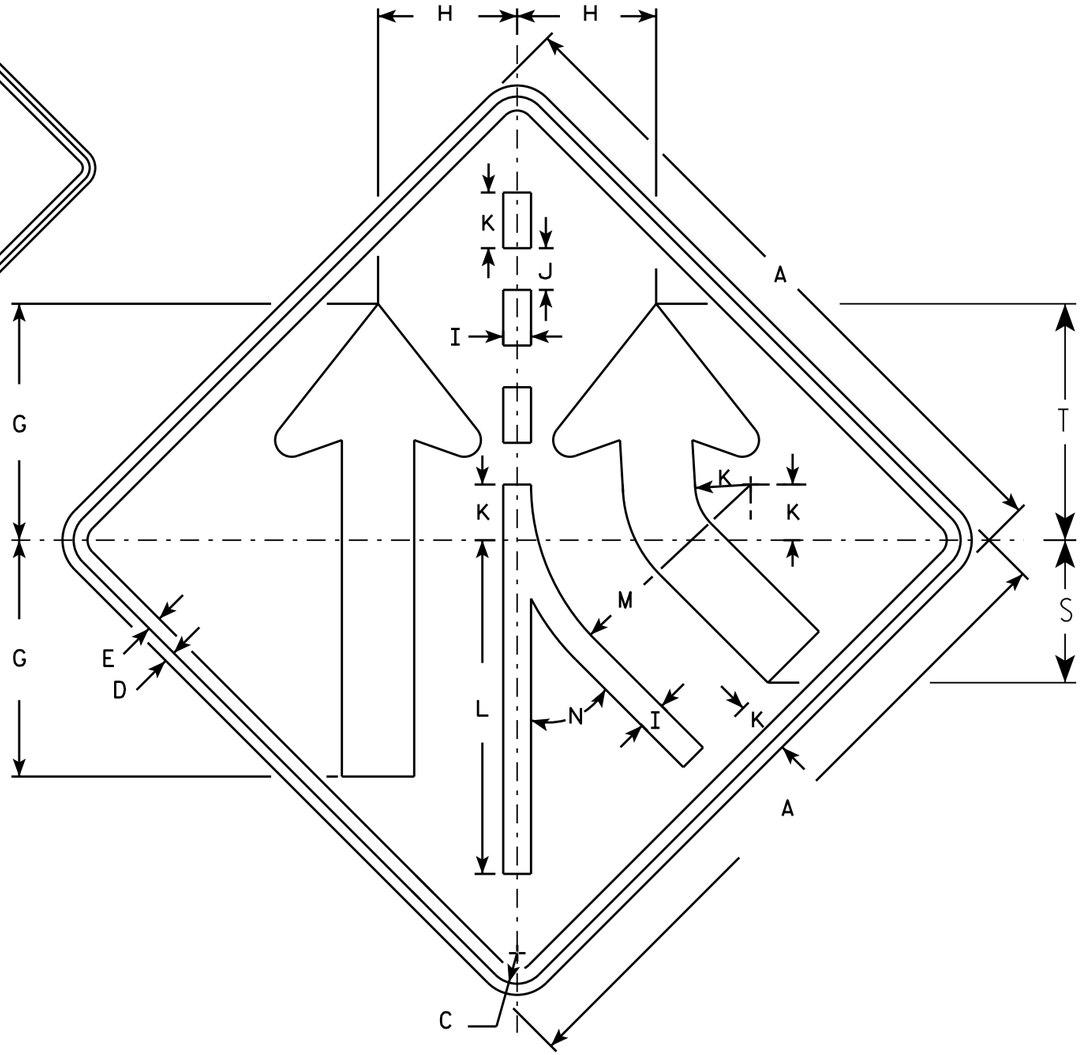
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 560 W04-2.1

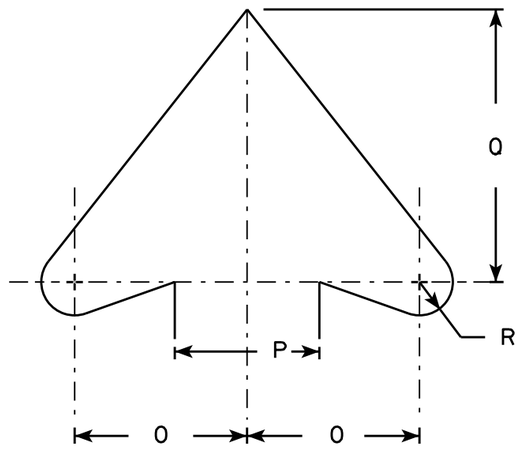
PROJECT NO: | SHEET NO: E





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.
4. W04-3 L is the same as W04-3 R except the arrow is reversed along the vertical centerline.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		12 3/4	7 1/2	1 1/2	2 1/4	3	18	11 7/8	45°	4 5/8	4	7 3/8	7/8	7 3/4	12 3/4							9.0
2S	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
2M	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
3	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
4	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0
5	48		2 1/4	3/4	1		17	10	2	3	4	24	15 3/4	45°	6 1/4	5 1/2	9 7/8	1 1/4	10 1/4	17							16.0

STANDARD SIGN

W0433

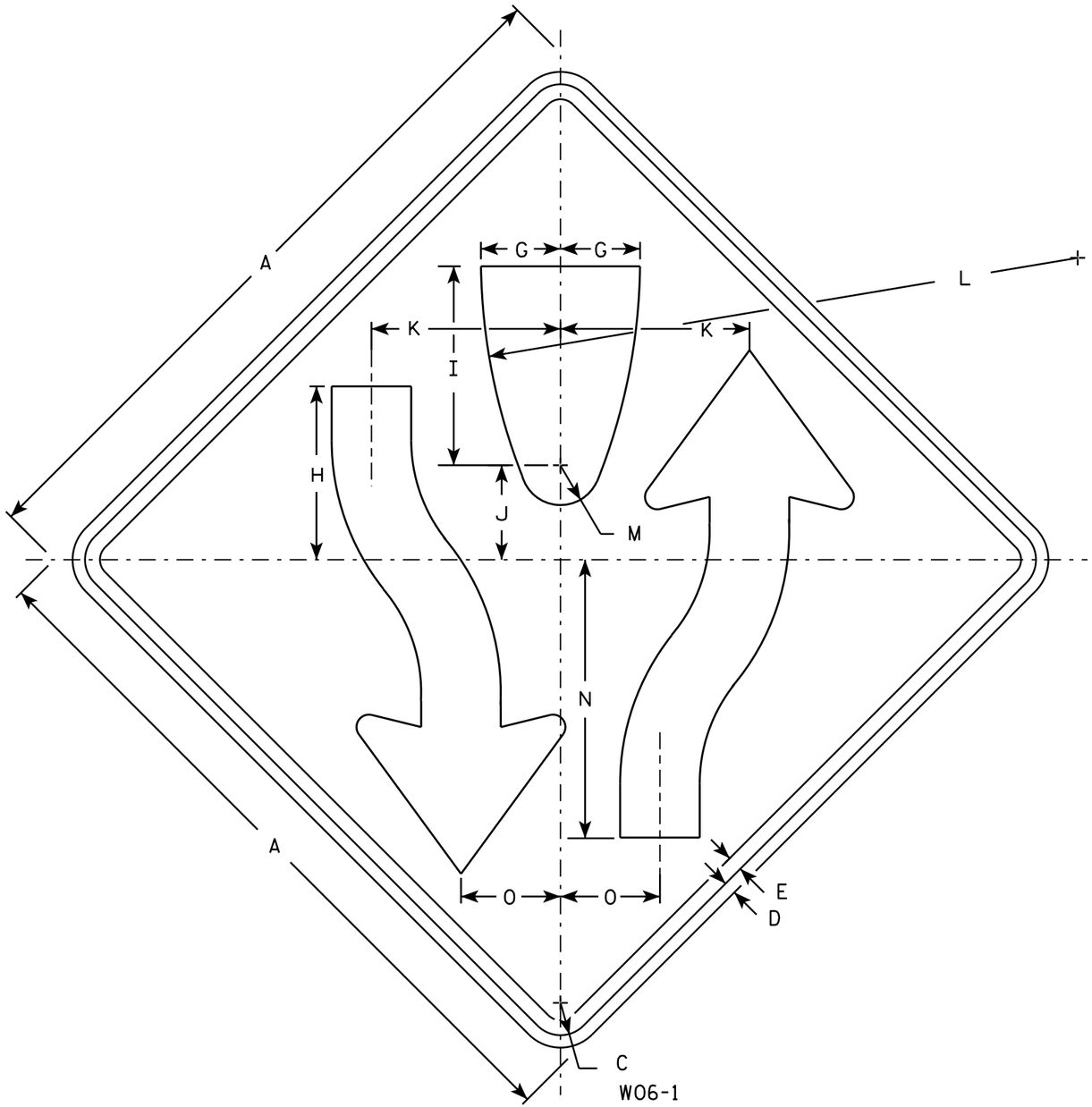
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/20/13 PLATE W04-3.1

PROJECT NO:

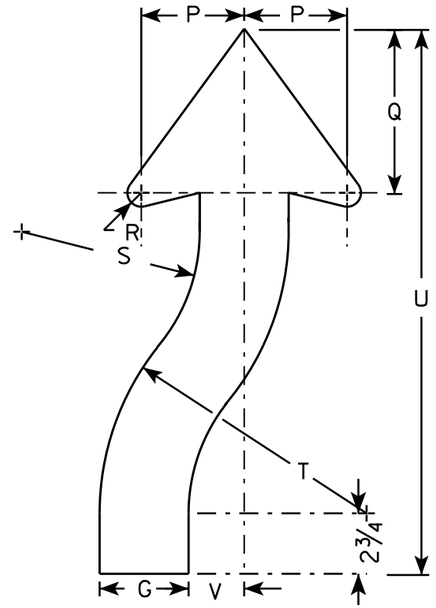
SHEET NO: E



W06-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W06-2 same as W06-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2S	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
2M	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
3	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W06-1 & W06-2

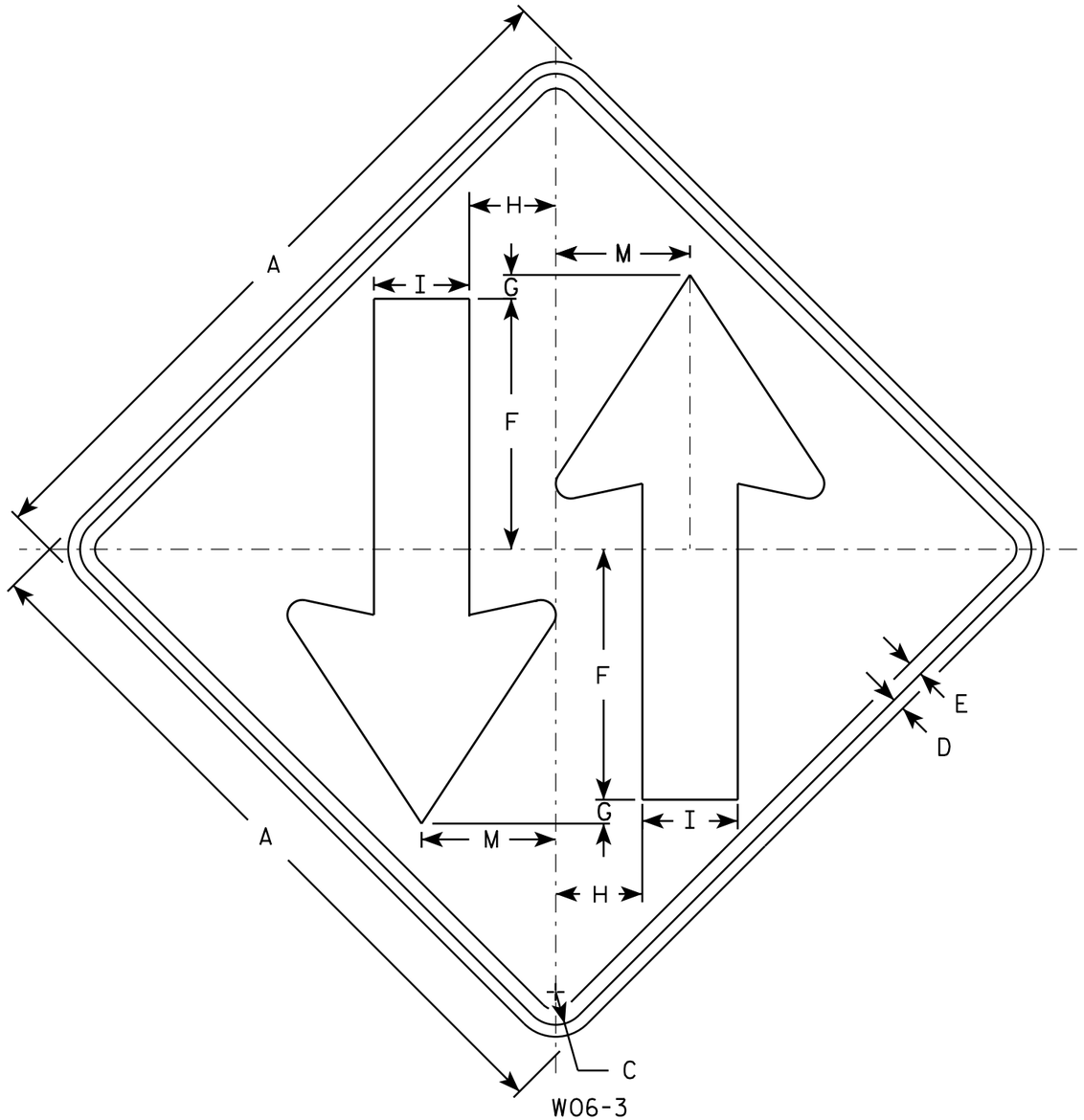
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO W06-1.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

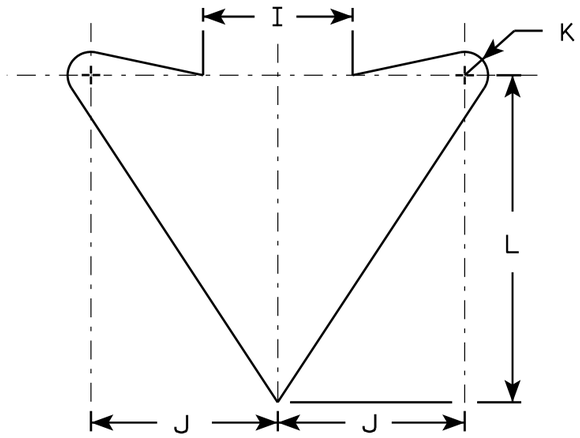
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W061.DGN PLOT DATE : 20-NOV-2013 12:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.810449:1.000000
WISDOT/CADDS SHEET 42



W06-3

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.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
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

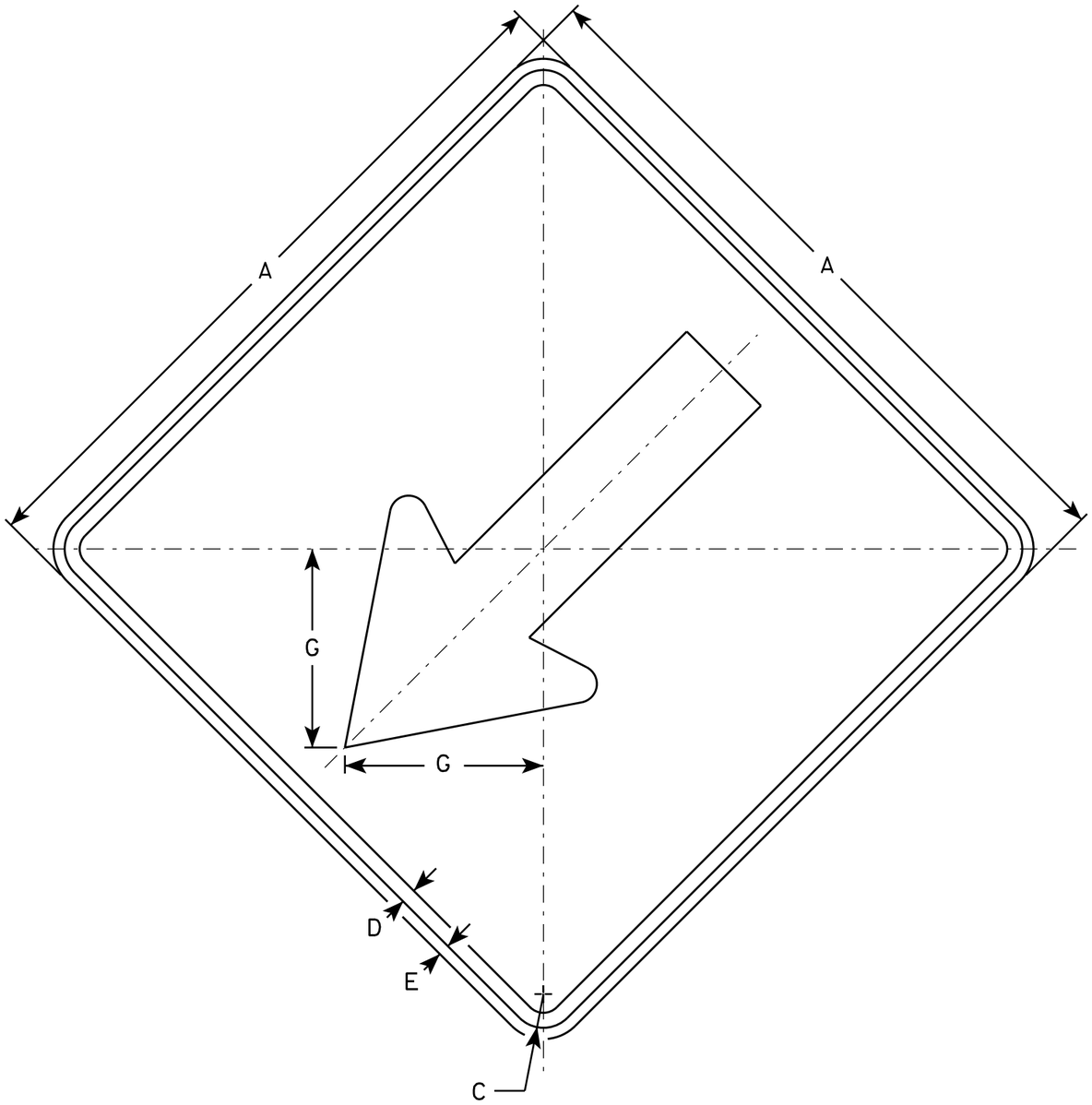
STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 563 W06-3.1

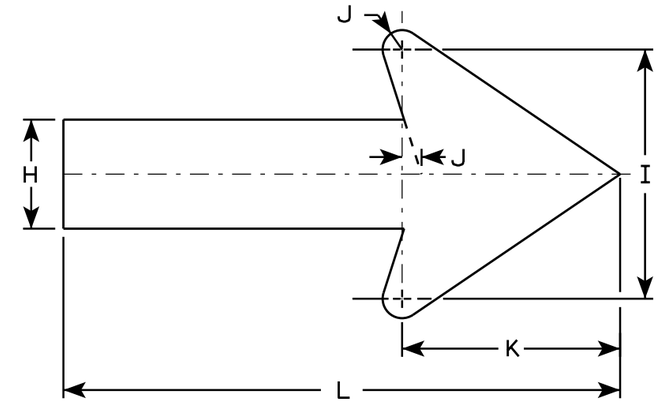
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W012-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - 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.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/4	3/4	5/8		10 3/8	5 1/2	12 1/2	1	11	27 7/8															9.0
2S	48		2 1/4	3/4	1		12 1/2	6 5/8	15	1 1/4	13 1/4	33 1/2															16
2M	48		2 1/4	3/4	1		12 1/2	6 5/8	15	1 1/4	13 1/4	33 1/2															16
3	48		2 1/4	3/4	1		12 1/2	6 5/8	15	1 1/4	13 1/4	33 1/2															16
4	48		2 1/4	3/4	1		12 1/2	6 5/8	15	1 1/4	13 1/4	33 1/2															16
5	48		2 1/4	3/4	1		12 1/2	6 5/8	15	1 1/4	13 1/4	33 1/2															16

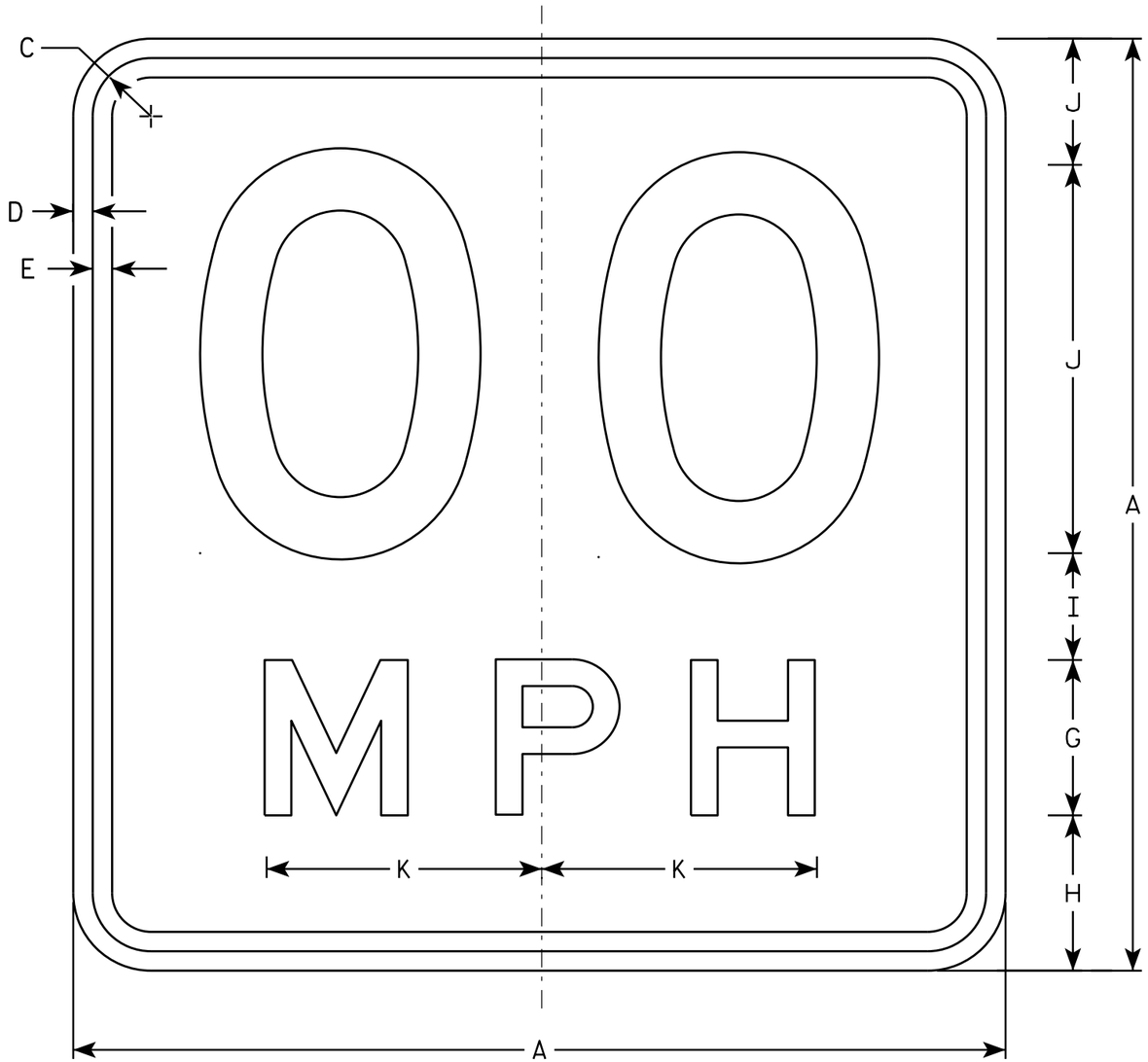
STANDARD SIGN
W012-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/20/13 PLA 564 W012-1.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
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
W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/13 PLATE 565 W013-1.1

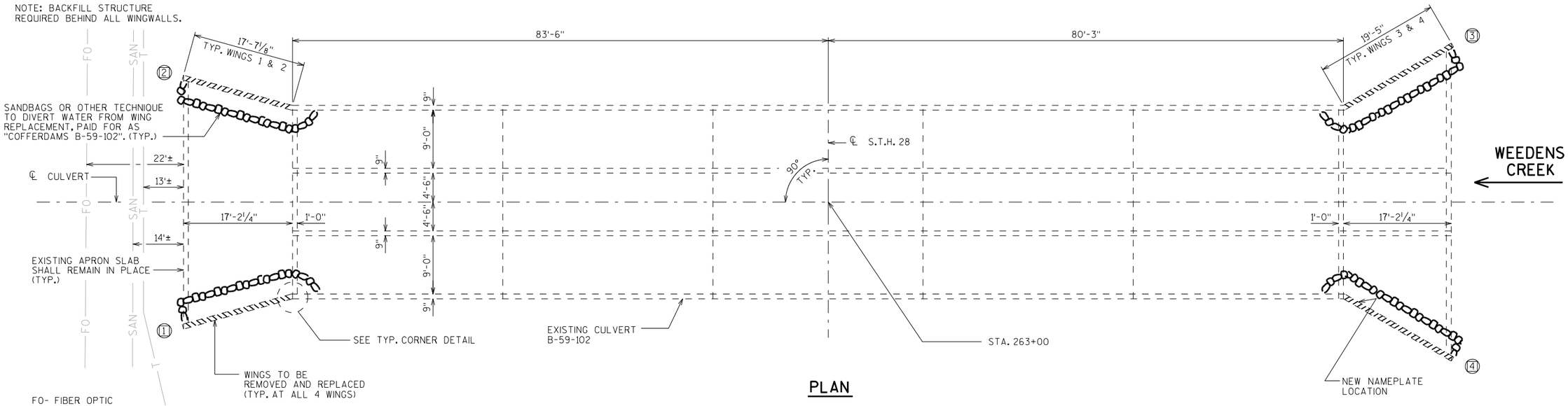
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

STATE PROJECT NUMBER

4640-05-71

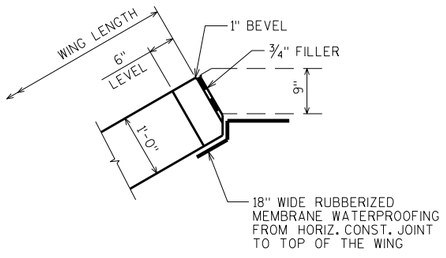
INDICATES WING NUMBER

NOTE: BACKFILL STRUCTURE REQUIRED BEHIND ALL WINGWALLS.

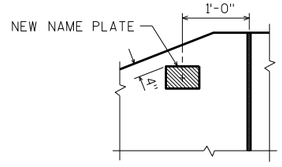


FO- FIBER OPTIC
SAN- SANITARY SEWER
T- TELECOMMUNICATION

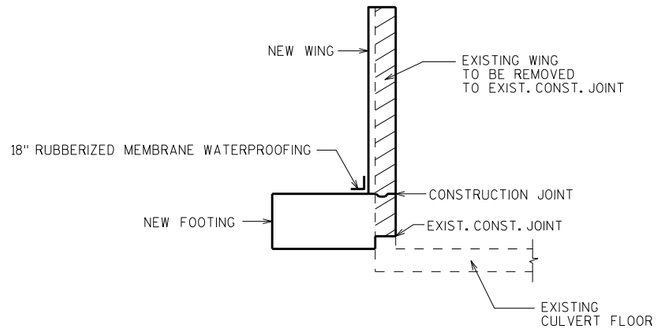
PLAN



TYP. CORNER DETAIL



NAME PLATE LOCATION



TYP. SECTION THRU WING

DESIGN DATA

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY, GRADE A-FA ——— f'_c = 3,500 P.S.I.

HIGH STRENGTH BAR STEEL REINFORCEMENT — f_y = 60,000 P.S.I.

TOTAL ESTIMATED QUANTITIES

203.0200	REMOVING OLD STRUCTURE STA. 263+00.00	1 LS
206.2000	EXCAVATION FOR STRUCTURES CULVERTS B-59-102	1 LS
206.5000	COFFERDAMS B-59-102	1 LS
210.0100	BACKFILL STRUCTURE	140 CY
502.5002	MASONRY ANCHORS TYPE L NO. 4 BARS	76 EACH
504.0100	CONCRETE MASONRY CULVERTS	34 CY
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	790 LB
506.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	1710 LB
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	21 SY

LIST OF DRAWINGS

1. WING REPLACEMENT
2. WING 1 & 2 REPLACEMENT DETAILS
3. WING 3 & 4 REPLACEMENT DETAILS

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

AT CULVERT, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

AT THE BACKFACE OF WINGWALLS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE WINGWALL CONSTRUCTION, AND IS NOT OCCUPIED BY THE NEW STRUCTURE, SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING ORIGINAL STRUCTURE PLANS.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE TO SHOW ORIGINAL CONSTRUCTION YEAR 1990.

STRUCTURE DESIGN CONTACTS:
NICK RICE (608) 266-5092
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 11/23/15
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-59-102

S.T.H. 28 OVER WEEDENS CREEK

COUNTY: SHEBOYGAN	TOWN/~~CITY/VILLAGE~~: WILSON		
DESIGN SPEC.: REHABILITATION	N/A		
DESIGNED BY: ML	DESIGN CK'D.: NAR	DRAWN BY: WWR	PLANS CK'D.: NAR

WING REPLACEMENT

SHEET 1 OF 3

566

I.D. 4640-05-00

DATE: **NOV. 2015**

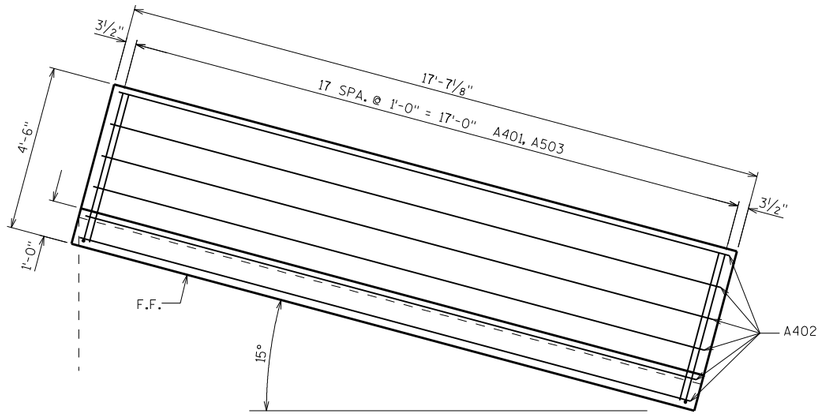
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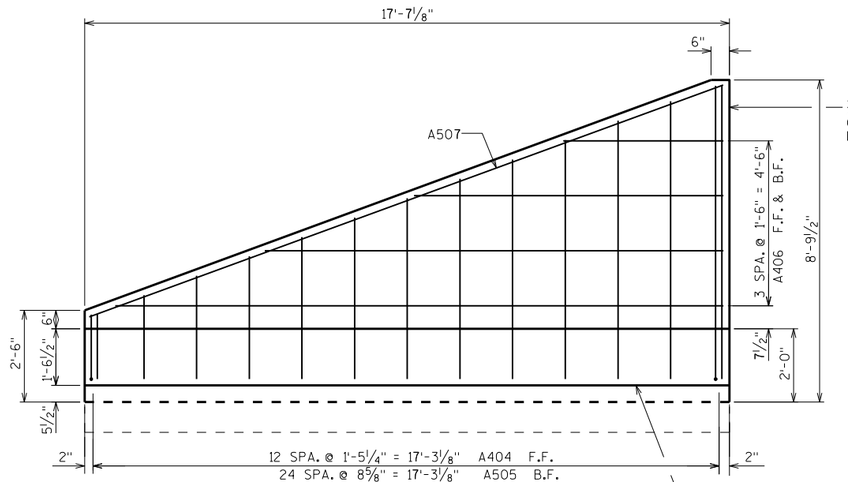
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STATE PROJECT NUMBER

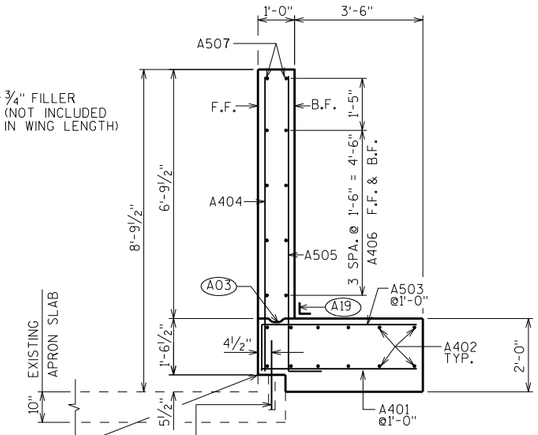
4640-05-71



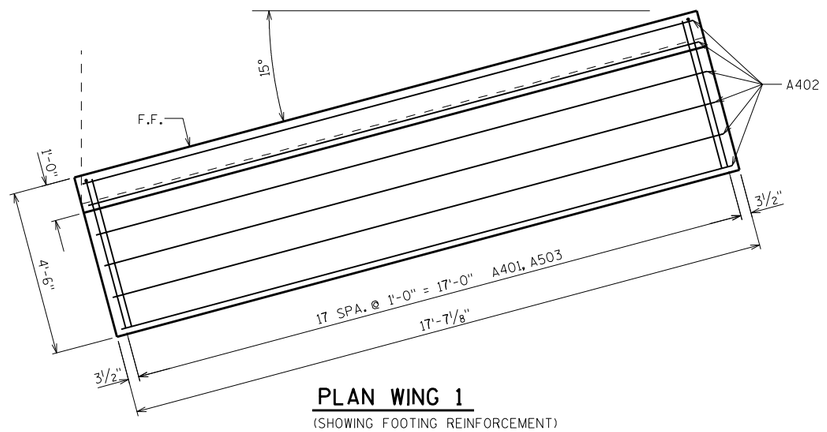
PLAN WING 2
(SHOWING FOOTING REINFORCEMENT)



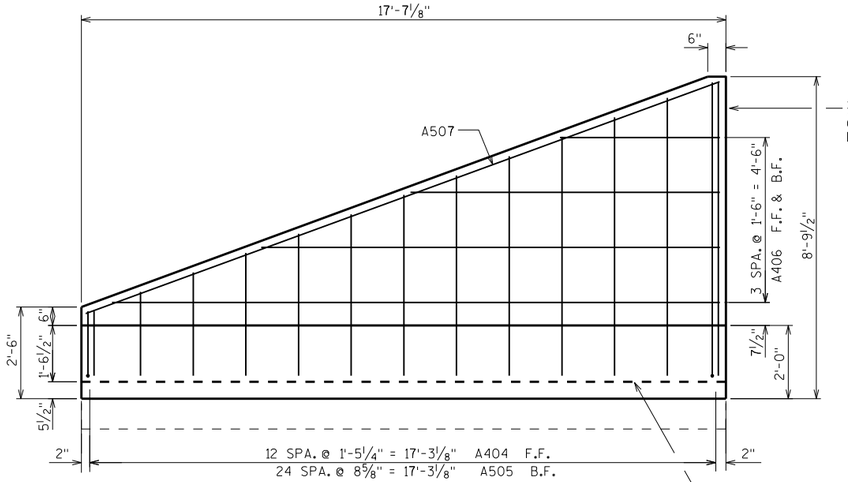
F.F. ELEVATION WING 2
(SHOWING WALL REINFORCEMENT)



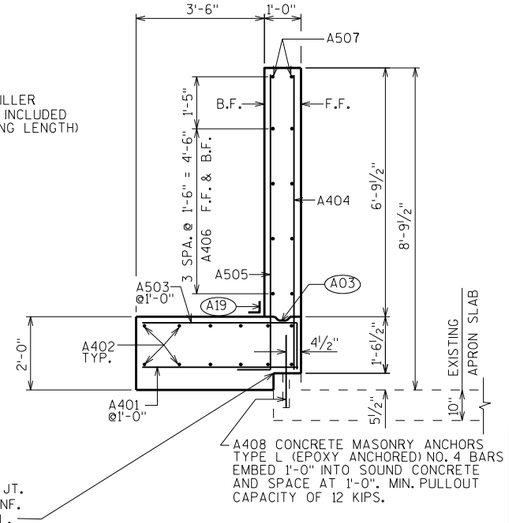
SECTION THRU WING 2



PLAN WING 1
(SHOWING FOOTING REINFORCEMENT)



B.F. ELEVATION WING 1
(SHOWING WALL REINFORCEMENT)



SECTION THRU WING 1

BILL OF BARS

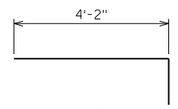
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

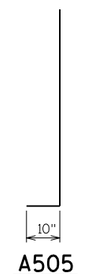
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A401		36	4'-2"			FOOTING-BOTTOM-TRANS.
A402		24	17'-3"			FOOTING-LONGIT.
A503		36	5'-3"	X		FOOTING-TOP-TRANS.
A404	X	26	4'-11"		⚠	FOOTING/WING-VERT.-F.F.
A505	X	50	5'-8"	X	⚠	FOOTING/WING-VERT.-B.F.
A406		16	10'-6"		⚠	WING 1 & 2- HORIZONTAL-B.F. & F.F.
A507		4	18'-2"			WING 1 & 2 -TOP SLOPE-B.F. & F.F.
A408		36	2'-0"			FOOTING-EPOXY ANCHOR DOWEL

⚠ 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. REQD.	LENGTH
A404	2 SERIES OF 13	1'-9" TO 8'-0"
A505	2 SERIES OF 25	2'-6" TO 8'-9"
A406	4 SERIES OF 4	4'-4" TO 16'-7"





(A03) CONST. JOINT: KEYWAY FORMED BY BEVELED 2 × 6. (18" R.M.W. @ B.F.)

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-59-102

DRAWN BY WWR | PLANS CK'D. NAR

WING 1 & 2 REPLACEMENT DETAILS

SHEET 2

567

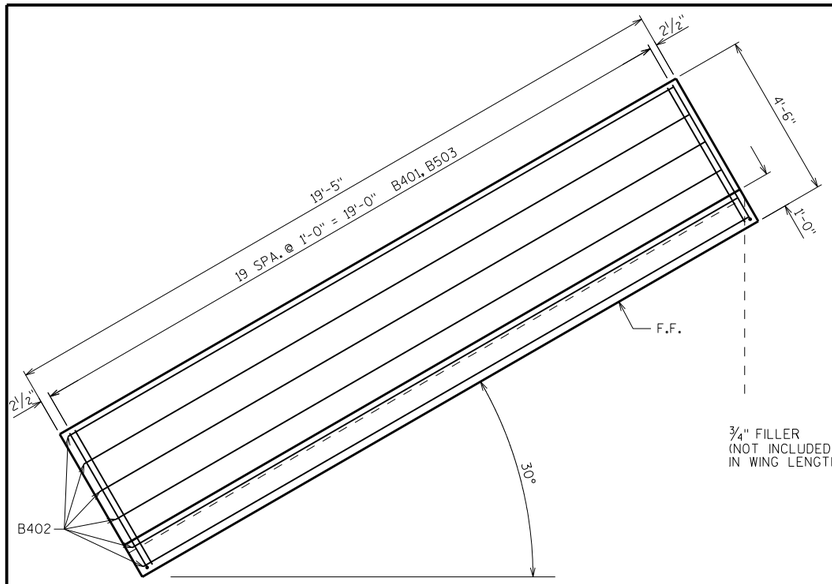
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8

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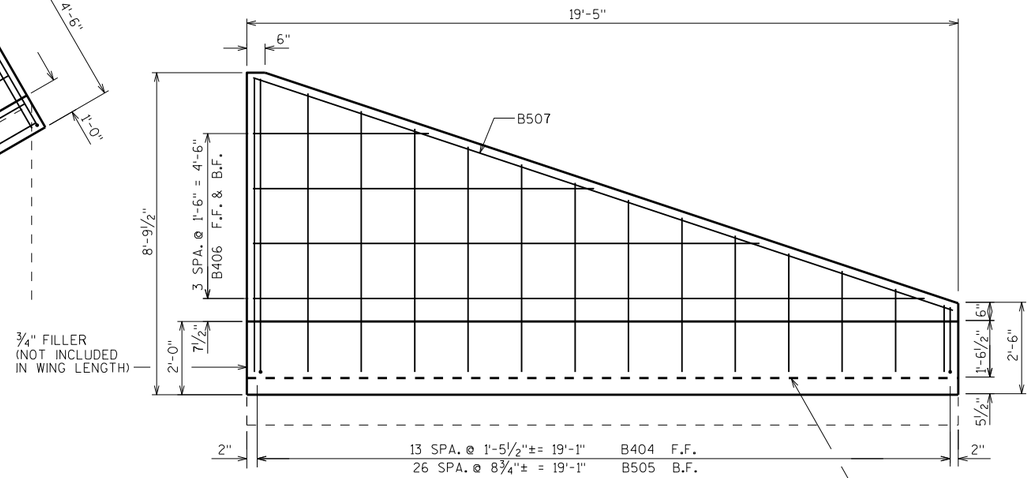
STATE PROJECT NUMBER

4640-05-71



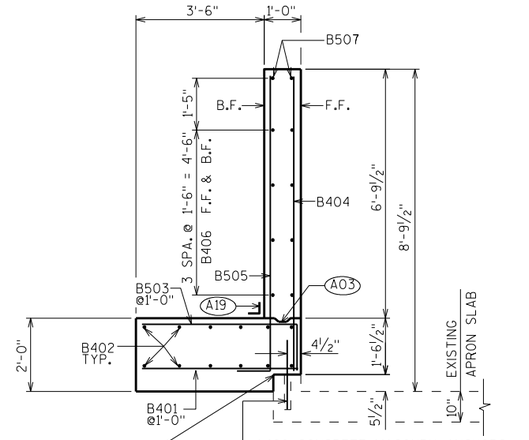
PLAN WING 3

(SHOWING FOOTING REINFORCEMENT)



F.F. ELEVATION WING 3

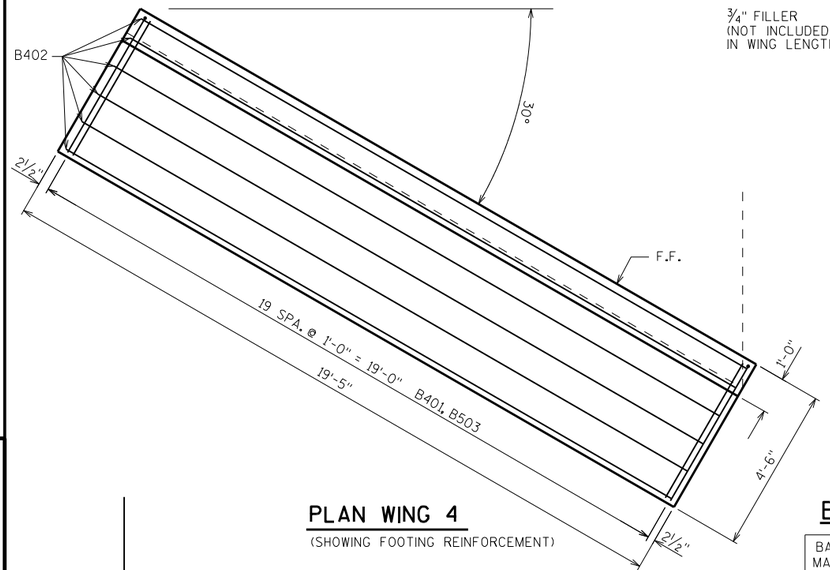
(SHOWING WALL REINFORCEMENT)



A408 CONCRETE MASONRY ANCHORS TYPE L (EPOXY ANCHORED) NO. 4 BARS EMBED 1'-0" INTO SOUND CONCRETE AND SPACE AT 1'-0". MIN. PULLOUT CAPACITY OF 12 KIPS.

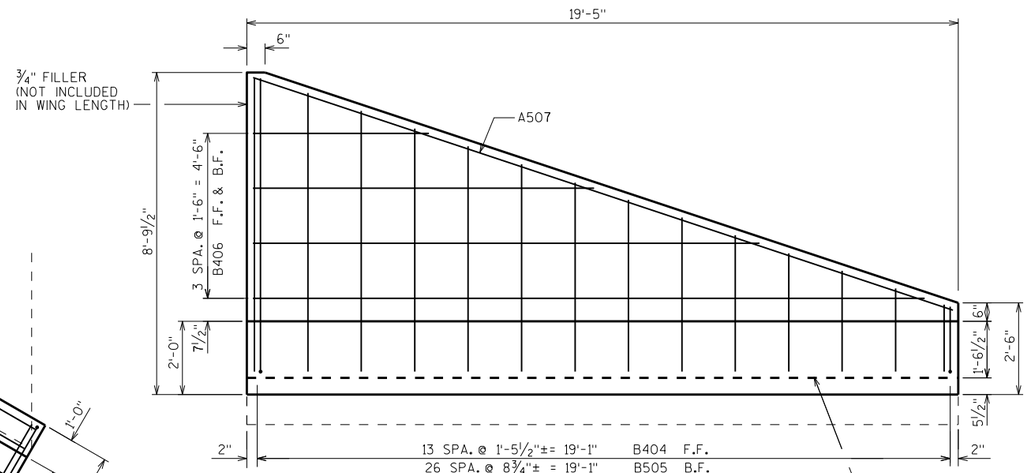
EXIST. HORIZ. CONST. JT. BURN OFF EXIST. REINF. AT LINE OF REMOVAL.

SECTION THRU WING 3



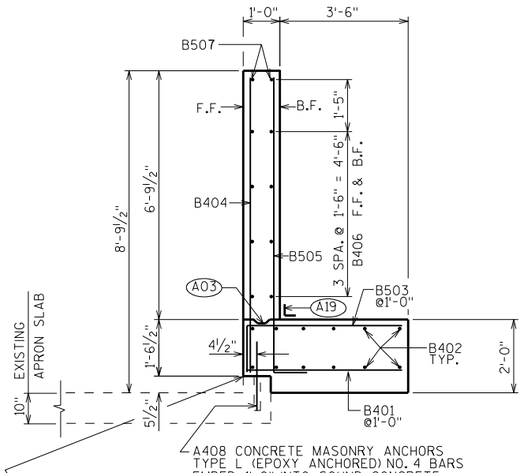
PLAN WING 4

(SHOWING FOOTING REINFORCEMENT)



B.F. ELEVATION WING 4

(SHOWING WALL REINFORCEMENT)



A408 CONCRETE MASONRY ANCHORS TYPE L (EPOXY ANCHORED) NO. 4 BARS EMBED 1'-0" INTO SOUND CONCRETE AND SPACE AT 1'-0". MIN. PULLOUT CAPACITY OF 12 KIPS.

EXIST. HORIZ. CONST. JT. BURN OFF EXIST. REINF. AT LINE OF REMOVAL.

SECTION THRU WING 4

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
B401		40	4'-2"			FOOTING-BOTTOM-TRANS.
B402		24	19'-1"			FOOTING-LONGIT.
B503		40	5'-3"	X		FOOTING-TOP-TRANS.
B404	X	28	4'-11"		◭	FOOTING/WING-VERT.-F.F.
B505	X	54	5'-7"	X	◭	FOOTING/WING-VERT.-B.F.
B406		16	11'-6"		◭	WING 3 & 4-HORIZONTAL B.F. & F.F.
B507		4	19'-11"			WING 3 & 4-TOP SLOPE B.F. & F.F.
B408		40	2'-0"			FOOTING-EPOXY ANCHOR DOWEL

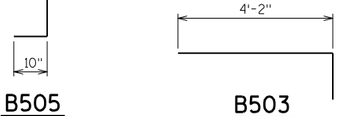
◭ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
B404	2 SERIES OF 14	1'-9" TO 8'-0"
B505	2 SERIES OF 27	2'-5" TO 8'-9"
B406	4 SERIES OF 4	4'-9" TO 18'-3"

(A03) CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" R.M.W. @ B.F.)

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.



NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-59-102

DRAWN BY WWR | PLANS CK'D. NAR

WING 3 & 4 REPLACEMENT DETAILS

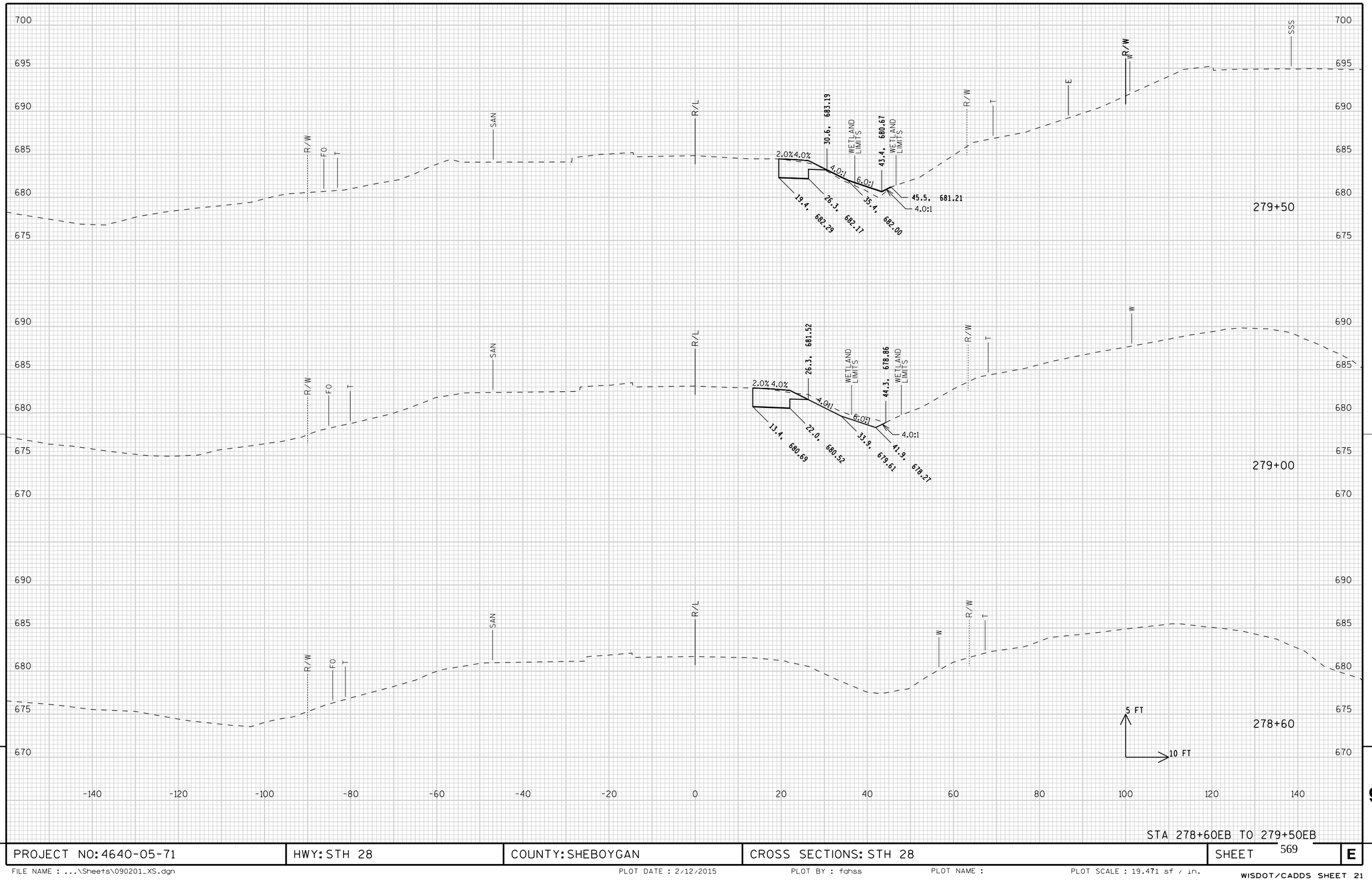
SHEET 3

568

8

8

SCALE =

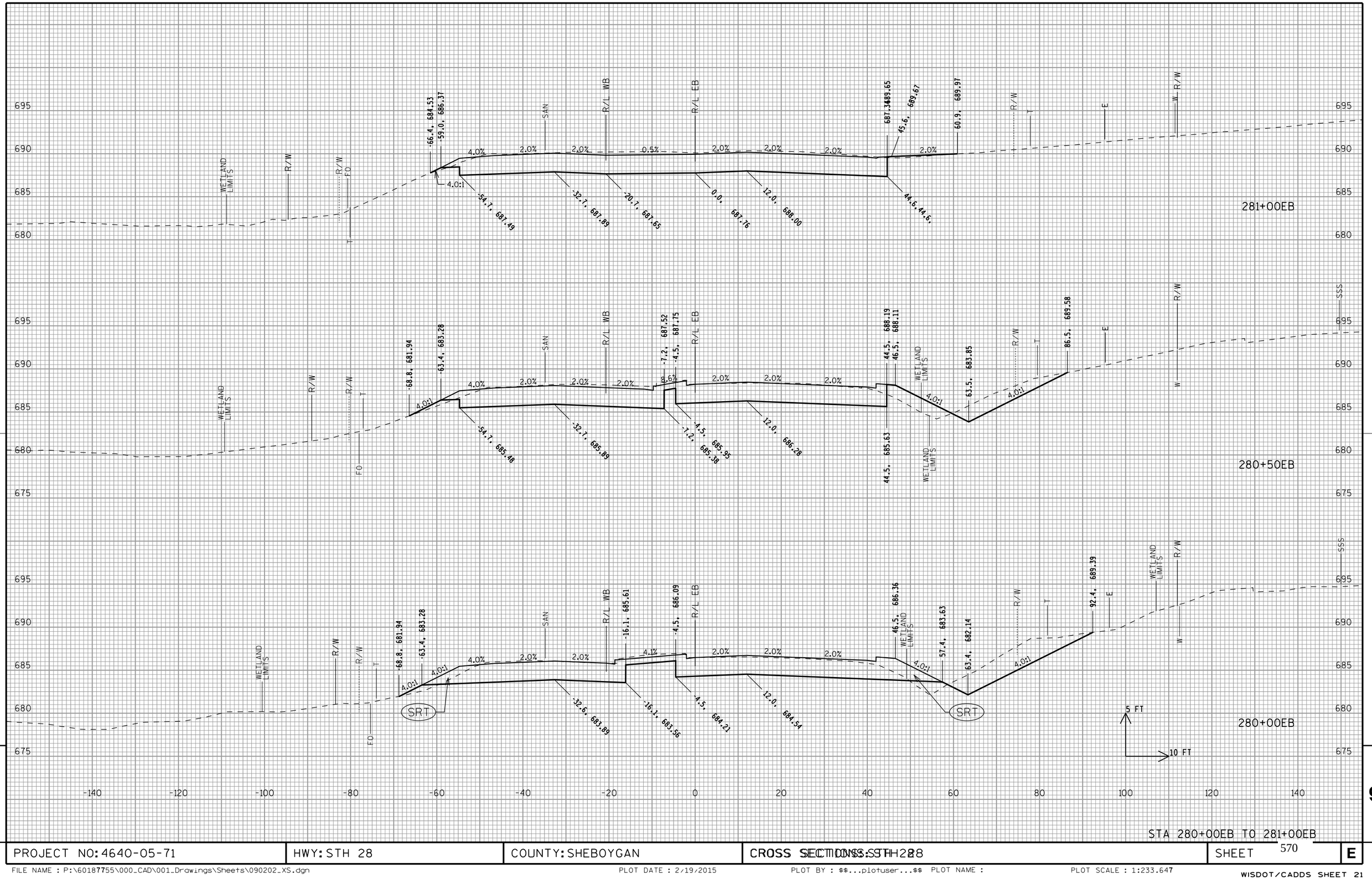


STA 278+60EB TO 279+50EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 569	E

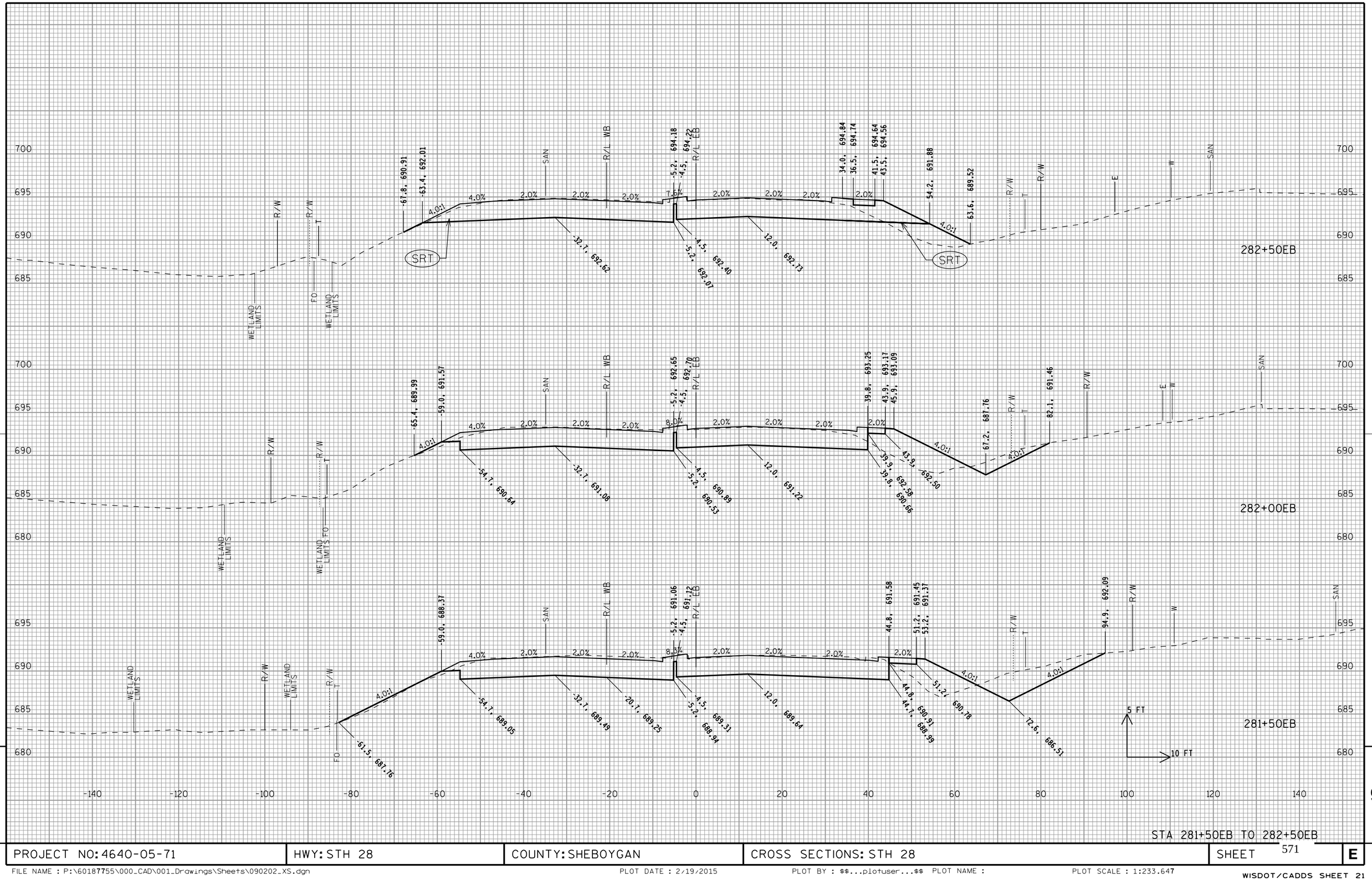
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WISDOT/CADDS SHEET 21



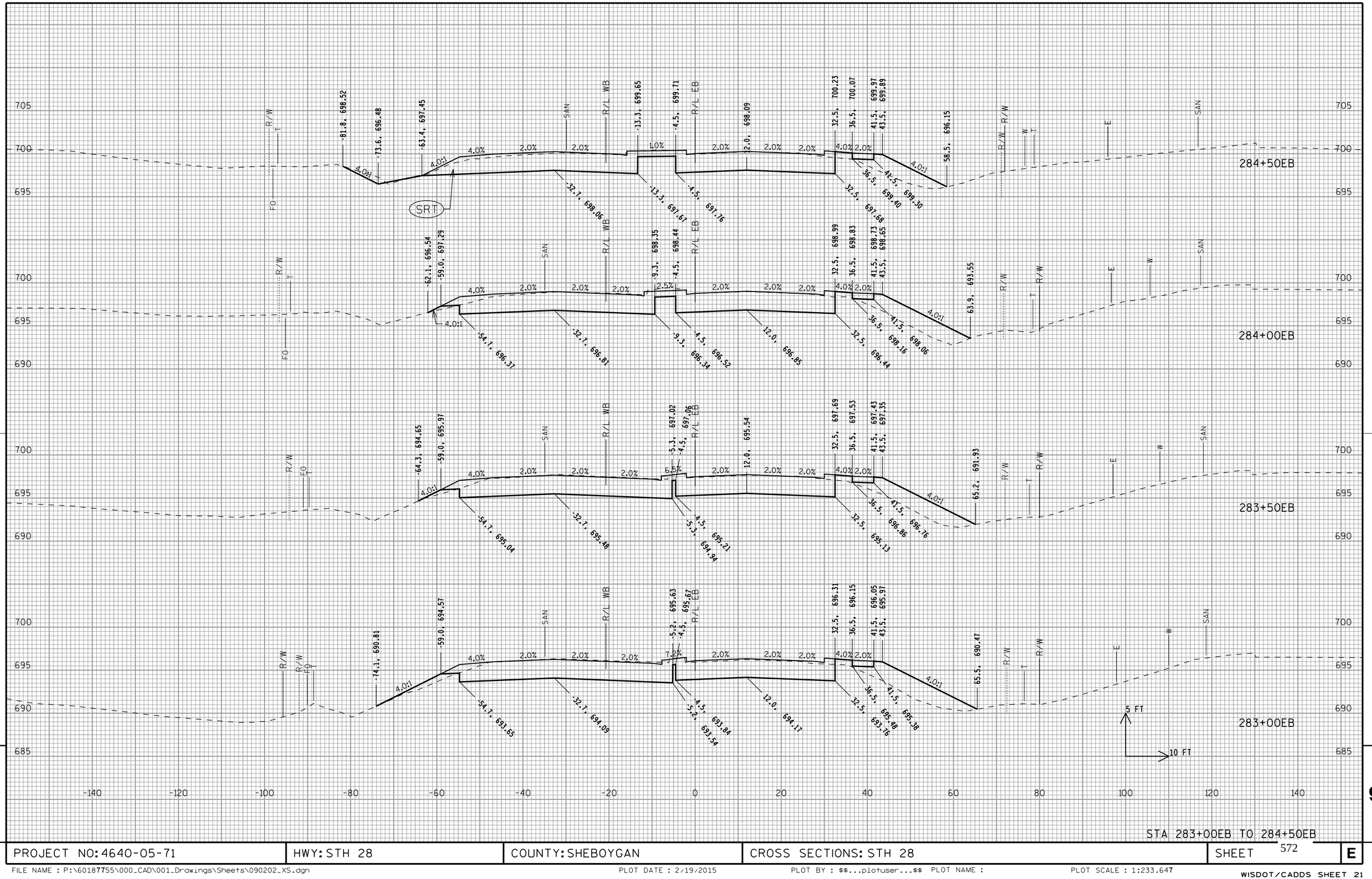
STA 280+00EB TO 281+00EB

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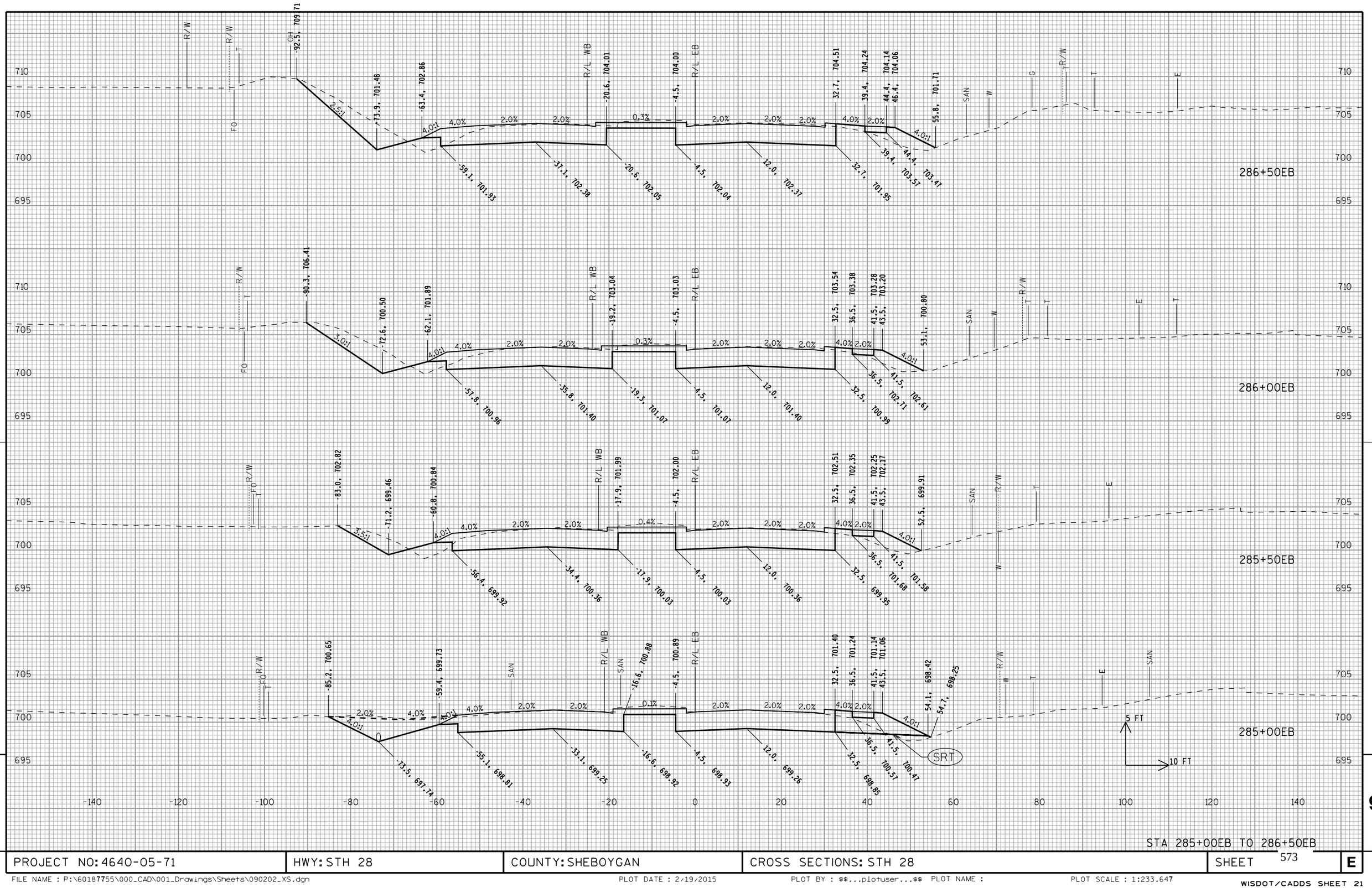
STA 281+50EB TO 282+50EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 571	E



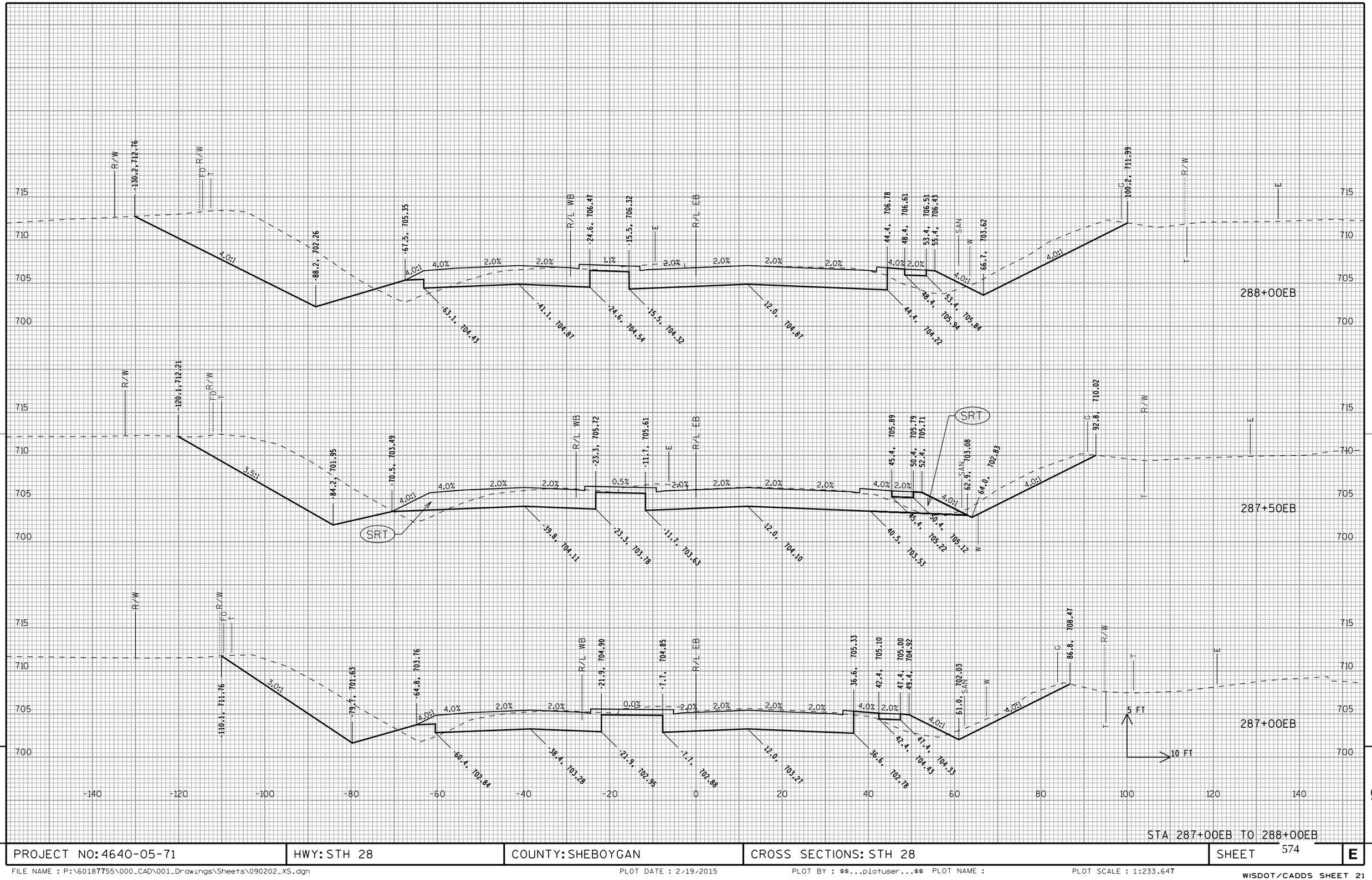
STA 283+00EB TO 284+50EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 572	E



STA 285+00EB TO 286+50EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 573	E



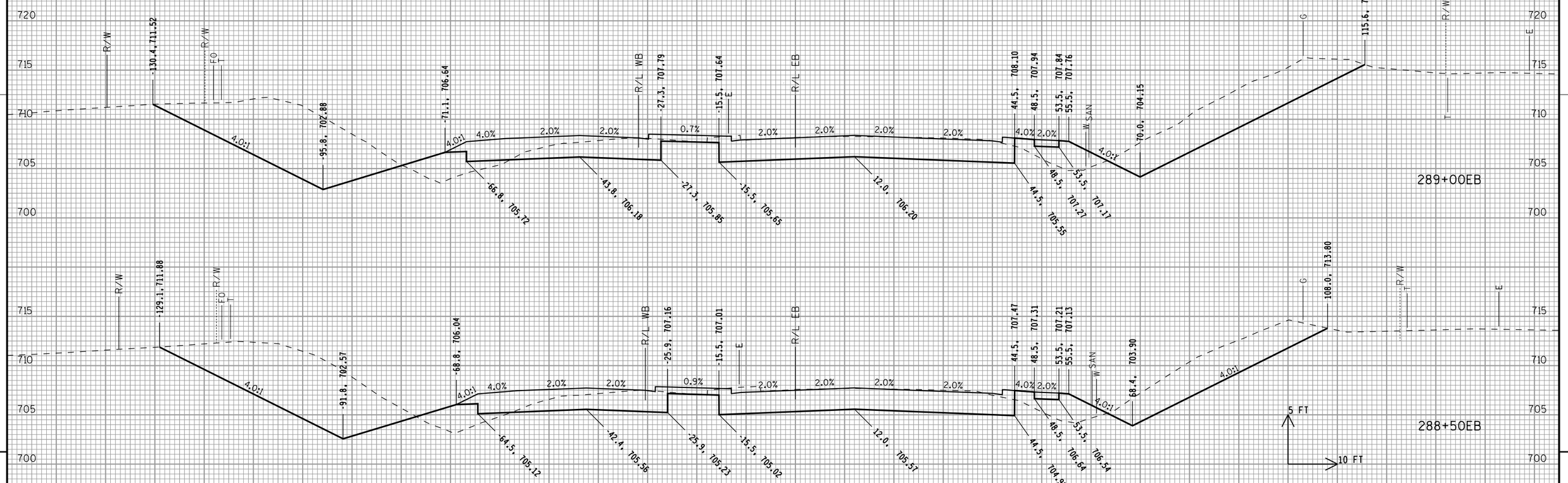
STA 287+00EB TO 288+00EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 574	E

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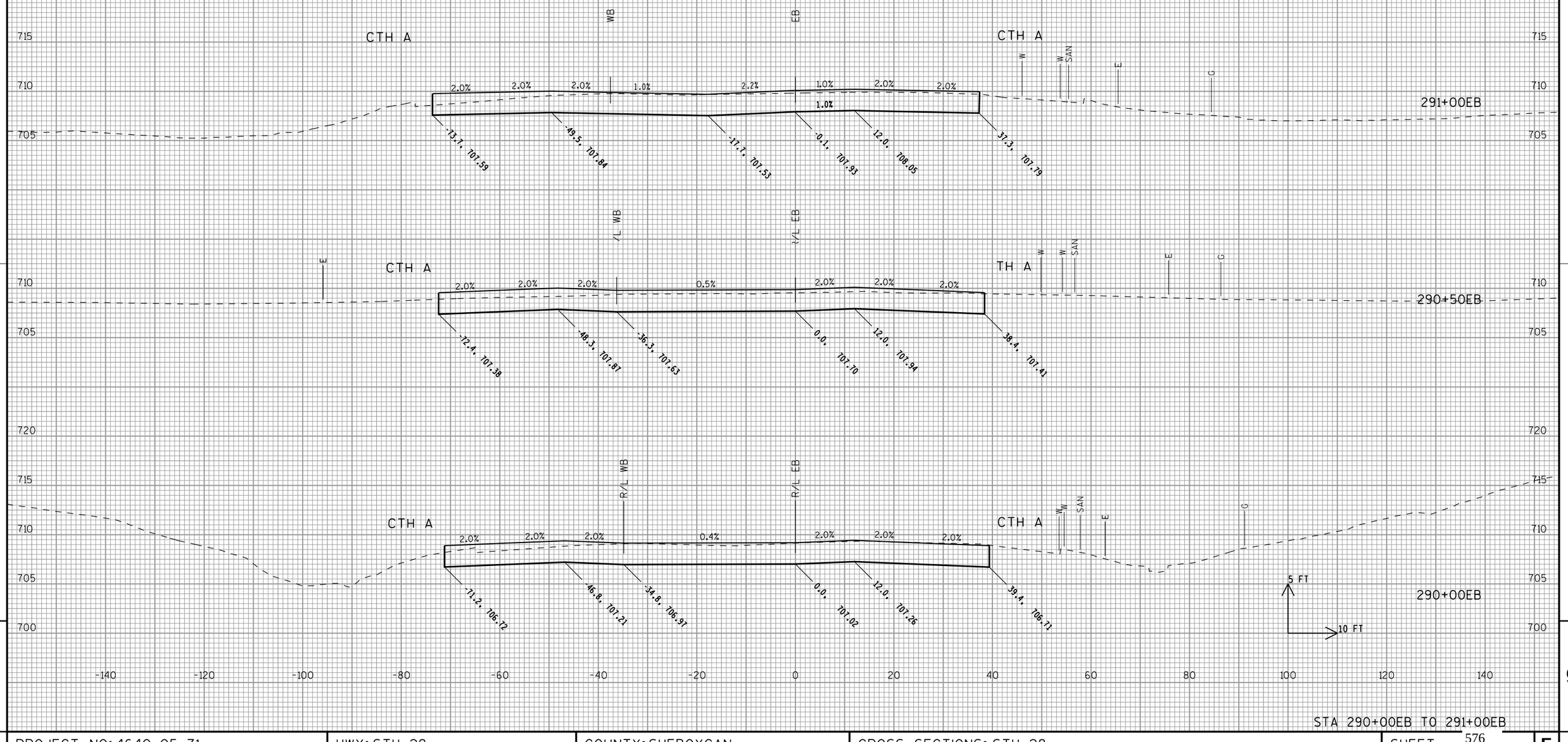
WISDOT/CADDS SHEET 21





STA 288+50EB TO 289+50EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 575	E

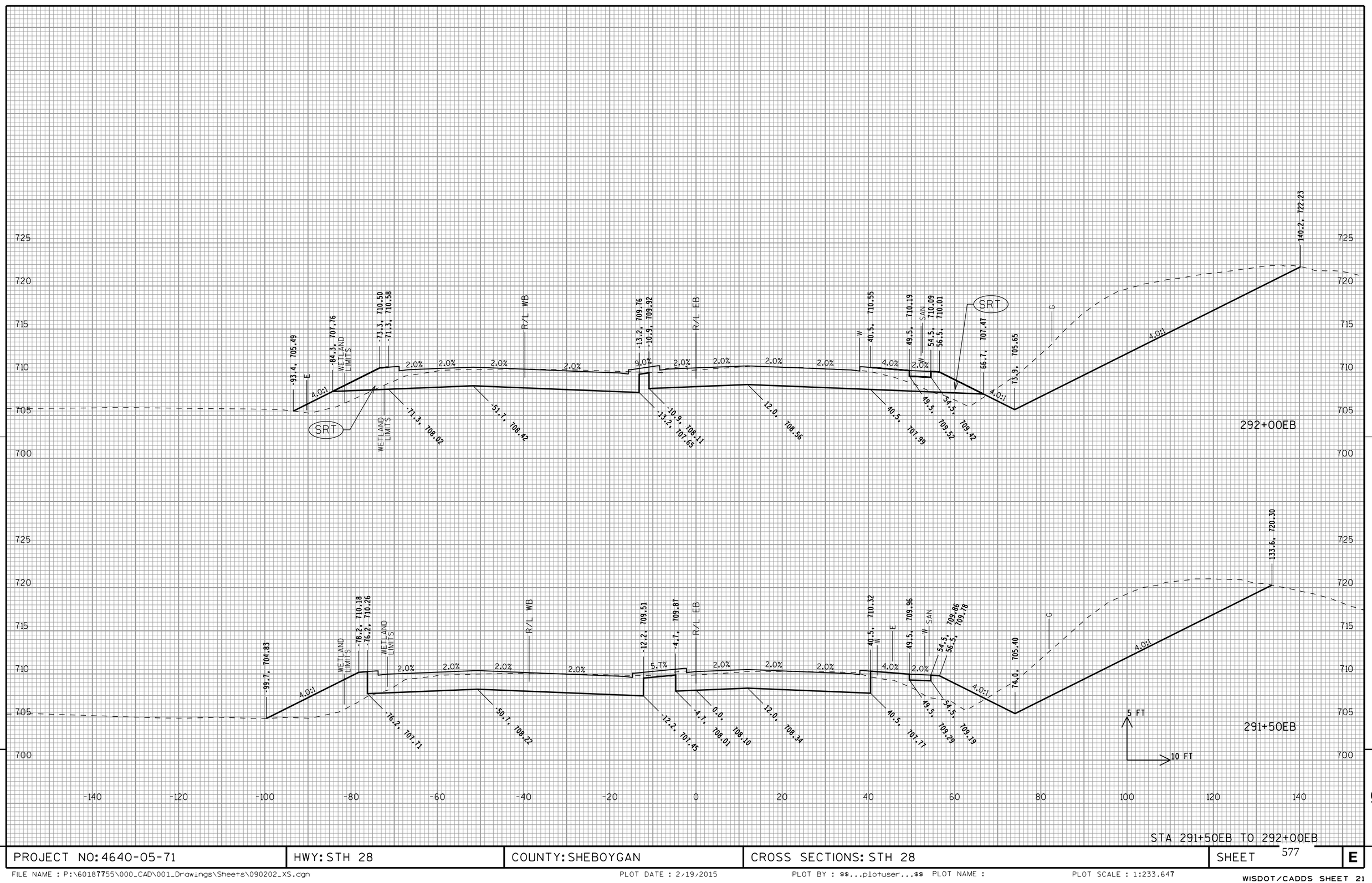


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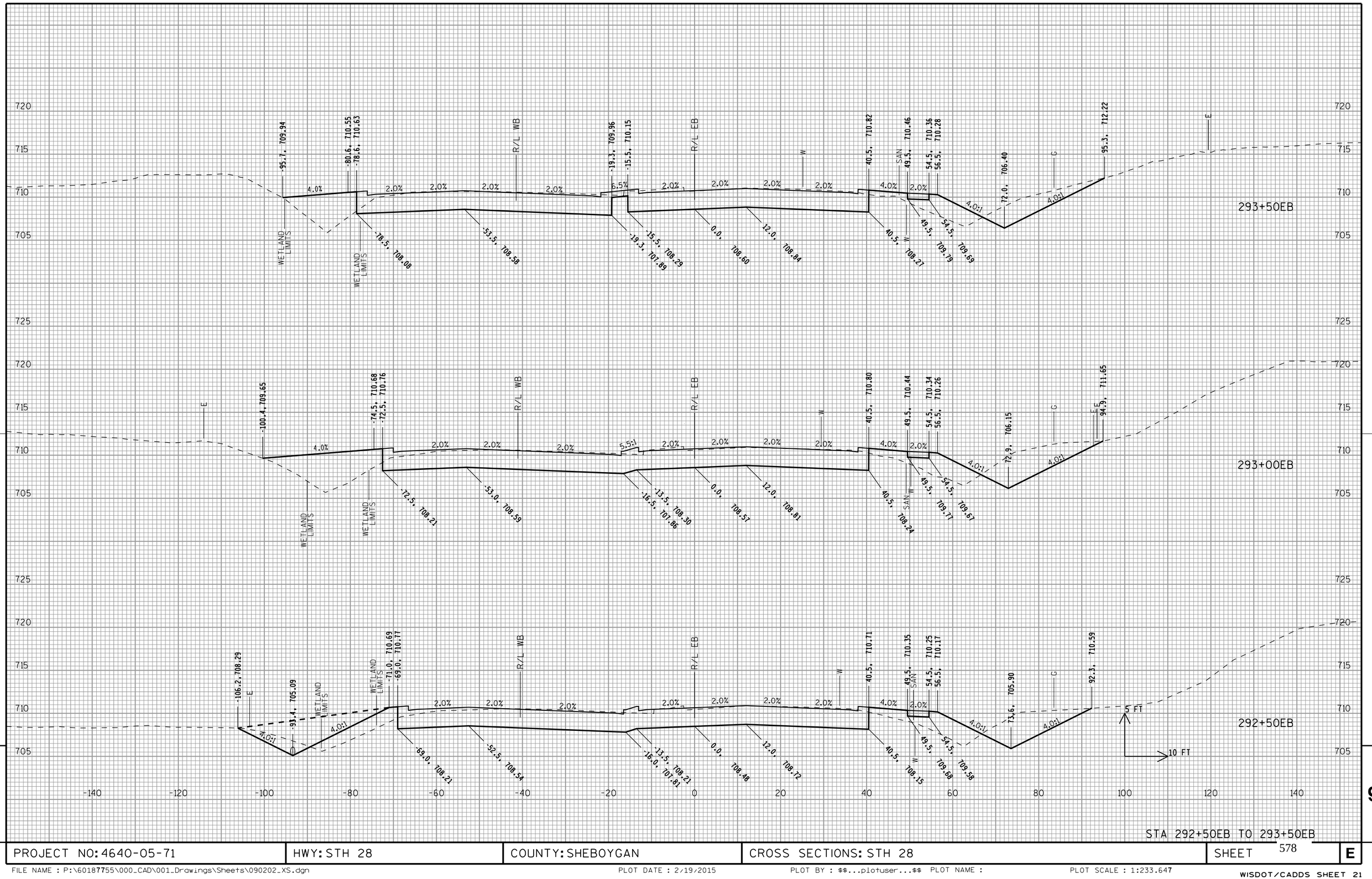
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STA 290+00EB TO 291+00EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 576	E

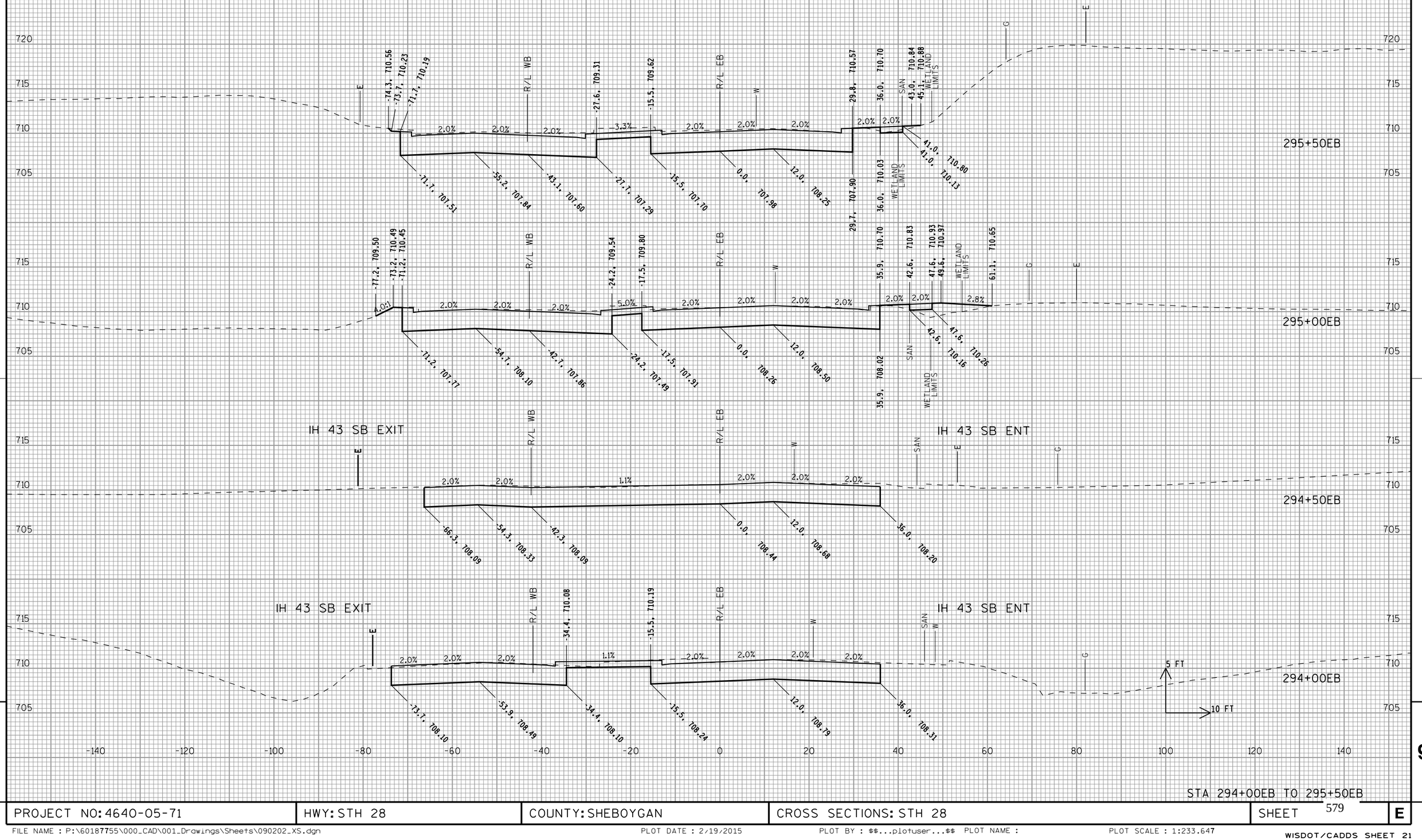


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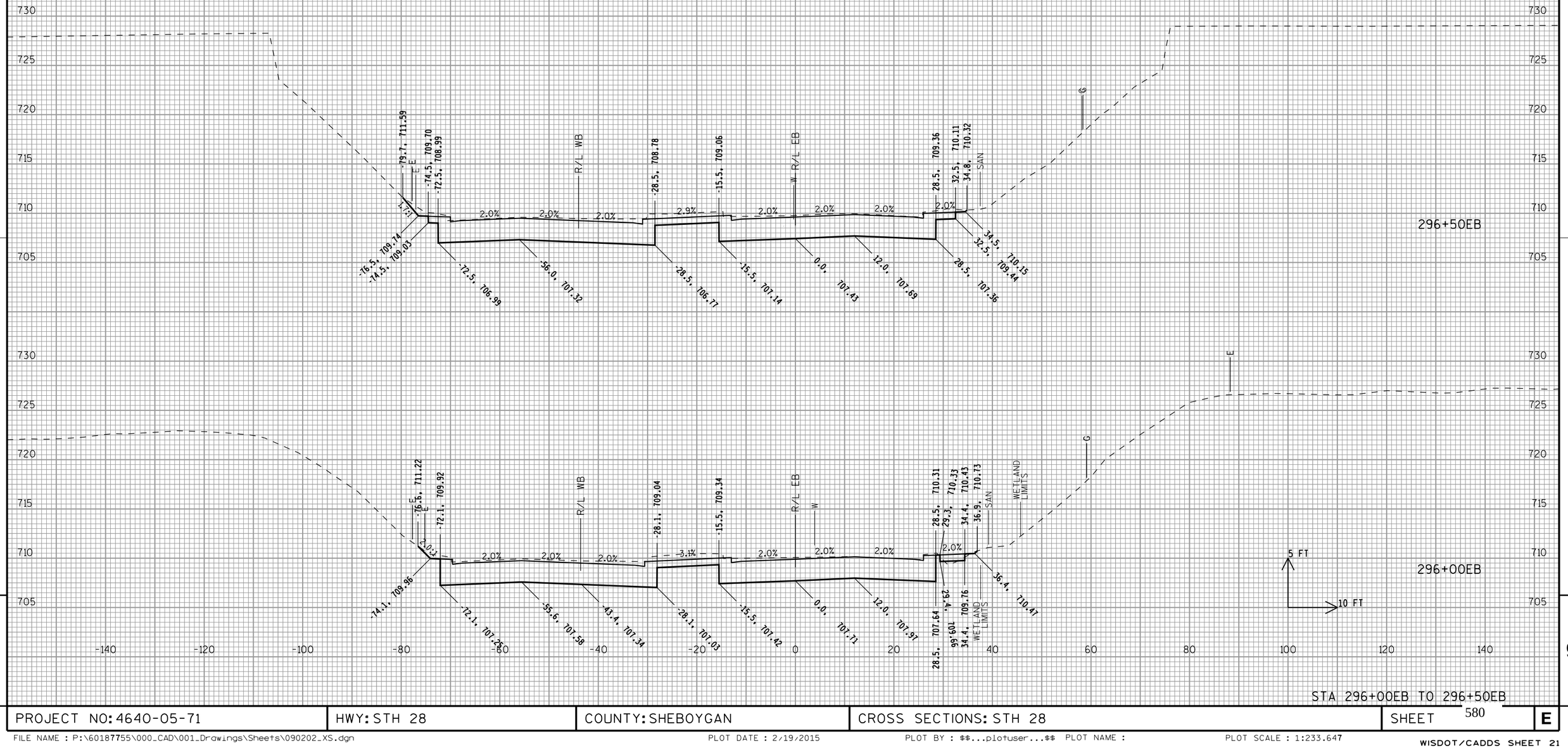
STA 292+50EB TO 293+50EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 578	E



STA 294+00EB TO 295+50EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 579	E

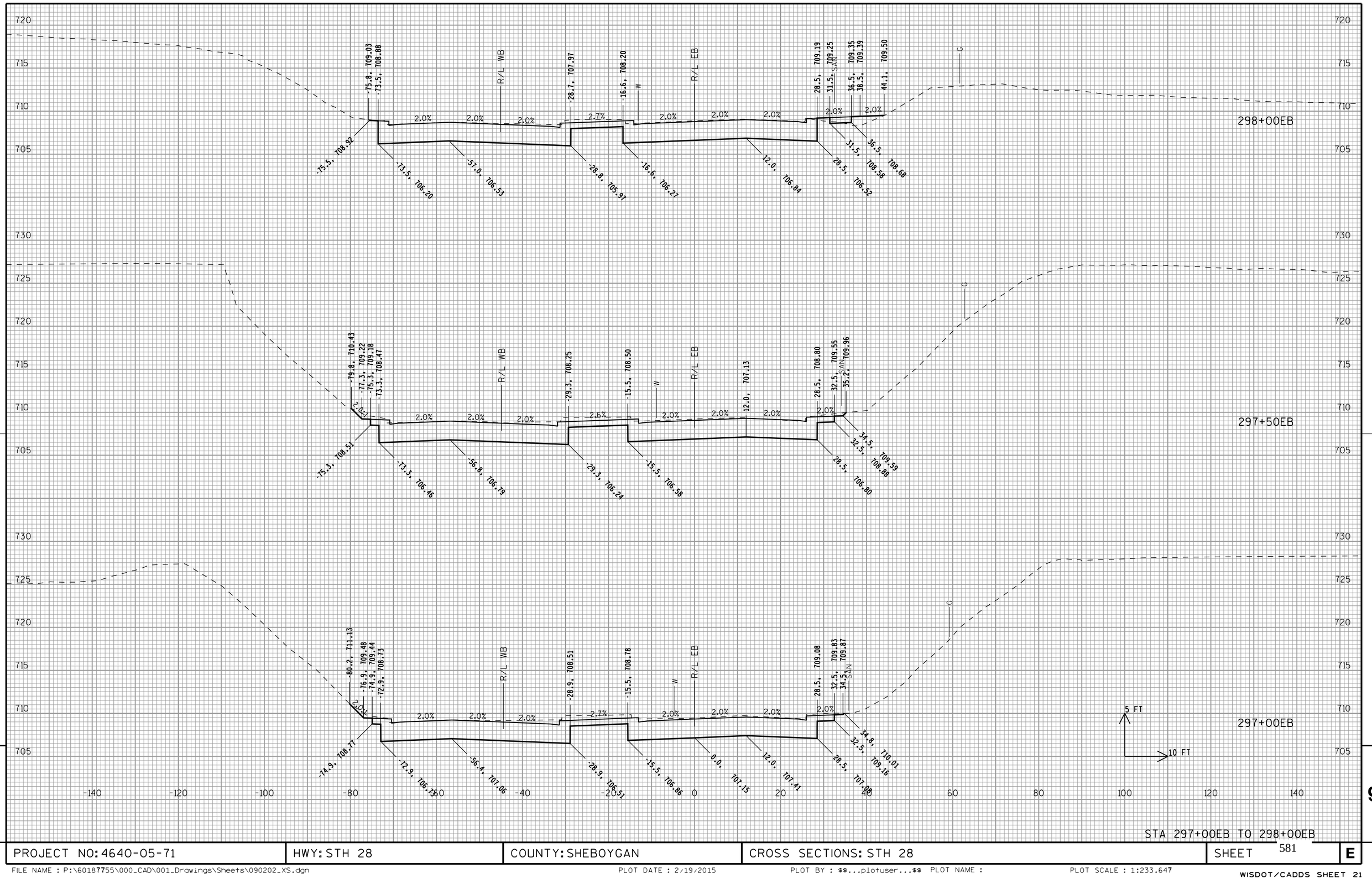


STA 296+00EB TO 296+50EB

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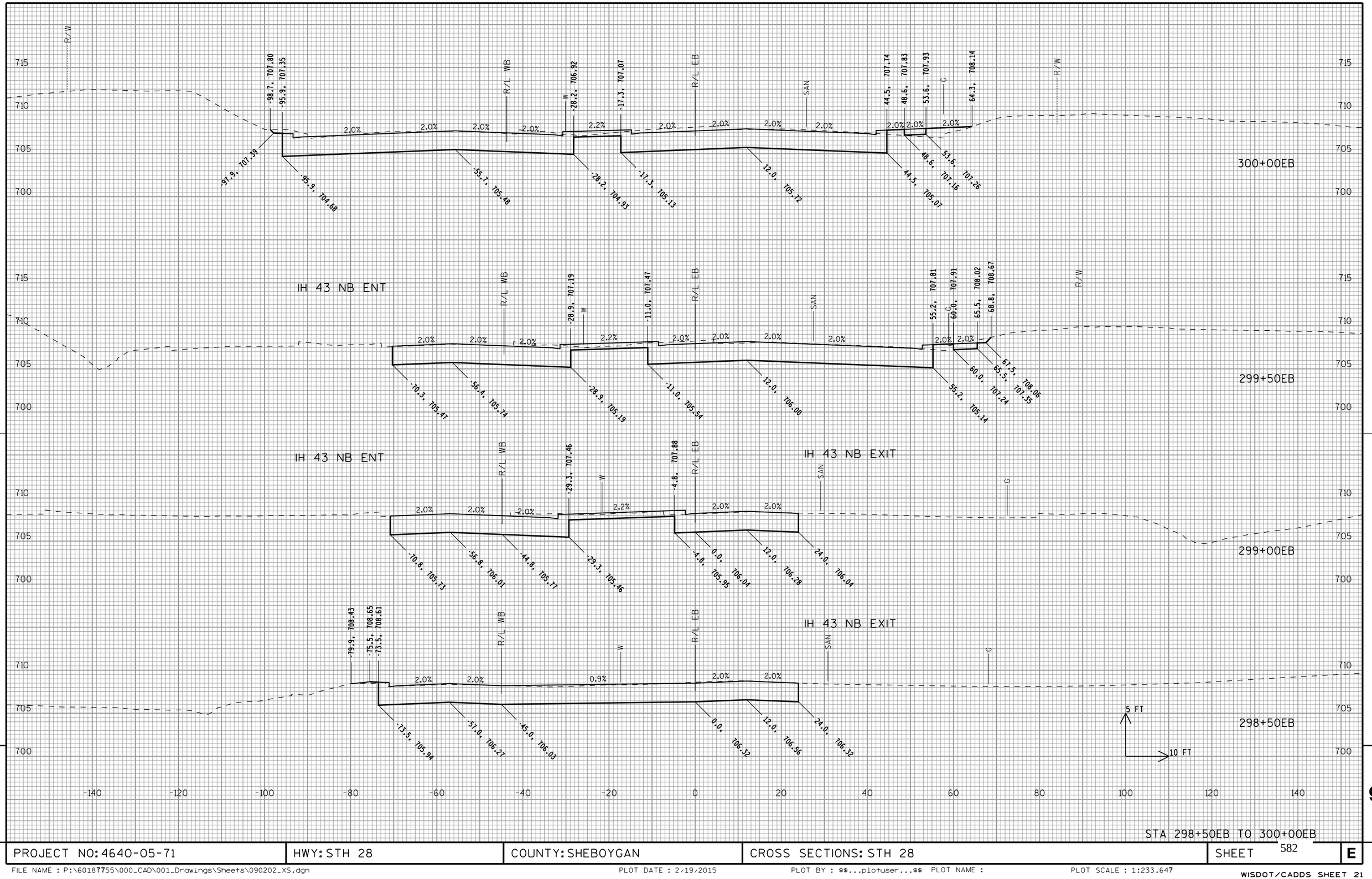
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WISDOT/CADDS SHEET 21



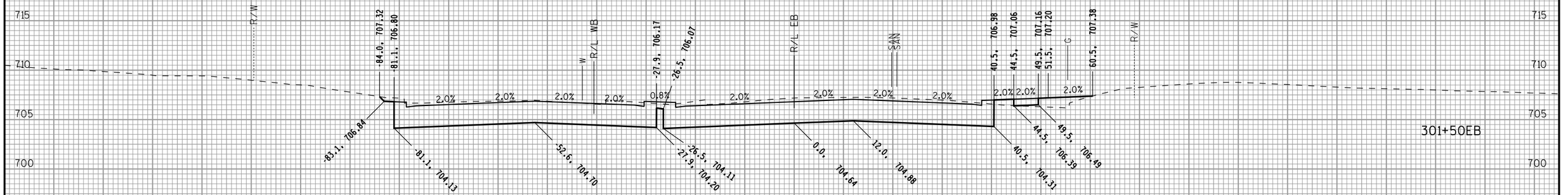
STA 297+00EB TO 298+00EB

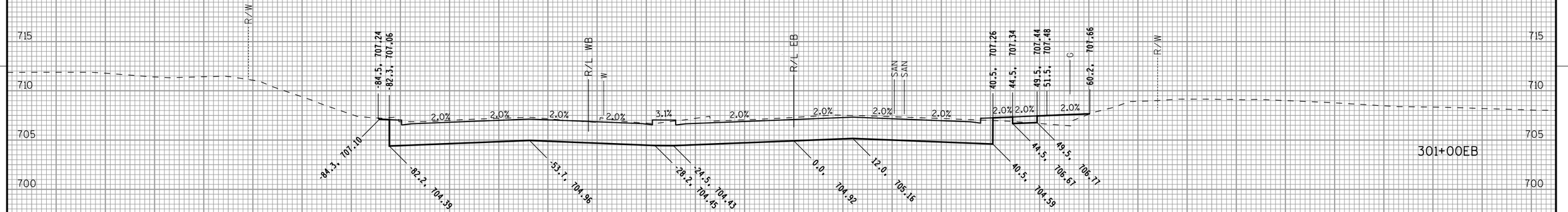
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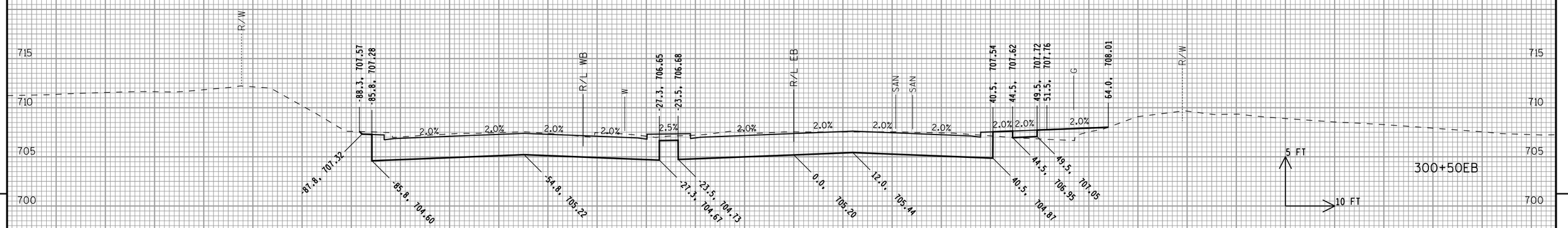


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STA 298+50EB TO 300+00EB



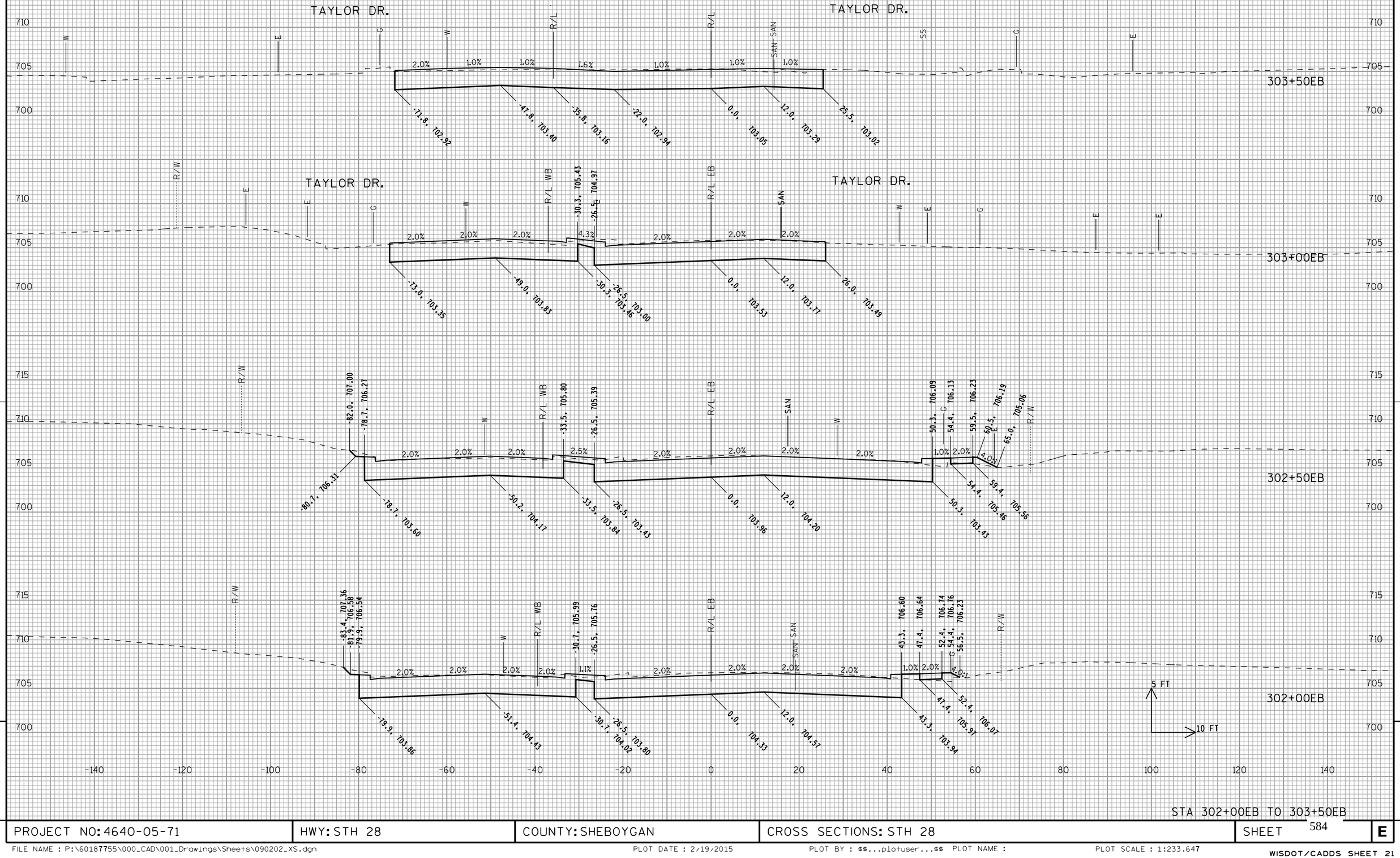




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STA 300+50EB TO 301+50EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 583	E

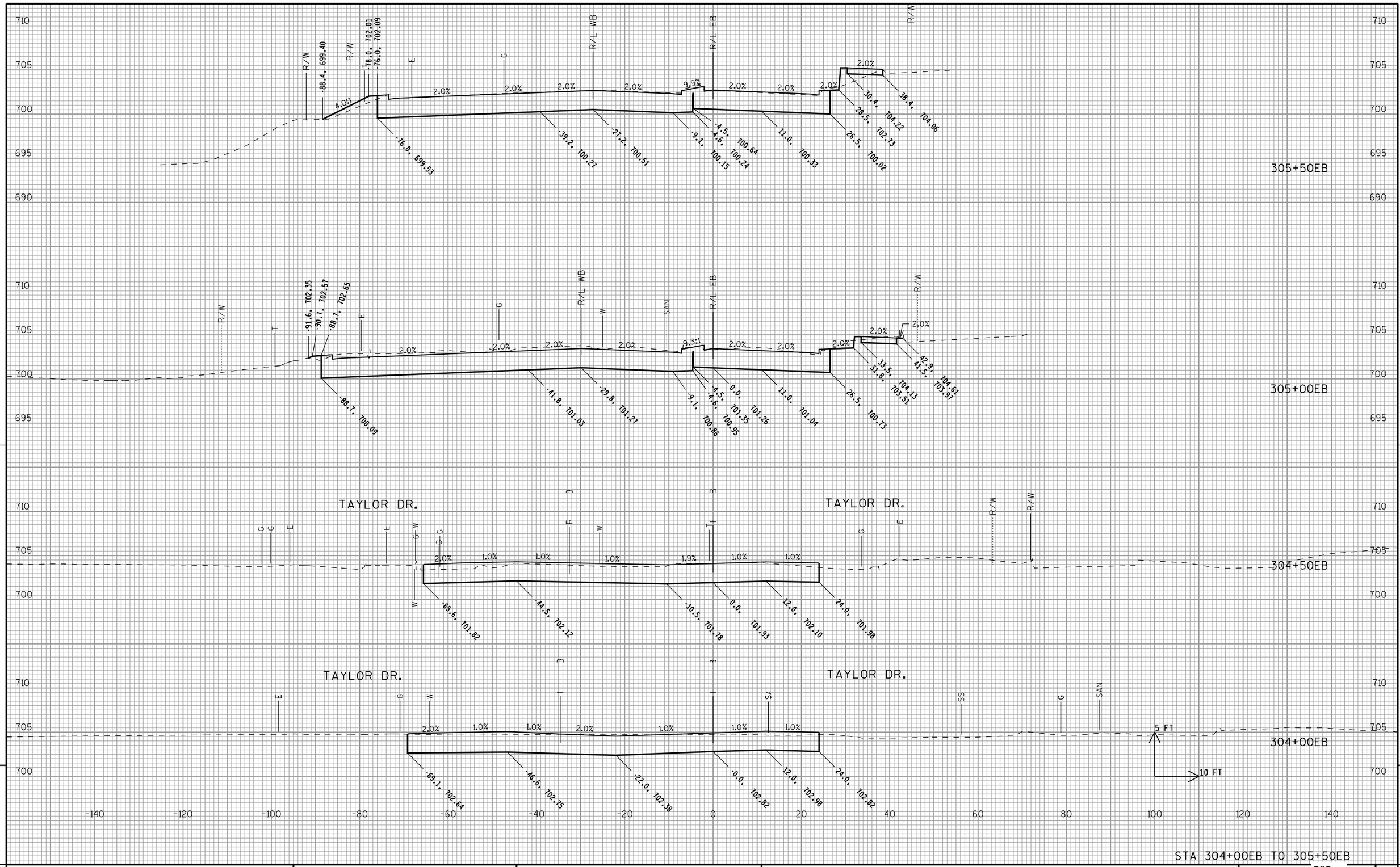


STA 302+00EB TO 303+50EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 584	E

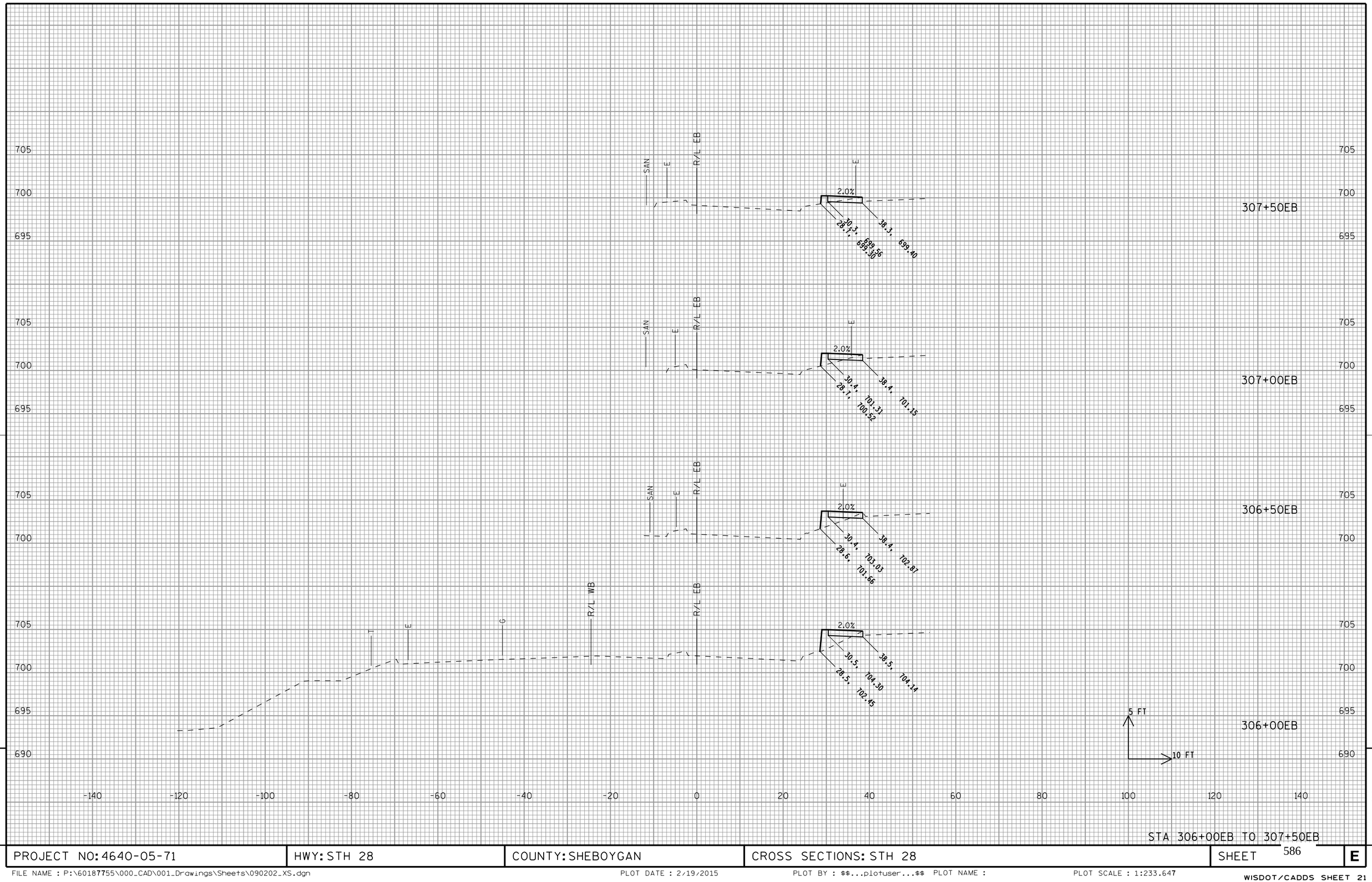
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WISDOT/CADDS SHEET 21



STA 304+00EB TO 305+50EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 585	E

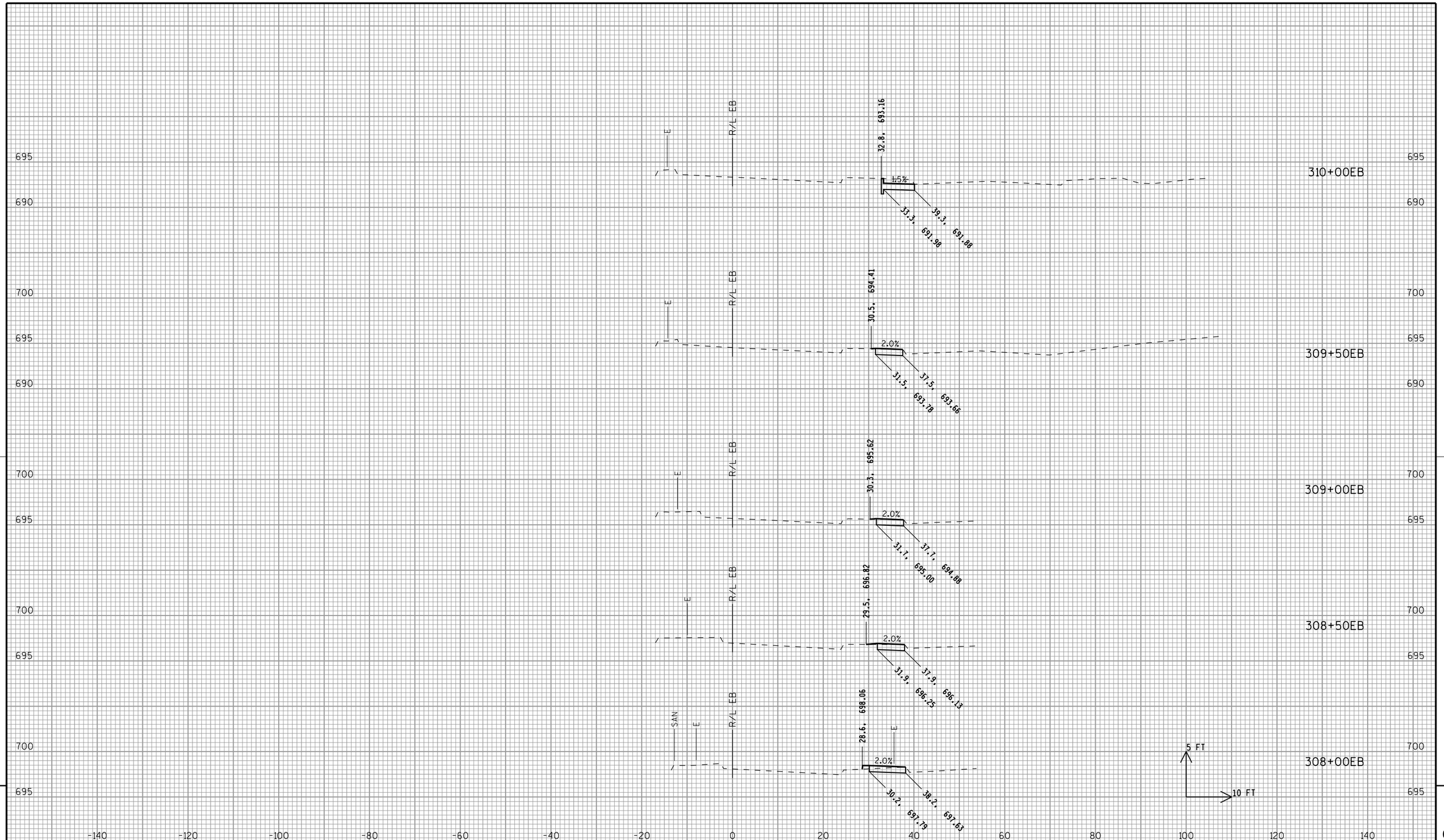


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9

STA 306+00EB TO 307+50EB

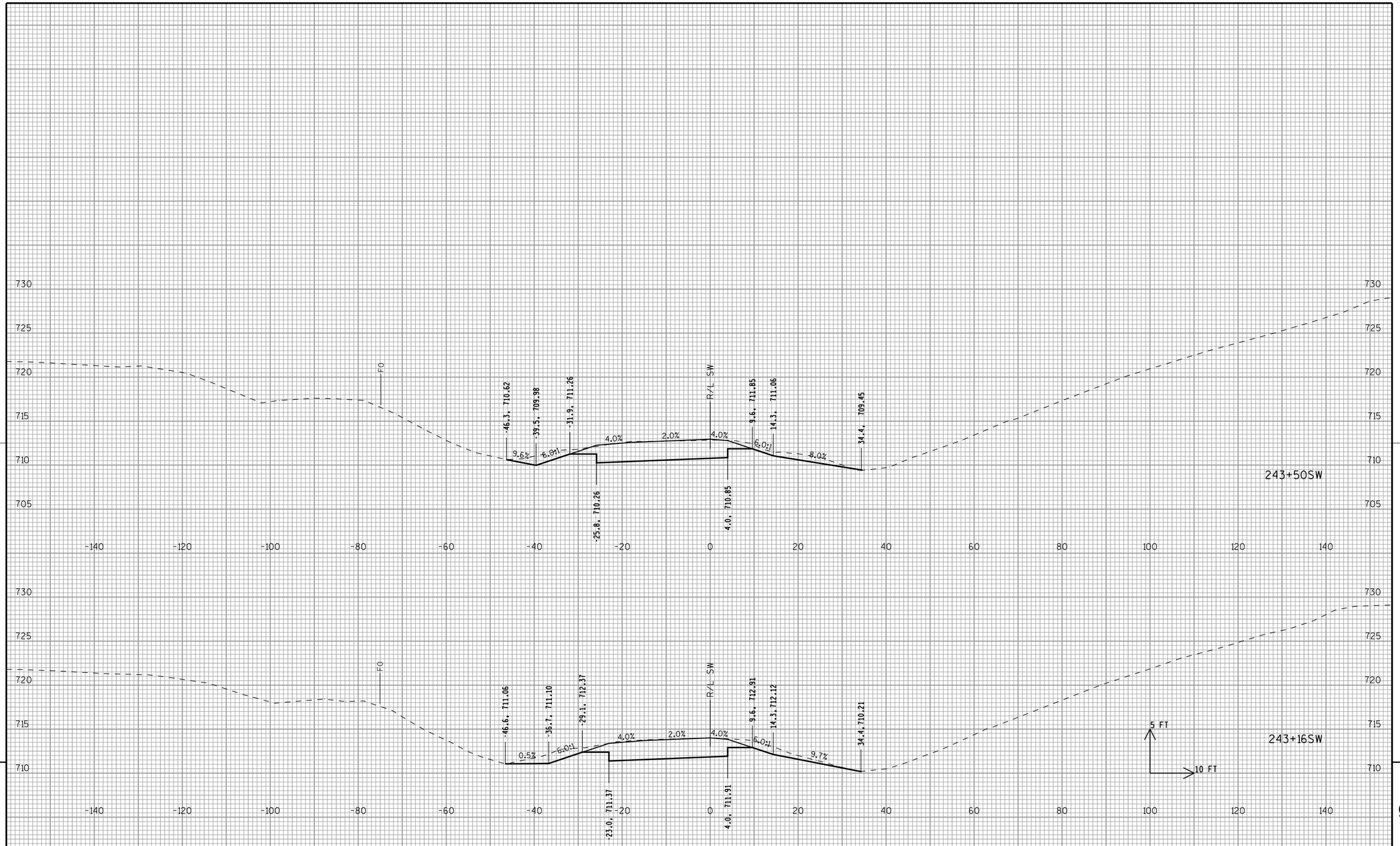
PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 586	E



9

STA 308+00EB TO 310+00EB

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: STH 28	SHEET 587	E



9

STA 243+16SW TO 243+50SW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: SW RAMP (SB ENTRANCE)	SHEET 588	E

STH 28

STH 28

244+89SW

244+50SW

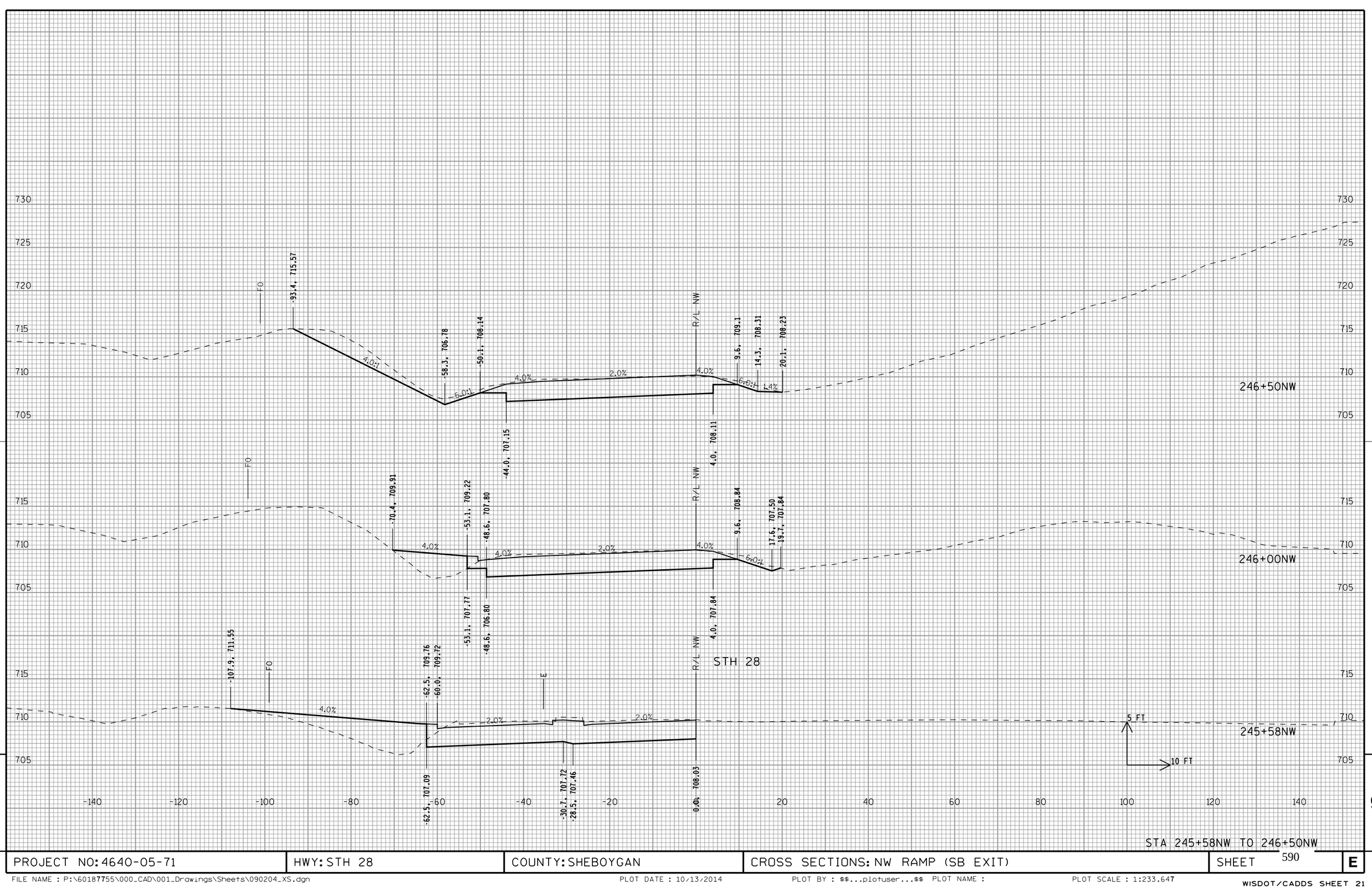
244+00SW

STA 244+00SW TO 244+89SW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: SW RAMP (SB ENTRANCE)	SHEET 589	E

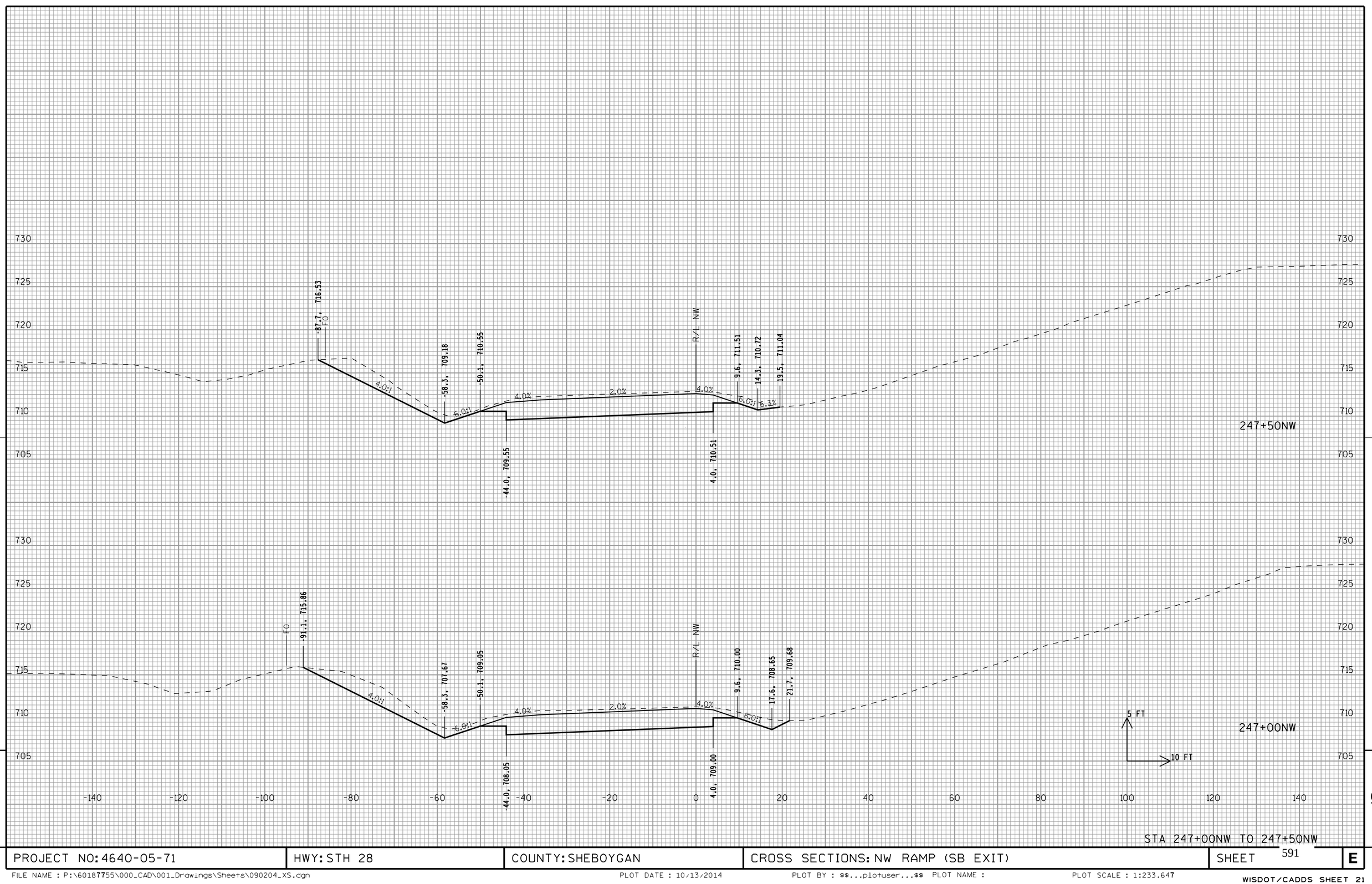
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WISDOT/CADDS SHEET 21



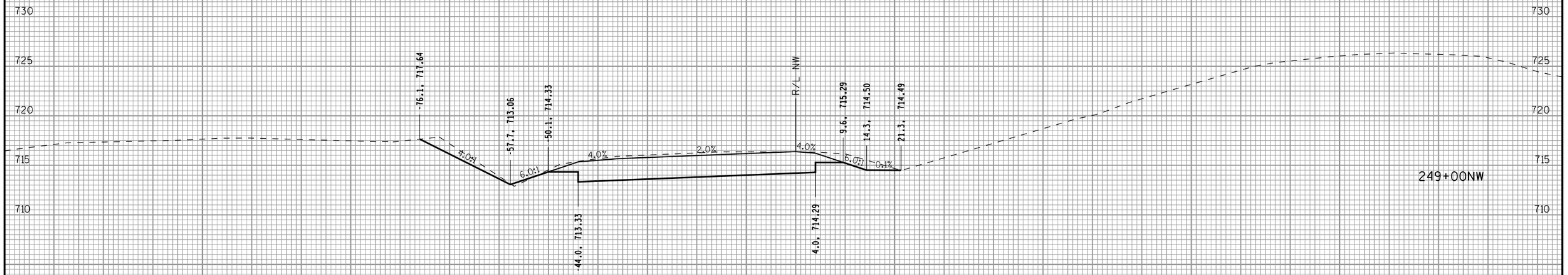
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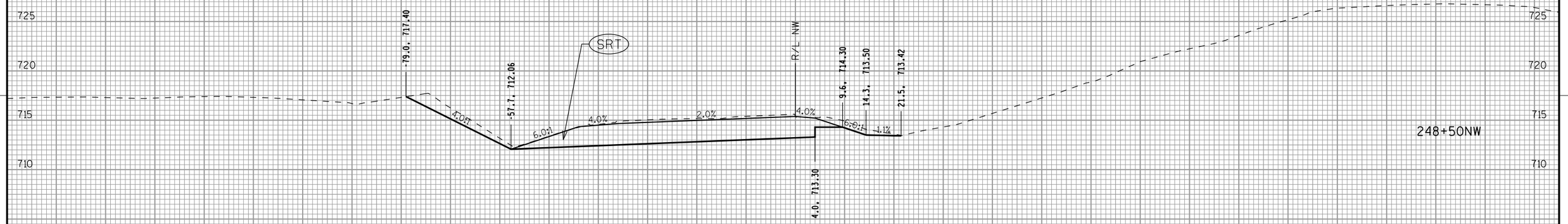
STA 245+58NW TO 246+50NW

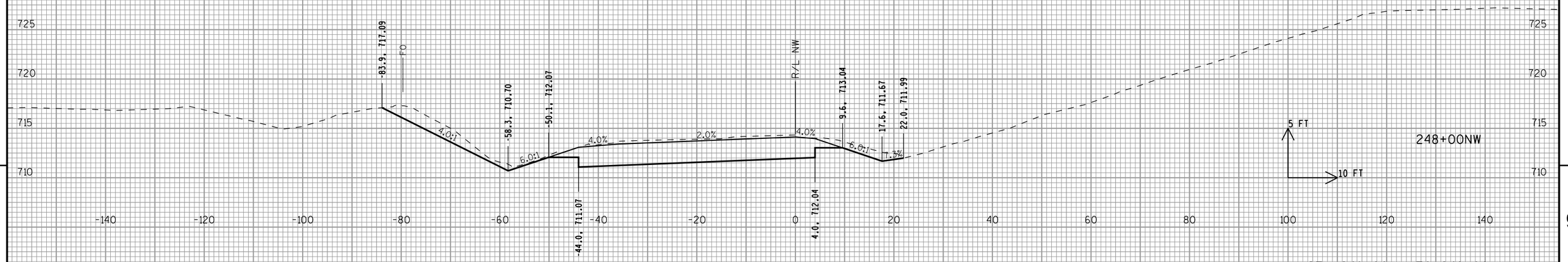


STA 247+00NW TO 247+50NW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: NW RAMP (SB EXIT)	SHEET 591	E







9

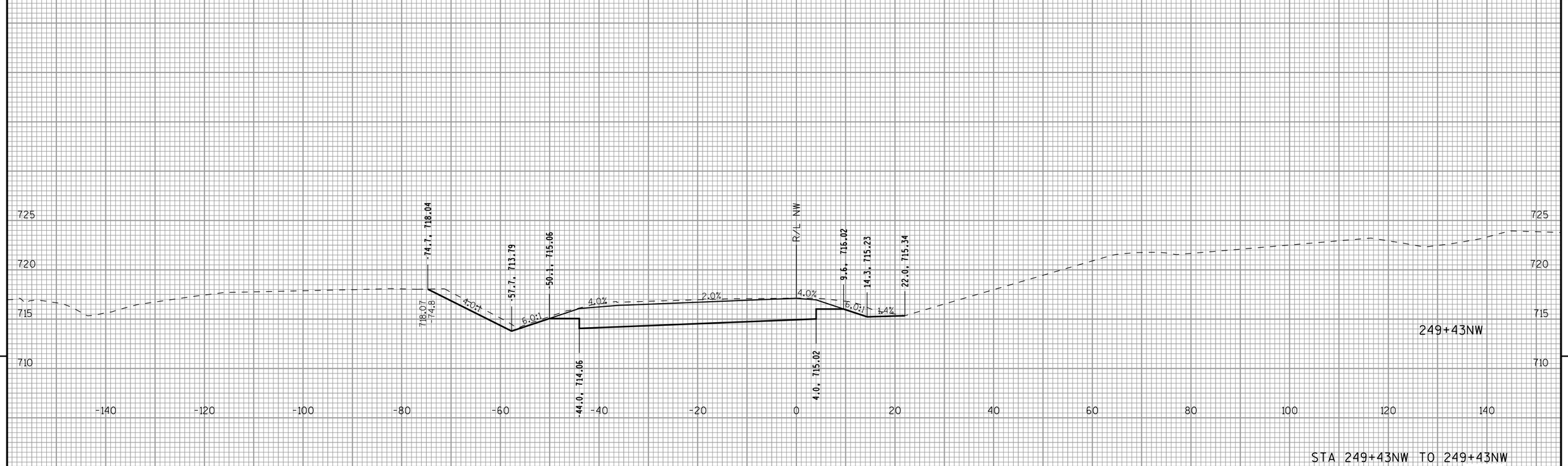
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STA 248+00NW TO 249+00NW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: NW RAMP (SB EXIT)	SHEET 592	E

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WISDOT/CADDS SHEET 21

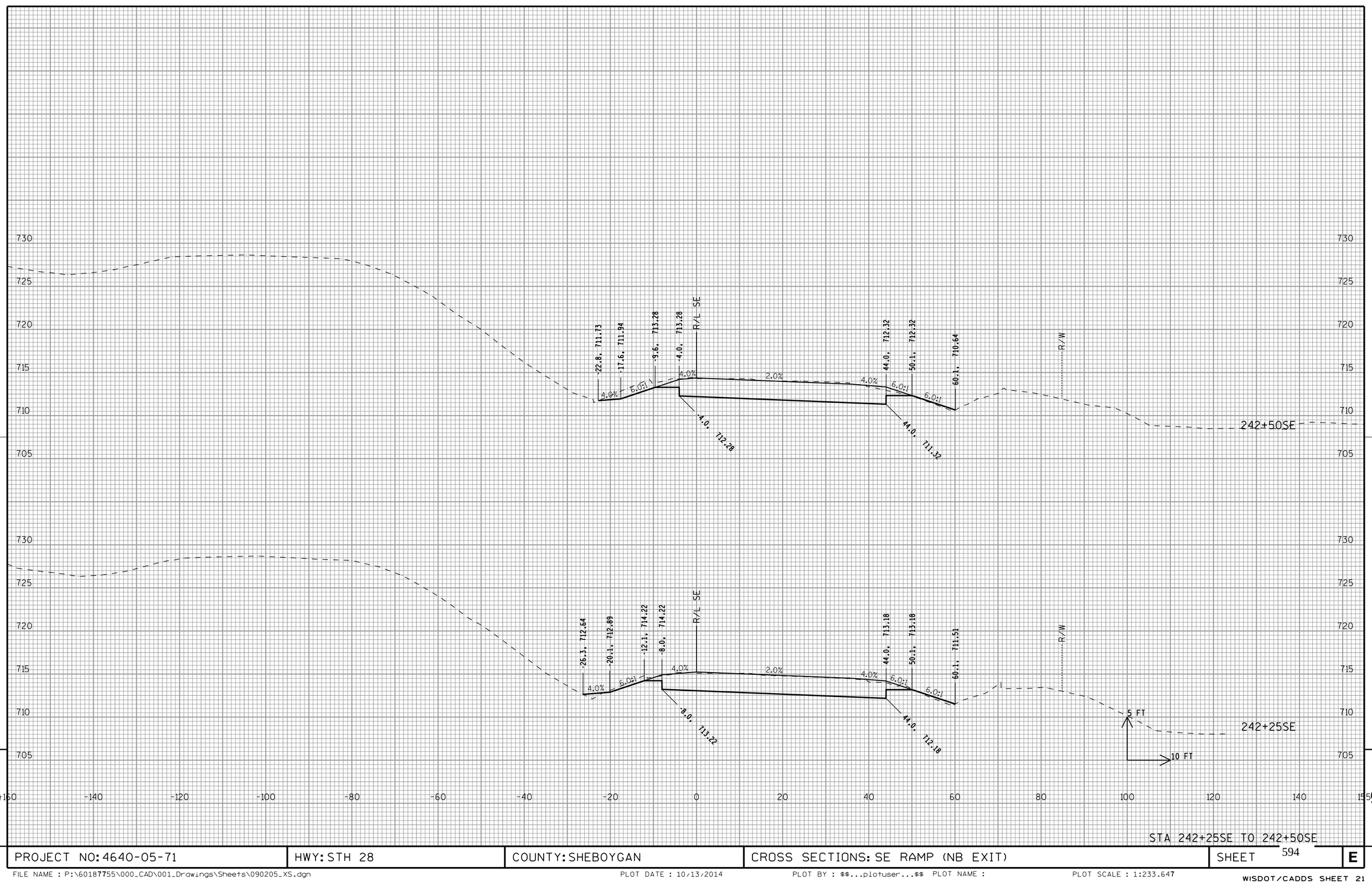


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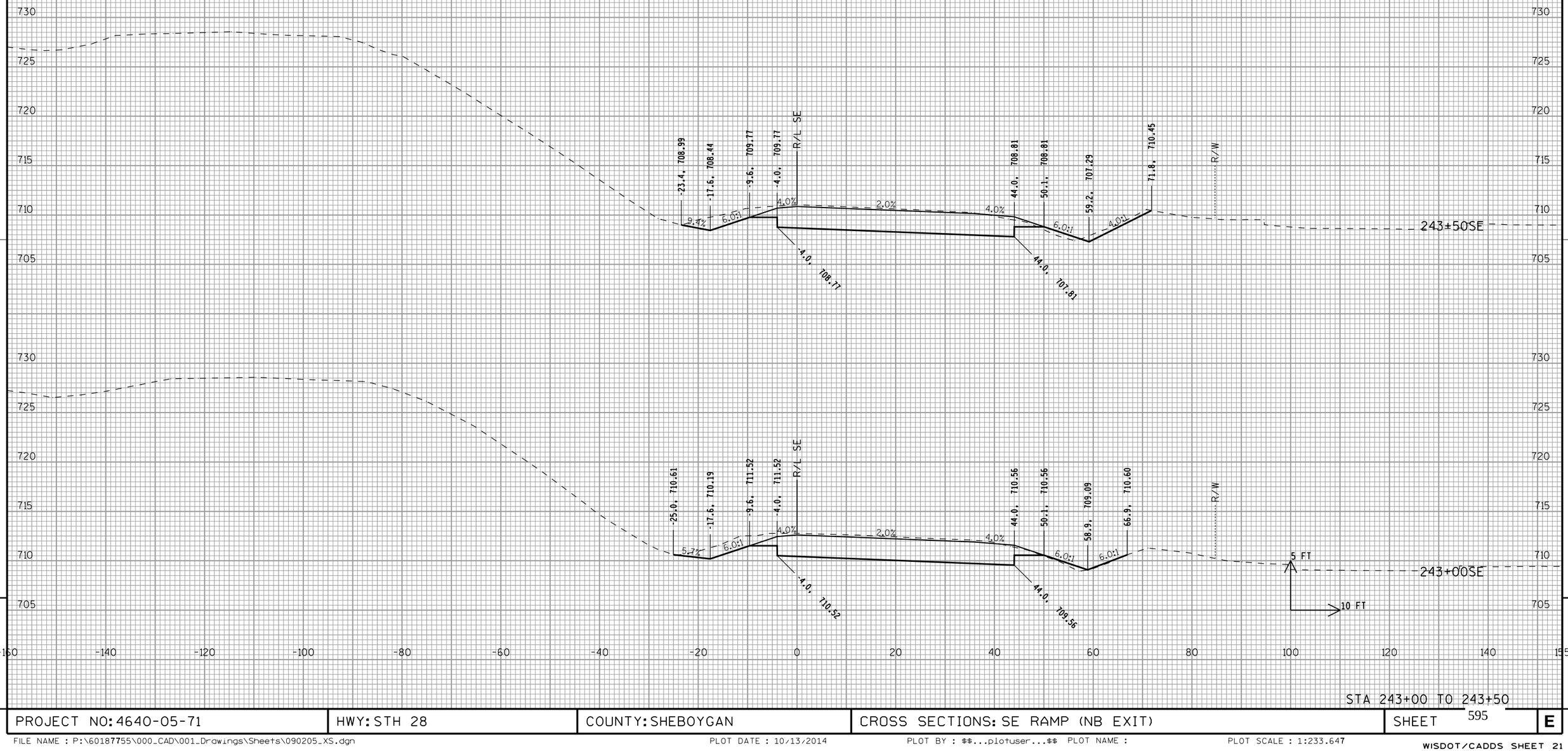
STA 249+43NW TO 249+43NW

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: NW RAMP (SB EXIT)	SHEET 593	E



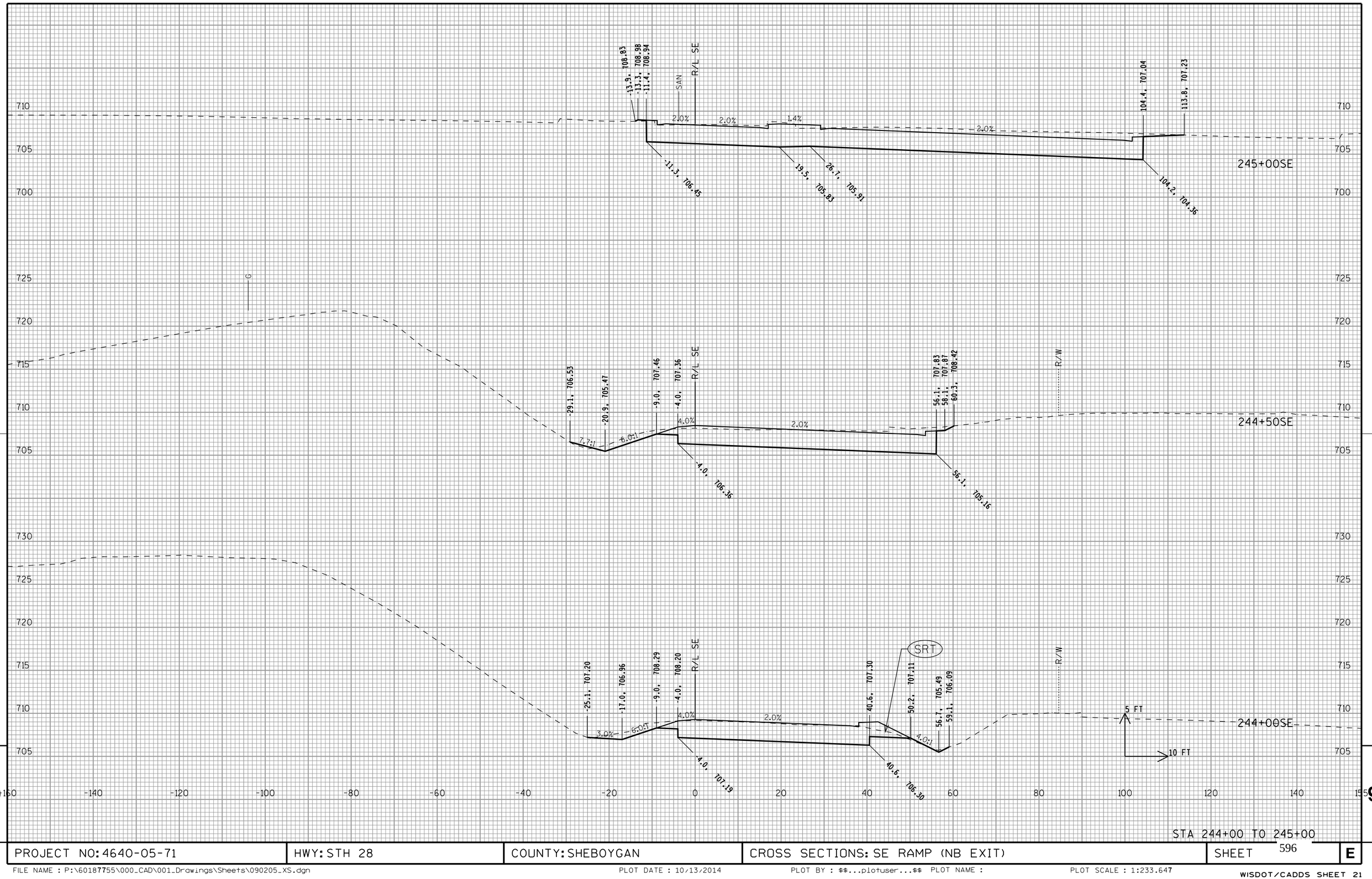
STA 242+25SE TO 242+50SE

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: SE RAMP (NB EXIT)	SHEET 594	E



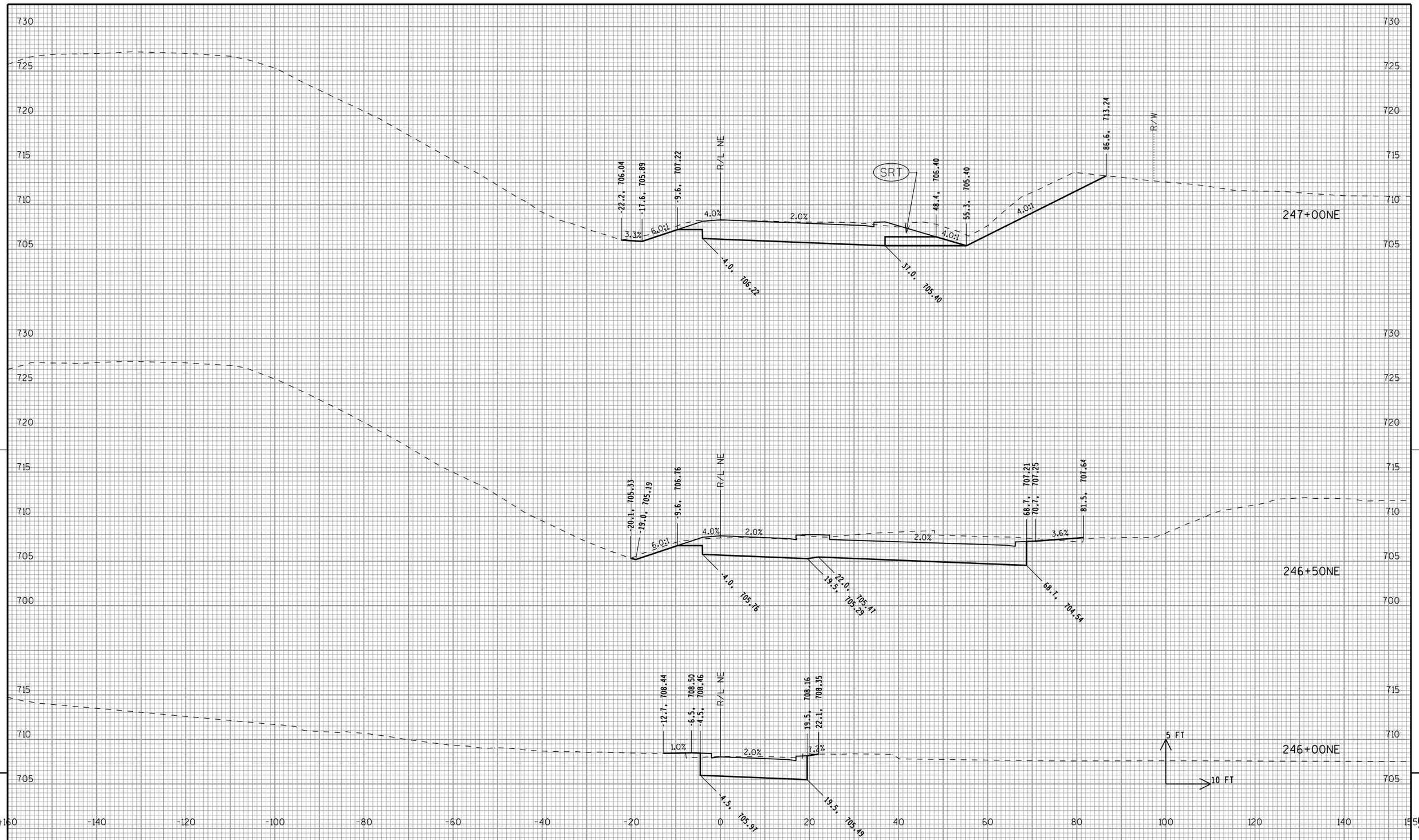
STA 243+00 TO 243+50

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: SE RAMP (NB EXIT)	SHEET 595	E



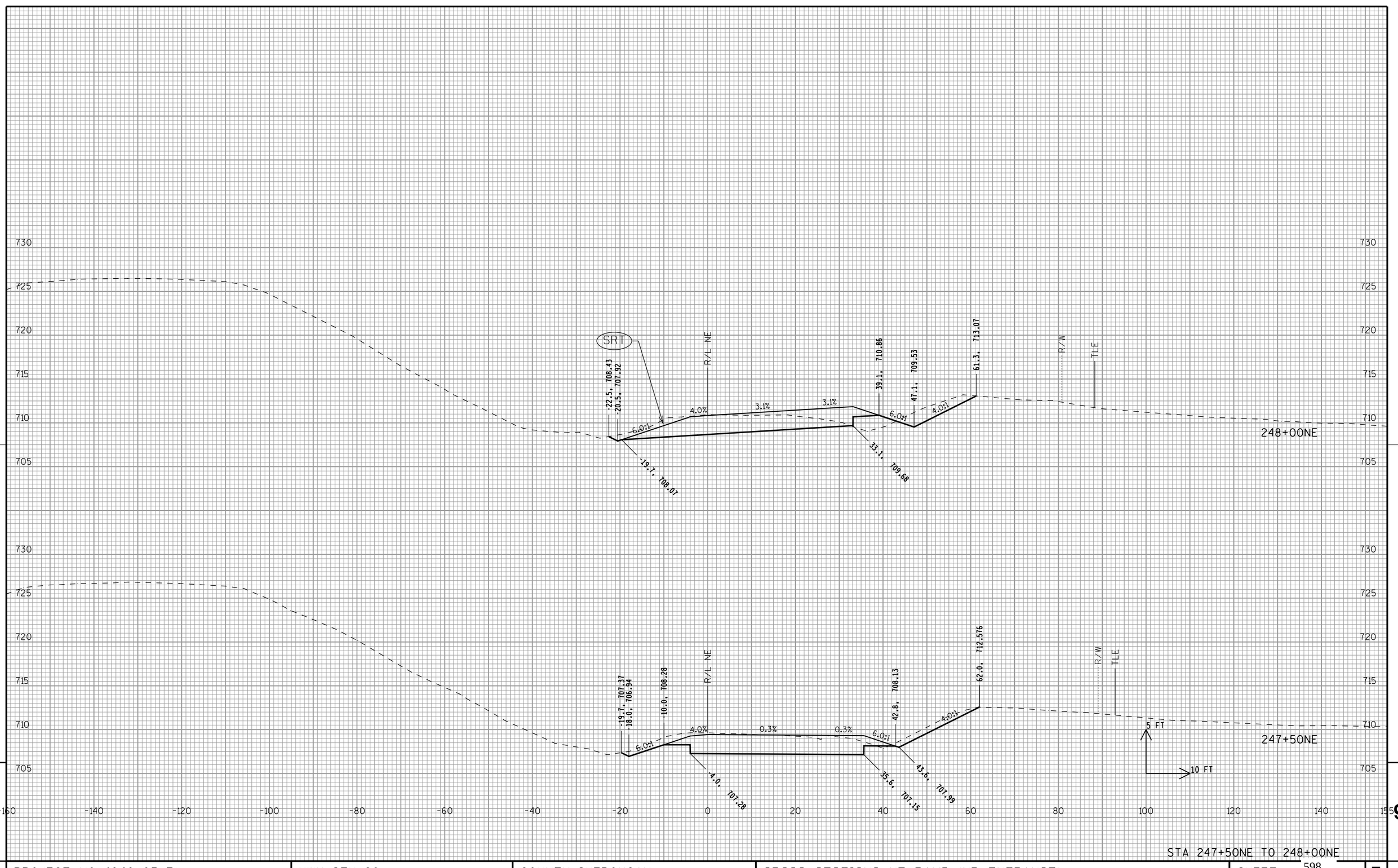
STA 244+00 TO 245+00

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: SE RAMP (NB EXIT)	SHEET 596	E



STA 246+00NE TO 247+00NE

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: NE RAMP (NB ENTRANCE)	SHEET 597	E

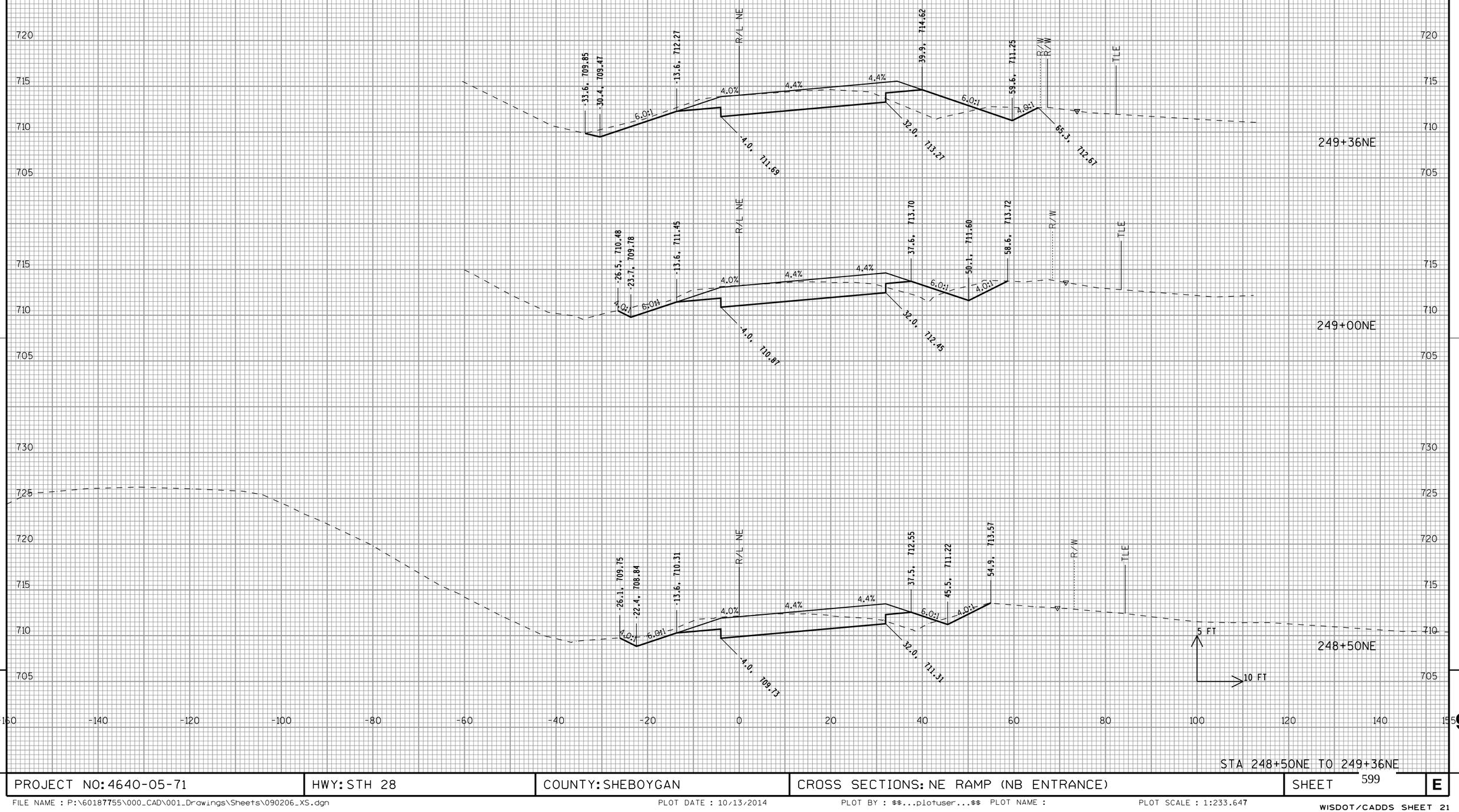


STA 247+50NE TO 248+00NE

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: NE RAMP (NB ENTRANCE)	SHEET 598	E

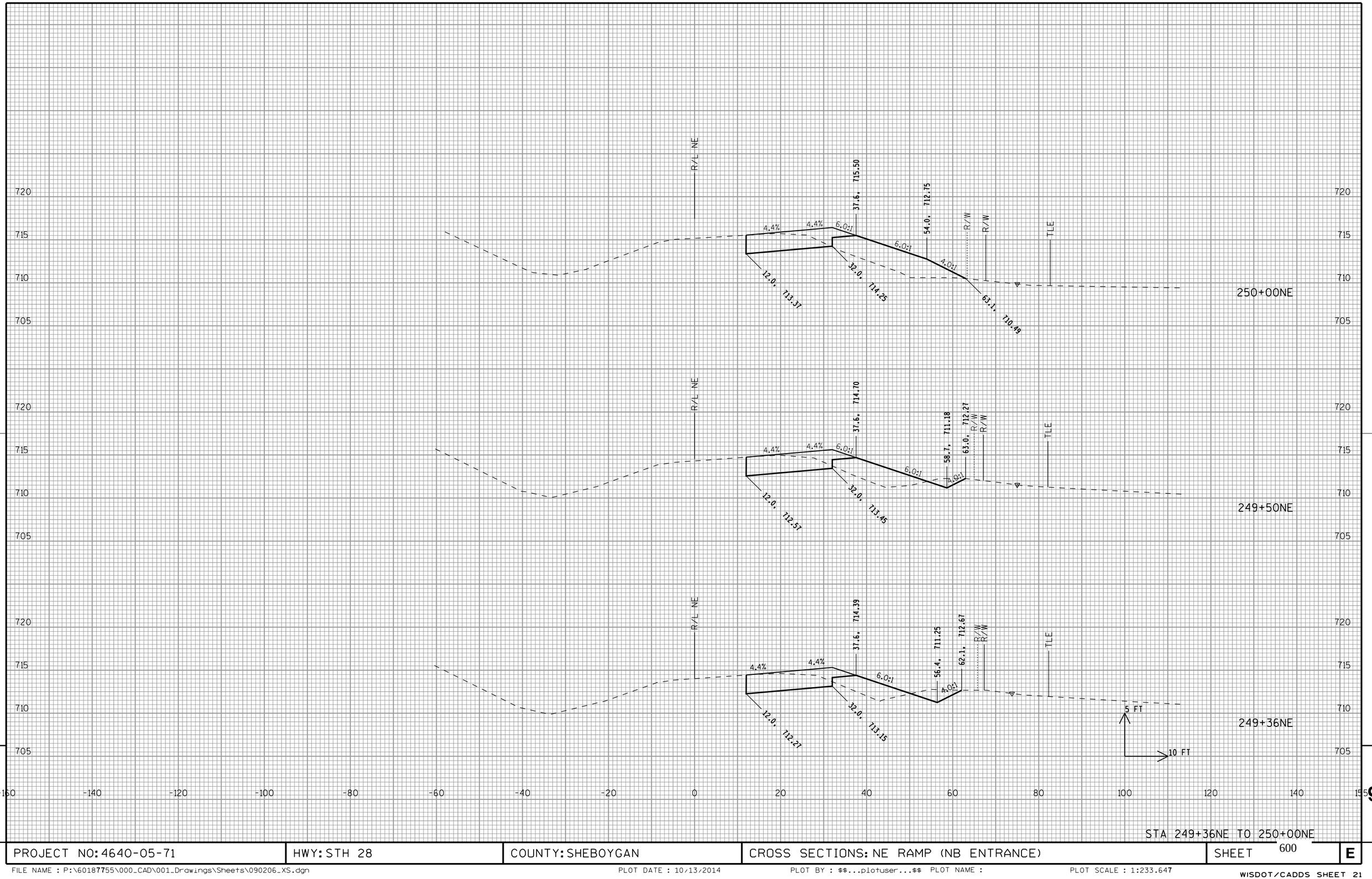
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WISDOT/CADDS SHEET 21



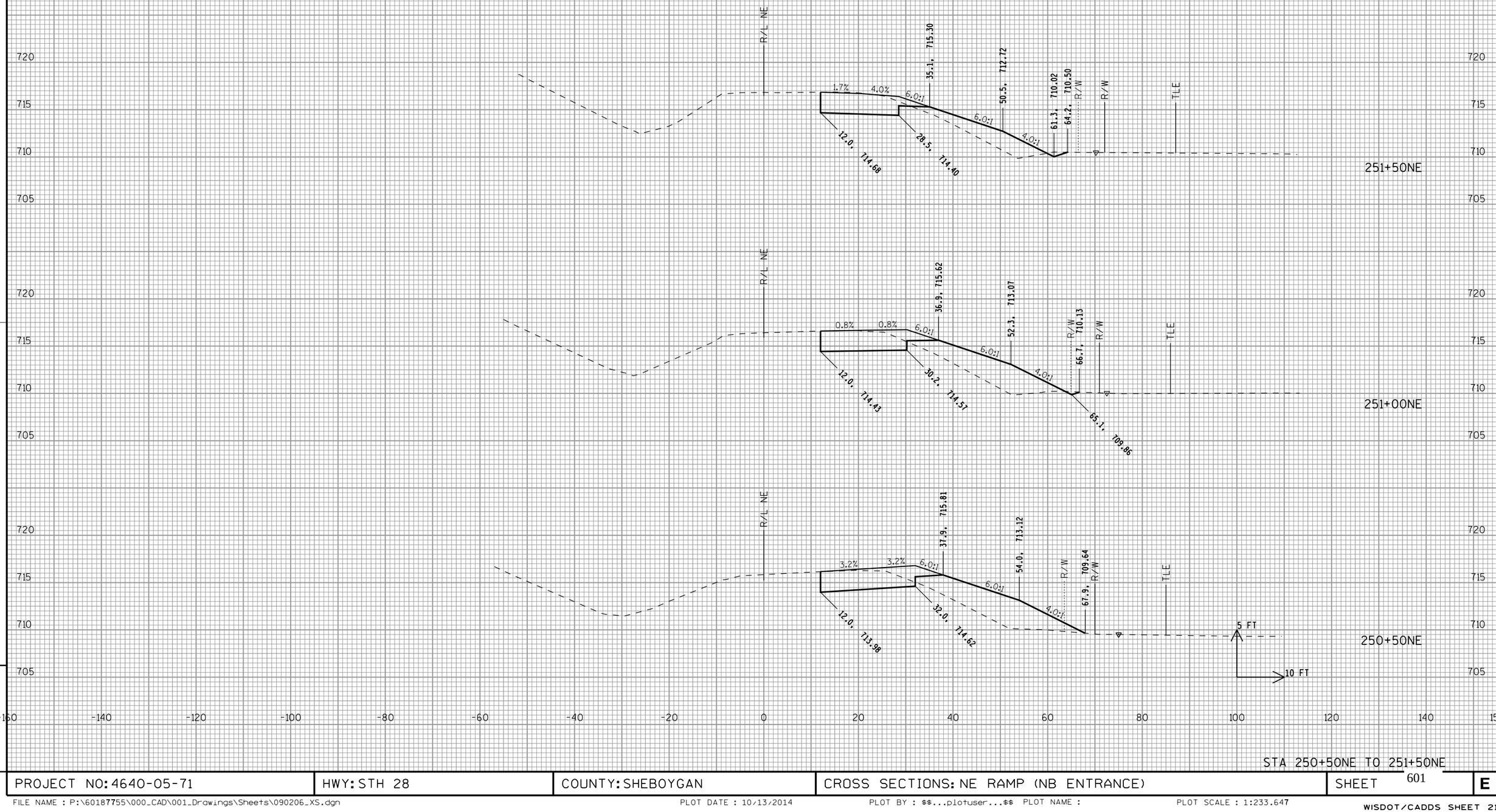
STA 248+50NE TO 249+36NE

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: NE RAMP (NB ENTRANCE)	SHEET 599	E



STA 249+36NE TO 250+00NE

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: NE RAMP (NB ENTRANCE)	SHEET 600	E

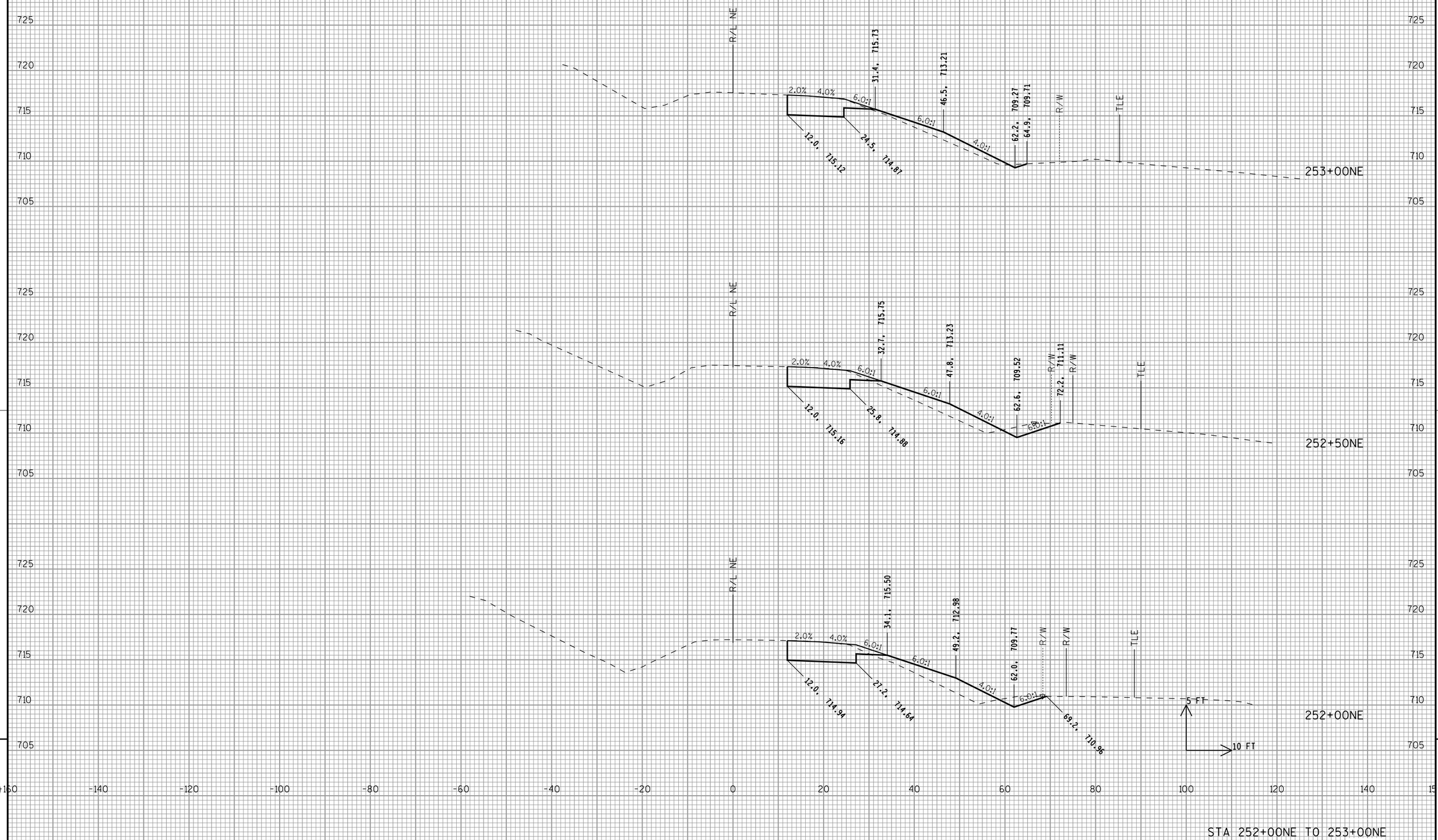


STA 250+50NE TO 251+50NE

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: NE RAMP (NB ENTRANCE)	SHEET 601	E

FILE NAME : P:\60187755\000_CAD\001_Drawings\Sheets\090206_XS.dgn PLOT DATE : 10/13/2014 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 1:233.647

WISDOT/CADDS SHEET 21

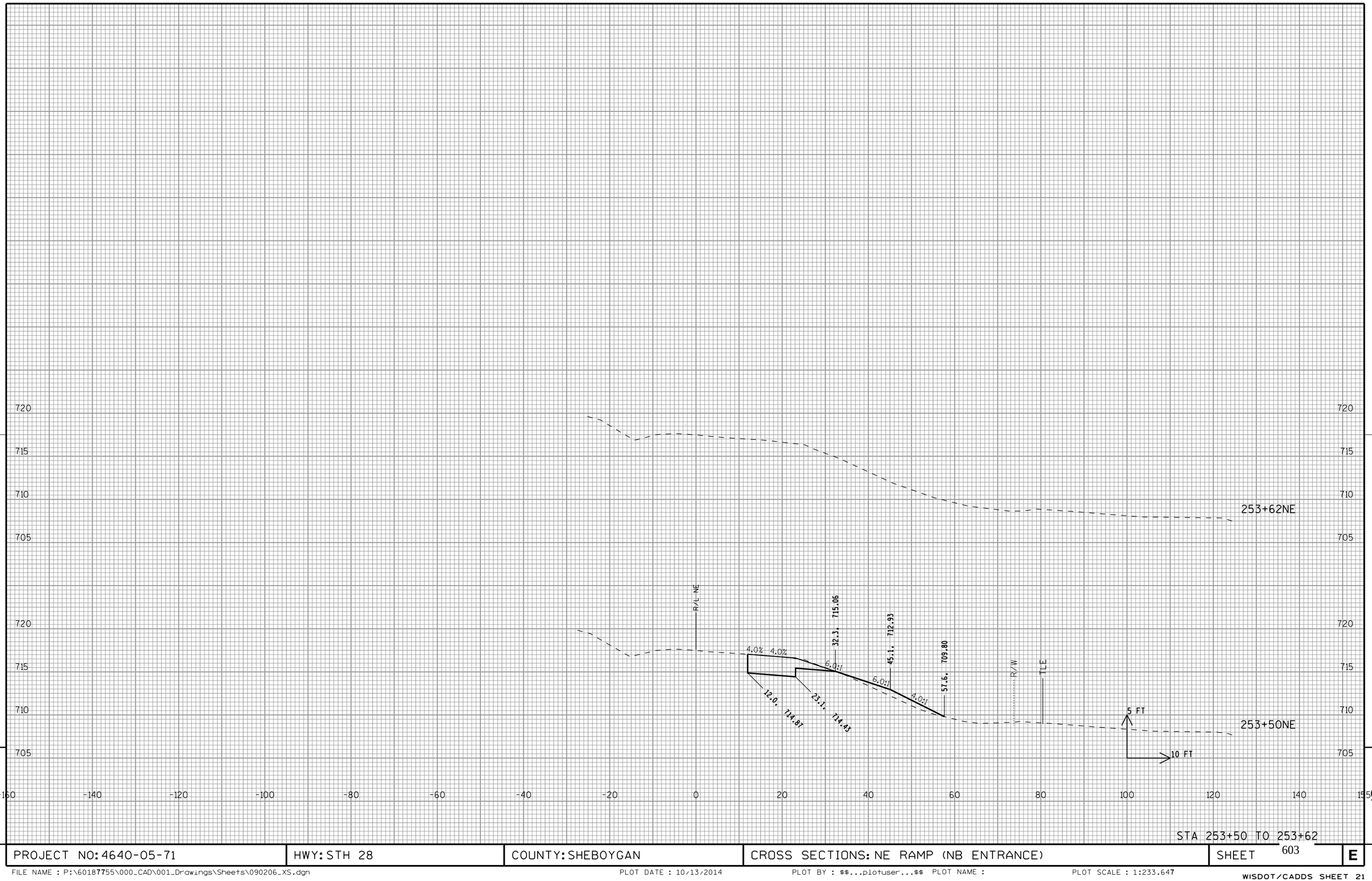


STA 252+00NE TO 253+00NE

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: NE RAMP (NB ENTRANCE)	SHEET 602	E

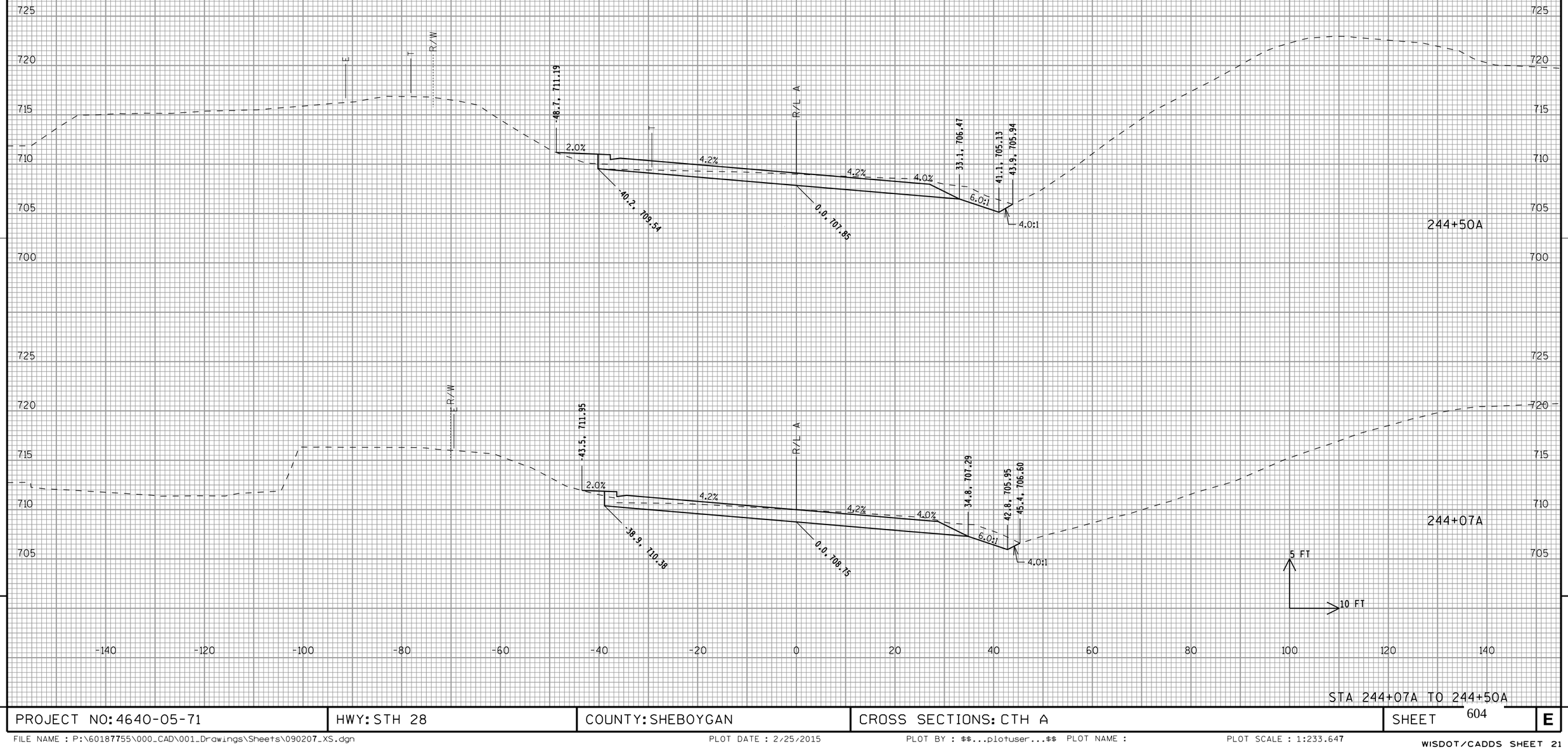
FILE NAME : P:\60187755\000_CAD\001_Drawings\Sheets\090206_XS.dgn PLOT DATE : 10/13/2014 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 1:233.647

WISDOT/CADDS SHEET 21



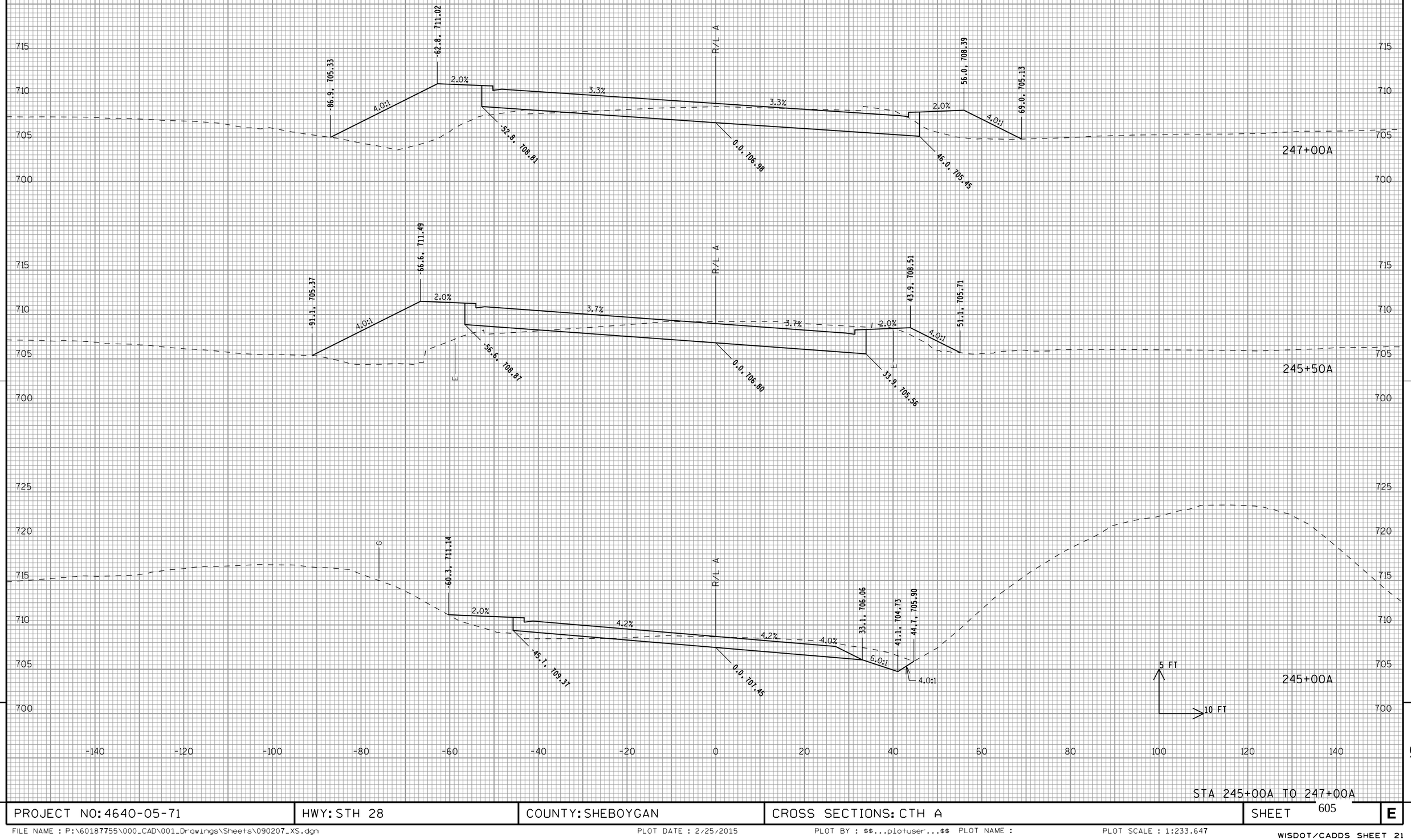
STA 253+50 TO 253+62

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: NE RAMP (NB ENTRANCE)	SHEET 603	E



STA 244+07A TO 244+50A

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH A	SHEET 604	E



STA 245+00A TO 247+00A

PROJECT NO: 4640-05-71	HWY: STH 28	COUNTY: SHEBOYGAN	CROSS SECTIONS: CTH A	SHEET 605	E

Wisconsin Department of Transportation

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